

APPENDIX A
ECOTOX Coding, Data, and Citations

CAS # Chemical

Arsenic 1303282 arsenic pentoxide
1303339 arsenic trisulfide (As₂S₃)
1327533 arsenic oxide
7631892 arsenic acid, sodium salt
7778394 arsenic acid (H₃AsO₄)
7778430 arsenic acid, disodium salt
7784341 arsenous trichloride
7784465 arsenenous acid, sodium salt
13464374 arsenous acid, trisodium salt
13464385 arsenic acid, trisodium salt
15502746 arsenite (AsO₃)

Cadmium 543908 cadmium acetate
7440439 cadmium
10108642 cadmium chloride
10124364 cadmium sulfate
10325947 cadmium nitrate

Chromium 1333820 chromium oxide
7440473 chromium
7775113 chromic acid, disodium salt
7778509 chromic acid dipotassium salt
7789006 chromic acid, dipotassium salt
10141001 sulfuric acid, chromium (3+)potassium salt (2:1:1)

10588019 sodium dichromate
12680487 sodium chromate
13548384 nitric acid, chromium(3+) salt

Copper 142712 acetic acid, copper(2+) salt
1317380 cupric oxide
1332407 copper chloride mixt. with copper oxide (cuo), hydrate
1344678 copper chloride
3251238 cupric nitrate
4180125 acetic acid, copper salt

	CAS #	Chemical
Copper (cont'd)	7440508	copper
	7447394	cupric chloride
	7758987	sulfuric acid, copper(2+) salt(1:1)
	7758998	sulfuric acid copper (2+) salt (1:1), pentahydrate
Lead	301042	acetic acid, lead(2+) salt
	7439921	lead
	7758954	lead chloride
	10099748	nitric acid, lead (2+) salt
	13826658	nitrous acid, lead (2+) salt
Mercury	1600277	mercuric acetate
	7439976	mercury
	7487947	mercuric chloride
	7783359	sulfuric acid, mercury(2+) salt(1:1)
	10045940	mercuric nitrate
Nickel	7440020	nickel
	7718549	nickelous chloride
	7786814	sulfuric acid, nickel(2+)salt (1:1)
	13138459	nickelous nitrate
Selenium	7446084	selenium dioxide
	7782492	selenium
	10102188	selenious acid, disodium salt
	13410010	selenic acid, disodium salt
	14124686	selenate
Zinc	557346	zinc acetate
	7440666	zinc
	7646857	zinc chloride
	7733020	sulfuric acid, zinc salt (1:1)
	7779886	zinc nitrate
	7779900	zinc phosphate

EFFECT CODE	DEFINITION
AVO	Avoidance
BCM	Biochemical
BEH	Behavioral
CEL	Cellular
DVP	Developmental
EC50	Concentration at 50% response
ENZ	Enzyme
ET50	Time to 50% response
FDB	Feeding Behavior
GEN	General
GRO	Growth
HIS	Histopathology
HRM	Hormone
IC50	Concentration at 50% inhibition
IMM	Immune
ITX	Intoxication
LC0	Concentration at 0% lethality
LC100	Concentration at 100% lethality
LETC	Lethal threshold concentration
LOEC	Lowest observed effect concentration
LT50	Time to 50% lethality
MATC	Maximum acceptable toxicant concentration (geometric mean of LOEC and NOEC)
MOR	Mortality
NOC	No group code
NOEC	No observed effect concentration
NOSIG	No significant response
NoTrnd	No trend in response
NR - LETH	100% mortality - no statistics used
PHY	Physiological
POP	Population
REP	Reproduction
NR - ZERO	100% survival – no statistics used

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
1	Arthropods exposed to arsenic at <15degC over 1-3 days exposure												
1	1378	<i>Chironomus</i>	7631892	1654	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	13	wild organism	50648
1	1379	<i>Chironomus</i>	7631892	811	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	13	wild organism	50648
1	1682	<i>Chironomus</i>	7784465	64.6	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	13	wild organism	50648
1	1683	<i>Chironomus</i>	7784465	44.6	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	13	wild organism	50648
1	2017	<i>Chironomus tentans</i>	15502746	0.68	LC50/ITX/INC/	3rd instar larvae	LAB/S/C	2	25	6.3	14		4553
1	1401	<i>Chironomus zealandicus</i>	7631892	3619	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	13	wild organism	50648
1	1402	<i>Chironomus zealandicus</i>	7631892	2262	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	13	wild organism	50648
1	1702	<i>Chironomus zealandicus</i>	7784465	42.9	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	13	wild organism	50648
1	1703	<i>Chironomus zealandicus</i>	7784465	32.9	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	13	wild organism	50648
1	1504	<i>Daphnia magna</i>	7778430	5.4	LC50/MOR//	young, <= 24 h	LAB/S/I	2		7.95	15	dilution water profile	15923
1	1717	<i>Daphnia magna</i>	7784465	1.54	LC50/ITX//	first instar, 24 h	LAB/S/I	2	48.7	8	14.8		10579
1	1979	<i>Daphnia magna</i>	13464374	6.23	LC50/ITX//		LAB/S/I	2		7.5	13	precipitate, 3-5 h	6631
1	1438	<i>Polypedilum</i>	7631892	1904	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	13	wild organism	50648
1	1439	<i>Polypedilum</i>	7631892	906	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	13	wild organism	50648
1	1871	<i>Polypedilum</i>	7784465	142	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	13	wild organism	50648
1	1872	<i>Polypedilum</i>	7784465	72.3	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	13	wild organism	50648
2	Arthropods exposed to arsenic at >15degC over 3-30 days exposure												
2	1499	<i>Bosmina longirostris</i>	7778430	0.85	LC50/ITX//	neonate, < 24 h	LAB/S/S	4	120	6.8	17		10658
2	1451	<i>Ceriodaphnia dubia</i>	7631892	1.42	/MOR/DEC/NOSIG	neonate, <24 h	LAB/R/C	8	119.4	7.9	25.8		13729
2	1452	<i>Ceriodaphnia dubia</i>	7631892	1.22	/REP/DEC/NOSIG	neonate, <24 h	LAB/R/C	8	119.4	7.9	25.8		13729
2	1453	<i>Ceriodaphnia dubia</i>	7631892	1.14	NR-ZERO/MOR/NEF/NOSIG	neonate, <24 h	LAB/R/C	8	119.4	7.9	25.8		13729
2	1367	<i>Chironomus</i>	7631892	481	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1369	<i>Chironomus</i>	7631892	502	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1374	<i>Chironomus</i>	7631892	33.1	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1377	<i>Chironomus</i>	7631892	104	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1383	<i>Chironomus</i>	7631892	454	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1386	<i>Chironomus</i>	7631892	435	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	23	wild organism	50648
2	1671	<i>Chironomus</i>	7784465	9.8	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
2	1673	<i>Chironomus</i>	7784465	6.9	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1678	<i>Chironomus</i>	7784465	15	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1681	<i>Chironomus</i>	7784465	17.3	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1687	<i>Chironomus</i>	7784465	20.4	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1690	<i>Chironomus</i>	7784465	16	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	23	wild organism	50648
2	1390	<i>Chironomus zealandicus</i>	7631892	814	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1392	<i>Chironomus zealandicus</i>	7631892	4176	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1397	<i>Chironomus zealandicus</i>	7631892	285	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1400	<i>Chironomus zealandicus</i>	7631892	919	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1406	<i>Chironomus zealandicus</i>	7631892	1971	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1409	<i>Chironomus zealandicus</i>	7631892	692	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	23	wild organism	50648
2	1693	<i>Chironomus zealandicus</i>	7784465	60	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1698	<i>Chironomus zealandicus</i>	7784465	16.2	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1701	<i>Chironomus zealandicus</i>	7784465	63.4	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1707	<i>Chironomus zealandicus</i>	7784465	29.2	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1710	<i>Chironomus zealandicus</i>	7784465	26.2	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	23	wild organism	50648
2	1714	<i>Chironomus zealandicus</i>	7784465	70.4	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1500	<i>Daphnia magna</i>	7778430	1.4	EC50/REP//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
2	1503	<i>Daphnia magna</i>	7778430	2.85	LC50/MOR//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
2	1721	<i>Daphnia magna</i>	7784465	1.5	LC50/ITX//	< 24 h	LAB/F/I	4	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695
2	1725	<i>Daphnia magna</i>	7784465	4.34	LC50/ITX//	< 24 h	LAB/S/I	4	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695
2	1927	<i>Daphnia magna</i>	7784465	0.35	/MOR//	< 24 h	LAB/R/S	28	48.1	7.65	20.8	acidity, conductivity 81 131 umhoscm	10695

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
2	1928	<i>Daphnia magna</i>	7784465	0.63	/REP//	< 24 h	LAB/R/S	28	48.1	7.65	20.8	acidity, conductivity 81 131 umhoscm	10695
2	1929	<i>Daphnia magna</i>	7784465	1.32	/REP//	< 24 h	LAB/R/S	28	48.1	7.65	20.8	acidity, conductivity 81 131 umhoscm	10695
2	1930	<i>Daphnia magna</i>	7784465	0.63	/GRO//	< 24 h	LAB/R/S	28	48.1	7.65	20.8	acidity, conductivity 81 131 umhoscm	10695
2	1931	<i>Daphnia magna</i>	7784465	1.32	/GRO//	< 24 h	LAB/R/S	28	48.1	7.65	20.8	acidity, conductivity 81 131 umhoscm	10695
2	1742	<i>Gammarus pseudolimnaeus</i>	7784465	0.87	LC50/ITX//		LAB/F/S	4	48.1	7.65	18.5	acidity, conductivity 81 131 umhoscm	10695
2	1745	<i>Gammarus pseudolimnaeus</i>	7784465	0.88	LC50/MOR//	0.3 cm	LAB/F/I	4	46.3	7.7	18.4	acidity	10579
2	1273	<i>Macrobrachium potiuana</i>	1327533	2	NR-ZERO/MOR/NEF/	adult	LAB//	9		6.85	21		13488
2	1429	<i>Polypedilum</i>	7631892	608	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1434	<i>Polypedilum</i>	7631892	47.2	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1437	<i>Polypedilum</i>	7631892	235	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1443	<i>Polypedilum</i>	7631892	1235	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1446	<i>Polypedilum</i>	7631892	728	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	23	wild organism	50648
2	1450	<i>Polypedilum</i>	7631892	700	LC50/MOR/INC/	polypedilum pavidus,	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1862	<i>Polypedilum</i>	7784465	13.6	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1867	<i>Polypedilum</i>	7784465	19.7	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1870	<i>Polypedilum</i>	7784465	21	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
2	1876	<i>Polypedilum</i>	7784465	76.1	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	18	wild organism	50648
2	1879	<i>Polypedilum</i>	7784465	24.8	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	23	wild organism	50648

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
2	1883	<i>Polypedilum</i>	7784465	26.6	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
3	Arthropods exposed to arsenic at >15degC over 1-3 days exposure												
3	1260	<i>Belostoma elegans</i>	1327533	20.05	/MOR/INC/	adult	LAB//	2		7.2	22.4		13488
3	1365	<i>Chironomus</i>	7631892	1303	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1366	<i>Chironomus</i>	7631892	735	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1368	<i>Chironomus</i>	7631892	1155	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
3	1370	<i>Chironomus</i>	7631892	52	LC50/MOR/INC/	1st instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1371	<i>Chironomus</i>	7631892	41.7	LC50/MOR/INC/	1st instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1372	<i>Chironomus</i>	7631892	69	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1373	<i>Chironomus</i>	7631892	49.2	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1375	<i>Chironomus</i>	7631892	176	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1376	<i>Chironomus</i>	7631892	128	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1381	<i>Chironomus</i>	7631892	2241	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1382	<i>Chironomus</i>	7631892	709	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
3	1384	<i>Chironomus</i>	7631892	1069	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	23	wild organism	50648
3	1385	<i>Chironomus</i>	7631892	639	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	23	wild organism	50648
3	1387	<i>Chironomus</i>	7631892	2925	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1669	<i>Chironomus</i>	7784465	39.1	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1670	<i>Chironomus</i>	7784465	18	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1672	<i>Chironomus</i>	7784465	18.3	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
3	1674	<i>Chironomus</i>	7784465	14.7	LC50/MOR/INC/	1st instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1675	<i>Chironomus</i>	7784465	12.7	LC50/MOR/INC/	1st instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1676	<i>Chironomus</i>	7784465	20.4	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1677	<i>Chironomus</i>	7784465	16.6	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1679	<i>Chironomus</i>	7784465	31.3	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1680	<i>Chironomus</i>	7784465	19.6	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1685	<i>Chironomus</i>	7784465	54.8	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1686	<i>Chironomus</i>	7784465	25.1	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
3	1688	<i>Chironomus</i>	7784465	27.1	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	23	wild organism	50648
3	1689	<i>Chironomus</i>	7784465	21.7	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	23	wild organism	50648
3	1691	<i>Chironomus</i>	7784465	42.1	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1388	<i>Chironomus zealandicus</i>	7631892	2490	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1389	<i>Chironomus zealandicus</i>	7631892	1707	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1391	<i>Chironomus zealandicus</i>	7631892	4028	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
3	1393	<i>Chironomus zealandicus</i>	7631892	239	LC50/MOR/INC/	1st instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1394	<i>Chironomus zealandicus</i>	7631892	184	LC50/MOR/INC/	1st instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1395	<i>Chironomus zealandicus</i>	7631892	395	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1396	<i>Chironomus zealandicus</i>	7631892	363	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1398	<i>Chironomus zealandicus</i>	7631892	1055	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1399	<i>Chironomus zealandicus</i>	7631892	944	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1404	<i>Chironomus zealandicus</i>	7631892	5104	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1405	<i>Chironomus zealandicus</i>	7631892	2456	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
3	1407	<i>Chironomus zealandicus</i>	7631892	3519	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	23	wild organism	50648
3	1408	<i>Chironomus zealandicus</i>	7631892	1498	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	23	wild organism	50648
3	1410	<i>Chironomus zealandicus</i>	7631892	4190	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1692	<i>Chironomus zealandicus</i>	7784465	92.1	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
3	1694	<i>Chironomus zealandicus</i>	7784465	36.7	LC50/MOR/INC/	1st instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1695	<i>Chironomus zealandicus</i>	7784465	29.5	LC50/MOR/INC/	1st instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1696	<i>Chironomus zealandicus</i>	7784465	79.4	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1697	<i>Chironomus zealandicus</i>	7784465	24.5	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1699	<i>Chironomus zealandicus</i>	7784465	103	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1700	<i>Chironomus zealandicus</i>	7784465	81.3	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1705	<i>Chironomus zealandicus</i>	7784465	58.6	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1706	<i>Chironomus zealandicus</i>	7784465	34.5	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
3	1708	<i>Chironomus zealandicus</i>	7784465	40.9	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	23	wild organism	50648
3	1709	<i>Chironomus zealandicus</i>	7784465	33.4	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	23	wild organism	50648
3	1711	<i>Chironomus zealandicus</i>	7784465	116	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1712	<i>Chironomus zealandicus</i>	7784465	122	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1713	<i>Chironomus zealandicus</i>	7784465	105	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1470	<i>Daphnia magna</i>	7778394	2.5	LC50/MOR//	neonate, < 24 h	LAB/S/S	2		7.75	20		12154
3	1471	<i>Daphnia magna</i>	7778394	6.6	LC50/MOR//	neonate, < 24 h	LAB/S/S	2		7.75	20		12154
3	1502	<i>Daphnia magna</i>	7778430	7.4	LC50/MOR//	12 h	LAB/S/I	2	45.3	7.74	18	see paper	2022
3	1506	<i>Daphnia magna</i>	7778430	44.66	LC50/MOR/INC/	6-24 h	LAB/I	2		7.3	25		4002
3	1719	<i>Daphnia magna</i>	7784465	1.5	LC50/ITX//	< 24 h	LAB/F/I	2	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695
3	1720	<i>Daphnia magna</i>	7784465	1.5	LC50/ITX//	< 24 h	LAB/F/I	3	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695
3	1723	<i>Daphnia magna</i>	7784465	4.63	LC50/ITX//	< 24 h	LAB/S/I	2	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695
3	1724	<i>Daphnia magna</i>	7784465	4.63	LC50/ITX//	< 24 h	LAB/S/I	3	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695
3	1910	<i>Daphnia magna</i>	7784465	4.6	/ITX/INC/	<=24 h	LAB/S/	2		7.5	23		607
3	1508	<i>Daphnia pulex</i>	7778430	49.6	LC50/ITX//		LAB/S/S	2	120	6.8	17		10658
3	1740	<i>Gammarus pseudolimnaeus</i>	7784465	1.99	LC50/ITX//		LAB/F/S	1.79	48.1	7.65	18.5	acidity, conductivity 81 131 umhoscm	10695
3	1741	<i>Gammarus pseudolimnaeus</i>	7784465	1.02	LC50/ITX//		LAB/F/S	2.67	48.1	7.65	18.5	acidity, conductivity 81 131 umhoscm	10695
3	1743	<i>Gammarus pseudolimnaeus</i>	7784465	1.99	LC50/MOR//	0.3 cm	LAB/F/I	1.81	46.3	7.7	18.4	acidity	10579
3	1744	<i>Gammarus pseudolimnaeus</i>	7784465	0.88	LC50/MOR//	0.3 cm	LAB/F/I	3	46.3	7.7	18.4	acidity	10579
3	1428	<i>Polypedilum</i>	7631892	1191	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	18	wild organism	50648

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
3	1430	<i>Polypedilum</i>	7631892	21.4	LC50/MOR/INC/	polypedilum pavidus, 1st instar	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1431	<i>Polypedilum</i>	7631892	31.1	LC50/MOR/INC/	polypedilum pavidus, 1st instar	LAB/S/C	3	45.5	6.95	18	wild organism	50648
3	1432	<i>Polypedilum</i>	7631892	93.5	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1433	<i>Polypedilum</i>	7631892	73.6	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1435	<i>Polypedilum</i>	7631892	470	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1436	<i>Polypedilum</i>	7631892	267	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1441	<i>Polypedilum</i>	7631892	3982	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1442	<i>Polypedilum</i>	7631892	2251	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	18	wild organism	50648
3	1444	<i>Polypedilum</i>	7631892	1509	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	23	wild organism	50648
3	1445	<i>Polypedilum</i>	7631892	790	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	23	wild organism	50648
3	1447	<i>Polypedilum</i>	7631892	2336	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1448	<i>Polypedilum</i>	7631892	1492	LC50/MOR/INC/	polypedilum pavidus,	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1449	<i>Polypedilum</i>	7631892	1127	LC50/MOR/INC/	polypedilum pavidus,	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1861	<i>Polypedilum</i>	7784465	30.4	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	18	wild organism	50648
3	1863	<i>Polypedilum</i>	7784465	19	LC50/MOR/INC/	polypedilum pavidus, 1st instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1864	<i>Polypedilum</i>	7784465	6.2	LC50/MOR/INC/	polypedilum pavidus, 1st instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1865	<i>Polypedilum</i>	7784465	37.4	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1866	<i>Polypedilum</i>	7784465	22.2	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1868	<i>Polypedilum</i>	7784465	51	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1869	<i>Polypedilum</i>	7784465	30.4	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1874	<i>Polypedilum</i>	7784465	146	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	18	wild organism	50648

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
3	1875	<i>Polypedilum</i>	7784465	125	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	18	wild organism	50648
3	1877	<i>Polypedilum</i>	7784465	90.6	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	23	wild organism	50648
3	1878	<i>Polypedilum</i>	7784465	46.6	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	23	wild organism	50648
3	1880	<i>Polypedilum</i>	7784465	88.6	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	18	wild organism	50648
3	1881	<i>Polypedilum</i>	7784465	84.7	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
3	1882	<i>Polypedilum</i>	7784465	38.7	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
3	1885	<i>Pteronarcys californicus</i>	7784465	120	LC50/MOR//	30-35 mm	LAB/S/I	2		7.1	15.5		889
3	1255	<i>Tanytarsus dissimilis</i>	1327533	36.7	LC50/MOR//	3rd and 4th instar	LAB/S/I	2	46.6	7.45	23.8		10417
4	<i>Invertebrates exposed to arsenic at <15degC over 1-3 days exposure</i>												
4	1378	<i>Chironomus</i>	7631892	1654	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	13	wild organism	50648
4	1379	<i>Chironomus</i>	7631892	811	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	13	wild organism	50648
4	1682	<i>Chironomus</i>	7784465	64.6	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	13	wild organism	50648
4	1683	<i>Chironomus</i>	7784465	44.6	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	13	wild organism	50648
4	2017	<i>Chironomus tentans</i>	15502746	0.68	LC50/ITX/INC/	3rd instar larvae	LAB/S/C	2	25	6.3	14		4553
4	1401	<i>Chironomus zealandicus</i>	7631892	3619	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	13	wild organism	50648
4	1402	<i>Chironomus zealandicus</i>	7631892	2262	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	13	wild organism	50648
4	1702	<i>Chironomus zealandicus</i>	7784465	42.9	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	13	wild organism	50648
4	1703	<i>Chironomus zealandicus</i>	7784465	32.9	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	13	wild organism	50648
4	1504	<i>Daphnia magna</i>	7778430	5.4	LC50/MOR//	young, <= 24 h	LAB/S/I	2		7.95	15	dilution water profile	15923
4	1717	<i>Daphnia magna</i>	7784465	1.54	LC50/ITX//	first instar, 24 h	LAB/S/I	2	48.7	8	14.8		10579
4	1979	<i>Daphnia magna</i>	13464374	6.23	LC50/ITX//		LAB/S/I	2		7.5	13	precipitate, 3-5 h	6631
4	1438	<i>Polypedilum</i>	7631892	1904	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	13	wild organism	50648
4	1439	<i>Polypedilum</i>	7631892	906	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	13	wild organism	50648
4	1871	<i>Polypedilum</i>	7784465	142	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	13	wild organism	50648

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
4	1872	<i>Polypedilum</i>	7784465	72.3	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	13	wild organism	50648
5	Invertebrates exposed to arsenic at >15degC over 3-30 days exposure												
5	1188	<i>Aplexa hypnorum</i>	1327533	9.28	LC50/MOR//	adult	LAB/S/I	4	49.5	7.55	25.2		10417
5	1499	<i>Bosmina longirostris</i>	7778430	0.85	LC50/ITX//	neonate, < 24 h	LAB/S/S	4	120	6.8	17		10658
5	1451	<i>Ceriodaphnia dubia</i>	7631892	1.42	/MOR/DEC/NOSIG	neonate, <24 h	LAB/R/C	8	119.4	7.9	25.8		13729
5	1452	<i>Ceriodaphnia dubia</i>	7631892	1.22	/REP/DEC/NOSIG	neonate, <24 h	LAB/R/C	8	119.4	7.9	25.8		13729
5	1453	<i>Ceriodaphnia dubia</i>	7631892	1.14	NR-ZERO/MOR/NEF/NOSIG	neonate, <24 h	LAB/R/C	8	119.4	7.9	25.8		13729
5	1367	<i>Chironomus</i>	7631892	481	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1369	<i>Chironomus</i>	7631892	502	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1374	<i>Chironomus</i>	7631892	33.1	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1377	<i>Chironomus</i>	7631892	104	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1383	<i>Chironomus</i>	7631892	454	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1386	<i>Chironomus</i>	7631892	435	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	23	wild organism	50648
5	1671	<i>Chironomus</i>	7784465	9.8	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1673	<i>Chironomus</i>	7784465	6.9	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1678	<i>Chironomus</i>	7784465	15	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1681	<i>Chironomus</i>	7784465	17.3	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1687	<i>Chironomus</i>	7784465	20.4	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1690	<i>Chironomus</i>	7784465	16	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	23	wild organism	50648
5	1390	<i>Chironomus zealandicus</i>	7631892	814	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1392	<i>Chironomus zealandicus</i>	7631892	4176	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1397	<i>Chironomus zealandicus</i>	7631892	285	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1400	<i>Chironomus zealandicus</i>	7631892	919	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1406	<i>Chironomus zealandicus</i>	7631892	1971	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1409	<i>Chironomus zealandicus</i>	7631892	692	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	23	wild organism	50648
5	1693	<i>Chironomus zealandicus</i>	7784465	60	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1698	<i>Chironomus zealandicus</i>	7784465	16.2	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1701	<i>Chironomus zealandicus</i>	7784465	63.4	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648

mg total metal/L, hardness in mg CaCO3/L

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SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
5	1707	<i>Chironomus zealandicus</i>	7784465	29.2	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1710	<i>Chironomus zealandicus</i>	7784465	26.2	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	23	wild organism	50648
5	1714	<i>Chironomus zealandicus</i>	7784465	70.4	LC50/MOR/INC/	4th instar larvae	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1500	<i>Daphnia magna</i>	7778430	1.4	EC50/REP//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
5	1503	<i>Daphnia magna</i>	7778430	2.85	LC50/MOR//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
5	1721	<i>Daphnia magna</i>	7784465	1.5	LC50/ITX//	< 24 h	LAB/F/I	4	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695
5	1725	<i>Daphnia magna</i>	7784465	4.34	LC50/ITX//	< 24 h	LAB/S/I	4	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695
5	1927	<i>Daphnia magna</i>	7784465	0.35	/MOR//	< 24 h	LAB/R/S	28	48.1	7.65	20.8	acidity, conductivity 81 131 umhoscm	10695
5	1928	<i>Daphnia magna</i>	7784465	0.63	/REP//	< 24 h	LAB/R/S	28	48.1	7.65	20.8	acidity, conductivity 81 131 umhoscm	10695
5	1929	<i>Daphnia magna</i>	7784465	1.32	/REP//	< 24 h	LAB/R/S	28	48.1	7.65	20.8	acidity, conductivity 81 131 umhoscm	10695
5	1930	<i>Daphnia magna</i>	7784465	0.63	/GRO//	< 24 h	LAB/R/S	28	48.1	7.65	20.8	acidity, conductivity 81 131 umhoscm	10695
5	1931	<i>Daphnia magna</i>	7784465	1.32	/GRO//	< 24 h	LAB/R/S	28	48.1	7.65	20.8	acidity, conductivity 81 131 umhoscm	10695
5	1742	<i>Gammarus pseudolimnaeus</i>	7784465	0.87	LC50/ITX//		LAB/F/S	4	48.1	7.65	18.5	acidity, conductivity 81 131 umhoscm	10695
5	1745	<i>Gammarus pseudolimnaeus</i>	7784465	0.88	LC50/MOR//	0.3 cm	LAB/F/I	4	46.3	7.7	18.4	acidity	10579
5	1273	<i>Macrobrachium potiuna</i>	1327533	2	NR-ZERO/MOR/NEF/	adult	LAB//	9		6.85	21		13488
5	1429	<i>Polypedilum</i>	7631892	608	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1434	<i>Polypedilum</i>	7631892	47.2	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	4	45.5	6.95	18	cultured organism	50648

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
5	1437	<i>Polypedilum</i>	7631892	235	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1443	<i>Polypedilum</i>	7631892	1235	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1446	<i>Polypedilum</i>	7631892	728	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	23	wild organism	50648
5	1450	<i>Polypedilum</i>	7631892	700	LC50/MOR/INC/	polypedilum pavidus,	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1862	<i>Polypedilum</i>	7784465	13.6	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1867	<i>Polypedilum</i>	7784465	19.7	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1870	<i>Polypedilum</i>	7784465	21	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1876	<i>Polypedilum</i>	7784465	76.1	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	18	wild organism	50648
5	1879	<i>Polypedilum</i>	7784465	24.8	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	23	wild organism	50648
5	1883	<i>Polypedilum</i>	7784465	26.6	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	4	45.5	6.95	18	cultured organism	50648
5	1586	<i>Tubifex tubifex</i>	7778430	127.36	LC50/MOR/INC/	20 mm	LAB/I	4		7.4	25		4002
6	Invertebrates exposed to arsenic at >15degC over 1-3 days exposure												
6	1260	<i>Belostoma elegans</i>	1327533	20.05	/MOR/INC/	adult	LAB//	2		7.2	22.4		13488
6	1365	<i>Chironomus</i>	7631892	1303	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1366	<i>Chironomus</i>	7631892	735	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1368	<i>Chironomus</i>	7631892	1155	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1370	<i>Chironomus</i>	7631892	52	LC50/MOR/INC/	1st instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1371	<i>Chironomus</i>	7631892	41.7	LC50/MOR/INC/	1st instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1372	<i>Chironomus</i>	7631892	69	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1373	<i>Chironomus</i>	7631892	49.2	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1375	<i>Chironomus</i>	7631892	176	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1376	<i>Chironomus</i>	7631892	128	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1381	<i>Chironomus</i>	7631892	2241	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1382	<i>Chironomus</i>	7631892	709	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1384	<i>Chironomus</i>	7631892	1069	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	23	wild organism	50648
6	1385	<i>Chironomus</i>	7631892	639	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	23	wild organism	50648
6	1387	<i>Chironomus</i>	7631892	2925	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1669	<i>Chironomus</i>	7784465	39.1	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1670	<i>Chironomus</i>	7784465	18	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1672	<i>Chironomus</i>	7784465	18.3	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
6	1674	<i>Chironomus</i>	7784465	14.7	LC50/MOR/INC/	1st instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1675	<i>Chironomus</i>	7784465	12.7	LC50/MOR/INC/	1st instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1676	<i>Chironomus</i>	7784465	20.4	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1677	<i>Chironomus</i>	7784465	16.6	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1679	<i>Chironomus</i>	7784465	31.3	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1680	<i>Chironomus</i>	7784465	19.6	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1685	<i>Chironomus</i>	7784465	54.8	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1686	<i>Chironomus</i>	7784465	25.1	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1688	<i>Chironomus</i>	7784465	27.1	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	23	wild organism	50648
6	1689	<i>Chironomus</i>	7784465	21.7	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	23	wild organism	50648
6	1691	<i>Chironomus</i>	7784465	42.1	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1388	<i>Chironomus zealandicus</i>	7631892	2490	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1389	<i>Chironomus zealandicus</i>	7631892	1707	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1391	<i>Chironomus zealandicus</i>	7631892	4028	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1393	<i>Chironomus zealandicus</i>	7631892	239	LC50/MOR/INC/	1st instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1394	<i>Chironomus zealandicus</i>	7631892	184	LC50/MOR/INC/	1st instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1395	<i>Chironomus zealandicus</i>	7631892	395	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1396	<i>Chironomus zealandicus</i>	7631892	363	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1398	<i>Chironomus zealandicus</i>	7631892	1055	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1399	<i>Chironomus zealandicus</i>	7631892	944	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1404	<i>Chironomus zealandicus</i>	7631892	5104	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1405	<i>Chironomus zealandicus</i>	7631892	2456	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1407	<i>Chironomus zealandicus</i>	7631892	3519	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	23	wild organism	50648
6	1408	<i>Chironomus zealandicus</i>	7631892	1498	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	23	wild organism	50648
6	1410	<i>Chironomus zealandicus</i>	7631892	4190	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
6	1692	<i>Chironomus zealandicus</i>	7784465	92.1	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1694	<i>Chironomus zealandicus</i>	7784465	36.7	LC50/MOR/INC/	1st instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1695	<i>Chironomus zealandicus</i>	7784465	29.5	LC50/MOR/INC/	1st instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1696	<i>Chironomus zealandicus</i>	7784465	79.4	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1697	<i>Chironomus zealandicus</i>	7784465	24.5	LC50/MOR/INC/	2nd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1699	<i>Chironomus zealandicus</i>	7784465	103	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1700	<i>Chironomus zealandicus</i>	7784465	81.3	LC50/MOR/INC/	3rd instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1705	<i>Chironomus zealandicus</i>	7784465	58.6	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1706	<i>Chironomus zealandicus</i>	7784465	34.5	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1708	<i>Chironomus zealandicus</i>	7784465	40.9	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	23	wild organism	50648
6	1709	<i>Chironomus zealandicus</i>	7784465	33.4	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	23	wild organism	50648
6	1711	<i>Chironomus zealandicus</i>	7784465	116	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1712	<i>Chironomus zealandicus</i>	7784465	122	LC50/MOR/INC/	4th instar larvae	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1713	<i>Chironomus zealandicus</i>	7784465	105	LC50/MOR/INC/	4th instar larvae	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1470	<i>Daphnia magna</i>	7778394	2.5	LC50/MOR//	neonate, < 24 h	LAB/S/S	2		7.75	20		12154
6	1471	<i>Daphnia magna</i>	7778394	6.6	LC50/MOR//	neonate, < 24 h	LAB/S/S	2		7.75	20		12154
6	1502	<i>Daphnia magna</i>	7778430	7.4	LC50/MOR//	12 h	LAB/S/I	2	45.3	7.74	18	see paper	2022
6	1506	<i>Daphnia magna</i>	7778430	44.66	LC50/MOR/INC/	6-24 h	LAB//I	2		7.3	25		4002
6	1719	<i>Daphnia magna</i>	7784465	1.5	LC50/ITX//	< 24 h	LAB/F/I	2	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695
6	1720	<i>Daphnia magna</i>	7784465	1.5	LC50/ITX//	< 24 h	LAB/F/I	3	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
6	1723	<i>Daphnia magna</i>	7784465	4.63	LC50/ITX//	< 24 h	LAB/S/I	2	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695
6	1724	<i>Daphnia magna</i>	7784465	4.63	LC50/ITX//	< 24 h	LAB/S/I	3	48.1	7.65	15.6	acidity, conductivity 81 131 umhoscm	10695
6	1910	<i>Daphnia magna</i>	7784465	4.6	/ITX/INC/	<=24 h	LAB/S/	2		7.5	23		607
6	1508	<i>Daphnia pulex</i>	7778430	49.6	LC50/ITX//		LAB/S/S	2	120	6.8	17		10658
6	1740	<i>Gammarus pseudolimnaeus</i>	7784465	1.99	LC50/ITX//		LAB/F/S	1.79	48.1	7.65	18.5	acidity, conductivity 81 131 umhoscm	10695
6	1741	<i>Gammarus pseudolimnaeus</i>	7784465	1.02	LC50/ITX//		LAB/F/S	2.67	48.1	7.65	18.5	acidity, conductivity 81 131 umhoscm	10695
6	1743	<i>Gammarus pseudolimnaeus</i>	7784465	1.99	LC50/MOR//	0.3 cm	LAB/F/I	1.81	46.3	7.7	18.4	acidity	10579
6	1744	<i>Gammarus pseudolimnaeus</i>	7784465	0.88	LC50/MOR//	0.3 cm	LAB/F/I	3	46.3	7.7	18.4	acidity	10579
6	1338	<i>Polycelis nigra</i>	1327533	40	/MOR//		LAB/S/I	2		6.4	16.5		10012
6	1427	<i>Polycelis nigra</i>	7631892	359.62	LT50/MOR//		LAB/S/I	2		7.8	16.5		10013
6	1428	<i>Polypedilum</i>	7631892	1191	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1430	<i>Polypedilum</i>	7631892	21.4	LC50/MOR/INC/	polypedilum pavidus, 1st instar	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1431	<i>Polypedilum</i>	7631892	31.1	LC50/MOR/INC/	polypedilum pavidus, 1st instar	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1432	<i>Polypedilum</i>	7631892	93.5	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1433	<i>Polypedilum</i>	7631892	73.6	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1435	<i>Polypedilum</i>	7631892	470	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1436	<i>Polypedilum</i>	7631892	267	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1441	<i>Polypedilum</i>	7631892	3982	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1442	<i>Polypedilum</i>	7631892	2251	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1444	<i>Polypedilum</i>	7631892	1509	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	23	wild organism	50648

mg total metal/L, hardness in mg CaCO₃/L

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SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
6	1445	<i>Polypedilum</i>	7631892	790	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	23	wild organism	50648
6	1447	<i>Polypedilum</i>	7631892	2336	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1448	<i>Polypedilum</i>	7631892	1492	LC50/MOR/INC/	polypedilum pavidus,	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1449	<i>Polypedilum</i>	7631892	1127	LC50/MOR/INC/	polypedilum pavidus,	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1861	<i>Polypedilum</i>	7784465	30.4	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1863	<i>Polypedilum</i>	7784465	19	LC50/MOR/INC/	polypedilum pavidus, 1st instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1864	<i>Polypedilum</i>	7784465	6.2	LC50/MOR/INC/	polypedilum pavidus, 1st instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1865	<i>Polypedilum</i>	7784465	37.4	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1866	<i>Polypedilum</i>	7784465	22.2	LC50/MOR/INC/	polypedilum pavidus, 2nd instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1868	<i>Polypedilum</i>	7784465	51	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1869	<i>Polypedilum</i>	7784465	30.4	LC50/MOR/INC/	polypedilum pavidus, 3rd instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1874	<i>Polypedilum</i>	7784465	146	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1875	<i>Polypedilum</i>	7784465	125	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	18	wild organism	50648
6	1877	<i>Polypedilum</i>	7784465	90.6	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	23	wild organism	50648
6	1878	<i>Polypedilum</i>	7784465	46.6	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	23	wild organism	50648
6	1880	<i>Polypedilum</i>	7784465	88.6	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	18	wild organism	50648
6	1881	<i>Polypedilum</i>	7784465	84.7	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	2	45.5	6.95	18	cultured organism	50648
6	1882	<i>Polypedilum</i>	7784465	38.7	LC50/MOR/INC/	polypedilum pavidus, 4th instar	LAB/S/C	3	45.5	6.95	18	cultured organism	50648
6	1885	<i>Pteronarcys californicus</i>	7784465	120	LC50/MOR//	30-35 mm	LAB/S/I	2		7.1	15.5		889
6	1255	<i>Tanytarsus dissimilis</i>	1327533	36.7	LC50/MOR//	3rd and 4th instar	LAB/S/I	2	46.6	7.45	23.8		10417
6	1585	<i>Tubifex tubifex</i>	7778430	190.54	LC50/MOR/INC/	20 mm	LAB/I	2		7.4	25		4002
7	Vertebrates exposed to arsenic at <15degC over 3-30 days exposure												

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
7	1732	<i>Esox masquinongy</i>	7784465	1.1	LC50/MOR//	swim-up fry	LAB/S/I	4		7.45	15	nh3 < 0.05 ppm	8449
7	1911	<i>Esox masquinongy</i>	7784465	0.05	NR-LETH/MOR//	newly hat fry	LAB/S/I	15		7.45	15	nh3	15330
7	1182	<i>Oncorhynchus mykiss</i>	1303282	0.97	/MOR//	9.5-21.9 g	LAB/F/S	28	43.5	7.1	15	acidity 3.2-5.7	9783
7	1240	<i>Oncorhynchus mykiss</i>	1327533	21	LC50/MOR/INC/	4-6 g	LAB/F/C	4	373	8	13.8		14077
7	1241	<i>Oncorhynchus mykiss</i>	1327533	18.9	LC50/MOR/INC/	4-6 g	LAB/F/C	6	373	8	13.8		14077
7	1242	<i>Oncorhynchus mykiss</i>	1327533	18.1	LC50/MOR/INC/	4-6 g	LAB/F/C	6	373	8	13.8		14077
7	1243	<i>Oncorhynchus mykiss</i>	1327533	20.2	LC50/MOR/INC/	4-6 g	LAB/F/C	4	373	8	13.8		14077
7	1284	<i>Oncorhynchus mykiss</i>	1327533	3.5	/GRO/DEC/SIG		LAB/F/C	15.5	127	7.9	11		14817
7	1285	<i>Oncorhynchus mykiss</i>	1327533	3.5	/BCM/DEC/MULT		LAB/F/C	21	127	7.9	11		14817
7	1329	<i>Oncorhynchus mykiss</i>	1327533	0.96	/MOR//	parr, 9.5-21.9 g	LAB/F/S	28	43.5	7.1	15	acidity 3.2-5.7	9783
7	1333	<i>Oncorhynchus mykiss</i>	1327533	3.5	/MOR/CHG/	yearling, 19.59-28.93 g	LAB/F/C	21	127	7.9	11		14817
7	1334	<i>Oncorhynchus mykiss</i>	1327533	3.5	/PHY/CHG/		LAB/F/C	3.5	127	7.9	11		14817
7	1335	<i>Oncorhynchus mykiss</i>	1327533	3.5	/BEH/CHG/	23.97-28.53 g, 13.80-15.14 cm	LAB/F/C	21	127	7.9	11		14817
7	1336	<i>Oncorhynchus mykiss</i>	1327533	3.5	/FDB/DEC/		LAB/F/C	21	127	7.9	11		14817
7	1525	<i>Oncorhynchus mykiss</i>	7778430	72000	ET50/BEH//	1.5 g	LAB/F/I	6.79	382	7.98	14.8		6538
7	1528	<i>Oncorhynchus mykiss</i>	7778430	43	LC50/MOR//	young of yr, 0.5-3.0 g	LAB/S/I	4		7.95	15	dilution water profile	15923
7	1640	<i>Oncorhynchus mykiss</i>	7784341		/MOR/INC/SIG	sac fry	LAB/I/M	17.5	45	7.55	11		20034
7	1813	<i>Oncorhynchus mykiss</i>	7784465	0.54	LC50/MOR/INC/	eggs	LAB/R/C	28	104	7.4	13		5305
7	1814	<i>Oncorhynchus mykiss</i>	7784465	0.54	LC50/MOR//	eggs	LAB/R/S	28	99	7.5	12.5		6199
7	1822	<i>Oncorhynchus mykiss</i>	7784465	0.55	LC50/MOR//	egg	LAB/R/S	28	101	7.35	12.5		11838
7	1484	<i>Oncorhynchus tshawytscha</i>	7778394	167	LC50/MOR//	fry, 1.03 g	LAB/S/I	4	211	7.15	12		3526

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
7	1486	<i>Oncorhynchus tshawytscha</i>	7778394	157	LC50/MOR//	fry	LAB/S/I	4	343	7.15	12		3526
7	1827	<i>Oncorhynchus tshawytscha</i>	7784465	25.1	LC50/MOR//	fry, 0.50 g	LAB/S/I	4	211	7.65	12		3526
7	1829	<i>Oncorhynchus tshawytscha</i>	7784465	21.4	LC50/MOR//	fry, 1.99 g	LAB/S/I	4	343	7.55	12		3526
7	1250	<i>Rana hexadactyla</i>	1327533	0.25	LC50/MOR/INC/	20(15-25) mm, 500(350-800) mg,	LAB/R/I	4	20	6.1	15	acidity, ca, mg	11438
8	Vertebrates exposed to arsenic at >15degC over 3-30 days exposure												
8	1647	<i>Ambystoma opacum</i>	7784465	4.45	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
8	1190	<i>Barbus javanicus</i>	1327533	24.17	LC50/MOR//	15-17 cm, 55-65 g	LAB/S/I	4	218.5	7.15	23		4456
8	1655	<i>Carassius auratus</i>	7784465	0.49	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
8	1662	<i>Carassius auratus</i>	7784465	44.9	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	4	148	7.61	25.1		838
8	1663	<i>Carassius auratus</i>	7784465	36.2	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	7	148	7.61	25.1		838
8	1664	<i>Carassius auratus</i>	7784465	33.1	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	10	148	7.61	25.1		838
8	1665	<i>Carassius auratus</i>	7784465	32.1	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	14	148	7.61	25.1		838
8	1364	<i>Catostomus latipinnis</i>	7631892	33.1	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	4	144	7.65	25		18979
8	1201	<i>Colisa fasciata</i>	1327533	6.09	LC50/MOR//	fingerling, 39 cm, 384 mg	LAB/S/S	4		7.1	29.6	conductivity 510 umhocm	15922
8	1302	<i>Colisa fasciata</i>	1327533	4	/GRO//	fingerling, 40 mm, 520 mg	LAB/S/S	12		7.1	29.6	conductivity 510 umhocm	15922
8	1733	<i>Esox masquinongy</i>	7784465	2.6	LC50/MOR//	5 wk fry	LAB/S/I	4		7.85	17	nh3 < 0.05 ppm	8449
8	1734	<i>Esox masquinongy</i>	7784465	16	LC50/MOR//	12 wk fry	LAB/S/I	4		7.7	17	nh3 < 0.05 ppm	8449
8	1932	<i>Esox masquinongy</i>	7784465	0.05	/BEH//	newly hat fry	LAB/S/S	14		7.45	23.25	nh3	15330
8	1490	<i>Gambusia affinis</i>	7778394	93.5	/GEN//		LAB/F/S	4.25	73.65	7.595	19.4		3989
8	1491	<i>Gambusia affinis</i>	7778394	93.5	/MOR//		LAB/F/S	4.25	73.65	7.595	19.4		3989
8	1746	<i>Gastrophryne carolinensis</i>	7784465	0.04	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
8	1993	<i>Ictalurus punctatus</i>	13464374	1	NR-ZERO/MOR/NEF/	16 mo, 300-400 g, male, sexually	LAB/R/C	7		7.45	26.5		3581
8	1994	<i>Ictalurus punctatus</i>	13464374	0.505	/BCM/CHG/	16 mo, 300-400 g, male, sexually	LAB/R/C	7		7.45	26.5		3581
8	1995	<i>Ictalurus punctatus</i>	13464374	0.505	/GEN/CHG/	16 mo, 300-400 g, male, sexually	LAB/R/C	7		7.45	26.5		3581

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
8	1996	<i>Ictalurus punctatus</i>	13464374	0.505	/PHY/INC/	16 mo, 300-400 g, male, sexually	LAB/R/C	7		7.45	26.5		3581
8	2001	<i>Ictalurus punctatus</i>	13464385	1	NR-ZERO/MOR/NEF/	16 mo, 300-400 g, male, sexually	LAB/R/C	7		7.45	26.5		3581
8	2002	<i>Ictalurus punctatus</i>	13464385	0.505	/BCM/INC/	16 mo, 300-400 g, male, sexually	LAB/R/C	7		7.45	26.5		3581
8	2003	<i>Ictalurus punctatus</i>	13464385	0.505	/GEN/CHG/	16 mo, 300-400 g, male, sexually	LAB/R/C	7		7.45	26.5		3581
8	2004	<i>Ictalurus punctatus</i>	13464385	0.505	/PHY/CHG/	16 mo, 300-400 g, male, sexually	LAB/R/C	7		7.45	26.5		3581
8	1755	<i>Jordanella floridae</i>	7784465	14.2	EC50/BEH//	34 d, sl=13 mm, 0.058 g	LAB/F/I	4	50.1	7.2	25.8		5940
8	1756	<i>Jordanella floridae</i>	7784465	14.2	EC50/BEH//	34 d, sl=13 mm, 0.058 g	LAB/F/I	4	50.1	7.2	24.2		5940
8	1760	<i>Jordanella floridae</i>	7784465	14.4	LC50/MOR//	fry	LAB/F/I	4	48.1	7.65	24.4	acidity, conductivity 81 131 umhos/cm	10695
8	1773	<i>Lepomis macrochirus</i>	7784465	15.3	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	4	52.35	7.65	24	see paper	2135
8	1774	<i>Lepomis macrochirus</i>	7784465	16.2	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	4	209.35	7.75	24	see paper	2135
8	1775	<i>Lepomis macrochirus</i>	7784465	15.4	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	4	366.8	7.85	24	see paper	2135
8	1788	<i>Lepomis macrochirus</i>	7784465	44.5	LC50/MOR//	juvenile, 6 mo, 66.4 mm, 2.4 g	LAB/F/S	3.21	140	7.98	24.9		838
8	1789	<i>Lepomis macrochirus</i>	7784465	33.3	LC50/MOR//	juvenile, 6 mo, 66.4 mm, 2.4 g	LAB/F/S	3.83	140	7.98	24.9		838
8	1790	<i>Lepomis macrochirus</i>	7784465	31.2	LC50/MOR//	juvenile, 6 mo, 66.4 mm, 2.4 g	LAB/F/S	4	140	7.98	24.9		838
8	1791	<i>Lepomis macrochirus</i>	7784465	72	LC50/MOR//	juvenile, 6 mo, 51.8 mm, 2.1 g	LAB/F/S	4	147	7.82	24.9		838
8	1792	<i>Lepomis macrochirus</i>	7784465	67.3	LC50/MOR//	juvenile, 6 mo, 51.8 mm, 2.1 g	LAB/F/S	5	147	7.82	24.9		838
8	1793	<i>Lepomis macrochirus</i>	7784465	61.7	LC50/MOR//	juvenile, 6 mo, 51.8 mm, 2.1 g	LAB/F/S	7	147	7.82	24.9		838
8	1794	<i>Lepomis macrochirus</i>	7784465	47.8	LC50/MOR//	juvenile, 6 mo, 51.8 mm, 2.1 g	LAB/F/S	10	147	7.82	24.9		838
8	1795	<i>Lepomis macrochirus</i>	7784465	42.2	LC50/MOR//	juvenile, 6 mo, 51.8 mm, 2.1 g	LAB/F/S	11	147	7.82	24.9		838

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
8	1796	<i>Lepomis macrochirus</i>	7784465	37	LC50/MOR//	juvenile, 6 mo, 51.8 mm, 2.1 g	LAB/F/S	12	147	7.82	24.9		838
8	1797	<i>Lepomis macrochirus</i>	7784465	31.6	LC50/MOR//	juvenile, 6 mo, 51.8 mm, 2.1 g	LAB/F/S	14	147	7.82	24.9		838
8	1803	<i>Micropterus salmoides</i>	7784465	42.1	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
8	1420	<i>Morone saxatilis</i>	7631892	18.69	LC50/MOR/INC/		LAB/F/C	4		7.6	18.75		18109
8	1421	<i>Morone saxatilis</i>	7631892	7.28	LC50/MOR/INC/		LAB/F/C	4		7.6	18.75		18109
8	1229	<i>Mystus vittatus</i>	1327533	22	LC50/MOR//	9-11 cm, 15-18 g	LAB/S/I	4	218.5	7.15	23		4456
8	1233	<i>Notopterus notopterus</i>	1327533	30.93	LC50/MOR//	24 cm, 155 g	LAB/S/I	4	216.5	6.5	20		3440
8	1173	<i>Pimephales promelas</i>	1303282	25.6	LC50/MOR//	32 d	LAB/F/S	4	46.5	6.6	23.5		3687
8	1183	<i>Pimephales promelas</i>	1303282	1.5	/GRO//	0-48 h, embryo	LAB/F/S	30	46.5	7.35	25		3687
8	1184	<i>Pimephales promelas</i>	1303282	0.53	/GRO//	0-48 h, embryo	LAB/F/S	30	46.5	7.35	25		3687
8	1187	<i>Pimephales promelas</i>	1303339	82.3	LC50/MOR//	3.2-4.2 cm	LAB/S/S	4	44	7.55	22	conductivity 120-160 uohm	875
8	1834	<i>Pimephales promelas</i>	7784465	14.1	LC50/MOR//	fry	LAB/F/I	4	48.1	7.65	24.4	acidity, conductivity 81-131 umhos/cm	10695
8	1835	<i>Pimephales promelas</i>	7784465	12.6	LC50/MOR//	30 d, 0.15 g	LAB/F/I	4	43.9	7.4	25		12093
8	1841	<i>Pimephales promelas</i>	7784465	27	LC50/MOR//	juvenile, 3 mo, 21.0 mm, 0.085 g	LAB/F/S	4	149	7.77	25		838
8	1842	<i>Pimephales promelas</i>	7784465	24.9	LC50/MOR//	juvenile, 3 mo, 21.0 mm, 0.085 g	LAB/F/S	7.79	149	7.77	25		838
8	1843	<i>Pimephales promelas</i>	7784465	21.7	LC50/MOR//	juvenile, 3 mo, 21.0 mm, 0.085 g	LAB/F/S	11.79	149	7.77	25		838
8	1844	<i>Pimephales promelas</i>	7784465	18.2	LC50/MOR//	juvenile, 3 mo, 21.0 mm, 0.085 g	LAB/F/S	14	149	7.77	25		838
8	1845	<i>Pimephales promelas</i>	7784465	23.6	LC50/MOR/INC/	juvenile, 26-34 d	LAB/F/C	4	45	7.8	25		15031
8	1846	<i>Pimephales promelas</i>	7784465	9.9	LC50/MOR/INC/	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1847	<i>Pimephales promelas</i>	7784465	9.9	LC50/MOR/INC/	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1848	<i>Pimephales promelas</i>	7784465	9.9	LC50/MOR/INC/	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
8	1849	<i>Pimephales promelas</i>	7784465	9.9	LC50/MOR/INC/	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1850	<i>Pimephales promelas</i>	7784465	9.9	LC50/MOR/INC/	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1851	<i>Pimephales promelas</i>	7784465	9.9	LC50/MOR/INC/	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1852	<i>Pimephales promelas</i>	7784465	9.9	LC50/MOR/INC/	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1853	<i>Pimephales promelas</i>	7784465	9.6	LOEC/BCM/CHG/SIG	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1854	<i>Pimephales promelas</i>	7784465	17.7	LOEC/BCM/CHG/SIG	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1855	<i>Pimephales promelas</i>	7784465	6	LOEC/BCM/CHG/SIG	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1856	<i>Pimephales promelas</i>	7784465	9.6	LOEC/BCM/CHG/SIG	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1857	<i>Pimephales promelas</i>	7784465	9.6	LOEC/BCM/CHG/SIG	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1858	<i>Pimephales promelas</i>	7784465	9.6	LOEC/BCM/CHG/SIG	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1859	<i>Pimephales promelas</i>	7784465	9.6	LOEC/BCM/CHG/SIG	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
8	1949	<i>Pimephales promelas</i>	7784465	8.78	/MOR//	embryo, < 24 h	LAB/F/S	29	48.1	7.65	24.4	acidity, conductivity 81 131 umhoscm	10695
8	1950	<i>Pimephales promelas</i>	7784465	4.3	/GRO//	embryo, < 24 h	LAB/F/S	29	48.1	7.65	24.4	acidity, conductivity 81 131 umhoscm	10695
8	1951	<i>Pimephales promelas</i>	7784465	2.13	/GRO//	embryo, < 24 h	LAB/F/S	29	48.1	7.65	24.4	acidity, conductivity 81 131 umhoscm	10695
8	1896	<i>Salvelinus fontinalis</i>	7784465	25.8	LC50/MOR//	adult, 18 mo, 200.0 mm 84.7 g	LAB/F/S	3.88	152	7.75	15.1		838
8	1897	<i>Salvelinus fontinalis</i>	7784465	20	LC50/MOR//	adult, 18 mo, 200.0 mm 84.7 g	LAB/F/S	6	152	7.75	15.1		838
8	1898	<i>Salvelinus fontinalis</i>	7784465	19.4	LC50/MOR//	adult, 18 mo, 200.0 mm 84.7 g	LAB/F/S	6.83	152	7.75	15.1		838
8	1899	<i>Salvelinus fontinalis</i>	7784465	18	LC50/MOR//	adult, 18 mo, 200.0 mm 84.7 g	LAB/F/S	10.92	152	7.75	15.1		838
9	Vertebrates exposed to arsenic at >15degC over 1-3 days exposure												

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
9	1189	<i>Barbus javanicus</i>	1327533	26.38	LC50/MOR//	15-17 cm, 55-65 g	LAB/S/I	3	218.5	7.15	23		4456
9	1192	<i>Barbus javanicus</i>	1327533	28.5	LC50/MOR//	15-17 cm, 55-65 g	LAB/S/I	2	218.5	7.15	23		4456
9	1458	<i>Carassius auratus</i>	7631892	0.1	/BEH//	4-8 cm	LAB/S/S	2		6.45	23	conductance (15-18)e+6 ohms, 50 ppm caco3 added	908
9	1659	<i>Carassius auratus</i>	7784465	60.8	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	1.5	148	7.61	25.1		838
9	1660	<i>Carassius auratus</i>	7784465	54.6	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	2	148	7.61	25.1		838
9	1661	<i>Carassius auratus</i>	7784465	50	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	3	148	7.61	25.1		838
9	1362	<i>Catostomus latipinnis</i>	7631892	33.1	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	2	144	7.65	25		18979
9	1363	<i>Catostomus latipinnis</i>	7631892	33.1	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	3	144	7.65	25		18979
9	1199	<i>Colisa fasciata</i>	1327533	10.61	LC50/MOR//	fingerling, 39 cm, 384 mg	LAB/S/S	2		7.1	29.6	conductivity 510 umhocm	15922
9	1200	<i>Colisa fasciata</i>	1327533	7.631	LC50/MOR//	fingerling, 39 cm, 384 mg	LAB/S/S	3		7.1	29.6	conductivity 510 umhocm	15922
9	1933	<i>Gnathonemus petersi</i>	7784465	12	/PHY//	juvenile, 5-20 g	LAB/F/I	1.17		8	27	conductivity 295 umhocm	10685
9	1758	<i>Jordanella floridae</i>	7784465	16.2	LC50/MOR//	fry	LAB/F/I	2	48.1	7.65	24.4	acidity, conductivity 81 131 umhoscm	10695
9	1759	<i>Jordanella floridae</i>	7784465	15.9	LC50/MOR//	fry	LAB/F/I	3	48.1	7.65	24.4	acidity, conductivity 81 131 umhoscm	10695
9	1771	<i>Lepomis macrochirus</i>	7784465	19.3	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	3	209.35	7.75	24	see paper	2135
9	1772	<i>Lepomis macrochirus</i>	7784465	20.1	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	3	366.8	7.85	24	see paper	2135
9	1777	<i>Lepomis macrochirus</i>	7784465	26.8	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	2	52.35	7.65	24	see paper	2135
9	1778	<i>Lepomis macrochirus</i>	7784465	25.5	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	2	209.35	7.75	24	see paper	2135
9	1779	<i>Lepomis macrochirus</i>	7784465	26.5	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	2	366.8	7.85	24	see paper	2135
9	1780	<i>Lepomis macrochirus</i>	7784465	21	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	3	52.35	7.65	24	see paper	2135

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
9	1785	<i>Lepomis macrochirus</i>	7784465	60.8	LC50/MOR//	juvenile, 6 mo, 66.4 mm, 2.4 g	LAB/F/S	1.79	140	7.98	24.9		838
9	1786	<i>Lepomis macrochirus</i>	7784465	56.9	LC50/MOR//	juvenile, 6 mo, 66.4 mm, 2.4 g	LAB/F/S	2	140	7.98	24.9		838
9	1787	<i>Lepomis macrochirus</i>	7784465	47.5	LC50/MOR//	juvenile, 6 mo, 66.4 mm, 2.4 g	LAB/F/S	2.79	140	7.98	24.9		838
9	1227	<i>Mystus vittatus</i>	1327533	25.82	LC50/MOR//	9-11 cm, 15-18 g	LAB/S/I	2	218.5	7.15	23		4456
9	1228	<i>Mystus vittatus</i>	1327533	22.13	LC50/MOR//	9-11 cm, 15-18 g	LAB/S/I	3	218.5	7.15	23		4456
9	1231	<i>Notopterus notopterus</i>	1327533	20.64	LC50/MOR//	24 cm, 155 g	LAB/S/I	2	216.5	6.5	20		3440
9	1232	<i>Notopterus notopterus</i>	1327533	25.83	LC50/MOR//	24 cm, 155 g	LAB/S/I	3	216.5	6.5	20		3440
9	1186	<i>Pimephales promelas</i>	1303339	392.4	LC50/MOR//	3.2-4.2 cm	LAB/S/S	2	44	7.55	22	conductivity 120-160 uohm	875
9	1832	<i>Pimephales promelas</i>	7784465	15.9	LC50/MOR//	fry	LAB/F/I	2	48.1	7.65	24.4	acidity, conductivity 81 131 umhoscm	10695
9	1833	<i>Pimephales promelas</i>	7784465	14.7	LC50/MOR//	fry	LAB/F/I	3	48.1	7.65	24.4	acidity, conductivity 81 131 umhoscm	10695
9	1839	<i>Pimephales promelas</i>	7784465	31.3	LC50/MOR//	juvenile, 3 mo, 21.0 mm, 0.085 g	LAB/F/S	2	149	7.77	25		838
9	1840	<i>Pimephales promelas</i>	7784465	29.2	LC50/MOR//	juvenile, 3 mo, 21.0 mm, 0.085 g	LAB/F/S	3	149	7.77	25		838
9	1893	<i>Salvelinus fontinalis</i>	7784465	40.8	LC50/MOR//	adult, 18 mo, 200.0 mm 84.7 g	LAB/F/S	1.25	152	7.75	15.1		838
9	1894	<i>Salvelinus fontinalis</i>	7784465	42.2	LC50/MOR//	adult, 18 mo, 200.0 mm 84.7 g	LAB/F/S	1.29	152	7.75	15.1		838
9	1895	<i>Salvelinus fontinalis</i>	7784465	27.8	LC50/MOR//	adult, 18 mo, 200.0 mm 84.7 g	LAB/F/S	2	152	7.75	15.1		838
10	Vertebrates exposed to arsenic at >15degC over <=1 day exposure												
10	1191	<i>Barbus javanicus</i>	1327533	30.9	LC50/MOR//	15-17 cm, 55-65 g	LAB/S/I	1	218.5	7.15	23		4456
10	1656	<i>Carassius auratus</i>	7784465	211.2	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	0.25	148	7.61	25.1		838
10	1657	<i>Carassius auratus</i>	7784465	103.1	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	0.75	148	7.61	25.1		838
10	1658	<i>Carassius auratus</i>	7784465	89.6	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	1	148	7.61	25.1		838
10	1361	<i>Catostomus latipinnis</i>	7631892	33.1	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	1	144	7.65	25		18979

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
10	1198	<i>Colisa fasciata</i>	1327533	12.16	LC50/MOR//	fingerling, 39 cm, 384 mg	LAB/S/S	1		7.1	29.6	conductivity 510 umhocm	15922
10	1757	<i>Jordanella floridae</i>	7784465	18.3	LC50/MOR//	fry	LAB/F/I	1	48.1	7.65	24.4	acidity, conductivity 81 131 umhoscm	10695
10	1937	<i>Lepomis cyanellus</i>	7784465	12.5	/AVO//	108.4(67-168) mm	LAB/S/S	0.01		7.2	22.8	some organisms pre-exposed	2423
10	1766	<i>Lepomis macrochirus</i>	7784465	78.6	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	0.25	52.35	7.65	24	see paper	2135
10	1767	<i>Lepomis macrochirus</i>	7784465	87.8	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	0.25	209.35	7.75	24	see paper	2135
10	1768	<i>Lepomis macrochirus</i>	7784465	75.7	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	0.25	366.8	7.85	24	see paper	2135
10	1769	<i>Lepomis macrochirus</i>	7784465	32.9	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	1	52.35	7.65	24	see paper	2135
10	1770	<i>Lepomis macrochirus</i>	7784465	37	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	1	209.35	7.65	24	see paper	2135
10	1776	<i>Lepomis macrochirus</i>	7784465	36	LC50/MOR//	44.0 mm, 0.53 gm	LAB/S/S	1	366.8	7.85	24	see paper	2135
10	1226	<i>Mystus vittatus</i>	1327533	29.62	LC50/MOR//	9-11 cm, 15-18 g	LAB/S/I	1	218.5	7.15	23		4456
10	1230	<i>Notopterus notopterus</i>	1327533	16.03	LC50/MOR//	24 cm, 155 g	LAB/S/I	1	216.5	6.5	20		3440
10	1946	<i>Oryzias latipes</i>	7784465	50.5	/MOR//	fry, 8 d	LAB/S/S	1	10.5	6.9	25		12151
10	1560	<i>Phoxinus phoxinus</i>	7778430	1000	LT50/MOR/INC/	6.5 cm, 1.6 g	LAB/S/C	0.29		7.8	21.5		10020
10	1176	<i>Pimephales promelas</i>	1303282	73.5	NR-LETH/MOR//	0-48 h, embryo	LAB/F/S	1	46.5	7.35	25		3687
10	1831	<i>Pimephales promelas</i>	7784465	18.9	LC50/MOR//	fry	LAB/F/I	1	48.1	7.65	24.4	acidity, conductivity 81 131 umhoscm	10695
10	1836	<i>Pimephales promelas</i>	7784465	45.3	LC50/MOR//	juvenile, 3 mo, 21.0 mm, 0.085 g	LAB/F/S	0.58	149	7.77	25		838
10	1837	<i>Pimephales promelas</i>	7784465	41.7	LC50/MOR//	juvenile, 3 mo, 21.0 mm, 0.085 g	LAB/F/S	0.67	149	7.77	25		838
10	1838	<i>Pimephales promelas</i>	7784465	36.2	LC50/MOR//	juvenile, 3 mo, 21.0 mm, 0.085 g	LAB/F/S	1	149	7.77	25		838
10	1567	<i>Rhodeus sericeus amarus</i>	7778430	766	LT50/MOR/INC/	5.4 cm, 1 g	LAB/S/C	0.32		8	18		10020
10	1891	<i>Salvelinus fontinalis</i>	7784465	54.1	LC50/MOR//	adult, 18 mo, 200.0 mm 84.7 g	LAB/F/S	0.92	152	7.75	15.1		838

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
10	1892	<i>Salvelinus fontinalis</i>	7784465	53.9	LC50/MOR//	adult, 18 mo, 200.0 mm 84.7 g	LAB/F/S	1	152	7.75	15.1	838	
11	Arthropods exposed to cadmium in moderately hard water at <15degC over 3-30 days exposure												
11	3140	<i>Asellus</i>	10108642	0.56	LC50/MOR/INC/	asellus cavaticus	LAB//	4	103.2	6	12	3100	
11	3141	<i>Asellus</i>	10108642	0.5	LC50/MOR/INC/	asellus cavaticus	LAB//	4	103.2	7	12	3100	
11	3142	<i>Asellus</i>	10108642	0.5	LC50/MOR/INC/	asellus cavaticus	LAB//	4	103.2	8	12	3100	
11	2181	<i>Asellus aquaticus</i>	7440439	2	LC50/MOR//	embryo, stage c	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2182	<i>Asellus aquaticus</i>	7440439	1.75	LC50/MOR//	embryo, stage c	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2183	<i>Asellus aquaticus</i>	7440439	0.3	LC50/MOR//	embryo, stage d	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2184	<i>Asellus aquaticus</i>	7440439	0.24	LC50/MOR//	embryo, stage d	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2185	<i>Asellus aquaticus</i>	7440439	0.08	LC50/MOR//	juvenile, 30 d, 1.35 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2186	<i>Asellus aquaticus</i>	7440439	0.053	LC50/MOR//	juvenile, 30 d, 1.35 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2187	<i>Asellus aquaticus</i>	7440439	0.17	LC50/MOR//	juvenile, 1.60 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2188	<i>Asellus aquaticus</i>	7440439	0.15	LC50/MOR//	juvenile, 1.60 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2189	<i>Asellus aquaticus</i>	7440439	0.175	LC50/MOR//	juvenile, 2.30 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2190	<i>Asellus aquaticus</i>	7440439	0.17	LC50/MOR//	juvenile, 2.30 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2191	<i>Asellus aquaticus</i>	7440439	0.32	LC50/MOR//	juvenile, 3.52 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2192	<i>Asellus aquaticus</i>	7440439	0.23	LC50/MOR//	juvenile, 3.52 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2193	<i>Asellus aquaticus</i>	7440439	0.54	LC50/MOR//	juvenile, 5.92 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2194	<i>Asellus aquaticus</i>	7440439	0.45	LC50/MOR//	juvenile, 5.92 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2195	<i>Asellus aquaticus</i>	7440439	1	LC50/MOR//	adult, 9.87 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
11	2196	<i>Asellus aquaticus</i>	7440439	0.6	LC50/MOR/INC/	adult, 9.87 mm	LAB/R/I	4	104.8	7.83	11	11953	
11	3686	<i>Daphnia magna</i>	10108642	0.051	LC50/MOR/INC/	72-120 h	LAB/S/I	4	76.8	7.8	15	nemadji river water	3690
11	3687	<i>Daphnia magna</i>	10108642	0.1	LC50/MOR/INC/	72-120 h	LAB/S/I	4	68	7.6	15	little pokegama river water	3690

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
11	4131	<i>Gammarus pseudolimnaeus</i>	10108642	0.049	LC50/MOR/INC/		LAB/S/I	4	76.8	7.8	15	nemadji river water	3690
11	4132	<i>Gammarus pseudolimnaeus</i>	10108642	0.062	LC50/MOR/INC/		LAB/S/I	4	68	7.6	15	little pokegama river water	3690
11	4141	<i>Gammarus pulex</i>	10108642	0.018	LC50/MOR//	mature, 8-10 mm, immediate post-hat	LAB/S/S	4	113.9	7.7	12.5	conductivity	9639
11	4144	<i>Gammarus pulex</i>	10108642	1.17	LC50/MOR//	mature, 8-10 mm, intermolt stage	LAB/S/S	4	113.9	7.7	12.5	conductivity	9639
11	4147	<i>Gammarus pulex</i>	10108642	0.05	LC50/MOR//	mature, 8-11 mm	LAB/R/S	4	117.4	7.36	11.8	conductivity	2335
11	4151	<i>Gammarus pulex</i>	10108642	0.013	LC50/MOR//	females with stage 2-6 eggs or	LAB/R/S	4	94.6	7.7	11	conductivity	13156
11	4153	<i>Gammarus pulex</i>	10108642	0.02	LC50/MOR//	sexually mature males	LAB/R/S	4	94.6	7.7	11	conductivity	13156
11	6248	<i>Gammarus pulex</i>	10108642	0.3	/FDB//	mature, 8-11 mm	LAB/R/S	4	117.4	7.36	11.8	conductivity	2335
11	6249	<i>Gammarus pulex</i>	10108642	0.03	/FDB//	mature, 8-11 mm	LAB/R/S	4	117.4	7.36	11.8	conductivity	2335
11	4221	<i>Hyalella azteca</i>	10108642	0.12	LC50/MOR/INC/		LAB/S/I	4	76.8	7.8	15	nemadji river water	3690
11	4222	<i>Hyalella azteca</i>	10108642	0.052	LC50/MOR/INC/		LAB/S/I	4	68	7.6	15	little pokegama river water	3690
11	4223	<i>Hyalella azteca</i>	10108642	0.285	LC50/MOR//	0.001 g	LAB/S/I	4	67	7.5	7	conductivity 104-165 umhoscm, complete dilution water	10485
11	5018	<i>Paraleptophlebia praepedita</i>	10108642	0.449	LC50/MOR//	0.002 g	LAB/S/I	4	67	7.5	12	conductivity 104-165 umhoscm, complete dilution water	10485
12	Arthropods exposed to cadmium in moderately hard water at >15degC over 3-30 days exposure												
12	2203	<i>Asellus aquaticus</i>	7440439	0.16	LC50/MOR/INC/	4-6 mm	LAB/R/C	4	87	6.9	16		14932
12	2204	<i>Asellus aquaticus</i>	7440439	0.0968	LC50/MOR/INC/		LAB/R/C	6	87	6.9	16	fed	14932
12	2205	<i>Asellus aquaticus</i>	7440439	0.0878	LC50/MOR/INC/		LAB/R/C	6	87	6.9	16	starved	14932
12	2206	<i>Asellus aquaticus</i>	7440439	0.0758	LC50/MOR/INC/		LAB/R/C	10	87	6.9	16	fed	14932
12	2207	<i>Asellus aquaticus</i>	7440439	0.061	LC50/MOR/INC/		LAB/R/C	15	87	6.9	16	fed	14932
12	2208	<i>Asellus aquaticus</i>	7440439	0.049	LC50/MOR/INC/		LAB/R/C	20	87	6.9	16	fed	14932
12	2209	<i>Asellus aquaticus</i>	7440439	0.042	LC50/MOR/INC/		LAB/R/C	25	87	6.9	16	fed	14932
12	2210	<i>Asellus aquaticus</i>	7440439	0.04	LC50/MOR/INC/		LAB/R/C	30	87	6.9	16	fed	14932
12	2213	<i>Asellus aquaticus</i>	7440439	0.0538	LC50/MOR/INC/		LAB/R/C	10	87	6.9	16	starved	14932
12	2214	<i>Asellus aquaticus</i>	7440439	0.0464	LC50/MOR/INC/		LAB/R/C	15	87	6.9	16	starved	14932
12	2215	<i>Asellus aquaticus</i>	7440439	0.0387	LC50/MOR/INC/		LAB/R/C	20	87	6.9	16	starved	14932
12	2216	<i>Asellus aquaticus</i>	7440439	0.0369	LC50/MOR/INC/		LAB/R/C	25	87	6.9	16	starved	14932

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
12	2217	<i>Asellus aquaticus</i>	7440439	0.033	LC50/MOR/INC/		LAB/R/C	30	87	6.9	16	starved	14932
12	2587	<i>Asellus aquaticus</i>	7440439	0.06	/BEH/CHG/MULT	4-6 mm	LAB/R/C	14.58	87	6.9	16	starved and fed	14932
12	2829	<i>Chironomus thummi</i>	7440439	0.15	/MOR//	first-third instar larvae	LAB/R/S	17	98	7.6	20	conductivity 263 umhos/cm	9627
12	2830	<i>Chironomus thummi</i>	7440439	0.15	/DVP//	first-third instar larvae	LAB/R/S	14	98	7.6	20	conductivity 263 umhos/cm	9627
12	2831	<i>Chironomus thummi</i>	7440439	0.15	/GRO//	first-third instar larvae	LAB/R/S	17	98	7.6	20	conductivity 263 umhos/cm	9627
12	2832	<i>Chironomus thummi</i>	7440439	0.0758	/DVP//	male, female	LAB/R/S	12	98	7.6	20	conductivity 263 umhos/cm	9627
12	3807	<i>Daphnia magna</i>	10108642	0.0127	LC50/MOR/INC/	2-3 wk	LAB/S/C	4	78	7.6	21.8	pond water	18420
12	3808	<i>Daphnia magna</i>	10108642	0.0099	LC50/MOR/INC/	2-3 wk	LAB/S/C	7	78	7.6	21.8	pond water	18420
12	3809	<i>Daphnia magna</i>	10108642	0.009	LC50/MOR/INC/	2-3 wk	LAB/S/C	10	78	7.6	21.8	pond water	18420
12	3810	<i>Daphnia magna</i>	10108642	0.0086	LC50/MOR/INC/	2-3 wk	LAB/S/C	14	78	7.6	21.8	pond water	18420
12	3851	<i>Daphnia magna</i>	10108642	0.01	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	7	78	7.6	21.8	pond water	18420
12	3852	<i>Daphnia magna</i>	10108642	0.01	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	10	78	7.6	21.8	pond water	18420
12	3853	<i>Daphnia magna</i>	10108642	0.01	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	14	78	7.6	21.8	pond water	18420
12	3861	<i>Daphnia magna</i>	10108642	0.005	NOEC/MOR/NEF/NOSIG	2-3 wk	LAB/S/C	7	78	7.6	21.8	pond water	18420
12	3862	<i>Daphnia magna</i>	10108642	0.005	NOEC/MOR/NEF/NOSIG	2-3 wk	LAB/S/C	10	78	7.6	21.8	pond water	18420
12	3863	<i>Daphnia magna</i>	10108642	0.005	NOEC/MOR/NEF/NOSIG	2-3 wk	LAB/S/C	14	78	7.6	21.8	pond water	18420
12	5642	<i>Daphnia magna</i>	10108642	0.015	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	7	78	7.6	21.8	pond water	18420
12	5643	<i>Daphnia magna</i>	10108642	0.015	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	10	78	7.6	21.8	pond water	18420
12	5644	<i>Daphnia magna</i>	10108642	0.015	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	14	78	7.6	21.8	pond water	18420
12	4133	<i>Gammarus pseudolimnaeus</i>	10108642	0.0544	LC50/MOR//	0.1 g	LAB/S/I	4	67	7.5	17	conductivity 104-165 umhos/cm, complete dilution waterscr	10485
12	2427	<i>Hexagenia rigida</i>	7440439	6.2	LC50/MOR//	yearling, nymphs, 24 mm	LAB/S/S	4	79.1	7.96	18	conductivity, cl, so4, na, k, ca, mg	2091
12	4450	<i>Moina macrocopa</i>	10108642	0.0008	EC50/REP//	36 h, female	LAB/R/I	20	82	7.5	23		3619
12	4461	<i>Moina macrocopa</i>	10108642	0.0012	LT50/MOR//	female, 36 h	LAB/R/I	10.4	82	7.5	23		3619
12	4462	<i>Moina macrocopa</i>	10108642	0.0004	LT50/MOR//	female, 36 h	LAB/R/I	12	82	7.5	23		3619
12	4463	<i>Moina macrocopa</i>	10108642	0.0008	LT50/MOR//	female, 36 h	LAB/R/I	12.2	82	7.5	23		3619
12	4464	<i>Moina macrocopa</i>	10108642	0.0016	LT50/MOR//	female, 36 h	LAB/R/U	14	82	7.5	23		3619
12	4465	<i>Moina macrocopa</i>	10108642	0.0002	LT50/MOR//	female, 36 h	LAB/R/U	15	82	7.5	23		3619
12	5723	<i>Moina macrocopa</i>	10108642		/MOR/CHG/		LAB/FD/C	8.5	82	7.5	23		16171
12	5724	<i>Moina macrocopa</i>	10108642		/REP/CHG/MULT		LAB/FD/C	9.5	82	7.5	28		16171
12	6344	<i>Moina macrocopa</i>	10108642	0.0004	/REP//	female, 36 h	LAB/R/S	20	82	7.5	23		3619

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
12	6345	<i>Moina macrocopa</i>	10108642	0.0002	/REP//	female, 36 h	LAB/R/S	20	82	7.5	23		3619
12	6348	<i>Moina macrocopa</i>	10108642		/MPH/CHG/		LAB/FD/C	8	82	7.5	23		16171
12	6349	<i>Moina macrocopa</i>	10108642		/REP/CHG/		LAB/FD/C	9.5	82	7.5	28		16171
12	6350	<i>Moina macrocopa</i>	10108642		/REP/CHG/		LAB/FD/C	9.5	82	7.5	28		16171
12	6351	<i>Moina macrocopa</i>	10108642		/POP/CHG/		LAB/FD/C	9.5	82	7.5	28		16171
12	6352	<i>Moina macrocopa</i>	10108642		/POP/DEC/		LAB/FD/C	9.5	82	7.5	28		16171
12	5294	<i>Ranatra elongata</i>	10108642	0.288	LC50/MOR/INC/		LAB//C	4	112.4	7.5	26		11919
13	Arthropods exposed to cadmium in moderately hard water at >15degC over 1-3 days exposure												
13	3333	<i>Ceriodaphnia reticulata</i>	10108642	0.129	LC50/MOR//	< 1 d	LAB/S/I	2	67	7.5	20	conductivity 104-165 umhos/cm, complete dilution water go	10485
13	3395	<i>Chydorus sphaericus</i>	10108642	0.149	LC50/ITX/INC/	adult, >0.30 mm	LAB/S/S	2	83.6	6.66	18	organism from polluted lake, eutrophic level	4258
13	3398	<i>Chydorus sphaericus</i>	10108642	0.277	LC50/ITX/INC/	juvenile, <0.30 mm	LAB/S/S	2	83.6	6.66	18	organism from polluted lake, eutrophic level	4258
13	3593	<i>Daphnia magna</i>	10108642	0.146	LC50/ITX//	1 d	LAB/S/I	2	74	7.3	20		12311
13	3594	<i>Daphnia magna</i>	10108642	0.055	LC50/ITX//	2 d	LAB/S/I	2	76	7.3	20		12311
13	3608	<i>Daphnia magna</i>	10108642	0.059	LC50/ITX//	<4 h	LAB/S/I	2	76	7.3	20		12311
13	3609	<i>Daphnia magna</i>	10108642	0.084	LC50/ITX//	<4 h	LAB/S/I	2	74	7.3	20		12311
13	3612	<i>Daphnia magna</i>	10108642	0.071	LC50/ITX//	<4 h	LAB/S/I	2	76	7.3	20	tested in 1000 ml beaker	12311
13	3613	<i>Daphnia magna</i>	10108642	0.178	LC50/ITX//	<4 h	LAB/S/I	2	74	7.3	20		12311
13	3614	<i>Daphnia magna</i>	10108642	0.116	LC50/ITX//	<4 h	LAB/S/I	2	74	7.3	20		12311
13	3615	<i>Daphnia magna</i>	10108642	0.101	LC50/ITX//	<4 h	LAB/S/I	2	71	7.3	20		12311
13	3616	<i>Daphnia magna</i>	10108642	0.004	LC50/ITX//	1 d	LAB/S/I	2	71	7.3	20		12311
13	3619	<i>Daphnia magna</i>	10108642	0.094	LC50/ITX//	2 d	LAB/S/I	2	74	7.3	20		12311
13	3620	<i>Daphnia magna</i>	10108642	0.277	LC50/ITX//	2 d	LAB/S/I	2	74	7.3	20		12311
13	3621	<i>Daphnia magna</i>	10108642	0.135	LC50/ITX//	2 d	LAB/S/I	2	71	7.3	20		12311
13	3622	<i>Daphnia magna</i>	10108642	0.017	LC50/ITX//	5 d	LAB/S/I	2	76	7.3	20		12311
13	3623	<i>Daphnia magna</i>	10108642	0.04	LC50/ITX//	5 d	LAB/S/I	2	74	7.3	20		12311
13	3627	<i>Daphnia magna</i>	10108642	0.025	LC50/ITX//	5 d	LAB/S/I	2	76	7.3	20		12311
13	3628	<i>Daphnia magna</i>	10108642	0.036	LC50/ITX//	5 d	LAB/S/I	2	74	7.3	20		12311
13	3629	<i>Daphnia magna</i>	10108642	0.018	LC50/ITX//	5 d	LAB/S/I	2	71	7.3	20		12311
13	3630	<i>Daphnia magna</i>	10108642	0.306	LC50/ITX//	2 d	LAB/S/I	2	74	7.3	20		12311
13	3633	<i>Daphnia magna</i>	10108642	0.037	LC50/ITX//	2 d	LAB/S/I	2	76	7.3	20		12311

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
13	3692	<i>Daphnia magna</i>	10108642	0.166	LC50/MOR//	< 1 d	LAB/S/I	2	67	7.5	20	conductivity 104-165 umhos/cm, complete dilution waterscr	10485
13	3797	<i>Daphnia magna</i>	10108642	0.034	LC50/MOR//	< 1 d	LAB/S/I	2	105	8	18.5	water parameters rpt	3621
13	3806	<i>Daphnia magna</i>	10108642	0.0264	LC50/MOR/INC/	2-3 wk	LAB/S/C	2	78	7.6	21.8	pond water	18420
13	3833	<i>Daphnia magna</i>	10108642	0.066	LC50/MOR/INC/	clone 5, neonate, <24 h >=third	LAB/S/	2	118	7.7	22.2		20667
13	3834	<i>Daphnia magna</i>	10108642	0.069	LC50/MOR/INC/	clone 5, neonate, <24 h >=third	LAB/S/	2	118	7.7	22.2		20667
13	3870	<i>Daphnia magna</i>	10108642	0.039	NOEC/MOR/INC/NOSIG	clone 5, neonate, <24 h >=third	LAB/S/	2	118	7.7	22.2		20667
13	3871	<i>Daphnia magna</i>	10108642	0.05	NOEC/MOR/INC/NOSIG	clone 5, neonate, <24 h >=third	LAB/S/	2	118	7.7	22.2		20667
13	6893	<i>Daphnia magna</i>	10124364	0.106	LC50/MOR/INC/	neonates, clone s-1	LAB/S/C	2	90.7	7.73	20		19146
13	6894	<i>Daphnia magna</i>	10124364	0.0234	LC50/MOR/INC/	neonates, clone a	LAB/S/C	2	90.7	7.73	20		19146
13	7459	<i>Macrobrachium rosenbergii</i>	10124364	0.035	/BEH//	2.4-5.16 g, juvenile	LAB/R/S	2.5	92.45	7.5	20		8078
13	4453	<i>Moina macrocopa</i>	10108642	0.042	LC50/MOR//	2 d	LAB/S/I	2	82	7.5	22		3619
13	4454	<i>Moina macrocopa</i>	10108642	0.083	LC50/MOR//	2 d	LAB/S/I	2	82	7.5	22		3619
13	4455	<i>Moina macrocopa</i>	10108642	0.076	LC50/MOR//	2 d	LAB/S/I	2	82	7.5	22		3619
13	4456	<i>Moina macrocopa</i>	10108642	0.084	LC50/MOR//	2 d	LAB/S/I	2	82	7.5	22		3619
13	4457	<i>Moina macrocopa</i>	10108642	0.027	LC50/MOR//	2 d	LAB/S/I	3	82	7.5	22		3619
13	4458	<i>Moina macrocopa</i>	10108642	0.03	LC50/MOR//	2 d	LAB/S/I	3	82	7.5	22		3619
13	4459	<i>Moina macrocopa</i>	10108642	0.029	LC50/MOR//	2 d	LAB/S/I	3	82	7.5	22		3619
13	4460	<i>Moina macrocopa</i>	10108642	0.026	LC50/MOR//	2 d	LAB/S/I	3	82	7.5	22		3619
13	5296	<i>Ranatra elongata</i>	10108642	0.438	LC50/MOR/INC/		LAB//C	2	112.4	7.5	26		11919
13	5297	<i>Ranatra elongata</i>	10108642	0.355	LC50/MOR/INC/		LAB//C	3	112.4	7.5	26		11919
13	5355	<i>Simocephalus serrulatus</i>	10108642	0.123	LC50/MOR//	< 1 d	LAB/S/I	2	67	7.5	20	conductivity 104-165 umhos/cm, complete dilution waters	10485
13	5357	<i>Simocephalus vetulus</i>	10108642	0.0893	LC50/MOR//	< 1 d	LAB/S/I	2	67	7.5	20	conductivity 104-165 umhos/cm, complete dilution waterress	10485
14	Arthropods exposed to cadmium in soft water at <15degC over 3-30 days exposure												

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
14	3130	<i>Asellus aquaticus</i>	10108642	1.32	LC50/ITX//	adult, 7 mm, 1.5 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
14	3436	<i>Crangonyx pseudogracilis</i>	10108642	1.7	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
14	4068	<i>Ephemera</i>	10108642	0.003	LC50/ITX//	5-8 mm	LAB/F/I	28	46	7.4	15		2104
14	4069	<i>Ephemera</i>	10108642	0.003	LOEC/ITX//	5-8 mm	LAB/F/I	28	45	7.4	15		2104
14	4130	<i>Gammarus pseudolimnaeus</i>	10108642	0.022	LC50/MOR/INC/		LAB/S/I	4	47.4	7.5	15	lake superior water	3690
14	4219	<i>Hyalella azteca</i>	10108642	0.023	LC50/MOR/INC/		LAB/S/I	4	47.4	7.5	15	lake superior water	3690
14	4220	<i>Hyalella azteca</i>	10108642	0.05	LC50/MOR/INC/		LAB/S/I	4	47.4	7.5	15	lake superior water	3690
14	6273	<i>Hydropsyche betteni</i>	10108642	0.1618	/BEH//	5-8 mm	LAB/F/S	28	46	7.4	15		2104
15	Arthropods exposed to cadmium in soft water at >15degC over 3-30 days exposure												
15	3094	<i>Amphipoda</i>	10108642	0.061	LC50/ITX/INC/	1-4 mm, chaetocorophium lucasi	LAB//	4	10	7.6	20	waihou river water	15048
15	3279	<i>Ceriodaphnia dubia</i>	10108642	0.0169	LC50/MOR/INC/	2-3 wk	LAB/S/C	4	17	6.6	22		18420
15	3280	<i>Ceriodaphnia dubia</i>	10108642	0.0116	LC50/MOR/INC/	2-3 wk	LAB/S/C	7	17	6.6	22		18420
15	3281	<i>Ceriodaphnia dubia</i>	10108642	0.0106	LC50/MOR/INC/	2-3 wk	LAB/S/C	10	17	6.6	22		18420
15	3282	<i>Ceriodaphnia dubia</i>	10108642	0.0101	LC50/MOR/INC/	2-3 wk	LAB/S/C	14	17	6.6	22		18420
15	3289	<i>Ceriodaphnia dubia</i>	10108642	0.013	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
15	3290	<i>Ceriodaphnia dubia</i>	10108642	0.004	LOEC/REP/DEC/SIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
15	3291	<i>Ceriodaphnia dubia</i>	10108642	0.013	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
15	3292	<i>Ceriodaphnia dubia</i>	10108642	0.004	LOEC/REP/DEC/SIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
15	3293	<i>Ceriodaphnia dubia</i>	10108642	0.013	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
15	3294	<i>Ceriodaphnia dubia</i>	10108642	0.004	LOEC/REP/DEC/SIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
15	3311	<i>Ceriodaphnia dubia</i>	10108642	0.01	NOEC/MOR/INC/NOSIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
15	3312	<i>Ceriodaphnia dubia</i>	10108642	0.001	NOEC/REP/NEF/NOSIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
15	3313	<i>Ceriodaphnia dubia</i>	10108642	0.01	NOEC/MOR/INC/NOSIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
15	3314	<i>Ceriodaphnia dubia</i>	10108642	0.001	NOEC/REP/NEF/NOSIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
15	3315	<i>Ceriodaphnia dubia</i>	10108642	0.01	NOEC/MOR/INC/NOSIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
15	3316	<i>Ceriodaphnia dubia</i>	10108642	0.001	NOEC/REP/NEF/NOSIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
15	5555	<i>Ceriodaphnia dubia</i>	10108642	0.016	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	14	17	6.6	22		18420
15	6783	<i>Ceriodaphnia reticulata</i>	10124364	0.82	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
15	5561	<i>Chaoborus punctipennis</i>	10108642	0.55	/BCM/CHG/MULT	90-130 mm	LAB/R/C	4	10.49	6.3	27		16833
15	2277	<i>Chironomus</i>	7440439	1.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
15	3354	<i>Chironomus tentans</i>	10108642	8	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	4	17	6.6	22		18420

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
15	3355	<i>Chironomus tentans</i>	10108642	1.7	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	7	17	6.6	22		18420
15	3356	<i>Chironomus tentans</i>	10108642	0.963	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
15	3357	<i>Chironomus tentans</i>	10108642	0.635	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
15	3358	<i>Chironomus tentans</i>	10108642	1	LOEC/MOR/INC/SIG	2nd instar larvae, 10 d	LAB/S/C	7	17	6.6	22		18420
15	3359	<i>Chironomus tentans</i>	10108642	0.5	LOEC/GRO/DEC/SIG	2nd instar larvae, 10 d	LAB/S/C	7	17	6.6	22		18420
15	3360	<i>Chironomus tentans</i>	10108642	0.5	LOEC/MOR/INC/SIG	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
15	3361	<i>Chironomus tentans</i>	10108642	0.5	LOEC/GRO/DEC/SIG	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
15	3362	<i>Chironomus tentans</i>	10108642	1	LOEC/MOR/INC/SIG	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
15	3363	<i>Chironomus tentans</i>	10108642	0.1	LOEC/GRO/DEC/SIG	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
15	3364	<i>Chironomus tentans</i>	10108642	0.5	NOEC/MOR/NEF/NOSIG	2nd instar larvae, 10 d	LAB/S/C	7	17	6.6	22		18420
15	3365	<i>Chironomus tentans</i>	10108642	0.5	NOEC/GRO/NEF/NOSIG	2nd instar larvae, 10 d	LAB/S/C	7	17	6.6	22		18420
15	3366	<i>Chironomus tentans</i>	10108642	0.5	NOEC/MOR/INC/NOSIG	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
15	3367	<i>Chironomus tentans</i>	10108642	0.5	NOEC/GRO/NEF/NOSIG	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
15	3368	<i>Chironomus tentans</i>	10108642	0.5	NOEC/MOR/NEF/NOSIG	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
15	3369	<i>Chironomus tentans</i>	10108642	0.1	NOEC/GRO/NEF/NOSIG	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
15	5572	<i>Chironomus tentans</i>	10108642	0.0025	NR-LETH/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
15	5573	<i>Chironomus tentans</i>	10108642	0.002	NR-LETH/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
15	3428	<i>Copepoda</i>	10108642	0.047	LC50/MOR/INC/	4 species	LAB/R/C	4	20	6.4	23		18172
15	3429	<i>Copepoda</i>	10108642	0.051	LC50/MOR/INC/	4 species	LAB/R/C	4	20	6.4	23		18172
15	5602	<i>Copepoda</i>	10108642	0.056	NR-LETH/MOR/INC/	4 species	LAB/R/C	4	20	6.4	23		18172
15	5603	<i>Copepoda</i>	10108642	0.01	NR-ZERO/MOR/NEF/	4 species	LAB/R/C	4	20	6.4	23		18172
15	6824	<i>Daphnia carinata</i>	10124364	0.062	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
15	7411	<i>Daphnia carinata</i>	10124364	0.1	/HIS/CHG/	adult	LAB//C	10	37.6	7.3	26.75		45139

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
15	3666	<i>Daphnia magna</i>	10108642	0.005	LC50/ITX//	12 h	LAB/S/I	21	45.3	7.74	18	see paper	2022
15	3667	<i>Daphnia magna</i>	10108642	0.0007	EC50/REP//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
15	6190	<i>Daphnia magna</i>	10108642	0.0004	/REP//		LAB/R/I	21	45	7.8	18		11698
15	2424	<i>Gammarus</i>	7440439	0.07	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
15	4134	<i>Gammarus pseudolimnaeus</i>	10108642	0.0683	LC50/MOR//	0.1 g	LAB/S/I	4	43.5	7.45	17	acidity, conductivity 136-167 umhos/cm	10485
15	4225	<i>Hyalella azteca</i>	10108642	0.0028	LC50/MOR/INC/	2-3 wk	LAB/S/C	4	17	6.6	22		18420
15	4226	<i>Hyalella azteca</i>	10108642	0.0017	LC50/MOR/INC/	2-3 wk	LAB/S/C	7	17	6.6	22		18420
15	4227	<i>Hyalella azteca</i>	10108642	0.0012	LC50/MOR/INC/	2-3 wk	LAB/S/C	10	17	6.6	22		18420
15	4228	<i>Hyalella azteca</i>	10108642	0.0007	LC50/MOR/INC/	2-3 wk	LAB/S/C	14	17	6.6	22		18420
15	4256	<i>Hyalella azteca</i>	10108642	0.002	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
15	4257	<i>Hyalella azteca</i>	10108642	0.002	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
15	4258	<i>Hyalella azteca</i>	10108642	0.0003	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
15	4259	<i>Hyalella azteca</i>	10108642	0.002	LOEC/GRO/DEC/SIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
15	4261	<i>Hyalella azteca</i>	10108642	0.001	NOEC/MOR/NEF/NOSIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
15	4262	<i>Hyalella azteca</i>	10108642	0.001	NOEC/MOR/INC/NOSIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
15	4263	<i>Hyalella azteca</i>	10108642	0.0001	NOEC/MOR/INC/NOSIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
15	4264	<i>Hyalella azteca</i>	10108642	0.002	NOEC/GRO/NEF/NOSIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
15	5689	<i>Hyalella azteca</i>	10108642	0.004	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	7	17	6.6	22		18420
15	5690	<i>Hyalella azteca</i>	10108642	0.004	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	10	17	6.6	22		18420
15	6270	<i>Hyalella azteca</i>	10108642	0.006	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	4	17	6.6	22		18420
15	7047	<i>Mesocyclops hyalinus</i>	10124364	0.25	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
15	4438	<i>Moina irrasa</i>	10108642	0.0096	LC50/MOR/INC/	neonate, <24 h	LAB/S/	4	5	6.5	20		13762
15	4439	<i>Moina irrasa</i>	10108642	0.0025	LC50/MOR/INC/	neonate, <24 h	LAB/S/	4	5	8	20		13762
15	7055	<i>Moina macrocopa</i>	10124364	0.0725	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
15	4978	<i>Orconectes immunis</i>	10108642	10.2	LC50/MOR//	1.8 g	LAB/F/I	4	44.4	7.45	17.3		10775
15	4987	<i>Orconectes virilis</i>	10108642	6.1	LC50/MOR//	14.0-67.0 g,	LAB/F/S	4	26	6.9	20	cu, pb, zn	11976
15	4988	<i>Orconectes virilis</i>	10108642	1.8	LC50/MOR//	14.0-67.0 g,	LAB/F/S	7	26	6.9	20	cu, pb, zn	11976
15	4989	<i>Orconectes virilis</i>	10108642	1	LC50/MOR//	14.0-67.0 g,	LAB/F/S	10	26	6.9	20	cu, pb, zn	11976
15	4990	<i>Orconectes virilis</i>	10108642	0.7	LC50/MOR//	14.0-67.0 g,	LAB/F/S	14	26	6.9	20	cu, pb, zn	11976
15	4991	<i>Orconectes virilis</i>	10108642	0.06	LC50/MOR//	14.0-67.0 g,	LAB/F/S	14	26	6.9	20	cu, pb, zn	11976
15	5266	<i>Procambarus clarkii</i>	10108642	1.04	LC50/MOR//	juveniles, 1-1.5 cm	LAB/R/S	4	30.32	7.4	22		6937
15	7679	<i>Simocephalus serrulatus</i>	10325947	0.0086	LC50/MOR//	< 24 h, neonate	LAB/S/U	4	9.7	6.5	22	see paper for more water chemistry parameters	2024

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
15	7316	<i>Stenocypris malcolmsoni</i>	10124364	3.1	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
15	5364	<i>Tanytarsus dissimilis</i>	10108642	0.0038	LC50/MOR//	eggs through 2nd or 3rd instar	LAB/S/U	10	46.8	7.5	22		5249
15	2571	<i>Trichoptera</i>	7440439	3.4	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
16	Arthropods exposed to cadmium in soft water at >15degC over 1-3 days exposure												
16	3278	<i>Ceriodaphnia dubia</i>	10108642	0.0631	LC50/MOR/INC/	2-3 wk	LAB/S/C	2	17	6.6	22		18420
16	5554	<i>Ceriodaphnia dubia</i>	10108642	0.09	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	2	17	6.6	22		18420
16	6782	<i>Ceriodaphnia reticulata</i>	10124364	1.9	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
16	6784	<i>Ceriodaphnia reticulata</i>	10124364	0.45	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
16	6785	<i>Ceriodaphnia reticulata</i>	10124364	0.08	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
16	3353	<i>Chironomus tentans</i>	10108642	29.56	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	2	17	6.6	22		18420
16	3393	<i>Chydorus sphaericus</i>	10108642	0.431	LC50/ITX/INC/	adult, >0.30 mm	LAB/S/S	2	11.7	6.48	18	organism from non polluted lake, mesotrophic level	4258
16	3394	<i>Chydorus sphaericus</i>	10108642	0.288	LC50/ITX/INC/	adult, >0.30 mm	LAB/S/S	2	10.5	6.41	18	organism from pristine lake, dystrophic level	4258
16	3396	<i>Chydorus sphaericus</i>	10108642	0.56	LC50/ITX/INC/	juvenile, <0.30 mm	LAB/S/S	2	11.7	6.48	18	organism from non polluted lake, mesotrophic level	4258
16	3397	<i>Chydorus sphaericus</i>	10108642	0.244	LC50/ITX/INC/	juvenile, <0.30 mm	LAB/S/S	2	10.5	6.41	18	organism from pristine lake, dystrophic level	4258
16	3430	<i>Copepoda</i>	10108642	0.058	LC50/MOR/INC/	4 species	LAB/R/C	2	20	6.4	23		18172
16	5631	<i>Cypris</i>	10108642	0.01	NR-LETH/MOR/INC/		LAB/R/C	2.08	20	6.4	27		18172
16	6823	<i>Daphnia carinata</i>	10124364	0.28	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
16	6825	<i>Daphnia carinata</i>	10124364	0.045	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
16	6826	<i>Daphnia carinata</i>	10124364	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
16	2389	<i>Daphnia magna</i>	7440439	0.036	LC50/MOR//	<= 24 h	LAB/S/S	2	29	7.8	19.5	complete dilution water profile given	10929
16	2390	<i>Daphnia magna</i>	7440439	0.033	LC50/MOR//	<= 24 h	LAB/S/U	2	29	7.8	19.5	complete dilution water profile given	10929
16	2391	<i>Daphnia magna</i>	7440439	0.024	LC50/MOR//	<= 24 h	LAB/S/S	2	29	6.65	19.5	complete dilution water profile given	10929

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
16	2392	<i>Daphnia magna</i>	7440439	0.04	LC50/MOR//	<= 24 h	LAB/S/S	2	29	6.65	19.5	complete dilution water profile given	10929
16	2393	<i>Daphnia magna</i>	7440439	0.062	LC50/MOR//	<= 24 h	LAB/S/S	2	29	7.5	20	complete dilution water profile given	10929
16	2394	<i>Daphnia magna</i>	7440439	0.036	LC50/MOR//	<= 24 h	LAB/S/S	2	29	7.8	19.5	complete dilution water profile given	10929
16	3600	<i>Daphnia magna</i>	10108642	0.109	LC50/ITX//	<4 h	LAB/S/I	2	54	7.3	20		12311
16	3601	<i>Daphnia magna</i>	10108642	0.046	LC50/ITX//	<24 h	LAB/S/I	2	54	7.3	20		12311
16	3603	<i>Daphnia magna</i>	10108642	0.164	LC50/ITX//	2 d	LAB/S/I	2	54	7.3	20		12311
16	3604	<i>Daphnia magna</i>	10108642	0.063	LC50/ITX//	3 d	LAB/S/I	2	54	7.3	20		12311
16	3605	<i>Daphnia magna</i>	10108642	0.082	LC50/ITX//	4 d	LAB/S/I	2	54	7.3	20		12311
16	3606	<i>Daphnia magna</i>	10108642	0.049	LC50/ITX//	5 d	LAB/S/I	2	54	7.3	20		12311
16	3607	<i>Daphnia magna</i>	10108642	0.023	LC50/ITX//	6 d	LAB/S/I	2	54	7.3	20		12311
16	3610	<i>Daphnia magna</i>	10108642	0.099	LC50/ITX//	<4 h	LAB/S/I	2	41	7.3	20		12311
16	3611	<i>Daphnia magna</i>	10108642	0.164	LC50/ITX//	<4 h	LAB/S/I	2	38	7.3	20		12311
16	3617	<i>Daphnia magna</i>	10108642	0.008	LC50/ITX//	1 d	LAB/S/I	2	41	7.3	20		12311
16	3618	<i>Daphnia magna</i>	10108642	0.064	LC50/ITX//	1 d	LAB/S/I	2	38	7.3	20		12311
16	3624	<i>Daphnia magna</i>	10108642	0.03	LC50/ITX//	5 d	LAB/S/I	2	41	7.3	20		12311
16	3625	<i>Daphnia magna</i>	10108642	0.092	LC50/ITX//	5 d	LAB/S/I	2	38	7.3	20		12311
16	3626	<i>Daphnia magna</i>	10108642	0.131	LC50/ITX//	5 d	LAB/S/I	2	38	7.3	20		12311
16	3631	<i>Daphnia magna</i>	10108642	0.098	LC50/ITX//	2 d	LAB/S/I	2	41	7.3	20		12311
16	3632	<i>Daphnia magna</i>	10108642	0.307	LC50/ITX//	2 d	LAB/S/I	2	38	7.3	20		12311
16	3636	<i>Daphnia magna</i>	10108642	0.016	LC50/ITX//	1 d	LAB/S/I	2	38	7.3	20		12311
16	3665	<i>Daphnia magna</i>	10108642	0.065	LC50/ITX//	12 h	LAB/S/I	2	45.3	7.74	18	see paper	2022
16	3795	<i>Daphnia magna</i>	10108642	0.0099	LC50/MOR//	< 1 d	LAB/S/I	2	51	7.5	20.3	water parameters rpt	3621
16	3815	<i>Daphnia magna</i>	10108642	0.035	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
16	3816	<i>Daphnia magna</i>	10108642	0.045	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
16	3817	<i>Daphnia magna</i>	10108642	0.06	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
16	3818	<i>Daphnia magna</i>	10108642	0.055	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
16	3819	<i>Daphnia magna</i>	10108642	0.075	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
16	3820	<i>Daphnia magna</i>	10108642	0.065	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
16	3821	<i>Daphnia magna</i>	10108642	0.06	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
16	3822	<i>Daphnia magna</i>	10108642	0.055	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
16	3823	<i>Daphnia magna</i>	10108642	0.05	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
16	3824	<i>Daphnia magna</i>	10108642	0.15	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	20.17	6.5	20		15821
16	3825	<i>Daphnia magna</i>	10108642	0.15	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	50.43	6.5	20		15821
16	3829	<i>Daphnia magna</i>	10108642	0.05	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	20.17	6.5	20		15821

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
16	3830	<i>Daphnia magna</i>	10108642	0.15	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	50.43	6.5	20		15821
16	6891	<i>Daphnia magna</i>	10124364	0.112	LC50/MOR/INC/	neonates, clone s-1	LAB/S/C	2	46.1	7.2	20		19146
16	6892	<i>Daphnia magna</i>	10124364	0.0301	LC50/MOR/INC/	neonates, clone a	LAB/S/C	2	46.1	7.2	20		19146
16	3962	<i>Daphnia pulex</i>	10108642	0.071	LC50/MOR/INC/	>=6 d	LAB/S/C	2	46	7.5	21		3402
16	4224	<i>Hyalella azteca</i>	10108642	0.0056	LC50/MOR/INC/	2-3 wk	LAB/S/C	2	17	6.6	22		18420
16	7046	<i>Mesocyclops hyalinus</i>	10124364	0.87	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
16	7048	<i>Mesocyclops hyalinus</i>	10124364	0.08	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
16	7049	<i>Mesocyclops hyalinus</i>	10124364	0.045	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
16	4433	<i>Moina irrasa</i>	10108642	0.025	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	20		13762
16	4435	<i>Moina irrasa</i>	10108642	0.0135	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	6.5	20		13762
16	4436	<i>Moina irrasa</i>	10108642	0.0075	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	8	20		13762
16	4443	<i>Moina irrasa</i>	10108642	0.0053	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	25		13762
16	4444	<i>Moina irrasa</i>	10108642	0.0331	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	8	25		13762
16	4445	<i>Moina irrasa</i>	10108642	0.0117	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	8	25		13762
16	4447	<i>Moina irrasa</i>	10108642	0.021	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	6.5	30		13762
16	4448	<i>Moina irrasa</i>	10108642	0.0689	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	8	30		13762
16	4449	<i>Moina irrasa</i>	10108642	0.0153	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	8	20		13762
16	7054	<i>Moina macrocopa</i>	10124364	0.32	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
16	7056	<i>Moina macrocopa</i>	10124364	0.045	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
16	7057	<i>Moina macrocopa</i>	10124364	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
16	5356	<i>Simocephalus serrulatus</i>	10108642	0.0245	LC50/MOR//	< 1 d	LAB/S/I	2	43.5	7.45	20	acidity, conductivity 136-167 umhos/cm	10485
16	7674	<i>Simocephalus serrulatus</i>	10325947	0.007	LC50/MOR//	< 24 h, neonate	LAB/S/S	2	9.7	6.5	22	see paper for more water chemistry parameters	2024
16	7676	<i>Simocephalus serrulatus</i>	10325947	0.0035	LC50/MOR//	< 24 h, neonate	LAB/S/S	2	9.7	6.5	22	see paper for more water chemistry parameters	2024
16	7677	<i>Simocephalus serrulatus</i>	10325947	0.012	LC50/MOR//	< 24 h, neonate	LAB/S/S	2	9.7	6.5	22	see paper for more water chemistry parameters	2024
16	7678	<i>Simocephalus serrulatus</i>	10325947	0.0165	LC50/MOR//	< 24 h, neonate	LAB/S/S	2	9.7	6.5	22	see paper for more water chemistry parameters	2024

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
16	7315	<i>Stenocypris malcolmsoni</i>	10124364	11.5	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
16	7317	<i>Stenocypris malcolmsoni</i>	10124364	4.5	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
16	7318	<i>Stenocypris malcolmsoni</i>	10124364	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
17	Arthropods exposed to cadmium in soft water at >15degC over <=1 day exposure												
17	2248	<i>Ceriodaphnia dubia</i>	7440439	0.023	IC50/REP/DEC/		LAB/S/C	1	20	6.95	25		45106
17	2249	<i>Ceriodaphnia dubia</i>	7440439	0.019	IC50/REP/DEC/		LAB/S/C	1	22	7	25		45106
17	2250	<i>Ceriodaphnia dubia</i>	7440439	0.041	LOEC/MOR/DEC/SIG		LAB/S/C	1	20	6.95	25		45106
17	2251	<i>Ceriodaphnia dubia</i>	7440439	0.01	LOEC/REP/DEC/SIG		LAB/S/C	1	20	6.95	25		45106
17	2252	<i>Ceriodaphnia dubia</i>	7440439	0.019	LOEC/REP/DEC/SIG		LAB/S/C	1	22	7	25		45106
17	2253	<i>Ceriodaphnia dubia</i>	7440439	0.039	LOEC/MOR/DEC/SIG		LAB/S/C	1	22	7	25		45106
17	2254	<i>Ceriodaphnia dubia</i>	7440439	0.014	MATC/REP/DEC/		LAB/S/C	1	20	6.95	25		45106
17	2255	<i>Ceriodaphnia dubia</i>	7440439	0.015	MATC/REP/DEC/		LAB/S/C	1	22	7	25		45106
17	2256	<i>Ceriodaphnia dubia</i>	7440439	0.019	NOEC/MOR/DEC/NOSIG		LAB/S/C	1	20	6.95	25		45106
17	2257	<i>Ceriodaphnia dubia</i>	7440439	0.019	NOEC/REP/DEC/NOSIG		LAB/S/C	1	20	6.95	25		45106
17	2258	<i>Ceriodaphnia dubia</i>	7440439	0.011	NOEC/REP/DEC/NOSIG		LAB/S/C	1	22	7	25		45106
17	2259	<i>Ceriodaphnia dubia</i>	7440439	0.019	NOEC/MOR/DEC/NOSIG		LAB/S/C	1	22	7	25		45106
17	2276	<i>Chironomus</i>	7440439	5.1	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
17	3527	<i>Cypris</i>	10108642	0.042	LC50/MOR/INC/		LAB/R/C	1	20	6.4	27		18172
17	3528	<i>Cypris</i>	10108642	0.034	LC50/MOR/INC/		LAB/R/C	1	20	6.4	27		18172
17	5630	<i>Cypris</i>	10108642	1	NR-LETH/MOR/INC/		LAB/R/C	0.08	20	6.4	27		18172
17	3602	<i>Daphnia magna</i>	10108642	0.048	LC50/ITX//	1 d	LAB/S/I	1	54	7.3	20		12311
17	3960	<i>Daphnia pulex</i>	10108642	0.3	LC50/MOR/INC/	>=6 d	LAB/S/C	1	46	7.5	21		3402
17	3961	<i>Daphnia pulex</i>	10108642	0.14	LC50/MOR/INC/	>=6 d	LAB/S/C	1	46	7.5	21		3402
17	2423	<i>Gammarus</i>	7440439	0.14	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
17	4430	<i>Moina irritata</i>	10108642	0.0423	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	20		13762
17	4431	<i>Moina irritata</i>	10108642	0.084	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	20		13762
17	4441	<i>Moina irritata</i>	10108642	0.0276	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	25		13762
17	2570	<i>Trichoptera</i>	7440439	5.1	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
18	Arthropods exposed to cadmium in very hard water at >15degC over 3-30 days exposure												
18	7714	<i>Ceriodaphnia dubia</i>	10325947	0.03	/REP/DEC/MULT	neonates, 12-24 h	LAB/R/C	7	182	7.5	25	water from Clinch River, Virginia	8661
18	3328	<i>Ceriodaphnia reticulata</i>	10108642	0.0153	LC50/MOR//	larvae - adult	LAB/R/S	7	240	8	23		12258
18	3332	<i>Ceriodaphnia reticulata</i>	10108642	0.0153	EC50/REP//	1st instar larvae, < 24 h	LAB/R/S	7	240	8	23		12258

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
18	3334	<i>Ceriodaphnia reticulata</i>	10108642	0.0002	LOEC/REP//	first instar, <24 h	LAB/R/S	7	240	8	23		12258
18	3335	<i>Ceriodaphnia reticulata</i>	10108642	0.0086	MATC/REP//	first instar, <24 h	LAB/R/S	7	240	8	23		12258
18	3634	<i>Daphnia magna</i>	10108642	0.0153	LC50/MOR//	larvae - adult	LAB/R/S	14	240	8	23		12258
18	3676	<i>Daphnia magna</i>	10108642	0.0035	EC50/REP//	1st instar larvae, < 24 h	LAB/R/S	14	240	8	23		12258
18	3848	<i>Daphnia magna</i>	10108642	0.0005	LOEC/REP//	first instar, <24 h	LAB/R/S	14	240	8	23		12258
18	3858	<i>Daphnia magna</i>	10108642	0.0026	MATC/REP//	first instar, <24 h	LAB/R/S	14	240	8	23		12258
18	5639	<i>Daphnia magna</i>	10108642	0.0011	/ENZ/CHG/		LAB/R/C	8	250	6.6	20		12155
18	5640	<i>Daphnia magna</i>	10108642	0.0011	/BCM/CHG/		LAB/R/C	8	250	6.6	20		12155
18	6210	<i>Daphnia magna</i>	10108642	0.0011	/GRO/CHG/		LAB/R/C	8	250	6.6	20		12155
18	3873	<i>Daphnia pulex</i>	10108642	0.0153	LC50/MOR//	larvae - adult	LAB/R/S	14	240	8	23		12258
18	3883	<i>Daphnia pulex</i>	10108642	0.0153	EC50/REP//	1st instar larvae, < 24 h	LAB/R/S	14	240	8	23		12258
18	3963	<i>Daphnia pulex</i>	10108642	0.0002	LOEC/REP//	first instar, <24 h	LAB/R/S	14	240	8	23		12258
18	3964	<i>Daphnia pulex</i>	10108642	0.0086	MATC/REP//	first instar, <24 h	LAB/R/S	14	240	8	23		12258
18	7598	<i>Diaptomus forbesi</i>	10325947	5.7	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25		19384
18	7599	<i>Diaptomus forbesi</i>	10325947	4.9	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25	30 mg/l poultry litter	19384
18	7600	<i>Diaptomus forbesi</i>	10325947	4.2	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25	65 mg/l poultry litter	19384
18	7601	<i>Diaptomus forbesi</i>	10325947	3.45	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25	125 mg/l poultry litter	19384
18	7602	<i>Diaptomus forbesi</i>	10325947	3.046	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25	250 mg/l poultry litter	19384
18	7603	<i>Diaptomus forbesi</i>	10325947	3.093	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25	250 mg/l poultry litter	19384
18	7604	<i>Diaptomus forbesi</i>	10325947	2.996	LC50/MOR/INC/	0.58 cm	LAB/S/	4	185	7.2	25	250 mg/l poultry litter	19384
18	4252	<i>Hyalella azteca</i>	10108642	0.121	LC50/MOR/INC/		LAB/F/C	4	259	8	23	fed	52121
18	4255	<i>Hyalella azteca</i>	10108642	0.106	LC50/MOR/INC/		LAB/F/C	4	259	8	23	starved	52121
18	7620	<i>Hyalella azteca</i>	10325947	0.23	LC50/MOR//	7-14 d	LAB//I	4	290	6.19	25		7289
18	7621	<i>Hyalella azteca</i>	10325947	0.025	LC50/MOR//	7-14 d	LAB//I	4	290	7.495	25		7289
18	5263	<i>Procambarus clarkii</i>	10108642	58.5	LC50/MOR//	adult, intermolt, 15-20 g	LAB/S/S	4	240	7.25	20		12565
18	5264	<i>Procambarus clarkii</i>	10108642	34.8	LC50/MOR//	adult, intermolt, 15-20 g	LAB/S/S	4	240	7.25	24		12565
18	5265	<i>Procambarus clarkii</i>	10108642	18.4	LC50/MOR//	adult, intermolt, 15-20 g	LAB/S/S	4	240	7.25	28		12565

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
18	6503	<i>Procambarus clarkii</i>	10108642	1	/ENZ//	adult intermolt, 20.7-30.3 g	LAB/R/S	4	240	7.25	22		3407
19	<i>Invertebrates exposed to cadmium in hard water at >15degC over 1-3 days exposure</i>												
19	3681	<i>Daphnia magna</i>	10108642	0.2038	LC50/MOR//	juvenile	LAB/F/S	1.5	130	6.95	20	ca, conductivity, cd, fe, zn, ni, cu	15484
19	3682	<i>Daphnia magna</i>	10108642	0.0582	LC50/MOR//	juvenile	LAB/F/S	2	130	6.95	20	ca, conductivity, cd, fe, zn, ni, cu	15484
19	3683	<i>Daphnia magna</i>	10108642	0.0158	LC50/MOR//	juvenile	LAB/F/S	2.5	130	6.95	20	ca, conductivity, cd, fe, zn, ni, cu	15484
19	3684	<i>Daphnia magna</i>	10108642	0.0089	LC50/MOR//	juvenile	LAB/F/S	3	130	6.95	20	ca, conductivity, cd, fe, zn, ni, cu	15484
19	3826	<i>Daphnia magna</i>	10108642	0.85	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	151.29	6.5	20		15821
19	3831	<i>Daphnia magna</i>	10108642	0.85	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	151.29	6.5	20		15821
19	3955	<i>Daphnia pulex</i>	10108642	0.0879	LC50/MOR//	adult	LAB/S/S	2	127	7.9	20		7195
19	4126	<i>Gammarus fossarum</i>	10108642	0.015	LC50/MOR//		LAB/S/I	2	173	7.805	16		3445
19	5027	<i>Paratelphusa hydrodromus</i>	10108642	4.2237	LC50/MOR/INC/	2.80 cm carapace width, 7.75 g,	LAB/S/C	2	165	7.6	29		6773
19	5028	<i>Paratelphusa hydrodromus</i>	10108642	1.4429	LC50/MOR/INC/	2.80 cm carapace width, 7.75 g,	LAB/S/C	3	165	7.6	29		6773
19	7348	<i>Viviparus bengalensis</i>	10124364	3.654	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	2	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
19	7349	<i>Viviparus bengalensis</i>	10124364	2.578	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	3	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
20	<i>Invertebrates exposed to cadmium in moderately hard water at <15degC over 3-30 days exposure</i>												
20	3140	<i>Asellus</i>	10108642	0.56	LC50/MOR/INC/	asellus cavaticus	LAB//	4	103.2	6	12		3100
20	3141	<i>Asellus</i>	10108642	0.5	LC50/MOR/INC/	asellus cavaticus	LAB//	4	103.2	7	12		3100
20	3142	<i>Asellus</i>	10108642	0.5	LC50/MOR/INC/	asellus cavaticus	LAB//	4	103.2	8	12		3100
20	2181	<i>Asellus aquaticus</i>	7440439	2	LC50/MOR//	embryo, stage c	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2182	<i>Asellus aquaticus</i>	7440439	1.75	LC50/MOR//	embryo, stage c	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2183	<i>Asellus aquaticus</i>	7440439	0.3	LC50/MOR//	embryo, stage d	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2184	<i>Asellus aquaticus</i>	7440439	0.24	LC50/MOR//	embryo, stage d	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953

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20	2185	<i>Asellus aquaticus</i>	7440439	0.08	LC50/MOR//	juvenile, 30 d, 1.35 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2186	<i>Asellus aquaticus</i>	7440439	0.053	LC50/MOR//	juvenile, 30 d, 1.35 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2187	<i>Asellus aquaticus</i>	7440439	0.17	LC50/MOR//	juvenile, 1.60 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2188	<i>Asellus aquaticus</i>	7440439	0.15	LC50/MOR//	juvenile, 1.60 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2189	<i>Asellus aquaticus</i>	7440439	0.175	LC50/MOR//	juvenile, 2.30 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2190	<i>Asellus aquaticus</i>	7440439	0.17	LC50/MOR//	juvenile, 2.30 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2191	<i>Asellus aquaticus</i>	7440439	0.32	LC50/MOR//	juvenile, 3.52 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2192	<i>Asellus aquaticus</i>	7440439	0.23	LC50/MOR//	juvenile, 3.52 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2193	<i>Asellus aquaticus</i>	7440439	0.54	LC50/MOR//	juvenile, 5.92 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2194	<i>Asellus aquaticus</i>	7440439	0.45	LC50/MOR//	juvenile, 5.92 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2195	<i>Asellus aquaticus</i>	7440439	1	LC50/MOR//	adult, 9.87 mm	LAB/R/I	4	104.8	7.83	11	conductivity 260 uscm	11953
20	2196	<i>Asellus aquaticus</i>	7440439	0.6	LC50/MOR/INC/	adult, 9.87 mm	LAB/R/I	4	104.8	7.83	11		11953
20	3686	<i>Daphnia magna</i>	10108642	0.051	LC50/MOR/INC/	72-120 h	LAB/S/I	4	76.8	7.8	15	nemadji river water	3690
20	3687	<i>Daphnia magna</i>	10108642	0.1	LC50/MOR/INC/	72-120 h	LAB/S/I	4	68	7.6	15	little pokegama river water	3690
20	4131	<i>Gammarus pseudolimnaeus</i>	10108642	0.049	LC50/MOR/INC/		LAB/S/I	4	76.8	7.8	15	nemadji river water	3690
20	4132	<i>Gammarus pseudolimnaeus</i>	10108642	0.062	LC50/MOR/INC/		LAB/S/I	4	68	7.6	15	little pokegama river water	3690
20	4141	<i>Gammarus pulex</i>	10108642	0.018	LC50/MOR//	mature, 8-10 mm, immediate post-hat	LAB/S/S	4	113.9	7.7	12.5	conductivity	9639
20	4144	<i>Gammarus pulex</i>	10108642	1.17	LC50/MOR//	mature, 8-10 mm, intermolt stage	LAB/S/S	4	113.9	7.7	12.5	conductivity	9639
20	4147	<i>Gammarus pulex</i>	10108642	0.05	LC50/MOR//	mature, 8-11 mm	LAB/R/S	4	117.4	7.36	11.8	conductivity	2335
20	4151	<i>Gammarus pulex</i>	10108642	0.013	LC50/MOR//	females with stage 2-6 eggs or	LAB/R/S	4	94.6	7.7	11	conductivity	13156
20	4153	<i>Gammarus pulex</i>	10108642	0.02	LC50/MOR//	sexually mature males	LAB/R/S	4	94.6	7.7	11	conductivity	13156
20	6248	<i>Gammarus pulex</i>	10108642	0.3	/FDB//	mature, 8-11 mm	LAB/R/S	4	117.4	7.36	11.8	conductivity	2335

mg total metal/L, hardness in mg CaCO₃/L

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20	6249	<i>Gammarus pulex</i>	10108642	0.03	/FDB//	mature, 8-11 mm	LAB/R/S	4	117.4	7.36	11.8	conductivity	2335
20	4221	<i>Hyalella azteca</i>	10108642	0.12	LC50/MOR/INC/		LAB/S/I	4	76.8	7.8	15	nemadji river water	3690
20	4222	<i>Hyalella azteca</i>	10108642	0.052	LC50/MOR/INC/		LAB/S/I	4	68	7.6	15	little pokegama river water	3690
20	4223	<i>Hyalella azteca</i>	10108642	0.285	LC50/MOR//	0.001 g	LAB/S/I	4	67	7.5	7	conductivity 104-165 umhoscm, complete dilution water	10485
20	4499	<i>Niphargus aquilex</i>	10108642	5	LC50/MOR/INC/		LAB//	4	103.2	6	12		3100
20	4500	<i>Niphargus aquilex</i>	10108642	4.5	LC50/MOR/INC/		LAB//	4	103.2	7	12		3100
20	4501	<i>Niphargus aquilex</i>	10108642	2.45	LC50/MOR/INC/		LAB//	4	103.2	8	12		3100
20	5018	<i>Paraleptophlebia praepepedita</i>	10108642	0.449	LC50/MOR//	0.002 g	LAB/S/I	4	67	7.5	12	conductivity 104-165 umhoscm, complete dilution water	10485
20	5421	<i>Trichodrilus tenuis</i>	10108642	1.15	LC50/MOR/INC/		LAB//	4	103.2	6	12		3100
20	5422	<i>Trichodrilus tenuis</i>	10108642	1.05	LC50/MOR/INC/		LAB//	4	103.2	7	12		3100
20	5423	<i>Trichodrilus tenuis</i>	10108642	0.8	LC50/MOR/INC/		LAB//	4	103.2	8	12		3100
21	Invertebrates exposed to cadmium in moderately hard water at <15degC over 1-3 days exposure												
21	3136	<i>Asellus</i>	10108642	3.7	LC50/MOR/INC/	asellus cavaticus	LAB//	2	103.2	6	12		3100
21	3137	<i>Asellus</i>	10108642	2.5	LC50/MOR/INC/	asellus cavaticus	LAB//	2	103.2	7	12		3100
21	3138	<i>Asellus</i>	10108642	2.2	LC50/MOR/INC/	asellus cavaticus	LAB//	2	103.2	8	12		3100
21	3598	<i>Daphnia magna</i>	10108642	0.2	LC50/ITX/INC/	72-120 h	LAB/S/I	2	76.8	7.8	15	nemadji river water	3690
21	3599	<i>Daphnia magna</i>	10108642	0.14	LC50/ITX/INC/	72-120 h	LAB/S/I	2	68	7.6	15	little pokegama river water	3690
21	4139	<i>Gammarus pulex</i>	10108642	0.044	LC50/MOR//	mature, 8-10 mm, immediate post-hat	LAB/S/S	2	113.9	7.7	12.5	conductivity	9639
21	4140	<i>Gammarus pulex</i>	10108642	0.026	LC50/MOR//	mature, 8-10 mm, immediate post-hat	LAB/S/S	3	113.9	7.7	12.5	conductivity	9639
21	4142	<i>Gammarus pulex</i>	10108642	3.14	LC50/MOR//	mature, 8-10 mm, intermolt stage	LAB/S/S	2	113.9	7.7	12.5	conductivity	9639
21	4143	<i>Gammarus pulex</i>	10108642	1.12	LC50/MOR//	mature, 8-10 mm, intermolt stage	LAB/S/S	3	113.9	7.7	12.5	conductivity	9639
21	4146	<i>Gammarus pulex</i>	10108642	0.19	LC50/MOR//	mature, 8-11 mm	LAB/R/S	2	117.4	7.36	11.8	conductivity	2335
21	4149	<i>Gammarus pulex</i>	10108642	0.018	LC50/MOR//	females with empty brood pouches,	LAB/R/S	2	94.6	7.7	11	conductivity	13156
21	4150	<i>Gammarus pulex</i>	10108642	0.12	LC50/MOR//	females with stage 2-6 eggs or	LAB/R/S	2	94.6	7.7	11	conductivity	13156

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
21	4152	<i>Gammarus pulex</i>	10108642	0.23	LC50/MOR//	sexually mature males	LAB/R/S	2	94.6	7.7	11	conductivity	13156
21	4495	<i>Niphargus aquilex</i>	10108642	10.8	LC50/MOR/INC/		LAB//	2	103.2	6	12		3100
21	4496	<i>Niphargus aquilex</i>	10108642	10	LC50/MOR/INC/		LAB//	2	103.2	7	12		3100
21	4497	<i>Niphargus aquilex</i>	10108642	7.5	LC50/MOR/INC/		LAB//	2	103.2	8	12		3100
21	5417	<i>Trichodrilus tenuis</i>	10108642	1.83	LC50/MOR/INC/		LAB//	2	103.2	6	12		3100
21	5418	<i>Trichodrilus tenuis</i>	10108642	1.6	LC50/MOR/INC/		LAB//	2	103.2	7	12		3100
21	5419	<i>Trichodrilus tenuis</i>	10108642	1.46	LC50/MOR/INC/		LAB//	2	103.2	8	12		3100
22	Invertebrates exposed to cadmium in moderately hard water at >15degC over 3-30 days exposure												
22	2203	<i>Asellus aquaticus</i>	7440439	0.16	LC50/MOR/INC/	4-6 mm	LAB/R/C	4	87	6.9	16		14932
22	2204	<i>Asellus aquaticus</i>	7440439	0.0968	LC50/MOR/INC/		LAB/R/C	6	87	6.9	16	fed	14932
22	2205	<i>Asellus aquaticus</i>	7440439	0.0878	LC50/MOR/INC/		LAB/R/C	6	87	6.9	16	starved	14932
22	2206	<i>Asellus aquaticus</i>	7440439	0.0758	LC50/MOR/INC/		LAB/R/C	10	87	6.9	16	fed	14932
22	2207	<i>Asellus aquaticus</i>	7440439	0.061	LC50/MOR/INC/		LAB/R/C	15	87	6.9	16	fed	14932
22	2208	<i>Asellus aquaticus</i>	7440439	0.049	LC50/MOR/INC/		LAB/R/C	20	87	6.9	16	fed	14932
22	2209	<i>Asellus aquaticus</i>	7440439	0.042	LC50/MOR/INC/		LAB/R/C	25	87	6.9	16	fed	14932
22	2210	<i>Asellus aquaticus</i>	7440439	0.04	LC50/MOR/INC/		LAB/R/C	30	87	6.9	16	fed	14932
22	2213	<i>Asellus aquaticus</i>	7440439	0.0538	LC50/MOR/INC/		LAB/R/C	10	87	6.9	16	starved	14932
22	2214	<i>Asellus aquaticus</i>	7440439	0.0464	LC50/MOR/INC/		LAB/R/C	15	87	6.9	16	starved	14932
22	2215	<i>Asellus aquaticus</i>	7440439	0.0387	LC50/MOR/INC/		LAB/R/C	20	87	6.9	16	starved	14932
22	2216	<i>Asellus aquaticus</i>	7440439	0.0369	LC50/MOR/INC/		LAB/R/C	25	87	6.9	16	starved	14932
22	2217	<i>Asellus aquaticus</i>	7440439	0.033	LC50/MOR/INC/		LAB/R/C	30	87	6.9	16	starved	14932
22	2587	<i>Asellus aquaticus</i>	7440439	0.06	/BEH/CHG/MULT	4-6 mm	LAB/R/C	14.58	87	6.9	16	starved and fed	14932
22	3158	<i>Barytelphusa guerini</i>	10108642	1.82	LC50/MOR/INC/	24 g, male	LAB//C	4	112	7.3	27		18426
22	5540	<i>Barytelphusa guerini</i>	10108642	0.62	/BCM/INC/MULT	24 g, male	LAB/R/C	15.5	112	7.3	27		18426
22	5541	<i>Barytelphusa guerini</i>	10108642	0.62	/ENZ/INC/MULT	24 g, male	LAB/R/C	15.5	112	7.3	27		18426
22	7530	<i>Biomphalaria glabrata</i>	10325947	0.3	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	4	100	7.8	21		5268
22	2829	<i>Chironomus thummi</i>	7440439	0.15	/MOR//	first-third instar larvae	LAB/R/S	17	98	7.6	20	conductivity 263 umhos/cm	9627
22	2830	<i>Chironomus thummi</i>	7440439	0.15	/DVP//	first-third instar larvae	LAB/R/S	14	98	7.6	20	conductivity 263 umhos/cm	9627
22	2831	<i>Chironomus thummi</i>	7440439	0.15	/GRO//	first-third instar larvae	LAB/R/S	17	98	7.6	20	conductivity 263 umhos/cm	9627
22	2832	<i>Chironomus thummi</i>	7440439	0.0758	/DVP//	male, female	LAB/R/S	12	98	7.6	20	conductivity 263 umhos/cm	9627
22	3807	<i>Daphnia magna</i>	10108642	0.0127	LC50/MOR/INC/	2-3 wk	LAB/S/C	4	78	7.6	21.8	pond water	18420
22	3808	<i>Daphnia magna</i>	10108642	0.0099	LC50/MOR/INC/	2-3 wk	LAB/S/C	7	78	7.6	21.8	pond water	18420

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
22	3809	<i>Daphnia magna</i>	10108642	0.009	LC50/MOR/INC/	2-3 wk	LAB/S/C	10	78	7.6	21.8	pond water	18420
22	3810	<i>Daphnia magna</i>	10108642	0.0086	LC50/MOR/INC/	2-3 wk	LAB/S/C	14	78	7.6	21.8	pond water	18420
22	3851	<i>Daphnia magna</i>	10108642	0.01	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	7	78	7.6	21.8	pond water	18420
22	3852	<i>Daphnia magna</i>	10108642	0.01	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	10	78	7.6	21.8	pond water	18420
22	3853	<i>Daphnia magna</i>	10108642	0.01	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	14	78	7.6	21.8	pond water	18420
22	3861	<i>Daphnia magna</i>	10108642	0.005	NOEC/MOR/NEF/NOSIG	2-3 wk	LAB/S/C	7	78	7.6	21.8	pond water	18420
22	3862	<i>Daphnia magna</i>	10108642	0.005	NOEC/MOR/NEF/NOSIG	2-3 wk	LAB/S/C	10	78	7.6	21.8	pond water	18420
22	3863	<i>Daphnia magna</i>	10108642	0.005	NOEC/MOR/NEF/NOSIG	2-3 wk	LAB/S/C	14	78	7.6	21.8	pond water	18420
22	5642	<i>Daphnia magna</i>	10108642	0.015	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	7	78	7.6	21.8	pond water	18420
22	5643	<i>Daphnia magna</i>	10108642	0.015	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	10	78	7.6	21.8	pond water	18420
22	5644	<i>Daphnia magna</i>	10108642	0.015	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	14	78	7.6	21.8	pond water	18420
22	2403	<i>Dendrocoelum lacteum</i>	7440439	23.22	LC50/MOR/INC/		LAB/R/C	4	87	6.9	16		14932
22	4133	<i>Gammarus pseudolimnaeus</i>	10108642	0.0544	LC50/MOR//	0.1 g	LAB/S/I	4	67	7.5	17	conductivity 104-165 umhoscm, complete dilution waterscr	10485
22	2427	<i>Hexagenia rigida</i>	7440439	6.2	LC50/MOR//	yearling, nymphs, 24 mm	LAB/S/S	4	79.1	7.96	18	conductivity, cl, so4, na, k, ca, mg	2091
22	4270	<i>Hydra vulgaris</i>	10108642	0.12	LC50/MOR/INC/	polyps, budding, non-budding	LAB/R/C	4	108	7.5	20		18616
22	4450	<i>Moina macrocopa</i>	10108642	0.0008	EC50/REP//	36 h, female	LAB/R/I	20	82	7.5	23		3619
22	4461	<i>Moina macrocopa</i>	10108642	0.0012	LT50/MOR//	female, 36 h	LAB/R/I	10.4	82	7.5	23		3619
22	4462	<i>Moina macrocopa</i>	10108642	0.0004	LT50/MOR//	female, 36 h	LAB/R/I	12	82	7.5	23		3619
22	4463	<i>Moina macrocopa</i>	10108642	0.0008	LT50/MOR//	female, 36 h	LAB/R/I	12.2	82	7.5	23		3619
22	4464	<i>Moina macrocopa</i>	10108642	0.0016	LT50/MOR//	female, 36 h	LAB/R/U	14	82	7.5	23		3619
22	4465	<i>Moina macrocopa</i>	10108642	0.0002	LT50/MOR//	female, 36 h	LAB/R/U	15	82	7.5	23		3619
22	5723	<i>Moina macrocopa</i>	10108642		/MOR/CHG/		LAB/FD/C	8.5	82	7.5	23		16171
22	5724	<i>Moina macrocopa</i>	10108642		/REP/CHG/MULT		LAB/FD/C	9.5	82	7.5	28		16171
22	6344	<i>Moina macrocopa</i>	10108642	0.0004	/REP//	female, 36 h	LAB/R/S	20	82	7.5	23		3619
22	6345	<i>Moina macrocopa</i>	10108642	0.0002	/REP//	female, 36 h	LAB/R/S	20	82	7.5	23		3619
22	6348	<i>Moina macrocopa</i>	10108642		/MPH/CHG/		LAB/FD/C	8	82	7.5	23		16171
22	6349	<i>Moina macrocopa</i>	10108642		/REP/CHG/		LAB/FD/C	9.5	82	7.5	28		16171
22	6350	<i>Moina macrocopa</i>	10108642		/REP/CHG/		LAB/FD/C	9.5	82	7.5	28		16171
22	6351	<i>Moina macrocopa</i>	10108642		/POP/CHG/		LAB/FD/C	9.5	82	7.5	28		16171
22	6352	<i>Moina macrocopa</i>	10108642		/POP/DEC/		LAB/FD/C	9.5	82	7.5	28		16171
22	7088	<i>Philodina acuticornis</i>	10124364	0.3	LC50/ITX/INC/		LAB/S/C	4	81	7.6	20		2019

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
22	7089	<i>Philodina acuticornis</i>	10124364	0.3	LC50/ITX/INC/		LAB/S/C	4	81	7.6	20		2019
22	5294	<i>Ranatra elongata</i>	10108642	0.288	LC50/MOR/INC/		LAB//C	4	112.4	7.5	26		11919
23	Invertebrates exposed to cadmium in moderately hard water at >15degC over 1-3 days exposure												
23	7528	<i>Biomphalaria glabrata</i>	10325947	1.06	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	2	100	7.8	21		5268
23	7529	<i>Biomphalaria glabrata</i>	10325947	0.57	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	3	100	7.8	21		5268
23	3215	<i>Caenorhabditis elegans</i>	10108642	2	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	2	85	7.8	20	recon water	19999
23	3218	<i>Caenorhabditis elegans</i>	10108642	2	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	2	85	7.8	20	mineral water, fed	19999
23	3333	<i>Ceriodaphnia reticulata</i>	10108642	0.129	LC50/MOR//	< 1 d	LAB/S/I	2	67	7.5	20	conductivity 104-165 umhos/cm, complete dilution water go	10485
23	3395	<i>Chydorus sphaericus</i>	10108642	0.149	LC50/ITX/INC/	adult, >0.30 mm	LAB/S/S	2	83.6	6.66	18	organism from polluted lake, eutrophic level	4258
23	3398	<i>Chydorus sphaericus</i>	10108642	0.277	LC50/ITX/INC/	juvenile, <0.30 mm	LAB/S/S	2	83.6	6.66	18	organism from polluted lake, eutrophic level	4258
23	3593	<i>Daphnia magna</i>	10108642	0.146	LC50/ITX//	1 d	LAB/S/I	2	74	7.3	20		12311
23	3594	<i>Daphnia magna</i>	10108642	0.055	LC50/ITX//	2 d	LAB/S/I	2	76	7.3	20		12311
23	3608	<i>Daphnia magna</i>	10108642	0.059	LC50/ITX//	<4 h	LAB/S/I	2	76	7.3	20		12311
23	3609	<i>Daphnia magna</i>	10108642	0.084	LC50/ITX//	<4 h	LAB/S/I	2	74	7.3	20		12311
23	3612	<i>Daphnia magna</i>	10108642	0.071	LC50/ITX//	<4 h	LAB/S/I	2	76	7.3	20	tested in 1000 ml beaker	12311
23	3613	<i>Daphnia magna</i>	10108642	0.178	LC50/ITX//	<4 h	LAB/S/I	2	74	7.3	20		12311
23	3614	<i>Daphnia magna</i>	10108642	0.116	LC50/ITX//	<4 h	LAB/S/I	2	74	7.3	20		12311
23	3615	<i>Daphnia magna</i>	10108642	0.101	LC50/ITX//	<4 h	LAB/S/I	2	71	7.3	20		12311
23	3616	<i>Daphnia magna</i>	10108642	0.004	LC50/ITX//	1 d	LAB/S/I	2	71	7.3	20		12311
23	3619	<i>Daphnia magna</i>	10108642	0.094	LC50/ITX//	2 d	LAB/S/I	2	74	7.3	20		12311
23	3620	<i>Daphnia magna</i>	10108642	0.277	LC50/ITX//	2 d	LAB/S/I	2	74	7.3	20		12311
23	3621	<i>Daphnia magna</i>	10108642	0.135	LC50/ITX//	2 d	LAB/S/I	2	71	7.3	20		12311
23	3622	<i>Daphnia magna</i>	10108642	0.017	LC50/ITX//	5 d	LAB/S/I	2	76	7.3	20		12311
23	3623	<i>Daphnia magna</i>	10108642	0.04	LC50/ITX//	5 d	LAB/S/I	2	74	7.3	20		12311
23	3627	<i>Daphnia magna</i>	10108642	0.025	LC50/ITX//	5 d	LAB/S/I	2	76	7.3	20		12311
23	3628	<i>Daphnia magna</i>	10108642	0.036	LC50/ITX//	5 d	LAB/S/I	2	74	7.3	20		12311

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
23	3629	<i>Daphnia magna</i>	10108642	0.018	LC50/ITX//	5 d	LAB/S/I	2	71	7.3	20		12311
23	3630	<i>Daphnia magna</i>	10108642	0.306	LC50/ITX//	2 d	LAB/S/I	2	74	7.3	20		12311
23	3633	<i>Daphnia magna</i>	10108642	0.037	LC50/ITX//	2 d	LAB/S/I	2	76	7.3	20		12311
23	3692	<i>Daphnia magna</i>	10108642	0.166	LC50/MOR//	< 1 d	LAB/S/I	2	67	7.5	20	conductivity 104-165 umhos/cm, complete dilution waterscr	10485
23	3797	<i>Daphnia magna</i>	10108642	0.034	LC50/MOR//	< 1 d	LAB/S/I	2	105	8	18.5	water parameters rpt	3621
23	3806	<i>Daphnia magna</i>	10108642	0.0264	LC50/MOR/INC/	2-3 wk	LAB/S/C	2	78	7.6	21.8	pond water	18420
23	3833	<i>Daphnia magna</i>	10108642	0.066	LC50/MOR/INC/	clone 5, neonate, <24 h >=third	LAB/S/	2	118	7.7	22.2		20667
23	3834	<i>Daphnia magna</i>	10108642	0.069	LC50/MOR/INC/	clone 5, neonate, <24 h >=third	LAB/S/	2	118	7.7	22.2		20667
23	3870	<i>Daphnia magna</i>	10108642	0.039	NOEC/MOR/INC/NOSIG	clone 5, neonate, <24 h >=third	LAB/S/	2	118	7.7	22.2		20667
23	3871	<i>Daphnia magna</i>	10108642	0.05	NOEC/MOR/INC/NOSIG	clone 5, neonate, <24 h >=third	LAB/S/	2	118	7.7	22.2		20667
23	6893	<i>Daphnia magna</i>	10124364	0.106	LC50/MOR/INC/	neonates, clone s-1	LAB/S/C	2	90.7	7.73	20		19146
23	6894	<i>Daphnia magna</i>	10124364	0.0234	LC50/MOR/INC/	neonates, clone a	LAB/S/C	2	90.7	7.73	20		19146
23	4266	<i>Hydra vulgaris</i>	10108642	0.17	EC50/FDB/DEC/	polyps, budding, non-budding	LAB/R/C	2	108	7.45	20		18616
23	4268	<i>Hydra vulgaris</i>	10108642	0.45	LC50/MOR/INC/	polyps, budding, non-budding	LAB/R/C	2	108	7.5	20		18616
23	4269	<i>Hydra vulgaris</i>	10108642	0.23	LC50/MOR/INC/	polyps, budding, non-budding	LAB/R/C	3	108	7.5	20		18616
23	7459	<i>Macrobrachium rosenbergii</i>	10124364	0.035	/BEH//	2.4-5.16 g, juvenile	LAB/R/S	2.5	92.45	7.5	20		8078
23	4453	<i>Moina macrocopa</i>	10108642	0.042	LC50/MOR//	2 d	LAB/S/I	2	82	7.5	22		3619
23	4454	<i>Moina macrocopa</i>	10108642	0.083	LC50/MOR//	2 d	LAB/S/I	2	82	7.5	22		3619
23	4455	<i>Moina macrocopa</i>	10108642	0.076	LC50/MOR//	2 d	LAB/S/I	2	82	7.5	22		3619
23	4456	<i>Moina macrocopa</i>	10108642	0.084	LC50/MOR//	2 d	LAB/S/I	2	82	7.5	22		3619
23	4457	<i>Moina macrocopa</i>	10108642	0.027	LC50/MOR//	2 d	LAB/S/I	3	82	7.5	22		3619
23	4458	<i>Moina macrocopa</i>	10108642	0.03	LC50/MOR//	2 d	LAB/S/I	3	82	7.5	22		3619
23	4459	<i>Moina macrocopa</i>	10108642	0.029	LC50/MOR//	2 d	LAB/S/I	3	82	7.5	22		3619
23	4460	<i>Moina macrocopa</i>	10108642	0.026	LC50/MOR//	2 d	LAB/S/I	3	82	7.5	22		3619
23	7087	<i>Philodina acuticornis</i>	10124364	0.8	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
23	7090	<i>Philodina acuticornis</i>	10124364	1.4	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
23	5296	<i>Ranatra elongata</i>	10108642	0.438	LC50/MOR/INC/		LAB//C	2	112.4	7.5	26		11919
23	5297	<i>Ranatra elongata</i>	10108642	0.355	LC50/MOR/INC/		LAB//C	3	112.4	7.5	26		11919
23	5355	<i>Simocephalus serrulatus</i>	10108642	0.123	LC50/MOR//	< 1 d	LAB/S/I	2	67	7.5	20	conductivity 104-165 umhos/cm, complete dilution waters	10485
23	5357	<i>Simocephalus vetulus</i>	10108642	0.0893	LC50/MOR//	< 1 d	LAB/S/I	2	67	7.5	20	conductivity 104-165 umhos/cm, complete dilution waterress	10485
23	7684	<i>Tetrahymena pyriformis</i>	10325947	0.165	LC50/ITX//	162 cells/ml	LAB/S/I	2	101.5	7.89	27.6		3432
24	<i>Invertebrates exposed to cadmium in moderately hard water at >15degC over <=1 day exposure</i>												
24	7524	<i>Biomphalaria glabrata</i>	10325947	48.93	LC50/MOR/INC/	100 d, 14 mm diameter	LAB/S/I	0.33	100	7.8	21		5268
24	7525	<i>Biomphalaria glabrata</i>	10325947	10	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	0.58	100	7.8	21		5268
24	7526	<i>Biomphalaria glabrata</i>	10325947	9	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	0.75	100	7.8	21		5268
24	7527	<i>Biomphalaria glabrata</i>	10325947	4.8	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	1	100	7.8	21		5268
24	3172	<i>Brachionus rubens</i>	10108642	0.81	LC50/MOR//	neonate, female, 136 um x 89 um	LAB/S/S	1	90	7.6	25		310
24	3173	<i>Brachionus rubens</i>	10108642	0.28	NOEC/MOR//	neonate, female, 136 um x 89 um	LAB/S/S	1	90	7.6	25		310
24	3213	<i>Caenorhabditis elegans</i>	10108642	21	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	1	85	7.8	20	recon water	19999
24	3214	<i>Caenorhabditis elegans</i>	10108642	25	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	1	85	7.8	20	recon water, fed	19999
24	3216	<i>Caenorhabditis elegans</i>	10108642	4	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	1	85	7.8	20	mineral water	19999
24	3217	<i>Caenorhabditis elegans</i>	10108642	7	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	1	85	7.8	20	mineral water, fed	19999
24	2825	<i>Chironomus thummi</i>	7440439	1.11	/DVP//	first instar	LAB/S/I	0.23	100.5	7.7	20		3958
24	2826	<i>Chironomus thummi</i>	7440439	1.089	/DVP//	fourth instar	LAB/S/I	0.23	100.5	7.7	20		3958
24	7410	<i>Corbicula manilensis</i>	10124364	0.25	/BEH//		LAB/R/S	1	75	7	25	conductivity, 140-155 umhos, ion profile	12874

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
24	7585	<i>Daphnia magna</i>	10325947	0.12	LC50/ITX//	adult, 1 mm	LAB/S/I	1	100	7.8	18		5268
24	7586	<i>Daphnia magna</i>	10325947	0.22	LC50/MOR//	24 h	LAB/S/I	1	70	7.65	21		5718
24	4267	<i>Hydra vulgaris</i>	10108642	0.89	LC50/MOR/INC/	polyps, budding, non-budding	LAB/R/C	1	108	7.5	20		18616
24	7086	<i>Philodina acuticornis</i>	10124364	4.5	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019
24	7091	<i>Philodina acuticornis</i>	10124364	4.8	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019
24	5295	<i>Ranatra elongata</i>	10108642	0.497	LC50/MOR/INC/		LAB//C	1	112.4	7.5	26		11919
24	5362	<i>Streptocephalus proboscideus</i>	10108642	0.46	LC50/MOR/INC/	instar ii-iii nauplii	LAB/S/C	1	90	7.9	25		14250
24	5363	<i>Streptocephalus proboscideus</i>	10108642	0.51	LC50/MOR/INC/	instar ii-iii nauplii	LAB/S/C	1	90	7.6	25		14250
25	Invertebrates exposed to cadmium in soft water at <15degC over 3-30 days exposure												
25	3130	<i>Asellus aquaticus</i>	10108642	1.32	LC50/ITX//	adult, 7 mm, 1.5 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
25	3436	<i>Crangonyx pseudogracilis</i>	10108642	1.7	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
25	4068	<i>Ephemera</i>	10108642	0.003	LC50/ITX//	5-8 mm	LAB/F/I	28	46	7.4	15		2104
25	4069	<i>Ephemera</i>	10108642	0.003	LOEC/ITX//	5-8 mm	LAB/F/I	28	45	7.4	15		2104
25	4130	<i>Gammarus pseudolimnaeus</i>	10108642	0.022	LC50/MOR/INC/		LAB/S/I	4	47.4	7.5	15	lake superior water	3690
25	4219	<i>Hyalella azteca</i>	10108642	0.023	LC50/MOR/INC/		LAB/S/I	4	47.4	7.5	15	lake superior water	3690
25	4220	<i>Hyalella azteca</i>	10108642	0.05	LC50/MOR/INC/		LAB/S/I	4	47.4	7.5	15	lake superior water	3690
25	6273	<i>Hydropsyche betteni</i>	10108642	0.1618	/BEH//	5-8 mm	LAB/F/S	28	46	7.4	15		2104
25	5078	<i>Physa integra</i>	10108642	0.114	LC50/ITX//	6-15 mm	LAB/F/I	7	46	7.4	15		2104
25	5079	<i>Physa integra</i>	10108642	0.0104	LC50/ITX//	6-15 mm	LAB/F/I	28	46	7.4	15		2104
25	5080	<i>Physa integra</i>	10108642	0.0275	LOEC/ITX//	6-15 mm	LAB/F/I	28	45	7.4	15		2104
25	7345	<i>Varichaeta pacifica</i>	10124364	0.38	LC50/MOR/INC/		LAB/R/C	4	5.3	7	10		10601
26	Invertebrates exposed to cadmium in soft water at >15degC over 3-30 days exposure												
26	3052	<i>Acrossocheilus paradoxus</i>	10108642	0.2918	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	4	34	7.35	22		18913
26	2163	<i>Amnicola</i>	7440439	3.8	LC50/MOR//	egg	LAB/S/I	4	50	7.6	17		2020
26	2165	<i>Amnicola</i>	7440439	8.4	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
26	3094	<i>Amphipoda</i>	10108642	0.061	LC50/ITX/INC/	1-4 mm, chaet ocorophium lucasi	LAB//	4	10	7.6	20	waihou river water	15048
26	3123	<i>Aplexa hypnorum</i>	10108642	0.093	LC50/MOR//	adult	LAB/F/I	4	44.4	7.45	17.3		10775
26	5529	<i>Aplexa hypnorum</i>	10108642	0.0129	NR-LETH/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	5991	<i>Aplexa hypnorum</i>	10108642	0.0015	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
26	5992	<i>Aplexa hypnorum</i>	10108642	0.0024	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	5993	<i>Aplexa hypnorum</i>	10108642	0.0044	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	5994	<i>Aplexa hypnorum</i>	10108642	0.0076	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	5995	<i>Aplexa hypnorum</i>	10108642	0.0132	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	5996	<i>Aplexa hypnorum</i>	10108642	0.0015	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	5997	<i>Aplexa hypnorum</i>	10108642	0.0025	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	5998	<i>Aplexa hypnorum</i>	10108642	0.0048	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	5999	<i>Aplexa hypnorum</i>	10108642	0.0072	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	6000	<i>Aplexa hypnorum</i>	10108642	0.0076	/GRO//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	6001	<i>Aplexa hypnorum</i>	10108642	0.0048	/GRO//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	6002	<i>Aplexa hypnorum</i>	10108642	0.0044	/REP//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	6003	<i>Aplexa hypnorum</i>	10108642	0.0076	/REP//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	6004	<i>Aplexa hypnorum</i>	10108642	0.0025	/REP//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	6005	<i>Aplexa hypnorum</i>	10108642	0.0048	/REP//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
26	3279	<i>Ceriodaphnia dubia</i>	10108642	0.0169	LC50/MOR/INC/	2-3 wk	LAB/S/C	4	17	6.6	22		18420
26	3280	<i>Ceriodaphnia dubia</i>	10108642	0.0116	LC50/MOR/INC/	2-3 wk	LAB/S/C	7	17	6.6	22		18420
26	3281	<i>Ceriodaphnia dubia</i>	10108642	0.0106	LC50/MOR/INC/	2-3 wk	LAB/S/C	10	17	6.6	22		18420
26	3282	<i>Ceriodaphnia dubia</i>	10108642	0.0101	LC50/MOR/INC/	2-3 wk	LAB/S/C	14	17	6.6	22		18420
26	3289	<i>Ceriodaphnia dubia</i>	10108642	0.013	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
26	3290	<i>Ceriodaphnia dubia</i>	10108642	0.004	LOEC/REP/DEC/SIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
26	3291	<i>Ceriodaphnia dubia</i>	10108642	0.013	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
26	3292	<i>Ceriodaphnia dubia</i>	10108642	0.004	LOEC/REP/DEC/SIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
26	3293	<i>Ceriodaphnia dubia</i>	10108642	0.013	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
26	3294	<i>Ceriodaphnia dubia</i>	10108642	0.004	LOEC/REP/DEC/SIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
26	3311	<i>Ceriodaphnia dubia</i>	10108642	0.01	NOEC/MOR/INC/NOSIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
26	3312	<i>Ceriodaphnia dubia</i>	10108642	0.001	NOEC/REP/NEF/NOSIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
26	3313	<i>Ceriodaphnia dubia</i>	10108642	0.01	NOEC/MOR/INC/NOSIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
26	3314	<i>Ceriodaphnia dubia</i>	10108642	0.001	NOEC/REP/NEF/NOSIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
26	3315	<i>Ceriodaphnia dubia</i>	10108642	0.01	NOEC/MOR/INC/NOSIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
26	3316	<i>Ceriodaphnia dubia</i>	10108642	0.001	NOEC/REP/NEF/NOSIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
26	5555	<i>Ceriodaphnia dubia</i>	10108642	0.016	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	14	17	6.6	22		18420
26	6783	<i>Ceriodaphnia reticulata</i>	10124364	0.82	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
26	5561	<i>Chaoborus punctipennis</i>	10108642	0.55	/BCM/CHG/MULT	90-130 mm	LAB/R/C	4	10.49	6.3	27		16833
26	2277	<i>Chironomus</i>	7440439	1.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
26	3354	<i>Chironomus tentans</i>	10108642	8	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	4	17	6.6	22		18420

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
26	3355	<i>Chironomus tentans</i>	10108642	1.7	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	7	17	6.6	22		18420
26	3356	<i>Chironomus tentans</i>	10108642	0.963	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
26	3357	<i>Chironomus tentans</i>	10108642	0.635	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
26	3358	<i>Chironomus tentans</i>	10108642	1	LOEC/MOR/INC/SIG	2nd instar larvae, 10 d	LAB/S/C	7	17	6.6	22		18420
26	3359	<i>Chironomus tentans</i>	10108642	0.5	LOEC/GRO/DEC/SIG	2nd instar larvae, 10 d	LAB/S/C	7	17	6.6	22		18420
26	3360	<i>Chironomus tentans</i>	10108642	0.5	LOEC/MOR/INC/SIG	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
26	3361	<i>Chironomus tentans</i>	10108642	0.5	LOEC/GRO/DEC/SIG	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
26	3362	<i>Chironomus tentans</i>	10108642	1	LOEC/MOR/INC/SIG	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
26	3363	<i>Chironomus tentans</i>	10108642	0.1	LOEC/GRO/DEC/SIG	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
26	3364	<i>Chironomus tentans</i>	10108642	0.5	NOEC/MOR/NEF/NOSIG	2nd instar larvae, 10 d	LAB/S/C	7	17	6.6	22		18420
26	3365	<i>Chironomus tentans</i>	10108642	0.5	NOEC/GRO/NEF/NOSIG	2nd instar larvae, 10 d	LAB/S/C	7	17	6.6	22		18420
26	3366	<i>Chironomus tentans</i>	10108642	0.5	NOEC/MOR/INC/NOSIG	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
26	3367	<i>Chironomus tentans</i>	10108642	0.5	NOEC/GRO/NEF/NOSIG	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
26	3368	<i>Chironomus tentans</i>	10108642	0.5	NOEC/MOR/NEF/NOSIG	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
26	3369	<i>Chironomus tentans</i>	10108642	0.1	NOEC/GRO/NEF/NOSIG	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
26	5572	<i>Chironomus tentans</i>	10108642	0.0025	NR-LETH/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	10	17	6.6	22		18420
26	5573	<i>Chironomus tentans</i>	10108642	0.002	NR-LETH/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	14	17	6.6	22		18420
26	3428	<i>Copepoda</i>	10108642	0.047	LC50/MOR/INC/	4 species	LAB/R/C	4	20	6.4	23		18172
26	3429	<i>Copepoda</i>	10108642	0.051	LC50/MOR/INC/	4 species	LAB/R/C	4	20	6.4	23		18172
26	5602	<i>Copepoda</i>	10108642	0.056	NR-LETH/MOR/INC/	4 species	LAB/R/C	4	20	6.4	23		18172
26	5603	<i>Copepoda</i>	10108642	0.01	NR-ZERO/MOR/NEF/	4 species	LAB/R/C	4	20	6.4	23		18172
26	6824	<i>Daphnia carinata</i>	10124364	0.062	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
26	7411	<i>Daphnia carinata</i>	10124364	0.1	/HIS/CHG/	adult	LAB//C	10	37.6	7.3	26.75		45139

mg total metal/L, hardness in mg CaCO3/L

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26	3666	<i>Daphnia magna</i>	10108642	0.005	LC50/ITX//	12 h	LAB/S/I	21	45.3	7.74	18	see paper	2022
26	3667	<i>Daphnia magna</i>	10108642	0.0007	EC50/REP//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
26	6190	<i>Daphnia magna</i>	10108642	0.0004	/REP//		LAB/R/I	21	45	7.8	18		11698
26	2405	<i>Dugesia tigrina</i>	7440439	2.25	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
26	6940	<i>Dugesia tigrina</i>	10124364	2.2	LC50/MOR//		LAB/S/I	4	40	7.5	23	for other water chemistry see paper	6154
26	4046	<i>Echinogammarus echinosetosus</i>	10108642	0.48	LC50/MOR/INC/		LAB/R/C	4	27	7.2	22		20393
26	2424	<i>Gammarus</i>	7440439	0.07	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
26	4134	<i>Gammarus pseudolimnaeus</i>	10108642	0.0683	LC50/MOR//	0.1 g	LAB/S/I	4	43.5	7.45	17	acidity, conductivity 136-167 umhoscm	10485
26	6945	<i>Heliodiaptomus viduus</i>	10124364	0.06	LC50/MOR/INC/	adult	LAB/C	4	37.6	7.3	26.75		45139
26	6261	<i>Helisoma</i>	10108642	0.211	/MOR//		LAB/F/I	10	44.5	7.95	21.5		3919
26	4225	<i>Hyalella azteca</i>	10108642	0.0028	LC50/MOR/INC/	2-3 wk	LAB/S/C	4	17	6.6	22		18420
26	4226	<i>Hyalella azteca</i>	10108642	0.0017	LC50/MOR/INC/	2-3 wk	LAB/S/C	7	17	6.6	22		18420
26	4227	<i>Hyalella azteca</i>	10108642	0.0012	LC50/MOR/INC/	2-3 wk	LAB/S/C	10	17	6.6	22		18420
26	4228	<i>Hyalella azteca</i>	10108642	0.0007	LC50/MOR/INC/	2-3 wk	LAB/S/C	14	17	6.6	22		18420
26	4256	<i>Hyalella azteca</i>	10108642	0.002	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
26	4257	<i>Hyalella azteca</i>	10108642	0.002	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
26	4258	<i>Hyalella azteca</i>	10108642	0.0003	LOEC/MOR/INC/SIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
26	4259	<i>Hyalella azteca</i>	10108642	0.002	LOEC/GRO/DEC/SIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
26	4261	<i>Hyalella azteca</i>	10108642	0.001	NOEC/MOR/NEF/NOSIG	2-3 wk	LAB/S/C	7	17	6.6	22		18420
26	4262	<i>Hyalella azteca</i>	10108642	0.001	NOEC/MOR/INC/NOSIG	2-3 wk	LAB/S/C	10	17	6.6	22		18420
26	4263	<i>Hyalella azteca</i>	10108642	0.0001	NOEC/MOR/INC/NOSIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
26	4264	<i>Hyalella azteca</i>	10108642	0.002	NOEC/GRO/NEF/NOSIG	2-3 wk	LAB/S/C	14	17	6.6	22		18420
26	5689	<i>Hyalella azteca</i>	10108642	0.004	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	7	17	6.6	22		18420
26	5690	<i>Hyalella azteca</i>	10108642	0.004	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	10	17	6.6	22		18420
26	6270	<i>Hyalella azteca</i>	10108642	0.006	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	4	17	6.6	22		18420
26	4381	<i>Lumbriculus variegatus</i>	10108642	0.15	LC50/ITX/INC/	10-30 mm	LAB//	4	10	7.6	20	waihou river water	15048
26	4383	<i>Lumbriculus variegatus</i>	10108642	0.074	LC50/MOR/INC/		LAB/S/C	4	30	7.5	20		6502
26	5716	<i>Lumbriculus variegatus</i>	10108642	0.278	NR-LETH/MOR//	adult	LAB/F/I	10	44.5	7.95	21.5		3919
26	7047	<i>Mesocyclops hyalinus</i>	10124364	0.25	LC50/MOR/INC/	adult	LAB/C	4	37.6	7.3	26.75		45139

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
26	4438	<i>Moina irrasa</i>	10108642	0.0096	LC50/MOR/INC/	neonate, <24 h	LAB/S/	4	5	6.5	20		13762
26	4439	<i>Moina irrasa</i>	10108642	0.0025	LC50/MOR/INC/	neonate, <24 h	LAB/S/	4	5	8	20		13762
26	7055	<i>Moina macrocopa</i>	10124364	0.0725	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
26	2470	<i>Nais</i>	7440439	1.7	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
26	4978	<i>Orconectes immunis</i>	10108642	10.2	LC50/MOR//	1.8 g	LAB/F/I	4	44.4	7.45	17.3		10775
26	4987	<i>Orconectes virilis</i>	10108642	6.1	LC50/MOR//	14.0-67.0 g,	LAB/F/S	4	26	6.9	20	cu, pb, zn	11976
26	4988	<i>Orconectes virilis</i>	10108642	1.8	LC50/MOR//	14.0-67.0 g,	LAB/F/S	7	26	6.9	20	cu, pb, zn	11976
26	4989	<i>Orconectes virilis</i>	10108642	1	LC50/MOR//	14.0-67.0 g,	LAB/F/S	10	26	6.9	20	cu, pb, zn	11976
26	4990	<i>Orconectes virilis</i>	10108642	0.7	LC50/MOR//	14.0-67.0 g,	LAB/F/S	14	26	6.9	20	cu, pb, zn	11976
26	4991	<i>Orconectes virilis</i>	10108642	0.06	LC50/MOR//	14.0-67.0 g,	LAB/F/S	14	26	6.9	20	cu, pb, zn	11976
26	5846	<i>Oziotelphusa senex senex</i>	10108642	0.1	/BCM/CHG/NOSIG	adult, 30-32 g	LAB/R/S	4	35	7.1	30		13745
26	5847	<i>Oziotelphusa senex senex</i>	10108642	0.1	/BCM/CHG/NOSIG	adult, 30-32 g	LAB/R/S	4	35	7.1	30		13745
26	5040	<i>Philodina acuticornis</i>	10108642	0.5	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
26	5041	<i>Philodina acuticornis</i>	10108642	0.5	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
26	7094	<i>Philodina acuticornis</i>	10124364	0.2	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
26	7095	<i>Philodina acuticornis</i>	10124364	0.1	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
26	5266	<i>Procambarus clarkii</i>	10108642	1.04	LC50/MOR//	juveniles, 1-1.5 cm	LAB/R/S	4	30.32	7.4	22		6937
26	7679	<i>Simocephalus serrulatus</i>	10325947	0.0086	LC50/MOR//	< 24 h, neonate	LAB/S/U	4	9.7	6.5	22	see paper for more water chemistry parameters	2024
26	7316	<i>Stenocypris malcolmsoni</i>	10124364	3.1	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
26	5364	<i>Tanytarsus dissimilis</i>	10108642	0.0038	LC50/MOR//	eggs through 2nd or 3rd instar	LAB/S/U	10	46.8	7.5	22		5249
26	2571	<i>Trichoptera</i>	7440439	3.4	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
26	2573	<i>Zygoptera</i>	7440439	8.1	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
27	Invertebrates exposed to cadmium in soft water at >15degC over 1-3 days exposure												
27	3051	<i>Acrossocheilus paradoxus</i>	10108642	0.3705	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	2	34	7.35	22		18913
27	3278	<i>Ceriodaphnia dubia</i>	10108642	0.0631	LC50/MOR/INC/	2-3 wk	LAB/S/C	2	17	6.6	22		18420
27	5554	<i>Ceriodaphnia dubia</i>	10108642	0.09	NR-LETH/MOR/INC/	2-3 wk	LAB/S/C	2	17	6.6	22		18420
27	6782	<i>Ceriodaphnia reticulata</i>	10124364	1.9	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
27	6784	<i>Ceriodaphnia reticulata</i>	10124364	0.45	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
27	6785	<i>Ceriodaphnia reticulata</i>	10124364	0.08	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
27	3353	<i>Chironomus tentans</i>	10108642	29.56	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	2	17	6.6	22		18420
27	3393	<i>Chydorus sphaericus</i>	10108642	0.431	LC50/ITX/INC/	adult, >0.30 mm	LAB/S/S	2	11.7	6.48	18	organism from non polluted lake, mesotrophic level	4258
27	3394	<i>Chydorus sphaericus</i>	10108642	0.288	LC50/ITX/INC/	adult, >0.30 mm	LAB/S/S	2	10.5	6.41	18	organism from pristine lake, dystrophic level	4258
27	3396	<i>Chydorus sphaericus</i>	10108642	0.56	LC50/ITX/INC/	juvenile, <0.30 mm	LAB/S/S	2	11.7	6.48	18	organism from non polluted lake, mesotrophic level	4258
27	3397	<i>Chydorus sphaericus</i>	10108642	0.244	LC50/ITX/INC/	juvenile, <0.30 mm	LAB/S/S	2	10.5	6.41	18	organism from pristine lake, dystrophic level	4258
27	3430	<i>Copepoda</i>	10108642	0.058	LC50/MOR/INC/	4 species	LAB/R/C	2	20	6.4	23		18172
27	5631	<i>Cypris</i>	10108642	0.01	NR-LETH/MOR/INC/		LAB/R/C	2.08	20	6.4	27		18172
27	6823	<i>Daphnia carinata</i>	10124364	0.28	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
27	6825	<i>Daphnia carinata</i>	10124364	0.045	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
27	6826	<i>Daphnia carinata</i>	10124364	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
27	2389	<i>Daphnia magna</i>	7440439	0.036	LC50/MOR//	<= 24 h	LAB/S/S	2	29	7.8	19.5	complete dilution water profile given	10929
27	2390	<i>Daphnia magna</i>	7440439	0.033	LC50/MOR//	<= 24 h	LAB/S/U	2	29	7.8	19.5	complete dilution water profile given	10929
27	2391	<i>Daphnia magna</i>	7440439	0.024	LC50/MOR//	<= 24 h	LAB/S/S	2	29	6.65	19.5	complete dilution water profile given	10929
27	2392	<i>Daphnia magna</i>	7440439	0.04	LC50/MOR//	<= 24 h	LAB/S/S	2	29	6.65	19.5	complete dilution water profile given	10929
27	2393	<i>Daphnia magna</i>	7440439	0.062	LC50/MOR//	<= 24 h	LAB/S/S	2	29	7.5	20	complete dilution water profile given	10929
27	2394	<i>Daphnia magna</i>	7440439	0.036	LC50/MOR//	<= 24 h	LAB/S/S	2	29	7.8	19.5	complete dilution water profile given	10929
27	3600	<i>Daphnia magna</i>	10108642	0.109	LC50/ITX//	<4 h	LAB/S/I	2	54	7.3	20		12311
27	3601	<i>Daphnia magna</i>	10108642	0.046	LC50/ITX//	<24 h	LAB/S/I	2	54	7.3	20		12311
27	3603	<i>Daphnia magna</i>	10108642	0.164	LC50/ITX//	2 d	LAB/S/I	2	54	7.3	20		12311
27	3604	<i>Daphnia magna</i>	10108642	0.063	LC50/ITX//	3 d	LAB/S/I	2	54	7.3	20		12311

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
27	3605	<i>Daphnia magna</i>	10108642	0.082	LC50/ITX//	4 d	LAB/S/I	2	54	7.3	20		12311
27	3606	<i>Daphnia magna</i>	10108642	0.049	LC50/ITX//	5 d	LAB/S/I	2	54	7.3	20		12311
27	3607	<i>Daphnia magna</i>	10108642	0.023	LC50/ITX//	6 d	LAB/S/I	2	54	7.3	20		12311
27	3610	<i>Daphnia magna</i>	10108642	0.099	LC50/ITX//	<4 h	LAB/S/I	2	41	7.3	20		12311
27	3611	<i>Daphnia magna</i>	10108642	0.164	LC50/ITX//	<4 h	LAB/S/I	2	38	7.3	20		12311
27	3617	<i>Daphnia magna</i>	10108642	0.008	LC50/ITX//	1 d	LAB/S/I	2	41	7.3	20		12311
27	3618	<i>Daphnia magna</i>	10108642	0.064	LC50/ITX//	1 d	LAB/S/I	2	38	7.3	20		12311
27	3624	<i>Daphnia magna</i>	10108642	0.03	LC50/ITX//	5 d	LAB/S/I	2	41	7.3	20		12311
27	3625	<i>Daphnia magna</i>	10108642	0.092	LC50/ITX//	5 d	LAB/S/I	2	38	7.3	20		12311
27	3626	<i>Daphnia magna</i>	10108642	0.131	LC50/ITX//	5 d	LAB/S/I	2	38	7.3	20		12311
27	3631	<i>Daphnia magna</i>	10108642	0.098	LC50/ITX//	2 d	LAB/S/I	2	41	7.3	20		12311
27	3632	<i>Daphnia magna</i>	10108642	0.307	LC50/ITX//	2 d	LAB/S/I	2	38	7.3	20		12311
27	3636	<i>Daphnia magna</i>	10108642	0.016	LC50/ITX//	1 d	LAB/S/I	2	38	7.3	20		12311
27	3665	<i>Daphnia magna</i>	10108642	0.065	LC50/ITX//	12 h	LAB/S/I	2	45.3	7.74	18	see paper	2022
27	3795	<i>Daphnia magna</i>	10108642	0.0099	LC50/MOR//	< 1 d	LAB/S/I	2	51	7.5	20.3	water parameters rpt	3621
27	3815	<i>Daphnia magna</i>	10108642	0.035	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
27	3816	<i>Daphnia magna</i>	10108642	0.045	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
27	3817	<i>Daphnia magna</i>	10108642	0.06	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
27	3818	<i>Daphnia magna</i>	10108642	0.055	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
27	3819	<i>Daphnia magna</i>	10108642	0.075	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
27	3820	<i>Daphnia magna</i>	10108642	0.065	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
27	3821	<i>Daphnia magna</i>	10108642	0.06	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
27	3822	<i>Daphnia magna</i>	10108642	0.055	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
27	3823	<i>Daphnia magna</i>	10108642	0.05	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	8.3	6.5	20		15821
27	3824	<i>Daphnia magna</i>	10108642	0.15	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	20.17	6.5	20		15821
27	3825	<i>Daphnia magna</i>	10108642	0.15	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	50.43	6.5	20		15821
27	3829	<i>Daphnia magna</i>	10108642	0.05	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	20.17	6.5	20		15821
27	3830	<i>Daphnia magna</i>	10108642	0.15	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	50.43	6.5	20		15821
27	6891	<i>Daphnia magna</i>	10124364	0.112	LC50/MOR/INC/	neonates, clone s-1	LAB/S/C	2	46.1	7.2	20		19146
27	6892	<i>Daphnia magna</i>	10124364	0.0301	LC50/MOR/INC/	neonates, clone a	LAB/S/C	2	46.1	7.2	20		19146
27	3962	<i>Daphnia pulex</i>	10108642	0.071	LC50/MOR/INC/	>=6 d	LAB/S/C	2	46	7.5	21		3402
27	6939	<i>Dugesia tigrina</i>	10124364	6.75	LC50/MOR//		LAB/S/I	2	40	7.5	23	for other water chemistry see paper	6154
27	6231	<i>Echinogammarus echinosetosus</i>	10108642	1.05	/BCM/INC/		LAB/R/C	1.5	27	7.2	22		20393

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
27	6944	<i>Heliodiaptomus viduus</i>	10124364	0.15	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
27	6946	<i>Heliodiaptomus viduus</i>	10124364	0.045	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
27	6947	<i>Heliodiaptomus viduus</i>	10124364	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
27	4224	<i>Hyalella azteca</i>	10108642	0.0056	LC50/MOR/INC/	2-3 wk	LAB/S/C	2	17	6.6	22		18420
27	4382	<i>Lumbriculus variegatus</i>	10108642	0.12	LC50/MOR/INC/		LAB/S/C	2	30	7.5	20		6502
27	7046	<i>Mesocyclops hyalinus</i>	10124364	0.87	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
27	7048	<i>Mesocyclops hyalinus</i>	10124364	0.08	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
27	7049	<i>Mesocyclops hyalinus</i>	10124364	0.045	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
27	4433	<i>Moina irrasa</i>	10108642	0.025	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	20		13762
27	4435	<i>Moina irrasa</i>	10108642	0.0135	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	6.5	20		13762
27	4436	<i>Moina irrasa</i>	10108642	0.0075	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	8	20		13762
27	4443	<i>Moina irrasa</i>	10108642	0.0053	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	25		13762
27	4444	<i>Moina irrasa</i>	10108642	0.0331	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	8	25		13762
27	4445	<i>Moina irrasa</i>	10108642	0.0117	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	8	25		13762
27	4447	<i>Moina irrasa</i>	10108642	0.021	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	6.5	30		13762
27	4448	<i>Moina irrasa</i>	10108642	0.0689	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	8	30		13762
27	4449	<i>Moina irrasa</i>	10108642	0.0153	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	8	20		13762
27	7054	<i>Moina macrocopa</i>	10124364	0.32	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
27	7056	<i>Moina macrocopa</i>	10124364	0.045	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
27	7057	<i>Moina macrocopa</i>	10124364	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
27	5039	<i>Philodina acuticornis</i>	10108642	1.4	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
27	5042	<i>Philodina acuticornis</i>	10108642	1.5	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
27	7093	<i>Philodina acuticornis</i>	10124364	2	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
27	7096	<i>Philodina acuticornis</i>	10124364	0.5	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
27	5356	<i>Simocephalus serrulatus</i>	10108642	0.0245	LC50/MOR//	< 1 d	LAB/S/I	2	43.5	7.45	20	acidity, conductivity 136-167 umhos/cm	10485

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
27	7674	<i>Simocephalus serrulatus</i>	10325947	0.007	LC50/MOR//	< 24 h, neonate	LAB/S/S	2	9.7	6.5	22	see paper for more water chemistry parameters	2024
27	7676	<i>Simocephalus serrulatus</i>	10325947	0.0035	LC50/MOR//	< 24 h, neonate	LAB/S/S	2	9.7	6.5	22	see paper for more water chemistry parameters	2024
27	7677	<i>Simocephalus serrulatus</i>	10325947	0.012	LC50/MOR//	< 24 h, neonate	LAB/S/S	2	9.7	6.5	22	see paper for more water chemistry parameters	2024
27	7678	<i>Simocephalus serrulatus</i>	10325947	0.0165	LC50/MOR//	< 24 h, neonate	LAB/S/S	2	9.7	6.5	22	see paper for more water chemistry parameters	2024
27	7681	<i>Spirostomum ambiguum</i>	10325947	0.145	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
27	7683	<i>Spirostomum ambiguum</i>	10325947	0.168	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
27	7315	<i>Stenocypris malcolmsoni</i>	10124364	11.5	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
27	7317	<i>Stenocypris malcolmsoni</i>	10124364	4.5	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
27	7318	<i>Stenocypris malcolmsoni</i>	10124364	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
27	7331	<i>Tubifex tubifex</i>	10124364	0.045	LC50/MOR//		LAB/R/S	2	34.2	7.2	20	mg, po4 and ca	8905
27	7335	<i>Tubifex tubifex</i>	10124364	0.0028	LC50/MOR//		LAB/R/S	2	0.1	6.3	20		8905
27	7337	<i>Tubifex tubifex</i>	10124364	0.031	LC50/MOR//		LAB/R/S	2	34.2	6.85	20	mg, po4 and ca	8905
28	Invertebrates exposed to cadmium in soft water at >15degC over <=1 day exposure												
28	3050	<i>Acrossocheilus paradoxus</i>	10108642	0.5546	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
28	5518	<i>Acrossocheilus paradoxus</i>	10108642	1	NR-LETH/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
28	2162	<i>Amnicola</i>	7440439	5.1	LC50/MOR//	egg	LAB/S/I	1	50	7.6	17		2020
28	2164	<i>Amnicola</i>	7440439	10.1	LC50/MOR//	adult	LAB/S/I	1	50	7.6	17		2020
28	3166	<i>Brachionus calyciflorus</i>	10108642	0.65	LC50/MOR//	juvenile	LAB/S/S	1	36.2	7.3	20		3091
28	2248	<i>Ceriodaphnia dubia</i>	7440439	0.023	IC50/REP/DEC/		LAB/S/C	1	20	6.95	25		45106
28	2249	<i>Ceriodaphnia dubia</i>	7440439	0.019	IC50/REP/DEC/		LAB/S/C	1	22	7	25		45106
28	2250	<i>Ceriodaphnia dubia</i>	7440439	0.041	LOEC/MOR/DEC/SIG		LAB/S/C	1	20	6.95	25		45106
28	2251	<i>Ceriodaphnia dubia</i>	7440439	0.01	LOEC/REP/DEC/SIG		LAB/S/C	1	20	6.95	25		45106
28	2252	<i>Ceriodaphnia dubia</i>	7440439	0.019	LOEC/REP/DEC/SIG		LAB/S/C	1	22	7	25		45106

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
28	2253	<i>Ceriodaphnia dubia</i>	7440439	0.039	LOEC/MOR/DEC/SIG		LAB/S/C	1	22	7	25		45106
28	2254	<i>Ceriodaphnia dubia</i>	7440439	0.014	MATC/REP/DEC/		LAB/S/C	1	20	6.95	25		45106
28	2255	<i>Ceriodaphnia dubia</i>	7440439	0.015	MATC/REP/DEC/		LAB/S/C	1	22	7	25		45106
28	2256	<i>Ceriodaphnia dubia</i>	7440439	0.019	NOEC/MOR/DEC/NOSIG		LAB/S/C	1	20	6.95	25		45106
28	2257	<i>Ceriodaphnia dubia</i>	7440439	0.019	NOEC/REP/DEC/NOSIG		LAB/S/C	1	20	6.95	25		45106
28	2258	<i>Ceriodaphnia dubia</i>	7440439	0.011	NOEC/REP/DEC/NOSIG		LAB/S/C	1	22	7	25		45106
28	2259	<i>Ceriodaphnia dubia</i>	7440439	0.019	NOEC/MOR/DEC/NOSIG		LAB/S/C	1	22	7	25		45106
28	2276	<i>Chironomus</i>	7440439	5.1	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
28	3527	<i>Cypris</i>	10108642	0.042	LC50/MOR/INC/		LAB/R/C	1	20	6.4	27		18172
28	3528	<i>Cypris</i>	10108642	0.034	LC50/MOR/INC/		LAB/R/C	1	20	6.4	27		18172
28	5630	<i>Cypris</i>	10108642	1	NR-LETH/MOR/INC/		LAB/R/C	0.08	20	6.4	27		18172
28	3602	<i>Daphnia magna</i>	10108642	0.048	LC50/ITX//	1 d	LAB/S/I	1	54	7.3	20		12311
28	3960	<i>Daphnia pulex</i>	10108642	0.3	LC50/MOR/INC/	>=6 d	LAB/S/C	1	46	7.5	21		3402
28	3961	<i>Daphnia pulex</i>	10108642	0.14	LC50/MOR/INC/	>=6 d	LAB/S/C	1	46	7.5	21		3402
28	6938	<i>Dugesia tigrina</i>	10124364	23.3	LC50/MOR//		LAB/S/I	1	40	7.5	23	for other water chemistry see paper	6154
28	2423	<i>Gammarus</i>	7440439	0.14	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
28	5715	<i>Lumbriculus variegatus</i>	10108642	0.5195	NR-LETH/MOR/INC/		LAB/S/I	1	45	6.8	20		13685
28	4430	<i>Moina irrasa</i>	10108642	0.0423	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	20		13762
28	4431	<i>Moina irrasa</i>	10108642	0.084	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	20		13762
28	4441	<i>Moina irrasa</i>	10108642	0.0276	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	25		13762
28	2469	<i>Nais</i>	7440439	4.6	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
28	5038	<i>Philodina acuticornis</i>	10108642	11.5	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
28	5043	<i>Philodina acuticornis</i>	10108642	6.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
28	7092	<i>Philodina acuticornis</i>	10124364	8.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
28	7097	<i>Philodina acuticornis</i>	10124364	5.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
28	7680	<i>Spirostomum ambiguum</i>	10325947	0.16	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
28	7682	<i>Spirostomum ambiguum</i>	10325947	0.197	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
28	2570	<i>Trichoptera</i>	7440439	5.1	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
28	7334	<i>Tubifex tubifex</i>	10124364	0.0037	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
28	7336	<i>Tubifex tubifex</i>	10124364	0.063	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	mg, po4 and ca	8905

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
28	7338	<i>Tubifex tubifex</i>	10124364	0.077	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	mg, po4 and ca	8905
28	7504	<i>Tubifex tubifex</i>	10124364	0.0009	/PHY//		LAB/S/I	0.25	34.2	7.2	20	ca, mg, po4	15584
28	2572	<i>Zygoptera</i>	7440439	11	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
29	<i>Invertebrates exposed to cadmium in very hard water at >15degC over 3-30 days exposure</i>												
29	7534	<i>Branchiura sowerbyi</i>	10325947	58.02	LC50/MOR/INC/	2.0 cm, 2.05 mg	LAB/S/	4	185	7.2	25		19384
29	7535	<i>Branchiura sowerbyi</i>	10325947	48.55	LC50/MOR/INC/	2.0 cm, 2.05 mg	LAB/S/	4	185	7.2	25	30 mgl poultry litter	19384
29	7536	<i>Branchiura sowerbyi</i>	10325947	68.73	LC50/MOR/INC/	2.0 cm, 2.05 mg	LAB/S/	4	185	7.2	25	65 mgl poultry litter	19384
29	7537	<i>Branchiura sowerbyi</i>	10325947	77.56	LC50/MOR/INC/	2.0 cm, 2.05 mg	LAB/S/	4	185	7.2	25	125 mgl poultry litter	19384
29	7538	<i>Branchiura sowerbyi</i>	10325947	85.76	LC50/MOR/INC/	2.0 cm, 2.05 mg	LAB/S/	4	185	7.2	25	250 mgl poultry litter	19384
29	7539	<i>Branchiura sowerbyi</i>	10325947	85.53	LC50/MOR/INC/	2.0 cm, 2.05 mg	LAB/S/	4	185	7.2	25	250 mgl poultry litter	19384
29	7540	<i>Branchiura sowerbyi</i>	10325947	88.78	LC50/MOR/INC/	2.0 cm, 2.05 mg	LAB/S/	4	185	7.2	25	250 mgl poultry litter	19384
29	7541	<i>Branchiura sowerbyi</i>	10325947	86.418	LC50/MOR/INC/	2.0 cm, 2.05 mg	LAB/S/	4	185	7.2	25	250 mgl poultry litter	19384
29	7714	<i>Ceriodaphnia dubia</i>	10325947	0.03	/REP/DEC/MULT	neonates, 12-24 h	LAB/R/C	7	182	7.5	25	water from clinch river, virginia	8661
29	3328	<i>Ceriodaphnia reticulata</i>	10108642	0.0153	LC50/MOR//	larvae - adult	LAB/R/S	7	240	8	23		12258
29	3332	<i>Ceriodaphnia reticulata</i>	10108642	0.0153	EC50/REP//	1st instar larvae, < 24 h	LAB/R/S	7	240	8	23		12258
29	3334	<i>Ceriodaphnia reticulata</i>	10108642	0.0002	LOEC/REP//	first instar, <24 h	LAB/R/S	7	240	8	23		12258
29	3335	<i>Ceriodaphnia reticulata</i>	10108642	0.0086	MATC/REP//	first instar, <24 h	LAB/R/S	7	240	8	23		12258
29	3634	<i>Daphnia magna</i>	10108642	0.0153	LC50/MOR//	larvae - adult	LAB/R/S	14	240	8	23		12258
29	3676	<i>Daphnia magna</i>	10108642	0.0035	EC50/REP//	1st instar larvae, < 24 h	LAB/R/S	14	240	8	23		12258
29	3848	<i>Daphnia magna</i>	10108642	0.0005	LOEC/REP//	first instar, <24 h	LAB/R/S	14	240	8	23		12258
29	3858	<i>Daphnia magna</i>	10108642	0.0026	MATC/REP//	first instar, <24 h	LAB/R/S	14	240	8	23		12258
29	5639	<i>Daphnia magna</i>	10108642	0.0011	/ENZ/CHG/		LAB/R/C	8	250	6.6	20		12155
29	5640	<i>Daphnia magna</i>	10108642	0.0011	/BCM/CHG/		LAB/R/C	8	250	6.6	20		12155
29	6210	<i>Daphnia magna</i>	10108642	0.0011	/GRO/CHG/		LAB/R/C	8	250	6.6	20		12155
29	3873	<i>Daphnia pulex</i>	10108642	0.0153	LC50/MOR//	larvae - adult	LAB/R/S	14	240	8	23		12258
29	3883	<i>Daphnia pulex</i>	10108642	0.0153	EC50/REP//	1st instar larvae, < 24 h	LAB/R/S	14	240	8	23		12258
29	3963	<i>Daphnia pulex</i>	10108642	0.0002	LOEC/REP//	first instar, <24 h	LAB/R/S	14	240	8	23		12258

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
29	3964	<i>Daphnia pulex</i>	10108642	0.0086	MATC/REP//	first instar, <24 h	LAB/R/S	14	240	8	23		12258
29	7598	<i>Diaptomus forbesi</i>	10325947	5.7	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25		19384
29	7599	<i>Diaptomus forbesi</i>	10325947	4.9	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25	30 mg/l poultry litter	19384
29	7600	<i>Diaptomus forbesi</i>	10325947	4.2	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25	65 mg/l poultry litter	19384
29	7601	<i>Diaptomus forbesi</i>	10325947	3.45	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25	125 mg/l poultry litter	19384
29	7602	<i>Diaptomus forbesi</i>	10325947	3.046	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25	250 mg/l mg/l poultry litter	19384
29	7603	<i>Diaptomus forbesi</i>	10325947	3.093	LC50/MOR/INC/	0.58 mm	LAB/S/	4	185	7.2	25	250 mg/l mg/l poultry litter	19384
29	7604	<i>Diaptomus forbesi</i>	10325947	2.996	LC50/MOR/INC/	0.58 cm	LAB/S/	4	185	7.2	25	250 mg/l poultry litter	19384
29	4252	<i>Hyalella azteca</i>	10108642	0.121	LC50/MOR/INC/		LAB/F/C	4	259	8	23	fed	52121
29	4255	<i>Hyalella azteca</i>	10108642	0.106	LC50/MOR/INC/		LAB/F/C	4	259	8	23	starved	52121
29	7620	<i>Hyalella azteca</i>	10325947	0.23	LC50/MOR//	7-14 d	LAB//I	4	290	6.19	25		7289
29	7621	<i>Hyalella azteca</i>	10325947	0.025	LC50/MOR//	7-14 d	LAB//I	4	290	7.495	25		7289
29	4275	<i>Hydra vulgaris</i>	10108642	0.31	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	4	204	7.8	20		50836
29	7626	<i>Lumbriculus variegatus</i>	10325947	0.78	LC50/MOR//	mixed age adults	LAB//I	4	290	6.425	25		7289
29	7627	<i>Lumbriculus variegatus</i>	10325947	0.78	LC50/MOR//	mixed age adults	LAB//I	4	290	7.43	25		7289
29	7038	<i>Lymnaea acuminata</i>	10124364	0.872	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	4	375	7.5	27.5	water chem profile rptd	11099
29	5263	<i>Procambarus clarkii</i>	10108642	58.5	LC50/MOR//	adult, intermolt, 15-20 g	LAB/S/S	4	240	7.25	20		12565
29	5264	<i>Procambarus clarkii</i>	10108642	34.8	LC50/MOR//	adult, intermolt, 15-20 g	LAB/S/S	4	240	7.25	24		12565
29	5265	<i>Procambarus clarkii</i>	10108642	18.4	LC50/MOR//	adult, intermolt, 15-20 g	LAB/S/S	4	240	7.25	28		12565
29	6503	<i>Procambarus clarkii</i>	10108642	1	/ENZ//	adult intermolt, 20.7-30.3 g	LAB/R/S	4	240	7.25	22		3407
30	Invertebrates exposed to cadmium in very hard water at >15degC over 1-3 days exposure												
30	7547	<i>Ceriodaphnia dubia</i>	10325947	0.56	LC50/MOR//	<=48 h	LAB//I	2	290	6.2	25		7289
30	7548	<i>Ceriodaphnia dubia</i>	10325947	0.35	LC50/MOR//	<=48 h	LAB//I	2	290	7.145	25		7289
30	3798	<i>Daphnia magna</i>	10108642	0.063	LC50/MOR//	< 1 d	LAB/S/I	2	197	7.9	20.1	water parameters rpt	3621
30	3827	<i>Daphnia magna</i>	10108642	0.85	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	252.15	6.5	20		15821
30	3828	<i>Daphnia magna</i>	10108642	0.05	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	837.14	6.5	20		15821

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
30	3832	<i>Daphnia magna</i>	10108642	0.85	LC50/MOR/INC/	neonates, <24 h	LAB/S/C	2	252.15	6.5	20		15821
30	6834	<i>Daphnia magna</i>	10124364	0.28	LC50/ITX/INC/	larvae	LAB//	2	250	7.8	20		17289
30	2400	<i>Daphnia obtusa</i>	7440439	0.58	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	2	250	7	20		20191
30	4250	<i>Hyalella azteca</i>	10108642	0.175	LC50/MOR/INC/		LAB/F/C	2	259	8	23	fed	52121
30	4251	<i>Hyalella azteca</i>	10108642	0.123	LC50/MOR/INC/		LAB/F/C	3	259	8	23	fed	52121
30	4253	<i>Hyalella azteca</i>	10108642	0.162	LC50/MOR/INC/		LAB/F/C	2	259	8	23	starved	52121
30	4254	<i>Hyalella azteca</i>	10108642	0.134	LC50/MOR/INC/		LAB/F/C	3	259	8	23	starved	52121
30	4272	<i>Hydra vulgaris</i>	10108642	0.84	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	2	204	7.8	20		50836
30	4273	<i>Hydra vulgaris</i>	10108642	0.85	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	2	204	7.8	20		50836
30	4274	<i>Hydra vulgaris</i>	10108642	0.45	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	3	204	7.8	20		50836
30	7036	<i>Lymnaea acuminata</i>	10124364	2.63	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	2	375	7.5	27.5	water chem profile rptd	11099
30	7037	<i>Lymnaea acuminata</i>	10124364	1.04	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	3	375	7.5	27.5	water chem profile rptd	11099
30	3010	<i>Procambarus clarkii</i>	7440439	10	/BCM//	adult intermolt, 19.5-30.2 g	LAB/R/S	2.25	250	7.9	20		5112
30	5882	<i>Procambarus clarkii</i>	10108642	10.25	NR-ZERO/MOR/NEF/	adult, intermolt	LAB/R/C	2	250	7.9	20		8047
30	7333	<i>Tubifex tubifex</i>	10124364	0.72	LC50/MOR//		LAB/R/S	2	261	7.32	20	mg, po4 and ca	8905
31	Invertebrates exposed to cadmium in very hard water at >15degC over <=1 day exposure												
31	6833	<i>Daphnia magna</i>	10124364	0.54	LC50/ITX/INC/	larvae	LAB//	1	250	7.8	20		17289
31	7584	<i>Daphnia magna</i>	10325947	0.16	LC50/ITX//	adult, 1 mm	LAB/S/I	1	200	7.8	18		5268
31	2399	<i>Daphnia obtusa</i>	7440439	0.62	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	1	250	7	20		20191
31	6962	<i>Hyalella azteca</i>	10124364	3.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
31	6963	<i>Hyalella azteca</i>	10124364	1.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
31	6964	<i>Hyalella azteca</i>	10124364	1	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
31	6965	<i>Hyalella azteca</i>	10124364	0.45	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.13	235	8	21		19116
31	6966	<i>Hyalella azteca</i>	10124364	0.3	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.13	235	8	21		19116
31	6967	<i>Hyalella azteca</i>	10124364	0.3	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.13	235	8	21		19116
31	6968	<i>Hyalella azteca</i>	10124364	0.3	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.13	235	8	21		19116
31	6969	<i>Hyalella azteca</i>	10124364	0.3	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.13	235	8	21		19116
31	6970	<i>Hyalella azteca</i>	10124364	0.3	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.13	235	8	21		19116
31	6971	<i>Hyalella azteca</i>	10124364	15	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21		19116
31	6972	<i>Hyalella azteca</i>	10124364	3.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21		19116
31	6973	<i>Hyalella azteca</i>	10124364	1.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21		19116
31	6974	<i>Hyalella azteca</i>	10124364	1.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21		19116

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
31	6975	<i>Hyalella azteca</i>	10124364	1.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21		19116
31	6976	<i>Hyalella azteca</i>	10124364	1.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21		19116
31	6977	<i>Hyalella azteca</i>	10124364	1.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21		19116
31	6978	<i>Hyalella azteca</i>	10124364	1.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
31	6979	<i>Hyalella azteca</i>	10124364	1	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
31	6980	<i>Hyalella azteca</i>	10124364	0.75	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
31	6981	<i>Hyalella azteca</i>	10124364	0.75	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
31	6982	<i>Hyalella azteca</i>	10124364	0.7	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
31	6983	<i>Hyalella azteca</i>	10124364	0.65	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
31	6984	<i>Hyalella azteca</i>	10124364	0.65	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
31	6985	<i>Hyalella azteca</i>	10124364	3	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21		19116
31	6986	<i>Hyalella azteca</i>	10124364	0.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21		19116
31	6987	<i>Hyalella azteca</i>	10124364	0.3	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21		19116
31	6988	<i>Hyalella azteca</i>	10124364	0.25	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21		19116
31	6989	<i>Hyalella azteca</i>	10124364	0.25	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21		19116
31	6990	<i>Hyalella azteca</i>	10124364	0.2	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21		19116
31	6991	<i>Hyalella azteca</i>	10124364	0.2	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21		19116
31	6992	<i>Hyalella azteca</i>	10124364	0.2	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21		19116
31	6993	<i>Hyalella azteca</i>	10124364	1	LC50/ITX/INC/	7-14 d neonates	LAB/S/C	0.02	235	8	21		19116
31	6994	<i>Hyalella azteca</i>	10124364	0.8	LC50/ITX/INC/	7-14 d neonates	LAB/S/C	0.04	235	8	21		19116
31	6995	<i>Hyalella azteca</i>	10124364	0.6	LC50/ITX/INC/	7-14 d neonates	LAB/S/C	0.08	235	8	21		19116
31	6996	<i>Hyalella azteca</i>	10124364	0.25	LC50/ITX/INC/	7-14 d neonates	LAB/S/C	0.13	235	8	21		19116
31	6997	<i>Hyalella azteca</i>	10124364	0.15	LC50/ITX/INC/	7-14 d neonates	LAB/S/C	0.17	235	8	21		19116
31	6998	<i>Hyalella azteca</i>	10124364	0.8	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
31	6999	<i>Hyalella azteca</i>	10124364	0.8	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
31	7000	<i>Hyalella azteca</i>	10124364	0.8	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
31	7001	<i>Hyalella azteca</i>	10124364	0.8	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
31	7002	<i>Hyalella azteca</i>	10124364	4.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.13	235	8	21		19116
31	7003	<i>Hyalella azteca</i>	10124364	0.75	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.13	235	8	21		19116
31	4271	<i>Hydra vulgaris</i>	10108642	2.7	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	1	204	7.8	20		50836
31	7035	<i>Lymnaea acuminata</i>	10124364	7.62	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	1	375	7.5	27.5	water chem profile rptd	11099
31	7043	<i>Macrobrachium rosenbergii</i>	10124364	50.05	LT50/MOR/INC/	post-larvae	LAB//	0.22	240	7.28	26		16218
31	5878	<i>Procambarus clarkii</i>	10108642	10.25	/BCM/INC/MULT	adult, intermolt	LAB/R/C	1	250	7.9	20		8047
31	7332	<i>Tubifex tubifex</i>	10124364	1.2	LC50/MOR//		LAB/R/S	1	261	7.32	20	mg, po4 and ca	8905
32	Non-arthropod invertebrates exposed to cadmium in moderately hard water at >15degC over 3-30 days exposure												

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
32	3158	<i>Barytelphusa guerinii</i>	10108642	1.82	LC50/MOR/INC/	24 g, male	LAB//C	4	112	7.3	27		18426
32	5540	<i>Barytelphusa guerinii</i>	10108642	0.62	/BCM/INC/MULT	24 g, male	LAB/R/C	15.5	112	7.3	27		18426
32	5541	<i>Barytelphusa guerinii</i>	10108642	0.62	/ENZ/INC/MULT	24 g, male	LAB/R/C	15.5	112	7.3	27		18426
32	7530	<i>Biomphalaria glabrata</i>	10325947	0.3	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	4	100	7.8	21		5268
32	2403	<i>Dendrocoelum lacteum</i>	7440439	23.22	LC50/MOR/INC/		LAB/R/C	4	87	6.9	16		14932
32	4270	<i>Hydra vulgaris</i>	10108642	0.12	LC50/MOR/INC/	polyps, budding, non-budding	LAB/R/C	4	108	7.5	20		18616
32	7088	<i>Philodina acuticornis</i>	10124364	0.3	LC50/ITX/INC/		LAB/S/C	4	81	7.6	20		2019
32	7089	<i>Philodina acuticornis</i>	10124364	0.3	LC50/ITX/INC/		LAB/S/C	4	81	7.6	20		2019
33	Non-arthropod invertebrates exposed to cadmium in moderately hard water at >15degC over 1-3 days exposure												
33	7528	<i>Biomphalaria glabrata</i>	10325947	1.06	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	2	100	7.8	21		5268
33	7529	<i>Biomphalaria glabrata</i>	10325947	0.57	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	3	100	7.8	21		5268
33	3215	<i>Caenorhabditis elegans</i>	10108642	2	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	2	85	7.8	20	recon water	19999
33	3218	<i>Caenorhabditis elegans</i>	10108642	2	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	2	85	7.8	20	mineral water, fed	19999
33	4266	<i>Hydra vulgaris</i>	10108642	0.17	EC50/FDB/DEC/	polyps, budding, non-budding	LAB/R/C	2	108	7.45	20		18616
33	4268	<i>Hydra vulgaris</i>	10108642	0.45	LC50/MOR/INC/	polyps, budding, non-budding	LAB/R/C	2	108	7.5	20		18616
33	4269	<i>Hydra vulgaris</i>	10108642	0.23	LC50/MOR/INC/	polyps, budding, non-budding	LAB/R/C	3	108	7.5	20		18616
33	7087	<i>Philodina acuticornis</i>	10124364	0.8	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
33	7090	<i>Philodina acuticornis</i>	10124364	1.4	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
33	7684	<i>Tetrahymena pyriformis</i>	10325947	0.165	LC50/ITX//	162 cells/ml	LAB/S/I	2	101.5	7.89	27.6		3432
34	Non-arthropod invertebrates exposed to cadmium in moderately hard water at >15degC over <=1 day exposure												
34	7524	<i>Biomphalaria glabrata</i>	10325947	48.93	LC50/MOR/INC/	100 d, 14 mm diameter	LAB/S/I	0.33	100	7.8	21		5268
34	7525	<i>Biomphalaria glabrata</i>	10325947	10	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	0.58	100	7.8	21		5268

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
34	7526	<i>Biomphalaria glabrata</i>	10325947	9	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	0.75	100	7.8	21		5268
34	7527	<i>Biomphalaria glabrata</i>	10325947	4.8	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	1	100	7.8	21		5268
34	3172	<i>Brachionus rubens</i>	10108642	0.81	LC50/MOR//	neonate, female, 136 um x 89 um	LAB/S/S	1	90	7.6	25		310
34	3173	<i>Brachionus rubens</i>	10108642	0.28	NOEC/MOR//	neonate, female, 136 um x 89 um	LAB/S/S	1	90	7.6	25		310
34	3213	<i>Caenorhabditis elegans</i>	10108642	21	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	1	85	7.8	20	recon water	19999
34	3214	<i>Caenorhabditis elegans</i>	10108642	25	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	1	85	7.8	20	recon water, fed	19999
34	3216	<i>Caenorhabditis elegans</i>	10108642	4	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	1	85	7.8	20	mineral water	19999
34	3217	<i>Caenorhabditis elegans</i>	10108642	7	LC50/MOR/INC/	wild type strain n2, adult	LAB/S/	1	85	7.8	20	mineral water, fed	19999
34	7410	<i>Corbicula manilensis</i>	10124364	0.25	/BEH//		LAB/R/S	1	75	7	25	conductivity, 140-155 umhos, ion profile	12874
34	4267	<i>Hydra vulgaris</i>	10108642	0.89	LC50/MOR/INC/	polyps, budding, non-budding	LAB/R/C	1	108	7.5	20		18616
34	7086	<i>Philodina acuticornis</i>	10124364	4.5	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019
34	7091	<i>Philodina acuticornis</i>	10124364	4.8	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019
35	Non-arthropod invertebrates exposed to cadmium in soft water at >15degC over 3-30 days exposure												
35	3052	<i>Acrossocheilus paradoxus</i>	10108642	0.2918	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	4	34	7.35	22		18913
35	2163	<i>Amnicola</i>	7440439	3.8	LC50/MOR//	egg	LAB/S/I	4	50	7.6	17		2020
35	2165	<i>Amnicola</i>	7440439	8.4	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
35	3123	<i>Aplexa hypnorum</i>	10108642	0.093	LC50/MOR//	adult	LAB/F/I	4	44.4	7.45	17.3		10775
35	5529	<i>Aplexa hypnorum</i>	10108642	0.0129	NR-LETH/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	5991	<i>Aplexa hypnorum</i>	10108642	0.0015	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	5992	<i>Aplexa hypnorum</i>	10108642	0.0024	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	5993	<i>Aplexa hypnorum</i>	10108642	0.0044	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	5994	<i>Aplexa hypnorum</i>	10108642	0.0076	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	5995	<i>Aplexa hypnorum</i>	10108642	0.0132	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	5996	<i>Aplexa hypnorum</i>	10108642	0.0015	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	5997	<i>Aplexa hypnorum</i>	10108642	0.0025	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/ Trend/Significant)*	Test Organism	Design (Location/E xposure/Co ntrol Type)*	Days	Hardness	pH	°C	Design Comment	Citation
35	5998	<i>Aplexa hypnorum</i>	10108642	0.0048	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	5999	<i>Aplexa hypnorum</i>	10108642	0.0072	/MOR//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	6000	<i>Aplexa hypnorum</i>	10108642	0.0076	/GRO//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	6001	<i>Aplexa hypnorum</i>	10108642	0.0048	/GRO//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	6002	<i>Aplexa hypnorum</i>	10108642	0.0044	/REP//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	6003	<i>Aplexa hypnorum</i>	10108642	0.0076	/REP//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	6004	<i>Aplexa hypnorum</i>	10108642	0.0025	/REP//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	6005	<i>Aplexa hypnorum</i>	10108642	0.0048	/REP//	< 24 h, egg masses	LAB/F/S	26	45.3	7.45	23.9		10689
35	2405	<i>Dugesia tigrina</i>	7440439	2.25	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
35	6940	<i>Dugesia tigrina</i>	10124364	2.2	LC50/MOR//		LAB/S/I	4	40	7.5	23	for other water chemistry see paper	6154
35	4046	<i>Echinogammarus echinosetosus</i>	10108642	0.48	LC50/MOR/INC/		LAB/R/C	4	27	7.2	22		20393
35	6945	<i>Heliodiaptomus viduus</i>	10124364	0.06	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
35	6261	<i>Helisoma</i>	10108642	0.211	/MOR//		LAB/F/I	10	44.5	7.95	21.5		3919
35	4381	<i>Lumbriculus variegatus</i>	10108642	0.15	LC50/ITX/INC/	10-30 mm	LAB//	4	10	7.6	20	waihou river water	15048
35	4383	<i>Lumbriculus variegatus</i>	10108642	0.074	LC50/MOR/INC/		LAB/S/C	4	30	7.5	20		6502
35	5716	<i>Lumbriculus variegatus</i>	10108642	0.278	NR-LETH/MOR//	adult	LAB/F/I	10	44.5	7.95	21.5		3919
35	2470	<i>Nais</i>	7440439	1.7	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
35	5846	<i>Oziotelphusa senex senex</i>	10108642	0.1	/BCM/CHG/NOSIG	adult, 30-32 g	LAB/R/S	4	35	7.1	30		13745
35	5847	<i>Oziotelphusa senex senex</i>	10108642	0.1	/BCM/CHG/NOSIG	adult, 30-32 g	LAB/R/S	4	35	7.1	30		13745
35	5040	<i>Philodina acuticornis</i>	10108642	0.5	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
35	5041	<i>Philodina acuticornis</i>	10108642	0.5	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
35	7094	<i>Philodina acuticornis</i>	10124364	0.2	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
35	7095	<i>Philodina acuticornis</i>	10124364	0.1	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
35	2573	<i>Zygoptera</i>	7440439	8.1	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
36	Non-arthropod invertebrates exposed to cadmium in soft water at >15degC over 1-3 days exposure												

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
36	3051	<i>Acrossocheilus paradoxus</i>	10108642	0.3705	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	2	34	7.35	22		18913
36	6939	<i>Dugesia tigrina</i>	10124364	6.75	LC50/MOR//		LAB/S/I	2	40	7.5	23	for other water chemistry see paper	6154
36	6231	<i>Echinogammarus echinosetosus</i>	10108642	1.05	/BCM/INC/		LAB/R/C	1.5	27	7.2	22		20393
36	6944	<i>Heliodiaptomus viduus</i>	10124364	0.15	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
36	6946	<i>Heliodiaptomus viduus</i>	10124364	0.045	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
36	6947	<i>Heliodiaptomus viduus</i>	10124364	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
36	4382	<i>Lumbriculus variegatus</i>	10108642	0.12	LC50/MOR/INC/		LAB/S/C	2	30	7.5	20		6502
36	5039	<i>Philodina acuticornis</i>	10108642	1.4	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
36	5042	<i>Philodina acuticornis</i>	10108642	1.5	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
36	7093	<i>Philodina acuticornis</i>	10124364	2	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
36	7096	<i>Philodina acuticornis</i>	10124364	0.5	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
36	7681	<i>Spirostomum ambiguum</i>	10325947	0.145	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
36	7683	<i>Spirostomum ambiguum</i>	10325947	0.168	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
36	7331	<i>Tubifex tubifex</i>	10124364	0.045	LC50/MOR//		LAB/R/S	2	34.2	7.2	20	mg, po4 and ca	8905
36	7335	<i>Tubifex tubifex</i>	10124364	0.0028	LC50/MOR//		LAB/R/S	2	0.1	6.3	20		8905
36	7337	<i>Tubifex tubifex</i>	10124364	0.031	LC50/MOR//		LAB/R/S	2	34.2	6.85	20	mg, po4 and ca	8905
37	Non-arthropod invertebrates exposed to cadmium in soft water at >15degC over <=1 day exposure												
37	3050	<i>Acrossocheilus paradoxus</i>	10108642	0.5546	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
37	5518	<i>Acrossocheilus paradoxus</i>	10108642	1	NR-LETH/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
37	2162	<i>Amnicola</i>	7440439	5.1	LC50/MOR//	egg	LAB/S/I	1	50	7.6	17		2020
37	2164	<i>Amnicola</i>	7440439	10.1	LC50/MOR//	adult	LAB/S/I	1	50	7.6	17		2020
37	3166	<i>Brachionus calyciflorus</i>	10108642	0.65	LC50/MOR//	juvenile	LAB/S/S	1	36.2	7.3	20		3091

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
37	6938	<i>Dugesia tigrina</i>	10124364	23.3	LC50/MOR//		LAB/S/I	1	40	7.5	23	for other water chemistry see paper	6154
37	5715	<i>Lumbriculus variegatus</i>	10108642	0.5195	NR-LETH/MOR/INC/		LAB/S/I	1	45	6.8	20		13685
37	2469	<i>Nais</i>	7440439	4.6	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
37	5038	<i>Philodina acuticornis</i>	10108642	11.5	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
37	5043	<i>Philodina acuticornis</i>	10108642	6.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
37	7092	<i>Philodina acuticornis</i>	10124364	8.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
37	7097	<i>Philodina acuticornis</i>	10124364	5.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
37	7680	<i>Spirostomum ambiguum</i>	10325947	0.16	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
37	7682	<i>Spirostomum ambiguum</i>	10325947	0.197	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
37	7334	<i>Tubifex tubifex</i>	10124364	0.0037	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
37	7336	<i>Tubifex tubifex</i>	10124364	0.063	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	mg, po4 and ca	8905
37	7338	<i>Tubifex tubifex</i>	10124364	0.077	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	mg, po4 and ca	8905
37	7504	<i>Tubifex tubifex</i>	10124364	0.0009	/PHY//		LAB/S/I	0.25	34.2	7.2	20	ca, mg, po4	15584
37	2572	<i>Zygoptera</i>	7440439	11	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
38	Vertebrates exposed to cadmium in hard water at >15degC over 3-30 days exposure												
38	2090	<i>Barbus ticto</i>	543908	26	LC50/MOR//	3.6-4.7 cm, 325-331 mg	LAB/S/I	4	175	8	25		3902
38	2117	<i>Barbus ticto</i>	543908	7.75	/HIS//	3.6-4.7 cm, 325-331 mg	LAB/S/S	15	175	8	25		3902
38	2595	<i>Channa punctata</i>	7440439	11.2	/MOR/INC/	15 cm, 60 g	LAB/R/I	4	165	7.4	20		13746
38	2598	<i>Channa punctata</i>	7440439	1.12	/PHY/DEC/NOSIG	15 cm, 60 g	LAB/R/S	15	165	7.4	20		13746
38	2599	<i>Channa punctata</i>	7440439	1.12	/PHY/DEC/SIG	15 cm, 60 g	LAB/R/S	30	165	7.4	20		13746
38	2600	<i>Channa punctata</i>	7440439	1.62	/BCM/CHG/MULT	15 cm, 60 g	LAB//K	22.5	156	7.2	20		16936
38	2601	<i>Channa punctata</i>	7440439	1.62	/BCM/DEC/SIG	15 cm, 60 g	LAB//K	22.5	156	7.2	20		16936
38	2602	<i>Channa punctata</i>	7440439	1.62	/ENZ/INC/SIG	15 cm, 60 g	LAB//K	22.5	156	7.2	20		16936
38	6789	<i>Channa punctata</i>	10124364	7.4	LC50/MOR//	0.87 g	LAB/S/I	4	128	7.55	22		3448
38	6797	<i>Channa punctata</i>	10124364	2.9	MATC/MOR//	0.87 g	LAB/S/S	4	128	7.55	22		3448
38	7717	<i>Ctenopharyngodon idella</i>	10325947	1	NR-ZERO/MOR/NEF/	juvenile, 0.12-1.80 g	LAB/R/C	4	137.5	7.8	26		49075

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
38	7718	<i>Ctenopharyngodon idella</i>	10325947	1	NR-ZERO/MOR/NEF/	juvenile, 0.12-1.80 g	LAB/R/C	4	137.5	7.8	29		49075
38	7749	<i>Ctenopharyngodon idella</i>	10325947	0.75	/PHY/INC/	juvenile, 0.12-1.80 g	LAB/R/C	4	137.5	7.8	26		49075
38	7750	<i>Ctenopharyngodon idella</i>	10325947	0.75	/PHY/INC/	juvenile, 0.12-1.80 g	LAB/R/C	4	137.5	7.8	29		49075
38	2347	<i>Cyprinus carpio</i>	7440439	21.07	LC50/MOR//	yearling	LAB/S	4	138	7.5	18		4123
38	2864	<i>Cyprinus carpio</i>	7440439	20	/HIS//	yearling	LAB/S	4	138	7.5	18		4123
38	2865	<i>Cyprinus carpio</i>	7440439	20	/ENZ//	yearling	LAB/S	4	138	7.5	18		4123
38	4103	<i>Etheostoma spectabile</i>	10108642	0.348	EC50/GRO//	cleavage embryo, 8-16 cell stage	LAB/R/S	4	180	7.6	18		4144
38	4104	<i>Etheostoma spectabile</i>	10108642	0.43	EC50/GRO//	cleavage embryo, 8-16 cell stage	LAB/R/S	8	180	7.6	18		4144
38	7446	<i>Lepomis cyanellus</i>	10124364	5.17	/BEH//	juvenile, 0.5-2.5 g	LAB/S/I	10	136.8	8	20		5493
38	4362	<i>Lepomis macrochirus</i>	10108642	0.0373	LOEC/FDB/DEC/SIG	juvenile, 31.1 mm	LAB/F/M	22	174	8	23.7		16188
38	4365	<i>Lepomis macrochirus</i>	10108642	0.0018	LOEC/BCM/INC/SIG	juvenile	LAB/F/C	28	147	7.9	21.7		4018
38	4366	<i>Lepomis macrochirus</i>	10108642	0.0062	LOEC/BCM/INC/SIG	juvenile	LAB/F/C	28	134	7.8	21.8		4018
38	4370	<i>Lepomis macrochirus</i>	10108642	0.0373	NOEC/GRO/DEC/NOSIG	juvenile, 31.1 mm	LAB/F/M	22	174	8	23.7		16188
38	4373	<i>Lepomis macrochirus</i>	10108642	0.0008	NOEC/BCM/INC/NOSIG	juvenile	LAB/F/C	28	147	7.9	21.7		4018
38	4374	<i>Lepomis macrochirus</i>	10108642	0.0028	NOEC/BCM/INC/NOSIG	juvenile	LAB/F/C	28	134	7.8	21.8		4018
38	4421	<i>Microhyla ornata</i>	10108642	1.58	LC50/MOR/INC/	1 wk tadpoles, 1.2-1.3 cm	LAB/R/C	4	143.75	6.9	25.75		6357
38	4425	<i>Microhyla ornata</i>	10108642	1.81	LC50/MOR/INC/	4 wk tadpoles	LAB/R/C	4	143.75	6.9	25.75		6357
38	4933	<i>Oncorhynchus mykiss</i>	10108642	0.02	LETC/MOR//	juvenile, 9.2 g, 9.3 cm	LAB/F/S	10	125	7.85	18		8390
38	5242	<i>Poecilia reticulata</i>	10108642	12.75	LC50/MOR/INC/	male, adult, 1.5-3 cm, 0.08 g	LAB/S/	4	165	6.25	24.5		14666
38	5243	<i>Poecilia reticulata</i>	10108642	2.5	LC50/MOR/INC/	fry, 0.025-0.315 g, 1-2 cm	LAB/S/	4	165	6.25	24.5		14666
38	5244	<i>Poecilia reticulata</i>	10108642	16	LC50/MOR/INC/	female, adult, 1.5-3 cm, 0.08 g	LAB/S/	4	165	6.25	24.5		14666
38	2766	<i>Tilapia mossambica</i>	7440439	4.9345	/BCM/CHG/MULT	103.59 g, 19.9 cm	LAB/R/C	23	177.55	7.97	29.77		3331
38	2771	<i>Tilapia mossambica</i>	7440439	5.05	/BCM/CHG/MULT	adult, 103.59 g, 19.9 cm	LAB/R/C	23	177.55	7.97	29.78		2313

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
38	2772	<i>Tilapia mossambica</i>	7440439	5.05	/CEL/CHG/MULT	adult, 103.59 g, 19.9 cm	LAB/R/C	23	177.55	7.97	29.78		2313
39	Vertebrates exposed to cadmium in hard water at >15degC over <=1 day exposure												
39	2087	<i>Barbus ticto</i>	543908	35	LC50/MOR//	3.6-4.7 cm, 325-331 mg	LAB/S/I	1	175	8	25		3902
39	6786	<i>Channa punctata</i>	10124364	10.02	LC50/MOR//	0.87 g	LAB/S/I	1	128	7.55	22		3448
39	6950	<i>Heteropneustes fossilis</i>	10124364	70.8	LC50/MOR//	11.36 g, 11.75 cm	LAB/S/I	1	128	7.55	22	conductivity 314(311-319) umhoscm	3728
39	6951	<i>Heteropneustes fossilis</i>	10124364	30.5	LC50/MOR//	11.36 g, 11.75 cm	LAB/S/I	1	128	7.55	22	conductivity 314(311-319) umhoscm	3728
39	6952	<i>Heteropneustes fossilis</i>	10124364	21.9	LC50/MOR//	11.36 g, 11.75 cm	LAB/S/I	1	128	7.55	22	conductivity 314(311-319) umhoscm	3728
39	6953	<i>Heteropneustes fossilis</i>	10124364	20.6	LC50/MOR//	11.36 g, 11.75 cm	LAB/S/I	1	128	7.55	22	conductivity 314(311-319) umhoscm	3728
39	4418	<i>Microhyla ornata</i>	10108642	2.62	LC50/MOR/INC/	1 wk tadpoles, 1.2-1.3 cm	LAB/R/C	1	143.75	6.9	25.75		6357
39	4422	<i>Microhyla ornata</i>	10108642	2.78	LC50/MOR/INC/	4 wk tadpoles	LAB/R/C	1	143.75	6.9	25.75		6357
39	6381	<i>Oncorhynchus mykiss</i>	10108642	0.025	/PHY//		LAB/F/I	1	180	8	20		5938
39	7098	<i>Pimephales promelas</i>	10124364	10	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.01	170	7.8	21		19116
39	7099	<i>Pimephales promelas</i>	10124364	10	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.01	170	7.8	21		19116
39	7100	<i>Pimephales promelas</i>	10124364	8	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.01	170	7.8	21		19116
39	7101	<i>Pimephales promelas</i>	10124364	8	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.01	170	7.8	21		19116
39	7102	<i>Pimephales promelas</i>	10124364	8	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.01	170	7.8	21		19116
39	7103	<i>Pimephales promelas</i>	10124364	8	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.01	170	7.8	21		19116
39	7104	<i>Pimephales promelas</i>	10124364	8	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.01	170	7.8	21		19116
39	7105	<i>Pimephales promelas</i>	10124364	20	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.02	170	7.8	21		19116

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/ Trend/Significant)*	Test Organism	Design (Location/E xposure/Co ntrol Type)*	Days	Hardness	pH	°C	Design Comment	Citation
39	7106	<i>Pimephales promelas</i>	10124364	10	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.02	170	7.8	21		19116
39	7107	<i>Pimephales promelas</i>	10124364	8	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.02	170	7.8	21		19116
39	7108	<i>Pimephales promelas</i>	10124364	5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.02	170	7.8	21		19116
39	7109	<i>Pimephales promelas</i>	10124364	5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.02	170	7.8	21		19116
39	7110	<i>Pimephales promelas</i>	10124364	5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.02	170	7.8	21		19116
39	7111	<i>Pimephales promelas</i>	10124364	5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.02	170	7.8	21		19116
39	7112	<i>Pimephales promelas</i>	10124364	5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.01	170	7.8	21		19116
39	7113	<i>Pimephales promelas</i>	10124364	600	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.04	170	7.8	21		19116
39	7114	<i>Pimephales promelas</i>	10124364	5.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.04	170	7.8	21		19116
39	7115	<i>Pimephales promelas</i>	10124364	4	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.04	170	7.8	21		19116
39	7116	<i>Pimephales promelas</i>	10124364	4	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.04	170	7.8	21		19116
39	7117	<i>Pimephales promelas</i>	10124364	3	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.04	170	7.8	21		19116
39	7118	<i>Pimephales promelas</i>	10124364	3	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.04	170	7.8	21		19116
39	7119	<i>Pimephales promelas</i>	10124364	3	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.04	170	7.8	21		19116
39	7120	<i>Pimephales promelas</i>	10124364	3	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.04	170	7.8	21		19116
39	7121	<i>Pimephales promelas</i>	10124364	3	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.08	170	7.8	21		19116
39	7122	<i>Pimephales promelas</i>	10124364	2	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.08	170	7.8	21		19116
39	7123	<i>Pimephales promelas</i>	10124364	2	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.08	170	7.8	21		19116
39	7124	<i>Pimephales promelas</i>	10124364	2	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.08	170	7.8	21		19116
39	7125	<i>Pimephales promelas</i>	10124364	2.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.08	170	7.8	21		19116

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
39	7126	<i>Pimephales promelas</i>	10124364	2	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.08	170	7.8	21		19116
39	7127	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.08	170	7.8	21		19116
39	7128	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.08	170	7.8	21		19116
39	7129	<i>Pimephales promelas</i>	10124364	3	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.17	170	7.8	21		19116
39	7130	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.17	170	7.8	21		19116
39	7131	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.17	170	7.8	21		19116
39	7132	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.17	170	7.8	21		19116
39	7133	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.17	170	7.8	21		19116
39	7134	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.17	170	7.8	21		19116
39	7135	<i>Pimephales promelas</i>	10124364	8	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.01	170	7.8	21		19116
39	7136	<i>Pimephales promelas</i>	10124364	5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.02	170	7.8	21		19116
39	7137	<i>Pimephales promelas</i>	10124364	2.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.04	170	7.8	21		19116
39	7138	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.08	170	7.8	21		19116
39	7139	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.17	170	7.8	21		19116
39	7140	<i>Pimephales promelas</i>	10124364	25	LC50/ITX/INC/	hatched fry, <48 h	LAB/S/C	0.01	170	7.8	21		19116
39	7141	<i>Pimephales promelas</i>	10124364	8	LC50/ITX/INC/	hatched fry, <48 h	LAB/S/C	0.02	170	7.8	21		19116
39	7142	<i>Pimephales promelas</i>	10124364	5	LC50/ITX/INC/	hatched fry, <48 h	LAB/S/C	0.04	170	7.8	21		19116
39	7143	<i>Pimephales promelas</i>	10124364	2.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/S/C	0.08	170	7.8	21		19116
39	7144	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.17	170	8	21		19116
39	7145	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.17	170	8	21		19116

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
39	7146	<i>Pimephales promelas</i>	10124364	8.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.01	170	8	21		19116
39	7147	<i>Pimephales promelas</i>	10124364	5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.02	170	8	21		19116
39	7148	<i>Pimephales promelas</i>	10124364	3	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.04	170	7.8	21		19116
39	7149	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.08	170	7.8	21		19116
39	7150	<i>Pimephales promelas</i>	10124364	1.5	LC50/ITX/INC/	hatched fry, <48 h	LAB/F/C	0.17	170	7.8	21		19116
40	Vertebrates exposed to cadmium in moderately hard water at <15degC over 3-30 days exposure												
40	6133	<i>Coregonus clupeaformis</i>	10108642	0.0125	/AVO//	2+ yr, 15.9 cm, 32.9 g	LAB/F/S	21.05	89.6	7.925	11.3	conductivity 189 umhos/cm	6774
40	4200	<i>Gasterosteus aculeatus</i>	10108642	6.5	LC50/MOR//		LAB/S/S	4	115	7.95	15		2038
40	4515	<i>Oncorhynchus gorbuscha</i>	10108642	3.65	LC50/MOR//	alevin, newly hatched	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
40	4516	<i>Oncorhynchus gorbuscha</i>	10108642	3.16	LC50/MOR//	alevin	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
40	4517	<i>Oncorhynchus gorbuscha</i>	10108642	2.7	LC50/MOR//	fry	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
40	4518	<i>Oncorhynchus kisutch</i>	10108642	0.0104	LC50/MOR//	yearling	LAB/R/I	4	90	7.59	10	nh3-n 0.15 ppm	15034
40	5752	<i>Oncorhynchus kisutch</i>	10108642	0.0094	/MOR/INC/	yearlings, 15-22 cm	LAB/F/C	11	90	7.03	12.3		15935
40	5753	<i>Oncorhynchus kisutch</i>	10108642	0.0045	NR-ZERO/MOR/NEF/	yearlings, 15-22 cm	LAB/F/C	11	90	7.03	12.3		15935
40	6364	<i>Oncorhynchus kisutch</i>	10108642	0.012	/ENZ//	yearling	LAB/R/I	6	90	7.59	10	nh3-n 0.15 ppm	15034
40	6365	<i>Oncorhynchus kisutch</i>	10108642	0.008	/ENZ//	yearling	LAB/R/I	6	90	7.59	10	nh3-n 0.15 ppm	15034
40	6377	<i>Oncorhynchus kisutch</i>	10108642	0.0076	/HRM/CHG/	yearlings, 15-22 cm	LAB/F/C	5.63	90	7.03	12.3		15935
40	6378	<i>Oncorhynchus kisutch</i>	10108642	0.0107	/HIS/NEF/	yearlings, 15-22 cm	LAB/F/C	5	90	7.03	12.3		15935
40	4539	<i>Oncorhynchus mykiss</i>	10108642	0.13	LC50/MOR/INC/	eggs	LAB/R/C	28	104	7.4	13		5305

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
40	4541	<i>Oncorhynchus mykiss</i>	10108642	0.011	LC50/MOR/INC/		LAB/S/I	4	76.8	7.8	15	nemadji river water	3690
40	4542	<i>Oncorhynchus mykiss</i>	10108642	0.0102	LC50/MOR//	0.5 g, juvenile	LAB/S/I	4	67	7.5	12	conductivity 104-165 umhoscm, complete dilution water	10485
40	4559	<i>Oncorhynchus mykiss</i>	10108642	1.3	LC50/MOR//	5-15 g	LAB/R/S	4	63	7.4	9.6		11987
40	4582	<i>Oncorhynchus mykiss</i>	10108642	0.14	LC50/MOR//	egg	LAB/R/S	28	101	7.35	12.5		11838
40	4589	<i>Oncorhynchus mykiss</i>	10108642	0.21	LC50/MOR/INC/	16.47-18.72 cm fl, 53.85-77.70 g	LAB/F/C	4	112	7.8	14		6116
40	4924	<i>Oncorhynchus mykiss</i>	10108642	0.13	LC50/MOR//	eggs	LAB/R/S	28	99	7.5	12.5		6199
40	5767	<i>Oncorhynchus mykiss</i>	10108642	0.6	/HRM/DEC/NOSIG	80 g, immature	LAB/F/C	7	110	7.2	11		18245
40	5768	<i>Oncorhynchus mykiss</i>	10108642	0.6	/HRM/INC/SIG	80 g, gsi 0.1 %, immature	LAB/F/C	7	110	7.2	11		18245
40	5769	<i>Oncorhynchus mykiss</i>	10108642	0.6	/HRM/DEC/SIG	80 g, gsi 0.1 %, immature	LAB/F/C	7	110	7.2	11		18245
40	5770	<i>Oncorhynchus mykiss</i>	10108642	0.6	/BCM/INC/SIG	80 g, gsi 0.1 %, immature	LAB/F/C	7	110	7.2	11		18245
40	5771	<i>Oncorhynchus mykiss</i>	10108642	0.4	/BCM/INC/NOSIG	80 g, gsi 0.1 %, immature	LAB/F/C	7	110	7.2	11		18245
40	5772	<i>Oncorhynchus mykiss</i>	10108642	0.8	/HIS/NEF/NOSIG	80 g, immature	LAB/F/C	7	110	7.2	11		18245
40	5773	<i>Oncorhynchus mykiss</i>	10108642	0.8	/BCM/DEC/SIG	80 g, immature	LAB/F/C	7	110	7.2	11		18245
40	5778	<i>Oncorhynchus mykiss</i>	10108642	0.0028	/BEH/INC/NOSIG	5-6 cm, fingerling	LAB/F/C	4	90	7.8	11.7	un-exposed predators	17721
40	5802	<i>Oncorhynchus mykiss</i>	10108642	0.124	NR-LETH/MOR//	embryo, 19 d post-spawn	LAB/S/I	25.9	87.1	7.9	11.9	conductivity 122 umhocm	15702
40	5804	<i>Oncorhynchus mykiss</i>	10108642	39.4	NR-LETH/MOR/INC/	newly hatched alevins	LAB/S/C	4.17	101.2	7.45	11		15554
40	5805	<i>Oncorhynchus mykiss</i>	10108642	0.865	NR-LETH/MOR/INC/	alevins, 64 days post-spawn	LAB/S/C	13.33	105.4	7.715	11.8		15554
40	6398	<i>Oncorhynchus mykiss</i>	10108642	0.014	/MOR//	embryo, 19 d post-spawn	LAB/S/S	27	80.3	7.9	11.4	conductivity 126 umhocm	15702
40	6399	<i>Oncorhynchus mykiss</i>	10108642	0.124	/MOR//	embryo, 19 d post-spawn	LAB/S/S	27	87.1	7.9	11.9	conductivity 122 umhocm	15702

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
40	6400	<i>Oncorhynchus mykiss</i>	10108642	0.014	/GRO//	embryo, 19 d post-spawn	LAB/S/S	25.9	80.3	7.9	11.4	conductivity 126 umhocm	15702
40	6401	<i>Oncorhynchus mykiss</i>	10108642	0.124	/GRO//	embryo, 19 d post-spawn	LAB/S/S	18.9	87.1	7.9	11.9	conductivity 122 umhocm	15702
40	6402	<i>Oncorhynchus mykiss</i>	10108642	0.014	/DVP//	embryo, 19 d post-spawn	LAB/S/S	13.9	80.3	7.9	11.4	conductivity 126 umhocm	15702
40	6432	<i>Oncorhynchus mykiss</i>	10108642	0.4	/GRO//	80 g, gsi 0.1 %, immature	LAB/F/C	7	110	7.2	11		18245
40	6433	<i>Oncorhynchus mykiss</i>	10108642	0.4	/BCM//	80 g, gsi 0.1 %, immature	LAB/F/C	7	110	7.2	11		18245
40	4958	<i>Oncorhynchus nerka</i>	10108642	0.36	LC50/MOR//	smolt, 5.5 g	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
40	4959	<i>Oncorhynchus nerka</i>	10108642	4.5	LC50/MOR//	alevin, newly hatched	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
40	4960	<i>Oncorhynchus nerka</i>	10108642	1	LC50/MOR//	alevin	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
40	4961	<i>Oncorhynchus nerka</i>	10108642	0.5	LC50/MOR//	alevin	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
40	4962	<i>Oncorhynchus nerka</i>	10108642	0.03	LC50/MOR//	fry, 0.14 g	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
40	4963	<i>Oncorhynchus nerka</i>	10108642	0.008	LC50/MOR//	fry, 0.20 g	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
40	5333	<i>Salmo trutta</i>	10108642	0.0151	LC50/MOR//	1-2 g, juvenile	LAB/S/I	4	67	7.5	12	conductivity 104-165 umhoscm, complete dilution water	10485
40	5907	<i>Salvelinus namaycush</i>	10108642	0.005	/FDB/DEC/SIG	2+yr, 26.1 cm	LAB/F/C	4	90	7.8	11.7	un-exposed prey	17721
40	5908	<i>Salvelinus namaycush</i>	10108642	0.0005	/FDB/DEC/NOSIG	2+yr, 26.1 cm	LAB/F/C	4	90	7.8	11.7	un-exposed prey	17721
41	Vertebrates exposed to cadmium in moderately hard water at >15degC over 3-30 days exposure												
41	3090	<i>Ambystoma opacum</i>	10108642	0.15	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
41	3154	<i>Barbus arulius</i>	10108642	39	LC50/MOR//	6.26 cm, 2.403 g	LAB/R/I	4	65	7.5	25		13240
41	7711	<i>Carassius auratus</i>	10325947	0.175	/FDB/DEC/SIG	21.12-32.70 g	LAB/R/C	20	95.45	7.45	16.75		16668

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
41	7712	<i>Carassius auratus</i>	10325947	0.175	/BCM/CHG/MULT	21.12-32.70 g	LAB/R/C	20	95.45	7.45	16.75		16668
41	7739	<i>Carassius auratus</i>	10325947	0.175	/GRO/DEC/	21.12-32.70 g	LAB/R/C	20	95.45	7.45	16.75		16668
41	7740	<i>Carassius auratus</i>	10325947	0.175	/MOR/INC/	21.12-32.70 g	LAB/R/C	20	95.45	7.45	16.75		16668
41	7741	<i>Carassius auratus</i>	10325947	0.175	/MPH/CHG/	21.12-32.70 g	LAB/R/C	20	95.45	7.45	16.75		16668
41	6795	<i>Channa punctata</i>	10124364	16.2	LC50/MOR/INC/	15 cm, 60 g	LAB//	4	106	7.4	26		19023
41	7351	<i>Channa punctata</i>	10124364	1.62	/ENZ/CHG/MULT	15 cm, 60 g	LAB//C	22.5	106	7.4	26		19023
41	7352	<i>Channa punctata</i>	10124364	1.62	/BCM/CHG/MULT	15 cm, 60 g	LAB//C	22.5	106	7.4	26		19023
41	3399	<i>Cirrhinus mrigala</i>	10108642	5.3	LC50/MOR//	4.5 mm, 51.0 mg, 2 d larvae	LAB/S/I	4	72	7.3	23	tds	10575
41	3400	<i>Cirrhinus mrigala</i>	10108642	0.3664	MATC/MOR//	2 d larvae, 4.5 mm, 51.0 mg	LAB/S/I	4	72	7.3	23	tds	10575
41	2345	<i>Cyprinus carpio</i>	7440439	17.05	LC50/MOR//	fingerling 20 g	LAB/R/I	4	100	7.6	28		8129
41	2346	<i>Cyprinus carpio</i>	7440439	4.26	LC50/MOR//	fry 150 mg	LAB/R/I	4	100	7.6	28		8129
41	2846	<i>Cyprinus carpio</i>	7440439	0.86	/PHY//	fry 150 mg	LAB/R/S	15.5	100	7.6	28		8129
41	2848	<i>Cyprinus carpio</i>	7440439	3.45	/PHY//	fingerling 20g	LAB/R/S	15.5	100	7.6	28		8129
41	2849	<i>Cyprinus carpio</i>	7440439	3.45	/BCM//	fingerling 20 g	LAB/R/S	15.5	100	7.6	28		8129
41	2850	<i>Cyprinus carpio</i>	7440439	0.86	/BCM//	fry 150 mg	LAB/R/S	15.5	100	7.6	28		8129
41	2861	<i>Cyprinus carpio</i>	7440439	0.86	/ENZ//	fry 150 mg	LAB/R/S	15.5	100	7.6	28		8129
41	2863	<i>Cyprinus carpio</i>	7440439	3.45	/ENZ//	fingerling 20 g	LAB/R/S	15.5	100	7.6	28		8129
41	3489	<i>Cyprinus carpio</i>	10108642	0.0051	LC50/MOR//	larvae, 8 mm	LAB/R/I	4	74	7.2	21.6		10385
41	3525	<i>Cyprinus carpio</i>	10108642	7.925	LC50/MOR/INC/	fingerling, 15 g, 11 cm	LAB//	4	104	7.4	23		45153
41	5629	<i>Cyprinus carpio</i>	10108642	7.925	/MOR/INC/	fingerling, 15 g, 11 cm	LAB//	24.5	104	7.4	23		45153
41	6158	<i>Cyprinus carpio</i>	10108642	0.3	/BCM/CHG/	57.7 g	LAB/S/C	4	63	7.6	21.4		7830
41	7558	<i>Cyprinus carpio</i>	10325947	4.3	LC50/MOR//	fry, 150 mg	LAB//I	4	100	7.5	29		7043
41	7559	<i>Cyprinus carpio</i>	10325947	17.1	LC50/MOR//	fingerling, 20 g	LAB//I	4	100	7.5	29		7043
41	7720	<i>Cyprinus carpio</i>	10325947	2.14	/ENZ/CHG/MULT	fry, fingerlings, 150 g, 10 g	LAB//C	15.5	100	7.6	28		13733
41	6822	<i>Danio rerio</i>	10124364	1.7	LC50/MOR//	juveniles, 0.25 g	LAB/S/I	4	100	7.9	25	ca, mg, na, hco3, cl, no3, so4	2195
41	7581	<i>Danio rerio</i>	10325947	4.35	LC50/MOR//	3.5 cm	LAB/S/I	4	100	7.8	20		5268
41	5673	<i>Garra mullya</i>	10108642	4	/BCM/DEC/MULT	mature, 14-15 cm, 33.2 g	LAB/S/C	28	66.5	7.35	25.45		18485
41	5674	<i>Garra mullya</i>	10108642	4	/MPH/DEC/SIG	mature, 14-15 cm, 33.2 g	LAB/S/C	28	66.5	7.35	25.45		18485
41	2660	<i>Gasterosteus aculeatus</i>	7440439	0.595	/MOR/INC/	1.22 g	LAB/S/C	7.08	107.5	7.8	17	parasites by schistocephalus solidus 44.7 %	10549

mg total metal/L, hardness in mg CaCO3/L

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SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
41	4199	<i>Gasterosteus aculeatus</i>	10108642	23	LC50/MOR//		LAB/S/I	4	107.15	7.375	15.3		2039
41	4277	<i>Ictalurus punctatus</i>	10108642	7.94	LC50/MOR//	0.4 g, juvenile	LAB/S/I	4	67	7.5	17	conductivity 104-165 umhos/cm, complete dilution waterlots	10485
41	4333	<i>Lepomis macrochirus</i>	10108642	8.81	LC50/MOR//	0.7 g, juvenile	LAB/S/I	4	67	7.5	17	conductivity 104-165 umhos/cm, complete dilution watered	10485
41	7448	<i>Lepomis macrochirus</i>	10124364	0.1	/BEH//	5 cm	LAB/S/I	14	105	6.5	22		15561
41	7449	<i>Lepomis macrochirus</i>	10124364	0.5	/MOR//	5 cm	LAB/S/I	14	105	6.5	22		15561
41	4427	<i>Micropterus salmoides</i>	10108642	1.64	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
41	5816	<i>Oryzias latipes</i>	10108642	0.0055	/REP/CHG/ANOSIG	adult	LAB/R/C	14	82.5	6.637	29		62870
41	5817	<i>Oryzias latipes</i>	10108642	0.0055	/REP/CHG/ANOSIG	adult	LAB/R/C	14	82.5	6.637	29		62870
41	5818	<i>Oryzias latipes</i>	10108642	0.0055	/REP/INC/ANOSIG	adult	LAB/R/C	14	82.5	6.637	29		62870
41	5819	<i>Oryzias latipes</i>	10108642	0.0055	/MOR/CHG/ANOSIG	adult	LAB/R/C	14	82.5	6.637	29		62870
41	5820	<i>Oryzias latipes</i>	10108642	0.0055	/MPH/CHG/ANOSIG	adult	LAB/R/C	14	82.5	6.637	29		62870
41	5826	<i>Oryzias latipes</i>	10108642	0.001	/BCM/INC/SIG	adult	LAB/R/C	14	82.5	6.637	29		62870
41	5827	<i>Oryzias latipes</i>	10108642	0.005	/HRM/INC/NOSIG	adult	LAB/R/C	14	82.5	6.637	29		62870
41	5828	<i>Oryzias latipes</i>	10108642	0.0055	/HRM/INC/ANOSIG	adult	LAB/R/C	14	82.5	6.637	29		62870
41	5832	<i>Oryzias latipes</i>	10108642	0.0055	/MOR/CHG/	2 d, hatchling	LAB/R/C	14	82.5	6.637	25		62870
41	5839	<i>Oryzias latipes</i>	10108642	0.0055	/MPH/CHG/ANOSIG	2 d, hatchling	LAB/R/C	14	82.5	6.637	25		62870
41	5840	<i>Oryzias latipes</i>	10108642	0.0055	/MOR/CHG/ANOSIG	2 d, hatchling	LAB/R/C	14	82.5	6.637	25		62870
41	5841	<i>Oryzias latipes</i>	10108642	0.0055	/REP/CHG/ANOSIG	2 d, hatchling	LAB/R/C	14	82.5	6.637	25		62870
41	5842	<i>Oryzias latipes</i>	10108642	0.0055	/REP/CHG/ANOSIG	2 d, hatchling	LAB/R/C	14	82.5	6.637	25		62870
41	5843	<i>Oryzias latipes</i>	10108642	0.0055	/REP/CHG/ANOSIG	2 d, hatchling	LAB/R/C	14	82.5	6.637	25		62870
41	5119	<i>Pimephales promelas</i>	10108642	3.39	LC50/MOR//	30 d, juvenile	LAB/S/I	4	67	7.5	25	conductivity 104-165 umhos/cm, complete dilution water	10485
41	5144	<i>Pimephales promelas</i>	10108642	3.06	LC50/MOR/INC/	40 mm	LAB/S/C	4	100	7.4	22	newton hatchery fish	10237
41	5145	<i>Pimephales promelas</i>	10108642	3.89	LC50/MOR/INC/	40 mm	LAB/S/C	4	100	7.4	22	flyash pond fish	10237

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
41	7377	<i>Pimephales promelas</i>	10124364	0.008	/GRO/DEC/SIG		LAB/F/C	5	92.8	6.35	24	dickie lake	45189
41	7378	<i>Pimephales promelas</i>	10124364	0.0053	/GRO/DEC/SIG		LAB/F/C	5	92.8	6.35	24	dickie lake	45189
41	7379	<i>Pimephales promelas</i>	10124364	0.0053	/GRO/DEC/NOSIG		LAB/F/C	5	92.8	6.35	24	dickie lake	45189
41	7380	<i>Pimephales promelas</i>	10124364	0.008	/GRO/DEC/SIG		LAB/F/C	5	92.8	6.35	24	dickie lake	45189
41	7330	<i>Tilapia mossambica</i>	10124364	12	LC50/MOR/INC/	12.52 g	LAB/R/C	4	107	7.8	27.8		20031
41	7501	<i>Tilapia mossambica</i>	10124364	5.2	/GEN/INC/	12.5 g	LAB/S/C	30	71	7.64	28		20031
41	7502	<i>Tilapia mossambica</i>	10124364	5.2	/BCM/INC/	12.5 g	LAB/S/C	30	71	7.64	28		20031
41	5408	<i>Tilapia nilotica</i>	10108642	8.075	LC50/MOR/INC/	fingerling, 15 g, 11 cm	LAB//	4	104	7.4	23		45153
42	Vertebrates exposed to cadmium in soft water at <15degC over 3-30 days exposure												
42	3098	<i>Anguilla japonica</i>	10108642	2.32	LC50/MOR/INC/	juvenile, 0.135 g, 5.6 cm	LAB/R/	4	31.5	7.555	15		18914
42	3257	<i>Catostomus commersoni</i>	10108642	1.11	LC50/MOR//	17.7 g, 121 mm, fork length	LAB/F/I	4	18	6.37	12.1	water profile given	10228
42	4523	<i>Oncorhynchus kisutch</i>	10108642	0.002	LC50/MOR//	alevins-buttoned-up fry	LAB/R/I	4	22	7.4	10	water parameters rpt, willamette river, organic carbon 3.4	111
42	4524	<i>Oncorhynchus kisutch</i>	10108642	0.0037	LC50/MOR/INC/		LAB/F/C	8.96	22	7.3	10		2060
42	6366	<i>Oncorhynchus kisutch</i>	10108642	0.0034	/POP//	sac fry	LAB/F/S	27	45	7.6	10.1	acidity 3.0 mgl	2434
42	6367	<i>Oncorhynchus kisutch</i>	10108642	0.0013	/POP//	sac fry	LAB/F/S	27	45	7.6	10.1	acidity 3.0 mgl	2434
42	2498	<i>Oncorhynchus mykiss</i>	7440439	0.0026	LC50/MOR//	45 mm, 36 g	LAB/F/S	4	47	6.87	13	conductivity 118 umhoscm	9536
42	2499	<i>Oncorhynchus mykiss</i>	7440439	0.0031	LC50/MOR//	50 mm	LAB/F/S	4	49	6.98	13.5	conductivity 90.6 umhoscm	9536
42	2504	<i>Oncorhynchus mykiss</i>	7440439	0.0027	LC50/MOR//	45 mm, 36 g	LAB/F/S	4	47	6.87	13	conductivity 118 umhoscm	9536
42	2505	<i>Oncorhynchus mykiss</i>	7440439	0.003	LC50/MOR//	50 mm	LAB/F/S	4	49	6.98	13.5	conductivity 90.6 umhoscm	9536
42	4540	<i>Oncorhynchus mykiss</i>	10108642	0.0056	LC50/MOR/INC/		LAB/S/I	4	47.4	7.5	15	lake superior water	3690

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
42	4543	<i>Oncorhynchus mykiss</i>	10108642	0.0023	LC50/MOR//	0.5 g, juvenile	LAB/S/I	4	43.5	7.45	12	acidity, conductivity 136-167 umhoscm	10485
42	4565	<i>Oncorhynchus mykiss</i>	10108642	0.0011	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/S	5	33	6.6	12.6		791
42	4566	<i>Oncorhynchus mykiss</i>	10108642	0.027	LC50/MOR//	alevin	LAB/F/S	4	23	7.1	12.2		2027
42	4567	<i>Oncorhynchus mykiss</i>	10108642	0.0013	LC50/MOR//	swim-up, 0.17 g	LAB/F/S	4	23	7.1	12.2		2027
42	4568	<i>Oncorhynchus mykiss</i>	10108642	0.001	LC50/MOR//	parr, 6.96 g, 8.6 cm	LAB/F/S	4	23	7.1	12.2		2027
42	4569	<i>Oncorhynchus mykiss</i>	10108642	0.0029	LC50/MOR//	smolt, 68.19 g, 18.8 cm	LAB/F/S	4	23	7.1	12.2		2027
42	4570	<i>Oncorhynchus mykiss</i>	10108642	0.027	LC50/MOR//	alevin	LAB/F/S	7.75	23	7.1	12.2		2027
42	4571	<i>Oncorhynchus mykiss</i>	10108642	0.0013	LC50/MOR//	swim-up, 0.17 g	LAB/F/S	8.33	23	7.1	12.2		2027
42	4572	<i>Oncorhynchus mykiss</i>	10108642	0.0009	LC50/MOR//	parr, 6.96 g, 8.6 cm	LAB/F/S	8.33	23	7.1	12.2		2027
42	4573	<i>Oncorhynchus mykiss</i>	10108642	0.0016	LC50/MOR//	smolt, 68.19 g, 18.8 cm	LAB/F/S	8.33	23	7.1	12.2		2027
42	4923	<i>Oncorhynchus mykiss</i>	10108642	0.0052	LC50/MOR/INC/		LAB/F/C	17	54	7.5	9.6		2060
42	4929	<i>Oncorhynchus mykiss</i>	10108642	0.007	LC50/MOR//	1.0 g, 32 mm	LAB/S/I	4	35	7.1	12		3780
42	4956	<i>Oncorhynchus mykiss</i>	10108642	0.0018	NOEC/MOR//	1.0 g, 32 mm	LAB/S/I	4	35	7.1	12		3780
42	7060	<i>Oncorhynchus mykiss</i>	10124364	0.003	LC50/MOR//	136 mm	LAB/F/S	4	31	6.84	12	conductivity 144 umhoscm	10208
42	7075	<i>Oncorhynchus mykiss</i>	10124364	0.0053	NOEC/MOR//	eggs	LAB/F/S	30	27.1	6.93	12.3	conductivity 122(90-160) umhoscm	10208
42	7076	<i>Oncorhynchus mykiss</i>	10124364	0.0011	NOEC/MOR//	136 mm	LAB/F/S	30	31	6.84	12.4	conductivity 143.8(140-150) umhoscm	10208
42	7858	<i>Oncorhynchus mykiss</i>	7440439	0.0007	/MOR/NEF/		FIELDN/E/O	14	25.5	7.3	10	0.5 m diameter x 1.5 m cage	10107
42	7859	<i>Oncorhynchus mykiss</i>	7440439	0.0007	/GRO/CHG/		FIELDN/E/O	14	25.5	7.3	10	0.5 m diameter x 1.5 m cage	10107

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42	7860	<i>Oncorhynchus mykiss</i>	7440439	0.0007	/BCM/INC/		FIELDN/E/O	14	25.5	7.3	10	0.5 m diameter x 1.5 m cage	10107
42	4964	<i>Oncorhynchus tshawytscha</i>	10108642	0.026	LC50/MOR//	alevin, 0.05 g	LAB/F/S	4	23	7.1	12.2		2027
42	4965	<i>Oncorhynchus tshawytscha</i>	10108642	0.0018	LC50/MOR//	swim-up, 0.23 g	LAB/F/S	4	23	7.1	12.2		2027
42	4966	<i>Oncorhynchus tshawytscha</i>	10108642	0.0035	LC50/MOR//	parr, 11.58 g, 9.6 cm	LAB/F/S	4	23	7.1	12.2		2027
42	4967	<i>Oncorhynchus tshawytscha</i>	10108642	0.0029	LC50/MOR//	smolt, 32.46 g, 14.4 cm	LAB/F/S	4	23	7.1	12.2		2027
42	4968	<i>Oncorhynchus tshawytscha</i>	10108642	0.026	LC50/MOR//	alevin, 0.05 g	LAB/F/S	8.33	23	7.1	12.2		2027
42	4969	<i>Oncorhynchus tshawytscha</i>	10108642	0.0016	LC50/MOR//	swim-up, 0.23 g	LAB/F/S	8.33	23	7.1	12.2		2027
42	4970	<i>Oncorhynchus tshawytscha</i>	10108642	0.002	LC50/MOR//	parr, 11.58 g, 9.6 cm	LAB/F/S	8.33	23	7.1	12.2		2027
42	4971	<i>Oncorhynchus tshawytscha</i>	10108642	0.0023	LC50/MOR//	smolt, 32.46 g, 14.4 cm	LAB/F/S	8.33	23	7.1	12.2		2027
42	5285	<i>Ptychocheilus oregonensis</i>	10108642	1.104	LC50/MOR//	juvenile, 2.49 g, 6.0 cm	LAB/F/S	4	25	7.3	12		461
42	5286	<i>Ptychocheilus oregonensis</i>	10108642	1.062	LC50/MOR//	juvenile, 2.49 g, 6.0 cm	LAB/F/S	7	25	7.3	12		461
42	5328	<i>Salmo salar</i>	10108642	4.8	LC50/MOR//	stage 18	LAB/S/I	10	28	7.05	9.6	unionized nh3 not > 10 ugl	15983
42	5329	<i>Salmo salar</i>	10108642	3.2	LC50/MOR//	stage 18	LAB/S/I	10	28	7.05	9.6	unionized nh3 not > 10 ugl	15983
42	5330	<i>Salmo salar</i>	10108642	0.002	LT50/MOR//	newly hat alevin	LAB/F/S	23.5	13	6.65	10		10494
42	5331	<i>Salmo salar</i>	10108642	0.002	LT50/MOR//	fry, 34 d post-hat	LAB/F/S	12.5	13	6.65	11		10494
42	6565	<i>Salmo salar</i>	10108642	0.0002	/MOR//	fry, 34 d post-hat	LAB/F/S	30	13	6.65	11		10494
42	6566	<i>Salmo salar</i>	10108642	0.002	/MOR//	fry, 34 d post-hat	LAB/F/S	30	13	6.65	11		10494
42	7289	<i>Salmo salar</i>	10124364	0.0762	LT50/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	3.75	14	6.8	4.3	ca	8483
42	7487	<i>Salmo salar</i>	10124364	0.0739	/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	3.13	14	6.8	4.3	ca	8483
42	5334	<i>Salmo trutta</i>	10108642	0.0014	LC50/MOR//	1-2 g, juvenile	LAB/S/I	4	43.5	7.45	12	acidity, conductivity 136-167 umhoscm	10485
42	2557	<i>Salvelinus fontinalis</i>	7440439	0.014	IC50/MOR/DEC/		LAB/R/C	10	20	6.95	15		45106
42	2558	<i>Salvelinus fontinalis</i>	7440439	0.11	IC50/MOR/DEC/		LAB/R/C	10	22	7	15		45106
42	2559	<i>Salvelinus fontinalis</i>	7440439	0.018	LOEC/MOR/DEC/SIG		LAB/S/C	10	20	6.95	15		45106

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42	2560	<i>Salvelinus fontinalis</i>	7440439	0.132	LOEC/MOR/DEC/		LAB/R/C	10	22	7	15		45106
42	2561	<i>Salvelinus fontinalis</i>	7440439	0.012	MATC/MOR/DEC/		LAB/R/C	10	20	6.95	15		45106
42	2562	<i>Salvelinus fontinalis</i>	7440439	0.091	MATC/MOR/DEC/		LAB/R/C	10	22	7	15		45106
42	2563	<i>Salvelinus fontinalis</i>	7440439	0.008	NOEC/MOR/DEC/NOSIG		LAB/S/C	10	20	6.95	15		45106
42	2564	<i>Salvelinus fontinalis</i>	7440439	0.018	NOEC/GRO/DEC/NOSIG		LAB/R/C	10	20	6.95	15		45106
42	2565	<i>Salvelinus fontinalis</i>	7440439	0.132	NOEC/GRO/DEC/NOSIG		LAB/R/C	10	22	7	15		45106
42	2566	<i>Salvelinus fontinalis</i>	7440439	0.062	NOEC/MOR/DEC/NOSIG		LAB/R/C	10	22	7	15		45106
42	5337	<i>Salvelinus fontinalis</i>	10108642	5.08	LC50/MOR//	100 g	LAB/F/I	4	47.4	7.15	12.2		10417
42	5902	<i>Salvelinus fontinalis</i>	10108642	0.2485	/MOR/CHG/	yearling, 110 g, 21 cm tl	LAB/F/C	7	45	7.5	12		14381
42	5903	<i>Salvelinus fontinalis</i>	10108642	0.2485	/MOR/CHG/	yearling, 110 g, 21 cm tl	LAB/F/C	6	45	7.5	12		14381
42	6583	<i>Salvelinus fontinalis</i>	10108642	0.0007	/GRO//	alevin, 21 d	LAB/F/I	21	45.3	7.74	12		2432
42	6584	<i>Salvelinus fontinalis</i>	10108642	0.0007	/ENZ//	alevin, 21 d	LAB/F/S	21	45.3	7.74	12		2432
42	6588	<i>Salvelinus fontinalis</i>	10108642	0.0064	/BCM//	yearling	LAB/F/S	14	44	7.5	9		7027
42	6602	<i>Salvelinus fontinalis</i>	10108642	1.195	/MOR/CHG/	yearling, 110 g, 21 cm tl	LAB/F/C	6	45	7.5	12		14381
42	7308	<i>Salvelinus fontinalis</i>	10124364	0.0024	LC50/MOR//	3 mo, 0.21 g	LAB/S/I	4	44	7.15	12	reconstituted water	2032
42	7390	<i>Salvelinus fontinalis</i>	10124364	0.0018	NR-LETH/MOR//	3 mo, 0.21 g	LAB/S/I	4	42	7.2	12	reconstituted water	2032
43	Vertebrates exposed to cadmium in soft water at >15degC over 3-30 days exposure												
43	3080	<i>Ambystoma gracile</i>	10108642	0.4684	LC50/MOR/INC/	3 mo larvae	LAB/F/C	4	45	6.8	20		16130
43	3081	<i>Ambystoma gracile</i>	10108642	0.1931	LOEC/GRO//SIG	larva, 3-4 mo	LAB/F/S	24	45	6.8	20		13685
43	3082	<i>Ambystoma gracile</i>	10108642	0.0446	LOEC/GRO//SIG	larva, 3-4 mo	LAB/F/S	10	45	6.8	20		13685
43	3083	<i>Ambystoma gracile</i>	10108642	0.1931	LOEC/GRO/DEC/SIG	3 mo larvae	LAB/F/C	24	45	6.8	20		16130
43	3084	<i>Ambystoma gracile</i>	10108642	0.2273	LOEC/GRO/DEC/SIG	3 mo larvae	LAB/F/C	10	45	6.8	20		16130
43	3085	<i>Ambystoma gracile</i>	10108642	0.0972	MATC/GRO/DEC/	3 mo larvae	LAB/F/C	24	45	6.8	20		16130
43	3086	<i>Ambystoma gracile</i>	10108642	0.0489	NOEC/GRO//NOSIG	larva, 3-4 mo	LAB/F/S	24	45	6.8	20		13685
43	3087	<i>Ambystoma gracile</i>	10108642	0.0128	NOEC/GRO//NOSIG	larva, 3-4 mo	LAB/F/S	10	45	6.8	20		13685
43	3088	<i>Ambystoma gracile</i>	10108642	0.0489	NOEC/GRO/DEC/NOSIG	3 mo larvae	LAB/F/C	24	45	6.8	20		16130
43	3089	<i>Ambystoma gracile</i>	10108642	0.1063	NOEC/GRO/DEC/NOSIG	3 mo larvae	LAB/F/C	10	45	6.8	20		16130
43	5519	<i>Ambystoma gracile</i>	10108642	0.5351	NR-ZERO/MOR/NEF/	3 mo larvae	LAB/F/C	10	45	6.8	20		16130
43	3096	<i>Anguilla japonica</i>	10108642	1.68	LC50/MOR/INC/	juvenile, 0.135 g, 5.6 cm	LAB/R/	4	44.5	7.585	30		18914
43	3097	<i>Anguilla japonica</i>	10108642	3.77	LC50/MOR/INC/	juvenile, 0.135 g, 5.6 cm	LAB/R/	4	45.5	7.55	25		18914

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43	5526	<i>Anguilla japonica</i>	10108642	12.65	/GRO/DEC/SIG	juvenile, 0.135 g, 5.6 cm	LAB/R/	28	39	7.555	22.5		18914
43	5527	<i>Anguilla japonica</i>	10108642	12.65	/FDB/CHG/NOSIG	juvenile, 0.135 g, 5.6 cm	LAB/R/	28	39	7.555	22.5		18914
43	5528	<i>Anguilla japonica</i>	10108642	12.65	/PHY/DEC/SIG	juvenile, 0.135 g, 5.6 cm	LAB/R/	28	39	7.555	22.5		18914
43	2169	<i>Anguilla rostrata</i>	7440439	0.82	LC50/MOR//		LAB/S/I	4	55	8	28		2002
43	3248	<i>Carassius auratus</i>	10108642	0.748	LC50/MOR//	8.8 g	LAB/F/I	4	44.4	7.45	17.3		10775
43	3464	Cyprinidae	10108642	3	LC50/MOR//		LAB/S/I	4	4.65	6.2	22		12185
43	2355	<i>Cyprinus carpio</i>	7440439	0.24	LC50/MOR//		LAB/S/I	4	55	8	28		2002
43	7611	<i>Gambusia affinis</i>	10325947	2.2	LC50/MOR//	38(32-50) mm	LAB/F/S	4	11.1	6.5	28	see paper for more water chemistry parameters	2024
43	6255	<i>Garra mullya</i>	10108642	0.025	/MPH/DEC/	10.5 g, 10 cm tl	LAB//C	30	50	7.4	24		11016
43	6256	<i>Garra mullya</i>	10108642	0.025	/HIS/INC/	10.5 g, 10 cm tl	LAB//C	30	50	7.4	24		11016
43	4281	<i>Ictalurus punctatus</i>	10108642	4.48	LC50/MOR//	7.4 g	LAB/F/I	4	44.4	7.45	17.3		10775
43	5692	<i>Ictalurus punctatus</i>	10108642	0.055	/GEN/INC/NOSIG	10-60 g, juvenile	LAB/S/C	7	25	6.6	19.5		18027
43	4285	<i>Jordanella floridae</i>	10108642	2.5	LC50/MOR//	juvenile, 4-5 wk	LAB/F/I	4	44	7.45	25		2037
43	4286	<i>Jordanella floridae</i>	10108642	2.5	LC50/MOR/INC/	juvenile, 4-5 wk	LAB/F/C	4	44	7.45	25		2442
43	4290	<i>Jordanella floridae</i>	10108642	0	LOEC/MOR/INC/SIG	juvenile, 4-5 wk	LAB/F/C	4	44	7.45	25		2442
43	4295	<i>Jordanella floridae</i>	10108642	0	MATC/MOR/INC/	juvenile, 4-5 wk	LAB/F/C	4	44	7.45	25		2442
43	4299	<i>Jordanella floridae</i>	10108642	0	NOEC/MOR/INC/NOSIG	juvenile, 4-5 wk	LAB/F/C	4	44	7.45	25		2442
43	5696	<i>Jordanella floridae</i>	10108642	0.031	/MOR//SIG	embryo	LAB/F/S	30	44	7.45	25		2037
43	5697	<i>Jordanella floridae</i>	10108642	0.016	/MOR//NOSIG	embryo	LAB/F/S	30	44	7.45	25		2037
43	5698	<i>Jordanella floridae</i>	10108642	0.0085	/MOR/INC/NOSIG	1 d larvae	LAB/F/C	22	45	7.5	25		15954
43	5699	<i>Jordanella floridae</i>	10108642	0.0085	/MOR/INC/SIG	embryo	LAB/F/C	22	45	7.5	25		15954
43	5700	<i>Jordanella floridae</i>	10108642	0.0085	/GRO/DEC/NOSIG	embryo	LAB/F/C	30	45	7.5	25		15954
43	5701	<i>Jordanella floridae</i>	10108642	0.0085	/GRO/DEC/NOSIG	f1 generation	LAB/F/C	30	45	7.5	25		15954
43	4328	<i>Lepomis cyanellus</i>	10108642	2.84	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.3	25		2033
43	2440	<i>Lepomis gibbosus</i>	7440439	1.5	LC50/MOR//		LAB/S/I	4	55	8	28		2002
43	4348	<i>Lepomis macrochirus</i>	10108642	6.47	LC50/MOR//	1.0 g	LAB/F/I	4	44.4	7.45	17.3		10775
43	4353	<i>Lepomis macrochirus</i>	10108642	1.94	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.3	25		2033
43	4358	<i>Lepomis macrochirus</i>	10108642	6.62	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	4	35	7.1	21		3780
43	4368	<i>Lepomis macrochirus</i>	10108642	4.2	NOEC/MOR//	1.1 g, 37 mm	LAB/S/I	4	35	7.1	21		3780

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
43	6333	<i>Micropterus salmoides</i>	10108642	0.07	/MOR//	80.4 g, 77.8 cm	LAB/F/U	3.5	54	6.2	25		15362
43	2463	<i>Morone americana</i>	7440439	8.4	LC50/MOR//		LAB/S/I	4	55	8	28		2002
43	2468	<i>Morone saxatilis</i>	7440439	1.1	LC50/MOR//		LAB/S/I	4	55	8	28		2002
43	2471	<i>Notemigonus crysoleucas</i>	7440439	3.15	LC50/MOR//	adult, 70-90 mm	LAB/S/I	4	31.5	7.45	24		12205
43	4563	<i>Oncorhynchus mykiss</i>	10108642	0.0005	LC50/MOR//	2.36-3.01 g	LAB/F/S	4	9.2	6.96	15.75		2725
43	4564	<i>Oncorhynchus mykiss</i>	10108642	0.0005	LC50/MOR//	2.36-3.01 g	LAB/F/S	7	9.2	6.96	15.75		2725
43	4581	<i>Oncorhynchus mykiss</i>	10108642	0.003	LC50/MOR//	8.8 g	LAB/F/I	4	44.4	7.45	17.3		10775
43	7063	<i>Oncorhynchus mykiss</i>	10124364	0.0029	LC50/MOR/INC/	38 mm, 1.6 g	LAB//	4	12	6.65	16		20720
43	7373	<i>Oncorhynchus mykiss</i>	10124364	0.0143	NR-LETH/MOR/INC/	38 mm, 1.6 g	LAB//	4	12	6.65	16		20720
43	7374	<i>Oncorhynchus mykiss</i>	10124364	0.0014	NR-ZERO/MOR/NEF/	38 mm, 1.6 g	LAB//	4	12	6.65	16		20720
43	5088	<i>Pimephales promelas</i>	10108642	2.2	LC50/MOR/INC/	juvenile	LAB/S/	4	30.5	7.9	20	pond water with sediment	12647
43	5091	<i>Pimephales promelas</i>	10108642	3.2	LC50/MOR/INC/	juvenile	LAB/S/	4	20.3	7.5	20	pond water	12647
43	5092	<i>Pimephales promelas</i>	10108642	2.78	LC50/MOR/INC/	juvenile	LAB/S/	4	20.3	7.5	20		12647
43	5093	<i>Pimephales promelas</i>	10108642	2.31	LC50/MOR/INC/	juvenile	LAB/S/	4	30.5	7.9	20	pond water with sediment	12647
43	5120	<i>Pimephales promelas</i>	10108642	1.28	LC50/MOR//	30 d, juvenile	LAB/S/I	4	43.5	7.45	25	acidity, conductivity 136-167 umhoscm	10485
43	5130	<i>Pimephales promelas</i>	10108642	1.5	LC50/MOR//	0.6 g	LAB/F/I	4	44.4	7.45	17.3		10775
43	5137	<i>Pimephales promelas</i>	10108642	0.0048	LC50/MOR/INC/	2-4 d	LAB/S/C	4	17	6.6	22		18420
43	5138	<i>Pimephales promelas</i>	10108642	0.0044	LC50/MOR/INC/	2-4 d	LAB/S/C	7	17	6.6	22		18420
43	5139	<i>Pimephales promelas</i>	10108642	0.0016	LC50/MOR/INC/	2-4 d	LAB/S/C	10	17	6.6	22		18420
43	5140	<i>Pimephales promelas</i>	10108642	0.0023	LC50/MOR/INC/	2-4 d	LAB/S/C	14	17	6.6	22		18420

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/ Trend/Significant)*	Test Organism	Design (Location/E xposure/Co ntrol Type)*	Days	Hardness	pH	°C	Design Comment	Citation
43	5160	<i>Pimephales promelas</i>	10108642	1.05	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.3	25		2033
43	5163	<i>Pimephales promelas</i>	10108642	0.63	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.3	25		2033
43	5175	<i>Pimephales promelas</i>	10108642	0.006	LOEC/MOR/INC/SIG	2-4 d	LAB/S/C	7	17	6.6	22		18420
43	5176	<i>Pimephales promelas</i>	10108642	0.002	LOEC/REP/INC/SIG	2-4 d	LAB/S/C	10	17	6.6	22		18420
43	5177	<i>Pimephales promelas</i>	10108642	0.002	LOEC/GRO/INC/SIG	2-4 d	LAB/S/C	10	17	6.6	22		18420
43	5178	<i>Pimephales promelas</i>	10108642	0.003	LOEC/MOR/INC/SIG	2-4 d	LAB/S/C	14	17	6.6	22		18420
43	5179	<i>Pimephales promelas</i>	10108642	0.003	LOEC/GRO/DEC/SIG	2-4 d	LAB/S/C	14	17	6.6	22		18420
43	5197	<i>Pimephales promelas</i>	10108642	0.004	NOEC/MOR/INC/NOSIG	2-4 d	LAB/S/C	7	17	6.6	22		18420
43	5198	<i>Pimephales promelas</i>	10108642	0.001	NOEC/REP/INC/NOSIG	2-4 d	LAB/S/C	10	17	6.6	22		18420
43	5199	<i>Pimephales promelas</i>	10108642	0.002	NOEC/GRO/NEF/NOSIG	2-4 d	LAB/S/C	10	17	6.6	22		18420
43	5200	<i>Pimephales promelas</i>	10108642	0.002	NOEC/MOR/NEF/NOSIG	2-4 d	LAB/S/C	14	17	6.6	22		18420
43	5201	<i>Pimephales promelas</i>	10108642	0.003	NOEC/GRO/NEF/NOSIG	2-4 d	LAB/S/C	14	17	6.6	22		18420
43	5862	<i>Pimephales promelas</i>	10108642	0.01	NR-LETH/MOR/INC/	2-4 d	LAB/S/C	7	17	6.6	22		18420
43	5863	<i>Pimephales promelas</i>	10108642	0.006	NR-LETH/MOR/INC/	2-4 d	LAB/S/C	10	17	6.6	22		18420
43	5864	<i>Pimephales promelas</i>	10108642	0.004	NR-LETH/MOR/INC/	2-4 d	LAB/S/C	14	17	6.6	22		18420
43	7163	<i>Pimephales promelas</i>	10124364	0.003	LC50/MOR/INC/		LAB/F/C	4	10.7	6.29	24	halls lake	45189
43	7164	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	5	10.7	6.29	24	halls lake	45189
43	7165	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	6	10.7	6.29	24	halls lake	45189
43	7166	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	7	10.7	6.29	24	halls lake	45189
43	7167	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	8	10.7	6.29	24	halls lake	45189

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/ Trend/Significant)*	Test Organism	Design (Location/E xposure/Co ntrol Type)*	Days	Hardness	pH	°C	Design Comment	Citation
43	7168	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	9	10.7	6.29	24	halls lake	45189
43	7169	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	10	10.7	6.29	24	halls lake	45189
43	7170	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	11	10.7	6.29	24	halls lake	45189
43	7171	<i>Pimephales promelas</i>	10124364	0.001	LC50/MOR/INC/		LAB/F/C	12	10.7	6.29	24	halls lake	45189
43	7172	<i>Pimephales promelas</i>	10124364	0.001	LC50/MOR/INC/		LAB/F/C	13	10.7	6.29	24	halls lake	45189
43	7173	<i>Pimephales promelas</i>	10124364	0.001	LC50/MOR/INC/		LAB/F/C	14	10.7	6.29	24	halls lake	45189
43	7174	<i>Pimephales promelas</i>	10124364	0.001	LC50/MOR/INC/		LAB/F/C	15	10.7	6.29	24	halls lake	45189
43	7175	<i>Pimephales promelas</i>	10124364	0.001	LC50/MOR/INC/		LAB/F/C	16	10.7	6.29	24	halls lake	45189
43	7176	<i>Pimephales promelas</i>	10124364	0.001	LC50/MOR/INC/		LAB/F/C	17	10.7	6.29	24	halls lake	45189
43	7177	<i>Pimephales promelas</i>	10124364	0.001	LC50/MOR/INC/		LAB/F/C	18	10.7	6.29	24	halls lake	45189
43	7178	<i>Pimephales promelas</i>	10124364	0.001	LC50/MOR/INC/		LAB/F/C	19	10.7	6.29	24	halls lake	45189
43	7179	<i>Pimephales promelas</i>	10124364	0.001	LC50/MOR/INC/		LAB/F/C	20	10.7	6.29	24	halls lake	45189
43	7180	<i>Pimephales promelas</i>	10124364	0.001	LC50/MOR/INC/		LAB/F/C	21	10.7	6.29	24	halls lake	45189
43	7184	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	4	10.7	6.29	24	halls lake	45189
43	7185	<i>Pimephales promelas</i>	10124364	0.0005	LC50/MOR/INC/		LAB/F/C	5	10.7	6.29	24	halls lake	45189
43	7186	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	6	10.7	6.29	24	halls lake	45189
43	7187	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	7	10.7	6.29	24	halls lake	45189
43	7188	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	8	10.7	6.29	24	halls lake	45189
43	7189	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	9	10.7	6.29	24	halls lake	45189
43	7190	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	10	10.7	6.29	24	halls lake	45189

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43	7191	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	11	10.7	6.29	24	halls lake	45189
43	7192	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	12	10.7	6.29	24	halls lake	45189
43	7193	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	13	10.7	6.29	24	halls lake	45189
43	7194	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	14	10.7	6.29	24	halls lake	45189
43	7195	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	15	10.7	6.29	24	halls lake	45189
43	7196	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	16	10.7	6.29	24	halls lake	45189
43	7197	<i>Pimephales promelas</i>	10124364	0.0005	LC50/MOR/INC/		LAB/F/C	17	10.7	6.29	24	halls lake	45189
43	7198	<i>Pimephales promelas</i>	10124364	0.0005	LC50/MOR/INC/		LAB/F/C	18	10.7	6.29	24	halls lake	45189
43	7199	<i>Pimephales promelas</i>	10124364	0.0005	LC50/MOR/INC/		LAB/F/C	19	10.7	6.29	24	halls lake	45189
43	7200	<i>Pimephales promelas</i>	10124364	0.0005	LC50/MOR/INC/		LAB/F/C	20	10.7	6.29	24	halls lake	45189
43	7201	<i>Pimephales promelas</i>	10124364	0.0005	LC50/MOR/INC/		LAB/F/C	21	10.7	6.29	24	halls lake	45189
43	7204	<i>Pimephales promelas</i>	10124364	0.0045	LC50/MOR/INC/		LAB/F/C	4	9.28	6.35	24	dickie lake	45189
43	7205	<i>Pimephales promelas</i>	10124364	0.0045	LC50/MOR/INC/		LAB/F/C	5	9.28	6.35	24	dickie lake	45189
43	7206	<i>Pimephales promelas</i>	10124364	0.003	LC50/MOR/INC/		LAB/F/C	6	9.28	6.35	24	dickie lake	45189
43	7207	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	7	9.28	6.35	24	dickie lake	45189
43	7208	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	8	9.28	6.35	24	dickie lake	45189
43	7209	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	9	9.28	6.35	24	dickie lake	45189
43	7210	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	10	9.28	6.35	24	dickie lake	45189
43	7211	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	11	9.28	6.35	24	dickie lake	45189
43	7212	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	12	9.28	6.35	24	dickie lake	45189

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

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43	7213	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	13	9.28	6.35	24	dickie lake	45189
43	7214	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	14	9.28	6.35	24	dickie lake	45189
43	7215	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	15	9.28	6.35	24	dickie lake	45189
43	7216	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	16	9.28	6.35	24	dickie lake	45189
43	7217	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	17	9.28	6.35	24	dickie lake	45189
43	7218	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	18	9.28	6.35	24	dickie lake	45189
43	7219	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	19	9.28	6.35	24	dickie lake	45189
43	7220	<i>Pimephales promelas</i>	10124364	0.0015	LC50/MOR/INC/		LAB/F/C	20	9.28	6.35	24	dickie lake	45189
43	7221	<i>Pimephales promelas</i>	10124364	0.0005	LC50/MOR/INC/		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
43	7222	<i>Pimephales promelas</i>	10124364	0.0045	LC50/MOR/INC/		LAB/F/C	6	9.28	6.35	24	dickie lake	45189
43	7223	<i>Pimephales promelas</i>	10124364	0.003	LC50/MOR/INC/		LAB/F/C	7	9.28	6.35	24	dickie lake	45189
43	7224	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	8	9.28	6.35	24	dickie lake	45189
43	7225	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	9	9.28	6.35	24	dickie lake	45189
43	7226	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	10	9.28	6.35	24	dickie lake	45189
43	7227	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	11	9.28	6.35	24	dickie lake	45189
43	7228	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	12	9.28	6.35	24	dickie lake	45189
43	7229	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	13	9.28	6.35	24	dickie lake	45189
43	7230	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	14	9.28	6.35	24	dickie lake	45189
43	7231	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	15	9.28	6.35	24	dickie lake	45189
43	7232	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	16	9.28	6.35	24	dickie lake	45189

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SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
43	7233	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	17	9.28	6.35	24	dickie lake	45189
43	7234	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	18	9.28	6.35	24	dickie lake	45189
43	7235	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	19	9.28	6.35	24	dickie lake	45189
43	7236	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	20	9.28	6.35	24	dickie lake	45189
43	7237	<i>Pimephales promelas</i>	10124364	0.002	LC50/MOR/INC/		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
43	7262	<i>Pimephales promelas</i>	10124364	0.0012	LETC/MOR/INC/		LAB/F/C	21	10.7	6.29	24	halls lake	45189
43	7263	<i>Pimephales promelas</i>	10124364	0.002	LETC/MOR/INC/		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
43	7264	<i>Pimephales promelas</i>	10124364	0.0029	LOEC/GRO/DEC/SIG		LAB/F/C	21	10.7	6.29	24	halls lake	45189
43	7265	<i>Pimephales promelas</i>	10124364	0.0029	LOEC/GRO/DEC/SIG		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
43	7268	<i>Pimephales promelas</i>	10124364	0.0029	LOEC/GRO/DEC/SIG		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
43	7269	<i>Pimephales promelas</i>	10124364	0.0018	NOEC/GRO/DEC/NOSIG		LAB/F/C	21	10.7	6.29	24	halls lake	45189
43	7270	<i>Pimephales promelas</i>	10124364	0.0018	NOEC/GRO/DEC/NOSIG		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
43	7271	<i>Pimephales promelas</i>	10124364	0.0018	NOEC/GRO/DEC/NOSIG		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
43	7376	<i>Pimephales promelas</i>	10124364	0.0017	/GRO/DEC/ANOSIG		LAB/F/C	21	10.7	6.29	24	halls lake	45189
43	7381	<i>Pimephales promelas</i>	10124364	0.0017	/GRO/DEC/ANOSIG		LAB/F/C	5	10.7	6.29	24	halls lake	45189
43	7382	<i>Pimephales promelas</i>	10124364	0.0017	/GRO/DEC/MULT		LAB/F/C	5	10.7	6.29	24	halls lake	45189
43	7662	<i>Pimephales promelas</i>	10325947	13.2	LC50/MOR//	30 d, 0.15 g	LAB/F/I	4	43.9	7.4	25		12093
43	5247	<i>Poecilia reticulata</i>	10108642	1.27	LC50/MOR//	0.1-0.2 g, 1.9-2.5 cm, 6 mo	LAB/S/I	4	20	7.3	25		2033
43	5283	<i>Ptychocheilus oregonensis</i>	10108642	1.092	LC50/MOR//	juvenile, 1.44 g, 5.6 cm	LAB/F/S	4	25	7.3	17.2		461
43	5284	<i>Ptychocheilus oregonensis</i>	10108642	1.042	LC50/MOR//	juvenile, 1.44 g, 5.6 cm	LAB/F/S	7	25	7.3	17.2		461

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
43	6637	<i>Tilapia aurea</i>	10108642	5.05	/BCM//	90-130 mm	LAB/R/S	4	10.49	6.3	27		8038
44	Vertebrates exposed to cadmium in soft water at >15degC over 1-3 days exposure												
44	2168	<i>Anguilla rostrata</i>	7440439	1.1	LC50/MOR//		LAB/S/I	2	55	8	28		2002
44	3463	<i>Cyprinidae</i>	10108642	3.1	LC50/MOR//		LAB/S/I	2	4.65	6.2	22		12185
44	2354	<i>Cyprinus carpio</i>	7440439	0.3	LC50/MOR//		LAB/S/I	2	55	8	28		2002
44	3570	<i>Danio rerio</i>	10108642	2.5	LC50/MOR/INC/		LAB/F/	2	10.1	8	20		17278
44	4279	<i>Ictalurus punctatus</i>	10108642	5.02	LC50/MOR//	7.4 g	LAB/F/I	2	44.4	7.45	17.3		10775
44	4280	<i>Ictalurus punctatus</i>	10108642	4.61	LC50/MOR//	7.4 g	LAB/F/I	3	44.4	7.45	17.3		10775
44	5691	<i>Ictalurus punctatus</i>	10108642	0.1	/GEN/INC/MULT	10-60 g, juvenile	LAB/S/C	2.25	25	6.6	19.5		18027
44	4327	<i>Lepomis cyanellus</i>	10108642	3.68	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.3	25		2033
44	2439	<i>Lepomis gibbosus</i>	7440439	2.2	LC50/MOR//		LAB/S/I	2	55	8	28		2002
44	4346	<i>Lepomis macrochirus</i>	10108642	7.78	LC50/MOR//	1.0 g	LAB/F/I	2	44.4	7.45	17.3		10775
44	4347	<i>Lepomis macrochirus</i>	10108642	7.33	LC50/MOR//	1.0 g	LAB/F/I	3	44.4	7.45	17.3		10775
44	4352	<i>Lepomis macrochirus</i>	10108642	2.76	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.3	25		2033
44	4357	<i>Lepomis macrochirus</i>	10108642	7.41	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	2	35	7.1	21		3780
44	6332	<i>Micropterus salmoides</i>	10108642	1.23	/MOR//	80.4 g, 77.8 cm	LAB/F/U	2.33	54	6.1	25		15362
44	6336	<i>Micropterus salmoides</i>	10108642	0.07	/PHY//	80.4 g, 77.8 cm	LAB/F/U	1.29	54	6.2	25		15362
44	2462	<i>Morone americana</i>	7440439	1.1	LC50/MOR//		LAB/S/I	2	55	8	28		2002
44	2467	<i>Morone saxatilis</i>	7440439	1.5	LC50/MOR//		LAB/S/I	2	55	8	28		2002
44	2941	<i>Morone saxatilis</i>	7440439	0.0105	/MOR//	larvae, 1 d	LAB/S/S	1.42	44.7	7.5	17		10625
44	2479	<i>Oncorhynchus mykiss</i>	7440439	0.091	LC50/MOR//	fry, 3 cm	LAB/S/I	2	20	7.2	15.25		459
44	2482	<i>Oncorhynchus mykiss</i>	7440439	0.677	LC50/MOR//	fry, 3 cm	LAB/S/I	2	20	7.2	15.25		459
44	4579	<i>Oncorhynchus mykiss</i>	10108642	0.004	LC50/MOR//	8.8 g	LAB/F/I	2	44.4	7.45	17.3		10775
44	4580	<i>Oncorhynchus mykiss</i>	10108642	0.003	LC50/MOR//	8.8 g	LAB/F/I	3	44.4	7.45	17.3		10775
44	5128	<i>Pimephales promelas</i>	10108642	1.59	LC50/MOR//	0.6 g	LAB/F/I	2	44.4	7.45	17.3		10775
44	5129	<i>Pimephales promelas</i>	10108642	1.5	LC50/MOR//	0.6 g	LAB/F/I	3	44.4	7.45	17.3		10775

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
44	5136	<i>Pimephales promelas</i>	10108642	0.0089	LC50/MOR/INC/	2-4 d	LAB/S/C	2	17	6.6	22		18420
44	5159	<i>Pimephales promelas</i>	10108642	1.09	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.3	25		2033
44	5162	<i>Pimephales promelas</i>	10108642	0.67	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.3	25		2033
44	7161	<i>Pimephales promelas</i>	10124364	0.003	LC50/MOR/INC/		LAB/F/C	2	10.7	6.29	24	halls lake	45189
44	7162	<i>Pimephales promelas</i>	10124364	0.003	LC50/MOR/INC/		LAB/F/C	3	10.7	6.29	24	halls lake	45189
44	7182	<i>Pimephales promelas</i>	10124364	0.0045	LC50/MOR/INC/		LAB/F/C	2	10.7	6.29	24	halls lake	45189
44	7183	<i>Pimephales promelas</i>	10124364	0.0025	LC50/MOR/INC/		LAB/F/C	3	10.7	6.29	24	halls lake	45189
44	7202	<i>Pimephales promelas</i>	10124364	0.005	LC50/MOR/INC/		LAB/F/C	2	9.28	6.35	24	dickie lake	45189
44	7203	<i>Pimephales promelas</i>	10124364	0.005	LC50/MOR/INC/		LAB/F/C	3	9.28	6.35	24	dickie lake	45189
44	5246	<i>Poecilia reticulata</i>	10108642	2.31	LC50/MOR//	0.1-0.2 g, 1.9-2.5 cm, 6 mo	LAB/S/I	2	20	7.3	25		2033
45	Vertebrates exposed to cadmium in soft water at >15degC over <=1 day exposure												
45	2167	<i>Anguilla rostrata</i>	7440439	1.5	LC50/MOR//		LAB/S/I	1	55	8	28		2002
45	2588	<i>Barbus holubi</i>	7440439	0.1	/PHY/INC/		LAB/F/B	1	60	7	22		5463
45	6025	<i>Barbus holubi</i>	10108642	0.13	/PHY//		LAB/F/I	1	60	7	22		5462
45	3462	<i>Cyprinidae</i>	10108642	5	LC50/MOR//		LAB/S/I	1	4.65	6.2	22		12185
45	2353	<i>Cyprinus carpio</i>	7440439	0.45	LC50/MOR//		LAB/S/I	1	55	8	28		2002
45	4278	<i>Ictalurus punctatus</i>	10108642	10.2	LC50/MOR//	7.4 g	LAB/F/I	1	44.4	7.45	17.3		10775
45	4326	<i>Lepomis cyanellus</i>	10108642	7.84	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.3	25		2033
45	2438	<i>Lepomis gibbosus</i>	7440439	2.8	LC50/MOR//		LAB/S/I	1	55	8	28		2002
45	4351	<i>Lepomis macrochirus</i>	10108642	4.56	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.3	25		2033
45	4356	<i>Lepomis macrochirus</i>	10108642	11.2	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	1	35	7.1	21		3780
45	2687	<i>Micropterus salmoides</i>	7440439	0.1	/PHY/INC/		LAB/F/B	1	60	7	22		5463
45	6330	<i>Micropterus salmoides</i>	10108642	0.15	/PHY//		LAB/F/I	1	60	7	22		5462
45	6335	<i>Micropterus salmoides</i>	10108642	1.23	/PHY//	80.4 g, 77.8 cm	LAB/F/U	0.96	54	6.1	25		15362

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
45	2461	<i>Morone americana</i>	7440439	1.6	LC50/MOR//		LAB/S/I	1	55	8	28		2002
45	2466	<i>Morone saxatilis</i>	7440439	1.9	LC50/MOR//		LAB/S/I	1	55	8	28		2002
45	2949	<i>Notemigonus crysoleucas</i>	7440439	1.35	/ENZ//	adult, 70-90 mm	LAB/R/I	0.5	31.5	7.45	24		12205
45	2950	<i>Notemigonus crysoleucas</i>	7440439	1.35	/BCM//	adult, 70-90 mm	LAB/R/I	0.25	31.5	7.45	24		12205
45	2472	<i>Nothobranchius guentheri</i>	7440439	0.73	LC50/MOR/INC/	24 h post hatch, fry	LAB/S/C	1	42	7.785	25		20487
45	2473	<i>Nothobranchius guentheri</i>	7440439	4.2	LC50/MOR/INC/	24 h post hatch, fry	LAB/S/C	1	42	7.785	25		20487
45	5758	<i>Oncorhynchus mykiss</i>	10108642	0.025	/PHY//SIG	56 g	LAB/F/	1	10.1	8	20		17278
45	6454	<i>Oryzias latipes</i>	10108642	0.1	/MOR//	1-100 d	LAB/S/I	1	10.5	6.9	25		12270
45	6461	<i>Oryzias latipes</i>	10108642	5.005	/MOR//	fry, 8 d	LAB/S/S	1	10.5	6.9	25		12151
45	5127	<i>Pimephales promelas</i>	10108642	1.91	LC50/MOR//	0.6 g	LAB/F/I	1	44.4	7.45	17.3		10775
45	5158	<i>Pimephales promelas</i>	10108642	1.09	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.3	25		2033
45	5161	<i>Pimephales promelas</i>	10108642	0.67	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.3	25		2033
45	7160	<i>Pimephales promelas</i>	10124364	0.0045	LC50/MOR/INC/		LAB/F/C	1	10.7	6.29	24	halls lake	45189
45	7181	<i>Pimephales promelas</i>	10124364	0.0065	LC50/MOR/INC/		LAB/F/C	1	10.7	6.29	24	halls lake	45189
45	5245	<i>Poecilia reticulata</i>	10108642	3.37	LC50/MOR//	0.1-0.2 g, 1.9-2.5 cm, 6 mo	LAB/S/I	1	20	7.3	25		2033
45	2770	<i>Tilapia mossambica</i>	7440439	0.1	/PHY/INC/		LAB/F/B	1	60	7	22		5463
45	6642	<i>Tilapia mossambica</i>	10108642	0.14	/PHY//		LAB/F/I	1	60	7	22		5462
46	Vertebrates exposed to cadmium in very hard water at <15degC over 3-30 days exposure												
46	6720	<i>Catostomus commersoni</i>	10124364	0.4228	LC50/MOR//	6 mo	LAB/F/I	4	332	7.6	13.6	mg, ca	12893
46	6721	<i>Catostomus commersoni</i>	10124364	0.826	LC50/MOR//	21 d post-hat	LAB/F/U	4	332	7.6	13.6	mg, ca	12893
46	6722	<i>Catostomus commersoni</i>	10124364	1.051	LC50/MOR//	17 d post-hat	LAB/F/S	4	332	7.6	13.6	mg, ca	12893
46	6723	<i>Catostomus commersoni</i>	10124364	1.273	LC50/MOR/INC/	13 d post-hat	LAB/F/S	4	332	7.6	13.6	mg, ca	12893
46	2494	<i>Oncorhynchus mykiss</i>	7440439	0.0074	LC50/MOR//	45 mm, 36 g	LAB/F/S	4	427	6.78	13.2	conductivity 711 umhos/cm	9536

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	2495	<i>Oncorhynchus mykiss</i>	7440439	0.0059	LC50/MOR//	50 mm	LAB/F/S	4	422	6.96	13.3	conductivity 745 umhos/cm	9536
46	2496	<i>Oncorhynchus mykiss</i>	7440439	0.0042	LC50/MOR//	45 mm, 36 g	LAB/F/S	4	204	6.88	13.2	conductivity 454 umhos/cm	9536
46	2497	<i>Oncorhynchus mykiss</i>	7440439	0.0066	LC50/MOR//	50 mm	LAB/F/S	4	224	7.03	13.4	conductivity 464 umhos/cm	9536
46	2500	<i>Oncorhynchus mykiss</i>	7440439	0.0077	LC50/MOR//	45 mm, 36 g	LAB/F/S	4	427	6.78	13.2	conductivity 711 umhos/cm	9536
46	2501	<i>Oncorhynchus mykiss</i>	7440439	0.0055	LC50/MOR//	50 mm	LAB/F/S	4	422	6.96	13.3	conductivity 745 umhos/cm	9536
46	2502	<i>Oncorhynchus mykiss</i>	7440439	0.0021	LC50/MOR//	45 mm, 36 g	LAB/F/S	4	204	6.88	13.2	conductivity 454 umhos/cm	9536
46	2503	<i>Oncorhynchus mykiss</i>	7440439	0.0057	LC50/MOR//	50 mm	LAB/F/S	4	224	7.03	13.4	conductivity 464 umhos/cm	9536
46	4561	<i>Oncorhynchus mykiss</i>	10108642	2.6	LC50/MOR//	5-15 g	LAB/R/S	4	300	7.4	9.6		11987
46	4562	<i>Oncorhynchus mykiss</i>	10108642	0.55	LC50/MOR//	fry, 10-30 d post-hat, 2-3 cm	LAB/S/S	3.75	296	7	13.5		6074
46	4590	<i>Oncorhynchus mykiss</i>	10108642	0.13	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	24.54	280	7.75	7.1		20727
46	4591	<i>Oncorhynchus mykiss</i>	10108642	0.05	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	24.96	280	7.75	7.1		20727
46	4592	<i>Oncorhynchus mykiss</i>	10108642	0.045	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	24.96	280	7.75	7.1		20727
46	4593	<i>Oncorhynchus mykiss</i>	10108642	0.035	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	25.38	280	7.75	7.1		20727
46	4594	<i>Oncorhynchus mykiss</i>	10108642	0.035	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	25.38	280	7.75	7.1		20727
46	4595	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	25.38	280	7.75	7.1		20727
46	4596	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	25.79	280	7.75	7.1		20727
46	4597	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	25.79	280	7.75	7.1		20727
46	4598	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	26.21	280	7.75	7.1		20727
46	4599	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	26.21	280	7.75	7.1		20727
46	4600	<i>Oncorhynchus mykiss</i>	10108642	0.015	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	26.21	280	7.75	7.1		20727

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	4601	<i>Oncorhynchus mykiss</i>	10108642	0.015	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	26.63	280	7.75	7.1		20727
46	4602	<i>Oncorhynchus mykiss</i>	10108642	0.015	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	26.63	280	7.75	7.1		20727
46	4603	<i>Oncorhynchus mykiss</i>	10108642	0.015	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.04	280	7.75	7.1		20727
46	4604	<i>Oncorhynchus mykiss</i>	10108642	0.015	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.04	280	7.75	7.1		20727
46	4605	<i>Oncorhynchus mykiss</i>	10108642	0.015	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.04	280	7.75	7.1		20727
46	4606	<i>Oncorhynchus mykiss</i>	10108642	0.01	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4607	<i>Oncorhynchus mykiss</i>	10108642	0.01	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4608	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4609	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4610	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.08	280	7.75	7.1		20727
46	4611	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4612	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4613	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4614	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4615	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4616	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4617	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4618	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4619	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4620	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.96	280	7.75	7.1		20727

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	4621	<i>Oncorhynchus mykiss</i>	10108642	0.005	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.96	280	7.75	7.1		20727
46	4636	<i>Oncorhynchus mykiss</i>	10108642	0.3	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	26.63	280	7.75	7.1		20727
46	4637	<i>Oncorhynchus mykiss</i>	10108642	0.26	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	26.83	280	7.75	7.1		20727
46	4638	<i>Oncorhynchus mykiss</i>	10108642	0.21	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.04	280	7.75	7.1		20727
46	4639	<i>Oncorhynchus mykiss</i>	10108642	0.185	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.04	280	7.75	7.1		20727
46	4640	<i>Oncorhynchus mykiss</i>	10108642	0.145	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4641	<i>Oncorhynchus mykiss</i>	10108642	0.145	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4642	<i>Oncorhynchus mykiss</i>	10108642	0.145	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.67	280	7.75	7.1		20727
46	4643	<i>Oncorhynchus mykiss</i>	10108642	0.145	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4644	<i>Oncorhynchus mykiss</i>	10108642	0.12	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.08	280	7.75	7.1		20727
46	4645	<i>Oncorhynchus mykiss</i>	10108642	0.105	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4646	<i>Oncorhynchus mykiss</i>	10108642	0.105	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4647	<i>Oncorhynchus mykiss</i>	10108642	0.105	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.5	280	7.75	7.1		20727
46	4648	<i>Oncorhynchus mykiss</i>	10108642	0.105	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4649	<i>Oncorhynchus mykiss</i>	10108642	0.105	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4650	<i>Oncorhynchus mykiss</i>	10108642	0.105	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4651	<i>Oncorhynchus mykiss</i>	10108642	0.095	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4652	<i>Oncorhynchus mykiss</i>	10108642	0.085	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.33	280	7.75	7.1		20727
46	4653	<i>Oncorhynchus mykiss</i>	10108642	0.08	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4654	<i>Oncorhynchus mykiss</i>	10108642	0.08	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.75	280	7.75	7.1		20727

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	4655	<i>Oncorhynchus mykiss</i>	10108642	0.07	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.96	280	7.75	7.1		20727
46	4670	<i>Oncorhynchus mykiss</i>	10108642	0.3	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.04	280	7.75	7.1		20727
46	4671	<i>Oncorhynchus mykiss</i>	10108642	0.215	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4672	<i>Oncorhynchus mykiss</i>	10108642	0.215	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4673	<i>Oncorhynchus mykiss</i>	10108642	0.215	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.67	280	7.75	7.1		20727
46	4674	<i>Oncorhynchus mykiss</i>	10108642	0.215	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4675	<i>Oncorhynchus mykiss</i>	10108642	0.215	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4676	<i>Oncorhynchus mykiss</i>	10108642	0.13	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4677	<i>Oncorhynchus mykiss</i>	10108642	0.13	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4678	<i>Oncorhynchus mykiss</i>	10108642	0.13	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.5	280	7.75	7.1		20727
46	4679	<i>Oncorhynchus mykiss</i>	10108642	0.13	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4680	<i>Oncorhynchus mykiss</i>	10108642	0.13	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4681	<i>Oncorhynchus mykiss</i>	10108642	0.13	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4682	<i>Oncorhynchus mykiss</i>	10108642	0.105	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4683	<i>Oncorhynchus mykiss</i>	10108642	0.095	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.33	280	7.75	7.1		20727
46	4684	<i>Oncorhynchus mykiss</i>	10108642	0.095	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4685	<i>Oncorhynchus mykiss</i>	10108642	0.095	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.75	280	7.75	7.1		20727
46	4686	<i>Oncorhynchus mykiss</i>	10108642	0.085	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.96	280	7.75	7.1		20727
46	4701	<i>Oncorhynchus mykiss</i>	10108642	0.3	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.96	280	7.75	7.1		20727
46	4702	<i>Oncorhynchus mykiss</i>	10108642	0.24	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.96	280	7.75	7.1		20727

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	4717	<i>Oncorhynchus mykiss</i>	10108642	0.3	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4718	<i>Oncorhynchus mykiss</i>	10108642	0.265	LC50/MOR/INC/	adult, 26.4 g	LAB/F/C	29.96	280	7.75	7.1		20727
46	4733	<i>Oncorhynchus mykiss</i>	10108642	0.3	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.13	280	7.75	7.1		20727
46	4734	<i>Oncorhynchus mykiss</i>	10108642	0.175	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.54	280	7.75	7.1		20727
46	4735	<i>Oncorhynchus mykiss</i>	10108642	0.17	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.54	280	7.75	7.1		20727
46	4736	<i>Oncorhynchus mykiss</i>	10108642	0.125	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.75	280	7.75	7.1		20727
46	4737	<i>Oncorhynchus mykiss</i>	10108642	0.125	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.96	280	7.75	7.1		20727
46	4738	<i>Oncorhynchus mykiss</i>	10108642	0.095	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.96	280	7.75	7.1		20727
46	4739	<i>Oncorhynchus mykiss</i>	10108642	0.085	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.17	280	7.75	7.1		20727
46	4740	<i>Oncorhynchus mykiss</i>	10108642	0.085	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.38	280	7.75	7.1		20727
46	4741	<i>Oncorhynchus mykiss</i>	10108642	0.06	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.38	280	7.75	7.1		20727
46	4742	<i>Oncorhynchus mykiss</i>	10108642	0.055	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.79	280	7.75	7.1		20727
46	4743	<i>Oncorhynchus mykiss</i>	10108642	0.055	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.79	280	7.75	7.1		20727
46	4744	<i>Oncorhynchus mykiss</i>	10108642	0.045	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.21	280	7.75	7.1		20727
46	4745	<i>Oncorhynchus mykiss</i>	10108642	0.045	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.21	280	7.75	7.1		20727
46	4746	<i>Oncorhynchus mykiss</i>	10108642	0.04	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.21	280	7.75	7.1		20727
46	4747	<i>Oncorhynchus mykiss</i>	10108642	0.04	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.63	280	7.75	7.1		20727
46	4748	<i>Oncorhynchus mykiss</i>	10108642	0.04	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.63	280	7.75	7.1		20727
46	4749	<i>Oncorhynchus mykiss</i>	10108642	0.035	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.04	280	7.75	7.1		20727
46	4750	<i>Oncorhynchus mykiss</i>	10108642	0.035	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.04	280	7.75	7.1		20727

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/ Trend/Significant)*	Test Organism	Design (Location/E xposure/Co ntrol Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	4751	<i>Oncorhynchus mykiss</i>	10108642	0.03	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.25	280	7.75	7.1		20727
46	4752	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4753	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4754	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4755	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4756	<i>Oncorhynchus mykiss</i>	10108642	0.02	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.08	280	7.75	7.1		20727
46	4757	<i>Oncorhynchus mykiss</i>	10108642	0.02	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4758	<i>Oncorhynchus mykiss</i>	10108642	0.02	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4759	<i>Oncorhynchus mykiss</i>	10108642	0.02	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4760	<i>Oncorhynchus mykiss</i>	10108642	0.02	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4761	<i>Oncorhynchus mykiss</i>	10108642	0.02	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.92	280	7.75	7.1		20727
46	4762	<i>Oncorhynchus mykiss</i>	10108642	0.02	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4763	<i>Oncorhynchus mykiss</i>	10108642	0.02	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4764	<i>Oncorhynchus mykiss</i>	10108642	0.02	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4765	<i>Oncorhynchus mykiss</i>	10108642	0.02	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4766	<i>Oncorhynchus mykiss</i>	10108642	0.02	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.75	280	7.75	7.1		20727
46	4782	<i>Oncorhynchus mykiss</i>	10108642	0.285	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.75	280	7.75	7.1		20727
46	4783	<i>Oncorhynchus mykiss</i>	10108642	0.285	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.96	280	7.75	7.1		20727
46	4784	<i>Oncorhynchus mykiss</i>	10108642	0.215	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.96	280	7.75	7.1		20727
46	4785	<i>Oncorhynchus mykiss</i>	10108642	0.17	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.17	280	7.75	7.1		20727

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/ Trend/Significant)*	Test Organism	Design (Location/E xposure/Co ntrol Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	4786	<i>Oncorhynchus mykiss</i>	10108642	0.14	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.38	280	7.75	7.1		20727
46	4787	<i>Oncorhynchus mykiss</i>	10108642	0.135	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.38	280	7.75	7.1		20727
46	4788	<i>Oncorhynchus mykiss</i>	10108642	0.13	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.79	280	7.75	7.1		20727
46	4789	<i>Oncorhynchus mykiss</i>	10108642	0.11	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.79	280	7.75	7.1		20727
46	4790	<i>Oncorhynchus mykiss</i>	10108642	0.09	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26	280	7.75	7.1		20727
46	4791	<i>Oncorhynchus mykiss</i>	10108642	0.075	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.21	280	7.75	7.1		20727
46	4792	<i>Oncorhynchus mykiss</i>	10108642	0.075	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.21	280	7.75	7.1		20727
46	4793	<i>Oncorhynchus mykiss</i>	10108642	0.07	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.63	280	7.75	7.1		20727
46	4794	<i>Oncorhynchus mykiss</i>	10108642	0.06	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.63	280	7.75	7.1		20727
46	4795	<i>Oncorhynchus mykiss</i>	10108642	0.065	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.04	280	7.75	7.1		20727
46	4796	<i>Oncorhynchus mykiss</i>	10108642	0.06	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.04	280	7.75	7.1		20727
46	4797	<i>Oncorhynchus mykiss</i>	10108642	0.05	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.25	280	7.75	7.1		20727
46	4798	<i>Oncorhynchus mykiss</i>	10108642	0.045	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4799	<i>Oncorhynchus mykiss</i>	10108642	0.045	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4800	<i>Oncorhynchus mykiss</i>	10108642	0.045	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4801	<i>Oncorhynchus mykiss</i>	10108642	0.035	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4802	<i>Oncorhynchus mykiss</i>	10108642	0.035	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4803	<i>Oncorhynchus mykiss</i>	10108642	0.03	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4804	<i>Oncorhynchus mykiss</i>	10108642	0.03	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4805	<i>Oncorhynchus mykiss</i>	10108642	0.03	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.71	280	7.75	7.1		20727

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	4806	<i>Oncorhynchus mykiss</i>	10108642	0.03	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4807	<i>Oncorhynchus mykiss</i>	10108642	0.03	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.92	280	7.75	7.1		20727
46	4808	<i>Oncorhynchus mykiss</i>	10108642	0.03	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4809	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4810	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4811	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4812	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.96	280	7.75	7.1		20727
46	4828	<i>Oncorhynchus mykiss</i>	10108642	0.225	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.54	280	7.75	7.1		20727
46	4829	<i>Oncorhynchus mykiss</i>	10108642	0.215	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.75	280	7.75	7.1		20727
46	4830	<i>Oncorhynchus mykiss</i>	10108642	0.215	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.96	280	7.75	7.1		20727
46	4831	<i>Oncorhynchus mykiss</i>	10108642	0.185	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	24.96	280	7.75	7.1		20727
46	4832	<i>Oncorhynchus mykiss</i>	10108642	0.125	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.17	280	7.75	7.1		20727
46	4833	<i>Oncorhynchus mykiss</i>	10108642	0.095	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.38	280	7.75	7.1		20727
46	4834	<i>Oncorhynchus mykiss</i>	10108642	0.085	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.38	280	7.75	7.1		20727
46	4835	<i>Oncorhynchus mykiss</i>	10108642	0.08	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.79	280	7.75	7.1		20727
46	4836	<i>Oncorhynchus mykiss</i>	10108642	0.07	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	25.79	280	7.75	7.1		20727
46	4837	<i>Oncorhynchus mykiss</i>	10108642	0.065	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26	280	7.75	7.1		20727
46	4838	<i>Oncorhynchus mykiss</i>	10108642	0.055	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.21	280	7.75	7.1		20727
46	4839	<i>Oncorhynchus mykiss</i>	10108642	0.055	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.21	280	7.75	7.1		20727
46	4840	<i>Oncorhynchus mykiss</i>	10108642	0.05	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.63	280	7.75	7.1		20727

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	4841	<i>Oncorhynchus mykiss</i>	10108642	0.045	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	26.63	280	7.75	7.1		20727
46	4842	<i>Oncorhynchus mykiss</i>	10108642	0.04	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.04	280	7.75	7.1		20727
46	4843	<i>Oncorhynchus mykiss</i>	10108642	0.035	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.04	280	7.75	7.1		20727
46	4844	<i>Oncorhynchus mykiss</i>	10108642	0.035	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.25	280	7.75	7.1		20727
46	4845	<i>Oncorhynchus mykiss</i>	10108642	0.035	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4846	<i>Oncorhynchus mykiss</i>	10108642	0.035	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.46	280	7.75	7.1		20727
46	4847	<i>Oncorhynchus mykiss</i>	10108642	0.035	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4848	<i>Oncorhynchus mykiss</i>	10108642	0.03	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4849	<i>Oncorhynchus mykiss</i>	10108642	0.03	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.08	280	7.75	7.1		20727
46	4850	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4851	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4852	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4853	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4854	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.92	280	7.75	7.1		20727
46	4855	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4856	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4857	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4858	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4859	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.96	280	7.75	7.1		20727
46	4860	<i>Oncorhynchus mykiss</i>	10108642	0.025	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.96	280	7.75	7.1		20727

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	4875	<i>Oncorhynchus mykiss</i>	10108642	0.205	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.67	280	7.75	7.1		20727
46	4876	<i>Oncorhynchus mykiss</i>	10108642	0.155	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.67	280	7.75	7.1		20727
46	4877	<i>Oncorhynchus mykiss</i>	10108642	0.145	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	27.88	280	7.75	7.1		20727
46	4878	<i>Oncorhynchus mykiss</i>	10108642	0.145	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4879	<i>Oncorhynchus mykiss</i>	10108642	0.155	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.29	280	7.75	7.1		20727
46	4880	<i>Oncorhynchus mykiss</i>	10108642	0.15	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.5	280	7.75	7.1		20727
46	4881	<i>Oncorhynchus mykiss</i>	10108642	0.15	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4882	<i>Oncorhynchus mykiss</i>	10108642	0.15	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	28.71	280	7.75	7.1		20727
46	4883	<i>Oncorhynchus mykiss</i>	10108642	0.15	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4884	<i>Oncorhynchus mykiss</i>	10108642	0.145	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4885	<i>Oncorhynchus mykiss</i>	10108642	0.145	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4886	<i>Oncorhynchus mykiss</i>	10108642	0.115	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4887	<i>Oncorhynchus mykiss</i>	10108642	0.1	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.75	280	7.75	7.1		20727
46	4903	<i>Oncorhynchus mykiss</i>	10108642	0.3	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.13	280	7.75	7.1		20727
46	4904	<i>Oncorhynchus mykiss</i>	10108642	0.245	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.33	280	7.75	7.1		20727
46	4905	<i>Oncorhynchus mykiss</i>	10108642	0.245	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.54	280	7.75	7.1		20727
46	4906	<i>Oncorhynchus mykiss</i>	10108642	0.215	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.75	280	7.75	7.1		20727
46	4907	<i>Oncorhynchus mykiss</i>	10108642	0.145	LC50/MOR/INC/	juvenile, 0.193 g	LAB/F/C	29.96	280	7.75	7.1		20727
46	4932	<i>Oncorhynchus mykiss</i>	10108642	0.016	LC50/MOR//	1.0 g, 32 mm	LAB/S/I	4	200	7.6	12		3780
46	4936	<i>Oncorhynchus mykiss</i>	10108642	0.0194	LETC/MOR/INC/	adult, 26.4 g	LAB/F/C	5	280	7.75	7.1		20727

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	4937	<i>Oncorhynchus mykiss</i>	10108642	0.307	LETC/MOR/INC/	juvenile, 0.193 g	LAB/F/C	5	280	7.75	7.1		20727
46	4938	<i>Oncorhynchus mykiss</i>	10108642	0.0061	LETC/MOR/INC/	adult, 26.4 g	LAB/F/C	7.79	280	7.75	7.1		20727
46	4939	<i>Oncorhynchus mykiss</i>	10108642	0.031	LETC/MOR/INC/	adult, 26.4 g	LAB/F/C	13.33	280	7.75	7.1		20727
46	4940	<i>Oncorhynchus mykiss</i>	10108642	0.031	LETC/MOR/INC/	adult, 26.4 g	LAB/F/C	13.33	280	7.75	7.1		20727
46	4941	<i>Oncorhynchus mykiss</i>	10108642	0.0577	LETC/MOR/INC/	adult, 26.4 g	LAB/F/C	9.83	280	7.75	7.1		20727
46	4942	<i>Oncorhynchus mykiss</i>	10108642	0.1227	LETC/MOR/INC/	adult, 26.4 g	LAB/F/C	11.08	280	7.75	7.1		20727
46	4943	<i>Oncorhynchus mykiss</i>	10108642	0.02	LETC/MOR/INC/	juvenile, 0.193 g	LAB/F/C	6.79	280	7.75	7.1		20727
46	4944	<i>Oncorhynchus mykiss</i>	10108642	0.0383	LETC/MOR/INC/	juvenile, 0.193 g	LAB/F/C	6.5	280	7.75	7.1		20727
46	4945	<i>Oncorhynchus mykiss</i>	10108642	0.0355	LETC/MOR/INC/	juvenile, 0.193 g	LAB/F/C	5.92	280	7.75	7.1		20727
46	4946	<i>Oncorhynchus mykiss</i>	10108642	0.0308	LETC/MOR/INC/	juvenile, 0.193 g	LAB/F/C	12.17	280	7.75	7.1		20727
46	4947	<i>Oncorhynchus mykiss</i>	10108642	0.04	LETC/MOR/INC/	juvenile, 0.193 g	LAB/F/C	13.33	280	7.75	7.1		20727
46	4957	<i>Oncorhynchus mykiss</i>	10108642	0.012	NOEC/MOR//	1.0 g, 32 mm	LAB/S/I	4	200	7.6	12		3780
46	5798	<i>Oncorhynchus mykiss</i>	10108642	0.0055	/MOR/INC/	adult, 26.4 g	LAB/F/C	21	280	7.75	7.1		20727
46	5799	<i>Oncorhynchus mykiss</i>	10108642	0.0055	/MOR/INC/	juvenile, 0.193 g	LAB/F/C	21	280	7.75	7.1		20727
46	7061	<i>Oncorhynchus mykiss</i>	10124364	0.6	LC50/MOR/INC/	1-2 yr	LAB//	5	320	7.7	10		14394
46	7062	<i>Oncorhynchus mykiss</i>	10124364	0.45	LC50/MOR/INC/	1-2 yr	LAB//	7	320	7.7	10		14394
46	7466	<i>Oncorhynchus mykiss</i>	10124364	0.0055	/MOR/CHG/	egg	LAB/S/C	28	250	7.55	12		4981
46	4973	<i>Oncorhynchus tshawytscha</i>	10108642	0.026	LC50/MOR//	fry, 1.03 g	LAB/S/I	4	211	7.65	12		3526
46	4975	<i>Oncorhynchus tshawytscha</i>	10108642	0.057	LC50/MOR//	fry, 1.98 g	LAB/S/I	4	343	7.55	12		3526
46	7297	<i>Salvelinus fontinalis</i>	10124364	0.026	LC50/MOR//	3 mo, 0.21 g	LAB/S/I	4	332	7.5	12	reconstituted water	2032

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
46	7299	<i>Salvelinus fontinalis</i>	10124364	0.0038	LC50/MOR//	3 mo, 0.21 g	LAB/S/I	4	354	7.8	12	reconstituted water	2032
46	7301	<i>Salvelinus fontinalis</i>	10124364	0.029	LC50/MOR//	3 mo, 0.21 g	LAB/S/I	4	344	7.15	12	reconstituted water	2032
46	7305	<i>Salvelinus fontinalis</i>	10124364	0.0044	LC50/MOR//	3 mo, 0.21 g	LAB/S/I	4	329	7.15	12	reconstituted water	2032
47	Vertebrates exposed to cadmium in very hard water at >15degC over 3-30 days exposure												
47	3238	<i>Carassius auratus</i>	10108642	0.17	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
47	5550	<i>Carassius auratus</i>	10108642	10	/ENZ/CHG/	8 cm, 9 g	LAB/C	23.5	369	7.5	16		16849
47	5551	<i>Carassius auratus</i>	10108642	9.847	NR-ZERO/MOR/NEF/	6.0 g	LAB/S/C	7	369	7.8	16		16426
47	6057	<i>Carassius auratus</i>	10108642	9.847	/PHY/CHG/	6.0 g	LAB/S/C	3.5	369	7.8	16		16426
47	6059	<i>Carassius auratus</i>	10108642	9.847	/HIS/CHG/	6.0 g	LAB/S/C	3.5	369	7.8	16		16426
47	6060	<i>Carassius auratus</i>	10108642	9.847	/ENZ/DEC/	6.0 g	LAB/S/C	3.5	369	7.8	16		16426
47	6065	<i>Catla catla</i>	10108642	3.25	/BCM/CHG/	5.36 g	LAB/R/C	20	685	7.1	28		17803
47	3426	<i>Clarias gariepinus</i>	10108642	12	LC50/MOR/INC/	14.0 cm, 17.5 g, juvenile	LAB/R/C	4	230.45	7.6	22.1		18022
47	5593	<i>Clarias gariepinus</i>	10108642	1.5	/BEH/CHG/MULT	14.0 cm, 17.5 g, juvenile	LAB/R/C	4	230.45	7.6	22.1		18022
47	5594	<i>Clarias gariepinus</i>	10108642	1.5	/BCM/DEC/SIG	14.0 cm, 17.5 g, juvenile	LAB/R/C	7	230.45	7.6	22.1		18022
47	5595	<i>Clarias gariepinus</i>	10108642	1.5	/BCM/DEC/SIG	14.0 cm, 17.5 g, juvenile	LAB/R/C	7	230.45	7.6	22.1		18022
47	5596	<i>Clarias gariepinus</i>	10108642	1.5	/PHY/INC/SIG	14.0 cm, 17.5 g, juvenile	LAB/R/C	4	230.45	7.6	22.1		18022
47	5597	<i>Clarias gariepinus</i>	10108642	1.5	/BEH/INC/SIG	14.0 cm, 17.5 g, juvenile	LAB/R/C	4	230.45	7.6	22.1		18022
47	3488	<i>Cyprinus carpio</i>	10108642	6.12	LC50/MOR//	10-12 cm, 55.60 g	LAB/R/I	4	232.58	7.6	22		4234
47	5609	<i>Cyprinus carpio</i>	10108642	0.25	/BCM/INC/SIG	10-12 cm, 55.60 g	LAB/R/S	10	232.58	7.6	22		4234
47	5610	<i>Cyprinus carpio</i>	10108642	0.25	/BCM/DEC/SIG	10-12 cm, 55.60 g	LAB/R/S	10	232.58	7.6	22		4234
47	5611	<i>Cyprinus carpio</i>	10108642	0.25	/BEH/INC/SIG	10-12 cm, 55.60 g	LAB/R/S	4	232.58	7.6	22		4234
47	5612	<i>Cyprinus carpio</i>	10108642	1.5	/BEH/INC/NOSIG	10-12 cm, 55.60 g	LAB/R/S	4	232.58	7.6	22		4234
47	7562	<i>Cyprinus carpio</i>	10325947	220.77	LC50/MOR/INC/	fry, 3.34 cm, 0.33 g	LAB/S/	4	185	7.2	25		19384
47	7563	<i>Cyprinus carpio</i>	10325947	226.03	LC50/MOR/INC/	fry, 3.34 cm, 0.33 g	LAB/S/	4	185	7.2	25	30 mg/l poultry litter	19384
47	7564	<i>Cyprinus carpio</i>	10325947	234.16	LC50/MOR/INC/	fry, 3.34 cm, 0.33 g	LAB/S/	4	185	7.2	25	65 mg/l poultry litter	19384
47	7565	<i>Cyprinus carpio</i>	10325947	123.13	LC50/MOR/INC/	fry, 3.34 cm, 0.33 g	LAB/S/	4	185	7.2	25	125 mg/l poultry litter	19384
47	7566	<i>Cyprinus carpio</i>	10325947	72.68	LC50/MOR/INC/	fry, 3.34 cm, 0.33 g	LAB/S/	4	185	7.2	25	250 mg/l poultry litter	19384

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
47	7567	<i>Cyprinus carpio</i>	10325947	72.518	LC50/MOR/INC/	fry, 3.34 cm, 0.33 g	LAB/S/	4	185	7.2	25	250 mg/l poultry litter	19384
47	7568	<i>Cyprinus carpio</i>	10325947	74.157	LC50/MOR/INC/	fry, 3.34 cm, 0.33 g	LAB/S/	4	185	7.2	25	250 mg/l poultry litter	19384
47	7569	<i>Cyprinus carpio</i>	10325947	70.169	LC50/MOR/INC/	fry, 3.34 cm, 0.33 g	LAB/S/	4	185	7.2	25	250 mg/l poultry litter	19384
47	4201	<i>Gastrophryne carolinensis</i>	10108642	0.04	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
47	4202	<i>Gila elegans</i>	10108642	0.148	LC50/MOR/INC/	larva, 11 d, 10 mm, 5 mg	LAB/S/C	4	199	8	25		18325
47	4203	<i>Gila elegans</i>	10108642	0.168	LC50/MOR/INC/	juvenile, 100 d, 39 mm, 378 mg	LAB/S/C	4	199	8	25		18325
47	2915	<i>Heteropneustes fossilis</i>	7440439	0.2	/BCM//	20 g	LAB/S/S	17.5	206.9	7.2	20	bacteria infected	5078
47	4216	<i>Heteropneustes fossilis</i>	10108642	19.7	LC50/MOR/INC/		LAB/R/	4	250	7.45	24.5		16939
47	4325	<i>Lepomis cyanellus</i>	10108642	20.5	LC50/ITX//	7.20-10.81 g	LAB/F/I	16	333.5	7.845	20.05		2040
47	4331	<i>Lepomis cyanellus</i>	10108642	66	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	360	7.3	25		2033
47	5708	<i>Lepomis cyanellus</i>	10108642	27.67	/FDB//MULT	7.20-10.81 g	LAB/F/S	16	333.5	7.845	20.05		2040
47	5709	<i>Lepomis cyanellus</i>	10108642	1.265	/GRO//SIG	5.67-7.47 g	LAB/F/S	20	331.5	7.865	18.55		2040
47	5710	<i>Lepomis cyanellus</i>	10108642	1.265	/FDB//MULT	5.67-7.47 g	LAB/F/S	20	331.5	7.865	18.55		2040
47	5711	<i>Lepomis cyanellus</i>	10108642	0.965	/FDB//MULT	5.17-9.10 g	LAB/F/S	11	328.5	7.99	23.9		2040
47	5712	<i>Lepomis cyanellus</i>	10108642	0.965	/GEN//MULT	5.17-9.10 g	LAB/F/S	11	328.5	7.99	23.9		2040
47	6291	<i>Lepomis cyanellus</i>	10108642	27.67	/GRO//	7.20-10.81 g	LAB/F/S	16	333.5	7.845	20.05		2040
47	6293	<i>Lepomis cyanellus</i>	10108642	1.265	/GEN//	5.67-7.47 g	LAB/F/S	4	331.5	7.865	18.55		2040
47	6295	<i>Lepomis cyanellus</i>	10108642	0.965	/GRO//	5.17-9.10 g	LAB/F/S	11	328.5	7.99	23.9		2040
47	4361	<i>Lepomis macrochirus</i>	10108642	48.2	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	4	200	7.6	21		3780
47	4369	<i>Lepomis macrochirus</i>	10108642	32	NOEC/MOR//	1.1 g, 37 mm	LAB/S/I	4	200	7.6	21		3780
47	6305	<i>Lepomis macrochirus</i>	10108642	13.3	/ENZ//	adult, 64.0 g	LAB/F/S	22	363	7.6	21	ca, na, k, cl, so4, cl2	11457
47	6306	<i>Lepomis macrochirus</i>	10108642	16.4	/ENZ//	adult, 64.0 g	LAB/F/S	10	363	7.6	21	ca, na, k, cl, so4, cl2	11457
47	6307	<i>Lepomis macrochirus</i>	10108642	12.1	/ENZ//	adult, 64.0 g	LAB/F/S	15	363	7.6	21	ca, na, k, cl, so4, cl2	11457
47	6311	<i>Lepomis macrochirus</i>	10108642	12.5	/ENZ//	adult	LAB/F/S	16	363	7.6	21	ion conc rptd	11745

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
47	7023	<i>Lepomis macrochirus</i>	10124364	21.1	LC50/MOR//	10.3(9.8-10.8) cm	LAB/F/S	4	207	7.7	22.5		5071
47	4511	<i>Notopterus notopterus</i>	10108642	75.54	LC50/MOR//	24 cm, 155 g	LAB/S/I	4	218.5	6.55	20		3440
47	7077	<i>Oncorhynchus mykiss</i>	10124364	0.02	NOEC/MOR//	136 mm	LAB/F/S	30	328.6	7.99	16.2	conductivity 1019.4(1000-1050) umhoscm	10208
47	5095	<i>Pimephales promelas</i>	10108642	3.06	LC50/MOR//	adult, 40 mm	LAB/S/I	4	250	7.5	21.5	conductivity 500-553 umhos	10551
47	5097	<i>Pimephales promelas</i>	10108642	7.16	LC50/MOR//	adult, 40 mm	LAB/S/I	4	250	7.5	21.5	conductivity 500-553 umhoscm	10551
47	5147	<i>Pimephales promelas</i>	10108642	12.58	LC50/MOR/INC/	40 mm	LAB/S/C	4	200	7.4	22	newton hatchery fish	10237
47	5149	<i>Pimephales promelas</i>	10108642	9.55	LC50/MOR/INC/	40 mm	LAB/S/C	4	200	7.4	22	flyash pond fish	10237
47	5156	<i>Pimephales promelas</i>	10108642	72.6	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	360	7.2	25		2033
47	5157	<i>Pimephales promelas</i>	10108642	73.5	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	360	7.2	25		2033
47	7663	<i>Pimephales promelas</i>	10325947	0.073	LC50/MOR//	<=24 h	LAB/I	4	290	6.12	25		7289
47	7664	<i>Pimephales promelas</i>	10325947	0.06	LC50/MOR//	<=24 h	LAB/I	4	290	7.145	25		7289
47	5281	<i>Ptychocheilus lucius</i>	10108642	0.078	LC50/MOR/INC/	larva, 8 d, 9 mm, 4 mg	LAB/S/C	4	199	8	25		18325
47	5282	<i>Ptychocheilus lucius</i>	10108642	0.108	LC50/MOR/INC/	juvenile, 155 d, 43 mm, 499 mg	LAB/S/C	4	199	8	25		18325
47	5292	<i>Rana ridibunda</i>	10108642	71.8	LC50/MOR/INC/	tadpole	LAB/R/C	4	288	7.4	22.5		19890
47	5889	<i>Rana ridibunda</i>	10108642	56.25	/GRO/DEC/MULT	tadpole	LAB/R/C	15	288	7.4	22.5		19890
47	5890	<i>Rana ridibunda</i>	10108642	56.25	/BCM/INC/ASIG	tadpole	LAB/R/C	15	288	7.4	22.5		19890
47	5892	<i>Rana ridibunda</i>	10108642	56.25	/MOR/INC/	tadpole	LAB/R/C	22.5	288	7.4	22.5		19890
47	5893	<i>Rana ridibunda</i>	10108642	200	NR-LETH/MOR/INC/	tadpole	LAB/R/C	4	288	7.4	22.5		19890
47	5894	<i>Rana ridibunda</i>	10108642	12.5	NR-ZERO/MOR/INC/	tadpole	LAB/R/C	4	288	7.4	22.5		19890
47	2113	<i>Tilapia mossambica</i>	543908	50	/BCM/DEC/MULT	104.17 g	LAB/C	4	220	7.7	26		12566
47	2114	<i>Tilapia mossambica</i>	543908	50	/BCM/INC/NOSIG	104.17 g	LAB/C	4	220	7.7	26		12566
47	2115	<i>Tilapia mossambica</i>	543908	50	/BCM/DEC/NOSIG	104.17 g	LAB/C	4	220	7.7	26		12566
47	5506	<i>Xenopus laevis</i>	10108642	90	LC50/MOR//	tadpole, 2-5 cm, stage 54-58	LAB/S/S	3.75	296	7	21.5		6074
47	5516	<i>Xyrauchen texanus</i>	10108642	0.139	LC50/MOR/INC/	larva, 6 d, 11 mm, 3 mg	LAB/S/C	4	199	8	25		18325

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
47	5517	<i>Xyrauchen texanus</i>	10108642	0.16	LC50/MOR/INC/	juvenile, 109 d, 34 mm, 394 mg	LAB/S/C	4	199	8	25		18325
48	Vertebrates exposed to cadmium in very hard water at >15degC over 1-3 days exposure												
48	4214	<i>Heteropneustes fossilis</i>	10108642	30.5	LC50/MOR/INC/		LAB/R/	2	250	7.45	24.5		16939
48	4215	<i>Heteropneustes fossilis</i>	10108642	24.8	LC50/MOR/INC/		LAB/R/	3	250	7.45	24.5		16939
48	4330	<i>Lepomis cyanellus</i>	10108642	71.3	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	360	7.3	25		2033
48	4360	<i>Lepomis macrochirus</i>	10108642	48.2	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	2	200	7.6	21		3780
48	6315	<i>Lepomis macrochirus</i>	10108642	0.05	/PHY//	34.9(22.2-53.3) g	LAB/F/S	3	350	8	15.25		3620
48	2940	<i>Morone saxatilis</i>	7440439	0.1275	/MOR//	larvae, 7 d	LAB/S/S	3	308.45	7.5	17		10625
48	4509	<i>Notopterus notopterus</i>	10108642	57.87	LC50/MOR//	24 cm, 155 g	LAB/S/I	2	218.5	6.55	20		3440
48	4510	<i>Notopterus notopterus</i>	10108642	69.42	LC50/MOR//	24 cm, 155 g	LAB/S/I	3	218.5	6.55	20		3440
48	2481	<i>Oncorhynchus mykiss</i>	7440439	3.698	LC50/MOR//	fry, 3 cm	LAB/S/I	2	320	7.2	15.25		459
48	5154	<i>Pimephales promelas</i>	10108642	72.6	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	360	7.2	25		2033
48	5155	<i>Pimephales promelas</i>	10108642	79.3	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	360	7.2	25		2033
49	Vertebrates exposed to cadmium in very hard water at >15degC over <=1 day exposure												
49	7359	<i>Gnathonemus petersi</i>	10124364	5.5	/HIS/INC/	male, 9-10 cm tl	LAB/F/C	0.25	288	7.1	25		19563
49	4213	<i>Heteropneustes fossilis</i>	10108642	39.8	LC50/MOR/INC/		LAB/R/	1	250	7.45	24.5		16939
49	4329	<i>Lepomis cyanellus</i>	10108642	88.6	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	360	7.3	25		2033
49	4359	<i>Lepomis macrochirus</i>	10108642	76.3	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	1	200	7.6	21		3780
49	4508	<i>Notopterus notopterus</i>	10108642	44.54	LC50/MOR//	24 cm, 155 g	LAB/S/I	1	218.5	6.55	20		3440
49	5146	<i>Pimephales promelas</i>	10108642	9.27	LC50/MOR/INC/	40 mm	LAB/S/C	1	200	7.4	22	newton hatchery fish	10237
49	5148	<i>Pimephales promelas</i>	10108642	7.16	LC50/MOR/INC/	40 mm	LAB/S/C	1	200	7.4	22	flyash pond fish	10237
49	5152	<i>Pimephales promelas</i>	10108642	78.1	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	360	7.2	25		2033

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
49	5153	<i>Pimephales promelas</i>	10108642	79.3	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	360	7.2	25		2033
50	Arthropods exposed to chromium in soft water at >15degC over 3-30 days exposure												
50	10210	<i>Ceriodaphnia reticulata</i>	10588019	0.0445	MATC/REP//	< 24 h	LAB/F/I	14	45	7.35	25		3686
50	8086	<i>Chironomus</i>	7440473	11	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
50	8244	<i>Daphnia magna</i>	7775113	0.0178	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	fed	3690
50	8830	<i>Daphnia magna</i>	7778509	0.0169	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	fed	3690
50	10011	<i>Daphnia magna</i>	7789006	0.0074	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	fed	3690
50	10224	<i>Daphnia magna</i>	10588019	0.0025	MATC/REP//	< 24 h	LAB/F/I	14	45	7.35	25		3686
50	10331	<i>Daphnia magna</i>	12680487	0.0245	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	fed	3690
50	10230	<i>Daphnia pulex</i>	10588019	0.0064	MATC/REP//	< 24 h	LAB/F/I	14	45	7.35	25		3686
50	8109	<i>Gammarus</i>	7440473	3.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
50	10046	<i>Gammarus pseudolimnaeus</i>	7789006	0.101	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	unfed	3690
50	10050	<i>Hyalella azteca</i>	7789006	0.63	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	unfed	3690
50	10264	<i>Simocephalus serrulatus</i>	10588019	0.0212	MATC/REP//	< 24 h	LAB/F/I	14	45	7.35	25		3686
50	10266	<i>Simocephalus vetulus</i>	10588019	0.0064	MATC/REP//	< 24 h	LAB/F/I	14	45	7.35	25		3686
50	8142	<i>Trichoptera</i>	7440473	50	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
51	Arthropods exposed to chromium in soft water at >15degC over 1-3 days exposure												
51	10209	<i>Ceriodaphnia reticulata</i>	10588019	0.0452	LC50/MOR//	< 24 h	LAB/F/I	2	45	7.35	25		3686
51	8094	<i>Daphnia ambigua</i>	7440473	1.7	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
51	8097	<i>Daphnia magna</i>	7440473	5.2	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
51	8242	<i>Daphnia magna</i>	7775113	0.0206	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	unfed	3690
51	8243	<i>Daphnia magna</i>	7775113	0.0211	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	fed	3690
51	8828	<i>Daphnia magna</i>	7778509	0.0199	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	unfed	3690
51	8829	<i>Daphnia magna</i>	7778509	0.0216	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	fed	3690
51	8984	<i>Daphnia magna</i>	7778509	0.3	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
51	8985	<i>Daphnia magna</i>	7778509	0.2	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
51	10009	<i>Daphnia magna</i>	7789006	0.0153	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	unfed	3690
51	10010	<i>Daphnia magna</i>	7789006	0.0192	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	fed	3690
51	10217	<i>Daphnia magna</i>	10588019	0.0242	LC50/MOR//	< 24 h	LAB/F/I	2	45	7.35	25		3686
51	10329	<i>Daphnia magna</i>	12680487	0.0213	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	unfed	3690
51	10330	<i>Daphnia magna</i>	12680487	0.0199	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	fed	3690

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
51	10338	<i>Daphnia magna</i>	13548384	9.32	LC50/MOR//	<1 d	LAB/S/I	2	52	7.9	19.9	water parameters rptd	3621
51	9046	<i>Daphnia pulex</i>	7778509	0.27	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
51	9047	<i>Daphnia pulex</i>	7778509	0.14	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
51	10229	<i>Daphnia pulex</i>	10588019	0.0363	LC50/MOR//	< 24 h	LAB/F/I	2	45	7.35	25		3686
51	9202	<i>Moina australiensis</i>	7778509	0.0202	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
51	9203	<i>Moina australiensis</i>	7778509	0.0247	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
51	9204	<i>Moina australiensis</i>	7778509	0.0218	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
51	9205	<i>Moina australiensis</i>	7778509	0.0346	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
51	9206	<i>Moina australiensis</i>	7778509	0.0386	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
51	9207	<i>Moina australiensis</i>	7778509	0.0352	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
51	9208	<i>Moina australiensis</i>	7778509	0.0276	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
51	9209	<i>Moina australiensis</i>	7778509	0.0239	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
51	9210	<i>Moina australiensis</i>	7778509	0.0246	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
51	10263	<i>Simocephalus serrulatus</i>	10588019	0.0409	LC50/MOR//	< 24 h	LAB/F/I	2	45	7.35	25		3686
51	10265	<i>Simocephalus vetulus</i>	10588019	0.0323	LC50/MOR//	< 24 h	LAB/F/I	2	45	7.35	25		3686
51	9654	<i>Tanytarsus dissimilis</i>	7778509	57.3	LC50/MOR//	3rd or 4th instar, 2.0-3.5 mm	LAB/S/I	2	47	7.5	20.4	acidity	10579
52	Arthropods exposed to chromium in soft water at >15degC over <=1 day exposure												
52	8085	<i>Chironomus</i>	7440473	16.5	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
52	9746	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/CHG/ANOSIG		LAB/S/C	1	50	7.68	20		48216
52	9747	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/INC/ASIG		LAB/S/C	1	50	7.68	20		48216
52	9748	<i>Chironomus riparius</i>	7778509	0.5	/ENZ/CHG/SIG		LAB/S/C	1	50	7.68	20		48216
52	9749	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/INC/ASIG		LAB/S/C	1	50	7.68	20		48216
52	9750	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/DEC/ANOSIG		LAB/S/C	1	50	7.68	20		48216
52	9751	<i>Chironomus riparius</i>	7778509	5	/ENZ/DEC/SIG		LAB/S/C	1	50	7.68	20		48216
52	9752	<i>Chironomus riparius</i>	7778509	0.5	/ENZ/DEC/NOSIG		LAB/S/C	1	50	7.68	20		48216
52	9753	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/CHG/ANOSIG		LAB/S/C	1	50	7.68	20		48216
52	9754	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/DEC/ANOSIG		LAB/S/C	1	50	7.68	20		48216
52	9755	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/CHG/ANOSIG		LAB/S/C	1	50	7.68	20		48216
52	9756	<i>Chironomus riparius</i>	7778509	2.75	/BCM/DEC/ANOSIG		LAB/S/C	1	50	7.68	20		48216
52	9757	<i>Chironomus riparius</i>	7778509	5	/ENZ/DEC/NOSIG		LAB/S/C	1	50	7.68	20		48216
52	8234	<i>Daphnia magna</i>	7775113	0.027	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
52	8235	<i>Daphnia magna</i>	7775113	0.024	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
52	8236	<i>Daphnia magna</i>	7775113	0.035	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	8237	<i>Daphnia magna</i>	7775113	0.035	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
52	8238	<i>Daphnia magna</i>	7775113	0.036	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	8239	<i>Daphnia magna</i>	7775113	0.045	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	8820	<i>Daphnia magna</i>	7778509	0.031	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
52	8821	<i>Daphnia magna</i>	7778509	0.037	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
52	8822	<i>Daphnia magna</i>	7778509	0.027	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	8823	<i>Daphnia magna</i>	7778509	0.035	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	8824	<i>Daphnia magna</i>	7778509	0.048	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	8825	<i>Daphnia magna</i>	7778509	0.036	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	8979	<i>Daphnia magna</i>	7778509	0.4	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
52	8980	<i>Daphnia magna</i>	7778509	0.27	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
52	10003	<i>Daphnia magna</i>	7789006	0.027	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
52	10004	<i>Daphnia magna</i>	7789006	0.027	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
52	10005	<i>Daphnia magna</i>	7789006	0.032	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	10006	<i>Daphnia magna</i>	7789006	0.033	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	10323	<i>Daphnia magna</i>	12680487	0.044	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
52	10324	<i>Daphnia magna</i>	12680487	0.033	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	10325	<i>Daphnia magna</i>	12680487	0.031	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	10326	<i>Daphnia magna</i>	12680487	0.057	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
52	9051	<i>Daphnia pulex</i>	7778509	0.3	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
52	9052	<i>Daphnia pulex</i>	7778509	0.2	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
52	10033	<i>Daphnia pulex</i>	7789006	0.1	LC50/MOR/INC/	>=6 d	LAB/S/C	1	46	7.5	21	mixture, oil, effluent, species comparison age, temps	3402
52	8108	<i>Gammarus</i>	7440473	6.4	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
52	9607	<i>Streptocephalus proboscideus</i>	7778509	0.28	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	20		13328
52	9608	<i>Streptocephalus proboscideus</i>	7778509	0.48	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	20		13328
52	9612	<i>Streptocephalus proboscideus</i>	7778509	0.12	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	25		13328
52	9613	<i>Streptocephalus proboscideus</i>	7778509	0.34	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	25		13328
52	9617	<i>Streptocephalus proboscideus</i>	7778509	0.061	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	30		13328
52	9618	<i>Streptocephalus proboscideus</i>	7778509	0.22	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	30		13328
52	9653	<i>Tanytarsus dissimilis</i>	7778509	206	LC50/MOR//	3rd or 4th instar, 2.0-3.5 mm	LAB/S/I	1	47	7.5	20.4	acidity	10579

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
52	8141	<i>Trichoptera</i>	7440473	5.8	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
53	Arthropods exposed to chromium in very hard water at >15degC over <=1 day exposure												
53	8584	<i>Ceriodaphnia dubia</i>	7778509	53	LC50/ITX//	neonate, <24 h	LAB/S/I	1	250	7.9	20		8764
53	8627	<i>Ceriodaphnia pulchella</i>	7778509	196	LC50/ITX//	neonate, <24 h	LAB/S/I	1	250	7.9	20		8764
53	8806	<i>Daphnia carinata</i>	7778509	423	LC50/ITX//	neonate, <24 h	LAB/S/I	1	250	7.9	20		8764
53	8030	<i>Daphnia magna</i>	1333820	1.87	LC50/MOR//		LAB//I	1	190	7.7	21	precipitate formed	323
53	8231	<i>Daphnia magna</i>	7775113	0.162	LC50/ITX/INC/	72-120 h	LAB/S/I	1	213	7.5	20	unfed	3690
53	8232	<i>Daphnia magna</i>	7775113	0.407	LC50/ITX/INC/	72-120 h	LAB/S/I	1	185	7.9	20	unfed	3690
53	8233	<i>Daphnia magna</i>	7775113	0.274	LC50/ITX/INC/	72-120 h	LAB/S/I	1	185	7.9	20	unfed	3690
53	8813	<i>Daphnia magna</i>	7778509	1.57	LC50/ITX//	adult, 1 mm	LAB/S/I	1	200	7.8	20		5268
53	8817	<i>Daphnia magna</i>	7778509	0.104	LC50/ITX/INC/	72-120 h	LAB/S/I	1	196	7.6	20	unfed	3690
53	8834	<i>Daphnia magna</i>	7778509	0.64	LC50/ITX//	juvenile, 6-24 h	LAB/S/I	1	250	8	20.5		10871
53	8836	<i>Daphnia magna</i>	7778509	0.6	LC50/ITX//	juvenile, 6-24 h	LAB/S/I	1	250	8	20.5		10871
53	8874	<i>Daphnia magna</i>	7778509	1.47	LC50/ITX//	<24 h	LAB/S/S	1	250	7.8	20		7083
53	8892	<i>Daphnia magna</i>	7778509	224	LC50/ITX//	neonate, <24 h	LAB/S/I	1	250	7.9	20		8764
53	8895	<i>Daphnia magna</i>	7778509	1.33	LC50/ITX/INC/	larvae	LAB//I	1	250	7.8	20		17289
53	8901	<i>Daphnia magna</i>	7778509	2.45	LC50/ITX/INC/	0-24 h, neonates	LAB/S/	1	250	8	20	uv exposure	7019
53	8939	<i>Daphnia magna</i>	7778509	1.09	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55965
53	8940	<i>Daphnia magna</i>	7778509	1.14	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.95	20		55965
53	8941	<i>Daphnia magna</i>	7778509	1.28	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55965
53	8942	<i>Daphnia magna</i>	7778509	1.07	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.95	20		55965
53	8943	<i>Daphnia magna</i>	7778509	1.42	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.75	20		55965
53	8944	<i>Daphnia magna</i>	7778509	1.38	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55961
53	8945	<i>Daphnia magna</i>	7778509	0.98	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	8	20		55961
53	8946	<i>Daphnia magna</i>	7778509	1.22	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.9	20		55961
53	8947	<i>Daphnia magna</i>	7778509	1.09	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55961
53	8948	<i>Daphnia magna</i>	7778509	1.14	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.95	20		55961

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
53	8949	<i>Daphnia magna</i>	7778509	1.28	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55961
53	8950	<i>Daphnia magna</i>	7778509	1.07	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.95	20		55961
53	8951	<i>Daphnia magna</i>	7778509	1.42	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.75	20		55961
53	8952	<i>Daphnia magna</i>	7778509	1.7	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55961
53	10000	<i>Daphnia magna</i>	7789006	0.088	LC50/ITX/INC/	72-120 h	LAB/S/I	1	188	7.6	20	unfed	3690
53	10014	<i>Daphnia magna</i>	7789006	2.98	LC50/MOR//		LAB//I	1	190	7.7	21		323
53	10320	<i>Daphnia magna</i>	12680487	0.149	LC50/ITX/INC/	72-120 h	LAB/S/I	1	196	7.5	20	unfed	3690
53	9029	<i>Daphnia obtusa</i>	7778509	0.45	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	1	250	7.8	20		20191
53	9588	<i>Simocephalus vetulus</i>	7778509	154	LC50/ITX//	neonate, <24 h	LAB/S/I	1	250	7.9	20		8764
54	Invertebrates exposed to chromium in hard water at >15degC over <=1 day exposure												
54	9065	<i>Elimia livescens</i>	7778509	10	LC50/MOR//		LAB/S/S	1	154	7.8	23.5		6109
54	9191	<i>Lymnaea emarginata angulata</i>	7778509	52	LC50/MOR//		LAB/S/S	1	154	7.8	23.5		6109
54	9318	<i>Physa integra</i>	7778509	3.8	LC50/MOR//		LAB/S/S	1	154	7.8	23.5		6109
54	9610	<i>Streptocephalus proboscideus</i>	7778509	2.7	LC50/MOR/INC/	nauplii	LAB/S/K	1	152.5	7.9	20		13328
54	9615	<i>Streptocephalus proboscideus</i>	7778509	1.62	LC50/MOR/INC/	nauplii	LAB/S/K	1	152.5	7.9	25		13328
54	9620	<i>Streptocephalus proboscideus</i>	7778509	0.96	LC50/MOR/INC/	nauplii	LAB/S/K	1	152.5	7.9	30		13328
54	9721	<i>Viviparus bengalensis</i>	7778509	17	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	0.5	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
54	9722	<i>Viviparus bengalensis</i>	7778509	8.5	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	1	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
55	Invertebrates exposed to chromium in moderately hard water at >15degC over 1-3 days exposure												
55	8476	<i>Biomphalaria glabrata</i>	7778509	66.2	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	2	100	7.8	20		5268
55	8670	<i>Chironomus tentans</i>	7778509	61	LC50/ITX//	4th instar larvae, 18-20 mm	LAB/S/S	2	101	7.5	21	conductivity 364 uscm	10142
55	8996	<i>Daphnia magna</i>	7778509	0.157	LC50/MOR//	48-72 h	LAB/S/S	2	92	7.4	20.25		3678
55	8997	<i>Daphnia magna</i>	7778509	0.175	LC50/MOR//	48-72 h	LAB/S/S	2	100	7.4	20		3678

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
55	10339	<i>Daphnia magna</i>	13548384	21.6	LC50/MOR//	<1 d	LAB/S/I	2	99	8	19.7	water parameters rptd	3621
55	9198	<i>Macrobrachium lamarrei</i>	7778509	1.29	LC50/MOR//	62 cm, 1.5 g	LAB/R/I	2	110.82	7.4	25		11333
55	9199	<i>Macrobrachium lamarrei</i>	7778509	0.86	LC50/MOR//	62 cm, 1.5 g	LAB/R/I	3	110.82	7.4	25		11333
55	10110	<i>Macrobrachium rosenbergii</i>	7789006	0.0525	/BEH//	2.4-5.16 g, juvenile	LAB/R/S	2.5	92.45	7.5	20		8078
55	9288	<i>Philodina acuticornis</i>	7778509	19	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
55	9291	<i>Philodina acuticornis</i>	7778509	21	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
56	<i>Invertebrates exposed to chromium in moderately hard water at >15degC over <=1 day exposure</i>												
56	8472	<i>Biomphalaria glabrata</i>	7778509	260	LC50/MOR//	100 d,14 mm diameter	LAB/S/I	0.33	100	7.8	20		5268
56	8473	<i>Biomphalaria glabrata</i>	7778509	147	LC50/MOR//	100 d,14 mm diameter	LAB/S/I	0.5	100	7.8	20		5268
56	8474	<i>Biomphalaria glabrata</i>	7778509	138	LC50/MOR//	100 d,14 mm diameter	LAB/S/I	0.58	100	7.8	20		5268
56	8475	<i>Biomphalaria glabrata</i>	7778509	115	LC50/MOR//	100 d,14 mm diameter	LAB/S/I	1	100	7.8	20		5268
56	9847	<i>Chironomus tentans</i>	7778509	0.01	/BEH//	4th instar larvae, 18-20 mm	LAB/S/I	0.06	101	7.5	21	conductivity 364 uscm	10142
56	9848	<i>Chironomus tentans</i>	7778509	0.1	/BEH//	4th instar larvae, 18-20 mm	LAB/S/I	0.06	101	7.5	21	conductivity 364 uscm	10142
56	9849	<i>Chironomus tentans</i>	7778509	1000	/BEH//	4th instar larvae, 18-20 mm	LAB/S/I	0.06	101	7.5	21	conductivity 364 uscm	10142
56	9850	<i>Chironomus tentans</i>	7778509	1000	/BEH//	4th instar larvae, 18-20 mm	LAB/S/I	0.06	101	7.5	21	conductivity 364 uscm	10142
56	9851	<i>Chironomus tentans</i>	7778509	505	/BEH//	4th instar larvae, 18-20 mm	LAB/S/I	0.06	101	7.5	21	conductivity 364 uscm	10142
56	8814	<i>Daphnia magna</i>	7778509	0.83	LC50/ITX//	adult,1 mm	LAB/S/I	1	100	7.8	20		5268
56	10216	<i>Daphnia magna</i>	10588019	0.49	LC50/MOR//	24 h	LAB/S/I	1	70	7.65	21		5718
56	9197	<i>Macrobrachium lamarrei</i>	7778509	1.9	LC50/MOR//	62 cm, 1.5 g	LAB/R/I	1	110.82	7.4	25		11333
56	9287	<i>Philodina acuticornis</i>	7778509	23	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019
56	9292	<i>Philodina acuticornis</i>	7778509	22	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019

mg total metal/L, hardness in mg CaCO₃/L

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SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
56	9609	<i>Streptocephalus proboscideus</i>	7778509	1.58	LC50/MOR/INC/	nauplii	LAB/S/K	1	90.5	7.7	20		13328
56	9614	<i>Streptocephalus proboscideus</i>	7778509	0.91	LC50/MOR/INC/	nauplii	LAB/S/K	1	90.5	7.7	25		13328
56	9619	<i>Streptocephalus proboscideus</i>	7778509	0.61	LC50/MOR/INC/	nauplii	LAB/S/K	1	90.5	7.7	30		13328
56	9622	<i>Streptocephalus proboscideus</i>	7778509	0.29	LC50/MOR/INC/	nauplii	LAB/S/K	1	90.5	6	25		13328
56	9623	<i>Streptocephalus proboscideus</i>	7778509	0.93	LC50/MOR/INC/	nauplii	LAB/S/K	1	90.5	7.7	25		13328
56	10088	<i>Streptocephalus proboscideus</i>	7789006	1.9	LC50/MOR/INC/	instar ii-iii nauplii	LAB/S/C	1	90	7.9	25		14250
56	10089	<i>Streptocephalus proboscideus</i>	7789006	0.89	LC50/MOR/INC/	instar ii-iii nauplii	LAB/S/C	1	90	7.6	25		14250
57	Invertebrates exposed to chromium in soft water at <15degC over 1-3 days exposure												
57	8437	<i>Aeolosoma headleyi</i>	7778509	12.1	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
57	8438	<i>Aeolosoma headleyi</i>	7778509	10	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
57	8439	<i>Aeolosoma headleyi</i>	7778509	8.6	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
57	8455	<i>Anculosa</i>	7778509	9.1	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
57	8456	<i>Anculosa</i>	7778509	7.8	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
57	8457	<i>Anculosa</i>	7778509	3.7	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
57	8672	<i>Chironomus tentans</i>	7778509	11.8	LC50/ITX/INC/	3rd instar larvae	LAB/S/C	2	25	6.3	14		4553
57	8710	<i>Crangonyx pseudogracilis</i>	7778509	2.2	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	2	50	6.75	13		11972
57	9987	<i>Crangonyx pseudogracilis</i>	7789006	2.69	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	2	50	6.75	13		11972
57	8981	<i>Daphnia magna</i>	7778509	2.7	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
57	8982	<i>Daphnia magna</i>	7778509	2	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
57	8983	<i>Daphnia magna</i>	7778509	1.5	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
57	9043	<i>Daphnia pulex</i>	7778509	1.7	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
57	9044	<i>Daphnia pulex</i>	7778509	1.1	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
57	9045	<i>Daphnia pulex</i>	7778509	0.3	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
58	Invertebrates exposed to chromium in soft water at <15degC over <=1 day exposure												
58	8442	<i>Aeolosoma headleyi</i>	7778509	1.4	LC50/MOR//		LAB/S/S	1	45	7.5	5		518
58	8443	<i>Aeolosoma headleyi</i>	7778509	10.8	LC50/MOR//		LAB/S/S	1	45	7.5	10		518
58	8444	<i>Aeolosoma headleyi</i>	7778509	10	LC50/MOR//		LAB/S/S	1	45	7.5	15		518
58	8450	<i>Anculosa</i>	7778509	9.6	LC50/MOR//		LAB/S/S	1	45	7.5	5		518
58	8451	<i>Anculosa</i>	7778509	9	LC50/MOR//		LAB/S/S	1	45	7.5	10		518
58	8452	<i>Anculosa</i>	7778509	7.4	LC50/MOR//		LAB/S/S	1	45	7.5	15		518

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
58	8671	<i>Chironomus tentans</i>	7778509	21.95	LC50/ITX/INC/	3rd instar larvae	LAB/S/C	1	25	6.3	14		4553
58	8976	<i>Daphnia magna</i>	7778509	2.8	LC50/MOR//		LAB/S/S	1	45	7.5	5		518
58	8977	<i>Daphnia magna</i>	7778509	2.14	LC50/MOR//		LAB/S/S	1	45	7.5	10		518
58	8978	<i>Daphnia magna</i>	7778509	1.7	LC50/MOR//		LAB/S/S	1	45	7.5	15		518
58	9048	<i>Daphnia pulex</i>	7778509	2	LC50/MOR//		LAB/S/S	1	45	7.5	5		518
58	9049	<i>Daphnia pulex</i>	7778509	2	LC50/MOR//		LAB/S/S	1	45	7.5	10		518
58	9050	<i>Daphnia pulex</i>	7778509	0.4	LC50/MOR//		LAB/S/S	1	45	7.5	15		518
58	9597	<i>Streptocephalus proboscideus</i>	7778509	0.32	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	10		13328
58	9598	<i>Streptocephalus proboscideus</i>	7778509	0.58	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	10		13328
58	9602	<i>Streptocephalus proboscideus</i>	7778509	0.39	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	15		13328
58	9603	<i>Streptocephalus proboscideus</i>	7778509	0.68	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	15		13328
59	Invertebrates exposed to chromium in soft water at >15degC over 3-30 days exposure												
59	8062	<i>Amnicola</i>	7440473	12.4	LC50/MOR//	egg	LAB/S/I	4	50	7.6	17		2020
59	8064	<i>Amnicola</i>	7440473	8.4	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
59	10210	<i>Ceriodaphnia reticulata</i>	10588019	0.0445	MATC/REP//	< 24 h	LAB/F/I	14	45	7.35	25		3686
59	8086	<i>Chironomus</i>	7440473	11	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
59	8244	<i>Daphnia magna</i>	7775113	0.0178	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	fed	3690
59	8830	<i>Daphnia magna</i>	7778509	0.0169	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	fed	3690
59	10011	<i>Daphnia magna</i>	7789006	0.0074	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	fed	3690
59	10224	<i>Daphnia magna</i>	10588019	0.0025	MATC/REP//	< 24 h	LAB/F/I	14	45	7.35	25		3686
59	10331	<i>Daphnia magna</i>	12680487	0.0245	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	fed	3690
59	10230	<i>Daphnia pulex</i>	10588019	0.0064	MATC/REP//	< 24 h	LAB/F/I	14	45	7.35	25		3686
59	8104	<i>Dugesia tigrina</i>	7440473	2.22	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
59	9062	<i>Dugesia tigrina</i>	7778509	7.3	LC50/MOR//		LAB/S/I	4	40	7.5	23	for other water chem see paper	6154
59	8109	<i>Gammarus</i>	7440473	3.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
59	10046	<i>Gammarus pseudolimnaeus</i>	7789006	0.101	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	unfed	3690
59	10050	<i>Hyalella azteca</i>	7789006	0.63	LC50/ITX/INC/	72-120 h	LAB/S/I	4	50	7.6	20	unfed	3690
59	9185	<i>Lumbriculus variegatus</i>	7778509	13.3	LC50/MOR/INC/		LAB/S/C	4	30	7.5	20		6502
59	8123	<i>Nais</i>	7440473	9.3	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
59	9295	<i>Philodina acuticornis</i>	7778509	3.1	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
59	9296	<i>Philodina acuticornis</i>	7778509	3.1	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
59	10264	<i>Simocephalus serrulatus</i>	10588019	0.0212	MATC/REP//	< 24 h	LAB/F/I	14	45	7.35	25		3686
59	10266	<i>Simocephalus vetulus</i>	10588019	0.0064	MATC/REP//	< 24 h	LAB/F/I	14	45	7.35	25		3686
59	8142	<i>Trichoptera</i>	7440473	50	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
59	8144	<i>Zygoptera</i>	7440473	43.1	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
60	Invertebrates exposed to chromium in soft water at >15degC over 1-3 days exposure												
60	8440	<i>Aeolosoma headleyi</i>	7778509	7	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
60	8441	<i>Aeolosoma headleyi</i>	7778509	4.8	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
60	8458	<i>Anculosa</i>	7778509	1.2	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
60	8459	<i>Anculosa</i>	7778509	0.8	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
60	10209	<i>Ceriodaphnia reticulata</i>	10588019	0.0452	LC50/MOR//	< 24 h	LAB/F/I	2	45	7.35	25		3686
60	8094	<i>Daphnia ambigua</i>	7440473	1.7	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
60	8097	<i>Daphnia magna</i>	7440473	5.2	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
60	8242	<i>Daphnia magna</i>	7775113	0.0206	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	unfed	3690
60	8243	<i>Daphnia magna</i>	7775113	0.0211	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	fed	3690
60	8828	<i>Daphnia magna</i>	7778509	0.0199	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	unfed	3690
60	8829	<i>Daphnia magna</i>	7778509	0.0216	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	fed	3690
60	8984	<i>Daphnia magna</i>	7778509	0.3	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
60	8985	<i>Daphnia magna</i>	7778509	0.2	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
60	10009	<i>Daphnia magna</i>	7789006	0.0153	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	unfed	3690
60	10010	<i>Daphnia magna</i>	7789006	0.0192	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	fed	3690
60	10217	<i>Daphnia magna</i>	10588019	0.0242	LC50/MOR//	< 24 h	LAB/F/I	2	45	7.35	25		3686
60	10329	<i>Daphnia magna</i>	12680487	0.0213	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	unfed	3690
60	10330	<i>Daphnia magna</i>	12680487	0.0199	LC50/ITX/INC/	72-120 h	LAB/S/I	2	50	7.6	20	fed	3690
60	10338	<i>Daphnia magna</i>	13548384	9.32	LC50/MOR//	<1 d	LAB/S/I	2	52	7.9	19.9	water parameters rptd	3621
60	9046	<i>Daphnia pulex</i>	7778509	0.27	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
60	9047	<i>Daphnia pulex</i>	7778509	0.14	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
60	10229	<i>Daphnia pulex</i>	10588019	0.0363	LC50/MOR//	< 24 h	LAB/F/I	2	45	7.35	25		3686
60	9184	<i>Lumbriculus variegatus</i>	7778509	25.3	LC50/MOR/INC/		LAB/S/C	2	30	7.5	20		6502
60	9202	<i>Moina australiensis</i>	7778509	0.0202	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
60	9203	<i>Moina australiensis</i>	7778509	0.0247	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
60	9204	<i>Moina australiensis</i>	7778509	0.0218	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
60	9205	<i>Moina australiensis</i>	7778509	0.0346	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
60	9206	<i>Moina australiensis</i>	7778509	0.0386	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
60	9207	<i>Moina australiensis</i>	7778509	0.0352	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
60	9208	<i>Moina australiensis</i>	7778509	0.0276	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
60	9209	<i>Moina australiensis</i>	7778509	0.0239	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
60	9210	<i>Moina australiensis</i>	7778509	0.0246	LC50/ITX/INC/	neonates, <24 h	LAB/S/	2	36	7.8	23		13699
60	9294	<i>Philodina acuticornis</i>	7778509	50	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
60	9297	<i>Philodina acuticornis</i>	7778509	31.2	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
60	10263	<i>Simocephalus serrulatus</i>	10588019	0.0409	LC50/MOR//	< 24 h	LAB/F/I	2	45	7.35	25		3686
60	10265	<i>Simocephalus vetulus</i>	10588019	0.0323	LC50/MOR//	< 24 h	LAB/F/I	2	45	7.35	25		3686
60	9591	<i>Spirostomum ambiguum</i>	7778509	11	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
60	9593	<i>Spirostomum ambiguum</i>	7778509	35.2	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
60	9654	<i>Tanytarsus dissimilis</i>	7778509	57.3	LC50/MOR//	3rd or 4th instar, 2.0-3.5 mm	LAB/S/I	2	47	7.5	20.4	acidity	10579
60	9700	<i>Tubifex tubifex</i>	7778509	1.53	LC50/MOR//		LAB/R/S	2	34.2	7.2	20	mg, po4 and ca, dilution h2o for bod with phosphate buffer	8905
60	9704	<i>Tubifex tubifex</i>	7778509	0.063	LC50/MOR//		LAB/R/S	2	0.1	6.3	20		8905
60	9706	<i>Tubifex tubifex</i>	7778509	1.41	LC50/MOR//		LAB/R/S	2	34.2	6.85	20	mg, po4 and ca, dilution h2o for bod without po4 buffer	8905
61	<i>Invertebrates exposed to chromium in soft water at >15degC over <=1 day exposure</i>												
61	8445	<i>Aeolosoma headleyi</i>	7778509	7.8	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
61	8446	<i>Aeolosoma headleyi</i>	7778509	5.6	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
61	8061	<i>Amnicola</i>	7440473	15.2	LC50/MOR//	egg	LAB/S/I	1	50	7.6	17		2020
61	8063	<i>Amnicola</i>	7440473	10.2	LC50/MOR//	adult	LAB/S/I	1	50	7.6	17		2020
61	8453	<i>Anculosa</i>	7778509	5.6	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
61	8454	<i>Anculosa</i>	7778509	5	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
61	8085	<i>Chironomus</i>	7440473	16.5	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
61	9746	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/CHG/ANOSIG		LAB/S/C	1	50	7.68	20		48216
61	9747	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/INC/ASIG		LAB/S/C	1	50	7.68	20		48216
61	9748	<i>Chironomus riparius</i>	7778509	0.5	/ENZ/CHG/SIG		LAB/S/C	1	50	7.68	20		48216

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
61	9749	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/INC/ASIG		LAB/S/C	1	50	7.68	20		48216
61	9750	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/DEC/ANOSIG		LAB/S/C	1	50	7.68	20		48216
61	9751	<i>Chironomus riparius</i>	7778509	5	/ENZ/DEC/SIG		LAB/S/C	1	50	7.68	20		48216
61	9752	<i>Chironomus riparius</i>	7778509	0.5	/ENZ/DEC/NOSIG		LAB/S/C	1	50	7.68	20		48216
61	9753	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/CHG/ANOSIG		LAB/S/C	1	50	7.68	20		48216
61	9754	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/DEC/ANOSIG		LAB/S/C	1	50	7.68	20		48216
61	9755	<i>Chironomus riparius</i>	7778509	2.75	/ENZ/CHG/ANOSIG		LAB/S/C	1	50	7.68	20		48216
61	9756	<i>Chironomus riparius</i>	7778509	2.75	/BCM/DEC/ANOSIG		LAB/S/C	1	50	7.68	20		48216
61	9757	<i>Chironomus riparius</i>	7778509	5	/ENZ/DEC/NOSIG		LAB/S/C	1	50	7.68	20		48216
61	8234	<i>Daphnia magna</i>	7775113	0.027	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
61	8235	<i>Daphnia magna</i>	7775113	0.024	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
61	8236	<i>Daphnia magna</i>	7775113	0.035	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	8237	<i>Daphnia magna</i>	7775113	0.035	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	8238	<i>Daphnia magna</i>	7775113	0.036	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	8239	<i>Daphnia magna</i>	7775113	0.045	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	8820	<i>Daphnia magna</i>	7778509	0.031	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
61	8821	<i>Daphnia magna</i>	7778509	0.037	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
61	8822	<i>Daphnia magna</i>	7778509	0.027	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	8823	<i>Daphnia magna</i>	7778509	0.035	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	8824	<i>Daphnia magna</i>	7778509	0.048	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	8825	<i>Daphnia magna</i>	7778509	0.036	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	8979	<i>Daphnia magna</i>	7778509	0.4	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
61	8980	<i>Daphnia magna</i>	7778509	0.27	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
61	10003	<i>Daphnia magna</i>	7789006	0.027	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
61	10004	<i>Daphnia magna</i>	7789006	0.027	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
61	10005	<i>Daphnia magna</i>	7789006	0.032	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	10006	<i>Daphnia magna</i>	7789006	0.033	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	10323	<i>Daphnia magna</i>	12680487	0.044	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	unfed	3690
61	10324	<i>Daphnia magna</i>	12680487	0.033	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	10325	<i>Daphnia magna</i>	12680487	0.031	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	10326	<i>Daphnia magna</i>	12680487	0.057	LC50/ITX/INC/	72-120 h	LAB/S/I	1	50	7.6	20	fed	3690
61	9051	<i>Daphnia pulex</i>	7778509	0.3	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
61	9052	<i>Daphnia pulex</i>	7778509	0.2	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
61	10033	<i>Daphnia pulex</i>	7789006	0.1	LC50/MOR/INC/	>=6 d	LAB/S/C	1	46	7.5	21	mixture, oil, effluent, species comparison age, temps	3402
61	8108	<i>Gammarus</i>	7440473	6.4	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
61	8122	<i>Nais</i>	7440473	12.1	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
61	9293	<i>Philodina acuticornis</i>	7778509	42	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
61	9298	<i>Philodina acuticornis</i>	7778509	31.6	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
61	9590	<i>Spirostomum ambiguum</i>	7778509	18.1	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
61	9592	<i>Spirostomum ambiguum</i>	7778509	25.7	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
61	9607	<i>Streptocephalus proboscideus</i>	7778509	0.28	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	20		13328
61	9608	<i>Streptocephalus proboscideus</i>	7778509	0.48	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	20		13328
61	9612	<i>Streptocephalus proboscideus</i>	7778509	0.12	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	25		13328
61	9613	<i>Streptocephalus proboscideus</i>	7778509	0.34	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	25		13328
61	9617	<i>Streptocephalus proboscideus</i>	7778509	0.061	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	30		13328
61	9618	<i>Streptocephalus proboscideus</i>	7778509	0.22	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	30		13328
61	9653	<i>Tanytarsus dissimilis</i>	7778509	206	LC50/MOR//	3rd or 4th instar, 2.0-3.5 mm	LAB/S/I	1	47	7.5	20.4	acidity	10579
61	8141	<i>Trichoptera</i>	7440473	5.8	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
61	9703	<i>Tubifex tubifex</i>	7778509	0.088	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
61	9705	<i>Tubifex tubifex</i>	7778509	15.1	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	mg, po4 and ca, dilution h2o for bod without po4 buffer	8905
61	9707	<i>Tubifex tubifex</i>	7778509	10	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	mg, po4 and ca, dilution h2o for bod with phosphate buffer	8905
61	8143	<i>Zygoptera</i>	7440473	46	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
62	Invertebrates exposed to chromium in very hard water at >15degC over 1-3 days exposure												
62	8634	<i>Chironomus</i>	7778509	21.34	LC50/MOR/INC/	1st instar larvae,	LAB//C	2	250	7.8	20		18590
62	8635	<i>Chironomus</i>	7778509	20.94	LC50/MOR/INC/	1st instar larvae,	LAB//C	2	250	7.8	20		18590
62	8636	<i>Chironomus</i>	7778509	23	LC50/MOR/INC/	1st instar larvae,	LAB//C	2	250	7.8	20		18590
62	8637	<i>Chironomus</i>	7778509	23.11	LC50/MOR/INC/	1st instar larvae,	LAB//C	2	250	7.8	20		18590
62	8638	<i>Chironomus</i>	7778509	17.3	LC50/MOR/INC/	1st instar larvae,	LAB//C	2	250	7.8	20		18590

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
62	8639	<i>Chironomus</i>	7778509	16.64	LC50/MOR/INC/	1st instar larvae,	LAB//C	2	250	7.8	20		18590
62	8640	<i>Chironomus</i>	7778509	19.37	LC50/MOR/INC/	1st instar larvae,	LAB//C	2	250	7.8	20		18590
62	8641	<i>Chironomus</i>	7778509	19.35	LC50/MOR/INC/	1st instar larvae,	LAB//C	2	250	7.8	20		18590
62	8642	<i>Chironomus</i>	7778509	20.34	LC50/MOR/INC/	1st instar larvae,	LAB//C	2	250	7.8	20		18590
62	8643	<i>Chironomus</i>	7778509	20.3	LC50/MOR/INC/	1st instar larvae,	LAB//C	2	250	7.8	20		18590
62	8645	<i>Chironomus</i>	7778509	90.63	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8646	<i>Chironomus</i>	7778509	89.9	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8647	<i>Chironomus</i>	7778509	111.71	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8648	<i>Chironomus</i>	7778509	112.97	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8649	<i>Chironomus</i>	7778509	67.03	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8650	<i>Chironomus</i>	7778509	65.89	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8651	<i>Chironomus</i>	7778509	90.68	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8652	<i>Chironomus</i>	7778509	90.92	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8653	<i>Chironomus</i>	7778509	75.49	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8654	<i>Chironomus</i>	7778509	74.16	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8655	<i>Chironomus</i>	7778509	39.16	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8656	<i>Chironomus</i>	7778509	111.89	LC50/MOR/INC/	3rd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8657	<i>Chironomus</i>	7778509	110.07	LC50/MOR/INC/	3rd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8658	<i>Chironomus</i>	7778509	65.32	LC50/MOR/INC/	3rd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8659	<i>Chironomus</i>	7778509	65.27	LC50/MOR/INC/	3rd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8660	<i>Chironomus</i>	7778509	105.35	LC50/MOR/INC/	3rd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8661	<i>Chironomus</i>	7778509	104.16	LC50/MOR/INC/	3rd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8662	<i>Chironomus</i>	7778509	76.5	LC50/MOR/INC/	3rd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8664	<i>Chironomus</i>	7778509	69.26	LC50/MOR/INC/	3rd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8665	<i>Chironomus</i>	7778509	67.65	LC50/MOR/INC/	3rd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8666	<i>Chironomus</i>	7778509	157.65	LC50/MOR/INC/	3rd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8667	<i>Chironomus</i>	7778509	17.23	LC50/MOR/INC/	1st instar larvae,	LAB//C	2	250	7.8	20		18590
62	8668	<i>Chironomus</i>	7778509	38.56	LC50/MOR/INC/	2nd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8669	<i>Chironomus</i>	7778509	154.52	LC50/MOR/INC/	3rd instar larvae,	LAB//C	2	250	7.8	20		18590
62	8031	<i>Daphnia magna</i>	1333820	0.8	LC50/MOR//		LAB//I	2	190	7.7	21	precipitate formed	323
62	8032	<i>Daphnia magna</i>	1333820	0.58	LC50/MOR//		LAB//I	3	190	7.7	21	precipitate formed	323
62	8240	<i>Daphnia magna</i>	7775113	0.076	LC50/ITX/INC/	72-120 h	LAB/S/I	2	213	7.5	20	unfed	3690
62	8241	<i>Daphnia magna</i>	7775113	0.164	LC50/ITX/INC/	72-120 h	LAB/S/I	2	185	7.9	20	unfed	3690
62	8826	<i>Daphnia magna</i>	7778509	0.086	LC50/ITX/INC/	72-120 h	LAB/S/I	2	196	7.6	20	unfed	3690
62	8835	<i>Daphnia magna</i>	7778509	0.27	LC50/ITX//	juvenile, 6-24 h	LAB/S/I	2	250	8	20.5		10871
62	8837	<i>Daphnia magna</i>	7778509	0.32	LC50/ITX//	juvenile, 6-24 h	LAB/S/I	2	250	8	20.5		10871
62	8896	<i>Daphnia magna</i>	7778509	1.05	LC50/ITX/INC/	larvae	LAB//	2	250	7.8	20		17289

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
62	8902	<i>Daphnia magna</i>	7778509	0.004	LC50/ITX/INC/	0-24 h, neonates	LAB/S/B	3	250	8	20	uv exposure, yeast diet	7019
62	8905	<i>Daphnia magna</i>	7778509	0.003	LC50/ITX/INC/	0-24 h, neonates	LAB/S/B	3	250	8	20	uv exposure, normal diet	7019
62	10007	<i>Daphnia magna</i>	7789006	0.067	LC50/ITX/INC/	72-120 h	LAB/S/I	2	188	7.6	20	unfed	3690
62	10015	<i>Daphnia magna</i>	7789006	0.55	LC50/MOR//		LAB//I	2	190	7.7	21		323
62	10016	<i>Daphnia magna</i>	7789006	0.4	LC50/MOR//		LAB//I	3	190	7.7	21		323
62	10327	<i>Daphnia magna</i>	12680487	0.074	LC50/ITX/INC/	72-120 h	LAB/S/I	2	196	7.5	20	unfed	3690
62	9030	<i>Daphnia obtusa</i>	7778509	0.23	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	2	250	7.8	20		20191
62	9188	<i>Lymnaea acuminata</i>	7778509	9.69	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	2	375	7.5	27.5	water chem profile rptd	11099
62	9189	<i>Lymnaea acuminata</i>	7778509	6.75	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	3	375	7.5	27.5	water chem profile rptd	11099
62	9702	<i>Tubifex tubifex</i>	7778509	4.57	LC50/MOR//		LAB/R/S	2	261	7.32	20	mg, po4 and ca	8905
63	Invertebrates exposed to chromium in very hard water at >15degC over <=1 day exposure												
63	8584	<i>Ceriodaphnia dubia</i>	7778509	53	LC50/ITX//	neonate, <24 h	LAB/S/I	1	250	7.9	20		8764
63	8627	<i>Ceriodaphnia pulchella</i>	7778509	196	LC50/ITX//	neonate, <24 h	LAB/S/I	1	250	7.9	20		8764
63	8806	<i>Daphnia carinata</i>	7778509	423	LC50/ITX//	neonate, <24 h	LAB/S/I	1	250	7.9	20		8764
63	8030	<i>Daphnia magna</i>	1333820	1.87	LC50/MOR//		LAB//I	1	190	7.7	21	precipitate formed	323
63	8231	<i>Daphnia magna</i>	7775113	0.162	LC50/ITX/INC/	72-120 h	LAB/S/I	1	213	7.5	20	unfed	3690
63	8232	<i>Daphnia magna</i>	7775113	0.407	LC50/ITX/INC/	72-120 h	LAB/S/I	1	185	7.9	20	unfed	3690
63	8233	<i>Daphnia magna</i>	7775113	0.274	LC50/ITX/INC/	72-120 h	LAB/S/I	1	185	7.9	20	unfed	3690
63	8813	<i>Daphnia magna</i>	7778509	1.57	LC50/ITX//	adult, 1 mm	LAB/S/I	1	200	7.8	20		5268
63	8817	<i>Daphnia magna</i>	7778509	0.104	LC50/ITX/INC/	72-120 h	LAB/S/I	1	196	7.6	20	unfed	3690
63	8834	<i>Daphnia magna</i>	7778509	0.64	LC50/ITX//	juvenile, 6-24 h	LAB/S/I	1	250	8	20.5		10871
63	8836	<i>Daphnia magna</i>	7778509	0.6	LC50/ITX//	juvenile, 6-24 h	LAB/S/I	1	250	8	20.5		10871
63	8874	<i>Daphnia magna</i>	7778509	1.47	LC50/ITX//	<24 h	LAB/S/S	1	250	7.8	20		7083
63	8892	<i>Daphnia magna</i>	7778509	224	LC50/ITX//	neonate, <24 h	LAB/S/I	1	250	7.9	20		8764
63	8895	<i>Daphnia magna</i>	7778509	1.33	LC50/ITX/INC/	larvae	LAB//	1	250	7.8	20		17289
63	8901	<i>Daphnia magna</i>	7778509	2.45	LC50/ITX/INC/	0-24 h, neonates	LAB/S/	1	250	8	20	uv exposure	7019
63	8939	<i>Daphnia magna</i>	7778509	1.09	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55965
63	8940	<i>Daphnia magna</i>	7778509	1.14	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.95	20		55965
63	8941	<i>Daphnia magna</i>	7778509	1.28	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55965
63	8942	<i>Daphnia magna</i>	7778509	1.07	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.95	20		55965

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
63	8943	<i>Daphnia magna</i>	7778509	1.42	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.75	20		55965
63	8944	<i>Daphnia magna</i>	7778509	1.38	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55961
63	8945	<i>Daphnia magna</i>	7778509	0.98	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	8	20		55961
63	8946	<i>Daphnia magna</i>	7778509	1.22	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.9	20		55961
63	8947	<i>Daphnia magna</i>	7778509	1.09	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55961
63	8948	<i>Daphnia magna</i>	7778509	1.14	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.95	20		55961
63	8949	<i>Daphnia magna</i>	7778509	1.28	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55961
63	8950	<i>Daphnia magna</i>	7778509	1.07	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.95	20		55961
63	8951	<i>Daphnia magna</i>	7778509	1.42	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.75	20		55961
63	8952	<i>Daphnia magna</i>	7778509	1.7	LC50/ITX/INC/	<24 h, lake langedam strain	LAB/S/C	1	250	7.8	20		55961
63	10000	<i>Daphnia magna</i>	7789006	0.088	LC50/ITX/INC/	72-120 h	LAB/S/I	1	188	7.6	20	unfed	3690
63	10014	<i>Daphnia magna</i>	7789006	2.98	LC50/MOR//		LAB//I	1	190	7.7	21		323
63	10320	<i>Daphnia magna</i>	12680487	0.149	LC50/ITX/INC/	72-120 h	LAB/S/I	1	196	7.5	20	unfed	3690
63	9029	<i>Daphnia obtusa</i>	7778509	0.45	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	1	250	7.8	20		20191
63	9187	<i>Lymnaea acuminata</i>	7778509	15.49	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	1	375	7.5	27.5	water chem profile rptd	11099
63	9588	<i>Simocephalus vetulus</i>	7778509	154	LC50/ITX//	neonate, <24 h	LAB/S/I	1	250	7.9	20		8764
63	9701	<i>Tubifex tubifex</i>	7778509	86	LC50/MOR//		LAB/R/S	1	261	7.32	20	mg, po4 and ca	8905
64	Non-arthropod invertebrates exposed to chromium in soft water at >15degC over 3-30 days exposure												
64	8062	<i>Amnicola</i>	7440473	12.4	LC50/MOR//	egg	LAB/S/I	4	50	7.6	17		2020
64	8064	<i>Amnicola</i>	7440473	8.4	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
64	8104	<i>Dugesia tigrina</i>	7440473	2.22	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
64	9062	<i>Dugesia tigrina</i>	7778509	7.3	LC50/MOR//		LAB/S/I	4	40	7.5	23	for other water chem see paper	6154
64	9185	<i>Lumbriculus variegatus</i>	7778509	13.3	LC50/MOR/INC/		LAB/S/C	4	30	7.5	20		6502
64	8123	<i>Nais</i>	7440473	9.3	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
64	9295	<i>Philodina acuticornis</i>	7778509	3.1	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
64	9296	<i>Philodina acuticornis</i>	7778509	3.1	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
64	8144	<i>Zygoptera</i>	7440473	43.1	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
65	Non-arthropod invertebrates exposed to chromium in soft water at >15degC over 1-3 days exposure												
65	8440	<i>Aeolosoma headleyi</i>	7778509	7	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
65	8441	<i>Aeolosoma headleyi</i>	7778509	4.8	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
65	8458	<i>Anculosa</i>	7778509	1.2	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
65	8459	<i>Anculosa</i>	7778509	0.8	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
65	9184	<i>Lumbriculus variegatus</i>	7778509	25.3	LC50/MOR/INC/		LAB/S/C	2	30	7.5	20		6502
65	9294	<i>Philodina acuticornis</i>	7778509	50	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
65	9297	<i>Philodina acuticornis</i>	7778509	31.2	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
65	9591	<i>Spirostomum ambiguum</i>	7778509	11	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
65	9593	<i>Spirostomum ambiguum</i>	7778509	35.2	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
65	9700	<i>Tubifex tubifex</i>	7778509	1.53	LC50/MOR//		LAB/R/S	2	34.2	7.2	20	mg, po4 and ca, dilution h2o for bod with phosphate buffer	8905
65	9704	<i>Tubifex tubifex</i>	7778509	0.063	LC50/MOR//		LAB/R/S	2	0.1	6.3	20		8905
65	9706	<i>Tubifex tubifex</i>	7778509	1.41	LC50/MOR//		LAB/R/S	2	34.2	6.85	20	mg, po4 and ca, dilution h2o for bod without po4 buffer	8905
66	Non-arthropod invertebrates exposed to chromium in soft water at >15degC over <=1 day exposure												
66	8445	<i>Aeolosoma headleyi</i>	7778509	7.8	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
66	8446	<i>Aeolosoma headleyi</i>	7778509	5.6	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
66	8061	<i>Amnicola</i>	7440473	15.2	LC50/MOR//	egg	LAB/S/I	1	50	7.6	17		2020
66	8063	<i>Amnicola</i>	7440473	10.2	LC50/MOR//	adult	LAB/S/I	1	50	7.6	17		2020
66	8453	<i>Anculosa</i>	7778509	5.6	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
66	8454	<i>Anculosa</i>	7778509	5	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
66	8122	<i>Nais</i>	7440473	12.1	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
66	9293	<i>Philodina acuticornis</i>	7778509	42	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
66	9298	<i>Philodina acuticornis</i>	7778509	31.6	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
66	9590	<i>Spirostomum ambiguum</i>	7778509	18.1	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
66	9592	<i>Spirostomum ambiguum</i>	7778509	25.7	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
66	9703	<i>Tubifex tubifex</i>	7778509	0.088	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
66	9705	<i>Tubifex tubifex</i>	7778509	15.1	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	mg, po4 and ca, dilution h2o for bod without po4 buffer	8905
66	9707	<i>Tubifex tubifex</i>	7778509	10	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	mg, po4 and ca, dilution h2o for bod with phosphate buffer	8905
66	8143	<i>Zygoptera</i>	7440473	46	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
67	Vertebrates exposed to chromium in moderately hard water at >15degC over 3-30 days exposure												
67	8017	<i>Ambystoma opacum</i>	1333820	2.13	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
67	9824	<i>Anabas scandens</i>	7778509	25	/BCM//	35 g, 14-16 cm, male	LAB/R/S	15.5	112	7.3	27		7399
67	8021	<i>Colisa fasciata</i>	1333820	21	LC50/MOR//	adult,female,5.12 g	LAB/S/I	4	120	7.3	25	conductivity 1433.33 umhocm	585
67	8057	<i>Colisa fasciata</i>	1333820	18	/BCM//	adult,female,5.12 g	LAB/S/I	3.75	120	7.3	25	conductivity 1433.33 umhocm	585
67	8729	<i>Danio rerio</i>	7778509	58.5	LC50/MOR//	3.5 cm	LAB/S/I	4	100	7.8	20		5268
67	9914	<i>Lepomis macrochirus</i>	7778509	0.05	/BEH//	5 cm	LAB/S/I	14	105	6.5	22		15561
67	8036	<i>Micropterus salmoides</i>	1333820	1.17	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
67	8347	<i>Pimephales promelas</i>	7775113	60.1	LC50/MOR/INC/	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
67	8348	<i>Pimephales promelas</i>	7775113	60.1	LC50/MOR/INC/	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
67	8349	<i>Pimephales promelas</i>	7775113	75.4	LOEC/BCM/CHG/SIG	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
67	8350	<i>Pimephales promelas</i>	7775113	49.7	LOEC/BCM/CHG/SIG	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
67	8351	<i>Pimephales promelas</i>	7775113	9.9	LOEC/BCM/CHG/SIG	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073
67	8352	<i>Pimephales promelas</i>	7775113	60.1	LOEC/BCM/CHG/SIG	90-120 d	LAB/S/C	4	120	7.5	25	sub-sampled	45073

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
67	9969	<i>Tilapia sparrmanii</i>	7778509	0.098	/BCM//	40-120 g	LAB/F/S	4	61	7.4	24	conductivity, 16.4 ms	11283
67	9970	<i>Tilapia sparrmanii</i>	7778509	0.098	/BCM//	40-120 g	LAB/F/S	28	61	7.4	24	conductivity, 16.4 ms	11283
68	Vertebrates exposed to chromium in soft water at >15degC over 3-30 days exposure												
68	9980	<i>Alburnus alburnus</i>	7789006	69.2	LC50/MOR//		LAB/S/I	4	20	7	20		8659
68	8067	<i>Anguilla rostrata</i>	7440473	13.9	LC50/MOR//		LAB/S/I	4	55	8	28		2002
68	8580	<i>Carassius auratus</i>	7778509	37.5	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.5	25		2033
68	10178	<i>Carassius auratus</i>	10141001	4.1	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.5	25		2033
68	8714	Cyprinidae	7778509	108	LC50/MOR//		LAB/S/I	4	4.65	6.2	22		12185
68	8092	<i>Cyprinus carpio</i>	7440473	14.3	LC50/MOR//		LAB/S/I	4	55	8	28		2002
68	10286	<i>Esox lucius</i>	10588019	0.963	/MOR//	eyed eggs, 5 d	LAB/F/U	24	37.8	6.85	17	acidity	8439
68	10287	<i>Esox lucius</i>	10588019	0.538	/MOR//	eyed eggs, 5 d	LAB/F/U	24	37.8	6.85	17	acidity	8439
68	8113	<i>Lepomis gibbosus</i>	7440473	17	LC50/MOR//		LAB/S/I	4	55	8	28		2002
68	9164	<i>Lepomis macrochirus</i>	7778509	132.9	LC50/MOR/INC/	50.1 mm (28-68 mm)	LAB/F/C	4	32	7.7	20.75		6316
68	9179	<i>Lepomis macrochirus</i>	7778509	118	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.5	25		2033
68	9182	<i>Lepomis macrochirus</i>	7778509	133	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.5	25		2033
68	10181	<i>Lepomis macrochirus</i>	10141001	7.46	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.5	25		2033
68	8117	<i>Morone americana</i>	7440473	14.4	LC50/MOR//		LAB/S/I	4	55	8	28		2002
68	8120	<i>Morone saxatilis</i>	7440473	17.7	LC50/MOR//		LAB/S/I	4	55	8	28		2002
68	9465	<i>Pimephales promelas</i>	7778509	17.6	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.5	25		2033
68	9468	<i>Pimephales promelas</i>	7778509	27.3	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.5	25		2033
68	10079	<i>Pimephales promelas</i>	7789006	45.6	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.5	25		2033
68	10189	<i>Pimephales promelas</i>	10141001	5.07	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.5	25		2033
68	10245	<i>Pimephales promelas</i>	10588019	43.3	LC50/MOR//	30 d, 0.15 g	LAB/F/I	4	43.9	7.4	25		12093
68	9565	<i>Poecilia reticulata</i>	7778509	30	LC50/MOR//	0.1-0.2 g, 1.9-2.5 cm, 6 mo	LAB/S/I	4	20	7.5	25		2033
68	10197	<i>Poecilia reticulata</i>	10141001	3.33	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.5	25		2033
69	Vertebrates exposed to chromium in soft water at >15degC over 1-3 days exposure												
69	9979	<i>Alburnus alburnus</i>	7789006	85.2	LC50/MOR//		LAB/S/I	2	20	7	20		8659

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
69	8066	<i>Anguilla rostrata</i>	7440473	16.3	LC50/MOR//		LAB/S/I	2	55	8	28		2002
69	8579	<i>Carassius auratus</i>	7778509	58.8	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.5	25		2033
69	10177	<i>Carassius auratus</i>	10141001	5.37	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.5	25		2033
69	8713	Cyprinidae	7778509	160	LC50/MOR//		LAB/S/I	2	4.65	6.2	22		12185
69	8091	<i>Cyprinus carpio</i>	7440473	18.4	LC50/MOR//		LAB/S/I	2	55	8	28		2002
69	8112	<i>Lepomis gibbosus</i>	7440473	17.8	LC50/MOR//		LAB/S/I	2	55	8	28		2002
69	9178	<i>Lepomis macrochirus</i>	7778509	171	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.5	25		2033
69	9181	<i>Lepomis macrochirus</i>	7778509	180	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.5	25		2033
69	10180	<i>Lepomis macrochirus</i>	10141001	38.7	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.5	25		2033
69	8116	<i>Morone americana</i>	7440473	16	LC50/MOR//		LAB/S/I	2	55	8	28		2002
69	8119	<i>Morone saxatilis</i>	7440473	18.8	LC50/MOR//		LAB/S/I	2	55	8	28		2002
69	9464	<i>Pimephales promelas</i>	7778509	19.7	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.5	25		2033
69	9467	<i>Pimephales promelas</i>	7778509	35.4	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.5	25		2033
69	10078	<i>Pimephales promelas</i>	7789006	60.4	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.5	25		2033
69	10188	<i>Pimephales promelas</i>	10141001	5.22	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.5	25		2033
69	9564	<i>Poecilia reticulata</i>	7778509	61.7	LC50/MOR//	0.1-0.2 g, 1.9-2.5 cm, 6 mo	LAB/S/I	2	20	7.5	25		2033
69	10196	<i>Poecilia reticulata</i>	10141001	3.85	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.5	25		2033
70	Vertebrates exposed to chromium in soft water at >15degC over <=1 day exposure												
70	9978	<i>Alburnus alburnus</i>	7789006	105	LC50/MOR//		LAB/S/I	1	20	7	20		8659
70	8065	<i>Anguilla rostrata</i>	7440473	19.5	LC50/MOR//		LAB/S/I	1	55	8	28		2002
70	8578	<i>Carassius auratus</i>	7778509	122	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.5	25		2033
70	10176	<i>Carassius auratus</i>	10141001	11	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.5	25		2033
70	8712	Cyprinidae	7778509	170	LC50/MOR//		LAB/S/I	1	4.65	6.2	22		12185
70	8090	<i>Cyprinus carpio</i>	7440473	21.2	LC50/MOR//		LAB/S/I	1	55	8	28		2002
70	8111	<i>Lepomis gibbosus</i>	7440473	19.1	LC50/MOR//		LAB/S/I	1	55	8	28		2002
70	9177	<i>Lepomis macrochirus</i>	7778509	284	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.5	25		2033
70	9180	<i>Lepomis macrochirus</i>	7778509	228	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.5	25		2033
70	10179	<i>Lepomis macrochirus</i>	10141001	67.4	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.5	25		2033

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
70	8115	<i>Morone americana</i>	7440473	17.5	LC50/MOR//		LAB/S/I	1	55	8	28	2002
70	8118	<i>Morone saxatilis</i>	7440473	19.3	LC50/MOR//		LAB/S/I	1	55	8	28	2002
70	9941	<i>Oryzias latipes</i>	7778509	5.5	/MOR//	fry, 8 d	LAB/S/S	1	10.5	6.9	25	12151
70	9463	<i>Pimephales promelas</i>	7778509	39.6	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.5	25	2033
70	9466	<i>Pimephales promelas</i>	7778509	63.5	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.5	25	2033
70	10077	<i>Pimephales promelas</i>	7789006	109	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.5	25	2033
70	10187	<i>Pimephales promelas</i>	10141001	5.37	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.5	25	2033
70	9563	<i>Poecilia reticulata</i>	7778509	113	LC50/MOR//	0.1-0.2 g, 1.9-2.5 cm, 6 mo	LAB/S/I	1	20	7.5	25	2033
70	10195	<i>Poecilia reticulata</i>	10141001	4.1	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.5	25	2033
71	Vertebrates exposed to chromium in very hard water at >15degC over 3-30 days exposure											
71	8019	<i>Carassius auratus</i>	1333820	0.66	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22	5305
71	8498	<i>Carassius auratus</i>	7778509	33	LC50/MOR/INC/	5 mo - 1.5 yr, 1.37-2.70 g	LAB/F/C	11	210	7.665	24.9	5230
71	8499	<i>Carassius auratus</i>	7778509	120	LC50/MOR/INC/	5 mo - 1.5 yr, 1.37-2.70 g	LAB/F/C	4	210	7.665	24.9	5230
71	8089	<i>Cyprinus carpio</i>	7440473	93.6	LC50/MOR/INC/	35.5-39.4 g, 13.2-14.4 cm	LAB/R/C	4	232.58	7	24.1	19485
71	8035	<i>Gastrophryne carolinensis</i>	1333820	0.03	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22	5305
71	8270	<i>Gila elegans</i>	7775113	81	LC50/MOR/INC/	larva, 5 d, 8 mm, 2 mg	LAB/S/C	4	199	8	25	18325
71	8271	<i>Gila elegans</i>	7775113	104	LC50/MOR/INC/	juvenile, 100 d, 39 mm, 378 mg	LAB/S/C	4	199	8	25	18325
71	9789	<i>Heteropneustes fossilis</i>	7778509	1.65	/MPH/CHG/MULT	14-18 cm, 25-35 g	LAB/R/C	28	250	7.7	20.5	20009
71	9791	<i>Heteropneustes fossilis</i>	7778509	1.65	/CEL/CHG/MULT	14-18 cm, 25-35 g	LAB/R/C	28	250	7.7	20.5	20009
71	9792	<i>Heteropneustes fossilis</i>	7778509	1.65	/BCM/CHG/MULT	14-18 cm, 25-35 g	LAB/R/C	28	250	7.7	20.5	20009
71	9793	<i>Heteropneustes fossilis</i>	7778509	1.65	/IMM/DEC/MULT	14-18 cm, 25-35 g	LAB/R/C	28	250	7.7	20.5	injected with immunizing agent 20009
71	9794	<i>Heteropneustes fossilis</i>	7778509	1.65	/CEL/CHG/MULT	14-18 cm, 25-35 g	LAB/R/C	28	250	7.7	20.5	injected with immunizing agent 20009
71	9903	<i>Heteropneustes fossilis</i>	7778509	5.6	/HIS//	14-16 cm, 25-30 g	LAB/R/S	7	240	7.4	25.5	6258

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
71	10061	<i>Mystus vittatus vittatus</i>	7789006	45.6	LC50/MOR/INC/	fingerling, <=1 g	LAB/S/C	4	279.38	7.98	29		12676
71	10062	<i>Mystus vittatus vittatus</i>	7789006	49.28	LC50/MOR/INC/	immature, >1 g-<=8 g	LAB/S/C	4	279.38	7.98	28.5		12676
71	10063	<i>Mystus vittatus vittatus</i>	7789006	35.32	LC50/MOR/INC/	mature, >8 g	LAB/S/C	4	279.38	7.98	29		12676
71	9338	<i>Pimephales promelas</i>	7778509	39.7	LC50/MOR//	1 g	LAB/S/S	4	209	7.85	25	acidity 9.5 mgl caco3	584
71	9339	<i>Pimephales promelas</i>	7778509	32.7	LC50/MOR//	1 g	LAB/S/S	4	209	7.85	25	acidity 9.5 mgl caco3	584
71	9340	<i>Pimephales promelas</i>	7778509	37.7	LC50/MOR//	1 g	LAB/F/S	4	209	7.85	25	acidity 9.5 mgl caco3	584
71	9341	<i>Pimephales promelas</i>	7778509	37	LC50/MOR//	1 g	LAB/F/S	4	209	7.85	25	acidity 9.5 mgl caco3	584
71	9342	<i>Pimephales promelas</i>	7778509	35.9	LC50/MOR//	1 g	LAB/F/S	4	209	7.85	25	acidity 9.5 mgl caco3	584
71	9376	<i>Pimephales promelas</i>	7778509	48	LC50/MOR/INC/	11 wk, 0.12-0.38 g	LAB/F/C	4	210	7.665	24.9		5230
71	9377	<i>Pimephales promelas</i>	7778509	12	LC50/MOR/INC/	11 wk, 0.12-0.38 g	LAB/F/C	11	210	7.665	24.9	gradual conc inc	5230
71	9378	<i>Pimephales promelas</i>	7778509	18	LC50/MOR/INC/	11 wk, 0.12-0.38 g	LAB/F/C	11	210	7.665	24.9		5230
71	10185	<i>Pimephales promelas</i>	10141001	29	LC50/MOR//	5 wk	LAB/F/S	4	203	7.6	20		3677
71	10186	<i>Pimephales promelas</i>	10141001	27	LC50/MOR//	5 wk	LAB/F/S	4	203	7.6	20		3677
71	10241	<i>Pimephales promelas</i>	10588019	33.2	LC50/MOR//	juvenile, 8 wk, 19 mm, 0.079 g	LAB/F/I	4	220	7.8	25		2125
71	10242	<i>Pimephales promelas</i>	10588019	12.4	LC50/MOR//	juvenile, 8 wk, 19 mm, 0.079 g	LAB/F/I	10	220	7.8	25		2125
71	10243	<i>Pimephales promelas</i>	10588019	5.99	LC50/MOR//	juvenile, 8 wk, 19 mm, 0.079 g	LAB/F/I	20	220	7.8	25		2125
71	10244	<i>Pimephales promelas</i>	10588019	4.36	LC50/MOR//	juvenile, 8 wk, 19 mm, 0.079 g	LAB/F/I	30	220	7.8	25		2125
71	8353	<i>Ptychocheilus lucius</i>	7775113	66	LC50/MOR/INC/	larva, 9 d, 9 mm, 4 mg	LAB/S/C	4	199	8	25		18325
71	8354	<i>Ptychocheilus lucius</i>	7775113	123	LC50/MOR/INC/	juvenile, 155 d, 43 mm, 499 mg	LAB/S/C	4	199	8	25		18325
71	8357	<i>Xyrauchen texanus</i>	7775113	32	LC50/MOR/INC/	larva, 7 d, 11 mm, 4 mg	LAB/S/C	4	199	8	25		18325

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
71	8358	<i>Xyrauchen texanus</i>	7775113	70	LC50/MOR/INC/	juvenile, 102 d, 33 mm, 351 mg	LAB/S/C	4	199	8	25		18325
72	Arthropods exposed to copper in moderately hard water at >15degC over 1-3 days exposure												
72	10996	<i>Ceriodaphnia dubia</i>	7440508	0.014	LC50/MOR/INC/	neonates	LAB/R/	2	97.6	6	25	water from new river, virginia	8661
72	10997	<i>Ceriodaphnia dubia</i>	7440508	0.028	LC50/MOR/INC/	neonates	LAB/R/	2	97.6	8	25	water from new river, virginia	8661
72	11002	<i>Ceriodaphnia dubia</i>	7440508	0.052	LC50/MOR/INC/	neonates	LAB/R/	2	113.6	6	25	water from amy bayou louisiana	8661
72	11003	<i>Ceriodaphnia dubia</i>	7440508	0.076	LC50/MOR/INC/	neonates	LAB/R/	2	113.6	8	25	water from amy bayou louisiana	8661
72	13152	<i>Ceriodaphnia dubia</i>	7758987	0.0062	LC50/MOR/INC/	neonate	LAB/S/C	2	64	7.25	20.9	overlying water	18527
72	13156	<i>Ceriodaphnia dubia</i>	7758987	0.084	LC50/MOR/INC/	neonate	LAB/S/C	2	64	7.25	20.9	pore water	18527
72	13268	<i>Chironomus tentans</i>	7758987	0.323	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	2	64	7.25	20.9	overlying water	18527
72	13272	<i>Chironomus tentans</i>	7758987	5.82	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	2	64	7.25	20.9	pore water	18527
72	13283	<i>Chydorus sphaericus</i>	7758987	0.214	LC50/ITX/INC/	adult >0.30 mm	LAB/S/S	2	83.6	6.66	18	organism from polluted lake, eutrophic level	4258
72	13285	<i>Chydorus sphaericus</i>	7758987	0.194	LC50/ITX/INC/	juvenile, <0.30 mm	LAB/S/S	2	83.6	6.66	18	organism from polluted lake, eutrophic level	4258
72	11885	<i>Daphnia magna</i>	7440508	0.0113	/FDB/DEC/		LAB/R/S	3	90	7.6	22		4329
72	12136	<i>Daphnia magna</i>	7447394	0.03	LC50/MOR//	< 1 d	LAB/S/I	2	105	7.9	20.3	water parameters rpt	3621
72	13702	<i>Daphnia magna</i>	7758987	0.0113	LC50/MOR/INC/		LAB/S/C	2	76	7.45	21.9	water-only	18527
72	13717	<i>Daphnia magna</i>	7758987	0.0154	LC50/MOR/INC/	neonates, clone c	LAB/S/C	2	90.7	7.73	20		19146
72	13718	<i>Daphnia magna</i>	7758987	0.0032	LC50/MOR/INC/	neonates, clone f	LAB/S/C	2	90.7	7.73	20		19146
72	13731	<i>Daphnia magna</i>	7758987	0.34	LC50/MOR//	6-24 h, neonate	LAB/I	2	90	7.6	25		9597
72	11247	<i>Daphnia pulicaria</i>	7440508	0.0972	LC50/MOR//		LAB/S/I	2	88	7.01	18		5081
72	11248	<i>Daphnia pulicaria</i>	7440508	0.199	LC50/MOR//		LAB/S/I	2	100	7.55	18		5081
72	11249	<i>Daphnia pulicaria</i>	7440508	0.627	LC50/MOR//		LAB/S/I	2	86	7.25	18		5081
72	11250	<i>Daphnia pulicaria</i>	7440508	0.213	LC50/MOR//		LAB/S/I	2	82	6.99	18		5081
72	11251	<i>Daphnia pulicaria</i>	7440508	0.165	LC50/MOR//		LAB/S/I	2	84	7.01	18		5081
72	11256	<i>Daphnia pulicaria</i>	7440508	0.0847	LC50/MOR//		LAB/S/I	2	84	7.08	18		5081
72	11257	<i>Daphnia pulicaria</i>	7440508	0.184	LC50/MOR//		LAB/S/I	2	92	7.22	18		5081
72	11258	<i>Daphnia pulicaria</i>	7440508	0.24	LC50/MOR//		LAB/S/I	2	106	7.44	18		5081

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
72	13978	<i>Hyalella azteca</i>	7758987	0.059	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	2	64	7.25	20.9	overlying water	18527
72	13983	<i>Hyalella azteca</i>	7758987	0.754	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	2	64	7.25	20.9	pore water	18527
72	16891	<i>Orconectes rusticus</i>	7758987	12	/MOR//	intermolt adult, 30-35 mm	LAB/F/S	2.5	112.5	7.95	20		2058
73	Arthropods exposed to copper in soft water at <15degC over 3-30 days exposure												
73	12830	<i>Asellus aquaticus</i>	7758987	9.21	LC50/ITX//	adult, 7 mm, 1.5 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
73	10460	<i>Chironomus tentans</i>	1344678	0.0775	LC50/MOR//	fourth instar, adult emr	LAB/F/U	20	36	7.4	15	16 h light	11404
73	10461	<i>Chironomus tentans</i>	1344678	0.0775	LC50/MOR//	fourth instar	LAB/F/U	20	36	7.4	15	16 h light	11404
73	10463	<i>Chironomus tentans</i>	1344678	0.467	LC50/MOR//	fourth instar	LAB/F/S	4	36	7.4	15	16 h light	11404
73	13366	<i>Crangonyx pseudogracilis</i>	7758987	1.29	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
73	13821	<i>Drunella grandis</i>	7758987	0.19	LC50/MOR/INC/	naiads, <0.01 g	LAB/F/C	14	50	7.1	6		10198
73	13919	<i>Gammarus pseudolimnaeus</i>	7758987	0.02	LC50/ITX//		LAB/F/I	4	45	7.62	15		967
73	11477	<i>Paratya australiensis</i>	7440508	0.141	LC50/MOR//		LAB/R/S	4	16	6.79	15	conductivity	3357
73	11478	<i>Paratya australiensis</i>	7440508	0.238	LC50/MOR//		LAB/R/S	4	16.4	6.7	15	conductivity	3357
73	11479	<i>Paratya australiensis</i>	7440508	0.108	LC50/MOR//		LAB/R/S	4	17.5	7	15	conductivity	3357
73	11480	<i>Paratya australiensis</i>	7440508	0.184	LC50/MOR//		LAB/R/S	4	15.6	7.04	15	conductivity	3357
73	11481	<i>Paratya australiensis</i>	7440508	0.317	LC50/MOR//		LAB/R/S	4	14.1	6.73	15	conductivity	3357
73	11486	<i>Paratya australiensis</i>	7440508	0.12	LC50/MOR//		LAB/F/S	4	11.9	6.9	15		3356
73	11487	<i>Paratya australiensis</i>	7440508	0.099	LC50/MOR//		LAB/F/S	4	13.5	6.7	15		3356
73	11488	<i>Paratya australiensis</i>	7440508	0.178	LC50/MOR//		LAB/F/S	4	12.7	6.9	15		3356
73	11489	<i>Paratya australiensis</i>	7440508	0.112	LC50/MOR//		LAB/F/S	4	13.2	6.5	15		3356
73	11490	<i>Paratya australiensis</i>	7440508	0.106	LC50/MOR//		LAB/F/S	6	11.9	6.9	15		3356
73	11491	<i>Paratya australiensis</i>	7440508	0.085	LC50/MOR//		LAB/F/S	6	13.5	6.7	15		3356

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
73	11492	<i>Paratya australiensis</i>	7440508	0.14	LC50/MOR//		LAB/F/S	6	12.7	6.9	15		3356
73	11493	<i>Paratya australiensis</i>	7440508	0.103	LC50/MOR//		LAB/F/S	6	13.2	6.5	15		3356
73	11494	<i>Paratya australiensis</i>	7440508	0.196	LC50/MOR//		LAB/R/S	4	14.7	6.91	15	conductivity	3357
73	15594	<i>Pteronarcys californicus</i>	7758987	12	LC50/MOR/INC/	naiads	LAB/F/C	14	50	7.1	6		10198
73	15595	<i>Pteronarcys californicus</i>	7758987	12	LC50/MOR/INC/	naiads, mature, immature 28-33 mm	LAB/F/C	6.83	30.5	6.655	6.15		14388
73	15596	<i>Pteronarcys californicus</i>	7758987	12	LC50/MOR/INC/	naiads, mature, immature 28-38 mm	LAB/F/C	6.83	30.5	6.655	6.15		14388
73	15597	<i>Pteronarcys californicus</i>	7758987	12	LETC/MOR/INC/	naiads, mature, immature 28-38 mm	LAB/F/C	6.83	30.5	6.655	6.15		14388
73	16309	<i>Pteronarcys californicus</i>	7758987	5.64	NR-ZERO/MOR/NEF/	naiads, 36-38 mm	LAB/F/C	11	31	6.93	3.7		14388
73	16310	<i>Pteronarcys californicus</i>	7758987	10.4	NR-ZERO/MOR/NEF/	female naiad	LAB/F/C	8	30	6.38	8		14388
74	Arthropods exposed to copper in soft water at <15degC over 1-3 days exposure												
74	13261	<i>Chironomus tentans</i>	7758987	0.327	LC50/ITX/INC/	3rd instar larvae	LAB/S/C	2	25	6.3	14		4553
74	13365	<i>Crangonyx pseudogracilis</i>	7758987	2.44	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	2	50	6.75	13	stock soln acidified with hno3	11972
74	13645	<i>Daphnia magna</i>	7758987	0.09	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
74	13646	<i>Daphnia magna</i>	7758987	0.07	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
74	13647	<i>Daphnia magna</i>	7758987	0.04	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
74	13754	<i>Daphnia pulex</i>	7758987	0.07	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
74	13755	<i>Daphnia pulex</i>	7758987	0.06	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
74	13756	<i>Daphnia pulex</i>	7758987	0.02	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
74	11482	<i>Paratya australiensis</i>	7440508	0.248	LC50/MOR//		LAB/F/S	2	11.9	6.9	15		3356
74	11483	<i>Paratya australiensis</i>	7440508	0.161	LC50/MOR//		LAB/F/S	2	13.5	6.7	15		3356
74	11484	<i>Paratya australiensis</i>	7440508	0.294	LC50/MOR//		LAB/F/S	2	12.7	6.9	15		3356
74	11485	<i>Paratya australiensis</i>	7440508	0.183	LC50/MOR//		LAB/F/S	2	13.2	6.5	15		3356
74	16307	<i>Pteronarcys californicus</i>	7758987	13.9	NR-LETH/MOR/INC/	naiads, 36-38 mm	LAB/F/C	2.92	31	6.93	3.7		14388
74	16308	<i>Pteronarcys californicus</i>	7758987	18.5	NR-LETH/MOR/INC/	naiads, mature, immature 28-33 mm	LAB/F/C	2	30	6.62	8.6		14388

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
75	Arthropods exposed to copper in soft water at >15degC over 3-30 days exposure												
75	16454	<i>Caridina</i>	7758987	0.013	/HIS//	2.5 cm	LAB/S/S	7	50	7.3	22		9811
75	13148	<i>Ceriodaphnia dubia</i>	7758987	0.0015	LC50/MOR/INC/	neonate	LAB/S/C	4	8	7.45	21.9	water-only	18527
75	13149	<i>Ceriodaphnia dubia</i>	7758987	0.0012	LC50/MOR/INC/	neonate	LAB/S/C	7	8	7.45	21.9	water-only	18527
75	13150	<i>Ceriodaphnia dubia</i>	7758987	0.0042	LC50/MOR/INC/	neonate	LAB/S/C	10	8	7.45	21.9	water-only	18527
75	13151	<i>Ceriodaphnia dubia</i>	7758987	0.0042	LC50/MOR/INC/	neonate	LAB/S/C	14	8	7.45	21.9	water-only	18527
75	13207	<i>Ceriodaphnia dubia</i>	7758987	0.0037	NOEC/MOR/INC/NOSIG	neonate	LAB/S/C	7	8	7.45	21.9	water only	18527
75	13208	<i>Ceriodaphnia dubia</i>	7758987	0.0141	NOEC/REP/DEC/NOSIG	neonate	LAB/S/C	7	8	7.45	21.9	water only	18527
75	13209	<i>Ceriodaphnia dubia</i>	7758987	0.0037	NOEC/MOR/INC/NOSIG	neonate	LAB/S/C	10	8	7.45	21.9	water only	18527
75	13210	<i>Ceriodaphnia dubia</i>	7758987	0.0096	NOEC/REP/DEC/NOSIG	neonate	LAB/S/C	10	8	7.45	21.9	water only	18527
75	13211	<i>Ceriodaphnia dubia</i>	7758987	0.0037	NOEC/MOR/INC/NOSIG	neonate	LAB/S/C	14	8	7.45	21.9	water only	18527
75	13212	<i>Ceriodaphnia dubia</i>	7758987	0.0032	NOEC/REP/DEC/NOSIG	neonate	LAB/S/C	14	8	7.45	21.9	water only	18527
75	11073	<i>Chironomus</i>	7440508	0.03	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
75	10464	<i>Chironomus tentans</i>	1344678	0.529	LC50/MOR//	fourth instar	LAB/F/S	12	30	7.4	19	16 h light	11404
75	13254	<i>Chironomus tentans</i>	7758987	0.0167	LC50/ITX//	1st instar larvae	LAB/S/I	4	42.7	^{7.6}	21		10645
75	13257	<i>Chironomus tentans</i>	7758987	0.211	LC50/ITX//	4th instar larvae	LAB/S/I	4	42.7	7.6	21		10645
75	13264	<i>Chironomus tentans</i>	7758987	0.63	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	4	8	7.45	21.9	water-only	18527
75	13265	<i>Chironomus tentans</i>	7758987	0.657	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	7	8	7.45	21.9	water-only	18527
75	13266	<i>Chironomus tentans</i>	7758987	1.502	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	10	8	7.45	21.9	water-only	18527
75	13267	<i>Chironomus tentans</i>	7758987	1.175	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	14	8	7.45	21.9	water-only	18527
75	13276	<i>Chironomus tentans</i>	7758987	0.054	LC50/MOR//	12 d, second instar larvae	LAB/F/U	10	45.5	7.9	22.2		8835
75	13277	<i>Chironomus tentans</i>	7758987	0.0229	NOEC/MOR/INC/NOSIG	second instar larvae, 10 d	LAB/S/C	10	8	7.45	21.9	water only	18527
75	13278	<i>Chironomus tentans</i>	7758987	0.0216	NOEC/GRO/DEC/NOSIG	second instar larvae, 10 d	LAB/S/C	10	8	7.45	21.9	water only	18527
75	10479	<i>Daphnia magna</i>	1344678	0.007	LC50/ITX//	<4 h	LAB/S/I	4	54	7.3	20		12311
75	10481	<i>Daphnia magna</i>	1344678	0.018	LC50/ITX//	<4 h	LAB/S/I	6	54	7.3	20		12311
75	12124	<i>Daphnia magna</i>	7447394	0.044	LC50/ITX//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
75	12125	<i>Daphnia magna</i>	7447394	0.035	EC50/REP//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
75	11296	<i>Gammarus</i>	7440508	0.91	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
75	11298	<i>Hyalella azteca</i>	7440508	0.028	LC50/MOR/INC/	7-14 d	LAB/L/C	10	45.5	7.65	22	keweenaw watershed sediment samples	13472

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
75	11778	<i>Hyalella azteca</i>	7440508	0.007	/MOR/CHG/	7-14 d	LAB/L/C	10	45.5	7.65	22	steilacoom lake sediment samples	13472
75	13972	<i>Hyalella azteca</i>	7758987	0.031	LC50/MOR/INC/	7-14 d	LAB/F/C	10	45.5	7.65	22		13472
75	13975	<i>Hyalella azteca</i>	7758987	0.0656	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	4	8	7.45	21.9	water-only	18527
75	13976	<i>Hyalella azteca</i>	7758987	0.0526	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	7	8	7.45	21.9	water-only	18527
75	13977	<i>Hyalella azteca</i>	7758987	0.0672	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	10	8	7.45	21.9	water-only	18527
75	13988	<i>Hyalella azteca</i>	7758987	0.0441	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	14	8	7.45	21.9	water only	18527
75	13993	<i>Hyalella azteca</i>	7758987	0.031	LC50/MOR//	7-14 d	LAB/F/S	10	45.5	7.9	22.2		8835
75	16755	<i>Macrobrachium kistnensis</i>	7758987	0.013	/HIS//	6 mm	LAB/S/S	7	50	7.3	22		9811
75	12225	<i>Moina irrasa</i>	7447394	0.0061	LC50/MOR/INC/	neonate, <24 h	LAB/S/	4	5	6.5	20		13762
75	12226	<i>Moina irrasa</i>	7447394	0.0075	LC50/MOR/INC/	neonate, <24 h	LAB/S/	4	5	8	20		13762
75	16900	<i>Paratanytarsus parthenogenetic</i>	7758987	0.32	/GRO//	larvae	LAB/S/I	7	25	7	23		15385
75	16901	<i>Paratanytarsus parthenogenetic</i>	7758987	0.64	/GRO//	larvae	LAB/S/I	7	25	7	23		15385
75	16292	<i>Procambarus clarkii</i>	7758987	5.5	/MOR/INC/	8-10 cm, adult	LAB//C	4	30.32	7.4	25		19305
75	12429	<i>Tanytarsus dissimilis</i>	7447394	0.0163	LC50/MOR//	2nd or 3rd instar eggs	LAB/S/U	10	46.8	7.5	22		5249
75	11606	<i>Trichoptera</i>	7440508	6.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
76	Arthropods exposed to copper in soft water at >15degC over 1-3 days exposure												
76	13108	<i>Caridina</i>	7758987	0.072	LC50/MOR//	2.5 cm	LAB/S/S	2	50	7.3	22		9811
76	13147	<i>Ceriodaphnia dubia</i>	7758987	0.0027	LC50/MOR/INC/	neonate	LAB/S/C	2	8	7.45	21.9	water-only	18527
76	16470	<i>Chironomus decorus</i>	7758987	0.516	/MOR//		LAB//U	3	60	7.575	21		2050
76	10465	<i>Chironomus tentans</i>	1344678	1.266	LC50/MOR//	fourth instar	LAB/F/S	2	26	7.4	19	16 h light	11404
76	10469	<i>Chironomus tentans</i>	1344678	0.608	LC50/MOR//	second instar	LAB/F/S	2	26	7.4	19	16 h light	11404
76	13263	<i>Chironomus tentans</i>	7758987	0.529	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	2	8	7.45	21.9	water-only	18527
76	16471	<i>Chironomus tentans</i>	7758987	3	/MOR//	egg	LAB/S/S	3	42.7	7.6	21	conductance 2.43 umhocm in reconstituted water	10645

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
76	16472	<i>Chironomus tentans</i>	7758987	5	/MOR//	egg	LAB/S/S	3	42.7	7.6	21	conductance 2.43 umhocrn in reconstituted water	10645
76	13281	<i>Chydorus sphaericus</i>	7758987	0.456	LC50/ITX/INC/	adult, >0.30 mm	LAB/S/S	2	11.7	6.48	18	organism from non polluted lake, mesotrophic level	4258
76	13282	<i>Chydorus sphaericus</i>	7758987	0.386	LC50/ITX/INC/	adult, >0.30 mm	LAB/S/S	2	10.5	6.41	18	organism from pristine lake, dystrophic level	4258
76	13284	<i>Chydorus sphaericus</i>	7758987	0.252	LC50/ITX/INC/	juvenile, <0.30 mm	LAB/S/S	2	10.5	6.41	18	organism from pristine lake, dystrophic level	4258
76	13492	<i>Daphnia ambigua</i>	7758987	12.4	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
76	10475	<i>Daphnia magna</i>	1344678	0.007	LC50/ITX//	<4 h	LAB/S/I	2	54	7.3	20		12311
76	10477	<i>Daphnia magna</i>	1344678	0.006	LC50/ITX//	<4 h	LAB/S/I	2	54	7.3	20		12311
76	10478	<i>Daphnia magna</i>	1344678	0.014	LC50/ITX//	<4 h	LAB/S/I	3	54	7.3	20		12311
76	10480	<i>Daphnia magna</i>	1344678	0.01	LC50/ITX//	<4 h	LAB/S/I	2	54	7.3	20		12311
76	12122	<i>Daphnia magna</i>	7447394	0.06	LC50/ITX//	12 h	LAB/S/I	2	45.3	7.74	18	see paper	2022
76	12123	<i>Daphnia magna</i>	7447394	0.0098	LC50/ITX//	12 h	LAB/S/I	2	45.3	7.74	18	see paper	2022
76	12135	<i>Daphnia magna</i>	7447394	0.026	LC50/MOR//	< 1 d	LAB/S/I	2	52	7.8	18.2	water parameters rpt	3621
76	13501	<i>Daphnia magna</i>	7758987	13.5	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
76	13502	<i>Daphnia magna</i>	7758987	25.2	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
76	13503	<i>Daphnia magna</i>	7758987	31.6	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
76	13504	<i>Daphnia magna</i>	7758987	13.5	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
76	13648	<i>Daphnia magna</i>	7758987	0.01	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
76	13649	<i>Daphnia magna</i>	7758987	0.007	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
76	13757	<i>Daphnia pulex</i>	7758987	0.01	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
76	13758	<i>Daphnia pulex</i>	7758987	0.056	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
76	11244	<i>Daphnia pulicaria</i>	7440508	0.0554	LC50/MOR//		LAB/S/I	2	31	6.66	18		5081
76	11245	<i>Daphnia pulicaria</i>	7440508	0.0553	LC50/MOR//		LAB/S/I	2	29	6.97	18		5081
76	11246	<i>Daphnia pulicaria</i>	7440508	0.0533	LC50/MOR//		LAB/S/I	2	28	7.2	18		5081
76	11252	<i>Daphnia pulicaria</i>	7440508	0.0355	LC50/MOR//		LAB/S/I	2	16	7.39	18		5081
76	11255	<i>Daphnia pulicaria</i>	7440508	0.0764	LC50/MOR//		LAB/S/I	2	26	7.24	18		5081
76	13974	<i>Hyalella azteca</i>	7758987	0.0722	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	2	8	7.45	21.9	water-only	18527
76	14255	<i>Macrobrachium kistnensis</i>	7758987	0.071	LC50/MOR//	6 mm	LAB/S/S	2	50	7.3	22		9811

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
76	12220	<i>Moina irrasa</i>	7447394	0.0081	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	20	13762
76	12222	<i>Moina irrasa</i>	7447394	0.0081	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	6.5	20	13762
76	12223	<i>Moina irrasa</i>	7447394	0.0126	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	8	20	13762
76	12231	<i>Moina irrasa</i>	7447394	0.0037	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	25	13762
76	12232	<i>Moina irrasa</i>	7447394	0.0118	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	8	25	13762
77	Arthropods exposed to copper in soft water at >15degC over <=1 day exposure											
77	10954	<i>Ceriodaphnia dubia</i>	7440508	0.005	IC50/REP/DEC/		LAB/S/C	1	20	6.95	25	45106
77	10955	<i>Ceriodaphnia dubia</i>	7440508	0.015	IC50/REP/DEC/		LAB/S/C	1	17	7	25	45106
77	11042	<i>Ceriodaphnia dubia</i>	7440508	0.006	LOEC/MOR/DEC/SIG		LAB/S/C	1	20	6.95	25	45106
77	11043	<i>Ceriodaphnia dubia</i>	7440508	0.006	LOEC/REP/DEC/SIG		LAB/S/C	1	20	6.95	25	45106
77	11044	<i>Ceriodaphnia dubia</i>	7440508	0.014	LOEC/REP/DEC/SIG		LAB/S/C	1	17	7	25	45106
77	11045	<i>Ceriodaphnia dubia</i>	7440508	0.037	LOEC/MOR/DEC/SIG		LAB/S/C	1	22	7	25	45106
77	11046	<i>Ceriodaphnia dubia</i>	7440508	0.005	MATC/REP/DEC/		LAB/S/C	1	20	6.95	25	45106
77	11047	<i>Ceriodaphnia dubia</i>	7440508	0.011	MATC/REP/DEC/		LAB/S/C	1	17	7	25	45106
77	11052	<i>Ceriodaphnia dubia</i>	7440508	0.004	NOEC/MOR/DEC/NOSIG		LAB/S/C	1	20	6.95	25	45106
77	11053	<i>Ceriodaphnia dubia</i>	7440508	0.004	NOEC/REP/DEC/NOSIG		LAB/S/C	1	20	6.95	25	45106
77	11054	<i>Ceriodaphnia dubia</i>	7440508	0.01	NOEC/REP/DEC/NOSIG		LAB/S/C	1	17	7	25	45106
77	11055	<i>Ceriodaphnia dubia</i>	7440508	0.019	NOEC/MOR/DEC/NOSIG		LAB/S/C	1	22	7	25	45106
77	11072	<i>Chironomus</i>	7440508	0.65	LC50/MOR//		LAB/S/I	1	50	7.6	17	2020
77	10476	<i>Daphnia magna</i>	1344678	0.01	LC50/ITX//	<4 h	LAB/S/I	1	54	7.3	20	12311
77	13653	<i>Daphnia magna</i>	7758987	0.01	LC50/MOR//		LAB/S/S	1	45	7.5	20	518
77	13654	<i>Daphnia magna</i>	7758987	0.01	LC50/MOR//		LAB/S/S	1	45	7.5	25	518
77	13752	<i>Daphnia pulex</i>	7758987	0.02	LC50/MOR//		LAB/S/S	1	45	7.5	20	518
77	13753	<i>Daphnia pulex</i>	7758987	0.01	LC50/MOR//		LAB/S/S	1	45	7.5	25	518
77	11295	<i>Gammarus</i>	7440508	1.2	LC50/MOR//		LAB/S/I	1	50	7.6	17	2020
77	12217	<i>Moina irrasa</i>	7447394	0.0081	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	20	13762
77	12218	<i>Moina irrasa</i>	7447394	0.0197	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	20	13762
77	12228	<i>Moina irrasa</i>	7447394	0.0062	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	25	13762
77	12229	<i>Moina irrasa</i>	7447394	0.0128	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	25	13762
77	12234	<i>Moina irrasa</i>	7447394	0.0029	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	30	13762
77	12235	<i>Moina irrasa</i>	7447394	0.0127	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	30	13762
77	12236	<i>Moina irrasa</i>	7447394	0.0059	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	20	13762
77	17088	<i>Streptocephalus proboscideus</i>	7758998	0.12	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	20	13328
77	17089	<i>Streptocephalus proboscideus</i>	7758998	0.17	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	20	13328
77	17093	<i>Streptocephalus proboscideus</i>	7758998	0.06	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	25	13328

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
77	17094	<i>Streptocephalus proboscideus</i>	7758998	0.11	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	25		13328
77	17098	<i>Streptocephalus proboscideus</i>	7758998	0.07	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	30		13328
77	17099	<i>Streptocephalus proboscideus</i>	7758998	0.077	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	30		13328
77	11605	<i>Trichoptera</i>	7440508	12.1	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
78	Invertebrates exposed to copper in hard water at >15degC over 1-3 days exposure												
78	11102	<i>Chironomus thummi</i>	7440508	1.2	LC50/MOR//	2nd instar larvae	LAB/R/I	2	151	7	20		5023
78	10397	<i>Daphnia magna</i>	1317380	0.025	LC50/ITX//	< 24 h	LAB/S/S	2	143	7.5	21.6	complete dilution water profile given	10917
78	11158	<i>Daphnia magna</i>	7440508	0.037	LC50/MOR//	<24 h	LAB/S/S	2	177	7.94	19		3522
78	11159	<i>Daphnia magna</i>	7440508	0.052	LC50/MOR//	<24 h	LAB/S/S	2	170	7.88	19		3522
78	11161	<i>Daphnia magna</i>	7440508	0.063	LC50/MOR//	<24 h	LAB/R/S	2	164	7.8	19		3522
78	11162	<i>Daphnia magna</i>	7440508	0.05	LC50/MOR//	<24 h	LAB/R/S	2	176	8	19		3522
78	11163	<i>Daphnia magna</i>	7440508	0.035	LC50/MOR//	<24 h	LAB/R/S	2	180	7.925	19		3522
78	11164	<i>Daphnia magna</i>	7440508	0.036	LC50/MOR//	<24 h	LAB/R/S	2	172	7.8	19		3522
78	11172	<i>Daphnia magna</i>	7440508	0.059	LC50/MOR//	<24 h	LAB/R/S	2	172	7.875	19		3522
78	11173	<i>Daphnia magna</i>	7440508	0.037	LC50/MOR//	<24 h	LAB/R/S	2	174	7.9	19		3522
78	11175	<i>Daphnia magna</i>	7440508	0.026	LC50/MOR//	<24 h	LAB/R/S	2	174	7.75	19		3522
78	13673	<i>Daphnia magna</i>	7758987	0.02	LC50/MOR//		LAB/F/S	2	125	7.4	21	see paper	15273
78	13706	<i>Daphnia magna</i>	7758987	0.0073	LC50/MOR/INC/		LAB/S/C	2	142	7.25	20.9	overlying water	18527
78	13710	<i>Daphnia magna</i>	7758987	0.17	LC50/MOR/INC/		LAB/S/C	2	142	7.25	20.9	pore water	18527
78	13768	<i>Daphnia pulex</i>	7758987	0.0824	LC50/MOR//	adult	LAB/S/S	2	127	7.9	20		7195
78	11253	<i>Daphnia pulicaria</i>	7440508	0.0788	LC50/MOR//		LAB/S/I	2	151	7.76	18		5081
78	13829	<i>Elimia livescens</i>	7758987	0.86	LC50/MOR//		LAB/S/S	2	154	7.8	23.5		6109
78	14209	<i>Lymnaea emarginata angulata</i>	7758987	0.86	LC50/MOR//		LAB/S/S	2	154	7.8	23.5		6109
78	15843	<i>Viviparus bengalensis</i>	7758987	0.27	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	2	180	7.4	27.3	conductivity 850(700-980) umcm	15716
78	15844	<i>Viviparus bengalensis</i>	7758987	0.12	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	3	180	7.4	27.3	conductivity 850(700-980) umcm	15716
79	Invertebrates exposed to copper in moderately hard water at >15degC over 3-30 days exposure												
79	10541	<i>Biomphalaria glabrata</i>	3251238	0.04	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	4	100	7.6	20		5268
79	11627	<i>Brachionus calyciflorus</i>	7440508	0.0073	/MOR/INC/		LAB/R/S	5	90	7.6	22		4329

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
79	11628	<i>Brachionus calyciflorus</i>	7440508	0.02	/MOR/INC/		LAB/R/S	5	90	7.6	22		4329
79	11839	<i>Brachionus calyciflorus</i>	7440508	0.0073	/POP/DEC/		LAB/R/S	5	90	7.6	22		4329
79	11630	<i>Ceriodaphnia dubia</i>	7440508	0.015	/REP/DEC/MULT	neonates, 12-24 h	LAB/R/C	7	97.6	7.5	25	water from new river, virginia	8661
79	11631	<i>Ceriodaphnia dubia</i>	7440508	0.03	/REP/DEC/MULT	neonates, 12-24 h	LAB/R/C	7	113.6	7.5	25	water from amy bayou louisiana	8661
79	13129	<i>Ceriodaphnia dubia</i>	7758987	0.005	IC50/REP/DEC/	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13130	<i>Ceriodaphnia dubia</i>	7758987	0.0047	IC50/REP/DEC/	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13131	<i>Ceriodaphnia dubia</i>	7758987	0.0082	IC50/REP/DEC/	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13132	<i>Ceriodaphnia dubia</i>	7758987	0.0081	IC50/REP/DEC/	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13133	<i>Ceriodaphnia dubia</i>	7758987	0.0177	IC50/REP/DEC/	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13134	<i>Ceriodaphnia dubia</i>	7758987	0.0176	IC50/REP/DEC/	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13135	<i>Ceriodaphnia dubia</i>	7758987	0.0263	IC50/REP/DEC/	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335
79	13136	<i>Ceriodaphnia dubia</i>	7758987	0.0287	IC50/REP/DEC/	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335
79	13139	<i>Ceriodaphnia dubia</i>	7758987	0.0085	LC50/MOR/INC/	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13140	<i>Ceriodaphnia dubia</i>	7758987	0.0085	LC50/MOR/INC/	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13141	<i>Ceriodaphnia dubia</i>	7758987	0.0108	LC50/MOR/INC/	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13142	<i>Ceriodaphnia dubia</i>	7758987	0.0108	LC50/MOR/INC/	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13143	<i>Ceriodaphnia dubia</i>	7758987	0.0396	LC50/MOR/INC/	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13144	<i>Ceriodaphnia dubia</i>	7758987	0.039	LC50/MOR/INC/	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13145	<i>Ceriodaphnia dubia</i>	7758987	0.0469	LC50/MOR/INC/	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335
79	13146	<i>Ceriodaphnia dubia</i>	7758987	0.0463	LC50/MOR/INC/	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
79	13153	<i>Ceriodaphnia dubia</i>	7758987	0.0091	LC50/MOR/INC/	neonate	LAB/S/C	4	64	7.25	20.9	overlying water	18527
79	13154	<i>Ceriodaphnia dubia</i>	7758987	0.0066	LC50/MOR/INC/	neonate	LAB/S/C	7	64	7.25	20.9	overlying water	18527
79	13155	<i>Ceriodaphnia dubia</i>	7758987	0.0066	LC50/MOR/INC/	neonate	LAB/S/C	10	64	7.25	20.9	overlying water	18527
79	13157	<i>Ceriodaphnia dubia</i>	7758987	0.1217	LC50/MOR/INC/	neonate	LAB/S/C	4	64	7.25	20.9	pore water	18527
79	13158	<i>Ceriodaphnia dubia</i>	7758987	0.1179	LC50/MOR/INC/	neonate	LAB/S/C	7	64	7.25	20.9	pore water	18527
79	13159	<i>Ceriodaphnia dubia</i>	7758987	0.1179	LC50/MOR/INC/	neonate	LAB/S/C	10	64	7.25	20.9	pore water	18527
79	13160	<i>Ceriodaphnia dubia</i>	7758987	0.0066	LC50/MOR/INC/	neonate	LAB/S/C	14	64	7.25	20.9	overlying water	18527
79	13161	<i>Ceriodaphnia dubia</i>	7758987	0.1179	LC50/MOR/INC/	neonate	LAB/S/C	14	64	7.25	20.9	pore water	18527
79	13165	<i>Ceriodaphnia dubia</i>	7758987	0.01	LOEC/MOR/INC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13166	<i>Ceriodaphnia dubia</i>	7758987	0.01	LOEC/MOR/INC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13167	<i>Ceriodaphnia dubia</i>	7758987	0.01	LOEC/REP/DEC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13168	<i>Ceriodaphnia dubia</i>	7758987	0.01	LOEC/REP/DEC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13169	<i>Ceriodaphnia dubia</i>	7758987	0.02	LOEC/MOR/INC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13170	<i>Ceriodaphnia dubia</i>	7758987	0.02	LOEC/MOR/INC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13171	<i>Ceriodaphnia dubia</i>	7758987	0.01	LOEC/REP/DEC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13172	<i>Ceriodaphnia dubia</i>	7758987	0.01	LOEC/REP/DEC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13173	<i>Ceriodaphnia dubia</i>	7758987	0.03	LOEC/MOR/INC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13174	<i>Ceriodaphnia dubia</i>	7758987	0.03	LOEC/MOR/INC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13175	<i>Ceriodaphnia dubia</i>	7758987	0.02	LOEC/REP/DEC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13176	<i>Ceriodaphnia dubia</i>	7758987	0.02	LOEC/REP/DEC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13177	<i>Ceriodaphnia dubia</i>	7758987	0.05	LOEC/MOR/INC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335
79	13178	<i>Ceriodaphnia dubia</i>	7758987	0.05	LOEC/MOR/INC/	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335
79	13179	<i>Ceriodaphnia dubia</i>	7758987	0.03	LOEC/REP/DEC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
79	13180	<i>Ceriodaphnia dubia</i>	7758987	0.03	LOEC/REP/DEC/SIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335
79	13191	<i>Ceriodaphnia dubia</i>	7758987	0.005	NOEC/MOR/INC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13192	<i>Ceriodaphnia dubia</i>	7758987	0.005	NOEC/MOR/INC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13193	<i>Ceriodaphnia dubia</i>	7758987	0.005	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13194	<i>Ceriodaphnia dubia</i>	7758987	0.01	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of selenastrum	16335
79	13195	<i>Ceriodaphnia dubia</i>	7758987	0.01	NOEC/MOR/INC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13196	<i>Ceriodaphnia dubia</i>	7758987	0.01	NOEC/MOR/INC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13197	<i>Ceriodaphnia dubia</i>	7758987	0.005	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13198	<i>Ceriodaphnia dubia</i>	7758987	0.005	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of chlamydomonas	16335
79	13199	<i>Ceriodaphnia dubia</i>	7758987	0.02	NOEC/MOR/INC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13200	<i>Ceriodaphnia dubia</i>	7758987	0.02	NOEC/MOR/INC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13201	<i>Ceriodaphnia dubia</i>	7758987	0.01	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13202	<i>Ceriodaphnia dubia</i>	7758987	0.01	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food and selenastrum	16335
79	13203	<i>Ceriodaphnia dubia</i>	7758987	0.04	NOEC/MOR/INC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335
79	13204	<i>Ceriodaphnia dubia</i>	7758987	0.04	NOEC/MOR/INC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335
79	13205	<i>Ceriodaphnia dubia</i>	7758987	0.02	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335
79	13206	<i>Ceriodaphnia dubia</i>	7758987	0.02	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	7	85	7.6	23	diet of yeast-cerophyll trout food	16335
79	13213	<i>Ceriodaphnia dubia</i>	7758987	0.0799	NOEC/MOR/INC/NOSIG	neonate	LAB/S/C	7	64	7.25	20.9	pore water	18527
79	13214	<i>Ceriodaphnia dubia</i>	7758987	0.163	NOEC/REP/DEC/NOSIG	neonate	LAB/S/C	7	64	7.25	20.9	pore water	18527
79	13215	<i>Ceriodaphnia dubia</i>	7758987	0.0799	NOEC/MOR/INC/NOSIG	neonate	LAB/S/C	10	64	7.25	20.9	pore water	18527
79	13216	<i>Ceriodaphnia dubia</i>	7758987	0.132	NOEC/REP/DEC/NOSIG	neonate	LAB/S/C	10	64	7.25	20.9	pore water	18527
79	13217	<i>Ceriodaphnia dubia</i>	7758987	0.0799	NOEC/MOR/INC/NOSIG	neonate	LAB/S/C	14	64	7.25	20.9	pore water	18527

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
79	13218	<i>Ceriodaphnia dubia</i>	7758987	0.0489	NOEC/REP/DEC/NOSIG	neonate	LAB/S/C	14	64	7.25	20.9	pore water	18527
79	10462	<i>Chironomus tentans</i>	1344678	1.69	LC50/MOR//	fourth instar	LAB/F/S	4	84	7.4	20	16 h light	11404
79	10466	<i>Chironomus tentans</i>	1344678	1.446	LC50/MOR//	third instar	LAB/F/S	4	84	7.4	20	16 h light	11404
79	10467	<i>Chironomus tentans</i>	1344678	1.2	LC50/MOR//	third instar	LAB/F/S	4	71	7.4	20	16 h light	11404
79	10468	<i>Chironomus tentans</i>	1344678	0.773	LC50/MOR//	second instar	LAB/F/S	4	84	7.4	20	16 h light	11404
79	10470	<i>Chironomus tentans</i>	1344678	0.298	LC50/MOR//	first instar	LAB/R/S	4	71	7.4	20	16 h light	11404
79	13255	<i>Chironomus tentans</i>	7758987	0.0365	LC50/ITX//	1st instar larvae	LAB/S/I	4	109.6	7.8	21		10645
79	13258	<i>Chironomus tentans</i>	7758987	0.977	LC50/ITX//	4th instar larvae	LAB/S/I	4	109.6	7.8	21		10645
79	13269	<i>Chironomus tentans</i>	7758987	0.0571	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	4	64	7.25	20.9	overlying water	18527
79	13270	<i>Chironomus tentans</i>	7758987	0.0494	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	7	64	7.25	20.9	overlying water	18527
79	13271	<i>Chironomus tentans</i>	7758987	0.0363	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	10	64	7.25	20.9	overlying water	18527
79	13273	<i>Chironomus tentans</i>	7758987	0.135	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	4	64	7.25	20.9	pore water	18527
79	13274	<i>Chironomus tentans</i>	7758987	0.1069	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	7	64	7.25	20.9	pore water	18527
79	13275	<i>Chironomus tentans</i>	7758987	0.0615	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	10	64	7.25	20.9	pore water	18527
79	13279	<i>Chironomus tentans</i>	7758987	0.0361	NOEC/MOR/INC/NOSIG	second instar larvae, 10 d	LAB/S/C	10	64	7.25	20.9	pore water	18527
79	13280	<i>Chironomus tentans</i>	7758987	0.0163	NOEC/GRO/DEC/NOSIG	second instar larvae, 10 d	LAB/S/C	10	64	7.25	20.9	pore water	18527
79	11763	<i>Daphnia magna</i>	7440508	0.02	/MOR/NEF/		LAB/R/S	5	90	7.6	22		4329
79	13703	<i>Daphnia magna</i>	7758987	0.0101	LC50/MOR/INC/		LAB/S/C	4	76	7.45	21.9	water-only	18527
79	13704	<i>Daphnia magna</i>	7758987	0.0106	LC50/MOR/INC/		LAB/S/C	7	76	7.45	21.9	water-only	18527
79	13705	<i>Daphnia magna</i>	7758987	0.0095	LC50/MOR/INC/		LAB/S/C	10	76	7.45	21.9	water-only	18527
79	13714	<i>Daphnia magna</i>	7758987	0.0095	LC50/MOR/INC/		LAB/S/C	14	76	7.45	21.9	water only	18527
79	13942	<i>Gyraulius circumstriatus</i>	7758987	0.425	LC50/MOR//		LAB/I	4	100	7.85	21		2050
79	13979	<i>Hyalella azteca</i>	7758987	0.0472	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	4	64	7.25	20.9	overlying water	18527
79	13980	<i>Hyalella azteca</i>	7758987	0.0424	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	7	64	7.25	20.9	overlying water	18527
79	13981	<i>Hyalella azteca</i>	7758987	0.0352	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	10	64	7.25	20.9	overlying water	18527
79	13982	<i>Hyalella azteca</i>	7758987	0.0305	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	14	64	7.25	20.9	overlying water	18527

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
79	13984	<i>Hyalella azteca</i>	7758987	0.674	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	4	64	7.25	20.9	pore water	18527
79	13985	<i>Hyalella azteca</i>	7758987	0.638	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	7	64	7.25	20.9	pore water	18527
79	13986	<i>Hyalella azteca</i>	7758987	0.584	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	10	64	7.25	20.9	pore water	18527
79	13987	<i>Hyalella azteca</i>	7758987	0.545	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	14	64	7.25	20.9	pore water	18527
79	14009	<i>Hydra vulgaris</i>	7758987	0.04	LC50/MOR/INC/	polyps, budding, non-budding	LAB//C	4	108	7.5	20		18616
79	14174	<i>Limnodrilus hoffmeisteri</i>	7758987	0.4	LC50/MOR//		LAB//I	4	100	7.85	21		2050
79	16240	<i>Orconectes rusticus</i>	7758987	1	NR-LETH/MOR//	intermolt adult, 30-35 mm	LAB/F/I	16	112.5	7.95	20		2058
79	16241	<i>Orconectes rusticus</i>	7758987	1	NR-LETH/MOR//	juvenile, 10-11 mm	LAB/F/I	6	112.5	7.95	20		2058
79	16892	<i>Orconectes rusticus</i>	7758987	0.0375	/GRO//	newly hatched	LAB/F/S	30	112.5	7.95	20		2058
79	16893	<i>Orconectes rusticus</i>	7758987	0.265	/MOR//	embryo	LAB/F/S	13.5	112.5	7.95	20		2058
79	14660	<i>Philodina acuticornis</i>	7758987	1.1	LC50/ITX/INC/		LAB/S/C	4	81	7.6	20		2019
79	14661	<i>Philodina acuticornis</i>	7758987	1.1	LC50/ITX/INC/		LAB/S/C	4	81	7.6	20		2019
79	14683	<i>Physa heterostropha</i>	7758987	0.069	LC50/MOR//	adult, 12-15 mm	LAB//I	4	100	7.8	21		3692
79	14687	<i>Physa heterostropha</i>	7758987	0.013	LC50/MOR//	young, 3-6 mm	LAB//I	4	100	7.8	21		3692
79	14691	<i>Physa heterostropha</i>	7758987	0.053	LC50/MOR//	young, 3-6 mm	LAB//I	4	100	7.8	21	uncooked wheatena present in dilution water as organic	3692
80	<i>Invertebrates exposed to copper in moderately hard water at >15degC over 1-3 days exposure</i>												
80	10539	<i>Biomphalaria glabrata</i>	3251238	0.06	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	2	100	7.6	20		5268
80	10540	<i>Biomphalaria glabrata</i>	3251238	0.05	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	3	100	7.6	20		5268
80	11838	<i>Brachionus calyciflorus</i>	7440508	0.0113	/FDB/DEC/		LAB/R/S	3	90	7.6	22		4329
80	10996	<i>Ceriodaphnia dubia</i>	7440508	0.014	LC50/MOR/INC/	neonates	LAB/R/	2	97.6	6	25	water from new river, virginia	8661
80	10997	<i>Ceriodaphnia dubia</i>	7440508	0.028	LC50/MOR/INC/	neonates	LAB/R/	2	97.6	8	25	water from new river, virginia	8661
80	11002	<i>Ceriodaphnia dubia</i>	7440508	0.052	LC50/MOR/INC/	neonates	LAB/R/	2	113.6	6	25	water from amy bayou louisiana	8661

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
80	11003	<i>Ceriodaphnia dubia</i>	7440508	0.076	LC50/MOR/INC/	neonates	LAB/R/	2	113.6	8	25	water from amy bayou louisiana	8661
80	13152	<i>Ceriodaphnia dubia</i>	7758987	0.0062	LC50/MOR/INC/	neonate	LAB/S/C	2	64	7.25	20.9	overlying water	18527
80	13156	<i>Ceriodaphnia dubia</i>	7758987	0.084	LC50/MOR/INC/	neonate	LAB/S/C	2	64	7.25	20.9	pore water	18527
80	13268	<i>Chironomus tentans</i>	7758987	0.323	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	2	64	7.25	20.9	overlying water	18527
80	13272	<i>Chironomus tentans</i>	7758987	5.82	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	2	64	7.25	20.9	pore water	18527
80	13283	<i>Chydorus sphaericus</i>	7758987	0.214	LC50/ITX/INC/	adult >0.30 mm	LAB/S/S	2	83.6	6.66	18	organism from polluted lake, eutrophic level	4258
80	13285	<i>Chydorus sphaericus</i>	7758987	0.194	LC50/ITX/INC/	juvenile, <0.30 mm	LAB/S/S	2	83.6	6.66	18	organism from polluted lake, eutrophic level	4258
80	11885	<i>Daphnia magna</i>	7440508	0.0113	/FDB/DEC/		LAB/R/S	3	90	7.6	22		4329
80	12136	<i>Daphnia magna</i>	7447394	0.03	LC50/MOR//	< 1 d	LAB/S/I	2	105	7.9	20.3	water parameters rpt	3621
80	13702	<i>Daphnia magna</i>	7758987	0.0113	LC50/MOR/INC/		LAB/S/C	2	76	7.45	21.9	water-only	18527
80	13717	<i>Daphnia magna</i>	7758987	0.0154	LC50/MOR/INC/	neonates, clone c	LAB/S/C	2	90.7	7.73	20		19146
80	13718	<i>Daphnia magna</i>	7758987	0.0032	LC50/MOR/INC/	neonates, clone f	LAB/S/C	2	90.7	7.73	20		19146
80	13731	<i>Daphnia magna</i>	7758987	0.34	LC50/MOR//	6-24 h, neonate	LAB/I	2	90	7.6	25		9597
80	11247	<i>Daphnia pulicaria</i>	7440508	0.0972	LC50/MOR//		LAB/S/I	2	88	7.01	18		5081
80	11248	<i>Daphnia pulicaria</i>	7440508	0.199	LC50/MOR//		LAB/S/I	2	100	7.55	18		5081
80	11249	<i>Daphnia pulicaria</i>	7440508	0.627	LC50/MOR//		LAB/S/I	2	86	7.25	18		5081
80	11250	<i>Daphnia pulicaria</i>	7440508	0.213	LC50/MOR//		LAB/S/I	2	82	6.99	18		5081
80	11251	<i>Daphnia pulicaria</i>	7440508	0.165	LC50/MOR//		LAB/S/I	2	84	7.01	18		5081
80	11256	<i>Daphnia pulicaria</i>	7440508	0.0847	LC50/MOR//		LAB/S/I	2	84	7.08	18		5081
80	11257	<i>Daphnia pulicaria</i>	7440508	0.184	LC50/MOR//		LAB/S/I	2	92	7.22	18		5081
80	11258	<i>Daphnia pulicaria</i>	7440508	0.24	LC50/MOR//		LAB/S/I	2	106	7.44	18		5081
80	13940	<i>Gyraulius circumstriatus</i>	7758987	10	LC50/MOR//		LAB/I	2	100	7.85	21		2050
80	13941	<i>Gyraulius circumstriatus</i>	7758987	10	LC50/MOR//		LAB/I	3	100	7.85	21		2050
80	13978	<i>Hyalella azteca</i>	7758987	0.059	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	2	64	7.25	20.9	overlying water	18527
80	13983	<i>Hyalella azteca</i>	7758987	0.754	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	2	64	7.25	20.9	pore water	18527
80	14003	<i>Hydra vulgaris</i>	7758987	0.01	EC50/FDB/DEC/	polyps, budding, non-budding	LAB/R/C	2	108	7.45	20		18616

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
80	14007	<i>Hydra vulgaris</i>	7758987	0.19	LC50/MOR/INC/	polyps, budding, non-budding	LAB//C	2	108	7.5	20		18616
80	14008	<i>Hydra vulgaris</i>	7758987	0.08	LC50/MOR/INC/	polyps, budding, non-budding	LAB//C	3	108	7.5	20		18616
80	14172	<i>Limnodrilus hoffmeisteri</i>	7758987	0.59	LC50/MOR//		LAB//I	2	100	7.85	21		2050
80	14173	<i>Limnodrilus hoffmeisteri</i>	7758987	0.42	LC50/MOR//		LAB//I	3	100	7.85	21		2050
80	16891	<i>Orconectes rusticus</i>	7758987	12	/MOR//	intermolt adult, 30-35 mm	LAB/F/S	2.5	112.5	7.95	20		2058
80	14659	<i>Philodina acuticornis</i>	7758987	5.8	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
80	14662	<i>Philodina acuticornis</i>	7758987	5.4	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
80	14681	<i>Physa heterostropha</i>	7758987	0.069	LC50/MOR//	adult, 12-15 mm	LAB//I	2	100	7.8	21		3692
80	14682	<i>Physa heterostropha</i>	7758987	0.069	LC50/MOR//	adult, 12-15 mm	LAB//I	3	100	7.8	21		3692
80	14685	<i>Physa heterostropha</i>	7758987	0.013	LC50/MOR//	young, 3-6 mm	LAB//I	2	100	7.8	21		3692
80	14686	<i>Physa heterostropha</i>	7758987	0.013	LC50/MOR//	young, 3-6 mm	LAB//I	3	100	7.8	21		3692
80	14689	<i>Physa heterostropha</i>	7758987	0.053	LC50/MOR//	young, 3-6 mm	LAB//I	2	100	7.8	21	uncooked wheatena present in dilution water as organic	3692
80	14690	<i>Physa heterostropha</i>	7758987	0.053	LC50/MOR//	young, 3-6 mm	LAB//I	3	100	7.8	21	uncooked wheatena present in dilution water as organic	3692
81	<i>Invertebrates exposed to copper in moderately hard water at >15degC over <=1 day exposure</i>												
81	10536	<i>Biomphalaria glabrata</i>	3251238	0.14	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	0.33	100	7.6	20		5268
81	10537	<i>Biomphalaria glabrata</i>	3251238	0.09	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	0.75	100	7.6	20		5268
81	10538	<i>Biomphalaria glabrata</i>	3251238	0.08	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	1	100	7.6	20		5268
81	12922	<i>Brachionus calyciflorus</i>	7758987	0.0282	EC50/BEH/DEC/	neonates	LAB/S/C	0.09	90	7.6	23.5		20070
81	12923	<i>Brachionus calyciflorus</i>	7758987	0.0208	EC50/BEH/DEC/	neonates	LAB/S/C	0.09	90	7.6	23.5		20070
81	12924	<i>Brachionus calyciflorus</i>	7758987	0.0242	EC50/BEH/DEC/	neonates	LAB/S/C	0.26	90	7.6	23.5		20070

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
81	12925	<i>Brachionus calyciflorus</i>	7758987	0.0323	EC50/BEH/DEC/	neonates	LAB/S/C	0.26	90	7.6	23.5		20070
81	12936	<i>Brachionus calyciflorus</i>	7758987	0.38	LC50/MOR//	6-24 h, neonate	LAB/S/I	1	90	7.6	25		9597
81	12937	<i>Brachionus calyciflorus</i>	7758987	0.076	LC50/MOR//	6-24 h, neonate	LAB/S/I	1	90	7.6	25		9597
81	15960	<i>Brachionus calyciflorus</i>	7758987	0.0138	/BEH/CHG/MULT	neonates	LAB/S/C	0.13	90	7.6	23.5		20070
81	16425	<i>Brachionus calyciflorus</i>	7758987	0.0138	/MOR/INC/	neonates	LAB/S/C	0.13	90	7.6	23.5		20070
81	13004	<i>Brachionus rubens</i>	7758987	0.019	LC50/MOR//	neonate, female, 136 um x 89 um	LAB/S/S	1	90	7.6	25		310
81	13005	<i>Brachionus rubens</i>	7758987	0.0094	NOEC/MOR//	neonate, female, 136 um x 89 um	LAB/S/S	1	90	7.6	25		310
81	13006	<i>Brachionus rubens</i>	7758987	0.0094	NOEC/MOR//	neonate, female, 136 um x 89 um	LAB/S/S	1	90	7.6	25		310
81	10635	<i>Daphnia magna</i>	3251238	0.05	LC50/ITX//	adult, 1 mm	LAB/S/I	1	100	7.8	20		5268
81	13663	<i>Daphnia magna</i>	7758987	0.0354	LC50/MOR//	24 h	LAB/S/I	1	70	7.65	21		5718
81	13939	<i>Gyraulid circumstriatus</i>	7758987	1	LC50/MOR//		LAB/I	1	100	7.85	21		2050
81	14006	<i>Hydra vulgaris</i>	7758987	0.41	LC50/MOR/INC/	polyps, budding, non-budding	LAB/C	1	108	7.5	20		18616
81	16685	<i>Ichthyophthirius multifiliis</i>	7758987	0.155	/MOR/INC/		LAB/S/	1	76.4	7.1	29		4930
81	14067	<i>Lampsilis fasciola</i>	7758987	0.046	LC50/MOR/INC/	glochidia	LAB/S/C	1	75	7.9	20		18130
81	14171	<i>Limnodrilus hoffmeisteri</i>	7758987	3.8	LC50/MOR//		LAB/I	1	100	7.85	21		2050
81	14658	<i>Philodina acuticornis</i>	7758987	5.8	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019
81	14663	<i>Philodina acuticornis</i>	7758987	6.4	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019
81	14680	<i>Physa heterostropha</i>	7758987	0.143	LC50/MOR//	adult, 12-15 mm	LAB/I	1	100	7.8	21		3692
81	14684	<i>Physa heterostropha</i>	7758987	0.034	LC50/MOR//	young, 3-6 mm	LAB/I	1	100	7.8	21		3692
81	14688	<i>Physa heterostropha</i>	7758987	0.143	LC50/MOR//	young, 3-6 mm	LAB/I	1	100	7.8	21	uncooked wheatena present in dilution water as organic	3692
81	15719	<i>Streptocephalus proboscideus</i>	7758987	0.7	LC50/MOR/INC/	instar i larvae	LAB/S/C	0.25	90	7.9	20		14250

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
81	15720	<i>Streptocephalus proboscideus</i>	7758987	0.35	LC50/MOR/INC/	instar i larvae	LAB/S/C	1	90	7.9	20		14250
81	15721	<i>Streptocephalus proboscideus</i>	7758987	0.66	LC50/MOR/INC/	instar i larvae	LAB/S/C	0.25	90	7.9	25		14250
81	15722	<i>Streptocephalus proboscideus</i>	7758987	0.29	LC50/MOR/INC/	instar i larvae	LAB/S/C	1	90	7.9	25		14250
81	15723	<i>Streptocephalus proboscideus</i>	7758987	0.36	LC50/MOR/INC/	instar ii-iii larvae	LAB/S/C	0.25	90	7.9	20		14250
81	15724	<i>Streptocephalus proboscideus</i>	7758987	0.23	LC50/MOR/INC/	instar ii-iii larvae	LAB/S/C	1	90	7.9	20		14250
81	15725	<i>Streptocephalus proboscideus</i>	7758987	0.35	LC50/MOR/INC/	instar ii-iii larvae	LAB/S/C	0.25	90	7.9	25		14250
81	15726	<i>Streptocephalus proboscideus</i>	7758987	0.21	LC50/MOR/INC/	instar ii-iii larvae	LAB/S/C	1	90	7.9	25		14250
81	15727	<i>Streptocephalus proboscideus</i>	7758987	0.21	LC50/MOR/INC/	nauplii	LAB/S/C	1	90	7.9	25	harvested nauplii 18 h after cyst incubation	14250
81	15728	<i>Streptocephalus proboscideus</i>	7758987	0.2	LC50/MOR/INC/	nauplii	LAB/S/C	1	90	7.9	25	harvested nauplii 20 h after cyst incubation	14250
81	15729	<i>Streptocephalus proboscideus</i>	7758987	0.19	LC50/MOR/INC/	nauplii	LAB/S/C	1	90	7.9	25	harvested nauplii 24 h after cyst incubation	14250
81	15730	<i>Streptocephalus proboscideus</i>	7758987	0.21	LC50/MOR/INC/	nauplii	LAB/S/C	1	90	7.9	25	harvested nauplii 26 h after cyst incubation	14250
81	15731	<i>Streptocephalus proboscideus</i>	7758987	0.23	LC50/MOR/INC/	nauplii	LAB/S/C	1	90	7.9	25	harvested nauplii 28 h after cyst incubation	14250
81	15732	<i>Streptocephalus proboscideus</i>	7758987	0.33	LC50/MOR/INC/	nauplii	LAB/S/C	1	90	7.9	25	harvested nauplii 30 h after cyst incubation	14250
81	15733	<i>Streptocephalus proboscideus</i>	7758987	0.15	LC50/MOR/INC/	instar ii-iii larvae	LAB/S/C	1	90	7.9	25		14250
81	17090	<i>Streptocephalus proboscideus</i>	7758998	0.21	LC50/MOR/INC/	nauplii	LAB/S/K	1	90.5	7.7	20		13328
81	17095	<i>Streptocephalus proboscideus</i>	7758998	0.2	LC50/MOR/INC/	nauplii	LAB/S/K	1	90.5	7.7	25		13328
81	17100	<i>Streptocephalus proboscideus</i>	7758998	0.18	LC50/MOR/INC/	nauplii	LAB/S/K	1	90.5	7.7	30		13328

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
81	17103	<i>Streptocephalus proboscideus</i>	7758998	0.14	LC50/MOR/INC/	nauplii	LAB/S/K	1	90.5	6	25		13328
81	17104	<i>Streptocephalus proboscideus</i>	7758998	0.24	LC50/MOR/INC/	nauplii	LAB/S/K	1	90.5	7.7	25		13328
82	Invertebrates exposed to copper in soft water at <15degC over 3-30 days exposure												
82	12830	<i>Asellus aquaticus</i>	7758987	9.21	LC50/ITX//	adult, 7 mm, 1.5 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
82	13054	<i>Campeloma decisum</i>	7758987	1.7	LC50/ITX//		LAB/F/I	4	45	7.62	15		967
82	10460	<i>Chironomus tentans</i>	1344678	0.0775	LC50/MOR//	fourth instar, adult emr	LAB/F/U	20	36	7.4	15	16 h light	11404
82	10461	<i>Chironomus tentans</i>	1344678	0.0775	LC50/MOR//	fourth instar	LAB/F/U	20	36	7.4	15	16 h light	11404
82	10463	<i>Chironomus tentans</i>	1344678	0.467	LC50/MOR//	fourth instar	LAB/F/S	4	36	7.4	15	16 h light	11404
82	13366	<i>Crangonyx pseudogracilis</i>	7758987	1.29	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
82	13821	<i>Drunella grandis</i>	7758987	0.19	LC50/MOR/INC/	naiads, <0.01 g	LAB/F/C	14	50	7.1	6		10198
82	13919	<i>Gammarus pseudolimnaeus</i>	7758987	0.02	LC50/ITX//		LAB/F/I	4	45	7.62	15		967
82	11477	<i>Paratya australiensis</i>	7440508	0.141	LC50/MOR//		LAB/R/S	4	16	6.79	15	conductivity	3357
82	11478	<i>Paratya australiensis</i>	7440508	0.238	LC50/MOR//		LAB/R/S	4	16.4	6.7	15	conductivity	3357
82	11479	<i>Paratya australiensis</i>	7440508	0.108	LC50/MOR//		LAB/R/S	4	17.5	7	15	conductivity	3357
82	11480	<i>Paratya australiensis</i>	7440508	0.184	LC50/MOR//		LAB/R/S	4	15.6	7.04	15	conductivity	3357
82	11481	<i>Paratya australiensis</i>	7440508	0.317	LC50/MOR//		LAB/R/S	4	14.1	6.73	15	conductivity	3357
82	11486	<i>Paratya australiensis</i>	7440508	0.12	LC50/MOR//		LAB/F/S	4	11.9	6.9	15		3356
82	11487	<i>Paratya australiensis</i>	7440508	0.099	LC50/MOR//		LAB/F/S	4	13.5	6.7	15		3356
82	11488	<i>Paratya australiensis</i>	7440508	0.178	LC50/MOR//		LAB/F/S	4	12.7	6.9	15		3356
82	11489	<i>Paratya australiensis</i>	7440508	0.112	LC50/MOR//		LAB/F/S	4	13.2	6.5	15		3356
82	11490	<i>Paratya australiensis</i>	7440508	0.106	LC50/MOR//		LAB/F/S	6	11.9	6.9	15		3356
82	11491	<i>Paratya australiensis</i>	7440508	0.085	LC50/MOR//		LAB/F/S	6	13.5	6.7	15		3356

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
82	11492	<i>Paratya australiensis</i>	7440508	0.14	LC50/MOR//		LAB/F/S	6	12.7	6.9	15		3356
82	11493	<i>Paratya australiensis</i>	7440508	0.103	LC50/MOR//		LAB/F/S	6	13.2	6.5	15		3356
82	11494	<i>Paratya australiensis</i>	7440508	0.196	LC50/MOR//		LAB/R/S	4	14.7	6.91	15	conductivity	3357
82	14700	<i>Physa integra</i>	7758987	0.039	LC50/ITX//		LAB/F/I	4	45	7.62	15		967
82	15594	<i>Pteronarcys californicus</i>	7758987	12	LC50/MOR/INC/	naiads	LAB/F/C	14	50	7.1	6		10198
82	15595	<i>Pteronarcys californicus</i>	7758987	12	LC50/MOR/INC/	naiads, mature, immature 28-33 mm	LAB/F/C	6.83	30.5	6.655	6.15		14388
82	15596	<i>Pteronarcys californicus</i>	7758987	12	LC50/MOR/INC/	naiads, mature, immature 28-38 mm	LAB/F/C	6.83	30.5	6.655	6.15		14388
82	15597	<i>Pteronarcys californicus</i>	7758987	12	LETC/MOR/INC/	naiads, mature, immature 28-38 mm	LAB/F/C	6.83	30.5	6.655	6.15		14388
82	16309	<i>Pteronarcys californicus</i>	7758987	5.64	NR-ZERO/MOR/NEF/	naiads, 36-38 mm	LAB/F/C	11	31	6.93	3.7		14388
82	16310	<i>Pteronarcys californicus</i>	7758987	10.4	NR-ZERO/MOR/NEF/	female naiad	LAB/F/C	8	30	6.38	8		14388
83	<i>Invertebrates exposed to copper in soft water at <15degC over 1-3 days exposure</i>												
83	12766	<i>Aeolosoma headleyi</i>	7758987	2.6	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
83	12767	<i>Aeolosoma headleyi</i>	7758987	2.3	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
83	12768	<i>Aeolosoma headleyi</i>	7758987	2	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
83	12813	<i>Anculosa</i>	7758987	3	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
83	12814	<i>Anculosa</i>	7758987	2.4	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
83	12815	<i>Anculosa</i>	7758987	1	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
83	11624	<i>Anodonta cygnea zellensis</i>	7440508	0.0525	/MOR/INC/MULT	glochidia	LAB//	2	31.25	6.15	13		13719
83	13261	<i>Chironomus tentans</i>	7758987	0.327	LC50/ITX/INC/	3rd instar larvae	LAB/S/C	2	25	6.3	14		4553
83	13365	<i>Crangonyx pseudogracilis</i>	7758987	2.44	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	2	50	6.75	13	stock soln acidified with hno3	11972
83	13645	<i>Daphnia magna</i>	7758987	0.09	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
83	13646	<i>Daphnia magna</i>	7758987	0.07	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
83	13647	<i>Daphnia magna</i>	7758987	0.04	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
83	13754	<i>Daphnia pulex</i>	7758987	0.07	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
83	13755	<i>Daphnia pulex</i>	7758987	0.06	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
83	13756	<i>Daphnia pulex</i>	7758987	0.02	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
83	11482	<i>Paratya australiensis</i>	7440508	0.248	LC50/MOR//		LAB/F/S	2	11.9	6.9	15		3356

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
83	11483	<i>Paratya australiensis</i>	7440508	0.161	LC50/MOR//		LAB/F/S	2	13.5	6.7	15		3356
83	11484	<i>Paratya australiensis</i>	7440508	0.294	LC50/MOR//		LAB/F/S	2	12.7	6.9	15		3356
83	11485	<i>Paratya australiensis</i>	7440508	0.183	LC50/MOR//		LAB/F/S	2	13.2	6.5	15		3356
83	16307	<i>Pteronarcys californicus</i>	7758987	13.9	NR-LETH/MOR/INC/	naiads, 36-38 mm	LAB/F/C	2.92	31	6.93	3.7		14388
83	16308	<i>Pteronarcys californicus</i>	7758987	18.5	NR-LETH/MOR/INC/	naiads, mature, immature 28-33 mm	LAB/F/C	2	30	6.62	8.6		14388
84	<i>Invertebrates exposed to copper in soft water at <15degC over <=1 day exposure</i>												
84	12771	<i>Aeolosoma headleyi</i>	7758987	2.8	LC50/MOR//		LAB/S/S	1	45	7.5	5		518
84	12772	<i>Aeolosoma headleyi</i>	7758987	2.6	LC50/MOR//		LAB/S/S	1	45	7.5	10		518
84	12773	<i>Aeolosoma headleyi</i>	7758987	2.4	LC50/MOR//		LAB/S/S	1	45	7.5	15		518
84	12808	<i>Anculosa</i>	7758987	3.3	LC50/MOR//		LAB/S/S	1	45	7.5	5		518
84	12809	<i>Anculosa</i>	7758987	3.2	LC50/MOR//		LAB/S/S	1	45	7.5	10		518
84	12810	<i>Anculosa</i>	7758987	1.8	LC50/MOR//		LAB/S/S	1	45	7.5	15		518
84	13260	<i>Chironomus tentans</i>	7758987	0.701	LC50/ITX/INC/	3rd instar larvae	LAB/S/C	1	25	6.3	14		4553
84	13650	<i>Daphnia magna</i>	7758987	0.1	LC50/MOR//		LAB/S/S	1	45	7.5	5		518
84	13651	<i>Daphnia magna</i>	7758987	0.09	LC50/MOR//		LAB/S/S	1	45	7.5	10		518
84	13652	<i>Daphnia magna</i>	7758987	0.05	LC50/MOR//		LAB/S/S	1	45	7.5	15		518
84	13749	<i>Daphnia pulex</i>	7758987	0.08	LC50/MOR//		LAB/S/S	1	45	7.5	5		518
84	13750	<i>Daphnia pulex</i>	7758987	0.07	LC50/MOR//		LAB/S/S	1	45	7.5	10		518
84	13751	<i>Daphnia pulex</i>	7758987	0.03	LC50/MOR//		LAB/S/S	1	45	7.5	15		518
84	17078	<i>Streptocephalus proboscideus</i>	7758998	0.11	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	10		13328
84	17079	<i>Streptocephalus proboscideus</i>	7758998	0.14	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	10		13328
84	17083	<i>Streptocephalus proboscideus</i>	7758998	0.14	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	15		13328
84	17084	<i>Streptocephalus proboscideus</i>	7758998	0.18	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	15		13328
85	<i>Invertebrates exposed to copper in soft water at >15degC over 3-30 days exposure</i>												
85	12758	<i>Acrossocheilus paradoxus</i>	7758987	0.0258	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	4	34	7.35	22		18913
85	10864	<i>Amnicola</i>	7440508	9.3	LC50/MOR//	egg	LAB/S/I	4	50	7.6	17		2020
85	10866	<i>Amnicola</i>	7440508	0.9	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
85	16454	<i>Caridina</i>	7758987	0.013	/HIS//	2.5 cm	LAB/S/S	7	50	7.3	22		9811
85	13148	<i>Ceriodaphnia dubia</i>	7758987	0.0015	LC50/MOR/INC/	neonate	LAB/S/C	4	8	7.45	21.9	water-only	18527

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
85	13149	<i>Ceriodaphnia dubia</i>	7758987	0.0012	LC50/MOR/INC/	neonate	LAB/S/C	7	8	7.45	21.9	water-only	18527
85	13150	<i>Ceriodaphnia dubia</i>	7758987	0.0042	LC50/MOR/INC/	neonate	LAB/S/C	10	8	7.45	21.9	water-only	18527
85	13151	<i>Ceriodaphnia dubia</i>	7758987	0.0042	LC50/MOR/INC/	neonate	LAB/S/C	14	8	7.45	21.9	water-only	18527
85	13207	<i>Ceriodaphnia dubia</i>	7758987	0.0037	NOEC/MOR/INC/NOSIG	neonate	LAB/S/C	7	8	7.45	21.9	water only	18527
85	13208	<i>Ceriodaphnia dubia</i>	7758987	0.0141	NOEC/REP/DEC/NOSIG	neonate	LAB/S/C	7	8	7.45	21.9	water only	18527
85	13209	<i>Ceriodaphnia dubia</i>	7758987	0.0037	NOEC/MOR/INC/NOSIG	neonate	LAB/S/C	10	8	7.45	21.9	water only	18527
85	13210	<i>Ceriodaphnia dubia</i>	7758987	0.0096	NOEC/REP/DEC/NOSIG	neonate	LAB/S/C	10	8	7.45	21.9	water only	18527
85	13211	<i>Ceriodaphnia dubia</i>	7758987	0.0037	NOEC/MOR/INC/NOSIG	neonate	LAB/S/C	14	8	7.45	21.9	water only	18527
85	13212	<i>Ceriodaphnia dubia</i>	7758987	0.0032	NOEC/REP/DEC/NOSIG	neonate	LAB/S/C	14	8	7.45	21.9	water only	18527
85	11073	<i>Chironomus</i>	7440508	0.03	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
85	10464	<i>Chironomus tentans</i>	1344678	0.529	LC50/MOR//	fourth instar	LAB/F/S	12	30	7.4	19	16 h light	11404
85	13254	<i>Chironomus tentans</i>	7758987	0.0167	LC50/ITX//	1st instar larvae	LAB/S/I	4	42.7	7.6	21		10645
85	13257	<i>Chironomus tentans</i>	7758987	0.211	LC50/ITX//	4th instar larvae	LAB/S/I	4	42.7	7.6	21		10645
85	13264	<i>Chironomus tentans</i>	7758987	0.63	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	4	8	7.45	21.9	water-only	18527
85	13265	<i>Chironomus tentans</i>	7758987	0.657	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	7	8	7.45	21.9	water-only	18527
85	13266	<i>Chironomus tentans</i>	7758987	1.502	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	10	8	7.45	21.9	water-only	18527
85	13267	<i>Chironomus tentans</i>	7758987	1.175	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	14	8	7.45	21.9	water-only	18527
85	13276	<i>Chironomus tentans</i>	7758987	0.054	LC50/MOR//	12 d, second instar larvae	LAB/F/U	10	45.5	7.9	22.2		8835
85	13277	<i>Chironomus tentans</i>	7758987	0.0229	NOEC/MOR/INC/NOSIG	second instar larvae, 10 d	LAB/S/C	10	8	7.45	21.9	water only	18527
85	13278	<i>Chironomus tentans</i>	7758987	0.0216	NOEC/GRO/DEC/NOSIG	second instar larvae, 10 d	LAB/S/C	10	8	7.45	21.9	water only	18527
85	10479	<i>Daphnia magna</i>	1344678	0.007	LC50/ITX//	<4 h	LAB/S/I	4	54	7.3	20		12311
85	10481	<i>Daphnia magna</i>	1344678	0.018	LC50/ITX//	<4 h	LAB/S/I	6	54	7.3	20		12311
85	12124	<i>Daphnia magna</i>	7447394	0.044	LC50/ITX//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
85	12125	<i>Daphnia magna</i>	7447394	0.035	EC50/REP//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
85	11262	<i>Dugesia tigrina</i>	7440508	2.45	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
85	13827	<i>Dugesia tigrina</i>	7758987	1.77	LC50/MOR//		LAB/S/I	4	40	7.5	23	for other water chemistry see paper	6154
85	11296	<i>Gammarus</i>	7440508	0.91	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
85	11298	<i>Hyalella azteca</i>	7440508	0.028	LC50/MOR/INC/	7-14 d	LAB/L/C	10	45.5	7.65	22	keweenaw watershed sediment samples	13472

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
85	11778	<i>Hyalella azteca</i>	7440508	0.007	/MOR/CHG/	7-14 d	LAB/L/C	10	45.5	7.65	22	steilacoom lake sediment samples	13472
85	13972	<i>Hyalella azteca</i>	7758987	0.031	LC50/MOR/INC/	7-14 d	LAB/F/C	10	45.5	7.65	22		13472
85	13975	<i>Hyalella azteca</i>	7758987	0.0656	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	4	8	7.45	21.9	water-only	18527
85	13976	<i>Hyalella azteca</i>	7758987	0.0526	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	7	8	7.45	21.9	water-only	18527
85	13977	<i>Hyalella azteca</i>	7758987	0.0672	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	10	8	7.45	21.9	water-only	18527
85	13988	<i>Hyalella azteca</i>	7758987	0.0441	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	14	8	7.45	21.9	water only	18527
85	13993	<i>Hyalella azteca</i>	7758987	0.031	LC50/MOR//	7-14 d	LAB/F/S	10	45.5	7.9	22.2		8835
85	14177	<i>Lumbriculus variegatus</i>	7758987	0.15	LC50/MOR/INC/		LAB/S/C	4	30	7.5	20		6502
85	14178	<i>Lumbriculus variegatus</i>	7758987	0.035	LC50/MOR//	7 mg	LAB/F/I	10	45.5	7.9	22.2		8835
85	16755	<i>Macrobrachium kistnensis</i>	7758987	0.013	/HIS//	6 mm	LAB/S/S	7	50	7.3	22		9811
85	12225	<i>Moina irrasa</i>	7447394	0.0061	LC50/MOR/INC/	neonate, <24 h	LAB/S/	4	5	6.5	20		13762
85	12226	<i>Moina irrasa</i>	7447394	0.0075	LC50/MOR/INC/	neonate, <24 h	LAB/S/	4	5	8	20		13762
85	11360	<i>Nais</i>	7440508	0.09	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
85	12534	<i>Oziotelphusa senex senex</i>	7447394	0.1	/BCM/CHG/SIG	adult, 30-32 g	LAB/R/S	4	35	7.1	30		13745
85	12535	<i>Oziotelphusa senex senex</i>	7447394	0.1	/BCM/CHG/SIG	adult, 30-32 g	LAB/R/S	4	35	7.1	30		13745
85	16900	<i>Paratanytarsus parthenogenetic</i>	7758987	0.32	/GRO//	larvae	LAB/S/I	7	25	7	23		15385
85	16901	<i>Paratanytarsus parthenogenetic</i>	7758987	0.64	/GRO//	larvae	LAB/S/I	7	25	7	23		15385
85	14666	<i>Philodina acuticornis</i>	7758987	0.6	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
85	14667	<i>Philodina acuticornis</i>	7758987	0.7	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
85	14695	<i>Physa heterostropha</i>	7758987	0.016	LC50/MOR//	young, 3-6 mm	LAB//I	4	20	7.3	21		3692
85	14699	<i>Physa heterostropha</i>	7758987	0.034	LC50/MOR//	young, 3-6 mm	LAB//I	4	20	7.3	21	uncooked wheatena present in dilution water as organic	3692
85	14701	<i>Physastra gibbosa</i>	7758987	0.041	LC50/MOR/INC/		LAB/R/	4	54	7.5	25		9957
85	14702	<i>Physastra gibbosa</i>	7758987	0.031	LC50/MOR/INC/		LAB/R/	8	54	7.5	25		9957

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
85	17074	<i>Physella gyrina</i>	7758998	0.038	LC50/MOR/INC/		LAB/R/C	7	10.25	7	25		9058
85	17139	<i>Physella gyrina</i>	7758998	0.0491	/GRO/NEF/NOSIG		LAB/R/C	7	10.25	7	25		9058
85	16292	<i>Procambarus clarkii</i>	7758987	5.5	/MOR/INC/	8-10 cm, adult	LAB/C	4	30.32	7.4	25		19305
85	12429	<i>Tanytarsus dissimilis</i>	7447394	0.0163	LC50/MOR//	2nd or 3rd instar eggs	LAB/S/U	10	46.8	7.5	22		5249
85	11606	<i>Trichoptera</i>	7440508	6.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
85	15862	<i>Viviparus bengalensis</i>	7758987	0.96	LC50/MOR//	26-28 mm, 2.5-3.5 g	LAB/R/I	4	52	7.45	30		5179
85	11618	<i>Zygoptera</i>	7440508	4.6	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
86	<i>Invertebrates exposed to copper in soft water at >15degC over 1-3 days exposure</i>												
86	12757	<i>Acrossocheilus paradoxus</i>	7758987	0.0333	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	2	34	7.35	22		18913
86	12769	<i>Aeolosoma headleyi</i>	7758987	1.65	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
86	12770	<i>Aeolosoma headleyi</i>	7758987	1	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
86	12816	<i>Anculosa</i>	7758987	0.3	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
86	12817	<i>Anculosa</i>	7758987	0.21	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
86	16414	<i>Barytelphusa cunicularis</i>	7758987	10	/BCM//	mature, 115 g	LAB/S	2.5	6.4	7.2	22		6549
86	13108	<i>Caridina</i>	7758987	0.072	LC50/MOR//	2.5 cm	LAB/S/S	2	50	7.3	22		9811
86	13147	<i>Ceriodaphnia dubia</i>	7758987	0.0027	LC50/MOR/INC/	neonate	LAB/S/C	2	8	7.45	21.9	water-only	18527
86	16470	<i>Chironomus decorus</i>	7758987	0.516	/MOR//		LAB/U	3	60	7.575	21		2050
86	10465	<i>Chironomus tentans</i>	1344678	1.266	LC50/MOR//	fourth instar	LAB/F/S	2	26	7.4	19	16 h light	11404
86	10469	<i>Chironomus tentans</i>	1344678	0.608	LC50/MOR//	second instar	LAB/F/S	2	26	7.4	19	16 h light	11404
86	13263	<i>Chironomus tentans</i>	7758987	0.529	LC50/MOR/INC/	2nd instar larvae, 10 d	LAB/S/C	2	8	7.45	21.9	water-only	18527
86	16471	<i>Chironomus tentans</i>	7758987	3	/MOR//	egg	LAB/S/S	3	42.7	7.6	21	conductance 2.43 umhocm in reconstituted water	10645
86	16472	<i>Chironomus tentans</i>	7758987	5	/MOR//	egg	LAB/S/S	3	42.7	7.6	21	conductance 2.43 umhocm in reconstituted water	10645
86	13281	<i>Chydorus sphaericus</i>	7758987	0.456	LC50/ITX/INC/	adult, >0.30 mm	LAB/S/S	2	11.7	6.48	18	organism from non polluted lake, mesotrophic level	4258
86	13282	<i>Chydorus sphaericus</i>	7758987	0.386	LC50/ITX/INC/	adult, >0.30 mm	LAB/S/S	2	10.5	6.41	18	organism from pristine lake, dystrophic level	4258

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
86	13284	<i>Chydorus sphaericus</i>	7758987	0.252	LC50/ITX/INC/	juvenile, <0.30 mm	LAB/S/S	2	10.5	6.41	18	organism from pristine lake, dystrophic level	4258
86	13492	<i>Daphnia ambigua</i>	7758987	12.4	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
86	10475	<i>Daphnia magna</i>	1344678	0.007	LC50/ITX//	<4 h	LAB/S/I	2	54	7.3	20		12311
86	10477	<i>Daphnia magna</i>	1344678	0.006	LC50/ITX//	<4 h	LAB/S/I	2	54	7.3	20		12311
86	10478	<i>Daphnia magna</i>	1344678	0.014	LC50/ITX//	<4 h	LAB/S/I	3	54	7.3	20		12311
86	10480	<i>Daphnia magna</i>	1344678	0.01	LC50/ITX//	<4 h	LAB/S/I	2	54	7.3	20		12311
86	12122	<i>Daphnia magna</i>	7447394	0.06	LC50/ITX//	12 h	LAB/S/I	2	45.3	7.74	18	see paper	2022
86	12123	<i>Daphnia magna</i>	7447394	0.0098	LC50/ITX//	12 h	LAB/S/I	2	45.3	7.74	18	see paper	2022
86	12135	<i>Daphnia magna</i>	7447394	0.026	LC50/MOR//	< 1 d	LAB/S/I	2	52	7.8	18.2	water parameters rpt	3621
86	13501	<i>Daphnia magna</i>	7758987	13.5	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
86	13502	<i>Daphnia magna</i>	7758987	25.2	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
86	13503	<i>Daphnia magna</i>	7758987	31.6	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
86	13504	<i>Daphnia magna</i>	7758987	13.5	LC50/ITX//	12 h	LAB/S/I	3	44	7.35	20		8476
86	13648	<i>Daphnia magna</i>	7758987	0.01	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
86	13649	<i>Daphnia magna</i>	7758987	0.007	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
86	13757	<i>Daphnia pulex</i>	7758987	0.01	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
86	13758	<i>Daphnia pulex</i>	7758987	0.056	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
86	11244	<i>Daphnia pulicaria</i>	7440508	0.0554	LC50/MOR//		LAB/S/I	2	31	6.66	18		5081
86	11245	<i>Daphnia pulicaria</i>	7440508	0.0553	LC50/MOR//		LAB/S/I	2	29	6.97	18		5081
86	11246	<i>Daphnia pulicaria</i>	7440508	0.0533	LC50/MOR//		LAB/S/I	2	28	7.2	18		5081
86	11252	<i>Daphnia pulicaria</i>	7440508	0.0355	LC50/MOR//		LAB/S/I	2	16	7.39	18		5081
86	11255	<i>Daphnia pulicaria</i>	7440508	0.0764	LC50/MOR//		LAB/S/I	2	26	7.24	18		5081
86	13815	<i>Dreissena polymorpha</i>	7758987	5.38	LC50/MOR/INC/	20-25 mm	LAB/S/S	2	40	7.7	17		4175
86	13816	<i>Dreissena polymorpha</i>	7758987	4	LC50/MOR/INC/	5-8 mm	LAB/S/S	2	40	7.7	17		4175
86	13826	<i>Dugesia tigrina</i>	7758987	9.36	LC50/MOR//		LAB/S/I	2	40	7.5	23	for other water chemistry see paper	6154
86	13974	<i>Hyalella azteca</i>	7758987	0.0722	LC50/MOR/INC/	2-3 wk, >0.6 mm - <1.0 mm	LAB/S/C	2	8	7.45	21.9	water-only	18527
86	14176	<i>Lumbriculus variegatus</i>	7758987	0.23	LC50/MOR/INC/		LAB/S/C	2	30	7.5	20		6502
86	14255	<i>Macrobrachium kistnensis</i>	7758987	0.071	LC50/MOR//	6 mm	LAB/S/S	2	50	7.3	22		9811
86	12220	<i>Moina irrasa</i>	7447394	0.0081	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	20		13762

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
86	12222	<i>Moina irrasa</i>	7447394	0.0081	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	6.5	20		13762
86	12223	<i>Moina irrasa</i>	7447394	0.0126	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	8	20		13762
86	12231	<i>Moina irrasa</i>	7447394	0.0037	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	25		13762
86	12232	<i>Moina irrasa</i>	7447394	0.0118	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	8	25		13762
86	14396	<i>Obliquaria reflexa</i>	7758987	20	LC50/MOR/INC/	30-50 mm	LAB/S/S	2	40	7.7	17		4175
86	14665	<i>Philodina acuticornis</i>	7758987	0.8	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
86	14668	<i>Philodina acuticornis</i>	7758987	1	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
86	14693	<i>Physa heterostropha</i>	7758987	0.019	LC50/MOR//	young, 3-6 mm	LAB/I	2	20	7.3	21		3692
86	14694	<i>Physa heterostropha</i>	7758987	0.018	LC50/MOR//	young, 3-6 mm	LAB/I	3	20	7.3	21		3692
86	14697	<i>Physa heterostropha</i>	7758987	0.034	LC50/MOR//	young, 3-6 mm	LAB/I	2	20	7.3	21	uncooked wheatena present in dilution water as organic	3692
86	14698	<i>Physa heterostropha</i>	7758987	0.034	LC50/MOR//	young, 3-6 mm	LAB/I	3	20	7.3	21	uncooked wheatena present in dilution water as organic	3692
86	15696	<i>Spirostomum ambiguum</i>	7758987	0.0048	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
86	15698	<i>Spirostomum ambiguum</i>	7758987	0.0064	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
86	15788	<i>Tubifex tubifex</i>	7758987	0.21	LC50/MOR//		LAB/R/S	2	34.2	7.2	20	mg, po4, and ca	8905
86	15792	<i>Tubifex tubifex</i>	7758987	0.0064	LC50/MOR//		LAB/R/S	2	0.1	6.3	20		8905
86	15794	<i>Tubifex tubifex</i>	7758987	0.21	LC50/MOR//		LAB/R/S	2	34.2	6.85	20	mg, po4 and ca	8905
87	Invertebrates exposed to copper in soft water at >15degC over <=1 day exposure												
87	12756	<i>Acrossocheilus paradoxus</i>	7758987	0.044	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
87	15894	<i>Acrossocheilus paradoxus</i>	7758987	0.1	NR-LETH/MOR/DEC/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
87	12774	<i>Aeolosoma headleyi</i>	7758987	1.8	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
87	12775	<i>Aeolosoma headleyi</i>	7758987	1.6	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
87	10863	<i>Amnicola</i>	7440508	4.5	LC50/MOR//	egg	LAB/S/I	1	50	7.6	17		2020
87	10865	<i>Amnicola</i>	7440508	1.5	LC50/MOR//	adult	LAB/S/I	1	50	7.6	17		2020
87	12811	<i>Anculosa</i>	7758987	0.56	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
87	12812	<i>Anculosa</i>	7758987	0.48	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
87	16413	<i>Barytelphusa cunicularis</i>	7758987	10	/PHY//	mature, 115 g	LAB/S	0.26	6.4	7.2	22		6549

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
87	12930	<i>Brachionus calyciflorus</i>	7758987	0.2	LC50/MOR//	juvenile	LAB/S/S	1	36.2	7.3	20		3091
87	10954	<i>Ceriodaphnia dubia</i>	7440508	0.005	IC50/REP/DEC/		LAB/S/C	1	20	6.95	25		45106
87	10955	<i>Ceriodaphnia dubia</i>	7440508	0.015	IC50/REP/DEC/		LAB/S/C	1	17	7	25		45106
87	11042	<i>Ceriodaphnia dubia</i>	7440508	0.006	LOEC/MOR/DEC/SIG		LAB/S/C	1	20	6.95	25		45106
87	11043	<i>Ceriodaphnia dubia</i>	7440508	0.006	LOEC/REP/DEC/SIG		LAB/S/C	1	20	6.95	25		45106
87	11044	<i>Ceriodaphnia dubia</i>	7440508	0.014	LOEC/REP/DEC/SIG		LAB/S/C	1	17	7	25		45106
87	11045	<i>Ceriodaphnia dubia</i>	7440508	0.037	LOEC/MOR/DEC/SIG		LAB/S/C	1	22	7	25		45106
87	11046	<i>Ceriodaphnia dubia</i>	7440508	0.005	MATC/REP/DEC/		LAB/S/C	1	20	6.95	25		45106
87	11047	<i>Ceriodaphnia dubia</i>	7440508	0.011	MATC/REP/DEC/		LAB/S/C	1	17	7	25		45106
87	11052	<i>Ceriodaphnia dubia</i>	7440508	0.004	NOEC/MOR/DEC/NOSIG		LAB/S/C	1	20	6.95	25		45106
87	11053	<i>Ceriodaphnia dubia</i>	7440508	0.004	NOEC/REP/DEC/NOSIG		LAB/S/C	1	20	6.95	25		45106
87	11054	<i>Ceriodaphnia dubia</i>	7440508	0.01	NOEC/REP/DEC/NOSIG		LAB/S/C	1	17	7	25		45106
87	11055	<i>Ceriodaphnia dubia</i>	7440508	0.019	NOEC/MOR/DEC/NOSIG		LAB/S/C	1	22	7	25		45106
87	11072	<i>Chironomus</i>	7440508	0.65	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
87	10476	<i>Daphnia magna</i>	1344678	0.01	LC50/ITX//	<4 h	LAB/S/I	1	54	7.3	20		12311
87	13653	<i>Daphnia magna</i>	7758987	0.01	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
87	13654	<i>Daphnia magna</i>	7758987	0.01	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
87	13752	<i>Daphnia pulex</i>	7758987	0.02	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
87	13753	<i>Daphnia pulex</i>	7758987	0.01	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
87	13825	<i>Dugesia tigrina</i>	7758987	10	LC50/MOR//		LAB/S/I	1	40	7.5	23	for other water chemistry see paper	6154
87	11295	<i>Gammarus</i>	7440508	1.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
87	12217	<i>Moina irrasa</i>	7447394	0.0081	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	20		13762
87	12218	<i>Moina irrasa</i>	7447394	0.0197	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	20		13762
87	12228	<i>Moina irrasa</i>	7447394	0.0062	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	25		13762
87	12229	<i>Moina irrasa</i>	7447394	0.0128	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	25		13762
87	12234	<i>Moina irrasa</i>	7447394	0.0029	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	30		13762
87	12235	<i>Moina irrasa</i>	7447394	0.0127	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	30		13762
87	12236	<i>Moina irrasa</i>	7447394	0.0059	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	20		13762
87	11359	<i>Nais</i>	7440508	2.3	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
87	14664	<i>Philodina acuticornis</i>	7758987	1.5	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
87	14669	<i>Philodina acuticornis</i>	7758987	1.9	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
87	14692	<i>Physa heterostropha</i>	7758987	0.046	LC50/MOR//	young, 3-6 mm	LAB/I	1	20	7.3	21		3692

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
87	14696	<i>Physa heterostropha</i>	7758987	0.143	LC50/MOR//	young, 3-6 mm	LAB//I	1	20	7.3	21	uncooked wheatena present in dilution water as organic	3692
87	17075	<i>Posthodiplostomum minimum</i>	7758998	0.032	LC50/MOR/INC/		LAB/R/C	0.38	10.2	7.405	25		9058
87	17076	<i>Posthodiplostomum minimum</i>	7758998	0.026	LC50/MOR/INC/		LAB/R/C	0.5	10.2	7.405	25		9058
87	16987	Protozoa	7758987	0.5	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
87	16988	Protozoa	7758987	1	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
87	16989	Protozoa	7758987	50	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
87	15616	<i>Pyganodon grandis</i>	7758987	0.046	LC50/MOR/INC/	glochidia	LAB/S/C	1	50	7.9	20		18130
87	15695	<i>Spirostomum ambiguum</i>	7758987	0.0043	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
87	15697	<i>Spirostomum ambiguum</i>	7758987	0.0064	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
87	17088	<i>Streptocephalus proboscideus</i>	7758998	0.12	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	20		13328
87	17089	<i>Streptocephalus proboscideus</i>	7758998	0.17	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	20		13328
87	17093	<i>Streptocephalus proboscideus</i>	7758998	0.06	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	25		13328
87	17094	<i>Streptocephalus proboscideus</i>	7758998	0.11	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	25		13328
87	17098	<i>Streptocephalus proboscideus</i>	7758998	0.07	LC50/MOR/INC/	nauplii	LAB/S/K	1	9	6.5	30		13328
87	17099	<i>Streptocephalus proboscideus</i>	7758998	0.077	LC50/MOR/INC/	nauplii	LAB/S/K	1	38	7.2	30		13328
87	11605	Trichoptera	7440508	12.1	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
87	15791	<i>Tubifex tubifex</i>	7758987	0.01	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
87	15793	<i>Tubifex tubifex</i>	7758987	0.36	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	mg, po4 and ca	8905
87	15795	<i>Tubifex tubifex</i>	7758987	1	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	mg, po4 and ca	8905
87	15835	<i>Villosa iris</i>	7758987	0.055	LC50/MOR/INC/	glochidia	LAB/S/C	1	55	7.9	20		18130
87	15836	<i>Villosa iris</i>	7758987	0.038	LC50/MOR/INC/	glochidia	LAB/S/C	1	55	7.9	20		18130
87	15837	<i>Villosa iris</i>	7758987	0.071	LC50/MOR/INC/	glochidia	LAB/S/C	1	50	7.9	20		18130
87	15861	<i>Viviparus bengalensis</i>	7758987	1.36	LC50/MOR//	26-28 mm, 2.5-3.5 g	LAB/R/I	1	52	7.45	30		5179
87	11617	Zygoptera	7440508	10.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
88	Invertebrates exposed to copper in very hard water at >15degC over 3-30 days exposure												

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
88	11752	<i>Chironomus tentans</i>	7440508	1.2055	/MOR/CHG/MULT	larvae, 10-12 d	LAB/L/C	10	754.5	7.235	23	contaminated sediment, 28 lake and stream sources, 0.3-	18010
88	11753	<i>Chironomus tentans</i>	7440508	1.2055	/GRO/CHG/MULT	larvae, 10-12 d	LAB/L/C	10	754.5	7.235	23	contaminated sediment, 28 lake and stream sources, 0.3-	18010
88	13683	<i>Daphnia magna</i>	7758987	0.0037	LC50/MOR//	6-24 h	LAB/R/S	7	250	7.35	20.25	hard reconstituted water	11383
88	13684	<i>Daphnia magna</i>	7758987	0.0019	LC50/MOR//	6-24 h	LAB/R/S	14	250	7.35	20.25	hard reconstituted water	11383
88	13685	<i>Daphnia magna</i>	7758987	0.0014	LC50/MOR//	6-24 h	LAB/R/S	21	250	7.35	20.25	hard reconstituted water	11383
88	13729	<i>Daphnia magna</i>	7758987	0.097	LC50/MOR//		LAB//I	4	190	7.7	21		323
88	13730	<i>Daphnia magna</i>	7758987	0.067	LC50/MOR//		LAB//I	5	190	7.7	21		323
88	10650	<i>Hyalella azteca</i>	3251238	0.017	LC50/MOR//	7-14 d	LAB//I	4	290	6.225	25		7289
88	10651	<i>Hyalella azteca</i>	3251238	0.024	LC50/MOR//	7-14 d	LAB//I	4	290	7.505	25		7289
88	14014	<i>Hydra vulgaris</i>	7758987	0.032	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	4	204	7.8	20		50836
88	10657	<i>Lumbriculus variegatus</i>	3251238	0.13	LC50/MOR//	mixed age adults	LAB//I	4	290	6.57	25		7289
88	10658	<i>Lumbriculus variegatus</i>	3251238	0.27	LC50/MOR//	mixed age adults	LAB//I	4	290	7.29	25		7289
88	14204	<i>Lymnaea acuminata</i>	7758987	0.034	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	4	375	7.5	27.5	water chem profile rptd	11099
88	14208	<i>Lymnaea acuminata</i>	7758987	0.034	LC50/MOR/INC/	0.550 (0.450-0.810) g,	LAB/S/C	4	240	7.5	26.5		3527
88	14215	<i>Lymnaea luteola</i>	7758987	0.172	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	4	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
88	16983	<i>Procambarus clarkii</i>	7758987	0.21	/MOR//	mature, 15-38 g	LAB/S/I	4	250	7.8	19		12517
88	15850	<i>Viviparus bengalensis</i>	7758987	0.39	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	4	190	7.7	20.3	conductivity 820(700-950) umcm	15716
88	15855	<i>Viviparus bengalensis</i>	7758987	0.066	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	4	205	7.6	24	conductivity 880(700-950) umcm	15716

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
88	15866	<i>Viviparus bengalensis</i>	7758987	0.088	LC50/MOR/INC/	1.916 (1.10-3.850)g,	LAB/S/C	4	240	7.5	26.5		3527
89	<i>Invertebrates exposed to copper in very hard water at >15degC over 1-3 days exposure</i>												
89	10559	<i>Ceriodaphnia dubia</i>	3251238	0.0095	LC50/MOR//	<=48 h	LAB//I	2	290	6.235	25		7289
89	10560	<i>Ceriodaphnia dubia</i>	3251238	0.028	LC50/MOR//	<=48 h	LAB//I	2	290	7.135	25		7289
89	10999	<i>Ceriodaphnia dubia</i>	7440508	0.056	LC50/MOR/INC/	neonates	LAB/R/	2	182	6	25	water from clinch river, virginia	8661
89	11000	<i>Ceriodaphnia dubia</i>	7440508	0.084	LC50/MOR/INC/	neonates	LAB/R/	2	182	8	25	water from clinch river, virginia	8661
89	13447	<i>Cypris subglobosa</i>	7758987	0.67	LC50/ITX//		LAB/S/S	2	240	6.5	28		5054
89	13449	<i>Cypris subglobosa</i>	7758987	0.72	LC50/ITX//		LAB/S/S	2	240	7	28		5054
89	13451	<i>Cypris subglobosa</i>	7758987	1.55	LC50/ITX//		LAB/S/S	2	240	7.5	28		5054
89	11174	<i>Daphnia magna</i>	7440508	0.038	LC50/MOR//	<24 h	LAB/R/S	2	184	7.85	19		3522
89	13682	<i>Daphnia magna</i>	7758987	0.0185	LC50/MOR//	6-24 h	LAB/R/S	2	250	7.35	20.25	hard reconstituted water	11383
89	13727	<i>Daphnia magna</i>	7758987	0.2	LC50/MOR//		LAB//I	2	190	7.7	21		323
89	13728	<i>Daphnia magna</i>	7758987	0.14	LC50/MOR//		LAB//I	3	190	7.7	21		323
89	11235	<i>Daphnia obtusa</i>	7440508	0.017	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	2	250	7.8	20		20191
89	13810	<i>Dero limosa</i>	7758987	0.064	LT50/MOR//		LAB/R/S	1.25	182	7.775	19	oxidizeability, nh4, cao, mgo	2565
89	13811	<i>Dero limosa</i>	7758987	0.032	LT50/MOR//		LAB/R/S	2	182	7.775	19	oxidizeability, nh4, cao, mgo	2565
89	13812	<i>Dero limosa</i>	7758987	0.016	LT50/MOR//		LAB/R/S	2.33	182	7.775	19	oxidizeability, nh4, cao, mgo	2565
89	14012	<i>Hydra vulgaris</i>	7758987	0.054	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	2	204	7.8	20		50836
89	14013	<i>Hydra vulgaris</i>	7758987	0.038	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	3	204	7.8	20		50836
89	14202	<i>Lymnaea acuminata</i>	7758987	0.049	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	2	375	7.5	27.5	water chem profile rptd	11099
89	14203	<i>Lymnaea acuminata</i>	7758987	0.039	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	3	375	7.5	27.5	water chem profile rptd	11099
89	14207	<i>Lymnaea acuminata</i>	7758987	0.049	LC50/MOR/INC/	0.550 (0.450-0.810) g,	LAB/S/C	2	240	7.5	26.5		3527
89	14214	<i>Lymnaea luteola</i>	7758987	0.341	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	2	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
89	16352	<i>Tetrahymena thermophila</i>	7758987	5.25	/MOR/CHG/	2.0 e+5 cells/ml	LAB/S/C	2.5	211	7	27		13734
89	15790	<i>Tubifex tubifex</i>	7758987	0.89	LC50/MOR//		LAB/R/S	2	261	7.32	20	mg, po ₄ , and ca	8905
89	15848	<i>Viviparus bengalensis</i>	7758987	7.8	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	2	190	7.7	20.3	conductivity 820(700-950) umcm	15716
89	15849	<i>Viviparus bengalensis</i>	7758987	0.85	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	3	190	7.7	20.3	conductivity 820(700-950) umcm	15716
89	15853	<i>Viviparus bengalensis</i>	7758987	1.27	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	2	205	7.6	24	conductivity 880(700-950) umcm	15716
89	15854	<i>Viviparus bengalensis</i>	7758987	0.084	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	3	205	7.6	24	conductivity 880(700-950) umcm	15716
89	15865	<i>Viviparus bengalensis</i>	7758987	0.27	LC50/MOR/INC/	1.916 (1.10-3.850)g,	LAB/S/C	2	240	7.5	26.5		3527
90	Invertebrates exposed to copper in very hard water at >15degC over <=1 day exposure												
90	13446	<i>Cypris subglobosa</i>	7758987	1.16	LC50/ITX//		LAB/S/S	1	240	6.5	28		5054
90	13448	<i>Cypris subglobosa</i>	7758987	1.61	LC50/ITX//		LAB/S/S	1	240	7	28		5054
90	13450	<i>Cypris subglobosa</i>	7758987	3.42	LC50/ITX//		LAB/S/S	1	240	7.5	28		5054
90	10634	<i>Daphnia magna</i>	3251238	0.07	LC50/ITX//	adult, 1 mm	LAB/S/I	1	200	7.8	20		5268
90	13726	<i>Daphnia magna</i>	7758987	0.5	LC50/MOR//		LAB/I	1	190	7.7	21		323
90	11234	<i>Daphnia obtusa</i>	7440508	0.02	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	1	250	7.8	20		20191
90	13801	<i>Dero limosa</i>	7758987	130	LT50/MOR//		LAB/R/S	0.02	182	7.8	19	oxidizeability, nh ₄ , cao, mgo	2565
90	13802	<i>Dero limosa</i>	7758987	64	LT50/MOR//		LAB/R/S	0.03	182	7.8	19	oxidizeability, nh ₄ , cao, mgo	2565
90	13803	<i>Dero limosa</i>	7758987	32	LT50/MOR//		LAB/R/S	0.03	182	7.8	19	oxidizeability, nh ₄ , cao, mgo	2565
90	13804	<i>Dero limosa</i>	7758987	16	LT50/MOR//		LAB/R/S	0.06	182	7.8	19	oxidizeability, nh ₄ , cao, mgo	2565
90	13805	<i>Dero limosa</i>	7758987	8.2	LT50/MOR//		LAB/R/S	0.17	182	7.8	19	oxidizeability, nh ₄ , cao, mgo	2565
90	13806	<i>Dero limosa</i>	7758987	41	LT50/MOR//		LAB/R/S	0.17	182	7.8	19	oxidizeability, nh ₄ , cao, mgo	2565
90	13807	<i>Dero limosa</i>	7758987	21	LT50/MOR//		LAB/R/S	0.21	182	7.8	19	oxidizeability, nh ₄ , cao, mgo	2565
90	13808	<i>Dero limosa</i>	7758987	0.26	LT50/MOR//		LAB/R/S	0.5	182	7.775	19	oxidizeability, nh ₄ , cao, mgo	2565

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
90	13809	<i>Dero limosa</i>	7758987	0.13	LT50/MOR//		LAB/R/S	1	182	7.775	19	oxidizeability, nh ₄ , cao, mgo	2565
90	14011	<i>Hydra vulgaris</i>	7758987	0.11	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	1	204	7.8	20		50836
90	14201	<i>Lymnaea acuminata</i>	7758987	0.102	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	1	375	7.5	27.5	water chem profile rptd	11099
90	14205	<i>Lymnaea acuminata</i>	7758987	0.169	LC50/MOR/INC/	0.550 (0.450-0.810) g,	LAB/S/C	0.5	240	7.5	26.5		3527
90	14206	<i>Lymnaea acuminata</i>	7758987	0.102	LC50/MOR/INC/	0.550 (0.450-0.810) g,	LAB/S/C	1	240	7.5	26.5		3527
90	14212	<i>Lymnaea luteola</i>	7758987	0.902	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	0.5	315	7.6	27.5	conductivity 970(940-1050) umhcm, na, k, ca, si, tds	15629
90	14213	<i>Lymnaea luteola</i>	7758987	0.491	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	1	315	7.6	27.5	conductivity 970(940-1050) umhcm, na, k, ca, si, tds	15629
90	16777	<i>Nais</i>	7758987	5	/MOR/INC/	3 species	LAB/S/K	0.38	320	7.35	20		10301
90	15789	<i>Tubifex tubifex</i>	7758987	1.38	LC50/MOR//		LAB/R/S	1	261	7.32	20	mg, po ₄ , and ca	8905
90	15846	<i>Viviparus bengalensis</i>	7758987	15	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	0.5	190	7.7	20.3	conductivity 820(700-950) umcm	15716
90	15847	<i>Viviparus bengalensis</i>	7758987	13.93	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	1	190	7.7	20.3	conductivity 820(700-950) umcm	15716
90	15851	<i>Viviparus bengalensis</i>	7758987	5.02	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	0.5	205	7.6	24	conductivity 880(700-950) umcm	15716
90	15852	<i>Viviparus bengalensis</i>	7758987	2.15	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	1	205	7.6	24	conductivity 880(700-950) umcm	15716
90	15863	<i>Viviparus bengalensis</i>	7758987	2.16	LC50/MOR/INC/	1.916 (1.10-3.850)g,	LAB/S/C	0.5	240	7.5	26.5		3527
90	15864	<i>Viviparus bengalensis</i>	7758987	1.33	LC50/MOR/INC/	1.916 (1.10-3.850)g,	LAB/S/C	1	240	7.5	26.5		3527
91	Non-arthropod invertebrates exposed to copper in moderately hard water at >15degC over 3-30 days exposure												
91	10541	<i>Biomphalaria glabrata</i>	3251238	0.04	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	4	100	7.6	20		5268

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
91	11627	<i>Brachionus calyciflorus</i>	7440508	0.0073	/MOR/INC/		LAB/R/S	5	90	7.6	22		4329
91	11628	<i>Brachionus calyciflorus</i>	7440508	0.02	/MOR/INC/		LAB/R/S	5	90	7.6	22		4329
91	11839	<i>Brachionus calyciflorus</i>	7440508	0.0073	/POP/DEC/		LAB/R/S	5	90	7.6	22		4329
91	13942	<i>Gyraulius circumstriatus</i>	7758987	0.425	LC50/MOR//		LAB/I	4	100	7.85	21		2050
91	14009	<i>Hydra vulgaris</i>	7758987	0.04	LC50/MOR/INC/	polyps, budding, non-budding	LAB/C	4	108	7.5	20		18616
91	14174	<i>Limnodrilus hoffmeisteri</i>	7758987	0.4	LC50/MOR//		LAB/I	4	100	7.85	21		2050
91	14660	<i>Philodina acuticornis</i>	7758987	1.1	LC50/ITX/INC/		LAB/S/C	4	81	7.6	20		2019
91	14661	<i>Philodina acuticornis</i>	7758987	1.1	LC50/ITX/INC/		LAB/S/C	4	81	7.6	20		2019
91	14683	<i>Physa heterostropha</i>	7758987	0.069	LC50/MOR//	adult, 12-15 mm	LAB/I	4	100	7.8	21		3692
91	14687	<i>Physa heterostropha</i>	7758987	0.013	LC50/MOR//	young, 3-6 mm	LAB/I	4	100	7.8	21		3692
91	14691	<i>Physa heterostropha</i>	7758987	0.053	LC50/MOR//	young, 3-6 mm	LAB/I	4	100	7.8	21	uncooked wheatena present in dilution water as organic	3692
92	Non-arthropod invertebrates exposed to copper in moderately hard water at >15degC over 1-3 days exposure												
92	10539	<i>Biomphalaria glabrata</i>	3251238	0.06	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	2	100	7.6	20		5268
92	10540	<i>Biomphalaria glabrata</i>	3251238	0.05	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	3	100	7.6	20		5268
92	11838	<i>Brachionus calyciflorus</i>	7440508	0.0113	/FDB/DEC/		LAB/R/S	3	90	7.6	22		4329
92	13940	<i>Gyraulius circumstriatus</i>	7758987	10	LC50/MOR//		LAB/I	2	100	7.85	21		2050
92	13941	<i>Gyraulius circumstriatus</i>	7758987	10	LC50/MOR//		LAB/I	3	100	7.85	21		2050
92	14003	<i>Hydra vulgaris</i>	7758987	0.01	EC50/FDB/DEC/	polyps, budding, non-budding	LAB/R/C	2	108	7.45	20		18616
92	14007	<i>Hydra vulgaris</i>	7758987	0.19	LC50/MOR/INC/	polyps, budding, non-budding	LAB/C	2	108	7.5	20		18616
92	14008	<i>Hydra vulgaris</i>	7758987	0.08	LC50/MOR/INC/	polyps, budding, non-budding	LAB/C	3	108	7.5	20		18616

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
92	14172	<i>Limnodrilus hoffmeisteri</i>	7758987	0.59	LC50/MOR//		LAB//I	2	100	7.85	21		2050
92	14173	<i>Limnodrilus hoffmeisteri</i>	7758987	0.42	LC50/MOR//		LAB//I	3	100	7.85	21		2050
92	14659	<i>Philodina acuticornis</i>	7758987	5.8	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
92	14662	<i>Philodina acuticornis</i>	7758987	5.4	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
92	14681	<i>Physa heterostropha</i>	7758987	0.069	LC50/MOR//	adult, 12-15 mm	LAB//I	2	100	7.8	21		3692
92	14682	<i>Physa heterostropha</i>	7758987	0.069	LC50/MOR//	adult, 12-15 mm	LAB//I	3	100	7.8	21		3692
92	14685	<i>Physa heterostropha</i>	7758987	0.013	LC50/MOR//	young, 3-6 mm	LAB//I	2	100	7.8	21		3692
92	14686	<i>Physa heterostropha</i>	7758987	0.013	LC50/MOR//	young, 3-6 mm	LAB//I	3	100	7.8	21		3692
92	14689	<i>Physa heterostropha</i>	7758987	0.053	LC50/MOR//	young, 3-6 mm	LAB//I	2	100	7.8	21	uncooked wheatena present in dilution water as organic	3692
92	14690	<i>Physa heterostropha</i>	7758987	0.053	LC50/MOR//	young, 3-6 mm	LAB//I	3	100	7.8	21	uncooked wheatena present in dilution water as organic	3692
93	Non-arthropod invertebrates exposed to copper in moderately hard water at >15degC over <=1 day exposure												
93	10536	<i>Biomphalaria glabrata</i>	3251238	0.14	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	0.33	100	7.6	20		5268
93	10537	<i>Biomphalaria glabrata</i>	3251238	0.09	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	0.75	100	7.6	20		5268
93	10538	<i>Biomphalaria glabrata</i>	3251238	0.08	LC50/MOR//	100 d, 14 mm diameter	LAB/S/I	1	100	7.6	20		5268
93	12922	<i>Brachionus calyciflorus</i>	7758987	0.0282	EC50/BEH/DEC/	neonates	LAB/S/C	0.09	90	7.6	23.5		20070
93	12923	<i>Brachionus calyciflorus</i>	7758987	0.0208	EC50/BEH/DEC/	neonates	LAB/S/C	0.09	90	7.6	23.5		20070
93	12924	<i>Brachionus calyciflorus</i>	7758987	0.0242	EC50/BEH/DEC/	neonates	LAB/S/C	0.26	90	7.6	23.5		20070
93	12925	<i>Brachionus calyciflorus</i>	7758987	0.0323	EC50/BEH/DEC/	neonates	LAB/S/C	0.26	90	7.6	23.5		20070
93	12936	<i>Brachionus calyciflorus</i>	7758987	0.38	LC50/MOR//	6-24 h, neonate	LAB/S/I	1	90	7.6	25		9597
93	12937	<i>Brachionus calyciflorus</i>	7758987	0.076	LC50/MOR//	6-24 h, neonate	LAB/S/I	1	90	7.6	25		9597

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
93	15960	<i>Brachionus calyciflorus</i>	7758987	0.0138	/BEH/CHG/MULT	neonates	LAB/S/C	0.13	90	7.6	23.5		20070
93	16425	<i>Brachionus calyciflorus</i>	7758987	0.0138	/MOR/INC/	neonates	LAB/S/C	0.13	90	7.6	23.5		20070
93	13004	<i>Brachionus rubens</i>	7758987	0.019	LC50/MOR//	neonate, female, 136 um x 89 um	LAB/S/S	1	90	7.6	25		310
93	13005	<i>Brachionus rubens</i>	7758987	0.0094	NOEC/MOR//	neonate, female, 136 um x 89 um	LAB/S/S	1	90	7.6	25		310
93	13006	<i>Brachionus rubens</i>	7758987	0.0094	NOEC/MOR//	neonate, female, 136 um x 89 um	LAB/S/S	1	90	7.6	25		310
93	13939	<i>Gyraulius circumstriatus</i>	7758987	1	LC50/MOR//		LAB/I	1	100	7.85	21		2050
93	14006	<i>Hydra vulgaris</i>	7758987	0.41	LC50/MOR/INC/	polyps, budding, non-budding	LAB/C	1	108	7.5	20		18616
93	16685	<i>Ichthyophthirius multifiliis</i>	7758987	0.155	/MOR/INC/		LAB/S/	1	76.4	7.1	29		4930
93	14067	<i>Lampsilis fasciola</i>	7758987	0.046	LC50/MOR/INC/	glochidia	LAB/S/C	1	75	7.9	20		18130
93	14171	<i>Limnodrilus hoffmeisteri</i>	7758987	3.8	LC50/MOR//		LAB/I	1	100	7.85	21		2050
93	14658	<i>Philodina acuticornis</i>	7758987	5.8	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019
93	14663	<i>Philodina acuticornis</i>	7758987	6.4	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019
93	14680	<i>Physa heterostropha</i>	7758987	0.143	LC50/MOR//	adult, 12-15 mm	LAB/I	1	100	7.8	21		3692
93	14684	<i>Physa heterostropha</i>	7758987	0.034	LC50/MOR//	young, 3-6 mm	LAB/I	1	100	7.8	21		3692
93	14688	<i>Physa heterostropha</i>	7758987	0.143	LC50/MOR//	young, 3-6 mm	LAB/I	1	100	7.8	21	uncooked wheatena present in dilution water as organic	3692
94	Non-arthropod invertebrates exposed to copper in soft water at >15degC over 3-30 days exposure												
94	12758	<i>Acrossocheilus paradoxus</i>	7758987	0.0258	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	4	34	7.35	22		18913
94	10864	<i>Amnicola</i>	7440508	9.3	LC50/MOR//	egg	LAB/S/I	4	50	7.6	17		2020
94	10866	<i>Amnicola</i>	7440508	0.9	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
94	11262	<i>Dugesia tigrina</i>	7440508	2.45	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
94	13827	<i>Dugesia tigrina</i>	7758987	1.77	LC50/MOR//		LAB/S/I	4	40	7.5	23	for other water chemistry see paper	6154
94	14177	<i>Lumbriculus variegatus</i>	7758987	0.15	LC50/MOR/INC/		LAB/S/C	4	30	7.5	20		6502

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
94	14178	<i>Lumbriculus variegatus</i>	7758987	0.035	LC50/MOR//	7 mg	LAB/F/I	10	45.5	7.9	22.2		8835
94	11360	<i>Nais</i>	7440508	0.09	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
94	12534	<i>Oziotelphusa senex senex</i>	7447394	0.1	/BCM/CHG/SIG	adult, 30-32 g	LAB/R/S	4	35	7.1	30		13745
94	12535	<i>Oziotelphusa senex senex</i>	7447394	0.1	/BCM/CHG/SIG	adult, 30-32 g	LAB/R/S	4	35	7.1	30		13745
94	14666	<i>Philodina acuticornis</i>	7758987	0.6	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
94	14667	<i>Philodina acuticornis</i>	7758987	0.7	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
94	14695	<i>Physa heterostropha</i>	7758987	0.016	LC50/MOR//	young, 3-6 mm	LAB/I	4	20	7.3	21		3692
94	14699	<i>Physa heterostropha</i>	7758987	0.034	LC50/MOR//	young, 3-6 mm	LAB/I	4	20	7.3	21	uncooked wheatena present in dilution water as organic	3692
94	14701	<i>Physastra gibbosa</i>	7758987	0.041	LC50/MOR/INC/		LAB/R/	4	54	7.5	25		9957
94	14702	<i>Physastra gibbosa</i>	7758987	0.031	LC50/MOR/INC/		LAB/R/	8	54	7.5	25		9957
94	17074	<i>Physella gyrina</i>	7758998	0.038	LC50/MOR/INC/		LAB/R/C	7	10.25	7	25		9058
94	17139	<i>Physella gyrina</i>	7758998	0.0491	/GRO/NEF/NOSIG		LAB/R/C	7	10.25	7	25		9058
94	15862	<i>Viviparus bengalensis</i>	7758987	0.96	LC50/MOR//	26-28 mm, 2.5-3.5 g	LAB/R/I	4	52	7.45	30		5179
94	11618	<i>Zygoptera</i>	7440508	4.6	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
95	Non-arthropod invertebrates exposed to copper in soft water at >15degC over 1-3 days exposure												
95	12757	<i>Acrossocheilus paradoxus</i>	7758987	0.0333	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	2	34	7.35	22		18913
95	12769	<i>Aeolosoma headleyi</i>	7758987	1.65	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
95	12770	<i>Aeolosoma headleyi</i>	7758987	1	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
95	12816	<i>Anculosa</i>	7758987	0.3	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
95	12817	<i>Anculosa</i>	7758987	0.21	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
95	16414	<i>Barytelphusa cunicularis</i>	7758987	10	/BCM//	mature, 115 g	LAB/S	2.5	6.4	7.2	22		6549
95	13815	<i>Dreissena polymorpha</i>	7758987	5.38	LC50/MOR/INC/	20-25 mm	LAB/S/S	2	40	7.7	17		4175
95	13816	<i>Dreissena polymorpha</i>	7758987	4	LC50/MOR/INC/	5-8 mm	LAB/S/S	2	40	7.7	17		4175
95	13826	<i>Dugesia tigrina</i>	7758987	9.36	LC50/MOR//		LAB/S/I	2	40	7.5	23	for other water chemistry see paper	6154

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
95	14176	<i>Lumbriculus variegatus</i>	7758987	0.23	LC50/MOR/INC/		LAB/S/C	2	30	7.5	20		6502
95	14396	<i>Obliquaria reflexa</i>	7758987	20	LC50/MOR/INC/	30-50 mm	LAB/S/S	2	40	7.7	17		4175
95	14665	<i>Philodina acuticornis</i>	7758987	0.8	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
95	14668	<i>Philodina acuticornis</i>	7758987	1	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
95	14693	<i>Physa heterostropha</i>	7758987	0.019	LC50/MOR//	young, 3-6 mm	LAB//I	2	20	7.3	21		3692
95	14694	<i>Physa heterostropha</i>	7758987	0.018	LC50/MOR//	young, 3-6 mm	LAB//I	3	20	7.3	21		3692
95	14697	<i>Physa heterostropha</i>	7758987	0.034	LC50/MOR//	young, 3-6 mm	LAB//I	2	20	7.3	21	uncooked wheatena present in dilution water as organic	3692
95	14698	<i>Physa heterostropha</i>	7758987	0.034	LC50/MOR//	young, 3-6 mm	LAB//I	3	20	7.3	21	uncooked wheatena present in dilution water as organic	3692
95	15696	<i>Spirostomum ambiguum</i>	7758987	0.0048	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
95	15698	<i>Spirostomum ambiguum</i>	7758987	0.0064	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
95	15788	<i>Tubifex tubifex</i>	7758987	0.21	LC50/MOR//		LAB/R/S	2	34.2	7.2	20	mg, po4, and ca	8905
95	15792	<i>Tubifex tubifex</i>	7758987	0.0064	LC50/MOR//		LAB/R/S	2	0.1	6.3	20		8905
95	15794	<i>Tubifex tubifex</i>	7758987	0.21	LC50/MOR//		LAB/R/S	2	34.2	6.85	20	mg, po4 and ca	8905
96	Non-arthropod invertebrates exposed to copper in soft water at >15degC over <=1 day exposure												
96	12756	<i>Acrossocheilus paradoxus</i>	7758987	0.044	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
96	15894	<i>Acrossocheilus paradoxus</i>	7758987	0.1	NR-LETH/MOR/DEC/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
96	12774	<i>Aeolosoma headleyi</i>	7758987	1.8	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
96	12775	<i>Aeolosoma headleyi</i>	7758987	1.6	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
96	10863	<i>Ammicola</i>	7440508	4.5	LC50/MOR//	egg	LAB/S/I	1	50	7.6	17		2020
96	10865	<i>Ammicola</i>	7440508	1.5	LC50/MOR//	adult	LAB/S/I	1	50	7.6	17		2020
96	12811	<i>Anculosa</i>	7758987	0.56	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
96	12812	<i>Anculosa</i>	7758987	0.48	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
96	16413	<i>Barytelphusa cunicularis</i>	7758987	10	/PHY//	mature, 115 g	LAB//S	0.26	6.4	7.2	22		6549
96	12930	<i>Brachionus calyciflorus</i>	7758987	0.2	LC50/MOR//	juvenile	LAB/S/S	1	36.2	7.3	20		3091

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
96	13825	<i>Dugesia tigrina</i>	7758987	10	LC50/MOR//		LAB/S/I	1	40	7.5	23	for other water chemistry see paper	6154
96	11359	<i>Nais</i>	7440508	2.3	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
96	14664	<i>Philodina acuticornis</i>	7758987	1.5	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
96	14669	<i>Philodina acuticornis</i>	7758987	1.9	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
96	14692	<i>Physa heterostropha</i>	7758987	0.046	LC50/MOR//	young, 3-6 mm	LAB/I	1	20	7.3	21		3692
96	14696	<i>Physa heterostropha</i>	7758987	0.143	LC50/MOR//	young, 3-6 mm	LAB/I	1	20	7.3	21	uncooked wheatena present in dilution water as organic	3692
96	17075	<i>Posthodiplostomum minimum</i>	7758998	0.032	LC50/MOR/INC/		LAB/R/C	0.38	10.2	7.405	25		9058
96	17076	<i>Posthodiplostomum minimum</i>	7758998	0.026	LC50/MOR/INC/		LAB/R/C	0.5	10.2	7.405	25		9058
96	16987	<i>Protozoa</i>	7758987	0.5	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
96	16988	<i>Protozoa</i>	7758987	1	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
96	16989	<i>Protozoa</i>	7758987	50	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
96	15616	<i>Pyganodon grandis</i>	7758987	0.046	LC50/MOR/INC/	glochidia	LAB/S/C	1	50	7.9	20		18130
96	15695	<i>Spirostomum ambiguum</i>	7758987	0.0043	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
96	15697	<i>Spirostomum ambiguum</i>	7758987	0.0064	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
96	15791	<i>Tubifex tubifex</i>	7758987	0.01	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
96	15793	<i>Tubifex tubifex</i>	7758987	0.36	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	mg, po4 and ca	8905
96	15795	<i>Tubifex tubifex</i>	7758987	1	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	mg, po4 and ca	8905
96	15835	<i>Villosa iris</i>	7758987	0.055	LC50/MOR/INC/	glochidia	LAB/S/C	1	55	7.9	20		18130
96	15836	<i>Villosa iris</i>	7758987	0.038	LC50/MOR/INC/	glochidia	LAB/S/C	1	55	7.9	20		18130
96	15837	<i>Villosa iris</i>	7758987	0.071	LC50/MOR/INC/	glochidia	LAB/S/C	1	50	7.9	20		18130
96	15861	<i>Viviparus bengalensis</i>	7758987	1.36	LC50/MOR//	26-28 mm, 2.5-3.5 g	LAB/R/I	1	52	7.45	30		5179
96	11617	<i>Zygoptera</i>	7440508	10.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
97	Non-arthropod invertebrates exposed to copper in very hard water at >15degC over 3-30 days exposure												
97	14014	<i>Hydra vulgaris</i>	7758987	0.032	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	4	204	7.8	20		50836
97	10657	<i>Lumbriculus variegatus</i>	3251238	0.13	LC50/MOR//	mixed age adults	LAB/I	4	290	6.57	25		7289

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
97	10658	<i>Lumbriculus variegatus</i>	3251238	0.27	LC50/MOR//	mixed age adults	LAB//I	4	290	7.29	25		7289
97	14204	<i>Lymnaea acuminata</i>	7758987	0.034	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	4	375	7.5	27.5	water chem profile rptd	11099
97	14208	<i>Lymnaea acuminata</i>	7758987	0.034	LC50/MOR/INC/	0.550 (0.450-0.810) g,	LAB/S/C	4	240	7.5	26.5		3527
97	14215	<i>Lymnaea luteola</i>	7758987	0.172	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	4	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
97	15850	<i>Viviparus bengalensis</i>	7758987	0.39	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	4	190	7.7	20.3	conductivity 820(700-950) umcm	15716
97	15855	<i>Viviparus bengalensis</i>	7758987	0.066	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	4	205	7.6	24	conductivity 880(700-950) umcm	15716
97	15866	<i>Viviparus bengalensis</i>	7758987	0.088	LC50/MOR/INC/	1.916 (1.10-3.850)g,	LAB/S/C	4	240	7.5	26.5		3527
98	Non-arthropod invertebrates exposed to copper in very hard water at >15degC over 1-3 days exposure												
98	13810	<i>Dero limosa</i>	7758987	0.064	LT50/MOR//		LAB/R/S	1.25	182	7.775	19	oxidizeability, nh4, cao, mgo	2565
98	13811	<i>Dero limosa</i>	7758987	0.032	LT50/MOR//		LAB/R/S	2	182	7.775	19	oxidizeability, nh4, cao, mgo	2565
98	13812	<i>Dero limosa</i>	7758987	0.016	LT50/MOR//		LAB/R/S	2.33	182	7.775	19	oxidizeability, nh4, cao, mgo	2565
98	14012	<i>Hydra vulgaris</i>	7758987	0.054	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	2	204	7.8	20		50836
98	14013	<i>Hydra vulgaris</i>	7758987	0.038	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	3	204	7.8	20		50836
98	14202	<i>Lymnaea acuminata</i>	7758987	0.049	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	2	375	7.5	27.5	water chem profile rptd	11099
98	14203	<i>Lymnaea acuminata</i>	7758987	0.039	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	3	375	7.5	27.5	water chem profile rptd	11099
98	14207	<i>Lymnaea acuminata</i>	7758987	0.049	LC50/MOR/INC/	0.550 (0.450-0.810) g,	LAB/S/C	2	240	7.5	26.5		3527
98	14214	<i>Lymnaea luteola</i>	7758987	0.341	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	2	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
98	16352	<i>Tetrahymena thermophila</i>	7758987	5.25	/MOR/CHG/	2.0 e+5 cells/ml	LAB/S/C	2.5	211	7	27		13734
98	15790	<i>Tubifex tubifex</i>	7758987	0.89	LC50/MOR//		LAB/R/S	2	261	7.32	20	mg, po4, and ca	8905
98	15848	<i>Viviparus bengalensis</i>	7758987	7.8	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	2	190	7.7	20.3	conductivity 820(700-950) umcm	15716
98	15849	<i>Viviparus bengalensis</i>	7758987	0.85	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	3	190	7.7	20.3	conductivity 820(700-950) umcm	15716
98	15853	<i>Viviparus bengalensis</i>	7758987	1.27	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	2	205	7.6	24	conductivity 880(700-950) umcm	15716
98	15854	<i>Viviparus bengalensis</i>	7758987	0.084	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	3	205	7.6	24	conductivity 880(700-950) umcm	15716
98	15865	<i>Viviparus bengalensis</i>	7758987	0.27	LC50/MOR/INC/	1.916 (1.10-3.850)g,	LAB/S/C	2	240	7.5	26.5		3527
99	Non-arthropod invertebrates exposed to copper in very hard water at >15degC over <=1 day exposure												
99	13801	<i>Dero limosa</i>	7758987	130	LT50/MOR//		LAB/R/S	0.02	182	7.8	19	oxidizeability, nh4, cao, mgo	2565
99	13802	<i>Dero limosa</i>	7758987	64	LT50/MOR//		LAB/R/S	0.03	182	7.8	19	oxidizeability, nh4, cao, mgo	2565
99	13803	<i>Dero limosa</i>	7758987	32	LT50/MOR//		LAB/R/S	0.03	182	7.8	19	oxidizeability, nh4, cao, mgo	2565
99	13804	<i>Dero limosa</i>	7758987	16	LT50/MOR//		LAB/R/S	0.06	182	7.8	19	oxidizeability, nh4, cao, mgo	2565
99	13805	<i>Dero limosa</i>	7758987	8.2	LT50/MOR//		LAB/R/S	0.17	182	7.8	19	oxidizeability, nh4, cao, mgo	2565
99	13806	<i>Dero limosa</i>	7758987	41	LT50/MOR//		LAB/R/S	0.17	182	7.8	19	oxidizeability, nh4, cao, mgo	2565
99	13807	<i>Dero limosa</i>	7758987	21	LT50/MOR//		LAB/R/S	0.21	182	7.8	19	oxidizeability, nh4, cao, mgo	2565
99	13808	<i>Dero limosa</i>	7758987	0.26	LT50/MOR//		LAB/R/S	0.5	182	7.775	19	oxidizeability, nh4, cao, mgo	2565
99	13809	<i>Dero limosa</i>	7758987	0.13	LT50/MOR//		LAB/R/S	1	182	7.775	19	oxidizeability, nh4, cao, mgo	2565
99	14011	<i>Hydra vulgaris</i>	7758987	0.11	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	1	204	7.8	20		50836
99	14201	<i>Lymnaea acuminata</i>	7758987	0.102	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	1	375	7.5	27.5	water chem profile rptd	11099

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
99	14205	<i>Lymnaea acuminata</i>	7758987	0.169	LC50/MOR/INC/	0.550 (0.450-0.810) g,	LAB/S/C	0.5	240	7.5	26.5		3527
99	14206	<i>Lymnaea acuminata</i>	7758987	0.102	LC50/MOR/INC/	0.550 (0.450-0.810) g,	LAB/S/C	1	240	7.5	26.5		3527
99	14212	<i>Lymnaea luteola</i>	7758987	0.902	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	0.5	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
99	14213	<i>Lymnaea luteola</i>	7758987	0.491	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	1	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
99	16777	<i>Nais</i>	7758987	5	/MOR/INC/	3 species	LAB/S/K	0.38	320	7.35	20		10301
99	15789	<i>Tubifex tubifex</i>	7758987	1.38	LC50/MOR//		LAB/R/S	1	261	7.32	20	mg, po4, and ca	8905
99	15846	<i>Viviparus bengalensis</i>	7758987	15	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	0.5	190	7.7	20.3	conductivity 820(700-950) umcm	15716
99	15847	<i>Viviparus bengalensis</i>	7758987	13.93	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	1	190	7.7	20.3	conductivity 820(700-950) umcm	15716
99	15851	<i>Viviparus bengalensis</i>	7758987	5.02	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	0.5	205	7.6	24	conductivity 880(700-950) umcm	15716
99	15852	<i>Viviparus bengalensis</i>	7758987	2.15	LC50/MOR//	2.5(2.30-2.85) cm shell length,	LAB/R/S	1	205	7.6	24	conductivity 880(700-950) umcm	15716
99	15863	<i>Viviparus bengalensis</i>	7758987	2.16	LC50/MOR/INC/	1.916 (1.10-3.850)g,	LAB/S/C	0.5	240	7.5	26.5		3527
99	15864	<i>Viviparus bengalensis</i>	7758987	1.33	LC50/MOR/INC/	1.916 (1.10-3.850)g,	LAB/S/C	1	240	7.5	26.5		3527
100	Vertebrates exposed to copper in hard water at <15degC over 3-30 days exposure												
100	12268	<i>Oncorhynchus clarki</i>	7447394	0.091	LC50/MOR//	5.2 g, 8.5 cm	LAB/F/S	4	160	7.53	13.6	see paper for more water chemistry parameters	2063
100	14399	<i>Oncorhynchus clarki henshawi</i>	7758987	0.07	LC50/MOR/INC/	0.46 g	LAB/S/C	4	170	8	12		65396
100	14402	<i>Oncorhynchus clarkii stomias</i>	7758987	0.03	LC50/MOR/INC/	0.31 g	LAB/S/C	4	170	8	12		65396
100	14405	<i>Oncorhynchus gilae apache</i>	7758987	0.07	LC50/MOR/INC/	0.62 g	LAB/S/C	4	170	8	12		65396

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
100	14479	<i>Oncorhynchus mykiss</i>	7758987	0.12	LC50/MOR//	juvenile	LAB/S/S	4	132.5	7.55	15	trc, ca, mg, na, k, so4, conductivity	5468
100	14546	<i>Oncorhynchus mykiss</i>	7758987	0.2	LC50/MOR/INC/	juvenile,3.9 g wet wt,0.94 g dry wt	LAB/F/C	4	125	7.8	10		2065
100	14547	<i>Oncorhynchus mykiss</i>	7758987	0.19	LC50/MOR/INC/	juvenile,29.1g wet wt,6.76 g dry wt	LAB/F/C	4	125	7.8	10		2065
100	14548	<i>Oncorhynchus mykiss</i>	7758987	0.21	LC50/MOR/INC/	juvenile,176 g wet wt,46.0 g dry wt	LAB/F/C	4	125	7.8	10		2065
100	14553	<i>Oncorhynchus mykiss</i>	7758987	0.08	LC50/MOR/INC/	0.71 g	LAB/S/C	4	170	8	12		65396
100	14570	<i>Oncorhynchus mykiss</i>	7758987	0.012	LOEC/GRO/DEC/SIG	sacfry, 9-11 d, 102.4-110.3 mg wt	LAB/R/C	15	135	7.4	15		17849
100	14584	<i>Oncorhynchus mykiss</i>	7758987	0.006	NOEC/GRO/DEC/NOSIG	sacfry, 9-11 d, 102.4-110.3 mg wt	LAB/R/C	15	135	7.4	15		17849
100	16185	<i>Oncorhynchus mykiss</i>	7758987	0.091	/MOR/INC/	sacfry, 9-11 d, 102.4-110.3 mg wt	LAB/R/C	15	135	7.4	15		17849
100	16186	<i>Oncorhynchus mykiss</i>	7758987	0.0455	/PHY/CHG/NOSIG	sacfry, 9-11 d, 102.4-110.3 mg wt	LAB/R/C	15	135	7.4	15		17849
100	16187	<i>Oncorhynchus mykiss</i>	7758987	0.0165	/MOR/INC/	fry, 83.3-91.5 mg wet wt	LAB/R/C	10	135	7.4	15		17849
100	16188	<i>Oncorhynchus mykiss</i>	7758987	0.0455	/FDB/CHG/	sacfry,9-11 d,102.4-110.3 mg wet wt	LAB/R/C	15	135	7.4	15		17849
100	16790	<i>Oncorhynchus mykiss</i>	7758987	0.0165	/GRO/DEC/	fry, 83.3-91.5 mg wet wt	LAB/R/C	10	135	7.4	15		17849
100	16804	<i>Oncorhynchus mykiss</i>	7758987	0.086	/MOR//	6-18 mo	LAB/F/S	7	135	7.7	11	conductivity 241 umhocm2	15460
100	11464	<i>Oncorhynchus tshawytscha</i>	7440508	0.1	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	4	165	7.4	12		2062
101	Vertebrates exposed to copper in hard water at >15degC over 3-30 days exposure												
101	13116	<i>Catostomus latipinnis</i>	7758987	0.175	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	4	144	7.65	25		18979
101	11747	<i>Channa punctata</i>	7440508	3	/BCM/CHG/MULT	15 cm, 60 g	LAB//K	22.5	156	7.2	20		16936
101	11748	<i>Channa punctata</i>	7440508	3	/BCM/DEC/SIG	15 cm, 60 g	LAB//K	22.5	156	7.2	20		16936
101	11749	<i>Channa punctata</i>	7440508	3	/ENZ/INC/SIG	15 cm, 60 g	LAB//K	22.5	156	7.2	20		16936
101	13427	<i>Cyprinus carpio</i>	7758987	34.5	LC50/MOR//	1.8-2.1 cm, 78-195 mg	LAB/S/I	4	166	6.6	19.5		597
101	13428	<i>Cyprinus carpio</i>	7758987	160	LC50/MOR//	5.0-6.0 cm, 2880-3660 mg	LAB/S/I	4	166	6.6	19.5		597
101	13938	<i>Gila elegans</i>	7758987	0.22	LC50/MOR/INC/	0.41 g	LAB/S/C	4	170	8	22		65396

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
101	13951	<i>Heteropneustes fossilis</i>	7758987	9.44	LC50/MOR//	11.36 g, 11.75 cm	LAB/S/I	4	128	7.55	22	conductivity 314(311-319) umhos/cm	3728
101	14087	<i>Lepomis gibbosus</i>	7758987	1.24	LC50/MOR/INC/	1.2(0.8-1.3) g wet wt, 0.24 g dry wt	LAB/F/C	4	125	7.2	21		2065
101	14088	<i>Lepomis gibbosus</i>	7758987	1.3	LC50/MOR/INC/	2.2(1.4-3.5) g wet wt, 0.47 g dry wt	LAB/F/C	4	125	7.2	21		2065
101	14089	<i>Lepomis gibbosus</i>	7758987	1.67	LC50/MOR/INC/	4.5(3.6-6.0) g wet wt, 1.00 dry wt	LAB/F/C	4	125	7.2	21		2065
101	14090	<i>Lepomis gibbosus</i>	7758987	1.94	LC50/MOR/INC/	7.6(6.1-15.0) g wet wt, 1.85 dry wt	LAB/F/C	4	125	7.2	21		2065
101	14091	<i>Lepomis gibbosus</i>	7758987	1.66	LC50/MOR/INC/	2.8 wet wt, 0.63 dry wt	LAB/F/C	4	125	7.2	21		2065
101	14092	<i>Lepomis gibbosus</i>	7758987	1.74	LC50/MOR/INC/	5.3 wet wt, 1.32 dry wt	LAB/F/C	4	125	7.2	21		2065
101	14093	<i>Lepomis gibbosus</i>	7758987	1.24	LC50/MOR/INC/	2.2 g wet wt, 0.43 g dry wt	LAB/F/C	4	125	7.2	21		2065
101	14128	<i>Lepomis macrochirus</i>	7758987	0.6	LC50/MOR//		LAB/F/S	4	125	7.4	21	see paper	15273
101	14322	<i>Microhyla ornata</i>	7758987	5.04	LC50/MOR/INC/	1 wk tadpoles, 1.2-1.3 cm	LAB/R/C	4	143.75	6.9	25.75		6357
101	14326	<i>Microhyla ornata</i>	7758987	5.38	LC50/MOR/INC/	4 wk tadpoles	LAB/R/C	4	143.75	6.9	25.75		6357
101	14378	<i>Mystus bleekeri</i>	7758987	0.85	LC50/MOR//	2.90 g, 7.70 cm	LAB/R/I	4	128	7.55	21.5	conductivity, cl2, so4, cu, cd, pb	15424
101	11505	<i>Pimephales promelas</i>	7440508	2.8	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	150	7.9	21.5	field collected water	8320
101	11529	<i>Pimephales promelas</i>	7440508	2.336	LC50/MOR//		LAB/F/I	4	121	7.28	25		5081
101	14923	<i>Pimephales promelas</i>	7758987	2.8	LC50/MOR//	20-71 mm	LAB/S/S	4	150	7.9	21.5	see paper	2071
101	14924	<i>Pimephales promelas</i>	7758987	2.8	LC50/MOR//	20-71 mm	LAB/S/S	7	150	7.9	21.5	see paper	2071
101	15241	<i>Pimephales promelas</i>	7758987	0.47	LC50/MOR/INC/	0.41 g	LAB/S/C	4	170	8	22		65396
101	12411	<i>Poecilia reticulata</i>	7447394	0.066	LC50/MOR//	0.1 g, mature	LAB/F/S	4	124	7	25		2137
101	15465	<i>Poecilia reticulata</i>	7758987	47	LC50/MOR//	0.8-1.0 cm, 5.567 mg	LAB/S/I	4	166	6.6	19.5		597
101	15466	<i>Poecilia reticulata</i>	7758987	80.7	LC50/MOR//	1.2-2.3 cm, 43.7-74.0 mg	LAB/S/I	4	166	6.6	19.5		597
101	15467	<i>Poecilia reticulata</i>	7758987	141	LC50/MOR//	2.3-2.8 cm, 323.8-463.0 mg	LAB/S/I	4	166	6.6	19.5		597

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
101	15496	<i>Poecilia reticulata</i>	7758987	0.986	LC50/MOR//	15 (12-17) mm, 184 (160-200) mg	LAB/R/S	4	175	7.6	28		13023
101	15497	<i>Poecilia reticulata</i>	7758987	0.49	LC50/MOR//	15 (12-17) mm, 184 (160-200) mg	LAB/R/S	7	175	7.6	28		13023
101	15610	<i>Ptychocheilus lucius</i>	7758987	0.43	LC50/MOR/INC/		LAB/S/C	4	170	8	22		65396
101	15892	<i>Xyrauchen texanus</i>	7758987	0.27	LC50/MOR/INC/	0.32 g	LAB/S/C	4	170	8	22		65396
102	Vertebrates exposed to copper in hard water at >15degC over 1-3 days exposure												
102	13114	<i>Catostomus latipinnis</i>	7758987	0.182	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	2	144	7.65	25		18979
102	13115	<i>Catostomus latipinnis</i>	7758987	0.182	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	3	144	7.65	25		18979
102	16460	<i>Channa punctata</i>	7758987	20.6	/ENZ//	15 cm, 60 g	LAB/R/I	2	170	7.5	27		5461
102	16463	<i>Channa punctata</i>	7758987	22	/ENZ//	15 cm, 60 g	LAB/R/I	2	170	7.5	26		7684
102	16476	<i>Clarias batrachus</i>	7758987	11.2	/ENZ//	14 cm, 50 g	LAB/R/I	2	170	7.5	27		5461
102	16479	<i>Clarias batrachus</i>	7758987	12	/ENZ//	14 cm, 50 g	LAB/R/I	2	170	7.5	26		7684
102	13455	<i>Danio rerio</i>	7758987	0.6	LC50/MOR//		LAB/F/I	2	180	8	20		5938
102	13949	<i>Heteropneustes fossilis</i>	7758987	14.83	LC50/MOR//	11.36 g, 11.75 cm	LAB/S/I	2	128	7.55	22	conductivity 314(311-319) umhoscm	3728
102	13950	<i>Heteropneustes fossilis</i>	7758987	12.4	LC50/MOR//	11.36 g, 11.75 cm	LAB/S/I	3	128	7.55	22	conductivity 314(311-319) umhoscm	3728
102	13958	<i>Heteropneustes fossilis</i>	7758987	7.2	LETC/MOR//	11.36 g, 11.75 cm	LAB/S/I	2	128	7.55	22	conductivity 314(311-319) umhoscm	3728
102	13966	<i>Heteropneustes fossilis</i>	7758987	6.7	MATC/MOR//	11.36 g, 11.75 cm	LAB/S/I	2	128	7.55	22	conductivity 314(311-319) umhoscm	3728
102	16117	<i>Ictalurus punctatus</i>	7758987	28	/MOR/INC/	4.4 (3.0-5.6) g, 64 (55-70) mm,	LAB//	1.38	135	7.38	20		14695
102	14320	<i>Microhyla ornata</i>	7758987	5.31	LC50/MOR/INC/	1 wk tadpoles, 1.2-1.3 cm	LAB/R/C	2	143.75	6.9	25.75		6357
102	14321	<i>Microhyla ornata</i>	7758987	5.14	LC50/MOR/INC/	1 wk tadpoles, 1.2-1.3 cm	LAB/R/C	3	143.75	6.9	25.75		6357
102	14324	<i>Microhyla ornata</i>	7758987	5.74	LC50/MOR/INC/	4 wk tadpoles	LAB/R/C	2	143.75	6.9	25.75		6357
102	14325	<i>Microhyla ornata</i>	7758987	5.54	LC50/MOR/INC/	4 wk tadpoles	LAB/R/C	3	143.75	6.9	25.75		6357
102	11351	<i>Morone saxatilis</i>	7440508	0.42	LC50/MOR/INC/	fry	LAB/C	2	137	7.8	17		9872
102	11353	<i>Morone saxatilis</i>	7440508	0.31	LC50/MOR/INC/	fry	LAB/C	2	137	7.8	17		9872
102	11355	<i>Morone saxatilis</i>	7440508	0.12	LC50/MOR/INC/	fry	LAB/C	2	137	7.8	17		9872

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
102	14376	<i>Mystus bleekeri</i>	7758987	1.85	LC50/MOR//	2.90 g, 7.70 cm	LAB/R/I	2	128	7.55	21.5	conductivity, cl2, so4, cu, cd, pb	15424
102	14377	<i>Mystus bleekeri</i>	7758987	0.95	LC50/MOR//	2.90 g, 7.70 cm	LAB/R/I	3	128	7.55	21.5	conductivity, cl2, so4, cu, cd, pb	15424
102	14724	<i>Pimephales notatus</i>	7758987	5.8	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	134	7.7	24		2071
102	14738	<i>Pimephales notatus</i>	7758987	0.66	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	170	7.9	24	ca, mg	2071
102	14812	<i>Pimephales notatus</i>	7758987	0.15	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	132	7.7	24	ca, mg	2071
102	14985	<i>Pimephales promelas</i>	7758987	3.3	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	158	7.7	24	ca, mg	2071
102	15001	<i>Pimephales promelas</i>	7758987	0.66	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	170	7.9	24		2071
102	15495	<i>Poecilia reticulata</i>	7758987	1.8	LC50/MOR//	15 (12-17) mm, 184 (160-200) mg	LAB/R/S	2	175	7.6	28		13023
103	Vertebrates exposed to copper in hard water at >15degC over <=1 day exposure												
103	13113	<i>Catostomus latipinnis</i>	7758987	0.242	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	1	144	7.65	25		18979
103	13478	<i>Danio rerio</i>	7758987	67.5	LC50/MOR/INC/	2.5 cm	LAB/S/V	0.08	150	7.9	22		17456
103	13479	<i>Danio rerio</i>	7758987	67.5	LC50/MOR/INC/	2.5 cm	LAB/S/V	0.17	150	7.9	22		17456
103	13480	<i>Danio rerio</i>	7758987	67.5	LC50/MOR/INC/	2.5 cm	LAB/S/V	0.25	150	7.9	22		17456
103	13481	<i>Danio rerio</i>	7758987	6.75	LC50/MOR/INC/	2.5 cm	LAB/S/V	1	150	7.9	22		17456
103	13936	<i>Gila elegans</i>	7758987	0.3	LC50/MOR/INC/	0.41 g	LAB/S/C	0.5	170	8	22		65396
103	13937	<i>Gila elegans</i>	7758987	0.24	LC50/MOR/INC/	0.41 g	LAB/S/C	1	170	8	22		65396
103	13948	<i>Heteropneustes fossilis</i>	7758987	28.39	LC50/MOR//	11.36 g, 11.75 cm	LAB/S/I	1	128	7.55	22	conductivity 314(311-319) umhoscm	3728
103	14319	<i>Microhyla ornata</i>	7758987	5.61	LC50/MOR/INC/	1 wk tadpoles, 1.2-1.3 cm	LAB/R/C	1	143.75	6.9	25.75		6357
103	14323	<i>Microhyla ornata</i>	7758987	6.04	LC50/MOR/INC/	4 wk tadpoles	LAB/R/C	1	143.75	6.9	25.75		6357
103	11350	<i>Morone saxatilis</i>	7440508	0.85	LC50/MOR/INC/	eggs, 24 h after fertilization	LAB//C	0.94	137	7.8	17		9872
103	11352	<i>Morone saxatilis</i>	7440508	0.74	LC50/MOR/INC/	eggs, 24 h after fertilization	LAB//C	0.94	137	7.8	17		9872
103	11354	<i>Morone saxatilis</i>	7440508	0.35	LC50/MOR/INC/	eggs, 24 h after fertilization	LAB//C	0.94	137	7.8	17		9872
103	11786	<i>Morone saxatilis</i>	7440508	2.505	/MOR/DEC/	eggs, 24 h post fertilization	LAB//C	0.94	137	7.8	17		9872

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
103	14375	<i>Mystus bleekeri</i>	7758987	4.17	LC50/MOR//	2.90 g, 7.70 cm	LAB/R/I	1	128	7.55	21.5	conductivity, cl2, so4, cu, cd, pb	15424
103	16792	<i>Oncorhynchus mykiss</i>	7758987	0.06	/PHY//		LAB/F/I	1	180	8	20		5938
103	14723	<i>Pimephales notatus</i>	7758987	5.8	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	134	7.7	24		2071
103	14737	<i>Pimephales notatus</i>	7758987	0.66	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	170	7.9	24	ca, mg	2071
103	14811	<i>Pimephales notatus</i>	7758987	0.15	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	132	7.7	24	ca, mg	2071
103	14984	<i>Pimephales promelas</i>	7758987	3.6	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	158	7.7	24	ca, mg	2071
103	15000	<i>Pimephales promelas</i>	7758987	0.66	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	170	7.9	24		2071
103	15239	<i>Pimephales promelas</i>	7758987	1.3	LC50/MOR/INC/	0.41 g	LAB/S/C	0.5	170	8	22		65396
103	15240	<i>Pimephales promelas</i>	7758987	0.73	LC50/MOR/INC/	0.41 g	LAB/S/C	1	170	8	22		65396
103	15494	<i>Poecilia reticulata</i>	7758987	2.58	LC50/MOR//	15 (12-17) mm, 184 (160-200) mg	LAB/R/S	1	175	7.6	28		13023
103	15608	<i>Ptychocheilus lucius</i>	7758987	1	LC50/MOR/INC/		LAB/S/C	0.5	170	8	22		65396
103	15609	<i>Ptychocheilus lucius</i>	7758987	0.64	LC50/MOR/INC/		LAB/S/C	1	170	8	22		65396
103	15890	<i>Xyrauchen texanus</i>	7758987	1	LC50/MOR/INC/	0.32 g	LAB/S/C	0.5	170	8	22		65396
103	15891	<i>Xyrauchen texanus</i>	7758987	0.39	LC50/MOR/INC/	0.32 g	LAB/S/C	1	170	8	22		65396
104	Vertebrates exposed to copper in moderately hard water at <15degC over 3-30 days exposure												
104	12266	<i>Oncorhynchus clarki</i>	7447394	0.162	LC50/MOR//	2.7 g, 6.8 cm	LAB/F/S	4	83	7.4	13.7	see paper for more water chemistry parameters	2063
104	12269	<i>Oncorhynchus clarki</i>	7447394	0.0444	LC50/MOR//	4.4 g, 7.7 cm	LAB/F/S	4	74.3	7.57	14.1	see paper for more water chemistry parameters	2063
104	14406	<i>Oncorhynchus gorbuscha</i>	7758987	0.143	LC50/MOR//	alevin, newly hatched	LAB/F/I	4	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
104	14407	<i>Oncorhynchus gorbuscha</i>	7758987	0.087	LC50/MOR//	alevin	LAB/F/I	4	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
104	14408	<i>Oncorhynchus gorbuscha</i>	7758987	0.199	LC50/MOR//	fry	LAB/F/I	4	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
104	12271	<i>Oncorhynchus kisutch</i>	7447394	0.074	LC50/MOR//	yearling, 10-18 mo	LAB/R/I	4	94	7.35	12		2061
104	12272	<i>Oncorhynchus kisutch</i>	7447394	0.07	LC50/MOR//	yearling, 10-18 mo	LAB/R/I	4	94	7.35	12		2061
104	12273	<i>Oncorhynchus kisutch</i>	7447394	0.06	LC50/MOR//	yearling, 10-18 mo	LAB/R/I	4	94	7.35	10		2061
104	12274	<i>Oncorhynchus kisutch</i>	7447394	0.07	LC50/MOR//	yearling, 10-18 mo	LAB/R/S	4	95	7.34	12	water parameters rpt	11146
104	12275	<i>Oncorhynchus kisutch</i>	7447394	0.074	LC50/MOR//	yearling, 10-18 mo	LAB/R/S	4	95	7.34	12	water parameters rpt	11146
104	12276	<i>Oncorhynchus kisutch</i>	7447394	0.06	LC50/MOR//	yearling, 10-18 mo	LAB/R/S	4	93	7.3	10	water parameters rpt	11146
104	12503	<i>Oncorhynchus kisutch</i>	7447394	0.0138	/MOR/DEC/	yearling	LAB/F/C	7.08	90	7.03	12.3	transferred to 30 ppt salinity seawater	15935
104	12504	<i>Oncorhynchus kisutch</i>	7447394	0.0761	NR-ZERO/MOR/NEF/	yearling	LAB/F/C	7.08	90	7.03	12.3		15935
104	12505	<i>Oncorhynchus kisutch</i>	7447394	0.0761	NR-ZERO/MOR/NEF/	yearling	LAB/F/C	7.92	90	7.03	12.3	handling, stress, confined to bucket	15935
104	12506	<i>Oncorhynchus kisutch</i>	7447394	0.0528	NR-ZERO/MOR/DEC/	yearling	LAB/F/C	7.08	90	7.03	12.3	transferred to 30 ppt salinity seawater	15935
104	12621	<i>Oncorhynchus kisutch</i>	7447394	0.0425	/ENZ/DEC/	yearling, 10-18 mo	LAB/F/C	6	91.5	7.35	11		2061
104	12625	<i>Oncorhynchus kisutch</i>	7447394	0.045	/HRM/CHG/	yearling	LAB/F/C	3.58	90	7.03	12.3		15935
104	12626	<i>Oncorhynchus kisutch</i>	7447394	0.0761	/HRM/INC/	yearling	LAB/F/C	7.08	90	7.03	12.3	handling, stress for 1 h	15935
104	12281	<i>Oncorhynchus mykiss</i>	7447394	0.08	LC50/MOR//	larvae	LAB/F/I	4	120	7.65	12		10663
104	12633	<i>Oncorhynchus mykiss</i>	7447394	0.121	/MOR//	embryo, 6 h post-fer	LAB/F/S	11	120	7.65	12		10663
104	12634	<i>Oncorhynchus mykiss</i>	7447394	0.089	/MOR//	embryo, 6 h post-fer	LAB/F/S	11	120	7.65	12		10663
104	12635	<i>Oncorhynchus mykiss</i>	7447394	0.006	/MOR//	embryo, 6 h post-fer	LAB/F/S	22	120	7.65	12		10663
104	12636	<i>Oncorhynchus mykiss</i>	7447394	0.009	/MOR//	embryo, 6 h post-fer	LAB/F/S	22	120	7.65	12		10663
104	12637	<i>Oncorhynchus mykiss</i>	7447394	0.016	/MOR//	embryo, 6 h post-fer	LAB/F/S	22	120	7.65	12		10663

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
104	12638	<i>Oncorhynchus mykiss</i>	7447394	0.031	/MOR//	embryo, 6 h post-fer	LAB/F/S	22	120	7.65	12		10663
104	12639	<i>Oncorhynchus mykiss</i>	7447394	0.057	/MOR//	embryo, 6 h post-fer	LAB/F/S	22	120	7.65	12		10663
104	12640	<i>Oncorhynchus mykiss</i>	7447394	0.121	/MOR//	embryo, 6 h post-fer	LAB/F/S	22	120	7.65	12		10663
104	14459	<i>Oncorhynchus mykiss</i>	7758987	0.09	LC50/MOR//	eggs	LAB/R/S	28	99	7.5	12.5		6199
104	14460	<i>Oncorhynchus mykiss</i>	7758987	0.12	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	24	100	7.5	12.5		2016
104	14461	<i>Oncorhynchus mykiss</i>	7758987	0.11	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	28	100	7.5	12.5		2016
104	14475	<i>Oncorhynchus mykiss</i>	7758987	0.09	LC50/MOR/INC/	eggs	LAB/R/C	28	104	7.4	13		5305
104	14481	<i>Oncorhynchus mykiss</i>	7758987	0.0239	LC50/MOR//	fry, 1 g	LAB/S/I	4	120	8	12		10656
104	14482	<i>Oncorhynchus mykiss</i>	7758987	0.0113	LC50/MOR//	fry, 1 g	LAB/S/I	4	120	8	12		10656
104	14483	<i>Oncorhynchus mykiss</i>	7758987	0.0159	LC50/MOR//	fry, 1 g	LAB/S/I	4	120	8	12		10656
104	14484	<i>Oncorhynchus mykiss</i>	7758987	0.0143	LC50/MOR//	fry, 1 g	LAB/S/I	4	120	8	12		10656
104	14485	<i>Oncorhynchus mykiss</i>	7758987	0.0113	LC50/MOR//	fry, 1 g	LAB/S/I	4	120	8	12		10656
104	14516	<i>Oncorhynchus mykiss</i>	7758987	0.11	LC50/MOR//	egg	LAB/R/S	28	101	7.35	12.5		11838
104	14545	<i>Oncorhynchus mykiss</i>	7758987	0.16	LC50/MOR/INC/	16.47 cm fl, 53.85 g	LAB/F/C	4	112	7.8	14		6116
104	14565	<i>Oncorhynchus mykiss</i>	7758987	0.054	LETC/MOR/INC/	fingerling, 8-15 g	LAB/F/	9	99	7	13		5325
104	14567	<i>Oncorhynchus mykiss</i>	7758987	0.078	LETC/MOR/INC/	fingerling, 8-15 g	LAB/F/	9	98	7.2	13		5325
104	14569	<i>Oncorhynchus mykiss</i>	7758987	0.096	LETC/MOR/INC/	fingerling, 8-15 g	LAB/F/	9	97	7.3	13		5325
104	16184	<i>Oncorhynchus mykiss</i>	7758987	0.02	/CEL/CHG/MULT	yearling	LAB/F/C	8	63	6.745	5.2		18047
104	16881	<i>Oncorhynchus mykiss</i>	7758987	0.175	/HIS/INC/	16.47 cm fl, 53.85 g	LAB/F/C	3.25	112	7.8	14		6116

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
104	14586	<i>Oncorhynchus nerka</i>	7758987	0.15	LC50/MOR//	fry	LAB/F/I	4	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
104	14587	<i>Oncorhynchus nerka</i>	7758987	0.21	LC50/MOR//	smolt, 5.5 g	LAB/F/I	4	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
104	14588	<i>Oncorhynchus nerka</i>	7758987	0.17	LC50/MOR//	smolt, 5.5 g	LAB/F/I	4	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
104	14589	<i>Oncorhynchus nerka</i>	7758987	0.19	LC50/MOR//	smolt, 5.5 g	LAB/F/I	4	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
104	14590	<i>Oncorhynchus nerka</i>	7758987	0.24	LC50/MOR//	smolt, 4.8 g	LAB/F/I	4	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
104	14591	<i>Oncorhynchus nerka</i>	7758987	0.19	LC50/MOR//	alevin, newly hatched	LAB/F/I	4	83.1	7.63	7.15	conductivity, co2, organic c, so4, no3-n, no2-n	8441
104	14592	<i>Oncorhynchus nerka</i>	7758987	0.2	LC50/MOR//	alevin	LAB/F/I	4	83.1	7.63	7.15	conductivity, co2, organic c, so4, no3-n, no2-n	8441
104	14593	<i>Oncorhynchus nerka</i>	7758987	0.1	LC50/MOR//	alevin	LAB/F/I	4	83.1	7.63	7.15	conductivity, co2, organic c, so4, no3-n, no2-n	8441
104	14594	<i>Oncorhynchus nerka</i>	7758987	0.13	LC50/MOR//	alevin	LAB/F/I	4	83.1	7.63	7.15	conductivity, co2, organic c, so4, no3-n, no2-n	8441
104	11460	<i>Oncorhynchus tshawytscha</i>	7440508	0.05	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	4	110	7.4	12		2062
104	11461	<i>Oncorhynchus tshawytscha</i>	7440508	0.05	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	4	80	7.4	12		2062
105	Vertebrates exposed to copper in moderately hard water at >15degC over 3-30 days exposure												
105	12793	<i>Ambystoma opacum</i>	7758987	0.77	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
105	12794	<i>Ambystoma opacum</i>	7758987	3.59	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	4	100	7.5	22		2016
105	12795	<i>Ambystoma opacum</i>	7758987	0.77	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	8	100	7.5	22		2016
105	15913	<i>Anguilla anguilla</i>	7758987	0.04	/GRO/DEC/NOSIG	50 g(33.4-84.4) g yellowstage	LAB/F/B	17	116	7.51	25	cu pretreatment 6-28 d	17693
105	13016	<i>Bufo woodhousei fowleri</i>	7758987	26.96	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	7	100	7.5	22		2016
105	13082	<i>Carassius auratus</i>	7758987	0.29	LC50/MOR/INC/	2.5-4.5 g	LAB//	4	76.4	7.1	28.5		4930

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
105	13083	<i>Carassius auratus</i>	7758987	0.28	LC50/MOR/INC/	2.5-4.5 g	LAB//	6	78.3	7.1	28.5		4930
105	13084	<i>Carassius auratus</i>	7758987	0.27	LC50/MOR/INC/	2.5-4.5 g	LAB//	8	79.3	7.1	28.5		4930
105	15976	<i>Carassius auratus</i>	7758987	0.26	/MOR/DEC/	2.5-4.5 g	LAB/R/C	14	76.4	7.1	29	parasitic challenge in recovery	4930
105	16450	<i>Carassius auratus</i>	7758987	0.26	/IMM/INC/	2.5-4.5 g	LAB/R/C	14	76.4	7.1	29	parasitic challenge in recovery	4930
105	13231	<i>Channa punctata</i>	7758987	3	LC50/MOR/INC/	15 cm, 60 g	LAB//	4	106	7.4	26		19023
105	16005	<i>Channa punctata</i>	7758987	0.3	/ENZ/CHG/MULT	15 cm, 60 g	LAB/R/	22.5	106	7.4	26		19023
105	16006	<i>Channa punctata</i>	7758987	0.3	/BCM/CHG/SIG	15 cm, 60 g	LAB/R/	22.5	106	7.4	26		19023
105	13289	<i>Cirrhinus mrigala</i>	7758987	1.5	LC50/MOR//	4.5 mm, 51.0 mg, 2 d larvae	LAB/S/I	4	72	7.3	23	tds	10575
105	13290	<i>Cirrhinus mrigala</i>	7758987	0.1	MATC/MOR//	2 d larvae, 4.5 mm, 51.0 mg	LAB/S/I	4	72	7.3	23	tds	10575
105	12027	<i>Clarias gariepinus</i>	7447394	13800	LC50/MOR/INC/	adult, 19.43 cm, 54.87 g	LAB/F/K	4	61	7.4	21		16532
105	12031	<i>Clarias gariepinus</i>	7447394	12000	LC50/MOR/INC/	juvenile, 7.08 cm, 13.97 g	LAB/F/K	4	61	7.4	21		16532
105	12035	<i>Clarias gariepinus</i>	7447394	12900	LC50/MOR/INC/	adult, 22.97 cm, 60.88 g	LAB/F/K	4	64	7.6	28		16532
105	12039	<i>Clarias gariepinus</i>	7447394	13000	LC50/MOR/INC/	juvenile, 5.08 cm, 15.07 g	LAB/F/K	4	64	7.6	28		16532
105	12470	<i>Clarias gariepinus</i>	7447394	22200	NR-LETH/MOR/INC/	adult, 19.43 cm, 54.87 g	LAB/F/K	4	61	7.4	21		16532
105	12471	<i>Clarias gariepinus</i>	7447394	16290	NR-LETH/MOR/INC/	juvenile, 7.08 cm, 13.97 g	LAB/F/K	4	61	7.4	21		16532
105	12472	<i>Clarias gariepinus</i>	7447394	22630	NR-LETH/MOR/INC/	adult, 22.97 cm, 60.88 g	LAB/F/K	4	64	7.6	28		16532
105	12473	<i>Clarias gariepinus</i>	7447394	33260	NR-LETH/MOR/INC/	juvenile, 5.08 cm, 15.07 g	LAB/F/K	4	64	7.6	28		16532
105	12474	<i>Clarias gariepinus</i>	7447394	5430	NR-ZERO/MOR/NEF/	adult, 19.43 cm, 54.87 g	LAB/F/K	4	61	7.4	21		16532
105	12475	<i>Clarias gariepinus</i>	7447394	5140	NR-ZERO/MOR/NEF/	juvenile, 7.08 cm, 13.97 g	LAB/F/K	4	61	7.4	21		16532
105	12476	<i>Clarias gariepinus</i>	7447394	6170	NR-ZERO/MOR/NEF/	adult, 22.97 cm, 60.88 g	LAB/F/K	4	64	7.6	28		16532
105	12477	<i>Clarias gariepinus</i>	7447394	7900	NR-ZERO/MOR/NEF/	juvenile, 5.08 cm, 15.07 g	LAB/F/K	4	64	7.6	28		16532
105	10568	<i>Colisa fasciata</i>	3251238	1.4	LC50/MOR//	adult females, 5.10 g	LAB/I	4	120	7.3	25	conductivity 574 umh/cm	5294

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
105	10569	<i>Colisa fasciata</i>	3251238	1.4	LC50/MOR//	adult females, 5.10 g	LAB//I	4	120	7.3	25	conductivity 574 umho per cm	5294
105	10771	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10772	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10773	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10774	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10775	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females, 5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10776	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10777	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10778	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10779	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10780	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10781	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10782	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10783	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females,5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umhocm	5294
105	10784	<i>Colisa fasciata</i>	3251238	1	/BCM//	adult females, 5.10 g	LAB//S	3.75	120	7.3	25	conductivity 574 umho per cm	5294
105	10709	<i>Cyprinus carpio</i>	3251238		/BCM/CHG/MULT	juvenile, 1 mo, 18 g	LAB/R/C	14	85	7.5	20		18591
105	10710	<i>Cyprinus carpio</i>	3251238		/GEN/CHG/MULT	juvenile, 1 mo, 18 g	LAB/R/C	14	85	7.5	20		18591
105	10713	<i>Cyprinus carpio</i>	3251238		/FDB/CHG/MULT	juvenile, 1 mo, 18 g	LAB/R/C	17.5	85	7.5	20		18591
105	10785	<i>Cyprinus carpio</i>	3251238		/GRO/CHG/	juvenile, 1 mo, 18 g	LAB/R/C	17.5	85	7.5	20		18591
105	13426	<i>Cyprinus carpio</i>	7758987	0.17	LC50/MOR//	4-5 cm	LAB/R/S	4	118	7.4	27	co3, hco3, so4, po4, c, no2, fe, silicates	2077
105	13429	<i>Cyprinus carpio</i>	7758987	0	LC50/MOR//	larvae, 8 mm	LAB/R/I	4	74	7.2	21.6		10385
105	10633	<i>Danio rerio</i>	3251238	0.21	LC50/MOR//	3.5 cm	LAB/S/I	4	100	7.8	20		5268

mg total metal/L, hardness in mg CaCO₃/L

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SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
105	11131	<i>Danio rerio</i>	7440508	0.05	LOEC/MOR/INC/SIG	embryo, 4 cell stage, 1 h after	LAB//C	6	62.5	6.75	26.5		19687
105	11133	<i>Danio rerio</i>	7440508	0.05	LOEC/MOR/INC/SIG	four-cell stage,30 mi fertilization	LAB//C	6	62.5	6.75	26.5		18510
105	11135	<i>Danio rerio</i>	7440508	0.05	LOEC/MOR/INC/NOSIG	blastula, 2h post fertilization	LAB//C	6	62.5	6.75	26.5		18510
105	11137	<i>Danio rerio</i>	7440508	0.05	NOEC/MOR/INC/NOSIG	embryo, 4 cell stage, 1 h after	LAB//C	6	62.5	6.75	26.5		19687
105	11139	<i>Danio rerio</i>	7440508	0.05	NOEC/MOR/INC/NOSIG	four-cell stage,30 mi fertilization	LAB//C	6	62.5	6.75	26.5		18510
105	11141	<i>Danio rerio</i>	7440508	0.05	NOEC/MOR/INC/NOSIG	blastula, 2h post fertilization	LAB//C	6	62.5	6.75	26.5		18510
105	13487	<i>Danio rerio</i>	7758987	0	MATC/MOR/INC/	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
105	13488	<i>Danio rerio</i>	7758987	0	MATC/MOR/INC/	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
105	13489	<i>Danio rerio</i>	7758987	0	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/C	16	100	7.6	25.9		3680
105	13490	<i>Danio rerio</i>	7758987	0	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
105	16033	<i>Danio rerio</i>	7758987	0.13	NR-LETH/MOR/INC/	egg, 2-4 h, blastula stage	LAB/R/S	24	100	7.6	25.9		3680
105	14022	<i>Hyla chrysoscelis</i>	7758987	0.04	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	7	100	7.5	22		2016
105	14026	<i>Ictalurus punctatus</i>	7758987	7.56	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	6	100	7.5	22		2016
105	14027	<i>Ictalurus punctatus</i>	7758987	6.62	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	10	100	7.5	22		2016
105	14327	<i>Micropterus salmoides</i>	7758987	6.56	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
105	14328	<i>Micropterus salmoides</i>	7758987	6.97	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	4	100	7.5	22		2016
105	14329	<i>Micropterus salmoides</i>	7758987	6.56	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	8	100	7.5	22		2016
105	14365	<i>Morone saxatilis</i>	7758987	0.15	LC50/MOR/INC/	11 d posthatch larva	LAB/F/C	4	120	8	18	marine environment sea salts, tested in 1988	15472
105	14366	<i>Morone saxatilis</i>	7758987	0.08	LC50/MOR/INC/	13 d posthatch larva	LAB/F/C	4	120	8	18	marine environment sea salts, tested in 1988	15472
105	14367	<i>Morone saxatilis</i>	7758987	0.04	LC50/MOR/INC/	45 d posthatch larva	LAB/F/C	4	120	8	18	marine environment sea salts, tested in 1988	15472

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
105	14368	<i>Morone saxatilis</i>	7758987	0.04	LC50/MOR/INC/	39 d posthatch larva	LAB/F/C	4	120	8	18	marine environment sea salts, tested in 1988	15472
105	14369	<i>Morone saxatilis</i>	7758987	0.13	LC50/MOR/INC/	13 d posthatch larva	LAB/F/C	4	120	8	18	marine environment sea salts, tested in 1989	15472
105	14370	<i>Morone saxatilis</i>	7758987	0.09	LC50/MOR/INC/	13 d posthatch larva	LAB/F/C	4	120	8	18	marine environment sea salts, tested in 1989	15472
105	11514	<i>Pimephales promelas</i>	7440508	2.2	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	120	8	21	field collected water	8320
105	11524	<i>Pimephales promelas</i>	7440508	1.59	LC50/MOR//		LAB/F/I	4	87	7.11	25		5081
105	11525	<i>Pimephales promelas</i>	7440508	1.13	LC50/MOR//		LAB/F/I	4	73	6.94	25		5081
105	11526	<i>Pimephales promelas</i>	7440508	0.55	LC50/MOR//		LAB/F/I	4	84	7.07	25		5081
105	11527	<i>Pimephales promelas</i>	7440508	1	LC50/MOR//		LAB/F/I	4	66	6.97	25		5081
105	11528	<i>Pimephales promelas</i>	7440508	2.05	LC50/MOR//		LAB/F/I	4	117	7.29	25		5081
105	14878	<i>Pimephales promelas</i>	7758987	0.17	EC50/DVP/INC/		LAB/R/M	7	106	7.25	24		45211
105	14879	<i>Pimephales promelas</i>	7758987	0.19	EC50/DVP/INC/		LAB/R/M	7	106	7.25	24		45211
105	14880	<i>Pimephales promelas</i>	7758987	0.26	EC50/DVP/INC/		LAB/R/M	5	106	7.25	24		45211
105	14881	<i>Pimephales promelas</i>	7758987	0.27	EC50/DVP/INC/		LAB/R/M	5	106	7.25	24		45211
105	15220	<i>Pimephales promelas</i>	7758987	0.01	LC50/MOR/INC/	2-4 d	LAB/S/C	4	64	7.25	20.9	overlying water	18527
105	15221	<i>Pimephales promelas</i>	7758987	0.01	LC50/MOR/INC/	2-4 d	LAB/S/C	7	64	7.25	20.9	overlying water	18527
105	15222	<i>Pimephales promelas</i>	7758987	0.01	LC50/MOR/INC/	2-4 d	LAB/S/C	10	64	7.25	20.9	overlying water	18527
105	15224	<i>Pimephales promelas</i>	7758987	0.05	LC50/MOR/INC/	2-4 d	LAB/S/C	4	64	7.25	20.9	pore water	18527
105	15225	<i>Pimephales promelas</i>	7758987	0.04	LC50/MOR/INC/	2-4 d	LAB/S/C	7	64	7.25	20.9	pore water	18527

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
105	15226	<i>Pimephales promelas</i>	7758987	0.04	LC50/MOR/INC/	2-4 d	LAB/S/C	10	64	7.25	20.9	pore water	18527
105	15228	<i>Pimephales promelas</i>	7758987	0	LC50/MOR/INC/	2-4 d	LAB/S/C	14	64	7.25	20.9	overlying water	18527
105	15229	<i>Pimephales promelas</i>	7758987	0.04	LC50/MOR/INC/	2-4 d	LAB/S/C	14	64	7.25	20.9	pore water	18527
105	15233	<i>Pimephales promelas</i>	7758987	0.21	LC50/MOR/INC/	40 mm	LAB/S/C	4	100	7.4	22	newton hatchery fish	10237
105	15234	<i>Pimephales promelas</i>	7758987	0.36	LC50/MOR/INC/	40 mm	LAB/S/C	4	100	7.4	22	flyash pond fish	10237
105	15242	<i>Pimephales promelas</i>	7758987	0.48	LC50/MOR/INC/		LAB/R/M	5	106	7.25	24		45211
105	15243	<i>Pimephales promelas</i>	7758987	0.44	LC50/MOR/INC/		LAB/R/M	5	106	7.25	24		45211
105	15244	<i>Pimephales promelas</i>	7758987	0.31	LC50/MOR/INC/		LAB/R/M	7	106	7.25	24		45211
105	15245	<i>Pimephales promelas</i>	7758987	0.33	LC50/MOR/INC/		LAB/R/M	7	106	7.25	24		45211
105	15386	<i>Pimephales promelas</i>	7758987	0.16	LOEC/GRO/DEC/SIG		LAB/R/M	7	106	7.25	24		45211
105	15387	<i>Pimephales promelas</i>	7758987	0.18	LOEC/GRO/DEC/SIG		LAB/R/M	7	106	7.25	24		45211
105	15416	<i>Pimephales promelas</i>	7758987	0.04	NOEC/MOR/INC/NOSIG	2-4 d	LAB/S/C	10	64	7.25	20.9	pore water	18527
105	15417	<i>Pimephales promelas</i>	7758987	0.04	NOEC/GRO/DEC/NOSIG	2-4 d	LAB/S/C	10	64	7.25	20.9	pore water	18527
105	15418	<i>Pimephales promelas</i>	7758987	0.02	NOEC/MOR/INC/NOSIG	2-4 d	LAB/S/C	14	64	7.25	20.9	pore water	18527
105	15419	<i>Pimephales promelas</i>	7758987	0.05	NOEC/GRO/DEC/NOSIG	2-4 d	LAB/S/C	14	64	7.25	20.9	pore water	18527
105	11547	<i>Poecilia reticulata</i>	7440508	0.14	LC50/MOR//	juvenile	LAB/F/I	4	67.2	7.6	25	resistivity	2010
105	11548	<i>Poecilia reticulata</i>	7440508	0.11	LC50/MOR//	juvenile	LAB/F/I	4	87.5	7.4	25.9	resistivity	2010
105	15626	<i>Rana pipiens</i>	7758987	0.06	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	4	100	7.5	22		2016
105	15627	<i>Rana pipiens</i>	7758987	0.05	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	8	100	7.5	22		2016
105	11595	<i>Tilapia mossambica</i>	7440508	4.27	LC50/MOR/INC/	11.3 g	LAB/R/C	4	90	7.7	29.1		18799
105	12444	<i>Tilapia mossambica</i>	7447394	2.83	LC50/MOR/INC/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	4	80	7.74	29		5289
105	12449	<i>Tilapia mossambica</i>	7447394	3.03	LC50/MOR/INC/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	4	79	7.89	19		5289
105	16353	<i>Tilapia mossambica</i>	7758987	2.66	/MOR/INC/	11.3 g	LAB/M	28	95	7.8	29.2		18799

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
105	16354	<i>Tilapia mossambica</i>	7758987	2.66	/BCM/CHG/SIG	11.3 g	LAB//M	14	95	7.8	29.2		18799
105	16355	<i>Tilapia mossambica</i>	7758987	0.06	/MOR/INC/	juvenile	LAB/F/C	6	64.1	6.57	25	acclimated to 25 or 35 c	19104
105	17044	<i>Tilapia mossambica</i>	7758987	0.06	/BEH/CHG/	juvenile	LAB/F/C	6	64.1	6.57	25	acclimated to 25 or 35 c	19104
105	15873	<i>Xenopus laevis</i>	7758987	0.88	EC50/DVP/INC/		LAB/R/M	4	106	7.25	24		45211
105	15874	<i>Xenopus laevis</i>	7758987	0.74	EC50/DVP/INC/		LAB/R/M	4	106	7.25	24		45211
105	15876	<i>Xenopus laevis</i>	7758987	0.98	LC50/MOR/INC/		LAB/R/M	4	106	7.25	24		45211
105	15877	<i>Xenopus laevis</i>	7758987	0.89	LC50/MOR/INC/		LAB/R/M	4	106	7.25	24		45211
105	15878	<i>Xenopus laevis</i>	7758987	0.75	LOEC/GRO/DEC/SIG		LAB/R/M	4	106	7.25	24		45211
105	15879	<i>Xenopus laevis</i>	7758987	0.75	LOEC/GRO/DEC/SIG		LAB/R/M	4	106	7.25	24		45211
106	Vertebrates exposed to copper in moderately hard water at >15degC over 1-3 days exposure												
106	16404	<i>Barbus arulius</i>	7758987	2	/PHY//	6.26 cm, 2.403 g	LAB/R/S	2.5	65	7.5	25		13240
106	13015	<i>Bufo woodhousei fowleri</i>	7758987	35.99	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	3	100	7.5	22		2016
106	13080	<i>Carassius auratus</i>	7758987	0.36	LC50/MOR/INC/	2.5-4.5 g	LAB//	2	78.5	7.3	28.5		4930
106	13081	<i>Carassius auratus</i>	7758987	0.3	LC50/MOR/INC/	2.5-4.5 g	LAB//	3	77.2	7.2	28.5		4930
106	12025	<i>Clarias gariepinus</i>	7447394	16800	LC50/MOR/INC/	adult, 19.43 cm, 54.87 g	LAB/F/K	2	61	7.4	21		16532
106	12026	<i>Clarias gariepinus</i>	7447394	14800	LC50/MOR/INC/	adult, 19.43 cm, 54.87 g	LAB/F/K	3	61	7.4	21		16532
106	12029	<i>Clarias gariepinus</i>	7447394	14200	LC50/MOR/INC/	juvenile, 7.08 cm, 13.97 g	LAB/F/K	2	61	7.4	21		16532
106	12030	<i>Clarias gariepinus</i>	7447394	12800	LC50/MOR/INC/	juvenile, 7.08 cm, 13.97 g	LAB/F/K	3	61	7.4	21		16532
106	12033	<i>Clarias gariepinus</i>	7447394	18700	LC50/MOR/INC/	adult, 22.97 cm, 60.88 g	LAB/F/K	2	64	7.6	28		16532
106	12034	<i>Clarias gariepinus</i>	7447394	14800	LC50/MOR/INC/	adult, 22.97 cm, 60.88 g	LAB/F/K	3	64	7.6	28		16532
106	12037	<i>Clarias gariepinus</i>	7447394	22800	LC50/MOR/INC/	juvenile, 5.08 cm, 15.07 g	LAB/F/K	2	64	7.6	28		16532
106	12038	<i>Clarias gariepinus</i>	7447394	16800	LC50/MOR/INC/	juvenile, 5.08 cm, 15.07 g	LAB/F/K	3	64	7.6	28		16532
106	12467	<i>Clarias gariepinus</i>	7447394	0.07	/BCM/CHG/MULT		LAB/F/C	2.04	62.5	7.5	24.5		16690
106	12468	<i>Clarias gariepinus</i>	7447394	0.07	/BCM/CHG/MULT		LAB/F/C	2.04	62.5	7.5	24.5		16690
106	12469	<i>Clarias gariepinus</i>	7447394	0.07	/ENZ/CHG/SIG		LAB/F/C	2.04	62.5	7.5	24.5		16690
106	13425	<i>Cyprinus carpio</i>	7758987	0.26	LC50/MOR//	4-5 cm	LAB/R/S	2	118	7.4	27	co3, hco3, so4, po4, cl, no2, fe, silicates	2077

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
106	10631	<i>Danio rerio</i>	3251238	0.25	LC50/MOR//	3.5 cm	LAB/S/I	2	100	7.8	20	5268	
106	10632	<i>Danio rerio</i>	3251238	0.21	LC50/MOR//	3.5 cm	LAB/S/I	3	100	7.8	20	5268	
106	14021	<i>Hyla chrysoscelis</i>	7758987	0.06	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	3	100	7.5	22	2016	
106	16124	<i>Ictalurus punctatus</i>	7758987	28	NR-LETH/MOR/INC/	4.4 (3.0-5.6) g, 64 (55-70) mm,	LAB//	1.38	72.5	7.07	21	14695	
106	16690	<i>Ictalurus punctatus</i>	7758987	0.13	/PHY/INC/	egg	LAB//S	2.5	90	7.71	24	15371	
106	15219	<i>Pimephales promelas</i>	7758987	0.02	LC50/MOR/INC/	2-4 d	LAB/S/C	2	64	7.25	20.9	overlying water	18527
106	15223	<i>Pimephales promelas</i>	7758987	0.07	LC50/MOR/INC/	2-4 d	LAB/S/C	2	64	7.25	20.9	pore water	18527
106	12441	<i>Tilapia mossambica</i>	7447394	4.08	LC50/MOR/INC/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	1.33	80	7.74	29	5289	
106	12442	<i>Tilapia mossambica</i>	7447394	3.38	LC50/MOR/INC/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	2	80	7.74	29	5289	
106	12443	<i>Tilapia mossambica</i>	7447394	2.95	LC50/MOR/INC/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	3	80	7.74	29	5289	
106	12446	<i>Tilapia mossambica</i>	7447394	5.58	LC50/MOR/INC/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	1.33	79	7.89	19	5289	
106	12447	<i>Tilapia mossambica</i>	7447394	3.83	LC50/MOR/INC/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	2	79	7.89	19	5289	
106	12448	<i>Tilapia mossambica</i>	7447394	3.36	LC50/MOR/INC/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	3	79	7.89	19	5289	
106	12564	<i>Tilapia mossambica</i>	7447394	1.68	NR-ZERO/MOR/NEF/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	2.5	80	7.74	29	5289	
106	12565	<i>Tilapia mossambica</i>	7447394	2.18	NR-ZERO/MOR/NEF/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	2.5	79	7.89	19	5289	
107	Vertebrates exposed to copper in moderately hard water at >15degC over <=1 day exposure												
107	12870	<i>Barbus arulius</i>	7758987	2.7	LC50/MOR//	6.26 cm, 2.403 g	LAB/R/I	1	65	7.5	25	13240	
107	12871	<i>Barbus arulius</i>	7758987	2.25	LC50/MOR//	6.26 cm, 2.403 g	LAB/R/I	1	65	7.5	25	13240	
107	12872	<i>Barbus arulius</i>	7758987	2.1	LC50/MOR//	6.26 cm, 2.403 g	LAB/R/I	1	65	7.5	25	13240	
107	12873	<i>Barbus arulius</i>	7758987	1.9	LC50/MOR//	6.26 cm, 2.403 g	LAB/R/I	1	65	7.5	25	13240	
107	16426	<i>Bufo americanus</i>	7758987	0.1	/AVO//	tadpole,12-17 mm	LAB/F/S	0.03	112.4	7.6	19.1	conductivity 136.0 umhoscm	5272
107	16427	<i>Bufo americanus</i>	7758987	0.52	/AVO/CHG/	12-17 mm, tadpole	LAB/F/C	0.01	112.4	7.6	19.1		16417
107	13079	<i>Carassius auratus</i>	7758987	0.37	LC50/MOR/INC/	2.5-4.5 g	LAB//	1	77.5	7.2	28.5		4930
107	15975	<i>Carassius auratus</i>	7758987	0.29	/MOR/INC/	2.5-4.5 g	LAB/S/C	0.73	76.4	7.1	29	parasitic challenge in recovery	4930

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
107	15978	<i>Carassius auratus</i>	7758987	0.16	/IMM/DEC/	2.5-4.5 g	LAB/S/C	0.04	76.4	7.1	29	parasitic exposed for 24 h prior to challenge	4930
107	15979	<i>Carassius auratus</i>	7758987	0.17	/MOR/INC/	2.5-4.5 g	LAB/S/C	0.04	76.4	7.1	29	pre-exposed to parasites	4930
107	15983	<i>Carassius auratus</i>	7758987	0.06	NR-LETH/MOR/INC/	2.5-4.5 g	LAB/S/C	0.04	76.4	7.1	29	pre-exposed to parasites	4930
107	15984	<i>Carassius auratus</i>	7758987	0.26	NR-ZERO/MOR/NEF/	2.5-4.5 g	LAB/S/C	0.04	76.4	7.1	29	pre-exposed to parasites	4930
107	16449	<i>Carassius auratus</i>	7758987	0.29	/IMM/CHG/	2.5-4.5 g	LAB/S/C	0.73	76.4	7.1	29	parasitic challenge in recovery	4930
107	16451	<i>Carassius auratus</i>	7758987	0.16	/IMM/CHG/	2.5-4.5 g	LAB/S/C	0.04	76.4	7.1	29	pre-exposed to parasites	4930
107	12024	<i>Clarias gariepinus</i>	7447394	20000	LC50/MOR/INC/	adult, 19.43 cm, 54.87 g	LAB/F/K	1	61	7.4	21		16532
107	12028	<i>Clarias gariepinus</i>	7447394	16100	LC50/MOR/INC/	juvenile, 7.08 cm, 13.97 g	LAB/F/K	1	61	7.4	21		16532
107	12032	<i>Clarias gariepinus</i>	7447394	23800	LC50/MOR/INC/	adult, 22.97 cm, 60.88 g	LAB/F/K	1	64	7.6	28		16532
107	12036	<i>Clarias gariepinus</i>	7447394	36200	LC50/MOR/INC/	juvenile, 5.08 cm, 15.07 g	LAB/F/K	1	64	7.6	28		16532
107	13424	<i>Cyprinus carpio</i>	7758987	0.34	LC50/MOR//	4-5 cm	LAB/R/S	1	118	7.4	27	co3, hco3, so4, po4, cl, no2, fe, silicates	2077
107	10629	<i>Danio rerio</i>	3251238	0.99	LC50/MOR//	3.5 cm	LAB/S/I	0.33	100	7.6	20		5268
107	10630	<i>Danio rerio</i>	3251238	0.57	LC50/MOR//	3.5 cm	LAB/S/I	1	100	7.6	20		5268
107	16130	<i>Lepomis macrochirus</i>	7758987	25.85	/AVO/INC/SIG	35-60 mm, juvenile	LAB/F/C	0.01	112.4	7.6	23		16417
107	16729	<i>Lepomis macrochirus</i>	7758987	8.48	/AVO//	juvenile, 35-60 mm	LAB/F/S	0.03	112.4	7.6	23	conductivity 136.0 umhos/cm	5272
107	16769	<i>Micropterus salmoides</i>	7758987	0.05	/PHY//		LAB/F/U	1	85.5	7.5	22		11127
107	16770	<i>Micropterus salmoides</i>	7758987	0.05	/BEH//		LAB/F/U	1	85.5	7.5	22		11127
107	14572	<i>Oncorhynchus mykiss</i>	7758987	0.07	LOEC/AVO/INC/SIG	juvenile, 30-50 mm	LAB/F/C	0.01	112.4	7.6	17.8		16417
107	16189	<i>Oncorhynchus mykiss</i>	7758987	6.1	/AVO/INC/SIG	juvenile, 30-50 mm	LAB/F/C	0.01	112.4	7.6	17.8		16417
107	16789	<i>Oncorhynchus mykiss</i>	7758987	0.07	/AVO//	juvenile, 30-50 mm	LAB/F/S	0.03	112.4	7.6	17.8	conductivity 136.0 umhos/cm	5272

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
107	15009	<i>Pimephales promelas</i>	7758987	0.27	LC50/MOR//	adult, 40 mm	LAB/S/I	1	100	7.5	21.5	conductivity 283-300 umhos	10551
107	15011	<i>Pimephales promelas</i>	7758987	0.72	LC50/MOR//	adult, 40 mm	LAB/S/I	1	100	7.5	21.5	conductivity 283-300 umhoscm	10551
107	15231	<i>Pimephales promelas</i>	7758987	0.27	LC50/MOR/INC/	40 mm	LAB/S/C	1	100	7.4	22	newton hatchery fish	10237
107	15232	<i>Pimephales promelas</i>	7758987	0.46	LC50/MOR/INC/	40 mm	LAB/S/C	1	100	7.4	22	flyash pond fish	10237
107	15507	<i>Poecilia reticulata</i>	7758987	1.68	LC50/MOR//	juvenile, 1 mo	LAB/F/S	1	76	7.51	25.6	see paper	15469
107	15508	<i>Poecilia reticulata</i>	7758987	1.37	LC50/MOR//	juvenile, 1 mo	LAB/F/S	1	76	7.51	25.6	see paper	15469
107	15509	<i>Poecilia reticulata</i>	7758987	0.93	LC50/MOR//	juvenile, 1 mo	LAB/F/S	1	76	7.51	25.6	see paper	15469
107	15510	<i>Poecilia reticulata</i>	7758987	1.13	LC50/MOR//	juvenile, 1 mo	LAB/F/S	1	76	7.51	25.6	see paper	15469
107	12440	<i>Tilapia mossambica</i>	7447394	5.93	LC50/MOR/INC/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	1	80	7.74	29		5289
107	12445	<i>Tilapia mossambica</i>	7447394	11.74	LC50/MOR/INC/	juvenile,7.0-11.8 cm tl, 5.0-23.6 g	LAB/F/C	1	79	7.89	19		5289
108	Vertebrates exposed to copper in soft water at <15degC over 3-30 days exposure												
108	11967	<i>Acrocheilus alutaceus</i>	7447394	0.143	LC50/MOR//	juvenile, 1.25 g, 4.6 cm	LAB/F/S	4	54	7.3	10.5		461
108	12822	<i>Anguilla japonica</i>	7758987	0.34	LC50/MOR/INC/	juvenile, 0.135 g, 5.6 cm	LAB/R/	4	31.5	7.555	15		18914
108	16458	<i>Catostomus commersoni</i>	7758987	0.333	/MOR//	eyed embryo	LAB/F/I	13	45.4	7.6	14.9	acidity 1.9(1.1-4.2) mgl as caco3	2436
108	13436	<i>Cyprinus carpio</i>	7758987	0.063	LC50/MOR/INC/	1.4-2.6 g, 47-62 mm	LAB/R/S	4	19	6.3	15	acidity 18(15-23) mgl, ca, mg	11716
108	12270	<i>Oncorhynchus clarki</i>	7447394	0.0157	LC50/MOR//	5.7 g, 8.9 cm	LAB/F/S	4	26.4	7.64	13.3	see paper for more water chemistry parameters	2063
108	10501	<i>Oncorhynchus kisutch</i>	1344678	0.045	LC50/MOR//	alevins-buttoned-up fry	LAB/R/I	4	22	7.4	10	water parameters rpt, willamete river, organic carbon 3.4	111
108	10526	<i>Oncorhynchus kisutch</i>	1344678	0.505	/GRO//	alevins-buttoned-up fry	LAB/R/I	4	22	7.4	10	water parameters rpt, willamete river, organic carbon 3.4	111
108	11363	<i>Oncorhynchus kisutch</i>	7440508	0.164	LC50/MOR//	juvenile, 6 g	LAB/R/S	4	33	7.285	13.5	nh3-n, toc, tested in river water	10541
108	11364	<i>Oncorhynchus kisutch</i>	7440508	0.081	LC50/MOR/INC/		LAB/F/C	4	23.7	6.9	4.4		45201
108	11365	<i>Oncorhynchus kisutch</i>	7440508	0.085	LC50/MOR/INC/		LAB/F/C	4	18.3	6.8	6		45201

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/ Trend/Significant)*	Test Organism	Design (Location/E xposure/Co ntrol Type)*	Days	Hardness	pH	°C	Design Comment	Citation
108	11366	<i>Oncorhynchus kisutch</i>	7440508	0.072	LC50/MOR/INC/		LAB/F/C	9	18.3	6.8	6		45201
108	11367	<i>Oncorhynchus kisutch</i>	7440508	0.07	LC50/MOR/INC/		LAB/F/C	9	18.3	6.8	6		45201
108	11368	<i>Oncorhynchus kisutch</i>	7440508	0.09	LC50/MOR/INC/		LAB/F/C	4	24.4	7.1	9.5		45201
108	11369	<i>Oncorhynchus kisutch</i>	7440508	0.074	LC50/MOR/INC/		LAB/F/C	9	24.4	7.1	9.5		45201
108	11370	<i>Oncorhynchus kisutch</i>	7440508	0.065	LC50/MOR/INC/		LAB/F/C	9	24.4	7.1	9.5		45201
108	11371	<i>Oncorhynchus kisutch</i>	7440508	0.061	LC50/MOR/INC/		LAB/F/C	4	31.1	7.3	13.3		45201
108	11372	<i>Oncorhynchus kisutch</i>	7440508	0.061	LC50/MOR/INC/		LAB/F/C	9	31.1	7.3	13.3		45201
108	11373	<i>Oncorhynchus kisutch</i>	7440508	0.06	LC50/MOR/INC/		LAB/F/C	9	31.1	7.3	13.3		45201
108	11374	<i>Oncorhynchus kisutch</i>	7440508	0.063	LC50/MOR/INC/		LAB/F/C	4	31.1	7.3	13.3		45201
108	11375	<i>Oncorhynchus kisutch</i>	7440508	0.061	LC50/MOR/INC/		LAB/F/C	9	31.1	7.3	13.3		45201
108	11376	<i>Oncorhynchus kisutch</i>	7440508	0.061	LC50/MOR/INC/		LAB/F/C	9	31.1	7.3	13.3		45201
108	11388	<i>Oncorhynchus kisutch</i>	7440508	0.052	LC50/MOR/INC/		LAB/F/C	9	28.7	7	8.7		45201
108	11395	<i>Oncorhynchus kisutch</i>	7440508	0.028	NOEC/NOC/CHG/		LAB/F/C	8	28.7	7	8.7		45201
108	11396	<i>Oncorhynchus kisutch</i>	7440508	0.028	NOEC/NOC/CHG/		LAB/F/C	29	28.7	7	8.7		45201
108	11398	<i>Oncorhynchus kisutch</i>	7440508	0.021	NOEC/NOC/CHG/NOSIG		LAB/F/C	10	31.1	7.3	13.3		45201
108	11399	<i>Oncorhynchus kisutch</i>	7440508	0.018	NOEC/NOC/CHG/NOSIG		LAB/F/C	30	31.1	7.3	13.3		45201
108	11401	<i>Oncorhynchus kisutch</i>	7440508	0.051	NOEC/NOC/CHG/NOSIG		LAB/F/C	8	24.4	7.1	9.5		45201
108	11402	<i>Oncorhynchus kisutch</i>	7440508	0.022	NOEC/NOC/CHG/NOSIG		LAB/F/C	29	24.4	7.1	9.5		45201
108	12277	<i>Oncorhynchus kisutch</i>	7447394	0.046	LC50/MOR/INC/		LAB/F/C	4	20	7.29	9.4		2060
108	10809	<i>Oncorhynchus mykiss</i>	3251238	0.045	/PHY//	juvenile, 17 g	LAB/S/S	21	33.7	7.3	15		7150

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
108	10822	<i>Oncorhynchus mykiss</i>	3251238	0.0045	/BCM/CHG/	17 g	LAB/R/C	21.02	36.5	6.87	10	parasitic challenge on day 21	17158
108	10823	<i>Oncorhynchus mykiss</i>	3251238	0.0045	/PHY/CHG/	17 g	LAB/R/C	21.02	36.5	6.81	10	parasitic challenge on day 21	17158
108	11412	<i>Oncorhynchus mykiss</i>	7440508	0.093	LC50/MOR/INC/		LAB/F/C	4	23.7	6.9	4.4		45201
108	11413	<i>Oncorhynchus mykiss</i>	7440508	0.094	LC50/MOR/INC/		LAB/F/C	4	18.3	6.8	6		45201
108	11414	<i>Oncorhynchus mykiss</i>	7440508	0.087	LC50/MOR/INC/		LAB/F/C	9	18.3	6.8	6		45201
108	11415	<i>Oncorhynchus mykiss</i>	7440508	0.084	LC50/MOR/INC/		LAB/F/C	9	18.3	6.8	6		45201
108	11416	<i>Oncorhynchus mykiss</i>	7440508	0.089	LC50/MOR/INC/		LAB/F/C	4	24.4	7.1	9.5		45201
108	11417	<i>Oncorhynchus mykiss</i>	7440508	0.087	LC50/MOR/INC/		LAB/F/C	9	24.4	7.1	9.5		45201
108	11418	<i>Oncorhynchus mykiss</i>	7440508	0.07	LC50/MOR/INC/		LAB/F/C	9	24.4	7.1	9.5		45201
108	11447	<i>Oncorhynchus mykiss</i>	7440508	0.051	NOEC/NOC/CHG/NOSIG		LAB/F/C	9	28.7	7	8.7		45201
108	11448	<i>Oncorhynchus mykiss</i>	7440508	0.029	NOEC/NOC/CHG/NOSIG		LAB/F/C	30	28.7	7	8.7		45201
108	11450	<i>Oncorhynchus mykiss</i>	7440508	0.024	NOEC/NOC/CHG/NOSIG		LAB/F/C	8	24.4	7.1	9.5		45201
108	11451	<i>Oncorhynchus mykiss</i>	7440508	0.024	NOEC/NOC/CHG/NOSIG		LAB/F/C	29	24.4	7.1	9.5		45201
108	12284	<i>Oncorhynchus mykiss</i>	7447394	0.007	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/S	5	33	6.6	12.6		791
108	12285	<i>Oncorhynchus mykiss</i>	7447394	0.028	LC50/MOR//	alevin	LAB/F/S	4	23	7.1	12.2		2027
108	12286	<i>Oncorhynchus mykiss</i>	7447394	0.017	LC50/MOR//	swim-up, 0.17 g	LAB/F/S	4	23	7.1	12.2		2027
108	12287	<i>Oncorhynchus mykiss</i>	7447394	0.018	LC50/MOR//	parr, 6.96 g, 8.6 cm	LAB/F/S	4	23	7.1	12.2		2027
108	12288	<i>Oncorhynchus mykiss</i>	7447394	0.029	LC50/MOR//	smolt, 68.19 g, 18.8 cm	LAB/F/S	4	23	7.1	12.2		2027
108	12289	<i>Oncorhynchus mykiss</i>	7447394	0.026	LC50/MOR//	alevin	LAB/F/S	8.33	23	7.1	12.2		2027
108	12290	<i>Oncorhynchus mykiss</i>	7447394	0.017	LC50/MOR//	swim-up, 0.17 g	LAB/F/S	8.33	23	7.1	12.2		2027

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
108	12291	<i>Oncorhynchus mykiss</i>	7447394	0.015	LC50/MOR//	parr, 6.96 g, 8.6 cm	LAB/F/S	8.33	23	7.1	12.2		2027
108	12292	<i>Oncorhynchus mykiss</i>	7447394	0.021	LC50/MOR//	smolt, 68.19 g, 18.8 cm	LAB/F/S	8.33	23	7.1	12.2		2027
108	12294	<i>Oncorhynchus mykiss</i>	7447394	0.018	LC50/MOR/INC/	fry, 29-32 mm tl	LAB/F/C	4	25.1	7.5	9.8		20081
108	12295	<i>Oncorhynchus mykiss</i>	7447394	0.015	LC50/MOR/INC/	fry, 29-32 mm tl	LAB/F/C	6	25.1	7.5	9.8		20081
108	12353	<i>Oncorhynchus mykiss</i>	7447394	0.057	LC50/MOR/INC/		LAB/F/C	4	42	7.57	9.2		2060
108	12354	<i>Oncorhynchus mykiss</i>	7447394	0.014	LETC/MOR/INC/	fry, 29-32 mm tl	LAB/F/C	14	25.1	7.5	9.8		20081
108	14486	<i>Oncorhynchus mykiss</i>	7758987	0.4	LC50/MOR//	eyed eggs, 12 mm	LAB/R/S	4	33	7.85	10	no2	15185
108	14506	<i>Oncorhynchus mykiss</i>	7758987	0.02	LC50/MOR//	3300 mg	LAB/F/S	4	54	7.4	15		12401
108	14561	<i>Oncorhynchus mykiss</i>	7758987	0.048	LETC/MOR/INC/	fingerling, 8-15 g	LAB/F/	9	49	7.3	13	artificial freshwater	5325
108	14562	<i>Oncorhynchus mykiss</i>	7758987	0.046	LETC/MOR/INC/	fingerling, 8-15 g	LAB/F/	9	51	7.2	13	artificial freshwater	5325
108	14563	<i>Oncorhynchus mykiss</i>	7758987	0.063	LETC/MOR/INC/	fingerling, 8-15 g	LAB/F/	9	57	7.4	13	dechlorinated tap water	5325
108	14564	<i>Oncorhynchus mykiss</i>	7758987	0.019	LETC/MOR/INC/	fingerling, 8-15 g	LAB/F/	9	12	7.1	13		5325
108	14566	<i>Oncorhynchus mykiss</i>	7758987	0.048	LETC/MOR/INC/	fingerling, 8-15 g	LAB/F/	9	49	7.3	13		5325
108	14568	<i>Oncorhynchus mykiss</i>	7758987	0.018	LETC/MOR/INC/	fingerling, 8-15 g	LAB/F/	9	12	7.4	13		5325
108	16217	<i>Oncorhynchus mykiss</i>	7758987	0.0169	/CEL/CHG/MULT	yearling, shasta strain	LAB/F/C	12	44	7.42	11.7		19463
108	16218	<i>Oncorhynchus mykiss</i>	7758987	0.0169	/BCM/DEC/NOSIG	yearling, shasta strain	LAB/F/C	12	44	7.42	11.7		19463
108	16219	<i>Oncorhynchus mykiss</i>	7758987	0.0169	/PHY/DEC/MULT	yearling, shasta strain	LAB/F/C	12	44	7.42	11.7		19463
108	16220	<i>Oncorhynchus mykiss</i>	7758987	0.0169	/IMM/CHG/NOSIG	yearling, shasta strain	LAB/F/C	12	44	7.42	11.7		19463
108	16808	<i>Oncorhynchus mykiss</i>	7758987	0.037	/MOR//	eyed embryo	LAB/F/I	11	45.4	7.6	10.8	acidity 1.9(1.1-4.2) mg/l as caco3	2436
108	16877	<i>Oncorhynchus mykiss</i>	7758987	0.0169	/GRO/CHG/	yearling, shasta strain	LAB/F/C	10.5	44	7.42	11.7		19463

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
108	16878	<i>Oncorhynchus mykiss</i>	7758987	0.0169	/MOR/INC/	yearling, shasta strain	LAB/F/C	10.5	44	7.42	11.7		19463
108	17201	<i>Oncorhynchus mykiss</i>	7440508	0.0071	/MOR/NEF/		FIELDN/E/O	14	25.5	7.3	10	0.5 m diameter x 1.5 m cage	10107
108	17202	<i>Oncorhynchus mykiss</i>	7440508	0.0071	/GRO/CHG/		FIELDN/E/O	14	25.5	7.3	10	0.5 m diameter x 1.5 m cage	10107
108	17203	<i>Oncorhynchus mykiss</i>	7440508	0.0071	/BCM/INC/		FIELDN/E/O	14	25.5	7.3	10	0.5 m diameter x 1.5 m cage	10107
108	12369	<i>Oncorhynchus nerka</i>	7447394	0.27	LC50/MOR//	fry, 0.139 g, 2.87 cm	LAB/R/I	4	41	6.5	5		8333
108	12370	<i>Oncorhynchus nerka</i>	7447394	0.214	LC50/MOR//	fry, 0.138 g, 2.96 cm	LAB/R/I	4	41	6.65	6.5		8333
108	12371	<i>Oncorhynchus nerka</i>	7447394	0.22	LC50/MOR//	fry, 0.132 g, 2.95 cm	LAB/R/I	4	41	6.55	5		8333
108	12372	<i>Oncorhynchus nerka</i>	7447394	0.21	LC50/MOR//	fry, 0.136 g, 2.97 cm	LAB/R/I	4	41	6.8	9.5		8333
108	12373	<i>Oncorhynchus nerka</i>	7447394	0.24	LC50/MOR//	smolt, 4.63 g, 8.07 cm	LAB/R/I	4	41	6.75	9.25		8333
108	11454	<i>Oncorhynchus tshawytscha</i>	7440508	0.02	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	4	26	7.4	12		2062
108	11455	<i>Oncorhynchus tshawytscha</i>	7440508	0.02	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	4	30	7.4	12		2062
108	11457	<i>Oncorhynchus tshawytscha</i>	7440508	0.03	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	4	55	7.4	12		2062
108	11458	<i>Oncorhynchus tshawytscha</i>	7440508	0.03	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	4	43	7.4	12		2062
108	12374	<i>Oncorhynchus tshawytscha</i>	7447394	0.026	LC50/MOR//	alevin, 0.05 g	LAB/F/S	4	23	7.1	12.2		2027
108	12375	<i>Oncorhynchus tshawytscha</i>	7447394	0.019	LC50/MOR//	swim-up, 0.23 g	LAB/F/S	4	23	7.1	12.2		2027
108	12376	<i>Oncorhynchus tshawytscha</i>	7447394	0.038	LC50/MOR//	parr, 11.58 g, 9.6 cm	LAB/F/S	4	23	7.1	12.2		2027
108	12377	<i>Oncorhynchus tshawytscha</i>	7447394	0.026	LC50/MOR//	smolt, 32.46 g, 14.4 cm	LAB/F/S	4	23	7.1	12.2		2027
108	12378	<i>Oncorhynchus tshawytscha</i>	7447394	0.02	LC50/MOR//	alevin, 0.05 g	LAB/F/S	8.33	23	7.1	12.2		2027
108	12379	<i>Oncorhynchus tshawytscha</i>	7447394	0.019	LC50/MOR//	swim-up, 0.23 g	LAB/F/S	8.33	23	7.1	12.2		2027
108	12380	<i>Oncorhynchus tshawytscha</i>	7447394	0.03	LC50/MOR//	parr, 11.58 g, 9.6 cm	LAB/F/S	8.33	23	7.1	12.2		2027
108	12381	<i>Oncorhynchus tshawytscha</i>	7447394	0.026	LC50/MOR//	smolt, 32.46 g, 14.4 cm	LAB/F/S	8.33	23	7.1	12.2		2027
108	16888	<i>Oncorhynchus tshawytscha</i>	7758987	0.174	/MOR//	green egg	LAB/F/S	10	44	7	13.5		9582

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
108	12422	<i>Ptychocheilus oregonensis</i>	7447394	0.023	LC50/MOR//	juvenile, 1.33 g, 5.0 cm	LAB/F/S	4	25	7.3	7.8		461
108	12423	<i>Ptychocheilus oregonensis</i>	7447394	0.018	LC50/MOR//	juvenile, 3.69 g, 7.2 cm	LAB/F/S	4	25	7.3	11.5		461
108	12424	<i>Ptychocheilus oregonensis</i>	7447394	0.011	LC50/MOR//	juvenile, 1.33 g, 5.0 cm	LAB/F/S	7	25	7.3	7.8		461
108	12425	<i>Ptychocheilus oregonensis</i>	7447394	0.011	LC50/MOR//	juvenile, 3.69 g, 7.2 cm	LAB/F/S	7	25	7.3	11.5		461
108	15617	<i>Rana hexadactyla</i>	7758987	0.039	LC50/MOR/INC/	20(15-25) mm, 500(350-800) mg,	LAB/R/I	4	20	6.1	15	acidity, ca, mg	11438
108	15625	<i>Rana hexadactyla</i>	7758987	0.039	LC50/MOR//	tadpole, 20 mm, 500 mg	LAB/S/S	4	20	6.2	15	acidity 19 mg/l	11395
108	11581	<i>Salvelinus fontinalis</i>	7440508	0.187	IC50/GRO/DEC/		LAB/R/C	10	20	6.95	15		45106
108	11582	<i>Salvelinus fontinalis</i>	7440508	0.292	IC50/GRO/DEC/		LAB/R/C	10	22	7	15		45106
108	11583	<i>Salvelinus fontinalis</i>	7440508	0.158	LOEC/MOR/DEC/SIG		LAB/R/C	10	20	6.95	15		45106
108	11584	<i>Salvelinus fontinalis</i>	7440508	0.158	LOEC/GRO/DEC/SIG		LAB/R/C	10	20	6.95	15		45106
108	11585	<i>Salvelinus fontinalis</i>	7440508	0.16	LOEC/GRO/DEC/SIG		LAB/R/C	10	22	7	15		45106
108	11586	<i>Salvelinus fontinalis</i>	7440508	0.438	LOEC/MOR/DEC/		LAB/R/C	10	22	7	15		45106
108	11587	<i>Salvelinus fontinalis</i>	7440508	0.109	MATC/GRO/DEC/		LAB/R/C	10	20	6.95	15		45106
108	11588	<i>Salvelinus fontinalis</i>	7440508	0.112	MATC/GRO/DEC/		LAB/R/C	10	22	7	15		45106
108	11589	<i>Salvelinus fontinalis</i>	7440508	0.075	NOEC/MOR/DEC/NOSIG		LAB/R/C	10	20	6.95	15		45106
108	11590	<i>Salvelinus fontinalis</i>	7440508	0.075	NOEC/GRO/DEC/NOSIG		LAB/R/C	10	20	6.95	15		45106
108	11591	<i>Salvelinus fontinalis</i>	7440508	0.079	NOEC/GRO/DEC/NOSIG		LAB/R/C	10	22	7	15		45106
108	11592	<i>Salvelinus fontinalis</i>	7440508	0.312	NOEC/MOR/DEC/NOSIG		LAB/R/C	10	22	7	15		45106
108	15678	<i>Salvelinus fontinalis</i>	7758987	0.09	LC50/MOR/INC/		LAB/F/C	4	45.4	7.5	12		2070
108	15679	<i>Salvelinus fontinalis</i>	7758987	0.11	LC50/MOR/INC/		LAB/F/C	4	45.4	7.5	12		2070
108	17019	<i>Salvelinus fontinalis</i>	7758987	0.555	/MOR//	eyed embryo	LAB/F/I	16	45.4	7.6	5.6	acidity 1.9(1.1-4.2) mg/l as caco3	2436
108	17025	<i>Salvelinus namaycush</i>	7758987	0.555	/MOR//	eyed embryo	LAB/F/I	27	45.4	7.6	5.5	acidity 1.9(1.1-4.2) mg/l as caco3	2436
109	Vertebrates exposed to copper in soft water at <15degC over 1-3 days exposure												
109	13431	<i>Cyprinus carpio</i>	7758987	0.095	LC50/MOR//	2.1(1.4-2.6) g, 56(47-62) mm	LAB/S/S	2	19	6.3	15	acidity, ca, mg	10782
109	13434	<i>Cyprinus carpio</i>	7758987	0.095	LC50/MOR/INC/	1.4-2.6 g, 47-62 mm	LAB/R/S	2	19	6.3	15	acidity 18(15-23) mg/l, ca, mg	11716
109	13435	<i>Cyprinus carpio</i>	7758987	0.084	LC50/MOR/INC/	1.4-2.6 g, 47-62 mm	LAB/R/S	3	19	6.3	15	acidity 18(15-23) mg/l, ca, mg	11716
109	10504	<i>Oncorhynchus mykiss</i>	1344678	0.01	LT50/MOR//		LAB//S	2.56	46	7	10		5302

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
109	10505	<i>Oncorhynchus mykiss</i>	1344678	0.1	LT50/MOR//		LAB/S	2.15	46	7	10		5302
109	11917	<i>Oncorhynchus mykiss</i>	7440508	0.085	/MOR//	75-100 g	LAB/S/I	2	50	7.3	9		15401
109	12293	<i>Oncorhynchus mykiss</i>	7447394	0.023	LC50/MOR/INC/	fry, 29-32 mm tl	LAB/F/C	2	25.1	7.5	9.8		20081
109	16867	<i>Oncorhynchus mykiss</i>	7758987	0.5	/HIS/CHG/	21.5 cm, 126 g	LAB/S/S	2.08	27.5	6.5	13	repeated 1 h exposure separated by 48 h	2201
109	11453	<i>Oncorhynchus tshawytscha</i>	7440508	0.02	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	2	29	7.4	12		2062
109	11456	<i>Oncorhynchus tshawytscha</i>	7440508	0.03	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	2	48	7.4	12		2062
109	15618	<i>Rana hexadactyla</i>	7758987	0.039	LC50/MOR/INC/	20(15-25) mm, 500(350-800) mg,	LAB/R/I	3	20	6.1	15	acidity, ca, mg	11438
109	15619	<i>Rana hexadactyla</i>	7758987	0.042	LC50/MOR/INC/	20(15-25) mm, 500(350-800) mg,	LAB/R/I	2	20	6.1	15	acidity, ca, mg	11438
109	15623	<i>Rana hexadactyla</i>	7758987	0.042	LC50/MOR//	tadpole, 20 mm, 500 mg	LAB/S/S	2	20	6.2	15	acidity 19 mg/l	11395
109	15624	<i>Rana hexadactyla</i>	7758987	0.039	LC50/MOR//	tadpole, 20 mm, 500 mg	LAB/S/S	3	20	6.2	15	acidity 19 mg/l	11395
109	15662	<i>Salmo salar</i>	7758987	0.0506	LT50/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	1.29	14	6.8	4.3	ca	8483
109	15664	<i>Salmo salar</i>	7758987	0.0525	LT50/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	1.58	14	6.8	4.3	ca	8483
109	15665	<i>Salmo salar</i>	7758987	0.0998	LT50/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	1.08	14	6.8	4.3	ca	8483
109	15666	<i>Salmo salar</i>	7758987	0.0563	LT50/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	1.13	14	6.8	4.3	mg	8483
110	Vertebrates exposed to copper in soft water at <15degC over <=1 day exposure												
110	13066	<i>Carassius auratus</i>	7758987	2.7	LC50/MOR//	1.93 (0.6-5.8) g,4.59 (3.1-6.6) mm	LAB/S/I	1	36	7.2	5		518
110	13067	<i>Carassius auratus</i>	7758987	2.9	LC50/MOR//	1.93 (0.6-5.8) g,4.59 (3.1-6.6) mm	LAB/S/I	1	36	7.2	15		518
110	13430	<i>Cyprinus carpio</i>	7758987	0.11	LC50/MOR//	2.1(1.4-2.6) g, 56(47-62) mm	LAB/S/S	1	19	6.3	15	acidity, ca, mg	10782
110	13432	<i>Cyprinus carpio</i>	7758987	0.164	LC50/MOR/INC/	1.4-2.6 g, 47-62 mm	LAB/R/S	0.5	19	6.3	15	acidity 18(15-23) mg/l, ca, mg	11716
110	13433	<i>Cyprinus carpio</i>	7758987	0.11	LC50/MOR/INC/	1.4-2.6 g, 47-62 mm	LAB/R/S	1	19	6.3	15	acidity 18(15-23) mg/l, ca, mg	11716

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
110	14023	<i>Ictalurus punctatus</i>	7758987	3.7	LC50/MOR//	8.81(2.0-20.3) g,9.72(6.3-13.4) mm	LAB/S/I	1	36	7.2	5		518
110	14024	<i>Ictalurus punctatus</i>	7758987	2.6	LC50/MOR//	8.81(2.0-20.3) g,9.72(6.3-13.4) mm	LAB/S/I	1	36	7.2	15		518
110	14113	<i>Lepomis macrochirus</i>	7758987	2.59	LC50/MOR//	0.64 (0.1-3.0) g,3.43 (2.2-5.8) mm	LAB/S/I	1	36	7.2	5		518
110	14114	<i>Lepomis macrochirus</i>	7758987	2.5	LC50/MOR//	0.64 (0.1-3.0) g,3.43 (2.2-5.8) mm	LAB/S/I	1	36	7.2	15		518
110	14394	<i>Notemigonus crysoleucas</i>	7758987	0.33	LC50/MOR//	2.56 (0.6-4.9) g,6.42 (3.2-7.6) mm	LAB/S/I	1	36	7.2	5		518
110	14395	<i>Notemigonus crysoleucas</i>	7758987	0.23	LC50/MOR//	2.56 (0.6-4.9) g,6.42 (3.2-7.6) mm	LAB/S/I	1	36	7.2	15		518
110	12500	<i>Oncorhynchus clarki</i>	7447394	0.0074	/AVO/DEC/SIG		LAB/F/C	0.01	50	7.2	12		45186
110	12501	<i>Oncorhynchus clarki</i>	7447394	0.0074	/AVO/DEC/NOSIG		LAB/F/C	0.01	50	7.2	12		45186
110	12502	<i>Oncorhynchus clarki</i>	7447394	0.0074	/AVO/DEC/SIG		LAB/F/C	0.01	50	7.2	12		45186
110	10808	<i>Oncorhynchus kisutch</i>	3251238	3	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	10		15148
110	12620	<i>Oncorhynchus kisutch</i>	7447394	5	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	11		15148
110	16784	<i>Oncorhynchus kisutch</i>	7758987	4	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	12		15148
110	16785	<i>Oncorhynchus kisutch</i>	7758987	5	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	8.9		15148
110	10502	<i>Oncorhynchus mykiss</i>	1344678	10	LT50/MOR//		LAB/S	0.14	46	7	10		5302
110	10506	<i>Oncorhynchus mykiss</i>	1344678	1	LT50/MOR//		LAB/S	0.52	46	7	10		5302
110	10744	<i>Oncorhynchus mykiss</i>	3251238	0.25	/BCM/INC/MULT	25-35 g	LAB/F/M	1	28.4	7.5	10		16784
110	10745	<i>Oncorhynchus mykiss</i>	3251238	0.25	/PHY/INC/	25-35 g	LAB/F/M	1	28.4	7.5	10		16784
110	11916	<i>Oncorhynchus mykiss</i>	7440508	0.17	/PHY//	75-100 g	LAB/S/I	0.33	50	7.3	9		15401
110	12519	<i>Oncorhynchus mykiss</i>	7447394	0.1714	/PHY/CHG/MULT	juvenile, 197-280 mm	LAB/F/M	0.04	24.5	7.68	12.3		20411
110	12520	<i>Oncorhynchus mykiss</i>	7447394	0.1714	/CEL/CHG/MULT	juvenile, 197-280 mm	LAB/F/C	0.1	24.5	7.68	12.3		20411
110	12521	<i>Oncorhynchus mykiss</i>	7447394	0.18	/AVO/CHG/MULT	juvenile, 34-110 mm tl	LAB/F/C	0.01	25.3	7.5	10.2		20216

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
110	12631	<i>Oncorhynchus mykiss</i>	7447394	0.0064	/AVO//	3 mo after swim-up, 10 g, 7 cm	LAB/F/S	0.03	28.4	7.3	12		15715
110	12632	<i>Oncorhynchus mykiss</i>	7447394	0.0073	/AVO//	3 mo after swim-up, 10 g, 7 cm	LAB/F/S	0.03	28.4	7.3	12		15715
110	14455	<i>Oncorhynchus mykiss</i>	7758987	0.95	LC50/MOR//	4.42(1.1-11.8) g, 7.25(4.0-10.6) mm	LAB/S/I	1	36	7.2	5		518
110	14456	<i>Oncorhynchus mykiss</i>	7758987	0.43	LC50/MOR//	4.42(1.1-11.8) g, 7.25(4.0-10.6) mm	LAB/S/I	1	36	7.2	12		518
110	16192	<i>Oncorhynchus mykiss</i>	7758987	0.5	/BCM/INC/SIG	17.5 cm, 103.4 g	LAB/S/S	0.04	27.5	6.5	11		2201
110	16193	<i>Oncorhynchus mykiss</i>	7758987	0.5	/BCM/INC/MULT	21.5 cm, 126 g	LAB/S/S	0.04	27.5	6.5	13		2201
110	10825	<i>Oncorhynchus tshawytscha</i>	3251238	3	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	10		15148
110	12529	<i>Oncorhynchus tshawytscha</i>	7447394	0.1131	/PHY/CHG/MULT	juvenile, 170-275 mm	LAB/F/M	0.04	24.5	7.68	12.3		20411
110	12530	<i>Oncorhynchus tshawytscha</i>	7447394	0.1131	/CEL/CHG/MULT	juvenile, 170-275 mm	LAB/F/C	0.1	24.5	7.68	12.3		20411
110	12531	<i>Oncorhynchus tshawytscha</i>	7447394	0.1704	/AVO/CHG/MULT	juvenile, 65-160 mm tl, presmolt	LAB/F/C	0.01	25.3	7.5	10.2		20216
110	12703	<i>Oncorhynchus tshawytscha</i>	7447394	5	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	11		15148
110	16889	<i>Oncorhynchus tshawytscha</i>	7758987	4	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	12		15148
110	16890	<i>Oncorhynchus tshawytscha</i>	7758987	5	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	8.9		15148
110	10837	<i>Ptychocheilus oregonensis</i>	3251238	3	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	10		15148
110	12710	<i>Ptychocheilus oregonensis</i>	7447394	5	/BEH//	5-10 cm	LAB/S/I	1	8.5	7.2	11		15148
110	12711	<i>Ptychocheilus oregonensis</i>	7447394	5	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	11		15148
110	17001	<i>Ptychocheilus oregonensis</i>	7758987	4	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	12		15148
110	17002	<i>Ptychocheilus oregonensis</i>	7758987	5	/MOR//	5-10 cm	LAB/S/I	1	8.5	7.2	8.9		15148
110	15620	<i>Rana hexadactyla</i>	7758987	0.45	LC50/MOR/INC/	20(15-25) mm, 500(350-800) mg,	LAB/R/I	1	20	6.1	15	acidity, ca, mg	11438
110	15621	<i>Rana hexadactyla</i>	7758987	0.155	LC50/MOR//	tadpole, 20 mm, 500 mg	LAB/S/S	0.5	20	6.2	15	acidity 19 mg/l	11395

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
110	15622	<i>Rana hexadactyla</i>	7758987	0.045	LC50/MOR//	tadpole, 20 mm, 500 mg	LAB/S/S	1	20	6.2	15	acidity 19 mg/l	11395
110	15663	<i>Salmo salar</i>	7758987	0.0832	LT50/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	0.92	14	6.8	4.3	ca	8483
110	15667	<i>Salmo salar</i>	7758987	0.0979	LT50/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	0.88	14	6.8	4.3	mg	8483
110	17015	<i>Salvelinus fontinalis</i>	7758987	0.0095	/PHY//	yearling, 157 mm, 39 g	LAB/F/S	1	45	7.645	8.5		2433
110	17016	<i>Salvelinus fontinalis</i>	7758987	0.0063	/PHY//	yearling, 157 mm, 39 g	LAB/F/S	1	45	7.645	8.5		2433
110	17017	<i>Salvelinus fontinalis</i>	7758987	0.0063	/BEH//	yearling, 157 mm, 39 g	LAB/F/S	0.08	45	7.645	8.5		2433
110	17018	<i>Salvelinus fontinalis</i>	7758987	0.0063	/FDB//	yearling, 157 mm, 39 g	LAB/F/S	0.08	45	7.645	8.5		2433
111	Vertebrates exposed to copper in soft water at >15degC over 3-30 days exposure												
111	12820	<i>Anguilla japonica</i>	7758987	0.06	LC50/MOR/INC/	juvenile, 0.135 g, 5.6 cm	LAB/R/	4	44.5	7.585	30		18914
111	12821	<i>Anguilla japonica</i>	7758987	0.31	LC50/MOR/INC/	juvenile, 0.135 g, 5.6 cm	LAB/R/	4	45.5	7.55	25		18914
111	15916	<i>Anguilla japonica</i>	7758987	12.85	/GRO/CHG/NOSIG	juvenile, 0.135 g, 5.6 cm	LAB/R/C	28	39	7.555	22.5		18914
111	15917	<i>Anguilla japonica</i>	7758987	12.85	/FDB/CHG/NOSIG	juvenile, 0.135 g, 5.6 cm	LAB/R/C	28	39	7.555	22.5		18914
111	15918	<i>Anguilla japonica</i>	7758987	12.85	/PHY/CHG/NOSIG	juvenile, 0.135 g, 5.6 cm	LAB/R/C	28	39	7.555	22.5		18914
111	10535	<i>Anguilla rostrata</i>	3251238	6.4	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
111	10869	<i>Anguilla rostrata</i>	7440508	6	LC50/MOR//		LAB/S/I	4	55	8	28		2002
111	12823	<i>Anguilla rostrata</i>	7758987	2.54	LC50/MOR//	glass eel stage,55 mm	LAB/S/S	4	44	7.4	22		593
111	12824	<i>Anguilla rostrata</i>	7758987	3.2	LC50/MOR//	black eel stage,97.2 mm	LAB/S/S	4	44	7.4	22		592
111	12888	<i>Bidyanus bidyanus</i>	7758987	0.16	LC50/MOR/INC/		LAB/R/	4	54	7.5	25		9957
111	12889	<i>Bidyanus bidyanus</i>	7758987	0.14	LC50/MOR/INC/		LAB/R/	8	54	7.5	25		9957
111	13065	<i>Carassius auratus</i>	7758987	0.3	LC50/MOR//	3.1-6.0 cm	LAB/F/S	4	52	7.33	21	conductivity 262 (162-680) umhos/cm	5619
111	13078	<i>Carassius auratus</i>	7758987	0.24	LC50/MOR/INC/	5-8 cm	LAB/R/	4	9.5	6.5	28		16991
111	13093	<i>Carassius auratus</i>	7758987	0.15	LC50/MOR/INC/		LAB/S/C	4	34.2	6.85	27		45206
111	13094	<i>Carassius auratus</i>	7758987	0.14	LC50/MOR/INC/		LAB/S/C	5	34.2	6.85	27		45206

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
111	13099	<i>Carassius auratus</i>	7758987	0.036	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.25	25		2033
111	13367	<i>Craterocephalus stercusmuscaru</i>	7758987	0.019	LC50/MOR/INC/	0.16 g, 25.0 mm	LAB/S/C	4	6.6	6.9	27	buffalo billabong water	4126
111	13368	<i>Craterocephalus stercusmuscaru</i>	7758987	0.017	LC50/MOR/INC/	0.16 g, 25.0 mm	LAB/S/C	4	6.6	6.9	27	buffalo billabong water	4126
111	13369	<i>Craterocephalus stercusmuscaru</i>	7758987	0.021	LC50/MOR/INC/	0.12 g, 22.8 mm	LAB/S/C	4	6.6	7.3	27	buffalo billabong water	4126
111	10624	<i>Cyprinus carpio</i>	3251238	0.81	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
111	11125	<i>Cyprinus carpio</i>	7440508	0.8	LC50/MOR//		LAB/S/I	4	55	8	28		2002
111	13461	<i>Danio rerio</i>	7758987	0.096	LC50/MOR//	320 mg	LAB/F/S	4	57	7.5	25		12401
111	13471	<i>Danio rerio</i>	7758987	0.12	LC50/MOR//	610 mg	LAB/F/S	4	53	7.6	25		12401
111	16630	<i>Esox lucius</i>	7758987	0.5	/MOR//	green eggs	LAB/F/I	6	45.4	7.6	15.6	acidity 1.9(1.1-4.2) mgl as caco3	2436
111	10431	<i>Gambusia affinis</i>	1332407	1.75	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I	4	31.53	7.52	27.1	conductivity 475 umho, free cl, acidity	568
111	10643	<i>Gambusia affinis</i>	3251238	0.093	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I	4	31.53	7.52	27.1	conductivity 475 umho, free cl - nil, acidity 3.78 ppm	568
111	13895	<i>Gambusia affinis</i>	7758987	0.2	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I	4	31.53	7.52	27.1	conductivity 475 umho, nil free cl, acidity 3.78 ppm	568
111	11326	<i>Ictalurus punctatus</i>	7440508	0.065	LC50/MOR/INC/	fingerling, 3.9 g, 8.6 cm	LAB/S/C	4	16	7.3	19.25		4306
111	11330	<i>Ictalurus punctatus</i>	7440508	0.051	LC50/MOR/INC/	fingerling, 3.9 g, 8.6 cm	LAB/S/C	4	16	7.3	19.25		4306
111	14029	<i>Ictalurus punctatus</i>	7758987	0.054	LC50/MOR/INC/	fingerling, 3.9 g, 8.6 cm	LAB/S/S	4	16	7.3	19.25		4306
111	14033	<i>Ictalurus punctatus</i>	7758987	0.055	LC50/MOR/INC/	fingerling, 3.9 g, 8.6 cm	LAB/S/S	4	16	7.3	19.25		4306
111	10655	<i>Lepomis gibbosus</i>	3251238	2.4	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
111	11340	<i>Lepomis gibbosus</i>	7440508	2.7	LC50/MOR//		LAB/S/I	4	55	8	28		2002
111	12209	<i>Lepomis macrochirus</i>	7447394	1	LC50/MOR/INC/	50.1 (28-68) mm	LAB/F/C	4	25	7	20.75		6316
111	12211	<i>Lepomis macrochirus</i>	7447394	0.9	LC50/MOR//	49 mm	LAB/F/S	4	40.2	7.15	22	conductivity 106-136 umhoscm	586
111	12212	<i>Lepomis macrochirus</i>	7447394	1.1	LC50/MOR//	49 mm	LAB/F/S	4	40.2	7.15	19	conductivity 106-136 umhoscm	586
111	14147	<i>Lepomis macrochirus</i>	7758987	1.1	LC50/MOR//	12 cm, 35 g, 2 yr, juvenile	LAB/F/S	4	45	7.5	20	lake superior water	5084

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
111	14157	<i>Lepomis macrochirus</i>	7758987	0.66	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.25	25		2033
111	17063	<i>Lepomis macrochirus</i>	7758998	0.892	LC50/MOR/INC/	5.48-5.96 cm, 2.00 g	LAB/R/C	4	10.5	7.285	25		9058
111	17107	<i>Lepomis macrochirus</i>	7758998	1.489	/IMM/INC/NOSIG	5.48-5.96 cm, 2.00 g	LAB/R/C	4	10.5	7.285	25		9058
111	17108	<i>Lepomis macrochirus</i>	7758998	1.489	/GRO/CHG/NOSIG	5.48-5.96 cm, 2.00 g	LAB/R/C	4	10.5	7.285	25		9058
111	17109	<i>Lepomis macrochirus</i>	7758998	1.567	NR-LETH/MOR/INC/	5.48-5.96 cm, 2.00 g	LAB/R/C	4	10.5	7.285	25		9058
111	17110	<i>Lepomis macrochirus</i>	7758998	0.524	NR-ZERO/MOR/NEF/	5.48-5.96 cm, 2.00 g	LAB/R/C	4	10.5	7.285	25		9058
111	14296	<i>Melanotaenia nigrans</i>	7758987	0.12	LC50/MOR/INC/	0.41 g, 40.9 mm	LAB/S/C	4	25.2	7.3	27	buffalo billabong water	4126
111	14297	<i>Melanotaenia nigrans</i>	7758987	0.14	LC50/MOR/INC/	0.60 g, 38.2 mm	LAB/S/C	4	25.5	7.2	27	buffalo billabong water	4126
111	14298	<i>Melanotaenia nigrans</i>	7758987	0.14	LC50/MOR/INC/	0.60 g, 38.2 mm	LAB/S/C	4	25.5	7.2	27	buffalo billabong water	4126
111	14306	<i>Melanotaenia splendida inornat</i>	7758987	0.25	LC50/MOR/INC/	1.4 g, 49.4 mm	LAB/S/C	4	7	6.9	27	buffalo billabong water	4126
111	14307	<i>Melanotaenia splendida inornat</i>	7758987	0.25	LC50/MOR/INC/	1.4 g, 49.4 mm	LAB/S/C	4	7	6.9	27	buffalo billabong water	4126
111	14308	<i>Melanotaenia splendida inornat</i>	7758987	0.06	LC50/MOR/INC/	0.32 g, 28.2 mm	LAB/S/C	4	3.3	6.9	27	buffalo billabong water	4126
111	10663	<i>Morone americana</i>	3251238	6.2	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
111	11348	<i>Morone americana</i>	7440508	6.4	LC50/MOR//		LAB/S/I	4	55	8	28		2002
111	10666	<i>Morone saxatilis</i>	3251238	4.3	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
111	11358	<i>Morone saxatilis</i>	7440508	4	LC50/MOR//		LAB/S/I	4	55	8	28		2002
111	11377	<i>Oncorhynchus kisutch</i>	7440508	0.086	LC50/MOR/INC/		LAB/F/C	4	31.6	7.5	15.7		45201
111	11378	<i>Oncorhynchus kisutch</i>	7440508	0.082	LC50/MOR/INC/		LAB/F/C	9	31.6	7.5	15.7		45201
111	11379	<i>Oncorhynchus kisutch</i>	7440508	0.077	LC50/MOR/INC/		LAB/F/C	9	31.6	7.5	15.7		45201
111	11380	<i>Oncorhynchus kisutch</i>	7440508	0.09	LC50/MOR/INC/		LAB/F/C	4	31.6	7.5	15.7		45201
111	11381	<i>Oncorhynchus kisutch</i>	7440508	0.084	LC50/MOR/INC/		LAB/F/C	9	31.6	7.5	15.7		45201
111	11382	<i>Oncorhynchus kisutch</i>	7440508	0.084	LC50/MOR/INC/		LAB/F/C	9	31.6	7.5	15.7		45201

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
111	11383	<i>Oncorhynchus kisutch</i>	7440508	0.062	LC50/MOR/INC/		LAB/F/C	9	31.8	7.3	16.7		45201
111	11384	<i>Oncorhynchus kisutch</i>	7440508	0.039	LC50/MOR/INC/		LAB/F/C	9	31.8	7.3	16.7		45201
111	11385	<i>Oncorhynchus kisutch</i>	7440508	0.103	LC50/MOR/INC/		LAB/F/C	4	31	7.2	15.3		45201
111	11386	<i>Oncorhynchus kisutch</i>	7440508	0.069	LC50/MOR/INC/		LAB/F/C	9	31	7.2	15.3		45201
111	11387	<i>Oncorhynchus kisutch</i>	7440508	0.069	LC50/MOR/INC/		LAB/F/C	9	31	7.2	15.3		45201
111	11419	<i>Oncorhynchus mykiss</i>	7440508	0.09	LC50/MOR/INC/		LAB/F/C	4	31	7.2	15.3		45201
111	11420	<i>Oncorhynchus mykiss</i>	7440508	0.055	LC50/MOR/INC/		LAB/F/C	9	31	7.2	15.3		45201
111	11421	<i>Oncorhynchus mykiss</i>	7440508	0.0535	LC50/MOR/INC/		LAB/F/C	9	31	7.2	15.3		45201
111	12282	<i>Oncorhynchus mykiss</i>	7447394	0.0028	LC50/MOR//	2.36-3.01 g	LAB/F/S	4	9.2	6.96	15.75		2725
111	12283	<i>Oncorhynchus mykiss</i>	7447394	0.0023	LC50/MOR//	2.36-3.01 g	LAB/F/S	7	9.2	6.96	15.75		2725
111	16799	<i>Oncorhynchus mykiss</i>	7758987	0.0215	/MOR//	5.74 g, 8.4 cm	LAB/F/S	30	43.8	7.15	16.75		15544
111	16800	<i>Oncorhynchus mykiss</i>	7758987	0.0215	/GRO//	5.74 g, 8.4 cm	LAB/F/S	30	43.8	7.15	16.75		15544
111	16801	<i>Oncorhynchus mykiss</i>	7758987	0.0215	/PHY//	5.74 g, 8.4 cm	LAB/F/S	30	43.8	7.15	16.75		15544
111	16802	<i>Oncorhynchus mykiss</i>	7758987	0.0215	/BCM//	5.74 g, 8.4 cm	LAB/F/S	30	43.8	7.15	16.75		15544
111	10379	<i>Pimephales promelas</i>	142712	0.14	LC50/MOR//		LAB/S/I	4	44	7.4	22	conductivity 120-160 umhos/cm	5735
111	10380	<i>Pimephales promelas</i>	142712	0.23	LC50/MOR//		LAB/S/I	4	44	7.4	22	conductivity 120-160 umhos/cm	5735
111	10383	<i>Pimephales promelas</i>	142712	0.135	LC50/MOR//	3.2-4.2 cm	LAB/S/S	4	44	7.55	22	conductivity, 120-160 uohm	875
111	10384	<i>Pimephales promelas</i>	142712	0.14	LC50/MOR//	0.3-1 g	LAB/S/S	4	44	7.55	22	conductivity 120-160 uscm	2965
111	10677	<i>Pimephales promelas</i>	3251238	0.096	LC50/MOR//	30 d, 0.15 g	LAB/F/I	4	43.9	7.4	25		12093
111	11521	<i>Pimephales promelas</i>	7440508	0.0885	LC50/MOR//		LAB/F/I	4	46	7.98	25		5081

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
111	11522	<i>Pimephales promelas</i>	7440508	0.436	LC50/MOR//		LAB/F/I	4	30	6.82	25		5081
111	11523	<i>Pimephales promelas</i>	7440508	0.516	LC50/MOR//		LAB/F/I	4	37	7.28	25		5081
111	14854	<i>Pimephales promelas</i>	7758987	0.173	LC50/ITX//	larvae, 1 d	LAB/S/I	4	36	7.44	25		5203
111	15019	<i>Pimephales promelas</i>	7758987	0.055	LC50/MOR//	larvae, 1 d	LAB/S/I	4	52	7.74	25		5203
111	15020	<i>Pimephales promelas</i>	7758987	0.18	LC50/MOR//	larvae, 1 d	LAB/S/I	4	36	7.44	25		5203
111	15021	<i>Pimephales promelas</i>	7758987	0.055	LC50/MOR//	larvae, 1 d	LAB/S/I	4	52	7.74	25		5203
111	15024	<i>Pimephales promelas</i>	7758987	0.0028	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	18.5	6.2	22	doc 0.5 mgl, conductivity 69.6 uscm	8034
111	15025	<i>Pimephales promelas</i>	7758987	0.0035	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	18.5	6.66	22	doc 0.4 mgl, conductivity 69.6 uscm	8034
111	15026	<i>Pimephales promelas</i>	7758987	0.0045	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	18.5	7.02	22	doc 0.5 mgl, conductivity 69.6 uscm	8034
111	15027	<i>Pimephales promelas</i>	7758987	0.0048	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	18.5	7.06	22	doc 0.6 mgl, conductivity 69.6 uscm	8034
111	15028	<i>Pimephales promelas</i>	7758987	0.0082	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	18.5	7.25	22	doc 0.4 mgl, conductivity 69.6 uscm	8034
111	15033	<i>Pimephales promelas</i>	7758987	0.0316	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	18.5	6.36	22	doc 3.3 mgl, conductivity 69.6 uscm	8034
111	15034	<i>Pimephales promelas</i>	7758987	0.0211	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	18.5	6.42	22	doc 3.1 mgl, conductivity 69.6 uscm	8034
111	15035	<i>Pimephales promelas</i>	7758987	0.036	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	18.5	6.38	22	doc 4.3 mgl, conductivity 69.6 uscm	8034
111	15036	<i>Pimephales promelas</i>	7758987	0.0477	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	18.5	7.1	22	doc 3.3 mgl, conductivity 69.6 uscm	8034

mg total metal/L, hardness in mg CaCO₃/L

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111	15037	<i>Pimephales promelas</i>	7758987	0.0598	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	18.5	7.15	22	doc 3.4 mg/l, conductivity 69.6 uscm	8034
111	15038	<i>Pimephales promelas</i>	7758987	0.0048	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	19	7.16	22	doc 0.8 mg/l, conductivity 56.3 uscm	8034
111	15039	<i>Pimephales promelas</i>	7758987	0.0703	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	19	7.13	22	doc 5.1 mg/l, conductivity 56.3 uscm	8034
111	15040	<i>Pimephales promelas</i>	7758987	0.0856	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	19	7.06	22	doc 10.5 mg/l, conductivity 56.3 uscm	8034
111	15041	<i>Pimephales promelas</i>	7758987	0.1054	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	19	7.05	22	doc 16.0 mg/l, conductivity 56.3 uscm	8034
111	15042	<i>Pimephales promelas</i>	7758987	0.182	LC50/MOR//	fry <1 d, 0.68 mg	LAB/S/S	4	19	6.9	22	doc 15.6 mg/l, conductivity 56.3 uscm	8034
111	15199	<i>Pimephales promelas</i>	7758987	0.0107	LC50/MOR/INC/	<24 h, larvae	LAB/S/C	4	9.9	6.64	20	solitaire lake water	17105
111	15202	<i>Pimephales promelas</i>	7758987	0.0122	LC50/MOR/INC/	<24 h, larvae	LAB/S/C	4	8.3	6	20	sherbourne lake water	17105
111	15204	<i>Pimephales promelas</i>	7758987	0.0268	LC50/MOR/INC/	<24 h, larvae	LAB/S/C	4	16.8	6.9	20	st mary's lake water	17105
111	15205	<i>Pimephales promelas</i>	7758987	0.0212	LC50/MOR/INC/	<24 h, larvae	LAB/S/C	4	12.2	6.6	20	harp lake water	17105
111	15207	<i>Pimephales promelas</i>	7758987	0.0198	LC50/MOR/INC/	<24 h, larvae	LAB/S/C	4	9.4	6.08	20	dickie lake water	17105
111	15208	<i>Pimephales promelas</i>	7758987	0.0319	LC50/MOR/INC/	<24 h, larvae	LAB/S/C	4	11.4	6.12	20	delano lake water	17105
111	15214	<i>Pimephales promelas</i>	7758987	0.1695	LC50/MOR/INC/	<24 h, larvae	LAB/S/C	4	17.4	6.39	20	brandy lake water	17105
111	15216	<i>Pimephales promelas</i>	7758987	0.0125	LC50/MOR/INC/	2-4 d	LAB/S/C	4	8	7.45	21.9	water-only	18527
111	15217	<i>Pimephales promelas</i>	7758987	0.0082	LC50/MOR/INC/	2-4 d	LAB/S/C	7	8	7.45	21.9	water-only	18527
111	15218	<i>Pimephales promelas</i>	7758987	0.0069	LC50/MOR/INC/	2-4 d	LAB/S/C	10	8	7.45	21.9	water-only	18527
111	15227	<i>Pimephales promelas</i>	7758987	0.0088	LC50/MOR/INC/	2-4 d	LAB/S/C	14	8	7.45	21.9	water only	18527

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
111	15250	<i>Pimephales promelas</i>	7758987	0.0275	LC50/MOR/INC/		LAB/F/C	4	9.28	6.35	24	dickie lake	45189
111	15251	<i>Pimephales promelas</i>	7758987	0.0275	LC50/MOR/INC/		LAB/F/C	5	9.28	6.35	24	dickie lake	45189
111	15252	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	6	9.28	6.35	24	dickie lake	45189
111	15253	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	7	9.28	6.35	24	dickie lake	45189
111	15254	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	8	9.28	6.35	24	dickie lake	45189
111	15255	<i>Pimephales promelas</i>	7758987	0.02	LC50/MOR/INC/		LAB/F/C	9	9.28	6.35	24	dickie lake	45189
111	15256	<i>Pimephales promelas</i>	7758987	0.02	LC50/MOR/INC/		LAB/F/C	10	9.28	6.35	24	dickie lake	45189
111	15257	<i>Pimephales promelas</i>	7758987	0.0175	LC50/MOR/INC/		LAB/F/C	11	9.28	6.35	24	dickie lake	45189
111	15258	<i>Pimephales promelas</i>	7758987	0.0175	LC50/MOR/INC/		LAB/F/C	12	9.28	6.35	24	dickie lake	45189
111	15259	<i>Pimephales promelas</i>	7758987	0.0175	LC50/MOR/INC/		LAB/F/C	13	9.28	6.35	24	dickie lake	45189
111	15260	<i>Pimephales promelas</i>	7758987	0.0175	LC50/MOR/INC/		LAB/F/C	14	9.28	6.35	24	dickie lake	45189
111	15261	<i>Pimephales promelas</i>	7758987	0.0175	LC50/MOR/INC/		LAB/F/C	15	9.28	6.35	24	dickie lake	45189
111	15262	<i>Pimephales promelas</i>	7758987	0.0175	LC50/MOR/INC/		LAB/F/C	16	9.28	6.35	24	dickie lake	45189
111	15263	<i>Pimephales promelas</i>	7758987	0.0175	LC50/MOR/INC/		LAB/F/C	17	9.28	6.35	24	dickie lake	45189
111	15264	<i>Pimephales promelas</i>	7758987	0.0175	LC50/MOR/INC/		LAB/F/C	18	9.28	6.35	24	dickie lake	45189
111	15265	<i>Pimephales promelas</i>	7758987	0.0175	LC50/MOR/INC/		LAB/F/C	19	9.28	6.35	24	dickie lake	45189
111	15266	<i>Pimephales promelas</i>	7758987	0.0175	LC50/MOR/INC/		LAB/F/C	20	9.28	6.35	24	dickie lake	45189
111	15267	<i>Pimephales promelas</i>	7758987	0.0175	LC50/MOR/INC/		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
111	15268	<i>Pimephales promelas</i>	7758987	0.0275	LC50/MOR/INC/		LAB/F/C	5	9.28	6.35	24	dickie lake	45189
111	15269	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	6	9.28	6.35	24	dickie lake	45189

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
111	15270	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	7	9.28	6.35	24	dickie lake	45189
111	15271	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	8	9.28	6.35	24	dickie lake	45189
111	15272	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	9	9.28	6.35	24	dickie lake	45189
111	15273	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	10	9.28	6.35	24	dickie lake	45189
111	15274	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	11	9.28	6.35	24	dickie lake	45189
111	15275	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	12	9.28	6.35	24	dickie lake	45189
111	15276	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	13	9.28	6.35	24	dickie lake	45189
111	15277	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	14	9.28	6.35	24	dickie lake	45189
111	15278	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	15	9.28	6.35	24	dickie lake	45189
111	15279	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	16	9.28	6.35	24	dickie lake	45189
111	15280	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	17	9.28	6.35	24	dickie lake	45189
111	15281	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	18	9.28	6.35	24	dickie lake	45189
111	15282	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	19	9.28	6.35	24	dickie lake	45189
111	15283	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	20	9.28	6.35	24	dickie lake	45189
111	15284	<i>Pimephales promelas</i>	7758987	0.0225	LC50/MOR/INC/		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
111	15287	<i>Pimephales promelas</i>	7758987	0.01	LC50/MOR/INC/		LAB/F/C	4	10.7	6.29	24	halls lake	45189
111	15288	<i>Pimephales promelas</i>	7758987	0.01	LC50/MOR/INC/		LAB/F/C	5	10.7	6.29	24	halls lake	45189
111	15289	<i>Pimephales promelas</i>	7758987	0.01	LC50/MOR/INC/		LAB/F/C	6	10.7	6.29	24	halls lake	45189
111	15290	<i>Pimephales promelas</i>	7758987	0.01	LC50/MOR/INC/		LAB/F/C	7	10.7	6.29	24	halls lake	45189
111	15291	<i>Pimephales promelas</i>	7758987	0.01	LC50/MOR/INC/		LAB/F/C	8	10.7	6.29	24	halls lake	45189

mg total metal/L, hardness in mg CaCO3/L

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SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
111	15292	<i>Pimephales promelas</i>	7758987	0.01	LC50/MOR/INC/		LAB/F/C	9	10.7	6.29	24	halls lake	45189
111	15293	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	10	10.7	6.29	24	halls lake	45189
111	15294	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	11	10.7	6.29	24	halls lake	45189
111	15295	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	12	10.7	6.29	24	halls lake	45189
111	15296	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	13	10.7	6.29	24	halls lake	45189
111	15297	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	14	10.7	6.29	24	halls lake	45189
111	15298	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	15	10.7	6.29	24	halls lake	45189
111	15299	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	16	10.7	6.29	24	halls lake	45189
111	15300	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	17	10.7	6.29	24	halls lake	45189
111	15301	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	18	10.7	6.29	24	halls lake	45189
111	15302	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	19	10.7	6.29	24	halls lake	45189
111	15303	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	20	10.7	6.29	24	halls lake	45189
111	15304	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	21	10.7	6.29	24	halls lake	45189
111	15307	<i>Pimephales promelas</i>	7758987	0.0125	LC50/MOR/INC/		LAB/F/C	4	10.7	6.29	24	halls lake	45189
111	15308	<i>Pimephales promelas</i>	7758987	0.0025	LC50/MOR/INC/		LAB/F/C	5	10.7	6.29	24	halls lake	45189
111	15309	<i>Pimephales promelas</i>	7758987	0.0075	LC50/MOR/INC/		LAB/F/C	6	10.7	6.29	24	halls lake	45189
111	15310	<i>Pimephales promelas</i>	7758987	0.0075	LC50/MOR/INC/		LAB/F/C	7	10.7	6.29	24	halls lake	45189
111	15311	<i>Pimephales promelas</i>	7758987	0.0075	LC50/MOR/INC/		LAB/F/C	8	10.7	6.29	24	halls lake	45189
111	15312	<i>Pimephales promelas</i>	7758987	0.0075	LC50/MOR/INC/		LAB/F/C	9	10.7	6.29	24	halls lake	45189
111	15313	<i>Pimephales promelas</i>	7758987	0.0075	LC50/MOR/INC/		LAB/F/C	10	10.7	6.29	24	halls lake	45189

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
111	15314	<i>Pimephales promelas</i>	7758987	0.0075	LC50/MOR/INC/		LAB/F/C	11	10.7	6.29	24	halls lake	45189
111	15315	<i>Pimephales promelas</i>	7758987	0.0075	LC50/MOR/INC/		LAB/F/C	12	10.7	6.29	24	halls lake	45189
111	15316	<i>Pimephales promelas</i>	7758987	0.0075	LC50/MOR/INC/		LAB/F/C	13	10.7	6.29	24	halls lake	45189
111	15317	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	14	10.7	6.29	24	halls lake	45189
111	15318	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	15	10.7	6.29	24	halls lake	45189
111	15319	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	16	10.7	6.29	24	halls lake	45189
111	15320	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	17	10.7	6.29	24	halls lake	45189
111	15321	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	18	10.7	6.29	24	halls lake	45189
111	15322	<i>Pimephales promelas</i>	7758987	0.005	LC50/MOR/INC/		LAB/F/C	19	10.7	6.29	24	halls lake	45189
111	15323	<i>Pimephales promelas</i>	7758987	0.0075	LC50/MOR/INC/		LAB/F/C	20	10.7	6.29	24	halls lake	45189
111	15324	<i>Pimephales promelas</i>	7758987	0.0075	LC50/MOR/INC/		LAB/F/C	21	10.7	6.29	24	halls lake	45189
111	15340	<i>Pimephales promelas</i>	7758987	0.025	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.25	25		2033
111	15341	<i>Pimephales promelas</i>	7758987	0.023	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.25	25		2033
111	15342	<i>Pimephales promelas</i>	7758987	0.023	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.25	25		2033
111	15343	<i>Pimephales promelas</i>	7758987	0.022	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7.25	25		2033
111	15350	<i>Pimephales promelas</i>	7758987	75	LC50/MOR//		LAB/F/I	4	31.4	7.05	25	conductivity 74-79 mhos	5075
111	15351	<i>Pimephales promelas</i>	7758987	84	LC50/MOR//		LAB/S/I	4	31.4	7.05	25	conductivity 74-79 mhos	5075
111	15357	<i>Pimephales promelas</i>	7758987	0.0062	LETC/MOR/INC/		LAB/F/C	21	10.7	6.29	24	halls lake	45189
111	15358	<i>Pimephales promelas</i>	7758987	0.0172	LETC/MOR/INC/		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
111	15380	<i>Pimephales promelas</i>	7758987	0.0125	LOEC/MOR/DEC/SIG		LAB/R/C	7	47	7.8	25	reconstituted soft water	45200

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
111	15381	<i>Pimephales promelas</i>	7758987	0.0125	LOEC/GRO/DEC/SIG		LAB/R/C	7	47	7.8	25	reconstituted soft water	45200
111	15388	<i>Pimephales promelas</i>	7758987	0.0161	LOEC/GRO/DEC/SIG		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
111	15389	<i>Pimephales promelas</i>	7758987	0.0161	LOEC/GRO/DEC/SIG		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
111	15393	<i>Pimephales promelas</i>	7758987	0.0053	LOEC/GRO/DEC/SIG		LAB/F/C	21	10.7	6.29	24	halls lake	45189
111	15404	<i>Pimephales promelas</i>	7758987	0.0088	MATC/GRO/DEC/		LAB/R/C	7	47	7.8	25	reconstituted soft water	45200
111	15412	<i>Pimephales promelas</i>	7758987	0.0086	NOEC/MOR/INC/NOSIG	2-4 d	LAB/S/C	10	8	7.45	21.9	water only	18527
111	15413	<i>Pimephales promelas</i>	7758987	0.0086	NOEC/GRO/DEC/NOSIG	2-4 d	LAB/S/C	10	8	7.45	21.9	water only	18527
111	15414	<i>Pimephales promelas</i>	7758987	0.0151	NOEC/MOR/INC/NOSIG	2-4 d	LAB/S/C	14	8	7.45	21.9	water only	18527
111	15415	<i>Pimephales promelas</i>	7758987	0.032	NOEC/GRO/DEC/NOSIG	2-4 d	LAB/S/C	14	8	7.45	21.9	water only	18527
111	15440	<i>Pimephales promelas</i>	7758987	0.0063	NOEC/MOR/DEC/NOSIG		LAB/R/C	7	47	7.8	25	reconstituted soft water	45200
111	15441	<i>Pimephales promelas</i>	7758987	0.0063	NOEC/GRO/DEC/NOSIG		LAB/R/C	7	47	7.8	25	reconstituted soft water	45200
111	15445	<i>Pimephales promelas</i>	7758987	0.0112	NOEC/GRO/DEC/NOSIG		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
111	15446	<i>Pimephales promelas</i>	7758987	0.0112	NOEC/GRO/DEC/NOSIG		LAB/F/C	21	9.28	6.35	24	dickie lake	45189
111	15448	<i>Pimephales promelas</i>	7758987	0.0036	NOEC/GRO/DEC/NOSIG		LAB/F/C	21	10.7	6.29	24	halls lake	45189
111	16281	<i>Pimephales promelas</i>	7758987	0.0032	/GRO/DEC/ANOSIG		LAB/F/C	21	10.7	6.29	24	halls lake	45189
111	16282	<i>Pimephales promelas</i>	7758987	0.0036	/GRO/DEC/NOSIG		LAB/F/C	5	10.7	6.29	24	halls lake	45189
111	16283	<i>Pimephales promelas</i>	7758987	0.0053	/GRO/DEC/SIG		LAB/F/C	5	10.7	6.29	24	halls lake	45189
111	16284	<i>Pimephales promelas</i>	7758987	0.0036	/GRO/DEC/SIG		LAB/F/C	5	10.7	6.29	24	halls lake	45189
111	16285	<i>Pimephales promelas</i>	7758987	0.0025	/GRO/DEC/NOSIG		LAB/F/C	5	10.7	6.29	24	halls lake	45189
111	16286	<i>Pimephales promelas</i>	7758987	0.014	/GRO/DEC/ANOSIG		LAB/F/C	5	10.7	6.29	24	dickie lake	45189

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
111	16287	<i>Pimephales promelas</i>	7758987	0.014	/GRO/DEC/ANOSIG		LAB/F/C	5	10.7	6.29	24	dickie lake	45189
111	10682	<i>Poecilia reticulata</i>	3251238	0.112	LC50/MOR/INC/	juvenile, 10-21 d	LAB/F/	4	35	7.4	25.9		8489
111	10683	<i>Poecilia reticulata</i>	3251238	0.138	LC50/MOR/INC/	juvenile, 10-21 d	LAB/F/	4	26.9	7.6	25		8489
111	15506	<i>Poecilia reticulata</i>	7758987	0.036	LC50/MOR//	0.1-0.2 g, 1.9-2.5 cm, 6 mo	LAB/S/I/	4	20	7.25	25		2033
111	15562	<i>Prochilodus scrofa</i>	7758987	0.029	LC50/MOR/INC/		LAB/S/C	4	24	7.3	25		52026
111	16306	<i>Prochilodus scrofa</i>	7758987	0.016	NR-ZERO/MOR/NEF/		LAB/S/C	4	24	7.3	25		52026
111	11580	<i>Salmo salar</i>	7440508	0.125	LC50/MOR//	2-3 yr	LAB/R/I/	4	9	6.6	19.5	humic acid	2068
112	Vertebrates exposed to copper in soft water at >15degC over 1-3 days exposure												
112	10534	<i>Anguilla rostrata</i>	3251238	8.2	LC50/MOR//	<=20 cm	LAB/S/I/	2	53	7.8	17		2001
112	10868	<i>Anguilla rostrata</i>	7440508	8.1	LC50/MOR//		LAB/S/I/	2	55	8	28		2002
112	13063	<i>Carassius auratus</i>	7758987	0.61	LC50/MOR//	3.1-6.0 cm	LAB/F/S	2	52	7.33	21	conductivity 262 (162-680) umhoscm	5619
112	13064	<i>Carassius auratus</i>	7758987	0.3	LC50/MOR//	3.1-6.0 cm	LAB/F/S	3	52	7.33	21	conductivity 262 (162-680) umhoscm	5619
112	13073	<i>Carassius auratus</i>	7758987	0.35	LC50/MOR/INC/	5-8 cm	LAB/S/	2	9.5	6.5	28		16991
112	13075	<i>Carassius auratus</i>	7758987	0.46	LC50/MOR/INC/	5-8 cm	LAB/S/	2	9.5	6.5	28		16991
112	13076	<i>Carassius auratus</i>	7758987	0.33	LC50/MOR/INC/	5-8 cm	LAB/R/	3	9.5	6.5	28		16991
112	13077	<i>Carassius auratus</i>	7758987	0.19	LC50/MOR/INC/	5-8 cm	LAB/R/	3	9.5	6.5	28		16991
112	13091	<i>Carassius auratus</i>	7758987	0.2	LC50/MOR/INC/		LAB/S/C	2	34.2	6.85	27		45206
112	13092	<i>Carassius auratus</i>	7758987	0.19	LC50/MOR/INC/		LAB/S/C	3	34.2	6.85	27		45206
112	13098	<i>Carassius auratus</i>	7758987	0.043	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I/	2	20	7.25	25		2033
112	10623	<i>Cyprinus carpio</i>	3251238	1	LC50/MOR//	<=20 cm	LAB/S/I/	2	53	7.8	17		2001
112	11124	<i>Cyprinus carpio</i>	7440508	1.2	LC50/MOR//		LAB/S/I/	2	55	8	28		2002
112	16498	<i>Cyprinus carpio</i>	7758987	0.7	/MOR//	fertilized eggs	LAB/R/S	3	50	7.3	26		7366
112	16499	<i>Cyprinus carpio</i>	7758987	0.09	/MOR//	fertilized eggs	LAB/R/S	3	50	7.3	26		7366
112	13477	<i>Danio rerio</i>	7758987	0.6	LC50/MOR/INC/		LAB/F/	2	10.1	8	20		17278
112	10429	<i>Gambusia affinis</i>	1332407	2.6	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I/	2	31.53	7.52	27.1	conductivity 475 umho, free cl, acidity	568
112	10430	<i>Gambusia affinis</i>	1332407	2.25	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I/	3	31.53	7.52	27.1	conductivity 475 umho, free cl, acidity	568
112	10642	<i>Gambusia affinis</i>	3251238	0.12	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I/	3	31.53	7.52	27.1	conductivity 475 umho, free cl - nil, acidity 3.78 ppm	568

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
112	10645	<i>Gambusia affinis</i>	3251238	0.14	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I	2	31.53	7.52	27.1	conductivity 475 umho, free cl - nil, acidity 3.78 ppm	568
112	13893	<i>Gambusia affinis</i>	7758987	0.46	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I	2	31.53	7.52	27.1	conductivity 475 umho, nil free cl, acidity 3.78 ppm	568
112	13894	<i>Gambusia affinis</i>	7758987	0.37	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I	3	31.53	7.52	27.1	conductivity 475 umho, nil free cl, acidity 3.78 ppms cd	568
112	14028	<i>Ictalurus punctatus</i>	7758987	0.733	LC50/MOR/INC/	0.8-1.2 g	LAB/S/S	2	40	7.7	17		4175
112	16123	<i>Ictalurus punctatus</i>	7758987	28	NR-LETH/MOR/INC/	4.4 (3.0-5.6) g, 64 (55-70) mm,	LAB//	1.38	20	7.15	24		14695
112	10654	<i>Lepomis gibbosus</i>	3251238	2.9	LC50/MOR//	<=20 cm	LAB/S/I	2	53	7.8	17		2001
112	11339	<i>Lepomis gibbosus</i>	7440508	2.9	LC50/MOR//		LAB/S/I	2	55	8	28		2002
112	12616	<i>Lepomis macrochirus</i>	7447394	1.75	/PHY/INC/	57.8 (49-74) mm,6.8 (3.2-9.6) g	LAB/F/C	2.1	49	7.15	22.5		6316
112	14096	<i>Lepomis macrochirus</i>	7758987	3	LC50/MOR//	5 g, 7(5-11) cm	LAB/S/S	2	46	8	20	specific conductivity 142 umho, tds 96.0 mgl, so4, cl-	922
112	14107	<i>Lepomis macrochirus</i>	7758987	0.732	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	2	52.35	7.65	24	see paper	2135
112	14110	<i>Lepomis macrochirus</i>	7758987	0.561	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	3	52.35	7.65	24	see paper	2135
112	14156	<i>Lepomis macrochirus</i>	7758987	0.74	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.25	25		2033
112	10662	<i>Morone americana</i>	3251238	8	LC50/MOR//	<=20 cm	LAB/S/I	2	53	7.8	17		2001
112	11347	<i>Morone americana</i>	7440508	7.9	LC50/MOR//		LAB/S/I	2	55	8	28		2002
112	10665	<i>Morone saxatilis</i>	3251238	6.2	LC50/MOR//	<=20 cm	LAB/S/I	2	53	7.8	17		2001
112	11357	<i>Morone saxatilis</i>	7440508	6.6	LC50/MOR//		LAB/S/I	2	55	8	28		2002
112	10507	<i>Oncorhynchus mykiss</i>	1344678	0.01	LT50/MOR//		LAB//S	1.59	46	6.6	16		5302
112	14478	<i>Oncorhynchus mykiss</i>	7758987	0.042	LC50/MOR/INC/	0.8-1.2 g	LAB/S/S	2	40	7.7	17		4175
112	10378	<i>Pimephales promelas</i>	142712	0.15	LC50/MOR//		LAB/S/I	2	44	7.4	22	conductivity 120-160 umhoscm	5735
112	10382	<i>Pimephales promelas</i>	142712	0.145	LC50/MOR//	3.2-4.2 cm	LAB/S/S	2	44	7.55	22	conductivity, 120-160 uohm	875

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
112	10513	<i>Pimephales promelas</i>	1344678	0.01	LT50/MOR//		LAB//S	2.1	46	6.5	24		5302
112	10518	<i>Pimephales promelas</i>	1344678	0.01	LT50/MOR//		LAB//S	2.92	46	6.5	18		5302
112	10520	<i>Pimephales promelas</i>	1344678	0.1	LT50/MOR//		LAB//S	1.37	46	6.5	18		5302
112	15215	<i>Pimephales promelas</i>	7758987	0.0202	LC50/MOR/INC/	2-4 d	LAB/S/C	2	8	7.45	21.9	water-only	18527
112	15285	<i>Pimephales promelas</i>	7758987	0.0125	LC50/MOR/INC/		LAB/F/C	2	10.7	6.29	24	halls lake	45189
112	15286	<i>Pimephales promelas</i>	7758987	0.01	LC50/MOR/INC/		LAB/F/C	3	10.7	6.29	24	halls lake	45189
112	15305	<i>Pimephales promelas</i>	7758987	0.0125	LC50/MOR/INC/		LAB/F/C	2	10.7	6.29	24	halls lake	45189
112	15306	<i>Pimephales promelas</i>	7758987	0.0125	LC50/MOR/INC/		LAB/F/C	3	10.7	6.29	24	halls lake	45189
112	15336	<i>Pimephales promelas</i>	7758987	0.035	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.25	25		2033
112	15337	<i>Pimephales promelas</i>	7758987	0.023	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.25	25		2033
112	15338	<i>Pimephales promelas</i>	7758987	0.029	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.25	25		2033
112	15339	<i>Pimephales promelas</i>	7758987	0.023	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7.25	25		2033
112	15505	<i>Poecilia reticulata</i>	7758987	0.073	LC50/MOR//	0.1-0.2 g, 1.9-2.5 cm, 6 mo	LAB/S/I	2	20	7.25	25		2033
112	16305	<i>Prochilodus scrofa</i>	7758987	0.051	NR-LETH/MOR/INC/		LAB/S/C	3	24	7.3	25		52026
112	15668	<i>Salmo salar</i>	7758987	0.034	LT50/MOR//	juvenile, 9.2 (7.2-10.9) cm	LAB/F/S	1.15	14	7.2	17		2069
113	Vertebrates exposed to copper in soft water at >15degC over <=1 day exposure												
113	10533	<i>Anguilla rostrata</i>	3251238	10.6	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17		2001
113	10867	<i>Anguilla rostrata</i>	7440508	10.6	LC50/MOR//		LAB/S/I	1	55	8	28		2002
113	11626	<i>Barbus holubi</i>	7440508	0.05	/PHY/INC/		LAB/F/B	1	60	7	22		5463
113	16410	<i>Barbus holubi</i>	7758987	0.05	/PHY//		LAB/F/I	1	60	7	22		5462
113	13062	<i>Carassius auratus</i>	7758987	1.15	LC50/MOR//	3.1-6.0 cm	LAB/F/S	1	52	7.33	21	conductivity 262 (162-680) umhos/cm	5619
113	13068	<i>Carassius auratus</i>	7758987	1.51	LC50/MOR//	1.93 (0.6-5.8) g, 4.59 (3.1-6.6) mm	LAB/S/I	1	36	7.2	30		518
113	13072	<i>Carassius auratus</i>	7758987	0.5	LC50/MOR/INC/	5-8 cm	LAB/S/	1	9.5	6.5	28		16991

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
113	13074	<i>Carassius auratus</i>	7758987	0.64	LC50/MOR/INC/	5-8 cm	LAB/S/	1	9.5	6.5	28		16991
113	13089	<i>Carassius auratus</i>	7758987	0.44	LC50/MOR/INC/		LAB/S/C	0.5	34.2	6.85	27		45206
113	13090	<i>Carassius auratus</i>	7758987	0.36	LC50/MOR/INC/		LAB/S/C	1	34.2	6.85	27		45206
113	13097	<i>Carassius auratus</i>	7758987	0.094	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.25	25		2033
113	15980	<i>Carassius auratus</i>	7758987	1	NR-LETH/MOR/INC/	5-8 cm	LAB/S/	1	9.5	6.5	28		16991
113	15981	<i>Carassius auratus</i>	7758987	0.75	NR-LETH/MOR/INC/	5-8 cm	LAB/S/	1	9.5	6.5	28		16991
113	15982	<i>Carassius auratus</i>	7758987	0.75	NR-LETH/MOR/INC/	5-8 cm	LAB/S/	1	9.5	6.5	28		16991
113	16464	<i>Channa punctata</i>	7758987	0.2	/ENZ//	120-135 mm, 15-18 g	LAB/S/S	1	59	6.85	23		11056
113	10622	<i>Cyprinus carpio</i>	3251238	2.1	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17		2001
113	11123	<i>Cyprinus carpio</i>	7440508	1.9	LC50/MOR//		LAB/S/I	1	55	8	28		2002
113	10428	<i>Gambusia affinis</i>	1332407	3	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I	1	31.53	7.52	27.1	conductivity 475 umho, free cl, acidity	568
113	10644	<i>Gambusia affinis</i>	3251238	0.19	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I	1	31.53	7.52	27.1	conductivity 475 umho, free cl - nil, acidity 3.78 ppm	568
113	13892	<i>Gambusia affinis</i>	7758987	0.94	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/I	1	31.53	7.52	27.1	conductivity 475 umho, nil free cl, acidity 3.78 ppm	568
113	14025	<i>Ictalurus punctatus</i>	7758987	3.1	LC50/MOR//	8.81(2.0-20.3) g,9.72(6.3-13.4) mm	LAB/S/I	1	36	7.2	30		518
113	10653	<i>Lepomis gibbosus</i>	3251238	3.8	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17		2001
113	11338	<i>Lepomis gibbosus</i>	7440508	3.5	LC50/MOR//		LAB/S/I	1	55	8	28		2002
113	14095	<i>Lepomis macrochirus</i>	7758987	3.2	LC50/MOR//	5 g, 7(5-11) cm	LAB/S/S	1	46	8	20	specific conductivity 142 umho, tds 96.0 mgl, so4, cl-	922
113	14101	<i>Lepomis macrochirus</i>	7758987	1.436	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	0.25	52.35	7.65	24	see paper	2135
113	14104	<i>Lepomis macrochirus</i>	7758987	0.887	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	1	52.35	7.65	24	see paper	2135
113	14115	<i>Lepomis macrochirus</i>	7758987	3.82	LC50/MOR//	0.64 (0.1-3.0) g,3.43 (2.2-5.8) mm	LAB/S/I	1	36	7.2	30		518
113	14155	<i>Lepomis macrochirus</i>	7758987	0.86	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.25	25		2033
113	11783	<i>Micropterus salmoides</i>	7440508	0.05	/PHY/INC/		LAB/F/B	1	60	7	22		5463

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
113	16763	<i>Micropterus salmoides</i>	7758987	0.048	/PHY//		LAB/F/I	1	60	7	22		5462
113	16767	<i>Micropterus salmoides</i>	7758987	1.23	/PHY//	80.4 g, 17.8 cm	LAB/F/U	0.17	54	6.1	25		15362
113	16768	<i>Micropterus salmoides</i>	7758987	0.07	/PHY//	80.4 g, 17.8 cm	LAB/F/U	0.92	54	6.2	25		15362
113	10661	<i>Morone americana</i>	3251238	11.8	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17		2001
113	11346	<i>Morone americana</i>	7440508	11.5	LC50/MOR//		LAB/S/I	1	55	8	28		2002
113	10664	<i>Morone saxatilis</i>	3251238	8.3	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17		2001
113	11356	<i>Morone saxatilis</i>	7440508	8.4	LC50/MOR//		LAB/S/I	1	55	8	28		2002
113	16773	<i>Morone saxatilis</i>	7758987	0.38	/PHY//	44.90-47.38 g, 15.5-16.0 cm,	LAB/S/S	0	35	7.8	17.5	cl-, cl, cr, cu, fe, mn, no3-n, no2-n, po4-ortho, so4	8522
113	16774	<i>Morone saxatilis</i>	7758987	0.38	/BCM//	44.90-47.38 g, 15.5-16.0 cm	LAB/S/S	0	35	7.8	17.5	cl-, cl, cr, cu, fe, mn, no3-n, no2-n, phosphate-ortho,	8522
113	14393	<i>Notemigonus crysoleucas</i>	7758987	0.27	LC50/MOR//	2.56 (0.6-4.9) g, 6.42 (3.2-7.6) mm	LAB/S/I	1	36	7.2	30		518
113	11361	<i>Nothobranchius guentheri</i>	7440508	0.033	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
113	11362	<i>Nothobranchius guentheri</i>	7440508	0.039	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
113	10503	<i>Oncorhynchus mykiss</i>	1344678	10	LT50/MOR//		LAB//S	0.08	46	6.6	16		5302
113	10508	<i>Oncorhynchus mykiss</i>	1344678	0.1	LT50/MOR//		LAB//S	0.96	46	6.6	16		5302
113	10509	<i>Oncorhynchus mykiss</i>	1344678	1	LT50/MOR//		LAB//S	0.23	46	6.6	16		5302
113	14457	<i>Oncorhynchus mykiss</i>	7758987	0.15	LC50/MOR//	4.42(1.1-11.8) g, 7.25(4.0-10.6) mm	LAB/S/I	1	36	7.2	18		518
113	16194	<i>Oncorhynchus mykiss</i>	7758987	0.06	/PHY//SIG	56 g	LAB/F/	1	10.1	8	20		17278
113	16232	<i>Oncorhynchus mykiss</i>	7758987	0.0722	NR-LETH/MOR/NEF/	15.5-20.0 cm	LAB/R/C	0.85	20	6.75	15.5		17563
113	16233	<i>Oncorhynchus mykiss</i>	7758987	0.0496	NR-ZERO/MOR/NEF/	15.5-20.0 cm	LAB/R/C	1	20	6.75	15.5		17563
113	16871	<i>Oncorhynchus mykiss</i>	7758987	0.0712	/HIS/INC/	15.5-20.0 cm	LAB/R/C	1	20	6.75	15.5		17563
113	16873	<i>Oncorhynchus mykiss</i>	7758987	0.0712	/GRO/CHG/	15.5-20.0 cm	LAB/R/C	0.85	20	6.75	15.5		17563

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
113	14604	<i>Oryzias latipes</i>	7758987	40	LC50/MOR//	adult, 2.37-2.82 cm, 0.24-0.47 g	LAB/S/I	1	32	7.8	25		8298
113	16895	<i>Oryzias latipes</i>	7758987	5.005	/MOR//	fry, 8 d	LAB/S/S	1	10.5	6.9	25		12151
113	10377	<i>Pimephales promelas</i>	142712	0.17	LC50/MOR//		LAB/S/I	1	44	7.4	22	conductivity 120-160 umhos/cm	5735
113	10381	<i>Pimephales promelas</i>	142712	0.166	LC50/MOR//	3.2-4.2 cm	LAB/S/S	1	44	7.55	22	conductivity, 120-160 uohm	875
113	10514	<i>Pimephales promelas</i>	1344678	10	LT50/MOR//		LAB//S	0.06	46	6.5	18		5302
113	10515	<i>Pimephales promelas</i>	1344678	10	LT50/MOR//		LAB//S	0.05	46	6.5	24		5302
113	10516	<i>Pimephales promelas</i>	1344678	1	LT50/MOR//		LAB//S	0.08	46	6.5	24		5302
113	10517	<i>Pimephales promelas</i>	1344678	1	LT50/MOR//		LAB//S	0.14	46	6.5	18		5302
113	10519	<i>Pimephales promelas</i>	1344678	0.1	LT50/MOR//		LAB//S	0.36	46	6.5	24		5302
113	15332	<i>Pimephales promelas</i>	7758987	0.04	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.25	25		2033
113	15333	<i>Pimephales promelas</i>	7758987	0.041	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.25	25		2033
113	15334	<i>Pimephales promelas</i>	7758987	0.034	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.25	25		2033
113	15335	<i>Pimephales promelas</i>	7758987	0.036	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7.25	25		2033
113	15454	<i>Poecilia mexicana</i>	7758987	0.5653	LC50/MOR//	6 cm	LAB/S/I	1	32	6.8	24	cl, fe, ca, mg and cu which was analyzed at a later date	8996
113	15458	<i>Poecilia mexicana</i>	7758987	0.7166	LT50/MOR//	6 cm	LAB/S/I	0.73	32	6.8	24	cl, fe, ca, mg and cu which was analyzed at a later date	8996
113	15459	<i>Poecilia mexicana</i>	7758987	0.7962	LT50/MOR//	6 cm	LAB/S/I	0.51	32	6.8	24	cl, fe, ca, mg and cu which was analyzed at a later date	8996

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
113	15460	<i>Poecilia mexicana</i>	7758987	1.1944	LT50/MOR//	6 cm	LAB/S/I	0.34	32	6.8	24	cl, fe, ca, mg and cu which was analyzed at a later date	8996
113	15504	<i>Poecilia reticulata</i>	7758987	0.13	LC50/MOR//	0.1-0.2 g, 1.9-2.5 cm, 6 mo	LAB/S/I	1	20	7.25	25		2033
113	15661	<i>Salmo salar</i>	7758987	0.053	EC50/AVO/INC/	9.7-15.3 cm	LAB/F/C	0.01	18	7.5	18.2		8102
113	15669	<i>Salmo salar</i>	7758987	0.049	LT50/MOR//	juvenile, 9.2 (7.2-10.9) cm	LAB/F/S	0.73	14	7.2	17		2069
113	15670	<i>Salmo salar</i>	7758987	0.22	LT50/MOR//	juvenile, 9.2 (7.2-10.9) cm	LAB/F/S	0.15	14	7.2	17		2069
113	11827	<i>Tilapia mossambica</i>	7440508	0.1	/PHY/INC/		LAB/F/B	1	60	7	22		5463
113	17040	<i>Tilapia mossambica</i>	7758987	0.12	/PHY//		LAB/F/I	1	60	7	22		5462
114	Vertebrates exposed to copper in very hard water at <15degC over 3-30 days exposure												
114	12251	<i>Oncorhynchus clarki</i>	7447394	0.169	LC50/MOR//	1 g	LAB/F/S	4	194	7.84	12.8	see paper for more water chemistry parameters	2063
114	12252	<i>Oncorhynchus clarki</i>	7447394	0.0853	LC50/MOR//	4.9 cm	LAB/F/S	4	194	7.84	12.8	see paper for more water chemistry parameters	2063
114	12253	<i>Oncorhynchus clarki</i>	7447394	0.0833	LC50/MOR//	2.1 g, 6.0 cm	LAB/F/S	4	194	7.84	12.8	see paper for more water chemistry parameters	2063
114	12254	<i>Oncorhynchus clarki</i>	7447394	0.103	LC50/MOR//	2.5 g, 6.1 cm	LAB/F/S	4	194	7.84	12.8	see paper for more water chemistry parameters	2063
114	12255	<i>Oncorhynchus clarki</i>	7447394	0.274	LC50/MOR//	2.6 g	LAB/F/S	4	194	7.84	12.8	see paper for more water chemistry parameters	2063
114	12256	<i>Oncorhynchus clarki</i>	7447394	0.128	LC50/MOR//	4.3 g	LAB/F/S	4	194	7.84	12.8	see paper for more water chemistry parameters	2063
114	12257	<i>Oncorhynchus clarki</i>	7447394	0.221	LC50/MOR//	9.4 g, 9.2 cm	LAB/F/S	4	194	7.84	12.8	see paper for more water chemistry parameters	2063
114	12258	<i>Oncorhynchus clarki</i>	7447394	0.165	LC50/MOR//	11.5 g, 9.9 cm	LAB/F/S	4	194	7.84	12.8	see paper for more water chemistry parameters	2063

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
114	12259	<i>Oncorhynchus clarki</i>	7447394	0.197	LC50/MOR//	18.7 g, 11.8 cm	LAB/F/S	4	194	7.84	12.8	see paper for more water chemistry parameters	2063
114	12260	<i>Oncorhynchus clarki</i>	7447394	0.514	LC50/MOR//	24.9 g, 13.5 cm	LAB/F/S	4	194	7.84	12.8	see paper for more water chemistry parameters	2063
114	12261	<i>Oncorhynchus clarki</i>	7447394	0.243	LC50/MOR//	25.6 g, 13.4 cm	LAB/F/S	4	194	7.84	12.8	see paper for more water chemistry parameters	2063
114	12262	<i>Oncorhynchus clarki</i>	7447394	0.367	LC50/MOR//	4.2 g, 7.4 cm	LAB/F/S	4	205	7.73	12.6	see paper for more water chemistry parameters	2063
114	12265	<i>Oncorhynchus clarki</i>	7447394	0.232	LC50/MOR//	4.4 g, 8.1 cm	LAB/F/S	4	204	7.61	13.9	see paper for more water chemistry parameters	2063
114	10848	<i>Oncorhynchus kisutch</i>	4180125	0.22	LC50/MOR//	5.6 g, 7.8 cm	LAB/F/I	7	280	7.7	11	dilution water chem rptd	15555
114	10849	<i>Oncorhynchus kisutch</i>	4180125	0.21	LC50/MOR//	5.6 g, 7.8 cm	LAB/F/I	7	280	7.7	11	dilution water chem rptd	15555
114	10860	<i>Oncorhynchus kisutch</i>	4180125	0.1	/PHY//	8 mo, 3-8 g	LAB/F/S	7	280	7.6	11.5	cu, zn	10089
114	14517	<i>Oncorhynchus mykiss</i>	7758987	0.27	LC50/MOR//		LAB/I	6	380	7.6	14	pre-exposed to cu, 13 ugg diet, 5 ugl water	12487
114	14518	<i>Oncorhynchus mykiss</i>	7758987	0.27	LC50/MOR//		LAB/I	6	380	7.6	14	pre-exposed to cu, 13 ugg diet, 5 ugl water	12487
114	14519	<i>Oncorhynchus mykiss</i>	7758987	0.27	LC50/MOR//		LAB/I	6	380	7.6	14	pre-exposed to cu, 13 ugg diet, 32 ugl water	12487
114	14520	<i>Oncorhynchus mykiss</i>	7758987	0.27	LC50/MOR//		LAB/I	6	380	7.6	14	pre-exposed to cu, 13 ugg diet, 32 ugl water	12487
114	14521	<i>Oncorhynchus mykiss</i>	7758987	0.27	LC50/MOR//		LAB/I	6	380	7.6	14	pre-exposed to cu, 13 ugg diet, 55 ugl water	12487
114	14522	<i>Oncorhynchus mykiss</i>	7758987	0.327	LC50/MOR//		LAB/I	6	380	7.6	14	pre-exposed to cu, 13 ugg diet, 55 ugl water	12487

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
114	14523	<i>Oncorhynchus mykiss</i>	7758987	0.523	LC50/MOR//		LAB//I	6	380	7.6	14	pre-exposed to cu, 13 ugg diet, 106 ugl water	12487
114	14524	<i>Oncorhynchus mykiss</i>	7758987	0.566	LC50/MOR//		LAB//I	6	380	7.6	14	pre-exposed to cu, 13 ugg diet, 106 ugl water	12487
114	14525	<i>Oncorhynchus mykiss</i>	7758987	0.333	LC50/MOR//		LAB//I	6	380	7.6	14	pre-exposed to cu, 684 ugg diet, 13 ugl water	12487
114	14526	<i>Oncorhynchus mykiss</i>	7758987	0.32	LC50/MOR//		LAB//I	6	380	7.6	14	pre-exposed to cu, 684 ugg diet, 13 ugl water	12487
114	14527	<i>Oncorhynchus mykiss</i>	7758987	0.319	LC50/MOR//		LAB//I	6	380	7.6	14	pre-exposed to cu, 684 ugg diet, 38 ugl water	12487
114	14528	<i>Oncorhynchus mykiss</i>	7758987	0.348	LC50/MOR//		LAB//I	6	380	7.6	14	pre-exposed to cu, 684 ugg diet, 38 ugl water	12487
114	14529	<i>Oncorhynchus mykiss</i>	7758987	0.27	LC50/MOR//		LAB//I	6	380	7.6	14	pre-exposed to cu, 684 ugg diet, 62 ugl water	12487
114	14530	<i>Oncorhynchus mykiss</i>	7758987	0.27	LC50/MOR//		LAB//I	6	380	7.6	14	pre-exposed to cu, 684 ugg diet, 62 ugl water	12487
114	14531	<i>Oncorhynchus mykiss</i>	7758987	0.569	LC50/MOR//		LAB//I	6	380	7.6	14	pre-exposed to cu, 684 ugg diet, 127 ugl water	12487
114	14532	<i>Oncorhynchus mykiss</i>	7758987	0.59	LC50/MOR//		LAB//I	6	380	7.6	14	pre-exposed to cu, 684 ugg diet, 127 ugl water	12487
114	14534	<i>Oncorhynchus mykiss</i>	7758987	1.15	LC50/MOR/INC/	eyed stage	LAB/R/C	4	250	8	9.5		17573
114	14536	<i>Oncorhynchus mykiss</i>	7758987	0.43	LC50/MOR/INC/	larvae	LAB/R/C	4	250	8	9.5		17573
114	14538	<i>Oncorhynchus mykiss</i>	7758987	0.93	LC50/MOR/INC/	adult, 16-18 cm	LAB/R/C	4	250	8	9.5		17573
114	16234	<i>Oncorhynchus mykiss</i>	7758987	0.25	NR-ZERO/MOR/NEF/	17.8 cm tl, 65.0 g	LAB/R/C	4	284	7.55	10		20402
114	11463	<i>Oncorhynchus tshawytscha</i>	7440508	0.1	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	4	280	7.4	12		2062

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
114	11466	<i>Oncorhynchus tshawytscha</i>	7440508	0.2	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	4	405	7.4	12		2062
114	11467	<i>Oncorhynchus tshawytscha</i>	7440508	0.15	LC50/MOR/INC/	3 mo, 1.35 g	LAB/F/	4	500	7.4	12		2062
114	14597	<i>Oncorhynchus tshawytscha</i>	7758987	0.058	LC50/MOR//	fry, 0.66 g	LAB/S/I	4	211	7.65	12		3526
114	14599	<i>Oncorhynchus tshawytscha</i>	7758987	0.06	LC50/MOR//	fry, 1.60 g	LAB/S/I	4	343	7.55	12		3526
114	14601	<i>Oncorhynchus tshawytscha</i>	7758987	0.054	LC50/MOR//	fry, 0.87 g	LAB/S/I	4	211	7.65	12		3526
114	17266	<i>Osteichthyes</i>	7758987	0.064	/AVO/CHG/	many species	FIELDN/O/C	7	244	7.85	2		2071
114	11497	<i>Pimephales promelas</i>	7440508	5.6	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	280	8	5.5	field collected water	8320
114	11498	<i>Pimephales promelas</i>	7440508	3.3	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	280	8	3	field collected water	8320
114	11499	<i>Pimephales promelas</i>	7440508	1.6	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	244	8	6.5	field collected water	8320
114	11501	<i>Pimephales promelas</i>	7440508	3.5	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	260	8	12.5	field collected water	8320
114	11502	<i>Pimephales promelas</i>	7440508	16	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	302	8	14.5	field collected water	8320
114	14907	<i>Pimephales promelas</i>	7758987	4.9	LC50/MOR//	20-71 mm	LAB/S/S	4	280	8	5.5	see paper	2071
114	14908	<i>Pimephales promelas</i>	7758987	2.6	LC50/MOR//	20-71 mm	LAB/S/S	7	280	8	5.5	see paper	2071
114	14909	<i>Pimephales promelas</i>	7758987	3.3	LC50/MOR//	20-71 mm	LAB/S/S	4	280	8	3	see paper	2071
114	14910	<i>Pimephales promelas</i>	7758987	1.7	LC50/MOR//	20-71 mm	LAB/S/S	7	280	8	3	see paper	2071
114	14917	<i>Pimephales promelas</i>	7758987	16	LC50/MOR//	20-71 mm	LAB/S/S	4	302	8	14.5	see paper	2071
114	14918	<i>Pimephales promelas</i>	7758987	13	LC50/MOR//	20-71 mm	LAB/S/S	7	302	8	14.5	see paper	2071
114	14941	<i>Pimephales promelas</i>	7758987	3.15	LC50/MOR//	20-71 mm	LAB/S/S	4	290	7.9	15	see paper	2071
114	14942	<i>Pimephales promelas</i>	7758987	2.21	LC50/MOR//	20-71 mm	LAB/S/S	7	290	7.9	15	see paper	2071
114	14943	<i>Pimephales promelas</i>	7758987	22.2	LC50/MOR//	20-71 mm	LAB/S/S	4	260	7.4	11	see paper	2071

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
114	14944	<i>Pimephales promelas</i>	7758987	22.2	LC50/MOR//	20-71 mm	LAB/S/S	7	260	7.4	11	see paper	2071
114	14945	<i>Pimephales promelas</i>	7758987	14.5	LC50/MOR//	20-71 mm	LAB/S/S	4	240	7.5	15	see paper	2071
114	14946	<i>Pimephales promelas</i>	7758987	14.5	LC50/MOR//	20-71 mm	LAB/S/S	7	240	7.5	15	see paper	2071
114	14949	<i>Pimephales promelas</i>	7758987	4.67	LC50/MOR//	20-71 mm	LAB/S/S	4	308	7.8	7	see paper	2071
114	14950	<i>Pimephales promelas</i>	7758987	3.19	LC50/MOR//	20-71 mm	LAB/S/S	7	308	7.8	7	see paper	2071
114	14955	<i>Pimephales promelas</i>	7758987	2.83	LC50/MOR//	20-71 mm	LAB/S/S	4	322	8	8	see paper	2071
114	14956	<i>Pimephales promelas</i>	7758987	1.41	LC50/MOR//	20-71 mm	LAB/S/S	7	322	8	8	see paper	2071
114	14957	<i>Pimephales promelas</i>	7758987	1.45	LC50/MOR//	20-71 mm	LAB/S/S	4	210	8	3	see paper	2071
114	14958	<i>Pimephales promelas</i>	7758987	0.89	LC50/MOR//	20-71 mm	LAB/S/S	7	210	8	3	see paper	2071
114	14959	<i>Pimephales promelas</i>	7758987	1.58	LC50/MOR//	20-71 mm	LAB/S/S	4	260	7.9	4.5	see paper	2071
114	14960	<i>Pimephales promelas</i>	7758987	0.82	LC50/MOR//	20-71 mm	LAB/S/S	7	260	7.9	4.5	see paper	2071
114	14961	<i>Pimephales promelas</i>	7758987	1	LC50/MOR//	20-71 mm	LAB/S/S	4	252	7.8	6.5	see paper	2071
114	14962	<i>Pimephales promelas</i>	7758987	0.75	LC50/MOR//	20-71 mm	LAB/S/S	7	252	7.8	6.5	see paper	2071
114	14963	<i>Pimephales promelas</i>	7758987	5.33	LC50/MOR//	20-71 mm	LAB/S/S	4	312	7.6	14.5	see paper	2071
114	14964	<i>Pimephales promelas</i>	7758987	5	LC50/MOR//	20-71 mm	LAB/S/S	7	312	7.6	14.5	see paper	2071
115	Vertebrates exposed to copper in very hard water at >15degC over 3-30 days exposure												
115	12776	<i>Agosia chrysogaster</i>	7758987	0.86	LC50/MOR//	juvenile, 4.3 cm, 0.64 g	LAB/R/S	4	221	7.7	19.3	ca, mg, na, fe, cu, mn, zn, so4, suspended solids, conduc-	2000
115	12798	<i>Ameiurus nebulosus</i>	7758987	0.52	LC50/MOR//	39 mm	LAB/F/S	4	200.5	8	24		2071
115	12801	<i>Ameiurus nebulosus</i>	7758987	5.2	LC50/MOR//	52 mm, 1.4 g	LAB/F/S	4	314	8	24		2071
115	12804	<i>Ameiurus nebulosus</i>	7758987	12	LC50/MOR//	53 mm, 1.5 g	LAB/F/S	4	303	8	24		2071
115	12806	<i>Ameiurus nebulosus</i>	7758987	0.18	LC50/MOR//	7 mo	LAB/F/I	4	202	7.6	23		2008
115	12807	<i>Ameiurus nebulosus</i>	7758987	0.186	LC50/MOR//	2 yr	LAB/F/I	4	202	7.6	23		2008

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
115	15910	<i>Ameiurus nebulosus</i>	7758987	0.027	/BCM//SIG	2 yr	LAB/F/I	30	202	7.6	20	acidity 12.0 mgl	9054
115	13057	<i>Campostoma anomalum</i>	7758987	0.31	LC50/MOR//	60 mm	LAB/F/S	4	200.5	8	24		2071
115	13070	<i>Carassius auratus</i>	7758987	5.2	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	7	197	7.5	22		2016
115	13071	<i>Carassius auratus</i>	7758987	5.2	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
115	13229	<i>Channa marulius</i>	7758987	0.9	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/R/S	4	270	7.35	26		10721
115	13230	<i>Channa marulius</i>	7758987	0.66	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/R/S	10	270	7.35	26		10721
115	10374	<i>Cyprinus carpio</i>	142712	0.14	LC50/MOR/INC/	fertilized eggs	LAB/S/C	4	274	7.725	24		45108
115	10375	<i>Cyprinus carpio</i>	142712	0.004	LC50/MOR/INC/	larvae, 7 d, 1.0 cm	LAB/S/C	4	274	7.725	24		45108
115	10376	<i>Cyprinus carpio</i>	142712	0.063	LC50/MOR/INC/	fry, 30 d, 2.5 cm	LAB/S/C	4	274	7.725	24		45108
115	13438	<i>Cyprinus carpio</i>	7758987	0.64	LC50/MOR/INC/	30 d, 2.67 cm	LAB/S/	4	212.5	7.55	20.5		19273
115	13440	<i>Cyprinus carpio</i>	7758987	5.45	LC50/MOR/INC/	6 mo, 12.40 cm, 57.8 g	LAB/S/	4	212.5	7.55	20.5		19273
115	16026	<i>Cyprinus carpio</i>	7758987	2.125	/ENZ/CHG/	6 mo, 12.40 cm, 57.8 g	LAB/S/	14	212.5	7.55	20.5		19273
115	16527	<i>Cyprinus carpio</i>	7758987	2.125	/HIS/CHG/	6 mo, 12.40 cm, 57.8 g	LAB/S/	14	212.5	7.55	20.5		19273
115	11130	<i>Danio rerio</i>	7440508	0.15	LOEC/MOR/INC/SIG	embryo, 4 cell stage, 1 h after	LAB//C	6	308.8	7.6	26.5		19687
115	11132	<i>Danio rerio</i>	7440508	0.15	LOEC/MOR/INC/SIG	four-cell stage,30 mi fertilization	LAB//C	6	308.8	7.3	26.5		18510
115	11134	<i>Danio rerio</i>	7440508	0.1	LOEC/MOR/INC/NOSIG	blastula, 2h post fertilization	LAB//C	6	308.8	7.3	26.5		18510
115	11136	<i>Danio rerio</i>	7440508	0.1	NOEC/MOR/INC/NOSIG	embryo, 4 cell stage, 1 h after	LAB//C	6	308.8	7.6	26.5		19687
115	11138	<i>Danio rerio</i>	7440508	0.1	NOEC/MOR/INC/NOSIG	four-cell stage,30 mi fertilization	LAB//C	6	308.8	7.3	26.5		18510
115	11140	<i>Danio rerio</i>	7440508	0.05	NOEC/MOR/INC/NOSIG	blastula, 2h post fertilization	LAB//C	6	308.8	7.3	26.5		18510
115	13835	<i>Etheostoma caeruleum</i>	7758987	0.34	LC50/MOR//	41 mm	LAB/F/S	4	200.5	8	24		2071
115	13838	<i>Etheostoma caeruleum</i>	7758987	4.8	LC50/MOR//	46 mm, 1.2 g	LAB/F/S	4	314	8	24		2071
115	13841	<i>Etheostoma caeruleum</i>	7758987	5.3	LC50/MOR//	46 mm, 1.0 g	LAB/F/S	4	303	8	24		2071
115	13864	<i>Etheostoma spectabile</i>	7758987	0.71	LC50/MOR//	44 mm, 0.9 g	LAB/F/S	4	200.5	8	24		2071
115	13867	<i>Etheostoma spectabile</i>	7758987	7.1	LC50/MOR//	52 mm, 1.4 g	LAB/F/S	4	314	8	24		2071

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
115	13870	<i>Etheostoma spectabile</i>	7758987	9.4	LC50/MOR//	44 mm, 0.8 g	LAB/F/S	4	303	8	24		2071
115	13933	<i>Gastrophryne carolinensis</i>	7758987	0.04	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	7	197	7.5	22		2016
115	13934	<i>Gastrophryne carolinensis</i>	7758987	0.04	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
115	14118	<i>Lepomis macrochirus</i>	7758987	8.3	LC50/MOR//	103 mm, 18.6 g	LAB/F/S	4	200.5	8	24		2071
115	14121	<i>Lepomis macrochirus</i>	7758987	10	LC50/MOR//	101 mm, 19.2 g	LAB/F/S	4	200.5	8	24		2071
115	14160	<i>Lepomis macrochirus</i>	7758987	10.2	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	360	7.25	25		2033
115	14181	<i>Luxilus chrysocephalus</i>	7758987	0.76	LC50/MOR//	55 mm	LAB/F/S	4	200.5	8	24		2071
115	14184	<i>Luxilus chrysocephalus</i>	7758987	1.6	LC50/MOR//	55 mm, 1.7 g	LAB/F/S	4	200.5	8	24		2071
115	14187	<i>Luxilus chrysocephalus</i>	7758987	8.4	LC50/MOR//	47 mm	LAB/F/S	4	314	8	24		2071
115	14190	<i>Luxilus chrysocephalus</i>	7758987	16	LC50/MOR//	50 mm, 0.9 g	LAB/F/S	4	303	8	24		2071
115	14383	<i>Myxus bleekeri</i>	7758987	0.829	LC50/MOR//	3.5 g, 8.5 cm	LAB/R/S	4	240	7.5	25	conductivity	13150
115	14384	<i>Myxus bleekeri</i>	7758987	0.776	LC50/MOR//	3.5 g, 8.5 cm	LAB/R/S	10	240	7.5	25	conductivity	13150
115	14447	<i>Oncorhynchus mykiss</i>	7758987	0.89	LC50/MOR//	12-16 cm	LAB/F/I	4	300	7.35	15.3		978
115	14448	<i>Oncorhynchus mykiss</i>	7758987	0.87	LC50/MOR//	12-16 cm	LAB/F/S	14	300	7.35	15.3		978
115	14449	<i>Oncorhynchus mykiss</i>	7758987	0.81	LC50/MOR//	12-16 cm	LAB/F/S	14	300	7.35	15.3		978
115	12706	<i>Perca fluviatilis</i>	7447394	0.022	/GRO//		LAB/F/S	30	194	7.8	17.5	conductivity 466 uscm	10808
115	12707	<i>Perca fluviatilis</i>	7447394	0.039	/GRO//		LAB/F/S	18	194	7.8	17.5	conductivity 466 uscm	10808
115	14706	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	84 mm, 6.7 g	LAB/F/S	4	200.5	8	24		2071
115	14709	<i>Pimephales notatus</i>	7758987	6.8	LC50/MOR//	39 mm, 0.43 g	LAB/F/S	4	314	8	24		2071
115	14712	<i>Pimephales notatus</i>	7758987	13	LC50/MOR//	40 mm, 0.6 g	LAB/F/S	4	303	8	24		2071
115	14839	<i>Pimephales notatus</i>	7758987	0.29	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	4	200.5	8	24		2071
115	14842	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	4	200	8	24		2071

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
115	14846	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	4	200	8	24		2071
115	14849	<i>Pimephales notatus</i>	7758987	0.28	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	4	200.5	8	24		2071
115	10678	<i>Pimephales promelas</i>	3251238	0.015	LC50/MOR//	<=24 h	LAB//I	4	290	6.27	25		7289
115	10679	<i>Pimephales promelas</i>	3251238	0.044	LC50/MOR//	<=24 h	LAB//I	4	290	7.135	25		7289
115	11503	<i>Pimephales promelas</i>	7440508	9.7	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	224	8	18	field collected water	8320
115	11504	<i>Pimephales promelas</i>	7440508	5	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	228	7.9	17.5	field collected water	8320
115	11506	<i>Pimephales promelas</i>	7440508	11	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	310	7.3	18.5	field collected water	8320
115	11507	<i>Pimephales promelas</i>	7440508	16	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	294	7	23.5	field collected water	8320
115	11508	<i>Pimephales promelas</i>	7440508	16	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	308	7.2	26	field collected water	8320
115	11509	<i>Pimephales promelas</i>	7440508	21	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	336	7.3	23.5	field collected water	8320
115	11510	<i>Pimephales promelas</i>	7440508	12	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	280	7.5	21.5	field collected water	8320
115	11511	<i>Pimephales promelas</i>	7440508	11	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	280	7.5	25.5	field collected water	8320
115	11512	<i>Pimephales promelas</i>	7440508	20	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	266	7.4	24.5	field collected water	8320
115	11515	<i>Pimephales promelas</i>	7440508	21	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	310	7.9	22.5	field collected water	8320
115	11516	<i>Pimephales promelas</i>	7440508	16	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	298	7.5	22.5	field collected water	8320
115	11517	<i>Pimephales promelas</i>	7440508	20	LC50/MOR/INC/	20-69 mm	LAB/S/C	4	324	7.5	21	field collected water	8320
115	14888	<i>Pimephales promelas</i>	7758987	0.42	LC50/MOR//	56 mm	LAB/F/S	4	200.5	8	24		2071
115	14891	<i>Pimephales promelas</i>	7758987	0.42	LC50/MOR//	47 mm	LAB/F/S	4	200.5	8	24		2071
115	14894	<i>Pimephales promelas</i>	7758987	11	LC50/MOR//	44 mm	LAB/F/S	4	314	8	24		2071
115	14897	<i>Pimephales promelas</i>	7758987	15	LC50/MOR//	42 mm, 0.6 g	LAB/F/S	4	303	8	24		2071

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
115	14919	<i>Pimephales promelas</i>	7758987	8.3	LC50/MOR//	20-71 mm	LAB/S/S	4	224	8	18	see paper	2071
115	14920	<i>Pimephales promelas</i>	7758987	0.9	LC50/MOR//	20-71 mm	LAB/S/S	7	224	8	18	see paper	2071
115	14921	<i>Pimephales promelas</i>	7758987	5	LC50/MOR//	20-71 mm	LAB/S/S	4	228	7.9	17.5	see paper	2071
115	14922	<i>Pimephales promelas</i>	7758987	0.8	LC50/MOR//	20-71 mm	LAB/S/S	7	228	7.9	17.5	see paper	2071
115	14925	<i>Pimephales promelas</i>	7758987	9	LC50/MOR//	20-71 mm	LAB/S/S	4	310	7.3	18.5	see paper	2071
115	14926	<i>Pimephales promelas</i>	7758987	9	LC50/MOR//	20-71 mm	LAB/S/S	7	310	7.3	18.5	see paper	2071
115	14927	<i>Pimephales promelas</i>	7758987	8.7	LC50/MOR//	20-71 mm	LAB/S/S	4	308	7.2	26	see paper	2071
115	14928	<i>Pimephales promelas</i>	7758987	3.9	LC50/MOR//	20-71 mm	LAB/S/S	7	308	7.2	26	see paper	2071
115	14929	<i>Pimephales promelas</i>	7758987	21	LC50/MOR//	20-71 mm	LAB/S/S	4	336	7.3	23.5	see paper	2071
115	14930	<i>Pimephales promelas</i>	7758987	12	LC50/MOR//	20-71 mm	LAB/S/S	7	336	7.3	23.5	see paper	2071
115	14931	<i>Pimephales promelas</i>	7758987	12	LC50/MOR//	20-71 mm	LAB/S/S	4	280	7.5	21.5	see paper	2071
115	14932	<i>Pimephales promelas</i>	7758987	11	LC50/MOR//	20-71 mm	LAB/S/S	7	280	7.5	21.5	see paper	2071
115	14933	<i>Pimephales promelas</i>	7758987	10	LC50/MOR//	20-71 mm	LAB/S/S	4	280	7.5	25.5	see paper	2071
115	14934	<i>Pimephales promelas</i>	7758987	9.5	LC50/MOR//	20-71 mm	LAB/S/S	7	280	7.5	25.5	see paper	2071
115	14935	<i>Pimephales promelas</i>	7758987	20	LC50/MOR//	20-71 mm	LAB/S/S	4	266	7.4	24.5	see paper	2071
115	14936	<i>Pimephales promelas</i>	7758987	16.5	LC50/MOR//	20-71 mm	LAB/S/S	7	266	7.4	24.5	see paper	2071
115	14937	<i>Pimephales promelas</i>	7758987	19	LC50/MOR//	20-71 mm	LAB/S/S	4	310	7.9	22.5	see paper	2071
115	14938	<i>Pimephales promelas</i>	7758987	17.4	LC50/MOR//	20-71 mm	LAB/S/S	7	310	7.9	22.5	see paper	2071
115	14939	<i>Pimephales promelas</i>	7758987	18	LC50/MOR//	20-71 mm	LAB/S/S	4	324	7.5	21	see paper	2071
115	14940	<i>Pimephales promelas</i>	7758987	16.3	LC50/MOR//	20-71 mm	LAB/S/S	7	324	7.5	21	see paper	2071

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
115	14967	<i>Pimephales promelas</i>	7758987	4.16	LC50/MOR//	20-71 mm	LAB/S/S	4	276	8	19.5	see paper	2071
115	14968	<i>Pimephales promelas</i>	7758987	3.63	LC50/MOR//	20-71 mm	LAB/S/S	7	276	8	19.5	see paper	2071
115	14969	<i>Pimephales promelas</i>	7758987	8	LC50/MOR//	20-71 mm	LAB/S/S	4	284	7.7	24	see paper	2071
115	14970	<i>Pimephales promelas</i>	7758987	7.22	LC50/MOR//	20-71 mm	LAB/S/S	7	284	7.7	24	see paper	2071
115	14971	<i>Pimephales promelas</i>	7758987	10.55	LC50/MOR//	20-71 mm	LAB/S/S	4	252	7.6	23	see paper	2071
115	14972	<i>Pimephales promelas</i>	7758987	10.55	LC50/MOR//	20-71 mm	LAB/S/S	7	252	7.6	23	see paper	2071
115	14973	<i>Pimephales promelas</i>	7758987	22.2	LC50/MOR//	20-71 mm	LAB/S/S	4	298	7.4	25	see paper	2071
115	14974	<i>Pimephales promelas</i>	7758987	22.2	LC50/MOR//	20-71 mm	LAB/S/S	7	298	7.4	25	see paper	2071
115	14975	<i>Pimephales promelas</i>	7758987	21.8	LC50/MOR//	20-71 mm	LAB/S/S	4	282	7.5	24.5	see paper	2071
115	14976	<i>Pimephales promelas</i>	7758987	21.8	LC50/MOR//	20-71 mm	LAB/S/S	7	282	7.5	24.5	see paper	2071
115	14977	<i>Pimephales promelas</i>	7758987	23.6	LC50/MOR//	20-71 mm	LAB/S/S	4	284	7.6	21	see paper	2071
115	14978	<i>Pimephales promelas</i>	7758987	22.2	LC50/MOR//	20-71 mm	LAB/S/S	7	284	7.6	21	see paper	2071
115	15010	<i>Pimephales promelas</i>	7758987	0.21	LC50/MOR//	adult, 40 mm	LAB/S/I	4	250	7.5	21.5	conductivity 500-553 umhoscm	10551
115	15012	<i>Pimephales promelas</i>	7758987	0.39	LC50/MOR//	adult, 40 mm	LAB/S/I	4	250	7.5	21.5	conductivity 500-553 umhoscm	10551
115	15236	<i>Pimephales promelas</i>	7758987	0.76	LC50/MOR/INC/	40 mm	LAB/S/C	4	200	7.4	22	newton hatchery fish	10237
115	15238	<i>Pimephales promelas</i>	7758987	0.41	LC50/MOR/INC/	40 mm	LAB/S/C	4	200	7.4	22	flyash pond fish	10237
115	15346	<i>Pimephales promelas</i>	7758987	1.76	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	360	7.25	25		2033
115	15349	<i>Pimephales promelas</i>	7758987	1.14	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	360	7.25	25		2033
115	15464	<i>Poecilia reticulata</i>	7758987	1.23	LC50/MOR//	0.15 g, 1.5 cm	LAB/S/I	4	230	7.3	16.5	specific conductance = 950 umhocm	6346

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
115	15473	<i>Poecilia reticulata</i>	7758987	1.23	LC50/MOR//		LAB/R/S	4	230	7.3	16.5	conductivity 950 uscm	15426
115	15478	<i>Poecilia reticulata</i>	7758987	4.3	LC50/MOR//		LAB/R/S	4	230	7.3	16.5	conductivity 950 uscm	15426
115	15483	<i>Poecilia reticulata</i>	7758987	1.94	LC50/MOR//		LAB/R/S	4	230	7.3	16.5	conductivity 950 uscm	15426
115	15488	<i>Poecilia reticulata</i>	7758987	3.44	LC50/MOR//		LAB/R/S	4	230	7.3	16.5	conductivity 950 uscm	15426
115	15493	<i>Poecilia reticulata</i>	7758987	2.29	LC50/MOR//		LAB/R/S	4	230	7.3	16.5	conductivity 950 uscm	15426
115	15502	<i>Poecilia reticulata</i>	7758987	0.764	LC50/MOR/INC/	0.186 (0.150-0.240) g,	LAB/S/C	4	240	7.5	26.5		3527
115	15631	<i>Rana tigrina</i>	7758987	0.389	LC50/MOR/INC/	larva, 0.09 (0.07-0.10) g,	LAB/S/C	4	240	7.5	26.5		3527
115	15650	<i>Rasbora daniconius neilgeriens</i>	7758987	0.203	LC50/MOR/INC/	4.0-6.5 cm, 300-500 mg	LAB/S/C	4	240	7.5	25		714
115	15654	<i>Rasbora daniconius neilgeriens</i>	7758987	0.203	LC50/MOR/INC/	3.80 (3.0-5.0)g, 5.2 (4.0-6.5) cm	LAB/S/C	4	240	7.5	26.5		3527
115	15657	<i>Rhinichthys atratulus</i>	7758987	0.33	LC50/MOR//	47 mm, 1.1 g	LAB/F/S	4	200.5	8	24		2071
115	15686	<i>Semotilus atromaculatus</i>	7758987	0.29	LC50/MOR//	64 mm, 4.0 g	LAB/F/S	4	200.5	8	24		2071
116	Vertebrates exposed to copper in very hard water at >15degC over 1-3 days exposure												
116	12797	<i>Ameiurus nebulosus</i>	7758987	0.65	LC50/MOR//	39 mm	LAB/F/S	2	200.5	8	24		2071
116	12800	<i>Ameiurus nebulosus</i>	7758987	5.8	LC50/MOR//	52 mm, 1.4 g	LAB/F/S	2	314	8	24		2071
116	12803	<i>Ameiurus nebulosus</i>	7758987	15	LC50/MOR//	53 mm, 1.5 g	LAB/F/S	2	303	8	24		2071
116	13056	<i>Campostoma anomalum</i>	7758987	0.36	LC50/MOR//	60 mm	LAB/F/S	2	200.5	8	24		2071
116	13069	<i>Carassius auratus</i>	7758987	5.2	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	3	197	7.5	22		2016
116	13228	<i>Channa marulius</i>	7758987	1.062	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/R/S	3	270	7.35	26		10721
116	16019	<i>Clarias gariepinus</i>	7758987	1.325	/MOR/CHG/NOSIG	2 to 4 cell stage, late blastula	LAB/R/C	3	200	7.7	27		20030
116	16020	<i>Clarias gariepinus</i>	7758987	1.325	/DVP/CHG/MULT	2 to 4 cell stage, late blastula	LAB/R/C	3	200	7.7	27		20030
116	16021	<i>Clarias gariepinus</i>	7758987	1.325	/GRO/CHG/MULT	2 to 4 cell stage, late blastula	LAB/R/C	3	200	7.7	27		20030
116	10386	<i>Cyprinus carpio</i>	142712	0.6251	/MOR/DEC/	fertilized eggs	LAB/S/C	2	274	7.725	24		45108
116	10388	<i>Cyprinus carpio</i>	142712	0.6251	/DVP/INC/	fertilized eggs	LAB/S/C	2	274	7.725	24		45108
116	13437	<i>Cyprinus carpio</i>	7758987	1.1	LC50/MOR/INC/	30 d, 2.67 cm	LAB/S/	2	212.5	7.55	20.5		19273

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
116	13439	<i>Cyprinus carpio</i>	7758987	8	LC50/MOR/INC/	6 mo, 12.40 cm, 57.8 g	LAB/S/	2	212.5	7.55	20.5		19273
116	13834	<i>Etheostoma caeruleum</i>	7758987	0.34	LC50/MOR//	41 mm	LAB/F/S	2	200.5	8	24		2071
116	13837	<i>Etheostoma caeruleum</i>	7758987	5.9	LC50/MOR//	46 mm, 1.2 g	LAB/F/S	2	314	8	24		2071
116	13840	<i>Etheostoma caeruleum</i>	7758987	12	LC50/MOR//	46 mm, 1.0 g	LAB/F/S	2	303	8	24		2071
116	13863	<i>Etheostoma spectabile</i>	7758987	0.93	LC50/MOR//	44 mm, 0.9 g	LAB/F/S	2	200.5	8	24		2071
116	13866	<i>Etheostoma spectabile</i>	7758987	9.9	LC50/MOR//	52 mm, 1.4 g	LAB/F/S	2	314	8	24		2071
116	13869	<i>Etheostoma spectabile</i>	7758987	17	LC50/MOR//	44 mm, 0.8 g	LAB/F/S	2	303	8	24		2071
116	13932	<i>Gastrophryne carolinensis</i>	7758987	0.05	LC50/MOR/INC/	eggs, 4 d post hatch	LAB/R/C	3	197	7.5	22		2016
116	13960	<i>Heteropneustes fossilis</i>	7758987	0.1	LT50/MOR/INC/	5-8 cm, 10-12 g wwgt	LAB/S/C	1.5	220	7.8	23.5	1e-2 bacterial infection dose level	20024
116	13961	<i>Heteropneustes fossilis</i>	7758987	0.32	LT50/MOR/INC/	5-8 cm, 10-12 g wwgt	LAB/S/C	1.21	220	7.8	23.5	1e-2 bacterial infection dose level	20024
116	13962	<i>Heteropneustes fossilis</i>	7758987	0.1	LT50/MOR/INC/	5-8 cm, 10-12 g wwgt	LAB/S/C	1.92	220	7.8	23.5	1e-3 bacterial infection dose level	20024
116	13963	<i>Heteropneustes fossilis</i>	7758987	0.32	LT50/MOR/INC/	5-8 cm, 10-12 g wwgt	LAB/S/C	1.25	220	7.8	23.5	1e-3 bacterial infection dose level	20024
116	13964	<i>Heteropneustes fossilis</i>	7758987	0.1	LT50/MOR/INC/	5-8 cm, 10-12 g wwgt	LAB/S/C	2	220	7.8	23.5	1e-4 bacterial infection dose level	20024
116	13965	<i>Heteropneustes fossilis</i>	7758987	0.32	LT50/MOR/INC/	5-8 cm, 10-12 g wwgt	LAB/S/C	1.75	220	7.8	23.5	1e-4 bacterial infection dose level	20024
116	16689	<i>Ictalurus punctatus</i>	7758987	1	/BCM//	fingerling, 130-140 mm	LAB/S/I	1.92	221	6.75	21.5		9382
116	14108	<i>Lepomis macrochirus</i>	7758987	1.034	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	2	209.35	7.75	24	see paper	2135
116	14109	<i>Lepomis macrochirus</i>	7758987	1.464	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	2	366.8	7.85	24	see paper	2135
116	14111	<i>Lepomis macrochirus</i>	7758987	0.891	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	3	209.35	7.65	24	see paper	2135
116	14112	<i>Lepomis macrochirus</i>	7758987	1.361	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	3	366.8	7.85	24	see paper	2135
116	14117	<i>Lepomis macrochirus</i>	7758987	13	LC50/MOR//	103 mm, 18.6 g	LAB/F/S	2	200.5	8	24		2071

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
116	14120	<i>Lepomis macrochirus</i>	7758987	12	LC50/MOR//	101 mm, 19.2 g	LAB/F/S	2	200.5	8	24		2071
116	14159	<i>Lepomis macrochirus</i>	7758987	10.2	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	360	7.25	25		2033
116	14180	<i>Luxilus chrysocephalus</i>	7758987	0.79	LC50/MOR//	55 mm	LAB/F/S	2	200.5	8	24		2071
116	14183	<i>Luxilus chrysocephalus</i>	7758987	1.6	LC50/MOR//	55 mm, 1.7 g	LAB/F/S	2	200.5	8	24		2071
116	14186	<i>Luxilus chrysocephalus</i>	7758987	8.4	LC50/MOR//	47 mm	LAB/F/S	2	314	8	24		2071
116	14189	<i>Luxilus chrysocephalus</i>	7758987	16	LC50/MOR//	50 mm, 0.9 g	LAB/F/S	2	303	8	24		2071
116	14381	<i>Mystus bleekeri</i>	7758987	1.69	LC50/MOR//	3.5 g, 8.5 cm	LAB/R/S	2	240	7.5	25	conductivity	13150
116	14382	<i>Mystus bleekeri</i>	7758987	1.084	LC50/MOR//	3.5 g, 8.5 cm	LAB/R/S	3	240	7.5	25	conductivity	13150
116	16182	<i>Notemigonus crysoleucas</i>	7758987	2	NR-LETH/MOR//	adult, 110-130 mm	LAB/S/I	1.92	221	6.75	21.5		9382
116	16783	<i>Notemigonus crysoleucas</i>	7758987	1	/BCM//	adult, 110-130 mm	LAB/S/I	1.92	221	6.75	21.5		9382
116	14450	<i>Oncorhynchus mykiss</i>	7758987	0.19	LC50/MOR//	1 yr, 138 mm, 28.5 g	LAB/R/I	2	240	7.4	16.85		6202
116	14487	<i>Oncorhynchus mykiss</i>	7758987	0.27	LC50/MOR//	yearling, 12.5 cm	LAB/R/S	2	320	7.8	17		10193
116	14705	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	84 mm, 6.7 g	LAB/F/S	2	200.5	8	24		2071
116	14708	<i>Pimephales notatus</i>	7758987	10	LC50/MOR//	39 mm, 0.43 g	LAB/F/S	2	314	8	24		2071
116	14711	<i>Pimephales notatus</i>	7758987	15	LC50/MOR//	40 mm, 0.6 g	LAB/F/S	2	303	8	24		2071
116	14722	<i>Pimephales notatus</i>	7758987	19	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	305	7.9	24		2071
116	14726	<i>Pimephales notatus</i>	7758987	5.5	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	274	8	24	ca, mg	2071
116	14728	<i>Pimephales notatus</i>	7758987	5.5	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	302	7.9	24	ca, mg	2071
116	14730	<i>Pimephales notatus</i>	7758987	19	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	312	7.9	24	ca, mg	2071
116	14732	<i>Pimephales notatus</i>	7758987	12.1	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	322	8	24		2071
116	14734	<i>Pimephales notatus</i>	7758987	7.5	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	236	7.8	24	ca, mg	2071
116	14736	<i>Pimephales notatus</i>	7758987	6.5	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	258	8	24	ca, mg	2071

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
116	14742	<i>Pimephales notatus</i>	7758987	8.6	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	276	8	24	ca, mg	2071
116	14746	<i>Pimephales notatus</i>	7758987	2.3	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	222	7.9	24	ca, mg	2071
116	14748	<i>Pimephales notatus</i>	7758987	4.5	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	246	7.8	24	ca, mg	2071
116	14750	<i>Pimephales notatus</i>	7758987	3.3	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	316	7.8	24	ca, mg	2071
116	14752	<i>Pimephales notatus</i>	7758987	3.2	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	324	7.9	24	ca, mg	2071
116	14760	<i>Pimephales notatus</i>	7758987	11	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	320	8	24	ca, mg, tp, k, na, cl, c, no3	2071
116	14762	<i>Pimephales notatus</i>	7758987	5.7	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	318	8	24	ca, mg, tp, k, na, cl, c, no3	2071
116	14764	<i>Pimephales notatus</i>	7758987	10	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	318	8	24	ca, mg, tp, k, na, cl, c, no3	2071
116	14765	<i>Pimephales notatus</i>	7758987	8	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	314	8	24	ca, mg, tp, k, na, cl, c, no3	2071
116	14768	<i>Pimephales notatus</i>	7758987	11	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	318	7.9	24	ca, mg, tp, k, na, cl, c, no3	2071
116	14780	<i>Pimephales notatus</i>	7758987	8	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	296	8	24	ca, mg, tp, k, na, cl, c, no3	2071
116	14790	<i>Pimephales notatus</i>	7758987	2.5	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	308	7.8	24	ca, mg, tp, k, na, cl, c, no3	2071
116	14802	<i>Pimephales notatus</i>	7758987	3.4	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	284	8	24		2071
116	14804	<i>Pimephales notatus</i>	7758987	9.2	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	276	8	24		2071
116	14806	<i>Pimephales notatus</i>	7758987	9.2	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	330	7.9	24		2071
116	14808	<i>Pimephales notatus</i>	7758987	8	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	370	8	24		2071
116	14810	<i>Pimephales notatus</i>	7758987	0.29	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	208	7.7	24		2071
116	14816	<i>Pimephales notatus</i>	7758987	0.18	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	233	7.6	24	ca, mg	2071
116	14818	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	282	7.6	24		2071
116	14820	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	337	7.7	24	ca, mg	2071

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
116	14822	<i>Pimephales notatus</i>	7758987	5.6	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	220	7.9	24		2071
116	14826	<i>Pimephales notatus</i>	7758987	6.3	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	322	7.9	24		2071
116	14838	<i>Pimephales notatus</i>	7758987	0.29	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	200.5	8	24		2071
116	14841	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	200.5	8	24		2071
116	14845	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	200	8	24		2071
116	14848	<i>Pimephales notatus</i>	7758987	0.28	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	200.5	8	24		2071
116	14887	<i>Pimephales promelas</i>	7758987	0.58	LC50/MOR//	56 mm	LAB/F/S	2	200.5	8	24		2071
116	14890	<i>Pimephales promelas</i>	7758987	0.47	LC50/MOR//	47 mm	LAB/F/S	2	200.5	8	24		2071
116	14893	<i>Pimephales promelas</i>	7758987	11	LC50/MOR//	44 mm	LAB/F/S	2	314	8	24		2071
116	14896	<i>Pimephales promelas</i>	7758987	16	LC50/MOR//	42 mm, 0.6 g	LAB/F/S	2	303	8	24		2071
116	14979	<i>Pimephales promelas</i>	7758987	19	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	316	7.8	24	ca, mg	2071
116	14981	<i>Pimephales promelas</i>	7758987	9.6	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	255	7.8	24	ca, mg	2071
116	14983	<i>Pimephales promelas</i>	7758987	9.1	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	205	7.8	24	ca, mg	2071
116	14993	<i>Pimephales promelas</i>	7758987	11	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	292	7.9	24	ca, mg	2071
116	14995	<i>Pimephales promelas</i>	7758987	6.7	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	300	7.9	24		2071
116	14997	<i>Pimephales promelas</i>	7758987	3.6	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	302	8	24	ca, mg	2071
116	14999	<i>Pimephales promelas</i>	7758987	2.9	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	296	7.9	24	ca, mg	2071
116	15003	<i>Pimephales promelas</i>	7758987	0.94	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	234	7.9	24		2071
116	15005	<i>Pimephales promelas</i>	7758987	1.6	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	2	302	7.9	24		2071
116	15345	<i>Pimephales promelas</i>	7758987	1.86	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	360	7.25	25		2033

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
116	15348	<i>Pimephales promelas</i>	7758987	1.14	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	360	7.25	25	2033	
116	15463	<i>Poecilia reticulata</i>	7758987	3.38	LC50/MOR//	0.15 g, 1.5 cm	LAB/S/I	2	230	7.3	16.5	specific conductance = 950 umhocm	6346
116	15471	<i>Poecilia reticulata</i>	7758987	3.38	LC50/MOR//		LAB/R/S	2	230	7.3	16.5	conductivity 950 uscm	15426
116	15472	<i>Poecilia reticulata</i>	7758987	1.81	LC50/MOR//		LAB/R/S	3	230	7.3	16.5	conductivity 950 uscm	15426
116	15476	<i>Poecilia reticulata</i>	7758987	4.7	LC50/MOR//		LAB/R/S	2	230	7.3	16.5	conductivity 950 uscm	15426
116	15477	<i>Poecilia reticulata</i>	7758987	4.3	LC50/MOR//		LAB/R/S	3	230	7.3	16.5	conductivity 950 uscm	15426
116	15481	<i>Poecilia reticulata</i>	7758987	8.24	LC50/MOR//		LAB/R/S	2	230	7.3	16.5	conductivity 950 uscm	15426
116	15482	<i>Poecilia reticulata</i>	7758987	5.26	LC50/MOR//		LAB/R/S	3	230	7.3	16.5	conductivity 950 uscm	15426
116	15486	<i>Poecilia reticulata</i>	7758987	5.99	LC50/MOR//		LAB/R/S	2	230	7.3	16.5	conductivity 950 uscm	15426
116	15487	<i>Poecilia reticulata</i>	7758987	3.44	LC50/MOR//		LAB/R/S	3	230	7.3	16.5	conductivity 950 uscm	15426
116	15491	<i>Poecilia reticulata</i>	7758987	3.8	LC50/MOR//		LAB/R/S	2	230	7.3	16.5	conductivity 950 uscm	15426
116	15492	<i>Poecilia reticulata</i>	7758987	2.92	LC50/MOR//		LAB/R/S	3	230	7.3	16.5	conductivity 950 uscm	15426
116	15498	<i>Poecilia reticulata</i>	7758987	37	LC50/MOR/INC/	1.84 mg, 1.5 cm	LAB/R/	2	260	7.4	21	10343	
116	15501	<i>Poecilia reticulata</i>	7758987	1.172	LC50/MOR/INC/	0.186 (0.150-0.240) g,	LAB/S/C	2	240	7.5	26.5	3527	
116	15630	<i>Rana tigrina</i>	7758987	0.47	LC50/MOR/INC/	larva, 0.09 (0.07-0.10) g,	LAB/S/C	2	240	7.5	26.5	3527	
116	15648	<i>Rasbora daniconius neilgeriens</i>	7758987	0.571	LC50/MOR/INC/	4.0-6.5 cm, 300-500 mg	LAB/S/C	2	240	7.5	25	714	
116	15649	<i>Rasbora daniconius neilgeriens</i>	7758987	0.265	LC50/MOR/INC/	4.0-6.5 cm, 300-500 mg	LAB/S/C	3	240	7.5	25	714	
116	15653	<i>Rasbora daniconius neilgeriens</i>	7758987	0.57	LC50/MOR/INC/	3.80 (3.0-5.0)g, 5.2 (4.0-6.5) cm	LAB/S/C	2	240	7.5	26.5	3527	
116	15656	<i>Rhinichthys atratulus</i>	7758987	0.38	LC50/MOR//	47 mm, 1.1 g	LAB/F/S	2	200.5	8	24	2071	
116	15685	<i>Semotilus atromaculatus</i>	7758987	0.37	LC50/MOR//	64 mm, 4.0 g	LAB/F/S	2	200.5	8	24	2071	

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
117	Vertebrates exposed to copper in very hard water at >15degC over <=1 day exposure												
117	12796	<i>Ameiurus nebulosus</i>	7758987	0.65	LC50/MOR//	39 mm	LAB/F/S	1	200.5	8	24	2071	
117	12799	<i>Ameiurus nebulosus</i>	7758987	11.1	LC50/MOR//	52 mm, 1.4 g	LAB/F/S	1	314	8	24	2071	
117	12802	<i>Ameiurus nebulosus</i>	7758987	16	LC50/MOR//	53 mm, 1.5 g	LAB/F/S	1	303	8	24	2071	
117	13055	<i>Campostoma anomalum</i>	7758987	0.4	LC50/MOR//	60 mm	LAB/F/S	1	200.5	8	24	2071	
117	13226	<i>Channa marulius</i>	7758987	3.5	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/S/S	0.5	270	7.35	26	10721	
117	13227	<i>Channa marulius</i>	7758987	1.658	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/S/S	1	270	7.35	26	10721	
117	12593	<i>Ctenopharyngodon idella</i>	7447394	55	/MOR//	3-5 cm	LAB/S/S	0.09	194.8	6.7	22.5	15701	
117	12594	<i>Cyprinus carpio</i>	7447394	25	/HIS//	3-5 cm	LAB/S/S	0.04	194.8	6.7	22.5	15701	
117	12595	<i>Cyprinus carpio</i>	7447394	25	/HIS//	3-5 cm	LAB/S/S	0.04	194.8	6.7	22.5	15701	
117	12596	<i>Cyprinus carpio</i>	7447394	55	/MOR//	3-5 cm	LAB/S/S	0.04	194.8	6.7	22.5	15701	
117	13833	<i>Etheostoma caeruleum</i>	7758987	0.4	LC50/MOR//	41 mm	LAB/F/S	1	200.5	8	24	2071	
117	13836	<i>Etheostoma caeruleum</i>	7758987	14	LC50/MOR//	46 mm, 1.2 g	LAB/F/S	1	314	8	24	2071	
117	13839	<i>Etheostoma caeruleum</i>	7758987	18	LC50/MOR//	46 mm, 1.0 g	LAB/F/S	1	303	8	24	2071	
117	13862	<i>Etheostoma spectabile</i>	7758987	0.93	LC50/MOR//	44 mm, 0.9 g	LAB/F/S	1	200.5	8	24	2071	
117	13865	<i>Etheostoma spectabile</i>	7758987	9.9	LC50/MOR//	52 mm, 1.4 g	LAB/F/S	1	314	8	24	2071	
117	13868	<i>Etheostoma spectabile</i>	7758987	20	LC50/MOR//	44 mm, 0.8 g	LAB/F/S	1	303	8	24	2071	
117	16094	<i>Gnathonemus petersi</i>	7758987	0.3	/HIS/INC/	male, 9-10 cm tl	LAB/F/C	0.25	288	7.1	25	19563	
117	14102	<i>Lepomis macrochirus</i>	7758987	1.942	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	0.25	209.35	7.75	24	see paper	2135
117	14103	<i>Lepomis macrochirus</i>	7758987	3.374	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	0.25	366.8	7.85	24	see paper	2135
117	14105	<i>Lepomis macrochirus</i>	7758987	1.17	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	1	209.35	7.75	24	see paper	2135
117	14106	<i>Lepomis macrochirus</i>	7758987	1.651	LC50/MOR//	42.0 mm, 0.59 g	LAB/S/S	1	366.8	7.85	24	see paper	2135
117	14116	<i>Lepomis macrochirus</i>	7758987	13	LC50/MOR//	103 mm, 18.6 g	LAB/F/S	1	200.5	8	24	2071	
117	14119	<i>Lepomis macrochirus</i>	7758987	14	LC50/MOR//	101 mm, 19.2 g	LAB/F/S	1	200.5	8	24	2071	

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
117	14158	<i>Lepomis macrochirus</i>	7758987	10.7	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	360	7.25	25		2033
117	16731	<i>Lepomis macrochirus</i>	7758987	0.034	/BEH//	2 yr, 12.8-15.0 cm total length	LAB/F/S	0.08	273.3	7.4	16.5		12063
117	14179	<i>Luxilus chrysocephalus</i>	7758987	0.83	LC50/MOR//	55 mm	LAB/F/S	1	200.5	8	24		2071
117	14182	<i>Luxilus chrysocephalus</i>	7758987	1.6	LC50/MOR//	55 mm, 1.7 g	LAB/F/S	1	200.5	8	24		2071
117	14185	<i>Luxilus chrysocephalus</i>	7758987	9.4	LC50/MOR//	47 mm	LAB/F/S	1	314	8	24		2071
117	14188	<i>Luxilus chrysocephalus</i>	7758987	16	LC50/MOR//	50 mm, 0.9 g	LAB/F/S	1	303	8	24		2071
117	14379	<i>Mystus bleekeri</i>	7758987	4.28	LC50/MOR//	3.5 g, 8.5 cm	LAB/R/S	0.5	240	7.5	25	conductivity	13150
117	14380	<i>Mystus bleekeri</i>	7758987	4.05	LC50/MOR//	3.5 g, 8.5 cm	LAB/R/S	1	240	7.5	25	conductivity	13150
117	14446	<i>Oncorhynchus mykiss</i>	7758987	1.25	LC50/MOR//	12-16 cm	LAB/F/I	1	300	7.35	15.3		978
117	14704	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	84 mm, 6.7 g	LAB/F/S	1	200.5	8	24		2071
117	14707	<i>Pimephales notatus</i>	7758987	10	LC50/MOR//	39 mm, 0.43 g	LAB/F/S	1	314	8	24		2071
117	14710	<i>Pimephales notatus</i>	7758987	15	LC50/MOR//	40 mm, 0.6 g	LAB/F/S	1	303	8	24		2071
117	14721	<i>Pimephales notatus</i>	7758987	19	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	305	7.9	24		2071
117	14725	<i>Pimephales notatus</i>	7758987	5.5	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	274	8	24	ca, mg	2071
117	14727	<i>Pimephales notatus</i>	7758987	5.7	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	302	7.9	24	ca, mg	2071
117	14729	<i>Pimephales notatus</i>	7758987	19	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	312	7.9	24	ca, mg	2071
117	14731	<i>Pimephales notatus</i>	7758987	12.1	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	322	8	24		2071
117	14733	<i>Pimephales notatus</i>	7758987	8	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	236	7.8	24	ca, mg	2071
117	14735	<i>Pimephales notatus</i>	7758987	6.5	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	258	8	24	ca, mg	2071
117	14741	<i>Pimephales notatus</i>	7758987	8.6	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	276	8	24	ca, mg	2071
117	14745	<i>Pimephales notatus</i>	7758987	2.3	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	222	7.9	24	ca, mg	2071
117	14747	<i>Pimephales notatus</i>	7758987	4.5	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	246	7.8	24	ca, mg	2071

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
117	14749	<i>Pimephales notatus</i>	7758987	3.3	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	316	7.8	24	ca, mg	2071
117	14751	<i>Pimephales notatus</i>	7758987	3.2	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	324	7.9	24	ca, mg	2071
117	14759	<i>Pimephales notatus</i>	7758987	11	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	320	8	24	ca, mg, tp, k, na, cl, c, no3	2071
117	14761	<i>Pimephales notatus</i>	7758987	5.7	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	318	8	24	ca, mg, tp, k, na, cl, c, no3	2071
117	14763	<i>Pimephales notatus</i>	7758987	10	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	318	8	24	ca, mg, tp, k, na, cl, c, no3	2071
117	14766	<i>Pimephales notatus</i>	7758987	8	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	314	8	24	ca, mg, tp, k, na, cl, c, no3	2071
117	14767	<i>Pimephales notatus</i>	7758987	12	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	318	7.9	24	ca, mg, tp, k, na, cl, c, no3	2071
117	14779	<i>Pimephales notatus</i>	7758987	8.9	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	296	8	24	ca, mg, tp, k, na, cl, c, no3	2071
117	14789	<i>Pimephales notatus</i>	7758987	2.8	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	308	7.8	24	ca, mg, tp, k, na, cl, c, no3	2071
117	14801	<i>Pimephales notatus</i>	7758987	19	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	316	7.8	24	ca, mg	2071
117	14803	<i>Pimephales notatus</i>	7758987	9.2	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	276	8	24		2071
117	14805	<i>Pimephales notatus</i>	7758987	9.2	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	330	7.9	24		2071
117	14807	<i>Pimephales notatus</i>	7758987	8	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	370	8	24		2071
117	14809	<i>Pimephales notatus</i>	7758987	0.29	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	208	7.7	24		2071
117	14815	<i>Pimephales notatus</i>	7758987	0.18	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	233	7.6	24	ca, mg	2071
117	14817	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	282	7.6	24		2071
117	14819	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	337	7.7	24	ca, mg	2071
117	14821	<i>Pimephales notatus</i>	7758987	5.6	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	220	7.9	24		2071
117	14825	<i>Pimephales notatus</i>	7758987	6.3	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	322	7.9	24		2071
117	14837	<i>Pimephales notatus</i>	7758987	0.29	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	200.5	8	24		2071

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
117	14840	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	200.5	8	24		2071
117	14843	<i>Pimephales notatus</i>	7758987	0.29	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	200	8	24		2071
117	14844	<i>Pimephales notatus</i>	7758987	0.26	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	200	8	24		2071
117	14847	<i>Pimephales notatus</i>	7758987	0.28	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	200.5	8	24		2071
117	14886	<i>Pimephales promelas</i>	7758987	0.58	LC50/MOR//	56 mm	LAB/F/S	1	200.5	8	24		2071
117	14889	<i>Pimephales promelas</i>	7758987	0.52	LC50/MOR//	47 mm	LAB/F/S	1	200.5	8	24		2071
117	14892	<i>Pimephales promelas</i>	7758987	13	LC50/MOR//	44 mm	LAB/F/S	1	314	8	24		2071
117	14895	<i>Pimephales promelas</i>	7758987	16	LC50/MOR//	42 mm, 0.6 g	LAB/F/S	1	303	8	24		2071
117	14980	<i>Pimephales promelas</i>	7758987	10	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	255	7.8	24	ca, mg	2071
117	14982	<i>Pimephales promelas</i>	7758987	9.1	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	205	7.8	24	ca, mg	2071
117	14992	<i>Pimephales promelas</i>	7758987	11	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	292	7.9	24	ca, mg	2071
117	14994	<i>Pimephales promelas</i>	7758987	6.7	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	300	7.9	24		2071
117	14996	<i>Pimephales promelas</i>	7758987	3.6	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	302	8	24	ca, mg	2071
117	14998	<i>Pimephales promelas</i>	7758987	2.9	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	296	7.9	24	ca, mg	2071
117	15002	<i>Pimephales promelas</i>	7758987	0.94	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	234	7.9	24		2071
117	15004	<i>Pimephales promelas</i>	7758987	1.6	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	302	7.9	24		2071
117	15008	<i>Pimephales promelas</i>	7758987	3.7	LC50/MOR//	young of yr, 25-50 mm	LAB/S/S	1	284	8	24		2071
117	15235	<i>Pimephales promelas</i>	7758987	0.72	LC50/MOR/INC/	40 mm	LAB/S/C	1	200	7.4	22	newton hatchery fish	10237
117	15237	<i>Pimephales promelas</i>	7758987	0.39	LC50/MOR/INC/	40 mm	LAB/S/C	1	200	7.4	22	flyash pond fish	10237
117	15344	<i>Pimephales promelas</i>	7758987	2.71	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	360	7.25	25		2033

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
117	15347	<i>Pimephales promelas</i>	7758987	1.59	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	360	7.25	25		2033
117	15359	<i>Pimephales promelas</i>	7758987	0.027	LOEC/AVO//	12-14 mo, 3.14 g, 63.3 mm	LAB/F/S	0.04	380	7.85	20		9598
117	15411	<i>Pimephales promelas</i>	7758987	0.01	NOEC/AVO//	12-14 mo, 3.14 g, 63.3 mm	LAB/F/S	0.04	380	7.85	20		9598
117	15462	<i>Poecilia reticulata</i>	7758987	3.96	LC50/MOR//	0.15 g, 1.5 cm	LAB/S/I	1	230	7.3	16.5	specific conductance = 950 umhocm	6346
117	15469	<i>Poecilia reticulata</i>	7758987	7.94	LC50/MOR//		LAB/R/S	0.5	230	7.3	16.5	conductivity 950 uscm	15426
117	15470	<i>Poecilia reticulata</i>	7758987	3.97	LC50/MOR//		LAB/R/S	1	230	7.3	16.5	conductivity 950 uscm	15426
117	15474	<i>Poecilia reticulata</i>	7758987	15.36	LC50/MOR//		LAB/R/S	0.5	230	7.3	16.5	conductivity 950 uscm	15426
117	15475	<i>Poecilia reticulata</i>	7758987	8.66	LC50/MOR//		LAB/R/S	1	230	7.3	16.5	conductivity 950 uscm	15426
117	15479	<i>Poecilia reticulata</i>	7758987	20.48	LC50/MOR//		LAB/R/S	0.5	230	7.3	16.5	conductivity 950 uscm	15426
117	15480	<i>Poecilia reticulata</i>	7758987	20.48	LC50/MOR//		LAB/R/S	1	230	7.3	16.5	conductivity 950 uscm	15426
117	15484	<i>Poecilia reticulata</i>	7758987	20.48	LC50/MOR//		LAB/R/S	0.5	230	7.3	16.5	conductivity 950 uscm	15426
117	15485	<i>Poecilia reticulata</i>	7758987	10.07	LC50/MOR//		LAB/R/S	1	230	7.3	16.5	conductivity 950 uscm	15426
117	15489	<i>Poecilia reticulata</i>	7758987	17	LC50/MOR//		LAB/R/S	0.5	230	7.3	16.5	conductivity 950 uscm	15426
117	15490	<i>Poecilia reticulata</i>	7758987	11.6	LC50/MOR//		LAB/R/S	1	230	7.3	16.5	conductivity 950 uscm	15426
117	15499	<i>Poecilia reticulata</i>	7758987	2.11	LC50/MOR/INC/	0.186 (0.150-0.240) g,	LAB/S/C	0.5	240	7.5	26.5		3527
117	15500	<i>Poecilia reticulata</i>	7758987	1.57	LC50/MOR/INC/	0.186 (0.150-0.240) g,	LAB/S/C	1	240	7.5	26.5		3527
117	15628	<i>Rana tigrina</i>	7758987	1.996	LC50/MOR/INC/	larva, 0.09 (0.07-0.10) g,	LAB/S/C	0.5	240	7.5	26.5		3527
117	15629	<i>Rana tigrina</i>	7758987	0.693	LC50/MOR/INC/	larva, 0.09 (0.07-0.10) g,	LAB/S/C	1	240	7.5	26.5		3527
117	15646	<i>Rasbora daniconius neilgeriens</i>	7758987	2.133	LC50/MOR/INC/	4.0-6.5 cm, 300-500 mg	LAB/S/C	0.5	240	7.5	25		714

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
117	15647	<i>Rasbora daniconius neilgeriens</i>	7758987	0.73	LC50/MOR/INC/	4.0-6.5 cm, 300-500 mg	LAB/S/C	1	240	7.5	25	714	
117	15651	<i>Rasbora daniconius neilgeriens</i>	7758987	2.133	LC50/MOR/INC/	3.80 (3.0-5.0)g, 5.2 (4.0-6.5) cm	LAB/S/C	0.5	240	7.5	26.5	3527	
117	15652	<i>Rasbora daniconius neilgeriens</i>	7758987	0.73	LC50/MOR/INC/	3.80 (3.0-5.0)g, 5.2 (4.0-6.5) cm	LAB/S/C	1	240	7.5	26.5	3527	
117	15655	<i>Rhinichthys atratulus</i>	7758987	0.52	LC50/MOR//	47 mm, 1.1 g	LAB/F/S	1	200.5	8	24	2071	
117	15684	<i>Semotilus atromaculatus</i>	7758987	0.48	LC50/MOR//	64 mm, 4.0 g	LAB/F/S	1	200.5	8	24	2071	
118	Arthropods exposed to lead in soft water at <15degC over 3-30 days exposure												
118	18639	<i>Asellus aquaticus</i>	10099748	64.1	LC50/ITX//	adult, 7 mm, 1.5 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
118	18744	<i>Crangonyx pseudogracilis</i>	10099748	27.6	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
118	18784	<i>Drunella grandis</i>	10099748	3.5	LC50/MOR/INC/	naiads, <0.01 g	LAB/F/C	14	50	7.1	6	10198	
118	18805	<i>Gammarus pseudolimnaeus</i>	10099748	0.0284	LC50/ITX//	5-7 mm	LAB/F/I	28	46	7.4	15	2104	
118	18806	<i>Gammarus pseudolimnaeus</i>	10099748	0.124	LC50/ITX//	5-7 mm	LAB/F/I	4	46	7.4	15	2104	
118	18807	<i>Gammarus pseudolimnaeus</i>	10099748	0.032	LOEC/ITX//	5-7 mm	LAB/F/I	28	45	7.4	15	2104	
118	18968	<i>Pteronarcys californicus</i>	10099748	19.2	LC50/MOR/INC/	naiads	LAB/F/C	14	50	7.1	6	10198	
118	19158	<i>Pteronarcys californicus</i>	10099748	10.14	NR-ZERO/MOR/NEF/	naiads, 33 mm	LAB/F/C	11	32	7.02	3.5	14388	
119	Arthropods exposed to lead in soft water at >15degC over 3-30 days exposure												
119	18723	<i>Ceriodaphnia reticulata</i>	10099748	0.53	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75	45139	
119	18760	<i>Daphnia carinata</i>	10099748	1.7	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75	45139	
119	18470	<i>Daphnia magna</i>	7758954	0.3	LC50/ITX//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
119	18471	<i>Daphnia magna</i>	7758954	0.1	EC50/REP//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
119	18804	<i>Gammarus pseudolimnaeus</i>	10099748	0.14	LC50/MOR/INC/	0.053 g	LAB/F/I	4	48.3	6.5	17.6	acidity	10579
119	18861	<i>Mesocyclops hyalinus</i>	10099748	2.6	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75	45139	
119	18866	<i>Moina macrocopa</i>	10099748	13	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75	45139	
119	18967	<i>Procambarus clarkii</i>	10099748	751.57	LC50/MOR//	juvenile, 1-1.5 cm	LAB/R/S	4	30.32	7.4	22	6937	
119	18997	<i>Stenocypris malcolmsoni</i>	10099748	0.004	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75	45139	

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
119	19000	<i>Tanytarsus dissimilis</i>	10099748	0.258	LC50/MOR//	2nd and 3rd instar eggs	LAB/S/U	10	46.8	7.5	22		5249
120	Arthropods exposed to lead in soft water at >15degC over 1-3 days exposure												
120	18722	<i>Ceriodaphnia reticulata</i>	10099748	2.3	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18724	<i>Ceriodaphnia reticulata</i>	10099748	0.25	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18725	<i>Ceriodaphnia reticulata</i>	10099748	0.14	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18759	<i>Daphnia carinata</i>	10099748	5.5	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18761	<i>Daphnia carinata</i>	10099748	0.45	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18762	<i>Daphnia carinata</i>	10099748	0.045	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18469	<i>Daphnia magna</i>	7758954	0.45	LC50/ITX//	12 h	LAB/S/I	2	45.3	7.74	18	see paper	2022
120	18768	<i>Daphnia magna</i>	10099748	0.517	LC50/MOR//	< 1 d	LAB/S/I	2	54	7.6	19.4	water parameters rpt	3621
120	18487	<i>Daphnia pulex</i>	7758954	0.52	LC50/MOR/INC/	>=6 d	LAB/S/C	2	46	7.5	21		3402
120	18488	<i>Daphnia pulex</i>	7758954	3.9	LC50/MOR/INC/	>=6 d	LAB/S/C	2	46	7.5	21		3402
120	18803	<i>Gammarus pseudolimnaeus</i>	10099748	0.275	LC50/MOR//	0.053 g	LAB/F/I	2	48.3	6.5	17.6	acidity	10579
120	18860	<i>Mesocyclops hyalinus</i>	10099748	8	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18862	<i>Mesocyclops hyalinus</i>	10099748	2.5	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18863	<i>Mesocyclops hyalinus</i>	10099748	0.25	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18867	<i>Moina macrocopa</i>	10099748	14	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18868	<i>Moina macrocopa</i>	10099748	0.25	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18996	<i>Stenocypris malcolmsoni</i>	10099748	5.5	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18998	<i>Stenocypris malcolmsoni</i>	10099748	1.4	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
120	18999	<i>Stenocypris malcolmsoni</i>	10099748	0.14	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
121	Invertebrates exposed to lead in soft water at <15degC over 3-30 days exposure												
121	18639	<i>Asellus aquaticus</i>	10099748	64.1	LC50/ITX//	adult, 7 mm, 1.5 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
121	18744	<i>Crangonyx pseudogracilis</i>	10099748	27.6	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
121	18784	<i>Drunella grandis</i>	10099748	3.5	LC50/MOR/INC/	naiads, <0.01 g	LAB/F/C	14	50	7.1	6		10198

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
121	18805	<i>Gammarus pseudolimnaeus</i>	10099748	0.0284	LC50/ITX//	5-7 mm	LAB/F/I	28	46	7.4	15		2104
121	18806	<i>Gammarus pseudolimnaeus</i>	10099748	0.124	LC50/ITX//	5-7 mm	LAB/F/I	4	46	7.4	15		2104
121	18807	<i>Gammarus pseudolimnaeus</i>	10099748	0.032	LOEC/ITX//	5-7 mm	LAB/F/I	28	45	7.4	15		2104
121	18968	<i>Pteronarcys californicus</i>	10099748	19.2	LC50/MOR/INC/	naiads	LAB/F/C	14	50	7.1	6		10198
121	19158	<i>Pteronarcys californicus</i>	10099748	10.14	NR-ZERO/MOR/NEF/	naiads, 33 mm	LAB/F/C	11	32	7.02	3.5		14388
122	Invertebrates exposed to lead in soft water at >15degC over 3-30 days exposure												
122	18723	<i>Ceriodaphnia reticulata</i>	10099748	0.53	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
122	18760	<i>Daphnia carinata</i>	10099748	1.7	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
122	18470	<i>Daphnia magna</i>	7758954	0.3	LC50/ITX//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
122	18471	<i>Daphnia magna</i>	7758954	0.1	EC50/REP//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
122	18243	<i>Dugesia tigrina</i>	7439921	160	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
122	18804	<i>Gammarus pseudolimnaeus</i>	10099748	0.14	LC50/MOR/INC/	0.053 g	LAB/F/I	4	48.3	6.5	17.6	acidity	10579
122	18832	<i>Heliodiaptomus viduus</i>	10099748	0.15	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
122	18856	<i>Lumbriculus variegatus</i>	10099748	1.8	LC50/MOR/INC/		LAB/S/C	4	30	7.5	20		6502
122	18861	<i>Mesocyclops hyalinus</i>	10099748	2.6	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
122	18866	<i>Moina macrocopa</i>	10099748	13	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
122	18533	<i>Philodina acuticornis</i>	7758954	50.4	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
122	18534	<i>Philodina acuticornis</i>	7758954	40.8	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
122	18967	<i>Procambarus clarkii</i>	10099748	751.57	LC50/MOR//	juvenile, 1-1.5 cm	LAB/R/S	4	30.32	7.4	22		6937
122	18997	<i>Stenocypris malcolmsoni</i>	10099748	0.004	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
122	19000	<i>Tanytarsus dissimilis</i>	10099748	0.258	LC50/MOR//	2nd and 3rd instar eggs	LAB/S/U	10	46.8	7.5	22		5249
123	Invertebrates exposed to lead in soft water at >15degC over 1-3 days exposure												
123	18722	<i>Ceriodaphnia reticulata</i>	10099748	2.3	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18724	<i>Ceriodaphnia reticulata</i>	10099748	0.25	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
123	18725	<i>Ceriodaphnia reticulata</i>	10099748	0.14	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18759	<i>Daphnia carinata</i>	10099748	5.5	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18761	<i>Daphnia carinata</i>	10099748	0.45	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18762	<i>Daphnia carinata</i>	10099748	0.045	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18469	<i>Daphnia magna</i>	7758954	0.45	LC50/ITX//	12 h	LAB/S/I	2	45.3	7.74	18	see paper	2022
123	18768	<i>Daphnia magna</i>	10099748	0.517	LC50/MOR//	< 1 d	LAB/S/I	2	54	7.6	19.4	water parameters rpt	3621
123	18487	<i>Daphnia pulex</i>	7758954	0.52	LC50/MOR/INC/	>=6 d	LAB/S/C	2	46	7.5	21		3402
123	18488	<i>Daphnia pulex</i>	7758954	3.9	LC50/MOR/INC/	>=6 d	LAB/S/C	2	46	7.5	21		3402
123	18803	<i>Gammarus pseudolimnaeus</i>	10099748	0.275	LC50/MOR//	0.053 g	LAB/F/I	2	48.3	6.5	17.6	acidity	10579
123	18831	<i>Heliodiaptomus viduus</i>	10099748	3.1	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18833	<i>Heliodiaptomus viduus</i>	10099748	0.14	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18834	<i>Heliodiaptomus viduus</i>	10099748	0.045	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18855	<i>Lumbriculus variegatus</i>	10099748	3.4	LC50/MOR/INC/		LAB/S/C	2	30	7.5	20		6502
123	18860	<i>Mesocyclops hyalinus</i>	10099748	8	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18862	<i>Mesocyclops hyalinus</i>	10099748	2.5	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18863	<i>Mesocyclops hyalinus</i>	10099748	0.25	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18867	<i>Moina macrocopa</i>	10099748	14	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18868	<i>Moina macrocopa</i>	10099748	0.25	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18532	<i>Philodina acuticornis</i>	7758954	50.5	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
123	18535	<i>Philodina acuticornis</i>	7758954	47.4	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
123	18992	<i>Spirostomum ambiguum</i>	10099748	1.93	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
123	18994	<i>Spirostomum ambiguum</i>	10099748	2.67	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
123	18996	<i>Stenocypris malcolmsoni</i>	10099748	5.5	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
123	18998	<i>Stenocypris malcolmsoni</i>	10099748	1.4	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
123	18999	<i>Stenocypris malcolmsoni</i>	10099748	0.14	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
124	Vertebrates exposed to lead in moderately hard water at >15degC over 3-30 days exposure												
124	18451	<i>Ambystoma opacum</i>	7758954	1.46	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
124	19204	<i>Anabas scandens</i>	10099748	10	/BCM//	30 g	LAB//S	8	112	7.3	29		4024
124	19205	<i>Anabas scandens</i>	10099748	10	/ENZ//	30 g	LAB//S	8	112	7.3	29		4024
124	19296	<i>Colisa fasciata</i>	10099748	9.3	/BCM//	6.19 g	LAB/S/I	3.75	120	7.3	29	conductance 10-100 umhocm	5640
124	19516	<i>Colisa fasciata</i>	13826658	19	LC50/MOR//	6.19 g, female	LAB/S/I	4	120	6.3	29	conductivity 10-100 umhocm	5640
124	18020	<i>Cyprinus carpio</i>	301042	14	NR-ZERO/MOR/NEF/	fingerling, 15 g, 11 cm	LAB//	4	104	7.4	23		45153
124	18751	<i>Cyprinus carpio</i>	10099748	0.17	LC50/MOR//	4-5cm	LAB/R/S	4	115	7.5	27	carbonates,bicarbonates,sulphates,phosphates,chlorides,	2077
124	17959	<i>Danio rerio</i>	301042	0.04	MATC/MOR/INC/	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
124	17960	<i>Danio rerio</i>	301042	0.17	MATC/MOR/INC/	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
124	17961	<i>Danio rerio</i>	301042	0.02	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/S	16	100	7.6	25.9		3680
124	17962	<i>Danio rerio</i>	301042	0.03	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/S	13	100	7.6	25.9		3680
124	18515	<i>Micropterus salmoides</i>	7758954	0.24	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
124	18976	<i>Rana cyanophlyctis</i>	10099748	1540.7	LC50/MOR/INC/		LAB/R/C	4	65	7.59	23		45137
124	18980	<i>Rana cyanophlyctis</i>	10099748	1632.3	LC50/MOR/INC/		LAB/R/C	4	65	7.59	23		45137
124	19017	<i>Tilapia hornorum</i>	10099748	202	LC50/MOR//	4 g	LAB/S/S	4	120	7.35	20		94
124	18059	<i>Tilapia nilotica</i>	301042	14	NR-ZERO/MOR/NEF/	fingerling, 15 g, 11 cm	LAB//	4	104	7.4	23		45153
124	18060	<i>Xenopus laevis</i>	301042	1.51	/DVP/INC/	embryos, 1-3 d post-fertilization	LAB//C	3.5	110	7.7	23		45121
124	18061	<i>Xenopus laevis</i>	301042	1.51	/DVP/INC/	embryos, 1-3 d post-fertilization	LAB/R/C	11	110	7.7	23		45121
125	Vertebrates exposed to lead in very hard water at >15degC over 3-30 days exposure												
125	18457	<i>Carassius auratus</i>	7758954	1.66	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
125	17952	<i>Cyprinus carpio</i>	301042	26.9	LC50/MOR/INC/	fertilization eggs	LAB/S/C	4	274	7.725	24		45108
125	17953	<i>Cyprinus carpio</i>	301042	24.42	LC50/MOR/INC/	larvae, 7 d, 1.0 cm	LAB/S/C	4	274	7.725	24		45108

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
125	17954	<i>Cyprinus carpio</i>	301042	55.57	LC50/MOR/INC/	fry, 30 d, 2.5 cm	LAB/S/C	4	274	7.725	24		45108
125	18493	<i>Gastrophryne carolinensis</i>	7758954	0.04	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
125	18830	<i>Gila elegans</i>	10099748	170	LC50/MOR/INC/	larva, 5 d, 8 mm, 2 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
125	19103	<i>Gila elegans</i>	10099748	170	NR-ZERO/MOR/NEF/	larva, 5 d, 8 mm, 2 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
125	19104	<i>Gila elegans</i>	10099748	170	NR-ZERO/MOR/NEF/	juvenile, 100 d, 39 mm, 378 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
125	18537	<i>Pimephales promelas</i>	7758954	0.81	LC50/MOR//	<=24 h	LAB//I	4	290	6.295	25		7289
125	18538	<i>Pimephales promelas</i>	7758954	5.4	LC50/MOR//	<=24 h	LAB//I	4	290	7.075	25		7289
125	18970	<i>Ptychocheilus lucius</i>	10099748	170	LC50/MOR/INC/	larva, 9 d, 9 mm, 4 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
125	18971	<i>Ptychocheilus lucius</i>	10099748	170	LC50/MOR/INC/	juvenile, 155 d, 43 mm, 499 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
125	18972	<i>Ptychocheilus lucius</i>	10099748	170	LC50/MOR/INC/	juvenile, 100 d, 39 mm, 378 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
125	19160	<i>Ptychocheilus lucius</i>	10099748	170	NR-ZERO/MOR/NEF/	larva, 9 d, 9 mm, 4 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
125	19161	<i>Ptychocheilus lucius</i>	10099748	170	NR-ZERO/MOR/NEF/	juvenile, 155 d, 43 mm, 499 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
125	19163	<i>Rana catesbeiana</i>	10099748	0.525	/BEH/CHG/MULT	tadpoles, 8.1 cm, 7.29 g	LAB/R/C	3.5	340.5	7.21	23		45126
125	19165	<i>Rana catesbeiana</i>	10099748	1.7	/HRM/CHG/MULT	tadpole, gosner stage 25	LAB/R/C	7	341	7.9	24		45138
125	19166	<i>Rana catesbeiana</i>	10099748	1.7	/BCM/INC/NOSIG	tadpole, gosner stage 25	LAB/R/C	7	341	7.9	24		45138
125	19167	<i>Rana catesbeiana</i>	10099748	0.776	/BEH/DEC/SIG	stage 25, larvae, no visible	LAB/R/C	7	248	7.96	23		20484
125	19168	<i>Rana catesbeiana</i>	10099748	0.776	/GRO/NEF/NOSIG	stage 25, larvae, no visible	LAB/R/C	7	248	7.96	23		20484
125	19169	<i>Rana catesbeiana</i>	10099748	0.776	/POP/DEC/SIG	stage 25, larvae, no visible	LAB/R/C	7	248	7.96	23		20484
125	19170	<i>Rana catesbeiana</i>	10099748	0.776	/BEH/INC/SIG	stage 25, larvae, no visible	LAB/R/C	7	248	7.96	23		20484
125	19171	<i>Rana catesbeiana</i>	10099748	0.786	/POP/DEC/SIG	stage 25, larvae, no visible	LAB/R/C	7	244	7.86	23		20484

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
125	19172	<i>Rana catesbeiana</i>	10099748	0.776	/PHY/INC/SIG	stage 25, larvae, no visible	LAB/R/C	7	248	7.96	23		20484
125	19173	<i>Rana catesbeiana</i>	10099748	0.786	/PHY/DEC/SIG	stage 25, larvae, no visible	LAB/R/C	7	244	7.86	23		20484
125	19174	<i>Rana catesbeiana</i>	10099748	0.786	/BEH/DEC/SIG	stage 25, larvae, no visible	LAB/R/C	7	244	7.86	23		20484
125	19484	<i>Rana catesbeiana</i>	10099748	0.786	/BEH/INC/	stage 25, larvae, no visible	LAB/R/C	7	244	7.86	23		20484
125	19486	<i>Rana catesbeiana</i>	10099748	0.786	/GRO/NEF/	stage 25, larvae, no visible	LAB/R/C	7	244	7.86	23		20484
125	19488	<i>Rana catesbeiana</i>	10099748	0.776	/FDB/DEC/	stage 25, larvae, no visible	LAB/R/C	7	248	7.96	23		20484
125	19039	<i>Xyrauchen texanus</i>	10099748	170	LC50/MOR/INC/	larva, 6 d, 11 mm, 4 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
125	19040	<i>Xyrauchen texanus</i>	10099748	170	LC50/MOR/INC/	juvenile, 109 d, 34 mm, 394 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
125	19200	<i>Xyrauchen texanus</i>	10099748	170	NR-ZERO/MOR/NEF/	larva, 6 d, 11 mm, 4 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
125	19201	<i>Xyrauchen texanus</i>	10099748	170	NR-ZERO/MOR/NEF/	juvenile, 109 d, 34 mm, 394 mg	LAB/S/C	4	199	8	25	precipitate formed	18325
126	Invertebrates exposed to mercury in soft water at >15degC over 3-30 days exposure												
126	21051	<i>Amnicola</i>	7439976	2.1	LC50/MOR//	egg	LAB/S/I	4	50	7.6	17		2020
126	21053	<i>Amnicola</i>	7439976	0.08	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
126	21316	<i>Aplexa hypnorum</i>	7487947	0.273	LC50/MOR//	adult	LAB/S/I	4	50	7.3	25.1		10417
126	21075	<i>Chironomus</i>	7439976	0.02	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
126	21585	<i>Daphnia magna</i>	7487947	0.013	LC50/ITX//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
126	21586	<i>Daphnia magna</i>	7487947	0.0067	EC50/REP//	12 h	LAB/R/I	21	45.3	7.74	18	see paper	2022
126	22356	<i>Daphnia magna</i>	7487947	0.0027	NR-LETH/MOR//	< 24 h	LAB/F/S	21	45	7.6	18		15151
126	22677	<i>Daphnia magna</i>	7487947	0.0013	/REP//	< 24 h	LAB/F/S	21	45	7.6	18		15151
126	22678	<i>Daphnia magna</i>	7487947	0.0007	/REP//	< 24 h	LAB/F/S	21	45	7.6	18		15151
126	22679	<i>Daphnia magna</i>	7487947	0.0018	/REP//	< 24 h	LAB/R/S	21	45	7.6	18		15151
126	22680	<i>Daphnia magna</i>	7487947	0.0009	/REP//	< 24 h	LAB/R/S	21	45	7.6	18		15151
126	22681	<i>Daphnia magna</i>	7487947	0.0035	/MOR//	< 24 h	LAB/R/S	21	45	7.6	18		15151
126	22682	<i>Daphnia magna</i>	7487947	0.0018	/MOR//	< 24 h	LAB/R/S	21	45	7.6	18		15151
126	22683	<i>Daphnia magna</i>	7487947	0.0013	/MOR//	< 24 h	LAB/F/S	21	45	7.6	18		15151
126	22684	<i>Daphnia magna</i>	7487947	0.0035	/REP//		LAB/R/I	21	45	7.8	18		11698
126	21117	<i>Dugesia tigrina</i>	7439976	0.27	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
126	21126	<i>Gammarus</i>	7439976	0.01	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
126	21794	<i>Lumbriculus variegatus</i>	7487947	0.1	LC50/MOR/INC/		LAB/S/C	4	30	7.5	20		6502
126	21154	<i>Nais</i>	7439976	1	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
126	21976	<i>Philodina acuticornis</i>	7487947	0.8	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
126	21977	<i>Philodina acuticornis</i>	7487947	0.7	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
126	21161	<i>Trichoptera</i>	7439976	1.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
126	22261	<i>Viviparus bengalensis</i>	7487947	0.26	LC50/MOR//	26-28 mm, 2.5-3.5 g	LAB/R/I	4	52	7.45	25		5179
126	21163	<i>Zygoptera</i>	7439976	1.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
127	Invertebrates exposed to mercury in soft water at >15degC over 1-3 days exposure												
127	22552	<i>Barytelphusa cunicularis</i>	7487947	0.1	/BCM//	mature, 115 g	LAB//S	2.5	6.4	7.2	22		6549
127	21452	<i>Chydorus sphaericus</i>	7487947	0.022	LC50/ITX/INC/	adult	LAB/S/S	2	11.7	6.48	18	organism from non polluted lake, mesotrophic level	4258
127	21453	<i>Chydorus sphaericus</i>	7487947	0.059	LC50/ITX/INC/	adult	LAB/S/S	2	10.5	6.41	18	organism from pristine lake, dystrophic level	4258
127	21584	<i>Daphnia magna</i>	7487947	0.005	LC50/ITX//	12 h	LAB/S/I	2	45.3	7.74	18	see paper	2022
127	21647	<i>Daphnia pulex</i>	7487947	0.004	LC50/MOR/INC/	>=6 d	LAB/S/C	2	46	7.5	21		3402
127	21793	<i>Lumbriculus variegatus</i>	7487947	0.11	LC50/MOR/INC/		LAB/S/C	2	30	7.5	20		6502
127	21975	<i>Philodina acuticornis</i>	7487947	1.4	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
127	21978	<i>Philodina acuticornis</i>	7487947	1.3	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
127	22150	<i>Spirostomum ambiguum</i>	7487947	0.0213	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
127	22152	<i>Spirostomum ambiguum</i>	7487947	0.0377	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
127	22237	<i>Tubifex tubifex</i>	7487947	0.058	LC50/MOR//		LAB/R/S	2	0.1	6.3	20		8905
127	22239	<i>Tubifex tubifex</i>	7487947	0.066	LC50/MOR//		LAB/R/S	2	34.2	6.85	20	dilution h2o for bod without phosphate buffer, mg, po4, ca	8905
127	22241	<i>Tubifex tubifex</i>	7487947	0.082	LC50/MOR//		LAB/R/S	2	34.2	7.2	20	dilution h2o for bod with phosphate buffer, mg, po4, ca	8905

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
128	<i>Invertebrates exposed to mercury in soft water at >15degC over <=1 day exposure</i>												
128	21050	<i>Amnicola</i>	7439976	6.3	LC50/MOR//	egg	LAB/S/I	1	50	7.6	17		2020
128	21052	<i>Amnicola</i>	7439976	1.1	LC50/MOR//	adult	LAB/S/I	1	50	7.6	17		2020
128	22551	<i>Barytelphusa cunicularis</i>	7487947	0.1	/PHY//	mature, 115 g	LAB/S	0.26	6.4	7.2	22		6549
128	21346	<i>Brachionus calyciflorus</i>	7487947	0.026	LC50/MOR//	juvenile	LAB/S/S	1	36.2	7.3	20		3091
128	21074	<i>Chironomus</i>	7439976	0.06	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
128	21646	<i>Daphnia pulex</i>	7487947	0.009	LC50/MOR/INC/	>=6 d	LAB/S/C	1	46	7.5	21		3402
128	21125	<i>Gammarus</i>	7439976	0.09	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
128	21153	<i>Nais</i>	7439976	1.9	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
128	21974	<i>Philodina acuticornis</i>	7487947	2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
128	21979	<i>Philodina acuticornis</i>	7487947	1	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
128	22149	<i>Spirostomum ambiguum</i>	7487947	0.0202	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
128	22151	<i>Spirostomum ambiguum</i>	7487947	0.0393	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
128	21160	<i>Trichoptera</i>	7439976	5.6	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
128	22236	<i>Tubifex tubifex</i>	7487947	0.083	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
128	22238	<i>Tubifex tubifex</i>	7487947	0.064	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	dilution h2o for bod without phosphate buffer, mg, po4, ca	8905
128	22240	<i>Tubifex tubifex</i>	7487947	0.11	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	dilution h2o for bod with phosphate buffer, mg, po4, ca	8905
128	22260	<i>Viviparus bengalensis</i>	7487947	0.42	LC50/MOR//	26-28 mm, 2.5-3.5 g	LAB/R/I	1	52	7.45	25		5179
128	21162	<i>Zygoptera</i>	7439976	3.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
129	<i>Invertebrates exposed to mercury in very hard water at >15degC over 3-30 days exposure</i>												
129	21581	<i>Daphnia magna</i>	7487947	0.005	LC50/ITX/INC/	<24 h	LAB/R/	7	275	7.85	22		18379
129	21582	<i>Daphnia magna</i>	7487947	0.005	LC50/ITX/INC/	<24 h	LAB/R/	14	275	7.85	22		18379
129	21583	<i>Daphnia magna</i>	7487947	0.005	LC50/ITX/INC/	<24 h	LAB/R/	21	275	7.85	22		18379
129	21614	<i>Daphnia magna</i>	7487947	0.003	LOEC/GRO/DEC/SIG	<24 h	LAB/R/C	7	275	7.85	22		18379
129	21615	<i>Daphnia magna</i>	7487947	0.015	LOEC/GRO/DEC/SIG	<24 h	LAB/R/C	21	275	7.85	22		18379
129	21616	<i>Daphnia magna</i>	7487947	0.006	LOEC/MOR/DEC/SIG	<24 h	LAB/R/C	7	275	7.85	22		18379
129	21617	<i>Daphnia magna</i>	7487947	0.006	LOEC/MOR/DEC/SIG	<24 h	LAB/R/C	14	275	7.85	22		18379
129	21618	<i>Daphnia magna</i>	7487947	0.006	LOEC/MOR/DEC/SIG	<24 h	LAB/R/C	21	275	7.85	22		18379

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
129	21619	<i>Daphnia magna</i>	7487947	0.004	MATC/MOR/DEC/	<24 h	LAB/R/C	7	275	7.85	22		18379
129	21620	<i>Daphnia magna</i>	7487947	0.004	MATC/MOR/DEC/	<24 h	LAB/R/C	14	275	7.85	22		18379
129	21621	<i>Daphnia magna</i>	7487947	0.004	MATC/REP/DEC/	<24 h	LAB/R/C	14	275	7.85	22		18379
129	21622	<i>Daphnia magna</i>	7487947	0.004	MATC/REP/DEC/	<24 h	LAB/R/C	21	275	7.85	22		18379
129	21623	<i>Daphnia magna</i>	7487947	0.004	MATC/MOR/DEC/	<24 h	LAB/R/C	21	275	7.85	22		18379
129	21631	<i>Daphnia magna</i>	7487947	0.0015	NOEC/GRO/DEC/NOSIG	<24 h	LAB/R/C	7	275	7.85	22		18379
129	21632	<i>Daphnia magna</i>	7487947	0.007	NOEC/GRO/DEC/SIG	<24 h	LAB/R/C	21	275	7.85	22		18379
129	21633	<i>Daphnia magna</i>	7487947	0.003	NOEC/MOR/DEC/NOSIG	<24 h	LAB/R/C	7	275	7.85	22		18379
129	21634	<i>Daphnia magna</i>	7487947	0.003	NOEC/MOR/DEC/NOSIG	<24 h	LAB/R/C	14	275	7.85	22		18379
129	21635	<i>Daphnia magna</i>	7487947	0.003	NOEC/MOR/DEC/NOSIG	<24 h	LAB/R/C	21	275	7.85	22		18379
129	21636	<i>Daphnia magna</i>	7487947	0.003	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	14	275	7.85	22		18379
129	21637	<i>Daphnia magna</i>	7487947	0.003	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	21	275	7.85	22		18379
129	21798	<i>Lymnaea acuminata</i>	7487947	0.023	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	4	375	7.5	27.5	water chem profile rptd	11099
129	21801	<i>Lymnaea acuminata</i>	7487947	0.34	LC50/MOR//		LAB/S/I	4	230	7.5	23		12901
129	21805	<i>Lymnaea luteola</i>	7487947	0.135	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	4	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
129	21836	<i>Moina dubia</i>	7487947	0.027	LC50/MOR//		LAB/S/I	4	230	7.5	23		12901
129	22049	<i>Procambarus clarkii</i>	7487947	0.79	LC50/MOR//	adult, intermolt, 15-20 g	LAB/S/S	4	240	7.25	20		12565
129	22050	<i>Procambarus clarkii</i>	7487947	0.35	LC50/MOR//	adult, intermolt, 15-20 g	LAB/S/S	4	240	7.25	24		12565
129	22051	<i>Procambarus clarkii</i>	7487947	0.14	LC50/MOR//	adult, intermolt, 15-20 g	LAB/S/S	4	240	7.25	28		12565
129	22900	<i>Procambarus clarkii</i>	7487947	0.25	/ENZ//	adult intermolt, 20.7-30.3 g	LAB/R/S	4	240	7.25	22		3407
130	Invertebrates exposed to mercury in very hard water at >15degC over 1-3 days exposure												
130	21563	<i>Daphnia magna</i>	7487947	0.006	LC50/ITX/INC/	<=6 h	LAB/S/C	2	241	7.8	22		14533
130	21564	<i>Daphnia magna</i>	7487947	0.006	LC50/ITX/INC/	<=24 h	LAB/S/C	2	241	7.8	22		14533
130	21565	<i>Daphnia magna</i>	7487947	0.007	LC50/ITX/INC/	>24 <=48 h	LAB/S/C	2	241	7.8	22		14533
130	21566	<i>Daphnia magna</i>	7487947	0.012	LC50/ITX/INC/	>72 <=96 h	LAB/S/C	2	241	7.8	22		14533
130	21567	<i>Daphnia magna</i>	7487947	0.017	LC50/ITX/INC/	>96 <=120 h	LAB/S/C	2	241	7.8	22		14533
130	21568	<i>Daphnia magna</i>	7487947	0.02	LC50/ITX/INC/	>196 <=216 h	LAB/S/C	2	241	7.8	22		14533
130	21579	<i>Daphnia magna</i>	7487947	0.006	LC50/ITX/INC/	<24 h	LAB/S/	2	185	7.75	21.5	unfed	18379
130	21580	<i>Daphnia magna</i>	7487947	0.012	LC50/ITX/INC/	<24 h	LAB/R/C	2	275	7.85	22	fed	18379
130	21630	<i>Daphnia magna</i>	7487947	0.001	NOEC/ITX/INC/NOSIG	<24 h	LAB/S/	2	185	7.75	21.5	unfed	18379

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
130	21639	<i>Daphnia obtusa</i>	7487947	0.0028	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	2	250	7.8	20		20191
130	21796	<i>Lymnaea acuminata</i>	7487947	0.055	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	2	375	7.5	27.5	water chem profile rptd	11099
130	21797	<i>Lymnaea acuminata</i>	7487947	0.025	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	3	375	7.5	27.5	water chem profile rptd	11099
130	21800	<i>Lymnaea acuminata</i>	7487947	0.4	LC50/MOR//		LAB/S/I	2	230	7.5	23		12901
130	21804	<i>Lymnaea luteola</i>	7487947	0.188	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	2	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
130	21835	<i>Moina dubia</i>	7487947	0.03	LC50/MOR//		LAB/S/I	2	230	7.5	23		12901
130	22243	<i>Tubifex tubifex</i>	7487947	0.1	LC50/MOR//		LAB/R/S	2	261	7.32	20	mg, po4, ca	8905
131	Invertebrates exposed to mercury in very hard water at >15degC over <=1 day exposure												
131	21578	<i>Daphnia magna</i>	7487947	0.014	LC50/ITX/INC/	<24 h	LAB/S/	1	185	7.75	21.5		18379
131	21638	<i>Daphnia obtusa</i>	7487947	0.004	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	1	250	7.8	20		20191
131	21795	<i>Lymnaea acuminata</i>	7487947	0.085	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	1	375	7.5	27.5	water chem profile rptd	11099
131	21799	<i>Lymnaea acuminata</i>	7487947	0.555	LC50/MOR//		LAB/S/I	1	230	7.5	23		12901
131	21802	<i>Lymnaea luteola</i>	7487947	0.376	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	0.5	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
131	21803	<i>Lymnaea luteola</i>	7487947	0.33	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	1	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
131	21834	<i>Moina dubia</i>	7487947	0.048	LC50/MOR//		LAB/S/I	1	230	7.5	23		12901
131	22242	<i>Tubifex tubifex</i>	7487947	0.11	LC50/MOR//		LAB/R/S	1	261	7.32	20	mg, po4, ca	8905
132	Non-arthropod invertebrates exposed to mercury in soft water at >15degC over 3-30 days exposure												
132	21051	<i>Amnicola</i>	7439976	2.1	LC50/MOR//	egg	LAB/S/I	4	50	7.6	17		2020
132	21053	<i>Amnicola</i>	7439976	0.08	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
132	21316	<i>Aplexa hypnorum</i>	7487947	0.273	LC50/MOR//	adult	LAB/S/I	4	50	7.3	25.1		10417
132	21117	<i>Dugesia tigrina</i>	7439976	0.27	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
132	21794	<i>Lumbriculus variegatus</i>	7487947	0.1	LC50/MOR/INC/		LAB/S/C	4	30	7.5	20		6502
132	21154	<i>Nais</i>	7439976	1	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
132	21976	<i>Philodina acuticornis</i>	7487947	0.8	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
132	21977	<i>Philodina acuticornis</i>	7487947	0.7	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
132	22261	<i>Viviparus bengalensis</i>	7487947	0.26	LC50/MOR//	26-28 mm, 2.5-3.5 g	LAB/R/I	4	52	7.45	25		5179
132	21163	<i>Zygoptera</i>	7439976	1.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
133	Non-arthropod invertebrates exposed to mercury in soft water at >15degC over <=1 day exposure												
133	21050	<i>Amnicola</i>	7439976	6.3	LC50/MOR//	egg	LAB/S/I	1	50	7.6	17		2020
133	21052	<i>Amnicola</i>	7439976	1.1	LC50/MOR//	adult	LAB/S/I	1	50	7.6	17		2020
133	22551	<i>Barytelphusa cunicularis</i>	7487947	0.1	/PHY//	mature, 115 g	LAB/S	0.26	6.4	7.2	22		6549
133	21346	<i>Brachionus calyciflorus</i>	7487947	0.026	LC50/MOR//	juvenile	LAB/S/S	1	36.2	7.3	20		3091
133	21153	<i>Nais</i>	7439976	1.9	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
133	21974	<i>Philodina acuticornis</i>	7487947	2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
133	21979	<i>Philodina acuticornis</i>	7487947	1	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
133	22149	<i>Spirostomum ambiguum</i>	7487947	0.0202	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
133	22151	<i>Spirostomum ambiguum</i>	7487947	0.0393	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
133	22236	<i>Tubifex tubifex</i>	7487947	0.083	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
133	22238	<i>Tubifex tubifex</i>	7487947	0.064	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	dilution h2o for bod without phosphate buffer, mg, po4, ca	8905
133	22240	<i>Tubifex tubifex</i>	7487947	0.11	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	dilution h2o for bod with phosphate buffer, mg, po4, ca	8905
133	22260	<i>Viviparus bengalensis</i>	7487947	0.42	LC50/MOR//	26-28 mm, 2.5-3.5 g	LAB/R/I	1	52	7.45	25		5179
133	21162	<i>Zygoptera</i>	7439976	3.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
134	Vertebrates exposed to mercury in moderately hard water at <15degC over 3-30 days exposure												
134	22952	<i>Oncorhynchus gorboscha</i>	7783359	0.22	LC50/MOR//	alevins, newly hatched	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
134	22953	<i>Oncorhynchus gorboscha</i>	7783359	0.14	LC50/MOR//	alevin	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
134	22954	<i>Oncorhynchus gorbuscha</i>	7783359	0.21	LC50/MOR//	alevin	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
134	22955	<i>Oncorhynchus gorbuscha</i>	7783359	0.14	LC50/MOR//	alevin	LAB/F/I	7	83.1	7.63	7.15	conductivity	8441
134	21853	<i>Oncorhynchus kisutch</i>	7487947	0.24	LC50/MOR/INC/	yearling	LAB/R/C	4	90	7.59	10		15034
134	21884	<i>Oncorhynchus mykiss</i>	7487947	0.005	LC50/MOR/INC/	eggs	LAB/R/C	28	104	7.4	13		5305
134	21889	<i>Oncorhynchus mykiss</i>	7487947	0.005	LC50/MOR//	eggs	LAB/R/S	28	99	7.5	12.5		6199
134	21894	<i>Oncorhynchus mykiss</i>	7487947	0.005	LC50/MOR//	egg	LAB/R/S	28	101	7.35	12.5		11838
134	21898	<i>Oncorhynchus mykiss</i>	7487947	0.42	LC50/MOR/INC/	18.59 cm fl, 76.35 g	LAB/F/C	4	112	7.8	14		6116
134	21903	<i>Oncorhynchus mykiss</i>	7487947	0.4	LC50/MOR//	fingerling, 9.1-15.5 g	LAB/F/S	4	90	7.65	5	ca, mg, na, fe, cl, so4, f, tds	2460
134	21905	<i>Oncorhynchus mykiss</i>	7487947	0.28	LC50/MOR//	fingerling, 13.2-21.3 g	LAB/F/S	4	90	7.65	10	ca, mg, na, fe, cl, so4, f, tds	2460
134	21929	<i>Oncorhynchus mykiss</i>	7487947	0.3	LT50/MOR//	egg, late-eyed stage	LAB/S/S	4.04	90	7.84	9.25		10229
134	21930	<i>Oncorhynchus mykiss</i>	7487947	1	LT50/MOR//	egg, late-eyed stage	LAB/S/S	4.25	90	7.84	9.25		10229
134	22428	<i>Oncorhynchus mykiss</i>	7487947	0.0002	/MOR/DEC/	fertilized eggs	LAB/F/C	4	103	7.6	13.5		10189
134	22779	<i>Oncorhynchus mykiss</i>	7487947	0.25	/PHY//	fingerling, 9.3 g	LAB/F/S	4	90	7.65	5	ka, mg, na, fe, cl, so4, f, tds	2460
134	22780	<i>Oncorhynchus mykiss</i>	7487947	0.19	/PHY//	fingerling, 17.2 g	LAB/F/S	4	90	7.65	10	ka, mg, na, fe, cl, so4, f, tds	2460
134	22801	<i>Oncorhynchus mykiss</i>	7487947	0.1	/MOR//	egg, late-eyed stage	LAB/S/S	7.6	90	7.84	9.25		10229
134	22802	<i>Oncorhynchus mykiss</i>	7487947	0.1	/MOR//	egg, late-eyed stage	LAB/S/S	7.6	90	7.84	9.25		10229
134	22803	<i>Oncorhynchus mykiss</i>	7487947	0.3	/MOR//	egg, late-eyed stage	LAB/S/S	7.6	90	7.84	9.25		10229
134	22804	<i>Oncorhynchus mykiss</i>	7487947	1	/MOR//	egg, late-eyed stage	LAB/S/S	7.6	90	7.84	9.25		10229
134	22956	<i>Oncorhynchus nerka</i>	7783359	0.22	LC50/MOR//	smolt, 5.5 g	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
134	22957	<i>Oncorhynchus nerka</i>	7783359	0.18	LC50/MOR//	smolt, 15.4 g	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
134	22958	<i>Oncorhynchus nerka</i>	7783359	0.28	LC50/MOR//	alevin, newly hatched	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
134	22959	<i>Oncorhynchus nerka</i>	7783359	0.31	LC50/MOR//	alevin	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
134	22960	<i>Oncorhynchus nerka</i>	7783359	0.28	LC50/MOR//	alevin	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
134	22961	<i>Oncorhynchus nerka</i>	7783359	0.3	LC50/MOR//	alevin	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
134	22962	<i>Oncorhynchus nerka</i>	7783359	0.18	LC50/MOR//	fry, 0.14 g	LAB/F/I	7	83.1	7.63	7.15	co2, organic c, so4, no3-n, no2-n, conductivity	8441
134	22266	<i>Xenopus laevis</i>	7487947	0.0002	LC50/MOR/INC/	egg	LAB/F/C	7	102	7.3	12.2	adults exposed	10189
135	Vertebrates exposed to mercury in moderately hard water at >15degC over 3-30 days exposure												
135	22515	<i>Actinopterygii</i>	7487947	4.975	/HIS/CHG/	fingerling, 15 g, 11 cm	LAB//	14	104	7.4	23		45153
135	21279	<i>Ambystoma opacum</i>	7487947	0.11	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
135	21458	<i>Cirrhinus mrigala</i>	7487947	0.2	LC50/MOR//	4.5 mm, 51.0 mg, 2 d larvae	LAB/S/I	4	72	7.3	23	tds	10575
135	21464	<i>Cirrhinus mrigala</i>	7487947	0.0097	MATC/MOR//	2 d larvae, 4.5 mm, 51.0 mg	LAB/S/I	4	72	7.3	23	tds	10575
135	21001	<i>Cyprinus carpio</i>	1600277	0.5	LC50/MOR/INC/	20 g	LAB/R/C	4	100	7.6	28		19133
135	21103	<i>Cyprinus carpio</i>	7439976	0.5	LC50/MOR/INC/	20 g	LAB//	4	100	7.6	28		17040
135	21183	<i>Cyprinus carpio</i>	7439976	0.1	/PHY/DEC/SIG	20 g	LAB//C	8	100	7.6	28		17040
135	21184	<i>Cyprinus carpio</i>	7439976	0.1	/ENZ/DEC/SIG	20 g	LAB//C	8	100	7.6	28		17040
135	21185	<i>Cyprinus carpio</i>	7439976	0.1	/ENZ/INC/	20 g	LAB//C	8	100	7.6	28		17040
135	21186	<i>Cyprinus carpio</i>	7439976	0.1	/BCM/INC/	20 g	LAB//C	8	100	7.6	28		17040
135	21523	<i>Cyprinus carpio</i>	7487947	4.425	LC50/MOR/INC/	fingerling, 15 g, 11 cm	LAB//	4	104	7.4	23		45153
135	22349	<i>Cyprinus carpio</i>	7487947	4.425	/MOR/INC/	fingerling, 15 g, 11 cm	LAB//	14	104	7.4	23		45153
135	21530	<i>Danio rerio</i>	7487947	0.002	LOEC/MOR/INC/SIG	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
135	21531	<i>Danio rerio</i>	7487947	0.016	LOEC/MOR/INC/SIG	egg, 2-4 h, blastula stage	LAB/R/C	6	100	7.6	25.9		3680
135	21532	<i>Danio rerio</i>	7487947	0.004	LOEC/MOR/INC/SIG	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
135	21533	<i>Danio rerio</i>	7487947	0.0014	MATC/MOR/INC/	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
135	21534	<i>Danio rerio</i>	7487947	0.0028	MATC/MOR/INC/	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
135	21535	<i>Danio rerio</i>	7487947	0.0028	MATC/MOR/DEC/	egg, 2-4 h, blastula stage	LAB/R/C	6	100	7.6	25.9		3680
135	21536	<i>Danio rerio</i>	7487947	0.013	MATC/MOR/INC/	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
135	21537	<i>Danio rerio</i>	7487947	0.002	MATC/MOR/INC/	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
135	21538	<i>Danio rerio</i>	7487947	0.001	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
135	21539	<i>Danio rerio</i>	7487947	0.0012	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
135	21540	<i>Danio rerio</i>	7487947	0.0011	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
135	21541	<i>Danio rerio</i>	7487947	0.002	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
135	21542	<i>Danio rerio</i>	7487947	0.01	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
135	21543	<i>Danio rerio</i>	7487947	0.0012	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/C	14	100	7.6	25.9		3680
135	21830	<i>Micropterus salmoides</i>	7487947	0.13	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
135	21907	<i>Oncorhynchus mykiss</i>	7487947	0.22	LC50/MOR//	fingerling, 18.5-24.9 g	LAB/F/S	4	90	7.65	20	ca, mg, na, fe, cl, so4, f, tds	2460
135	22781	<i>Oncorhynchus mykiss</i>	7487947	0.48	/PHY//	fingerling, 26.5 g	LAB/F/S	4	90	7.65	20	ka, mg, na, fe, cl, so4, f, tds	2460
135	22129	<i>Rana tigrina</i>	7487947	16.1	LC50/MOR/INC/		LAB/R/C	4	65	7.59	23		45137
135	22133	<i>Rana tigrina</i>	7487947	18.3	LC50/MOR/INC/		LAB/R/C	4	65	7.59	23		45137
135	22935	<i>Tilapia mossambica</i>	7487947	0.4	/PHY//	8.5 g	LAB/S/S	20	87	7.8	27.5	ammonia 0.28 ppm	13389
135	22187	<i>Tilapia nilotica</i>	7487947	5.525	LC50/MOR/INC/	fingerling, 15 g, 11 cm	LAB//	4	104	7.4	23		45153
135	22505	<i>Tilapia nilotica</i>	7487947	5.525	/MOR/INC/	fingerling, 15 g, 11 cm	LAB//	14	104	7.4	23		45153
136	Vertebrates exposed to mercury in soft water at >15degC over 3-30 days exposure												

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
136	21057	<i>Anguilla rostrata</i>	7439976	0.14	LC50/MOR//		LAB/S/I	4	55	8	28		2002
136	21468	<i>Clarias batrachus</i>	7487947	0.38	LC50/MOR//	adult male, female, 60 g	LAB/R/S	4	23.2	7.3	20		12890
136	21109	<i>Cyprinus carpio</i>	7439976	0.18	LC50/MOR//		LAB/S/I	4	55	8	28		2002
136	21712	<i>Gambusia affinis</i>	7487947	0.18	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/S	4	31.53	7.52	27.1	conductivity 475 uohm, free cl-nil, acidity 3.78 ppm	568
136	22718	<i>Heteropneustes fossilis</i>	7487947	0.03	/HIS/CHG/	16 cm, 34 g	LAB/R/S	25	23.24	7.3	22	tap water	13482
136	22721	<i>Heteropneustes fossilis</i>	7487947	0.03	/HIS/CHG/	16-18 cm, 35-40 g	LAB/R/C	25	23.24	7.3	22	tap water	14672
136	21146	<i>Lepomis gibbosus</i>	7439976	0.3	LC50/MOR//		LAB/S/I	4	55	8	28		2002
136	21780	<i>Lepomis macrochirus</i>	7487947	0.118	LC50/MOR/INC/	0.6 g	LAB/S/I	4	45.6	7.2	24.8		10417
136	21820	<i>Microhyla ornata</i>	7487947	0.1264	LC50/MOR//	eggs	LAB/S/I	4	54	7.1	23		9810
136	21821	<i>Microhyla ornata</i>	7487947	0.0878	LC50/MOR//	tadpole, 8-10 d	LAB/S/I	4	54	7.1	23		9810
136	21149	<i>Morone americana</i>	7439976	0.22	LC50/MOR//		LAB/S/I	4	55	8	28		2002
136	21152	<i>Morone saxatilis</i>	7439976	0.09	LC50/MOR//		LAB/S/I	4	55	8	28		2002
136	22774	<i>Oncorhynchus mykiss</i>	7487947	0.1	/MOR//		LAB//S	4	46	6.6	16		5302
136	22775	<i>Oncorhynchus mykiss</i>	7487947	0.01	/MOR//		LAB//S	4	46	6.6	16		5302
136	21004	<i>Pimephales promelas</i>	1600277	0.119	LC50/MOR//	3.2-4.2 cm	LAB/S/S	4	44	7.55	22	conductivity 120-160 uohm	875
136	21007	<i>Pimephales promelas</i>	1600277	0.12	LC50/MOR//		LAB/S/I	4	44	7.4	22	conductivity 120-160 umhoscm	5735
136	21008	<i>Pimephales promelas</i>	1600277	0.04	LC50/MOR//		LAB/S/I	4	44	7.4	22	conductivity 120-160 umhoscm	5735
136	21009	<i>Pimephales promelas</i>	1600277	0.12	LC50/MOR//	0.3-1 g	LAB/S/S	4	44	7.55	22	conductivity 120-160 uscm	2965
136	21999	<i>Pimephales promelas</i>	7487947	0.168	LC50/MOR//	juvenile, 3 mo	LAB/F/I	4	45.7	7.35	23.5	acidity 3.1 ppm	15318
136	22000	<i>Pimephales promelas</i>	7487947	0.112	LC50/MOR//	juvenile, 3 mo	LAB/F/I	5	45.7	7.35	23.5	acidity 3.1 ppm	15318
136	22001	<i>Pimephales promelas</i>	7487947	0.084	LC50/MOR//	juvenile, 3 mo	LAB/F/I	6	45.7	7.35	23.5	acidity 3.1 ppm	15318
136	22002	<i>Pimephales promelas</i>	7487947	0.074	LC50/MOR//	juvenile, 3 mo	LAB/F/I	7	45.7	7.35	23.5	acidity 3.1 ppm	15318
136	22007	<i>Pimephales promelas</i>	7487947	0.15	LC50/MOR//	30-32 d, 20.0 mm, 0.098 g	LAB/F/I	4	42.8	7.6	25.7	acidity	10579

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
136	22010	<i>Pimephales promelas</i>	7487947	0.155	LC50/MOR/INC/	30 d, 20.0 mm, 0.098 g	LAB//C	4	51	7.6	25.6		16044
136	22864	<i>Pimephales promelas</i>	7487947	0.01	/MOR//		LAB//S	4	46	6.5	18		5302
136	22865	<i>Pimephales promelas</i>	7487947	0.1	/MOR//		LAB//S	4	46	6.5	18		5302
136	22873	<i>Pimephales promelas</i>	7487947	0.0037	/MOR//	larvae, 4-6 d	LAB/F/S	30	45.7	7.35	24.5	acidity 3.1 mg/l	15318
136	22878	<i>Pimephales promelas</i>	7487947	0.0006	/GRO//	larvae, 4-6 d	LAB/F/S	30	45.7	7.35	24.5	acidity 3.1 mg/l	15318
136	22881	<i>Pimephales promelas</i>	7487947	0.0005	/GRO//	larvae, 4-6 d	LAB/F/S	30	45.7	7.35	24.5	acidity 3.1 mg/l	15318
136	22882	<i>Pimephales promelas</i>	7487947	0.0003	/GRO//	larvae, 4-6 d	LAB/F/S	30	45.7	7.35	24.5	acidity 3.1 mg/l	15318
136	22883	<i>Pimephales promelas</i>	7487947	0.0045	/MOR//	larvae, 4-6 d	LAB/F/S	30	45.7	7.35	24.5	acidity 3.1 mg/l	15318
136	22885	<i>Pimephales promelas</i>	7487947	0.0024	/MOR//	larvae, 4-6 d	LAB/F/S	30	45.7	7.35	24.5	acidity 3.1 mg/l	15318
136	22887	<i>Pimephales promelas</i>	7487947	0.0013	/GRO//	larvae, 4-6 d	LAB/F/S	30	45.7	7.35	24.5	acidity 3.1 mg/l	15318
136	23008	<i>Pimephales promelas</i>	10045940	0.172	LC50/MOR//	30 d, 0.15 g	LAB/F/I	4	43.9	7.4	25		12093
137	Vertebrates exposed to mercury in soft water at >15degC over 1-3 days exposure												
137	21056	<i>Anguilla rostrata</i>	7439976	0.19	LC50/MOR//		LAB/S/I	2	55	8	28		2002
137	21465	<i>Clarias batrachus</i>	7487947	0.51	LC50/MOR//	adult male, female, 60 g	LAB/R/S	3	23.2	7.3	20		12890
137	21467	<i>Clarias batrachus</i>	7487947	0.69	LC50/MOR//	adult male, female, 60 g	LAB/R/S	2	23.2	7.3	20		12890
137	21108	<i>Cyprinus carpio</i>	7439976	0.21	LC50/MOR//		LAB/S/I	2	55	8	28		2002
137	21710	<i>Gambusia affinis</i>	7487947	0.56	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/S	2	31.53	7.52	27.1	conductivity 475 uohm, free cl-nil, acidity 3.78 ppm	568
137	21711	<i>Gambusia affinis</i>	7487947	0.41	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/S	3	31.53	7.52	27.1	conductivity 475 uohm, free cl-nil, acidity 3.78 ppm	568
137	21145	<i>Lepomis gibbosus</i>	7439976	0.39	LC50/MOR//		LAB/S/I	2	55	8	28		2002
137	21778	<i>Lepomis macrochirus</i>	7487947	0.185	LC50/MOR/INC/	0.6 g	LAB/S/I	2	45.6	7.2	24.8		10417
137	21779	<i>Lepomis macrochirus</i>	7487947	0.118	LC50/MOR/INC/	0.6 g	LAB/S/I	3	45.6	7.2	24.8		10417

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
137	21148	<i>Morone americana</i>	7439976	0.34	LC50/MOR//		LAB/S/I	2	55	8	28		2002
137	21151	<i>Morone saxatilis</i>	7439976	0.14	LC50/MOR//		LAB/S/I	2	55	8	28		2002
137	21003	<i>Pimephales promelas</i>	1600277	0.263	LC50/MOR//	3.2-4.2 cm	LAB/S/S	2	44	7.55	22	conductivity 120-160 uohm	875
137	21006	<i>Pimephales promelas</i>	1600277	0.26	LC50/MOR//		LAB/S/I	2	44	7.4	22	conductivity 120-160 umhoscm	5735
137	22005	<i>Pimephales promelas</i>	7487947	0.196	LC50/MOR//	30-32 d, 20.0 mm, 0.098 g	LAB/F/I	2	42.8	7.6	25.7	acidity	10579
137	22006	<i>Pimephales promelas</i>	7487947	0.155	LC50/MOR//	30-32 d, 20.0 mm, 0.098 g	LAB/F/I	3	42.8	7.6	25.7	acidity	10579
137	22011	<i>Pimephales promelas</i>	7487947	0.01	LT50/MOR//		LAB//S	2.81	46	6.5	24		5302
137	22012	<i>Pimephales promelas</i>	7487947	0.1	LT50/MOR//		LAB//S	2.89	46	6.5	24		5302
137	22185	<i>Tilapia mossambica</i>	7487947	1.1	LC50/MOR//		LAB/S/I	2	35	7.15	30		10499
138	Vertebrates exposed to mercury in soft water at >15degC over <=1 day exposure												
138	21055	<i>Anguilla rostrata</i>	7439976	0.25	LC50/MOR//		LAB/S/I	1	55	8	28		2002
138	22547	<i>Barbus holubi</i>	7487947	0.005	/PHY//		LAB/F/I	1	60	7	22		5462
138	21466	<i>Clarias batrachus</i>	7487947	0.93	LC50/MOR//	adult male, female, 60 g	LAB/R/S	1	23.2	7.3	20		12890
138	21107	<i>Cyprinus carpio</i>	7439976	0.33	LC50/MOR//		LAB/S/I	1	55	8	28		2002
138	21709	<i>Gambusia affinis</i>	7487947	0.65	LC50/MOR//	females, 3.8-5.1 cm, 0.68-0.81 g	LAB/S/S	1	31.53	7.52	27.1	conductivity 475 uohm, free cl-nil, acidity 3.78 ppm	568
138	21144	<i>Lepomis gibbosus</i>	7439976	0.41	LC50/MOR//		LAB/S/I	1	55	8	28		2002
138	21777	<i>Lepomis macrochirus</i>	7487947	0.207	LC50/MOR/INC/	0.6 g	LAB/S/I	1	45.6	7.2	24.8		10417
138	22755	<i>Micropterus salmoides</i>	7487947	0.01	/PHY//		LAB/F/I	1	60	7	22		5462
138	21147	<i>Morone americana</i>	7439976	0.42	LC50/MOR//		LAB/S/I	1	55	8	28		2002
138	21150	<i>Morone saxatilis</i>	7439976	0.22	LC50/MOR//		LAB/S/I	1	55	8	28		2002
138	21918	<i>Oncorhynchus mykiss</i>	7487947	10	LT50/MOR//		LAB//S	0.02	46	6.6	16		5302
138	21919	<i>Oncorhynchus mykiss</i>	7487947	1	LT50/MOR//		LAB//S	0.52	46	6.6	16		5302
138	21948	<i>Oryzias latipes</i>	7487947	1.4	LC50/MOR//	adult, 2.37-2.82 cm, 0.24-0.47 g	LAB/S/I	1	32	7.8	25		8298
138	22852	<i>Oryzias latipes</i>	7487947	0.505	/MOR//	fry, 8 d	LAB/S/S	1	10.5	6.9	25		12151

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
138	21002	<i>Pimephales promelas</i>	1600277	0.332	LC50/MOR//	3.2-4.2 cm	LAB/S/S	1	44	7.55	22	conductivity 120-160 uohm	875
138	21005	<i>Pimephales promelas</i>	1600277	0.33	LC50/MOR//		LAB/S/I	1	44	7.4	22	conductivity 120-160 umhoscm	5735
138	22004	<i>Pimephales promelas</i>	7487947	0.24	LC50/MOR//	30-32 d, 20.0 mm, 0.098 g	LAB/F/I	1	42.8	7.6	25.7	acidity	10579
138	22013	<i>Pimephales promelas</i>	7487947	1	LT50/MOR//		LAB//S	0.12	46	6.5	24		5302
138	22014	<i>Pimephales promelas</i>	7487947	10	LT50/MOR//		LAB//S	0.03	46	6.5	24		5302
138	22015	<i>Pimephales promelas</i>	7487947	1	LT50/MOR//		LAB//S	0.28	46	6.5	18		5302
138	22016	<i>Pimephales promelas</i>	7487947	10	LT50/MOR//		LAB//S	0.05	46	6.5	18		5302
138	22923	<i>Tilapia mossambica</i>	7487947	0.07	/HIS//	15 g	LAB/S/S	1	35	7.15	30		10499
139	Vertebrates exposed to mercury in very hard water at >15degC over 3-30 days exposure												
139	21337	<i>Barbus sophero</i>	7487947	0.065	LC50/MOR//	1.8(1.56-2.30) g, 50(40-60) mm	LAB/R/S	10	250	7.3	25.5	conductivity 980 (800-1050) uscm	10029
139	21338	<i>Barbus sophero</i>	7487947	0.145	LC50/MOR//	1.8(1.56-2.30) g, 50(40-60) mm	LAB/R/S	4	250	7.3	25.5	conductivity 980 (800-1050) uscm	10029
139	21365	<i>Bufo melanostictus</i>	7487947	0.185	LC50/MOR//	1 wk, tadpole	LAB/S/I	4	230	7.5	23		12901
139	21392	<i>Carassius auratus</i>	7487947	0.12	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
139	21412	<i>Channa marulius</i>	7487947	0.314	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/R/S	4	270	7.35	26		10721
139	21413	<i>Channa marulius</i>	7487947	0.131	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/R/S	10	270	7.35	26		10721
139	22298	<i>Channa punctata</i>	7487947	0.085	/MOR/INC/MULT	female, 1+ age, 18.89 g	LAB//S	23	196	7.65	27		4257
139	22299	<i>Channa punctata</i>	7487947	0.085	/BCM/CHG/MULT	female, 1+ age, 18.89 g	LAB//S	23	196	7.65	27		4257
139	22606	<i>Channa punctata</i>	7487947	0.025	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	30	196	7.7	27.25		11619
139	22608	<i>Channa punctata</i>	7487947	0.05	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	7	196	7.7	27.25		11619
139	22609	<i>Channa punctata</i>	7487947	0.05	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	15	196	7.7	27.25		11619
139	22610	<i>Channa punctata</i>	7487947	0.05	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	30	196	7.7	27.25		11619
139	22613	<i>Channa punctata</i>	7487947	0.075	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	4	196	7.7	27.25		11619
139	22614	<i>Channa punctata</i>	7487947	0.075	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	7	196	7.7	27.25		11619

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
139	22615	<i>Channa punctata</i>	7487947	0.075	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	15	196	7.7	27.25		11619
139	22616	<i>Channa punctata</i>	7487947	0.075	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	30	196	7.2	27.25		11619
139	22618	<i>Channa punctata</i>	7487947	0.101	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	4	196	7.2	27.25		11619
139	22619	<i>Channa punctata</i>	7487947	0.101	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	7	196	7.2	27.25		11619
139	22620	<i>Channa punctata</i>	7487947	0.101	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	15	196	7.2	27.25		11619
139	22621	<i>Channa punctata</i>	7487947	0.101	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	30	196	7.2	27.25		11619
139	21521	<i>Cyprinus carpio</i>	7487947	0.305	LC50/MOR/INC/	fertilized eggs	LAB/S/C	4	274	7.725	24		45108
139	21522	<i>Cyprinus carpio</i>	7487947	0.072	LC50/MOR/INC/	larvae, 7 d, 1.0 cm	LAB/S/C	4	274	7.725	24		45108
139	22347	<i>Cyprinus carpio</i>	7487947	0.159	/MOR/DEC/	fry, 30 d, 2.5 cm	LAB/S/C	4	274	7.725	24		45108
139	21715	<i>Gambusia affinis</i>	7487947	0.17	LC50/MOR//	240 mg	LAB/S/I	4	230	7.5	23		12901
139	21722	<i>Gastrophryne carolinensis</i>	7487947	0.001	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
139	21724	<i>Gila elegans</i>	7487947	0.061	LC50/MOR/INC/	larva, 4 d, 7 mm, 2 mg	LAB/S/C	4	199	8	25		18325
139	21725	<i>Gila elegans</i>	7487947	0.108	LC50/MOR/INC/	juvenile, 100 d, 39 mm, 378 mg	LAB/S/C	4	199	8	25		18325
139	22716	<i>Heteropneustes fossilis</i>	7487947	0.55	/HIS//	21.2 g	LAB//S	7.75	186	7.2	24		9650
139	21886	<i>Oncorhynchus mykiss</i>	7487947	0.016	LC50/MOR//	12-16 cm	LAB/F/I	4	300	7.35	15.3		978
139	21887	<i>Oncorhynchus mykiss</i>	7487947	0.014	LC50/MOR//	12-16 cm	LAB/F/S	14	300	7.35	15.3		978
139	21888	<i>Oncorhynchus mykiss</i>	7487947	0.013	LC50/MOR//	12-16 cm	LAB/F/S	14	300	7.35	15.3		978
139	22079	<i>Ptychocheilus lucius</i>	7487947	0.057	LC50/MOR/INC/	larva, 8 d, 9 mm, 4 mg	LAB/S/C	4	199	8	25		18325
139	22080	<i>Ptychocheilus lucius</i>	7487947	0.168	LC50/MOR/INC/	juvenile, 155 d, 43 mm, 499 mg	LAB/S/C	4	199	8	25		18325
139	22119	<i>Rana breviceps</i>	7487947	0.2	LC50/MOR//	1 wk, tadpole	LAB/S/I	4	230	7.5	23		12901
139	22122	<i>Rana heckscheri</i>	7487947	0.68	LC50/MOR//	tadpole, stage 27	LAB/S/S	4	351.3	7.23	21	conductivity 721 umhos/cm, ammonia 0.37 mg/l	8079

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
139	22909	<i>Rana heckscheri</i>	7487947	1.5	/DVP//	tadpole, stage 22-35	LAB/S/S	17.5	351.3	7.23	21	conductivity 721 umhoscm, ammonia 0.37 mg/l	8079
139	22267	<i>Xyrauchen texanus</i>	7487947	0.128	LC50/MOR/INC/	larva, 6 d, 11 mm, 3 mg	LAB/S/C	4	199	8	25		18325
139	22268	<i>Xyrauchen texanus</i>	7487947	0.09	LC50/MOR/INC/	juvenile, 109 d, 34 mm, 394 mg	LAB/S/C	4	199	8	25		18325
140	Vertebrates exposed to mercury in very hard water at >15degC over 1-3 days exposure												
140	21340	<i>Barbus sophero</i>	7487947	0.165	LC50/MOR//	1.8(1.56-2.30) g, 50(40-60) mm	LAB/R/S	2	250	7.3	25.5	conductivity 980 (800-1050) uscm	10029
140	21364	<i>Bufo melanostictus</i>	7487947	0.24	LC50/MOR//	1 wk, tadpole	LAB/S/I	2	230	7.5	23		12901
140	21411	<i>Channa marulius</i>	7487947	0.432	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/R/S	3	270	7.35	26		10721
140	22348	<i>Cyprinus carpio</i>	7487947	0.2501	/MOR/DEC/	fertilized eggs	LAB/S/C	2	274	7.725	24		45108
140	22672	<i>Cyprinus carpio</i>	7487947	0.2501	/DVP/INC/	fertilized eggs	LAB/S/C	2	274	7.725	24		45108
140	21714	<i>Gambusia affinis</i>	7487947	0.25	LC50/MOR//	240 mg	LAB/S/I	2	230	7.5	23		12901
140	22118	<i>Rana breviceps</i>	7487947	0.33	LC50/MOR//	1 wk, tadpole	LAB/S/I	2	230	7.5	23		12901
141	Vertebrates exposed to mercury in very hard water at >15degC over <=1 day exposure												
141	21339	<i>Barbus sophero</i>	7487947	0.398	LC50/MOR//	1.8(1.56-2.30) g, 50(40-60) mm	LAB/R/S	0.5	250	7.3	25.5	conductivity 980 (800-1050) ussm	10029
141	21341	<i>Barbus sophero</i>	7487947	0.241	LC50/MOR//	1.8(1.56-2.30) g, 50(40-60) mm	LAB/R/S	1	250	7.3	25.5	conductivity 980 (800-1050) uscm	10029
141	22548	<i>Barbus sophero</i>	7487947	0.3	/HIS//	1.8(1.56-2.30) g, 50(40-60) mm	LAB/R/S	0.58	250	7.3	25.5	conductivity 980 (800-1050) uscm	10029
141	21363	<i>Bufo melanostictus</i>	7487947	0.355	LC50/MOR//	1 wk, tadpole	LAB/S/I	1	230	7.5	23		12901
141	21409	<i>Channa marulius</i>	7487947	0.941	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/S/S	0.5	270	7.35	26		10721
141	21410	<i>Channa marulius</i>	7487947	0.86	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/S/S	1	270	7.35	26		10721
141	22612	<i>Channa punctata</i>	7487947	0.075	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	1	196	7.7	27.25		11619
141	22617	<i>Channa punctata</i>	7487947	0.101	/MOR//	18.89 g, 130.5 mm, 1 yr	LAB/R/S	1	196	7.2	27.25		11619
141	21713	<i>Gambusia affinis</i>	7487947	0.4	LC50/MOR//	240 mg	LAB/S/I	1	230	7.5	23		12901
141	21885	<i>Oncorhynchus mykiss</i>	7487947	0.036	LC50/MOR//	12-16 cm	LAB/F/I	1	300	7.35	15.3		978
141	22117	<i>Rana breviceps</i>	7487947	0.48	LC50/MOR//	1 wk, tadpole	LAB/S/I	1	230	7.5	23		12901
141	22121	<i>Rana heckscheri</i>	7487947	1.43	LC50/MOR//	eggs	LAB/S/S	0.13	351.3	7.23	21	conductivity 721 umhoscm, ammonia 0.37 mg/l	8079

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
141	22479	<i>Rana heckscheri</i>	7487947	5	NR-LETH/MOR//	egg and sperm	LAB/S/S	0.13	351.3	7.23	21	conductivity 721 umhos/cm, ammonia 0.37 mg/l	8079
141	22908	<i>Rana heckscheri</i>	7487947	1.5	/REP//	egg and sperm	LAB/S/S	0.13	351.3	7.23	21	conductivity 721 umhos/cm, ammonia 0.37 mg/l	8079
142	Invertebrates exposed to nickel in moderately hard water at >15degC over <=1 day exposure												
142	23432	<i>Colpidium colpoda</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
142	23471	<i>Daphnia magna</i>	7718549	2.716	LC50/MOR//	24 h	LAB/S/I	1	70	7.65	21		5718
142	23490	<i>Dexiostoma campyla</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
142	23496	<i>Euplotes moebiusi</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
142	23497	<i>Euplotes patella</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
142	23501	<i>Glaucoma scintillans</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
142	23504	<i>Holosticha kessleri</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
142	23529	<i>Loxodes striatus</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
142	23579	<i>Paramecium bursaria</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
142	23580	<i>Paramecium caudatum</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
142	23581	<i>Paramecium putrinum</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
142	23635	<i>Spirostomum teres</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
142	23636	<i>Stylonychia pustulata</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20		51792
143	Invertebrates exposed to nickel in soft water at >15degC over 3-30 days exposure												
143	23235	<i>Amnicola</i>	7440020	11.4	LC50/MOR//	eggs	LAB/S/I	4	50	7.6	17		2020
143	23236	<i>Amnicola</i>	7440020	21.2	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
143	23237	<i>Amnicola</i>	7440020	14.3	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
143	23246	<i>Chironomus</i>	7440020	8.6	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
143	23465	<i>Daphnia magna</i>	7718549	0.13	LC50/ITX//	12 h	LAB/R/I	21	45.3	7.74	18		2022
143	23468	<i>Daphnia magna</i>	7718549	0.095	EC50/REP//	12 h	LAB/R/I	21	45.3	7.74	18		2022
143	23275	<i>Dugesia tigrina</i>	7440020	16.8	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
143	23865	<i>Dugesia tigrina</i>	7786814	2.55	LC50/MOR//		LAB/S/I	4	40	7.5	23	see paper	6154
143	23289	<i>Gammarus</i>	7440020	13	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
143	23305	<i>Nais</i>	7440020	14.1	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
143	23584	<i>Philodina acuticornis</i>	7718549	2.9	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
143	23585	<i>Philodina acuticornis</i>	7718549	2.6	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
143	23919	<i>Philodina acuticornis</i>	7786814	7.4	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
143	23920	<i>Philodina acuticornis</i>	7786814	7.2	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
143	23318	<i>Trichoptera</i>	7440020	30.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
143	23320	<i>Zygoptera</i>	7440020	21.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
144	Invertebrates exposed to nickel in soft water at >15degC over 1-3 days exposure												
144	23466	<i>Daphnia magna</i>	7718549	0.51	LC50/ITX//	12 h	LAB/S/I	2	45.3	7.74	18		2022
144	23467	<i>Daphnia magna</i>	7718549	1.12	LC50/ITX//	12 h	LAB/S/I	2	45.3	7.74	18		2022
144	23476	<i>Daphnia magna</i>	7718549	1.8	LC50/MOR//	<1 d	LAB/S/I	2	51	7.7	19.2	water parameters rptd	3621
144	23261	<i>Daphnia pulicaria</i>	7440020	0.697	LC50/MOR//		LAB/S/I	2	29	6.77	18		5081
144	23262	<i>Daphnia pulicaria</i>	7440020	1.14	LC50/MOR//		LAB/S/I	2	28	7.23	18		5081
144	23263	<i>Daphnia pulicaria</i>	7440020	1.034	LC50/MOR//		LAB/S/I	2	28	7.36	18		5081
144	23864	<i>Dugesia tigrina</i>	7786814	3.3	LC50/MOR//		LAB/S/I	2	40	7.5	23	see paper	6154
144	23583	<i>Philodina acuticornis</i>	7718549	4	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
144	23586	<i>Philodina acuticornis</i>	7718549	4.1	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
144	23918	<i>Philodina acuticornis</i>	7786814	7.2	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
144	23921	<i>Philodina acuticornis</i>	7786814	7.1	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
144	23943	<i>Spirostomum ambiguum</i>	7786814	0.728	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
144	23945	<i>Spirostomum ambiguum</i>	7786814	0.747	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
144	23946	<i>Tubifex tubifex</i>	7786814	7	LC50/MOR//		LAB/R/S	2	34.2	7.2	20	dilution h2o for bod with phosphate buffer, mg, po4 & ca	8905
144	23950	<i>Tubifex tubifex</i>	7786814	0.082	LC50/MOR//		LAB/R/S	2	0.1	6.3	20		8905
144	23952	<i>Tubifex tubifex</i>	7786814	8.7	LC50/MOR//		LAB/R/S	2	34.2	6.85	20	mg, po4 and ca, dilution h2o for bod without po4 buffer	8905
145	Invertebrates exposed to nickel in soft water at >15degC over <=1 day exposure												
145	23234	<i>Amnicola</i>	7440020	26	LC50/MOR//	eggs	LAB/S/I	1	50	7.6	17		2020

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
145	23245	<i>Chironomus</i>	7440020	10.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
145	23863	<i>Dugesia tigrina</i>	7786814	7.7	LC50/MOR//		LAB/S/I	1	40	7.5	23	see paper	6154
145	23288	<i>Gammarus</i>	7440020	15.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
145	23304	<i>Nais</i>	7440020	16.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
145	23582	<i>Philodina acuticornis</i>	7718549	7.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
145	23587	<i>Philodina acuticornis</i>	7718549	7.6	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
145	23917	<i>Philodina acuticornis</i>	7786814	7.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
145	23922	<i>Philodina acuticornis</i>	7786814	7.1	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
145	23942	<i>Spirostomum ambiguum</i>	7786814	0.747	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
145	23944	<i>Spirostomum ambiguum</i>	7786814	0.756	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
145	23317	<i>Trichoptera</i>	7440020	48.4	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
145	23949	<i>Tubifex tubifex</i>	7786814	0.12	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
145	23951	<i>Tubifex tubifex</i>	7786814	33.4	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	mg, po4 and ca, dilution h2o for bod without po4 buffer	8905
145	23953	<i>Tubifex tubifex</i>	7786814	21.6	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	mg, po4 and ca, dilution h2o for bod with phosphate buffer	8905
145	23319	<i>Zygoptera</i>	7440020	26.4	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
146	Invertebrates exposed to nickel in very hard water at >15degC over 3-30 days exposure												
146	23484	<i>Daphnia magna</i>	7718549	2	LC50/MOR//		LAB//I	4	190	7.7	21		323
146	23485	<i>Daphnia magna</i>	7718549	1.3	LC50/MOR//		LAB//I	5	190	7.7	21		323
146	23861	<i>Daphnia magna</i>	7786814	3.3	LC50/MOR//		LAB//I	4	190	7.7	21		323
146	23862	<i>Daphnia magna</i>	7786814	2.1	LC50/MOR//		LAB//I	5	190	7.7	21		323
146	23505	<i>Hyalella azteca</i>	7718549	2	LC50/MOR//	7-14 d	LAB//I	4	290	6.695	25		7289
146	23506	<i>Hyalella azteca</i>	7718549	1.9	LC50/MOR//	7-14 d	LAB//I	4	290	7.45	25		7289
146	23532	<i>Lumbriculus variegatus</i>	7718549	100	LC50/MOR//	mixed age adults	LAB//I	4	290	6.555	25		7289
146	23533	<i>Lumbriculus variegatus</i>	7718549	75	LC50/MOR//	mixed age adults	LAB//I	4	290	7.365	25		7289
146	23873	<i>Lymnaea acuminata</i>	7786814	2.78	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	4	375	7.5	27.5	water chem profile rptd	11099

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
146	23643	<i>Tubifex tubifex</i>	7718549	66.75	LC50/ITX/INC/	LAB/R/I	4	245	7.6	30		2918
147	Non-arthropod invertebrates exposed to nickel in moderately hard water at >15degC over <=1 day exposure											
147	23432	<i>Colpidium colpoda</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
147	23490	<i>Dexiostoma campyla</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
147	23496	<i>Euplotes moebiusi</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
147	23497	<i>Euplotes patella</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
147	23501	<i>Glaucoma scintillans</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
147	23504	<i>Holosticha kessleri</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
147	23529	<i>Loxodes striatus</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
147	23579	<i>Paramecium bursaria</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
147	23580	<i>Paramecium caudatum</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
147	23581	<i>Paramecium putrinum</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
147	23635	<i>Spirostomum teres</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
147	23636	<i>Stylonychia pustulata</i>	7718549	0	LC50/MOR/INC/	log gro phase	LAB/S/C	1	103	7.3	20	51792
148	Non-arthropod invertebrates exposed to nickel in soft water at >15degC over 3-30 days exposure											
148	23235	<i>Amnicola</i>	7440020	11.4	LC50/MOR//	eggs	LAB/S/I	4	50	7.6	17	2020
148	23236	<i>Amnicola</i>	7440020	21.2	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17	2020
148	23237	<i>Amnicola</i>	7440020	14.3	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17	2020
148	23275	<i>Dugesia tigrina</i>	7440020	16.8	LC50/MOR//		LAB/S/I	4	50	7.6	20	8709
148	23865	<i>Dugesia tigrina</i>	7786814	2.55	LC50/MOR//		LAB/S/I	4	40	7.5	23	see paper 6154
148	23305	<i>Nais</i>	7440020	14.1	LC50/MOR//		LAB/S/I	4	50	7.6	17	2020
148	23584	<i>Philodina acuticornis</i>	7718549	2.9	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20	2019
148	23585	<i>Philodina acuticornis</i>	7718549	2.6	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20	2019
148	23919	<i>Philodina acuticornis</i>	7786814	7.4	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20	2019
148	23920	<i>Philodina acuticornis</i>	7786814	7.2	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20	2019
148	23320	<i>Zygoptera</i>	7440020	21.2	LC50/MOR//		LAB/S/I	4	50	7.6	17	2020
149	Non-arthropod invertebrates exposed to nickel in soft water at >15degC over <=1 day exposure											
149	23234	<i>Amnicola</i>	7440020	26	LC50/MOR//	eggs	LAB/S/I	1	50	7.6	17	2020
149	23863	<i>Dugesia tigrina</i>	7786814	7.7	LC50/MOR//		LAB/S/I	1	40	7.5	23	see paper 6154

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
149	23304	<i>Nais</i>	7440020	16.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
149	23582	<i>Philodina acuticornis</i>	7718549	7.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
149	23587	<i>Philodina acuticornis</i>	7718549	7.6	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
149	23917	<i>Philodina acuticornis</i>	7786814	7.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
149	23922	<i>Philodina acuticornis</i>	7786814	7.1	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
149	23942	<i>Spirostomum ambiguum</i>	7786814	0.747	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
149	23944	<i>Spirostomum ambiguum</i>	7786814	0.756	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
149	23949	<i>Tubifex tubifex</i>	7786814	0.12	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
149	23951	<i>Tubifex tubifex</i>	7786814	33.4	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	mg, po4 and ca, dilution h2o for bod without po4 buffer	8905
149	23953	<i>Tubifex tubifex</i>	7786814	21.6	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	mg, po4 and ca, dilution h2o for bod with phosphate buffer	8905
149	23319	<i>Zygoptera</i>	7440020	26.4	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
150	Vertebrates exposed to nickel in moderately hard water at >15degC over 3-30 days exposure												
150	23393	<i>Ambystoma opacum</i>	7718549	0.42	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
150	23790	<i>Colisa fasciata</i>	7786814	23	LC50/MOR//	4.36 g, adult female	LAB/S/I	4	120	7.3	25	conductivity 55 umhocm	15705
150	23996	<i>Colisa fasciata</i>	7786814	17	/MOR//	4.36 g, adult female	LAB/S/I	3.75	120	7.3	25	conductivity 55 umhocm	15705
150	23997	<i>Colisa fasciata</i>	7786814	17	/BCM//	4.36 g, adult female	LAB/S/S	3.75	120	7.3	25	conductivity 55 umhocm	15705
150	23450	<i>Cyprinus carpio</i>	7718549	16	LC50/MOR//	4-5cm	LAB/R/S	4	112	7.5	27	carbonates,bicarbonates,sulphates,phosphates,chlorides,nitr	2077
150	23813	<i>Danio rerio</i>	7786814	0.045	MATC/MOR/INC/	egg, 2-4 h, blastula stage	LAB/R/S	14	100	7.6	25.9		3680
150	23814	<i>Danio rerio</i>	7786814	0.36	MATC/MOR/INC/	egg, 2-4 h, blastula stage	LAB/R/S	14	100	7.6	25.9		3680
150	23815	<i>Danio rerio</i>	7786814	0.04	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/S	8	100	7.6	25.9		3680

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
150	23816	<i>Danio rerio</i>	7786814	0.08	NOEC/MOR/INC/NOSIG	egg, 2-4 h, blastula stage	LAB/R/S	14	100	7.6	25.9		3680
150	23539	<i>Micropterus salmoides</i>	7718549	2.02	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
150	23313	<i>Pimephales promelas</i>	7440020	12.356	LC50/MOR//		LAB/F/I	4	77	6.99	25		5081
150	23314	<i>Pimephales promelas</i>	7440020	17.678	LC50/MOR//		LAB/F/I	4	89	7.09	25		5081
150	23315	<i>Pimephales promelas</i>	7440020	8.617	LC50/MOR//		LAB/F/I	4	91	7.04	25		5081
150	23316	<i>Pimephales promelas</i>	7440020	5.383	LC50/MOR//		LAB/F/I	4	86	7.16	25		5081
151	Vertebrates exposed to nickel in soft water at >15degC over 3-30 days exposure												
151	23233	<i>Ambloplites rupestris</i>	7440020	2.48	LC50/MOR//	young-of-the-year	LAB/F/I	4	26	7.17	25		5081
151	23240	<i>Anguilla rostrata</i>	7440020	13	LC50/MOR//		LAB/S/I	4	55	8	28		2002
151	24046	<i>Anguilla rostrata</i>	13138459	13	LC50/MOR//		LAB/S/I	4	53	7.8	17		2001
151	23257	<i>Cyprinus carpio</i>	7440020	10.4	LC50/MOR//		LAB/S/I	4	55	8	28		2002
151	24057	<i>Cyprinus carpio</i>	13138459	10.6	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
151	23295	<i>Lepomis gibbosus</i>	7440020	8	LC50/MOR//		LAB/S/I	4	55	8	28		2002
151	24066	<i>Lepomis gibbosus</i>	13138459	8.1	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
151	23512	<i>Lepomis macrochirus</i>	7718549	21.2	LC50/MOR/INC/	50.1 mm (28-68 mm)	LAB/F/C	4	53.9	7.05	20.75		6316
151	23523	<i>Lepomis macrochirus</i>	7718549	62.2	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	4	35	7.1	21		3779
151	23527	<i>Lepomis macrochirus</i>	7718549	42	NOEC/MOR//	1.1 g, 37 mm	LAB/S/I	4	35	7.1	21		3779
151	23299	<i>Morone americana</i>	7440020	13.7	LC50/MOR//		LAB/S/I	4	55	8	28		2002
151	24071	<i>Morone americana</i>	13138459	13.6	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
151	23302	<i>Morone saxatilis</i>	7440020	6.3	LC50/MOR//		LAB/S/I	4	55	8	28		2002
151	24074	<i>Morone saxatilis</i>	13138459	6.2	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
151	23570	<i>Oncorhynchus mykiss</i>	7718549	13.7	LC50/MOR//	1.09 g, 32 mm	LAB/S/I	4	35	7.1	21		3779
151	23574	<i>Oncorhynchus mykiss</i>	7718549	5.6	NOEC/MOR//	1.09 g, 32 mm	LAB/S/I	4	35	7.1	21		3779
151	23311	<i>Pimephales promelas</i>	7440020	2.916	LC50/MOR//		LAB/F/I	4	29	6.5	25		5081
151	23312	<i>Pimephales promelas</i>	7440020	2.923	LC50/MOR//		LAB/F/I	4	28	7	25		5081

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
152	Vertebrates exposed to nickel in soft water at >15degC over 1-3 days exposure												
152	23239	<i>Anguilla rostrata</i>	7440020	13.1	LC50/MOR//		LAB/S/I	2	55	8	28	2002	
152	24045	<i>Anguilla rostrata</i>	13138459	13.2	LC50/MOR//		LAB/S/I	2	53	7.8	17	2001	
152	23256	<i>Cyprinus carpio</i>	7440020	28.9	LC50/MOR//		LAB/S/I	2	55	8	28	2002	
152	24056	<i>Cyprinus carpio</i>	13138459	29.1	LC50/MOR//	<=20 cm	LAB/S/I	2	53	7.8	17	2001	
152	23294	<i>Lepomis gibbosus</i>	7440020	12.1	LC50/MOR//		LAB/S/I	2	55	8	28	2002	
152	24065	<i>Lepomis gibbosus</i>	13138459	12	LC50/MOR//	<=20 cm	LAB/S/I	2	53	7.8	17	2001	
152	23522	<i>Lepomis macrochirus</i>	7718549	115	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	2	35	7.1	21	3779	
152	23298	<i>Morone americana</i>	7440020	16	LC50/MOR//		LAB/S/I	2	55	8	28	2002	
152	24070	<i>Morone americana</i>	13138459	16.2	LC50/MOR//	<=20 cm	LAB/S/I	2	53	7.8	17	2001	
152	23301	<i>Morone saxatilis</i>	7440020	8.5	LC50/MOR//		LAB/S/I	2	55	8	28	2002	
152	24073	<i>Morone saxatilis</i>	13138459	8.4	LC50/MOR//	<=20 cm	LAB/S/I	2	53	7.8	17	2001	
152	23569	<i>Oncorhynchus mykiss</i>	7718549	51	LC50/MOR//	1.09 g, 32 mm	LAB/S/I	2	35	7.1	21	3779	
153	Vertebrates exposed to nickel in soft water at >15degC over <=1 day exposure												
153	23238	<i>Anguilla rostrata</i>	7440020	14.1	LC50/MOR//		LAB/S/I	1	55	8	28	2002	
153	24044	<i>Anguilla rostrata</i>	13138459	14	LC50/MOR//		LAB/S/I	1	53	7.8	17	2001	
153	23255	<i>Cyprinus carpio</i>	7440020	38.3	LC50/MOR//		LAB/S/I	1	55	8	28	2002	
153	24055	<i>Cyprinus carpio</i>	13138459	38.2	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17	2001	
153	23293	<i>Lepomis gibbosus</i>	7440020	16.4	LC50/MOR//		LAB/S/I	1	55	8	28	2002	
153	24064	<i>Lepomis gibbosus</i>	13138459	16.4	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17	2001	
153	23521	<i>Lepomis macrochirus</i>	7718549	170	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	1	35	7.1	21	3779	
153	23297	<i>Morone americana</i>	7440020	18.4	LC50/MOR//		LAB/S/I	1	55	8	28	2002	
153	24069	<i>Morone americana</i>	13138459	18.4	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17	2001	
153	23300	<i>Morone saxatilis</i>	7440020	10	LC50/MOR//		LAB/S/I	1	55	8	28	2002	
153	24072	<i>Morone saxatilis</i>	13138459	10	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17	2001	
153	23568	<i>Oncorhynchus mykiss</i>	7718549	196	LC50/MOR//	1.09 g, 32 mm	LAB/S/I	1	35	7.1	21	3779	
153	23734	<i>Oryzias latipes</i>	7718549	5.5	/MOR//	fry, 8 d	LAB/S/S	1	10.5	6.9	25	12151	
154	Vertebrates exposed to nickel in very hard water at >15degC over 3-30 days exposure												
154	23770	<i>Barbus sophore</i>	7786814	13.57	LC50/MOR//		LAB/R/S	4	260	7.4	20.5	see paper	15138
154	23418	<i>Carassius auratus</i>	7718549	2.14	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
154	23779	<i>Channa punctata</i>	7786814	24.5	LC50/MOR//		LAB/R/S	4	260	7.4	20.5	see paper	15138
154	23500	<i>Gastrophryne carolinensis</i>	7718549	0.05	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
154	23526	<i>Lepomis macrochirus</i>	7718549	60.3	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	4	200	7.6	21		3779
154	23528	<i>Lepomis macrochirus</i>	7718549	37	NOEC/MOR//	1.1 g, 37 mm	LAB/S/I	4	200	7.6	21		3779
154	23590	<i>Pimephales promelas</i>	7718549	4	LC50/MOR//	<=24 h	LAB//I	4	290	6.605	25		7289
154	23591	<i>Pimephales promelas</i>	7718549	3.4	LC50/MOR//	<=24 h	LAB//I	4	290	7.465	25		7289
154	23605	<i>Pimephales promelas</i>	7718549	27	LC50/MOR//	immature	LAB/S/I	4	207	7.8	25	acidity 7.4 mg/l, dilution water hardness	5225
154	23606	<i>Pimephales promelas</i>	7718549	32	LC50/MOR//	immature	LAB/S/I	4	207	7.8	25	acidity 7.4 mg/l, dilution water hardness	5225
154	23607	<i>Pimephales promelas</i>	7718549	32.2	LC50/MOR//	immature	LAB/S/I	4	207	7.8	25	acidity 7.4 mg/l, dilution water hardness	5225
154	23608	<i>Pimephales promelas</i>	7718549	28	LC50/MOR//	immature	LAB/F/I	4	207	7.8	25	acidity 7.4 mg/l, dilution water hardness	5225
154	23609	<i>Pimephales promelas</i>	7718549	25	LC50/MOR//	immature	LAB/F/I	4	207	7.8	25	acidity 7.4 mg/l, dilution water hardness	5225
154	23737	<i>Pimephales promelas</i>	7718549	0.73	/MOR//	egg, progeny of fish exposed to ni	LAB/F/U	7	207	7.8	20	acidity 7.4 mg/l, dilution water hardness	5225
154	23738	<i>Pimephales promelas</i>	7718549	0.38	/MOR//	egg, progeny of fish exposed to ni	LAB/F/U	7	207	7.8	20	acidity 7.4 mg/l, dilution water hardness	5225
154	23931	<i>Poecilia reticulata</i>	7786814	34.9	LC50/MOR//		LAB/R/S	4	260	7.4	20.5	see paper	15138
154	23935	<i>Rasbora daniconius neilgeriens</i>	7786814	48.83	LC50/MOR/INC/		LAB/R/C	4	260	7.4	20.5		15138
155	Vertebrates exposed to nickel in very hard water at >15degC over 1-3 days exposure												
155	23768	<i>Barbus sophore</i>	7786814	23.79	LC50/MOR//		LAB/R/S	2	260	7.4	20.5	see paper	15138
155	23769	<i>Barbus sophore</i>	7786814	15.88	LC50/MOR//		LAB/R/S	3	260	7.4	20.5	see paper	15138
155	23777	<i>Channa punctata</i>	7786814	35.29	LC50/MOR//		LAB/R/S	2	260	7.4	20.5	see paper	15138
155	23778	<i>Channa punctata</i>	7786814	25.52	LC50/MOR//		LAB/R/S	3	260	7.4	20.5	see paper	15138
155	23780	<i>Channa punctata</i>	7786814	37	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/I	2	260	7.4	20.5	conductivity 980(800-1050) umhos/cm, tds	11083

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
155	23525	<i>Lepomis macrochirus</i>	7718549	110	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	2	200	7.6	21		3779
155	23880	<i>Oncorhynchus mykiss</i>	7786814	7.14	LC50/MOR//	1 yr, 143 mm, 33.5 g	LAB/R/I	2	240	7.4	16.85		6202
155	23619	<i>Poecilia reticulata</i>	7718549	2.5	LC50/MOR/INC/	1.84 mg, 1.5 cm	LAB/R/	2	260	7.4	21		10343
155	23929	<i>Poecilia reticulata</i>	7786814	48.48	LC50/MOR/INC/		LAB/R/C	2	260	7.4	20.5		15138
155	23930	<i>Poecilia reticulata</i>	7786814	40.96	LC50/MOR//		LAB/R/S	3	260	7.4	20.5	see paper	15138
155	23933	<i>Rasbora daniconius neilgeriens</i>	7786814	50.42	LC50/MOR/INC/		LAB/R/C	2	260	7.4	20.5		15138
155	23934	<i>Rasbora daniconius neilgeriens</i>	7786814	58.42	LC50/MOR/INC/		LAB/R/C	3	260	7.4	20.5		15138
156	Vertebrates exposed to nickel in very hard water at >15degC over <=1 day exposure												
156	23767	<i>Barbus sophore</i>	7786814	70.5	LC50/MOR//		LAB/R/S	1	260	7.4	20.5	see paper	15138
156	23775	<i>Channa punctata</i>	7786814	100	LC50/MOR//		LAB/R/S	0.5	260	7.4	20.5	see paper	15138
156	23776	<i>Channa punctata</i>	7786814	68.74	LC50/MOR//		LAB/R/S	1	260	7.4	20.5	see paper	15138
156	23524	<i>Lepomis macrochirus</i>	7718549	170	LC50/MOR//	1.1 g, 37 mm	LAB/S/I	1	200	7.6	21		3779
156	23927	<i>Poecilia reticulata</i>	7786814	73	LC50/MOR//		LAB/R/S	0.5	260	7.4	20.5	see paper	15138
156	23928	<i>Poecilia reticulata</i>	7786814	56	LC50/MOR//		LAB/R/S	1	260	7.4	20.5	see paper	15138
156	23932	<i>Rasbora daniconius neilgeriens</i>	7786814	77.83	LC50/MOR/INC/		LAB/R/C	1	260	7.4	20.5		15138
156	23936	<i>Rasbora daniconius neilgeriens</i>	7786814	150	LC50/MOR/INC/		LAB/R/C	0.5	260	7.4	20.5		15138
157	Arthropods exposed to selenium at >15degC over 1-3 days exposure												
157	24477	<i>Ceriodaphnia affinis</i>	10102188	0.6	LC50/MOR/INC/	12 h, neonate	LAB/S/C	2	110.1	7.9	23	organism age	20115
157	24479	<i>Ceriodaphnia affinis</i>	10102188	0.72	LC50/MOR/INC/	48 h, juvenile	LAB/S/C	2	110.1	7.9	23	organism age	20115
157	24481	<i>Ceriodaphnia affinis</i>	10102188	0.64	LC50/MOR/INC/	96 h, reproducing adult	LAB/S/C	2	110.1	7.9	23	organism age	20115
157	24483	<i>Ceriodaphnia affinis</i>	10102188	0.48	LC50/MOR/INC/	72-120 h	LAB/S/C	2	110.1	7.9	23	organism age	20115
157	24484	<i>Ceriodaphnia affinis</i>	10102188	0.6	LC50/MOR/INC/	females	LAB/R/C	2	110.1	7.9	23		20115
157	24485	<i>Ceriodaphnia affinis</i>	10102188	0.6	LC50/MOR/INC/	12 h	LAB/R/C	2	110.1	7.9	23		20115
157	24502	<i>Chironomus plumosus</i>	10102188	50	LC50/ITX/INC/	3rd instar	LAB/S/	2	280	7.5	22		6797
157	24503	<i>Chironomus plumosus</i>	10102188	36.5	LC50/ITX/INC/	3rd instar	LAB/S/	2	39	7.7	22		6797
157	24253	<i>Chironomus thummi</i>	7782492	14.3	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
157	24505	<i>Chironomus thummi</i>	10102188	14.6	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
157	24962	<i>Chironomus thummi</i>	13410010	10.5	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
157	24508	<i>Cyclocypris</i>	10102188	130	LC50/MOR/INC/	1.40 mm	LAB/S/C	2	110.1	7.9	23		20115

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
157	24262	<i>Daphnia magna</i>	7782492	0.43	LC50/MOR//	<=24 h old	LAB/S/S	2	173	8	22		5184
157	24264	<i>Daphnia magna</i>	7782492	9.34	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
157	24265	<i>Daphnia magna</i>	7782492	0.71	LC50/MOR//	middle instar	LAB/F/I	2	329	7.3	25	water profile rptd	486
157	24351	<i>Daphnia magna</i>	7782492	0.22	/MOR//	<= 24 h	LAB/S/S	2	173	8	22		5184
157	24518	<i>Daphnia magna</i>	10102188	0.47	LC50/ITX/INC/	<24 h	LAB/S/	2	185	7.75	21.5	unfed	18379
157	24519	<i>Daphnia magna</i>	10102188	1.5	LC50/ITX/INC/	<24 h	LAB/R/	2	275	7.85	22	fed	18379
157	24523	<i>Daphnia magna</i>	10102188	4	LC50/ITX/INC/	1st instar	LAB/S/	2	280	7.5	18		6797
157	24524	<i>Daphnia magna</i>	10102188	1	LC50/ITX/INC/	1st instar	LAB/S/	2	40	7.4	18		6797
157	24526	<i>Daphnia magna</i>	10102188	7.95	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
157	24546	<i>Daphnia magna</i>	10102188	1	NOEC/ITX/INC/NOSIG	<24 h	LAB/S/	2	185	7.75	21.5	unfed	18379
157	24825	<i>Daphnia magna</i>	10102188	2.5	/ITX/INC/	<=24 h	LAB/S/	2		7.5	23		607
157	24829	<i>Daphnia magna</i>	10102188	0.015	/POP/INC/NOSIG		LAB/R/C	3		7.9	20.2		60234
157	24970	<i>Daphnia magna</i>	13410010	0.57	LC50/ITX/INC/	<24 h	LAB//C	2	48.1	7.64	20		20295
157	24972	<i>Daphnia magna</i>	13410010	2.56	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
157	25204	<i>Daphnia magna</i>	14124686	0.243	/MOR/CHG/		LAB/R/C	3		7.92	24.95	soft-hard sulfate conc	16428
157	24552	<i>Daphnia pulex</i>	10102188	0.098	LC50/MOR//	adult	LAB/S/I	2		7.4	20		5278
157	24554	<i>Daphnia pulex</i>	10102188	0.613	LC50/MOR//	juvenile	LAB/S/I	2		7.4	20		5278
157	24556	<i>Daphnia pulex</i>	10102188	1.374	LC50/MOR//	adult	LAB/S/I	2		7.4	20		5278
157	24564	<i>Gammarus pseudolimnaeus</i>	10102188	6.1	LC50/MOR/INC/	0.015 g, 8.4 mm, adult	LAB//C	2	48.3	6.8	16.3		20295
157	24567	<i>Gammarus pseudolimnaeus</i>	10102188	2.6	LC50/ITX/INC/	adult, 9.3 mm tl, 23.1 mg wwgt	LAB/S/C	2	53.6	7.11	22		58078
157	24570	<i>Gammarus pseudolimnaeus</i>	10102188	6.9	LC50/MOR/INC/	0.015 g, 8.4 mm, adult	LAB//C	2	48.3	6.8	16.3		20295
157	24573	<i>Gammarus pseudolimnaeus</i>	10102188	2.9	LC50/MOR/INC/	adult, 9.3 mm tl, 23.1 mg wwgt	LAB/S/C	2	53.6	7.11	22		58078
157	24834	<i>Gammarus pseudolimnaeus</i>	10102188	9.6	NR-LETH/MOR/INC/	0.015 g, 8.4 mm, adult	LAB//C	3	48.3	6.8	16.3		20295
157	24835	<i>Gammarus pseudolimnaeus</i>	10102188	6.3	NR-LETH/MOR/INC/	adult, 9.3 mm tl, 23.1 mg wwgt	LAB/S/C	3	53.6	7.11	22		58078
157	24986	<i>Gammarus pseudolimnaeus</i>	13410010	0.137	LC50/MOR/INC/	0.010 g, 6 mm, adult	LAB//C	2	46.1	7.14	17.6		20295
157	24989	<i>Gammarus pseudolimnaeus</i>	13410010	0.083	LC50/ITX/INC/	adult, 9.2 mm tl, 17.9 mg wwgt	LAB/S/C	2	51	6.99	21.9		58078
157	24992	<i>Gammarus pseudolimnaeus</i>	13410010	0.137	LC50/MOR/INC/	0.010 g, 6 mm, adult	LAB//C	2	46.1	7.14	17.6		20295
157	24995	<i>Gammarus pseudolimnaeus</i>	13410010	0.083	LC50/MOR/INC/	adult, 9.2 mm tl, 17.9 mg wwgt	LAB/S/C	2	51	6.99	21.9		58078

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
157	<i>Gammarus pseudolimnaeus</i>	13410010	0.22	NR-LETH/MOR/INC/	adult, 9.2 mm tl, 17.9 mg wwgt	LAB/S/C	2	51	6.99	21.9		58078
157	<i>Hyalella azteca</i>	7782492	0.94	LC50/MOR//	adult	LAB/F/I	2	329	7.3	25	water profile rptd	486
157	<i>Paratanytarsus parthenogenetic</i>	13410010	20	LC50/ITX/INC/	3rd inster larvae	LAB//C	2	49.4	7.36	21.8		20295
158	Invertebrates exposed to selenium at >15degC over 3-30 days exposure											
158	<i>Aplexa hypnorum</i>	10102188	43	LC50/MOR/INC/	0.095 g, adult	LAB//C	4	50.6	7.4	16.4		20295
158	<i>Aplexa hypnorum</i>	10102188	23	LC50/MOR/INC/	0.061 g, adult	LAB//C	4	48.3	6.8	16.3		20295
158	<i>Aplexa hypnorum</i>	10102188	53	LC50/MOR/INC/	0.095 g, adult	LAB//C	4	50.6	7.4	16.4		20295
158	<i>Aplexa hypnorum</i>	10102188	23	LC50/MOR/INC/	0.061 g, adult	LAB//C	4	48.3	6.8	16.3		20295
158	<i>Aplexa hypnorum</i>	13410010	193	LC50/MOR/INC/	0.095 g, adult	LAB//C	4	51	7.5	15.8		20295
158	<i>Aplexa hypnorum</i>	13410010	193	LC50/MOR/INC/	0.095 g, adult	LAB//C	4	51	7.5	15.8		20295
158	<i>Ceriodaphnia affinis</i>	10102188	0.2	NOEC/POP/DEC/NOSIG	24 h	LAB/R/C	14	110.1	7.9	23		20115
158	<i>Ceriodaphnia affinis</i>	10102188	0.189	/GRO/CHG/ANOSIG	12 h, broods 1-9, single generation	LAB/R/C	20	110.1	7.9	23		20115
158	<i>Ceriodaphnia affinis</i>	10102188	0.189	/REP/CHG/ANOSIG	12 h, broods 1-9, single generation	LAB/R/C	20	110.1	7.9	23		20115
158	<i>Ceriodaphnia affinis</i>	10102188	0.25	/POP/CHG/MULT	24 h	LAB/R/C	9	110.1	7.9	23		20115
158	<i>Ceriodaphnia affinis</i>	10102188	0.8	NR-LETH/MOR/DEC/	females	LAB/R/C	4	110.1	7.9	23		20115
158	<i>Ceriodaphnia affinis</i>	10102188	0.2	NR-LETH/MOR/DEC/	female	LAB/R/C	8	110.1	7.9	23		20115
158	<i>Ceriodaphnia dubia</i>	13410010	0.74	/MOR/DEC/NOSIG	neonate, <24 h	LAB/R/C	8	119.4	7.9	25.8		13729
158	<i>Ceriodaphnia dubia</i>	13410010	0.69	/REP/CHG/NOSIG	neonate, <24 h	LAB/R/C	8	119.4	7.9	25.8		13729
158	<i>Ceriodaphnia dubia</i>	13410010	0.51	NR-ZERO/MOR/NEF/NOSIG	neonate, <24 h	LAB/R/C	8	119.4	7.9	25.8		13729
158	<i>Chironomus thummi</i>	7782492	0.504	MATC/DVP//	<24 h	LAB/S/S	30	137.6	7.98	22		956
158	<i>Chironomus thummi</i>	7782492	0.303	NOEC/DVP//	<24 h	LAB/F/S	30	137.6	7.98	22		956
158	<i>Daphnia magna</i>	7782492	0.43	LC50/MOR//	middle instar	LAB/F/I	4	329	7.3	25	water profile rptd	486
158	<i>Daphnia magna</i>	7782492	0.43	LC50/MOR//	middle instar	LAB/F/I	14	329	7.3	25	water profile rptd	486
158	<i>Daphnia magna</i>	7782492	0.115	MATC/GRO//	<24 h	LAB/F/I	21	138.1	7.93	22		956
158	<i>Daphnia magna</i>	7782492	0.085	NOEC/GRO//	<24 h	LAB/F/I	21	138.1	7.93	22		956
158	<i>Daphnia magna</i>	7782492	0.711	/MOR//NOSIG	<24 h	LAB/F/I	21	138.1	7.93	22		956
158	<i>Daphnia magna</i>	7782492	1.41	/MOR//SIG	<24 h	LAB/F/I	21	138.1	7.93	22		956
158	<i>Daphnia magna</i>	7782492	0.156	/REP//NOSIG	<24 h	LAB/F/I	21	138.1	7.93	22		956
158	<i>Daphnia magna</i>	7782492	0.348	/REP//SIG	<24 h	LAB/F/I	21	138.1	7.93	22		956
158	<i>Daphnia magna</i>	7782492	0.156	/POP//NOSIG	<24 h	LAB/F/I	21	138.1	7.93	22		956
158	<i>Daphnia magna</i>	7782492	0.348	/POP//SIG	<24 h	LAB/F/I	21	138.1	7.93	22		956
158	<i>Daphnia magna</i>	7782492	0.28	/MOR//	2 d	LAB/F/I	17.5	329	7.3	25	water profile rptd	486
158	<i>Daphnia magna</i>	7782492	0.28	/REP//	2 d	LAB/F/I	17.5	329	7.3	25	water profile rptd	486

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
158	24520	<i>Daphnia magna</i>	10102188	0.38	LC50/ITX/INC/	<24 h	LAB/R/	7	275	7.85	22	fed	18379
158	24521	<i>Daphnia magna</i>	10102188	0.38	LC50/ITX/INC/	<24 h	LAB/R/C	14	275	7.85	22		18379
158	24522	<i>Daphnia magna</i>	10102188	0.35	LC50/ITX/INC/	<24 h	LAB/R/C	21	275	7.85	22		18379
158	24535	<i>Daphnia magna</i>	10102188	0.52	LOEC/MOR/DEC/SIG	<24 h	LAB/R/C	7	275	7.85	22		18379
158	24536	<i>Daphnia magna</i>	10102188	0.52	LOEC/MOR/DEC/SIG	<24 h	LAB/R/C	14	275	7.85	22		18379
158	24537	<i>Daphnia magna</i>	10102188	0.52	LOEC/MOR/DEC/SIG	<24 h	LAB/R/C	21	275	7.85	22		18379
158	24539	<i>Daphnia magna</i>	10102188	0.35	MATC/MOR/DEC/	<24 h	LAB/R/C	7	275	7.85	22		18379
158	24540	<i>Daphnia magna</i>	10102188	0.35	MATC/MOR/DEC/	<24 h	LAB/R/C	14	275	7.85	22		18379
158	24541	<i>Daphnia magna</i>	10102188	0.35	MATC/REP/DEC/	<24 h	LAB/R/C	14	275	7.85	22		18379
158	24542	<i>Daphnia magna</i>	10102188	0.35	MATC/REP/DEC/	<24 h	LAB/R/C	21	275	7.85	22		18379
158	24543	<i>Daphnia magna</i>	10102188	0.35	MATC/MOR/DEC/	<24 h	LAB/R/C	21	275	7.85	22		18379
158	24547	<i>Daphnia magna</i>	10102188	0.24	NOEC/MOR/DEC/NOSIG	<24 h	LAB/R/C	7	275	7.85	22		18379
158	24548	<i>Daphnia magna</i>	10102188	0.24	NOEC/MOR/DEC/NOSIG	<24 h	LAB/R/C	14	275	7.85	22		18379
158	24549	<i>Daphnia magna</i>	10102188	0.24	NOEC/MOR/DEC/NOSIG	<24 h	LAB/R/C	21	275	7.85	22		18379
158	24550	<i>Daphnia magna</i>	10102188	0.24	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	14	275	7.85	22		18379
158	24551	<i>Daphnia magna</i>	10102188	0.24	NOEC/REP/DEC/NOSIG	<24 h	LAB/R/C	21	275	7.85	22		18379
158	24830	<i>Daphnia magna</i>	10102188	0.015	/GRO/NEF/NOSIG		LAB/R/C	10		7.9	20.2		60234
158	24831	<i>Daphnia magna</i>	10102188	0.015	/REP/DEC/NOSIG		LAB/R/C	10		7.9	20.2		60234
158	24833	<i>Daphnia magna</i>	10102188	0.015	NR-ZERO/MOR/NEF/		LAB/R/C	10		7.9	20.2		60234
158	24553	<i>Daphnia pulex</i>	10102188	0.071	LC50/MOR//	adult	LAB/S/I	4		7.4	20		5278
158	24555	<i>Daphnia pulex</i>	10102188	0.126	LC50/MOR//	juvenile	LAB/S/I	4		7.4	20		5278
158	24557	<i>Daphnia pulex</i>	10102188	0.499	LC50/MOR//	adult	LAB/S/I	4		7.4	20		5278
158	24868	<i>Daphnia pulex</i>	10102188	0.4	/REP//	adult	LAB/R/S	28	46.4	7.4	20		10925
158	24869	<i>Daphnia pulex</i>	10102188	0.2	/REP//	adult	LAB/R/S	28	46.4	7.4	20		10925
158	24870	<i>Daphnia pulex</i>	10102188	0.8	/GRO//	preadult instars, molts 2 and 3	LAB/R/I	28	46.4	7.4	20		10925
158	24871	<i>Daphnia pulex</i>	10102188	0.2	/MOR//	24 h neonate	LAB/R/S	5	46.4	7.4	20		10925
158	24872	<i>Daphnia pulex</i>	10102188	0.6	/GRO//	preadult instars, molts 2 and 3	LAB/R/I	28	46.4	7.4	20		10925
158	24873	<i>Daphnia pulex</i>	10102188	0.8	/MOR//	24 h neonate	LAB/R/S	28	46.4	7.4	20		10925
158	24874	<i>Daphnia pulex</i>	10102188	0.6	/MOR//	24 h neonate	LAB/R/S	28	46.4	7.4	20		10925
158	24875	<i>Daphnia pulex</i>	10102188	0.4	/MOR//	24 h neonate	LAB/R/S	28	46.4	7.4	20		10925
158	24876	<i>Daphnia pulex</i>	10102188	0.2	/MOR//	24 h neonate	LAB/R/S	28	46.4	7.4	20		10925
158	24877	<i>Daphnia pulex</i>	10102188	0.8	/MOR//	24 h neonate	LAB/R/S	5	46.4	7.4	20		10925
158	24878	<i>Daphnia pulex</i>	10102188	0.6	/MOR//	24 h neonate	LAB/R/S	5	46.4	7.4	20		10925
158	24879	<i>Daphnia pulex</i>	10102188	0.4	/MOR//	24 h neonate	LAB/R/S	5	46.4	7.4	20		10925
158	24565	<i>Gammarus pseudolimnaeus</i>	10102188	3.5	LC50/MOR/INC/	0.015 g, 8.4 mm, adult	LAB/C	4	48.3	6.8	16.3		20295

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
158	24568	<i>Gammarus pseudolimnaeus</i>	10102188	1.7	LC50/ITX/INC/	adult, 9.3 mm tl, 23.1 mg wwgt	LAB/S/C	4	53.6	7.11	22		58078
158	24571	<i>Gammarus pseudolimnaeus</i>	10102188	4.3	LC50/MOR/INC/	0.015 g, 8.4 mm, adult	LAB//C	4	48.3	6.8	16.3		20295
158	24574	<i>Gammarus pseudolimnaeus</i>	10102188	1.9	LC50/MOR/INC/	adult, 9.3 mm tl, 23.1 mg wwgt	LAB/S/C	4	53.6	7.11	22		58078
158	24836	<i>Gammarus pseudolimnaeus</i>	10102188	0.51	NR-ZERO/MOR/NEF/	adult, 9.3 mm tl, 23.1 mg wwgt	LAB/S/C	4	53.6	7.11	22		58078
158	24987	<i>Gammarus pseudolimnaeus</i>	13410010	0.054	LC50/MOR/INC/	0.010 g, 6 mm, adult	LAB//C	4	46.1	7.14	17.6		20295
158	24990	<i>Gammarus pseudolimnaeus</i>	13410010	0.057	LC50/ITX/INC/	adult, 9.2 mm tl, 17.9 mg wwgt	LAB/S/C	4	51	6.99	21.9		58078
158	24993	<i>Gammarus pseudolimnaeus</i>	13410010	0.075	LC50/MOR/INC/	0.010 g, 6 mm, adult	LAB//C	4	46.1	7.14	17.6		20295
158	24996	<i>Gammarus pseudolimnaeus</i>	13410010	0.057	LC50/MOR/INC/	adult, 9.2 mm tl, 17.9 mg wwgt	LAB/S/C	4	51	6.99	21.9		58078
158	25137	<i>Gammarus pseudolimnaeus</i>	13410010	0.125	NR-LETH/MOR/INC/		LAB//	4	50.4	7.53	21.9		20295
158	24273	<i>Hyalella azteca</i>	7782492	0.34	LC50/MOR//	adult	LAB/F/I	4	329	7.3	25	water profile rptd	486
158	24274	<i>Hyalella azteca</i>	7782492	0.07	LC50/MOR//	adult	LAB/F/I	14	329	7.3	25	water profile rptd	486
158	25004	<i>Hyalella azteca</i>	13410010	0.76	LC50/MOR/INC/	immature	LAB/F/C	4	336.8	7.4	15.9		19753
158	24342	<i>Moinodaphnia macleayi</i>	7782492	0.002	NR-LETH/MOR//	<6 h	LAB/R/I	5		6.05	29	buffalo billabong water, chlamydomonas fedconductivity	7236
158	24658	<i>Nepheleopsis obscura</i>	10102188	203	LC50/MOR/INC/	2.29 g, 82 mm, adult	LAB//C	4	49.8	7.91	16.6		20295
158	24660	<i>Nepheleopsis obscura</i>	10102188	203	LC50/MOR/INC/	2.29 g, 82 mm, adult	LAB//C	4	49.8	7.91	16.6		20295
158	25018	<i>Nepheleopsis obscura</i>	13410010	442	LC50/MOR/INC/	69 mm, 1.099 g, adult	LAB//C	4	49.3	7.39	17		20295
158	25019	<i>Nepheleopsis obscura</i>	13410010	442	LC50/MOR/INC/	69 mm, 1.099 g, adult	LAB//C	4	49.3	7.39	17		20295
159	Invertebrates exposed to selenium at >15degC over 1-3 days exposure												
159	24447	<i>Aplexa hypnorum</i>	10102188	23	LC50/MOR/INC/	0.061 g, adult	LAB//C	2	49.8	7.91	16.6		20295
159	24449	<i>Aplexa hypnorum</i>	10102188	23	LC50/MOR/INC/	0.061 g, adult	LAB//C	2	48.3	6.8	16.3		20295
159	24816	<i>Aplexa hypnorum</i>	10102188	65	NR-LETH/MOR/INC/	0.061 g, adult	LAB//C	2	49.8	7.91	16.6		20295
159	24477	<i>Ceriodaphnia affinis</i>	10102188	0.6	LC50/MOR/INC/	12 h, neonate	LAB/S/C	2	110.1	7.9	23	organism age	20115
159	24479	<i>Ceriodaphnia affinis</i>	10102188	0.72	LC50/MOR/INC/	48 h, juvenile	LAB/S/C	2	110.1	7.9	23	organism age	20115

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
159	24481	<i>Ceriodaphnia affinis</i>	10102188	0.64	LC50/MOR/INC/	96 h, reproducing adult	LAB/S/C	2	110.1	7.9	23	organism age	20115
159	24483	<i>Ceriodaphnia affinis</i>	10102188	0.48	LC50/MOR/INC/	72-120 h	LAB/S/C	2	110.1	7.9	23	organism age	20115
159	24484	<i>Ceriodaphnia affinis</i>	10102188	0.6	LC50/MOR/INC/	females	LAB/R/C	2	110.1	7.9	23		20115
159	24485	<i>Ceriodaphnia affinis</i>	10102188	0.6	LC50/MOR/INC/	12 h	LAB/R/C	2	110.1	7.9	23		20115
159	24502	<i>Chironomus plumosus</i>	10102188	50	LC50/ITX/INC/	3rd instar	LAB/S/	2	280	7.5	22		6797
159	24503	<i>Chironomus plumosus</i>	10102188	36.5	LC50/ITX/INC/	3rd instar	LAB/S/	2	39	7.7	22		6797
159	24253	<i>Chironomus thummi</i>	7782492	14.3	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
159	24505	<i>Chironomus thummi</i>	10102188	14.6	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
159	24962	<i>Chironomus thummi</i>	13410010	10.5	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
159	24508	<i>Cyclocypris</i>	10102188	130	LC50/MOR/INC/	1.40 mm	LAB/S/C	2	110.1	7.9	23		20115
159	24262	<i>Daphnia magna</i>	7782492	0.43	LC50/MOR//	<=24 h old	LAB/S/S	2	173	8	22		5184
159	24264	<i>Daphnia magna</i>	7782492	9.34	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
159	24265	<i>Daphnia magna</i>	7782492	0.71	LC50/MOR//	middle instar	LAB/F/I	2	329	7.3	25	water profile rptd	486
159	24351	<i>Daphnia magna</i>	7782492	0.22	/MOR//	<= 24 h	LAB/S/S	2	173	8	22		5184
159	24518	<i>Daphnia magna</i>	10102188	0.47	LC50/ITX/INC/	<24 h	LAB/S/	2	185	7.75	21.5	unfed	18379
159	24519	<i>Daphnia magna</i>	10102188	1.5	LC50/ITX/INC/	<24 h	LAB/R/	2	275	7.85	22	fed	18379
159	24523	<i>Daphnia magna</i>	10102188	4	LC50/ITX/INC/	1st instar	LAB/S/	2	280	7.5	18		6797
159	24524	<i>Daphnia magna</i>	10102188	1	LC50/ITX/INC/	1st instar	LAB/S/	2	40	7.4	18		6797
159	24526	<i>Daphnia magna</i>	10102188	7.95	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
159	24546	<i>Daphnia magna</i>	10102188	1	NOEC/ITX/INC/NOSIG	<24 h	LAB/S/	2	185	7.75	21.5	unfed	18379
159	24825	<i>Daphnia magna</i>	10102188	2.5	/ITX/INC/	<=24 h	LAB/S/	2		7.5	23		607
159	24829	<i>Daphnia magna</i>	10102188	0.015	/POP/INC/NOSIG		LAB/R/C	3		7.9	20.2		60234
159	24970	<i>Daphnia magna</i>	13410010	0.57	LC50/ITX/INC/	<24 h	LAB//C	2	48.1	7.64	20		20295
159	24972	<i>Daphnia magna</i>	13410010	2.56	LC50/ITX//	<24 h	LAB/S/I	2	45.5	7.82	22	astm soft water	956
159	25204	<i>Daphnia magna</i>	14124686	0.243	/MOR/CHG/		LAB/R/C	3		7.92	24.95	soft-hard sulfate conc	16428
159	24552	<i>Daphnia pulex</i>	10102188	0.098	LC50/MOR//	adult	LAB/S/I	2		7.4	20		5278
159	24554	<i>Daphnia pulex</i>	10102188	0.613	LC50/MOR//	juvenile	LAB/S/I	2		7.4	20		5278
159	24556	<i>Daphnia pulex</i>	10102188	1.374	LC50/MOR//	adult	LAB/S/I	2		7.4	20		5278
159	24564	<i>Gammarus pseudolimnaeus</i>	10102188	6.1	LC50/MOR/INC/	0.015 g, 8.4 mm, adult	LAB//C	2	48.3	6.8	16.3		20295
159	24567	<i>Gammarus pseudolimnaeus</i>	10102188	2.6	LC50/ITX/INC/	adult, 9.3 mm tl, 23.1 mg wwgt	LAB/S/C	2	53.6	7.11	22		58078
159	24570	<i>Gammarus pseudolimnaeus</i>	10102188	6.9	LC50/MOR/INC/	0.015 g, 8.4 mm, adult	LAB//C	2	48.3	6.8	16.3		20295

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
159	24573	<i>Gammarus pseudolimnaeus</i>	10102188	2.9	LC50/MOR/INC/	adult, 9.3 mm tl, 23.1 mg wwgt	LAB/S/C	2	53.6	7.11	22		58078
159	24834	<i>Gammarus pseudolimnaeus</i>	10102188	9.6	NR-LETH/MOR/INC/	0.015 g, 8.4 mm, adult	LAB//C	3	48.3	6.8	16.3		20295
159	24835	<i>Gammarus pseudolimnaeus</i>	10102188	6.3	NR-LETH/MOR/INC/	adult, 9.3 mm tl, 23.1 mg wwgt	LAB/S/C	3	53.6	7.11	22		58078
159	24986	<i>Gammarus pseudolimnaeus</i>	13410010	0.137	LC50/MOR/INC/	0.010 g, 6 mm, adult	LAB//C	2	46.1	7.14	17.6		20295
159	24989	<i>Gammarus pseudolimnaeus</i>	13410010	0.083	LC50/ITX/INC/	adult, 9.2 mm tl, 17.9 mg wwgt	LAB/S/C	2	51	6.99	21.9		58078
159	24992	<i>Gammarus pseudolimnaeus</i>	13410010	0.137	LC50/MOR/INC/	0.010 g, 6 mm, adult	LAB//C	2	46.1	7.14	17.6		20295
159	24995	<i>Gammarus pseudolimnaeus</i>	13410010	0.083	LC50/MOR/INC/	adult, 9.2 mm tl, 17.9 mg wwgt	LAB/S/C	2	51	6.99	21.9		58078
159	25138	<i>Gammarus pseudolimnaeus</i>	13410010	0.22	NR-LETH/MOR/INC/	adult, 9.2 mm tl, 17.9 mg wwgt	LAB/S/C	2	51	6.99	21.9		58078
159	24272	<i>Hyalella azteca</i>	7782492	0.94	LC50/MOR//	adult	LAB/F/I	2	329	7.3	25	water profile rptd	486
159	24585	<i>Hydra</i>	10102188	1.7	EC50/BEH/INC/	<0.001 g, adult	LAB//C	2		7.74	20.4		20295
159	25006	<i>Hydra</i>	13410010	7.3	EC50/BEH/INC/	<0.001 g, adult	LAB//C	2	53.6	7.64	25		20295
159	24657	<i>Nepheleopsis obscura</i>	10102188	235	LC50/MOR/INC/	2.29 g, 82 mm, adult	LAB//C	2	49.8	7.91	16.6		20295
159	24659	<i>Nepheleopsis obscura</i>	10102188	235	LC50/MOR/INC/	2.29 g, 82 mm, adult	LAB//C	2	49.8	7.91	16.6		20295
159	25051	<i>Paratanytarsus parthenogenetic</i>	13410010	20	LC50/ITX/INC/	3rd inster larvae	LAB//C	2	49.4	7.36	21.8		20295
159	24791	<i>Spirostomum ambiguum</i>	10102188	51.9	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
159	24793	<i>Spirostomum ambiguum</i>	10102188	51.9	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
160	Invertebrates exposed to selenium at >15degC over <=1 day exposure												
160	24476	<i>Ceriodaphnia affinis</i>	10102188	0.76	LC50/MOR/INC/	12 h, neonate	LAB/S/C	1	110.1	7.9	23	organism age	20115
160	24478	<i>Ceriodaphnia affinis</i>	10102188	1.9	LC50/MOR/INC/	48 h, juvenile	LAB/S/C	1	110.1	7.9	23	organism age	20115
160	24480	<i>Ceriodaphnia affinis</i>	10102188	3	LC50/MOR/INC/	96 h, reproducing adult	LAB/S/C	1	110.1	7.9	23	organism age	20115
160	24482	<i>Ceriodaphnia affinis</i>	10102188	1.8	LC50/MOR/INC/	72-120 h	LAB/S/C	1	110.1	7.9	23	organism age	20115
160	24507	<i>Cyclocypris</i>	10102188	560	LC50/MOR/INC/	1.40 mm	LAB/S/C	1	110.1	7.9	23		20115
160	24261	<i>Daphnia magna</i>	7782492	0.66	LC50/MOR//	<=24 h old	LAB/S/S	1	173	8	22		5184
160	24527	<i>Daphnia magna</i>	10102188	5.3	LC50/MOR//	24 h	LAB/S/I	1	70	7.65	21		5718
160	24880	<i>Daphnia pulex</i>	10102188	0.8	/PHY//	pre-adult, 0.91 mm	LAB/S/S	1	42	7.2	20		9766

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
160	24881	<i>Daphnia pulex</i>	10102188	0.2	/BEH//	pre-adult, 0.91 mm	LAB/S/S	1	42	7.2	20		9766
160	24563	<i>Gammarus pseudolimnaeus</i>	10102188	6.5	LC50/MOR/INC/	0.015 g, 8.4 mm, adult	LAB//C	1	48.3	6.8	16.3		20295
160	24566	<i>Gammarus pseudolimnaeus</i>	10102188	3.4	LC50/ITX/INC/	adult, 9.3 mm tl, 23.1 mg wwgt	LAB/S/C	1	53.6	7.11	22		58078
160	24569	<i>Gammarus pseudolimnaeus</i>	10102188	7.7	LC50/MOR/INC/	0.015 g, 8.4 mm, adult	LAB//C	1	48.3	6.8	16.3		20295
160	24572	<i>Gammarus pseudolimnaeus</i>	10102188	5	LC50/MOR/INC/	adult, 9.3 mm tl, 23.1 mg wwgt	LAB/S/C	1	53.6	7.11	22		58078
160	24985	<i>Gammarus pseudolimnaeus</i>	13410010	0.163	LC50/MOR/INC/	0.010 g, 6 mm, adult	LAB//C	1	46.1	7.14	17.6		20295
160	24988	<i>Gammarus pseudolimnaeus</i>	13410010	0.148	LC50/ITX/INC/	adult, 9.2 mm tl, 17.9 mg wwgt	LAB/S/C	1	51	6.99	21.9		58078
160	24991	<i>Gammarus pseudolimnaeus</i>	13410010	0.163	LC50/MOR/INC/	0.010 g, 6 mm, adult	LAB//C	1	46.1	7.14	17.6		20295
160	24994	<i>Gammarus pseudolimnaeus</i>	13410010	0.158	LC50/MOR/INC/	adult, 9.2 mm tl, 17.9 mg wwgt	LAB/S/C	1	51	6.99	21.9		58078
160	25005	<i>Hydra</i>	13410010	25	EC50/BEH/INC/	<0.001 g, adult	LAB//C	1	53.6	7.64	25		20295
160	24790	<i>Spirostomum ambiguum</i>	10102188	55.6	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
160	24792	<i>Spirostomum ambiguum</i>	10102188	55.6	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
161	Vertebrates exposed to selenium at <15degC over 3-30 days exposure												
161	24467	<i>Catostomus commersoni</i>	10102188	3.14	LC50/MOR//	17.7 g, 121 mm, fork length	LAB/F/I	4	18	6.37	12.1	water profile given	10228
161	24468	<i>Catostomus commersoni</i>	10102188	5	LT50/MOR//	17.7 g, 121 mm, fork length	LAB/F/I	4.17	18	6.37	12.1	water profile given	10228
161	24469	<i>Catostomus commersoni</i>	10102188	30	LT50/MOR//		LAB/F/I	3.13	10.2	6.37	11.7	water profile, conductivity 29.57 uscm	10226
161	24862	<i>Catostomus commersoni</i>	10102188	29	/MOR//		LAB/F/I	4	10.2	6.37	11.7	water profile, conductivity 29.57 uscm	10226
161	24883	<i>Esox lucius</i>	10102188	11.1	/MOR//		LAB/F/I	3.15	10.2	6.37	11.7	water profile, conductivity 29.57 uscm	10226
161	25028	<i>Oncorhynchus kisutch</i>	13410010	379	LC50/MOR//	alevine, 29.8 mm, 0.24 g	LAB/S/S	4		7	12		3956
161	25029	<i>Oncorhynchus kisutch</i>	13410010	74	LC50/MOR//	juvenile, 41.6 mm, 0.47 g	LAB/S/S	4		7	12		3956

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
161	24291	<i>Oncorhynchus mykiss</i>	7782492	48	LC50/MOR/INC/		LAB/F/C	4	45	7.68	9.9		56474
161	24292	<i>Oncorhynchus mykiss</i>	7782492	45	LC50/MOR/INC/		LAB/F/C	4	45	7.68	9.9		56474
161	24716	<i>Oncorhynchus mykiss</i>	10102188	1.8	LC50/MOR//		LAB/S/I	4	40	7.2	12		12333
161	24717	<i>Oncorhynchus mykiss</i>	10102188	12.5	LC50/MOR//	125 mm	LAB/F/S	4	36	7.81	12	conductivity	10208
161	24720	<i>Oncorhynchus mykiss</i>	10102188	5.41	LC50/MOR/INC/	0.8 g	LAB/F/C	9	135	7.89	15	fed daily	2079
161	24721	<i>Oncorhynchus mykiss</i>	10102188	6.92	LC50/MOR/INC/	0.8 g	LAB/F/C	9	135	7.89	15	fed every other day	2079
161	24722	<i>Oncorhynchus mykiss</i>	10102188	7.02	LC50/MOR/INC/	0.8 g	LAB/F/C	9	135	7.89	15	unfed	2079
161	24723	<i>Oncorhynchus mykiss</i>	10102188	8.8	LC50/MOR/INC/	0.8 g	LAB/F/C	4	135	7.89	15	unfed	2079
161	24724	<i>Oncorhynchus mykiss</i>	10102188	7.2	LC50/MOR/INC/	0.8 g	LAB/F/C	4	135	7.89	15	fed daily	2079
161	24725	<i>Oncorhynchus mykiss</i>	10102188	8.2	LC50/MOR/INC/	0.8 g	LAB/F/C	4	135	7.89	15	fed every other day	2079
161	24726	<i>Oncorhynchus mykiss</i>	10102188	11.5	LC50/MOR/INC/	60 mm	LAB/F/C	4	30	7.25	9		20720
161	24727	<i>Oncorhynchus mykiss</i>	10102188	5	LC50/MOR/INC/	60 mm	LAB/F/C	16	30	7.25	9		20720
161	24848	<i>Oncorhynchus mykiss</i>	10102188	10.4	NR-LETH/MOR/INC/	60 mm	LAB/F/C	16	30	7.25	9		20720
161	24849	<i>Oncorhynchus mykiss</i>	10102188	1.1	NR-ZERO/MOR/NEF/	60 mm	LAB/F/C	16	30	7.25	9		20720
161	24894	<i>Oncorhynchus mykiss</i>	10102188	10	/MOR//	egg, late-eyed stage	LAB/S/S	5		6.325	14.5		10229
161	24895	<i>Oncorhynchus mykiss</i>	10102188	0.1	/MOR//	egg, late-eyed stage	LAB/S/S	5		6.325	14.5		10229
161	24896	<i>Oncorhynchus mykiss</i>	10102188	0.3	/MOR//	egg, late-eyed stage	LAB/S/S	5		6.325	14.5		10229
161	24897	<i>Oncorhynchus mykiss</i>	10102188	1	/MOR//	egg, late-eyed stage	LAB/S/S	5		6.325	14.5		10229
161	24898	<i>Oncorhynchus mykiss</i>	10102188	3	/MOR//	egg, late-eyed stage	LAB/S/S	5		6.325	14.5		10229
161	24899	<i>Oncorhynchus mykiss</i>	10102188	10	/MOR//	egg, late-eyed stage	LAB/S/S	5		6.325	14.5		10229

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
161	24900	<i>Oncorhynchus mykiss</i>	10102188	1	/MOR//	egg, late-eyed stage	LAB/S/S	7.6	90	7.84	9.25		10229
161	24901	<i>Oncorhynchus mykiss</i>	10102188	0.1	/MOR//	egg, late-eyed stage	LAB/S/S	7.6	90	7.84	9.25		10229
161	24902	<i>Oncorhynchus mykiss</i>	10102188	0.3	/MOR//	egg, late-eyed stage	LAB/S/S	7.6	90	7.84	9.25		10229
161	24903	<i>Oncorhynchus mykiss</i>	10102188	1	/MOR//	egg, late-eyed stage	LAB/S/S	7.6	90	7.84	9.25		10229
161	25033	<i>Oncorhynchus mykiss</i>	13410010	4.18	LC50/MOR/INC/	eggs	LAB/R/C	28	104	7.4	13		5305
161	25034	<i>Oncorhynchus mykiss</i>	13410010	470	LC50/MOR//	alevin, 20.8 mm, 0.10 g	LAB/S/S	4		7	12		3956
161	25035	<i>Oncorhynchus mykiss</i>	13410010	32.3	LC50/MOR//	juvenile, 49.6 mm, 1.04 g	LAB/S/S	4		7	12		3956
161	25036	<i>Oncorhynchus mykiss</i>	13410010	5.17	LC50/MOR//	egg	LAB/R/S	28	101	7.35	12.5		11838
161	24920	<i>Perca flavescens</i>	10102188	4.8	/MOR//		LAB/F/I	10	10.2	6.37	11.7	water profile, conductivity 29.57 uscm	10226
161	24347	<i>Percidae</i>	7782492	0.025	/MOR/DEC/SIG		LAB/S/S	11	300	7.86	15	polluted organisms	6344
161	24348	<i>Percidae</i>	7782492	0.006	/MOR/NEF/NOSIG		LAB/S/S	11	300	7.86	15	polluted organisms	6344
161	24387	<i>Percidae</i>	7782492	0.014	/MOR/CHG/		LAB/S/S	11	300	7.86	15	polluted organisms	6344
161	24388	<i>Percidae</i>	7782492	0.006	/MPH/INC/		LAB/S/S	11	300	7.86	15	polluted organisms	6344
161	24762	<i>Pimephales promelas</i>	10102188	10.5	LC50/MOR/INC/	4.31 cm, 0.58 g	LAB/S/C	4	312	7.35	13.35	rep a	19753
161	24763	<i>Pimephales promelas</i>	10102188	11.3	LC50/MOR/INC/	4.31 cm, 0.58 g	LAB/S/C	4	312	7.35	13.35	rep b	19753
161	25109	<i>Thymallus arcticus</i>	13410010	100	LC50/MOR//	alevin, 14.3 mm, 0.01 g	LAB/S/S	4		7	12		3956
161	25110	<i>Thymallus arcticus</i>	13410010	180	LC50/MOR//	juvenile, 62.4 mm, 1.44 g	LAB/S/S	4		7	12		3956
162	Vertebrates exposed to selenium at >15degC over 3-30 days exposure												
162	24178	<i>Carassius auratus</i>	7446084	17.2	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	7	148	7.63	25.4		2149
162	24185	<i>Carassius auratus</i>	7446084	36.6	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	4	148	7.63	25.4		2149
162	24186	<i>Carassius auratus</i>	7446084	32.7	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	5	148	7.63	25.4		2149
162	24187	<i>Carassius auratus</i>	7446084	13	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	9	148	7.63	25.4		2149

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
162	24188	<i>Carassius auratus</i>	7446084	11.5	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	11	148	7.63	25.4		2149
162	24189	<i>Carassius auratus</i>	7446084	8.8	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	14	148	7.63	25.4		2149
162	24190	<i>Carassius auratus</i>	7446084	22.3	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	6	148	7.63	25.4		2149
162	24856	<i>Carassius auratus</i>	10102188	10	/MOR//	60-90 mm, 3-5 g	LAB/S/I	5.04		7.3	20.5	conductivity < 50 umho	916
162	24955	<i>Carassius auratus</i>	13410010	8.78	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
162	24473	<i>Catostomus latipinnis</i>	10102188	19.1	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	4	144	7.65	25		18979
162	24959	<i>Catostomus latipinnis</i>	13410010	26.9	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	4	144	7.65	25		18979
162	24193	<i>Colisa fasciata</i>	7446084	2.25	LC50/MOR//	adult, 48-54 mm, 2.85-3.28 g	LAB/R/S	5	71.3	7.2	23.5		4373
162	24195	<i>Colisa fasciata</i>	7446084	2.65	LC50/MOR//	adult, 48-54 mm, 2.85-3.28 g	LAB/R/S	4	71.3	7.2	23.5		4373
162	24511	<i>Cyprinus carpio</i>	10102188	35	LC50/MOR//	3 g, 5 cm	LAB/R/S	4		7.8	23.65		5292
162	24241	<i>Danio rerio</i>	7446084	10	/MOR//	embryo	LAB/R/S	10	47.5	7	26		8159
162	24242	<i>Danio rerio</i>	7446084	1	/MOR//	larva	LAB/R/S	10	47.5	7	26		8159
162	24243	<i>Danio rerio</i>	7446084	3	/MOR//	embryo, 1-27 h old	LAB/R/S	7	47.5	7	26		8159
162	24244	<i>Danio rerio</i>	7446084	3	/MOR//	larva	LAB/R/S	7	47.5	7	26		8159
162	24997	<i>Gastrophryne carolinensis</i>	13410010	0.09	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
162	24577	<i>Gila elegans</i>	10102188	19	LC50/MOR/INC/	swimup fry, 11-18 d	LAB/S/C	4	196	7.75	25		15346
162	24578	<i>Gila elegans</i>	10102188	17	LC50/MOR/INC/	1.1 g, juvenile, 138-145 d	LAB/S/C	4	196	7.75	25		15346
162	24579	<i>Gila elegans</i>	10102188	15	LC50/MOR/INC/	2.6 g, juvenile, 220-234 d	LAB/S/C	4	196	7.75	25		15346
162	24837	<i>Gila elegans</i>	10102188	22	NR-LETH/MOR/INC/	1.1 g, juvenile, 138-145 g	LAB/S/C	4	196	7.75	25		15346
162	24838	<i>Gila elegans</i>	10102188	13	NR-ZERO/MOR/NEF/	1.1 g, juvenile, 138-145 g	LAB/S/C	4	196	7.75	25		15346
162	24998	<i>Gila elegans</i>	13410010	55	LC50/MOR/INC/	swimup fry, 11-18 d	LAB/S/C	4	196	7.75	25		15346
162	24999	<i>Gila elegans</i>	13410010	246	LC50/MOR/INC/	1.1 g, juvenile, 138-145 d	LAB/S/C	4	196	7.75	25		15346
162	25000	<i>Gila elegans</i>	13410010	217	LC50/MOR/INC/	2.6 g, juvenile, 220-234 d	LAB/S/C	4	196	7.75	25		15346
162	24200	<i>Ictalurus punctatus</i>	7446084	19.1	LC50/MOR//	juvenile, 6 mo, 64.5 mm, 2.4 g	LAB/F/S	3.92	140	7.93	24.9		2149

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
162	24588	<i>Ictalurus punctatus</i>	10102188	16	LC50/MOR/INC/	47 mm sl, 1.32 g, juvenile	LAB//C	4	49.8	7.91	16.6		20295
162	24591	<i>Ictalurus punctatus</i>	10102188	16	LC50/MOR/INC/	47 mm sl, 1.32 g, juvenile	LAB//C	4	49.8	7.91	16.6		20295
162	24592	<i>Ictalurus punctatus</i>	10102188	6.1	LC50/MOR/INC/	0.7g	LAB/S/	4	41	7.7	22		6797
162	25007	<i>Ictalurus punctatus</i>	13410010	66	LC50/MOR/INC/	1.32 g, juvenile, 43 mm sl	LAB//C	4	51	7.3	17.4		20295
162	25008	<i>Ictalurus punctatus</i>	13410010	66	LC50/MOR/INC/	1.32 g, juvenile, 43 mm sl	LAB//C	4	51	7.3	17.4		20295
162	25141	<i>Ictalurus punctatus</i>	13410010	31	NR-ZERO/MOR/NEF/	1.32 g, juvenile, 43 mm sl	LAB//C	6	51	7.3	17.4		20295
162	24206	<i>Jordanella floridae</i>	7446084	11.2	LT50/MOR/INC/	juvenile, 2 mo, 14.7 mm, 0.059 g	LAB/F/S	3.46	152	7.9	24.5		2149
162	24208	<i>Lepomis macrochirus</i>	7446084	27.7	LC50/MOR//	juvenile, 6 mo, 65.3 mm, 4.0 g	LAB/F/S	8	150	7.75	24.9		2149
162	24209	<i>Lepomis macrochirus</i>	7446084	30.7	LC50/MOR//	juvenile, 6 mo, 65.3 mm, 4.0 g	LAB/F/S	7	150	7.75	24.9		2149
162	24211	<i>Lepomis macrochirus</i>	7446084	23.6	LC50/MOR//	juvenile, 6 mo, 65.3 mm, 4.0 g	LAB/F/S	10	150	7.75	24.9		2149
162	24212	<i>Lepomis macrochirus</i>	7446084	20.5	LC50/MOR//	juvenile, 6 mo, 65.3 mm, 4.0 g	LAB/F/S	12	150	7.75	24.9		2149
162	24214	<i>Lepomis macrochirus</i>	7446084	17.6	LC50/MOR//	juvenile, 6 mo, 65.3 mm, 4.0 g	LAB/F/S	14	150	7.75	24.9		2149
162	24622	<i>Lepomis macrochirus</i>	10102188	12	LC50/MOR/INC/	0.258 g, 22 mm sl, juvenile	LAB//C	4	50.5	7.73	16.8		20295
162	24626	<i>Lepomis macrochirus</i>	10102188	12	LC50/MOR/INC/	0.258 g, 22 mm sl, juvenile	LAB//C	4	50.5	7.73	16.8		20295
162	25010	<i>Lepomis macrochirus</i>	13410010	62	LC50/MOR/INC/	0.269 g, 24 mm, juvenile	LAB//C	4	50.4	7.53	21.9		20295
162	25011	<i>Lepomis macrochirus</i>	13410010	63	LC50/MOR/INC/	0.269 g, 24 mm sl, juvenile	LAB//C	4	50.4	7.53	21.9		20295
162	25142	<i>Lepomis macrochirus</i>	13410010	113	NR-ZERO/MOR/INC/	0.269 g, 24 mm sl, juvenile	LAB//C	6	50.4	7.53	21.9		20295
162	25016	<i>Morone saxatilis</i>	13410010	9.79	LC50/MOR/INC/		LAB/F/C	4		7.6	18.75		18109
162	25017	<i>Morone saxatilis</i>	13410010	13.02	LC50/MOR/INC/		LAB/F/C	4		7.6	18.75		18109
162	24738	<i>Oncorhynchus mykiss</i>	10102188	0.46	LC50/MOR/INC/	2.78(2.4-3.0) cm	LAB/F/C	21	334	7.3	17.4		19753
162	24847	<i>Oncorhynchus mykiss</i>	10102188	0.475	/HIS/INC/	2.78(2.4-3.0) cm	LAB/F/C	21	334	7.3	17.4		19753

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
162	24915	<i>Oncorhynchus mykiss</i>	10102188	0.475	/GRO/CHG/	2.78(2.4-3.0) cm	LAB/F/C	21	334	7.3	17.4		19753
162	25032	<i>Oncorhynchus mykiss</i>	13410010	20	LC50/MOR/INC/	1.30 g, juvenile, 43 mm	LAB//C	4	51	7.5	15.8		20295
162	25039	<i>Oncorhynchus mykiss</i>	13410010	24	LC50/MOR/INC/	1.30 g, juvenile, 43 mm	LAB//C	4	51	7.5	15.8		20295
162	25145	<i>Oncorhynchus mykiss</i>	13410010	61	NR-LETH/MOR/INC/	1.30 g, juvenile, 43 mm	LAB//C	4	51	7.5	15.8		20295
162	24215	<i>Pimephales promelas</i>	7446084	7.3	LC50/MOR//	juvenile, 3 mo, 20.7 mm, 0.085 g	LAB/F/S	4	151	7.8	24.7		2149
162	24217	<i>Pimephales promelas</i>	7446084	4.5	LC50/MOR//	juvenile, 3 mo, 20.7 mm, 0.085 g	LAB/F/S	5	151	7.8	24.7		2149
162	24218	<i>Pimephales promelas</i>	7446084	3.2	LC50/MOR//	juvenile, 3 mo, 20.7 mm, 0.085 g	LAB/F/S	6	151	7.8	24.7		2149
162	24219	<i>Pimephales promelas</i>	7446084	2.9	LC50/MOR//	juvenile, 3 mo, 20.7 mm, 0.085 g	LAB/F/S	7	151	7.8	24.7		2149
162	24224	<i>Pimephales promelas</i>	7446084	2.9	LC50/MOR//	fry, 1 d, 5 mm	LAB/F/S	4	151	7.8	24.7		2149
162	24321	<i>Pimephales promelas</i>	7782492	1	LC50/MOR//	fry, 0.03 g, 17 mm, 25-35 d	LAB/F/I	4	329	7.3	25	water profile rptd	486
162	24322	<i>Pimephales promelas</i>	7782492	0.6	LC50/MOR//	fry, 0.03 g, 17 mm, 25-35 d	LAB/F/I	14	329	7.3	25	water profile rptd	486
162	24323	<i>Pimephales promelas</i>	7782492	0.001	LT50/MOR//	2 d, egg	LAB/R/I	5	329	7.3	25	water profile rptd	486
162	24324	<i>Pimephales promelas</i>	7782492	0.005	LT50/MOR//	2 d, egg	LAB/R/I	3.54	329	7.3	25	water profile rptd	486
162	24389	<i>Pimephales promelas</i>	7782492	40	/MOR//	2 d, egg	LAB/F/I	17	329	7.3	25	water profile rptd	486
162	24390	<i>Pimephales promelas</i>	7782492	15	/DVP//	2 d, egg	LAB/F/I	17	329	7.3	25	water profile rptd	486
162	24391	<i>Pimephales promelas</i>	7782492	10	/DVP//	2 d, egg	LAB/F/I	17	329	7.3	25	water profile rptd	486
162	24751	<i>Pimephales promelas</i>	10102188	1.7	LC50/MOR/INC/	0.061 g, 28 d, 16 mm sl	LAB//C	4	51.1	7.29	22.2		20295
162	24761	<i>Pimephales promelas</i>	10102188	1.7	LC50/MOR/INC/	0.061 g, 28 d, 16 mm sl	LAB//C	4	51.1	7.29	22.2		20295
162	24769	<i>Pimephales promelas</i>	10102188	10	LC50/MOR/INC/	0.7g	LAB/S/	4	40	7.4	22		6797
162	25068	<i>Pimephales promelas</i>	13410010	2.3	LC50/MOR/INC/	30 d, 20 mm sl, 0.114 g	LAB//C	4	47.9	7.4	22.3		20295

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
162	25077	<i>Pimephales promelas</i>	13410010	2.3	LC50/MOR/INC/	30 d, 20 mm sl, 0.114 g	LAB//C	4	47.9	7.4	22.3		20295
162	25078	<i>Pimephales promelas</i>	13410010	5.5	LC50/MOR/INC/		LAB/F/C	4	46	7.9	25		56474
162	25154	<i>Pimephales promelas</i>	13410010	9.7	NR-LETH/MOR/INC/		LAB/F/C	4	46	7.9	25		56474
162	24783	<i>Ptychocheilus lucius</i>	10102188	14	LC50/MOR/INC/	swimup fry, 17-31 d	LAB/S/C	4	196	7.75	25		15346
162	24784	<i>Ptychocheilus lucius</i>	10102188	36	LC50/MOR/INC/	0.4-1.1 g, juvenile, 99-115 d	LAB/S/C	4	196	7.75	25		15346
162	24785	<i>Ptychocheilus lucius</i>	10102188	32	LC50/MOR/INC/	1.7 g, juvenile, 193-207 d	LAB/S/C	4	196	7.75	25		15346
162	25102	<i>Ptychocheilus lucius</i>	13410010	66	LC50/MOR/INC/	swimup fry, 17-31 d	LAB/S/C	4	196	7.75	25		15346
162	25103	<i>Ptychocheilus lucius</i>	13410010	286	LC50/MOR/INC/	0.4-1.1 g, juvenile, 99-115 d	LAB/S/C	4	196	7.75	25		15346
162	25104	<i>Ptychocheilus lucius</i>	13410010	331	LC50/MOR/INC/	1.7 g, juvenile, 193-207 d	LAB/S/C	4	196	7.75	25		15346
162	24228	<i>Salvelinus fontinalis</i>	7446084	14.3	LC50/MOR//	adult, 1.8 mo, 210.8 mm, 99.6 g	LAB/F/S	4	148	7.8	15.5		2149
162	24794	<i>Stizostedion vitreum</i>	10102188	11.7	LC50/MOR/INC/	juvenile, 66.7 mm	LAB/F/C	4	380	7.8	21		20360
162	24808	<i>Xyrauchen texanus</i>	10102188	15	LC50/MOR/INC/	swimup fry, 10-17 d	LAB/S/C	4	196	7.75	25		15346
162	24809	<i>Xyrauchen texanus</i>	10102188	8.9	LC50/MOR/INC/	0.9 g, juvenile 133-139 d	LAB/S/C	4	196	7.75	25		15346
162	24810	<i>Xyrauchen texanus</i>	10102188	16	LC50/MOR/INC/	2.0 g, juvenile, 176-186 d	LAB/S/C	4	196	7.75	25		15346
162	25112	<i>Xyrauchen texanus</i>	13410010	48	LC50/MOR/INC/	swimup fry, 10-17 d	LAB/S/C	4	196	7.75	25		15346
162	25113	<i>Xyrauchen texanus</i>	13410010	36	LC50/MOR/INC/	0.9 g, juvenile, 133-139 d	LAB/S/C	4	196	7.75	25		15346
162	25114	<i>Xyrauchen texanus</i>	13410010	25	LC50/MOR/INC/	2.0 g, juvenile, 176-186 d	LAB/S/C	4	196	7.75	25		15346
163	Vertebrates exposed to selenium at >15degC over 1-3 days exposure												
163	24182	<i>Carassius auratus</i>	7446084	60.2	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	1.5	148	7.63	25.4		2149
163	24183	<i>Carassius auratus</i>	7446084	46.5	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	2	148	7.63	25.4		2149
163	24184	<i>Carassius auratus</i>	7446084	41.2	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	2.5	148	7.63	25.4		2149
163	24240	<i>Carassius auratus</i>	7446084	0.25	/BEH//	4-8 cm	LAB/S/S	2		6.45	23	conductance 15-18 x 1000000 ohms,50 ppm caco3 added	908

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
163	24471	<i>Catostomus latipinnis</i>	10102188	23	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	2	144	7.65	25		18979
163	24472	<i>Catostomus latipinnis</i>	10102188	20.5	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	3	144	7.65	25		18979
163	24957	<i>Catostomus latipinnis</i>	13410010	52.7	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	2	144	7.65	25		18979
163	24958	<i>Catostomus latipinnis</i>	13410010	37.9	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	3	144	7.65	25		18979
163	24192	<i>Colisa fasciata</i>	7446084	5.77	LC50/MOR//	adult, 48-54 mm, 2.85-3.28 g	LAB/R/S	2	71.3	7.2	23.5		4373
163	24194	<i>Colisa fasciata</i>	7446084	4.34	LC50/MOR//	adult, 48-54 mm, 2.85-3.28 g	LAB/R/S	3	71.3	7.2	23.5		4373
163	24510	<i>Cyprinus carpio</i>	10102188	50	LC50/MOR//	3 g, 5 cm	LAB/R/S	2		7.8	23.65		5292
163	24199	<i>Ictalurus punctatus</i>	7446084	40.2	LC50/MOR//	juvenile, 6 mo, 64.5 mm, 2.4 g	LAB/F/S	1.17	140	7.93	24.9		2149
163	24201	<i>Ictalurus punctatus</i>	7446084	24.9	LC50/MOR//	juvenile, 6 mo, 64.5 mm, 2.4 g	LAB/F/S	2.17	140	7.93	24.9		2149
163	24587	<i>Ictalurus punctatus</i>	10102188	18	LC50/MOR/INC/	47 mm sl, 1.32 g, juvenile	LAB//C	2	49.8	7.91	16.6		20295
163	24590	<i>Ictalurus punctatus</i>	10102188	18	LC50/MOR/INC/	47 mm sl, 1.32 g, juvenile	LAB//C	2	49.8	7.91	16.6		20295
163	24202	<i>Jordanella floridae</i>	7446084	21.8	LT50/MOR/INC/	juvenile, 2 mo, 14.7 mm, 0.059 g	LAB/F/S	2.85	152	7.9	24.5		2149
163	24203	<i>Jordanella floridae</i>	7446084	27.9	LT50/MOR/INC/	juvenile, 2 mo, 14.7 mm, 0.059 g	LAB/F/S	2.31	152	7.9	24.5		2149
163	24204	<i>Jordanella floridae</i>	7446084	44.3	LT50/MOR/INC/	juvenile, 2 mo, 14.7 mm, 0.059 g	LAB/F/S	1.85	152	7.9	24.5		2149
163	24205	<i>Jordanella floridae</i>	7446084	16.9	LT50/MOR/INC/	juvenile, 2 mo, 14.7 mm, 0.059 g	LAB/F/S	2.8	152	7.9	24.5		2149
163	24621	<i>Lepomis macrochirus</i>	10102188	24	LC50/MOR/INC/	0.258 g, 22 mm sl, juvenile	LAB//C	2	50.5	7.73	16.8		20295
163	24625	<i>Lepomis macrochirus</i>	10102188	24	LC50/MOR/INC/	0.258 g, 22 mm sl, juvenile	LAB//C	2	50.5	7.73	16.8		20295
163	24840	<i>Lepomis macrochirus</i>	10102188	126	NR-LETH/MOR/INC/	0.258 g, 22 mm sl, juvenile	LAB//C	2	50.5	7.73	16.8		20295
163	25031	<i>Oncorhynchus mykiss</i>	13410010	36	LC50/MOR/INC/	1.30 g, juvenile, 43 mm	LAB//C	2	51	7.5	15.8		20295
163	25038	<i>Oncorhynchus mykiss</i>	13410010	41	LC50/MOR/INC/	1.30 g, juvenile, 43 mm	LAB//C	2	51	7.5	15.8		20295

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
163	24220	<i>Pimephales promelas</i>	7446084	24.3	LC50/MOR//	juvenile, 3 mo, 20.7 mm, 0.085 g	LAB/F/S	1.02	151	7.8	24.7		2149
163	24221	<i>Pimephales promelas</i>	7446084	19.5	LC50/MOR//	juvenile, 3 mo, 20.7 mm, 0.085 g	LAB/F/S	1.25	151	7.8	24.7		2149
163	24222	<i>Pimephales promelas</i>	7446084	15.6	LC50/MOR//	juvenile, 3 mo, 20.7 mm, 0.085 g	LAB/F/S	1.75	151	7.8	24.7		2149
163	24223	<i>Pimephales promelas</i>	7446084	10.9	LC50/MOR//	juvenile, 3 mo, 20.7 mm, 0.085 g	LAB/F/S	3	151	7.8	24.7		2149
163	24325	<i>Pimephales promelas</i>	7782492	1	LT50/MOR//	2 d, egg	LAB/R/I	2.58	329	7.3	25	water profile rptd	486
163	24326	<i>Pimephales promelas</i>	7782492	1.5	LT50/MOR//	2 d, egg	LAB/R/I	1.38	329	7.3	25	water profile rptd	486
163	24327	<i>Pimephales promelas</i>	7782492	20	LT50/MOR//	2 d, egg	LAB/R/I	1.04	329	7.3	25	water profile rptd	486
163	25067	<i>Pimephales promelas</i>	13410010	3.4	LC50/MOR/INC/	30 d, 20 mm sl, 0.114 g	LAB//C	2	47.9	7.4	22.3		20295
163	25076	<i>Pimephales promelas</i>	13410010	3.4	LC50/MOR/INC/	30 d, 20 mm sl, 0.114 g	LAB//C	2	47.9	7.4	22.3		20295
163	25153	<i>Pimephales promelas</i>	13410010	6	NR-LETH/MOR/INC/	30 d, 20 mm sl, 0.114 g	LAB//C	3	47.9	7.4	22.3		20295
163	24227	<i>Salvelinus fontinalis</i>	7446084	23.8	LC50/MOR//	adult, 1.8 mo, 210.8 mm, 99.6 g	LAB/F/S	2	148	7.8	15.5		2149
164	Vertebrates exposed to selenium at >15degC over <=1 day exposure												
164	24179	<i>Carassius auratus</i>	7446084	110	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	0.5	148	7.63	25.4		2149
164	24180	<i>Carassius auratus</i>	7446084	76.5	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	0.75	148	7.63	25.4		2149
164	24181	<i>Carassius auratus</i>	7446084	71.3	LC50/MOR//	juvenile, 6 mo, 62.0 mm, 2.4 g	LAB/F/S	1	148	7.63	25.4		2149
164	24857	<i>Carassius auratus</i>	10102188	100	/MOR//	60-90 mm, 3-5 g	LAB/S/I	0.57		7.7	20.5	conductivity 723 umho	916
164	24470	<i>Catostomus latipinnis</i>	10102188	29.6	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	1	144	7.65	25		18979
164	24956	<i>Catostomus latipinnis</i>	13410010	84	LC50/MOR/INC/	12-13 d, larvae	LAB/S/C	1	144	7.65	25		18979
164	24191	<i>Colisa fasciata</i>	7446084	9.99	LC50/MOR//	adult, 48-54 mm, 2.85-3.28 g	LAB/R/S	1	71.3	7.2	23.5		4373
164	24509	<i>Cyprinus carpio</i>	10102188	72	LC50/MOR//	3 g, 5 cm	LAB/R/S	1		7.8	23.65		5292
164	24198	<i>Ictalurus punctatus</i>	7446084	46.7	LC50/MOR//	juvenile, 6 mo, 64.5 mm, 2.4 g	LAB/F/S	0.96	140	7.93	24.9		2149

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
164	24586	<i>Ictalurus punctatus</i>	10102188	21	LC50/MOR/INC/	47 mm sl, 1.32 g, juvenile	LAB//C	1	49.8	7.91	16.6		20295
164	24589	<i>Ictalurus punctatus</i>	10102188	21	LC50/MOR/INC/	47 mm sl, 1.32 g, juvenile	LAB//C	1	49.8	7.91	16.6		20295
164	24839	<i>Ictalurus punctatus</i>	10102188	33	NR-LETH/MOR/INC/	47 mm sl, 1.32 g, juvenile	LAB//C	1	49.8	7.91	16.6		20295
164	24239	<i>Jordanella floridae</i>	7446084	21.25	/MOR//NOSIG	juvenile, 3 mo, 26.5 mm, 0.412 g	LAB/F/S	1	151	7.84	24.6	fed and unfed	2149
164	24246	<i>Jordanella floridae</i>	7446084	21.25	/GRO//	juvenile, 3 mo., 26.5 mm, 0.412 g	LAB/F/I	1	151	7.84	24.6	fed and unfed	2149
164	24207	<i>Lepomis macrochirus</i>	7446084	77.3	LC50/MOR//	juvenile, 6 mo, 65.3 mm, 4.0 g	LAB/F/S	1	150	7.75	24.9		2149
164	24210	<i>Lepomis macrochirus</i>	7446084	82.1	LC50/MOR//	juvenile, 6 mo, 65.3 mm, 4.0 g	LAB/F/S	0.75	150	7.75	24.9		2149
164	24213	<i>Lepomis macrochirus</i>	7446084	126.6	LC50/MOR//	juvenile, 6 mo, 65.3 mm, 4.0 g	LAB/F/S	0.33	150	7.75	24.9		2149
164	24620	<i>Lepomis macrochirus</i>	10102188	53	LC50/MOR/INC/	0.258 g, 22 mm sl, juvenile	LAB//C	1	50.5	7.73	16.8		20295
164	24624	<i>Lepomis macrochirus</i>	10102188	53	LC50/MOR/INC/	0.258 g, 22 mm sl, juvenile	LAB//C	1	50.5	7.73	16.8		20295
164	25030	<i>Oncorhynchus mykiss</i>	13410010	52	LC50/MOR/INC/	1.30 g, juvenile, 43 mm	LAB//C	1	51	7.5	15.8		20295
164	25037	<i>Oncorhynchus mykiss</i>	13410010	62	LC50/MOR/INC/	1.30 g, juvenile, 43 mm	LAB//C	1	51	7.5	15.8		20295
164	24917	<i>Oryzias latipes</i>	10102188	50.5	/MOR//	fry, 8 d	LAB/S/S	1	10.5	6.9	25		12151
164	24216	<i>Pimephales promelas</i>	7446084	28.6	LC50/MOR//	juvenile, 4 mo, 39.0 mm, 0.511 g	LAB/F/S	0.92	151	7.84	24.6	fed and unfed	2149
164	24225	<i>Pimephales promelas</i>	7446084	31.2	LC50/MOR//	juvenile, 3 mo, 20.7 mm, 0.085 g	LAB/F/S	0.77	151	7.8	24.7		2149
164	24226	<i>Pimephales promelas</i>	7446084	27.9	LC50/MOR//	juvenile, 3 mo, 20.7 mm, 0.085 g	LAB/F/S	0.9	151	7.8	24.7		2149
164	24247	<i>Pimephales promelas</i>	7446084	21.25	/GRO//	juvenile, 4 mo., 39.0 mm, 0.511 g	LAB/F/I	1	151	7.84	24.6	fed and unfed	2149
164	24328	<i>Pimephales promelas</i>	7782492	25	LT50/MOR//	2 d, egg	LAB/R/I	0.46	329	7.3	25	water profile rptd	486
164	24329	<i>Pimephales promelas</i>	7782492	30	LT50/MOR//	2 d, egg	LAB/R/I	0.58	329	7.3	25	water profile rptd	486
164	24330	<i>Pimephales promelas</i>	7782492	0.04	LT50/MOR//	2 d, egg	LAB/R/I	0.5	329	7.3	25	water profile rptd	486

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
164	25066	<i>Pimephales promelas</i>	13410010	6.2	LC50/MOR/INC/	30 d, 20 mm sl, 0.114 g	LAB//C	1	47.9	7.4	22.3		20295
164	25075	<i>Pimephales promelas</i>	13410010	6.2	LC50/MOR/INC/	30 d, 20 mm sl, 0.114 g	LAB//C	1	47.9	7.4	22.3		20295
164	25184	<i>Pimephales promelas</i>	13410010	11.2	/AVO//	0.9 g	LAB/F/S	0.02	51	7.7	16	conductivity 136 umhos	10986
164	24229	<i>Salvelinus fontinalis</i>	7446084	87.3	LC50/MOR//	adult, 1.8 mo, 210.8 mm, 99.6 g	LAB/F/S	0.25	148	7.8	15.5		2149
164	24230	<i>Salvelinus fontinalis</i>	7446084	70.3	LC50/MOR//	adult, 1.8 mo, 210.8 mm, 99.6 g	LAB/F/S	0.29	148	7.8	15.5		2149
164	24231	<i>Salvelinus fontinalis</i>	7446084	36.3	LC50/MOR//	adult, 1.8 mo, 210.8 mm, 99.6 g	LAB/F/S	1	148	7.8	15.5		2149
165	Arthropods exposed to zinc in moderately hard water at >15degC over 1-3 days exposure												
165	28001	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB//I	2	100	7.85	21		2050
165	28002	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB//I	3	100	7.85	21		2050
165	26258	<i>Ceriodaphnia dubia</i>	7440666	0.07	LC50/MOR/INC/	neonates	LAB/R/	2	97.6	6	25	water from new river, virginia	8661
165	26259	<i>Ceriodaphnia dubia</i>	7440666	0.101	LC50/MOR/INC/	neonates	LAB/R/	2	97.6	8	25	water from new river, virginia	8661
165	26264	<i>Ceriodaphnia dubia</i>	7440666	0.065	LC50/MOR/INC/	neonates	LAB/R/	2	113.6	6	25	water from amy bayou louisiana	8661
165	26265	<i>Ceriodaphnia dubia</i>	7440666	0.12	LC50/MOR/INC/	neonates	LAB/R/	2	113.6	8	25	water from amy bayou louisiana	8661
165	26771	<i>Chydorus sphaericus</i>	7646857	4.96	LC50/ITX/INC/	adult	LAB/S/S	2	83.6	6.66	18	organism from polluted lake, eutrophic level	4258
165	28479	<i>Daphnia magna</i>	7733020	1.06	LC50/MOR/INC/	neonates, clone c	LAB/S/C	2	90.7	7.73	20		19146
165	28480	<i>Daphnia magna</i>	7733020	0.457	LC50/MOR/INC/	neonates, clone a	LAB/S/C	2	90.7	7.73	20		19146
165	27598	<i>Ranatra elongata</i>	7646857	2.456	LC50/MOR/INC/		LAB//C	2	112.4	7.5	26		11919
165	27599	<i>Ranatra elongata</i>	7646857	1.943	LC50/MOR/INC/		LAB//C	3	112.4	7.5	26		11919
166	Arthropods exposed to zinc in soft water at <15degC over 1-3 days exposure												
166	27991	<i>Asellus aquaticus</i>	7733020	52.3	LC50/ITX//	adult, 7 mm, 1.5 mg dry wt	LAB/R/I	2	50	6.75	13	stock soln acidified with hno3	11972
166	28161	<i>Chironomus tentans</i>	7733020	8.2	LC50/ITX/INC/	3rd instar larvae	LAB/S/C	2	25	6.3	14		4553
166	28218	<i>Crangonyx pseudogracilis</i>	7733020	121	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	2	50	6.75	13	stock soln acidified with hno3	11972
166	28449	<i>Daphnia magna</i>	7733020	2.3	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
166	28450	<i>Daphnia magna</i>	7733020	1.7	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
166	28451	<i>Daphnia magna</i>	7733020	1.1	LC50/MOR//		LAB/S/S	2	45	7.5	15		518

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
166	28501	<i>Daphnia pulex</i>	7733020	1.6	LC50/MOR//		LAB/S/S	2	45	7.5	5	518	
166	28502	<i>Daphnia pulex</i>	7733020	1.2	LC50/MOR//		LAB/S/S	2	45	7.5	10	518	
166	28503	<i>Daphnia pulex</i>	7733020	0.94	LC50/MOR//		LAB/S/S	2	45	7.5	15	518	
167	Arthropods exposed to zinc in soft water at >15degC over 3-30 days exposure												
167	27989	<i>Argia</i>	7733020	180	LC50/MOR//		LAB/I	4	20	7.3	21	2050	
167	27990	<i>Argia</i>	7733020	100	LC50/MOR//		LAB/I	5	20	7.3	21	2050	
167	28007	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB/I	4	20	7.3	21	2050	
167	26750	<i>Ceriodaphnia dubia</i>	7646857	0.18	LC50/MOR//	< 4 h	LAB/R/S	7	52	7.3	25	water parameters rpt, lake superior	2124
167	26751	<i>Ceriodaphnia dubia</i>	7646857	0.164	LC50/MOR//	< 4 h	LAB/R/S	7	36	7	25	water parameters rpt, naugatuck river, station 1, aug 31	2124
167	26752	<i>Ceriodaphnia dubia</i>	7646857	0.149	LC50/MOR//	< 4 h	LAB/R/S	7	36	7.5	25	water parameters rpt, naugatuck river, station 1, aug 31	2124
167	27768	<i>Ceriodaphnia dubia</i>	7646857	0.14	/REP//	< 4 h	LAB/R/S	7	32	7.25	25	water parameters rpt, naugatuck river, station 1, aug 26	2124
167	26277	<i>Chironomus</i>	7440666	18.2	LC50/MOR//		LAB/S/I	4	50	7.6	17	2020	
167	28384	<i>Daphnia carinata</i>	7733020	0.057	LC50/MOR/INC/	adult	LAB/C	4	37.6	7.3	26.75	45139	
167	26835	<i>Daphnia magna</i>	7646857	0.158	LC50/ITX//	12 h old	LAB/R/I	21	45.3	7.74	18	see paper	2022
167	26836	<i>Daphnia magna</i>	7646857	0.102	EC50/REP//	12 h old	LAB/R/I	21	45.3	7.74	18	see paper	2022
167	27792	<i>Daphnia magna</i>	7646857	0.074	/REP//		LAB/R/I	21	45	7.8	18	11698	
167	27793	<i>Daphnia magna</i>	7646857	0.14	/REP//		LAB/R/I	21	45	7.8	18	11698	
167	26337	<i>Gammarus</i>	7440666	8.1	LC50/MOR//		LAB/S/I	4	50	7.6	17	2020	
167	26589	<i>Hyalella azteca</i>	7440666		/MOR/CHG/		LAB/L/C	10	56.1	7.65	23	sediment from 3 sampling sites	18024
167	28832	<i>Mesocyclops hyalinus</i>	7733020	3.8	LC50/MOR/INC/	adult	LAB/C	4	37.6	7.3	26.75	45139	
167	26920	<i>Moina irrasa</i>	7646857	0.25	EC50/REP/DEC/	<24 h, neonates	LAB/R/C	13.5	5	7	20	18008	
167	26930	<i>Moina irrasa</i>	7646857	0.103	LC50/MOR/INC/	neonate, <24 h	LAB/S/	4	5	6.5	20	13762	
167	26938	<i>Moina irrasa</i>	7646857	0.05	LOEC/REP/DEC/SIG	<24 h, neonates	LAB/R/C	13.5	5	7	20	18008	
167	26939	<i>Moina irrasa</i>	7646857	0.025	NOEC/REP/DEC/NOSIG	<24 h, neonates	LAB/R/C	13.5	5	7	20	18008	
167	27728	<i>Moina irrasa</i>	7646857	0.113	/REP/CHG/MULT	<24 h, neonates	LAB/R/C	13.5	5	7	20	18008	
167	28850	<i>Moina macrocopa</i>	7733020	0.058	LC50/MOR/INC/	adult	LAB/C	4	37.6	7.3	26.75	45139	

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
167	29035	<i>Orconectes virilis</i>	7733020	84	LC50/MOR//	adult intermolt, males and females	LAB/F/S	14	26	7.1	18		11975
167	29437	<i>Stenocypris malcolmsoni</i>	7733020	3.5	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
167	27604	<i>Tanytarsus dissimilis</i>	7646857	0.037	LC50/MOR//	2nd and 3rd instar egg	LAB/S/U	10	46.8	7.5	22		5249
167	26549	<i>Trichoptera</i>	7440666	58.1	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
168	Arthropods exposed to zinc in soft water at >15degC over 1-3 days exposure												
168	27987	<i>Argia</i>	7733020	320	LC50/MOR//		LAB//I	2	20	7.3	21		2050
168	27988	<i>Argia</i>	7733020	320	LC50/MOR//		LAB//I	3	20	7.3	21		2050
168	28005	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB//I	2	20	7.3	21		2050
168	28006	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB//I	3	20	7.3	21		2050
168	26749	<i>Ceriodaphnia dubia</i>	7646857	0.163	LC50/MOR//	< 4 h	LAB/S/S	2	32	7.25	25	water parameters rpt, naugatuck river, station 1, aug 26	2124
168	28100	<i>Ceriodaphnia reticulata</i>	7733020	1.4	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
168	28101	<i>Ceriodaphnia reticulata</i>	7733020	0.14	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
168	28102	<i>Ceriodaphnia reticulata</i>	7733020	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
168	29711	<i>Chironomus decorus</i>	7733020	28.28	/MOR//		LAB//U	3	60	7.575	21		2050
168	26769	<i>Chydorus sphaericus</i>	7646857	0.44	LC50/ITX/INC/	adult	LAB/S/S	2	11.7	6.48	18	organism from non polluted lake, mesotrophic level	4258
168	26770	<i>Chydorus sphaericus</i>	7646857	0.253	LC50/ITX/INC/	adult	LAB/S/S	2	10.5	6.41	18	organism from pristine lake, dystrophic level	4258
168	28383	<i>Daphnia carinata</i>	7733020	2.3	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
168	28385	<i>Daphnia carinata</i>	7733020	0.45	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
168	28386	<i>Daphnia carinata</i>	7733020	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
168	26833	<i>Daphnia magna</i>	7646857	0.28	LC50/ITX//	12 h old	LAB/S/I	2	45.3	7.74	18	see paper	2022
168	26834	<i>Daphnia magna</i>	7646857	0.1	LC50/ITX//	12 h old	LAB/S/I	2	45.3	7.74	18	see paper	2022
168	26845	<i>Daphnia magna</i>	7646857	0.334	LC50/MOR//	< 1 d	LAB/S/I	2	54	7.6	19.5	water parameters rpt	3621
168	28452	<i>Daphnia magna</i>	7733020	0.28	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
168	28453	<i>Daphnia magna</i>	7733020	0.56	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
168	28477	<i>Daphnia magna</i>	7733020	0.259	LC50/MOR/INC/	neonates, clone c	LAB/S/C	2	46.1	7.2	20		19146

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
168	28478	<i>Daphnia magna</i>	7733020	0.131	LC50/MOR/INC/	neonates, clone a	LAB/S/C	2	46.1	7.2	20		19146
168	26856	<i>Daphnia pulex</i>	7646857	0.38	LC50/MOR/INC/	>=6 d	LAB/S/C	2	46	7.5	21		3402
168	26857	<i>Daphnia pulex</i>	7646857	0.26	LC50/MOR/INC/	>=6 d	LAB/S/C	2	46	7.5	21		3402
168	28504	<i>Daphnia pulex</i>	7733020	0.5	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
168	28505	<i>Daphnia pulex</i>	7733020	0.28	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
168	28831	<i>Mesocyclops hyalinus</i>	7733020	0.004	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
168	28833	<i>Mesocyclops hyalinus</i>	7733020	1.4	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
168	28834	<i>Mesocyclops hyalinus</i>	7733020	0.08	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
168	26925	<i>Moina irrasa</i>	7646857	0.153	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	20		13762
168	26926	<i>Moina irrasa</i>	7646857	0.205	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	8	20		13762
168	26928	<i>Moina irrasa</i>	7646857	0.125	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	6.5	20		13762
168	26929	<i>Moina irrasa</i>	7646857	0.034	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	8	20		13762
168	26934	<i>Moina irrasa</i>	7646857	0.093	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	25		13762
168	26937	<i>Moina irrasa</i>	7646857	0.059	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	8	30		13762
168	28849	<i>Moina macrocopa</i>	7733020	0.12	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
168	28851	<i>Moina macrocopa</i>	7733020	0.025	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
168	28858	<i>Moina macrocopa</i>	7733020	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
168	29436	<i>Stenocypris malcolmsoni</i>	7733020	5.25	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
168	29438	<i>Stenocypris malcolmsoni</i>	7733020	0.8	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
168	29439	<i>Stenocypris malcolmsoni</i>	7733020	0.045	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
169	Arthropods exposed to zinc in soft water at >15degC over <=1 day exposure												
169	27986	<i>Argia</i>	7733020	320	LC50/MOR//		LAB//I	1	20	7.3	21		2050
169	28004	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB//I	1	20	7.3	21		2050
169	26276	<i>Chironomus</i>	7440666	21.5	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
169	28457	<i>Daphnia magna</i>	7733020	1	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
169	28458	<i>Daphnia magna</i>	7733020	0.79	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
169	26854	<i>Daphnia pulex</i>	7646857	0.74	LC50/MOR/INC/	>=6 d	LAB/S/C	1	46	7.5	21		3402
169	26855	<i>Daphnia pulex</i>	7646857	0.36	LC50/MOR/INC/	>=6 d	LAB/S/C	1	46	7.5	21		3402
169	28509	<i>Daphnia pulex</i>	7733020	0.56	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
169	28510	<i>Daphnia pulex</i>	7733020	0.46	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
169	26336	<i>Gammarus</i>	7440666	10.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
169	26922	<i>Moina irrasa</i>	7646857	0.307	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	20		13762

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
169	26923	<i>Moina irrasa</i>	7646857	0.327	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	20	13762	
169	26932	<i>Moina irrasa</i>	7646857	0.182	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	25	13762	
169	26935	<i>Moina irrasa</i>	7646857	0.081	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	30	13762	
169	26936	<i>Moina irrasa</i>	7646857	0.255	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	30	13762	
169	26548	<i>Trichoptera</i>	7440666	62.6	LC50/MOR//		LAB/S/I	1	50	7.6	17	2020	
170	Invertebrates exposed to zinc in hard water at >15degC over 1-3 days exposure												
170	26839	<i>Daphnia magna</i>	7646857	0.1261	LC50/MOR//	juvenile	LAB/F/S	3	130	6.95	20	ca, conductivity, cd, fe, zn, ni, cu	15484
170	26840	<i>Daphnia magna</i>	7646857	0.4203	LC50/MOR//	juvenile	LAB/F/S	2.5	130	6.95	20	ca, conductivity, cd, fe, zn, ni, cu	15484
170	26841	<i>Daphnia magna</i>	7646857	0.7989	LC50/MOR//	juvenile	LAB/F/S	2	130	6.95	20	ca, conductivity, cd, fe, zn, ni, cu	15484
170	26842	<i>Daphnia magna</i>	7646857	0.8611	LC50/MOR//	juvenile	LAB/F/S	1.5	130	6.95	20	ca, conductivity, cd, fe, zn, ni, cu	15484
170	26853	<i>Daphnia pulex</i>	7646857	0.2325	LC50/MOR//	adult	LAB/S/S	2	127	7.9	20		7195
170	28537	<i>Elimia livescens</i>	7733020	13.5	LC50/MOR/INC/		LAB/S/C	2	154	7.8	23.5		6109
170	28792	<i>Lymnaea emarginata angulata</i>	7733020	4.15	LC50/MOR//		LAB/S/S	2	154	7.8	23.5		6109
170	26917	<i>Lymnaea stagnalis</i>	7646857	5.6	LC50/ITX//	19-35 mm	LAB/S/I	2	162.5	8	21.5		8355
170	29087	<i>Philodina acuticornis</i>	7733020	4.3	LC50/ITX/INC/		LAB/S/C	2	154	6.7	20	16:8 h photoperiod	14130
170	29208	<i>Physa integra</i>	7733020	4.4	LC50/MOR//		LAB/S/S	2	154	7.8	23.5		6109
170	29484	<i>Viviparus bengalensis</i>	7733020	1.764	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	2	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
170	29485	<i>Viviparus bengalensis</i>	7733020	0.965	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	3	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
171	Invertebrates exposed to zinc in hard water at >15degC over <=1 day exposure												
171	28054	<i>Ceriodaphnia dubia</i>	7733020	0.95	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.04	170	7.8	25		19116
171	28055	<i>Ceriodaphnia dubia</i>	7733020	0.85	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.04	170	7.8	25		19116
171	28056	<i>Ceriodaphnia dubia</i>	7733020	0.85	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.04	170	7.8	25		19116
171	28057	<i>Ceriodaphnia dubia</i>	7733020	0.85	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.04	170	7.8	25		19116
171	28058	<i>Ceriodaphnia dubia</i>	7733020	7.5	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.08	170	7.8	25		19116
171	28059	<i>Ceriodaphnia dubia</i>	7733020	0.65	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.08	170	7.8	25		19116
171	28060	<i>Ceriodaphnia dubia</i>	7733020	0.45	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.08	170	7.8	25		19116
171	28061	<i>Ceriodaphnia dubia</i>	7733020	0.35	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.08	170	7.8	25		19116
171	28062	<i>Ceriodaphnia dubia</i>	7733020	0.35	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.08	170	7.8	25		19116

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
171	28063	<i>Ceriodaphnia dubia</i>	7733020	0.35	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.08	170	7.8	25		19116
171	28064	<i>Ceriodaphnia dubia</i>	7733020	0.35	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.08	170	7.8	25		19116
171	28065	<i>Ceriodaphnia dubia</i>	7733020	0.35	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.08	170	7.8	25		19116
171	28066	<i>Ceriodaphnia dubia</i>	7733020	0.35	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.17	170	7.8	25		19116
171	28067	<i>Ceriodaphnia dubia</i>	7733020	0.45	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.17	170	7.8	25		19116
171	28068	<i>Ceriodaphnia dubia</i>	7733020	0.3	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.17	170	7.8	25		19116
171	28069	<i>Ceriodaphnia dubia</i>	7733020	0.25	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.17	170	7.8	25		19116
171	28070	<i>Ceriodaphnia dubia</i>	7733020	0.25	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.17	170	7.8	25		19116
171	28071	<i>Ceriodaphnia dubia</i>	7733020	0.25	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.17	170	7.8	25		19116
171	28072	<i>Ceriodaphnia dubia</i>	7733020	0.25	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.17	170	7.8	25		19116
171	28073	<i>Ceriodaphnia dubia</i>	7733020	0.25	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.17	170	7.8	25		19116
171	28074	<i>Ceriodaphnia dubia</i>	7733020	1.5	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.02	170	7.8	25		19116
171	28075	<i>Ceriodaphnia dubia</i>	7733020	1.5	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.02	170	7.8	25		19116
171	28076	<i>Ceriodaphnia dubia</i>	7733020	1.5	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.02	170	7.8	25		19116
171	28077	<i>Ceriodaphnia dubia</i>	7733020	1.5	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.02	170	7.8	25		19116
171	28078	<i>Ceriodaphnia dubia</i>	7733020	1.5	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.02	170	7.8	25		19116
171	28079	<i>Ceriodaphnia dubia</i>	7733020	1.5	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.02	170	7.8	25		19116
171	28080	<i>Ceriodaphnia dubia</i>	7733020	0.75	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.04	170	7.8	25		19116
171	28081	<i>Ceriodaphnia dubia</i>	7733020	0.75	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.04	170	7.8	25		19116
171	28082	<i>Ceriodaphnia dubia</i>	7733020	0.75	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.04	170	7.8	25		19116
171	28083	<i>Ceriodaphnia dubia</i>	7733020	0.85	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.04	170	7.8	25		19116
171	28084	<i>Ceriodaphnia dubia</i>	7733020	1.5	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.02	170	7.8	25		19116
171	28085	<i>Ceriodaphnia dubia</i>	7733020	0.85	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.04	170	7.8	25		19116
171	28086	<i>Ceriodaphnia dubia</i>	7733020	0.3	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.08	170	7.8	25		19116
171	28087	<i>Ceriodaphnia dubia</i>	7733020	0.2	LC50/ITX/INC/	neonates, <24 h	LAB/S/C	0.17	170	7.8	25		19116
171	28094	<i>Ceriodaphnia dubia</i>	7733020	0.15	LT50/MOR/INC/	<24 h	LAB/S/	0.09	170	7.8	25		20375
171	28095	<i>Ceriodaphnia dubia</i>	7733020	0.48	LT50/MOR/INC/	<24 h	LAB/S/	0.09	170	7.8	25		20375
171	28096	<i>Ceriodaphnia dubia</i>	7733020	1	LT50/MOR/INC/	<24 h	LAB/S/	0.09	170	7.8	25		20375
171	28097	<i>Ceriodaphnia dubia</i>	7733020	1.5	LT50/MOR/INC/	<24 h	LAB/S/	0.09	170	7.8	25		20375
171	28098	<i>Ceriodaphnia dubia</i>	7733020	2.5	LT50/MOR/INC/	<24 h	LAB/S/	0.09	170	7.8	25		20375
171	28099	<i>Ceriodaphnia dubia</i>	7733020	4.8	LT50/MOR/INC/	<24 h	LAB/S/	0.09	170	7.8	25		20375
171	28536	<i>Elimia livescens</i>	7733020	18	LC50/MOR//		LAB/S/S	1	154	7.8	23.5		6109
171	28791	<i>Lymnaea emarginata angulata</i>	7733020	4.4	LC50/MOR//		LAB/S/S	1	154	7.8	23.5		6109
171	26914	<i>Lymnaea stagnalis</i>	7646857	64	LC50/ITX//	19-35 mm	LAB/S/I	0.25	162.5	8	21.5		8355
171	26915	<i>Lymnaea stagnalis</i>	7646857	10	LC50/ITX//	19-35 mm	LAB/S/I	0.58	162.5	8	21.5		8355
171	26916	<i>Lymnaea stagnalis</i>	7646857	6.7	LC50/ITX//	19-35 mm	LAB/S/I	1	162.5	8	21.5		8355

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
171	29086	<i>Philodina acuticornis</i>	7733020	5.7	LC50/ITX/INC/		LAB/S/C	1	154	6.7	20	16:8 h photoperiod	14130
171	29207	<i>Physa integra</i>	7733020	5.8	LC50/MOR//		LAB/S/S	1	154	7.8	23.5		6109
171	29482	<i>Viviparus bengalensis</i>	7733020	4.763	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	0.5	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
171	29483	<i>Viviparus bengalensis</i>	7733020	3.515	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	1	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
172	Invertebrates exposed to zinc in moderately hard water at >15degC over 3-30 days exposure												
172	28003	<i>Asellus communis</i>	7733020	38.5	LC50/MOR//		LAB/I	4	100	7.85	21		2050
172	26557	<i>Ceriodaphnia dubia</i>	7440666	0.0375	/REP/CHG/MULT	neonates, 12-24 h	LAB/R/C	7	97.6	7.5	25	water from new river, virginia	8661
172	26560	<i>Ceriodaphnia dubia</i>	7440666	0.075	/REP/DEC/MULT	neonates, 12-24 h	LAB/R/C	7	113.6	7.5	25	water from amy bayou louisiana	8661
172	26566	<i>Chironomus thummi</i>	7440666	0.2813	/POP/DEC/SIG	3rd instar larvae	LAB/F/C	4	90	7.6	20		16983
172	26567	<i>Chironomus thummi</i>	7440666	0.125	/POP/DEC/NOSIG	4th instar larvae	LAB/F/C	5	90	7.6	20		16983
172	26568	<i>Chironomus thummi</i>	7440666	0.25	/POP/DEC/SIG	4th instar larvae	LAB/F/C	5	90	7.6	20		16983
172	28628	<i>Helisoma campanulatum</i>	7733020	1.27	LC50/MOR//	adult	LAB/I	4	100	7.8	22.8		3692
172	28681	<i>Hyalella azteca</i>	7733020	0.436	LC50/MOR/INC/	21 d, 6 genotypes	LAB/C	4	100	8	20		20474
172	28684	<i>Hydra vulgaris</i>	7733020	6.63	LC50/MOR/INC/	polyps, budding, non-budding	LAB/C	4	108	7.5	20		18616
172	28771	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	4	100	7.85	21		2050
172	28772	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	5	100	7.85	21		2050
172	28773	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	6	100	7.85	21		2050
172	28774	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	7	100	7.85	21		2050
172	28775	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	8	100	7.85	21		2050
172	28776	<i>Limnodrilus hoffmeisteri</i>	7733020	7.8	LC50/MOR//		LAB/I	10.83	100	7.85	21		2050
172	26677	<i>Macrobrachium hendersodayanus</i>	7440666	9	/HIS/INC/	adult, 4.5 cm, 1.1 g	LAB/C	9.5	65	7.2	26		16205
172	29083	<i>Philodina acuticornis</i>	7733020	1.1	LC50/ITX/INC/		LAB/S/C	4	103	6.9	20	16:8 h photoperiod	14130
172	29169	<i>Physa heterostropha</i>	7733020	3.16	LC50/MOR//	adult, 12-15 mm	LAB/I	4	100	7.8	21		3692

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
172	29194	<i>Physa heterostropha</i>	7733020	1.7	LC50/MOR//	young, 3-6 mm	LAB//I	4	100	7.8	20	uncooked wheatena present in dilution water as organic	3692
172	30371	<i>Plankton</i>	7733020	0.77	/POP/DEC/SIG	epilithic communities	FIELDA/O/S	12.5	82.2	7.86	19.6	glass rods, streams	3631
172	30373	<i>Plankton</i>	7733020	0.77	/BCM/CHG/MULT	epilithic communities	FIELDA/O/S	12.5	82.2	7.86	19.6	glass rods, streams	3631
172	30374	<i>Plankton</i>	7733020	0.77	/PHY/CHG/MULT	epilithic communities	FIELDA/O/S	12.5	82.2	7.86	19.6	glass rods, streams	3631
172	30375	<i>Plankton</i>	7733020	0.77	/POP/NEF/NOSIG	epilithic communities	FIELDA/O/S	20	82.2	7.86	19.6	glass rods, streams	3631
172	30385	<i>Plankton</i>	7733020	0.77	/PRS/NEF/	epilithic communities	FIELDA/O/S	20	82.2	7.86	19.6	glass rods, streams	3631
172	29984	<i>Protozoa</i>	7733020	0.1225	/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	21	73.8	7.78	20.5		19367
172	27600	<i>Ranatra elongata</i>	7646857	1.658	LC50/MOR/INC/		LAB//C	4	112.4	7.5	26		11919
173	Invertebrates exposed to zinc in moderately hard water at >15degC over 1-3 days exposure												
173	27966	<i>Aquatic community</i>	7733020	0.992	IC20/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
173	27967	<i>Aquatic community</i>	7733020	1.42	IC20/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
173	27968	<i>Aquatic community</i>	7733020	1.086	IC20/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
173	27969	<i>Aquatic community</i>	7733020	1.693	IC20/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
173	27970	<i>Aquatic community</i>	7733020	0.087	IC20/PRS/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
173	27971	<i>Aquatic community</i>	7733020	0.605	IC20/PRS/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
173	27972	<i>Aquatic community</i>	7733020	0.01	IC20/PHY/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
173	27973	<i>Aquatic community</i>	7733020	0.001	IC20/PHY/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
173	27974	<i>Aquatic community</i>	7733020	0.034	IC20/PRS/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
173	27975	<i>Aquatic community</i>	7733020	0.501	IC20/PRS/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
173	27976	<i>Aquatic community</i>	7733020	1.196	LOEC/POP//SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
173	27977	<i>Aquatic community</i>	7733020	1.196	LOEC/POP//SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
173	27978	<i>Aquatic community</i>	7733020	2.816	LOEC/POP/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
173	27979	<i>Aquatic community</i>	7733020	1.196	LOEC/POP/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
173	27980	<i>Aquatic community</i>	7733020	0.425	LOEC/PRS/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
173	27981	<i>Aquatic community</i>	7733020	1.196	LOEC/PRS/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
173	27982	<i>Aquatic community</i>	7733020	10.078	LOEC/PHY/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
173	27983	<i>Aquatic community</i>	7733020	2.816	LOEC/PHY/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
173	27984	<i>Aquatic community</i>	7733020	0.425	LOEC/PRS/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
173	27985	<i>Aquatic community</i>	7733020	2.816	LOEC/PRS/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
173	28001	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB/I	2	100	7.85	21		2050
173	28002	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB/I	3	100	7.85	21		2050
173	26258	<i>Ceriodaphnia dubia</i>	7440666	0.07	LC50/MOR/INC/	neonates	LAB/R/	2	97.6	6	25	water from new river, virginia	8661
173	26259	<i>Ceriodaphnia dubia</i>	7440666	0.101	LC50/MOR/INC/	neonates	LAB/R/	2	97.6	8	25	water from new river, virginia	8661
173	26264	<i>Ceriodaphnia dubia</i>	7440666	0.065	LC50/MOR/INC/	neonates	LAB/R/	2	113.6	6	25	water from amy bayou louisiana	8661
173	26265	<i>Ceriodaphnia dubia</i>	7440666	0.12	LC50/MOR/INC/	neonates	LAB/R/	2	113.6	8	25	water from amy bayou louisiana	8661
173	26771	<i>Chydorus sphaericus</i>	7646857	4.96	LC50/ITX/INC/	adult	LAB/S/S	2	83.6	6.66	18	organism from polluted lake, eutrophic level	4258
173	28479	<i>Daphnia magna</i>	7733020	1.06	LC50/MOR/INC/	neonates, clone c	LAB/S/C	2	90.7	7.73	20		19146
173	28480	<i>Daphnia magna</i>	7733020	0.457	LC50/MOR/INC/	neonates, clone a	LAB/S/C	2	90.7	7.73	20		19146
173	28626	<i>Helisoma campanulatum</i>	7733020	5.29	LC50/MOR//	adult	LAB/I	2	100	7.8	22.8		3692
173	28627	<i>Helisoma campanulatum</i>	7733020	1.27	LC50/MOR//	adult	LAB/I	3	100	7.8	22.8		3692
173	28682	<i>Hydra vulgaris</i>	7733020	6.67	EC50/FDB/DEC/	polyps, budding, non-budding	LAB/R/C	2	108	7.45	20		18616

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
173	28683	<i>Hydra vulgaris</i>	7733020	26.63	LC50/MOR/INC/	polyps, budding, non-budding	LAB/C	3	108	7.5	20		18616
173	28769	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	2	100	7.85	21		2050
173	28770	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	3	100	7.85	21		2050
173	29084	<i>Philodina acuticornis</i>	7733020	2.4	LC50/ITX/INC/		LAB/S/C	2	103	6.9	20	16:8 h photoperiod	14130
173	29105	<i>Philodina acuticornis</i>	7733020	3.1	LC50/ITX/INC/		LAB/S/C	2	72	7.1	20	12:12 h photoperiod	14130
173	29106	<i>Philodina acuticornis</i>	7733020	1.3	LC50/ITX/INC/		LAB/S/C	2	76	6.8	20	12:12 h photoperiod	14130
173	29115	<i>Philodina acuticornis</i>	7733020	2	LC50/ITX/INC/		LAB/S/C	2	98	7.4	20	12:12 h photoperiod	14130
173	29128	<i>Philodina acuticornis</i>	7733020	5.9	LC50/ITX/INC/		LAB/S/C	2	81	7.8	20	12:12 h photoperiod	14130
173	29129	<i>Philodina acuticornis</i>	7733020	2.5	LC50/ITX/INC/		LAB/S/C	2	88	7.4	20	12:12 h photoperiod	14130
173	29130	<i>Philodina acuticornis</i>	7733020	4.6	LC50/ITX/INC/		LAB/S/C	2	104	7.8	20	12:12 h photoperiod	14130
173	29131	<i>Philodina acuticornis</i>	7733020	5.7	LC50/ITX/INC/		LAB/S/C	2	107	8	20	12:12 h photoperiod	14130
173	29146	<i>Philodina acuticornis</i>	7733020	2.4	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
173	29147	<i>Philodina acuticornis</i>	7733020	2	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
173	29167	<i>Physa heterostropha</i>	7733020	3.62	LC50/MOR//	adult, 12-15 mm	LAB/I	2	100	7.8	21		3692
173	29168	<i>Physa heterostropha</i>	7733020	3.16	LC50/MOR//	adult, 12-15 mm	LAB/I	3	100	7.8	21		3692
173	29192	<i>Physa heterostropha</i>	7733020	2.76	LC50/MOR//	young, 3-6 mm	LAB/I	2	100	7.8	20	uncooked wheatena present in dilution water as organic	3692
173	29193	<i>Physa heterostropha</i>	7733020	1.96	LC50/MOR//	young, 3-6 mm	LAB/I	3	100	7.8	20	uncooked wheatena present in dilution water as organic	3692
173	29985	Protozoa	7733020	5.2515	/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73-172 ugl	19367
173	27598	<i>Ranatra elongata</i>	7646857	2.456	LC50/MOR/INC/		LAB/C	2	112.4	7.5	26		11919
173	27599	<i>Ranatra elongata</i>	7646857	1.943	LC50/MOR/INC/		LAB/C	3	112.4	7.5	26		11919

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
174	<i>Invertebrates exposed to zinc in moderately hard water at >15degC over <=1 day exposure</i>												
174	28000	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB//I	1	100	7.85	21		2050
174	26569	<i>Chironomus thummi</i>	7440666	0.2813	/PHY/DEC/SIG	3-4 instar larvae	LAB/F/C	1	90	7.6	20		16983
174	29718	<i>Corbicula manilensis</i>	7733020	0.5	/BEH//		LAB/R/S	1	75	7	25	conductivity	12874
174	26837	<i>Daphnia magna</i>	7646857	6.713	LC50/MOR//	24 h	LAB/S/I	1	70	7.65	21		5718
174	28625	<i>Helisoma campanulatum</i>	7733020	5.29	LC50/MOR//	adult	LAB//I	1	100	7.8	22.8		3692
174	28768	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB//I	1	100	7.85	21		2050
174	29085	<i>Philodina acuticornis</i>	7733020	1.4	LC50/ITX/INC/		LAB/S/C	1	103	6.9	20	16:8 h photoperiod	14130
174	29102	<i>Philodina acuticornis</i>	7733020	1.1	LC50/ITX/INC/		LAB/S/C	1	63	6.6	20	12:12 h photoperiod	14130
174	29103	<i>Philodina acuticornis</i>	7733020	0.6	LC50/ITX/INC/		LAB/S/C	1	63	6.6	20	12:12 h photoperiod	14130
174	29104	<i>Philodina acuticornis</i>	7733020	3.2	LC50/ITX/INC/		LAB/S/C	1	72	7.1	20	12:12 h photoperiod	14130
174	29107	<i>Philodina acuticornis</i>	7733020	1	LC50/ITX/INC/		LAB/S/C	1	76	6.8	20	12:12 h photoperiod	14130
174	29114	<i>Philodina acuticornis</i>	7733020	2.5	LC50/ITX/INC/		LAB/S/C	1	98	7.4	20	12:12 h photoperiod	14130
174	29145	<i>Philodina acuticornis</i>	7733020	4.1	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019
174	29148	<i>Philodina acuticornis</i>	7733020	2.6	LC50/ITX/INC/		LAB/S/C	1	81	7.6	20		2019
174	29166	<i>Physa heterostropha</i>	7733020	4.07	LC50/MOR//	adult, 12-15 mm	LAB//I	1	100	7.8	21		3692
174	29191	<i>Physa heterostropha</i>	7733020	3.5	LC50/MOR//	young, 3-6 mm	LAB//I	1	100	7.8	20	uncooked wheatena present in dilution water as organic	3692
174	27597	<i>Ranatra elongata</i>	7646857	2.853	LC50/MOR/INC/		LAB//C	1	112.4	7.5	26		11919
174	29440	<i>Streptocephalus proboscideus</i>	7733020	4	LC50/MOR/INC/	instar ii-iii nauplii	LAB/S/C	1	90	7.9	25		14250
174	29441	<i>Streptocephalus proboscideus</i>	7733020	3	LC50/MOR/INC/	instar ii-iii nauplii	LAB/S/C	1	90	7.6	25		14250
175	<i>Invertebrates exposed to zinc in soft water at <15degC over 3-30 days exposure</i>												
175	27992	<i>Asellus aquaticus</i>	7733020	18.2	LC50/ITX//	adult, 7 mm, 1.5 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
175	29721	<i>Corbicula manilensis</i>	7733020	0.535	/ENZ/DEC/		LAB/F/C	30	60	7.675	11	artificial stream	19368
175	28219	<i>Crangonyx pseudogracilis</i>	7733020	19.8	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	4	50	6.75	13	stock soln acidified with hno3	11972
175	28527	<i>Drunella grandis</i>	7733020	9.2	LC50/MOR/INC/	naiads, <0.01 g	LAB/F/C	14	50	7.1	6		10198
175	28624	<i>Helisoma campanulatum</i>	7733020	0.87	LC50/MOR//	adult	LAB/I	4	20	7.3	12.8		3692
175	29118	<i>Philodina acuticornis</i>	7733020	2.5	LC50/ITX/INC/		LAB/S/C	4	34	7.8	10	12:12 h photoperiod	14130
175	27501	<i>Physa gyrina</i>	7646857	1.274	LC50/MOR//	mature	LAB/F/I	4	36	6.9	15		11982
175	27502	<i>Physa gyrina</i>	7646857	0.771	LC50/MOR//	mature	LAB/F/I	30	36	6.9	15		11982
175	27503	<i>Physa gyrina</i>	7646857	0.57	NOEC/MOR//	mature	LAB/F/I	30	36	6.9	15		11982
175	29182	<i>Physa heterostropha</i>	7733020	0.303	LC50/MOR//	young, 3-6 mm	LAB/I	4	20	7.3	10.6	uncooked wheatena present in dilution water as organic	3692
175	29190	<i>Physa heterostropha</i>	7733020	0.434	LC50/MOR//	young, 3-6 mm	LAB/I	4	20	7.3	12.8	uncooked wheatena present in dilution water as organic	3692
175	29369	<i>Pteronarcys californicus</i>	7733020	13.9	LC50/MOR/INC/	naiads	LAB/F/C	14	50	7.1	6		10198
176	Invertebrates exposed to zinc in soft water at <15degC over 1-3 days exposure												
176	27904	<i>Aeolosoma headleyi</i>	7733020	18.1	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
176	27905	<i>Aeolosoma headleyi</i>	7733020	17.6	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
176	27906	<i>Aeolosoma headleyi</i>	7733020	15.6	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
176	27928	<i>Anculosa</i>	7733020	4.8	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
176	27929	<i>Anculosa</i>	7733020	4.6	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
176	27930	<i>Anculosa</i>	7733020	2.8	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
176	26552	<i>Anodonta cygnea zellensis</i>	7440666	0.55	/MOR/INC/MULT	glochidia	LAB/C	2	31.25	6.15	13		13719
176	27991	<i>Asellus aquaticus</i>	7733020	52.3	LC50/ITX//	adult, 7 mm, 1.5 mg dry wt	LAB/R/I	2	50	6.75	13	stock soln acidified with hno3	11972
176	28161	<i>Chironomus tentans</i>	7733020	8.2	LC50/ITX/INC/	3rd instar larvae	LAB/S/C	2	25	6.3	14		4553
176	28218	<i>Crangonyx pseudogracilis</i>	7733020	121	LC50/ITX//	adult, 4 mm, 0.2 mg dry wt	LAB/R/I	2	50	6.75	13	stock soln acidified with hno3	11972
176	28449	<i>Daphnia magna</i>	7733020	2.3	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
176	28450	<i>Daphnia magna</i>	7733020	1.7	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
176	28451	<i>Daphnia magna</i>	7733020	1.1	LC50/MOR//		LAB/S/S	2	45	7.5	15		518

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
176	28501	<i>Daphnia pulex</i>	7733020	1.6	LC50/MOR//		LAB/S/S	2	45	7.5	5	518	
176	28502	<i>Daphnia pulex</i>	7733020	1.2	LC50/MOR//		LAB/S/S	2	45	7.5	10	518	
176	28503	<i>Daphnia pulex</i>	7733020	0.94	LC50/MOR//		LAB/S/S	2	45	7.5	15	518	
176	28622	<i>Helisoma campanulatum</i>	7733020	8.07	LC50/MOR//	adult	LAB//I	2	20	7.3	12.8	3692	
176	28623	<i>Helisoma campanulatum</i>	7733020	0.96	LC50/MOR//	adult	LAB//I	3	20	7.3	12.8	3692	
176	29117	<i>Philodina acuticornis</i>	7733020	4.2	LC50/ITX/INC/		LAB/S/C	2	34	7.8	10	12:12 h photoperiod	14130
176	29180	<i>Physa heterostropha</i>	7733020	0.434	LC50/MOR//	young, 3-6 mm	LAB//I	2	20	7.3	10.6	uncooked wheatena present in dilution water as organic	3692
176	29181	<i>Physa heterostropha</i>	7733020	0.303	LC50/MOR//	young, 3-6 mm	LAB//I	3	20	7.3	10.6	uncooked wheatena present in dilution water as organic	3692
176	29188	<i>Physa heterostropha</i>	7733020	0.536	LC50/MOR//	young, 3-6 mm	LAB//I	2	20	7.3	12.8	uncooked wheatena present in dilution water as organic	3692
176	29189	<i>Physa heterostropha</i>	7733020	0.536	LC50/MOR//	young, 3-6 mm	LAB//I	3	20	7.3	12.8	uncooked wheatena present in dilution water as organic	3692
177	<i>Invertebrates exposed to zinc in soft water at <15degC over <=1 day exposure</i>												
177	27909	<i>Aeolosoma headleyi</i>	7733020	19.6	LC50/MOR//		LAB/S/S	1	45	7.5	5	518	
177	27910	<i>Aeolosoma headleyi</i>	7733020	18.3	LC50/MOR//		LAB/S/S	1	45	7.5	10	518	
177	27911	<i>Aeolosoma headleyi</i>	7733020	16	LC50/MOR//		LAB/S/S	1	45	7.5	15	518	
177	27933	<i>Anculosa</i>	7733020	5.71	LC50/MOR//		LAB/S/S	1	45	7.5	5	518	
177	27934	<i>Anculosa</i>	7733020	5.6	LC50/MOR//		LAB/S/S	1	45	7.5	10	518	
177	27935	<i>Anculosa</i>	7733020	3.8	LC50/MOR//		LAB/S/S	1	45	7.5	15	518	
177	28160	<i>Chironomus tentans</i>	7733020	10.83	LC50/ITX/INC/	3rd instar larvae	LAB/S/C	1	25	6.3	14	4553	
177	28454	<i>Daphnia magna</i>	7733020	2.8	LC50/MOR//		LAB/S/S	1	45	7.5	5	518	
177	28455	<i>Daphnia magna</i>	7733020	2.3	LC50/MOR//		LAB/S/S	1	45	7.5	10	518	
177	28456	<i>Daphnia magna</i>	7733020	1.8	LC50/MOR//		LAB/S/S	1	45	7.5	15	518	
177	28506	<i>Daphnia pulex</i>	7733020	2.1	LC50/MOR//		LAB/S/S	1	45	7.5	5	518	
177	28507	<i>Daphnia pulex</i>	7733020	1.8	LC50/MOR//		LAB/S/S	1	45	7.5	10	518	
177	28508	<i>Daphnia pulex</i>	7733020	1.1	LC50/MOR//		LAB/S/S	1	45	7.5	15	518	

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
177	28621	<i>Helisoma campanulatum</i>	7733020	11.07	LC50/MOR//	adult	LAB//I	1	20	7.3	12.8		3692
177	29116	<i>Philodina acuticornis</i>	7733020	4.6	LC50/ITX/INC/		LAB/S/C	1	34	7.8	10	12:12 h photoperiod	14130
177	29179	<i>Physa heterostropha</i>	7733020	0.434	LC50/MOR//	young, 3-6 mm	LAB//I	1	20	7.3	10.6	uncooked wheatena present in dilution water as organic	3692
177	29187	<i>Physa heterostropha</i>	7733020	0.536	LC50/MOR//	young, 3-6 mm	LAB//I	1	20	7.3	12.8	uncooked wheatena present in dilution water as organic	3692
178	<i>Invertebrates exposed to zinc in soft water at >15degC over 3-30 days exposure</i>												
178	27901	<i>Acrossocheilus paradoxus</i>	7733020	0.813	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	4	34	7.35	22		18913
178	29508	<i>Acrossocheilus paradoxus</i>	7733020	2	NR-LETH/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	4	34	7.35	22		18913
178	26237	<i>Amnicola</i>	7440666	20.2	LC50/MOR//	egg	LAB/S/I	4	50	7.6	17		2020
178	26239	<i>Amnicola</i>	7440666	14	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
178	27989	<i>Argia</i>	7733020	180	LC50/MOR//		LAB//I	4	20	7.3	21		2050
178	27990	<i>Argia</i>	7733020	100	LC50/MOR//		LAB//I	5	20	7.3	21		2050
178	28007	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB//I	4	20	7.3	21		2050
178	26750	<i>Ceriodaphnia dubia</i>	7646857	0.18	LC50/MOR//	< 4 h	LAB/R/S	7	52	7.3	25	water parameters rpt, lake superior	2124
178	26751	<i>Ceriodaphnia dubia</i>	7646857	0.164	LC50/MOR//	< 4 h	LAB/R/S	7	36	7	25	water parameters rpt, naugatuck river, station 1, aug 31	2124
178	26752	<i>Ceriodaphnia dubia</i>	7646857	0.149	LC50/MOR//	< 4 h	LAB/R/S	7	36	7.5	25	water parameters rpt, naugatuck river, station 1, aug 31	2124
178	27768	<i>Ceriodaphnia dubia</i>	7646857	0.14	/REP//	< 4 h	LAB/R/S	7	32	7.25	25	water parameters rpt, naugatuck river, station 1, aug 26	2124
178	26277	<i>Chironomus</i>	7440666	18.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
178	29719	<i>Corbicula manilensis</i>	7733020	0.538	/ENZ/CHG/		LAB/F/C	30	55.4	7.845	16.5	artificial stream	19368

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
178	28384	<i>Daphnia carinata</i>	7733020	0.057	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75	45139	
178	26835	<i>Daphnia magna</i>	7646857	0.158	LC50/ITX//	12 h old	LAB/R/I	21	45.3	7.74	18	see paper	2022
178	26836	<i>Daphnia magna</i>	7646857	0.102	EC50/REP//	12 h old	LAB/R/I	21	45.3	7.74	18	see paper	2022
178	27792	<i>Daphnia magna</i>	7646857	0.074	/REP//		LAB/R/I	21	45	7.8	18		11698
178	27793	<i>Daphnia magna</i>	7646857	0.14	/REP//		LAB/R/I	21	45	7.8	18		11698
178	26316	<i>Dugesia tigrina</i>	7440666	7.4	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
178	28530	<i>Dugesia tigrina</i>	7733020	5.48	LC50/MOR//		LAB/S/I	4	40	7.5	23	for other water chem see paper	6154
178	26337	<i>Gammarus</i>	7440666	8.1	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
178	28614	<i>Heliodiaptomus viduus</i>	7733020	0.21	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
178	28632	<i>Helisoma campanulatum</i>	7733020	1.27	LC50/MOR//	adult	LAB//I	4	20	7.3	22.8		3692
178	26589	<i>Hyalella azteca</i>	7440666		/MOR/CHG/		LAB/L/C	10	56.1	7.65	23	sediment from 3 sampling sites	18024
178	26913	<i>Lumbriculus variegatus</i>	7646857	6.3	LC50/MOR/INC/		LAB/S/C	4	30	7.5	20		6502
178	28832	<i>Mesocyclops hyalinus</i>	7733020	3.8	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
178	26920	<i>Moina irrasa</i>	7646857	0.25	EC50/REP/DEC/	<24 h, neonates	LAB/R/C	13.5	5	7	20		18008
178	26930	<i>Moina irrasa</i>	7646857	0.103	LC50/MOR/INC/	neonate, <24 h	LAB/S/	4	5	6.5	20		13762
178	26938	<i>Moina irrasa</i>	7646857	0.05	LOEC/REP/DEC/SIG	<24 h, neonates	LAB/R/C	13.5	5	7	20		18008
178	26939	<i>Moina irrasa</i>	7646857	0.025	NOEC/REP/DEC/NOSIG	<24 h, neonates	LAB/R/C	13.5	5	7	20		18008
178	27728	<i>Moina irrasa</i>	7646857	0.113	/REP/CHG/MULT	<24 h, neonates	LAB/R/C	13.5	5	7	20		18008
178	28850	<i>Moina macrocopa</i>	7733020	0.058	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
178	26408	<i>Nais</i>	7440666	18.4	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
178	29035	<i>Orconectes virilis</i>	7733020	84	LC50/MOR//	adult intermolt, males and females	LAB/F/S	14	26	7.1	18		11975
178	27496	<i>Philodina acuticornis</i>	7646857	1.5	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
178	27497	<i>Philodina acuticornis</i>	7646857	1.3	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
178	29077	<i>Philodina acuticornis</i>	7733020	0.1	LC50/ITX/INC/		LAB/S/C	4	0	7.8	20	16:8 h photoperiod	14130
178	29121	<i>Philodina acuticornis</i>	7733020	1.3	LC50/ITX/INC/		LAB/S/C	4	37	7.8	20	12:12 h photoperiod	14130
178	29122	<i>Philodina acuticornis</i>	7733020	1.5	LC50/ITX/INC/		LAB/S/C	4	26	7.8	30	12:12 h photoperiod	14130

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
178	29123	<i>Philodina acuticornis</i>	7733020	2.2	LC50/ITX/INC/		LAB/S/C	4	26	7.8	30	12:12 h photoperiod	14130
178	29151	<i>Philodina acuticornis</i>	7733020	1.2	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
178	29152	<i>Philodina acuticornis</i>	7733020	1.2	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
178	27504	<i>Physa heterostropha</i>	7646857	1.03	LC50/MOR//		LAB//S	4	49.5	7.285	20		2107
178	27505	<i>Physa heterostropha</i>	7646857	0.7	LC50/MOR//		LAB//S	4	39.9	7.645	30		2107
178	29173	<i>Physa heterostropha</i>	7733020	1.11	LC50/MOR//	adult, 12-15 mm	LAB//I	4	20	7.3	21		3692
178	29174	<i>Physa heterostropha</i>	7733020	1.11	LC50/MOR//	adult, 12-15 mm	LAB//I	5	20	7.3	21		3692
178	29198	<i>Physa heterostropha</i>	7733020	0.434	LC50/MOR//	young, 3-6 mm	LAB//I	4	20	7.3	20	uncooked wheatena present in dilution water as organic	3692
178	29437	<i>Stenocypris malcolmsoni</i>	7733020	3.5	LC50/MOR/INC/	adult	LAB//C	4	37.6	7.3	26.75		45139
178	27604	<i>Tanytarsus dissimilis</i>	7646857	0.037	LC50/MOR//	2nd and 3rd instar egg	LAB/S/U	10	46.8	7.5	22		5249
178	26549	<i>Trichoptera</i>	7440666	58.1	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
178	29481	<i>Velesunio ambiguus</i>	7733020	66	LC50/MOR//		LAB/R/S	14	37	7	18.75		11151
178	30026	<i>Velesunio ambiguus</i>	7733020	210	/BEH//		LAB/R/S	9	37	7	18.75		11151
178	26551	<i>Zygoptera</i>	7440666	26.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
179	Invertebrates exposed to zinc in soft water at >15degC over 1-3 days exposure												
179	27900	<i>Acrossocheilus paradoxus</i>	7733020	1.066	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	2	34	7.35	22		18913
179	27907	<i>Aeolosoma headleyi</i>	7733020	15	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
179	27908	<i>Aeolosoma headleyi</i>	7733020	13.5	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
179	27931	<i>Anculosa</i>	7733020	1.9	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
179	27932	<i>Anculosa</i>	7733020	1.65	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
179	27987	<i>Argia</i>	7733020	320	LC50/MOR//		LAB//I	2	20	7.3	21		2050
179	27988	<i>Argia</i>	7733020	320	LC50/MOR//		LAB//I	3	20	7.3	21		2050
179	28005	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB//I	2	20	7.3	21		2050
179	28006	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB//I	3	20	7.3	21		2050
179	29688	<i>Barytelphusa cunicularis</i>	7733020	10	/BCM//	mature, 115 g	LAB//S	2.5	6.4	7.2	22		6549
179	26749	<i>Ceriodaphnia dubia</i>	7646857	0.163	LC50/MOR//	< 4 h	LAB/S/S	2	32	7.25	25	water parameters rpt, naugatuck river, station 1, aug 26	2124

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
179	28100	<i>Ceriodaphnia reticulata</i>	7733020	1.4	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	28101	<i>Ceriodaphnia reticulata</i>	7733020	0.14	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
179	28102	<i>Ceriodaphnia reticulata</i>	7733020	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	29711	<i>Chironomus decorus</i>	7733020	28.28	/MOR//		LAB//U	3	60	7.575	21		2050
179	26769	<i>Chydorus sphaericus</i>	7646857	0.44	LC50/ITX/INC/	adult	LAB/S/S	2	11.7	6.48	18	organism from non polluted lake, mesotrophic level	4258
179	26770	<i>Chydorus sphaericus</i>	7646857	0.253	LC50/ITX/INC/	adult	LAB/S/S	2	10.5	6.41	18	organism from pristine lake, dystrophic level	4258
179	28383	<i>Daphnia carinata</i>	7733020	2.3	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	28385	<i>Daphnia carinata</i>	7733020	0.45	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
179	28386	<i>Daphnia carinata</i>	7733020	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	26833	<i>Daphnia magna</i>	7646857	0.28	LC50/ITX//	12 h old	LAB/S/I	2	45.3	7.74	18	see paper	2022
179	26834	<i>Daphnia magna</i>	7646857	0.1	LC50/ITX//	12 h old	LAB/S/I	2	45.3	7.74	18	see paper	2022
179	26845	<i>Daphnia magna</i>	7646857	0.334	LC50/MOR//	< 1 d	LAB/S/I	2	54	7.6	19.5	water parameters rpt	3621
179	28452	<i>Daphnia magna</i>	7733020	0.28	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
179	28453	<i>Daphnia magna</i>	7733020	0.56	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
179	28477	<i>Daphnia magna</i>	7733020	0.259	LC50/MOR/INC/	neonates, clone c	LAB/S/C	2	46.1	7.2	20		19146
179	28478	<i>Daphnia magna</i>	7733020	0.131	LC50/MOR/INC/	neonates, clone a	LAB/S/C	2	46.1	7.2	20		19146
179	26856	<i>Daphnia pulex</i>	7646857	0.38	LC50/MOR/INC/	>=6 d	LAB/S/C	2	46	7.5	21		3402
179	26857	<i>Daphnia pulex</i>	7646857	0.26	LC50/MOR/INC/	>=6 d	LAB/S/C	2	46	7.5	21		3402
179	28504	<i>Daphnia pulex</i>	7733020	0.5	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
179	28505	<i>Daphnia pulex</i>	7733020	0.28	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
179	28529	<i>Dugesia tigrina</i>	7733020	5.48	LC50/MOR//		LAB/S/I	2	40	7.5	23	for other water chem see paper	6154
179	28613	<i>Heliodiaptomus viduus</i>	7733020	0.5	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	28615	<i>Heliodiaptomus viduus</i>	7733020	0.045	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
179	28616	<i>Heliodiaptomus viduus</i>	7733020	0.045	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	28630	<i>Helisoma campanulatum</i>	7733020	1.88	LC50/MOR//	adult	LAB//I	2	20	7.3	22.8		3692

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
179	28631	<i>Helisoma campanulatum</i>	7733020	1.48	LC50/MOR//	adult	LAB//I	3	20	7.3	22.8		3692
179	26912	<i>Lumbriculus variegatus</i>	7646857	8.1	LC50/MOR/INC/		LAB/S/C	2	30	7.5	20		6502
179	28831	<i>Mesocyclops hyalinus</i>	7733020	0.004	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	28833	<i>Mesocyclops hyalinus</i>	7733020	1.4	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
179	28834	<i>Mesocyclops hyalinus</i>	7733020	0.08	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	26925	<i>Moina irrasa</i>	7646857	0.153	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	20		13762
179	26926	<i>Moina irrasa</i>	7646857	0.205	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	8	20		13762
179	26928	<i>Moina irrasa</i>	7646857	0.125	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	6.5	20		13762
179	26929	<i>Moina irrasa</i>	7646857	0.034	LC50/MOR/INC/	neonate, <24 h	LAB/S/	3	5	8	20		13762
179	26934	<i>Moina irrasa</i>	7646857	0.093	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	6.5	25		13762
179	26937	<i>Moina irrasa</i>	7646857	0.059	LC50/MOR/INC/	neonate, <24 h	LAB/S/	2	5	8	30		13762
179	28849	<i>Moina macrocopa</i>	7733020	0.12	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	28851	<i>Moina macrocopa</i>	7733020	0.025	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
179	28858	<i>Moina macrocopa</i>	7733020	0.025	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	27495	<i>Philodina acuticornis</i>	7646857	3	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
179	27498	<i>Philodina acuticornis</i>	7646857	2.4	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
179	29078	<i>Philodina acuticornis</i>	7733020	0.1	LC50/ITX/INC/		LAB/S/C	2	0	7.8	20	16:8 h photoperiod	14130
179	29099	<i>Philodina acuticornis</i>	7733020	1.3	LC50/ITX/INC/		LAB/S/C	2	9	7.2	20	12:12 h photoperiod	14130
179	29100	<i>Philodina acuticornis</i>	7733020	0.9	LC50/ITX/INC/		LAB/S/C	2	9	7.6	20	12:12 h photoperiod	14130
179	29120	<i>Philodina acuticornis</i>	7733020	0.9	LC50/ITX/INC/		LAB/S/C	2	37	7.8	20	12:12 h photoperiod	14130
179	29125	<i>Philodina acuticornis</i>	7733020	3.9	LC50/ITX/INC/		LAB/S/C	2	6	7.8	20	12:12 h photoperiod	14130
179	29127	<i>Philodina acuticornis</i>	7733020	3.3	LC50/ITX/INC/		LAB/S/C	2	47	7.8	20	12:12 h photoperiod	14130
179	29150	<i>Philodina acuticornis</i>	7733020	1.4	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
179	29153	<i>Philodina acuticornis</i>	7733020	0.9	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
179	29171	<i>Physa heterostropha</i>	7733020	1.48	LC50/MOR//	adult, 12-15 mm	LAB//I	2	20	7.3	21		3692
179	29172	<i>Physa heterostropha</i>	7733020	1.11	LC50/MOR//	adult, 12-15 mm	LAB//I	3	20	7.3	21		3692
179	29196	<i>Physa heterostropha</i>	7733020	0.536	LC50/MOR//	young, 3-6 mm	LAB//I	2	20	7.3	20	uncooked wheatena present in dilution water as organic	3692
179	29197	<i>Physa heterostropha</i>	7733020	0.434	LC50/MOR//	young, 3-6 mm	LAB//I	3	20	7.3	20	uncooked wheatena present in dilution water as organic	3692
179	29432	<i>Spirostomum ambiguum</i>	7733020	0.39	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
179	29434	<i>Spirostomum ambiguum</i>	7733020	0.414	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
179	29436	<i>Stenocypris malcolmsoni</i>	7733020	5.25	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	29438	<i>Stenocypris malcolmsoni</i>	7733020	0.8	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
179	29439	<i>Stenocypris malcolmsoni</i>	7733020	0.045	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
179	29472	<i>Tubifex tubifex</i>	7733020	2.57	LC50/MOR//		LAB/R/S	2	34.2	7.2	20	mg, po4, ca, dilution h2o for bod with po4 buffer	8905
179	29476	<i>Tubifex tubifex</i>	7733020	0.11	LC50/MOR//		LAB/R/S	2	0.1	6.3	20		8905
179	29478	<i>Tubifex tubifex</i>	7733020	2.98	LC50/MOR//		LAB/R/S	2	34.2	6.85	20	mg, po4, ca, dilution h2o for bod without po4 buffer	8905
180	Invertebrates exposed to zinc in soft water at >15degC over <=1 day exposure												
180	27899	<i>Acrossocheilus paradoxus</i>	7733020	1.423	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
180	29509	<i>Acrossocheilus paradoxus</i>	7733020	0.25	NR-ZERO/MOR/NEF/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
180	27912	<i>Aeolosoma headleyi</i>	7733020	15.6	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
180	27913	<i>Aeolosoma headleyi</i>	7733020	14.2	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
180	26236	<i>Ammnicola</i>	7440666	28.1	LC50/MOR//	egg	LAB/S/I	1	50	7.6	17		2020
180	26238	<i>Ammnicola</i>	7440666	16.8	LC50/MOR//	adult	LAB/S/I	1	50	7.6	17		2020
180	27936	<i>Anculosa</i>	7733020	2.1	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
180	27937	<i>Anculosa</i>	7733020	1.8	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
180	27986	<i>Argia</i>	7733020	320	LC50/MOR//		LAB//I	1	20	7.3	21		2050

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
180	28004	<i>Asellus communis</i>	7733020	56	LC50/MOR//		LAB//I	1	20	7.3	21		2050
180	29687	<i>Barytelphusa cunicularis</i>	7733020	10	/PHY//	mature, 115 g	LAB//S	0.26	6.4	7.2	22		6549
180	26731	<i>Brachionus calyciflorus</i>	7646857	1.32	LC50/MOR//	juvenile	LAB/S/S	1	36.2	7.3	20		3091
180	26276	<i>Chironomus</i>	7440666	21.5	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
180	28457	<i>Daphnia magna</i>	7733020	1	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
180	28458	<i>Daphnia magna</i>	7733020	0.79	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
180	26854	<i>Daphnia pulex</i>	7646857	0.74	LC50/MOR/INC/	>=6 d	LAB/S/C	1	46	7.5	21		3402
180	26855	<i>Daphnia pulex</i>	7646857	0.36	LC50/MOR/INC/	>=6 d	LAB/S/C	1	46	7.5	21		3402
180	28509	<i>Daphnia pulex</i>	7733020	0.56	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
180	28510	<i>Daphnia pulex</i>	7733020	0.46	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
180	28528	<i>Dugesia tigrina</i>	7733020	7.1	LC50/MOR//		LAB/S/I	1	40	7.5	23	for other water chem see paper	6154
180	26336	<i>Gammarus</i>	7440666	10.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
180	28629	<i>Helisoma campanulatum</i>	7733020	12.66	LC50/MOR//	adult	LAB//I	1	20	7.3	22.8		3692
180	26922	<i>Moina irrasa</i>	7646857	0.307	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	20		13762
180	26923	<i>Moina irrasa</i>	7646857	0.327	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	20		13762
180	26932	<i>Moina irrasa</i>	7646857	0.182	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	25		13762
180	26935	<i>Moina irrasa</i>	7646857	0.081	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	6.5	30		13762
180	26936	<i>Moina irrasa</i>	7646857	0.255	LC50/MOR/INC/	neonate, <24 h	LAB/S/	1	5	8	30		13762
180	26407	<i>Nais</i>	7440666	21.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
180	27499	<i>Philodina acuticornis</i>	7646857	3.7	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
180	27500	<i>Philodina acuticornis</i>	7646857	4.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
180	29079	<i>Philodina acuticornis</i>	7733020	0.1	LC50/ITX/INC/		LAB/S/C	1	0	7.8	20	16:8 h photoperiod	14130
180	29098	<i>Philodina acuticornis</i>	7733020	1.8	LC50/ITX/INC/		LAB/S/C	1	9	7.2	20	12:12 h photoperiod	14130
180	29101	<i>Philodina acuticornis</i>	7733020	0.9	LC50/ITX/INC/		LAB/S/C	1	9	7.6	20	12:12 h photoperiod	14130
180	29119	<i>Philodina acuticornis</i>	7733020	1.1	LC50/ITX/INC/		LAB/S/C	1	37	7.8	20	12:12 h photoperiod	14130
180	29124	<i>Philodina acuticornis</i>	7733020	3.8	LC50/ITX/INC/		LAB/S/C	1	26	7.8	30	12:12 h photoperiod	14130
180	29149	<i>Philodina acuticornis</i>	7733020	1.4	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
180	29154	<i>Philodina acuticornis</i>	7733020	1.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
180	29170	<i>Physa heterostropha</i>	7733020	2.71	LC50/MOR//	adult, 12-15 mm	LAB//I	1	20	7.3	21		3692
180	29195	<i>Physa heterostropha</i>	7733020	0.667	LC50/MOR//	young, 3-6 mm	LAB//I	1	20	7.3	20	uncooked wheatena present in dilution water as organic	3692
180	27873	<i>Protozoa</i>	7646857	1	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
180	27874	<i>Protozoa</i>	7646857	5	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
180	27875	<i>Protozoa</i>	7646857	40	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
180	27876	<i>Protozoa</i>	7646857	100	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
180	29431	<i>Spirostomum ambiguum</i>	7733020	0.394	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997
180	29433	<i>Spirostomum ambiguum</i>	7733020	0.423	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
180	26548	<i>Trichoptera</i>	7440666	62.6	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
180	29475	<i>Tubifex tubifex</i>	7733020	0.12	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
180	29477	<i>Tubifex tubifex</i>	7733020	4.62	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	mg, po4, ca, dilution h2o for bod without po4 buffer	8905
180	29479	<i>Tubifex tubifex</i>	7733020	3.64	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	mg, po4, ca, dilution h2o for bod with po4 buffer	8905
180	30025	<i>Tubifex tubifex</i>	7733020	0.091	/PHY//		LAB/S/I	0.25	34.2	7.2	20	ca, mg, po4	15584
180	26550	<i>Zygoptera</i>	7440666	32	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
181	Invertebrates exposed to zinc in very hard water at >15degC over 3-30 days exposure												
181	26558	<i>Ceriodaphnia dubia</i>	7440666	0.05	/REP/DEC/NOSIG	neonates, 12-24 h	LAB/R/C	7	182	7.5	25	water from clinch river, virginia	8661
181	26559	<i>Ceriodaphnia dubia</i>	7440666	0.1	/REP/DEC/SIG	neonates, 12-24 h	LAB/R/C	7	182	7.5	25	water from clinch river, virginia	8661
181	26268	<i>Ceriodaphnia reticulata</i>	7440666	0.224	LC50/MOR//		LAB/S/S	7	353	7.9	24	water parameters rpt, 100 yds above effluent discharge	3318
181	26272	<i>Ceriodaphnia reticulata</i>	7440666	0.408	LOEC/MOR//		LAB/R/S	7	372.5	7.75	24	water parameters rpt, 100 yds above effluent discharge,	3318
181	26273	<i>Ceriodaphnia reticulata</i>	7440666	0.1205	NOEC/MOR//		LAB/R/S	7	372.5	7.75	24	water parameters rpt, 100 yds above effluent discharge,	3318

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
181	26620	<i>Ceriodaphnia reticulata</i>	7440666	0.008	/MOR//		LAB/R/S	7	372.5	7.75	24	water parameters rpt, conductivity 320-720 umhoscmd	3318
181	26621	<i>Ceriodaphnia reticulata</i>	7440666	0.008	/REP//		LAB/R/S	7	372.5	7.75	24	water parameters rpt, 100 yds above effluent discharge,	3318
181	26622	<i>Ceriodaphnia reticulata</i>	7440666	0.008	/GRO//		LAB/R/S	7	372.5	7.75	24	water parameters rpt, 100 yds above effluent discharge,	3318
181	29536	<i>Daphnia magna</i>	7733020	0.11	/ENZ/CHG/		LAB/R/C	8	250	6.6	20		12155
181	29537	<i>Daphnia magna</i>	7733020	0.11	/BCM/CHG/		LAB/R/C	8	250	6.6	20		12155
181	29747	<i>Daphnia magna</i>	7733020	0.11	/GRO/CHG/		LAB/R/C	8	250	6.6	20		12155
181	28678	<i>Hyalella azteca</i>	7733020	1.2	LC50/MOR//	7-14 d	LAB/I	4	290	6.245	25		7289
181	28679	<i>Hyalella azteca</i>	7733020	1.5	LC50/MOR//	7-14 d	LAB/I	4	290	7.025	25		7289
181	28680	<i>Hyalella azteca</i>	7733020	0.29	LC50/MOR//	7-14 d	LAB/I	4	290	7.97	25		7289
181	28690	<i>Hydra vulgaris</i>	7733020	7.4	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	4	204	6.2	20		50836
181	28784	<i>Lumbriculus variegatus</i>	7733020	5	LC50/MOR//	mixed age adults	LAB/I	4	290	6.28	25		7289
181	28785	<i>Lumbriculus variegatus</i>	7733020	5	LC50/MOR//	mixed age adults	LAB/I	4	290	6.92	25		7289
181	28790	<i>Lymnaea acuminata</i>	7733020	10.49	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	4	375	7.5	27.5	water chem profile rptd	11099
181	28796	<i>Lymnaea luteola</i>	7733020	6.13	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	4	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
181	28800	<i>Lymnaea luteola</i>	7733020	11	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	4	195	7.4	17.5		12574
181	28804	<i>Lymnaea luteola</i>	7733020	8.01	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	4	198	7.4	22		12574
181	28808	<i>Lymnaea luteola</i>	7733020	5	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	4	205	7.6	26		12574
181	29091	<i>Philodina acuticornis</i>	7733020	2.4	LC50/ITX/INC/		LAB/S/C	4	205	6.6	20	16:8 h photoperiod	14130
181	29092	<i>Philodina acuticornis</i>	7733020	31.1	LC50/ITX/INC/		LAB/S/C	4	256	7.7	20	16:8 h photoperiod	14130
181	29097	<i>Philodina acuticornis</i>	7733020	31	LC50/ITX/INC/		LAB/S/C	4	291	7.7	20	16:8 h photoperiod	14130
182	<i>Invertebrates exposed to zinc in very hard water at >15degC over 1-3 days exposure</i>												

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
182	26261	<i>Ceriodaphnia dubia</i>	7440666	0.105	LC50/MOR/INC/	neonates	LAB/R/	2	182	6	25	water from clinch river, virginia	8661
182	26262	<i>Ceriodaphnia dubia</i>	7440666	0.123	LC50/MOR/INC/	neonates	LAB/R/	2	182	8	25	water from clinch river, virginia	8661
182	28090	<i>Ceriodaphnia dubia</i>	7733020	0.53	LC50/MOR//	<=48 h	LAB//I	2	290	6.24	25		7289
182	28091	<i>Ceriodaphnia dubia</i>	7733020	0.36	LC50/MOR//	<=48 h	LAB//I	2	290	7.155	25		7289
182	26269	<i>Ceriodaphnia reticulata</i>	7440666	0.114	LC50/MOR//		LAB/S/S	2	376	7.9	24	water parameters rpt, conductivity 388 umhoscm	3318
182	26270	<i>Ceriodaphnia reticulata</i>	7440666	0.096	LC50/MOR//		LAB/S/S	2	392	7.9	24	water parameters rpt, conductivity 320 umhoscm	3318
182	26271	<i>Ceriodaphnia reticulata</i>	7440666	0.264	LC50/MOR//		LAB/S/S	2	362	7.6	24	water parameters rpt, conductivity 720 umhoscm	3318
182	28389	<i>Daphnia magna</i>	7733020	1.7	LC50/ITX//	juvenile, 6-24 h	LAB/S/I	2	250	8	20.5		10871
182	28391	<i>Daphnia magna</i>	7733020	1.1	LC50/ITX//	juvenile, 6-24 h	LAB/S/I	2	250	8	20.5		10871
182	28406	<i>Daphnia magna</i>	7733020	3.59	LC50/ITX/INC/	larvae	LAB//	2	250	7.8	20		17289
182	28686	<i>Hydra vulgaris</i>	7733020	30	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	2	204	6.2	20		50836
182	28687	<i>Hydra vulgaris</i>	7733020	21.77	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	2	204	6.2	20		50836
182	28688	<i>Hydra vulgaris</i>	7733020	11	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	3	204	6.2	20		50836
182	28689	<i>Hydra vulgaris</i>	7733020	12.88	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	3	204	6.2	20		50836
182	28788	<i>Lymnaea acuminata</i>	7733020	11.74	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	2	375	7.5	27.5	water chem profile rptd	11099
182	28789	<i>Lymnaea acuminata</i>	7733020	11.15	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	3	375	7.5	27.5	water chem profile rptd	11099
182	28795	<i>Lymnaea luteola</i>	7733020	7.73	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	2	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
182	28798	<i>Lymnaea luteola</i>	7733020	15.4	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	2	195	7.4	17.5		12574
182	28799	<i>Lymnaea luteola</i>	7733020	11.4	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	3	195	7.4	17.5		12574
182	28802	<i>Lymnaea luteola</i>	7733020	11.58	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	2	198	7.4	22		12574
182	28803	<i>Lymnaea luteola</i>	7733020	8.01	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	3	198	7.4	22		12574
182	28806	<i>Lymnaea luteola</i>	7733020	6.75	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	2	205	7.6	26		12574

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
182	28807	<i>Lymnaea luteola</i>	7733020	6.65	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	3	205	7.6	26		12574
182	29090	<i>Philodina acuticornis</i>	7733020	2.3	LC50/ITX/INC/		LAB/S/C	2	205	6.6	20	16:8 h photoperiod	14130
182	29093	<i>Philodina acuticornis</i>	7733020	34.5	LC50/ITX/INC/		LAB/S/C	2	256	7.7	20	16:8 h photoperiod	14130
182	29096	<i>Philodina acuticornis</i>	7733020	31	LC50/ITX/INC/		LAB/S/C	2	291	7.7	20	16:8 h photoperiod	14130
182	29474	<i>Tubifex tubifex</i>	7733020	60.2	LC50/MOR//		LAB/R/S	2	261	7.32	20	mg, po4, ca	8905
183	Invertebrates exposed to zinc in very hard water at >15degC over <=1 day exposure												
183	28388	<i>Daphnia magna</i>	7733020	5.3	LC50/ITX//	juvenile, 6-24 h	LAB/S/I	1	250	8	20.5		10871
183	28390	<i>Daphnia magna</i>	7733020	3	LC50/ITX//	juvenile, 6-24 h	LAB/S/I	1	250	8	20.5		10871
183	28405	<i>Daphnia magna</i>	7733020	7.63	LC50/ITX/INC/	larvae	LAB//	1	250	7.8	20		17289
183	28642	<i>Hyalella azteca</i>	7733020	750	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.01	235	8	21		19116
183	28643	<i>Hyalella azteca</i>	7733020	750	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.01	235	8	21		19116
183	28644	<i>Hyalella azteca</i>	7733020	750	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.01	235	8	21		19116
183	28645	<i>Hyalella azteca</i>	7733020	750	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.01	235	8	21		19116
183	28646	<i>Hyalella azteca</i>	7733020	750	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.01	235	8	21		19116
183	28647	<i>Hyalella azteca</i>	7733020	150	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21		19116
183	28648	<i>Hyalella azteca</i>	7733020	150	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21		19116
183	28649	<i>Hyalella azteca</i>	7733020	150	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21		19116
183	28650	<i>Hyalella azteca</i>	7733020	90	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21		19116
183	28651	<i>Hyalella azteca</i>	7733020	1000	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
183	28652	<i>Hyalella azteca</i>	7733020	100	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
183	28653	<i>Hyalella azteca</i>	7733020	95	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
183	28654	<i>Hyalella azteca</i>	7733020	25	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
183	28655	<i>Hyalella azteca</i>	7733020	15	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
183	28656	<i>Hyalella azteca</i>	7733020	15	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
183	28657	<i>Hyalella azteca</i>	7733020	10	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
183	28658	<i>Hyalella azteca</i>	7733020	15	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21		19116
183	28659	<i>Hyalella azteca</i>	7733020	20	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
183	28660	<i>Hyalella azteca</i>	7733020	7.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
183	28661	<i>Hyalella azteca</i>	7733020	4	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
183	28662	<i>Hyalella azteca</i>	7733020	4	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
183	28663	<i>Hyalella azteca</i>	7733020	5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
183	28664	<i>Hyalella azteca</i>	7733020	4	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
183	28665	<i>Hyalella azteca</i>	7733020	4	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21		19116
183	28666	<i>Hyalella azteca</i>	7733020	45	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21		19116
183	28667	<i>Hyalella azteca</i>	7733020	8.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21		19116

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
183	28668	<i>Hyalella azteca</i>	7733020	4.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21	19116	
183	28669	<i>Hyalella azteca</i>	7733020	4	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21	19116	
183	28670	<i>Hyalella azteca</i>	7733020	3.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21	19116	
183	28671	<i>Hyalella azteca</i>	7733020	3.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21	19116	
183	28672	<i>Hyalella azteca</i>	7733020	3.5	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21	19116	
183	28673	<i>Hyalella azteca</i>	7733020	650	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.01	235	8	21	19116	
183	28674	<i>Hyalella azteca</i>	7733020	90	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.02	235	8	21	19116	
183	28675	<i>Hyalella azteca</i>	7733020	15	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.04	235	8	21	19116	
183	28676	<i>Hyalella azteca</i>	7733020	4	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.08	235	8	21	19116	
183	28677	<i>Hyalella azteca</i>	7733020	3	LC50/ITX/INC/	7-14 d, neonates	LAB/S/C	0.17	235	8	21	19116	
183	28685	<i>Hydra vulgaris</i>	7733020	61.52	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	1	204	6.2	20	50836	
183	28787	<i>Lymnaea acuminata</i>	7733020	16.13	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	1	375	7.5	27.5	water chem profile rptd	11099
183	28793	<i>Lymnaea luteola</i>	7733020	10.23	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	0.5	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
183	28794	<i>Lymnaea luteola</i>	7733020	8.19	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	1	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
183	28797	<i>Lymnaea luteola</i>	7733020	21.81	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	1	195	7.4	17.5		12574
183	28801	<i>Lymnaea luteola</i>	7733020	16.29	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	1	198	7.4	22		12574
183	28805	<i>Lymnaea luteola</i>	7733020	9.14	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	1	205	7.6	26		12574
183	29089	<i>Philodina acuticornis</i>	7733020	9.2	LC50/ITX/INC/		LAB/S/C	1	205	6.6	20	16:8 h photoperiod	14130
183	29094	<i>Philodina acuticornis</i>	7733020	33	LC50/ITX/INC/		LAB/S/C	1	256	7.7	20	16:8 h photoperiod	14130
183	29095	<i>Philodina acuticornis</i>	7733020	28.5	LC50/ITX/INC/		LAB/S/C	1	291	7.7	20	16:8 h photoperiod	14130
183	29473	<i>Tubifex tubifex</i>	7733020	75.8	LC50/MOR//		LAB/R/S	1	261	7.32	20	mg, po4, ca	8905
184	Non-arthropod invertebrates exposed to zinc in hard water at >15degC over 1-3 days exposure												
184	28537	<i>Elimia livescens</i>	7733020	13.5	LC50/MOR/INC/		LAB/S/C	2	154	7.8	23.5		6109
184	28792	<i>Lymnaea emarginata angulata</i>	7733020	4.15	LC50/MOR//		LAB/S/S	2	154	7.8	23.5		6109
184	26917	<i>Lymnaea stagnalis</i>	7646857	5.6	LC50/ITX//	19-35 mm	LAB/S/I	2	162.5	8	21.5		8355
184	29087	<i>Philodina acuticornis</i>	7733020	4.3	LC50/ITX/INC/		LAB/S/C	2	154	6.7	20	16:8 h photoperiod	14130

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
184	29208	<i>Physa integra</i>	7733020	4.4	LC50/MOR//		LAB/S/S	2	154	7.8	23.5		6109
184	29484	<i>Viviparus bengalensis</i>	7733020	1.764	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	2	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
184	29485	<i>Viviparus bengalensis</i>	7733020	0.965	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	3	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
185	Non-arthropod invertebrates exposed to zinc in hard water at >15degC over <=1 day exposure												
185	28536	<i>Elimia livescens</i>	7733020	18	LC50/MOR//		LAB/S/S	1	154	7.8	23.5		6109
185	28791	<i>Lymnaea emarginata angulata</i>	7733020	4.4	LC50/MOR//		LAB/S/S	1	154	7.8	23.5		6109
185	26914	<i>Lymnaea stagnalis</i>	7646857	64	LC50/ITX//	19-35 mm	LAB/S/I	0.25	162.5	8	21.5		8355
185	26915	<i>Lymnaea stagnalis</i>	7646857	10	LC50/ITX//	19-35 mm	LAB/S/I	0.58	162.5	8	21.5		8355
185	26916	<i>Lymnaea stagnalis</i>	7646857	6.7	LC50/ITX//	19-35 mm	LAB/S/I	1	162.5	8	21.5		8355
185	29086	<i>Philodina acuticornis</i>	7733020	5.7	LC50/ITX/INC/		LAB/S/C	1	154	6.7	20	16:8 h photoperiod	14130
185	29207	<i>Physa integra</i>	7733020	5.8	LC50/MOR//		LAB/S/S	1	154	7.8	23.5		6109
185	29482	<i>Viviparus bengalensis</i>	7733020	4.763	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	0.5	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
185	29483	<i>Viviparus bengalensis</i>	7733020	3.515	LC50/MOR//	2.50(2.16-2.78) cm shell length,	LAB/R/I	1	180	7.4	27.3	na, k, ca, conductivity 750-1050 umhoscm	15745
186	Non-arthropod invertebrates exposed to zinc in moderately hard water at >15degC over 3-30 days exposure												
186	28628	<i>Helisoma campanulatum</i>	7733020	1.27	LC50/MOR//	adult	LAB/I	4	100	7.8	22.8		3692
186	28684	<i>Hydra vulgaris</i>	7733020	6.63	LC50/MOR/INC/	polyps, budding, non-budding	LAB/C	4	108	7.5	20		18616
186	28771	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	4	100	7.85	21		2050
186	28772	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	5	100	7.85	21		2050
186	28773	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	6	100	7.85	21		2050
186	28774	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	7	100	7.85	21		2050
186	28775	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	8	100	7.85	21		2050

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
186	28776	<i>Limnodrilus hoffmeisteri</i>	7733020	7.8	LC50/MOR//		LAB//I	10.83	100	7.85	21		2050
186	29083	<i>Philodina acuticornis</i>	7733020	1.1	LC50/ITX/INC/		LAB/S/C	4	103	6.9	20	16:8 h photoperiod	14130
186	29169	<i>Physa heterostropha</i>	7733020	3.16	LC50/MOR//	adult, 12-15 mm	LAB//I	4	100	7.8	21		3692
186	29194	<i>Physa heterostropha</i>	7733020	1.7	LC50/MOR//	young, 3-6 mm	LAB//I	4	100	7.8	20	uncooked wheatena present in dilution water as organic	3692
186	30371	<i>Plankton</i>	7733020	0.77	/POP/DEC/SIG	epilithic communities	FIELDA/O/S	12.5	82.2	7.86	19.6	glass rods, streams	3631
186	30373	<i>Plankton</i>	7733020	0.77	/BCM/CHG/MULT	epilithic communities	FIELDA/O/S	12.5	82.2	7.86	19.6	glass rods, streams	3631
186	30374	<i>Plankton</i>	7733020	0.77	/PHY/CHG/MULT	epilithic communities	FIELDA/O/S	12.5	82.2	7.86	19.6	glass rods, streams	3631
186	30375	<i>Plankton</i>	7733020	0.77	/POP/NEF/NOSIG	epilithic communities	FIELDA/O/S	20	82.2	7.86	19.6	glass rods, streams	3631
186	30385	<i>Plankton</i>	7733020	0.77	/PRS/NEF/	epilithic communities	FIELDA/O/S	20	82.2	7.86	19.6	glass rods, streams	3631
186	29984	<i>Protozoa</i>	7733020	0.1225	/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	21	73.8	7.78	20.5		19367
187	Non-arthropod invertebrates exposed to zinc in moderately hard water at >15degC over 1-3 days exposure												
187	27966	<i>Aquatic community</i>	7733020	0.992	IC20/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
187	27967	<i>Aquatic community</i>	7733020	1.42	IC20/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
187	27968	<i>Aquatic community</i>	7733020	1.086	IC20/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
187	27969	<i>Aquatic community</i>	7733020	1.693	IC20/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
187	27970	<i>Aquatic community</i>	7733020	0.087	IC20/PRS/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
187	27971	<i>Aquatic community</i>	7733020	0.605	IC20/PRS/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
187	27972	<i>Aquatic community</i>	7733020	0.01	IC20/PHY/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
187	27973	<i>Aquatic community</i>	7733020	0.001	IC20/PHY/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
187	27974	<i>Aquatic community</i>	7733020	0.034	IC20/PRS/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
187	27975	<i>Aquatic community</i>	7733020	0.501	IC20/PRS/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
187	27976	<i>Aquatic community</i>	7733020	1.196	LOEC/POP//SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
187	27977	<i>Aquatic community</i>	7733020	1.196	LOEC/POP//SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
187	27978	<i>Aquatic community</i>	7733020	2.816	LOEC/POP/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
187	27979	<i>Aquatic community</i>	7733020	1.196	LOEC/POP/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
187	27980	<i>Aquatic community</i>	7733020	0.425	LOEC/PRS/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
187	27981	<i>Aquatic community</i>	7733020	1.196	LOEC/PRS/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
187	27982	<i>Aquatic community</i>	7733020	10.078	LOEC/PHY/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
187	27983	<i>Aquatic community</i>	7733020	2.816	LOEC/PHY/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
187	27984	<i>Aquatic community</i>	7733020	0.425	LOEC/PRS/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73 ugl	19367
187	27985	<i>Aquatic community</i>	7733020	2.816	LOEC/PRS/DEC/SIG	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 172 ugl	19367
187	28626	<i>Helisoma campanulatum</i>	7733020	5.29	LC50/MOR//	adult	LAB/I	2	100	7.8	22.8		3692
187	28627	<i>Helisoma campanulatum</i>	7733020	1.27	LC50/MOR//	adult	LAB/I	3	100	7.8	22.8		3692
187	28682	<i>Hydra vulgaris</i>	7733020	6.67	EC50/FDB/DEC/	polyps, budding, non-budding	LAB/R/C	2	108	7.45	20		18616
187	28683	<i>Hydra vulgaris</i>	7733020	26.63	LC50/MOR/INC/	polyps, budding, non-budding	LAB/C	3	108	7.5	20		18616
187	28769	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	2	100	7.85	21		2050
187	28770	<i>Limnodrilus hoffmeisteri</i>	7733020	10	LC50/MOR//		LAB/I	3	100	7.85	21		2050
187	29084	<i>Philodina acuticornis</i>	7733020	2.4	LC50/ITX/INC/		LAB/S/C	2	103	6.9	20	16:8 h photoperiod	14130
187	29105	<i>Philodina acuticornis</i>	7733020	3.1	LC50/ITX/INC/		LAB/S/C	2	72	7.1	20	12:12 h photoperiod	14130
187	29106	<i>Philodina acuticornis</i>	7733020	1.3	LC50/ITX/INC/		LAB/S/C	2	76	6.8	20	12:12 h photoperiod	14130

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
187	29115	<i>Philodina acuticornis</i>	7733020	2	LC50/ITX/INC/		LAB/S/C	2	98	7.4	20	12:12 h photoperiod	14130
187	29128	<i>Philodina acuticornis</i>	7733020	5.9	LC50/ITX/INC/		LAB/S/C	2	81	7.8	20	12:12 h photoperiod	14130
187	29129	<i>Philodina acuticornis</i>	7733020	2.5	LC50/ITX/INC/		LAB/S/C	2	88	7.4	20	12:12 h photoperiod	14130
187	29130	<i>Philodina acuticornis</i>	7733020	4.6	LC50/ITX/INC/		LAB/S/C	2	104	7.8	20	12:12 h photoperiod	14130
187	29131	<i>Philodina acuticornis</i>	7733020	5.7	LC50/ITX/INC/		LAB/S/C	2	107	8	20	12:12 h photoperiod	14130
187	29146	<i>Philodina acuticornis</i>	7733020	2.4	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
187	29147	<i>Philodina acuticornis</i>	7733020	2	LC50/ITX/INC/		LAB/S/C	2	81	7.6	20		2019
187	29167	<i>Physa heterostropha</i>	7733020	3.62	LC50/MOR//	adult, 12-15 mm	LAB//I	2	100	7.8	21		3692
187	29168	<i>Physa heterostropha</i>	7733020	3.16	LC50/MOR//	adult, 12-15 mm	LAB//I	3	100	7.8	21		3692
187	29192	<i>Physa heterostropha</i>	7733020	2.76	LC50/MOR//	young, 3-6 mm	LAB//I	2	100	7.8	20	uncooked wheatena present in dilution water as organic	3692
187	29193	<i>Physa heterostropha</i>	7733020	1.96	LC50/MOR//	young, 3-6 mm	LAB//I	3	100	7.8	20	uncooked wheatena present in dilution water as organic	3692
187	29985	Protozoa	7733020	5.2515	/POP/DEC/	field collected aufwach, 2nd	LAB/F/C	2	73.8	7.78	20.5	pre-exposed 73-172 ugl	19367
188	Non-arthropod invertebrates exposed to zinc in soft water at <15degC over 1-3 days exposure												
188	27904	<i>Aeolosoma headleyi</i>	7733020	18.1	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
188	27905	<i>Aeolosoma headleyi</i>	7733020	17.6	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
188	27906	<i>Aeolosoma headleyi</i>	7733020	15.6	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
188	27928	<i>Anculosa</i>	7733020	4.8	LC50/MOR//		LAB/S/S	2	45	7.5	5		518
188	27929	<i>Anculosa</i>	7733020	4.6	LC50/MOR//		LAB/S/S	2	45	7.5	10		518
188	27930	<i>Anculosa</i>	7733020	2.8	LC50/MOR//		LAB/S/S	2	45	7.5	15		518
188	26552	<i>Anodonta cygnea zellensis</i>	7440666	0.55	/MOR/INC/MULT	glochidia	LAB//C	2	31.25	6.15	13		13719
188	28622	<i>Helisoma campanulatum</i>	7733020	8.07	LC50/MOR//	adult	LAB//I	2	20	7.3	12.8		3692
188	28623	<i>Helisoma campanulatum</i>	7733020	0.96	LC50/MOR//	adult	LAB//I	3	20	7.3	12.8		3692

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
188	29117	<i>Philodina acuticornis</i>	7733020	4.2	LC50/ITX/INC/		LAB/S/C	2	34	7.8	10	12:12 h photoperiod	14130
188	29180	<i>Physa heterostropha</i>	7733020	0.434	LC50/MOR//	young, 3-6 mm	LAB//I	2	20	7.3	10.6	uncooked wheatena present in dilution water as organic	3692
188	29181	<i>Physa heterostropha</i>	7733020	0.303	LC50/MOR//	young, 3-6 mm	LAB//I	3	20	7.3	10.6	uncooked wheatena present in dilution water as organic	3692
188	29188	<i>Physa heterostropha</i>	7733020	0.536	LC50/MOR//	young, 3-6 mm	LAB//I	2	20	7.3	12.8	uncooked wheatena present in dilution water as organic	3692
188	29189	<i>Physa heterostropha</i>	7733020	0.536	LC50/MOR//	young, 3-6 mm	LAB//I	3	20	7.3	12.8	uncooked wheatena present in dilution water as organic	3692
189	Non-arthropod invertebrates exposed to zinc in soft water at <15degC over <=1 day exposure												
189	27909	<i>Aeolosoma headleyi</i>	7733020	19.6	LC50/MOR//		LAB/S/S	1	45	7.5	5		518
189	27910	<i>Aeolosoma headleyi</i>	7733020	18.3	LC50/MOR//		LAB/S/S	1	45	7.5	10		518
189	27911	<i>Aeolosoma headleyi</i>	7733020	16	LC50/MOR//		LAB/S/S	1	45	7.5	15		518
189	27933	<i>Anculosa</i>	7733020	5.71	LC50/MOR//		LAB/S/S	1	45	7.5	5		518
189	27934	<i>Anculosa</i>	7733020	5.6	LC50/MOR//		LAB/S/S	1	45	7.5	10		518
189	27935	<i>Anculosa</i>	7733020	3.8	LC50/MOR//		LAB/S/S	1	45	7.5	15		518
189	28621	<i>Helisoma campanulatum</i>	7733020	11.07	LC50/MOR//	adult	LAB//I	1	20	7.3	12.8		3692
189	29116	<i>Philodina acuticornis</i>	7733020	4.6	LC50/ITX/INC/		LAB/S/C	1	34	7.8	10	12:12 h photoperiod	14130
189	29179	<i>Physa heterostropha</i>	7733020	0.434	LC50/MOR//	young, 3-6 mm	LAB//I	1	20	7.3	10.6	uncooked wheatena present in dilution water as organic	3692
189	29187	<i>Physa heterostropha</i>	7733020	0.536	LC50/MOR//	young, 3-6 mm	LAB//I	1	20	7.3	12.8	uncooked wheatena present in dilution water as organic	3692
190	Non-arthropod invertebrates exposed to zinc in soft water at >15degC over 3-30 days exposure												

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
190	27901	<i>Acrossocheilus paradoxus</i>	7733020	0.813	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	4	34	7.35	22		18913
190	29508	<i>Acrossocheilus paradoxus</i>	7733020	2	NR-LETH/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	4	34	7.35	22		18913
190	26237	<i>Amnicola</i>	7440666	20.2	LC50/MOR//	egg	LAB/S/I	4	50	7.6	17		2020
190	26239	<i>Amnicola</i>	7440666	14	LC50/MOR//	adult	LAB/S/I	4	50	7.6	17		2020
190	29719	<i>Corbicula manilensis</i>	7733020	0.538	/ENZ/CHG/		LAB/F/C	30	55.4	7.845	16.5	artificial stream	19368
190	26316	<i>Dugesia tigrina</i>	7440666	7.4	LC50/MOR//		LAB/S/I	4	50	7.6	20		8709
190	28530	<i>Dugesia tigrina</i>	7733020	5.48	LC50/MOR//		LAB/S/I	4	40	7.5	23	for other water chem see paper	6154
190	28614	<i>Heliodiaptomus viduus</i>	7733020	0.21	LC50/MOR/INC/	adult	LAB/C	4	37.6	7.3	26.75		45139
190	28632	<i>Helisoma campanulatum</i>	7733020	1.27	LC50/MOR//	adult	LAB/I	4	20	7.3	22.8		3692
190	26913	<i>Lumbriculus variegatus</i>	7646857	6.3	LC50/MOR/INC/		LAB/S/C	4	30	7.5	20		6502
190	26408	<i>Nais</i>	7440666	18.4	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
190	27496	<i>Philodina acuticornis</i>	7646857	1.5	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
190	27497	<i>Philodina acuticornis</i>	7646857	1.3	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
190	29077	<i>Philodina acuticornis</i>	7733020	0.1	LC50/ITX/INC/		LAB/S/C	4	0	7.8	20	16:8 h photoperiod	14130
190	29121	<i>Philodina acuticornis</i>	7733020	1.3	LC50/ITX/INC/		LAB/S/C	4	37	7.8	20	12:12 h photoperiod	14130
190	29122	<i>Philodina acuticornis</i>	7733020	1.5	LC50/ITX/INC/		LAB/S/C	4	26	7.8	30	12:12 h photoperiod	14130
190	29123	<i>Philodina acuticornis</i>	7733020	2.2	LC50/ITX/INC/		LAB/S/C	4	26	7.8	30	12:12 h photoperiod	14130
190	29151	<i>Philodina acuticornis</i>	7733020	1.2	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
190	29152	<i>Philodina acuticornis</i>	7733020	1.2	LC50/ITX/INC/		LAB/S/C	4	25	7.65	20		2019
190	27504	<i>Physa heterostropha</i>	7646857	1.03	LC50/MOR//		LAB/S	4	49.5	7.285	20		2107
190	27505	<i>Physa heterostropha</i>	7646857	0.7	LC50/MOR//		LAB/S	4	39.9	7.645	30		2107
190	29173	<i>Physa heterostropha</i>	7733020	1.11	LC50/MOR//	adult, 12-15 mm	LAB/I	4	20	7.3	21		3692
190	29174	<i>Physa heterostropha</i>	7733020	1.11	LC50/MOR//	adult, 12-15 mm	LAB/I	5	20	7.3	21		3692

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
190	29198	<i>Physa heterostropha</i>	7733020	0.434	LC50/MOR//	young, 3-6 mm	LAB//I	4	20	7.3	20	uncooked wheatena present in dilution water as organic	3692
190	29481	<i>Velesunio ambiguus</i>	7733020	66	LC50/MOR//		LAB/R/S	14	37	7	18.75		11151
190	30026	<i>Velesunio ambiguus</i>	7733020	210	/BEH//		LAB/R/S	9	37	7	18.75		11151
190	26551	<i>Zygoptera</i>	7440666	26.2	LC50/MOR//		LAB/S/I	4	50	7.6	17		2020
191	Non-arthropod invertebrates exposed to zinc in soft water at >15degC over 1-3 days exposure												
191	27900	<i>Acrossocheilus paradoxus</i>	7733020	1.0664	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	2	34	7.35	22		18913
191	27907	<i>Aeolosoma headleyi</i>	7733020	15	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
191	27908	<i>Aeolosoma headleyi</i>	7733020	13.5	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
191	27931	<i>Anculosa</i>	7733020	1.9	LC50/MOR//		LAB/S/S	2	45	7.5	20		518
191	27932	<i>Anculosa</i>	7733020	1.65	LC50/MOR//		LAB/S/S	2	45	7.5	25		518
191	29688	<i>Barytelphusa cunicularis</i>	7733020	10	/BCM//	mature, 115 g	LAB//S	2.5	6.4	7.2	22		6549
191	28529	<i>Dugesia tigrina</i>	7733020	5.48	LC50/MOR//		LAB/S/I	2	40	7.5	23	for other water chem see paper	6154
191	28613	<i>Heliodiaptomus viduus</i>	7733020	0.5	LC50/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
191	28615	<i>Heliodiaptomus viduus</i>	7733020	0.045	LOEC/MOR/INC/SIG	adult	LAB//C	2	37.6	7.3	26.75		45139
191	28616	<i>Heliodiaptomus viduus</i>	7733020	0.045	MATC/MOR/INC/	adult	LAB//C	2	37.6	7.3	26.75		45139
191	28630	<i>Helisoma campanulatum</i>	7733020	1.88	LC50/MOR//	adult	LAB//I	2	20	7.3	22.8		3692
191	28631	<i>Helisoma campanulatum</i>	7733020	1.48	LC50/MOR//	adult	LAB//I	3	20	7.3	22.8		3692
191	26912	<i>Lumbriculus variegatus</i>	7646857	8.1	LC50/MOR/INC/		LAB/S/C	2	30	7.5	20		6502
191	27495	<i>Philodina acuticornis</i>	7646857	3	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
191	27498	<i>Philodina acuticornis</i>	7646857	2.4	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
191	29078	<i>Philodina acuticornis</i>	7733020	0.1	LC50/ITX/INC/		LAB/S/C	2	0	7.8	20	16:8 h photoperiod	14130
191	29099	<i>Philodina acuticornis</i>	7733020	1.3	LC50/ITX/INC/		LAB/S/C	2	9	7.2	20	12:12 h photoperiod	14130
191	29100	<i>Philodina acuticornis</i>	7733020	0.9	LC50/ITX/INC/		LAB/S/C	2	9	7.6	20	12:12 h photoperiod	14130

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
191	29120	<i>Philodina acuticornis</i>	7733020	0.9	LC50/ITX/INC/		LAB/S/C	2	37	7.8	20	12:12 h photoperiod	14130
191	29125	<i>Philodina acuticornis</i>	7733020	3.9	LC50/ITX/INC/		LAB/S/C	2	6	7.8	20	12:12 h photoperiod	14130
191	29127	<i>Philodina acuticornis</i>	7733020	3.3	LC50/ITX/INC/		LAB/S/C	2	47	7.8	20	12:12 h photoperiod	14130
191	29150	<i>Philodina acuticornis</i>	7733020	1.4	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
191	29153	<i>Philodina acuticornis</i>	7733020	0.9	LC50/ITX/INC/		LAB/S/C	2	25	7.65	20		2019
191	29171	<i>Physa heterostropha</i>	7733020	1.48	LC50/MOR//	adult, 12-15 mm	LAB//I	2	20	7.3	21		3692
191	29172	<i>Physa heterostropha</i>	7733020	1.11	LC50/MOR//	adult, 12-15 mm	LAB//I	3	20	7.3	21		3692
191	29196	<i>Physa heterostropha</i>	7733020	0.536	LC50/MOR//	young, 3-6 mm	LAB//I	2	20	7.3	20	uncooked wheatena present in dilution water as organic	3692
191	29197	<i>Physa heterostropha</i>	7733020	0.434	LC50/MOR//	young, 3-6 mm	LAB//I	3	20	7.3	20	uncooked wheatena present in dilution water as organic	3692
191	29432	<i>Spirostomum ambiguum</i>	7733020	0.39	EC50/DVP/INC/		LAB/S/C	2	2.8	7.4	25		18997
191	29434	<i>Spirostomum ambiguum</i>	7733020	0.414	LC50/MOR/INC/		LAB/S/C	2	2.8	7.4	25		18997
191	29472	<i>Tubifex tubifex</i>	7733020	2.57	LC50/MOR//		LAB/R/S	2	34.2	7.2	20	mg, po4, ca, dilution h2o for bod with po4 buffer	8905
191	29476	<i>Tubifex tubifex</i>	7733020	0.11	LC50/MOR//		LAB/R/S	2	0.1	6.3	20		8905
191	29478	<i>Tubifex tubifex</i>	7733020	2.98	LC50/MOR//		LAB/R/S	2	34.2	6.85	20	mg, po4, ca, dilution h2o for bod without po4 buffer	8905
192	Non-arthropod invertebrates exposed to zinc in soft water at >15degC over <=1 day exposure												
192	27899	<i>Acrossocheilus paradoxus</i>	7733020	1.423	LC50/MOR/INC/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
192	29509	<i>Acrossocheilus paradoxus</i>	7733020	0.25	NR-ZERO/MOR/NEF/	juvenile, 1.50-1.80 cm	LAB/R/C	1	34	7.35	22		18913
192	27912	<i>Aeolosoma headleyi</i>	7733020	15.6	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
192	27913	<i>Aeolosoma headleyi</i>	7733020	14.2	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
192	26236	<i>Amnicola</i>	7440666	28.1	LC50/MOR//	egg	LAB/S/I	1	50	7.6	17		2020
192	26238	<i>Amnicola</i>	7440666	16.8	LC50/MOR//	adult	LAB/S/I	1	50	7.6	17		2020

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
192	27936	<i>Anculosa</i>	7733020	2.1	LC50/MOR//		LAB/S/S	1	45	7.5	20		518
192	27937	<i>Anculosa</i>	7733020	1.8	LC50/MOR//		LAB/S/S	1	45	7.5	25		518
192	29687	<i>Barytelphusa cunicularis</i>	7733020	10	/PHY//	mature, 115 g	LAB/S	0.26	6.4	7.2	22		6549
192	26731	<i>Brachionus calyciflorus</i>	7646857	1.32	LC50/MOR//	juvenile	LAB/S/S	1	36.2	7.3	20		3091
192	28528	<i>Dugesia tigrina</i>	7733020	7.1	LC50/MOR//		LAB/S/I	1	40	7.5	23	for other water chem see paper	6154
192	28629	<i>Helisoma campanulatum</i>	7733020	12.66	LC50/MOR//	adult	LAB/I	1	20	7.3	22.8		3692
192	26407	<i>Nais</i>	7440666	21.2	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
192	27499	<i>Philodina acuticornis</i>	7646857	3.7	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
192	27500	<i>Philodina acuticornis</i>	7646857	4.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
192	29079	<i>Philodina acuticornis</i>	7733020	0.1	LC50/ITX/INC/		LAB/S/C	1	0	7.8	20	16:8 h photoperiod	14130
192	29098	<i>Philodina acuticornis</i>	7733020	1.8	LC50/ITX/INC/		LAB/S/C	1	9	7.2	20	12:12 h photoperiod	14130
192	29101	<i>Philodina acuticornis</i>	7733020	0.9	LC50/ITX/INC/		LAB/S/C	1	9	7.6	20	12:12 h photoperiod	14130
192	29119	<i>Philodina acuticornis</i>	7733020	1.1	LC50/ITX/INC/		LAB/S/C	1	37	7.8	20	12:12 h photoperiod	14130
192	29124	<i>Philodina acuticornis</i>	7733020	3.8	LC50/ITX/INC/		LAB/S/C	1	26	7.8	30	12:12 h photoperiod	14130
192	29149	<i>Philodina acuticornis</i>	7733020	1.4	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
192	29154	<i>Philodina acuticornis</i>	7733020	1.2	LC50/ITX/INC/		LAB/S/C	1	25	7.65	20		2019
192	29170	<i>Physa heterostropha</i>	7733020	2.71	LC50/MOR//	adult, 12-15 mm	LAB/I	1	20	7.3	21		3692
192	29195	<i>Physa heterostropha</i>	7733020	0.667	LC50/MOR//	young, 3-6 mm	LAB/I	1	20	7.3	20	uncooked wheatena present in dilution water as organic	3692
192	27873	<i>Protozoa</i>	7646857	1	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
192	27874	<i>Protozoa</i>	7646857	5	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
192	27875	<i>Protozoa</i>	7646857	40	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
192	27876	<i>Protozoa</i>	7646857	100	/POP//		LAB/F/I	1	59.5	7.5	21.75		2863
192	29431	<i>Spirostomum ambiguum</i>	7733020	0.394	EC50/DVP/INC/		LAB/S/C	1	2.8	7.4	25		18997

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
192	29433	<i>Spirostomum ambiguum</i>	7733020	0.423	LC50/MOR/INC/		LAB/S/C	1	2.8	7.4	25		18997
192	29475	<i>Tubifex tubifex</i>	7733020	0.12	LC50/MOR//		LAB/R/S	1	0.1	6.3	20		8905
192	29477	<i>Tubifex tubifex</i>	7733020	4.62	LC50/MOR//		LAB/R/S	1	34.2	6.85	20	mg, po4, ca, dilution h2o for bod without po4 buffer	8905
192	29479	<i>Tubifex tubifex</i>	7733020	3.64	LC50/MOR//		LAB/R/S	1	34.2	7.2	20	mg, po4, ca, dilution h2o for bod with po4 buffer	8905
192	30025	<i>Tubifex tubifex</i>	7733020	0.091	/PHY//		LAB/S/I	0.25	34.2	7.2	20	ca, mg, po4	15584
192	26550	<i>Zygoptera</i>	7440666	32	LC50/MOR//		LAB/S/I	1	50	7.6	17		2020
193	Non-arthropod invertebrates exposed to zinc in very hard water at >15degC over 3-30 days exposure												
193	28690	<i>Hydra vulgaris</i>	7733020	7.4	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	4	204	6.2	20		50836
193	28784	<i>Lumbriculus variegatus</i>	7733020	5	LC50/MOR//	mixed age adults	LAB/I	4	290	6.28	25		7289
193	28785	<i>Lumbriculus variegatus</i>	7733020	5	LC50/MOR//	mixed age adults	LAB/I	4	290	6.92	25		7289
193	28790	<i>Lymnaea acuminata</i>	7733020	10.49	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	4	375	7.5	27.5	water chem profile rptd	11099
193	28796	<i>Lymnaea luteola</i>	7733020	6.13	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	4	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
193	28800	<i>Lymnaea luteola</i>	7733020	11	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	4	195	7.4	17.5		12574
193	28804	<i>Lymnaea luteola</i>	7733020	8.01	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	4	198	7.4	22		12574
193	28808	<i>Lymnaea luteola</i>	7733020	5	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	4	205	7.6	26		12574
193	29091	<i>Philodina acuticornis</i>	7733020	2.4	LC50/ITX/INC/		LAB/S/C	4	205	6.6	20	16:8 h photoperiod	14130
193	29092	<i>Philodina acuticornis</i>	7733020	31.1	LC50/ITX/INC/		LAB/S/C	4	256	7.7	20	16:8 h photoperiod	14130
193	29097	<i>Philodina acuticornis</i>	7733020	31	LC50/ITX/INC/		LAB/S/C	4	291	7.7	20	16:8 h photoperiod	14130
194	Non-arthropod invertebrates exposed to zinc in very hard water at >15degC over 1-3 days exposure												
194	28686	<i>Hydra vulgaris</i>	7733020	30	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	2	204	6.2	20		50836
194	28687	<i>Hydra vulgaris</i>	7733020	21.77	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	2	204	6.2	20		50836

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
194	28688	<i>Hydra vulgaris</i>	7733020	11	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	3	204	6.2	20		50836
194	28689	<i>Hydra vulgaris</i>	7733020	12.88	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	3	204	6.2	20		50836
194	28788	<i>Lymnaea acuminata</i>	7733020	11.74	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	2	375	7.5	27.5	water chem profile rptd	11099
194	28789	<i>Lymnaea acuminata</i>	7733020	11.15	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	3	375	7.5	27.5	water chem profile rptd	11099
194	28795	<i>Lymnaea luteola</i>	7733020	7.73	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	2	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
194	28798	<i>Lymnaea luteola</i>	7733020	15.4	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	2	195	7.4	17.5		12574
194	28799	<i>Lymnaea luteola</i>	7733020	11.4	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	3	195	7.4	17.5		12574
194	28802	<i>Lymnaea luteola</i>	7733020	11.58	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	2	198	7.4	22		12574
194	28803	<i>Lymnaea luteola</i>	7733020	8.01	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	3	198	7.4	22		12574
194	28806	<i>Lymnaea luteola</i>	7733020	6.75	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	2	205	7.6	26		12574
194	28807	<i>Lymnaea luteola</i>	7733020	6.65	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	3	205	7.6	26		12574
194	29090	<i>Philodina acuticornis</i>	7733020	2.3	LC50/ITX/INC/		LAB/S/C	2	205	6.6	20	16:8 h photoperiod	14130
194	29093	<i>Philodina acuticornis</i>	7733020	34.5	LC50/ITX/INC/		LAB/S/C	2	256	7.7	20	16:8 h photoperiod	14130
194	29096	<i>Philodina acuticornis</i>	7733020	31	LC50/ITX/INC/		LAB/S/C	2	291	7.7	20	16:8 h photoperiod	14130
194	29474	<i>Tubifex tubifex</i>	7733020	60.2	LC50/MOR//		LAB/R/S	2	261	7.32	20	mg, po4, ca	8905
195	Non-arthropod invertebrates exposed to zinc in very hard water at >15degC over <=1 day exposure												
195	28685	<i>Hydra vulgaris</i>	7733020	61.52	LC50/MOR/INC/	male clone, zurich strain	LAB/S/C	1	204	6.2	20		50836
195	28787	<i>Lymnaea acuminata</i>	7733020	16.13	LC50/MOR//	0.480(0.40-0.68) g,	LAB/R/I	1	375	7.5	27.5	water chem profile rptd	11099
195	28793	<i>Lymnaea luteola</i>	7733020	10.23	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	0.5	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
195	28794	<i>Lymnaea luteola</i>	7733020	8.19	LC50/MOR//	0.520(0.460-0.720) g,	LAB/S/S	1	315	7.6	27.5	conductivity 970(940-1050) umhocm, na, k, ca, si, tds	15629
195	28797	<i>Lymnaea luteola</i>	7733020	21.81	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	1	195	7.4	17.5		12574

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation	
195	28801	<i>Lymnaea luteola</i>	7733020	16.29	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	1	198	7.4	22		12574
195	28805	<i>Lymnaea luteola</i>	7733020	9.14	LC50/MOR//	2.1(1.92-2.25) cm,	LAB/R/S	1	205	7.6	26		12574
195	29089	<i>Philodina acuticornis</i>	7733020	9.2	LC50/ITX/INC/		LAB/S/C	1	205	6.6	20	16:8 h photoperiod	14130
195	29094	<i>Philodina acuticornis</i>	7733020	33	LC50/ITX/INC/		LAB/S/C	1	256	7.7	20	16:8 h photoperiod	14130
195	29095	<i>Philodina acuticornis</i>	7733020	28.5	LC50/ITX/INC/		LAB/S/C	1	291	7.7	20	16:8 h photoperiod	14130
195	29473	<i>Tubifex tubifex</i>	7733020	75.8	LC50/MOR//		LAB/R/S	1	261	7.32	20	mg, po4, ca	8905
196	Vertebrates exposed to zinc in moderately hard water at >15degC over 3-30 days exposure												
196	26721	<i>Ambystoma opacum</i>	7646857	2.38	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
196	28162	<i>Cirrhinus mrigala</i>	7733020	12.8	LC50/MOR//	4.5 mm, 51.0 mg, 2 d larvae	LAB/S/I	4	72	7.3	23	tds	10575
196	28164	<i>Cirrhinus mrigala</i>	7733020	7	LC50/MOR/INC/	fry	LAB//K	4	67	7.4	29.1		14210
196	28165	<i>Cirrhinus mrigala</i>	7733020	35	LC50/MOR/INC/	fingerling	LAB//K	4	67	7.4	29.1		14210
196	28166	<i>Cirrhinus mrigala</i>	7733020	0.86	MATC/MOR//	2 d larvae, 4.5 mm, 51.0 g	LAB/S/I	4	72	7.3	23	tds	10575
196	28168	<i>Cirrhinus mrigala</i>	7733020	0.32	MATC/GRO//	fry	LAB//K	4	67	7.4	29.1		14210
196	28169	<i>Cirrhinus mrigala</i>	7733020	3.2	MATC/GRO//	fingerling	LAB//K	4	67	7.4	29.1		14210
196	29525	<i>Cirrhinus mrigala</i>	7733020	3.2	NR-ZERO/MOR/NEF/	fingerling	LAB//K	4	67	7.4	29.1		14210
196	28215	<i>Colisa fasciata</i>	7733020	43.4	LC50/MOR//	adult, female, 4.63 g	LAB/S/I	4	120	7.3	25	electrical conductivity 55 umhos/cm	8401
196	29717	<i>Colisa fasciata</i>	7733020	40	/BCM//	adult, female, 4.63 g	LAB/S/S	3.75	120	7.3	25	electrical conductivity 55 umhos/cm	8401
196	26288	<i>Cyprinus carpio</i>	7440666	30	LC50/MOR/INC/	20 g	LAB//	4	100	7.6	28		17040
196	26577	<i>Cyprinus carpio</i>	7440666	6	/PHY/INC/SIG	20 g	LAB//C	8	100	7.6	28		17040
196	26578	<i>Cyprinus carpio</i>	7440666	6	/ENZ/INC/SIG	20 g	LAB//C	8	100	7.6	28		17040
196	26579	<i>Cyprinus carpio</i>	7440666	6	/ENZ/INC/	20 g	LAB//C	8	100	7.6	28		17040
196	26580	<i>Cyprinus carpio</i>	7440666	6	/BCM/INC/	20 g	LAB//C	8	100	7.6	28		17040
196	28238	<i>Cyprinus carpio</i>	7733020	0.15	LC50/MOR//	4-5 cm	LAB/R/S	4	108	7.5	27	co3, hco3, so4, po4, cl, no2, sio3, fe	2077
196	26301	<i>Danio rerio</i>	7440666	2	LOEC/MOR/INC/SIG	embryo, 4 cell stage, 1 h after	LAB//C	6	62.5	6.75	26.5		19687
196	26304	<i>Danio rerio</i>	7440666	1.5	NOEC/MOR/INC/NOSIG	embryo, 4 cell stage, 1 h after	LAB//C	6	62.5	6.75	26.5		19687

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
196	29799	<i>Jordanella floridae</i>	7733020	0.575	/MOR//	adult	LAB/F/I	17	73	7.3	25	conductivity 141 umhos/cm	2464
196	29815	<i>Lepomis macrochirus</i>	7733020	0.1	/BEH//	5 cm	LAB/S/I	14	105	6.5	22		15561
196	26918	<i>Micropterus salmoides</i>	7646857	5.16	LC50/MOR//	eggs	LAB/R/S	8	99	7.5	20.5		6199
196	27524	<i>Pimephales promelas</i>	7646857	6.09	LC50/MOR/INC/	40 mm	LAB/S/C	4	100	7.4	22	newton hatchery fish	10237
196	27525	<i>Pimephales promelas</i>	7646857	6.14	LC50/MOR/INC/	40 mm	LAB/S/C	4	100	7.4	22	flyash pond fish	10237
196	29209	<i>Pimephales promelas</i>	7733020	0.8	EC50/GRO//	embryo	LAB/R/S	6	100	7	23		657
196	29210	<i>Pimephales promelas</i>	7733020	0.6	EC50/GRO//	embryo	LAB/R/S	6	100	7	23		657
196	29211	<i>Pimephales promelas</i>	7733020	1.51	EC50/DVP/INC/		LAB/R/M	7	106	7.25	24		45211
196	29212	<i>Pimephales promelas</i>	7733020	1.25	EC50/DVP/INC/		LAB/R/M	7	106	7.25	24		45211
196	29213	<i>Pimephales promelas</i>	7733020	5.73	EC50/DVP/INC/		LAB/R/M	5	106	7.25	24		45211
196	29214	<i>Pimephales promelas</i>	7733020	5.51	EC50/DVP/INC/		LAB/R/M	5	106	7.25	24		45211
196	29219	<i>Pimephales promelas</i>	7733020	3.6	LC50/MOR//	embryo	LAB/R/S	6	100	7	23		657
196	29274	<i>Pimephales promelas</i>	7733020	10.55	LC50/MOR/INC/		LAB/R/M	5	106	7.25	24		45211
196	29275	<i>Pimephales promelas</i>	7733020	11	LC50/MOR/INC/		LAB/R/M	5	106	7.25	24		45211
196	29276	<i>Pimephales promelas</i>	7733020	5.14	LC50/MOR/INC/		LAB/R/M	7	106	7.25	24		45211
196	29277	<i>Pimephales promelas</i>	7733020	5.49	LC50/MOR/INC/		LAB/R/M	7	106	7.25	24		45211
196	29295	<i>Pimephales promelas</i>	7733020	12.5	LC50/MOR//	1-2 g	LAB/F/S	4	63	6.3	25		2118
196	29298	<i>Pimephales promelas</i>	7733020	25	LC50/MOR//	1-2 g	LAB/F/S	4	103	6	25		2118
196	29302	<i>Pimephales promelas</i>	7733020	6.2	LC50/MOR//	1-2 g	LAB/F/S	4	63	7.25	25		2118
196	29303	<i>Pimephales promelas</i>	7733020	12.5	LC50/MOR//	1-2 g	LAB/F/S	4	100	7	25		2118

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
196	29304	<i>Pimephales promelas</i>	7733020	12.5	LC50/MOR//	1-2 g	LAB/F/S	4	99	6.95	25		2118
196	29309	<i>Pimephales promelas</i>	7733020	8.1	LC50/MOR//	1-2 g	LAB/F/S	4	98	7.5	25		2118
196	29310	<i>Pimephales promelas</i>	7733020	9.9	LC50/MOR//	1-2 g	LAB/F/S	4	102	7.65	25		2118
196	29324	<i>Pimephales promelas</i>	7733020	0.9	LOEC/GRO//	embryo	LAB/R/S	6	100	7	23		657
196	29325	<i>Pimephales promelas</i>	7733020	0.6	LOEC/GRO//	embryo	LAB/R/S	6	100	7	23		657
196	29487	<i>Xenopus laevis</i>	7733020	3.6	EC50/GRO//	embryo	LAB/R/S	4	100	7	23		657
196	29489	<i>Xenopus laevis</i>	7733020	2.83	EC50/DVP/INC/		LAB/R/M	4	106	7.25	24		45211
196	29490	<i>Xenopus laevis</i>	7733020	2.65	EC50/DVP/INC/		LAB/R/M	4	106	7.25	24		45211
196	29491	<i>Xenopus laevis</i>	7733020	34.5	LC50/MOR//	embryo	LAB/R/S	4	100	7	23		657
196	29494	<i>Xenopus laevis</i>	7733020	28.65	LC50/MOR/INC/		LAB/R/M	4	106	7.25	24		45211
196	29495	<i>Xenopus laevis</i>	7733020	25.35	LC50/MOR/INC/		LAB/R/M	4	106	7.25	24		45211
196	29496	<i>Xenopus laevis</i>	7733020	4.2	LOEC/GRO//	embryo	LAB/R/S	4	100	7	23		657
196	29497	<i>Xenopus laevis</i>	7733020	1.75	LOEC/GRO/DEC/SIG		LAB/R/M	4	106	7.25	24		45211
196	29498	<i>Xenopus laevis</i>	7733020	2	LOEC/GRO/DEC/SIG		LAB/R/M	4	106	7.25	24		45211
196	29499	<i>Xenopus laevis</i>	7733020	0.75	LOEC/GRO/DEC/SIG		LAB/R/M	7	106	7.25	24		45211
196	29500	<i>Xenopus laevis</i>	7733020	0.75	LOEC/GRO/DEC/SIG		LAB/R/M	7	106	7.25	24		45211
197	Vertebrates exposed to zinc in soft water at <15degC over 3-30 days exposure												
197	27958	<i>Anguilla japonica</i>	7733020	8.11	LC50/MOR/INC/	juvenile, 0.135 g, 5.6 cm	LAB/R/	4	31.5	7.555	15		18914
197	26746	<i>Catostomus commersoni</i>	7646857	2.2	LC50/MOR//	17.7 g, 121 mm, fork length	LAB/F/I	4	18	6.37	12.1	water profile given	10228
197	28247	<i>Cyprinus carpio</i>	7733020	3.12	LC50/MOR/INC/	1.4-2.6 g, 47-62 mm	LAB/R/S	4	19	6.3	15	acidity 18(15-23) mg/l, ca, mg	11716
197	28729	<i>Lepomis macrochirus</i>	7733020	2.78	LC0/MOR//	37 g, 127 mm	LAB/S/S	4	46	7.95	9		8469
197	28747	<i>Lepomis macrochirus</i>	7733020	6.44	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7	15		2033
197	30151	<i>Lepomis macrochirus</i>	7779900	0.5	LC0/MOR//	37 g, 127 mm	LAB/S/I	4	46	6	8		8469
197	30152	<i>Lepomis macrochirus</i>	7779900	0.5	LC0/MOR//	37 g, 127 mm	LAB/S/I	4	46	8	8		8469
197	26437	<i>Oncorhynchus clarki</i>	7440666	0.64	LC50/MOR/INC/	14.4 cm	LAB/F/C	14	40	7.2	8.45		5535
197	26594	<i>Oncorhynchus clarki</i>	7440666	0.83	NR-LETH/MOR/INC/	14.4 cm	LAB/F/C	5.38	34	7.2	8.4		5535
197	26595	<i>Oncorhynchus clarki</i>	7440666	0.85	NR-LETH/MOR/INC/	14.4 cm	LAB/F/C	6.38	34	7.2	8.3		5535

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
197	26967	<i>Oncorhynchus kisutch</i>	7646857	0.182	LC50/MOR//	alevins-buttoned-up fry	LAB/R/I	4	22	7.4	10	water parameters rpt, willamette river, organic carbon 3.4	111
197	26968	<i>Oncorhynchus kisutch</i>	7646857	0.905	LC50/MOR/INC/		LAB/F/C	4	25	7.4	13.7		2060
197	28892	<i>Oncorhynchus kisutch</i>	7733020	0.5	LC50/MOR//	fingerling	LAB/R/I	4	5.6	6.2	11	conductivity 14.5 umhocm, residual cl2	5720
197	28893	<i>Oncorhynchus kisutch</i>	7733020	0.87	LC50/MOR//	fingerling	LAB/R/I	4	5.6	6.2	11	conductivity 14.5 umhocm, residual cl2	5720
197	26448	<i>Oncorhynchus mykiss</i>	7440666	0.41	LC50/MOR/INC/	13.5 cm	LAB/F/C	14	35.5	7.3	7.85		5535
197	26600	<i>Oncorhynchus mykiss</i>	7440666	0.83	NR-LETH/MOR/INC/	13.5 cm	LAB/F/C	5	28	7.3	7.8		5535
197	26601	<i>Oncorhynchus mykiss</i>	7440666	0.92	NR-LETH/MOR/INC/	13.5 cm	LAB/F/C	5.67	27	7.3	7.8		5535
197	26984	<i>Oncorhynchus mykiss</i>	7646857	0.17	LC50/MOR//	juvenile, 4.5-7.4 g	LAB/F/I	4.5	30.2	7	15	co2, reconstituted deionized water	11310
197	26985	<i>Oncorhynchus mykiss</i>	7646857	0.19	LC50/MOR//	juvenile, 4.5-7.4 g	LAB/F/I	4.5	31.2	7.04	15	co2, reconstituted deionized water	11310
197	26986	<i>Oncorhynchus mykiss</i>	7646857	0.11	LC50/MOR//	juvenile, 4.5-7.4 g	LAB/F/I	4.5	31.3	6.97	15	diluted well water	11310
197	26997	<i>Oncorhynchus mykiss</i>	7646857	0.132	LC50/MOR//	7 mo, 4.95 g, 8.6 cm, juvenile	LAB/F/I	4	33	6.6	12.6		791
197	26998	<i>Oncorhynchus mykiss</i>	7646857	0.095	LC50/MOR//	7 mo, 4.95 g, 8.6 cm, juvenile	LAB/F/I	4	33	6.6	12.6		791
197	26999	<i>Oncorhynchus mykiss</i>	7646857	0.141	LC50/MOR//	7 mo, 4.95 g, 8.6 cm, juvenile	LAB/F/I	4	33	6.6	12.6		791
197	27000	<i>Oncorhynchus mykiss</i>	7646857	0.107	LC50/MOR//	7 mo, 4.95 g, 8.6 cm, juvenile	LAB/F/I	4	33	6.6	12.6		791
197	27001	<i>Oncorhynchus mykiss</i>	7646857	0.212	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/I	4	33	6.6	12.6		791
197	27002	<i>Oncorhynchus mykiss</i>	7646857	0.344	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/I	4	33	6.6	12.6		791
197	27003	<i>Oncorhynchus mykiss</i>	7646857	0.297	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/I	4	33	6.6	12.6		791
197	27004	<i>Oncorhynchus mykiss</i>	7646857	0.469	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/I	4	33	6.6	12.6		791

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
197	27005	<i>Oncorhynchus mykiss</i>	7646857	0.181	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/I	4	33	6.6	12.6		791
197	27006	<i>Oncorhynchus mykiss</i>	7646857	0.246	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/I	4	33	6.6	12.6		791
197	27007	<i>Oncorhynchus mykiss</i>	7646857	0.251	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/I	4	33	6.6	12.6		791
197	27008	<i>Oncorhynchus mykiss</i>	7646857	0.271	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/I	4	33	6.6	12.6		791
197	27009	<i>Oncorhynchus mykiss</i>	7646857	0.191	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/I	4	33	6.6	12.6		791
197	27010	<i>Oncorhynchus mykiss</i>	7646857	0.204	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/I	4	33	6.6	12.6		791
197	27011	<i>Oncorhynchus mykiss</i>	7646857	0.226	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/I	4	33	6.6	12.6		791
197	27012	<i>Oncorhynchus mykiss</i>	7646857	0.17	LC50/MOR//	juvenile, 5 mo, 3.0 g, 7.0 cm	LAB/F/S	5	33	6.6	12.6		791
197	27015	<i>Oncorhynchus mykiss</i>	7646857	0.815	LC50/MOR//	alevin	LAB/F/S	4	23	7.1	12.2		2027
197	27016	<i>Oncorhynchus mykiss</i>	7646857	0.093	LC50/MOR//	swim-up, 0.17 g	LAB/F/S	4	23	7.1	12.2		2027
197	27017	<i>Oncorhynchus mykiss</i>	7646857	0.136	LC50/MOR//	parr, 6.96 g, 8.6 cm	LAB/F/S	4	23	7.1	12.2		2027
197	27018	<i>Oncorhynchus mykiss</i>	7646857	0.651	LC50/MOR//	smolt, 68.19 g, 18.8 cm	LAB/F/S	4	23	7.1	12.2		2027
197	27019	<i>Oncorhynchus mykiss</i>	7646857	0.555	LC50/MOR//	alevin	LAB/F/S	7.75	23	7.1	12.2		2027
197	27020	<i>Oncorhynchus mykiss</i>	7646857	0.093	LC50/MOR//	swim-up, 0.17 g	LAB/F/S	8.33	23	7.1	12.2		2027
197	27021	<i>Oncorhynchus mykiss</i>	7646857	0.12	LC50/MOR//	parr, 6.96 g, 8.6 cm	LAB/F/S	8.33	23	7.1	12.2		2027
197	27022	<i>Oncorhynchus mykiss</i>	7646857	0.278	LC50/MOR//	smolt, 68.19 g, 18.8 cm	LAB/F/S	8.33	23	7.1	12.2		2027
197	27818	<i>Oncorhynchus mykiss</i>	7646857	0.1	/MOR//		LAB/S	4	46	7	10		5302
197	27819	<i>Oncorhynchus mykiss</i>	7646857	0.01	/MOR//		LAB/S	4	46	7	10		5302
197	27827	<i>Oncorhynchus mykiss</i>	7646857	0.1305	/PHY//	smolt, 55.4-122.4 g,	LAB/F/S	4	25	7	11.95		10439
197	27828	<i>Oncorhynchus mykiss</i>	7646857	0.147	/PHY//	smolt, 122.4 g, 24.0 cm fork length	LAB/F/S	4	26	7	8		10439

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
197	28901	<i>Oncorhynchus mykiss</i>	7733020	0.34	LC50/MOR//	2600 mg	LAB/F/S	4	58	7.3	15		12401
197	28913	<i>Oncorhynchus mykiss</i>	7733020	0.04	LC50/MOR//	fingerling	LAB/R/I	4	5.6	6.2	11	conductivity 14.5 umhocm, residual cl2	5720
197	28914	<i>Oncorhynchus mykiss</i>	7733020	0.04	LC50/MOR//	fingerling	LAB/R/I	4	5.6	6.2	11	conductivity 14.5 umhocm, residual cl2	5720
197	28942	<i>Oncorhynchus mykiss</i>	7733020	0.135	LC50/MOR/INC/	eyed eggs until sexual maturity	LAB/F/M	5	26	6.8	12.7		2110
197	29581	<i>Oncorhynchus mykiss</i>	7733020	0.18	/BCM/CHG/MULT	20.5 cm, juvenile	LAB/F/S	20	6.25	6.5	7.95		11352
197	30153	<i>Oncorhynchus mykiss</i>	7779900	0.09	LC50/MOR//	180 d, 1.5 g	LAB/R/I	4	20	7	10		2023
197	30154	<i>Oncorhynchus mykiss</i>	7779900	0.05	/MOR//	180 d, 1.5 g	LAB/R/I	4	20	7	10		2023
197	30315	<i>Oncorhynchus mykiss</i>	7440666	0.092	/MOR/NEF/		FIELDN/E/O	14	25.5	7.3	10	0.5 m diameter x 1.5 m cage	10107
197	30316	<i>Oncorhynchus mykiss</i>	7440666	0.092	/GRO/CHG/		FIELDN/E/O	14	25.5	7.3	10	0.5 m diameter x 1.5 m cage	10107
197	30317	<i>Oncorhynchus mykiss</i>	7440666	0.092	/BCM/INC/		FIELDN/E/O	14	25.5	7.3	10	0.5 m diameter x 1.5 m cage	10107
197	27467	<i>Oncorhynchus nerka</i>	7646857	0.447	LC50/MOR//	alevin, 1 mo	LAB/F/I	4.79	22	7.3	12.4	outdoor tanks	2123
197	27468	<i>Oncorhynchus nerka</i>	7646857	0.749	LC50/MOR//	parr, 9 mo	LAB/F/I	4	22	7.3	12.4	outdoor tanks	2123
197	27469	<i>Oncorhynchus tshawytscha</i>	7646857	0.661	LC50/MOR//	alevin, 0.05 g	LAB/F/S	4	23	7.1	12.2		2027
197	27470	<i>Oncorhynchus tshawytscha</i>	7646857	0.097	LC50/MOR//	swim-up, 0.23 g	LAB/F/S	4	23	7.1	12.2		2027
197	27471	<i>Oncorhynchus tshawytscha</i>	7646857	0.463	LC50/MOR//	parr, 11.58 g, 9.6 cm	LAB/F/S	4	23	7.1	12.2		2027
197	27472	<i>Oncorhynchus tshawytscha</i>	7646857	0.701	LC50/MOR//	smolt, 32.46 g, 14.4 cm	LAB/F/S	4	23	7.1	12.2		2027
197	27473	<i>Oncorhynchus tshawytscha</i>	7646857	0.661	LC50/MOR//	alevin, 0.05 g	LAB/F/S	8.33	23	7.1	12.2		2027
197	27474	<i>Oncorhynchus tshawytscha</i>	7646857	0.097	LC50/MOR//	swim-up, 0.23 g	LAB/F/S	8.33	23	7.1	12.2		2027
197	27475	<i>Oncorhynchus tshawytscha</i>	7646857	0.395	LC50/MOR//	parr, 11.58 g, 9.6 cm	LAB/F/S	8.33	23	7.1	12.2		2027
197	27476	<i>Oncorhynchus tshawytscha</i>	7646857	0.364	LC50/MOR//	smolt, 32.46 g, 14.4 cm	LAB/F/S	8.33	23	7.1	12.2		2027

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
197	29272	<i>Pimephales promelas</i>	7733020	0.66	LC50/MOR//		LAB/F/I	4	35	6.86	7		7341
197	29287	<i>Pimephales promelas</i>	7733020	2.55	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7	15		2033
197	29288	<i>Pimephales promelas</i>	7733020	2.33	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7	15		2033
197	27569	<i>Ptychocheilus oregonensis</i>	7646857	3.498	LC50/MOR//	juvenile, 6.85 g, 8.6 cm	LAB/F/S	4	25	7.3	9.5		461
197	27570	<i>Ptychocheilus oregonensis</i>	7646857	2.948	LC50/MOR//	juvenile, 6.85 g, 8.6 cm	LAB/F/S	7	25	7.3	9.5		461
197	27571	<i>Ptychocheilus oregonensis</i>	7646857	3.693	LC50/MOR//	juvenile, 0.51 g, 3.7 cm	LAB/F/S	4	25	7.3	12.4		461
197	27572	<i>Ptychocheilus oregonensis</i>	7646857	3.65	LC50/MOR//	juvenile, 0.51 g, 3.7 cm	LAB/F/S	7	25	7.3	12.4		461
197	29374	<i>Rana hexadactyla</i>	7733020	2.1	LC50/MOR/INC/	20(15-25) mm, 500(350-800) mg,	LAB/R/I	4	20	6.1	15	acidity, ca, mg	11438
197	29382	<i>Rana hexadactyla</i>	7733020	2.1	LC50/MOR//	tadpole, 20 mm, 500 mg	LAB/S/S	4	20	6.2	15	acidity 19 mg/l	11395
197	29396	<i>Salmo salar</i>	7733020	1.45	LC50/MOR//	juvenile, 4.8 g	LAB/F/S	21	18.25	6.6	10	residual cl was nondetectable, humic acids < 1-4 mg/lgr	5568
197	29397	<i>Salmo salar</i>	7733020	1.6	LC50/MOR//	juvenile, 5.5 g	LAB/F/S	21	18.25	6.6	10	residual cl was nondetectable, humic acids < 1-4 mg/l	5568
197	29398	<i>Salmo salar</i>	7733020	0.51	LC50/MOR//	juvenile, 9.2 g	LAB/F/S	21	18.25	6.6	10	residual cl was nondetectable, humic acids < 1-4 mg/l	5568
197	29399	<i>Salmo salar</i>	7733020	1.46	LC50/MOR//	juvenile, 9.6 g	LAB/F/S	21	18.25	6.6	10	residual cl was nondetectable, humic acids < 1-4 mg/l rsd	5568
197	29400	<i>Salmo salar</i>	7733020	0.34	LC50/MOR//	juvenile, 10.1 g	LAB/F/S	21	18.25	6.6	10	residual cl was nondetectable, humic acids < 1-4 mg/l	5568

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
197	29401	<i>Salmo salar</i>	7733020	0.35	LC50/MOR//	juvenile, 16.7 g	LAB/F/S	21	18.25	6.6	10	residual cl was nondetectable, humic acids < 1-4 mg/l rsd	5568
197	29994	<i>Salmo salar</i>	7733020	0.936	/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	4	14	6.8	4.3	mg	8483
197	26521	<i>Salmo trutta</i>	7440666	0.64	LC50/MOR/INC/	8.3 cm	LAB/F/C	14	38.5	7.2	7.4		5535
197	26611	<i>Salmo trutta</i>	7440666	0.23	NR-ZERO/MOR/NEF/	8.3 cm	LAB/F/C	14	54	7.2	7.7		5535
198	Vertebrates exposed to zinc in soft water at <15degC over 1-3 days exposure												
198	26744	<i>Catostomus commersoni</i>	7646857	2.96	LC50/MOR//	17.7 g, 121 mm, fork length	LAB/F/I	2	18	6.37	12.1	water profile given	10228
198	26745	<i>Catostomus commersoni</i>	7646857	2.48	LC50/MOR//	17.7 g, 121 mm, fork length	LAB/F/I	3	18	6.37	12.1	water profile given	10228
198	26747	<i>Catostomus commersoni</i>	7646857	5	LT50/MOR//	17.7 g, 121 mm, fork length	LAB/F/I	1.1	18	6.37	12.1	water profile given	10228
198	28242	<i>Cyprinus carpio</i>	7733020	7.28	LC50/MOR//	2.1(1.4-2.6) g, 56(47-62) mm	LAB/S/S	2	19	6.3	15	acidity, ca, mg	10782
198	28245	<i>Cyprinus carpio</i>	7733020	7.28	LC50/MOR/INC/	1.4-2.6 g, 47-62 mm	LAB/R/S	2	19	6.3	15	acidity 18(15-23) mg/l, ca, mg	11716
198	28246	<i>Cyprinus carpio</i>	7733020	5.56	LC50/MOR/INC/	1.4-2.6 g, 47-62 mm	LAB/R/S	3	19	6.3	15	acidity 18(15-23) mg/l, ca, mg	11716
198	28731	<i>Lepomis macrochirus</i>	7733020	30.48	LC100/MOR//	37 g, 127 mm	LAB/S/S	3	46	6	9		8469
198	28746	<i>Lepomis macrochirus</i>	7733020	6.14	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7	15		2033
198	26596	<i>Oncorhynchus clarki</i>	7440666	1	NR-LETH/MOR/INC/	14.4 cm	LAB/F/C	3	22	7.2	8.5		5535
198	26597	<i>Oncorhynchus clarki</i>	7440666	0.98	NR-LETH/MOR/INC/	14.4 cm	LAB/F/C	2.33	24	7.2	8.5		5535
198	26602	<i>Oncorhynchus mykiss</i>	7440666	1.27	NR-LETH/MOR/INC/	13.5 cm	LAB/F/C	2.63	20	7.3	8		5535
198	27433	<i>Oncorhynchus mykiss</i>	7646857	1	LT50/MOR//		LAB//S	1.91	46	7	10		5302
198	29285	<i>Pimephales promelas</i>	7733020	2.55	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7	15		2033
198	29286	<i>Pimephales promelas</i>	7733020	2.7	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7	15		2033
198	29375	<i>Rana hexadactyla</i>	7733020	3.17	LC50/MOR/INC/	20(15-25) mm, 500(350-800) mg,	LAB/R/I	3	20	6.1	15	acidity, ca, mg	11438
198	29376	<i>Rana hexadactyla</i>	7733020	3.66	LC50/MOR/INC/	20(15-25) mm, 500(350-800) mg,	LAB/R/I	2	20	6.1	15	acidity, ca, mg	11438

mg total metal/L, hardness in mg CaCO3/L

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SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
198	29380	<i>Rana hexadactyla</i>	7733020	3.66	LC50/MOR//	tadpole, 20 mm, 500 mg	LAB/S/S	2	20	6.2	15	acidity 19 mg/l	11395
198	29381	<i>Rana hexadactyla</i>	7733020	3.17	LC50/MOR//	tadpole, 20 mm, 500 mg	LAB/S/S	3	20	6.2	15	acidity 19 mg/l	11395
198	29406	<i>Salmo salar</i>	7733020	0.962	LT50/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	1.04	14	6.8	4.3	ca	8483
198	29407	<i>Salmo salar</i>	7733020	0.917	LT50/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	1.25	14	6.8	4.3	mg	8483
198	29408	<i>Salmo salar</i>	7733020	0.956	LT50/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	1.54	14	6.8	4.3	mg	8483
198	29992	<i>Salmo salar</i>	7733020	0.917	/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	1.54	14	6.8	4.3	ca	8483
198	29993	<i>Salmo salar</i>	7733020	0.936	/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	1.96	14	6.8	4.3	mg	8483
199	Vertebrates exposed to zinc in soft water at <15degC over <=1 day exposure												
199	28040	<i>Carassius auratus</i>	7733020	103	LC50/MOR//	1.93(0.6-5.8) g, 4.59(3.1-6.6) mm	LAB/S/I	1	36	7.1	5		518
199	28041	<i>Carassius auratus</i>	7733020	40	LC50/MOR//	1.93(0.6-5.8) g, 4.59(3.1-6.6) mm	LAB/S/I	1	36	7.1	15		518
199	26742	<i>Catostomus commersoni</i>	7646857	13.3	LC50/MOR//	17.7 g, 121 mm, fork length	LAB/F/I	0.5	18	6.37	12.1	water profile given	10228
199	26743	<i>Catostomus commersoni</i>	7646857	5.58	LC50/MOR//	17.7 g, 121 mm, fork length	LAB/F/I	1	18	6.37	12.1	water profile given	10228
199	28241	<i>Cyprinus carpio</i>	7733020	9.04	LC50/MOR//	2.1(1.4-2.6) g, 56(47-62) mm	LAB/S/S	1	19	6.3	15	acidity, ca, mg	10782
199	28243	<i>Cyprinus carpio</i>	7733020	10.77	LC50/MOR/INC/	1.4-2.6 g, 47-62 mm	LAB/R/S	0.5	19	6.3	15	acidity 18(15-23) mg/l, ca, mg	11716
199	28244	<i>Cyprinus carpio</i>	7733020	9.04	LC50/MOR/INC/	1.4-2.6 g, 47-62 mm	LAB/R/S	1	19	6.3	15	acidity 18(15-23) mg/l, ca, mg	11716
199	28732	<i>Lepomis macrochirus</i>	7733020	23	LC50/MOR//	0.64(0.1-3.6) g, 3.43(2.2-5.8) mm	LAB/S/I	1	36	7.1	5		518
199	28733	<i>Lepomis macrochirus</i>	7733020	19.1	LC50/MOR//	0.64(0.1-3.6) g, 3.43(2.2-5.8) mm	LAB/S/I	1	36	7.1	15		518
199	28745	<i>Lepomis macrochirus</i>	7733020	7.95	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7	15		2033
199	28870	<i>Notemigonus crysoleucas</i>	7733020	11.4	LC50/MOR//	2.56(0.6-4.9) g, 6.42(3.2-7.6) mm	LAB/S/I	1	36	7.1	5		518
199	28871	<i>Notemigonus crysoleucas</i>	7733020	7.76	LC50/MOR//	2.56(0.6-4.9) g, 6.42(3.2-7.6) mm	LAB/S/I	1	36	7.1	15		518
199	27730	<i>Oncorhynchus clarki</i>	7646857	0.066	/AVO/DEC/SIG		LAB/F/C	0.01	50	7.2	12		45186

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
199	27731	<i>Oncorhynchus clarki</i>	7646857	0.066	/AVO/DEC/NOSIG		LAB/F/C	0.01	50	7.2	12		45186
199	27732	<i>Oncorhynchus clarki</i>	7646857	0.066	/AVO/DEC/SIG		LAB/F/C	0.01	50	7.2	12		45186
199	27814	<i>Oncorhynchus kisutch</i>	7646857		/BEH//	< 1 yr, 2.9 g	LAB/F/S	0.07	30.5	6.72	2	mg hardness, no3, nh3, po4, sio2, toc	12086
199	28890	<i>Oncorhynchus kisutch</i>	7733020	0.31	EC50/AVO//	fingerling	LAB/F/I	0.04	5.6	6.2	11	conductivity 14.5 umhocm, residual cl2	5720
199	28891	<i>Oncorhynchus kisutch</i>	7733020	0.008	EC50/AVO//	fingerling	LAB/F/I	0.04	5.6	6.2	11	conductivity 14.5 umhocm, residual cl2	5720
199	27432	<i>Oncorhynchus mykiss</i>	7646857	10	LT50/MOR//		LAB/S	0.27	46	7	10		5302
199	28894	<i>Oncorhynchus mykiss</i>	7733020	0.036	EC50/AVO//	fingerling	LAB/F/I	0.04	5.6	6.2	11	conductivity 14.5 umhocm, residual cl2	5720
199	28895	<i>Oncorhynchus mykiss</i>	7733020	0.011	EC50/AVO//	fingerling	LAB/F/I	0.04	5.6	6.2	11	conductivity 14.5 umhocm, residual cl2	5720
199	28897	<i>Oncorhynchus mykiss</i>	7733020	0.005	EC50/AVO/INC/	6.5-12.0 cm	LAB/F/	0.01	14	7.2	9.5	background zn 3-13 ug	3824
199	28910	<i>Oncorhynchus mykiss</i>	7733020	1.56	LC50/MOR//	4.42(1.1-11.8) g,	LAB/S/I	1	36	7.1	12		518
199	28912	<i>Oncorhynchus mykiss</i>	7733020	2.8	LC50/MOR//	4.42(1.1-11.8) g,	LAB/S/I	1	36	7.1	5		518
199	29840	<i>Oncorhynchus mykiss</i>	7733020	1.43	/BCM//	415 g	LAB/F/S	1	59.5	7.8	15		8363
199	29842	<i>Oncorhynchus mykiss</i>	7733020	40	/PHY//	8-12 g, 9-11 cm	LAB/S/I	0.13	50	7.3	15		9197
199	29843	<i>Oncorhynchus mykiss</i>	7733020	40	/HIS//	8-12 g, 9-11 cm	LAB/S/I	0.13	50	7.3	15		9197
199	29912	<i>Oncorhynchus mykiss</i>	7733020	40	/BCM//	100.9 (66.2-140.8) g	LAB/F/S	1	51	7.8	15		8321
199	29284	<i>Pimephales promelas</i>	7733020	3.21	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7	15		2033
199	29377	<i>Rana hexadactyla</i>	7733020	7.82	LC50/MOR/INC/	20(15-25) mm, 500(350-800) mg,	LAB/R/I	1	20	6.1	15	acidity, ca, mg	11438
199	29378	<i>Rana hexadactyla</i>	7733020	20.18	LC50/MOR//	tadpole, 20 mm, 500 mg	LAB/S/S	0.5	20	6.2	15	acidity 19 mg/l	11395
199	29379	<i>Rana hexadactyla</i>	7733020	7.82	LC50/MOR//	tadpole, 20 mm, 500 mg	LAB/S/S	1	20	6.2	15	acidity 19 mg/l	11395

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
199	29405	<i>Salmo salar</i>	7733020	0.936	LT50/MOR//	juvenile, 8.92 cm, 7.38 g	LAB/F/S	0.96	14	6.8	4.3	ca	8483
200	Vertebrates exposed to zinc in soft water at >15degC over 3-30 days exposure												
200	27956	<i>Anguilla japonica</i>	7733020	2.8	LC50/MOR/INC/	juvenile, 0.135 g, 5.6 cm	LAB/R/	4	44.5	7.585	30		18914
200	27957	<i>Anguilla japonica</i>	7733020	6.38	LC50/MOR/INC/	juvenile, 0.135 g, 5.6 cm	LAB/R/	4	45.5	7.55	25		18914
200	29511	<i>Anguilla japonica</i>	7733020	142	/GRO/CHG/NOSIG	juvenile, 0.135 g, 5.6 cm	LAB/R/C	28	39	7.555	22.5		18914
200	29512	<i>Anguilla japonica</i>	7733020	142	/FDB/CHG/NOSIG	juvenile, 0.135 g, 5.6 cm	LAB/R/C	28	39	7.555	22.5		18914
200	29513	<i>Anguilla japonica</i>	7733020	173.5	/PHY/DEC/SIG	juvenile, 0.135 g, 5.6 cm	LAB/R/C	28	39	7.555	22.5		18914
200	29514	<i>Anguilla japonica</i>	7733020	102	/PHY/CHG/NOSIG	juvenile, 0.135 g, 5.6 cm	LAB/R/C	28	39	7.555	22.5		18914
200	26242	<i>Anguilla rostrata</i>	7440666	14.5	LC50/MOR//		LAB/S/I	4	55	8	28		2002
200	30029	<i>Anguilla rostrata</i>	7779886	14.6	LC50/MOR//		LAB/S/I	4	53	7.8	17		2001
200	26739	<i>Carassius auratus</i>	7646857	10.72	LC50/MOR/INC/	5-8 cm	LAB/R/	4	9.5	6.5	28		16991
200	26740	<i>Carassius auratus</i>	7646857	7.96	LC50/MOR/INC/	5-8 cm	LAB/R/	5	9.5	6.5	28		16991
200	26741	<i>Carassius auratus</i>	7646857	5.42	LC50/MOR/INC/	5-8 cm	LAB/R/	6	9.5	6.5	28		16991
200	28045	<i>Carassius auratus</i>	7733020	6.44	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7	25		2033
200	29695	<i>Carassius auratus</i>	7733020	5.6	/BEH//	3.2 g, 7.2 cm	LAB/S/S	4	51	7.4	22.5		8322
200	28220	<i>Craterocephalus stercusmuscaru</i>	7733020	0.6	LC50/MOR/INC/	0.07 g, 19.9 mm	LAB/S/C	4	16.5	7.2	27	buffalo billabong water	4126
200	26295	<i>Cyprinus carpio</i>	7440666	7.8	LC50/MOR//		LAB/S/I	4	55	8	28		2002
200	28240	<i>Cyprinus carpio</i>	7733020	21.4	LC50/MOR//	1 yr, yearling, 30 g, 10-12 cm	LAB/S/I	4	1.5	6.5	17.75		8459
200	30033	<i>Cyprinus carpio</i>	7779886	7.8	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
200	28692	<i>Jordanella floridae</i>	7733020	1.5	LC50/MOR//	juvenile, 4-5 wk	LAB/F/I	4	44	7.45	25		2037
200	28693	<i>Jordanella floridae</i>	7733020	0	LC50/MOR/INC/	juvenile, 4-5 wk	LAB/F/C	4	44	7.45	25		2442
200	28697	<i>Jordanella floridae</i>	7733020	0	LOEC/MOR/INC/SIG	juvenile, 4-5 wk	LAB/F/C	4	44	7.45	25		2442
200	28702	<i>Jordanella floridae</i>	7733020	0	MATC/MOR/INC/	juvenile, 4-5 wk	LAB/F/C	4	44	7.45	25		2442
200	28706	<i>Jordanella floridae</i>	7733020	0	NOEC/MOR/INC/NOSIG	juvenile, 4-5 wk	LAB/F/C	4	44	7.45	25		2442
200	29552	<i>Jordanella floridae</i>	7733020	0.267	/MOR//SIG	embryo	LAB/F/S	30	44	7.45	25		2037
200	29554	<i>Jordanella floridae</i>	7733020	0.085	/MOR//SIG	newly hatched fry	LAB/F/S	30	44	7.45	25		2037
200	29555	<i>Jordanella floridae</i>	7733020	0.051	/MOR//NOSIG	newly hatched fry	LAB/F/S	30	44	7.45	25		2037
200	29557	<i>Jordanella floridae</i>	7733020	0.139	/MOR/INC/SIG	embryo	LAB/F/C	22	45	7.5	25		15954
200	29558	<i>Jordanella floridae</i>	7733020	0.139	/GRO/DEC/NOSIG	embryo	LAB/F/C	22	45	7.5	25		15954
200	29559	<i>Jordanella floridae</i>	7733020	0.139	/GRO/DEC/NOSIG	f1 generation	LAB/F/C	22	45	7.5	25		15954

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

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200	29563	<i>Jordanella floridae</i>	7733020	0.139	NR-LETH/MOR/INC/SIG	1 d larvae	LAB/F/C	22	45	7.5	25		15954
200	29564	<i>Jordanella floridae</i>	7733020	0.014	NR-LETH/MOR/INC/		LAB/F/C	30	44	7.45	25	with or without pre-exposed embryos	2442
200	28719	<i>Lepidocephalichthyes guntea</i>	7733020	15	LC50/MOR/INC/	5.07 cm	LAB/R/	4	30	7.6	24		243
200	28723	<i>Lepidocephalichthyes guntea</i>	7733020	23.3	LC50/MOR/INC/	5.07 cm	LAB/R/	4	30	7.6	24		243
200	26387	<i>Lepomis gibbosus</i>	7440666	20.1	LC50/MOR//		LAB/S/I	4	55	8	28		2002
200	30045	<i>Lepomis gibbosus</i>	7779886	20	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
200	26906	<i>Lepomis macrochirus</i>	7646857	5.37	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7	25		2033
200	28728	<i>Lepomis macrochirus</i>	7733020	2.03	LC0/MOR//	56 g, 147 mm	LAB/S/S	4	46	7.95	24.4		8469
200	28735	<i>Lepomis macrochirus</i>	7733020	3.2	LC50/MOR/INC/	50.1 mm (28-68 mm)	LAB/F/C	4	40.8	7.2	20.75		6316
200	28742	<i>Lepomis macrochirus</i>	7733020	5.46	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7	25		2033
200	28743	<i>Lepomis macrochirus</i>	7733020	4.85	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7	25		2033
200	28744	<i>Lepomis macrochirus</i>	7733020	5.82	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7	25		2033
200	28751	<i>Lepomis macrochirus</i>	7733020	3.6	LC50/MOR//	49 mm	LAB/F/S	4	40.2	7.15	22	conductivity 106-136 umhos/cm	586
200	28752	<i>Lepomis macrochirus</i>	7733020	3	LC50/MOR//	49 mm	LAB/F/S	4	40.2	7.15	22	conductivity 106-136 umhos/cm	586
200	29566	<i>Lepomis macrochirus</i>	7733020	4.16	/PHY/CHG/MULT	86.4 g, 13.4 cm sl	LAB/F/C	4	51	7.8	19.7	with or without electrode in fish	17884
200	29812	<i>Lepomis macrochirus</i>	7733020	2.94	/BEH//	11.5 g, 9.7 cm	LAB/F/S	4	51	7.8	19.7		8322
200	30149	<i>Lepomis macrochirus</i>	7779900	0.5	LC0/MOR//	56 g, 147 mm	LAB/S/I	4	46	6	22.5		8469
200	30150	<i>Lepomis macrochirus</i>	7779900	0.5	LC0/MOR//	56 g, 147 mm	LAB/S/I	4	46	8	22.5		8469
200	28824	<i>Melanotaenia nigrans</i>	7733020	13.9	LC50/MOR/INC/	0.56 g, 37.2 mm	LAB/S/C	4	22	6.8	27	buffalo billabong water	4126
200	28825	<i>Melanotaenia nigrans</i>	7733020	6.8	LC50/MOR/INC/	0.74 g, 39.9 mm	LAB/S/C	4	7	6.7	27	buffalo billabong water	4126
200	28826	<i>Melanotaenia nigrans</i>	7733020	5.98	LC50/MOR/INC/	0.74 g, 39.9 mm	LAB/S/C	4	7	6.7	27	buffalo billabong water	4126

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
200	28827	<i>Melanotaenia splendida inornat</i>	7733020	6.2	LC50/MOR/INC/	0.51 g, 34.8 mm	LAB/S/C	4	12	7	27	buffalo billabong water	4126
200	28828	<i>Melanotaenia splendida inornat</i>	7733020	6.14	LC50/MOR/INC/	0.51 g, 34.8 mm	LAB/S/C	4	12	7	27	buffalo billabong water	4126
200	28829	<i>Melanotaenia splendida inornat</i>	7733020	4.8	LC50/MOR/INC/	1.70 g, 48.1 mm	LAB/S/C	4	7	6.6	27	buffalo billabong water	4126
200	28830	<i>Melanotaenia splendida inornat</i>	7733020	4.73	LC50/MOR/INC/	1.70 g, 48.1 mm	LAB/S/C	4	7	6.6	27	buffalo billabong water	4126
200	26396	<i>Morone americana</i>	7440666	14.4	LC50/MOR//		LAB/S/I	4	55	8	28		2002
200	30048	<i>Morone americana</i>	7779886	14.3	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
200	26405	<i>Morone saxatilis</i>	7440666	6.8	LC50/MOR//		LAB/S/I	4	55	8	28		2002
200	30051	<i>Morone saxatilis</i>	7779886	6.7	LC50/MOR//	<=20 cm	LAB/S/I	4	53	7.8	17		2001
200	29831	<i>Notemigonus crysoleucas</i>	7733020	7.5	/BEH//	3.4 g, 7.9 cm	LAB/S/S	4	51	7.4	22.5		8322
200	26995	<i>Oncorhynchus mykiss</i>	7646857	0.066	LC50/MOR//	2.36-3.01 g	LAB/F/S	4	9.2	6.96	15.75		2725
200	26996	<i>Oncorhynchus mykiss</i>	7646857	0.066	LC50/MOR//	2.36-3.01 g	LAB/F/S	7	9.2	6.96	15.75		2725
200	27820	<i>Oncorhynchus mykiss</i>	7646857	0.1	/MOR//		LAB//S	4	46	6.6	16		5302
200	27821	<i>Oncorhynchus mykiss</i>	7646857	0.01	/MOR//		LAB//S	4	46	6.6	16		5302
200	27829	<i>Oncorhynchus mykiss</i>	7646857	0.141	/PHY//	smolt, 122.4 g, 24.0 cm fork length	LAB/F/S	4	26	7	17.2		10439
200	28945	<i>Oncorhynchus mykiss</i>	7733020	0.162	LC50/MOR/INC/		LAB/F/C	4	20	7.2	18		46946
200	29616	<i>Oncorhynchus mykiss</i>	7733020	0.092	/MOR/INC/		LAB/F/C	30	20	7.2	18		46946
200	29941	<i>Oncorhynchus mykiss</i>	7733020	0.092	/GRO/DEC/		LAB/F/C	30	20	7.2	18		46946
200	29942	<i>Oncorhynchus mykiss</i>	7733020	0.092	/PHY/CHG/		LAB/F/C	30	20	7.2	18		46946
200	29943	<i>Oncorhynchus mykiss</i>	7733020	0.092	/BEH/NEF/		LAB/F/C	30	20	7.2	18		46946
200	29944	<i>Oncorhynchus mykiss</i>	7733020	0.092	/BCM/NEF/		LAB/F/C	17.5	20	7.2	18		46946
200	29945	<i>Oncorhynchus mykiss</i>	7733020	0.092	/BCM/DEC/		LAB/F/C	17.5	20	7.2	18		46946
200	26192	<i>Pimephales promelas</i>	557346	0.88	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7	25		2033

mg total metal/L, hardness in mg CaCO3/L

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SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
200	27509	<i>Pimephales promelas</i>	7646857	0.188	LC50/ITX//	< 24 h	LAB/S/S	4	36	7.4	25	water parameters rpt, naugatuck river, station 1, aug 31	2124
200	27510	<i>Pimephales promelas</i>	7646857	0.551	LC50/ITX//	< 24 h	LAB/S/S	4	52	7.2	25	water parameters rpt, lake superior	2124
200	27520	<i>Pimephales promelas</i>	7646857	0.393	LC50/MOR//	< 24 h	LAB/S/S	4	36	7.4	25	water parameters rpt, naugatuck river, station 1, aug 31	2124
200	27521	<i>Pimephales promelas</i>	7646857	0.551	LC50/MOR//	< 24 h	LAB/S/S	4	52	7.2	25	water parameters rpt, lake superior	2124
200	27535	<i>Pimephales promelas</i>	7646857	0.01	LT50/MOR//		LAB//S	3.75	46	6.5	24		5302
200	27869	<i>Pimephales promelas</i>	7646857	0.1	/MOR//		LAB//S	4	46	6.5	18		5302
200	27870	<i>Pimephales promelas</i>	7646857	0.01	/MOR//		LAB//S	4	46	6.5	18		5302
200	29261	<i>Pimephales promelas</i>	7733020	0.6	LC50/MOR//	4 wk	LAB/F/S	4	46	7.5	25		2116
200	29262	<i>Pimephales promelas</i>	7733020	3.1	LC50/MOR//	1-2 g, 5.0-6.5 cm	LAB/S/S	4	45	7	21		2114
200	29282	<i>Pimephales promelas</i>	7733020	0.96	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7	25		2033
200	29283	<i>Pimephales promelas</i>	7733020	0.78	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	20	7	25		2033
200	29296	<i>Pimephales promelas</i>	7733020	13.8	LC50/MOR//	1-2 g	LAB/F/S	4	54	6.1	25		2118
200	29301	<i>Pimephales promelas</i>	7733020	13.7	LC50/MOR//	1-2 g	LAB/F/S	4	54	7.15	25		2118
200	29307	<i>Pimephales promelas</i>	7733020	4.7	LC50/MOR//	1-2 g	LAB/F/S	4	54	8	25		2118
200	29308	<i>Pimephales promelas</i>	7733020	5.1	LC50/MOR//	1-2 g	LAB/F/S	4	49	7.6	25		2118
200	27871	<i>Poecilia reticulata</i>	7646857	0.1	/MOR//	1 mo, 1.1 cm	LAB/F/I	6.25	19.7	7.25	24.25	conductance, tds, co3, hco3, po4, so4, al, ca, fe, mg, mn,	902
200	29366	<i>Poecilia reticulata</i>	7733020	1.27	LC50/MOR//	6 mo, 0.1-0.2 g, 1.9-2.5 cm	LAB/S/I	4	20	7	25		2033

mg total metal/L, hardness in mg CaCO3/L

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SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
201	Vertebrates exposed to zinc in soft water at >15degC over 1-3 days exposure												
201	26241	<i>Anguilla rostrata</i>	7440666	20.1	LC50/MOR//		LAB/S/I	2	55	8	28		2002
201	30028	<i>Anguilla rostrata</i>	7779886	20	LC50/MOR//		LAB/S/I	2	53	7.8	17		2001
201	28044	<i>Carassius auratus</i>	7733020	6.44	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7	25		2033
201	29694	<i>Carassius auratus</i>	7733020	7.5	/BEH//	5.0 g, 8.2 cm	LAB/S/S	2	51	7.4	22.5		8322
201	26294	<i>Cyprinus carpio</i>	7440666	9.2	LC50/MOR//		LAB/S/I	2	55	8	28		2002
201	30032	<i>Cyprinus carpio</i>	7779886	9.3	LC50/MOR//	<=20 cm	LAB/S/I	2	53	7.8	17		2001
201	28717	<i>Lepidocephalichthyes guntea</i>	7733020	20.3	LC50/MOR/INC/	5.07 cm	LAB/R/	2	30	7.6	24		243
201	28718	<i>Lepidocephalichthyes guntea</i>	7733020	18.8	LC50/MOR/INC/	5.07 cm	LAB/R/	3	30	7.6	24		243
201	28721	<i>Lepidocephalichthyes guntea</i>	7733020	27.3	LC50/MOR/INC/	5.07 cm	LAB/R/	2	30	7.6	24		243
201	28722	<i>Lepidocephalichthyes guntea</i>	7733020	25.3	LC50/MOR/INC/	5.07 cm	LAB/R/	3	30	7.6	24		243
201	26386	<i>Lepomis gibbosus</i>	7440666	21.9	LC50/MOR//		LAB/S/I	2	55	8	28		2002
201	30044	<i>Lepomis gibbosus</i>	7779886	21.8	LC50/MOR//	<=20 cm	LAB/S/I	2	53	7.8	17		2001
201	26905	<i>Lepomis macrochirus</i>	7646857	7.24	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7	25		2033
201	28739	<i>Lepomis macrochirus</i>	7733020	5.46	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7	25		2033
201	28740	<i>Lepomis macrochirus</i>	7733020	5.11	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7	25		2033
201	28741	<i>Lepomis macrochirus</i>	7733020	5.82	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7	25		2033
201	29821	<i>Lepomis macrochirus</i>	7733020	8.7	/MOR/INC/	86.4 g, 13.4 cm sl	LAB/F/C	1.81	51	7.8	19.7		17884
201	29825	<i>Lepomis macrochirus</i>	7733020	1.75	/PHY/INC/	57.8 (49-74) mm, 6.8 (3.2-9.6) g	LAB/F/C	2.1	49	7.15	22.5		6316
201	26395	<i>Morone americana</i>	7440666	10.1	LC50/MOR//		LAB/S/I	2	55	8	28		2002
201	30047	<i>Morone americana</i>	7779886	10.2	LC50/MOR//	<=20 cm	LAB/S/I	2	53	7.8	17		2001
201	26404	<i>Morone saxatilis</i>	7440666	10	LC50/MOR//		LAB/S/I	2	55	8	28		2002
201	30050	<i>Morone saxatilis</i>	7779886	10	LC50/MOR//	<=20 cm	LAB/S/I	2	53	7.8	17		2001
201	27435	<i>Oncorhynchus mykiss</i>	7646857	1	LT50/MOR//		LAB/S	1.07	46	6.6	16		5302
201	28947	<i>Oncorhynchus mykiss</i>	7733020	0.91	LC50/MOR//	fingerling	LAB/F/S	2	44	6.9	17.7		8006
201	26191	<i>Pimephales promelas</i>	557346	0.88	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7	25		2033

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
201	27530	<i>Pimephales promelas</i>	7646857	10	LT50/MOR//		LAB//S	1.64	46	6.5	18		5302
201	27531	<i>Pimephales promelas</i>	7646857	1	LT50/MOR//		LAB//S	2.23	46	6.5	18		5302
201	27533	<i>Pimephales promelas</i>	7646857	1	LT50/MOR//		LAB//S	2.42	46	6.5	24		5302
201	27534	<i>Pimephales promelas</i>	7646857	0.1	LT50/MOR//		LAB//S	2.49	46	6.5	24		5302
201	29280	<i>Pimephales promelas</i>	7733020	0.96	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7	25		2033
201	29281	<i>Pimephales promelas</i>	7733020	0.78	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	20	7	25		2033
201	29365	<i>Poecilia reticulata</i>	7733020	1.96	LC50/MOR//	6 mo, 0.1-0.2 g, 1.9-2.5 cm	LAB/S/I	2	20	7	25		2033
201	29409	<i>Salmo salar</i>	7733020	0.41	LT50/MOR//	juvenile, 9.2 (7.2-10.9) cm	LAB/F/S	2.42	14	7.2	17		2069
202	Vertebrates exposed to zinc in soft water at >15degC over <=1 day exposure												
202	26240	<i>Anguilla rostrata</i>	7440666	21.4	LC50/MOR//		LAB/S/I	1	55	8	28		2002
202	30027	<i>Anguilla rostrata</i>	7779886	21.6	LC50/MOR//		LAB/S/I	1	53	7.8	17		2001
202	28042	<i>Carassius auratus</i>	7733020	24	LC50/MOR//	1.93(0.6-5.8) g, 4.59(3.1-6.6) mm	LAB/S/I	1	36	7.1	30		518
202	28043	<i>Carassius auratus</i>	7733020	9.07	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7	25		2033
202	26293	<i>Cyprinus carpio</i>	7440666	14.4	LC50/MOR//		LAB/S/I	1	55	8	28		2002
202	28239	<i>Cyprinus carpio</i>	7733020	36.4	LC50/MOR//	1 yr, yearling, 30 g, 10-12 cm	LAB/S/I	1	1.5	6.5	17.75		8459
202	30031	<i>Cyprinus carpio</i>	7779886	14.3	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17		2001
202	28716	<i>Lepidocephalichthyes guntea</i>	7733020	21.7	LC50/MOR/INC/	5.07 cm	LAB/S/	1	30	7.6	24		243
202	28720	<i>Lepidocephalichthyes guntea</i>	7733020	32.7	LC50/MOR/INC/	5.07 cm	LAB/S/	1	30	7.6	24		243
202	26385	<i>Lepomis gibbosus</i>	7440666	25.1	LC50/MOR//		LAB/S/I	1	55	8	28		2002
202	30043	<i>Lepomis gibbosus</i>	7779886	25.2	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17		2001
202	26904	<i>Lepomis macrochirus</i>	7646857	7.24	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7	25		2033
202	28730	<i>Lepomis macrochirus</i>	7733020	17.75	LC100/MOR//	56 g, 147 mm	LAB/S/S	1	46	6.3	21.8		8469
202	28734	<i>Lepomis macrochirus</i>	7733020	8.85	LC50/MOR//	0.64(0.1-3.6) g, 3.43(2.2-5.8) mm	LAB/S/I	1	36	7.1	30		518
202	28736	<i>Lepomis macrochirus</i>	7733020	6.75	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7	25		2033

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
202	28737	<i>Lepomis macrochirus</i>	7733020	5.75	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7	25		2033
202	28738	<i>Lepomis macrochirus</i>	7733020	6.95	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7	25		2033
202	29813	<i>Lepomis macrochirus</i>	7733020	10	/BEH//		LAB/F/S	0.27	51	7.8	19.7		8322
202	26394	<i>Morone americana</i>	7440666	13.5	LC50/MOR//		LAB/S/I	1	55	8	28		2002
202	30046	<i>Morone americana</i>	7779886	13.6	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17		2001
202	26403	<i>Morone saxatilis</i>	7440666	11.3	LC50/MOR//		LAB/S/I	1	55	8	28		2002
202	30049	<i>Morone saxatilis</i>	7779886	11.2	LC50/MOR//	<=20 cm	LAB/S/I	1	53	7.8	17		2001
202	28872	<i>Notemigonus crysoleucas</i>	7733020	8.33	LC50/MOR//	2.56(2.6-4.9) g, 6.42(3.2-7.6) mm	LAB/S/I	1	36	7.1	30		518
202	26409	<i>Nothobranchius guentheri</i>	7440666	5.8	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26410	<i>Nothobranchius guentheri</i>	7440666	6	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26411	<i>Nothobranchius guentheri</i>	7440666	6.4	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26412	<i>Nothobranchius guentheri</i>	7440666	8	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26413	<i>Nothobranchius guentheri</i>	7440666	7.8	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26414	<i>Nothobranchius guentheri</i>	7440666	8	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26415	<i>Nothobranchius guentheri</i>	7440666	8.2	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26416	<i>Nothobranchius guentheri</i>	7440666	7.6	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26417	<i>Nothobranchius guentheri</i>	7440666	6.8	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26418	<i>Nothobranchius guentheri</i>	7440666	6	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26419	<i>Nothobranchius guentheri</i>	7440666	8.2	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26420	<i>Nothobranchius guentheri</i>	7440666	8	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25	30 d storage	20487
202	26421	<i>Nothobranchius guentheri</i>	7440666	7.5	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25	60 d storage	20487
202	26422	<i>Nothobranchius guentheri</i>	7440666	4.6	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25	90 d storage	20487

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
202	26423	<i>Nothobranchius guentheri</i>	7440666	8.6	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26424	<i>Nothobranchius guentheri</i>	7440666	7.7	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26425	<i>Nothobranchius guentheri</i>	7440666	9.1	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26426	<i>Nothobranchius guentheri</i>	7440666	15.1	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26427	<i>Nothobranchius guentheri</i>	7440666	10.8	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26428	<i>Nothobranchius guentheri</i>	7440666	13.7	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26429	<i>Nothobranchius guentheri</i>	7440666	14.1	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26430	<i>Nothobranchius guentheri</i>	7440666	10.2	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26431	<i>Nothobranchius guentheri</i>	7440666	11.7	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26432	<i>Nothobranchius guentheri</i>	7440666	7.1	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26433	<i>Nothobranchius guentheri</i>	7440666	9	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25		20487
202	26434	<i>Nothobranchius guentheri</i>	7440666	16.9	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25	30 d storage	20487
202	26435	<i>Nothobranchius guentheri</i>	7440666	9.8	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25	60 d storage	20487
202	26436	<i>Nothobranchius guentheri</i>	7440666	9	LC50/MOR/INC/	24 h post-hatch, fry	LAB/S/C	1	42	7.785	25	90 d storage	20487
202	27434	<i>Oncorhynchus mykiss</i>	7646857	10	LT50/MOR//		LAB//S	0.18	46	6.6	16		5302
202	28896	<i>Oncorhynchus mykiss</i>	7733020	0.0043	EC50/AVO/INC/	6.5-12.0 cm	LAB/F/	0.01	14	7.2	17	background zn 3-13 ug	3824
202	28911	<i>Oncorhynchus mykiss</i>	7733020	2.1	LC50/MOR//	4.42(1.1-11.8) g,	LAB/S/I	1	36	7.1	18		518
202	27866	<i>Oryzias latipes</i>	7646857	5.05	/MOR//	fry, 8 d	LAB/S/S	1	10.5	6.9	25		12151
202	26190	<i>Pimephales promelas</i>	557346	1.03	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7	25		2033
202	27532	<i>Pimephales promelas</i>	7646857	10	LT50/MOR//		LAB//S	0.39	46	6.5	24		5302

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
202	29278	<i>Pimephales promelas</i>	7733020	0.96	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7	25		2033
202	29279	<i>Pimephales promelas</i>	7733020	0.88	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	20	7	25		2033
202	29364	<i>Poecilia reticulata</i>	7733020	2.9	LC50/MOR//	6 mo, 0.1-0.2 g, 1.9-2.5 cm	LAB/S/I	1	20	7	25		2033
202	29395	<i>Salmo salar</i>	7733020	0.0023	EC50/AVO/INC/	9.7-15.3 cm	LAB/F/C	0.01	18	7.5	18.2		8102
202	29410	<i>Salmo salar</i>	7733020	0.65	LT50/MOR//	juvenile, 9.2 (7.2-10.9) cm	LAB/F/S	0.65	14	7.2	17		2069
202	29411	<i>Salmo salar</i>	7733020	1.06	LT50/MOR//	juvenile, 9.2 (7.2-10.9) cm	LAB/F/S	0.39	14	7.2	17		2069
202	29412	<i>Salmo salar</i>	7733020	4.19	LT50/MOR//	juvenile, 9.2 (7.2-10.9) cm	LAB/F/S	0.11	14	7.2	17		2069
203	Vertebrates exposed to zinc in very hard water at >15degC over 3-30 days exposure												
203	27914	<i>Agosia chrysogaster</i>	7733020	0.79	LC50/MOR//	juvenile, 4.3 cm, 0.64 g	LAB/R/S	4	217	7.8	18.9	ca, mg, na, fe, cu, mn, zn, so4, suspended solids, and con-	2000
203	28015	<i>Barbus conchoniis</i>	7733020	7.56	LC50/MOR//	5 cm	LAB/S/S	4	310	7.5	16		567
203	28016	<i>Barbus sophore</i>	7733020	10	LC50/MOR//	1.831 g, 51 mm	LAB/R/S	4	315	7.4	25.5	conductivity, na, k, ca, silica, inorganic solid, organic	5354
203	28023	<i>Barbus sophore</i>	7733020	31.24	LC50/MOR//		LAB/R/S	4	260	7.4	20.5		15138
203	26738	<i>Carassius auratus</i>	7646857	2.54	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
203	28106	<i>Channa marulius</i>	7733020	25.61	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/R/S	4	270	7.35	26		10721
203	28107	<i>Channa marulius</i>	7733020	21.09	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/R/S	10	270	7.35	26		10721
203	26624	<i>Channa punctata</i>	7440666	23.07	/BCM//	10-15 cm, 30-35 g	LAB/R/S	4	280	7.5	27		8304
203	26625	<i>Channa punctata</i>	7440666	17.54	/BCM//	10-15 cm, 30-35 g	LAB/R/S	30	280	7.5	27		8304
203	28112	<i>Channa punctata</i>	7733020	29.88	LC50/MOR//		LAB/R/S	4	260	7.4	20.5	see paper	15138
203	28121	<i>Channa punctata</i>	7733020	0.03	LC50/MOR//	1.892 g, 56.7 mm	LAB/R/S	4	260	7.4	20.5	conductivity 980(800-1050) uscm, sio2, na, k, ca, tds	10722
203	28126	<i>Channa punctata</i>	7733020	29.88	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	4	260	7.4	20.5	conductivity 980(800-1050) umhoscm, tds	11083
203	28131	<i>Channa punctata</i>	7733020	24.5	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	4	260	7.35	25.15	silicates, tds, conductivity	11847

mg total metal/L, hardness in mg CaCO₃/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
203	28136	<i>Channa punctata</i>	7733020	29.88	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	4	260	7.4	18	silicates, tds, conductivity	11847
203	28141	<i>Channa punctata</i>	7733020	20.84	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	4	260	7.3	30	silicates, tds, conductivity	11847
203	28146	<i>Channa punctata</i>	7733020	25.61	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	4	260	6	18	silicates, tds, conductivity	11847
203	28157	<i>Channa punctata</i>	7733020	0.01	LT50/MOR//	1.892 g, 56.7 mm	LAB/R/S	4	260	7.4	20.5	conductivity 980(800-1050) uscm, sio ₂ , na, k, ca, tds	10722
203	29735	<i>Cyprinus carpio</i>	7733020	6250	/FDB//	28.5 (27.1-30.6) g	LAB/D/S	22	296	8	19.5		3948
203	26300	<i>Danio rerio</i>	7440666	20	LOEC/MOR/INC/SIG	embryo, 4 cell stage, 1 h after	LAB/C	6	308.8	7.6	26.5		19687
203	26303	<i>Danio rerio</i>	7440666	20	NOEC/MOR/INC/NOSIG	embryo, 4 cell stage, 1 h after	LAB/C	6	308.8	7.6	26.5		19687
203	26889	<i>Gastrophryne carolinensis</i>	7646857	0.01	LC50/MOR/INC/	eggs	LAB/R/C	7	195	7.4	22		5305
203	26892	<i>Gila elegans</i>	7646857	4.8	LC50/MOR/INC/	swimup fry, 11-18 d	LAB/S/C	4	196	7.75	25		15346
203	26893	<i>Gila elegans</i>	7646857	5.8	LC50/MOR/INC/	1.1 g, juvenile, 138-145 d	LAB/S/C	4	196	7.75	25		15346
203	26894	<i>Gila elegans</i>	7646857	23	LC50/MOR/INC/	2.6 g, juvenile, 220-234 d	LAB/S/C	4	196	7.75	25		15346
203	28641	<i>Heteropneustes fossilis</i>	7733020	60.3	LC50/MOR/INC/		LAB/R/	4	250	7.45	24.5		16939
203	28727	<i>Lepidocephalichthys guntea</i>	7733020	48.3	LC50/MOR/INC/	5.07 cm	LAB/R/	4	260	7.6	24		243
203	28750	<i>Lepomis macrochirus</i>	7733020	6.44	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	360	7.75	25		2033
203	28755	<i>Lepomis macrochirus</i>	7733020	7.2	LC50/MOR//	2.0-3.0 g	LAB/F/S	20	370	7.8	25		2440
203	28756	<i>Lepomis macrochirus</i>	7733020	7.5	LC50/MOR//	2.0-3.0 g	LAB/F/S	20	370	7.8	25		2440
203	28757	<i>Lepomis macrochirus</i>	7733020	10.7	LC50/MOR//	2.0-3.0 g	LAB/F/S	20	370	7.8	25		2440
203	28758	<i>Lepomis macrochirus</i>	7733020	10.5	LC50/MOR//	2.0-3.0 g	LAB/F/S	20	370	7.8	25		2440
203	28759	<i>Lepomis macrochirus</i>	7733020	12	LC50/MOR//	2.0-3.0 g	LAB/F/S	20	370	7.8	25		2440
203	28760	<i>Lepomis macrochirus</i>	7733020	10.7	LC50/MOR//	2.0-3.0 g	LAB/F/S	20	370	7.8	25		2440

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
203	27436	<i>Oncorhynchus mykiss</i>	7646857	3.5	LT50/MOR/DEC/	3-15 mo	LAB/R/C	6.94	320	7.7	17.5		14412
203	27437	<i>Oncorhynchus mykiss</i>	7646857	3.5	LT50/MOR/DEC/	3-15 mo	LAB/R/C	6.94	320	7.7	17.5		14412
203	27438	<i>Oncorhynchus mykiss</i>	7646857	3.5	LT50/MOR/DEC/	3-15 mo	LAB/R/C	6.94	320	7.7	17.5		14412
203	28964	<i>Oncorhynchus mykiss</i>	7733020	4.76	LC50/MOR//	15-17.5 cm	LAB/F/S	4.21	504	7.8	15.5		2111
203	26511	<i>Pimephales promelas</i>	7440666	2.66	LC50/MOR//	larvae	LAB/S/S	4	394	7.9	24	water parameters rpt, 100 yds above effluent discharge,	3318
203	26512	<i>Pimephales promelas</i>	7440666	2.16	LC50/MOR//	larvae	LAB/R/S	4	362	7.7	24	water parameters rpt, 100 yds above effluent discharge,	3318
203	26690	<i>Pimephales promelas</i>	7440666	0.01	/MOR//	larvae	LAB/R/S	7	378	7.8	24	water parameters rpt, 100 yds above effluent discharge,	3318
203	26691	<i>Pimephales promelas</i>	7440666	0.01	/GRO//	larvae	LAB/R/S	7	378	7.8	24	water parameters rpt, 100 yds above effluent discharge,	3318
203	27512	<i>Pimephales promelas</i>	7646857	6.09	LC50/MOR//	adult, 40 mm	LAB/S/I	4	250	7.5	21.5	conductivity 500-553 umhos/cm	10551
203	27514	<i>Pimephales promelas</i>	7646857	7.45	LC50/MOR//	adult, 40 mm	LAB/S/I	4	250	7.5	21.5	conductivity 500-553 umhos/cm	10551
203	27527	<i>Pimephales promelas</i>	7646857	8.49	LC50/MOR/INC/	40 mm	LAB/S/C	4	200	7.4	22	newton hatchery fish	10237
203	27529	<i>Pimephales promelas</i>	7646857	5.96	LC50/MOR/INC/	40 mm	LAB/S/C	4	200	7.4	22	flyash pond fish	10237
203	29215	<i>Pimephales promelas</i>	7733020	12	LC50/MOR//	2-3 g, immature	LAB/S/I	4	200	7.55	23	conductivity, ca, mg, na, k, so4, cl, po4	5077
203	29216	<i>Pimephales promelas</i>	7733020	13	LC50/MOR//	2-3 g, immature	LAB/S/I	4	200	7.55	23	conductivity, ca, mg, na, k, so4, cl, po4	5077
203	29217	<i>Pimephales promelas</i>	7733020	8.4	LC50/MOR//	2-3 g, immature	LAB/F/I	4	200	7.65	23	conductivity, ca, mg, na, k, so4, cl, po4	5077
203	29218	<i>Pimephales promelas</i>	7733020	10	LC50/MOR//	2-3 g, immature	LAB/F/I	4	200	7.65	23	conductivity, ca, mg, na, k, so4, cl, po4	5077

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
203	29220	<i>Pimephales promelas</i>	7733020	2.61	LC50/MOR//	juvenile, 8 wk, 19 mm, 0.079 g	LAB/F/I	4	220	7.8	25		2125
203	29227	<i>Pimephales promelas</i>	7733020	15.4	LC50/MOR//	3 mo, 0.082 g	LAB/R/S	4	335	7.805	19.7		3080
203	29242	<i>Pimephales promelas</i>	7733020	1.62	LC50/MOR//	egg, <1 d	LAB/F/S	12	186	7.55	20		2109
203	29243	<i>Pimephales promelas</i>	7733020	1.78	LC50/MOR//	egg, <1 d	LAB/F/S	12	186	7.55	20		2109
203	29244	<i>Pimephales promelas</i>	7733020	1.61	LC50/MOR//	egg, <1 d	LAB/F/S	12	186	7.55	20		2109
203	29245	<i>Pimephales promelas</i>	7733020	1.48	LC50/MOR//	egg, <1 d	LAB/F/S	12	186	7.55	20		2109
203	29246	<i>Pimephales promelas</i>	7733020	1.57	LC50/MOR//	egg, <1 d	LAB/F/S	12	186	7.55	20		2109
203	29251	<i>Pimephales promelas</i>	7733020	1.85	LC50/MOR//	egg, <1 d	LAB/F/S	4	186	7.55	20		2109
203	29252	<i>Pimephales promelas</i>	7733020	1.82	LC50/MOR//	egg, <1 d	LAB/F/S	4	186	7.55	20		2109
203	29253	<i>Pimephales promelas</i>	7733020	1.76	LC50/MOR//	egg, <1 d	LAB/F/S	7	186	7.55	20		2109
203	29254	<i>Pimephales promelas</i>	7733020	1.63	LC50/MOR//	egg, <1 d	LAB/F/S	7	186	7.55	20		2109
203	29255	<i>Pimephales promelas</i>	7733020	1.69	LC50/MOR//	egg, <1 d	LAB/F/S	12	186	7.55	20		2109
203	29256	<i>Pimephales promelas</i>	7733020	1.57	LC50/MOR//	egg, <1 d	LAB/F/S	12	186	7.55	20		2109
203	29259	<i>Pimephales promelas</i>	7733020	0.87	LC50/MOR//	fry, <1 d	LAB/F/S	4	186	7.55	20		2109
203	29260	<i>Pimephales promelas</i>	7733020	0.87	LC50/MOR//	fry, <1 d	LAB/F/S	7	186	7.55	20		2109
203	29263	<i>Pimephales promelas</i>	7733020	0.78	LC50/MOR//	<=24 h	LAB/I	4	290	6.31	25		7289
203	29264	<i>Pimephales promelas</i>	7733020	0.33	LC50/MOR//	<=24 h	LAB/I	4	290	7	25		7289
203	29265	<i>Pimephales promelas</i>	7733020	0.5	LC50/MOR//	<=24 h	LAB/I	4	290	7.945	25		7289
203	29291	<i>Pimephales promelas</i>	7733020	33.4	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	4	360	7.75	25		2033
203	29299	<i>Pimephales promelas</i>	7733020	29	LC50/MOR//	1-2 g	LAB/F/S	4	212	6.1	25		2118

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
203	29300	<i>Pimephales promelas</i>	7733020	35.5	LC50/MOR//	1-2 g	LAB/F/S	4	208	6.1	25		2118
203	29305	<i>Pimephales promelas</i>	7733020	19	LC50/MOR//	1-2 g	LAB/F/S	4	186	6.75	25		2118
203	29306	<i>Pimephales promelas</i>	7733020	13.6	LC50/MOR//	1-2 g	LAB/F/S	4	195	7.2	25		2118
203	29311	<i>Pimephales promelas</i>	7733020	8.2	LC50/MOR//	1-2 g	LAB/F/S	4	193	7.75	25		2118
203	29312	<i>Pimephales promelas</i>	7733020	15.5	LC50/MOR//	1-2 g	LAB/F/S	4	216	7.7	25		2118
203	29640	<i>Pimephales promelas</i>	7733020	2.8	NR-LETH/MOR//	eggs	LAB/F/U	20	203	7.7	20	conductivity, ca, mg, na, k, so4, cl, po4	5077
203	29961	<i>Pimephales promelas</i>	7733020	1.3	/MOR//	eggs	LAB/F/U	20	203	7.7	20	conductivity, ca, mg, na, k, so4, cl, po4	5077
203	29962	<i>Pimephales promelas</i>	7733020	0.76	/MOR//	larvae, 1 d	LAB/F/U	30	220	7.8	25		2125
203	29359	<i>Poecilia reticulata</i>	7733020	54.95	LC50/MOR//		LAB/R/S	4	260	7.4	20.5	see paper	15138
203	27566	<i>Ptychocheilus lucius</i>	7646857	1.7	LC50/MOR/INC/	swimup fry, 17-31 d	LAB/S/C	4	196	7.75	25		15346
203	27567	<i>Ptychocheilus lucius</i>	7646857	4.3	LC50/MOR/INC/	0.4-1.1 g, juvenile, 99-115 d	LAB/S/C	4	196	7.75	25		15346
203	27568	<i>Ptychocheilus lucius</i>	7646857	12	LC50/MOR/INC/	1.7 g, juvenile, 193-207 d	LAB/S/C	4	196	7.75	25		15346
203	29392	<i>Rasbora daniconius neilgeriens</i>	7733020	35.81	LC50/MOR/INC/		LAB/R/C	4	260	7.4	20.5		15138
203	29422	<i>Salvelinus fontinalis</i>	7733020	1.55	LC50/MOR//	egg, <1 d	LAB/F/S	12	186	7.55	20		2109
203	29423	<i>Salvelinus fontinalis</i>	7733020	1.57	LC50/MOR//	egg, <1 d	LAB/F/S	12	186	7.55	20		2109
203	29424	<i>Salvelinus fontinalis</i>	7733020	1.57	LC50/MOR//	egg, <1 d	LAB/F/S	12	186	7.55	20		2109
203	29492	<i>Xenopus laevis</i>	7733020	22.5	LC50/MOR//	tadpole, 2-5 cm, stage 54-58	LAB/S/S	3.75	296	7	21.5		6074
203	27670	<i>Xyrauchen texanus</i>	7646857	4.1	LC50/MOR/INC/	swimup fry, 10-17 d	LAB/S/C	4	196	7.75	25		15346
203	27671	<i>Xyrauchen texanus</i>	7646857	6.5	LC50/MOR/INC/	0.9 g, juvenile 133-139 d	LAB/S/C	4	196	7.75	25		15346
203	27672	<i>Xyrauchen texanus</i>	7646857	16	LC50/MOR/INC/	2.0 g, juvenile, 176-186 d	LAB/S/C	4	196	7.75	25		15346
204		Vertebrates exposed to zinc in very hard water at >15degC over 1-3 days exposure											
204	28013	<i>Barbus conchoni</i>	7733020	8.985	LC50/MOR//	5 cm	LAB/S/S	2	310	7.5	16		567
204	28014	<i>Barbus conchoni</i>	7733020	8.241	LC50/MOR//	5 cm	LAB/S/S	3	310	7.5	16		567

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/ Trend/Significant)*	Test Organism	Design (Location/E xposure/Co ntrol Type)*	Days	Hardness	pH	°C	Design Comment	Citation
204	28018	<i>Barbus sophore</i>	7733020	13.2	LC50/MOR//	1.831 g, 51 mm	LAB/R/S	2	315	7.4	25.5	conductivity, na, k, ca, silica, total solid, inorganic sol-	5354
204	28021	<i>Barbus sophore</i>	7733020	37.82	LC50/MOR//		LAB/R/S	2	260	7.4	20.5		15138
204	28022	<i>Barbus sophore</i>	7733020	33.01	LC50/MOR//		LAB/R/S	3	260	7.4	20.5		15138
204	28024	<i>Barbus sophore</i>	7733020	49	LT50/MOR//	48-70 mm, 1.50-2.95 g	LAB/R/S	1.36	210	7.4	19.5	conductivity and total solids	11082
204	28025	<i>Barbus sophore</i>	7733020	37	LT50/MOR//	48-70 mm, 1.50-2.95 g	LAB/R/S	2.75	210	7.4	19.5	conductivity and total solids	11082
204	28105	<i>Channa marulius</i>	7733020	27.84	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/R/S	3	270	7.35	26		10721
204	28110	<i>Channa punctata</i>	7733020	30.68	LC50/MOR//		LAB/R/S	2	260	7.4	20.5	see paper	15138
204	28111	<i>Channa punctata</i>	7733020	29.88	LC50/MOR//		LAB/R/S	3	260	7.4	20.5	see paper	15138
204	28119	<i>Channa punctata</i>	7733020	0.0307	LC50/MOR//	1.892 g, 56.7 mm	LAB/R/S	2	260	7.4	20.5	conductivity 980(800- 1050) uscm, sio2, na, k, ca, tds	10722
204	28120	<i>Channa punctata</i>	7733020	0.0299	LC50/MOR//	1.892 g, 56.7 mm	LAB/R/S	3	260	7.4	20.5	conductivity 980(800- 1050) uscm, sio2, na, k, ca, tds	10722
204	28124	<i>Channa punctata</i>	7733020	30.7	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	2	260	7.4	20.5	conductivity 980(800- 1050) umhoscm, tds	11083
204	28125	<i>Channa punctata</i>	7733020	29.88	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	3	260	7.4	20.5	conductivity 980(800- 1050) umhoscm, tds	11083
204	28129	<i>Channa punctata</i>	7733020	35.29	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	2	260	7.35	25.15	silicates, tds, conductivity	11847
204	28130	<i>Channa punctata</i>	7733020	25.52	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	3	260	7.35	25.15	silicates, tds, conductivity	11847
204	28134	<i>Channa punctata</i>	7733020	30.68	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	2	260	7.4	18	silicates, tds, conductivity	11847
204	28135	<i>Channa punctata</i>	7733020	29.88	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	3	260	7.4	18	silicates, tds, conductivity	11847
204	28139	<i>Channa punctata</i>	7733020	26.71	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	2	260	7.3	30	silicates, tds, conductivity	11847
204	28140	<i>Channa punctata</i>	7733020	22.91	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	3	260	7.3	30	silicates, tds, conductivity	11847

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
204	28144	<i>Channa punctata</i>	7733020	35.06	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	2	260	6	18	silicates, tds, conductivity	11847
204	28145	<i>Channa punctata</i>	7733020	27.84	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	3	260	6	18	silicates, tds, conductivity	11847
204	28156	<i>Channa punctata</i>	7733020	0.013	LT50/MOR/INC/	1.892 g, 56.7 mm	LAB/R/C	1.49	260	7.4	20.5		10722
204	28639	<i>Heteropneustes fossilis</i>	7733020	99.1	LC50/MOR/INC/		LAB/R/	2	250	7.45	24.5		16939
204	28640	<i>Heteropneustes fossilis</i>	7733020	79.4	LC50/MOR/INC/		LAB/R/	3	250	7.45	24.5		16939
204	29551	<i>Ictalurus punctatus</i>	7733020	12	NR-LETH/MOR//	fingerling, 130-140 mm	LAB/S/I	1.67	221	6.75	21.5		9382
204	29793	<i>Ictalurus punctatus</i>	7733020	8	/BCM//	fingerling, 130-140 mm	LAB/S/I	1.67	221	6.75	21.5		9382
204	28725	<i>Lepidocephalichthys guntea</i>	7733020	70	LC50/MOR/INC/	5.07 cm	LAB/R/	2	260	7.6	24		243
204	28726	<i>Lepidocephalichthys guntea</i>	7733020	57	LC50/MOR/INC/	5.07 cm	LAB/R/	3	260	7.6	24		243
204	28749	<i>Lepomis macrochirus</i>	7733020	6.44	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	360	7.75	25		2033
204	27439	<i>Oncorhynchus mykiss</i>	7646857	3.5	LT50/MOR/DEC/	3-15 mo	LAB/R/C	1.39	320	7.7	17.5		14412
204	27440	<i>Oncorhynchus mykiss</i>	7646857	3.5	LT50/MOR/DEC/	3-15 mo	LAB/R/C	1.04	320	7.7	17.5		14412
204	27441	<i>Oncorhynchus mykiss</i>	7646857	3.5	LT50/MOR/DEC/	3-15 mo	LAB/R/C	1.04	320	7.7	17.5		14412
204	28907	<i>Oncorhynchus mykiss</i>	7733020	0.908	LC50/MOR//	1 yr, 143 mm, 33.5 g	LAB/R/I	2	240	7.4	16.85		6202
204	28915	<i>Oncorhynchus mykiss</i>	7733020	2.46	LC50/MOR//	3-4 mo, 5.9 cm	LAB/R/S	2	320	7.8	17		10193
204	28946	<i>Oncorhynchus mykiss</i>	7733020	3.86	LC50/MOR//	fingerling	LAB/F/S	2	320	7.8	17.5		8006
204	28948	<i>Oncorhynchus mykiss</i>	7733020	2.4	LC50/MOR//	fingerling	LAB/F/S	2	320	7.8	17.5		8006
204	28959	<i>Oncorhynchus mykiss</i>	7733020	4.76	LC50/MOR//	15-17.5 cm	LAB/F/S	2	504	7.8	15.5		2111
204	28984	<i>Oncorhynchus mykiss</i>	7733020	4	LT50/MOR/DEC/	3-15 mo	LAB//	1.04	320	7.7	15.5		14412
204	28988	<i>Oncorhynchus mykiss</i>	7733020	4	LT50/MOR/DEC/	3-15 mo	LAB//	1.04	320	7.7	18.5		14412

mg total metal/L, hardness in mg CaCO3/L

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Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
204	28992	<i>Oncorhynchus mykiss</i>	7733020	3	LT50/MOR/DEC/	3-15 mo	LAB/R/	2.78	320	7.7	21.5		14412
204	28996	<i>Oncorhynchus mykiss</i>	7733020	3.5	LT50/MOR/DEC/	3-15 mo	LAB//	1.04	320	7.8	17.5	without acclimatization to dissolved oxygen concentration	14412
204	29006	<i>Oncorhynchus mykiss</i>	7733020	2.5	LT50/MOR/DEC/	3-15 mo	LAB/R/	2.08	320	7.8	17.5	without acclimatization to do	14412
204	29011	<i>Oncorhynchus mykiss</i>	7733020	3	LT50/MOR/DEC/	3-15 mo	LAB/R/	1.04	320	7.8	17.5	with acclimatization to do	14412
204	29016	<i>Oncorhynchus mykiss</i>	7733020	3.5	LT50/MOR/DEC/	3-15 mo	LAB//	1.04	320	7.8	17.5	with acclimatization to do	14412
204	29021	<i>Oncorhynchus mykiss</i>	7733020	3	LT50/MOR/DEC/	3-15 mo	LAB/S/	1.04	320	7.7	17.5	with acclimatization to do	14412
204	29249	<i>Pimephales promelas</i>	7733020	2.63	LC50/MOR//	egg, <1 d	LAB/F/S	2	186	7.55	20		2109
204	29250	<i>Pimephales promelas</i>	7733020	2.47	LC50/MOR//	egg, <1 d	LAB/F/S	2	186	7.55	20		2109
204	29258	<i>Pimephales promelas</i>	7733020	0.95	LC50/MOR//	fry, <1 d	LAB/F/S	2	186	7.55	20		2109
204	29290	<i>Pimephales promelas</i>	7733020	33.4	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	2	360	7.75	25		2033
204	29357	<i>Poecilia reticulata</i>	7733020	71.61	LC50/MOR//		LAB/R/S	2	260	7.4	20.5	see paper	15138
204	29358	<i>Poecilia reticulata</i>	7733020	59.53	LC50/MOR//		LAB/R/S	3	260	7.4	20.5	see paper	15138
204	29363	<i>Poecilia reticulata</i>	7733020	75	LC50/MOR/INC/	1.84 mg, 1.5 cm	LAB/R/	2	260	7.4	21		10343
204	29390	<i>Rasbora daniconius neilgeriens</i>	7733020	50.25	LC50/MOR/INC/		LAB/R/C	2	260	7.4	20.5		15138
204	29391	<i>Rasbora daniconius neilgeriens</i>	7733020	41.15	LC50/MOR/INC/		LAB/R/C	3	260	7.4	20.5		15138
205		Vertebrates exposed to zinc in very hard water at >15degC over <=1 day exposure											
205	28017	<i>Barbus sophore</i>	7733020	16.22	LC50/MOR//	1.831 g, 51 mm	LAB/R/S	1	315	7.4	25.5	conductivity, na, k, ca, silica, tds, inorganic solid, or-	5354
205	28019	<i>Barbus sophore</i>	7733020	85.56	LC50/MOR//		LAB/R/S	0.5	260	7.4	20.5		15138
205	28020	<i>Barbus sophore</i>	7733020	41.27	LC50/MOR//		LAB/R/S	1	260	7.4	20.5		15138
205	29685	<i>Barbus sophore</i>	7733020	35	/HIS//	48-70 mm, 1.50-2.95 g	LAB/R/S	1	210	7.4	19.5	conductivity and total solids	11082
205	28103	<i>Channa marulius</i>	7733020	50.93	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/S/S	0.5	270	7.35	26		10721

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
205	28104	<i>Channa marulius</i>	7733020	40.93	LC50/MOR//	3.5-5.0 g, 60-70 mm	LAB/S/S	1	270	7.35	26		10721
205	28108	<i>Channa punctata</i>	7733020	45.21	LC50/MOR//		LAB/R/S	0.5	260	7.4	20.5		15138
205	28109	<i>Channa punctata</i>	7733020	35.78	LC50/MOR//		LAB/R/S	1	260	7.4	20.5		15138
205	28117	<i>Channa punctata</i>	7733020	0.045	LC50/MOR//	1.892 g, 56.7 mm	LAB/R/S	0.5	260	7.4	20.5	conductivity 980(800-1050) uscm, sio2, na, k, ca, tds	10722
205	28118	<i>Channa punctata</i>	7733020	0.036	LC50/MOR//	1.892 g, 56.7 mm	LAB/R/S	1	260	7.4	20.5	conductivity 980(800-1050) uscm, sio2, na, k, ca, tds	10722
205	28122	<i>Channa punctata</i>	7733020	45.21	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	0.5	260	7.4	20.5	conductivity 980(800-1050) umhoscm, tds	11083
205	28123	<i>Channa punctata</i>	7733020	35.78	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	1	260	7.4	20.5	conductivity 980(800-1050) umhoscm, tds	11083
205	28127	<i>Channa punctata</i>	7733020	100	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	0.5	260	7.35	25.15	silicates, tds, conductivity	11847
205	28128	<i>Channa punctata</i>	7733020	68.74	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	1	260	7.35	25.15	silicates, tds, conductivity	11847
205	28132	<i>Channa punctata</i>	7733020	45.21	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	0.5	260	7.4	18	silicates, tds, conductivity	11847
205	28133	<i>Channa punctata</i>	7733020	35.78	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	1	260	7.4	18	silicates, tds, conductivity	11847
205	28137	<i>Channa punctata</i>	7733020	38.41	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	0.5	260	7.3	30	silicates, tds, conductivity	11847
205	28138	<i>Channa punctata</i>	7733020	29.52	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	1	260	7.3	30	silicates, tds, conductivity	11847
205	28142	<i>Channa punctata</i>	7733020	50.93	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	0.5	260	6	18	silicates, tds, conductivity	11847
205	28143	<i>Channa punctata</i>	7733020	40.93	LC50/MOR//	1.892 g, 56.7 mm	LAB/S/S	1	260	6	18	silicates, tds, conductivity	11847
205	28152	<i>Channa punctata</i>	7733020	0.022	LT50/MOR/INC/	1.892 g, 56.7 mm	LAB/R/C	0.31	260	7.4	20.5		10722
205	28153	<i>Channa punctata</i>	7733020	0.019	LT50/MOR/INC/	1.892 g, 56.7 mm	LAB/R/C	0.43	260	7.4	20.5		10722
205	28154	<i>Channa punctata</i>	7733020	0.014	LT50/MOR/INC/	1.892 g, 56.7 mm	LAB/R/C	0.52	260	7.4	20.5		10722
205	28155	<i>Channa punctata</i>	7733020	0.014	LT50/MOR/INC/	1.892 g, 56.7 mm	LAB/R/C	0.74	260	7.4	20.5		10722
205	27778	<i>Ctenopharyngodon idella</i>	7646857	55	/MOR//	3-5 cm	LAB/S/S	0.21	194.8	6.7	22.5		15701

mg total metal/L, hardness in mg CaCO₃/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
205	27784	<i>Cyprinus carpio</i>	7646857	25	/HIS//	3-5 cm	LAB/S/S	0.5	194.8	6.7	22.5		15701
205	27785	<i>Cyprinus carpio</i>	7646857	25	/HIS//	3-5 cm	LAB/S/S	0.5	194.8	6.7	22.5		15701
205	27786	<i>Cyprinus carpio</i>	7646857	55	/MOR//	3-5 cm	LAB/S/S	0.5	194.8	6.7	22.5		15701
205	29734	<i>Cyprinus carpio</i>	7733020	1.1	/GRO//	fertilized egg	LAB/S/S	0.96	242.5	8	19.1		15237
205	29544	<i>Gambusia affinis</i>	7733020	80	/BCM/CHG/NOSIG	mature female	LAB//C	1	194	7.8	25		4500
205	29545	<i>Gambusia affinis</i>	7733020	80	/ENZ/CHG/MULT	mature female	LAB//C	1	194	7.8	25		4500
205	29546	<i>Gambusia affinis</i>	7733020	80	/GEN/DEC/SIG	mature female	LAB//C	1	194	7.8	25		4500
205	28638	<i>Heteropneustes fossilis</i>	7733020	123	LC50/MOR/INC/		LAB/R/	1	250	7.45	24.5		16939
205	28724	<i>Lepidocephalichthys guntea</i>	7733020	95	LC50/MOR/INC/	5.07 cm	LAB/S/	1	260	7.6	24		243
205	28748	<i>Lepomis macrochirus</i>	7733020	9.07	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	360	7.75	25		2033
205	27442	<i>Oncorhynchus mykiss</i>	7646857	7.5	LT50/MOR/DEC/	3-15 mo	LAB/S/C	0.52	320	7.7	17.5		14412
205	27443	<i>Oncorhynchus mykiss</i>	7646857	7.5	LT50/MOR/DEC/	3-15 mo	LAB/S/C	0.24	320	7.7	17.5		14412
205	27444	<i>Oncorhynchus mykiss</i>	7646857	7.5	LT50/MOR/DEC/	3-15 mo	LAB/S/C	0.24	320	7.7	17.5		14412
205	27445	<i>Oncorhynchus mykiss</i>	7646857	15	LT50/MOR/DEC/	3-15 mo	LAB/S/C	0.24	320	7.7	17.5		14412
205	27446	<i>Oncorhynchus mykiss</i>	7646857	35	LT50/MOR/DEC/	3-15 mo	LAB/S/C	0.24	320	7.7	17.5		14412
205	27447	<i>Oncorhynchus mykiss</i>	7646857	50	LT50/MOR/DEC/	3-15 mo	LAB/S/C	0.14	320	7.7	17.5		14412
205	28960	<i>Oncorhynchus mykiss</i>	7733020	9	LC50/MOR//	15-17.5 cm	LAB/F/S	0.35	504	7.8	15.5		2111
205	28961	<i>Oncorhynchus mykiss</i>	7733020	6.6	LC50/MOR//	15-17.5 cm	LAB/F/S	0.49	504	7.8	15.5		2111
205	28962	<i>Oncorhynchus mykiss</i>	7733020	6	LC50/MOR//	15-17.5 cm	LAB/F/S	0.63	504	7.8	15.5		2111
205	28963	<i>Oncorhynchus mykiss</i>	7733020	5.3	LC50/MOR//	15-17.5 cm	LAB/F/S	1	504	7.8	15.5		2111
205	28985	<i>Oncorhynchus mykiss</i>	7733020	7	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.28	320	7.7	15.5		14412
205	28986	<i>Oncorhynchus mykiss</i>	7733020	15	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.7	15.5		14412
205	28987	<i>Oncorhynchus mykiss</i>	7733020	25	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.14	320	7.7	15.5		14412

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
205	28989	<i>Oncorhynchus mykiss</i>	7733020	7	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.28	320	7.7	18.5		14412
205	28990	<i>Oncorhynchus mykiss</i>	7733020	15	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.7	18.5		14412
205	28991	<i>Oncorhynchus mykiss</i>	7733020	20	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.1	320	7.7	18.5		14412
205	28993	<i>Oncorhynchus mykiss</i>	7733020	5.5	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.38	320	7.7	21.5		14412
205	28994	<i>Oncorhynchus mykiss</i>	7733020	8.5	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.7	21.5		14412
205	28995	<i>Oncorhynchus mykiss</i>	7733020	15	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.1	320	7.7	21.5		14412
205	28997	<i>Oncorhynchus mykiss</i>	7733020	4	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.49	320	7.8	17.5	without acclimatization to dissolved oxygen concentration	14412
205	28998	<i>Oncorhynchus mykiss</i>	7733020	6	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	without acclimatization to dissolved oxygen concentration	14412
205	28999	<i>Oncorhynchus mykiss</i>	7733020	8	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	without acclimatization to dissolved oxygen concentration	14412
205	29000	<i>Oncorhynchus mykiss</i>	7733020	12	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.14	320	7.8	17.5	without acclimatization to do	14412
205	29001	<i>Oncorhynchus mykiss</i>	7733020	3	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.49	320	7.8	17.5	without acclimatization to do	14412
205	29002	<i>Oncorhynchus mykiss</i>	7733020	4	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.49	320	7.8	17.5	without acclimatization to do	14412
205	29003	<i>Oncorhynchus mykiss</i>	7733020	6	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	without acclimatization to do	14412
205	29004	<i>Oncorhynchus mykiss</i>	7733020	8	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.14	320	7.8	17.5	without acclimatization to do	14412

mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
205	29005	<i>Oncorhynchus mykiss</i>	7733020	12	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.1	320	7.8	17.5	without acclimatization to do	14412
205	29007	<i>Oncorhynchus mykiss</i>	7733020	3.5	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.49	320	7.8	17.5	without acclimatization to do	14412
205	29008	<i>Oncorhynchus mykiss</i>	7733020	4	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	without acclimatization to do	14412
205	29009	<i>Oncorhynchus mykiss</i>	7733020	7	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	without acclimatization to do	14412
205	29010	<i>Oncorhynchus mykiss</i>	7733020	8	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.14	320	7.8	17.5	without acclimatization to do	14412
205	29012	<i>Oncorhynchus mykiss</i>	7733020	4	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.49	320	7.8	17.5	with acclimatization to do	14412
205	29013	<i>Oncorhynchus mykiss</i>	7733020	6	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.28	320	7.8	17.5	with acclimatization to do	14412
205	29014	<i>Oncorhynchus mykiss</i>	7733020	8	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	with acclimatization to do	14412
205	29015	<i>Oncorhynchus mykiss</i>	7733020	12	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	with acclimatization to do	14412
205	29017	<i>Oncorhynchus mykiss</i>	7733020	4	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.49	320	7.8	17.5	with acclimatization to do	14412
205	29018	<i>Oncorhynchus mykiss</i>	7733020	6	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	with acclimatization to do	14412
205	29019	<i>Oncorhynchus mykiss</i>	7733020	8	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	with acclimatization to do	14412
205	29020	<i>Oncorhynchus mykiss</i>	7733020	200	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.14	320	7.7	17.5	with acclimatization to do	14412
205	29022	<i>Oncorhynchus mykiss</i>	7733020	4	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.49	320	7.7	17.5	with acclimatization to do	14412
205	29023	<i>Oncorhynchus mykiss</i>	7733020	6	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	with acclimatization to do	14412
205	29024	<i>Oncorhynchus mykiss</i>	7733020	8	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	with acclimatization to do	14412
205	29025	<i>Oncorhynchus mykiss</i>	7733020	12	LT50/MOR/DEC/	3-15 mo	LAB/S/	0.21	320	7.8	17.5	with acclimatization to do	14412

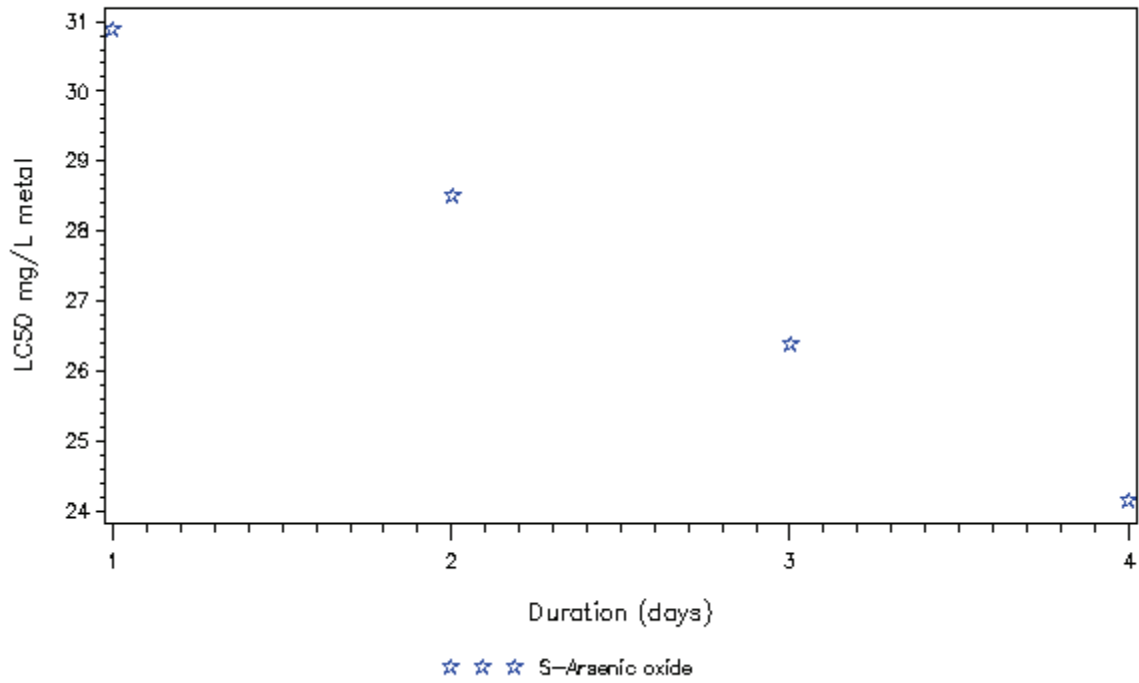
mg total metal/L, hardness in mg CaCO3/L

* See ECOTOX coding key at beginning of this Appendix

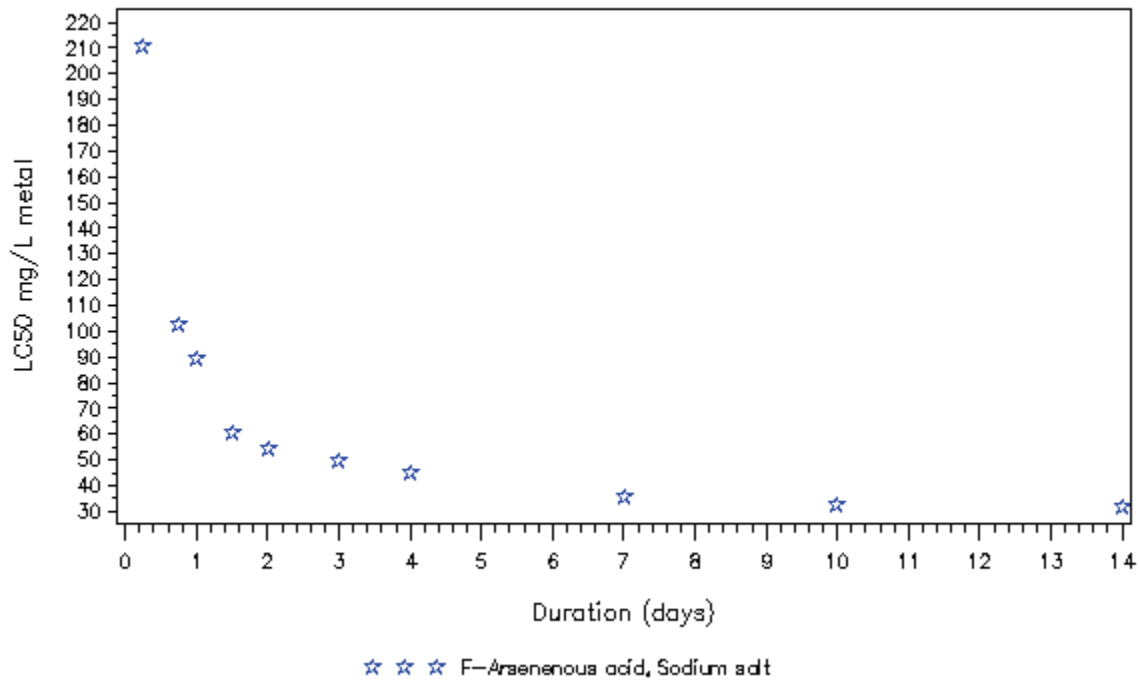
Data plotted in Species Sensitivity Distributions

SSD Record ID	Record Number	Taxa	CAS*	Exposure	Response (Endpoint/Effect/Trend/Significant)*	Test Organism	Design (Location/Exposure/Control Type)*	Days	Hardness	pH	°C	Design Comment	Citation
205	29837	<i>Oncorhynchus mykiss</i>	7733020	14.09	/BCM//	17.7 g	LAB/F/I	0.08	328	7.55	19		703
205	27526	<i>Pimephales promelas</i>	7646857	7.62	LC50/MOR/INC/	40 mm	LAB/S/C	1	200	7.4	22	newton hatchery fish	10237
205	27528	<i>Pimephales promelas</i>	7646857	7.45	LC50/MOR/INC/	40 mm	LAB/S/C	1	200	7.4	22	flyash pond fish	10237
205	29247	<i>Pimephales promelas</i>	7733020	3.98	LC50/MOR//	egg, <1 d	LAB/F/S	1	186	7.55	20		2109
205	29248	<i>Pimephales promelas</i>	7733020	3.92	LC50/MOR//	egg, <1 d	LAB/F/S	1	186	7.55	20		2109
205	29257	<i>Pimephales promelas</i>	7733020	0.95	LC50/MOR//	fry, <1 d	LAB/F/S	1	186	7.55	20		2109
205	29289	<i>Pimephales promelas</i>	7733020	34.5	LC50/MOR//	1-2 g, 3.8-6.4 cm	LAB/S/I	1	360	7.75	25		2033
205	29326	<i>Pimephales promelas</i>	7733020	0.205	LOEC/AVO//	30 d, 0.3 g	LAB/F/S	0.04	380	7.84	20		9598
205	29353	<i>Pimephales promelas</i>	7733020	0.077	NOEC/AVO//	12-14 mo, 3.14 g, 63.3 mm	LAB/F/S	0.04	380	7.84	20		9598
205	29355	<i>Poecilia reticulata</i>	7733020	103.9	LC50/MOR//		LAB/R/S	0.5	260	7.4	20.5	see paper	15138
205	29356	<i>Poecilia reticulata</i>	7733020	88.72	LC50/MOR//		LAB/R/S	1	260	7.4	20.5	see paper	15138
205	29388	<i>Rasbora daniconius neilgeriens</i>	7733020	83.58	LC50/MOR/INC/		LAB/R/C	0.5	260	7.4	20.5		15138
205	29389	<i>Rasbora daniconius neilgeriens</i>	7733020	52.41	LC50/MOR/INC/		LAB/R/C	1	260	7.4	20.5		15138

Barbus javanicus exposed to Arsenic at T>15C in very hard water

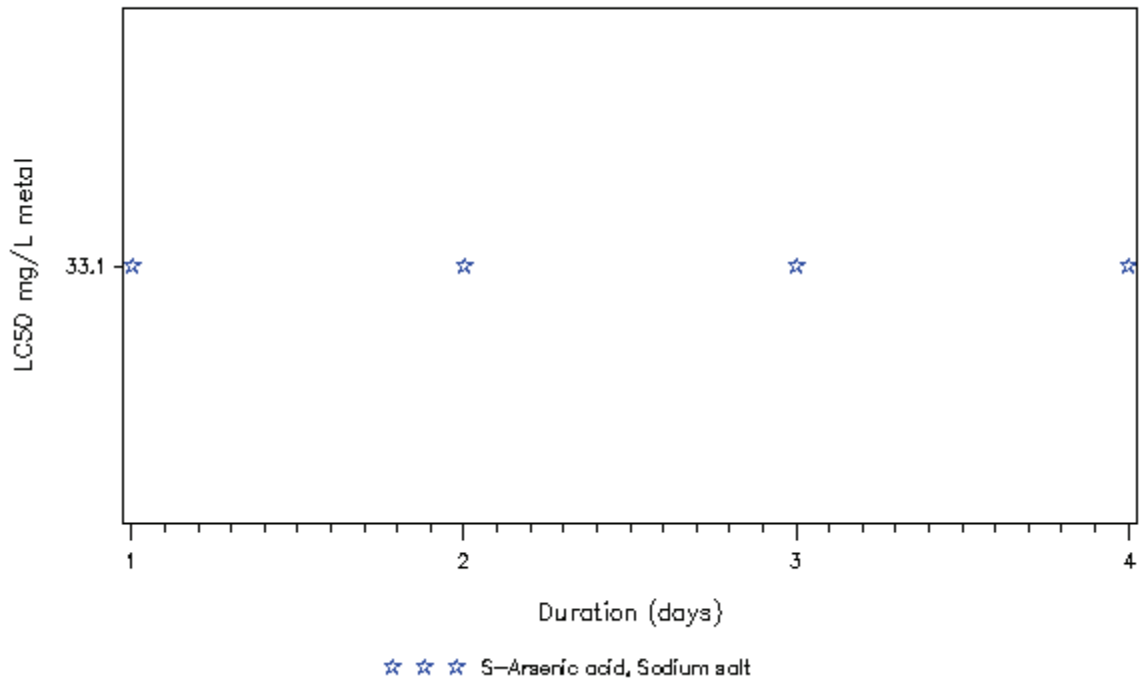


Carassius auratus exposed to Arsenic at T>15C in hard water

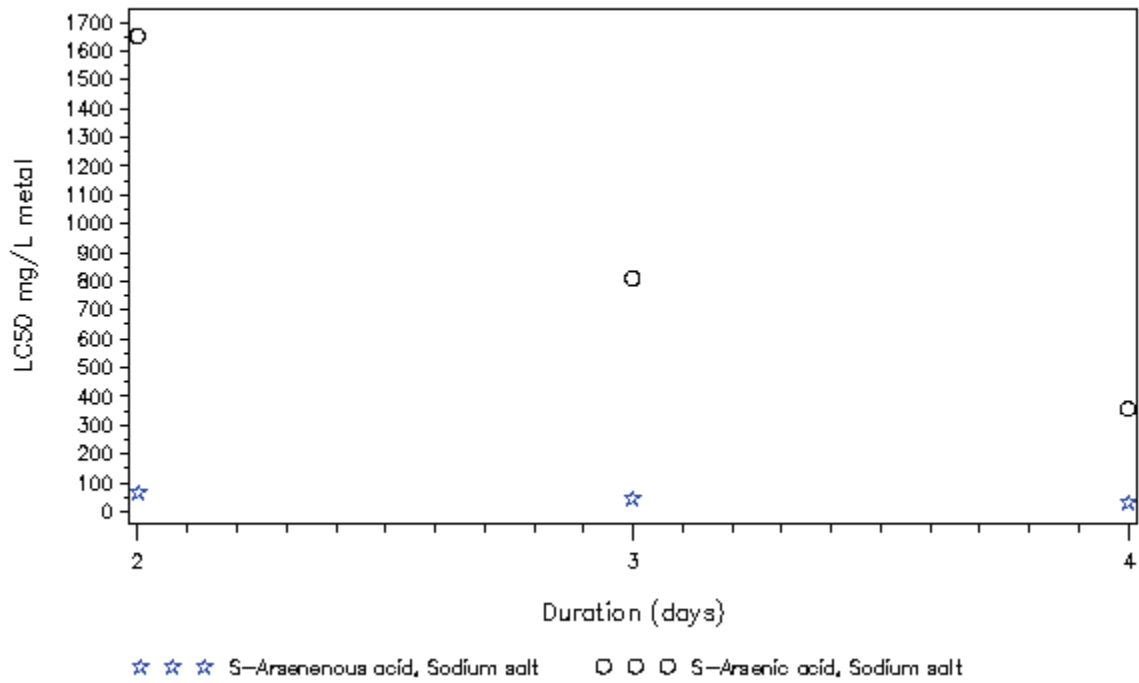


S – Static Test, F – Flowthrough Test, R –Renewal Test

Catostomus latipinnis exposed to Arsenic at T>15C in hard water

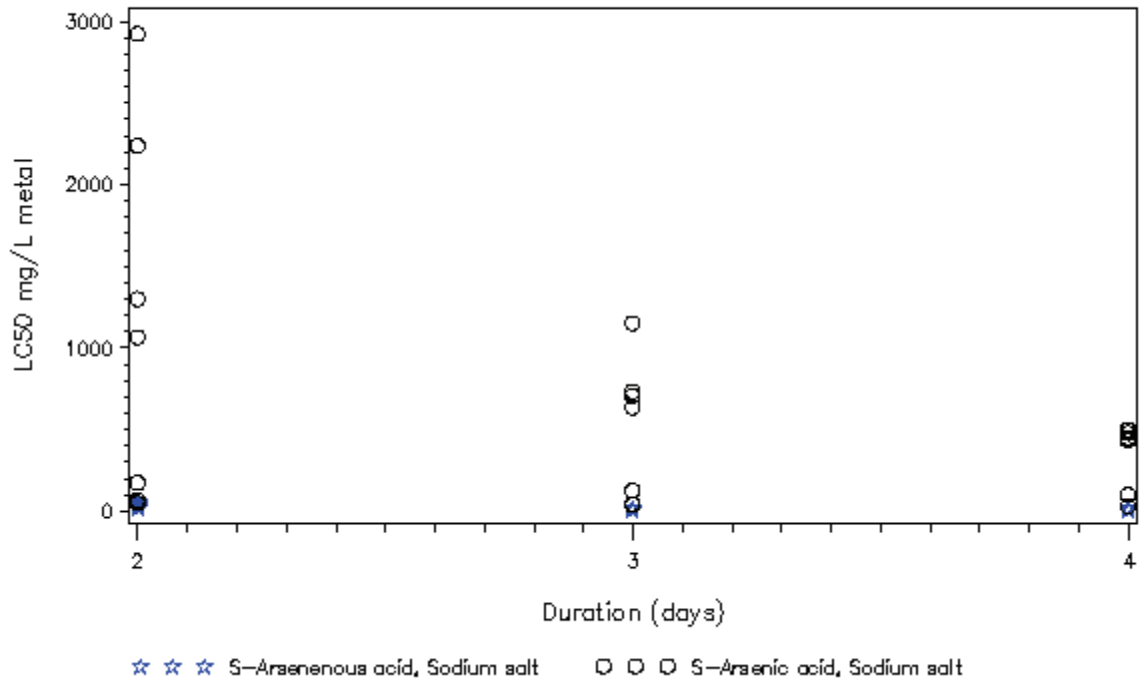


Chironomus exposed to Arsenic at T<=15C in soft water

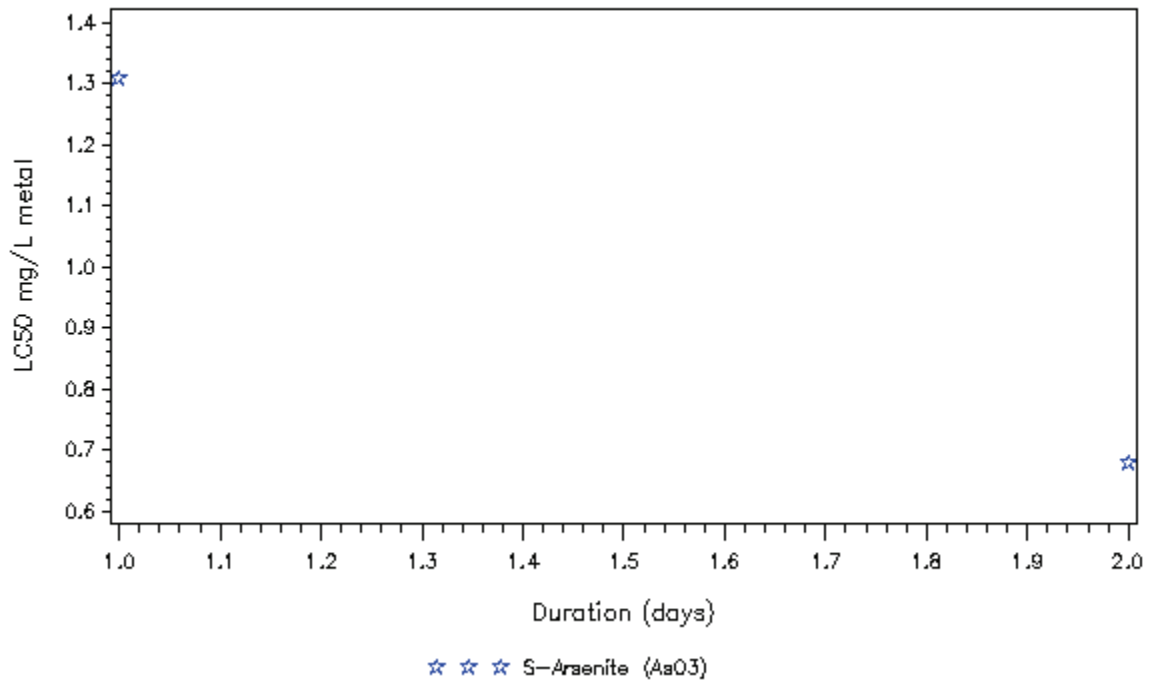


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus exposed to Arsenic at T>15C in soft water

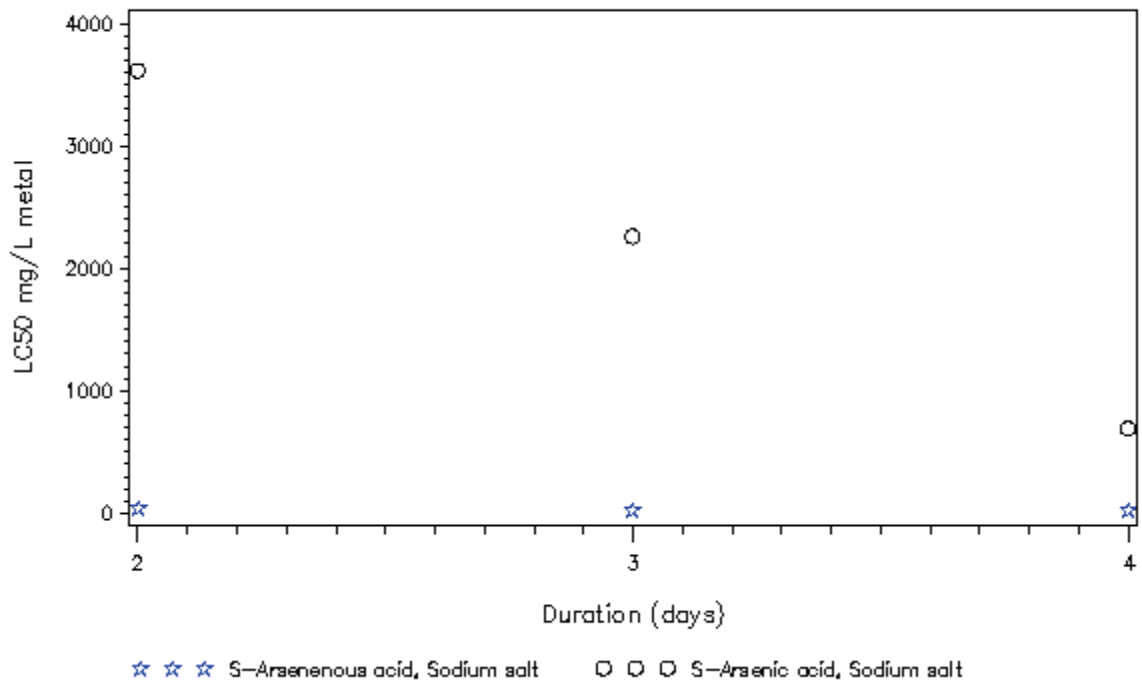


Chironomus tentans exposed to Arsenic at T<=15C in soft water

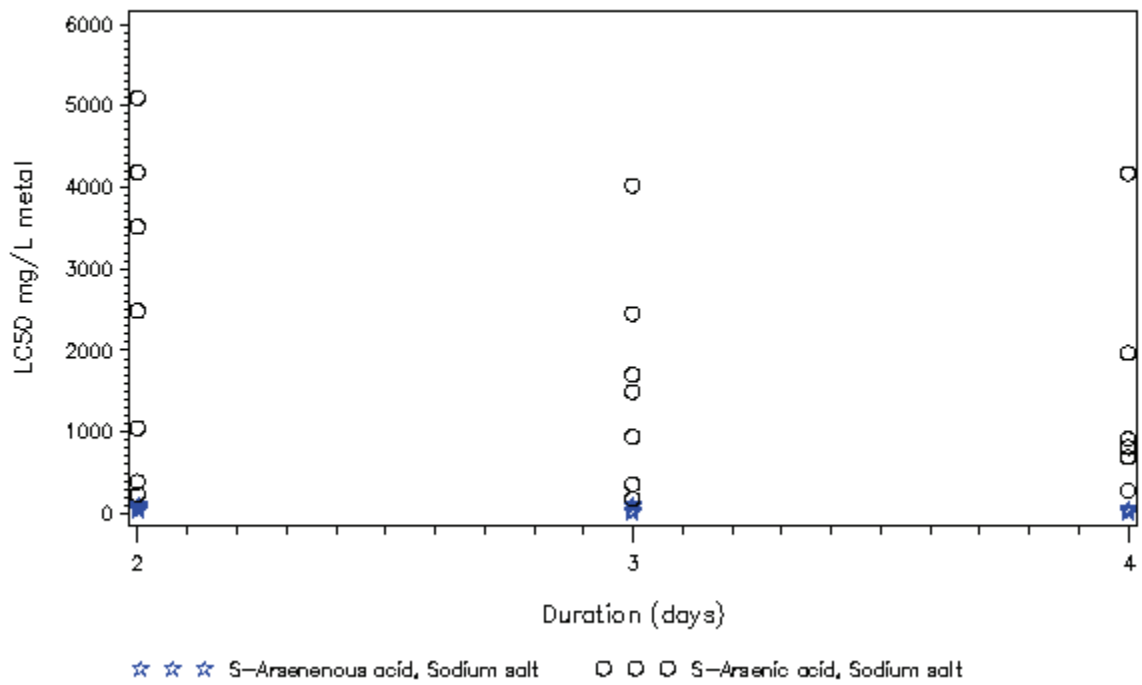


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus zealandicus exposed to Arsenic at T<=15C in soft water

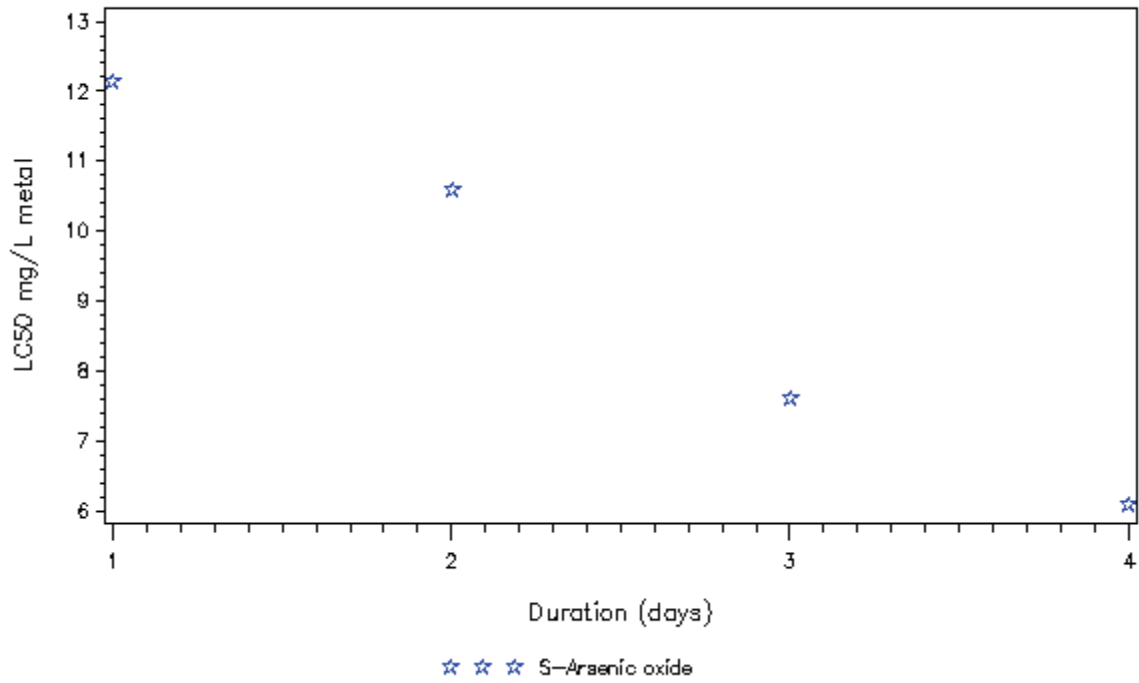


Chironomus zealandicus exposed to Arsenic at T>15C in soft water

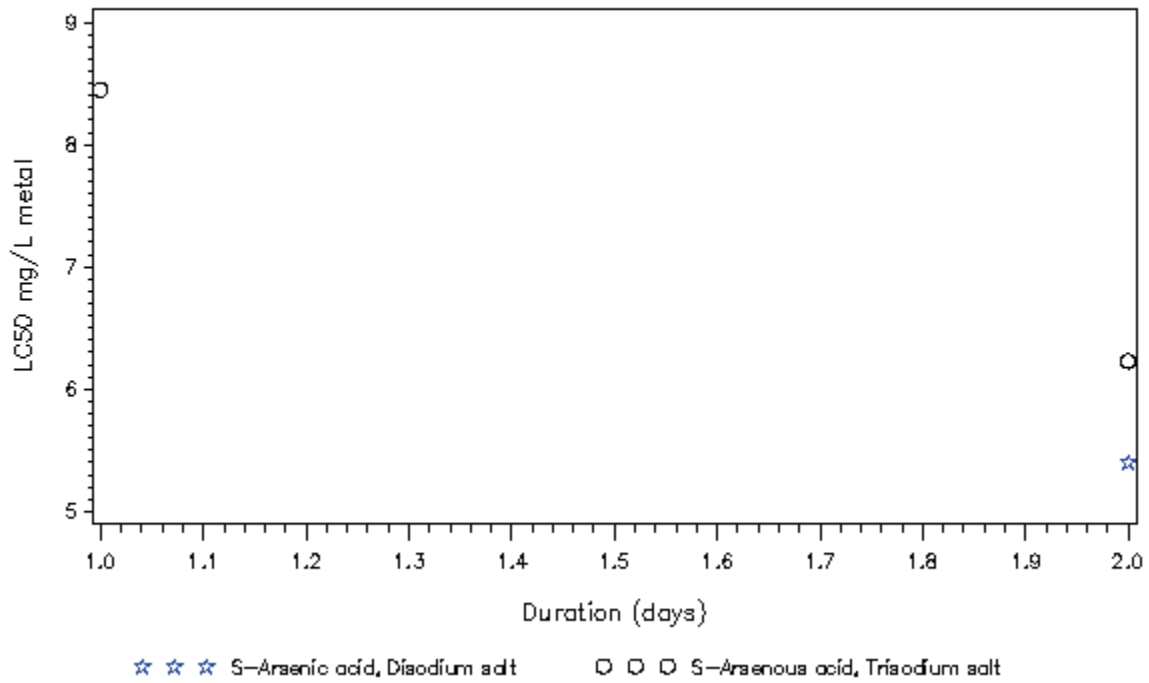


S – Static Test, F – Flowthrough Test, R –Renewal Test

Colisa fasciata exposed to Arsenic at T>15C in NONE water

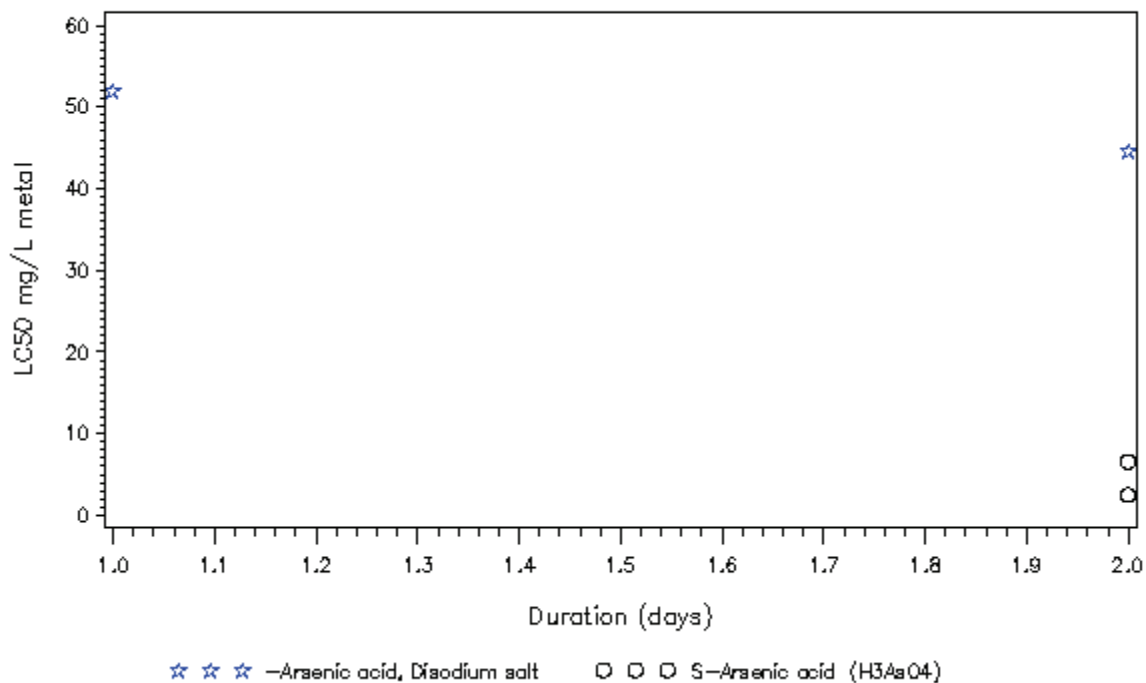


Daphnia magna exposed to Arsenic at T<=15C in NONE water

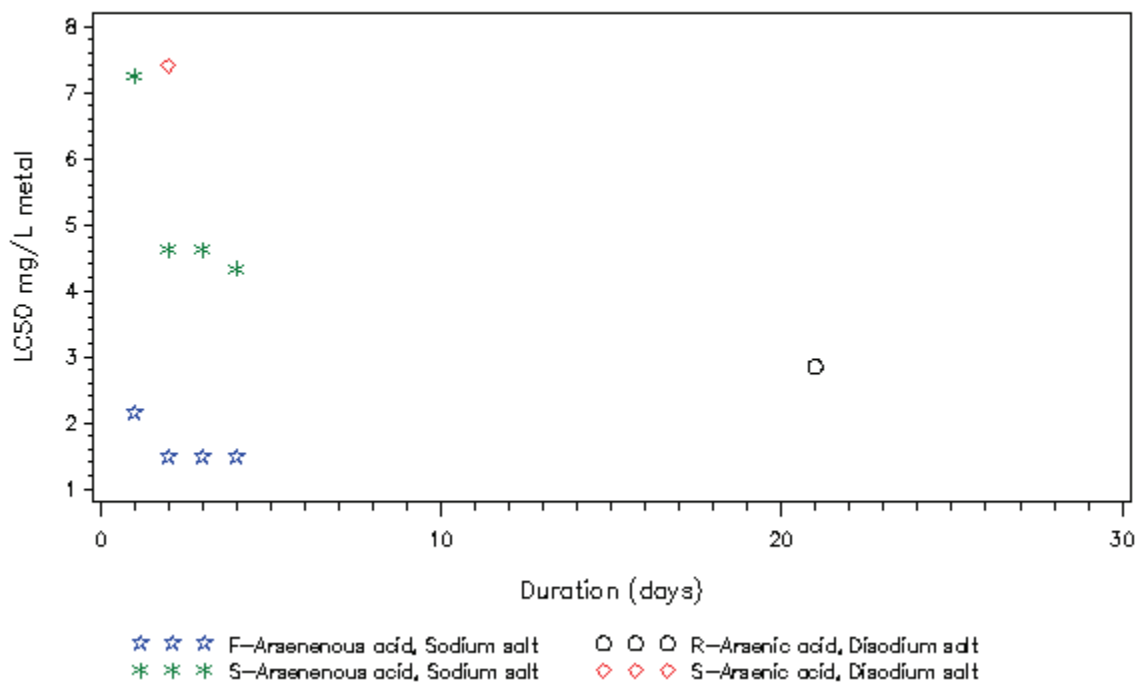


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Arsenic at T>15C in NONE water

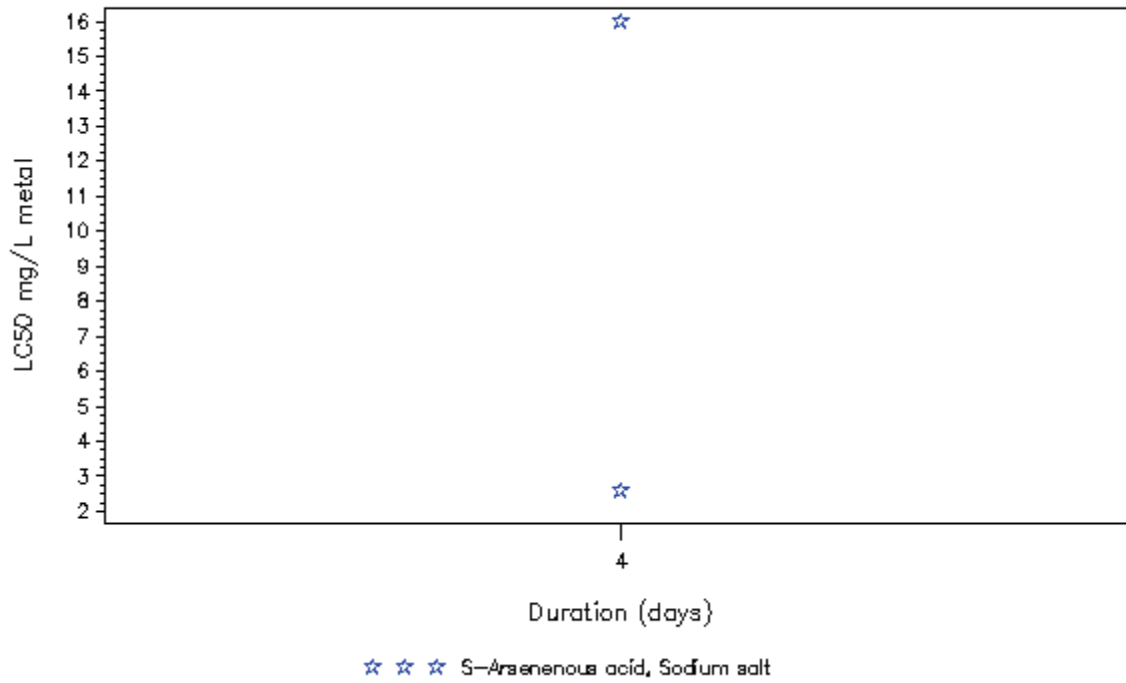


Daphnia magna exposed to Arsenic at T>15C in soft water

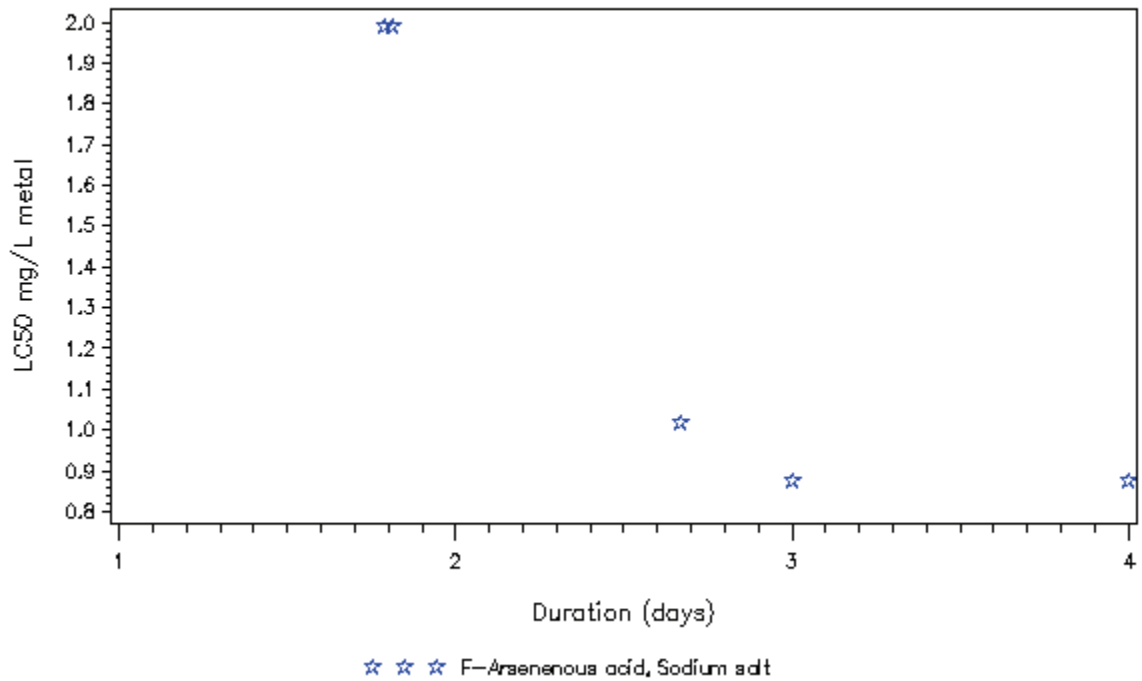


S – Static Test, F – Flowthrough Test, R –Renewal Test

Esox masquinongy exposed to Arsenic at T>15C in NONE water

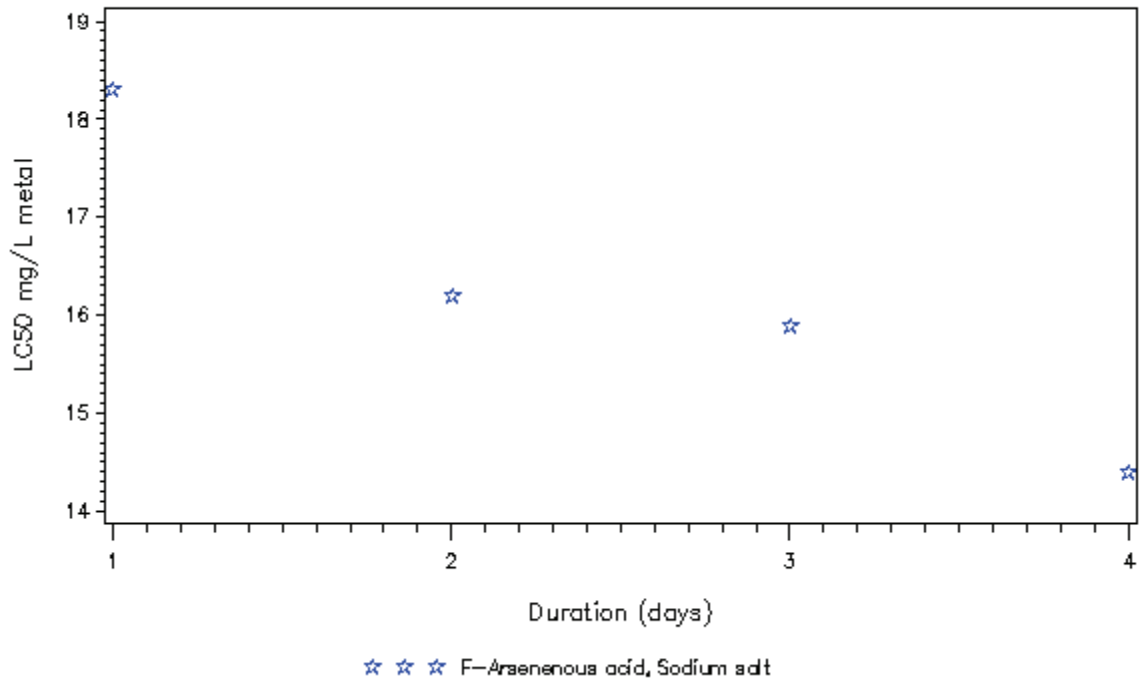


Gammarus pseudolimnaeus exposed to Arsenic at T>15C in soft water

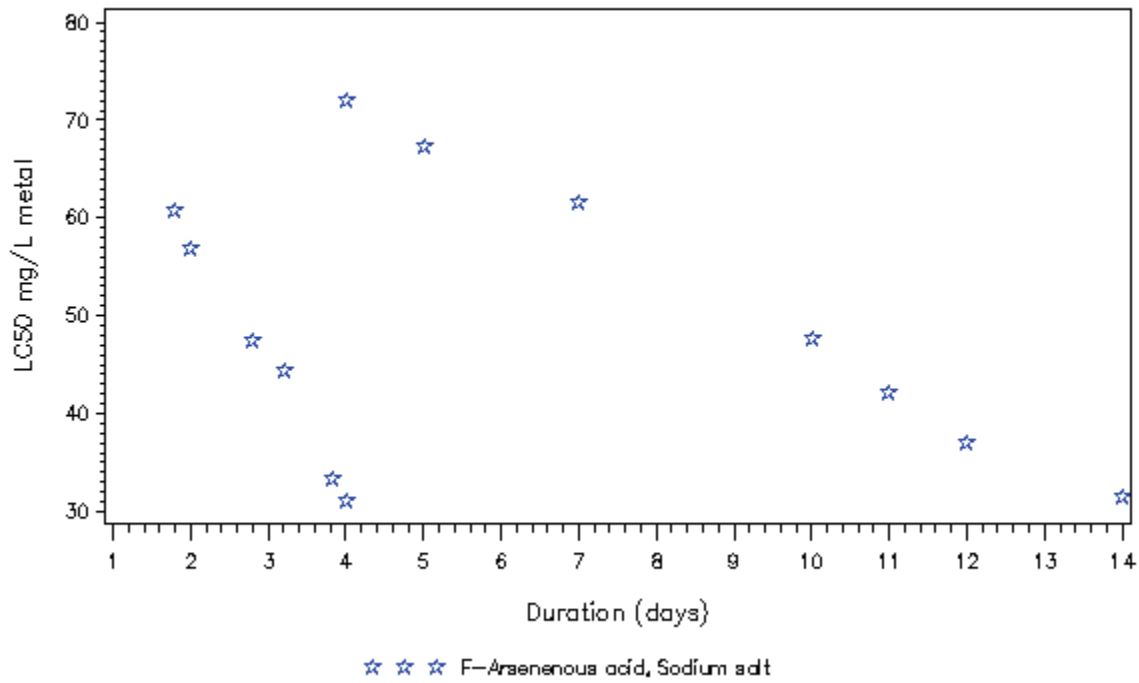


S – Static Test, F – Flowthrough Test, R –Renewal Test

Jordanella floridae exposed to Arsenic at T>15C in soft water

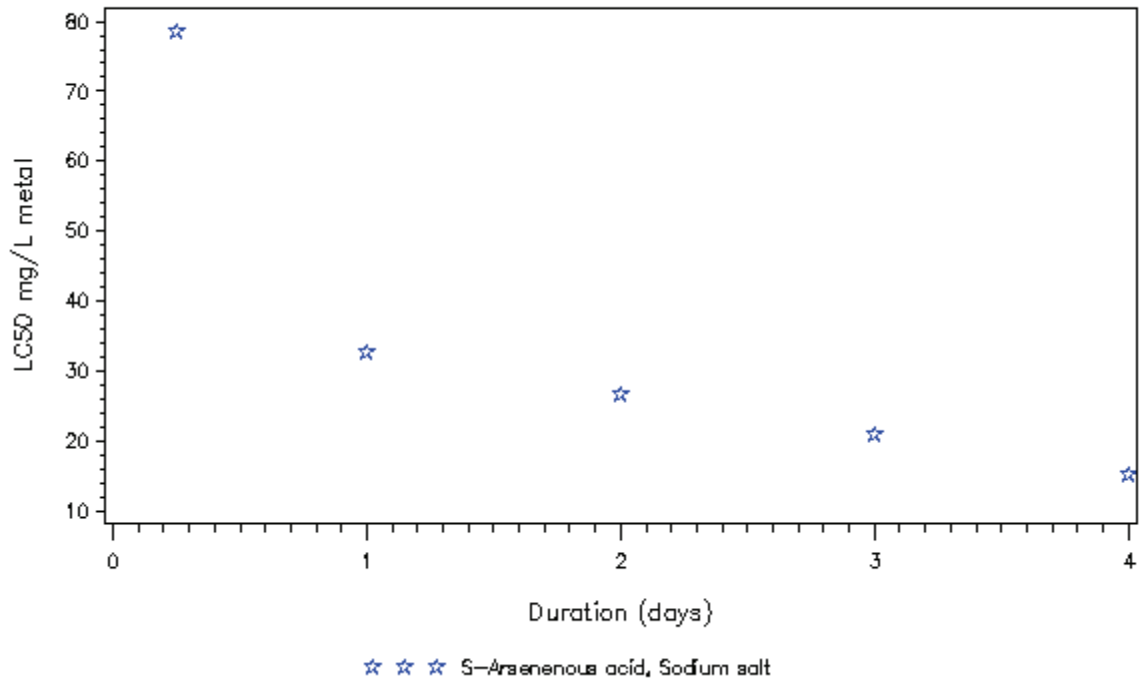


Lepomis macrochirus exposed to Arsenic at T>15C in hard water

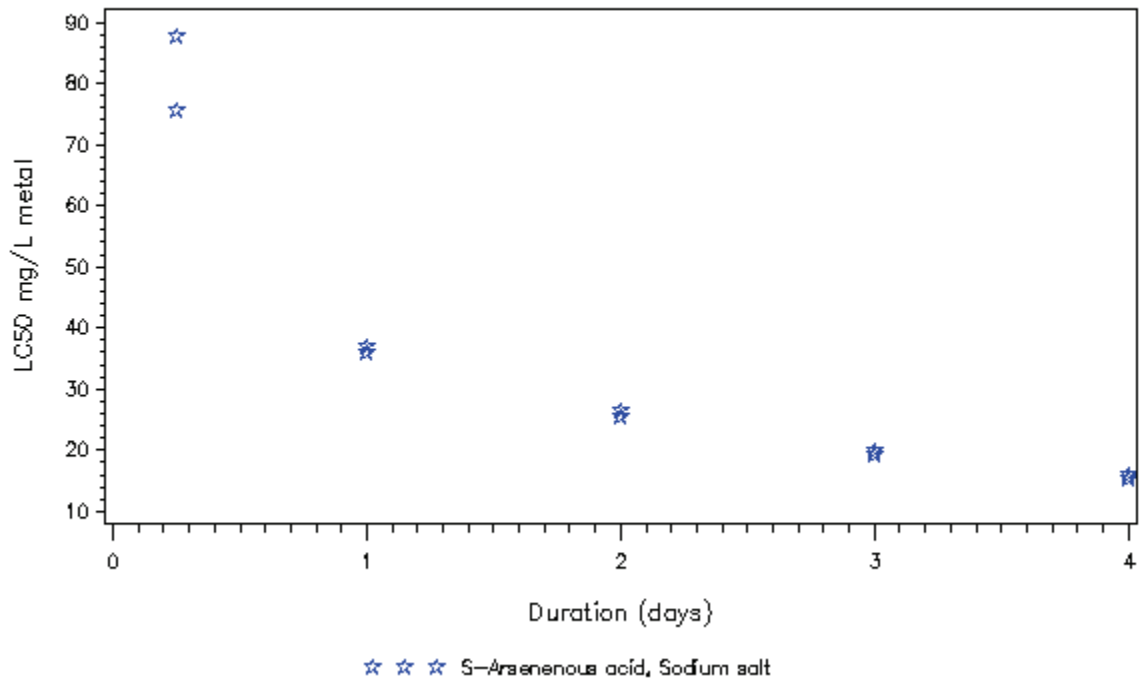


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis macrochirus exposed to Arsenic at T>15C in soft water

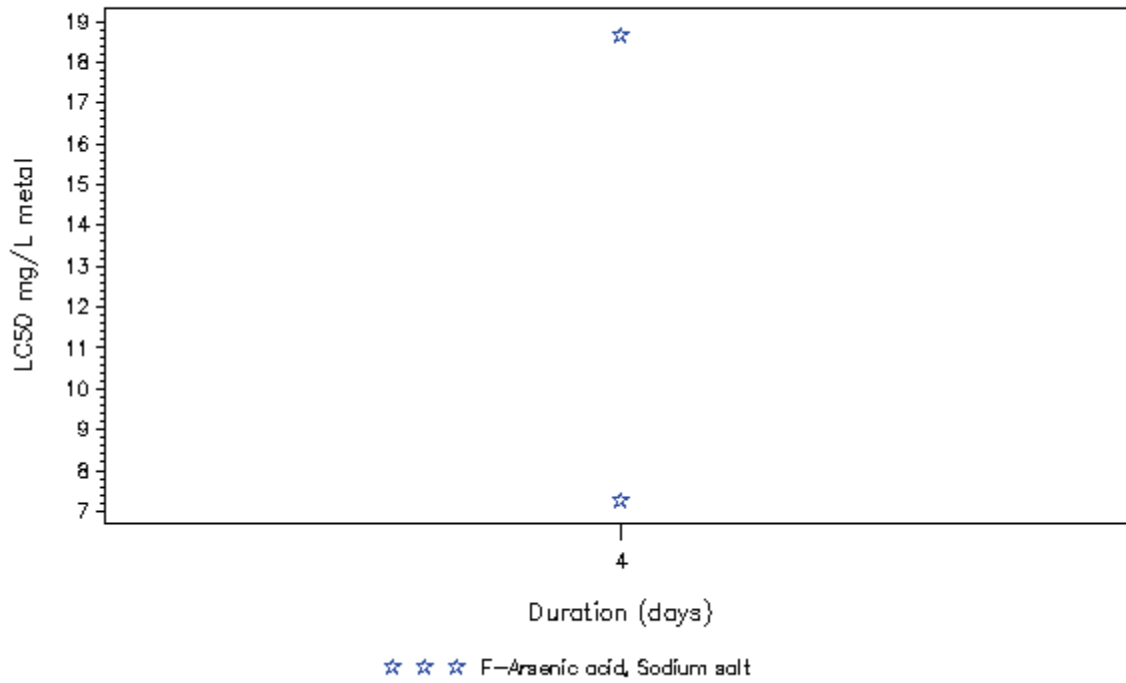


Lepomis macrochirus exposed to Arsenic at T>15C in very hard water

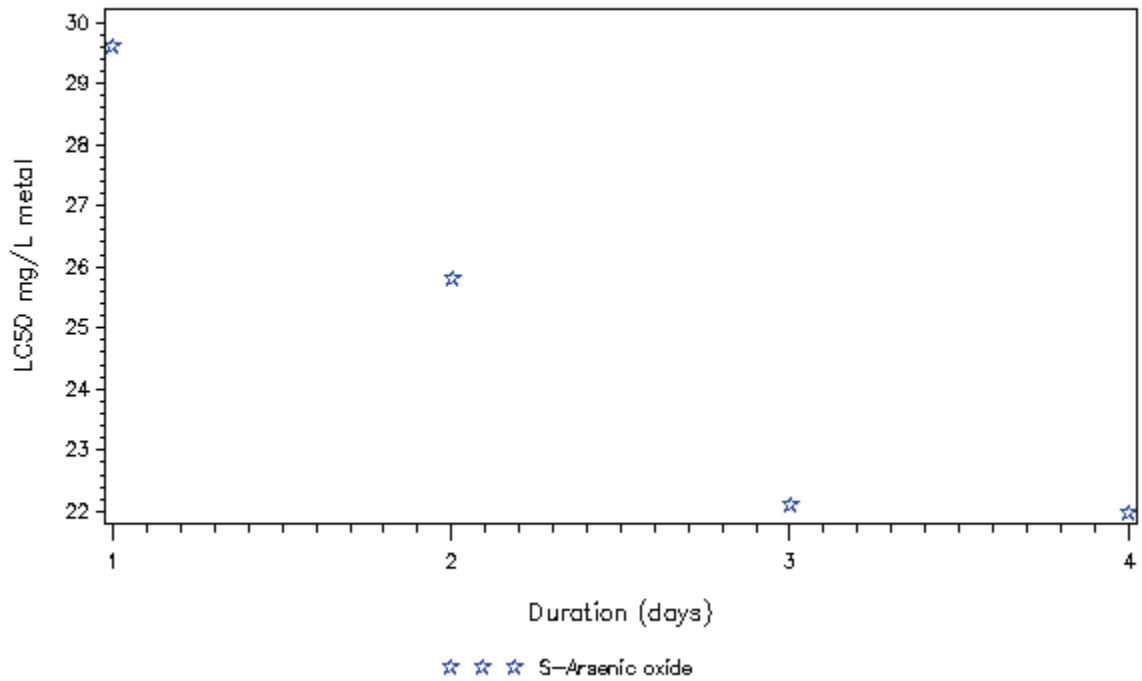


S – Static Test, F – Flowthrough Test, R –Renewal Test

Morone saxatilis exposed to Arsenic at T>15C in NONE water

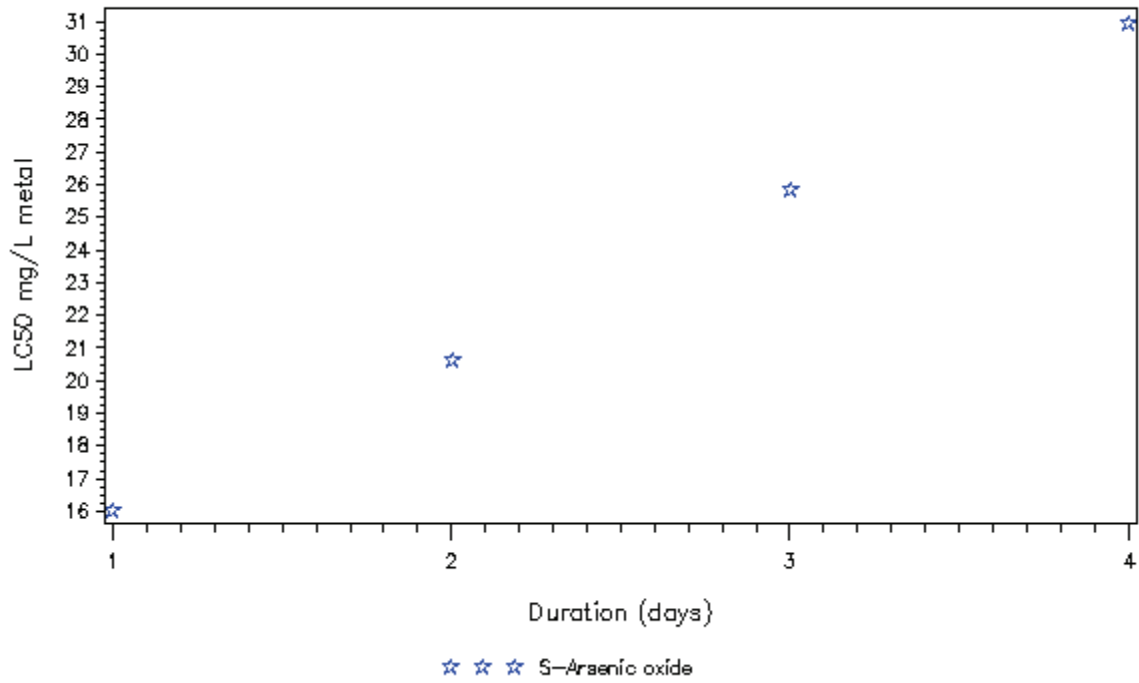


Mystus vittatus exposed to Arsenic at T>15C in very hard water

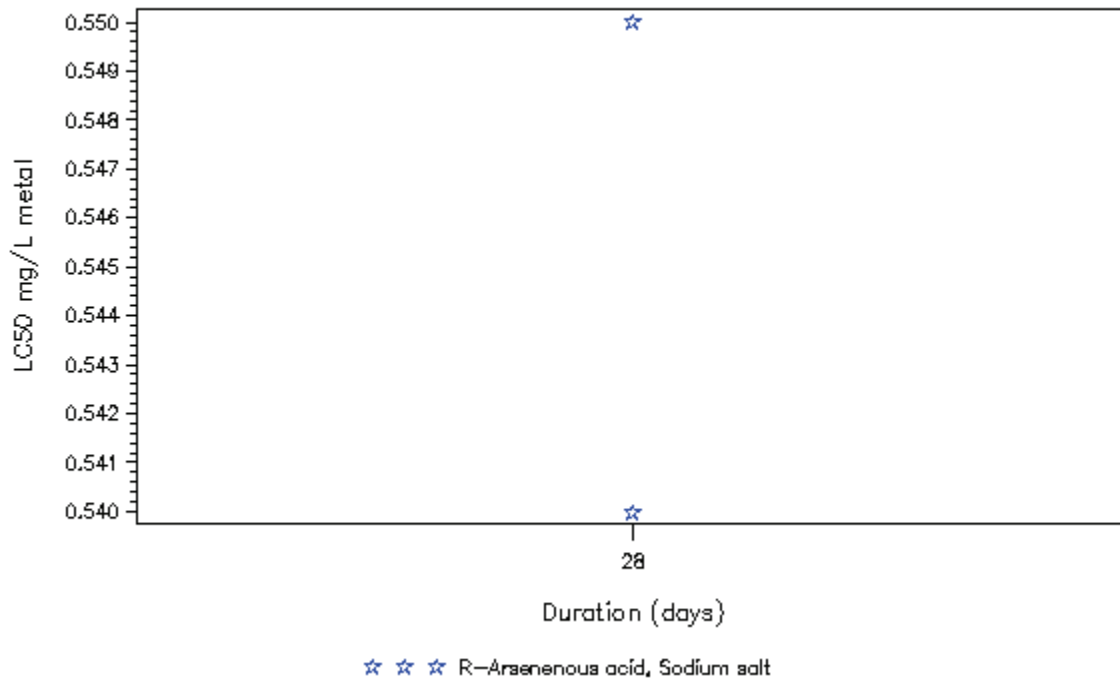


S – Static Test, F – Flowthrough Test, R –Renewal Test

Notopterus notopterus exposed to Arsenic at T>15C in very hard water

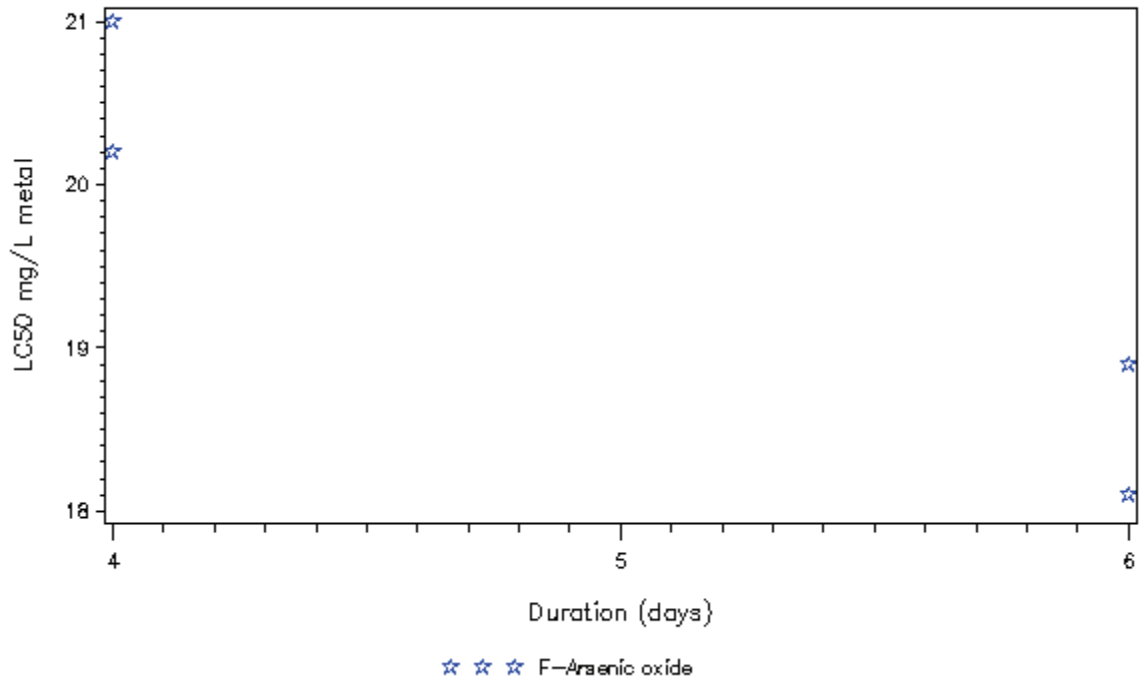


Oncorhynchus mykiss exposed to Arsenic at T<=15C in moderate water

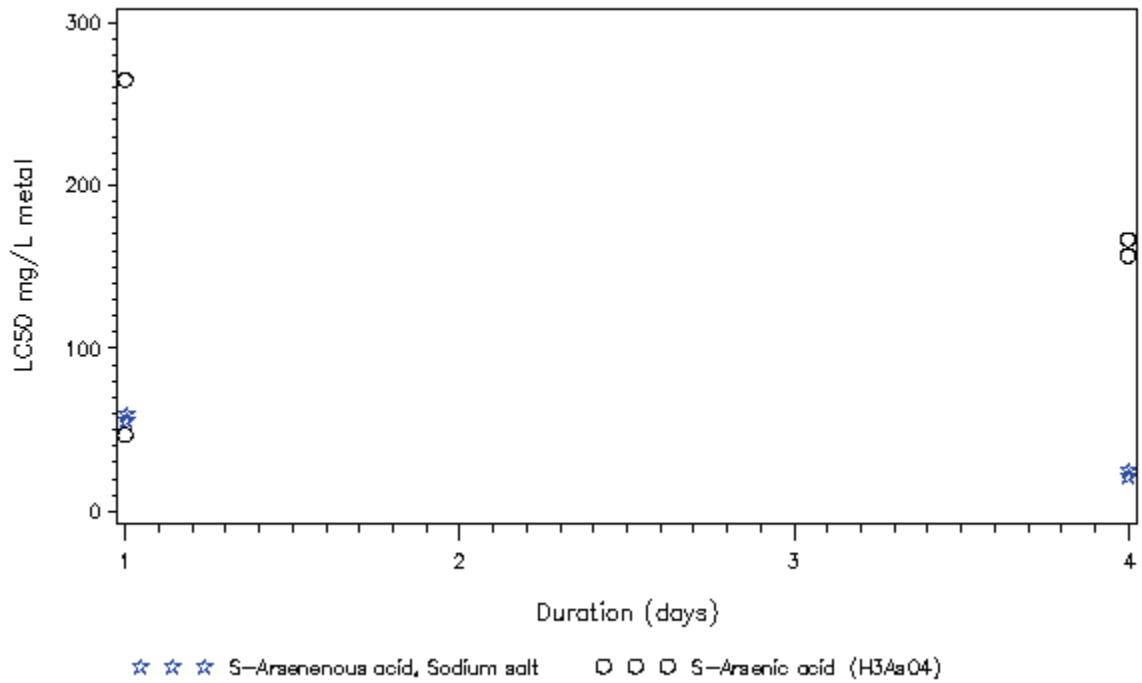


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Arsenic at T<=15C in very hard water

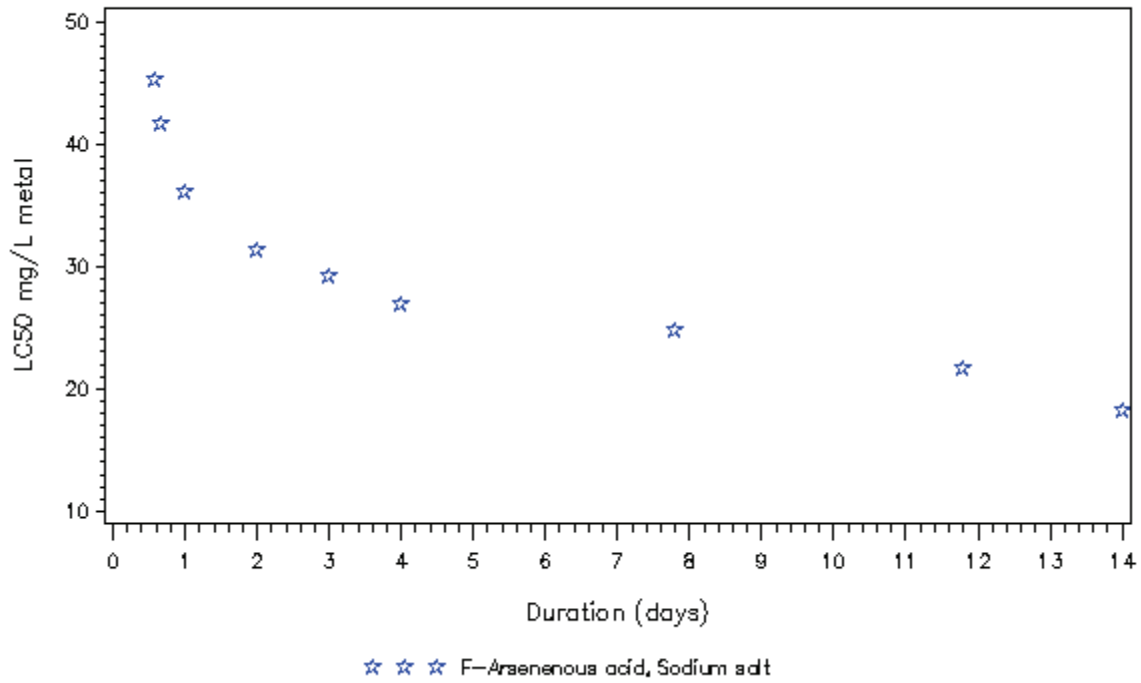


Oncorhynchus tshawytscha exposed to Arsenic at T<=15C in very hard water

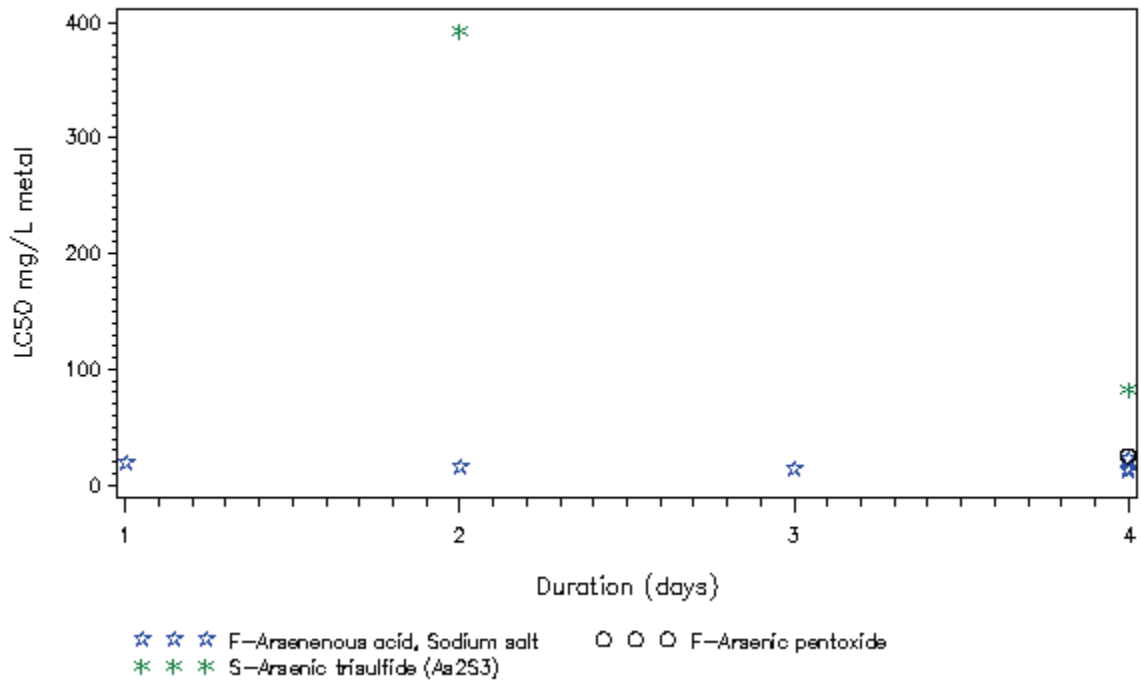


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Arsenic at T>15C in hard water

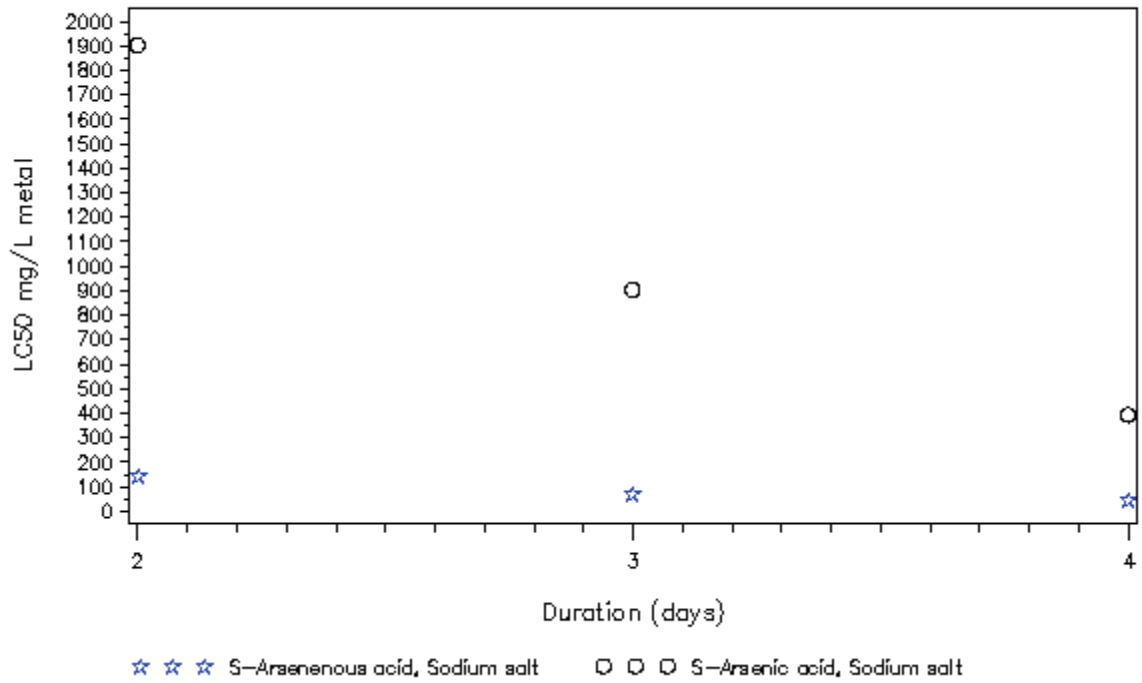


Pimephales promelas exposed to Arsenic at T>15C in soft water

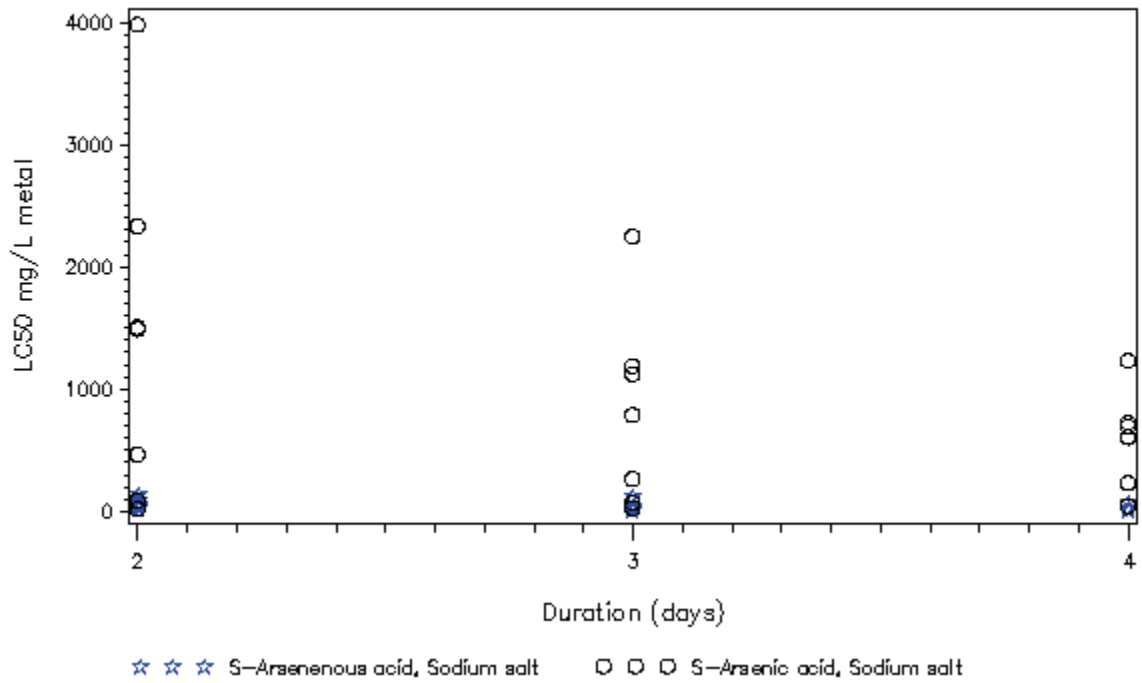


S – Static Test, F – Flowthrough Test, R –Renewal Test

Polypedilum exposed to Arsenic at T<=15C in soft water

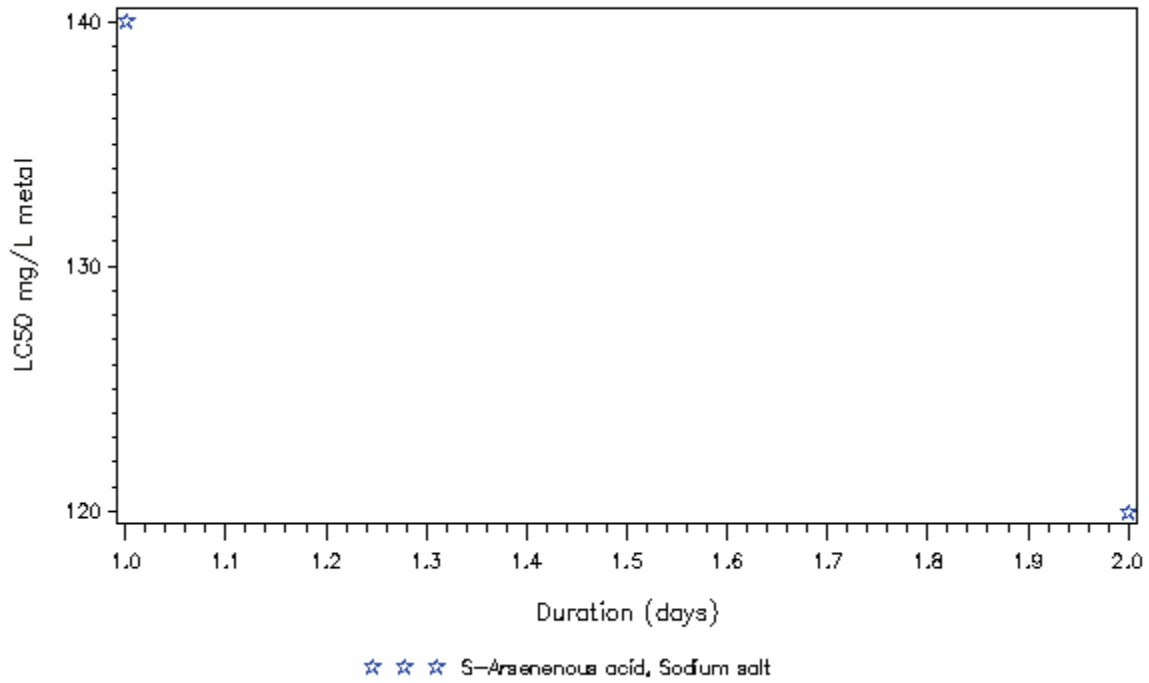


Polypedilum exposed to Arsenic at T>15C in soft water

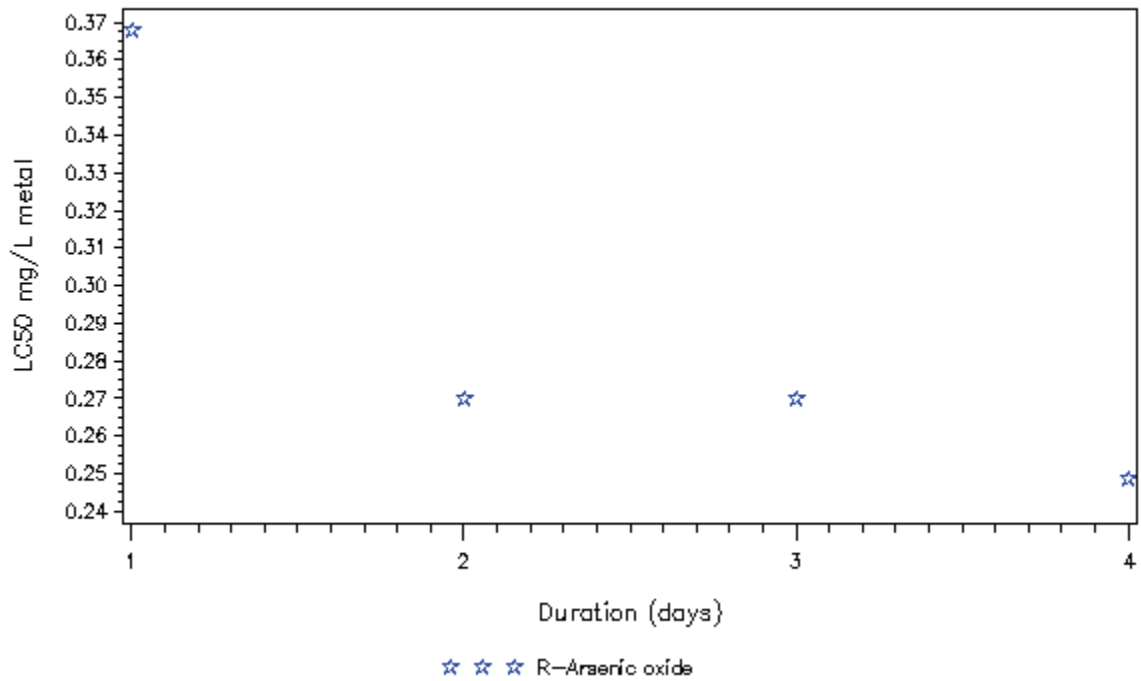


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pteronarcys californicus exposed to Arsenic at T>15C in NONE water

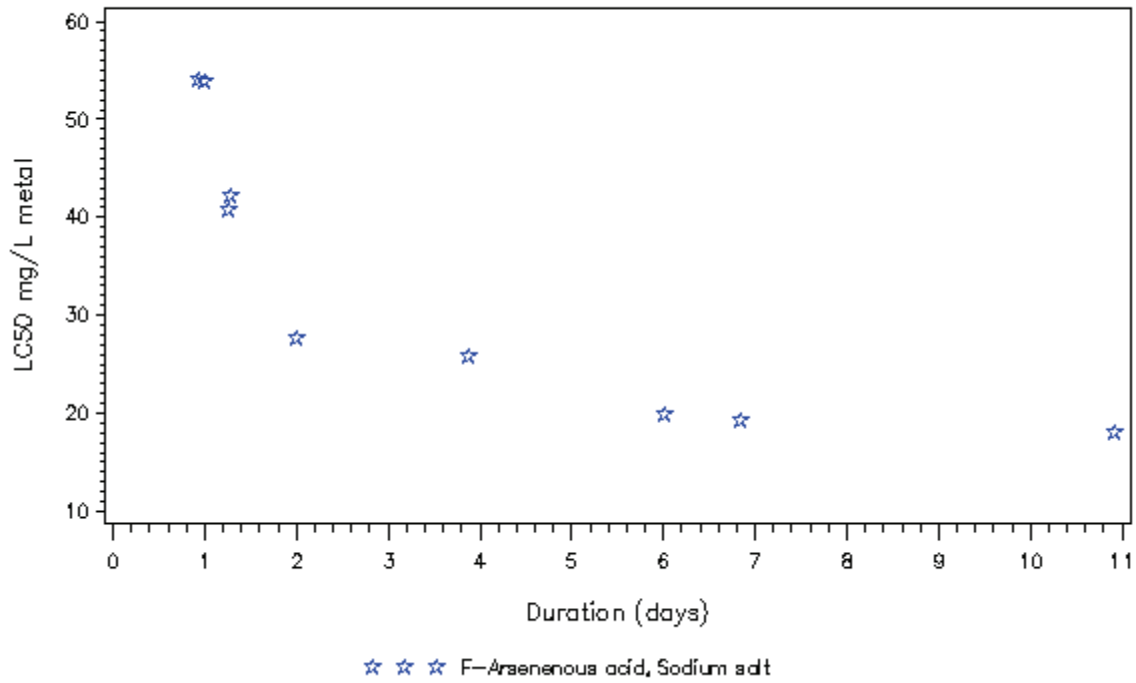


Rana hexadactyla exposed to Arsenic at T<=15C in soft water

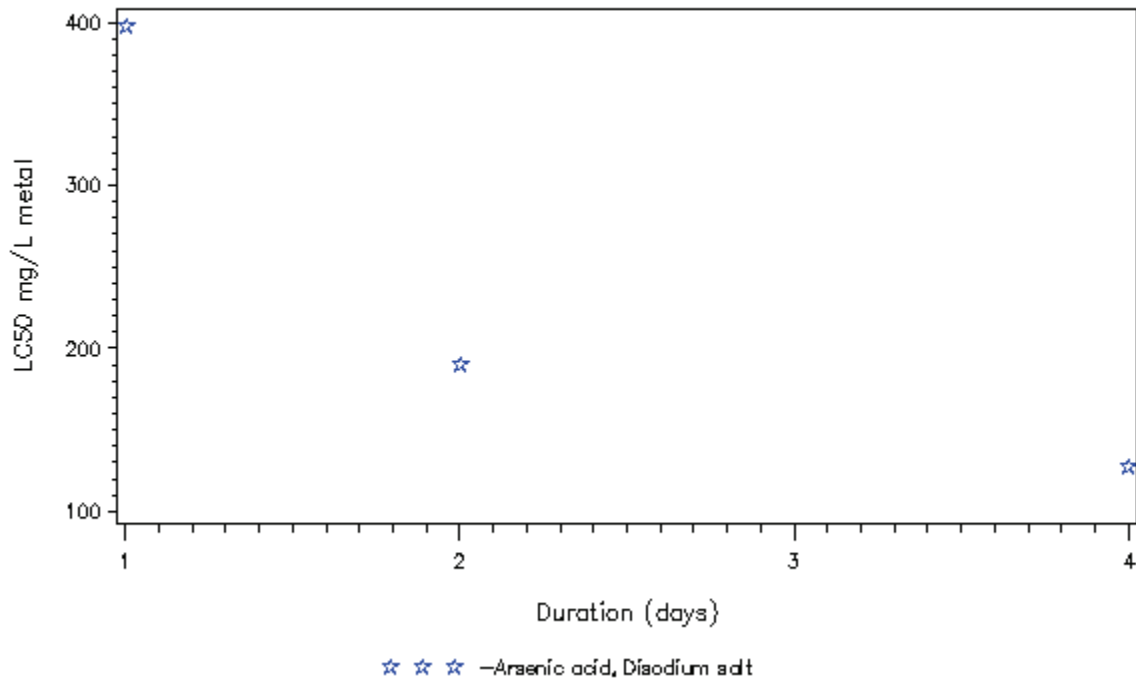


S – Static Test, F – Flowthrough Test, R –Renewal Test

Salvelinus fontinalis exposed to Arsenic at T>15C in hard water

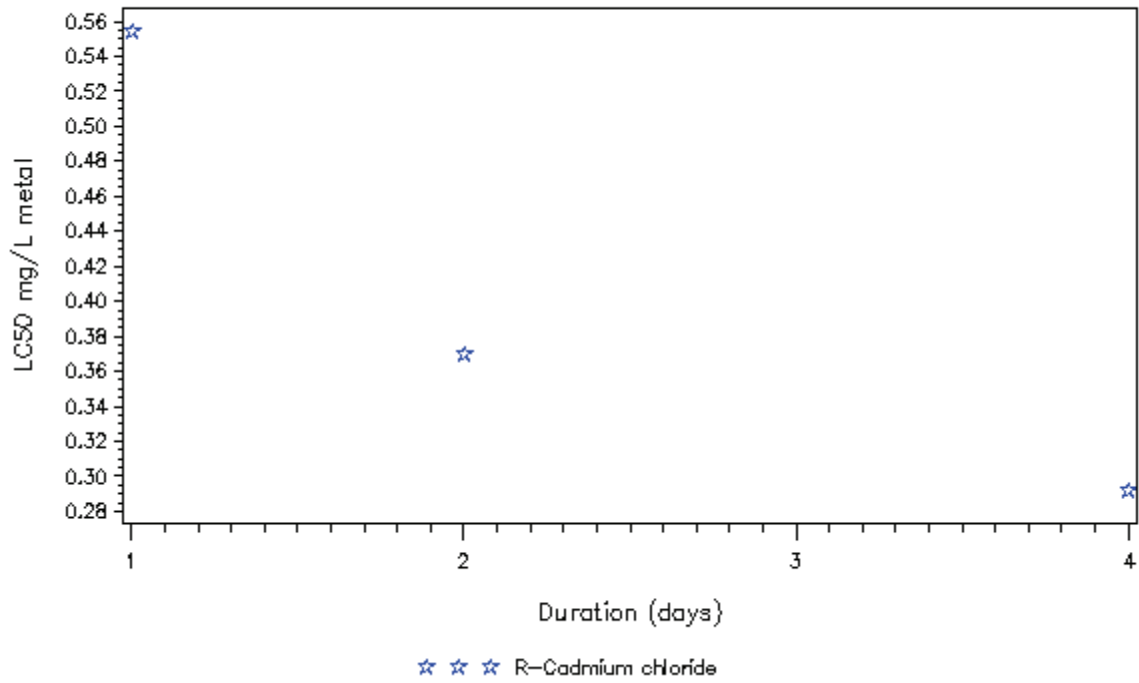


Tubifex tubifex exposed to Arsenic at T>15C in NONE water

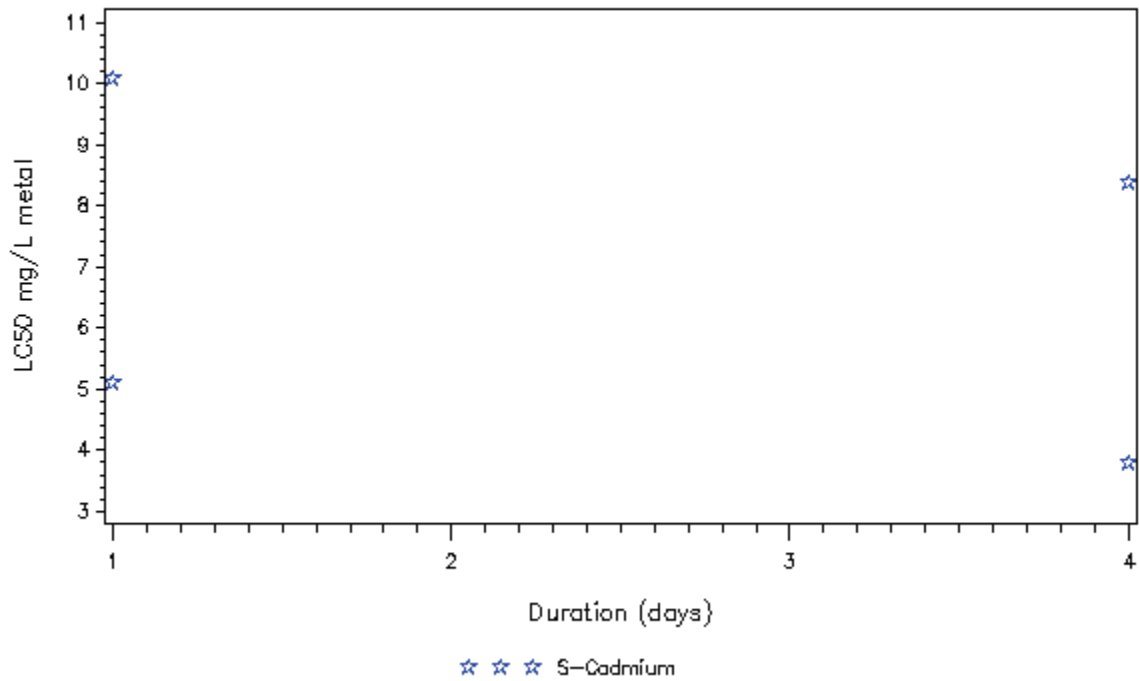


S – Static Test, F – Flowthrough Test, R –Renewal Test

Acrossocheilus paradoxus exposed to Cadmium at T>15C in soft water

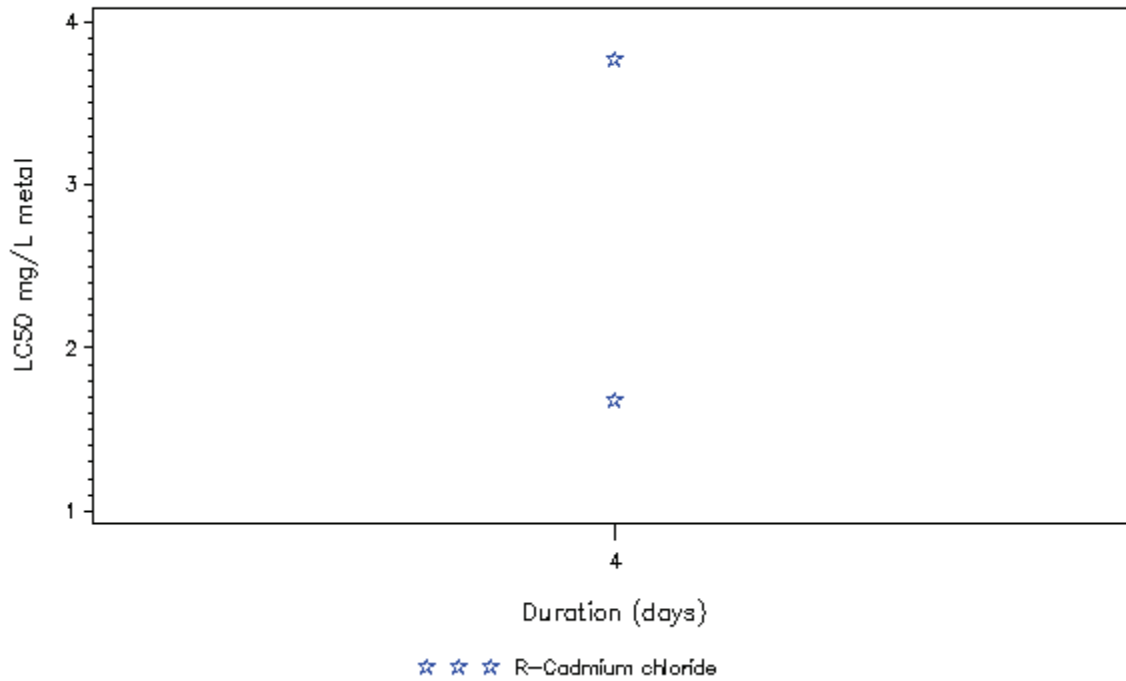


Amnicola exposed to Cadmium at T>15C in soft water

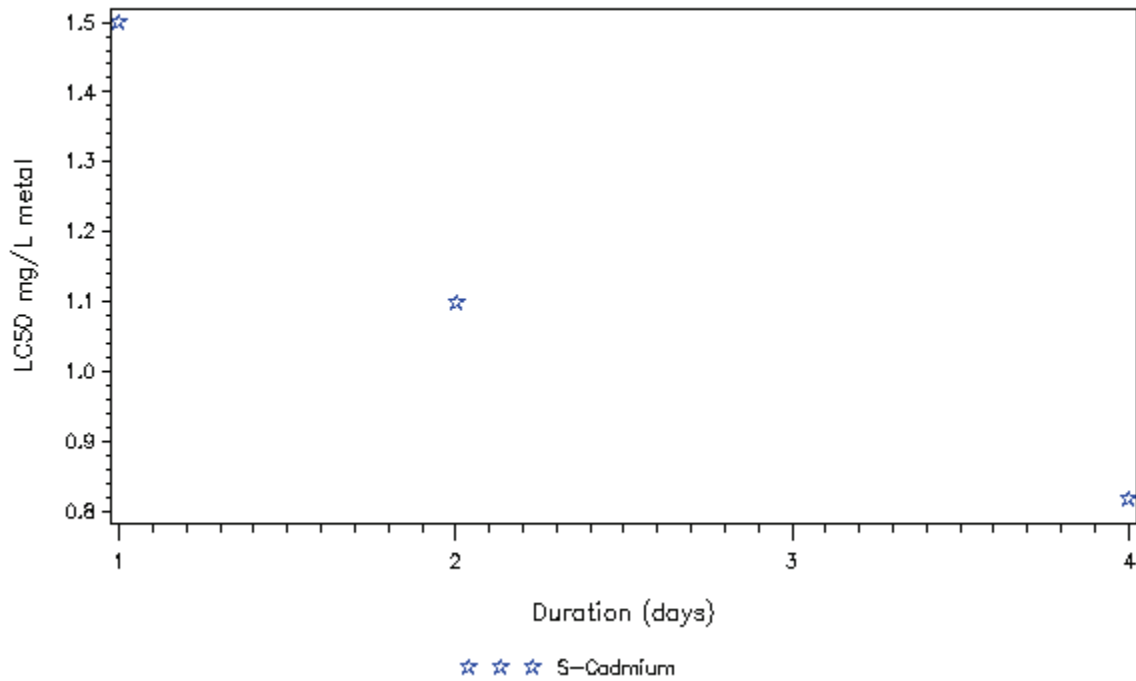


S – Static Test, F – Flowthrough Test, R –Renewal Test

Anguilla japonica exposed to Cadmium at T>15C in soft water

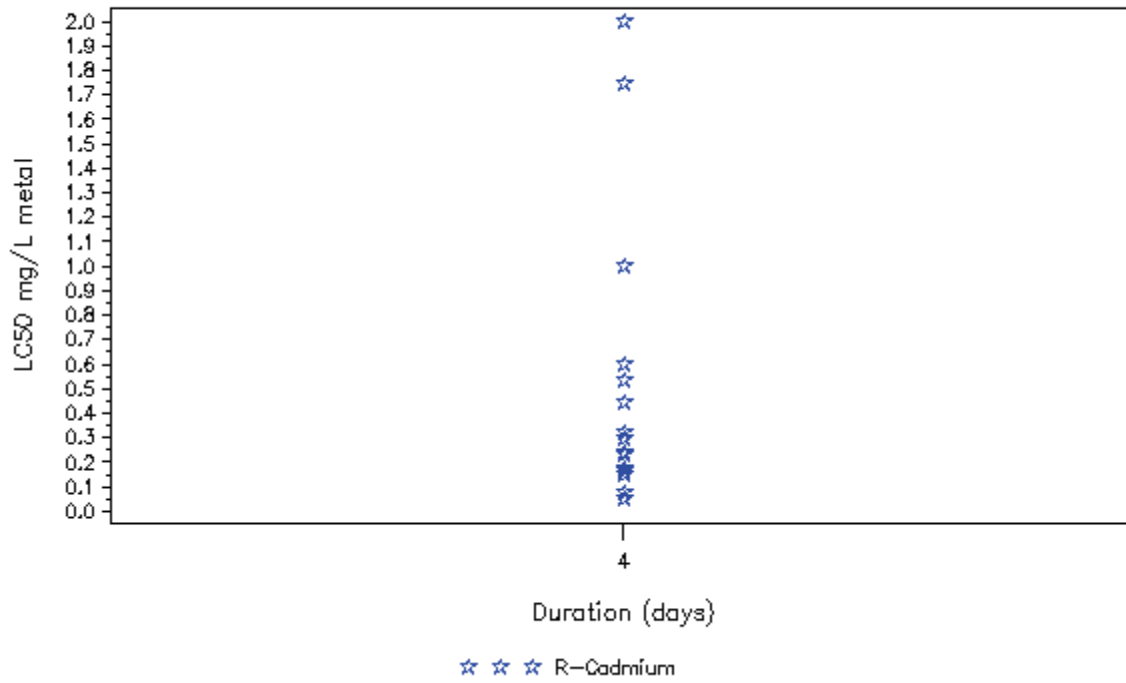


Anguilla rostrata exposed to Cadmium at T>15C in soft water

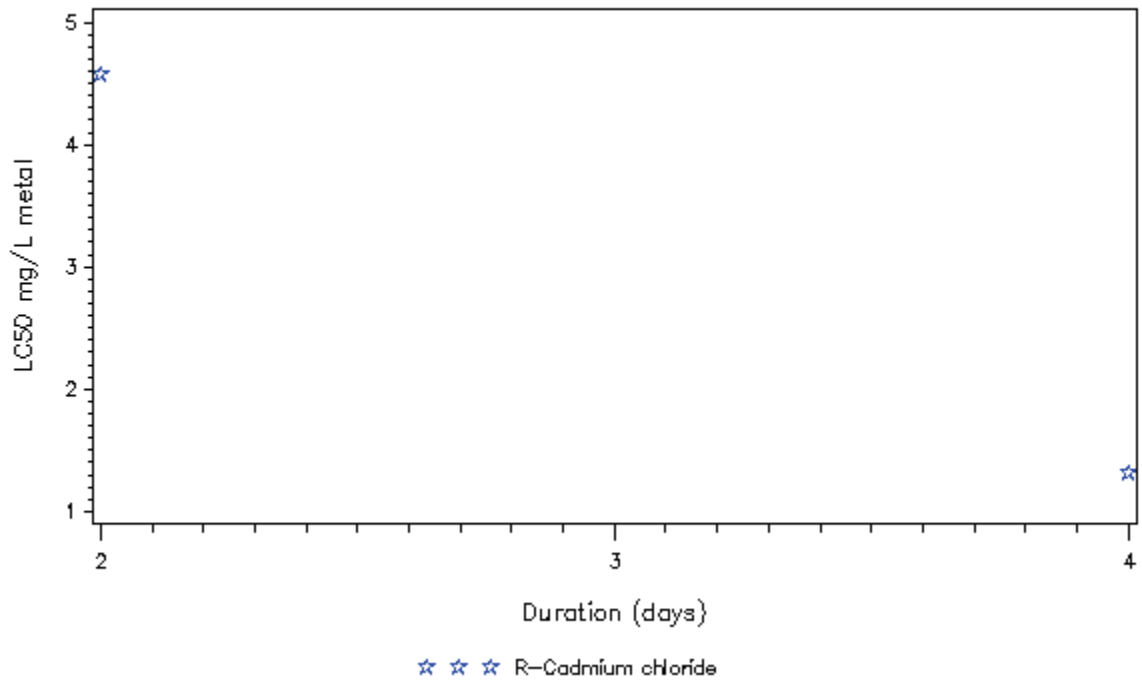


S – Static Test, F – Flowthrough Test, R –Renewal Test

Asellus aquaticus exposed to Cadmium at T<=15C in moderate water

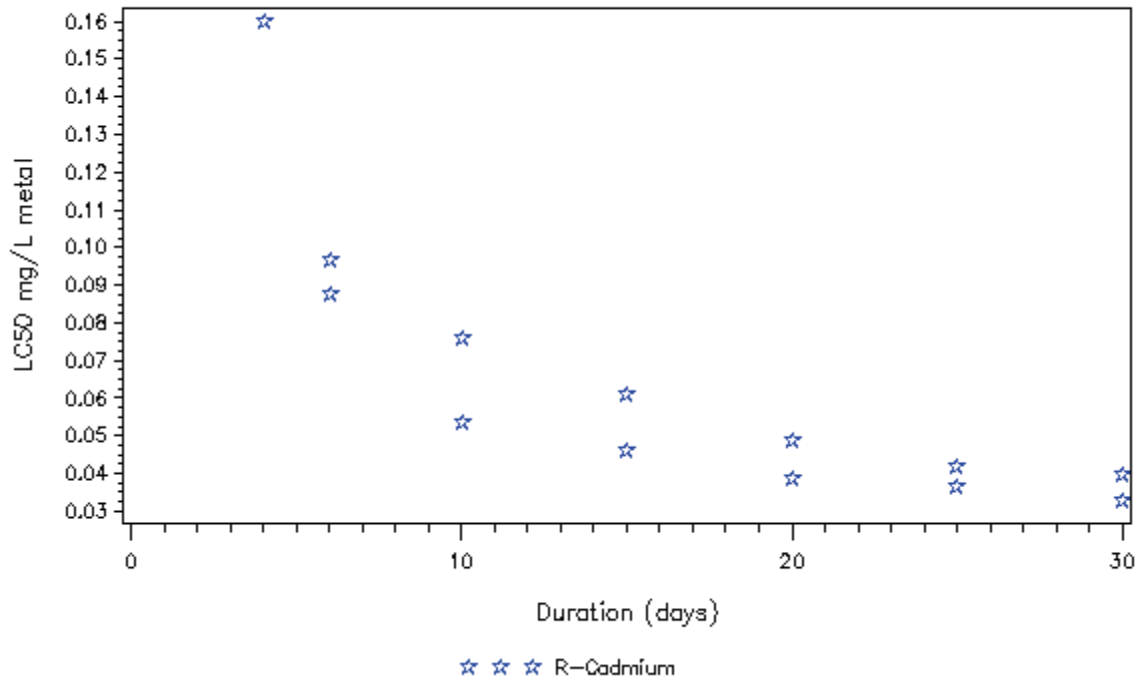


Asellus aquaticus exposed to Cadmium at T<=15C in soft water

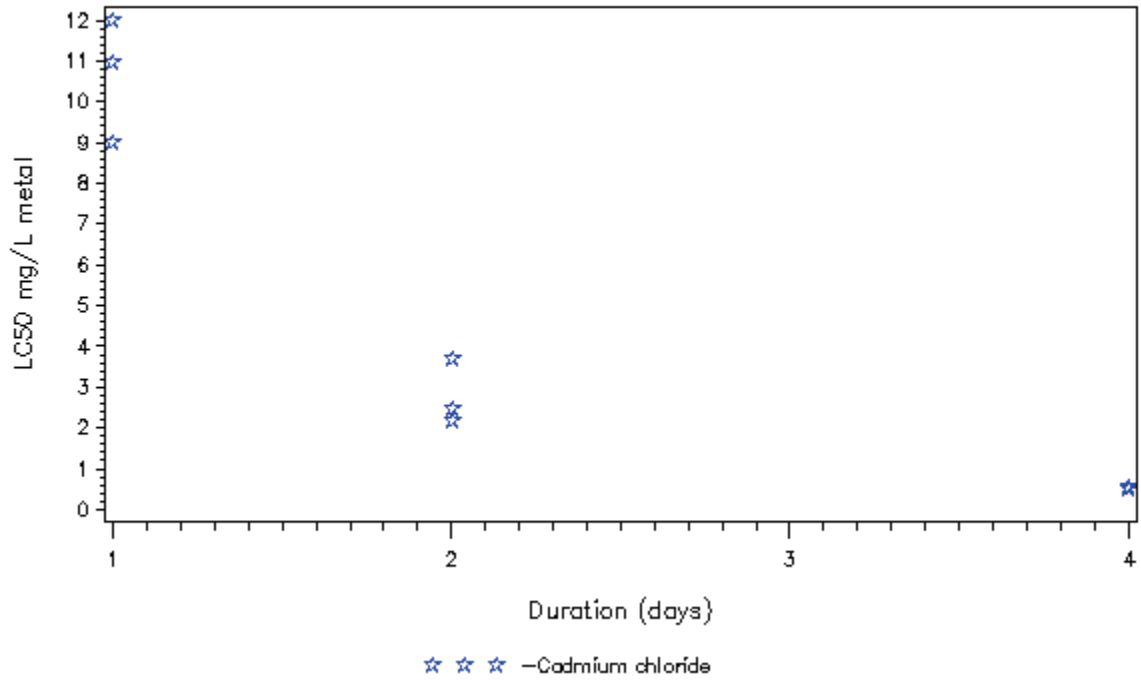


S – Static Test, F – Flowthrough Test, R –Renewal Test

Asellus aquaticus exposed to Cadmium at T>15C in moderate water

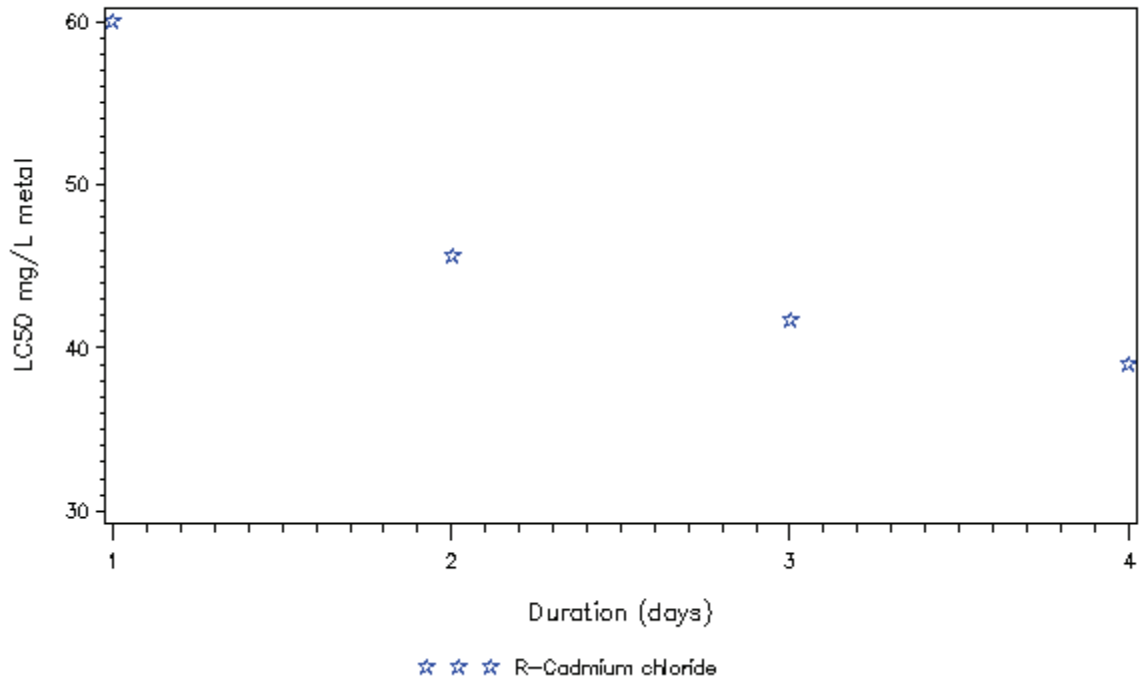


Asellus exposed to Cadmium at T<=15C in moderate water

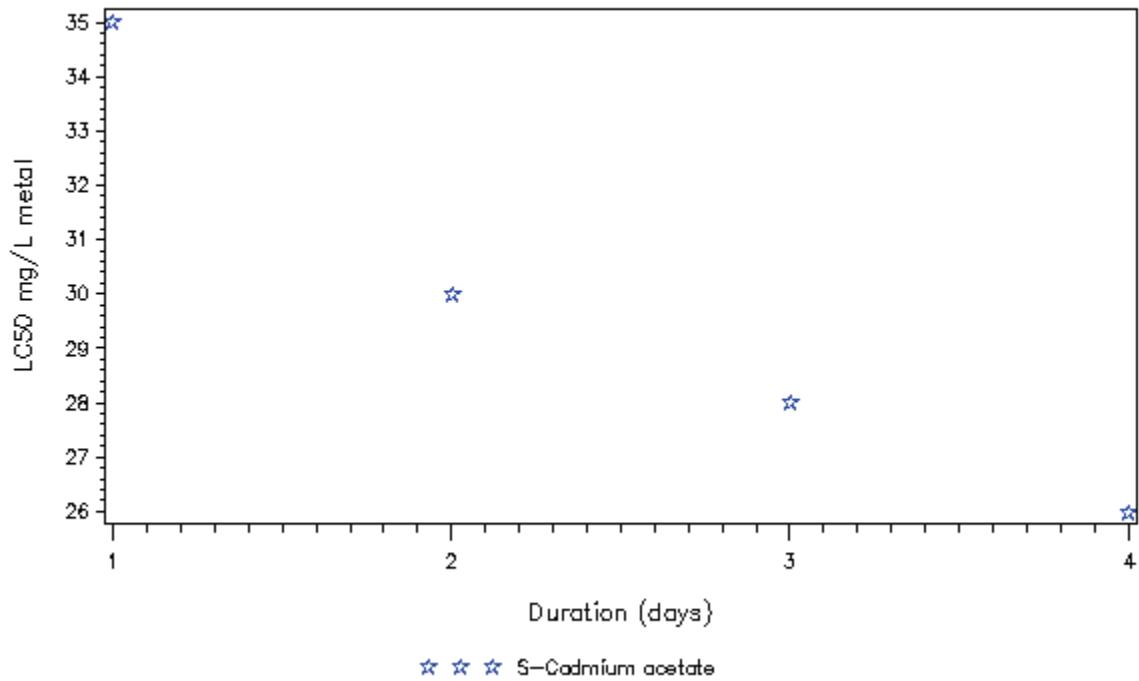


S – Static Test, F – Flowthrough Test, R –Renewal Test

Barbus arulius exposed to Cadmium at T>15C in moderate water

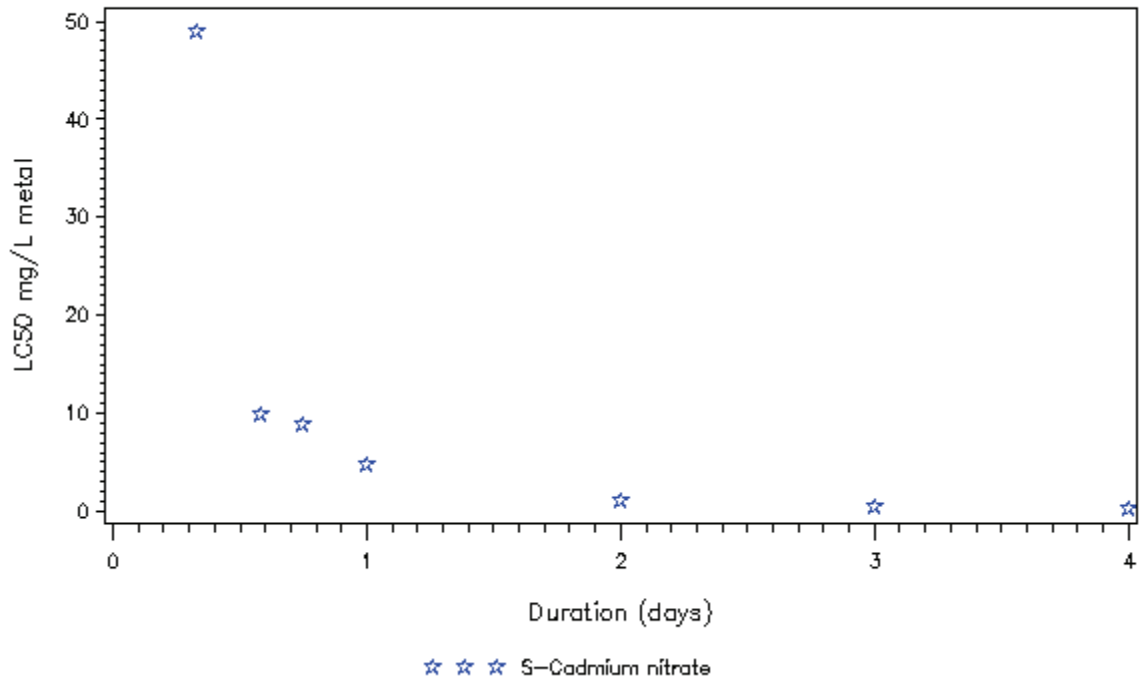


Barbus ticto exposed to Cadmium at T>15C in hard water

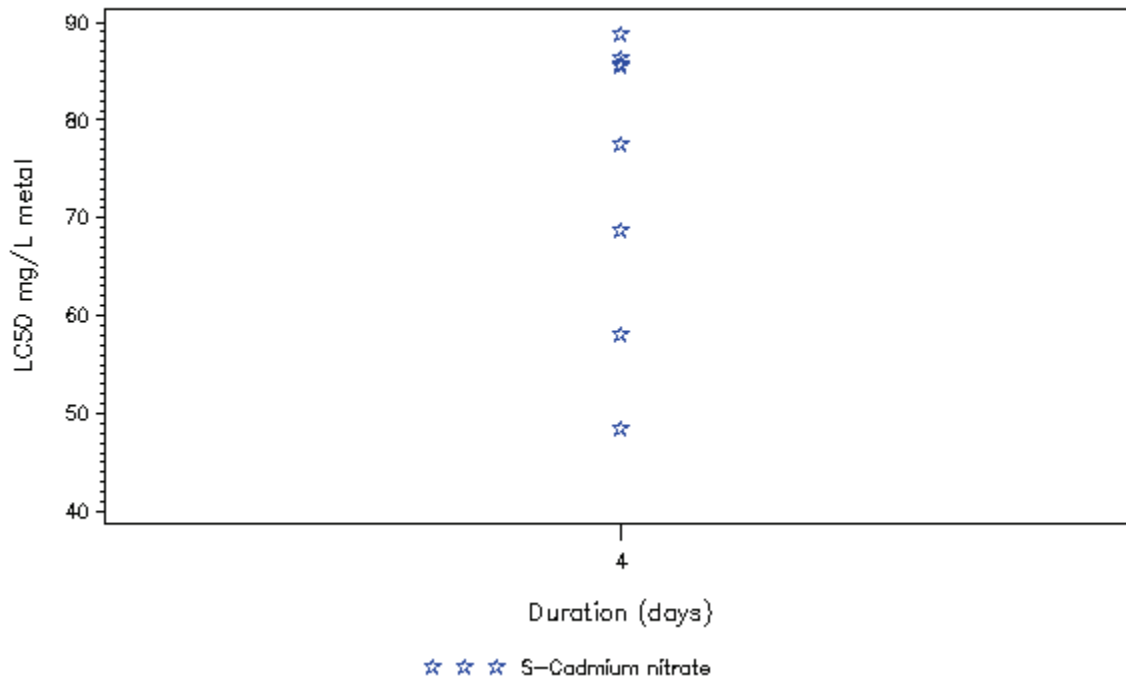


S – Static Test, F – Flowthrough Test, R –Renewal Test

Biomphalaria glabrata exposed to Cadmium at T>15C in moderate water

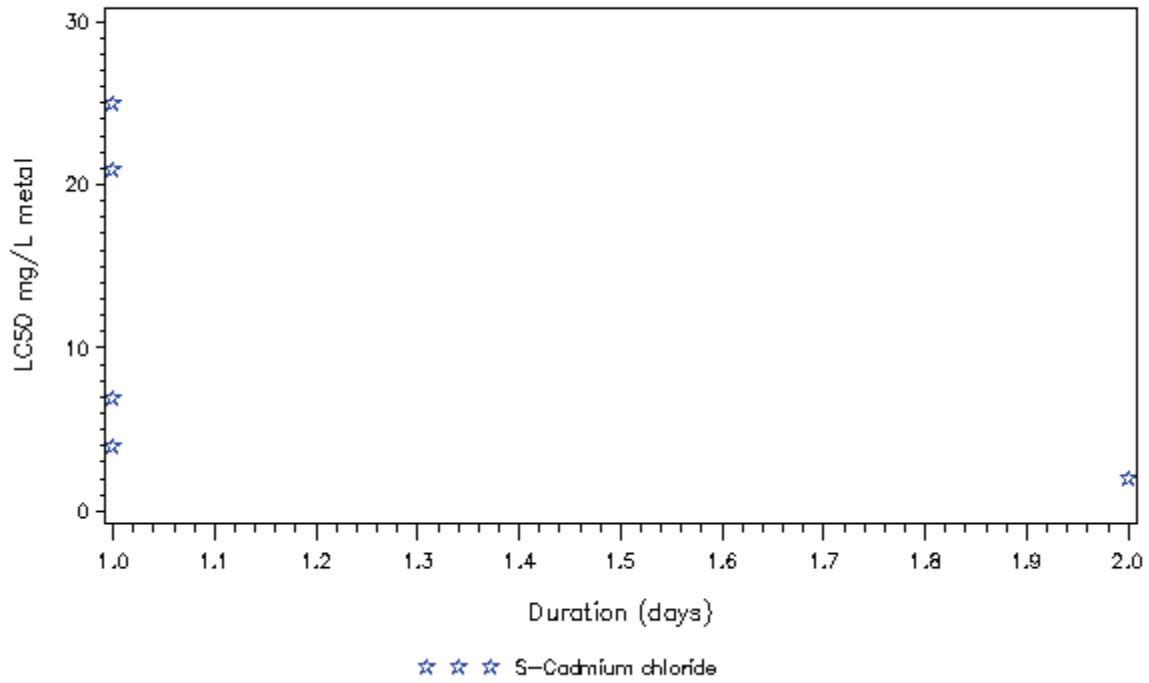


Branchiura sowerbyi exposed to Cadmium at T>15C in very hard water

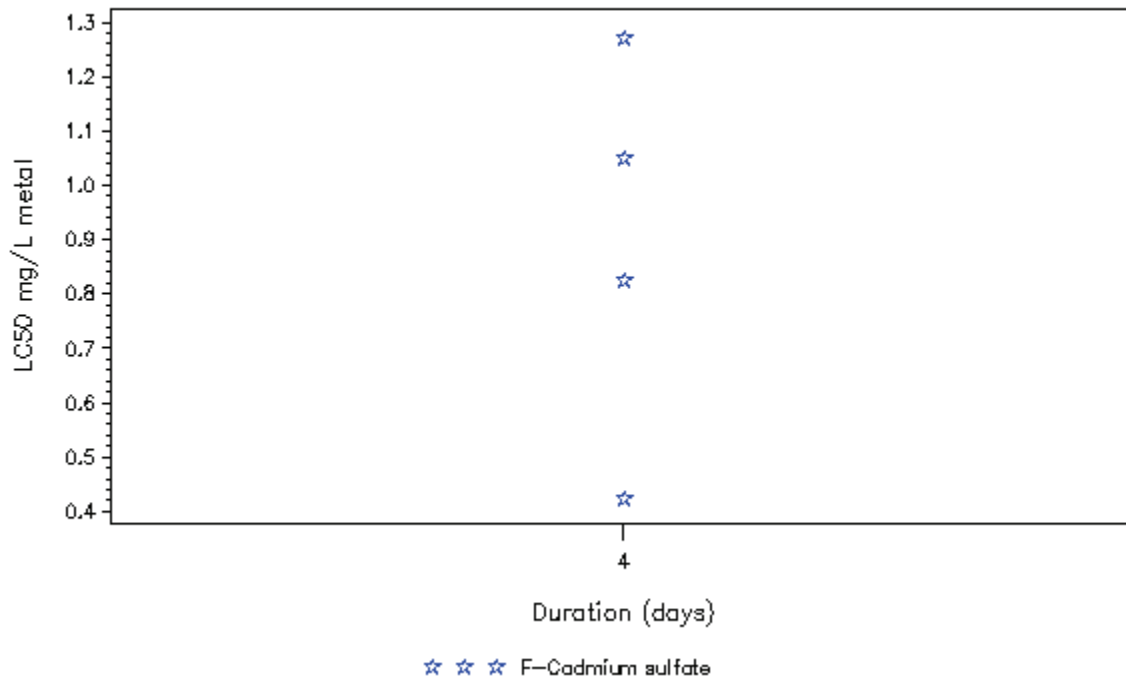


S – Static Test, F – Flowthrough Test, R –Renewal Test

Caenorhabditis elegans exposed to Cadmium at T>15C in moderate water

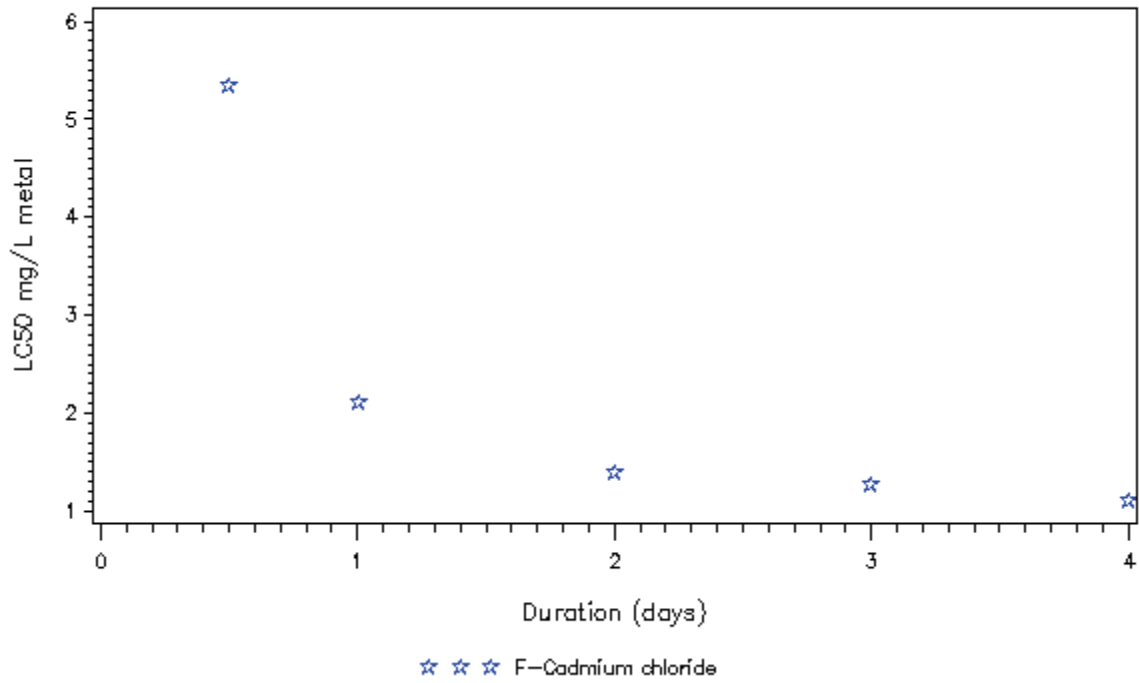


Catostomus commersoni exposed to Cadmium at T<=15C in very hard water

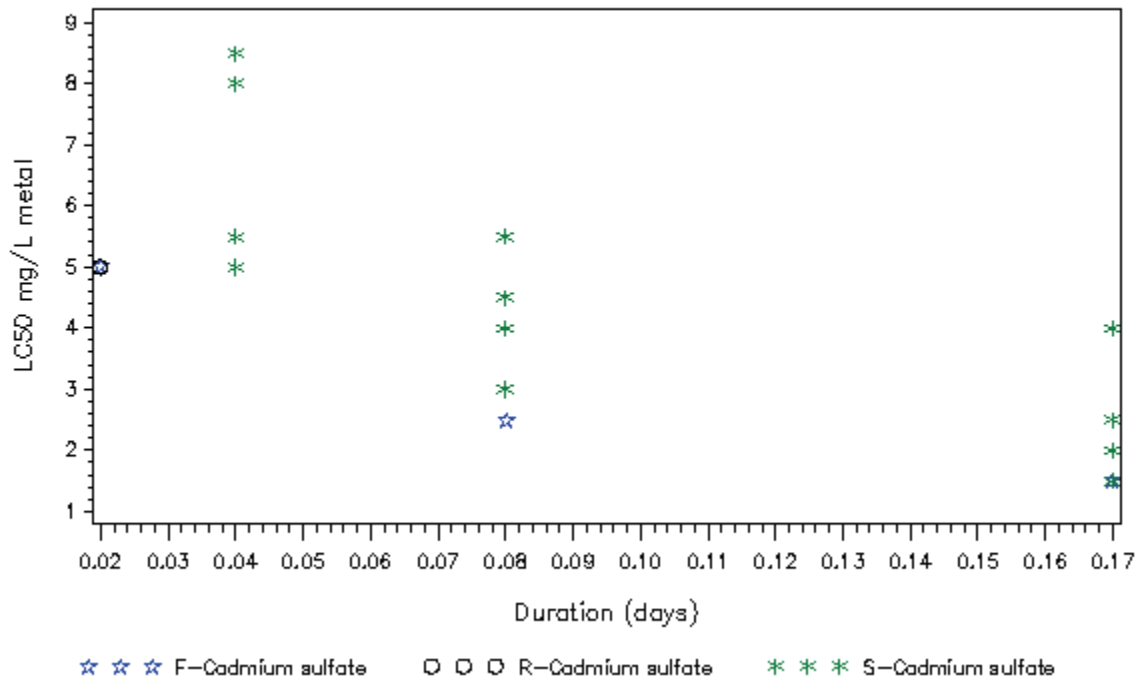


S – Static Test, F – Flowthrough Test, R –Renewal Test

Catostomus commersoni exposed to Cadmium at T<=15C in very soft water

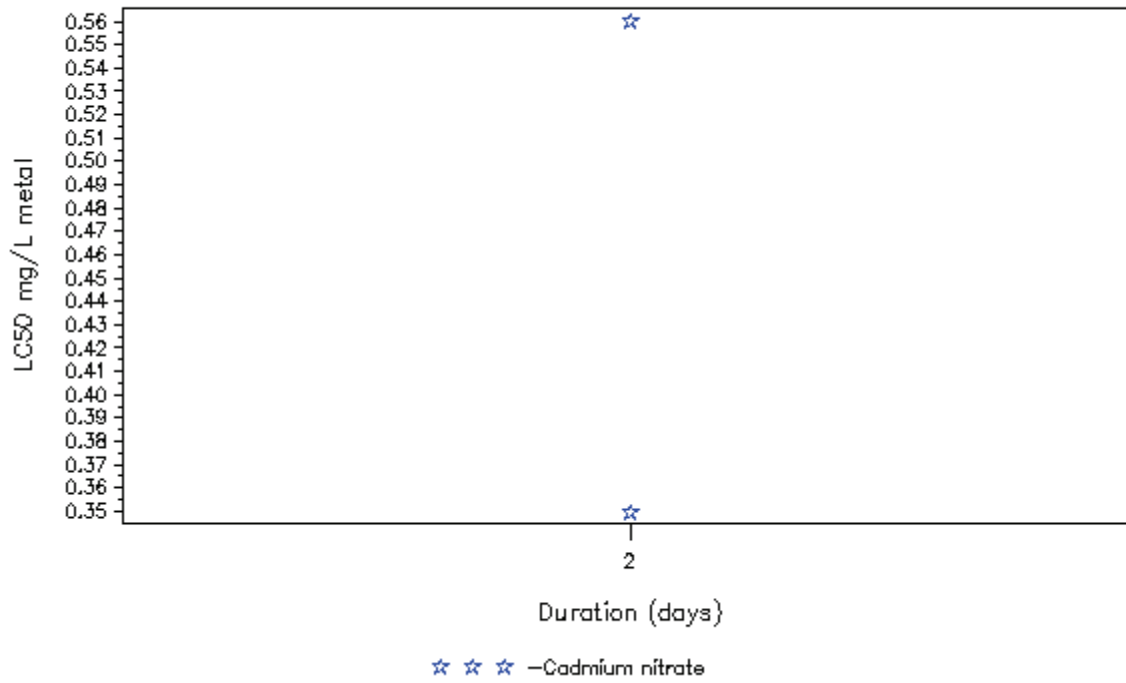


Ceriodaphnia dubia exposed to Cadmium at T>15C in hard water

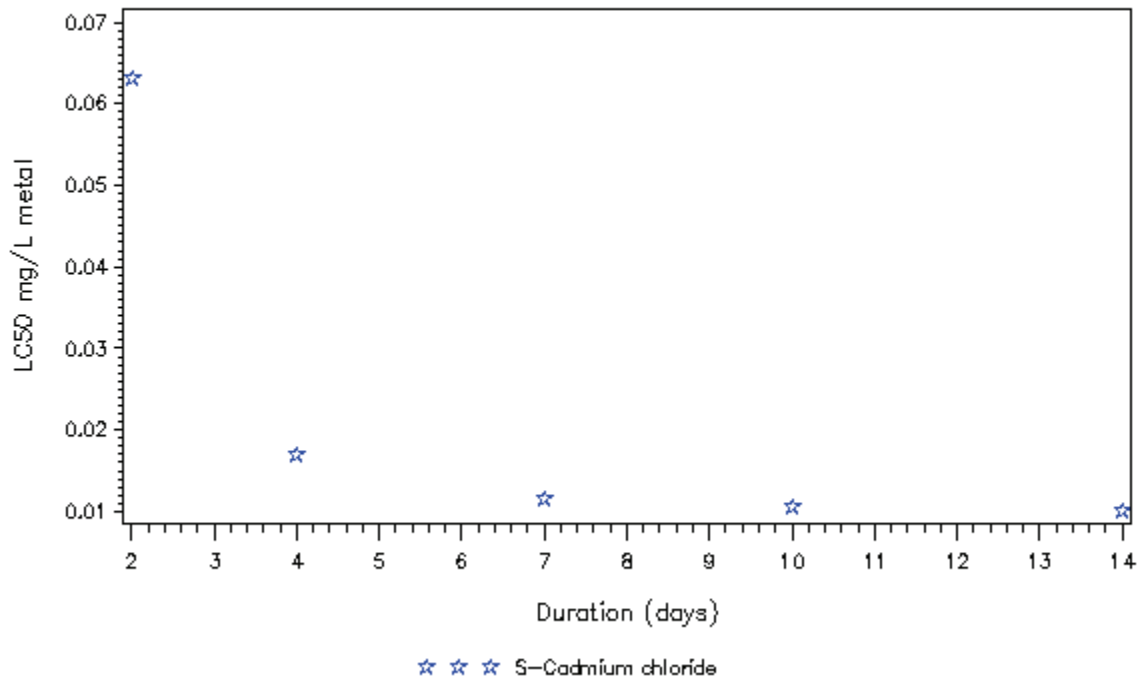


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ceriodaphnia dubia exposed to Cadmium at T>15C in very hard water

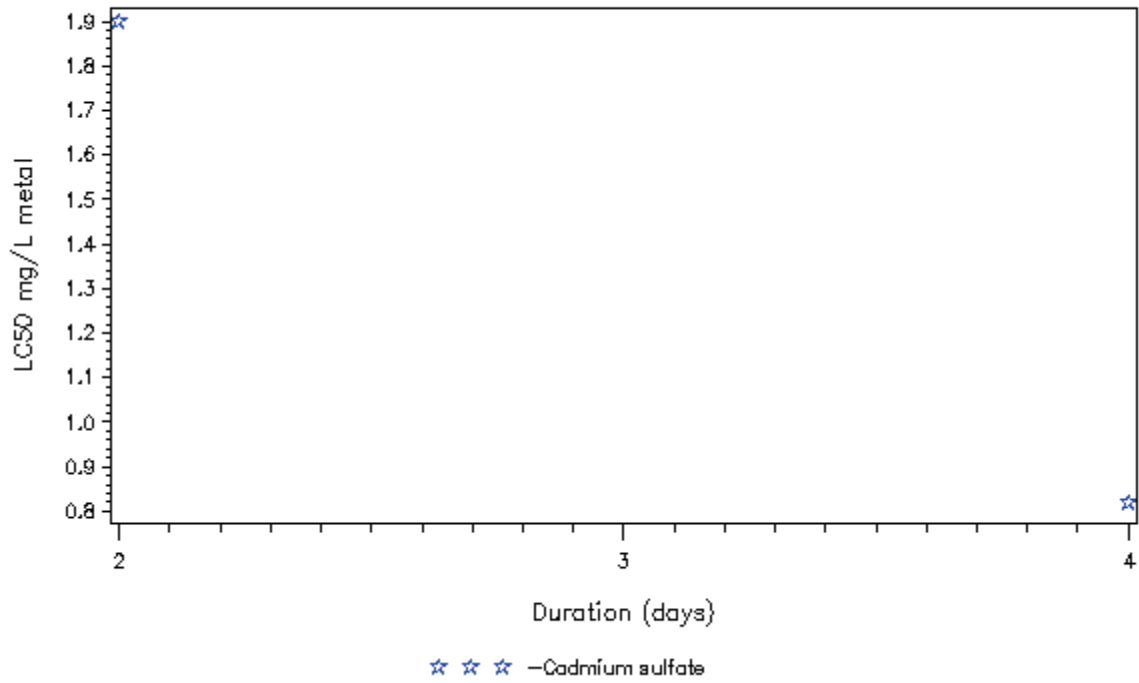


Ceriodaphnia dubia exposed to Cadmium at T>15C in very soft water

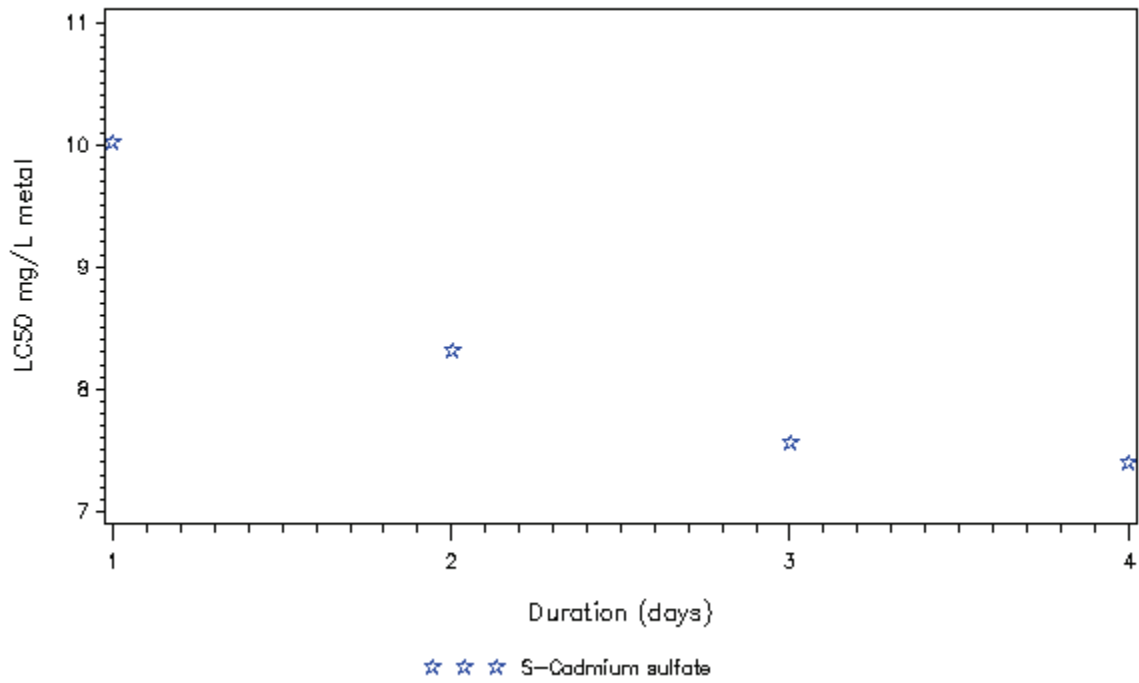


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ceriodaphnia reticulata exposed to Cadmium at T>15C in soft water

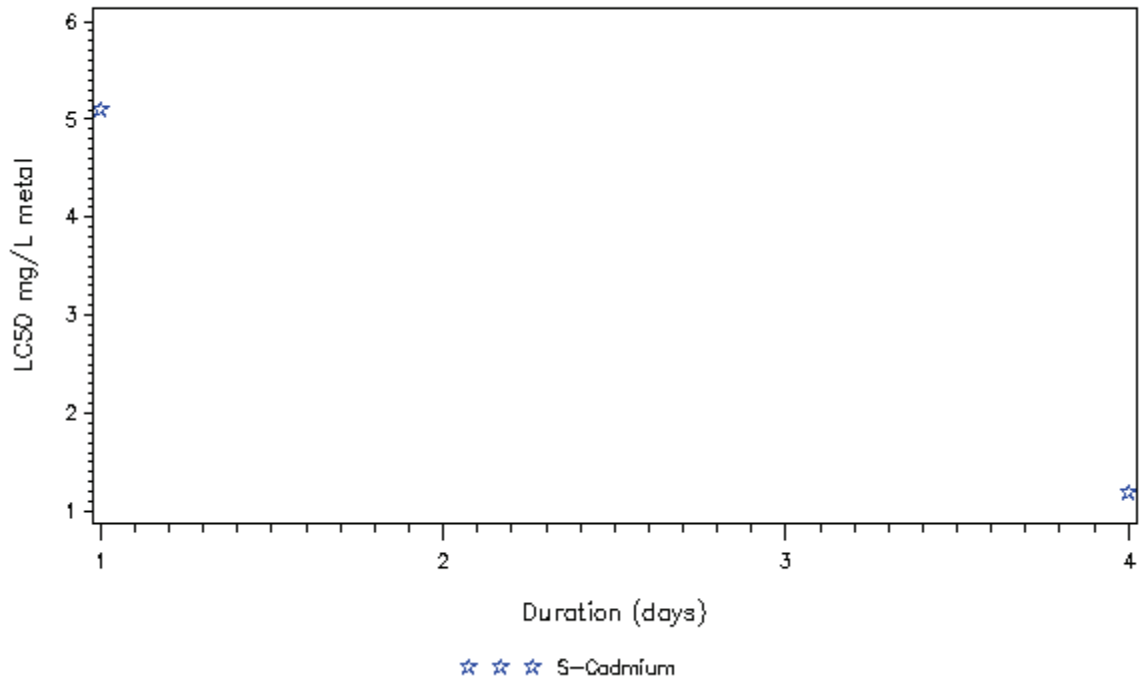


Channa punctata exposed to Cadmium at T>15C in hard water

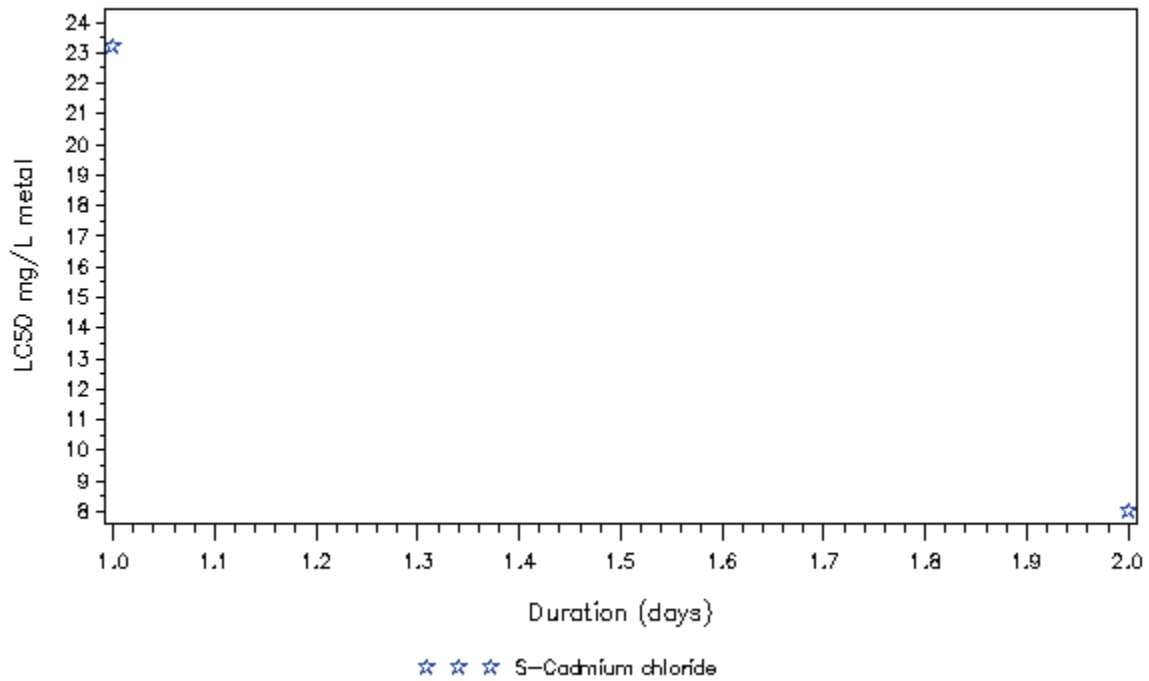


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus exposed to Cadmium at T>15C in soft water

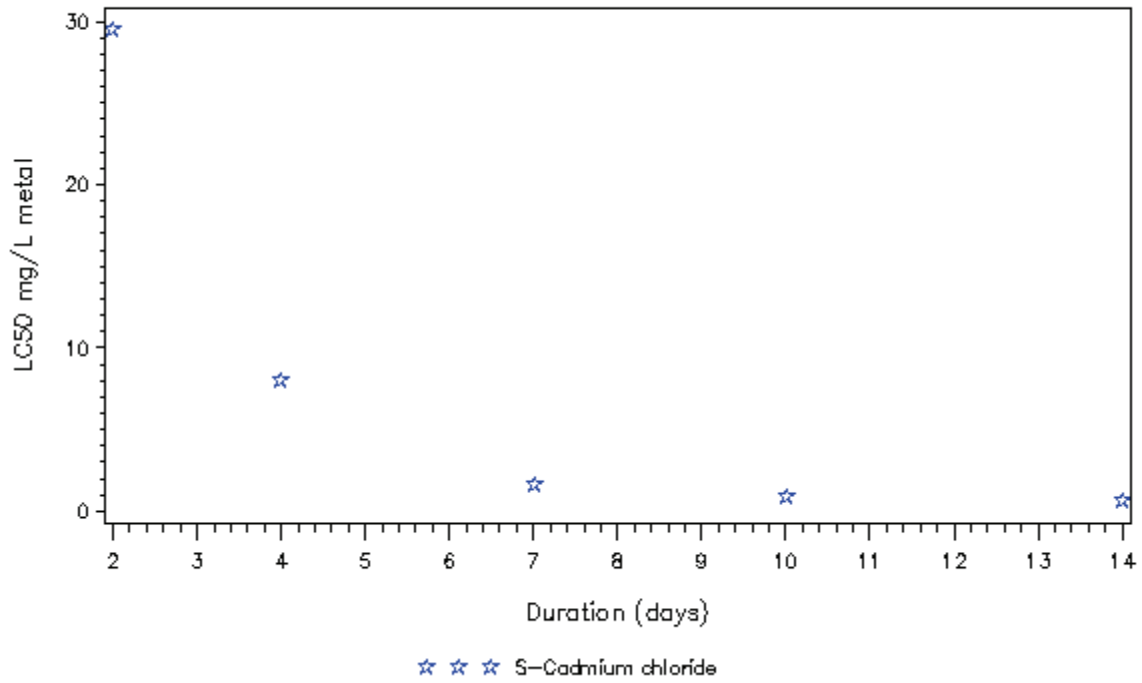


Chironomus tentans exposed to Cadmium at T<=15C in soft water

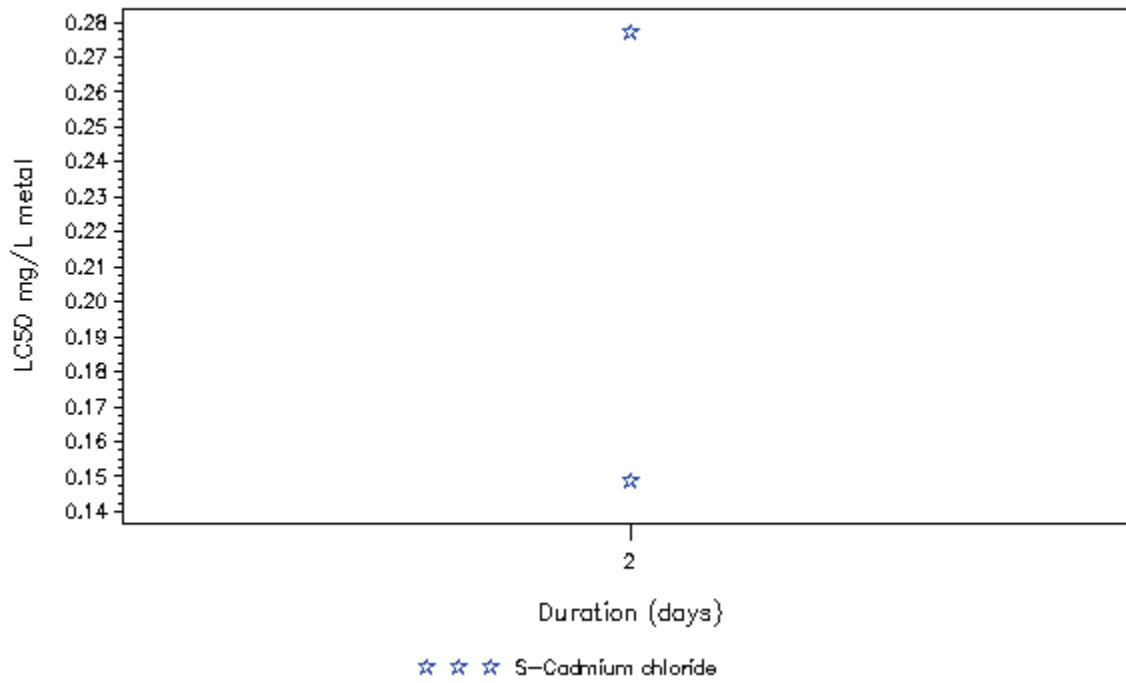


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus tentans exposed to Cadmium at T>15C in very soft water

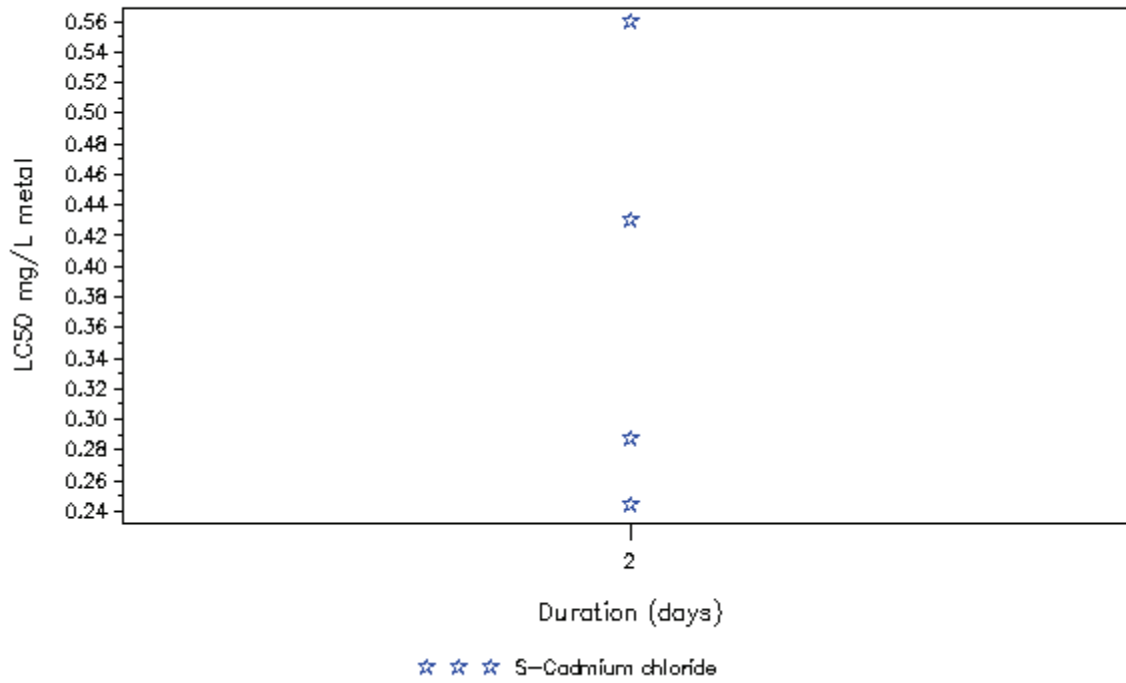


Chydorus sphaericus exposed to Cadmium at T>15C in moderate water

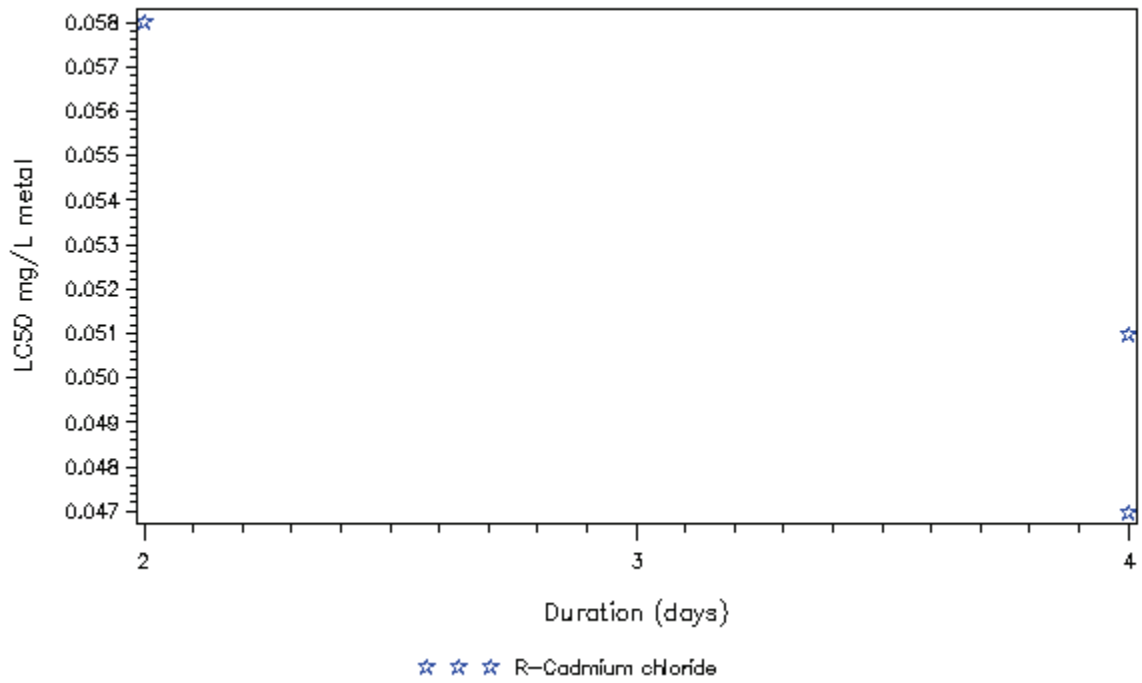


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chydorus sphaericus exposed to Cadmium at T>15C in very soft water

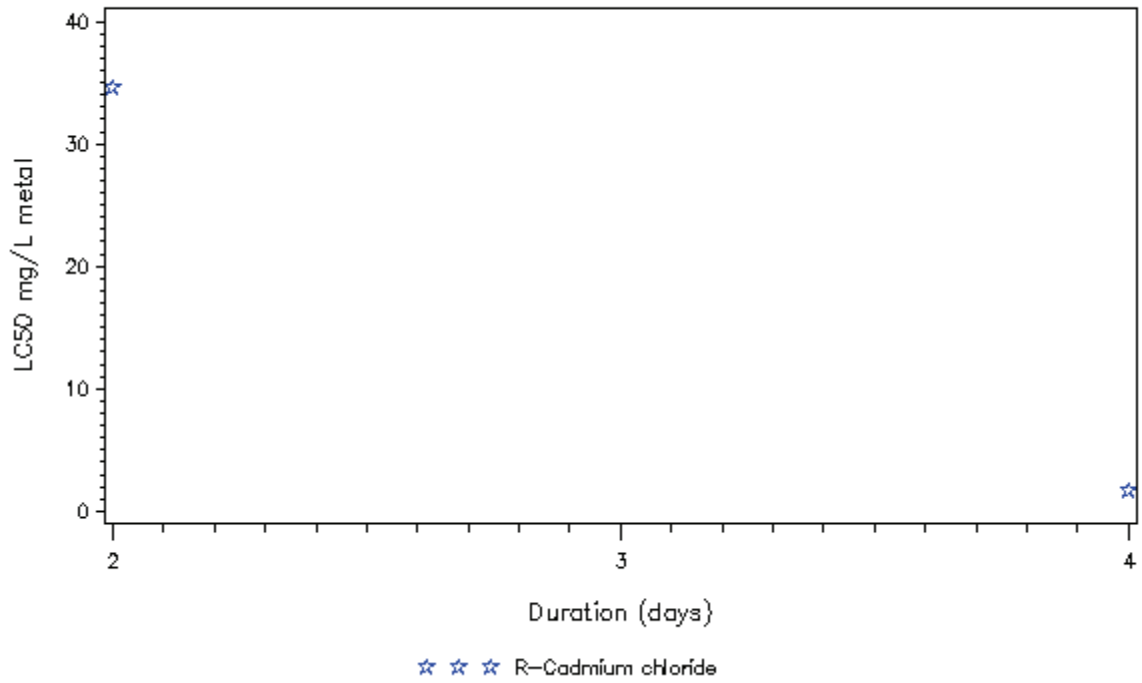


Copepoda exposed to Cadmium at T>15C in soft water

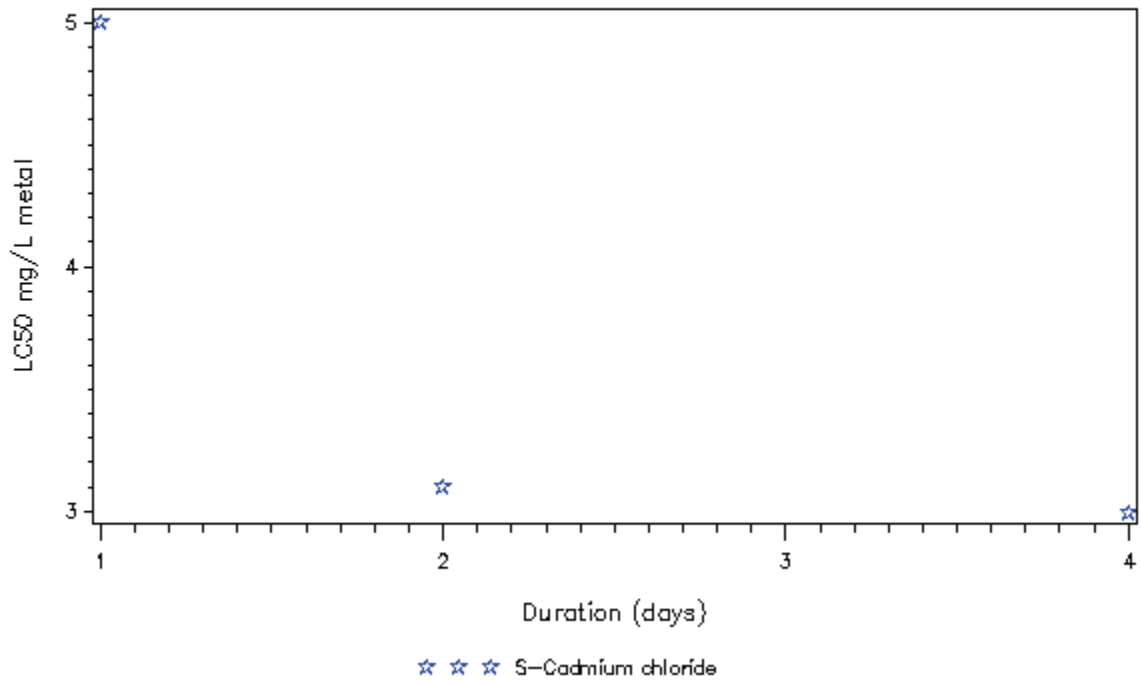


S – Static Test, F – Flowthrough Test, R –Renewal Test

Crangonyx pseudogracilis exposed to Cadmium at T<=15C in soft water

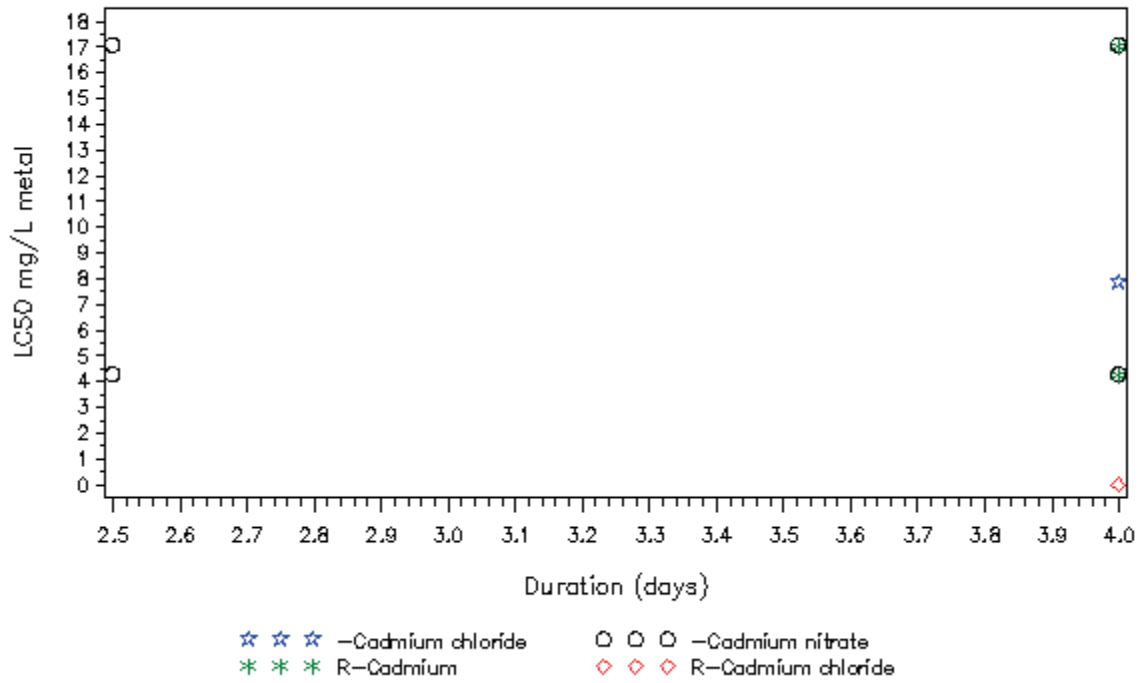


Cyprinidae exposed to Cadmium at T>15C in very soft water

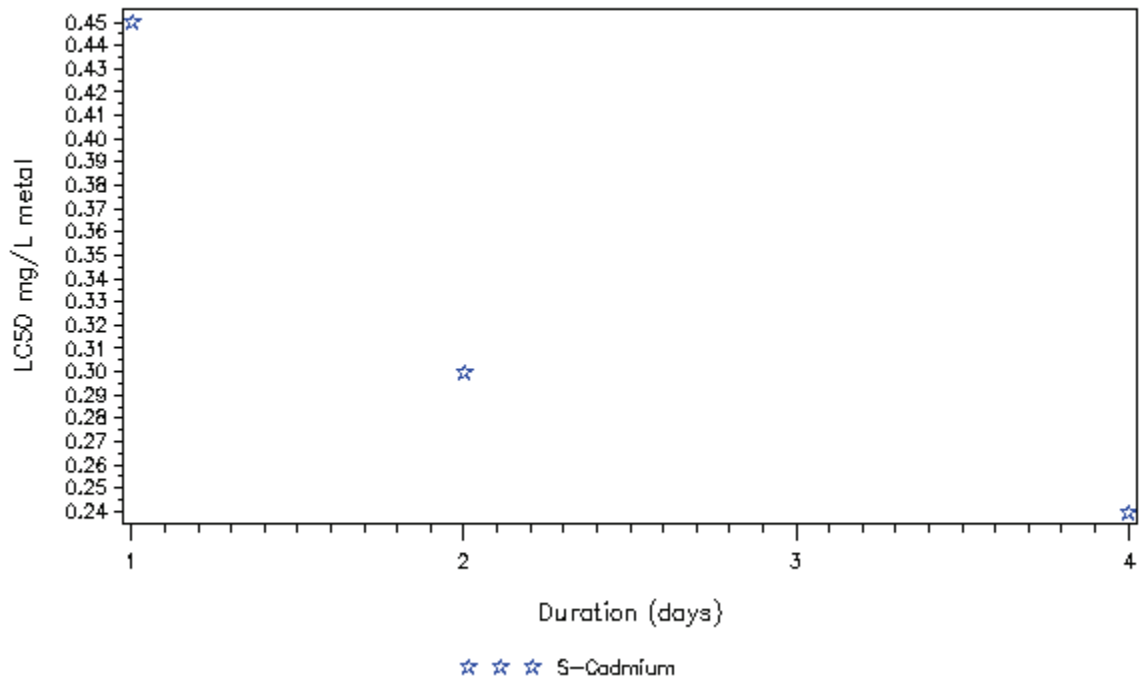


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Cadmium at T>15C in moderate water

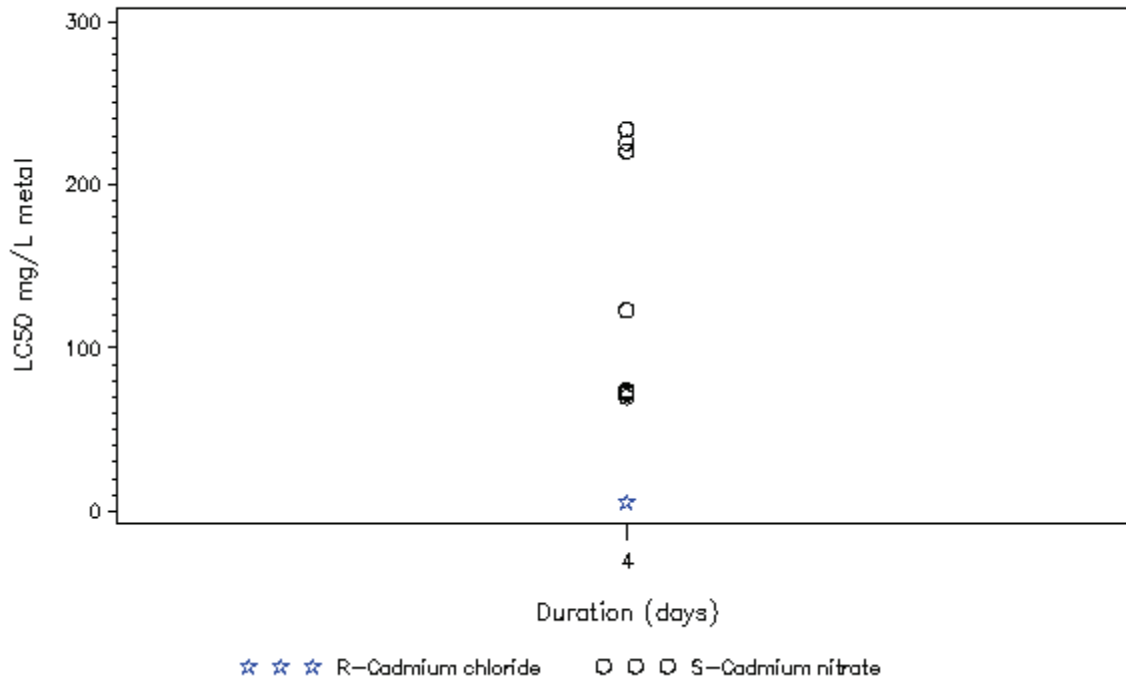


Cyprinus carpio exposed to Cadmium at T>15C in soft water

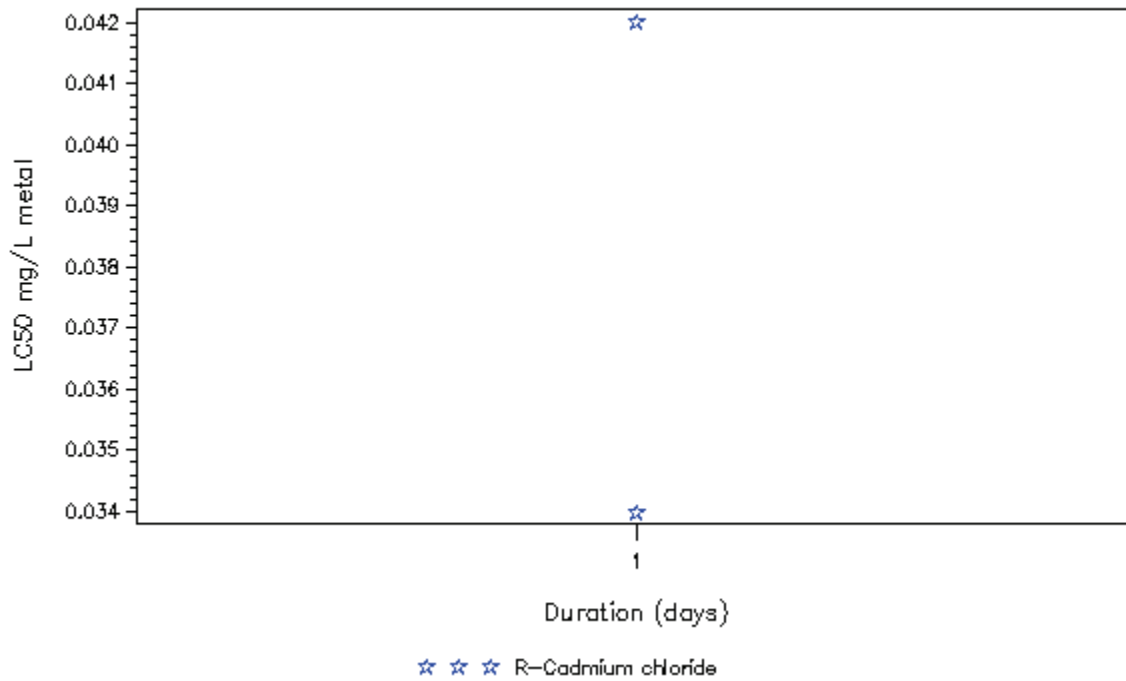


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Cadmium at T>15C in very hard water

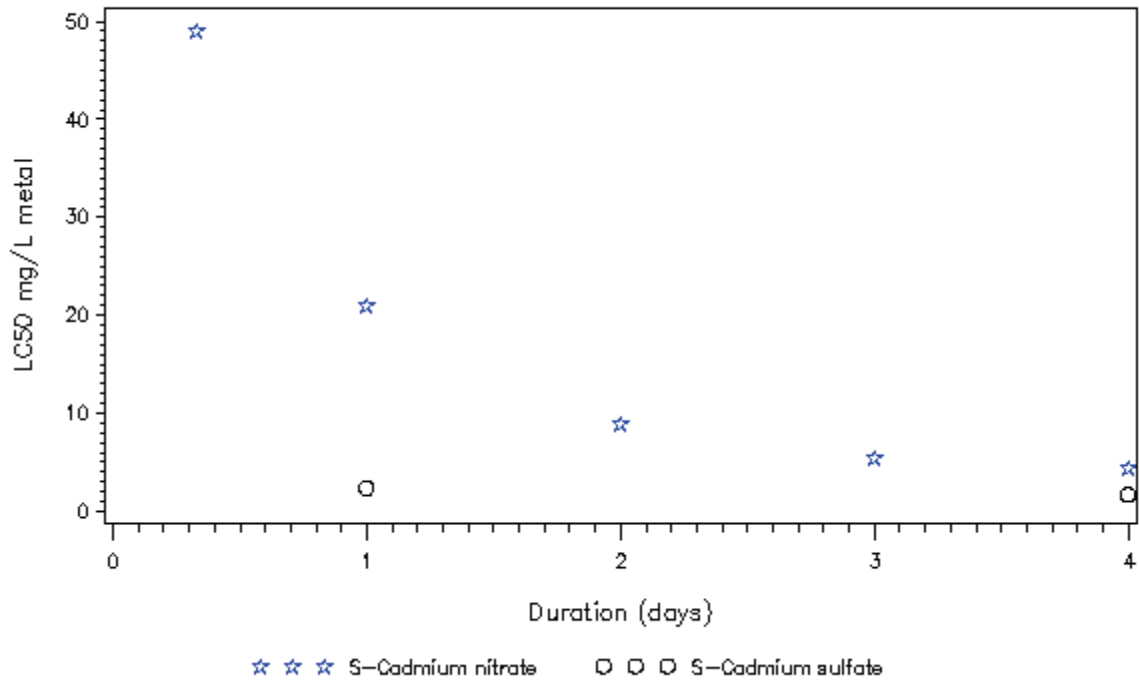


Cypris exposed to Cadmium at T>15C in soft water

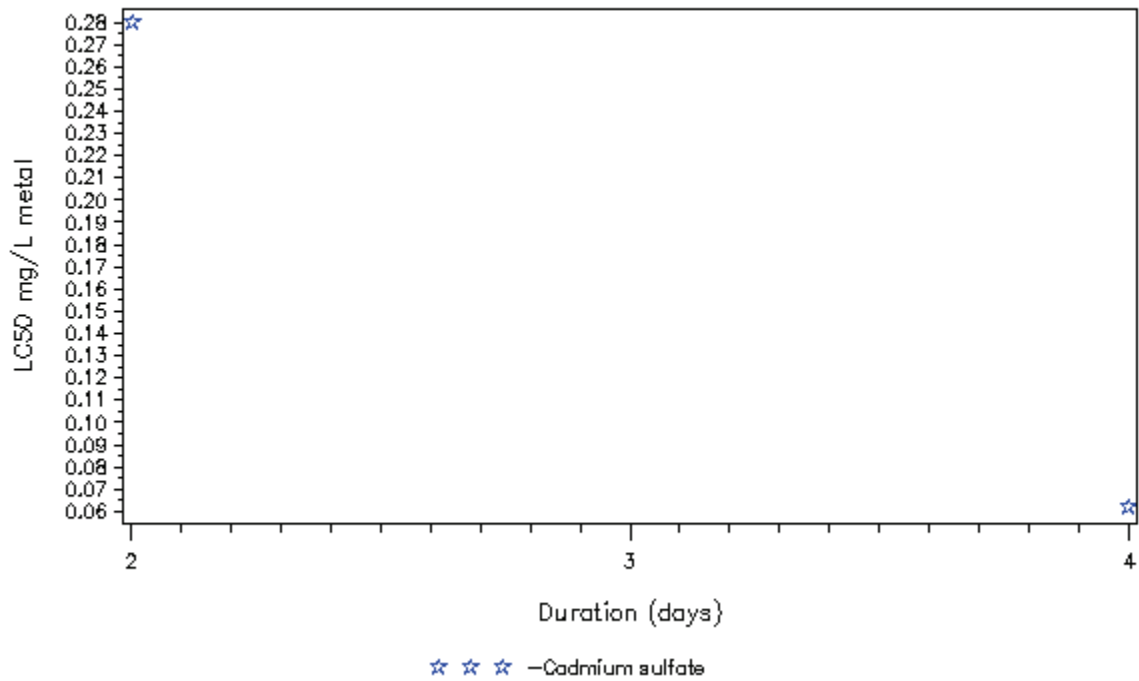


S – Static Test, F – Flowthrough Test, R –Renewal Test

Danio rerio exposed to Cadmium at T>15C in moderate water

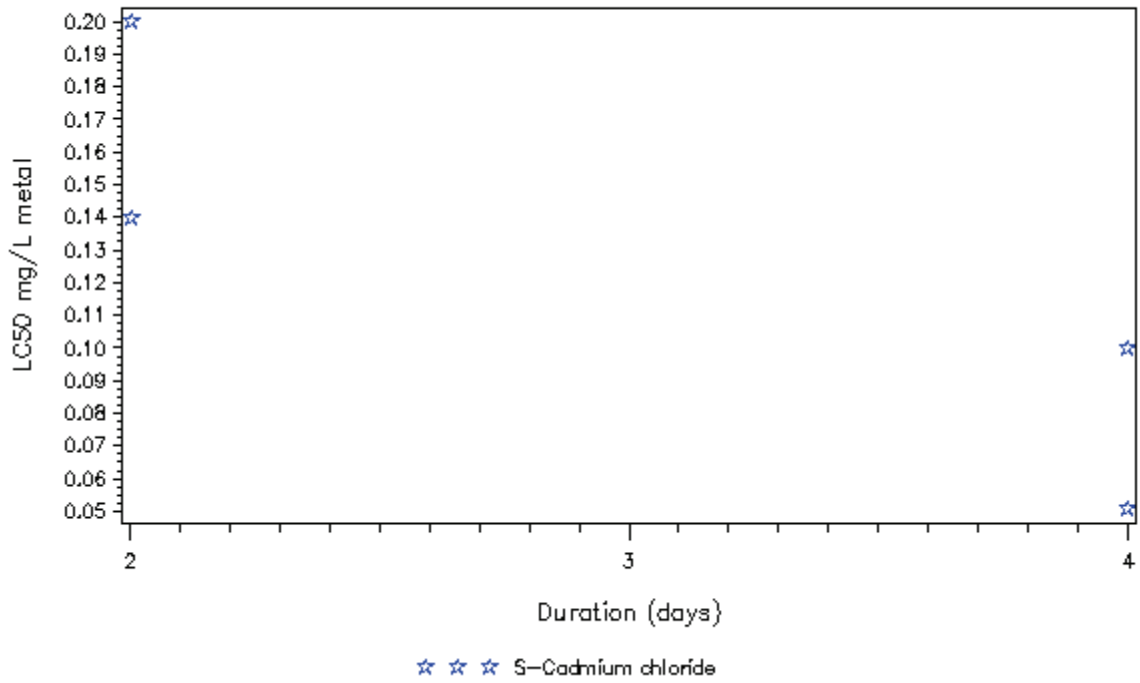


Daphnia carinata exposed to Cadmium at T>15C in soft water

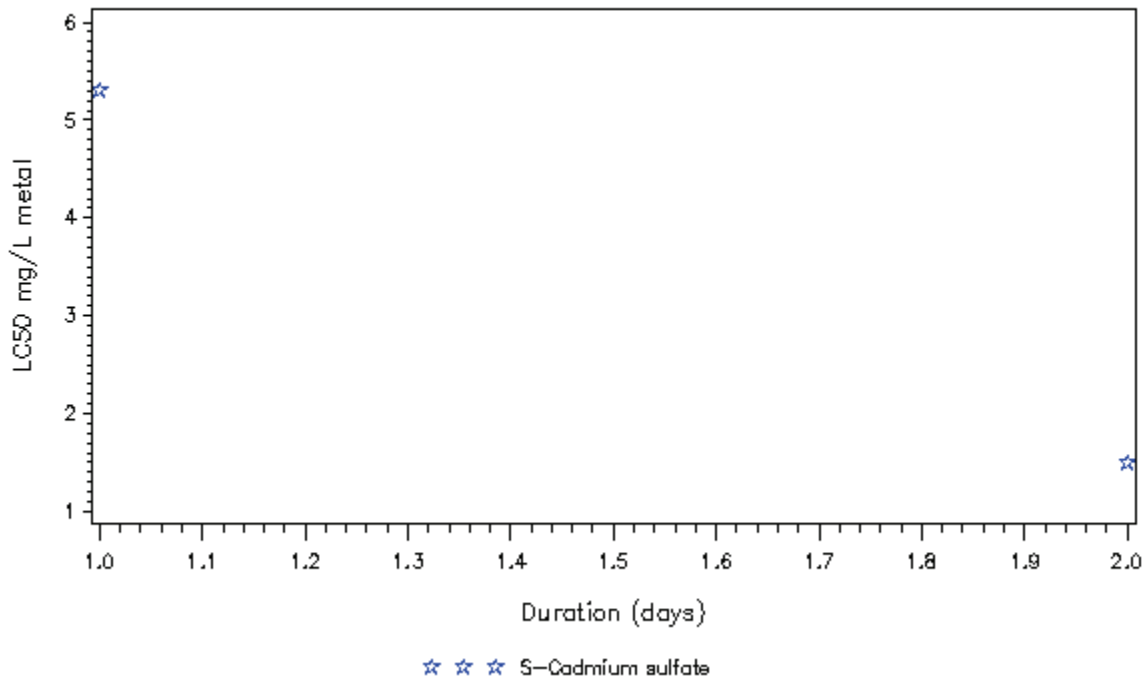


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Cadmium at T<=15C in moderate water

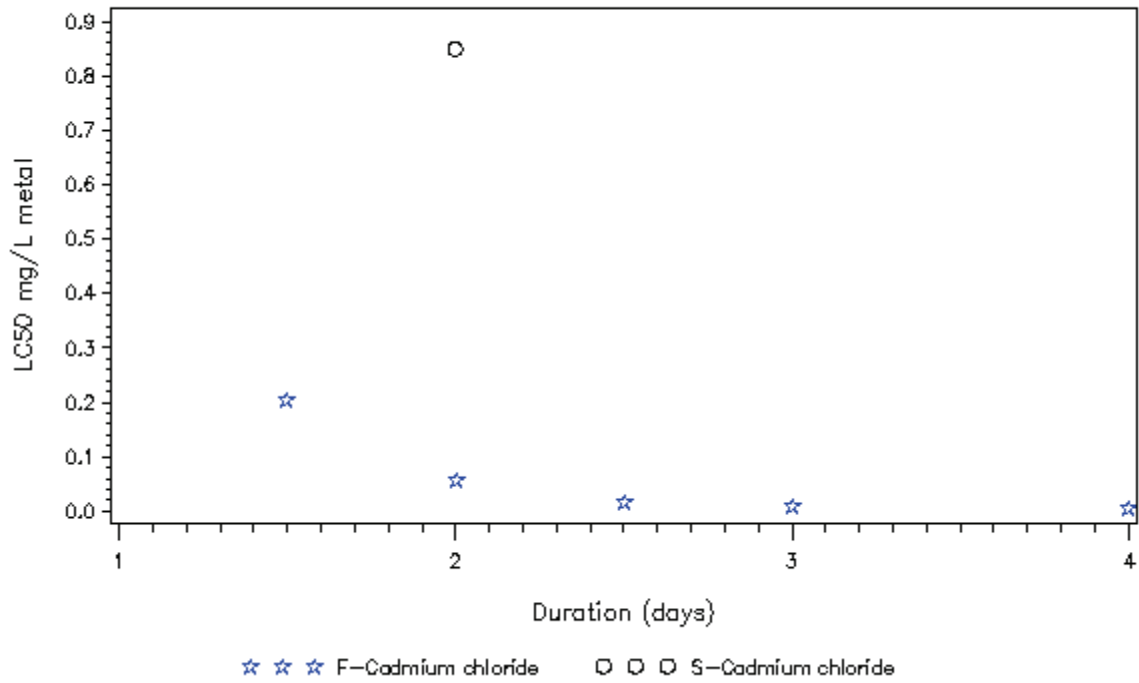


Daphnia magna exposed to Cadmium at T<=15C in very hard water

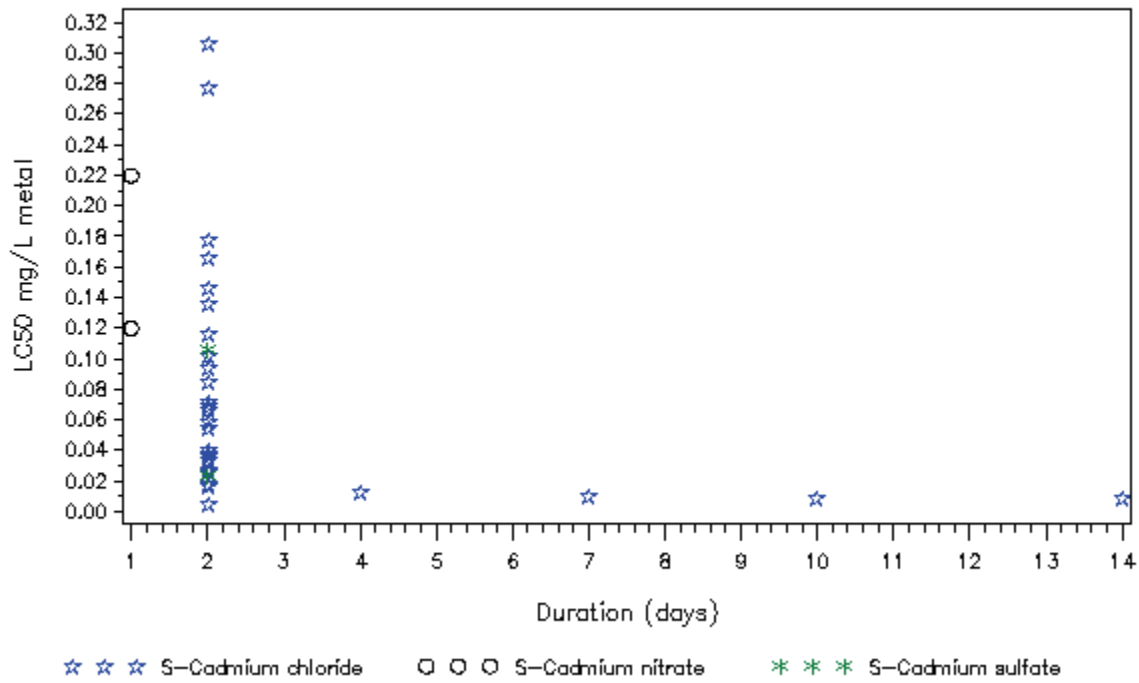


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Cadmium at T>15C in hard water

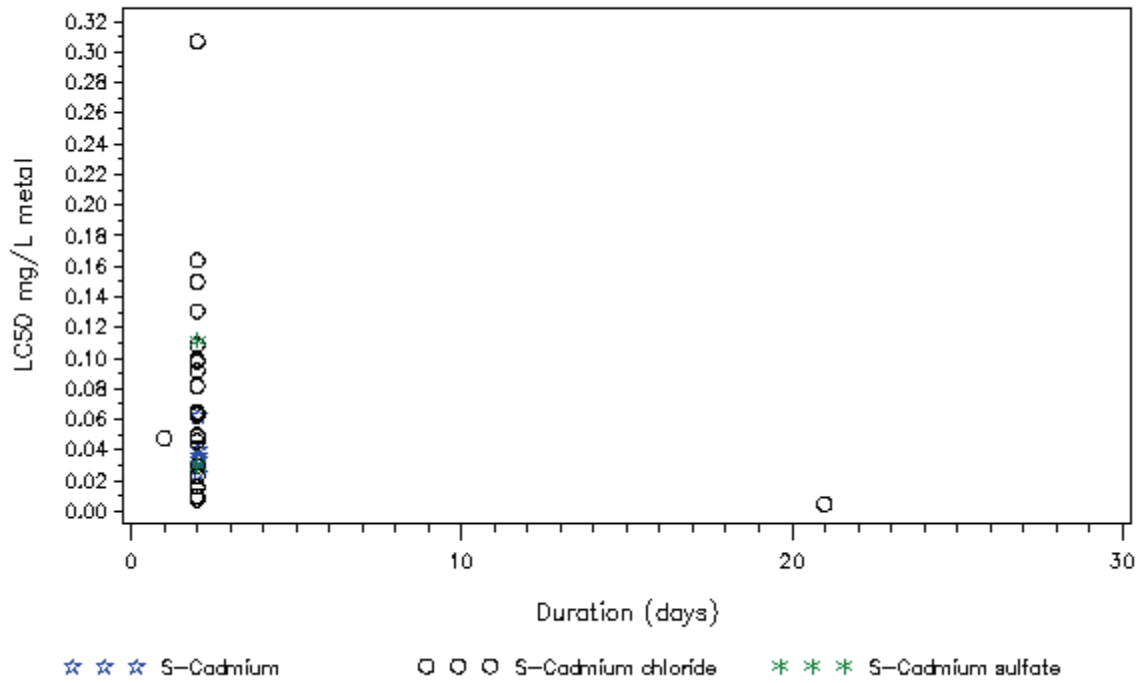


Daphnia magna exposed to Cadmium at T>15C in moderate water

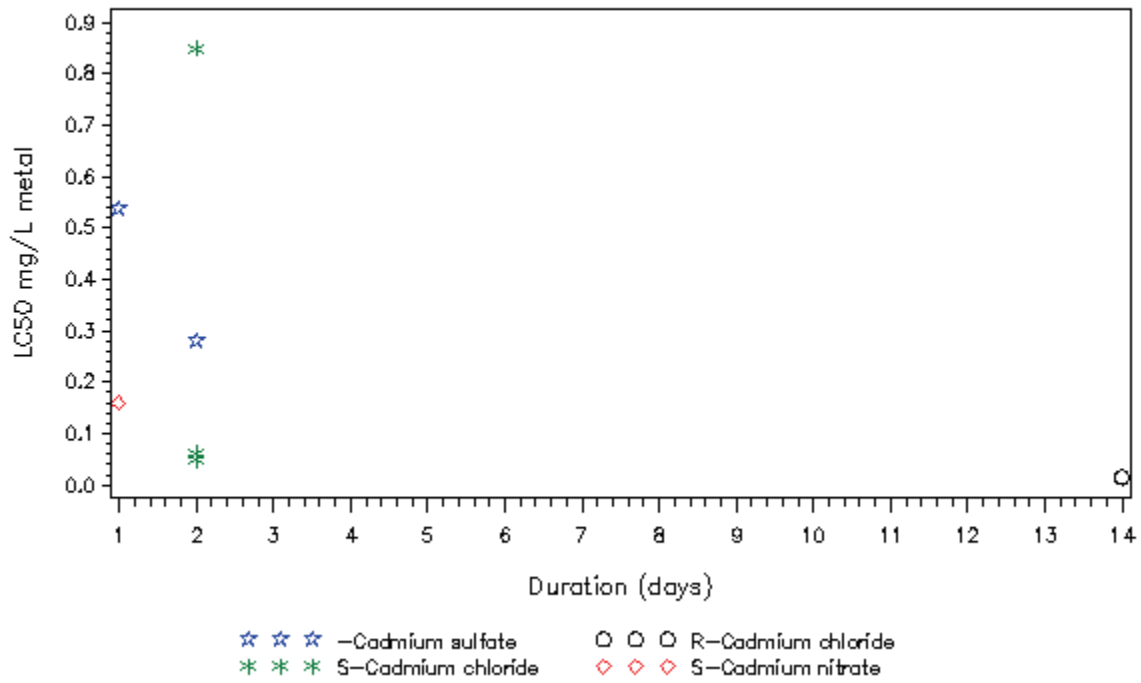


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Cadmium at T>15C in soft water

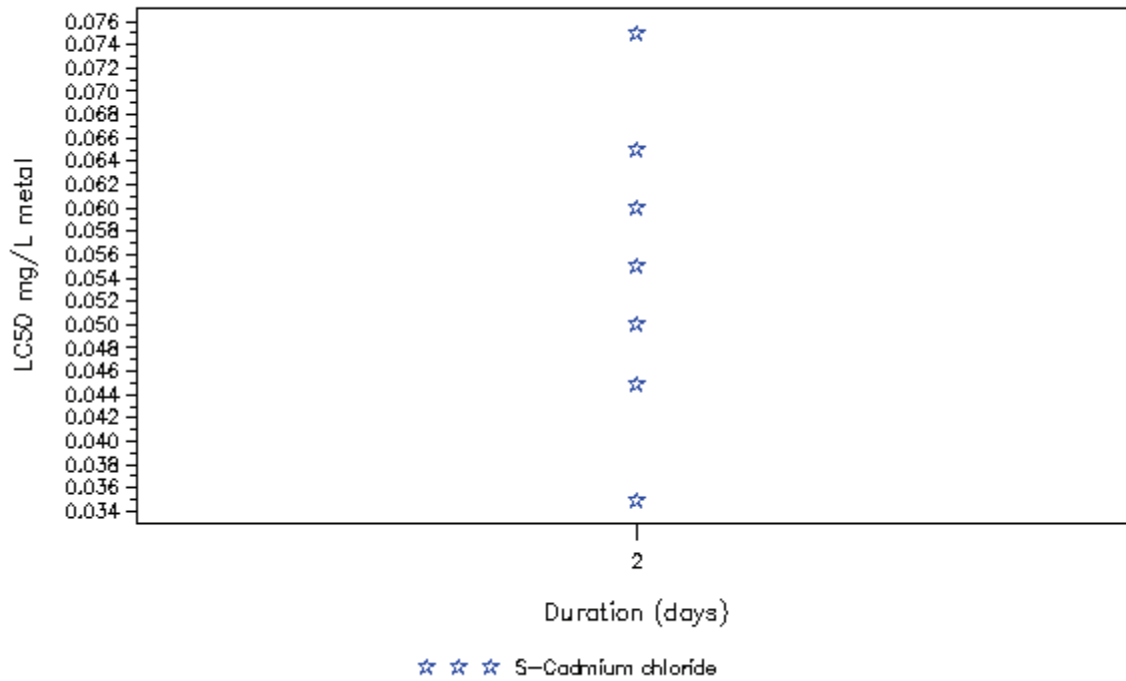


Daphnia magna exposed to Cadmium at T>15C in very hard water

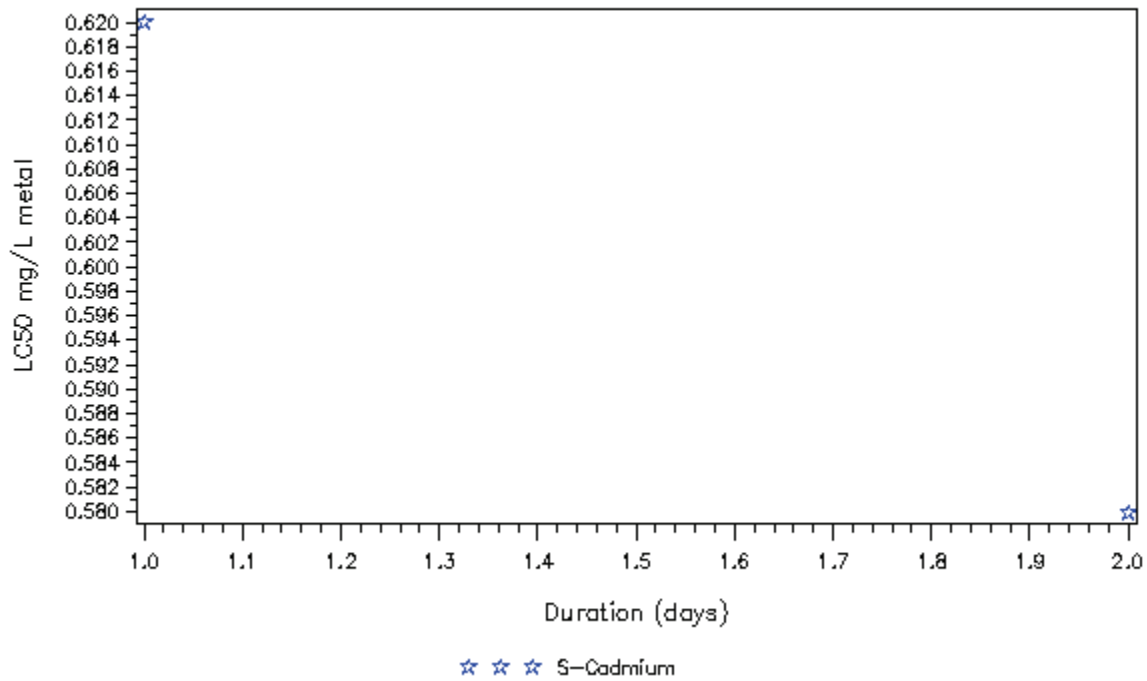


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Cadmium at T>15C in very soft water

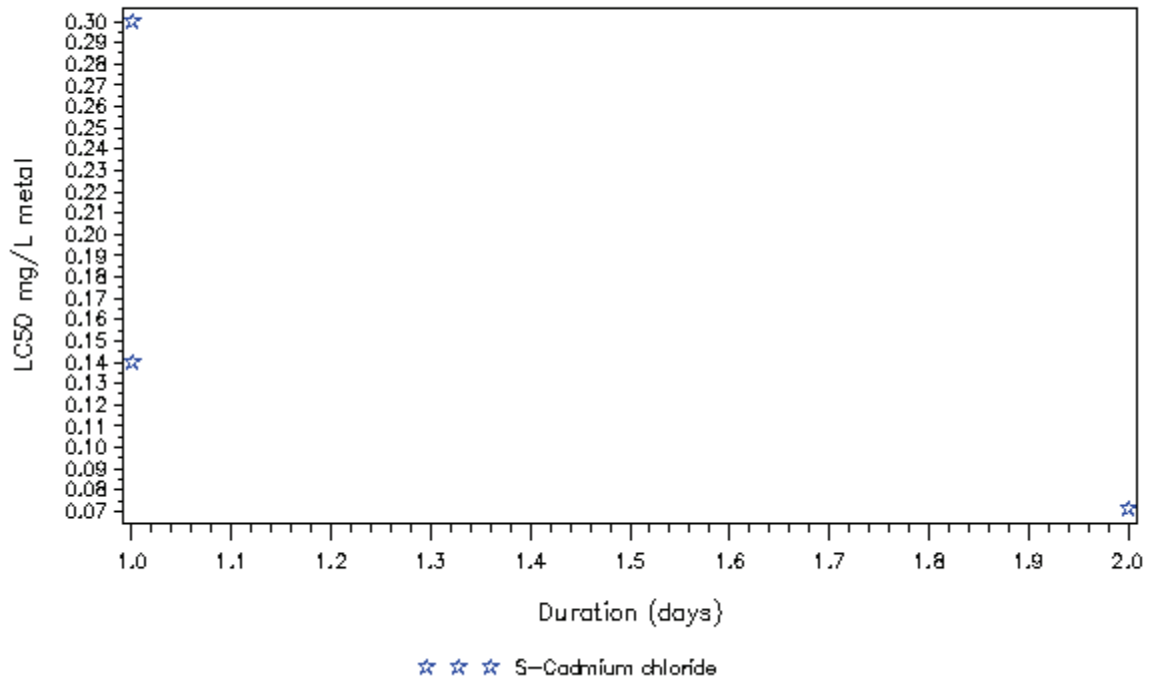


Daphnia obtusa exposed to Cadmium at T>15C in very hard water

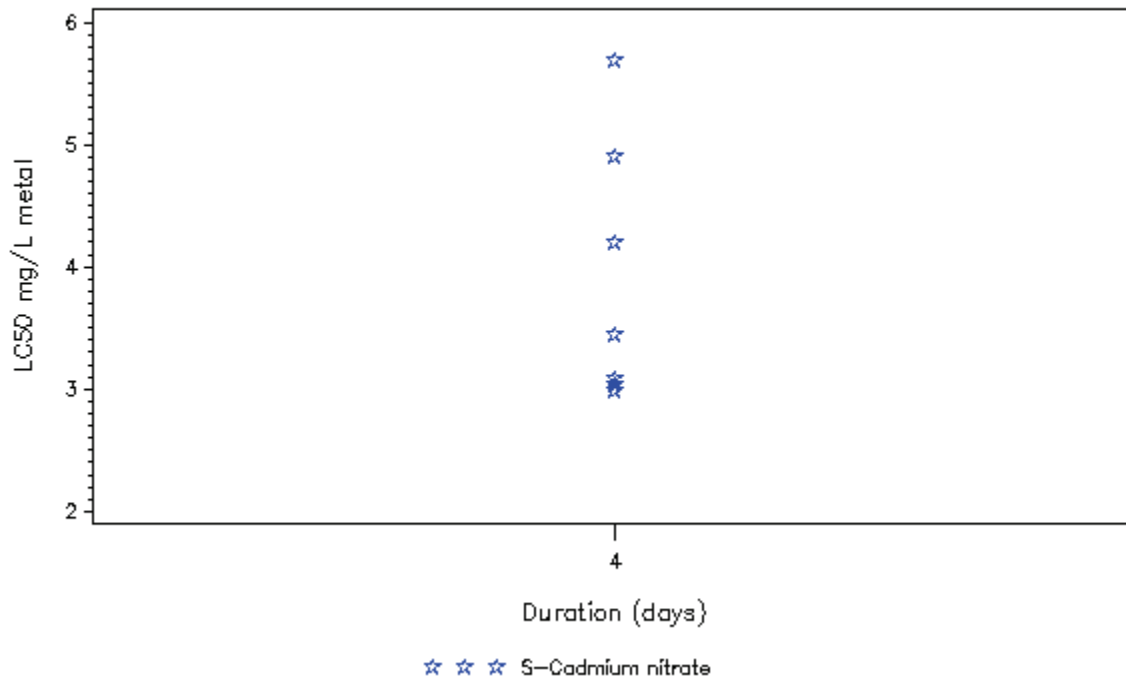


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia pulex exposed to Cadmium at T>15C in soft water

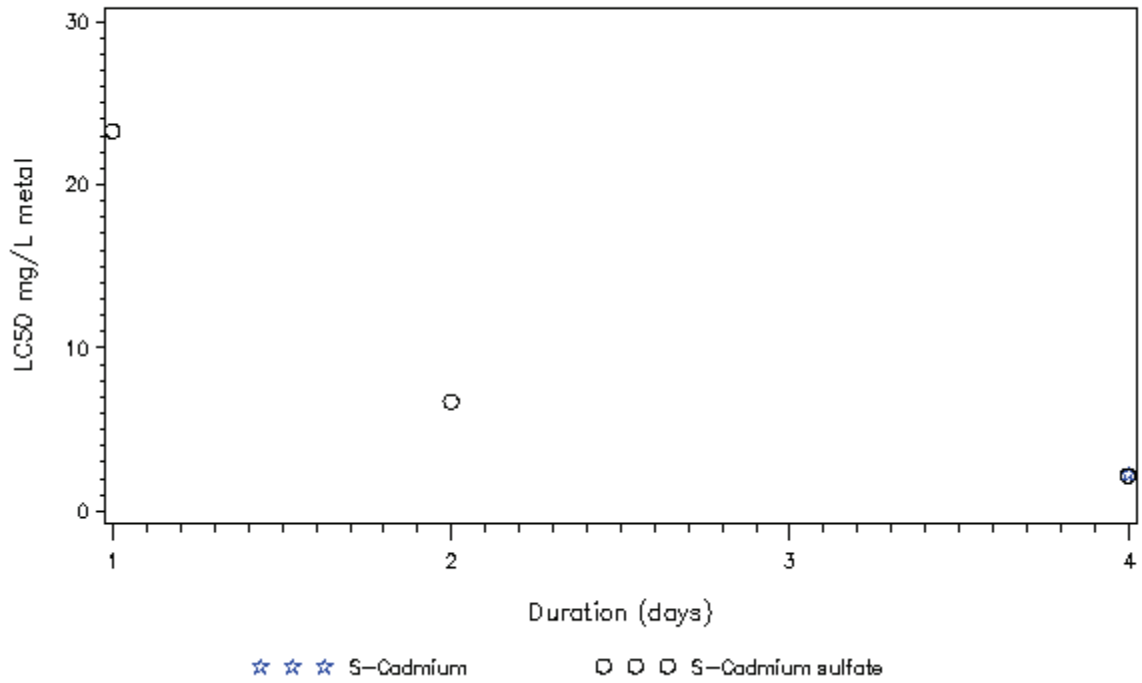


Diaptomus forbesi exposed to Cadmium at T>15C in very hard water

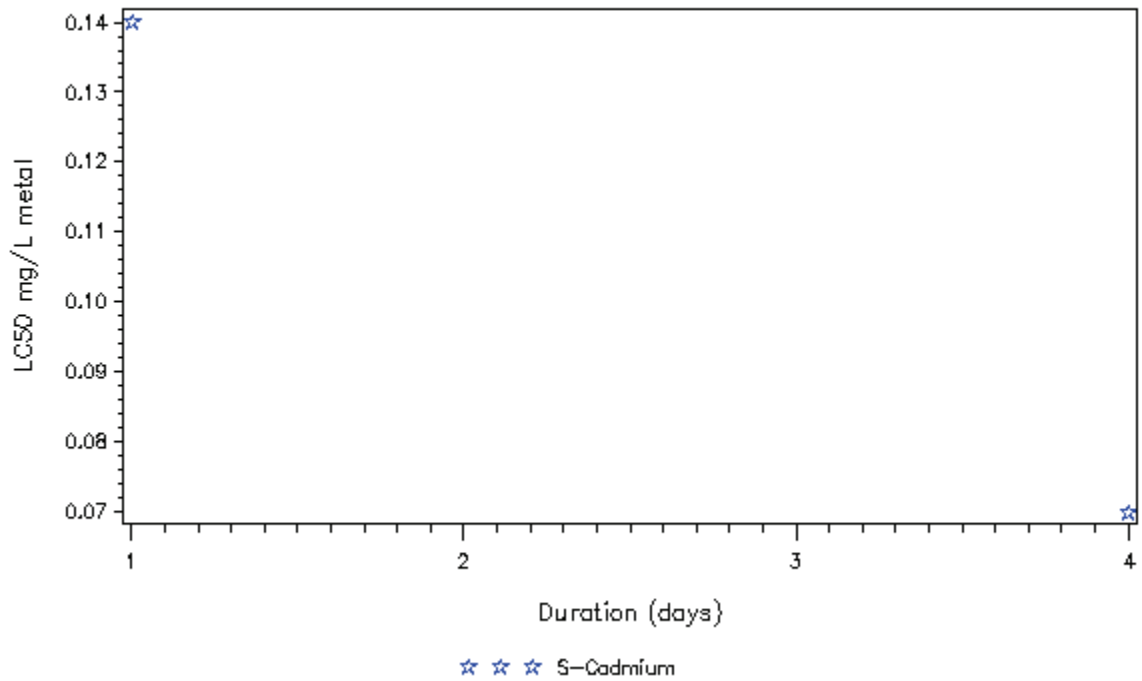


S – Static Test, F – Flowthrough Test, R –Renewal Test

Dugesia tigrina exposed to Cadmium at T>15C in soft water

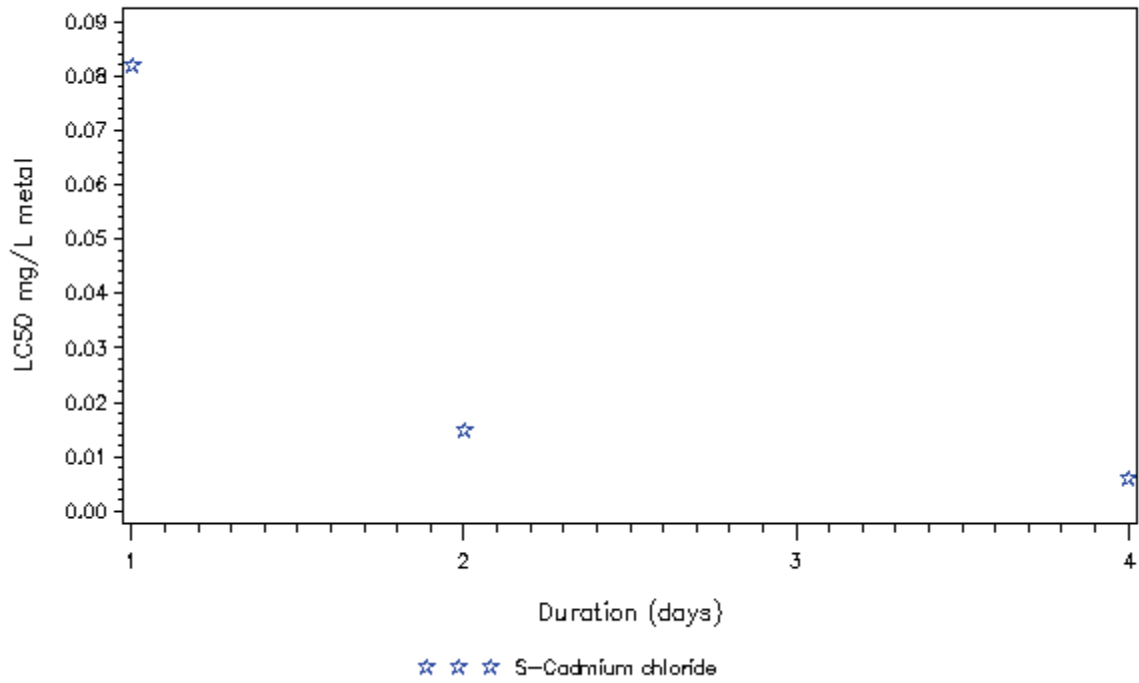


Gammarus exposed to Cadmium at T>15C in soft water

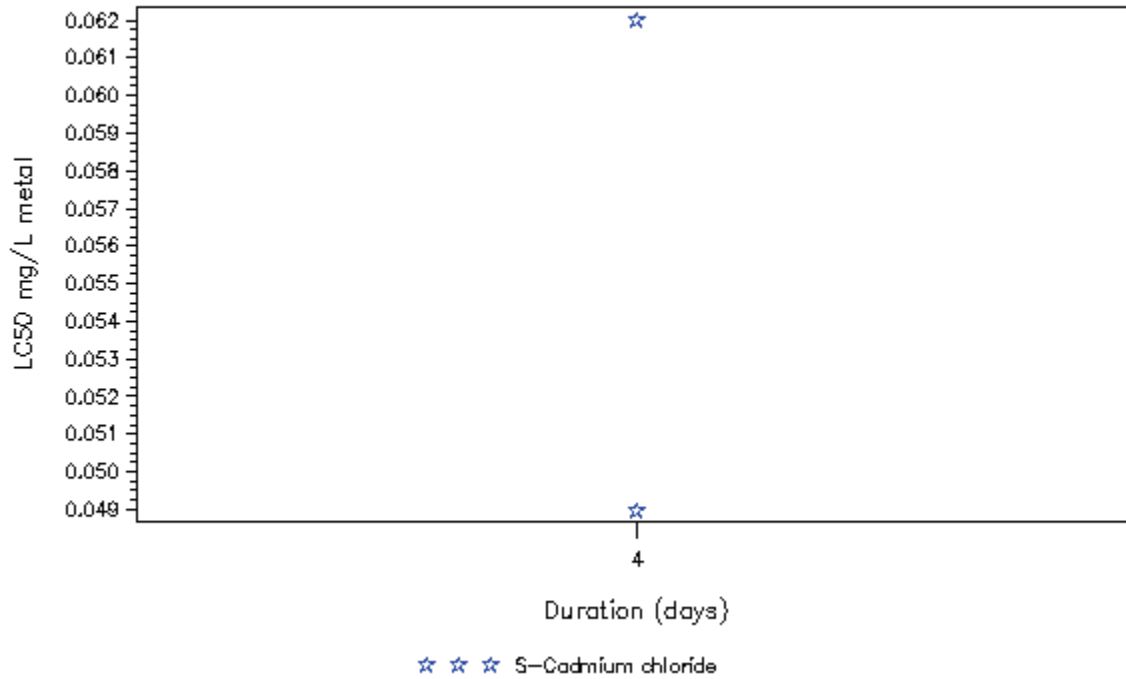


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gammarus fossarum exposed to Cadmium at T>15C in hard water

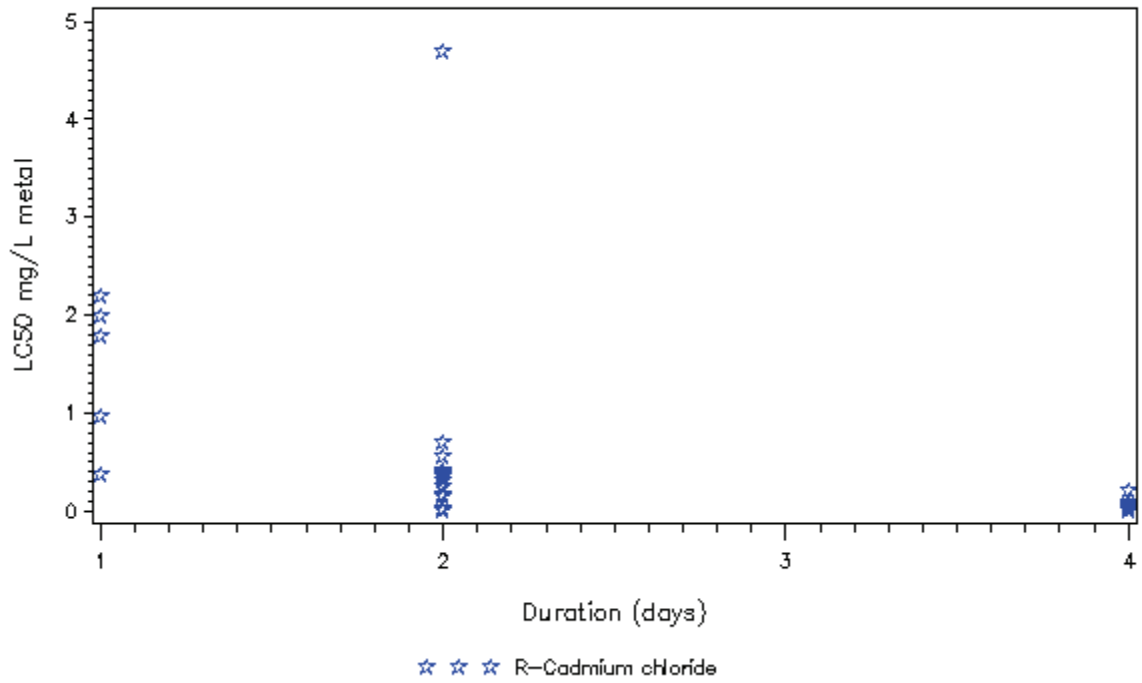


Gammarus pseudolimnaeus exposed to Cadmium at T<=15C in moderate water

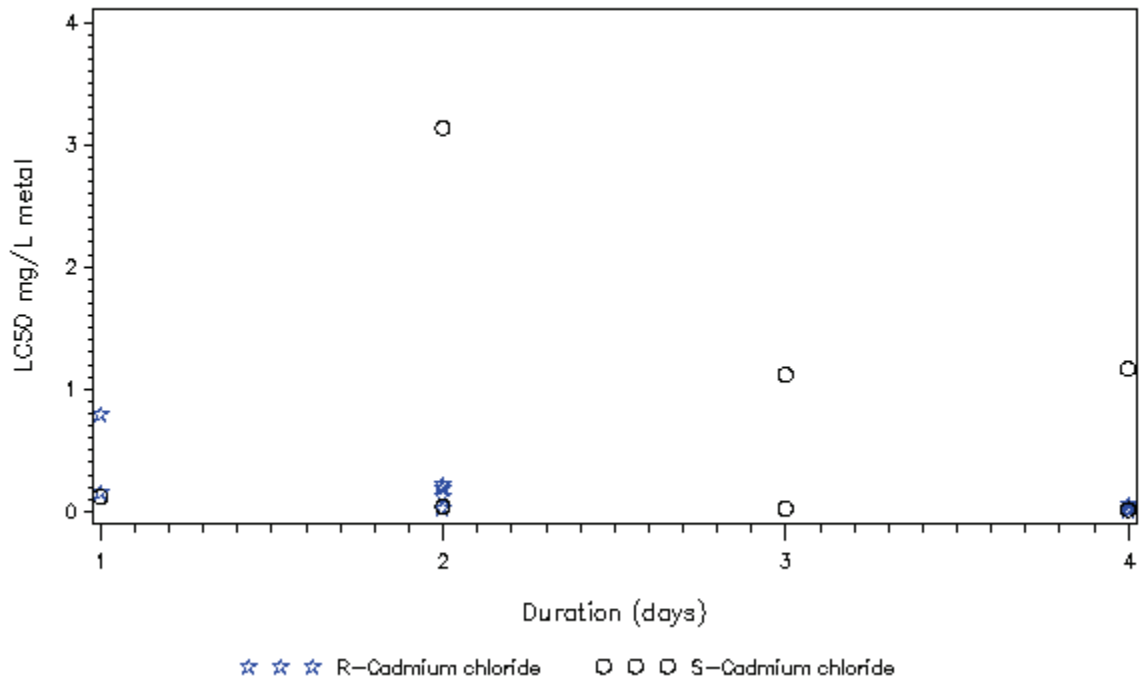


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gammarus pulex exposed to Cadmium at T<=15C in hard water

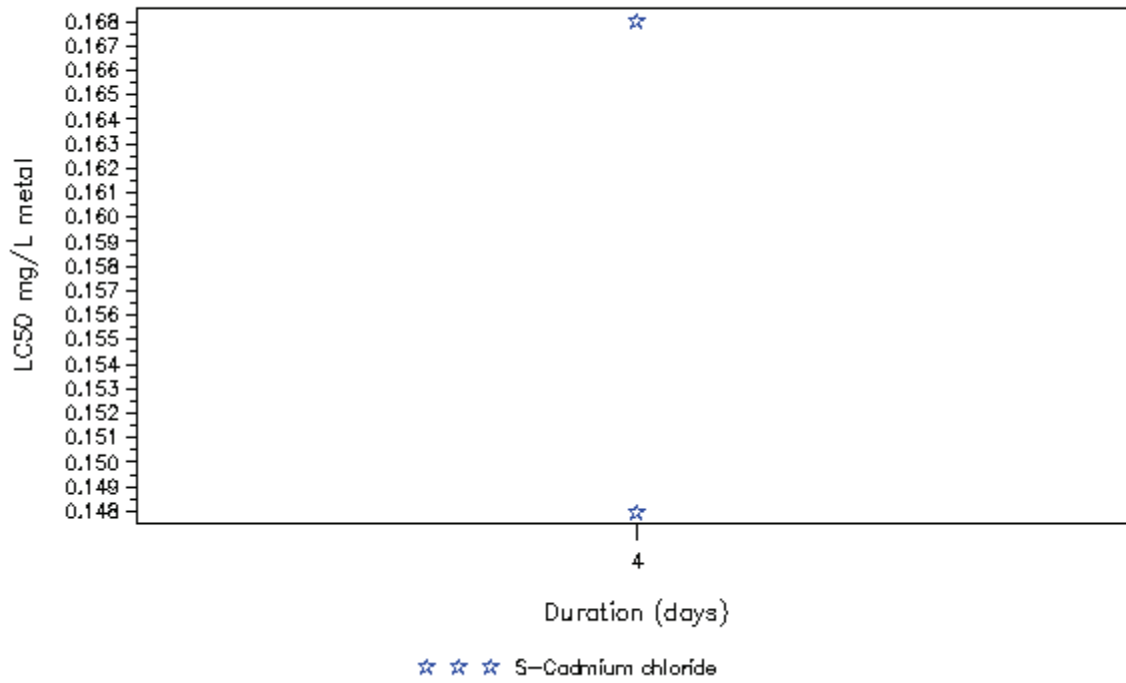


Gammarus pulex exposed to Cadmium at T<=15C in moderate water

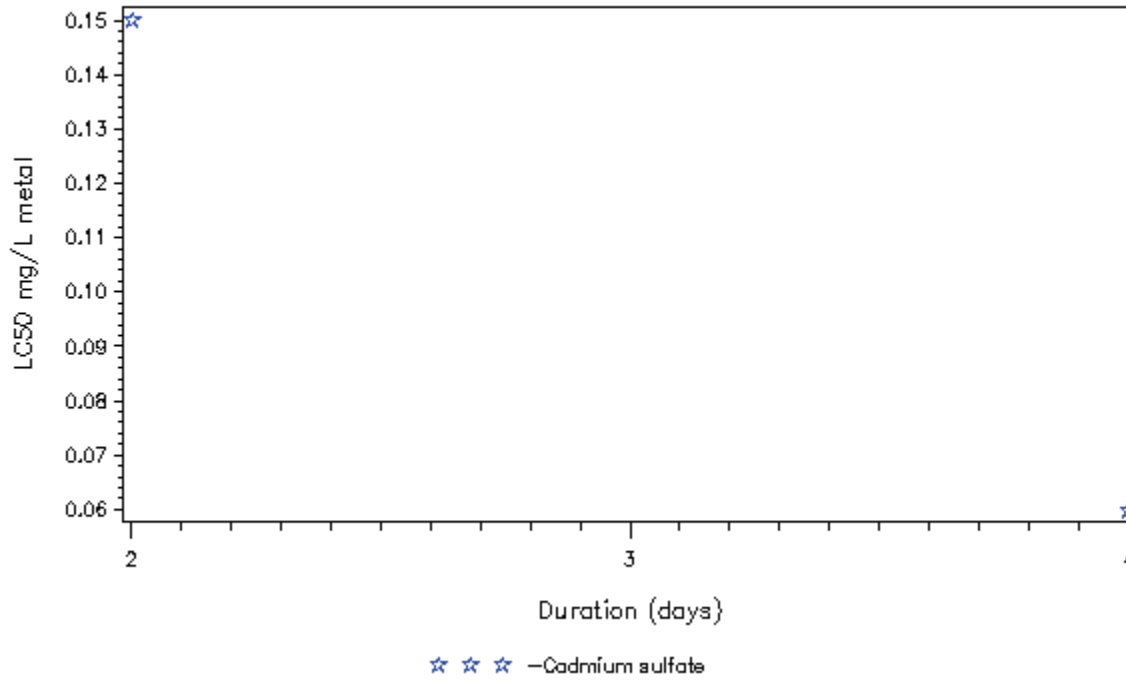


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gila elegans exposed to Cadmium at T>15C in very hard water

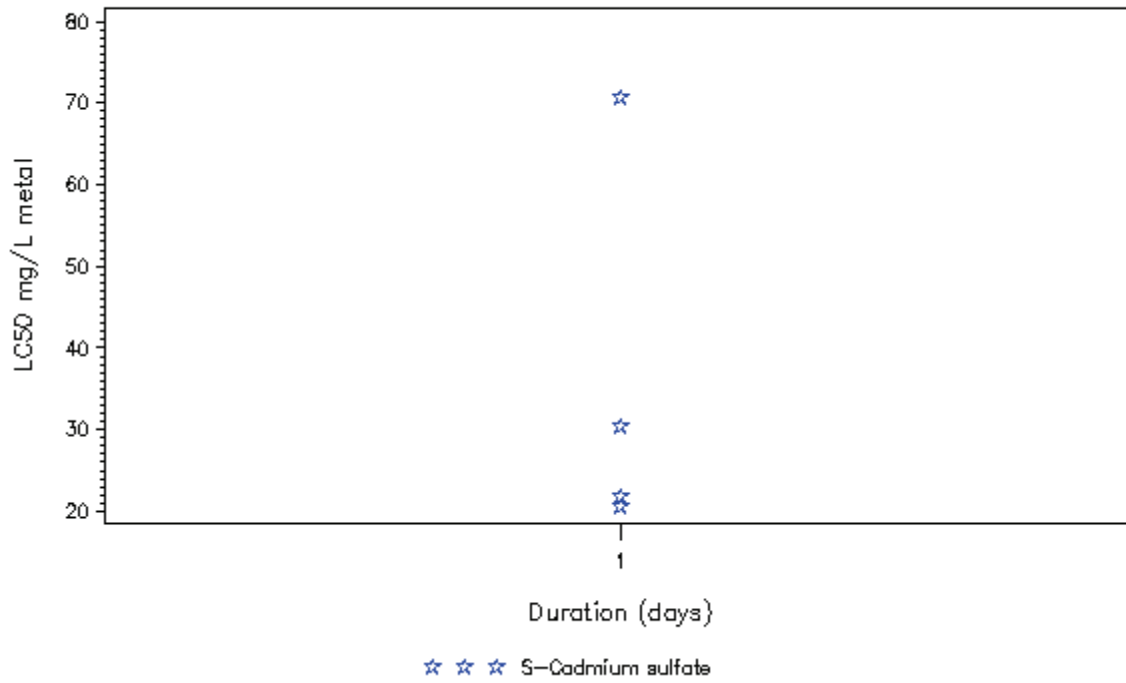


Heliodiaptomus viduus exposed to Cadmium at T>15C in soft water

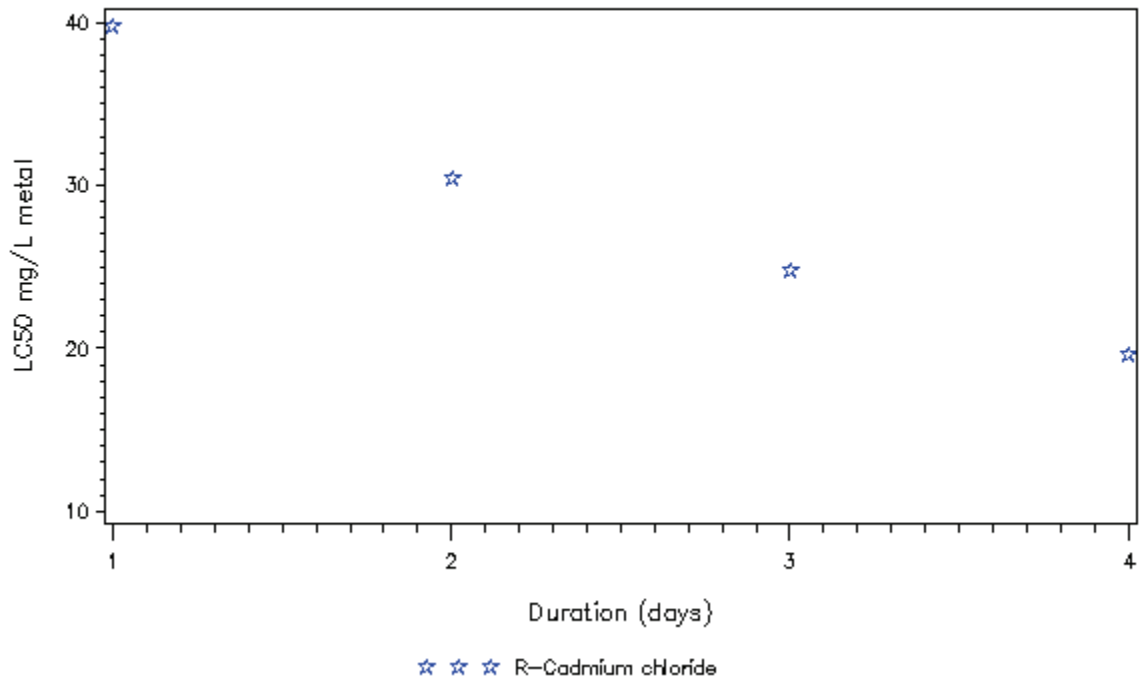


S – Static Test, F – Flowthrough Test, R –Renewal Test

Heteropneustes fossilis exposed to Cadmium at T>15C in hard water

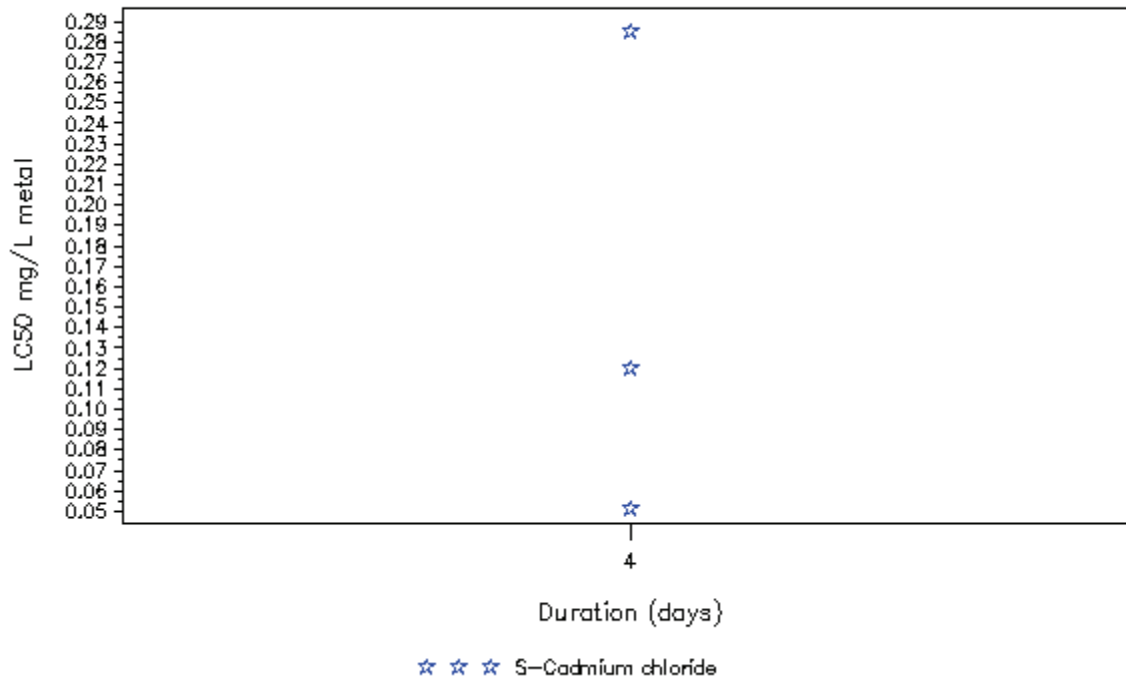


Heteropneustes fossilis exposed to Cadmium at T>15C in very hard water

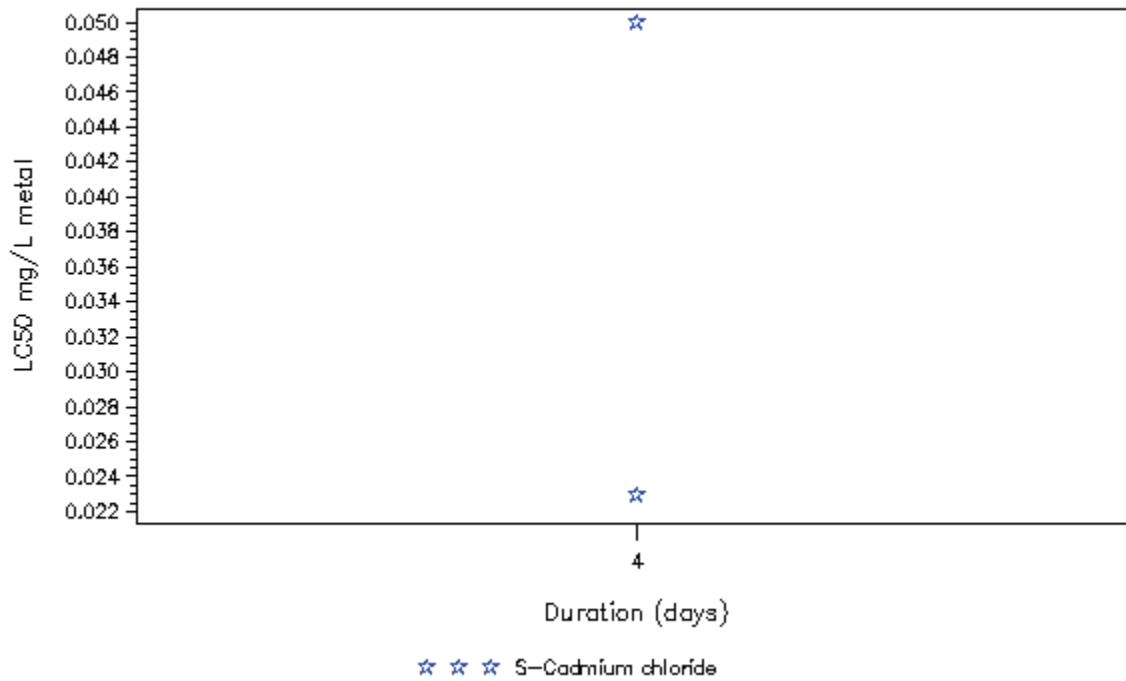


S – Static Test, F – Flowthrough Test, R –Renewal Test

Hyalella azteca exposed to Cadmium at T<=15C in moderate water

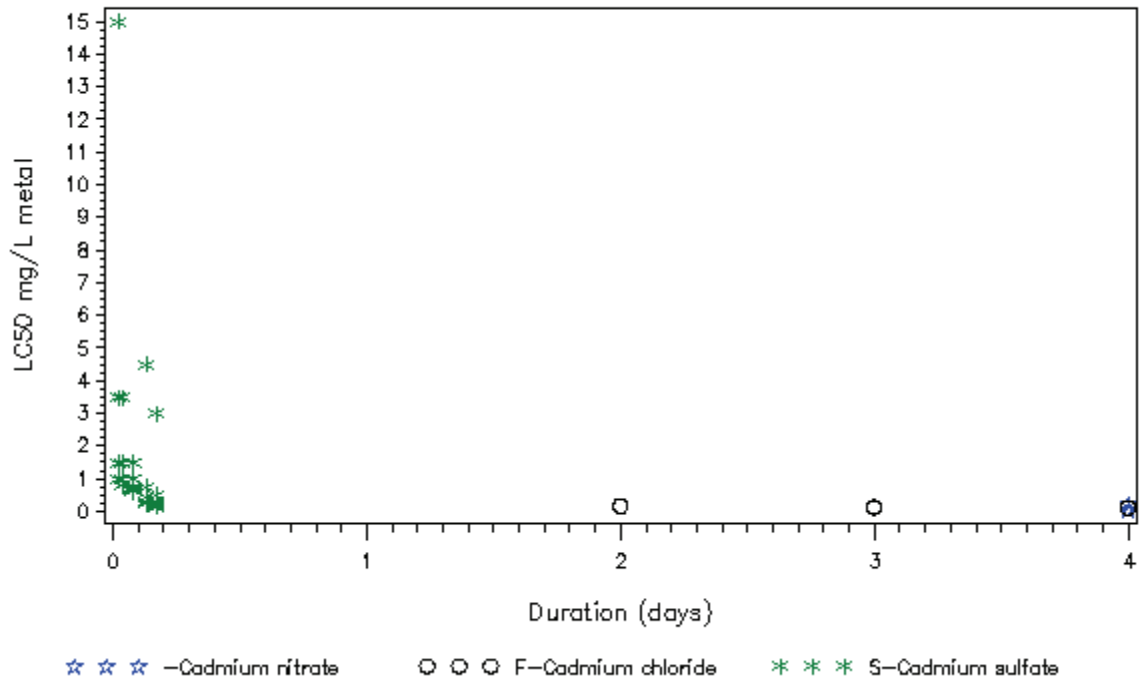


Hyalella azteca exposed to Cadmium at T<=15C in soft water

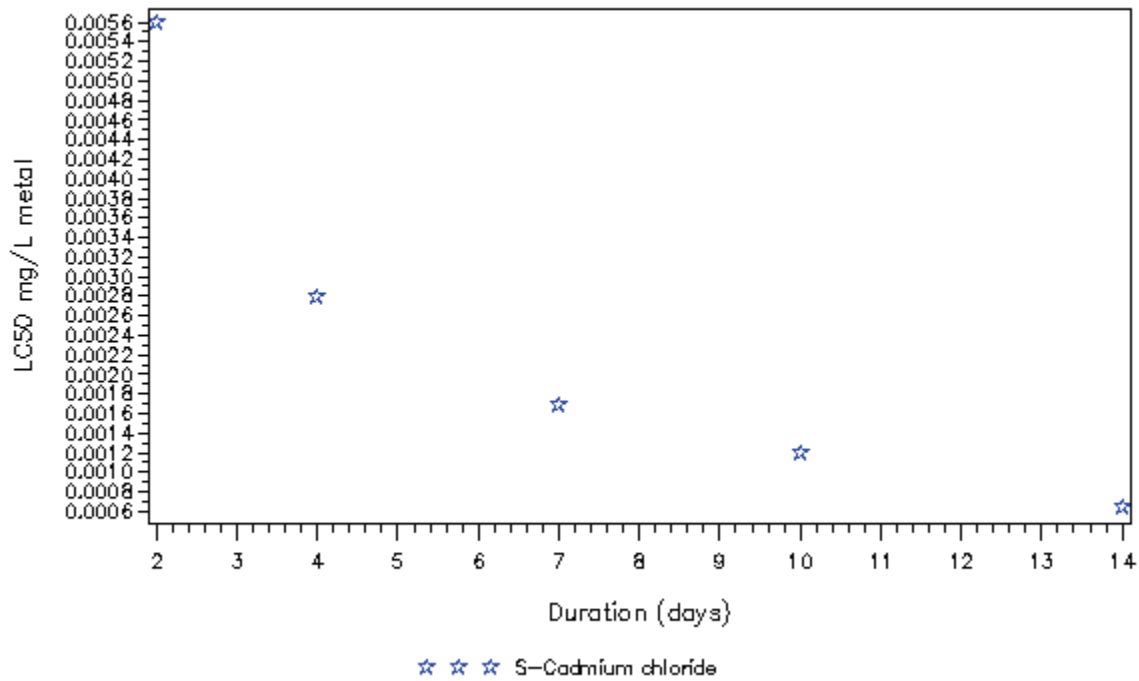


S – Static Test, F – Flowthrough Test, R –Renewal Test

Hyalella azteca exposed to Cadmium at T>15C in very hard water

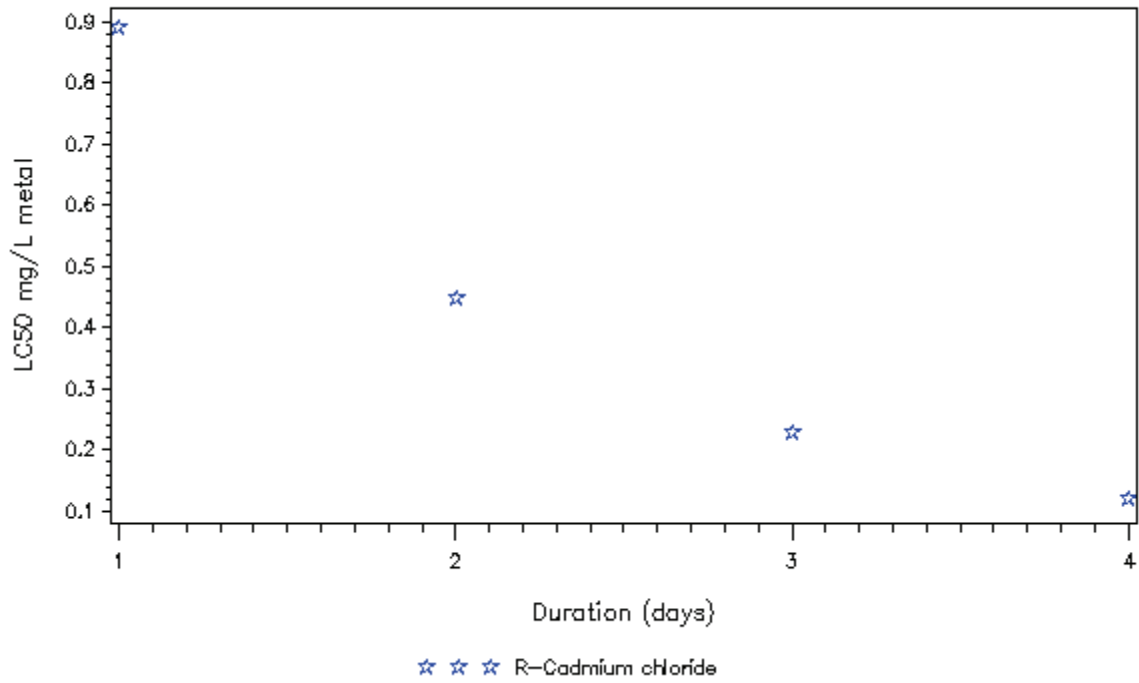


Hyalella azteca exposed to Cadmium at T>15C in very soft water

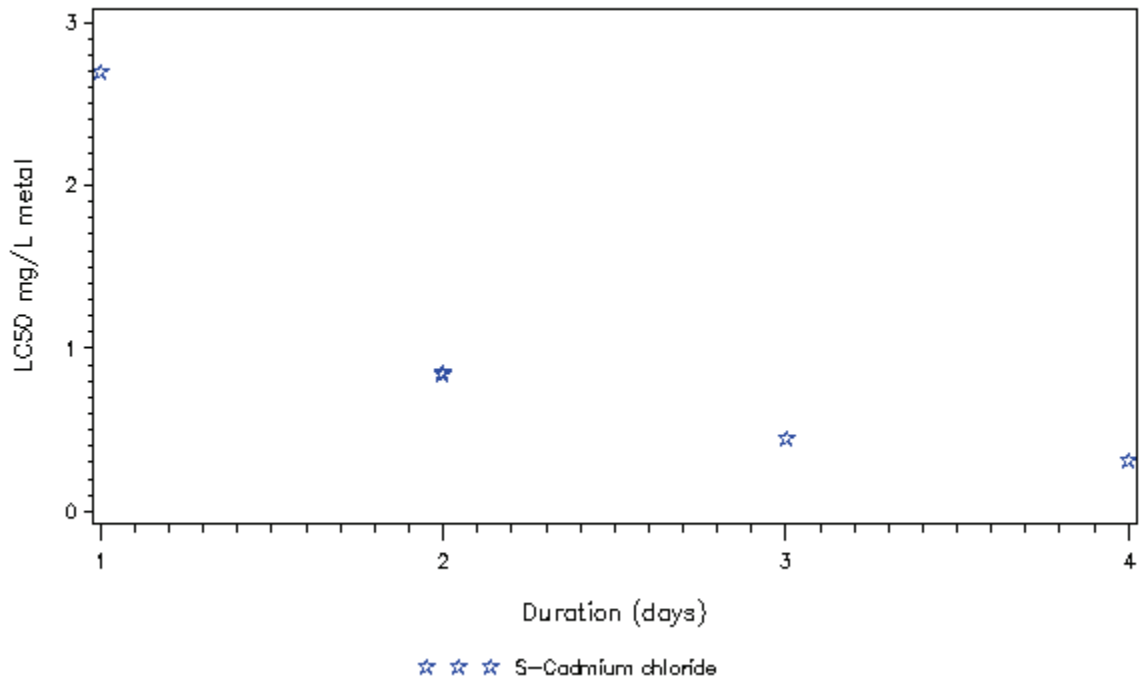


S – Static Test, F – Flowthrough Test, R –Renewal Test

Hydra vulgaris exposed to Cadmium at T>15C in moderate water

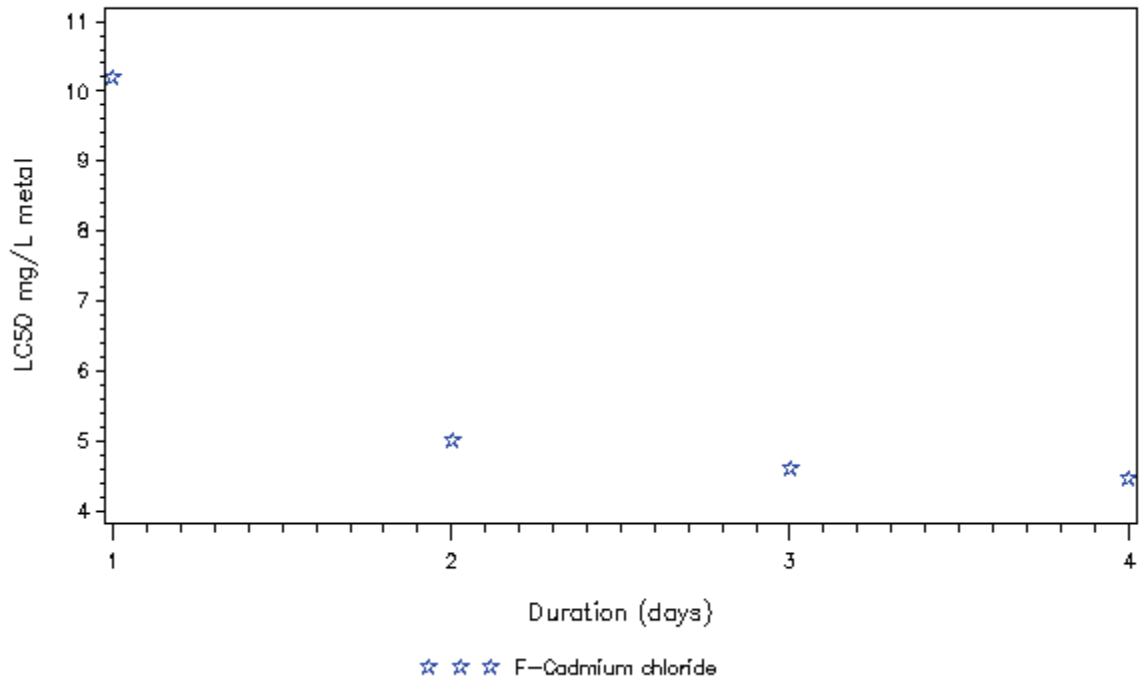


Hydra vulgaris exposed to Cadmium at T>15C in very hard water

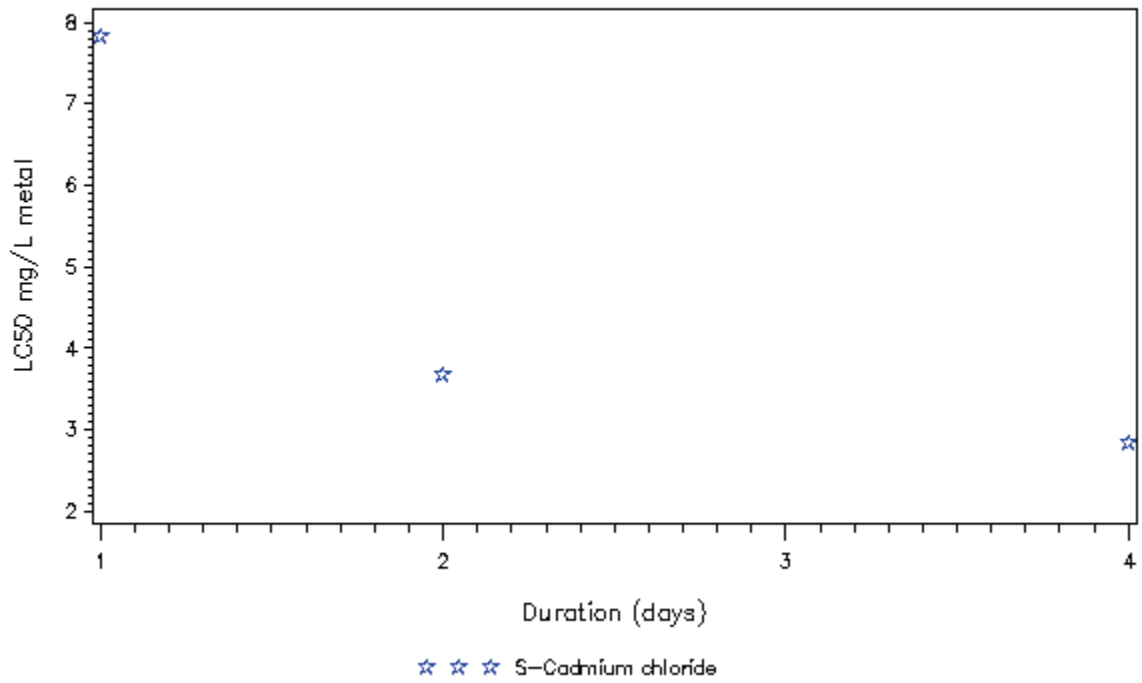


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ictalurus punctatus exposed to Cadmium at T>15C in soft water

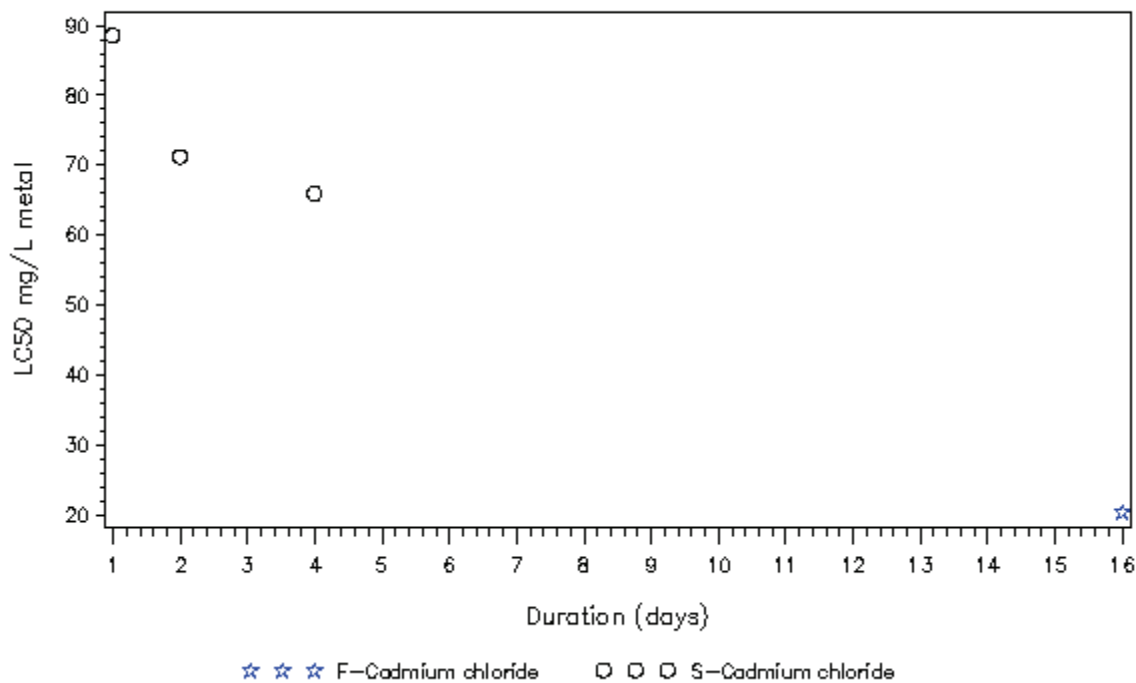


Lepomis cyanellus exposed to Cadmium at T>15C in soft water

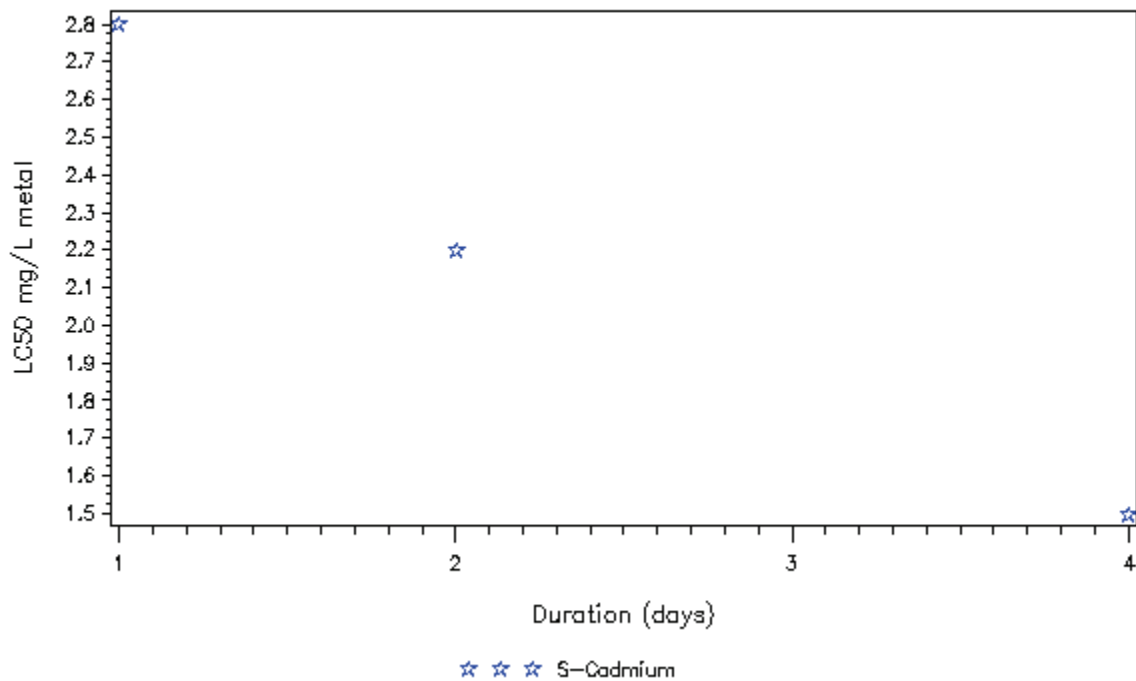


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis cyanellus exposed to Cadmium at T>15C in very hard water

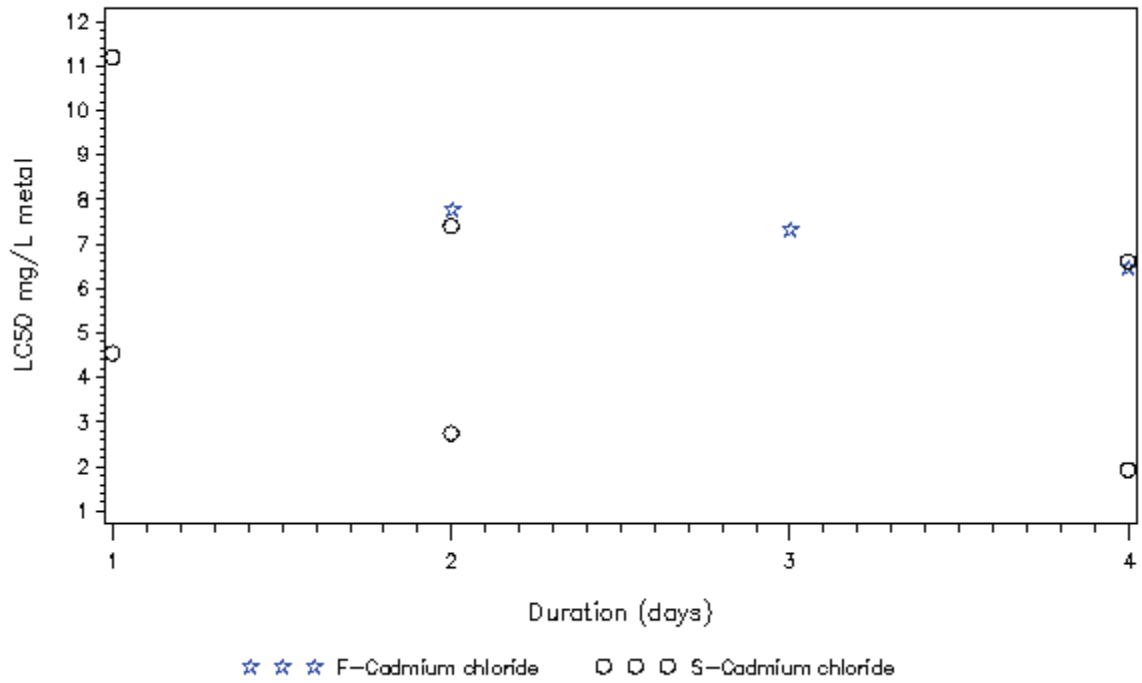


Lepomis gibbosus exposed to Cadmium at T>15C in soft water

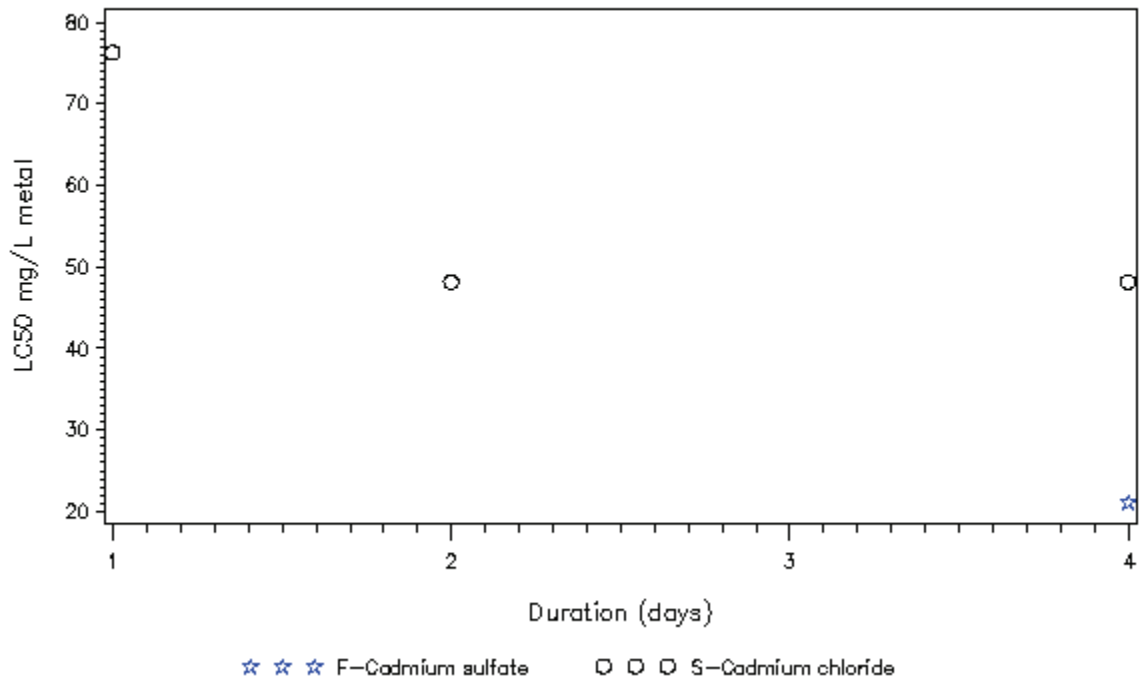


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis macrochirus exposed to Cadmium at T>15C in soft water

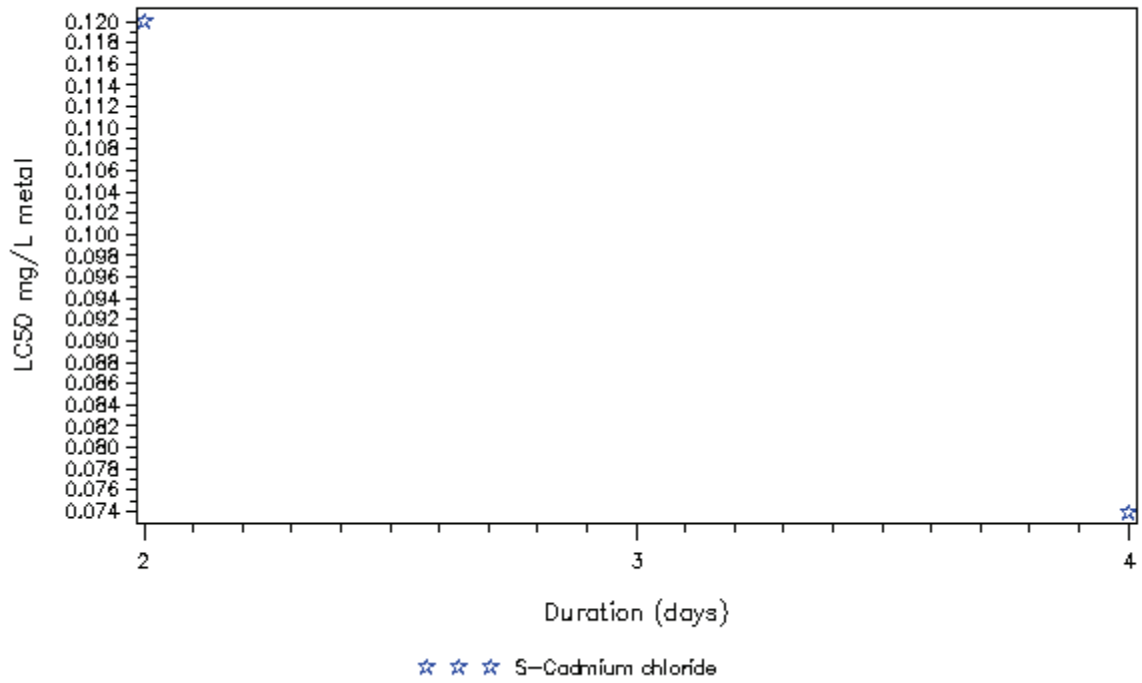


Lepomis macrochirus exposed to Cadmium at T>15C in very hard water

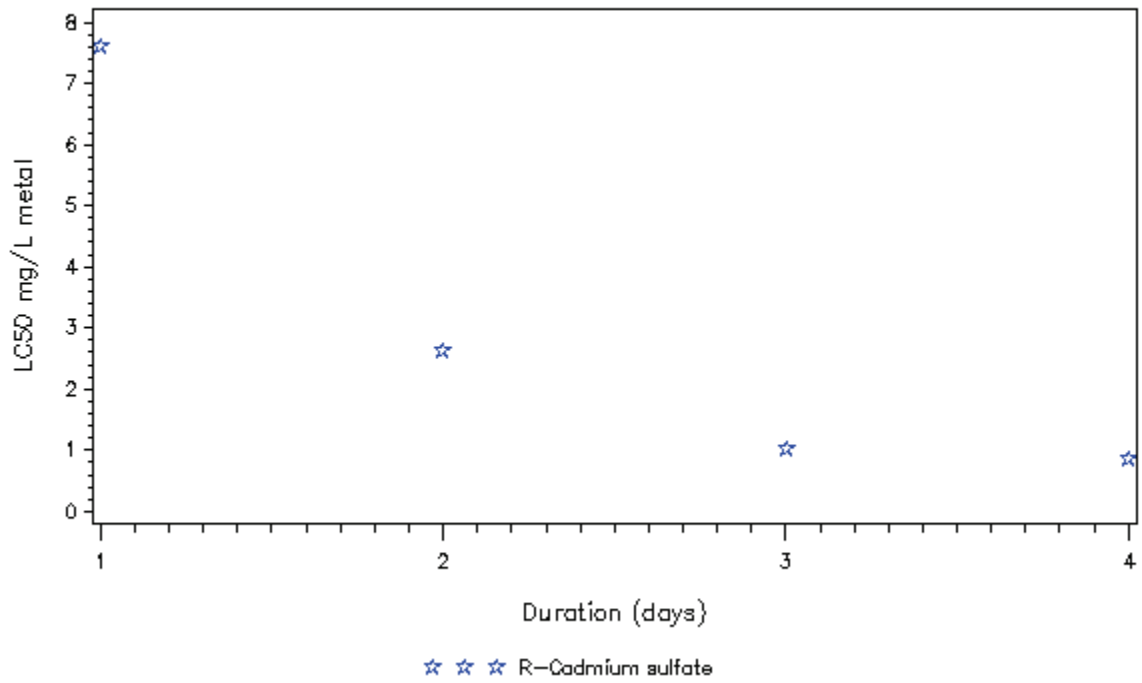


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lumbriculus variegatus exposed to Cadmium at T>15C in soft water

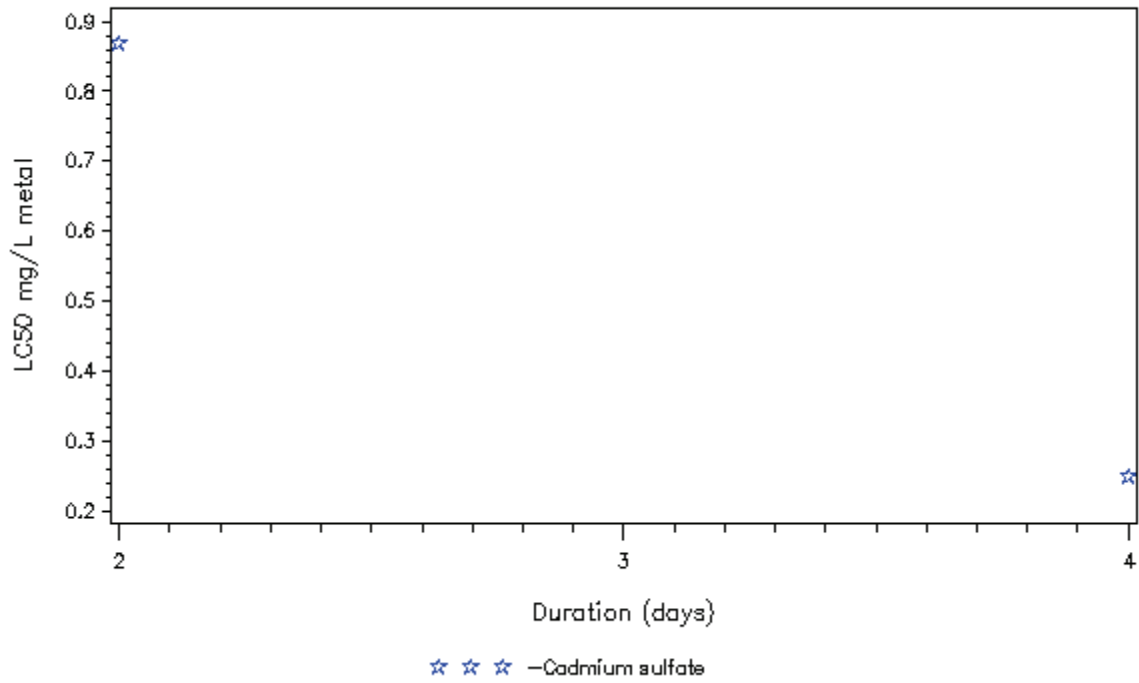


Lymnaea acuminata exposed to Cadmium at T>15C in very hard water

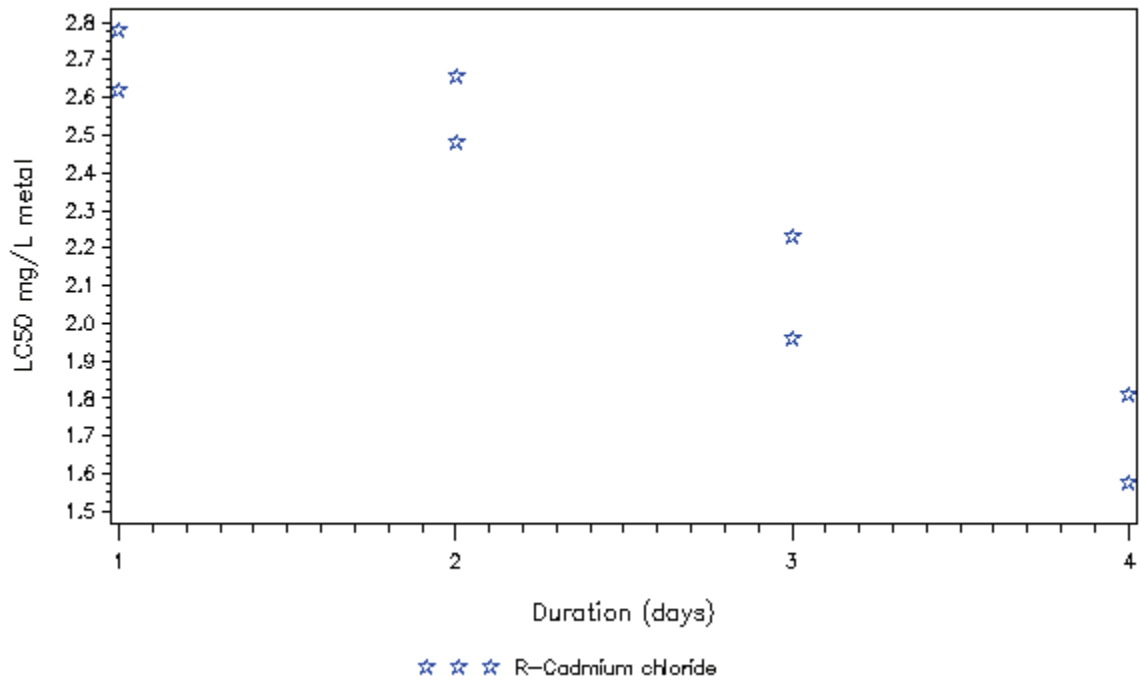


S – Static Test, F – Flowthrough Test, R –Renewal Test

Mesocyclops hyalinus exposed to Cadmium at T>15C in soft water

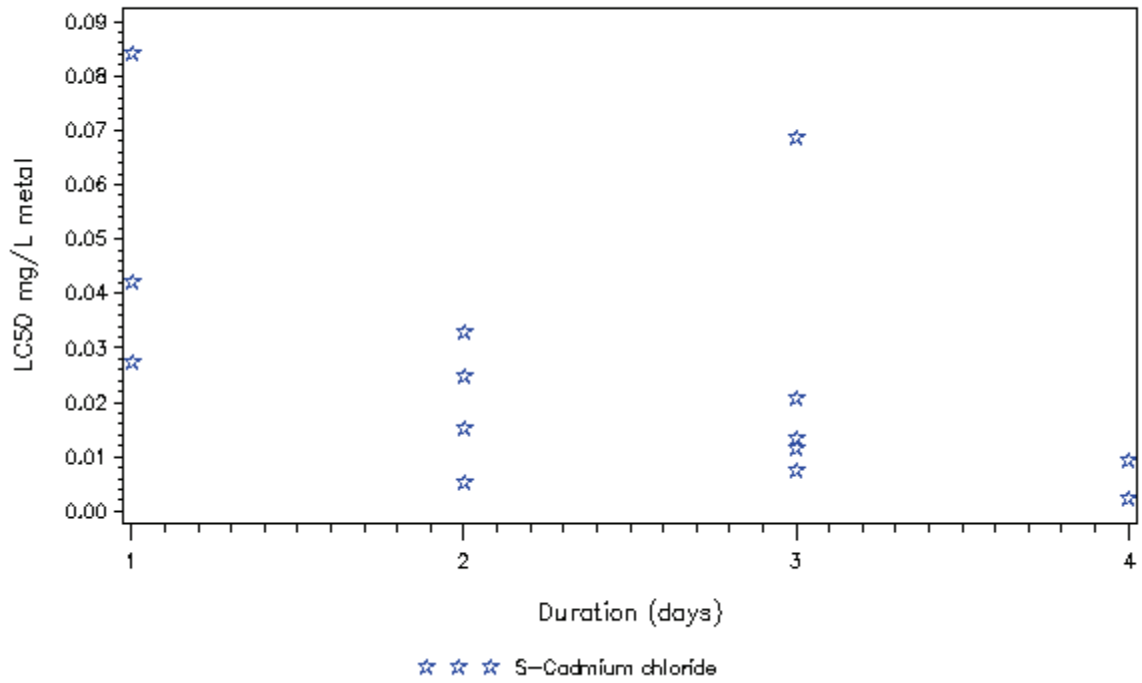


Microhyla ornata exposed to Cadmium at T>15C in hard water

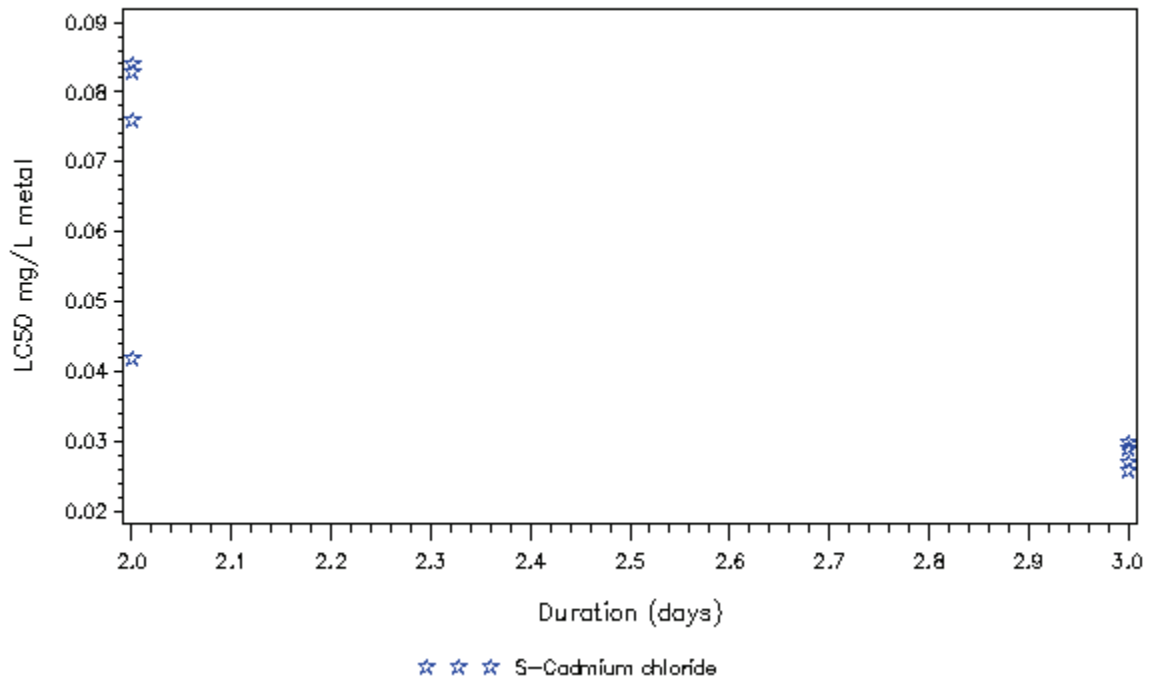


S – Static Test, F – Flowthrough Test, R –Renewal Test

Moina irrasa exposed to Cadmium at T>15C in very soft water

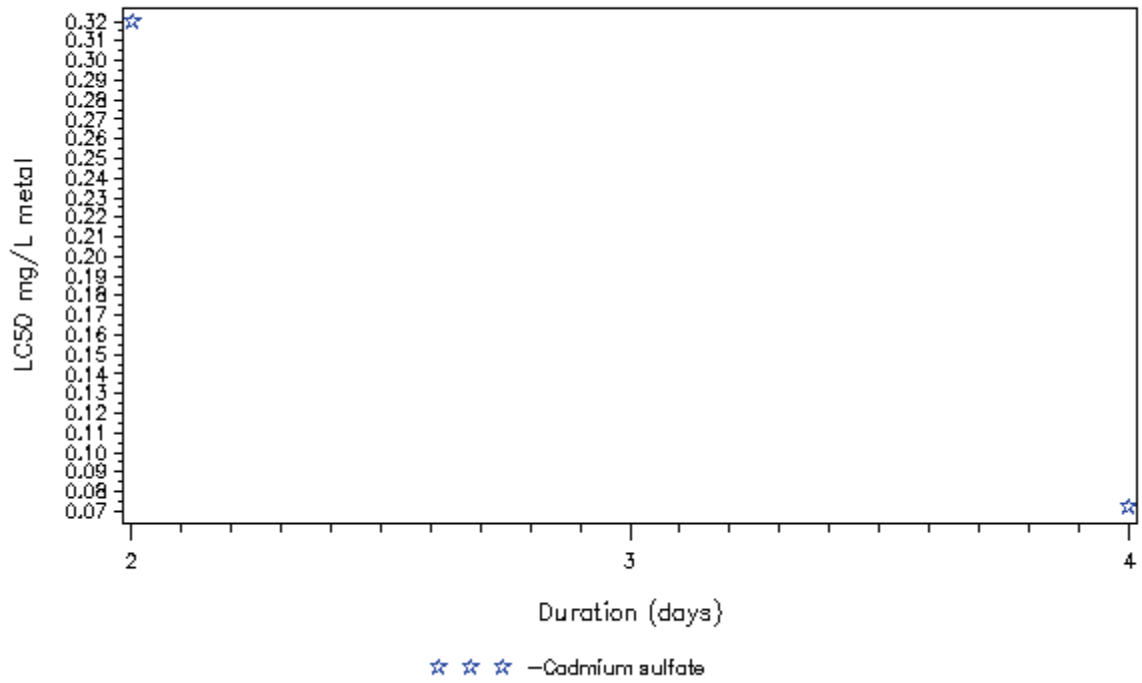


Moina macrocopa exposed to Cadmium at T>15C in moderate water

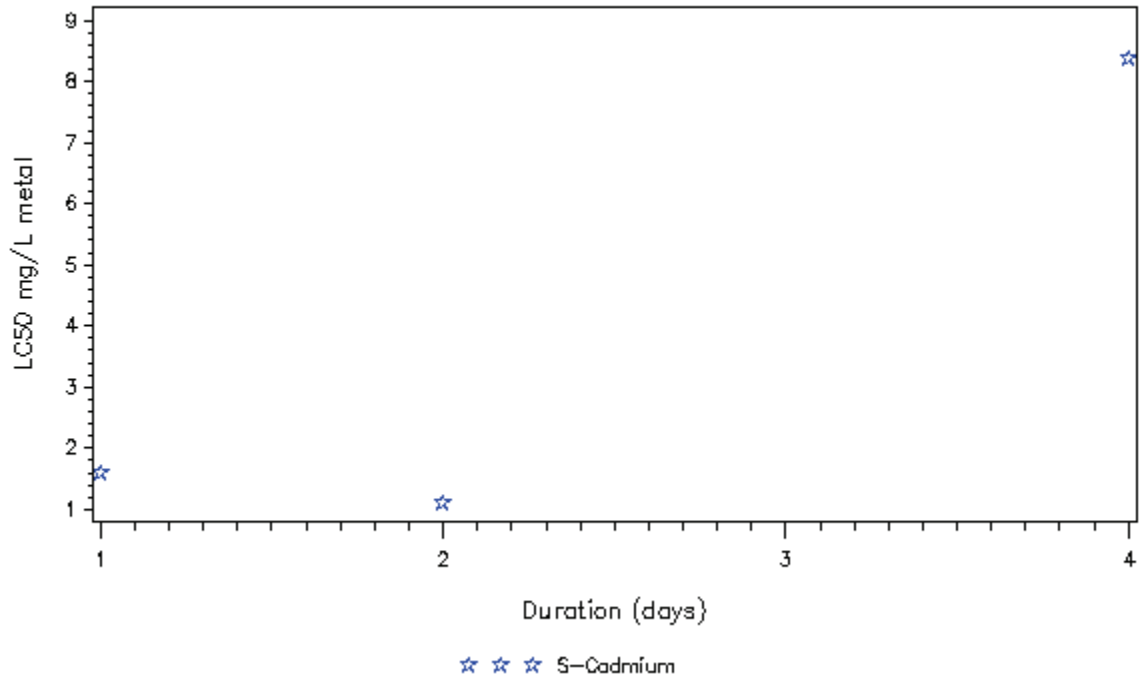


S – Static Test, F – Flowthrough Test, R –Renewal Test

Moina macrocopa exposed to Cadmium at T>15C in soft water

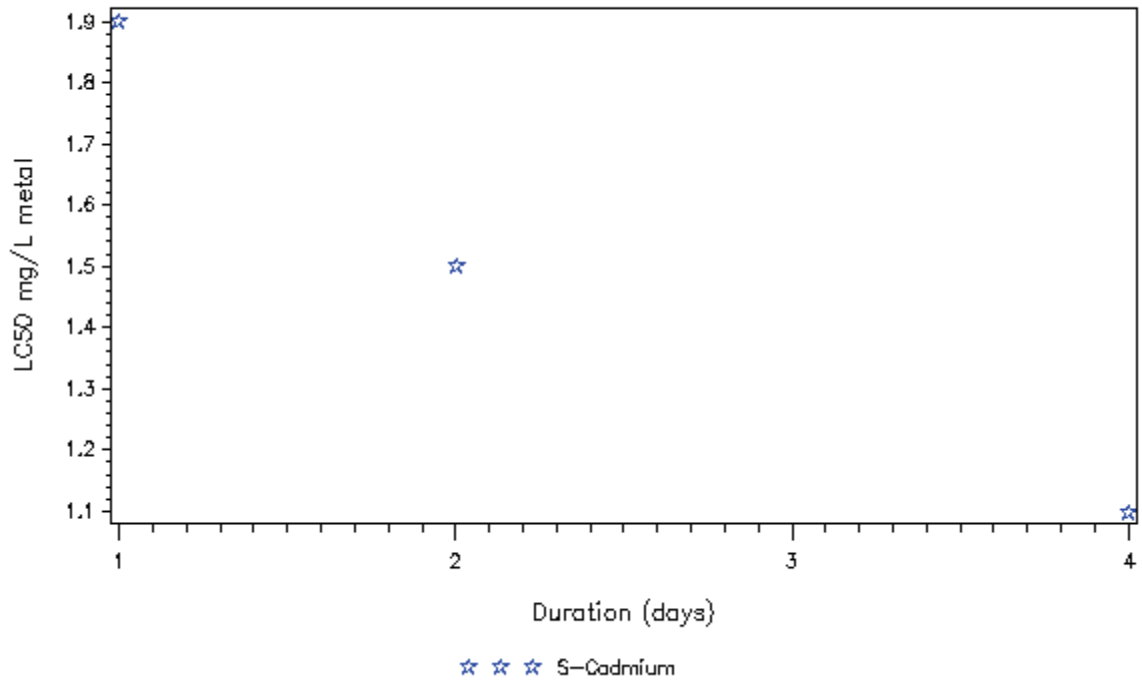


Morone americana exposed to Cadmium at T>15C in soft water

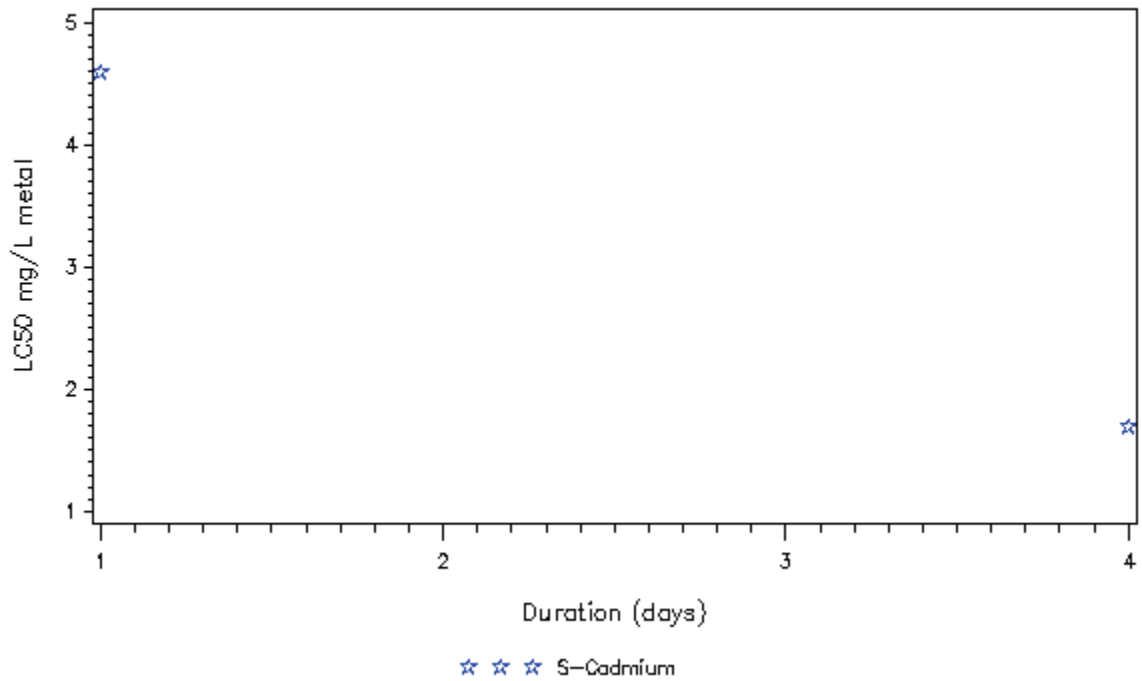


S – Static Test, F – Flowthrough Test, R –Renewal Test

Morone saxatilis exposed to Cadmium at T>15C in soft water

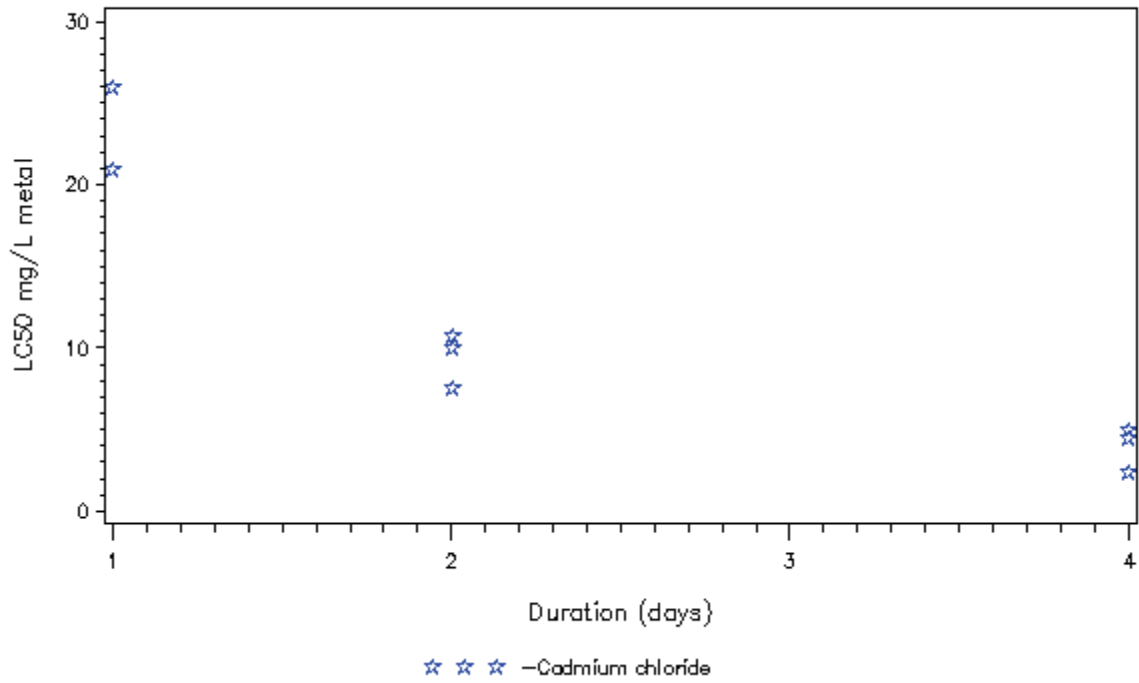


Nais exposed to Cadmium at T>15C in soft water

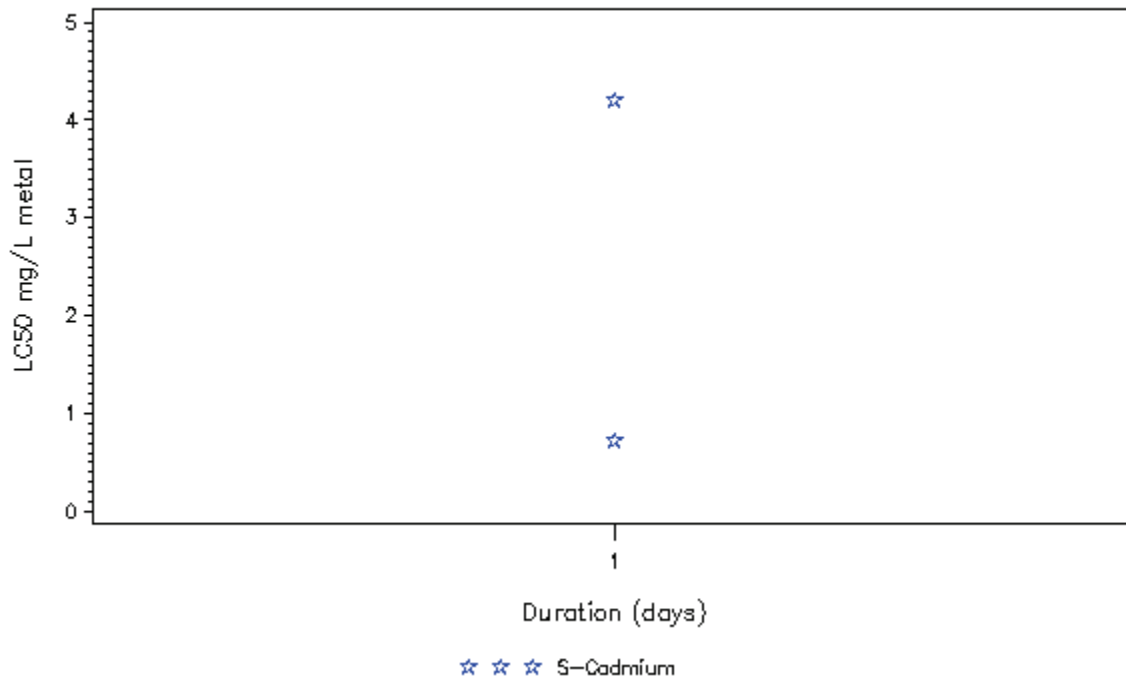


S – Static Test, F – Flowthrough Test, R –Renewal Test

Niphargus aquilex exposed to Cadmium at $T \leq 15^\circ\text{C}$ in moderate water

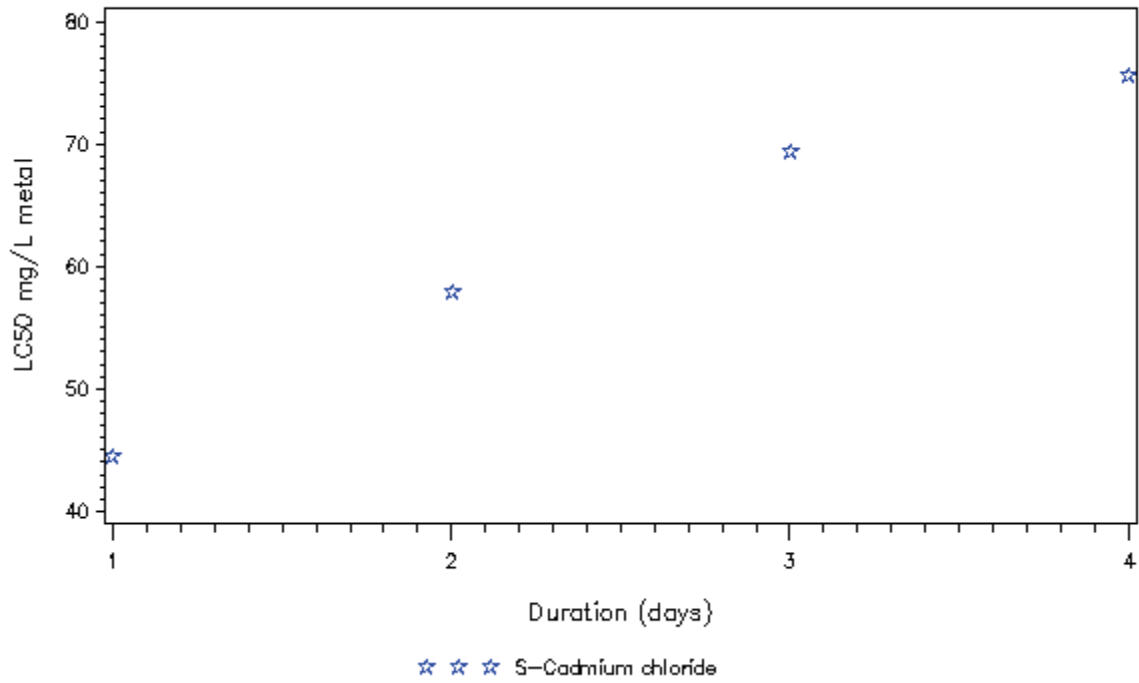


Nothobranchius guentheri exposed to Cadmium at $T > 15^\circ\text{C}$ in soft water

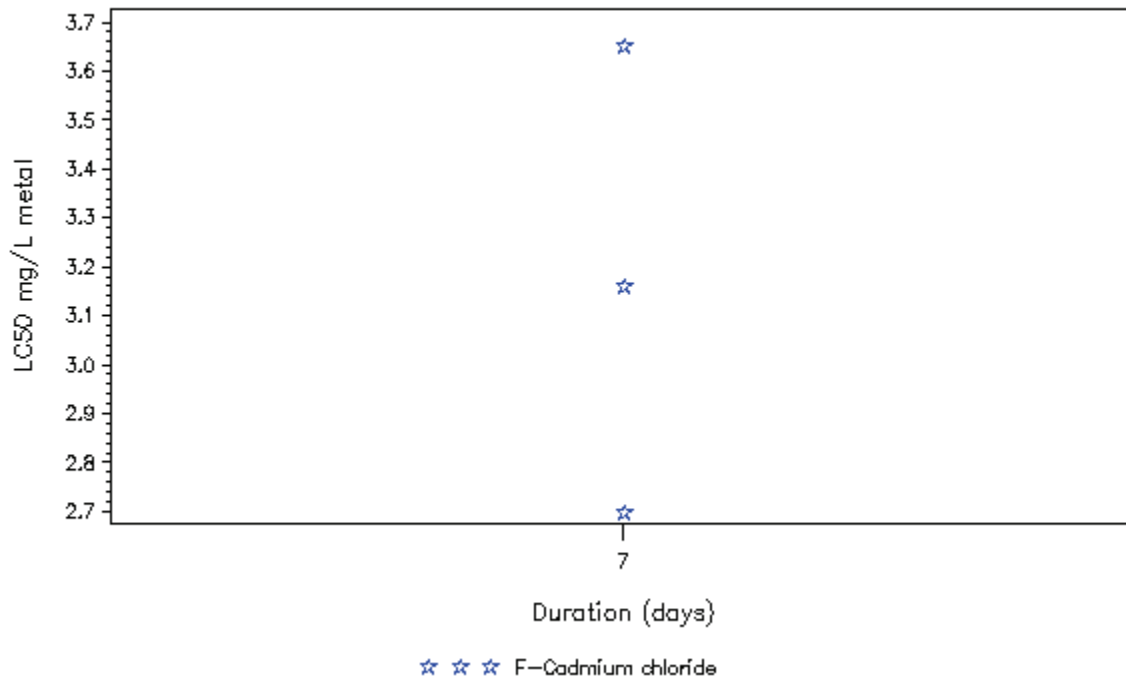


S – Static Test, F – Flowthrough Test, R –Renewal Test

Notopterus notopterus exposed to Cadmium at T>15C in very hard water

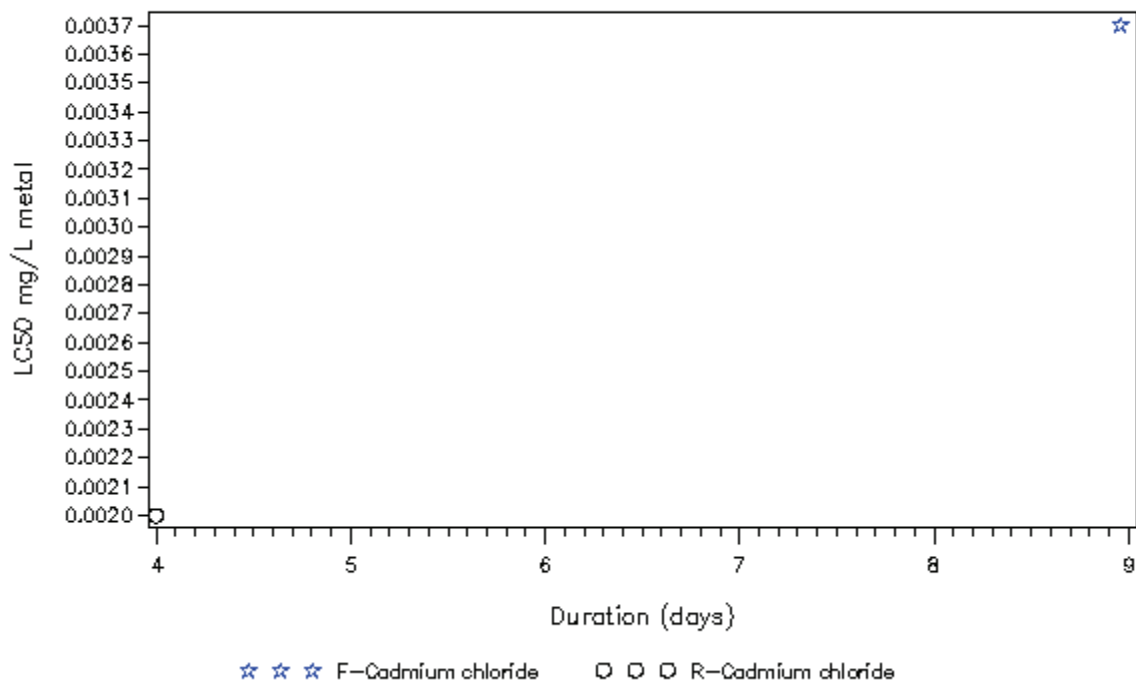


Oncorhynchus gorbuscha exposed to Cadmium at T<=15C in moderate water

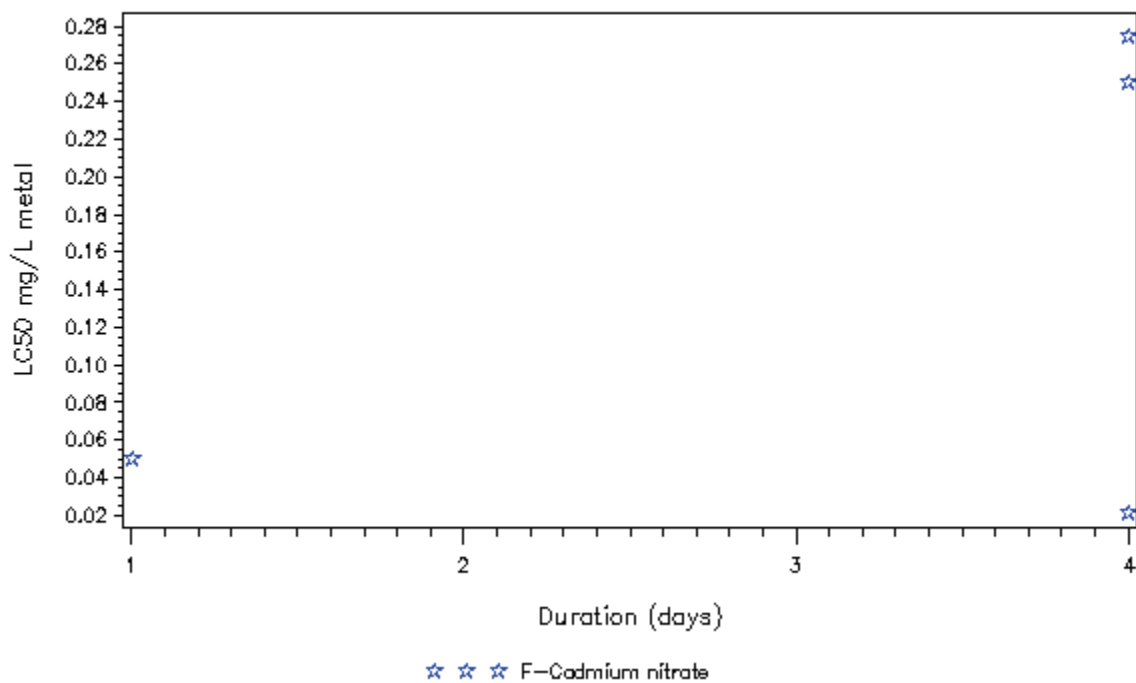


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus kisutch exposed to Cadmium at T<=15C in soft water

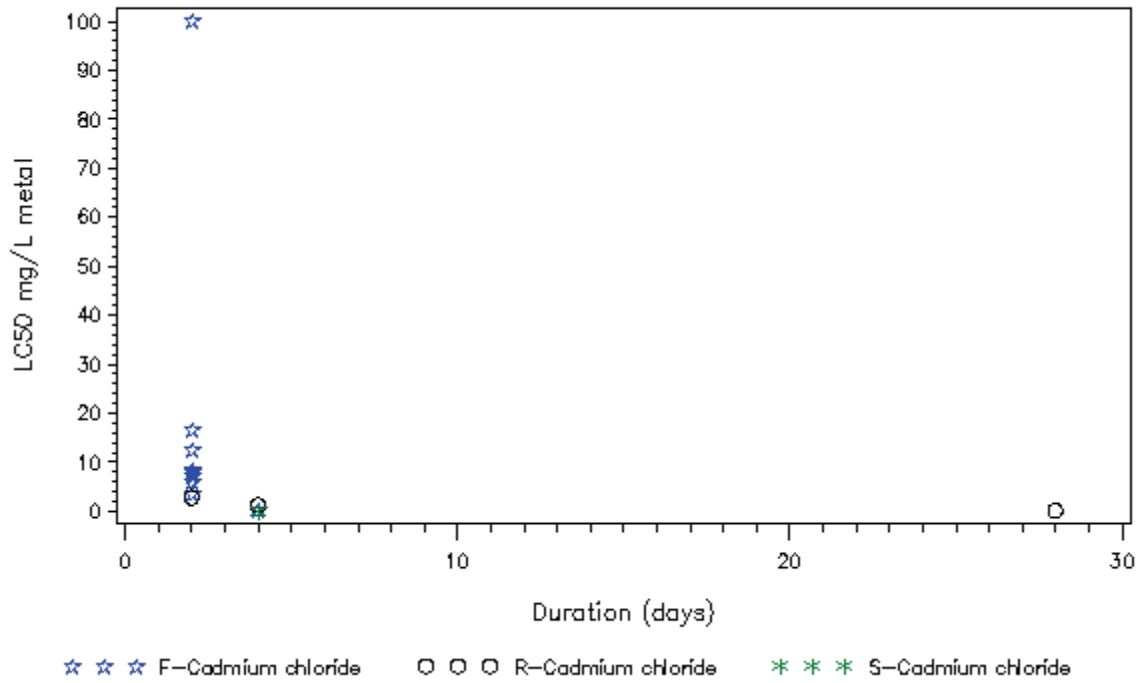


Oncorhynchus mykiss exposed to Cadmium at T<=15C in hard water

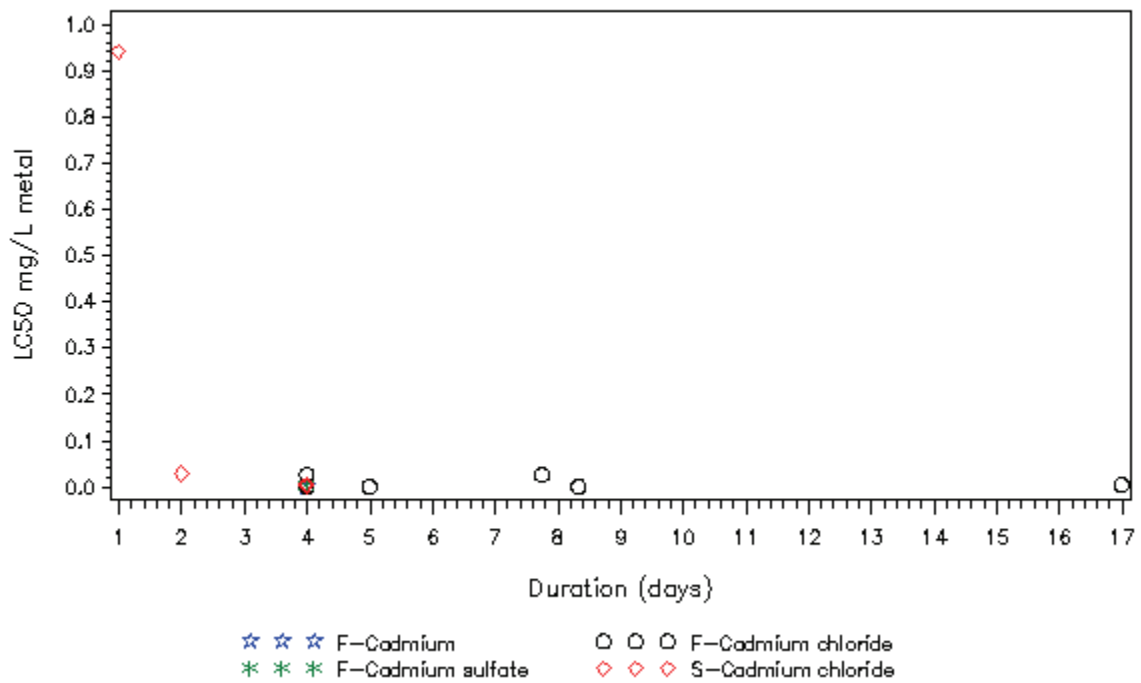


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Cadmium at T<=15C in moderate water

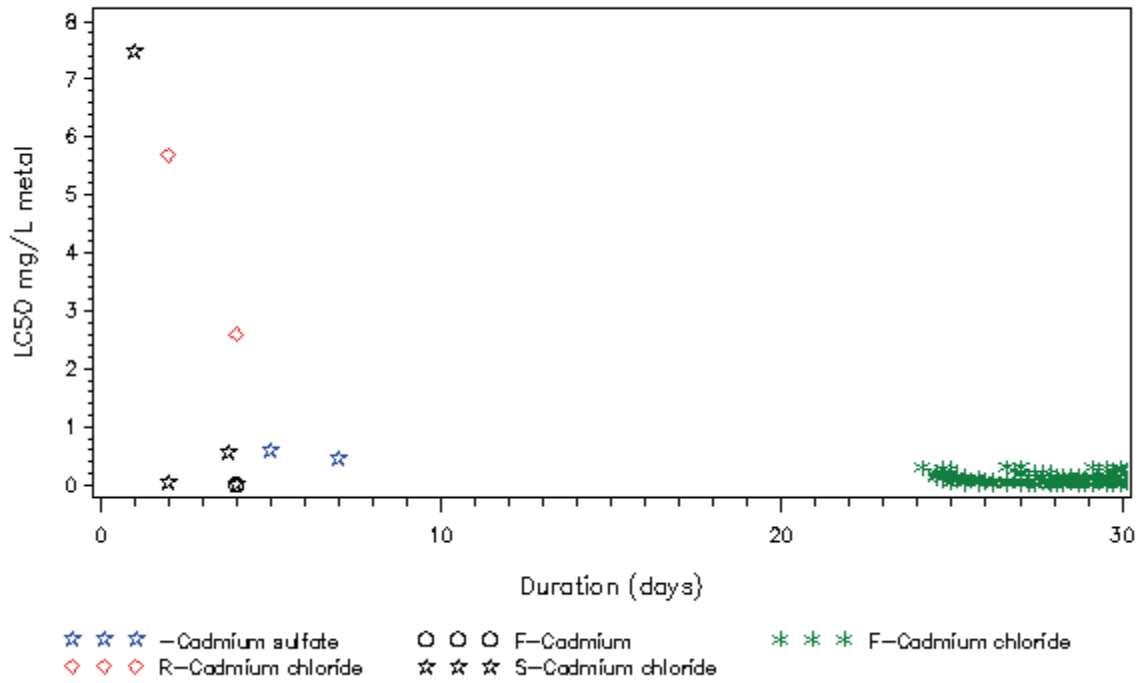


Oncorhynchus mykiss exposed to Cadmium at T<=15C in soft water

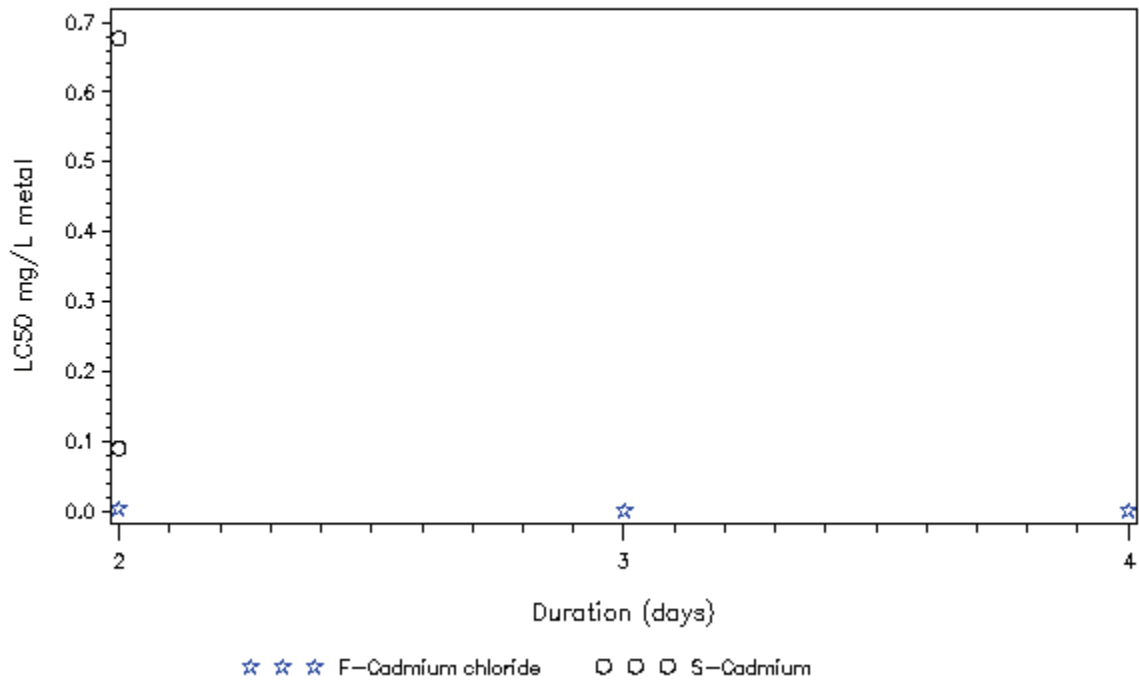


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Cadmium at T<=15C in very hard water

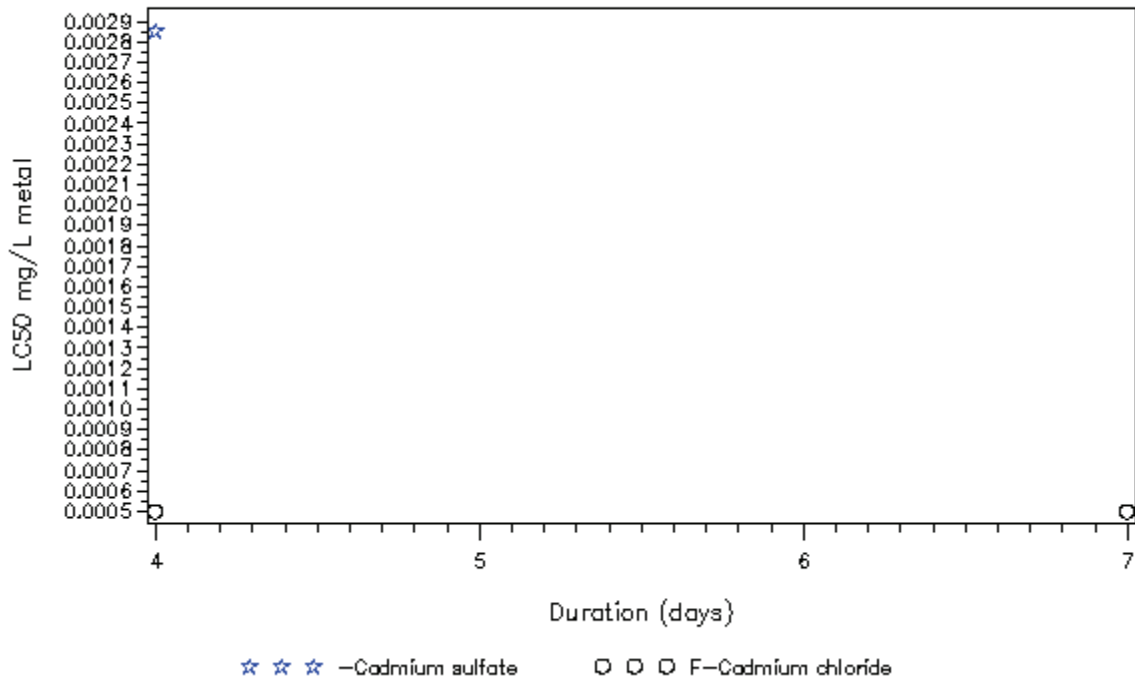


Oncorhynchus mykiss exposed to Cadmium at T>15C in soft water

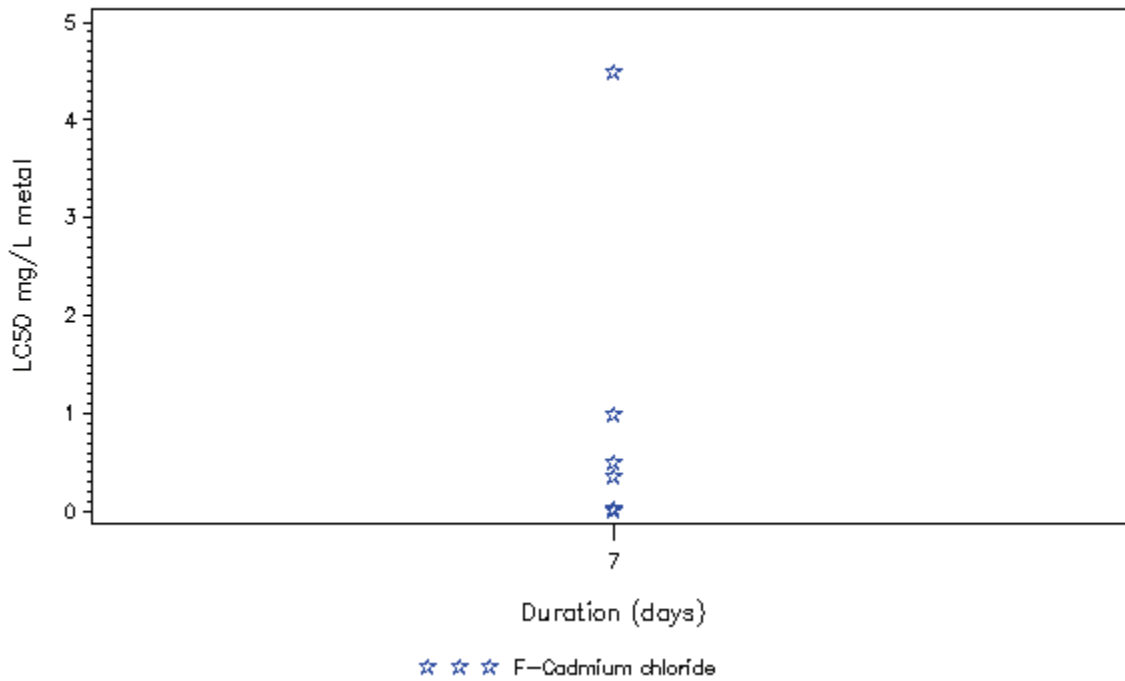


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Cadmium at T>15C in very soft water

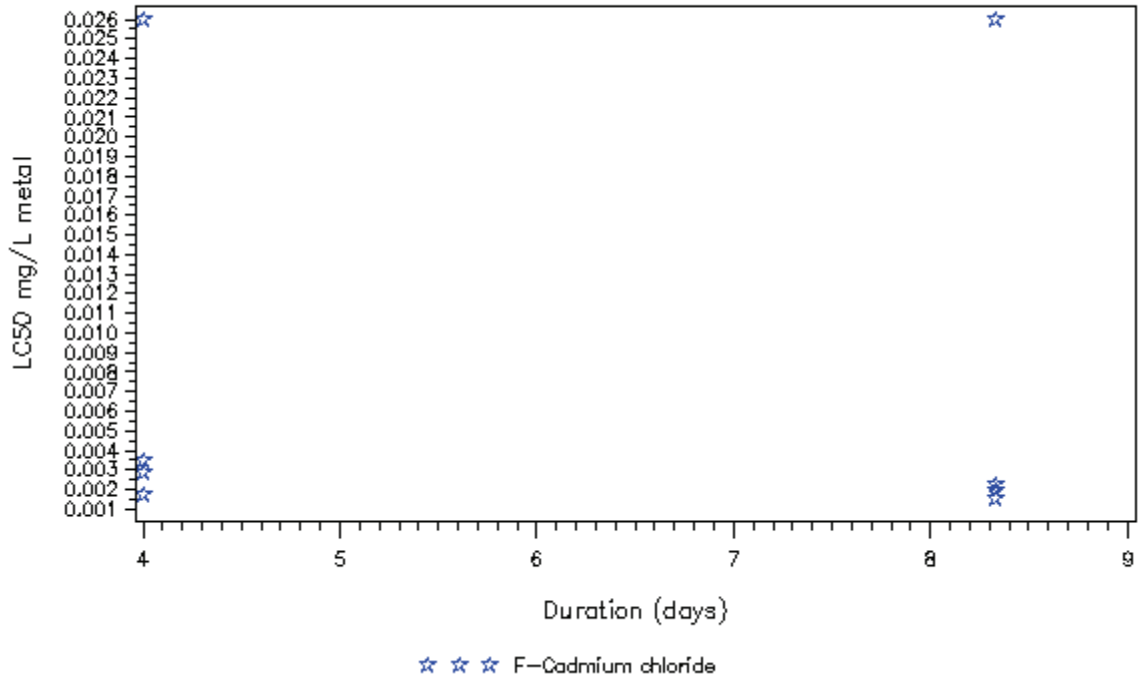


Oncorhynchus nerka exposed to Cadmium at T<=15C in moderate water

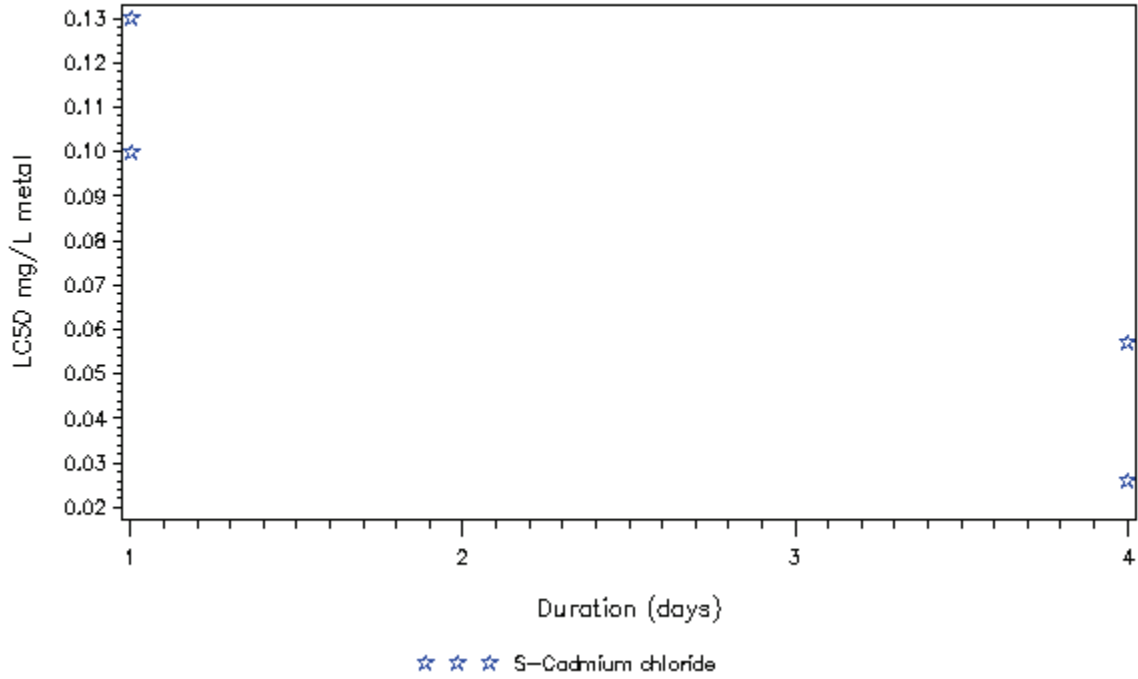


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus tshawytscha exposed to Cadmium at T<=15C in soft water

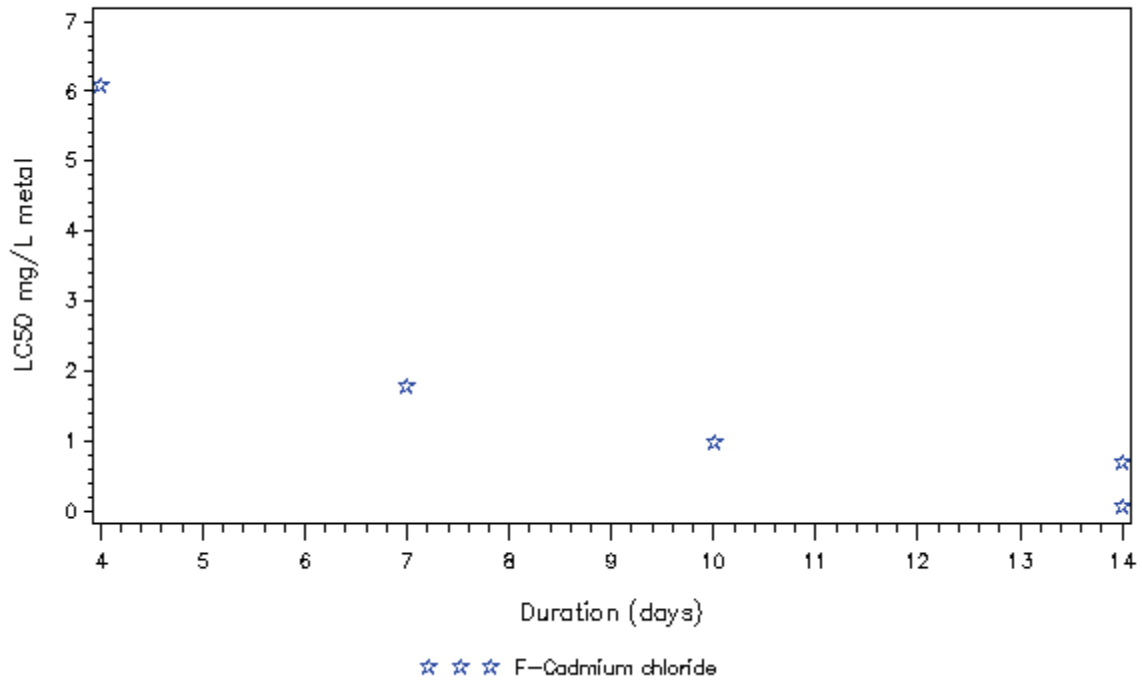


Oncorhynchus tshawytscha exposed to Cadmium at T<=15C in very hard water

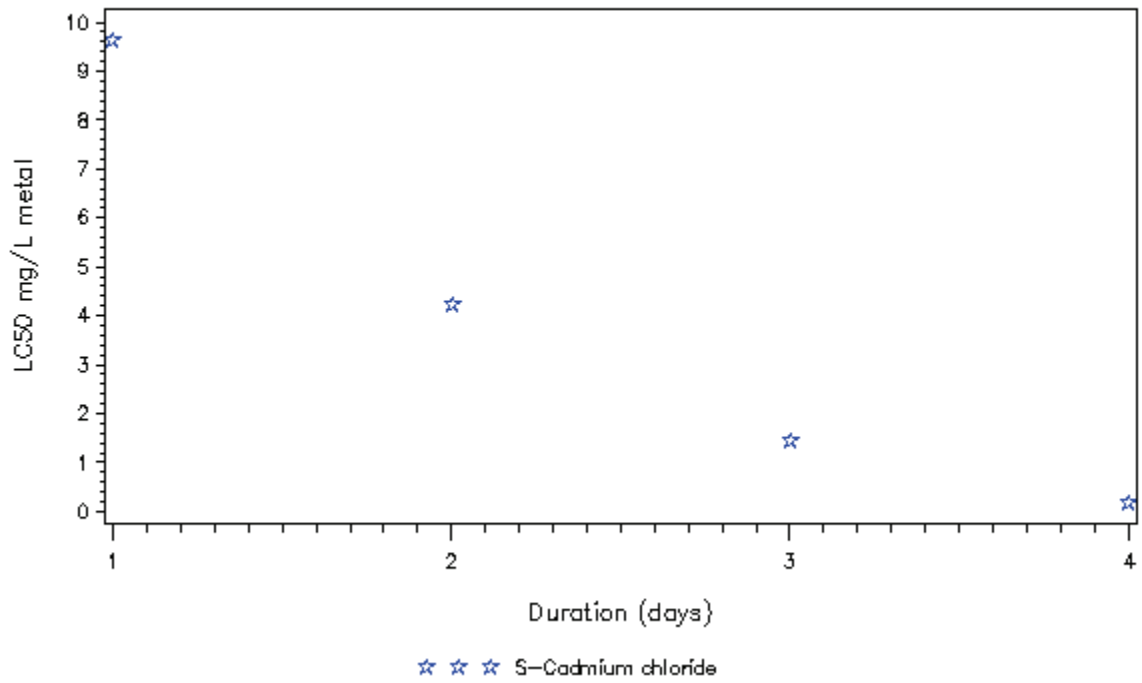


S – Static Test, F – Flowthrough Test, R –Renewal Test

Orconectes virilis exposed to Cadmium at T>15C in soft water

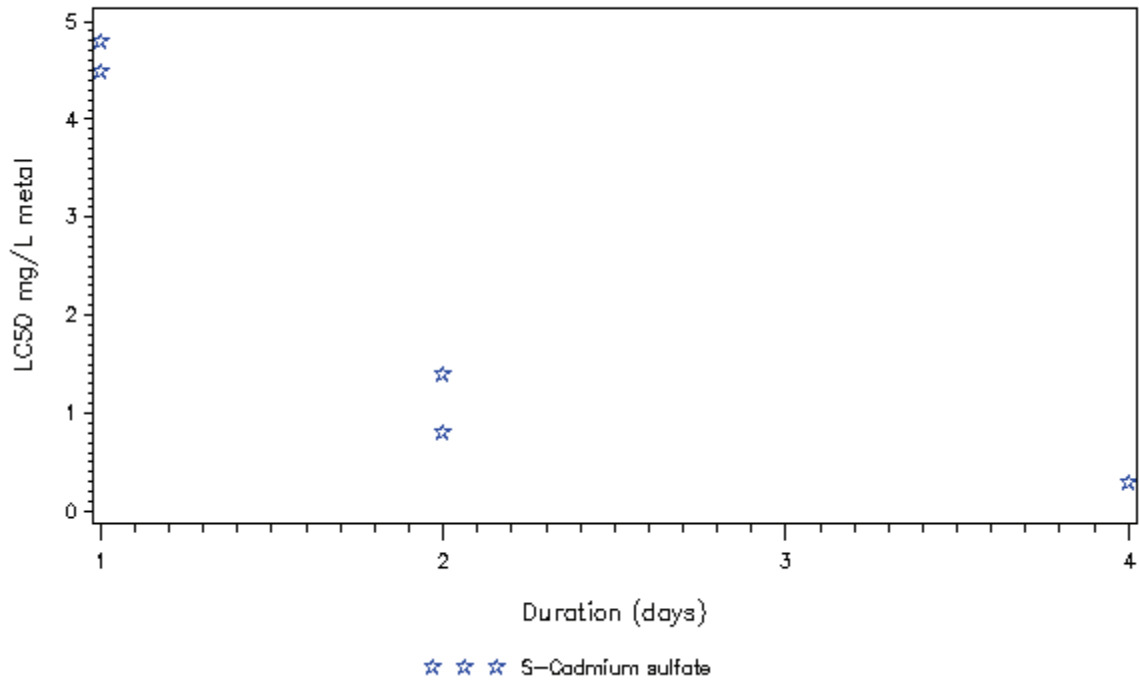


Paratelphusa hydrodromus exposed to Cadmium at T>15C in hard water

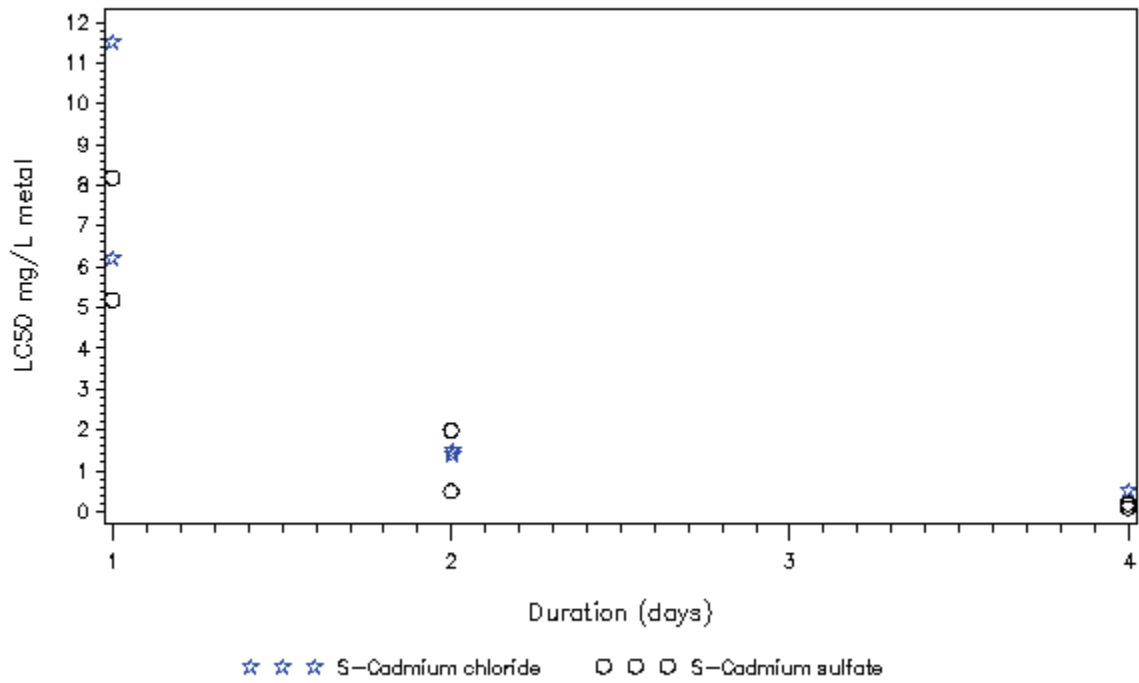


S – Static Test, F – Flowthrough Test, R –Renewal Test

Philodina acuticornis exposed to Cadmium at T>15C in moderate water

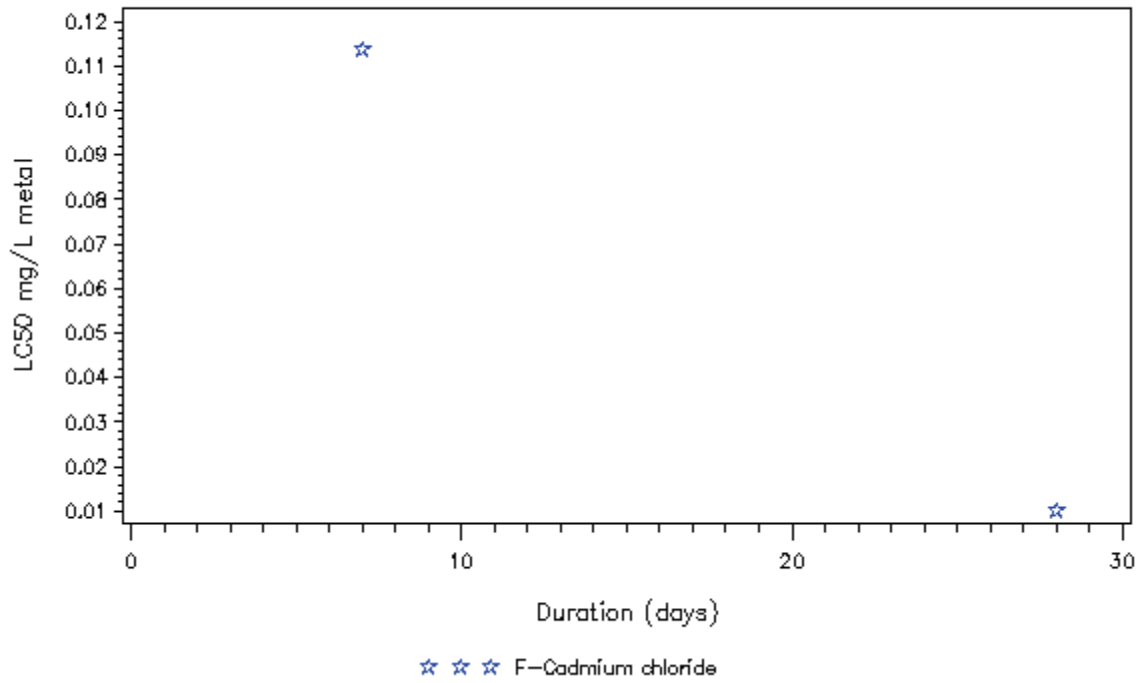


Philodina acuticornis exposed to Cadmium at T>15C in soft water

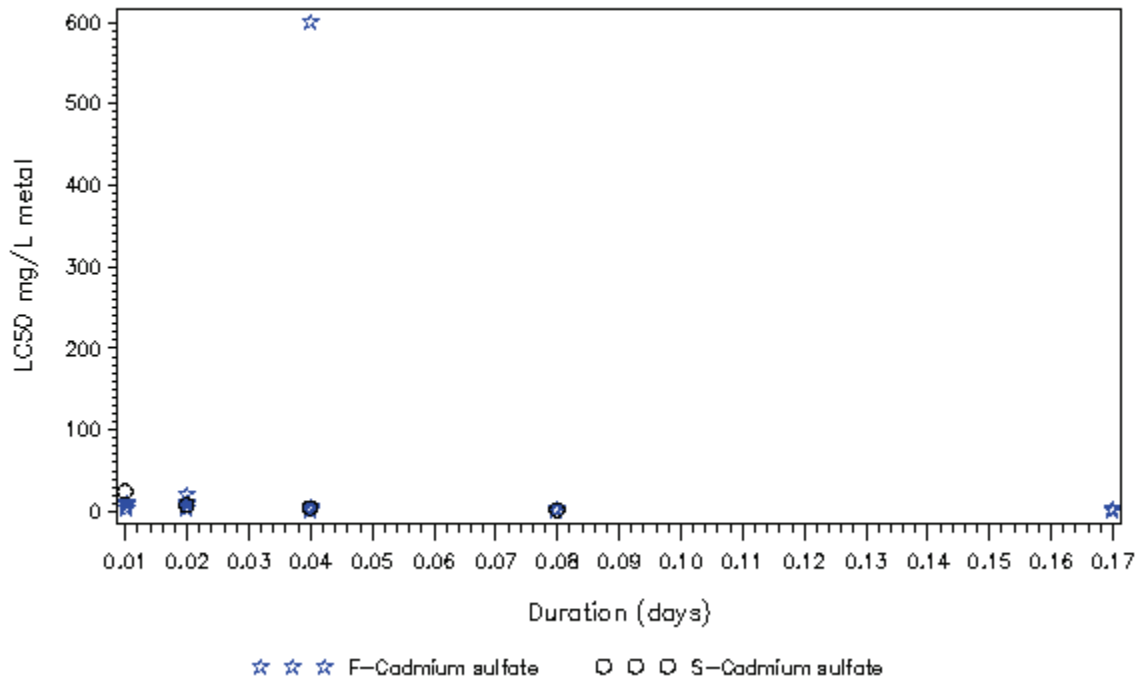


S – Static Test, F – Flowthrough Test, R –Renewal Test

Physa integra exposed to Cadmium at T<=15C in soft water

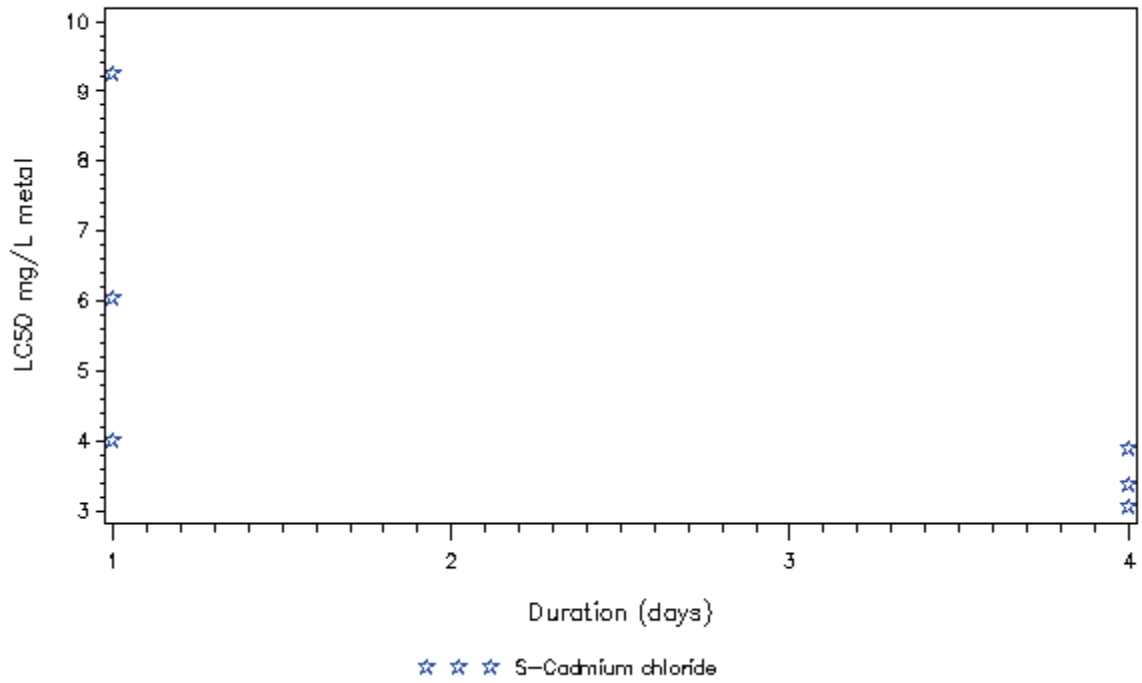


Pimephales promelas exposed to Cadmium at T>15C in hard water

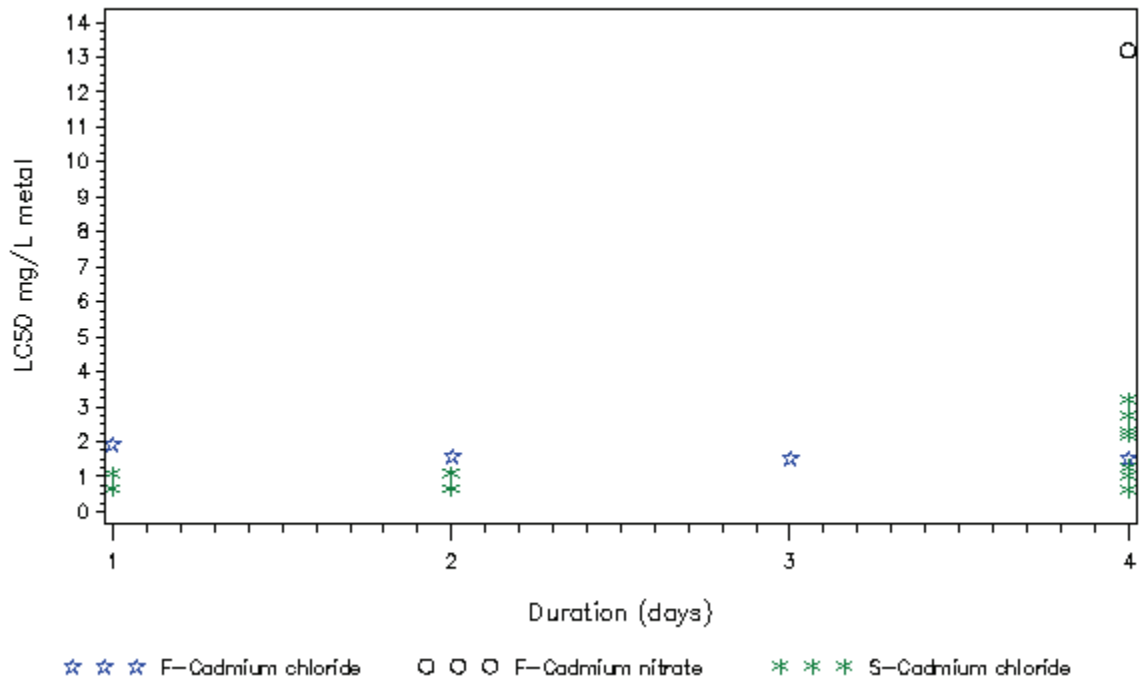


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Cadmium at T>15C in moderate water

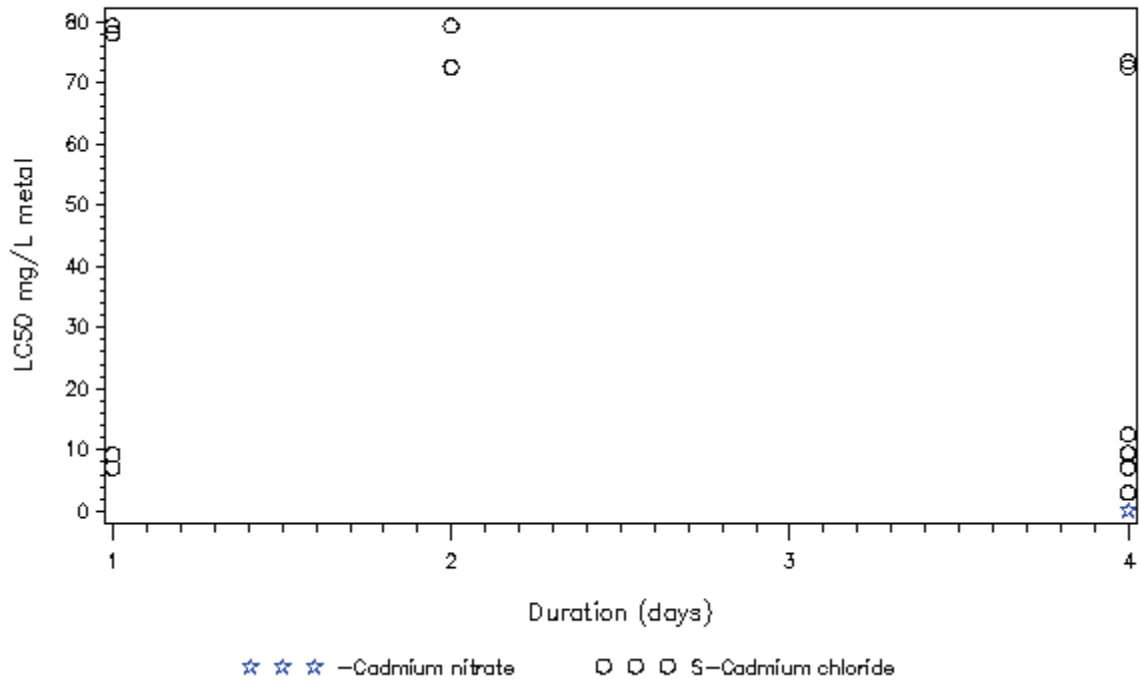


Pimephales promelas exposed to Cadmium at T>15C in soft water

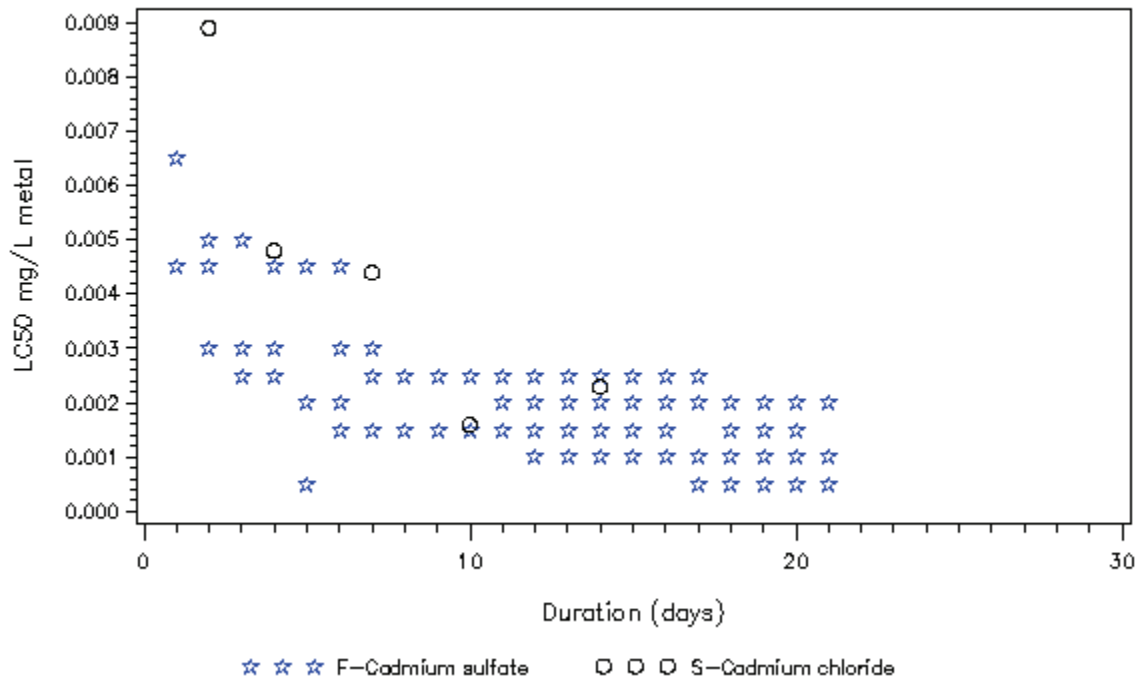


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Cadmium at T>15C in very hard water

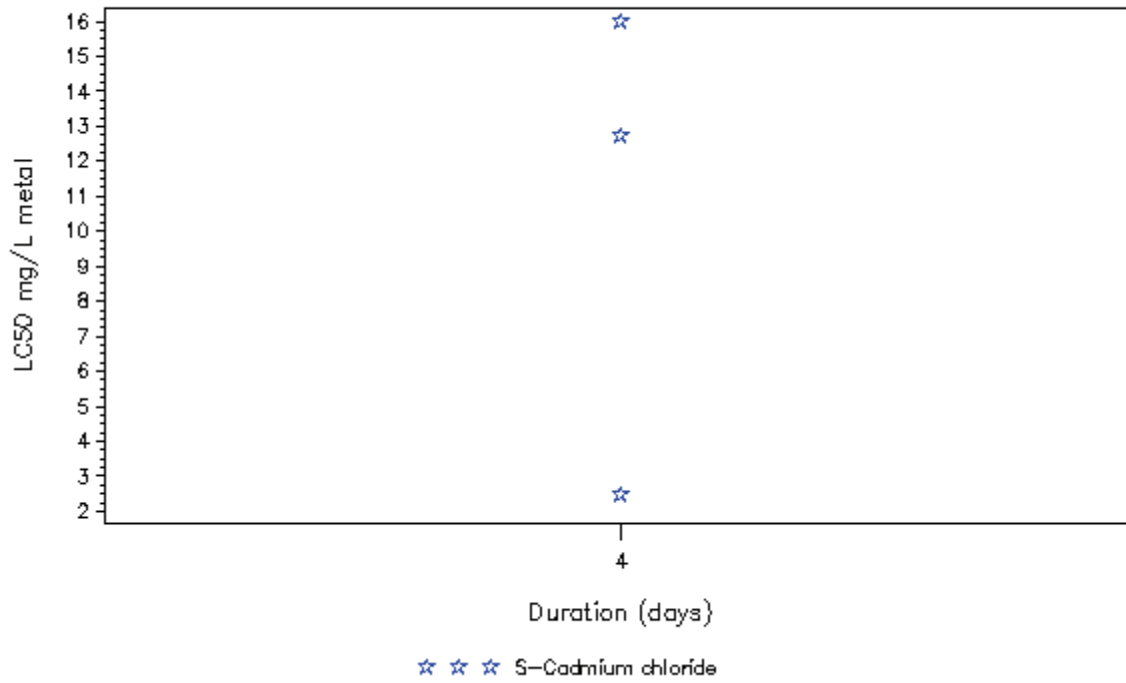


Pimephales promelas exposed to Cadmium at T>15C in very soft water

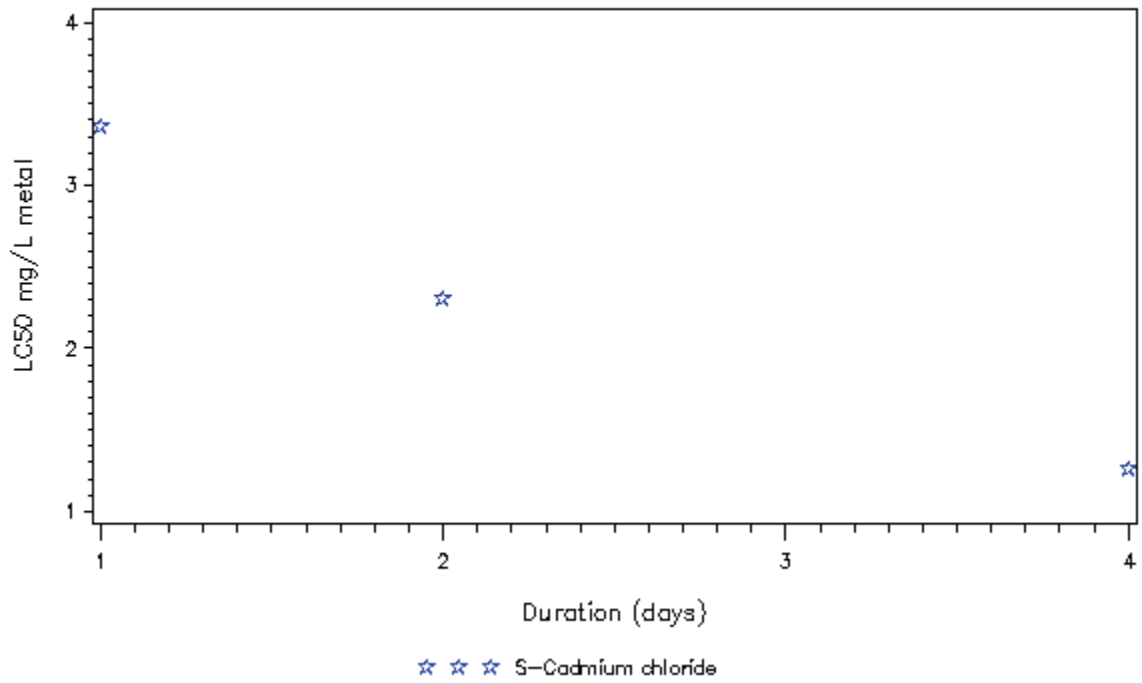


S – Static Test, F – Flowthrough Test, R –Renewal Test

Poecilia reticulata exposed to Cadmium at T>15C in hard water

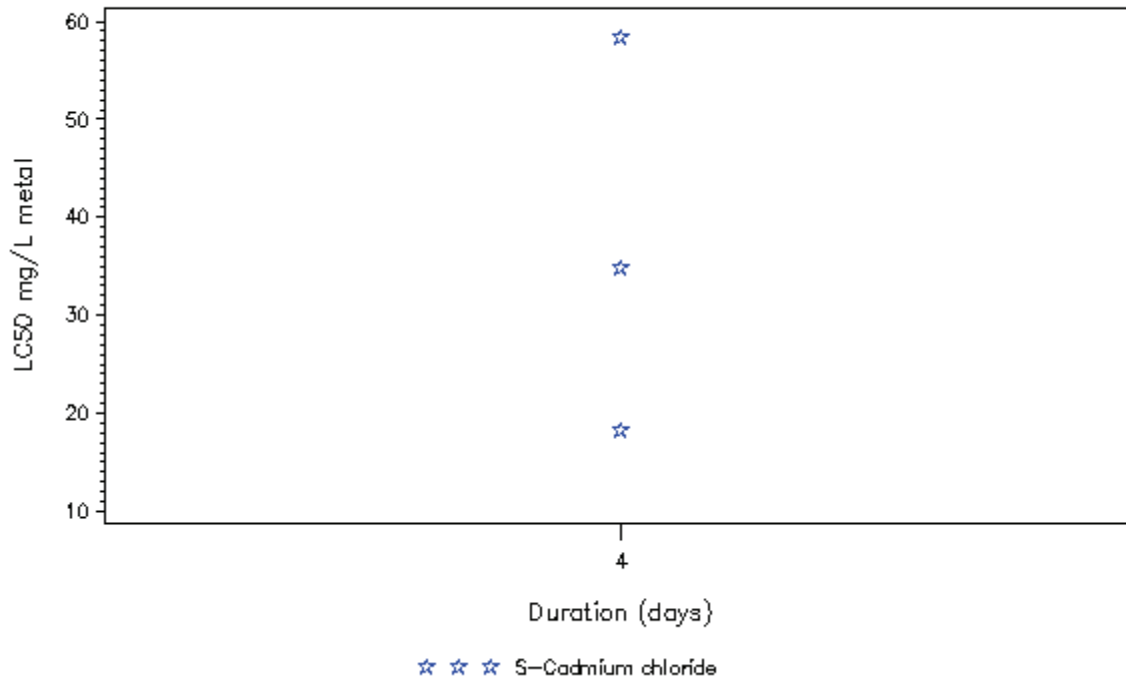


Poecilia reticulata exposed to Cadmium at T>15C in soft water

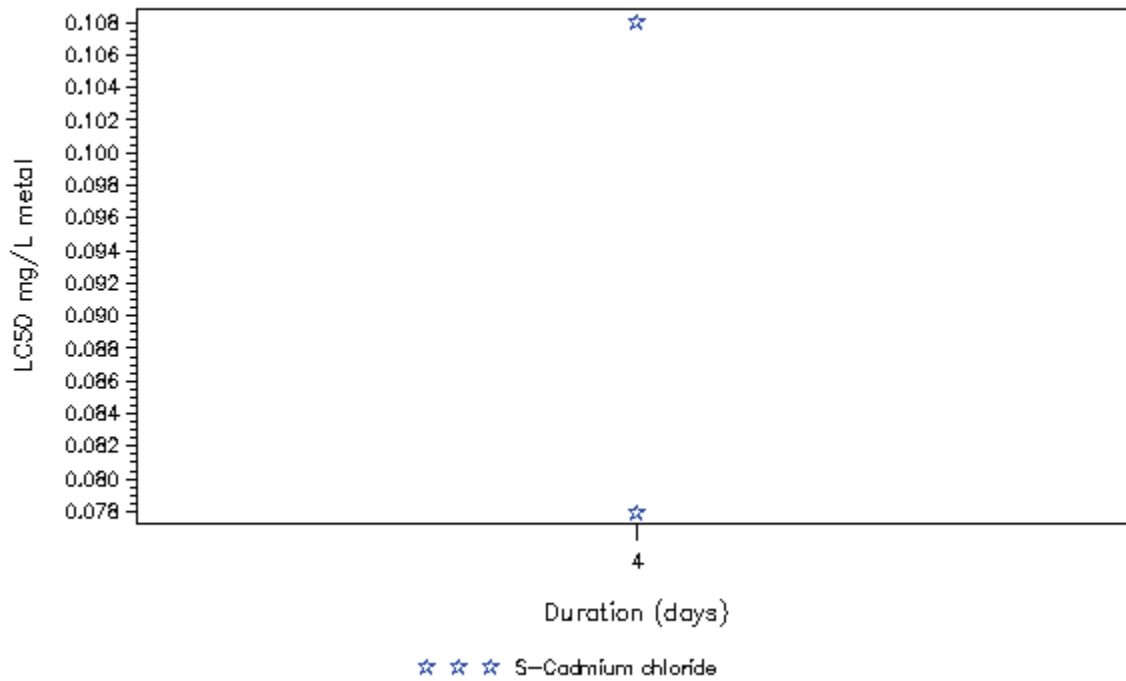


S – Static Test, F – Flowthrough Test, R –Renewal Test

Procambarus clarkii exposed to Cadmium at T>15C in very hard water

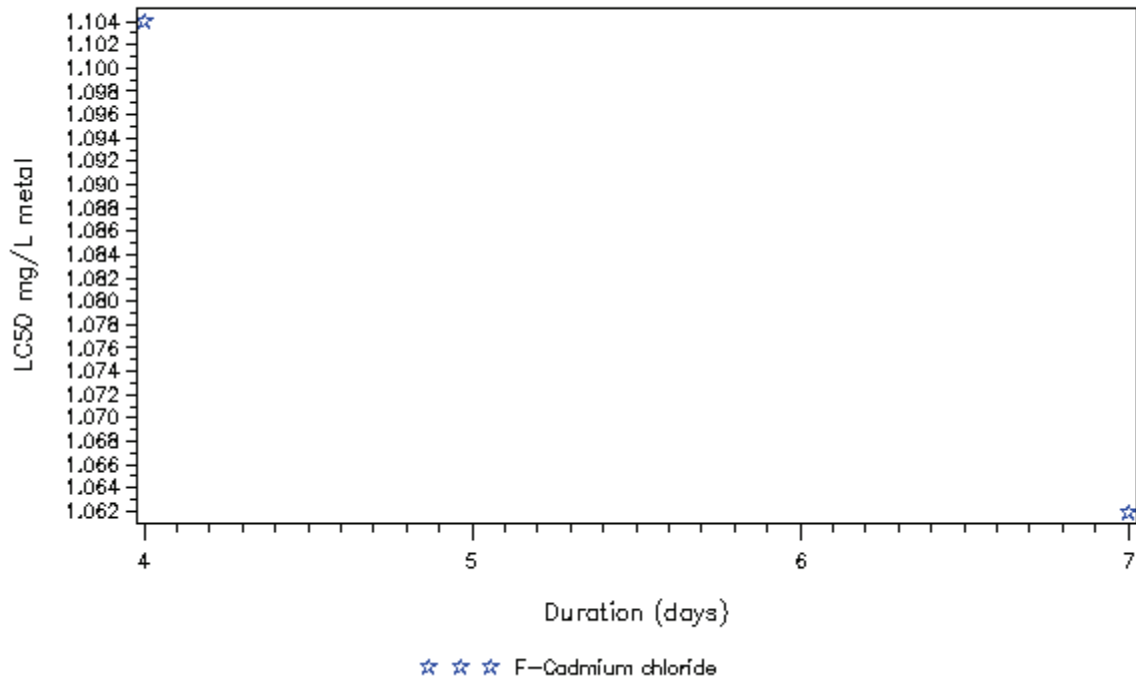


Ptychocheilus lucius exposed to Cadmium at T>15C in very hard water

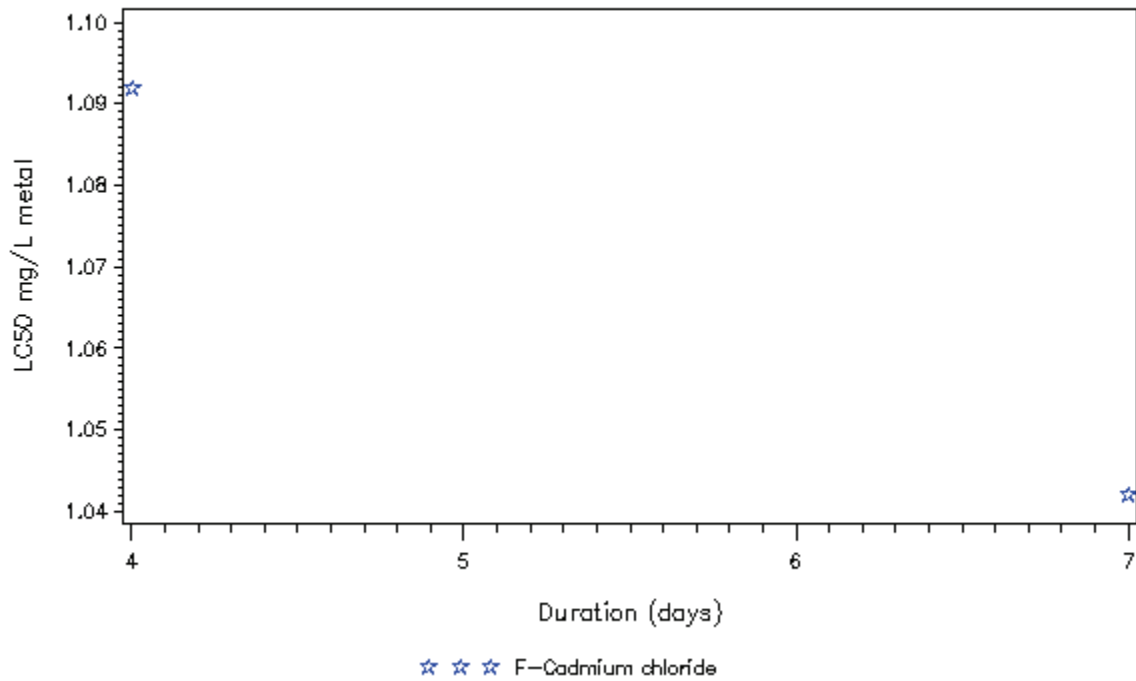


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ptychocheilus oregonensis exposed to Cadmium at T<=15C in soft water

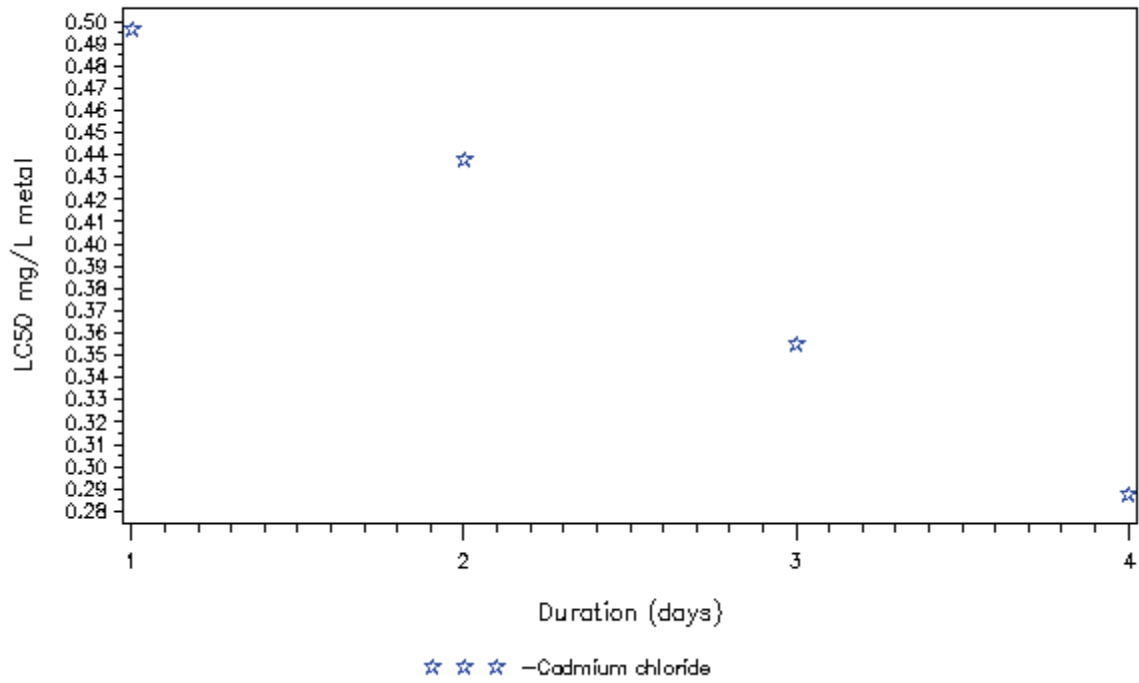


Ptychocheilus oregonensis exposed to Cadmium at T>15C in soft water

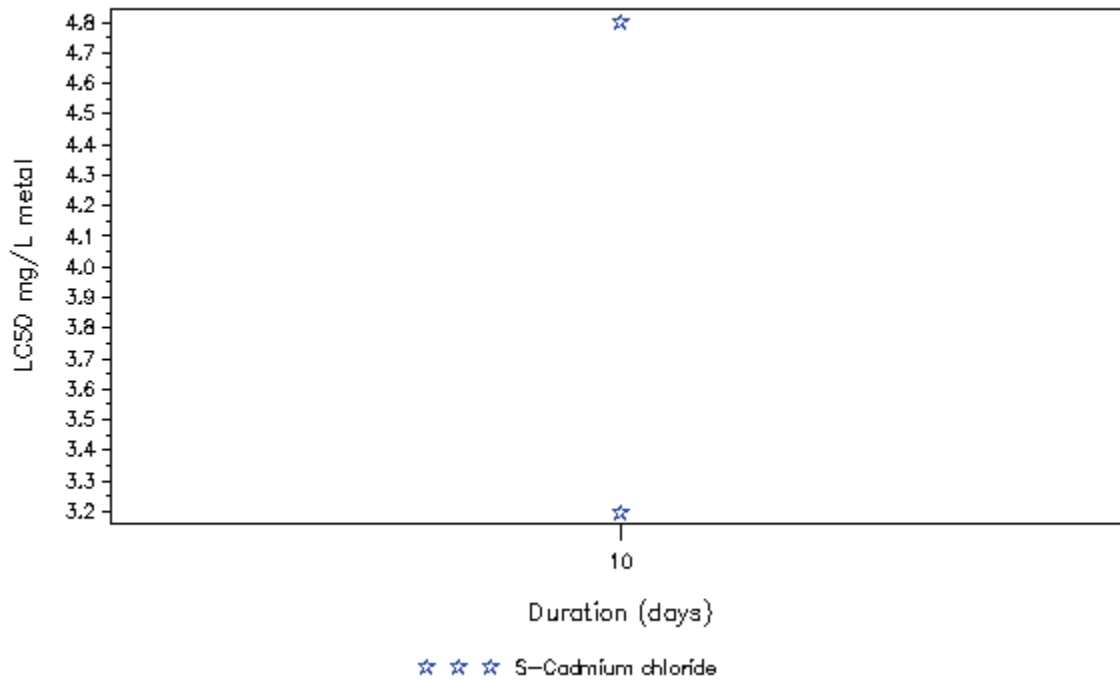


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ranatra elongata exposed to Cadmium at T>15C in moderate water

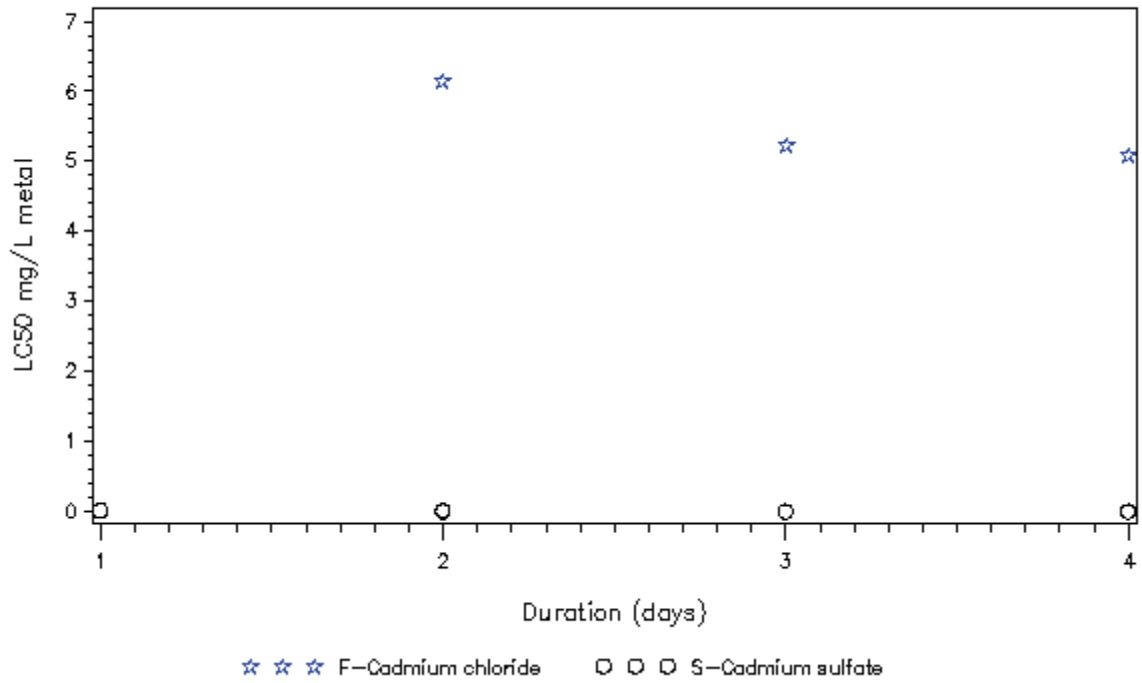


Salmo salar exposed to Cadmium at T<=15C in soft water

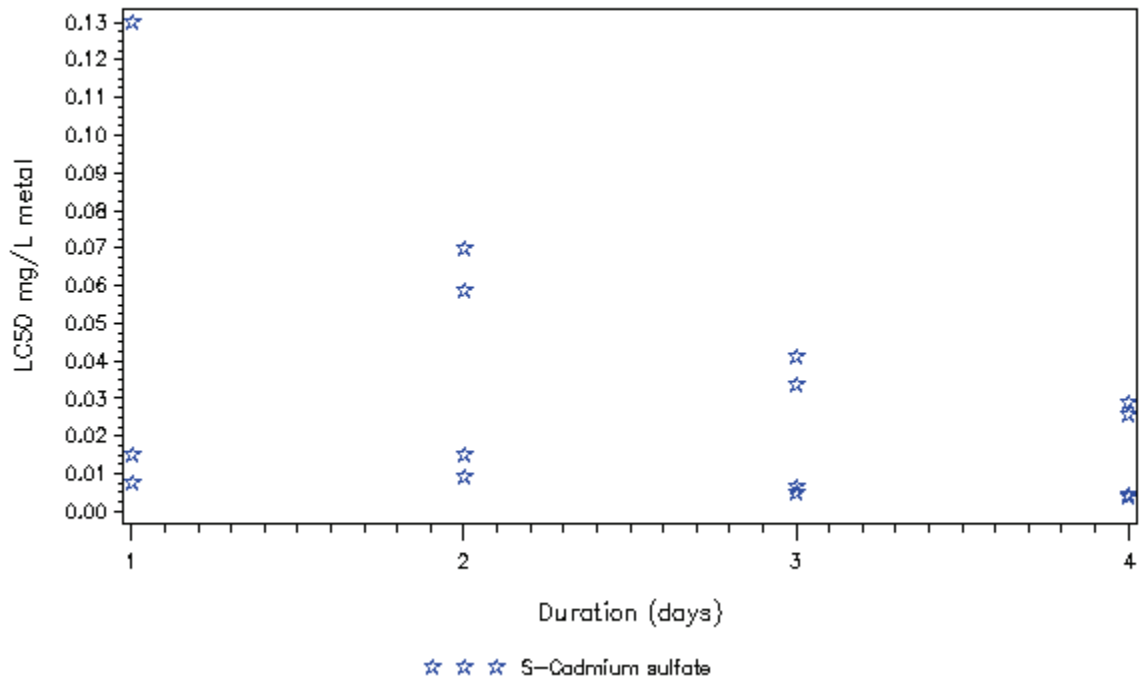


S – Static Test, F – Flowthrough Test, R –Renewal Test

Salvelinus fontinalis exposed to Cadmium at T<=15C in soft water

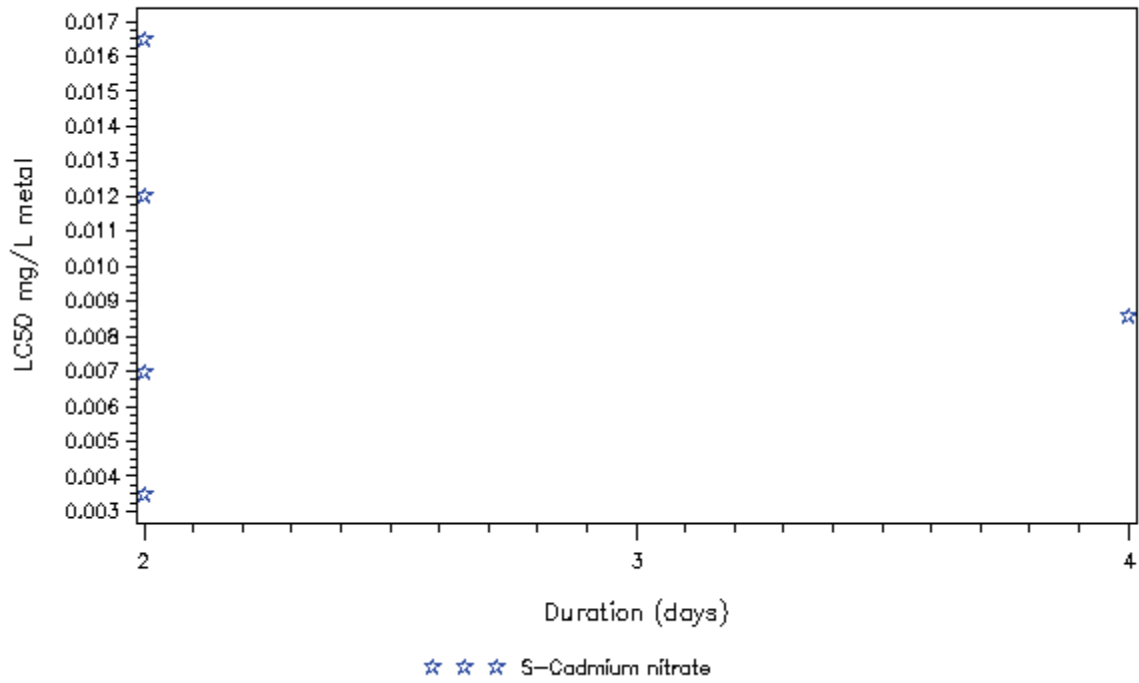


Salvelinus fontinalis exposed to Cadmium at T<=15C in very hard water

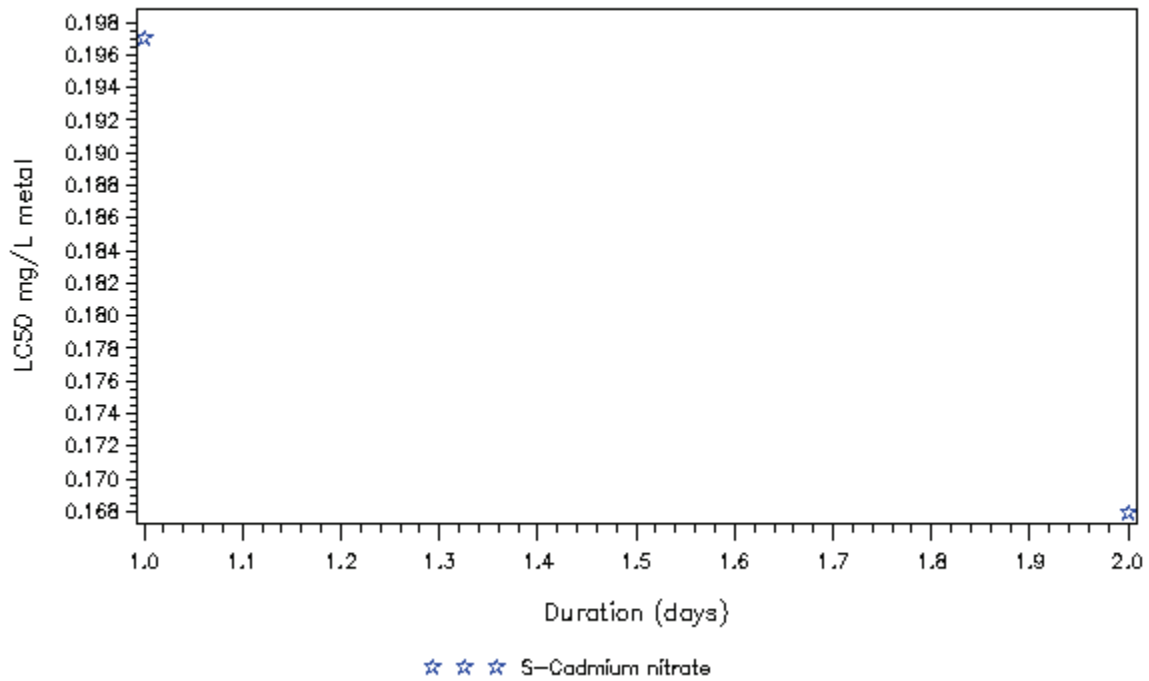


S – Static Test, F – Flowthrough Test, R –Renewal Test

Simocephalus serrulatus exposed to Cadmium at T>15C in very soft water

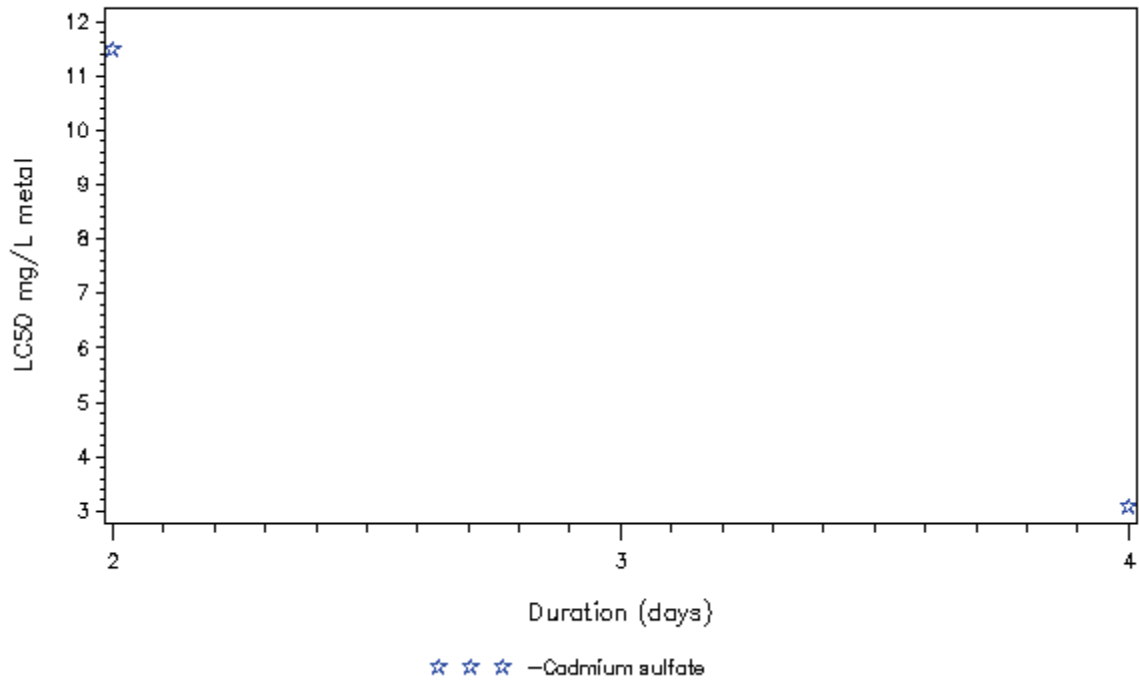


Spirostomum ambiguum exposed to Cadmium at T>15C in very soft water

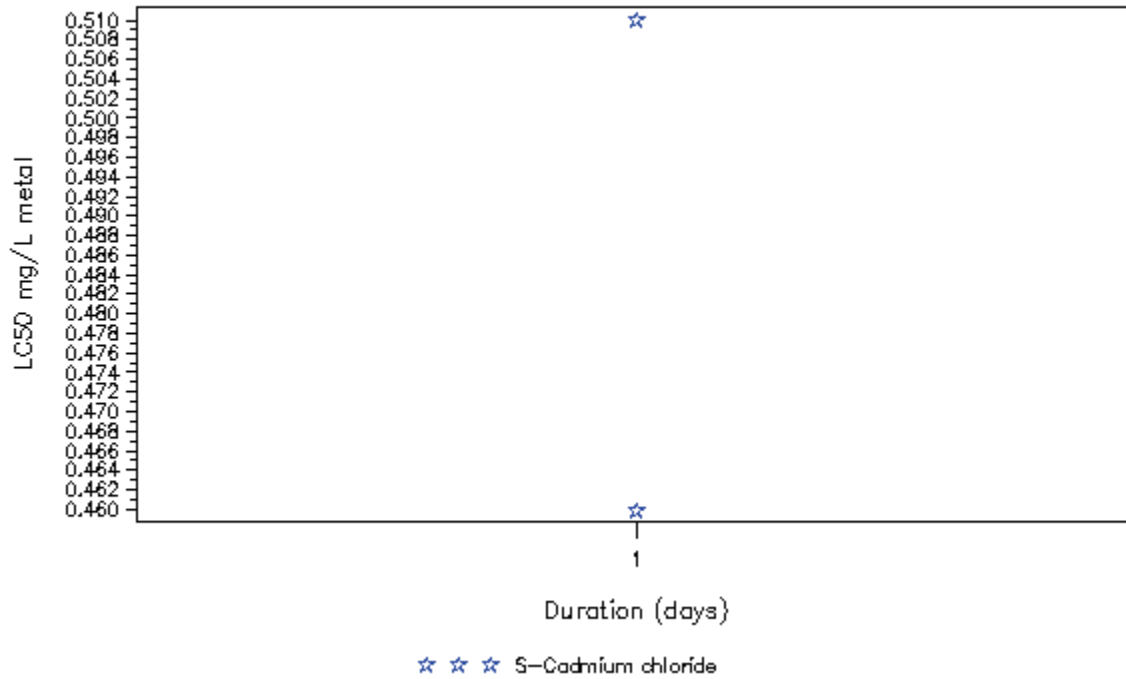


S – Static Test, F – Flowthrough Test, R –Renewal Test

Stenocypris malcolmsoni exposed to Cadmium at T>15C in soft water

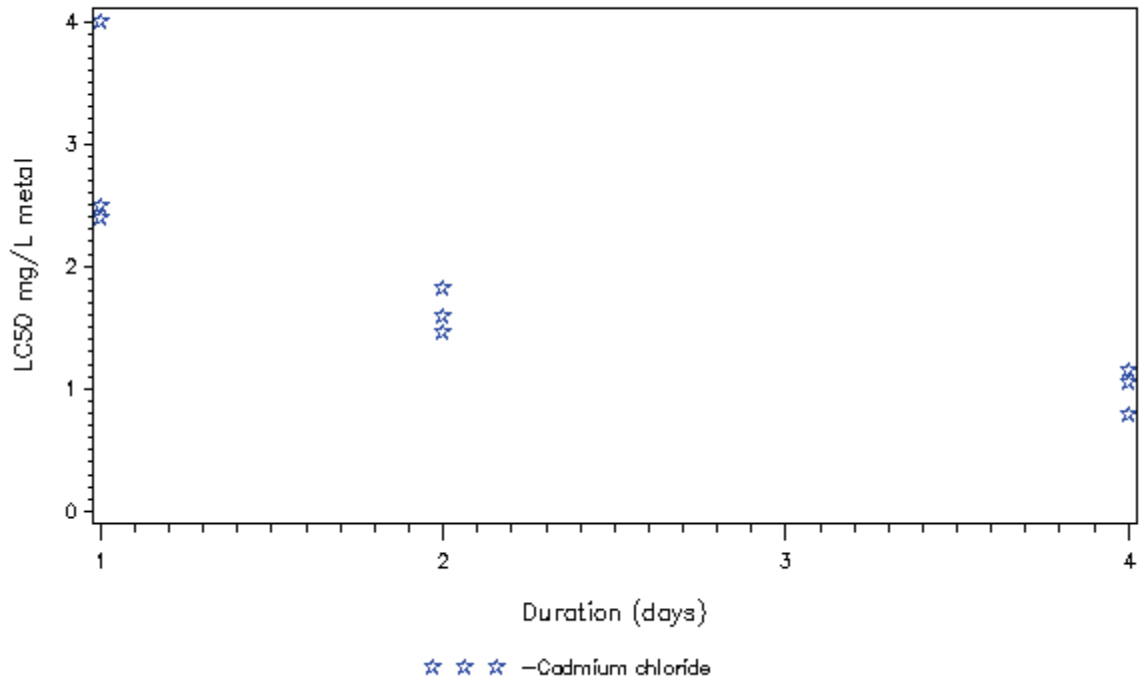


Streptocephalus proboscideus exposed to Cadmium at T>15C in moderate water

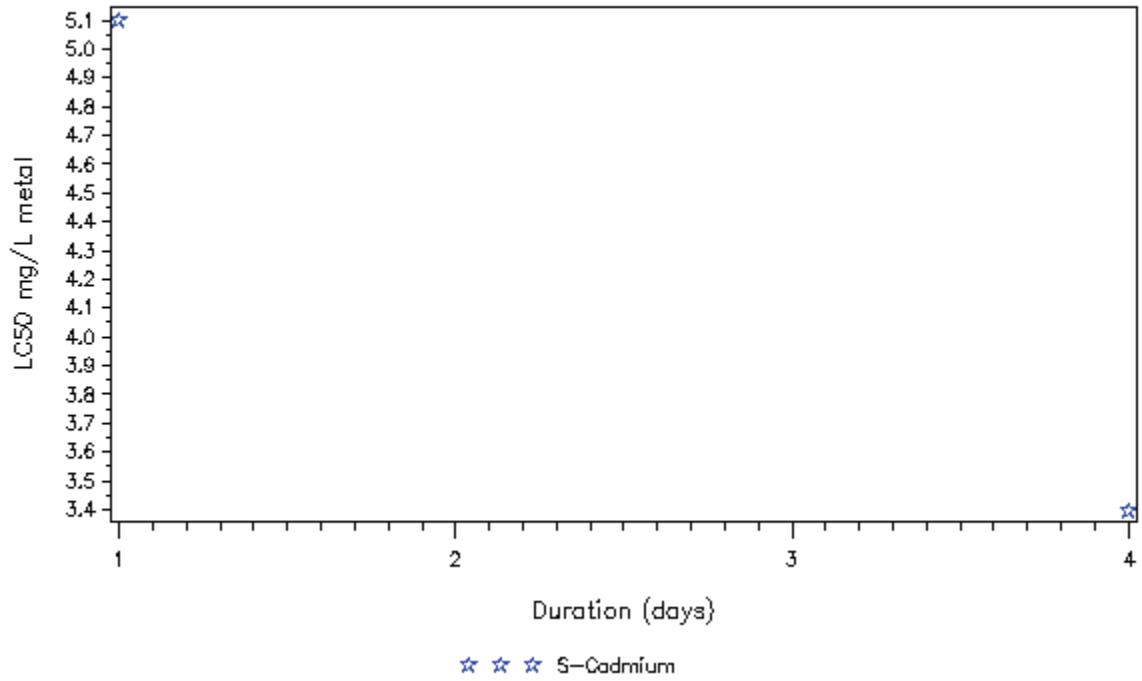


S – Static Test, F – Flowthrough Test, R –Renewal Test

Trichodrilus tenuis exposed to Cadmium at T<=15C in moderate water

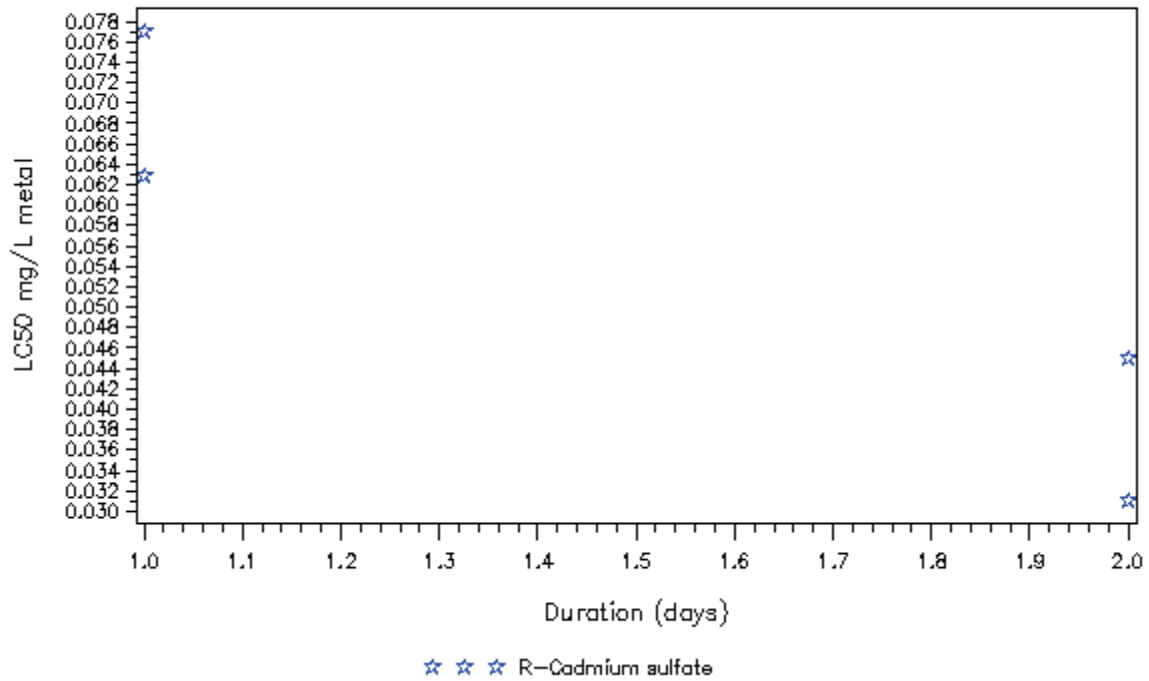


Trichoptera exposed to Cadmium at T>15C in soft water

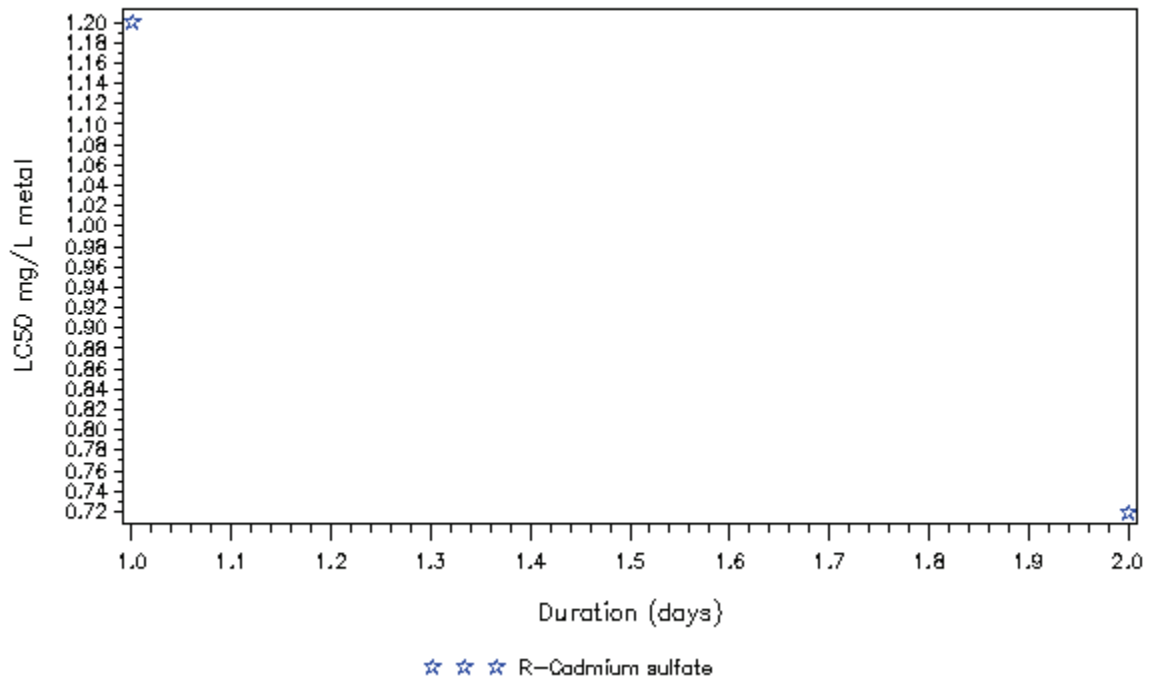


S – Static Test, F – Flowthrough Test, R –Renewal Test

Tubifex tubifex exposed to Cadmium at T>15C in soft water

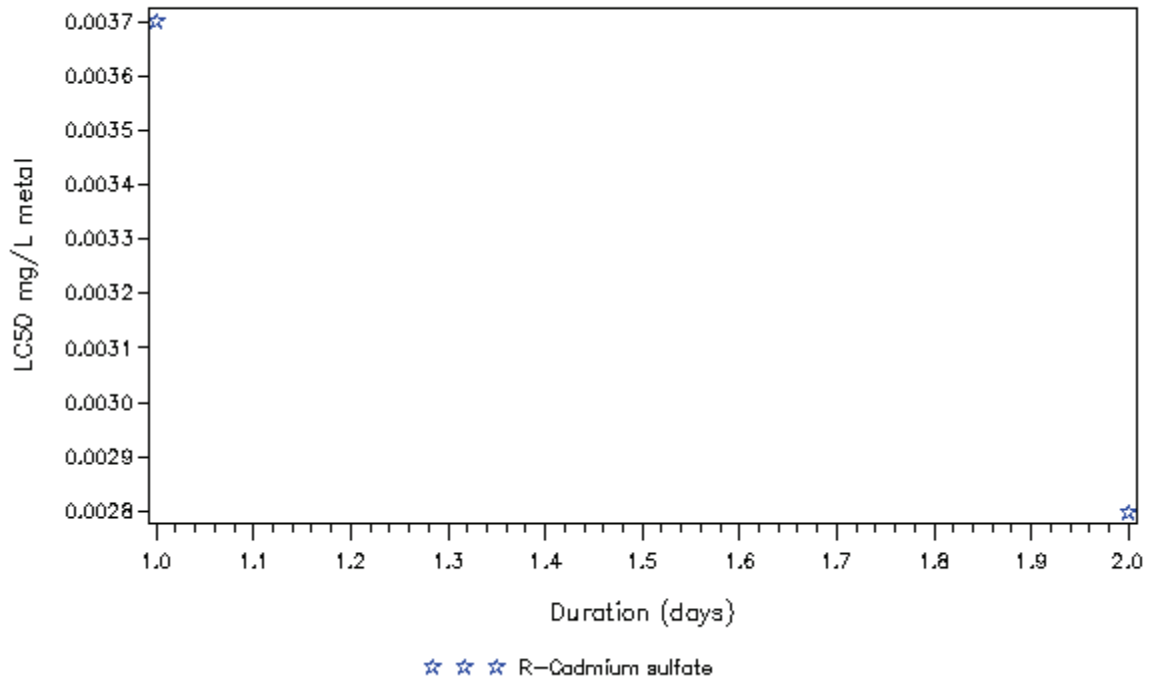


Tubifex tubifex exposed to Cadmium at T>15C in very hard water

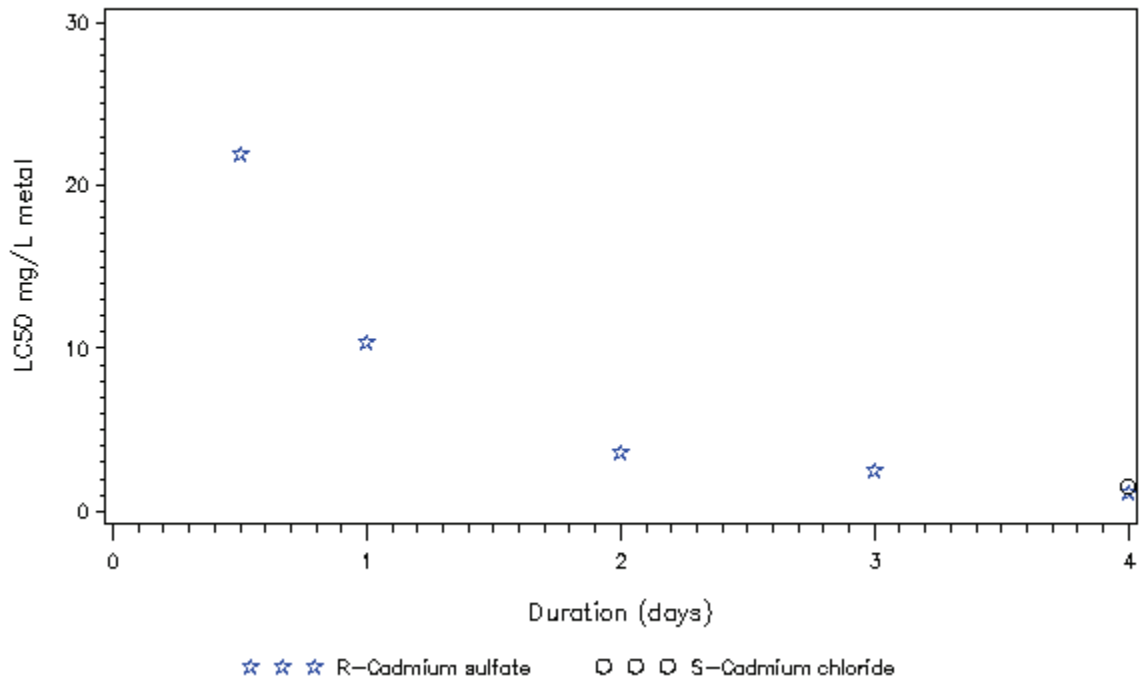


S – Static Test, F – Flowthrough Test, R –Renewal Test

Tubifex tubifex exposed to Cadmium at T>15C in very soft water

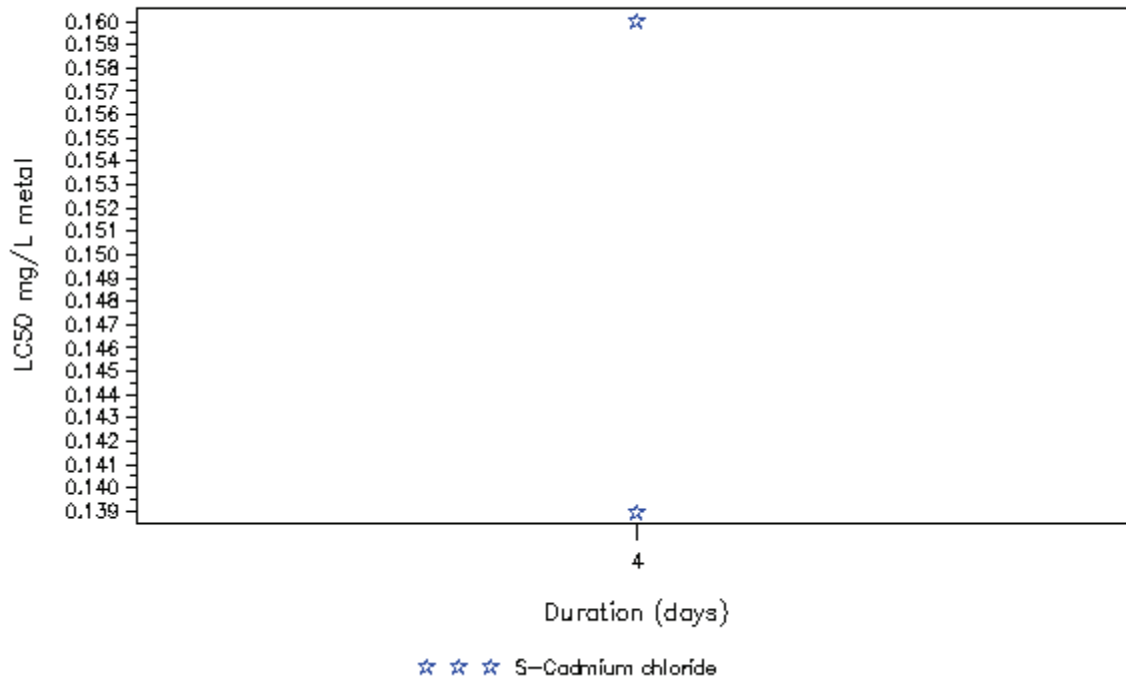


Viviparus bengalensis exposed to Cadmium at T>15C in hard water

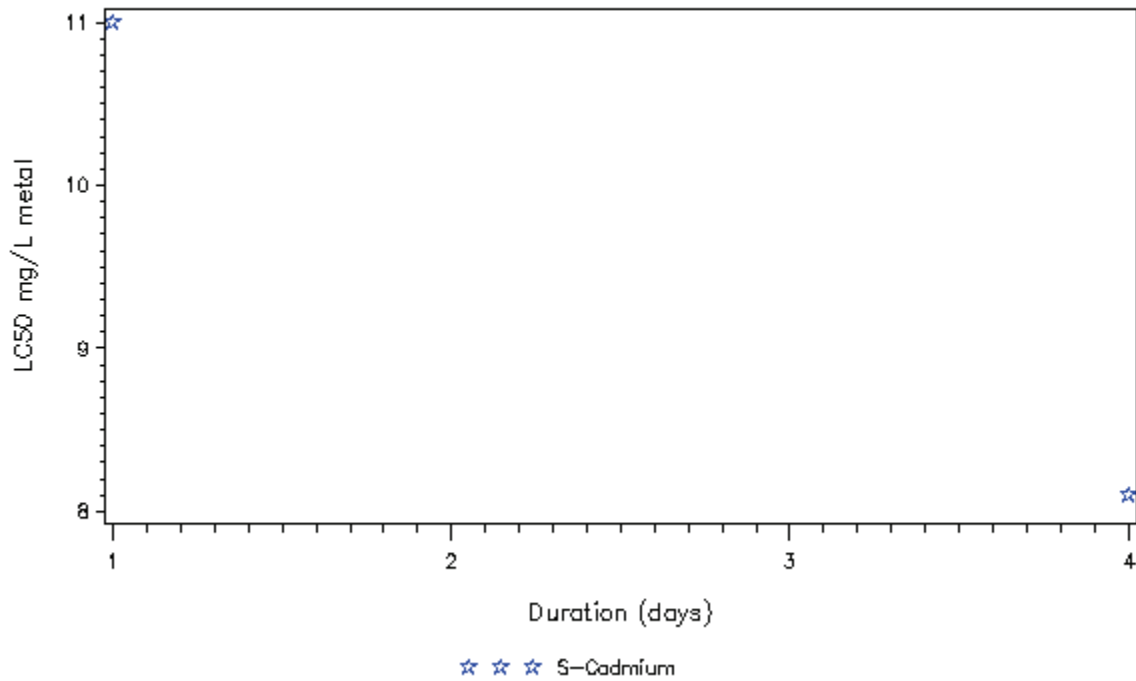


S – Static Test, F – Flowthrough Test, R –Renewal Test

Xyrauchen texanus exposed to Cadmium at T>15C in very hard water

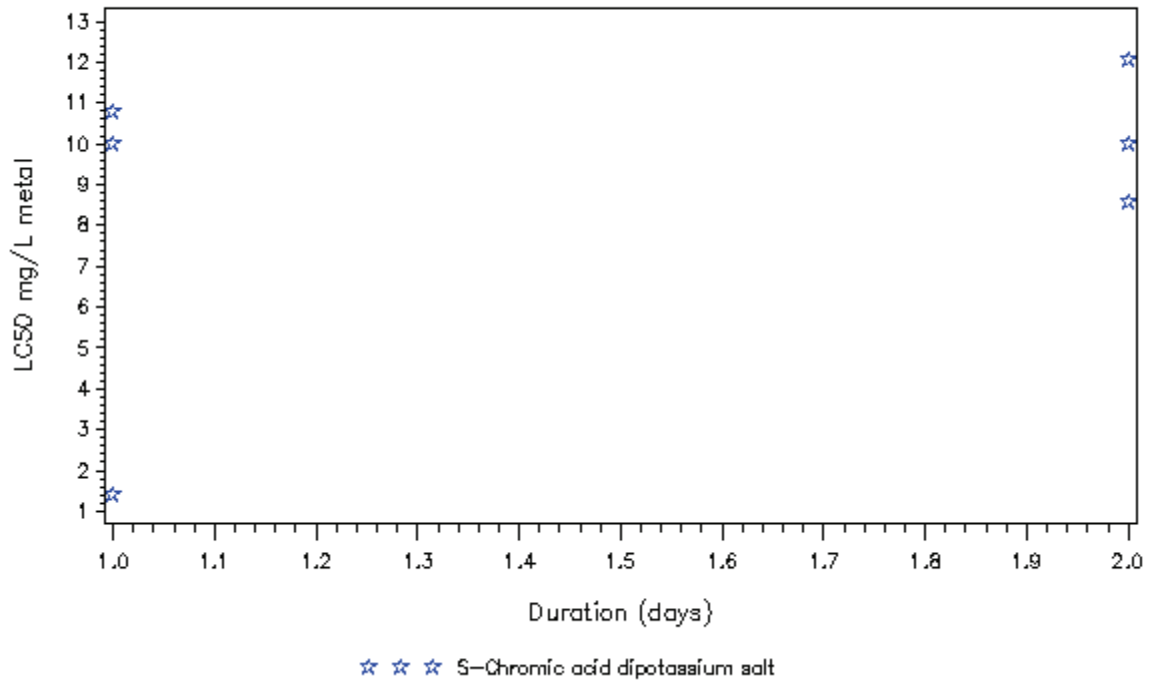


Zygoptera exposed to Cadmium at T>15C in soft water

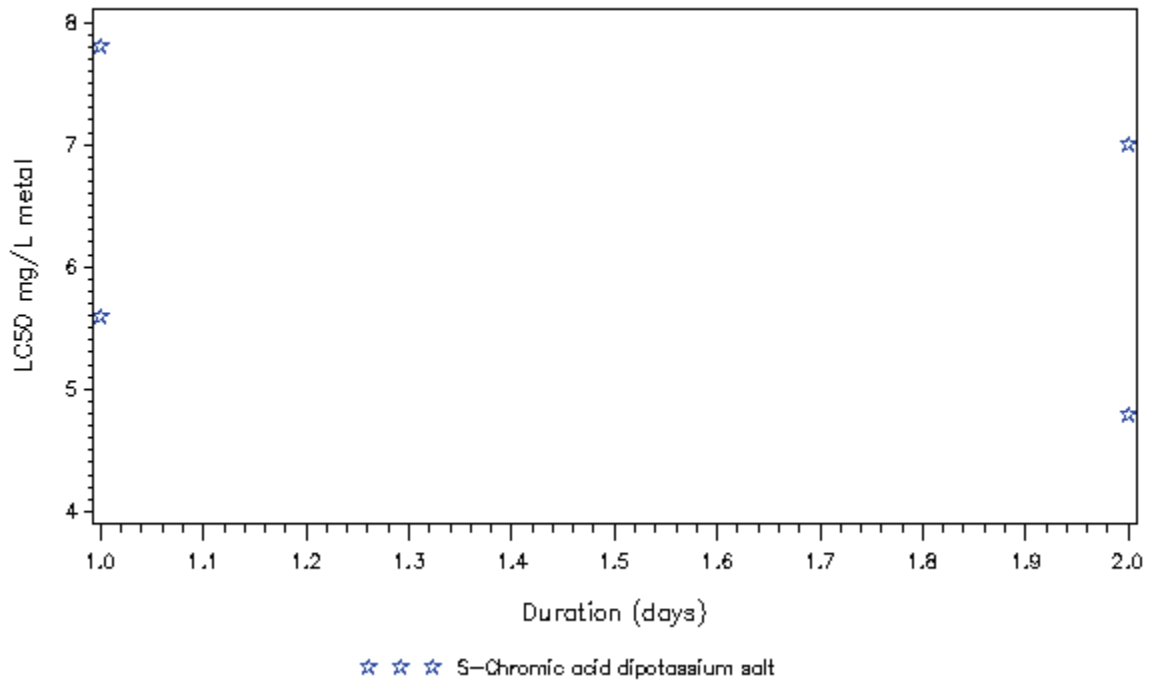


S – Static Test, F – Flowthrough Test, R –Renewal Test

Aeolosoma headleyi exposed to Chromium at T<=15C in soft water

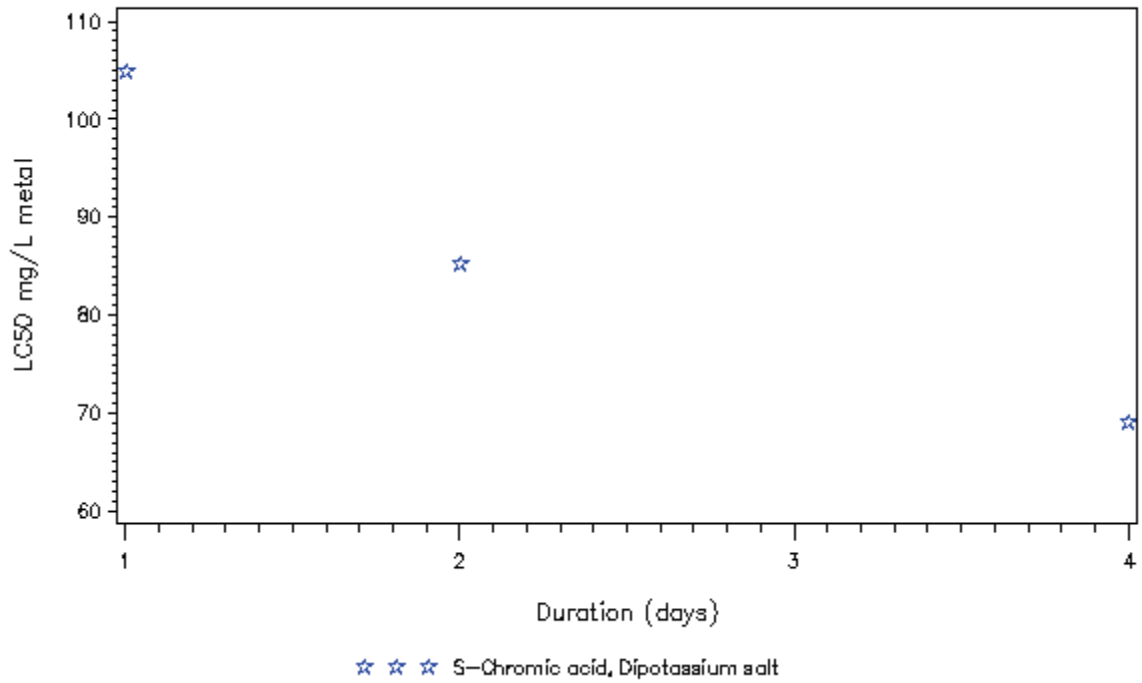


Aeolosoma headleyi exposed to Chromium at T>15C in soft water

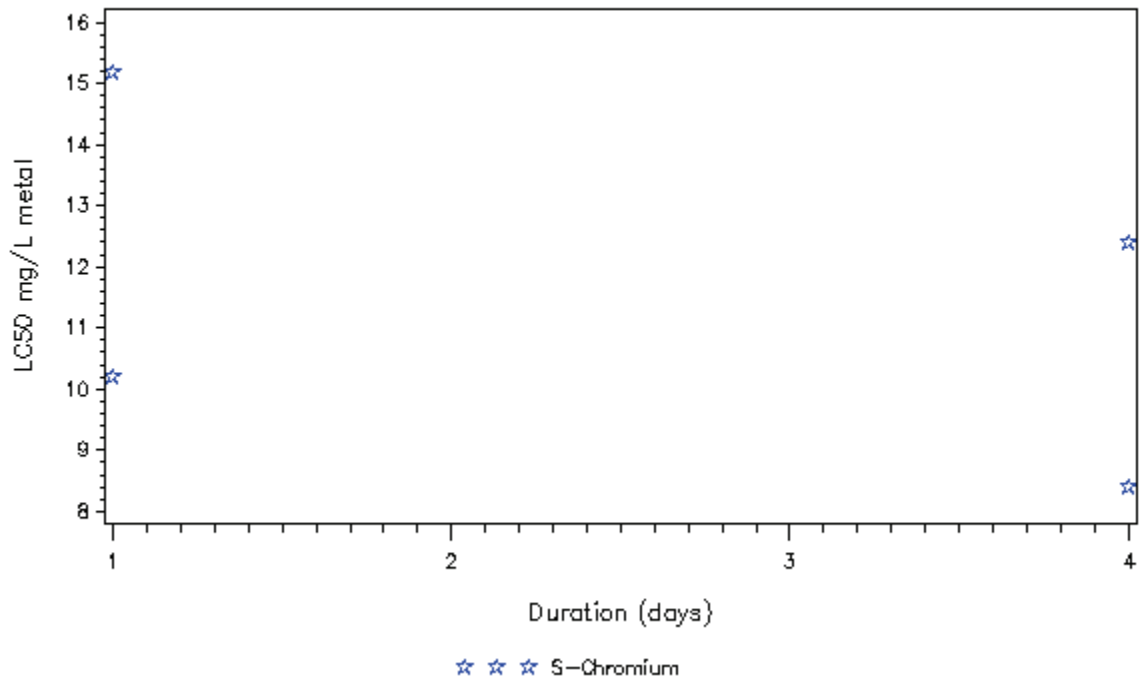


S – Static Test, F – Flowthrough Test, R –Renewal Test

Alburnus alburnus exposed to Chromium at T>15C in soft water

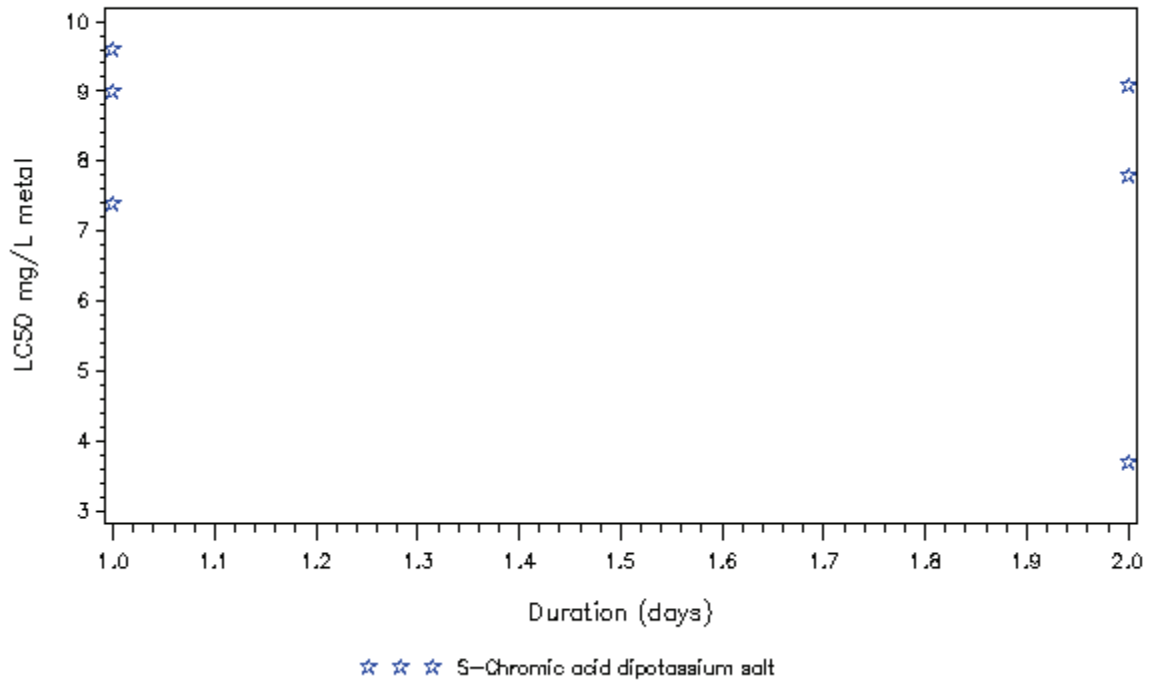


Amnicola exposed to Chromium at T>15C in soft water

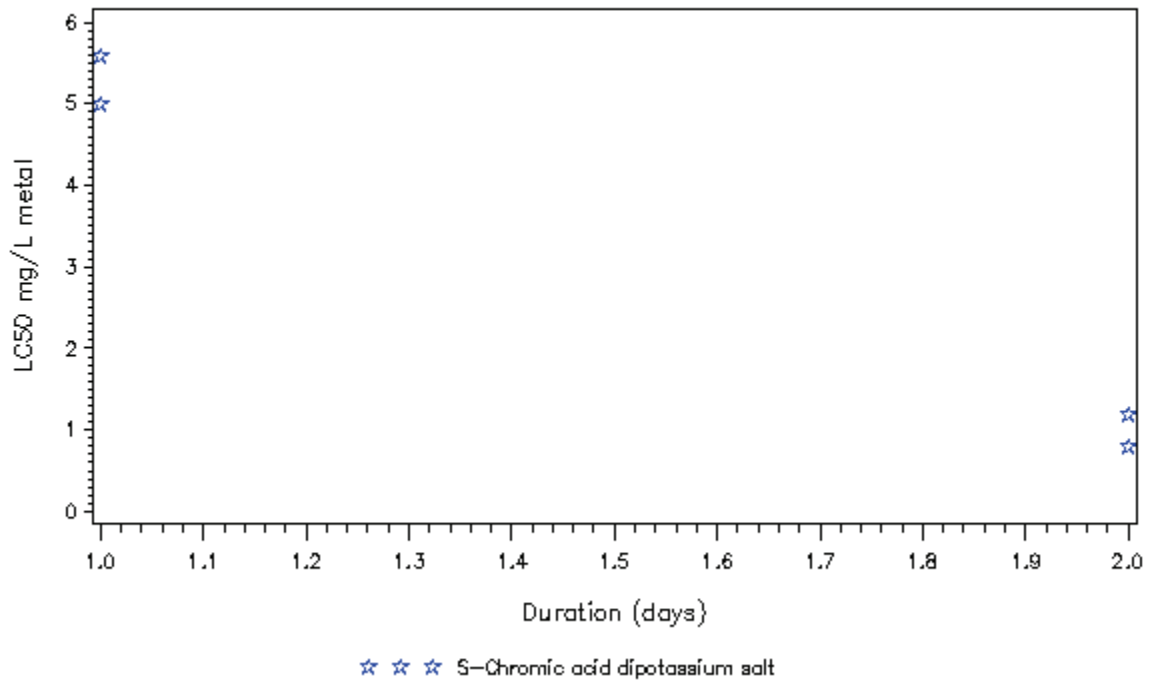


S – Static Test, F – Flowthrough Test, R –Renewal Test

Anculosa exposed to Chromium at T<=15C in soft water

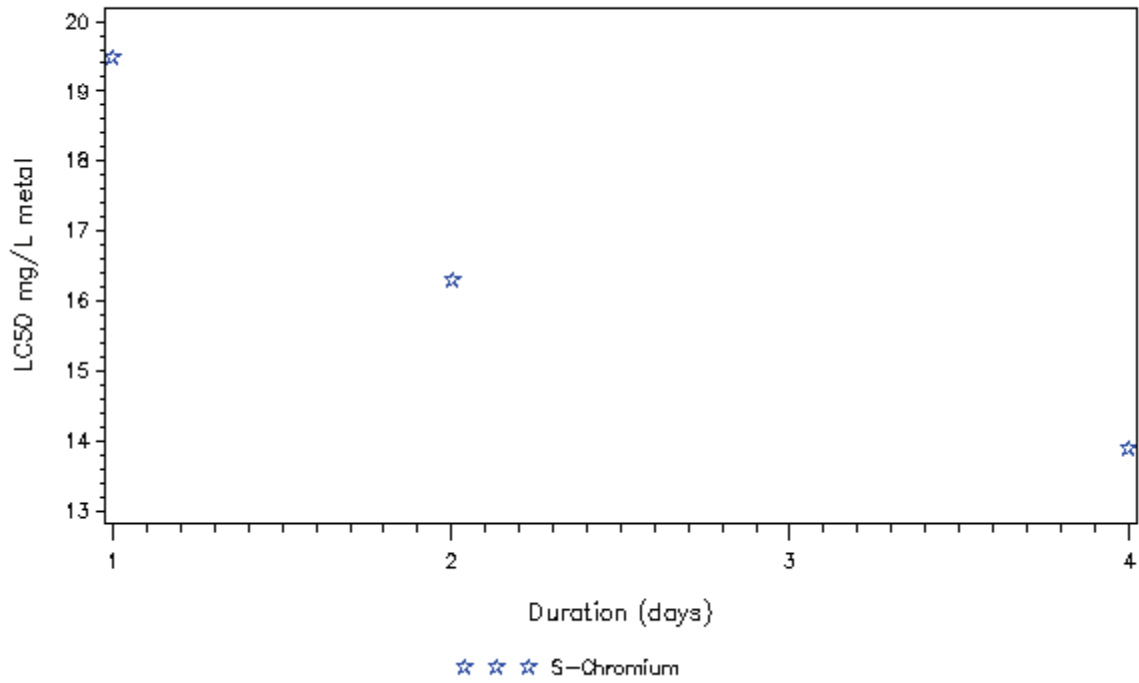


Anculosa exposed to Chromium at T>15C in soft water

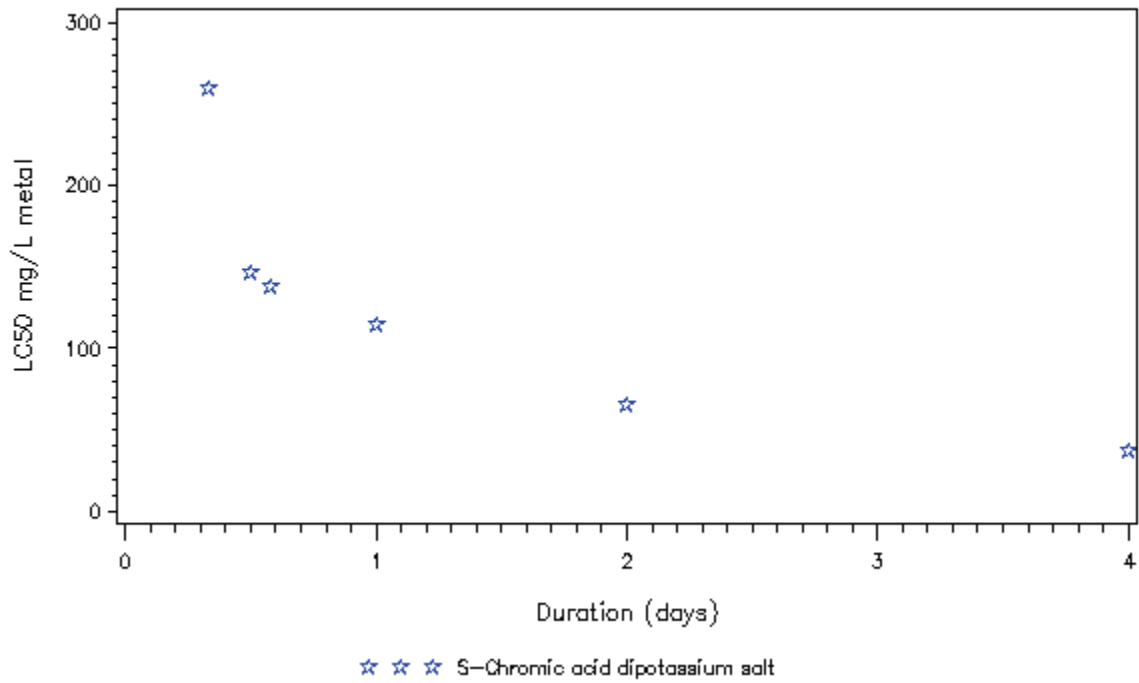


S – Static Test, F – Flowthrough Test, R –Renewal Test

Anguilla rostrata exposed to Chromium at T>15C in soft water

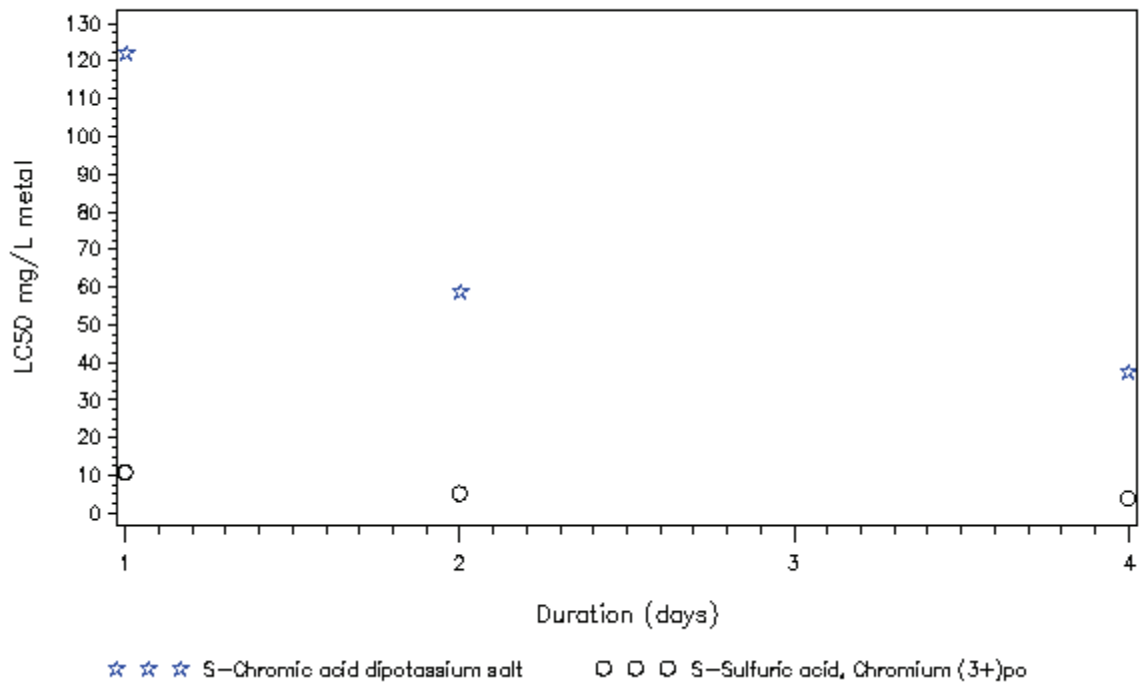


Biomphalaria glabrata exposed to Chromium at T>15C in moderate water

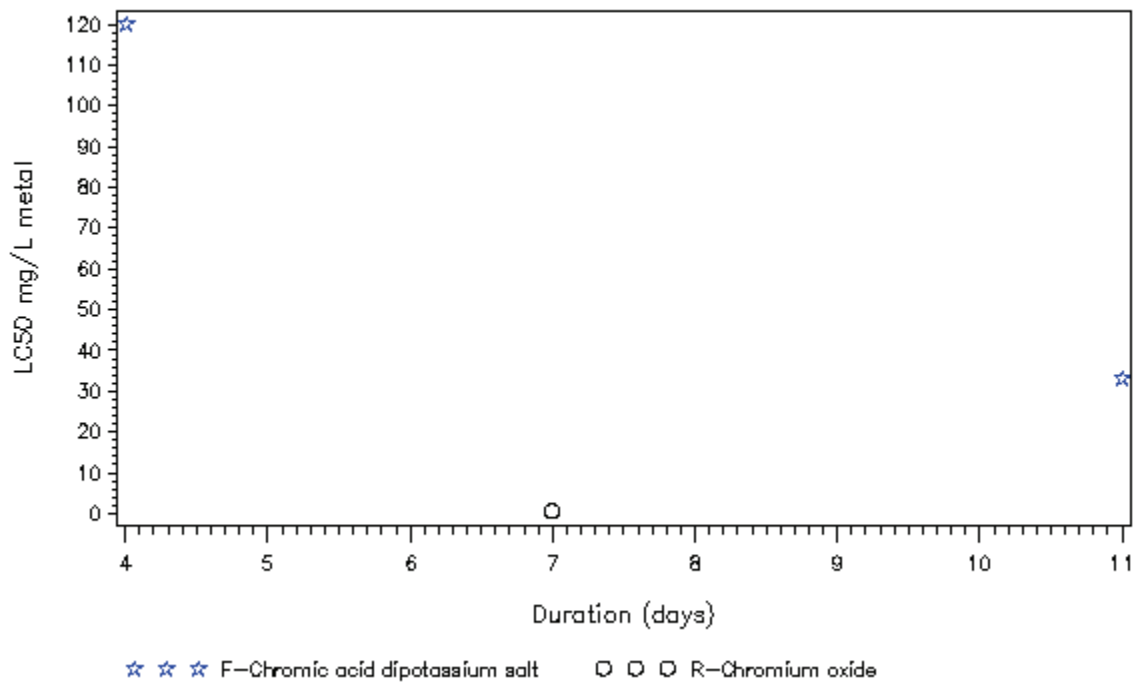


S – Static Test, F – Flowthrough Test, R –Renewal Test

Carassius auratus exposed to Chromium at T>15C in soft water

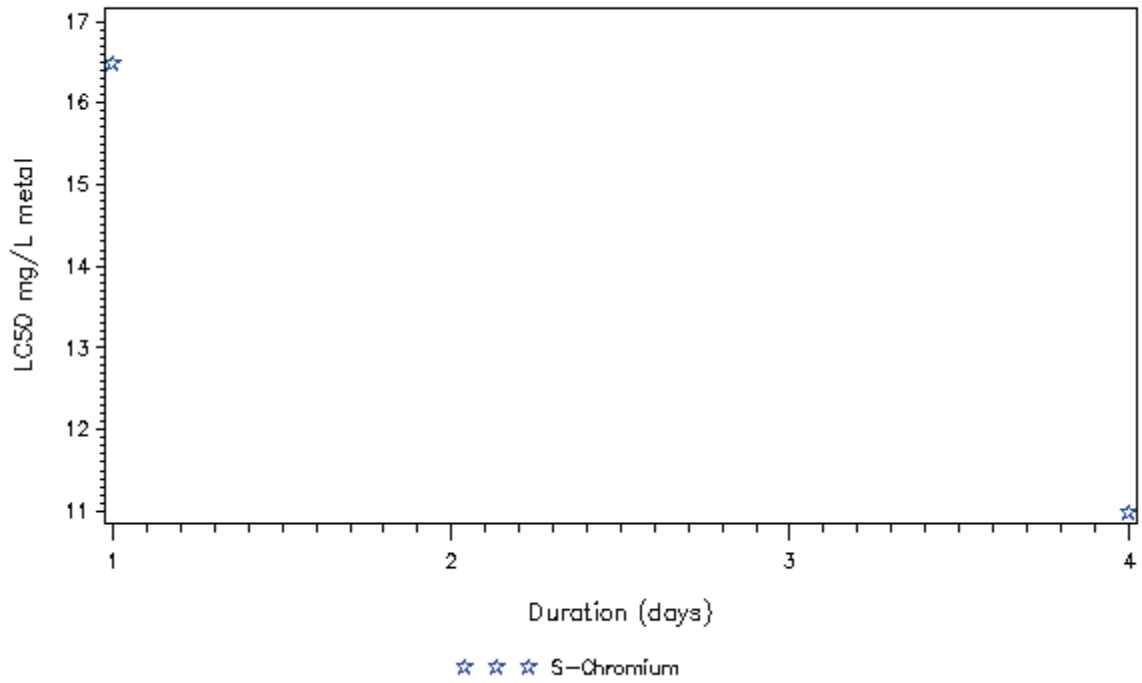


Carassius auratus exposed to Chromium at T>15C in very hard water

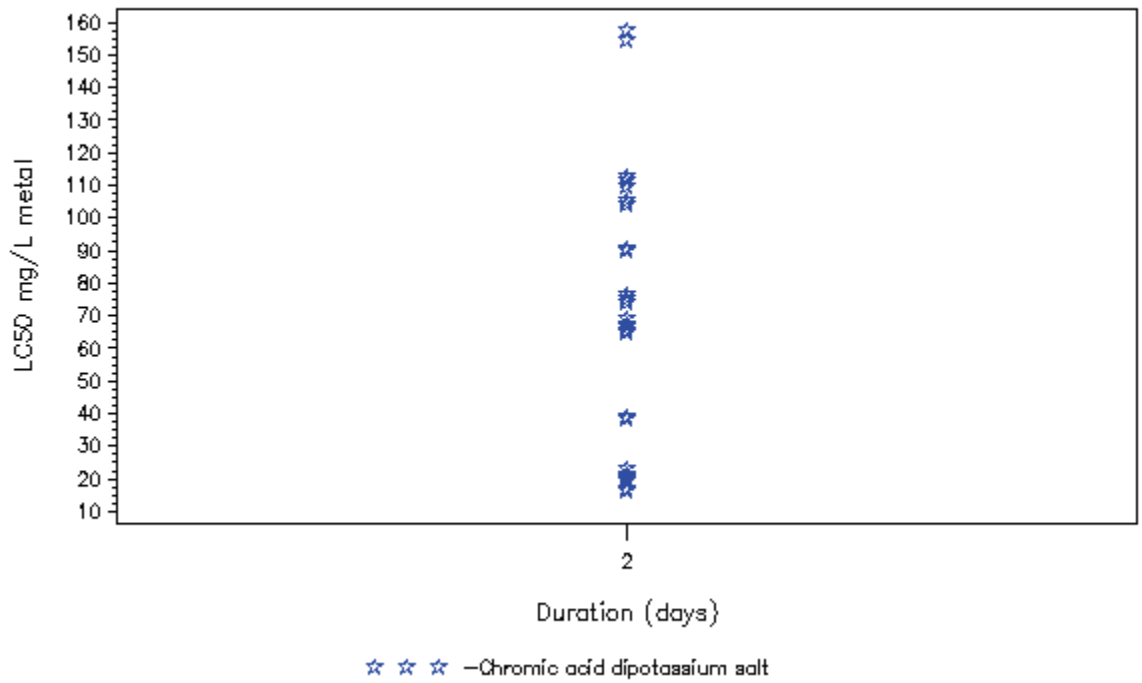


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus exposed to Chromium at T>15C in soft water

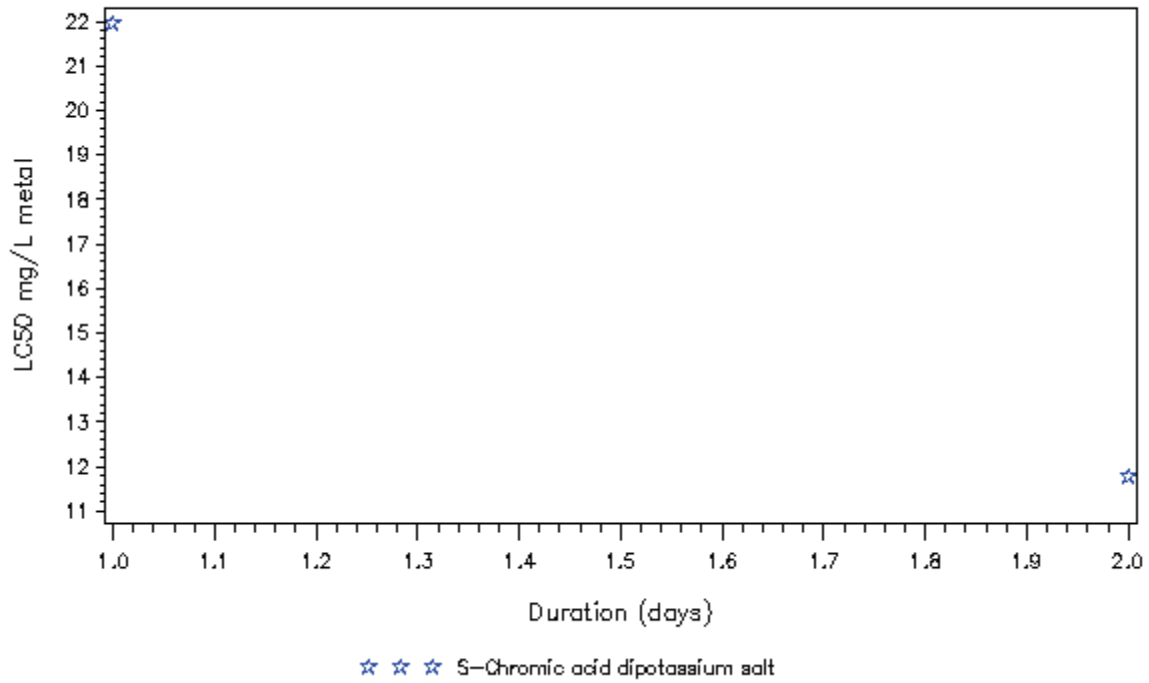


Chironomus exposed to Chromium at T>15C in very hard water

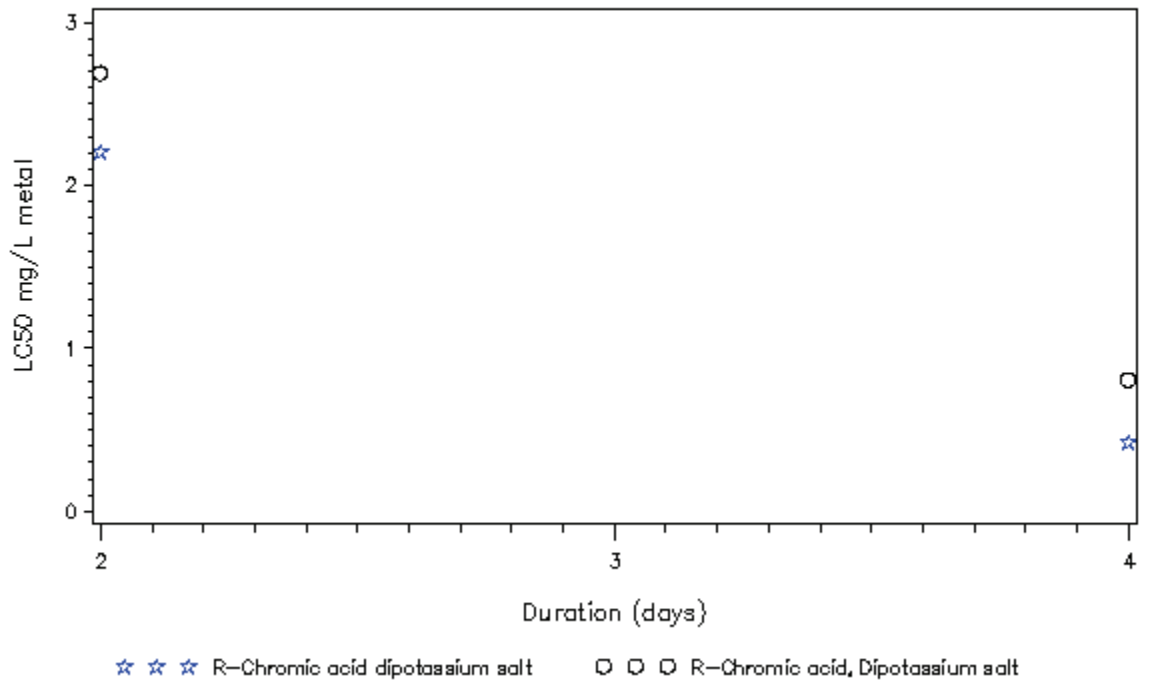


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus tentans exposed to Chromium at T<=15C in soft water

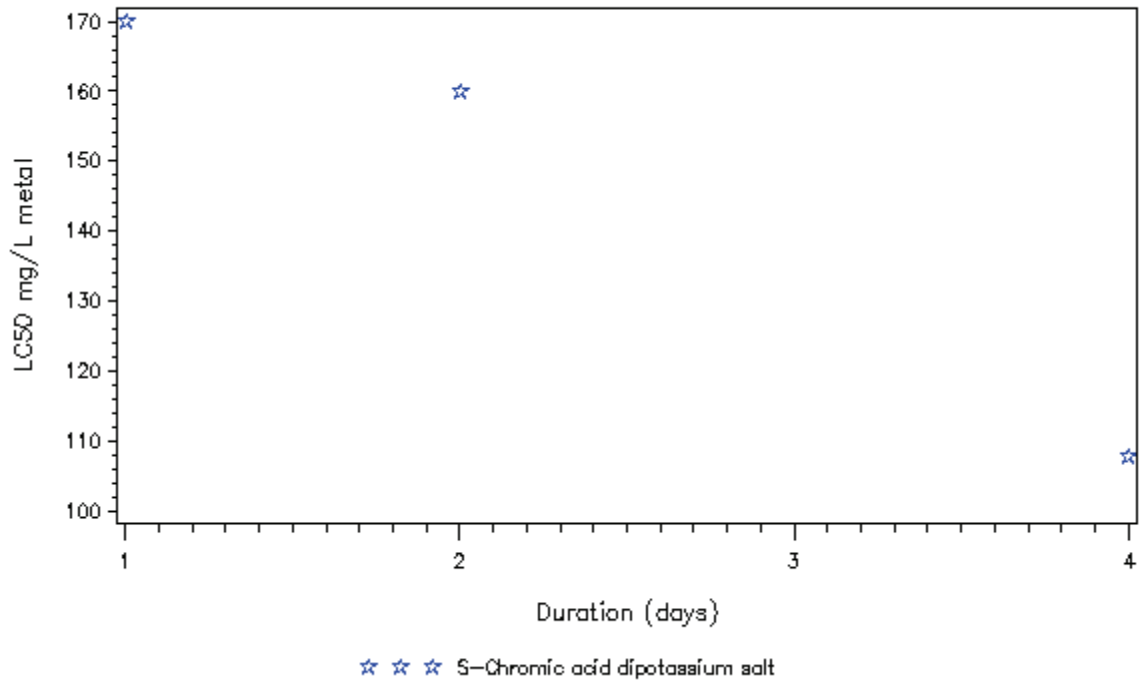


Crangonyx pseudogracilis exposed to Chromium at T<=15C in soft water

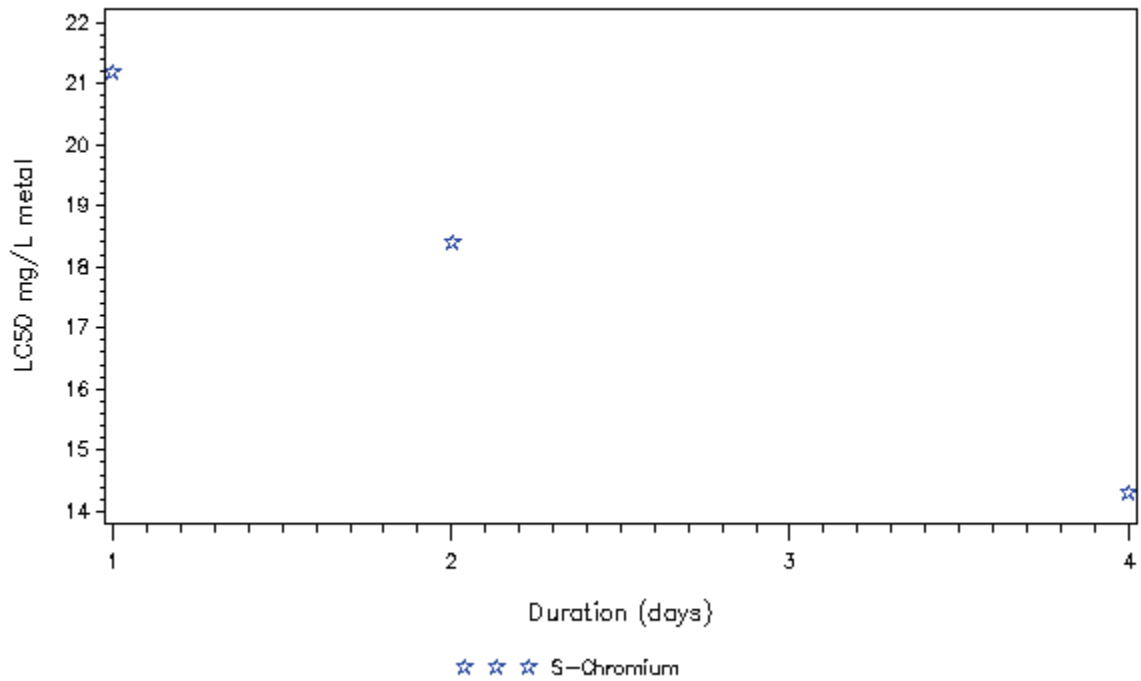


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinidae exposed to Chromium at T>15C in very soft water

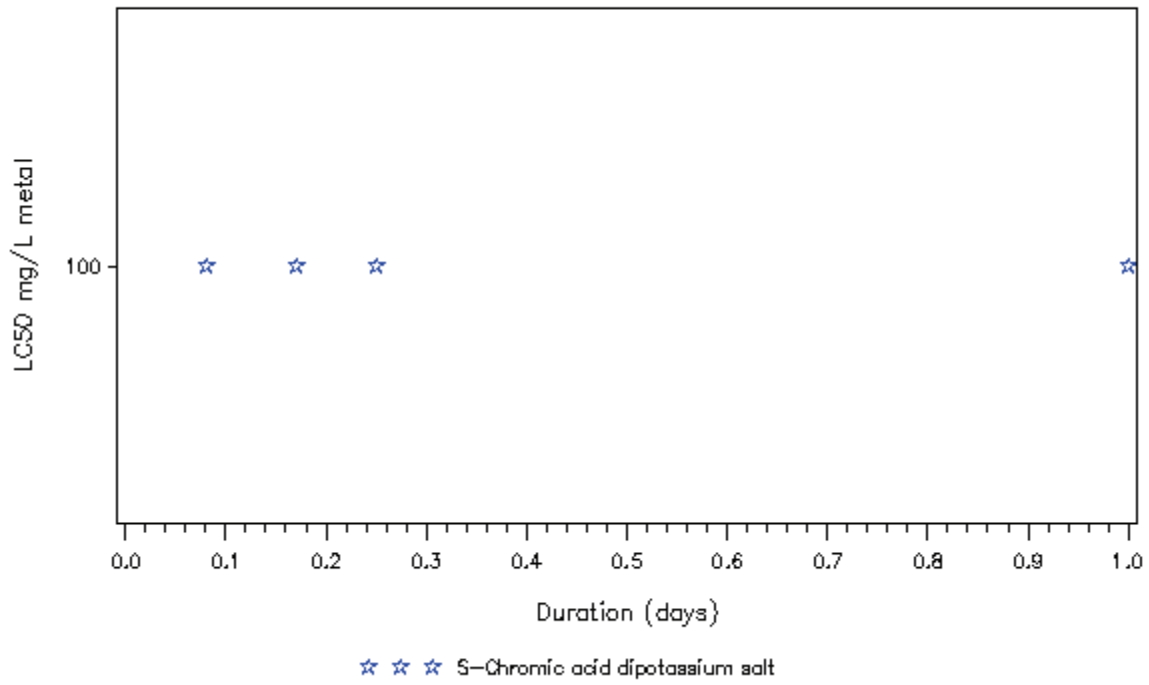


Cyprinus carpio exposed to Chromium at T>15C in soft water

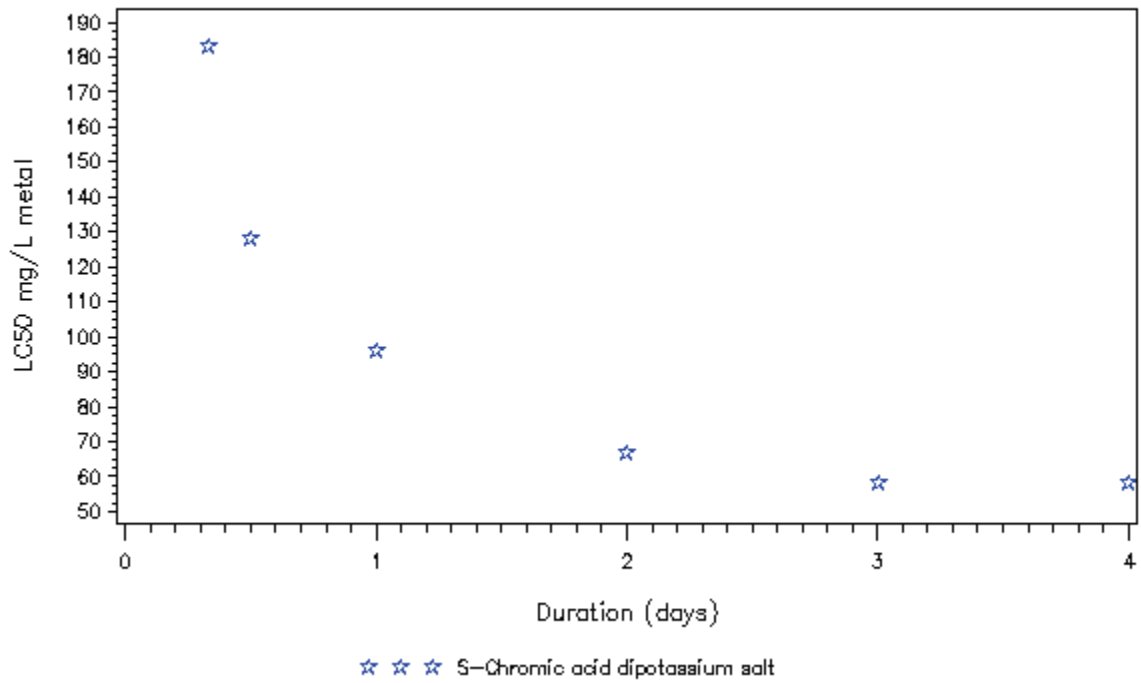


S – Static Test, F – Flowthrough Test, R –Renewal Test

Danio rerio exposed to Chromium at T>15C in hard water

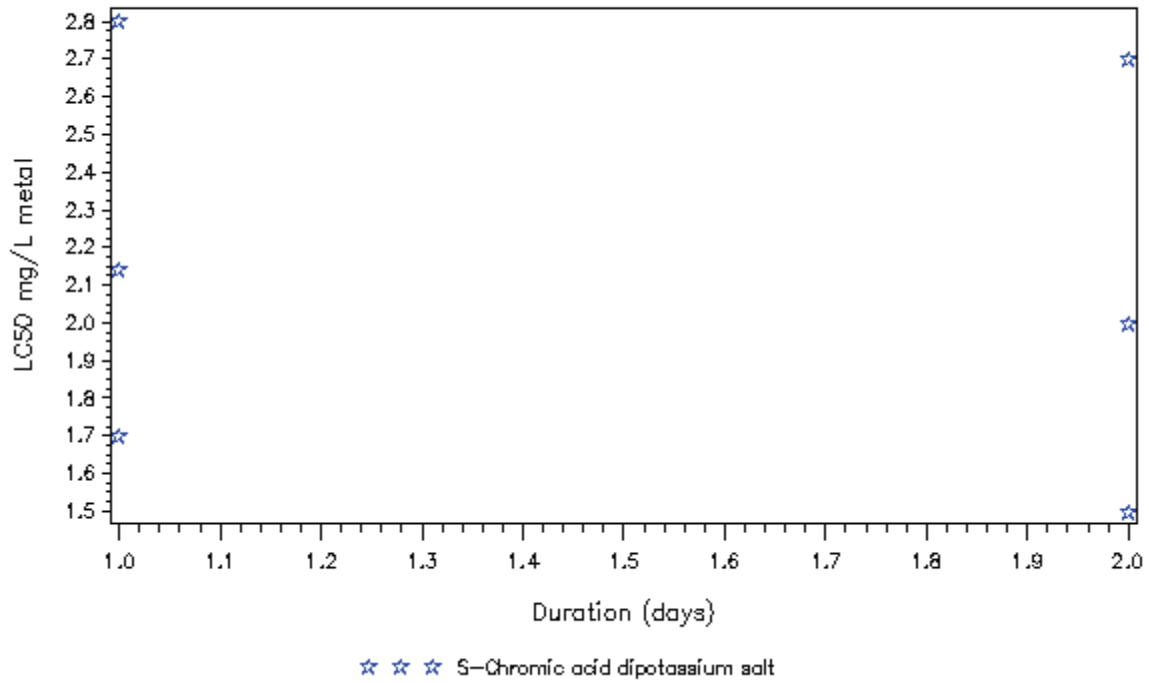


Danio rerio exposed to Chromium at T>15C in moderate water

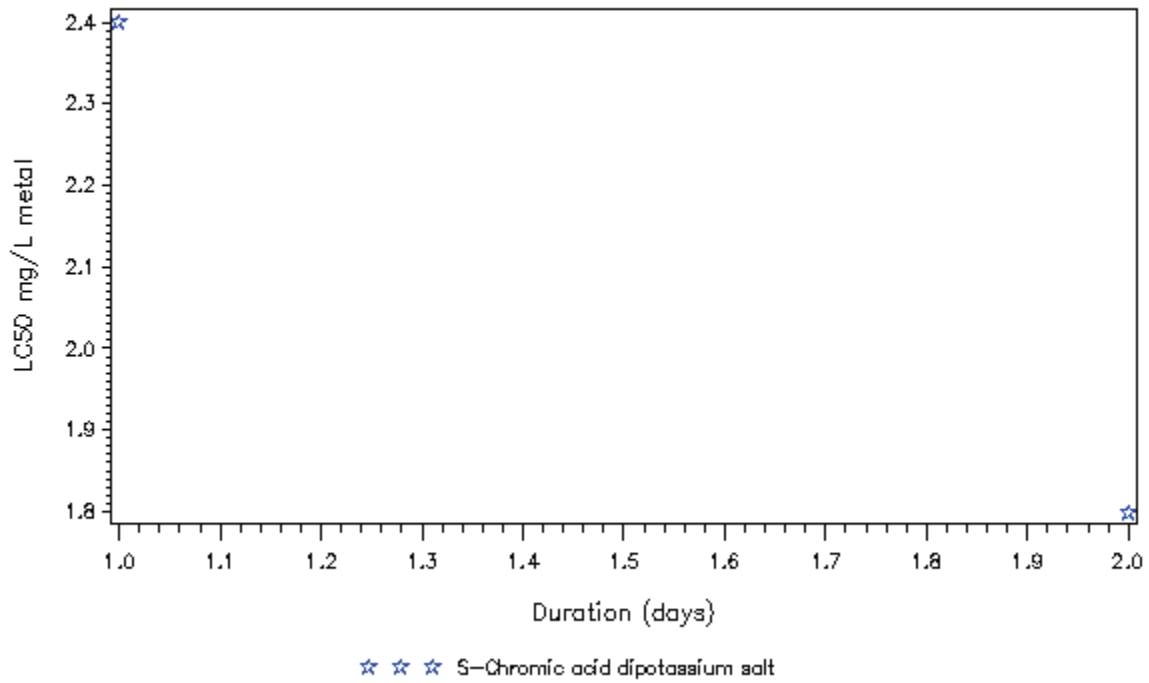


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Chromium at T<=15C in soft water

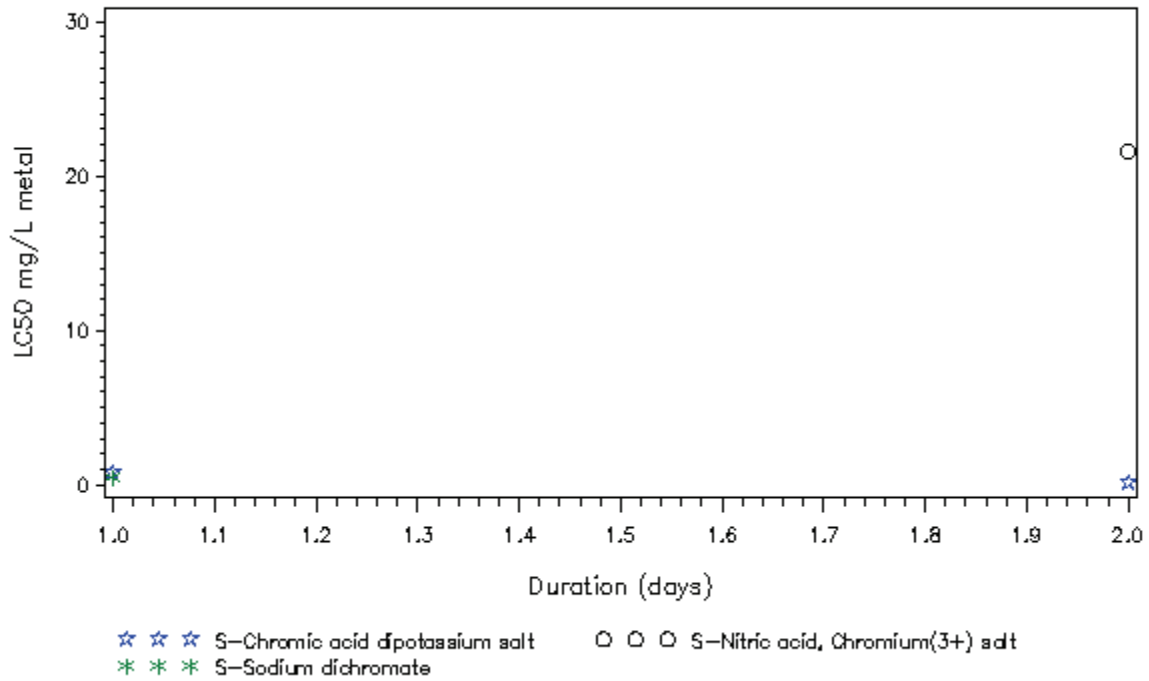


Daphnia magna exposed to Chromium at T<=15C in very hard water

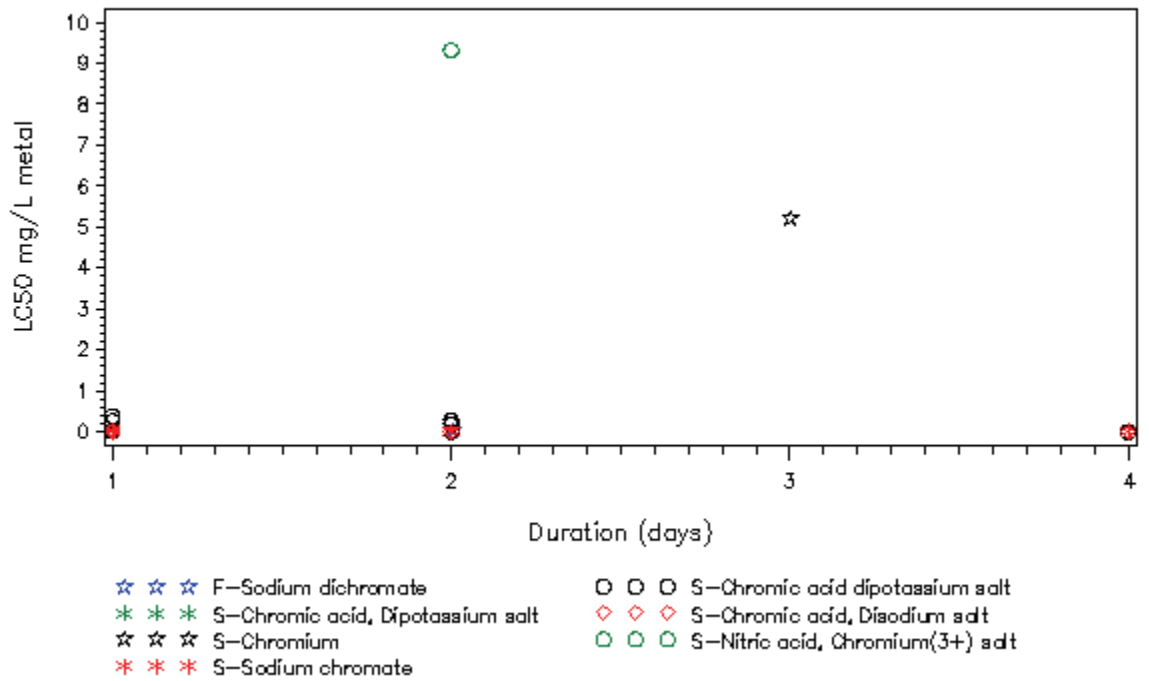


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Chromium at T>15C in moderate water

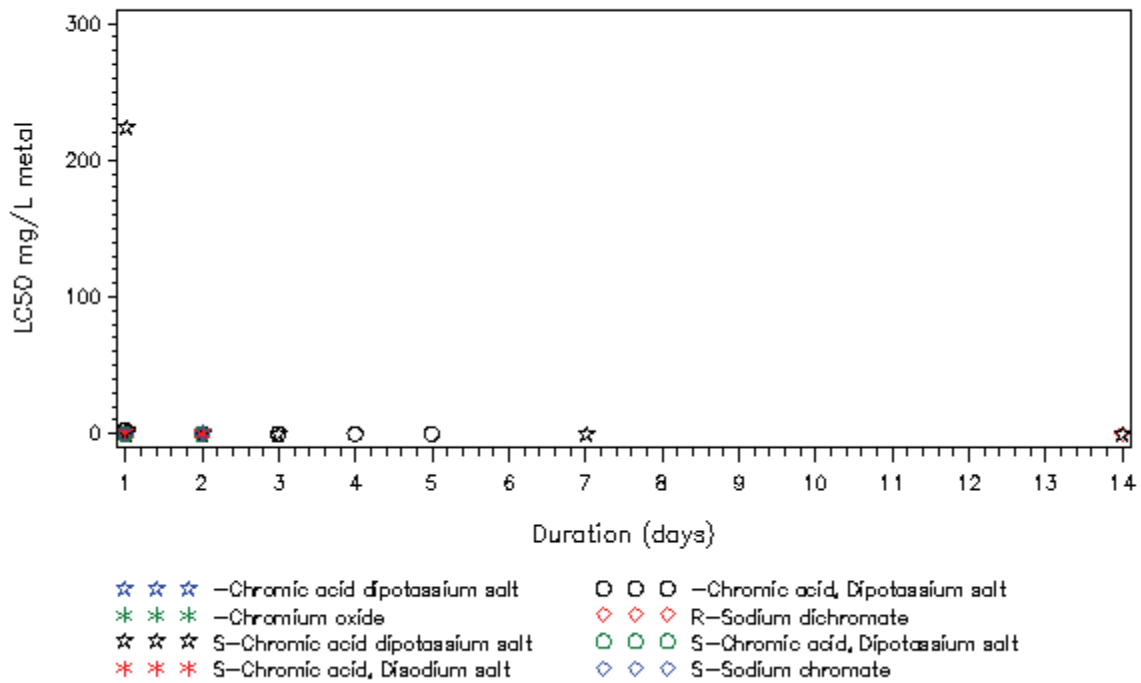


Daphnia magna exposed to Chromium at T>15C in soft water

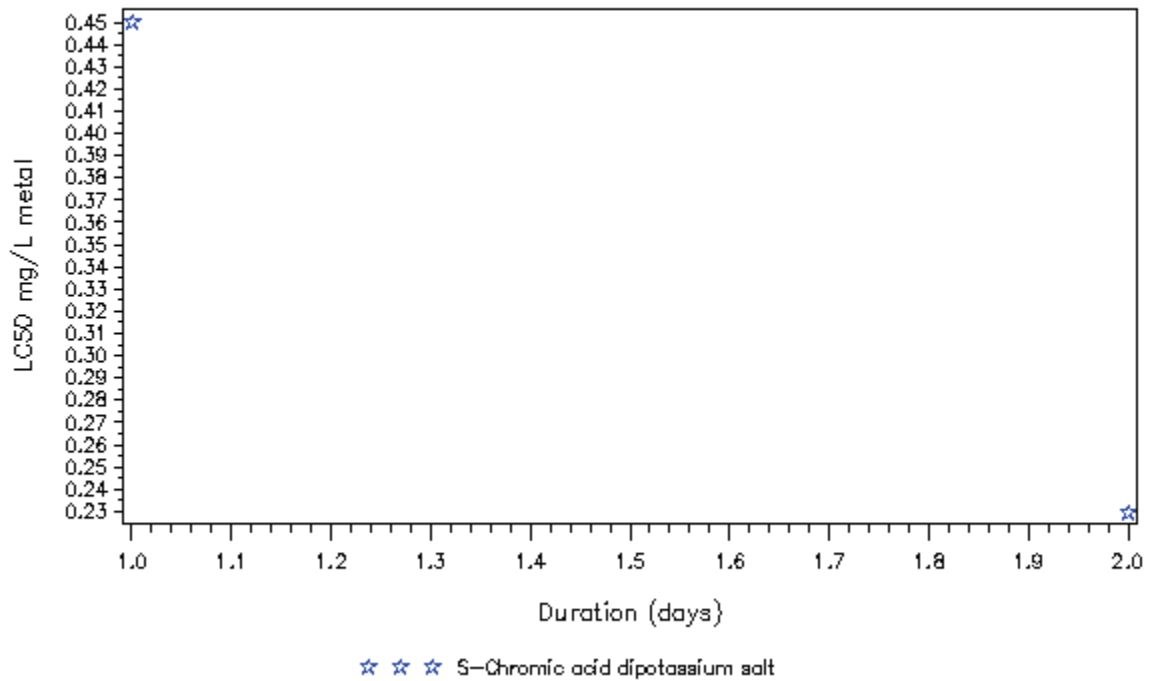


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Chromium at T>15C in very hard water

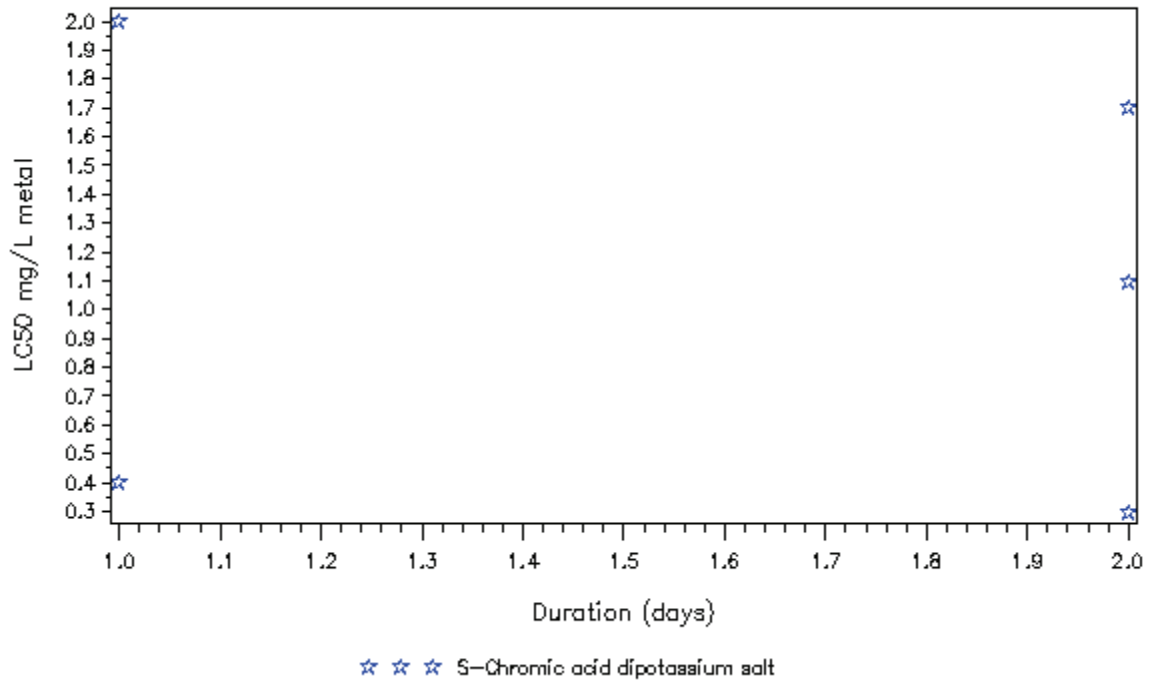


Daphnia obtusa exposed to Chromium at T>15C in very hard water

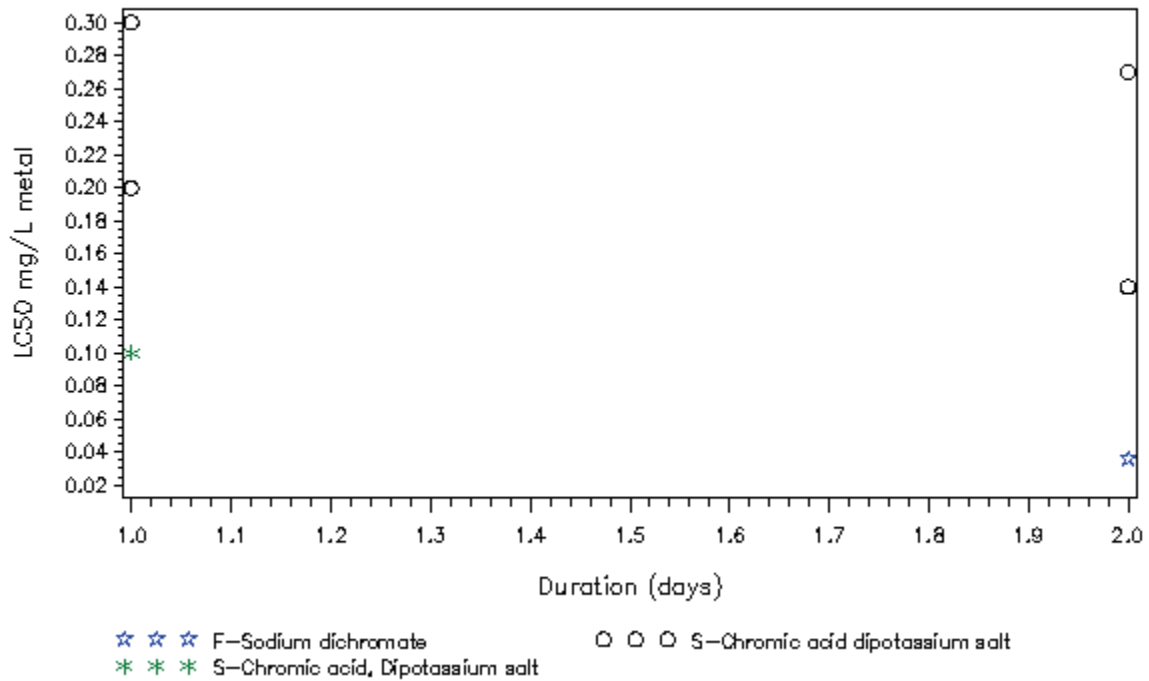


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia pulex exposed to Chromium at T<=15C in soft water

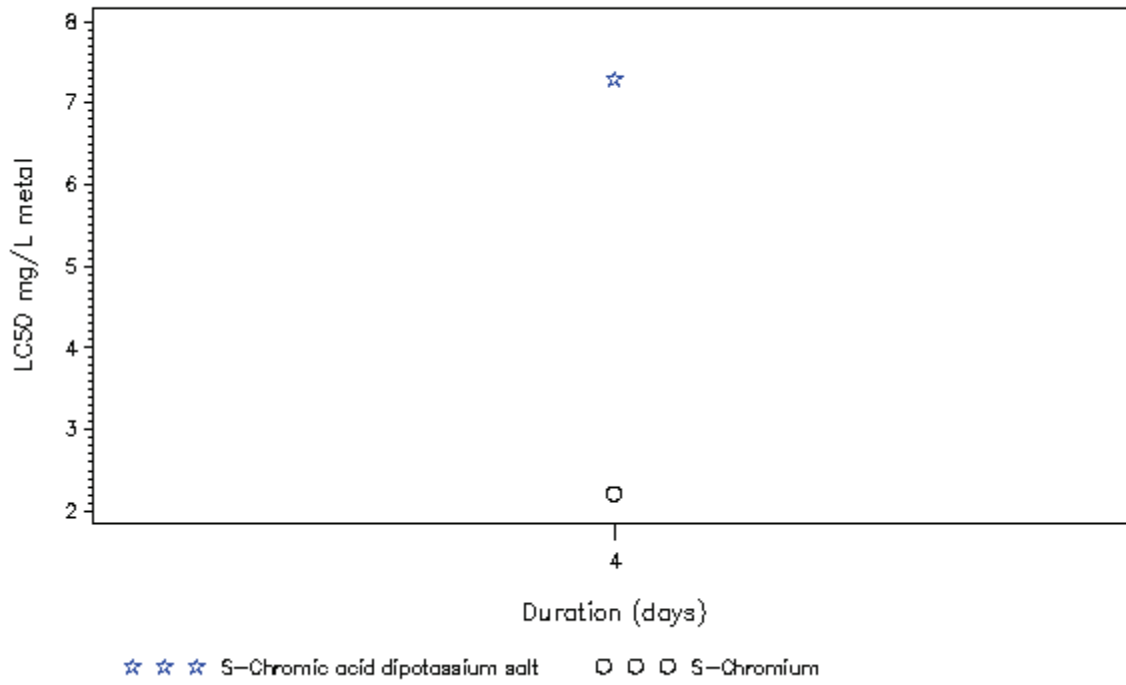


Daphnia pulex exposed to Chromium at T>15C in soft water

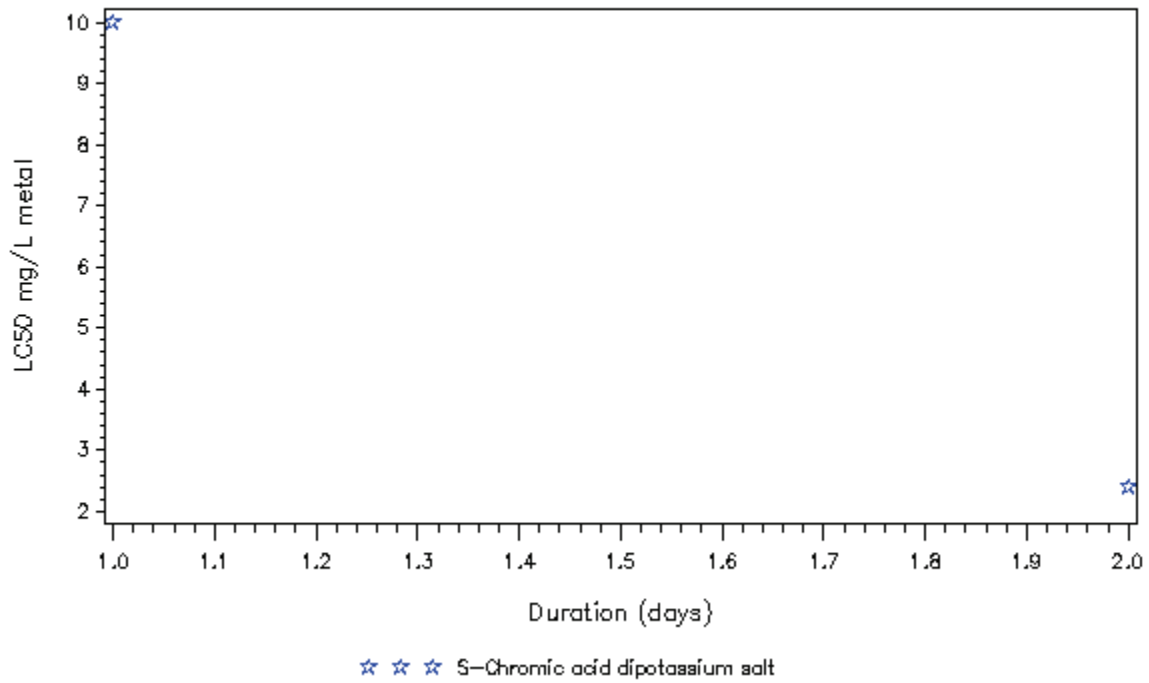


S – Static Test, F – Flowthrough Test, R –Renewal Test

Dugesia tigrina exposed to Chromium at T>15C in soft water

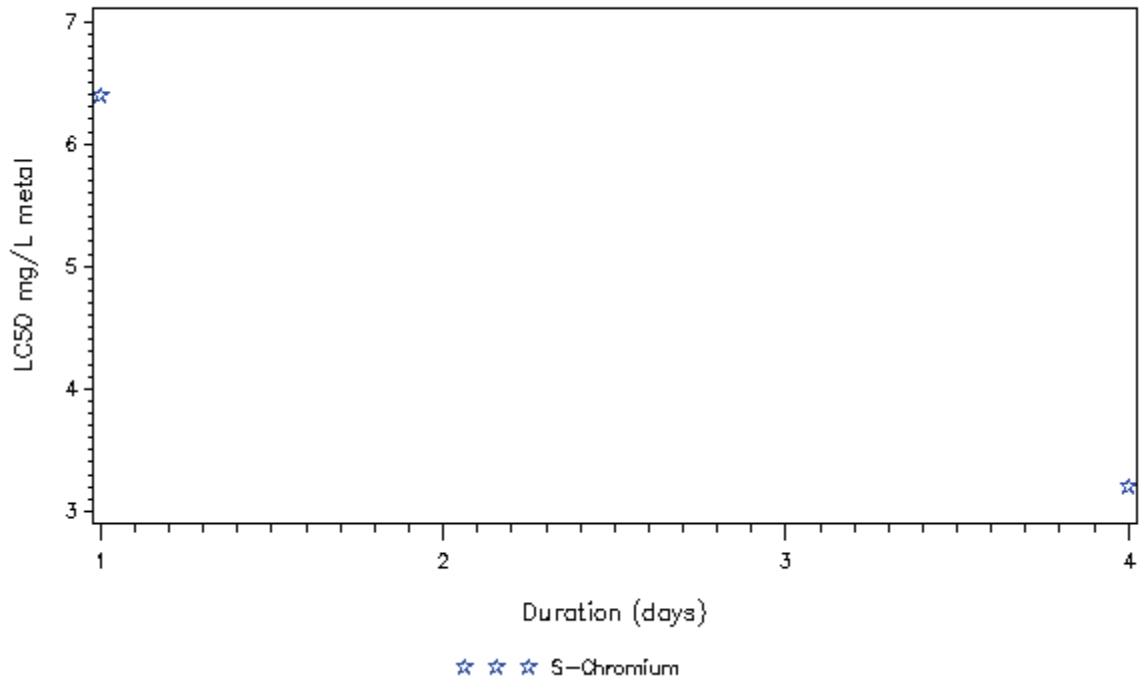


Elimia livescens exposed to Chromium at T>15C in hard water

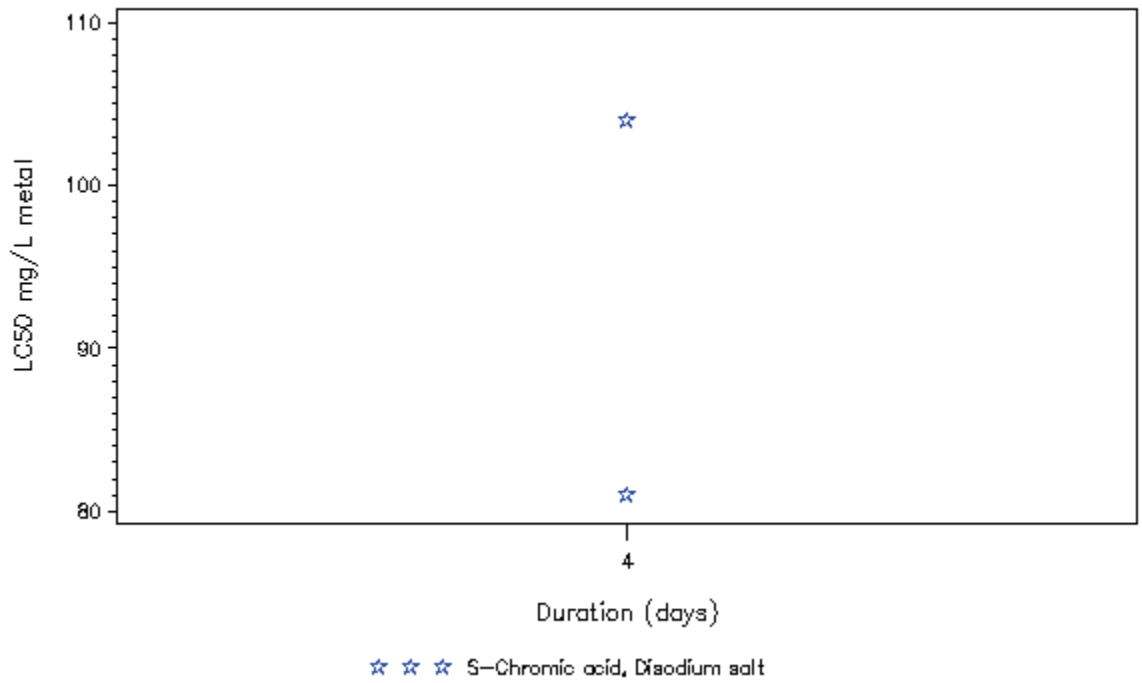


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gammarus exposed to Chromium at T>15C in soft water

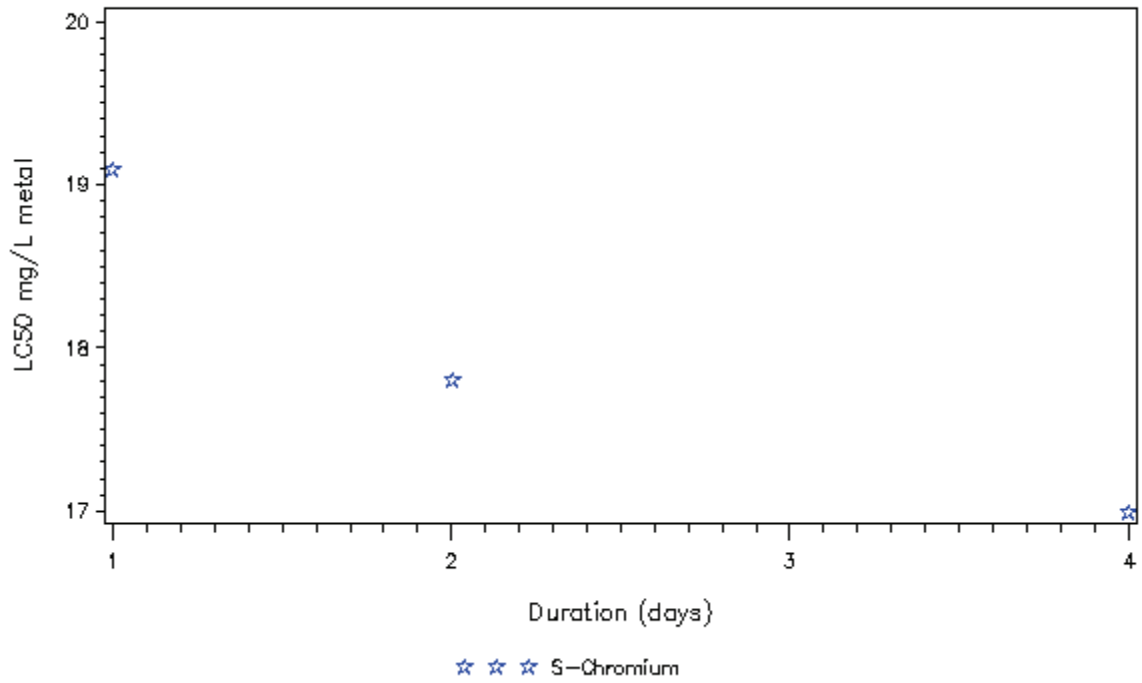


Gila elegans exposed to Chromium at T>15C in very hard water

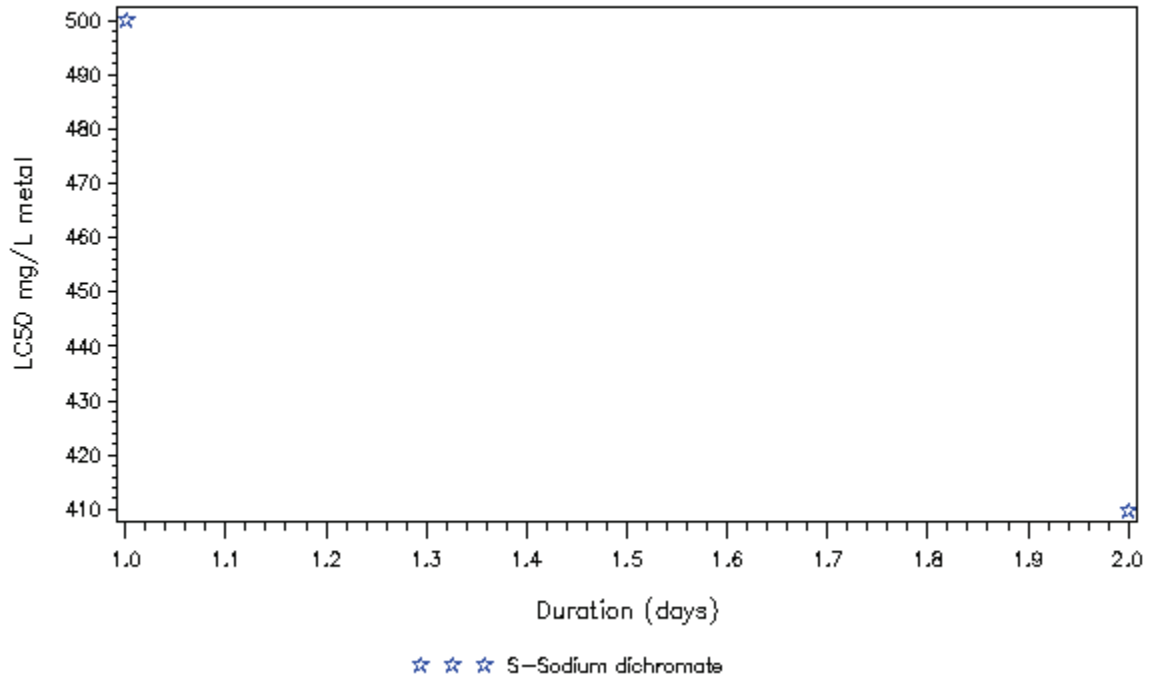


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis gibbosus exposed to Chromium at T>15C in soft water

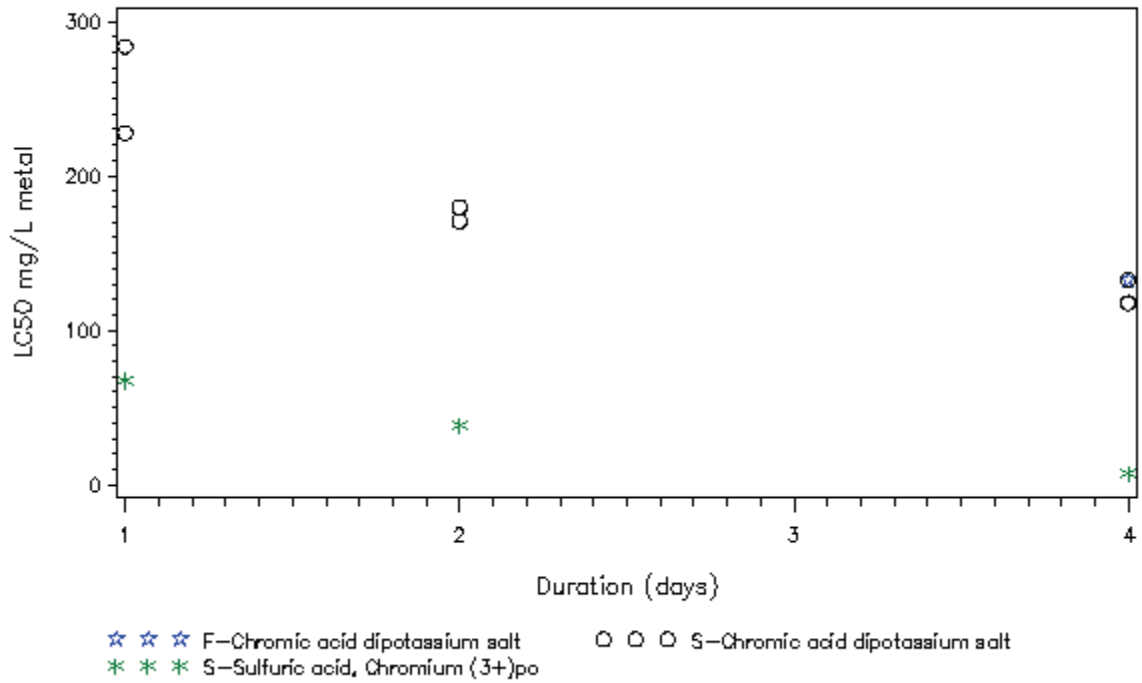


Lepomis macrochirus exposed to Chromium at T>15C in hard water

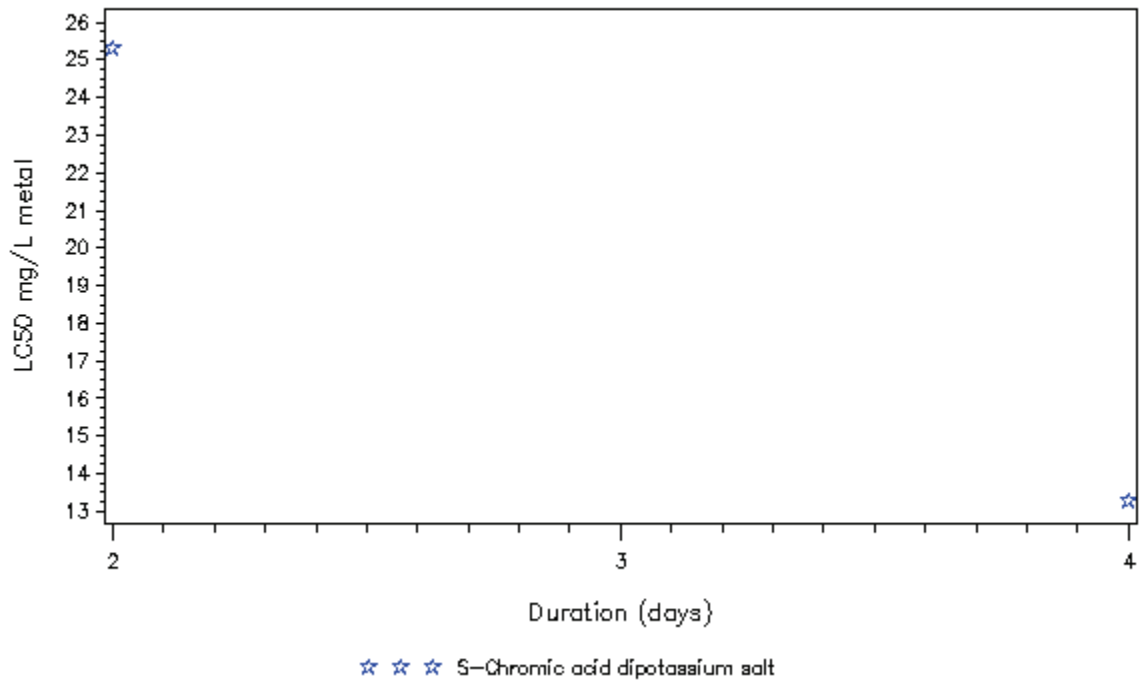


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis macrochirus exposed to Chromium at T>15C in soft water

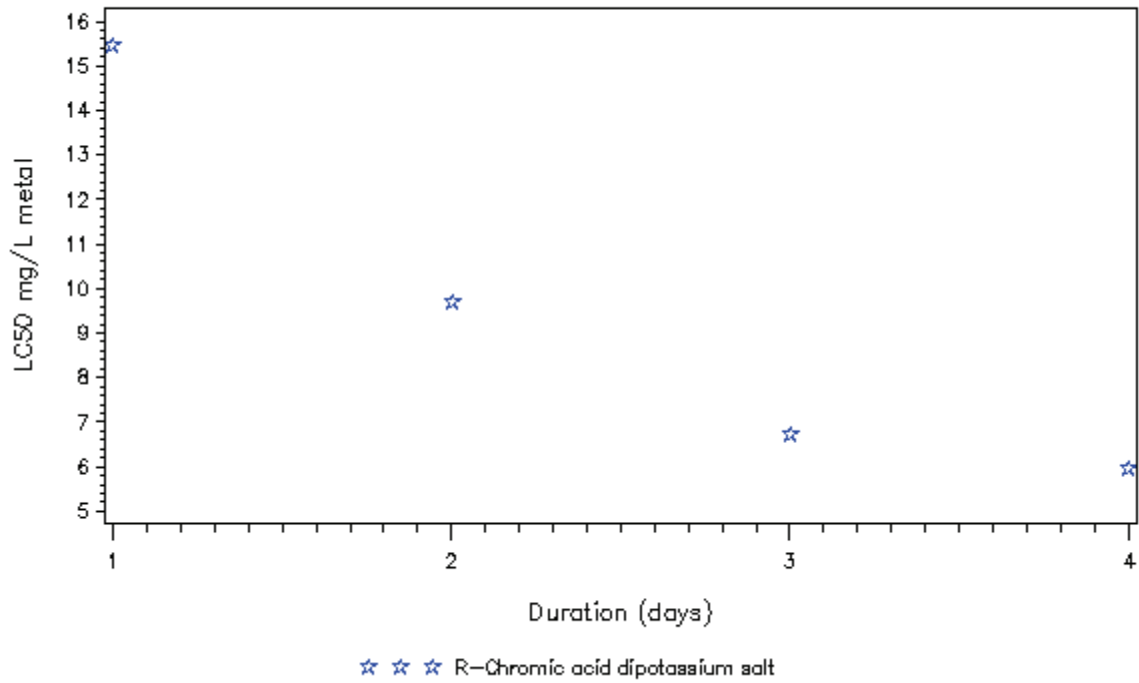


Lumbriculus variegatus exposed to Chromium at T>15C in soft water

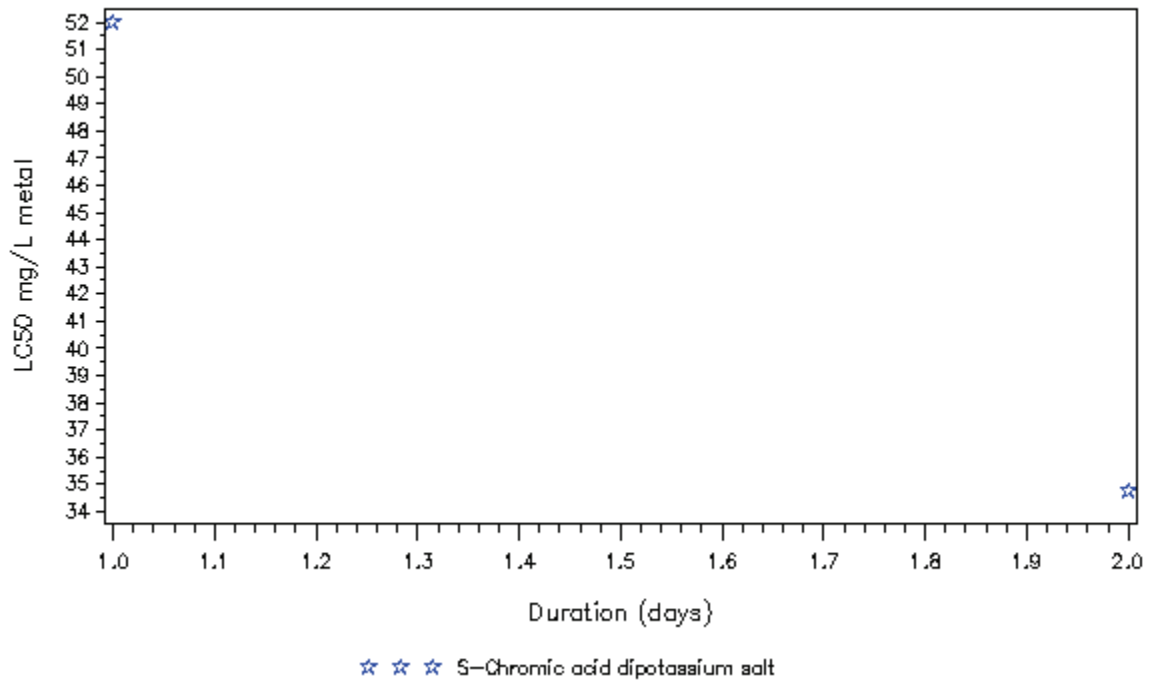


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lymnaea acuminata exposed to Chromium at T>15C in very hard water

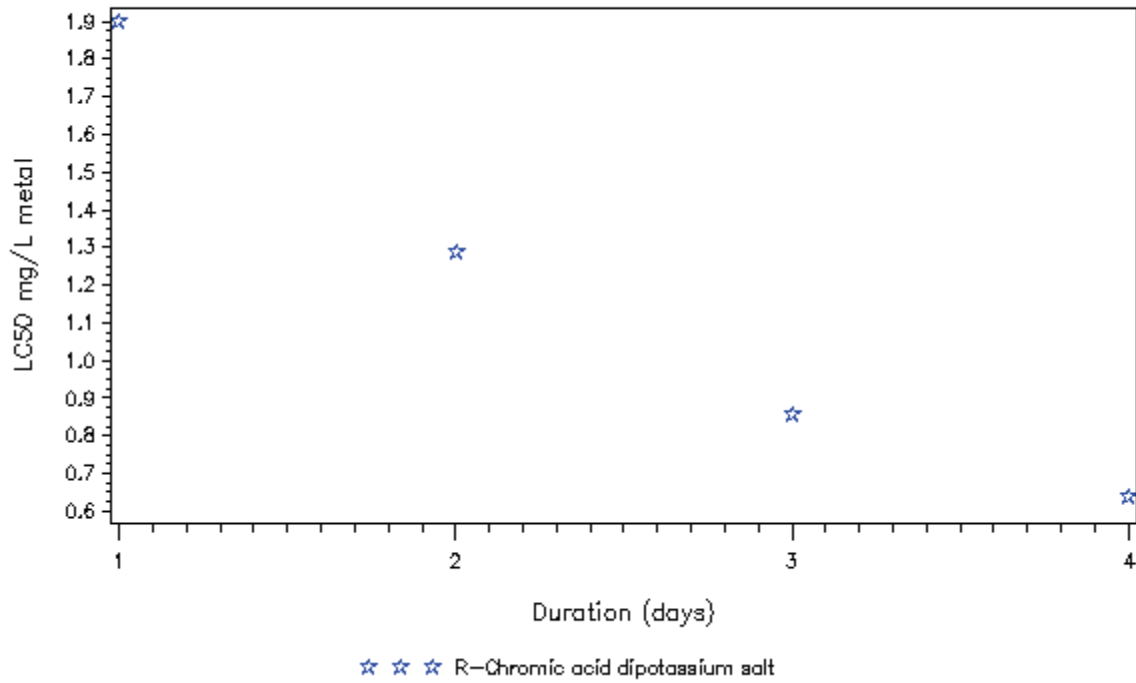


Lymnaea emarginata angulata exposed to Chromium at T>15C in hard water

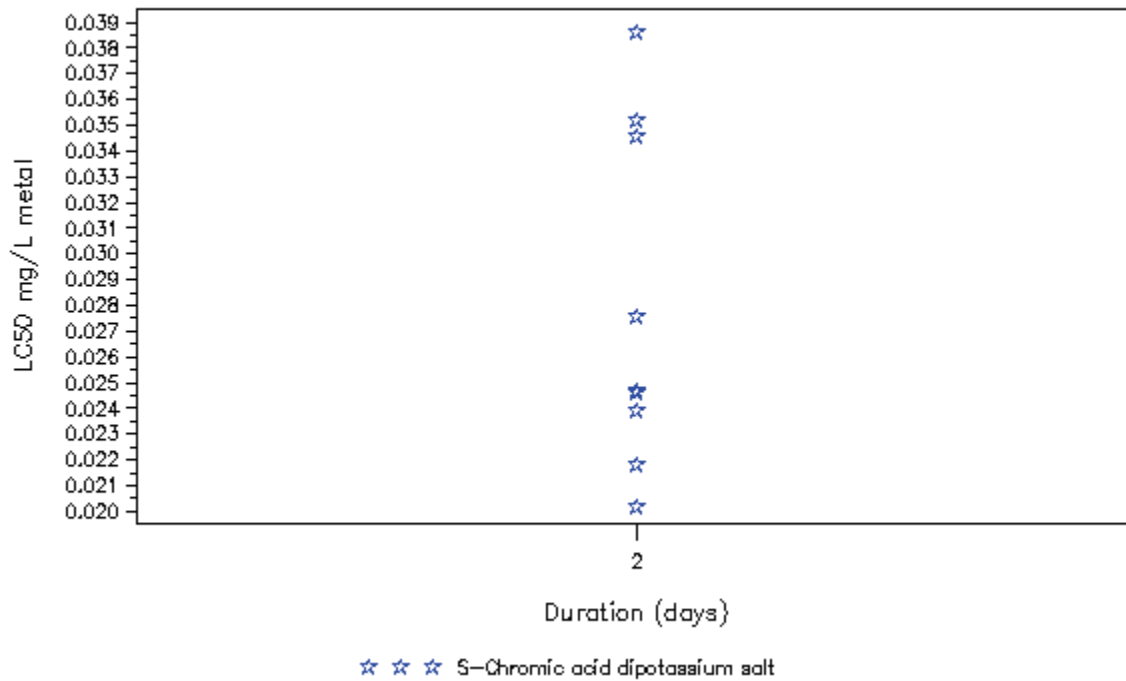


S – Static Test, F – Flowthrough Test, R –Renewal Test

Macrobrachium lamarrei exposed to Chromium at T>15C in moderate water

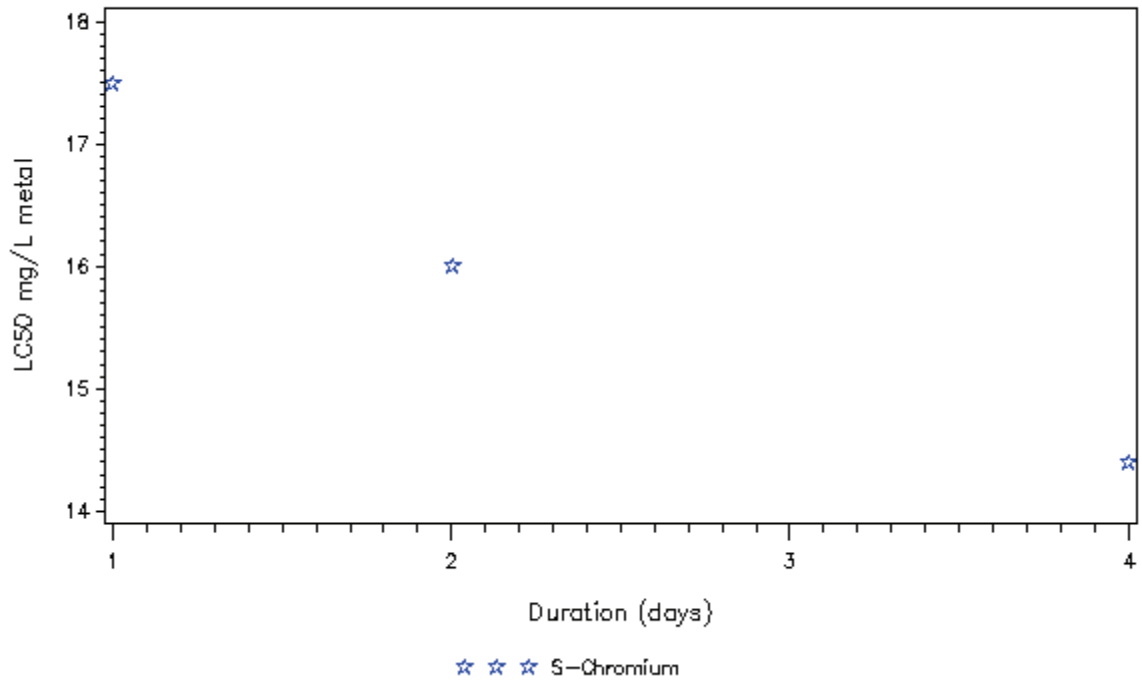


Moina australiensis exposed to Chromium at T>15C in soft water

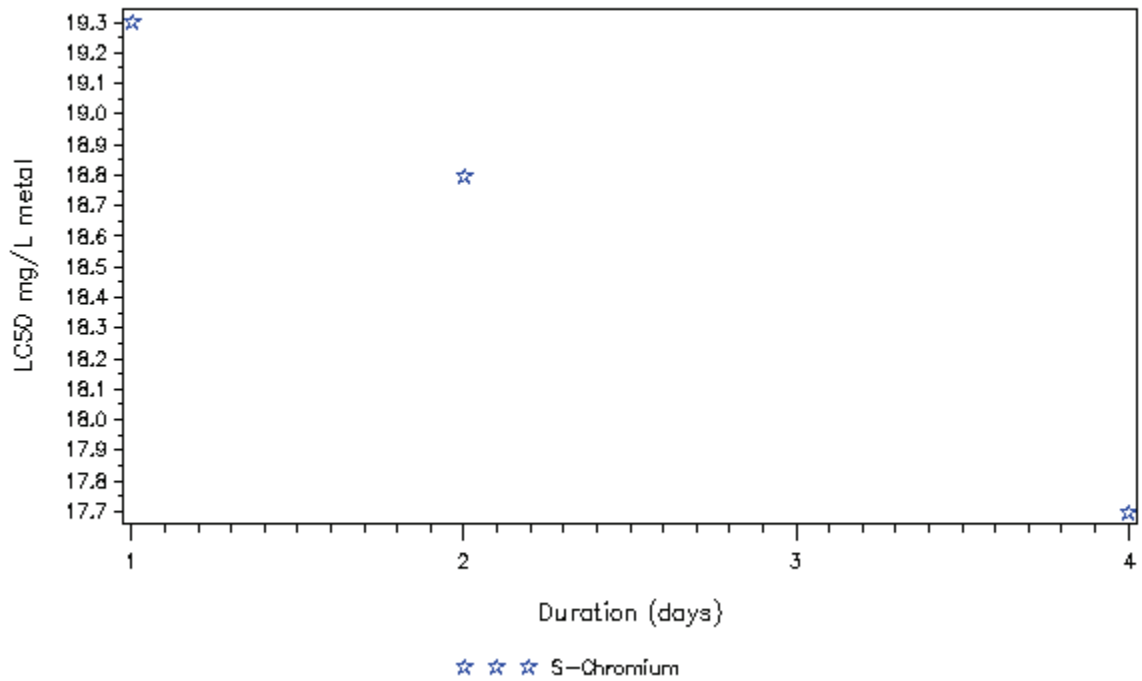


S – Static Test, F – Flowthrough Test, R –Renewal Test

Morone americana exposed to Chromium at T>15C in soft water

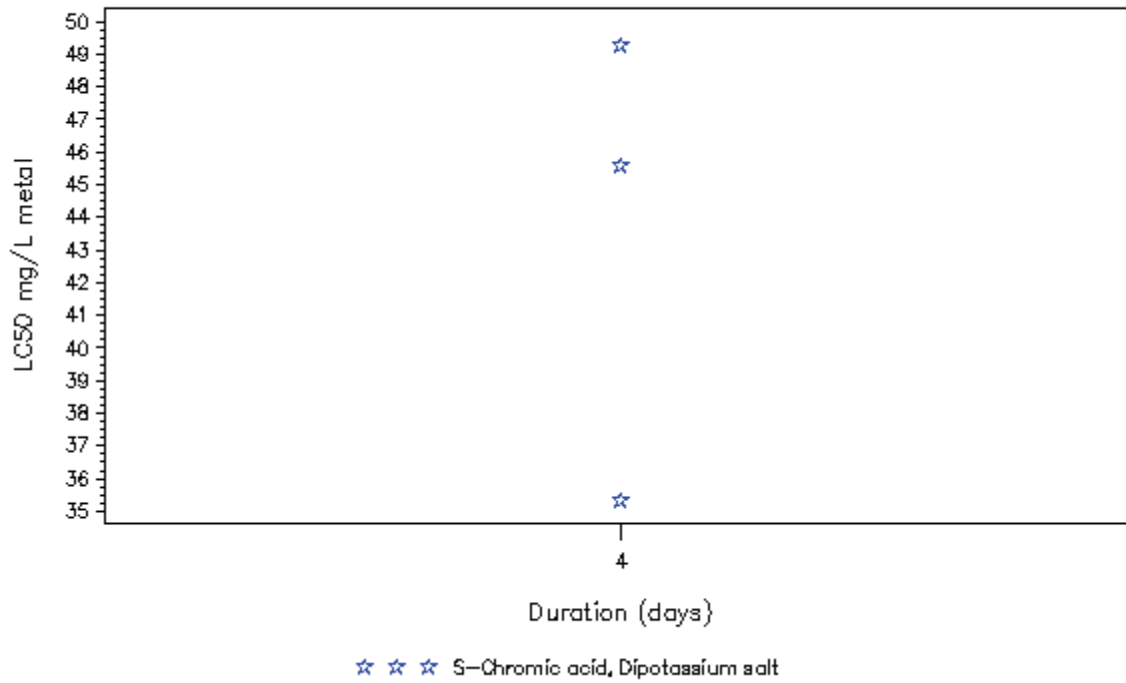


Morone saxatilis exposed to Chromium at T>15C in soft water

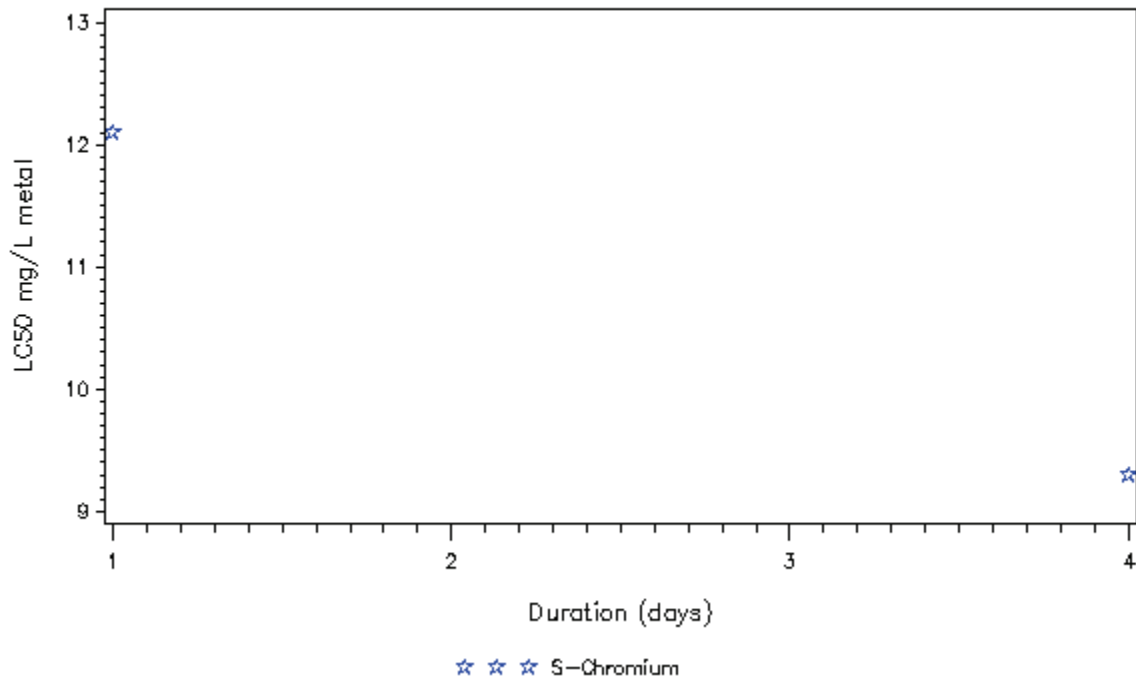


S – Static Test, F – Flowthrough Test, R –Renewal Test

Mystus vittatus vittatus exposed to Chromium at T>15C in very hard water

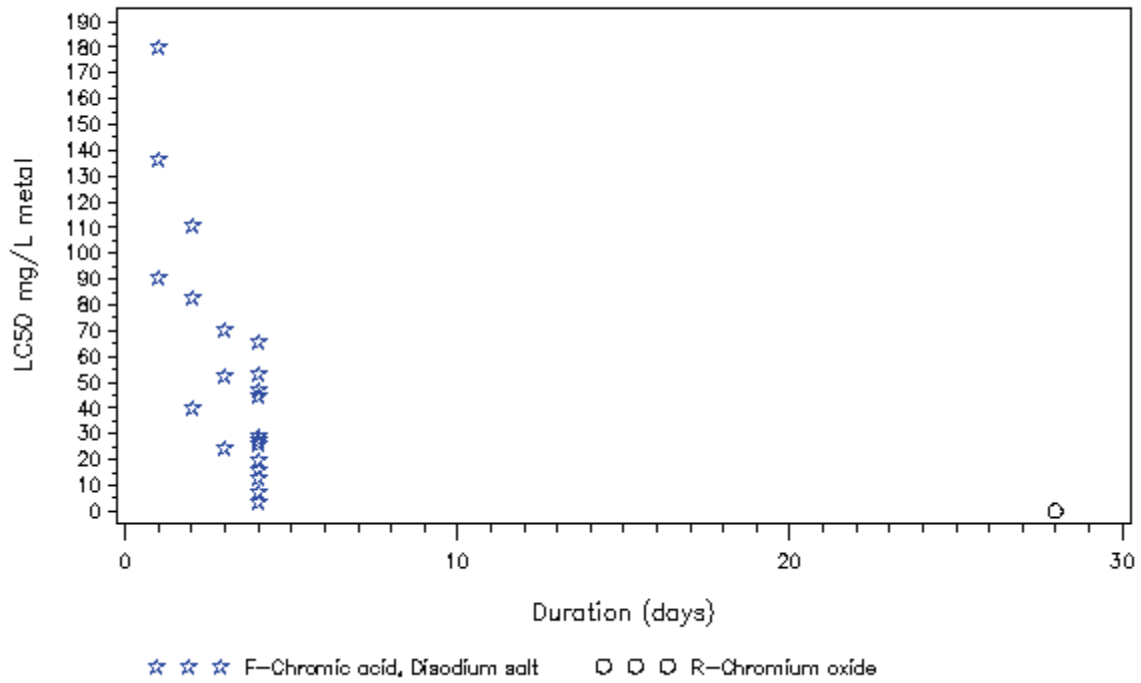


Nais exposed to Chromium at T>15C in soft water

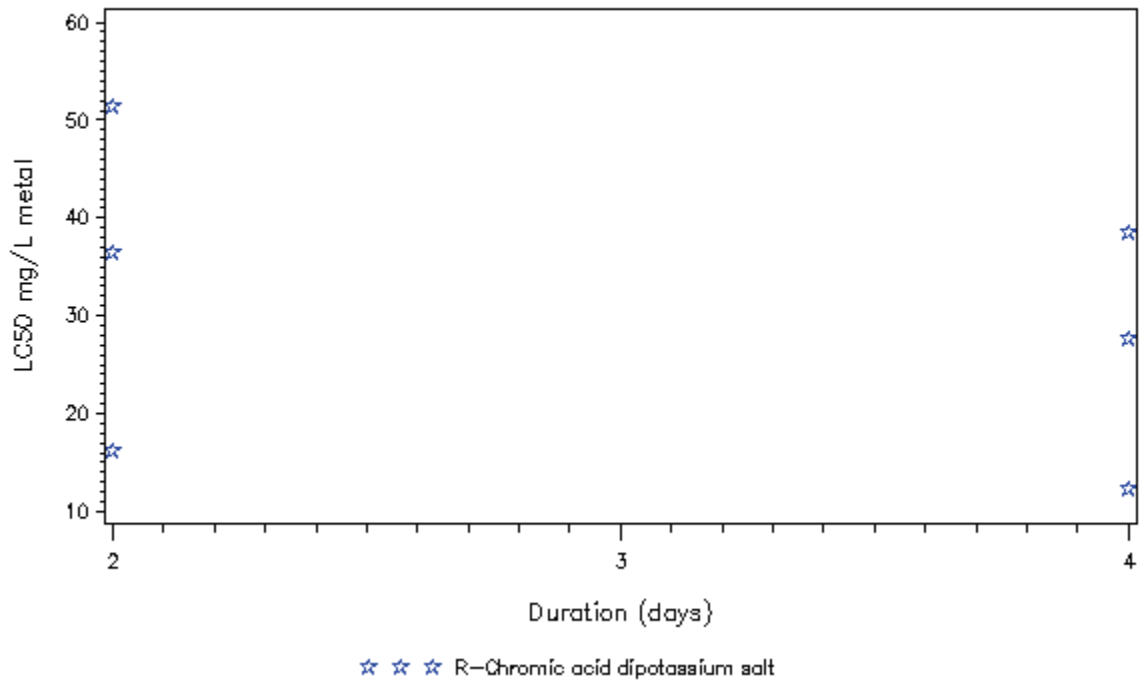


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Chromium at T<=15C in moderate water

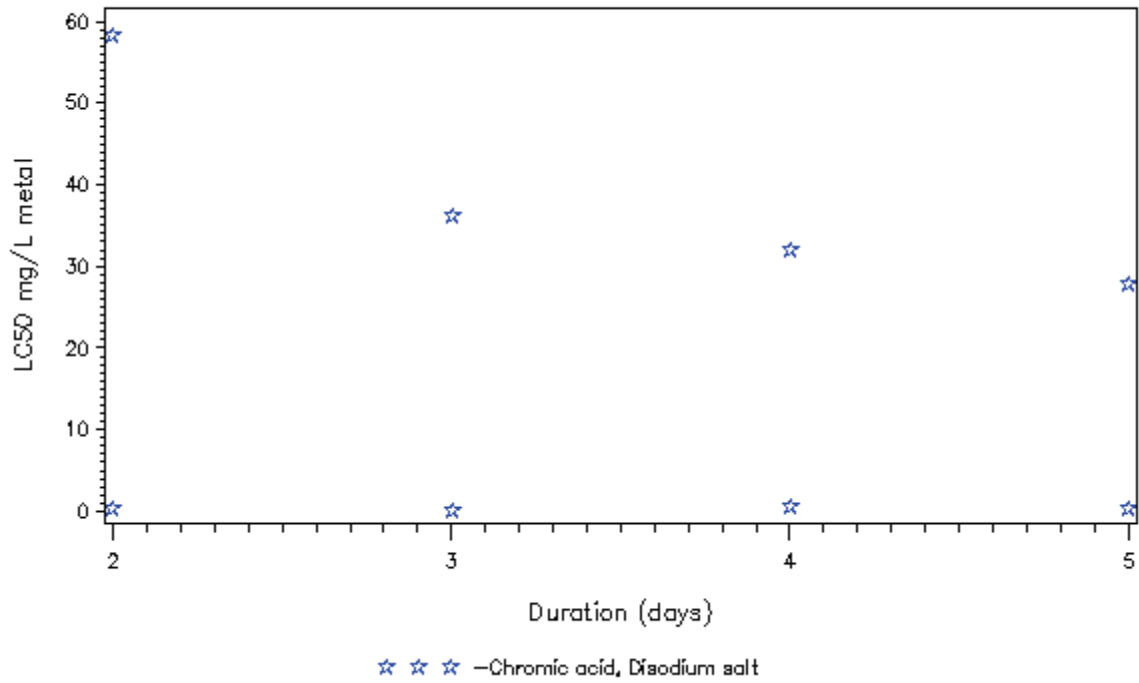


Oncorhynchus mykiss exposed to Chromium at T<=15C in very hard water

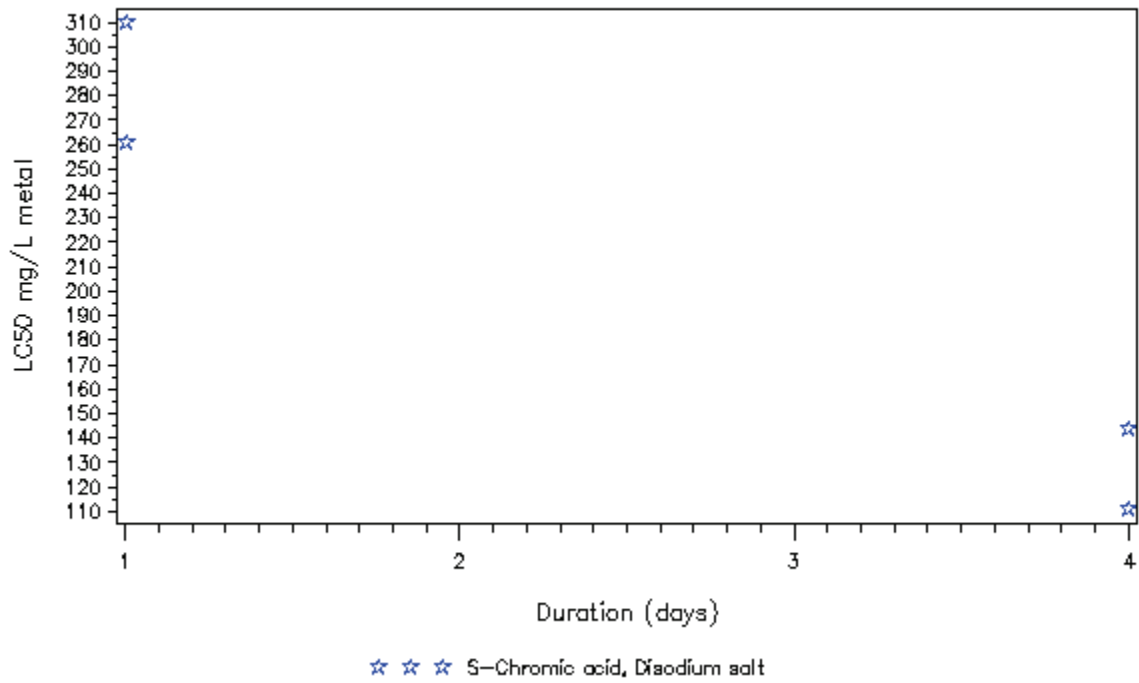


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Chromium at T<=15C in very soft water

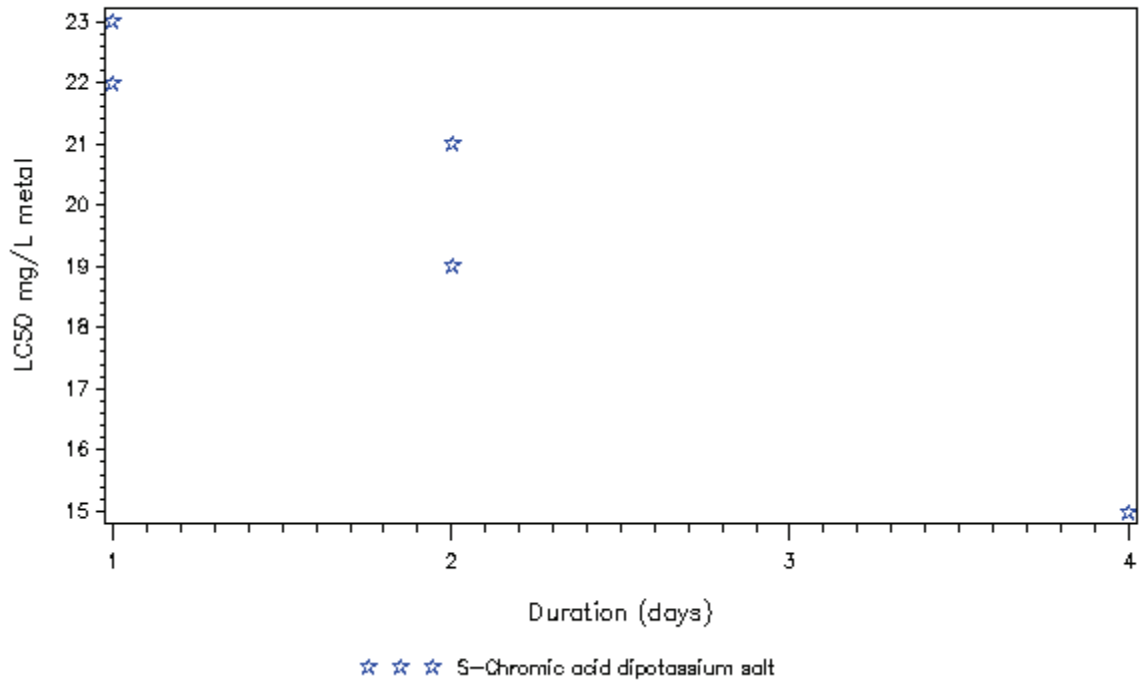


Oncorhynchus tshawytscha exposed to Chromium at T<=15C in very hard water

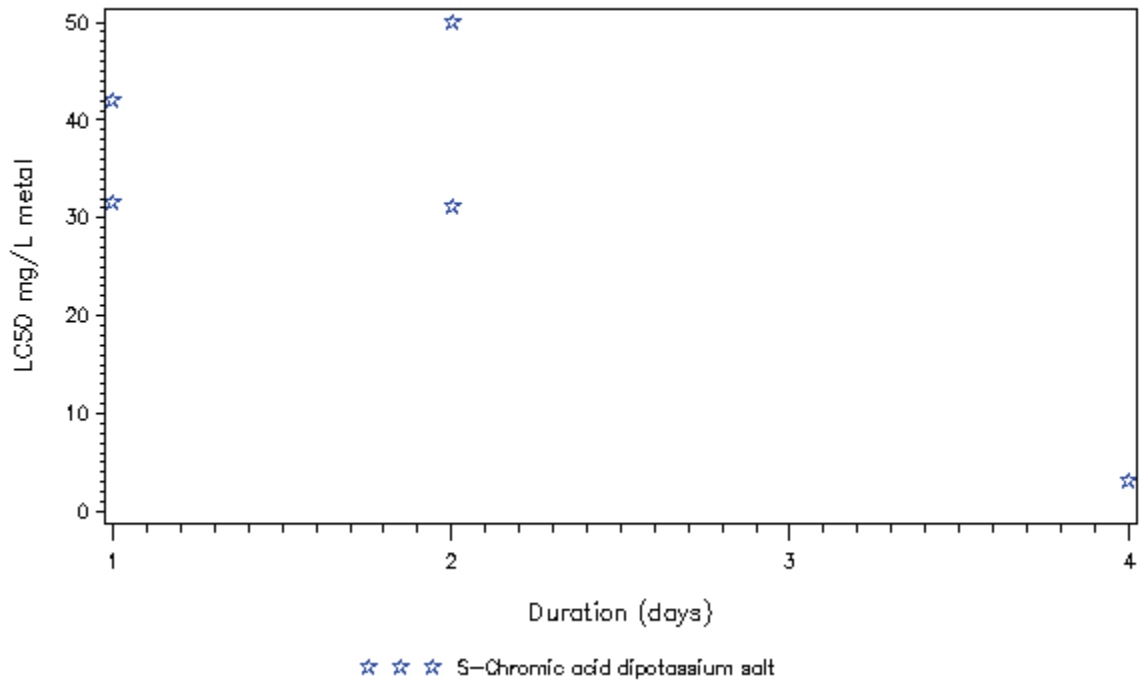


S – Static Test, F – Flowthrough Test, R –Renewal Test

Philodina acuticornis exposed to Chromium at T>15C in moderate water

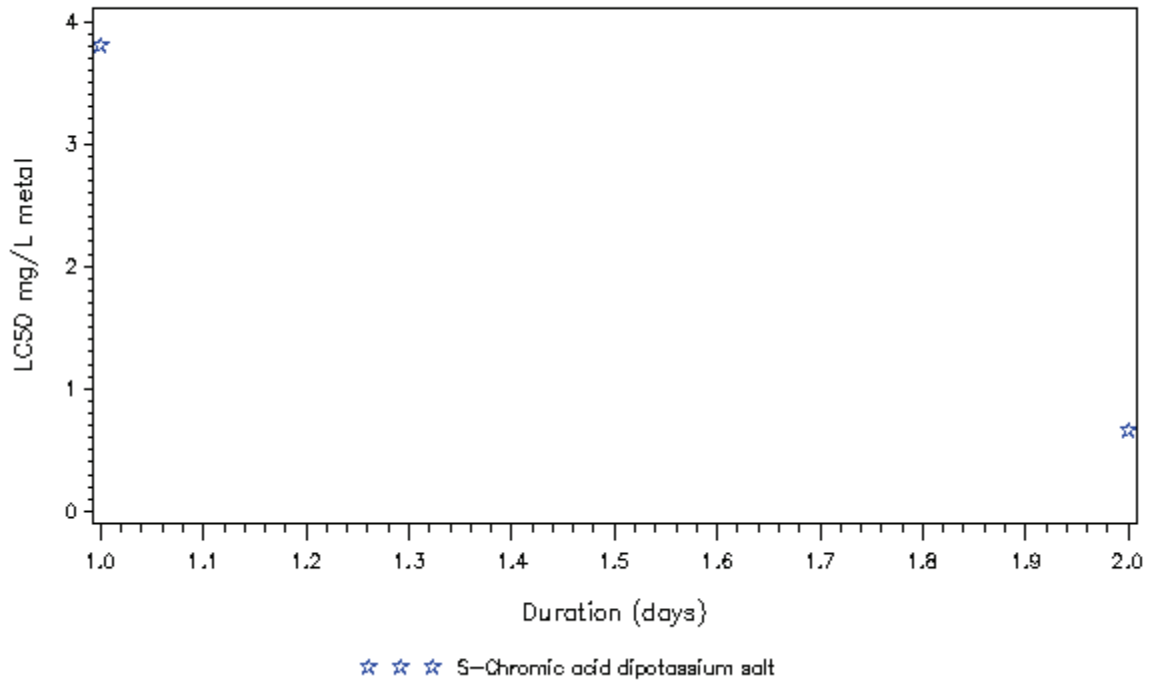


Philodina acuticornis exposed to Chromium at T>15C in soft water

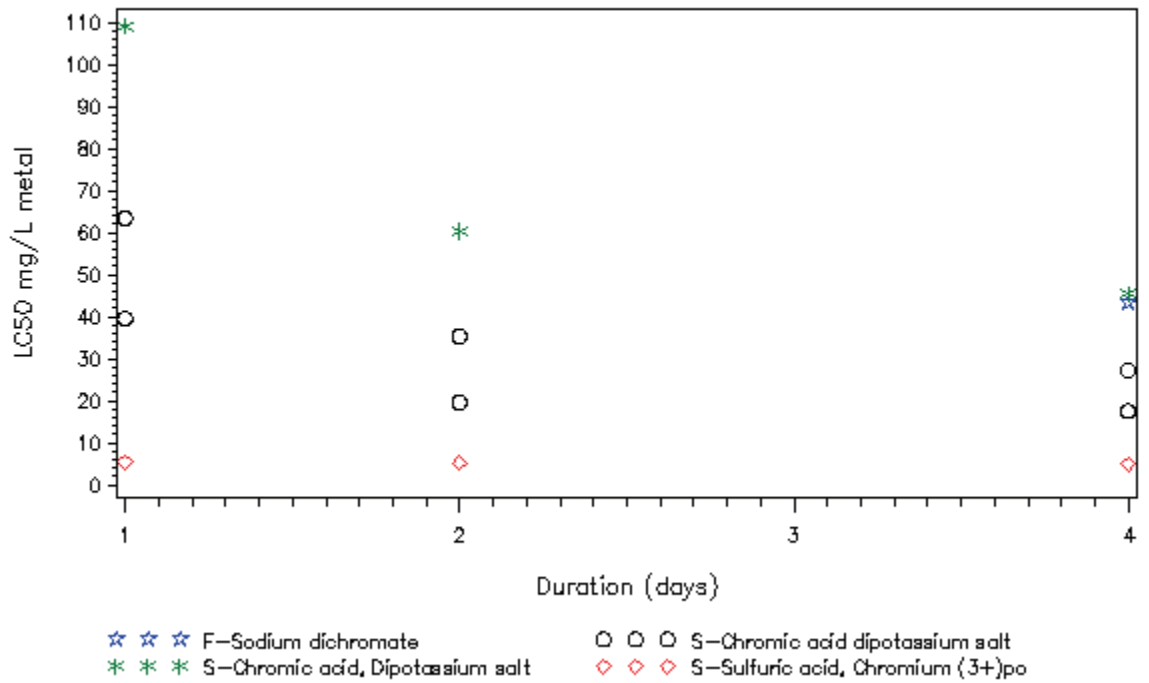


S – Static Test, F – Flowthrough Test, R –Renewal Test

Physa integra exposed to Chromium at T>15C in hard water

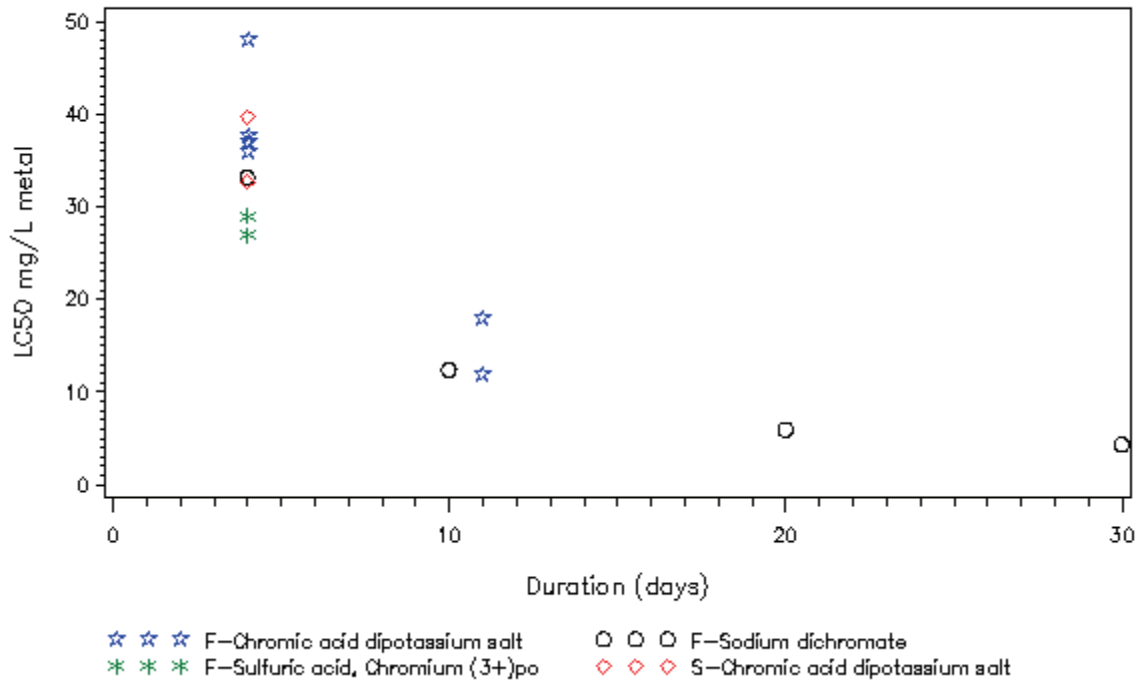


Pimephales promelas exposed to Chromium at T>15C in soft water

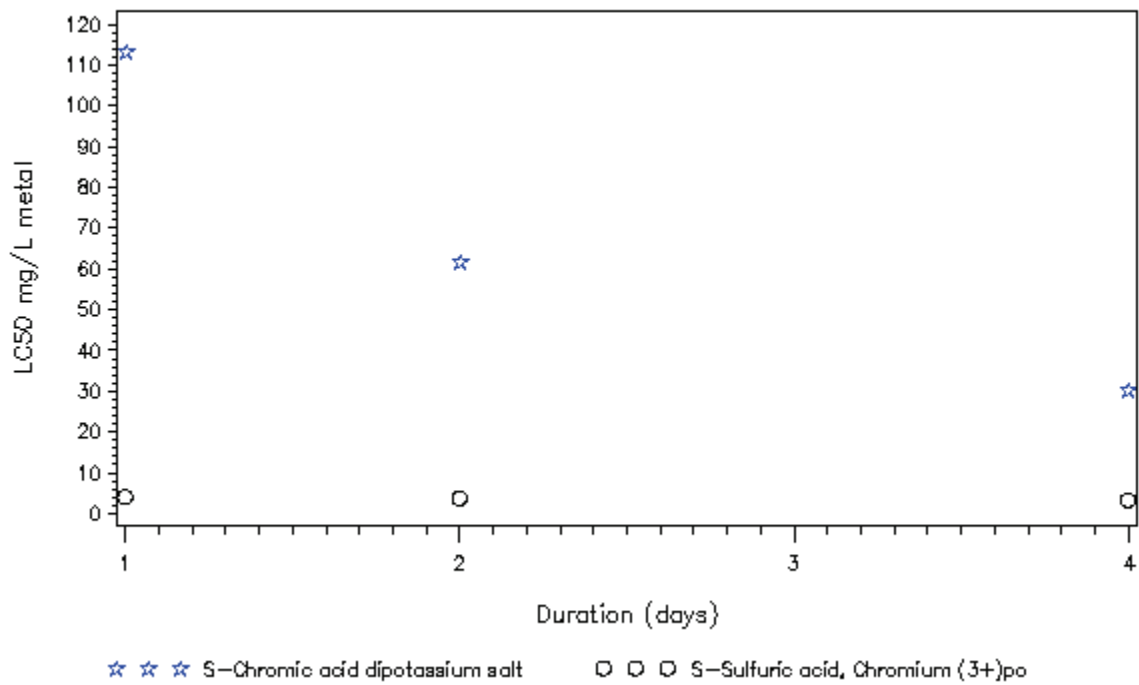


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Chromium at T>15C in very hard water

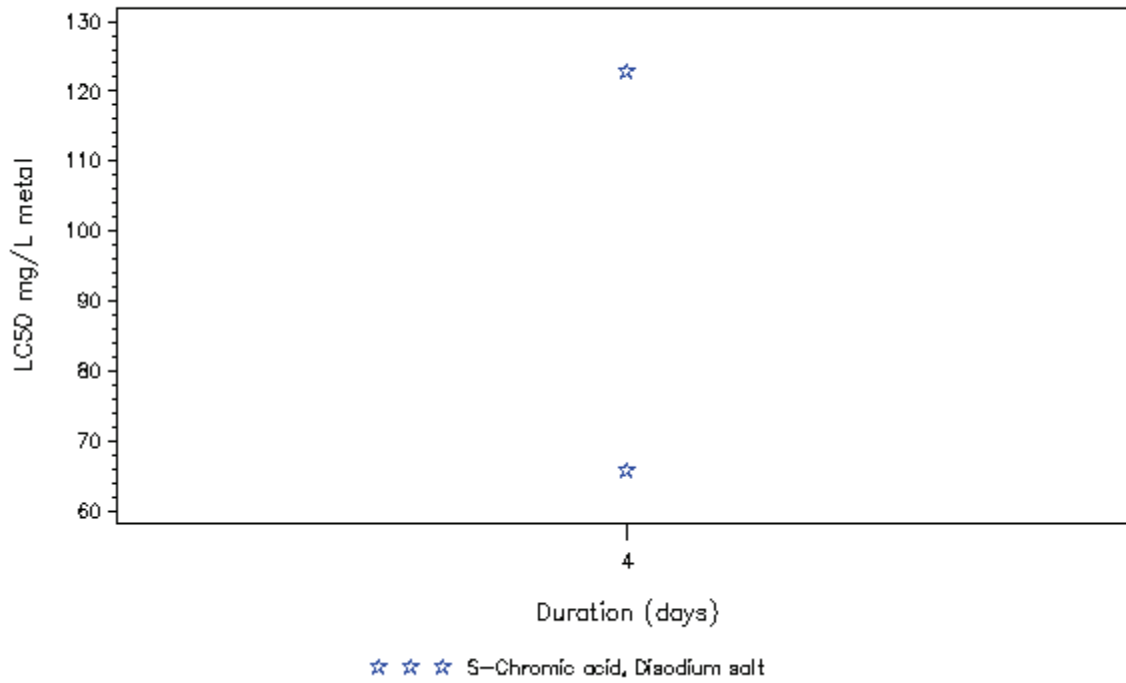


Poecilia reticulata exposed to Chromium at T>15C in soft water

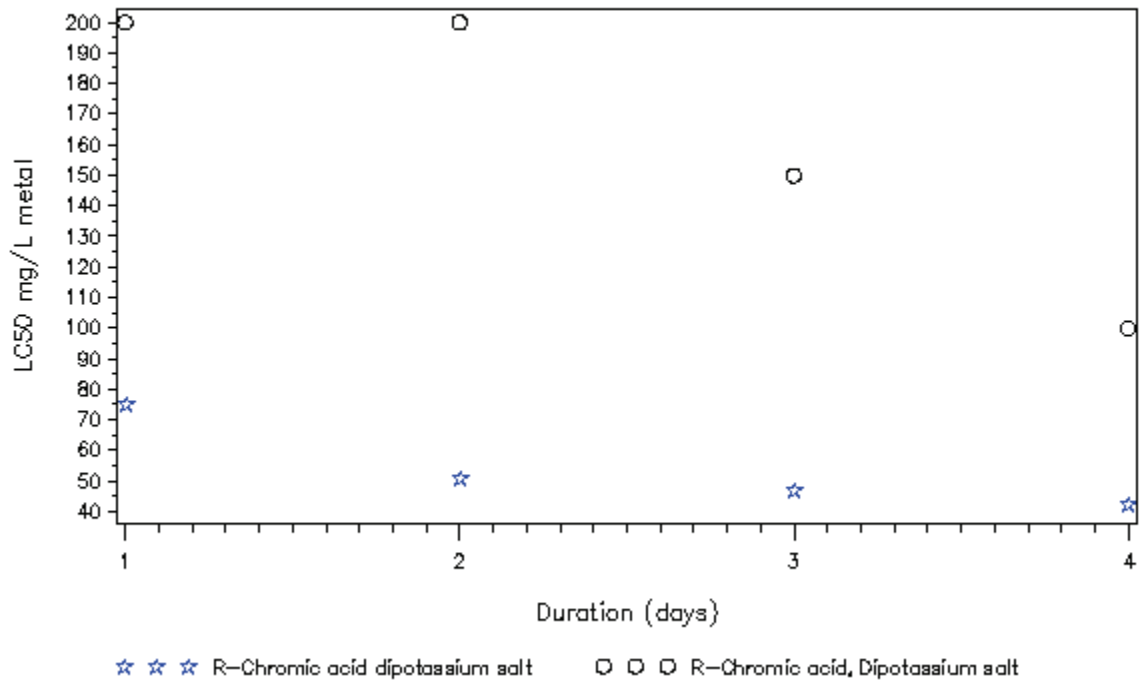


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ptychocheilus lucius exposed to Chromium at T>15C in very hard water

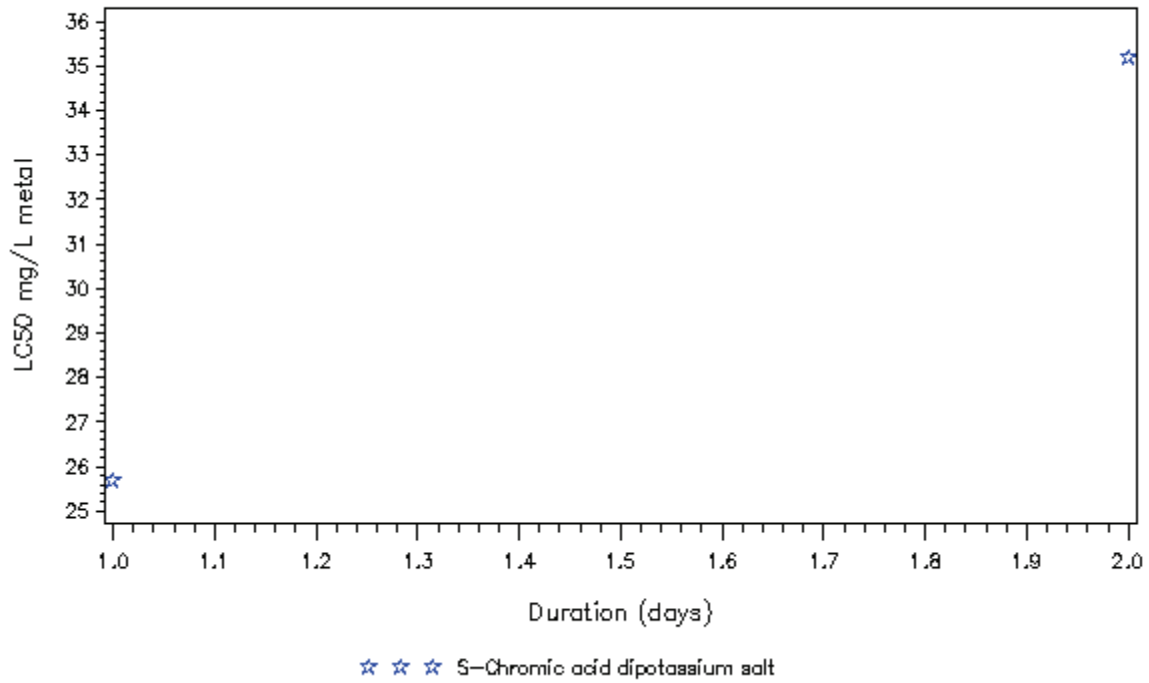


Rana hexadactyla exposed to Chromium at T<=15C in soft water

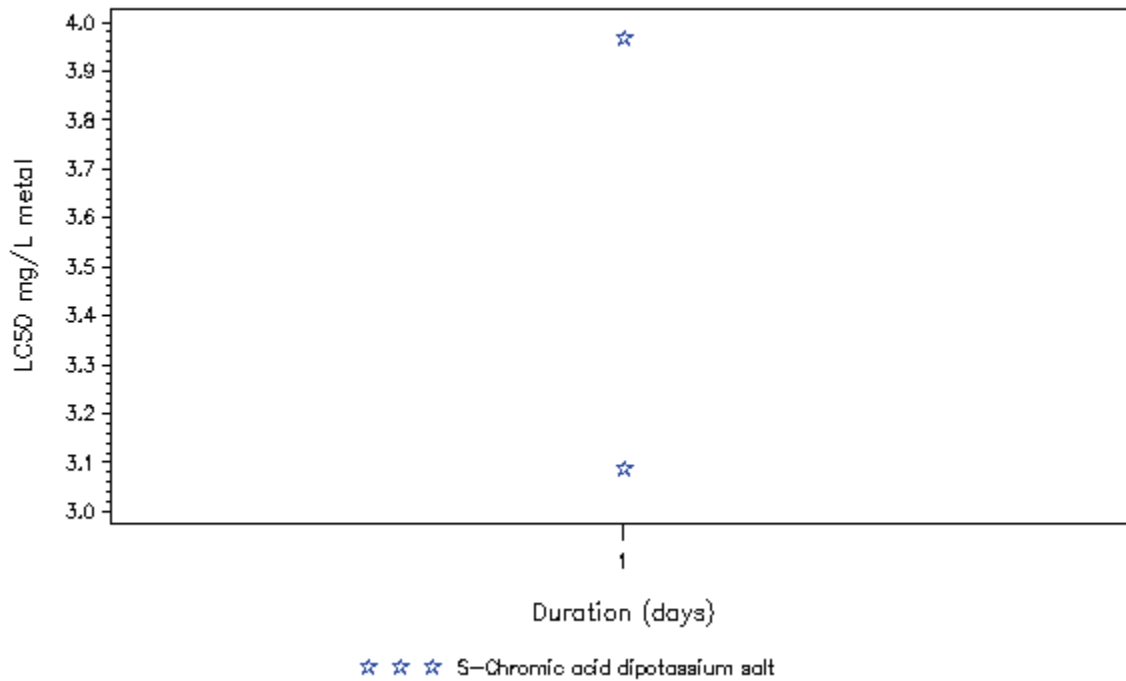


S – Static Test, F – Flowthrough Test, R –Renewal Test

Spirostomum ambiguum exposed to Chromium at T>15C in very soft water

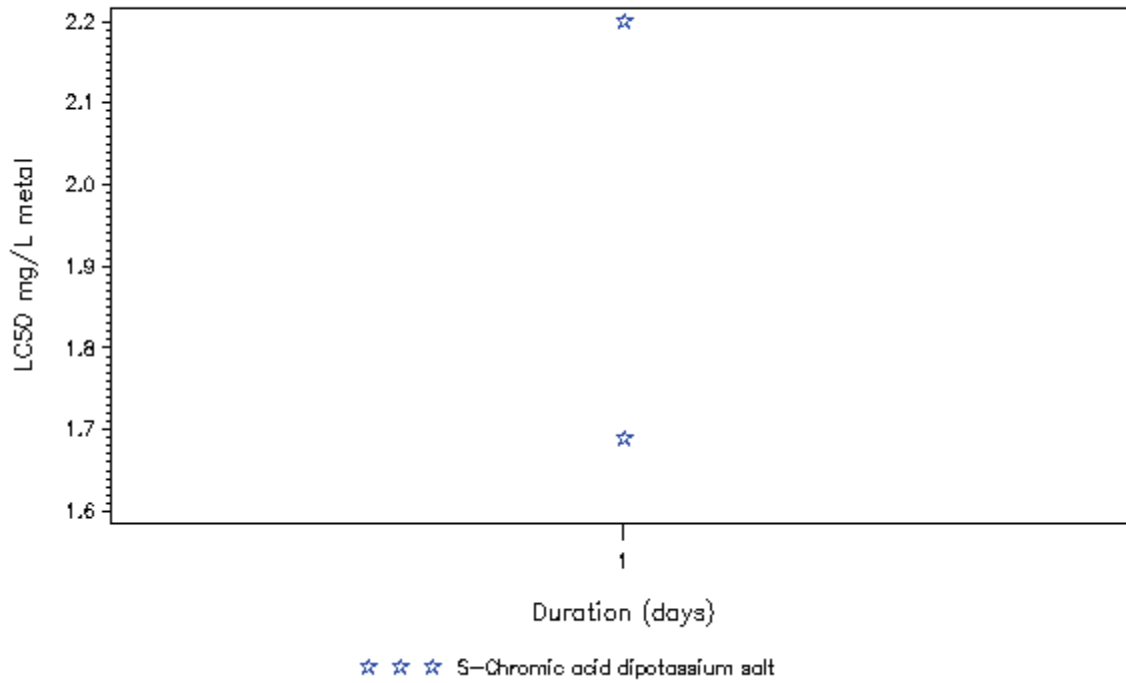


Streptocephalus proboscideus exposed to Chromium at T<=15C in hard water

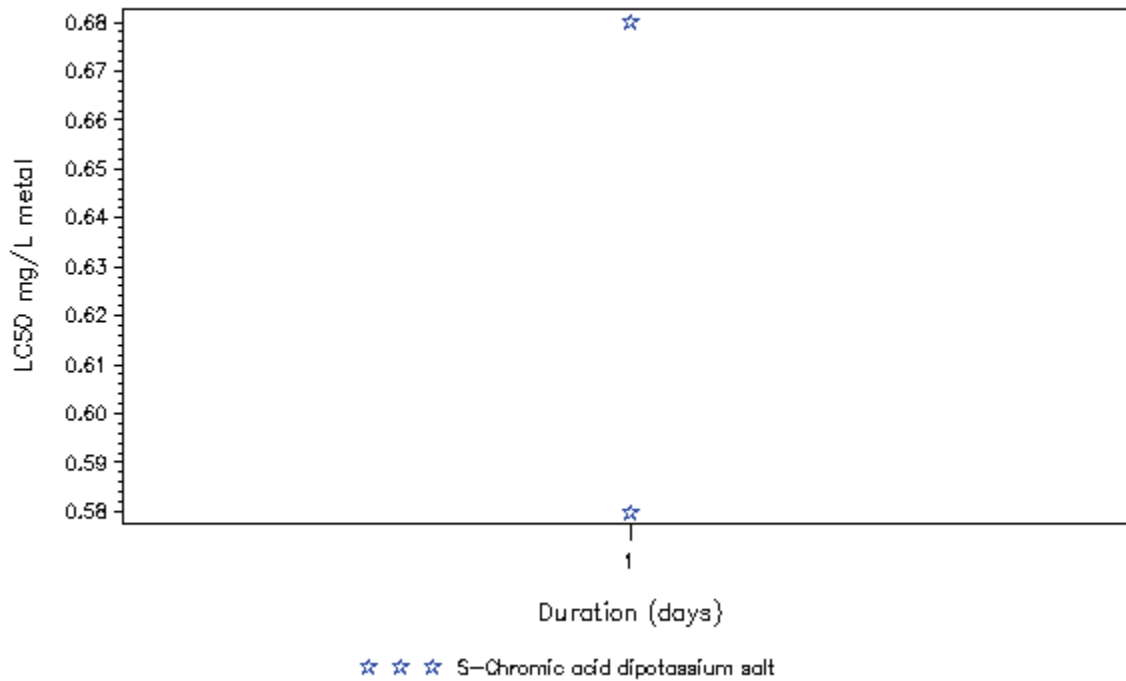


S – Static Test, F – Flowthrough Test, R –Renewal Test

Streptocephalus proboscideus exposed to Chromium at T<=15C in moderate water

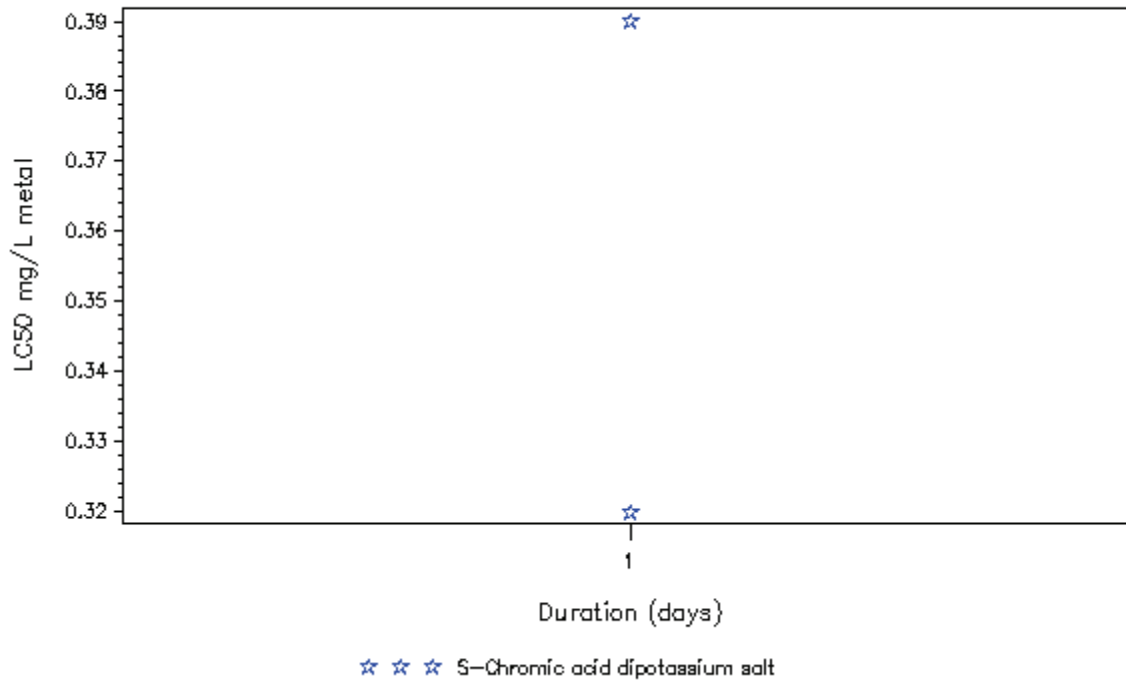


Streptocephalus proboscideus exposed to Chromium at T<=15C in soft water

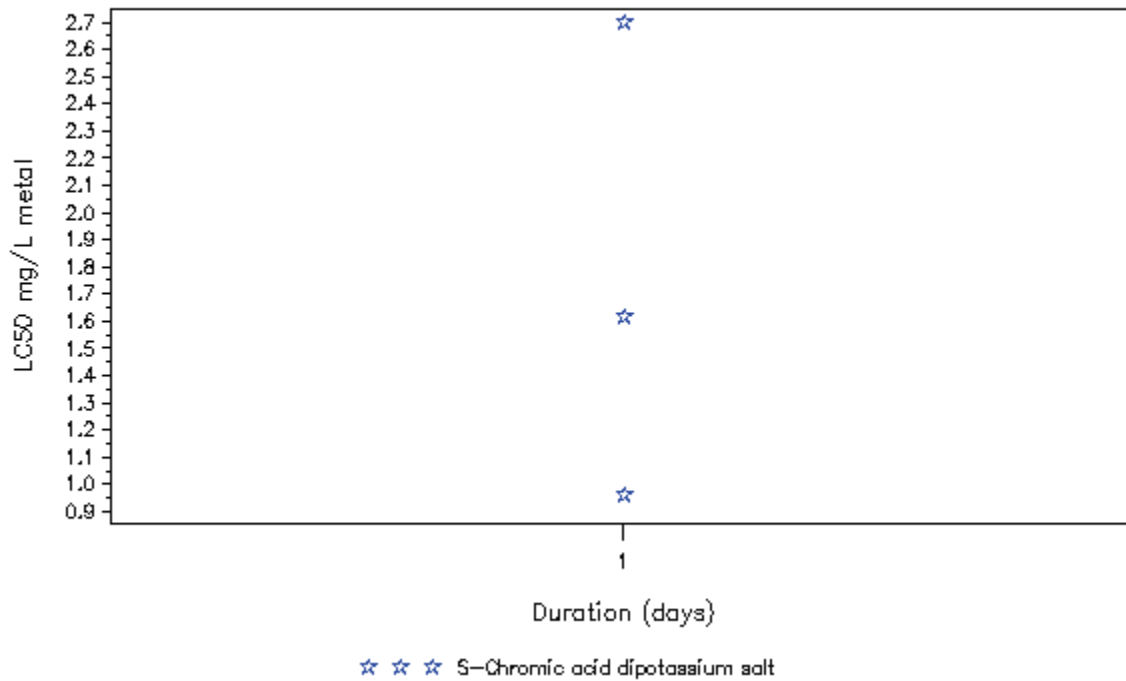


S – Static Test, F – Flowthrough Test, R –Renewal Test

Streptocephalus proboscideus exposed to Chromium at T<=15C in very soft water

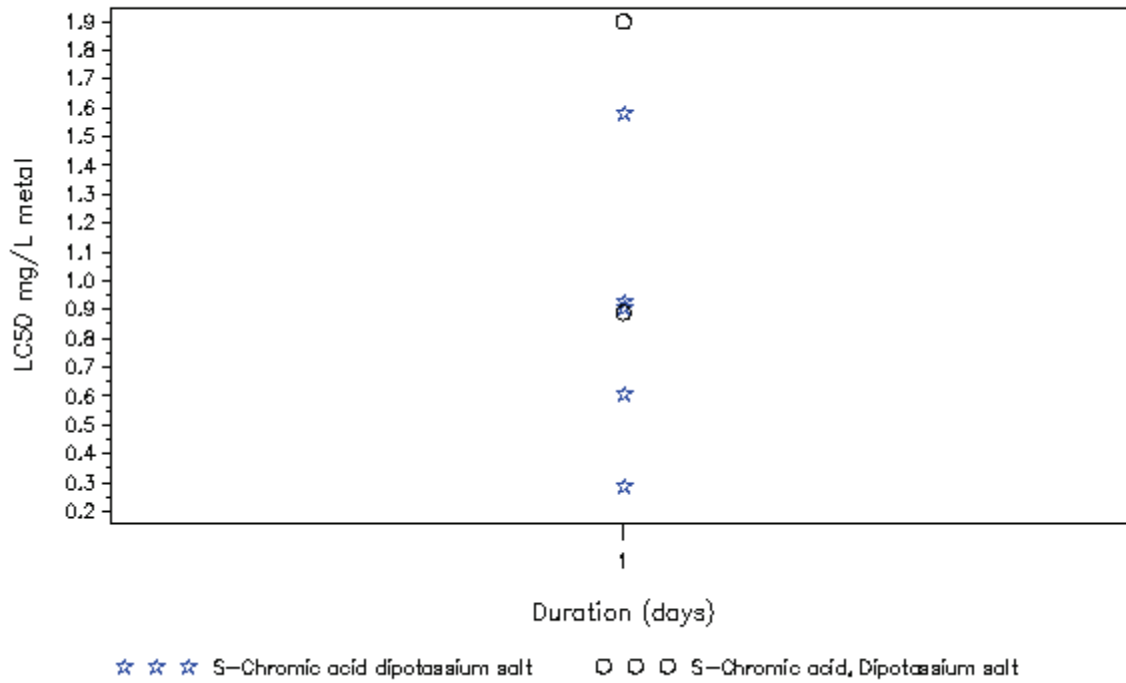


Streptocephalus proboscideus exposed to Chromium at T>15C in hard water

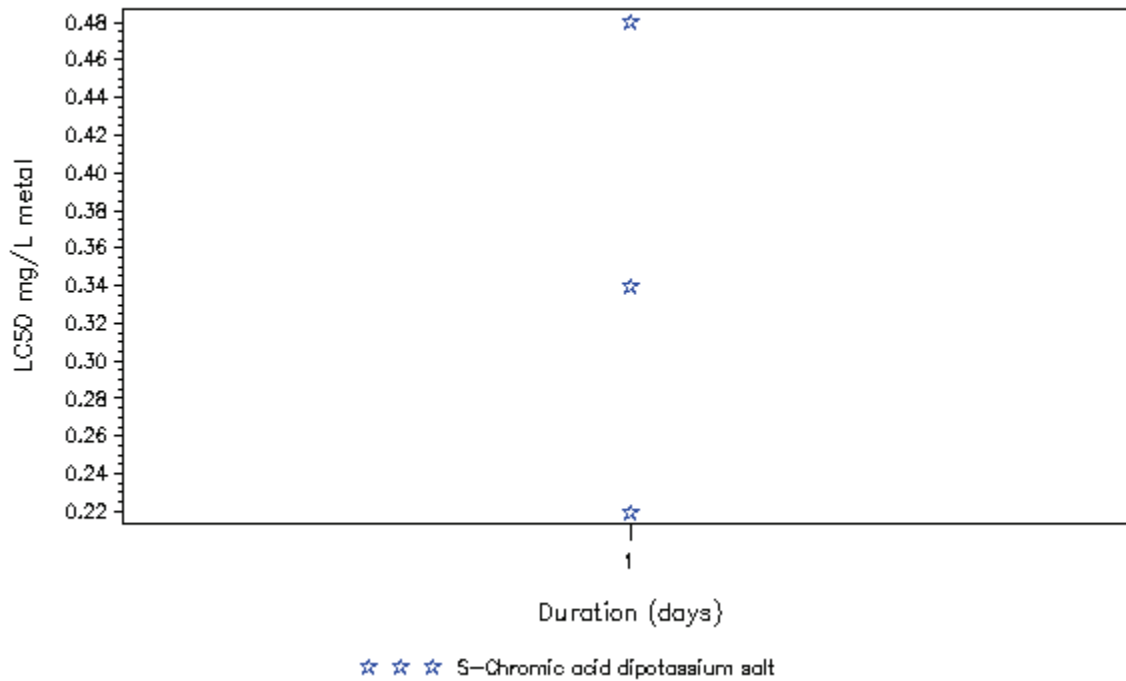


S – Static Test, F – Flowthrough Test, R –Renewal Test

Streptocephalus proboscideus exposed to Chromium at T>15C in moderate water

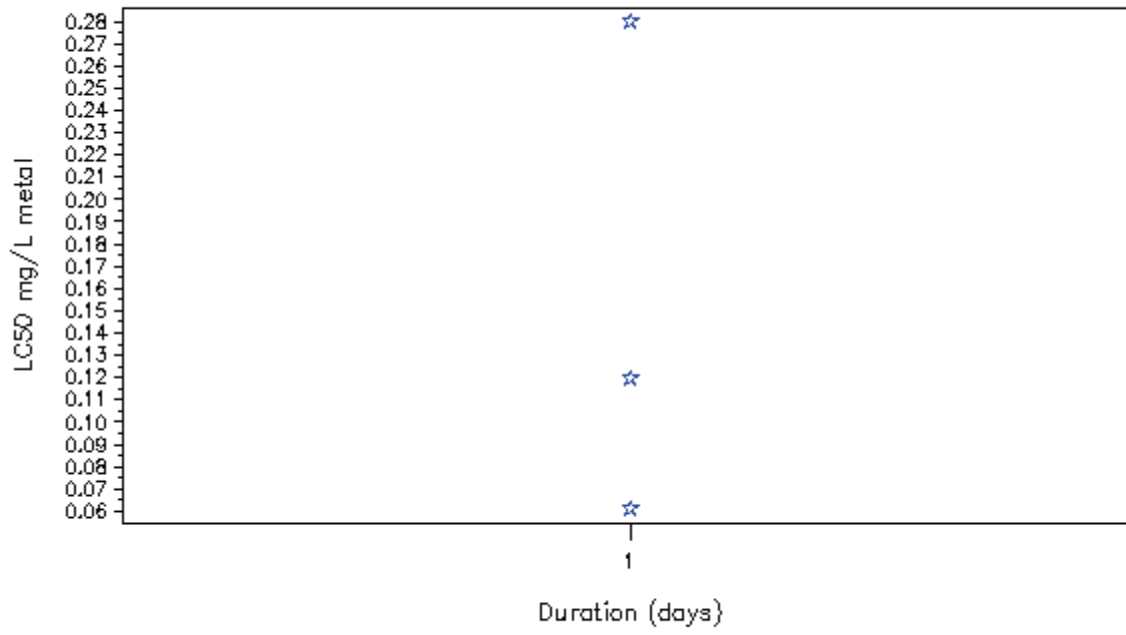


Streptocephalus proboscideus exposed to Chromium at T>15C in soft water



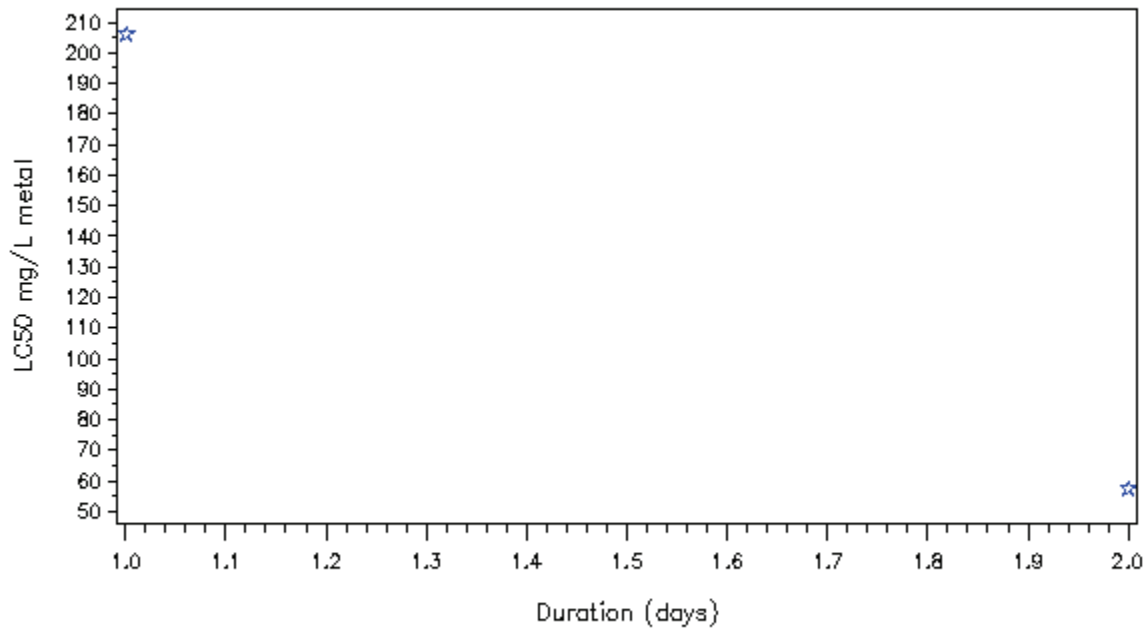
S – Static Test, F – Flowthrough Test, R –Renewal Test

Streptocephalus proboscideus exposed to Chromium at T>15C in very soft water



☆☆☆ S-Chromic acid dipotassium salt

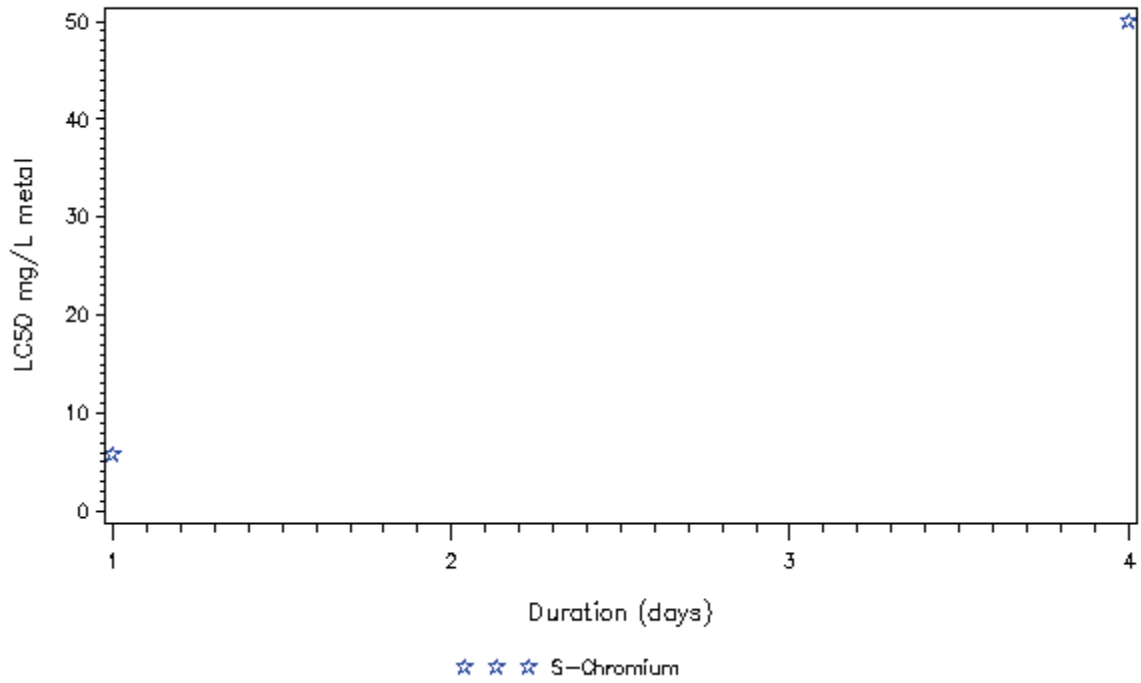
Tanytarsus dissimilis exposed to Chromium at T>15C in soft water



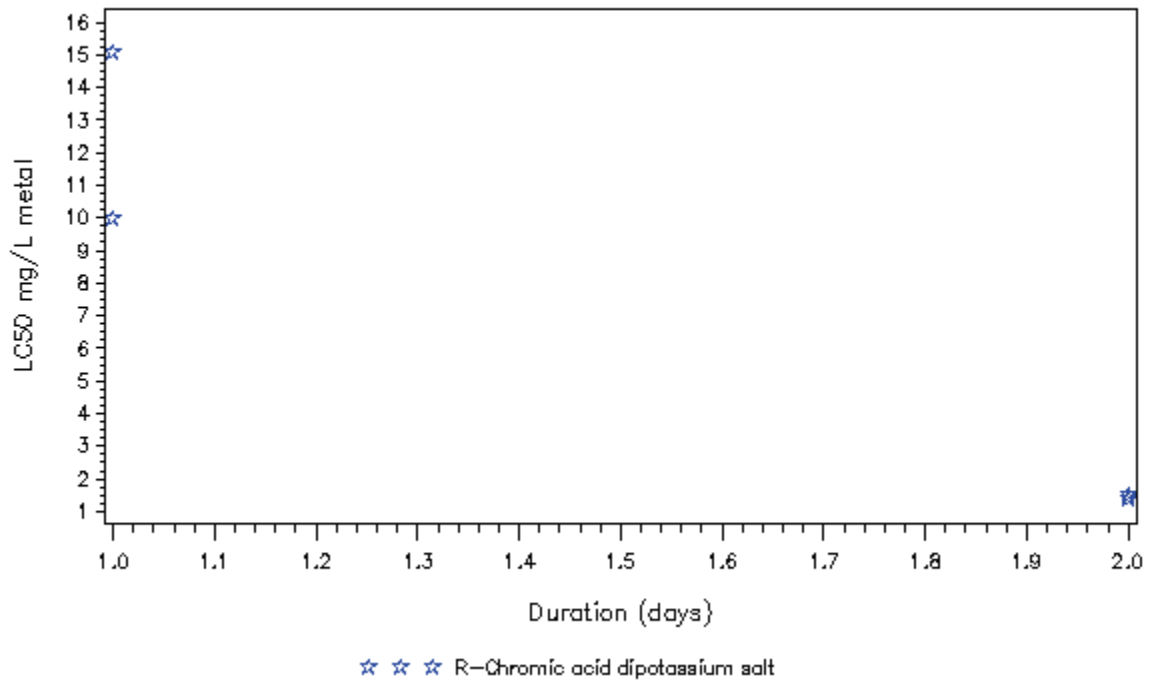
☆☆☆ S-Chromic acid dipotassium salt

S – Static Test, F – Flowthrough Test, R –Renewal Test

Trichoptera exposed to Chromium at T>15C in soft water

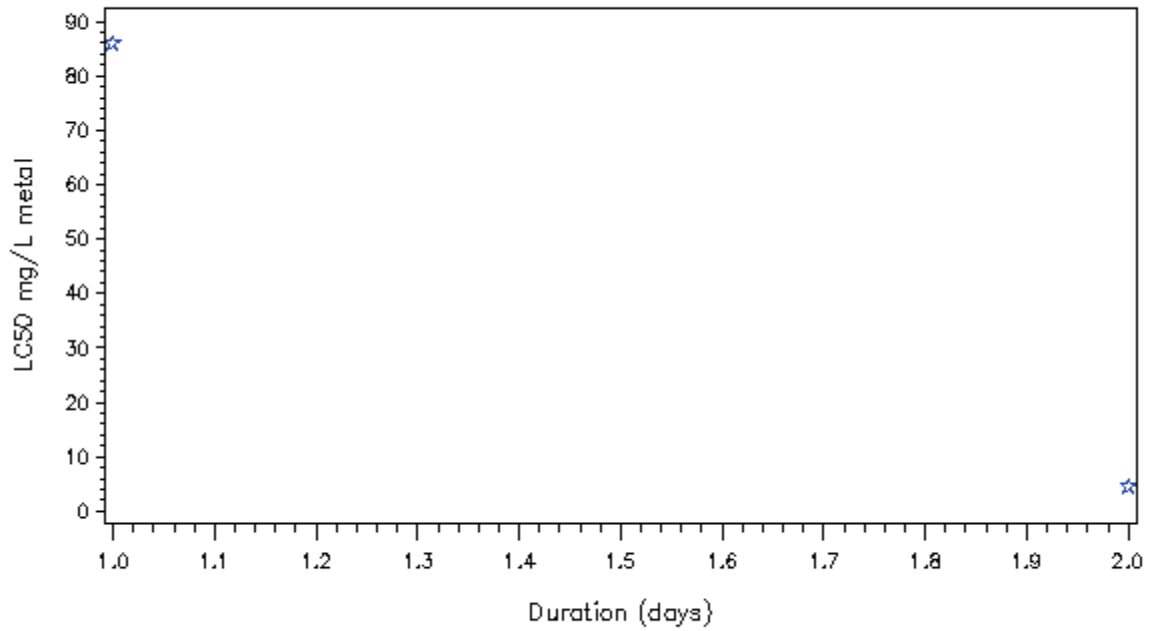


Tubifex tubifex exposed to Chromium at T>15C in soft water



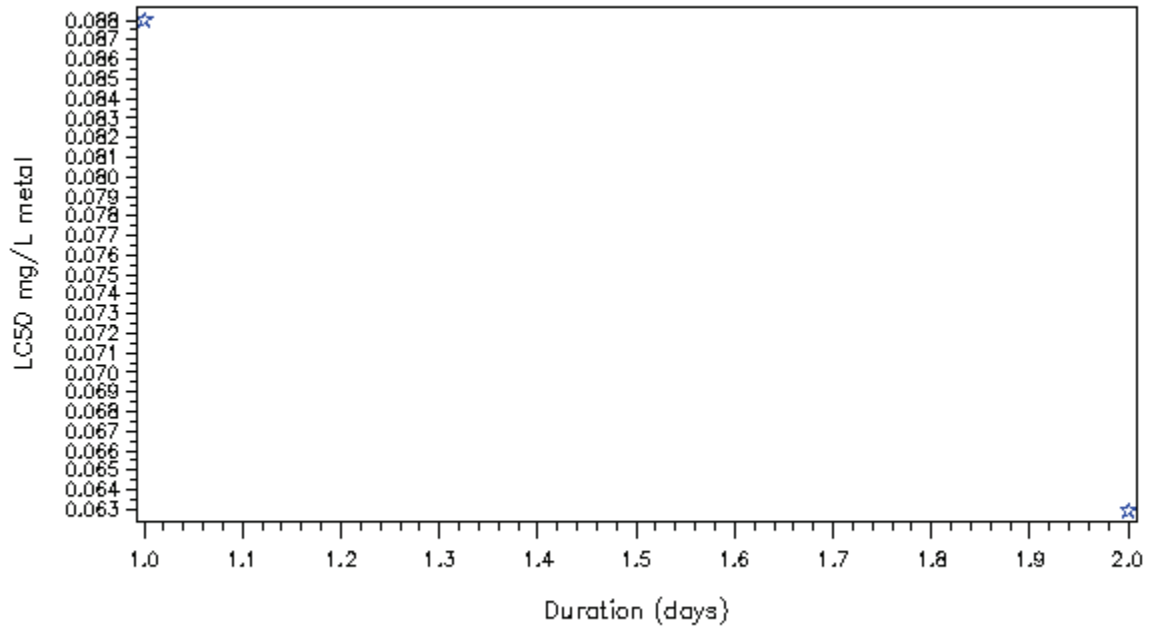
S – Static Test, F – Flowthrough Test, R –Renewal Test

Tubifex tubifex exposed to Chromium at T>15C in very hard water



☆☆☆ R-Chromic acid dipotassium salt

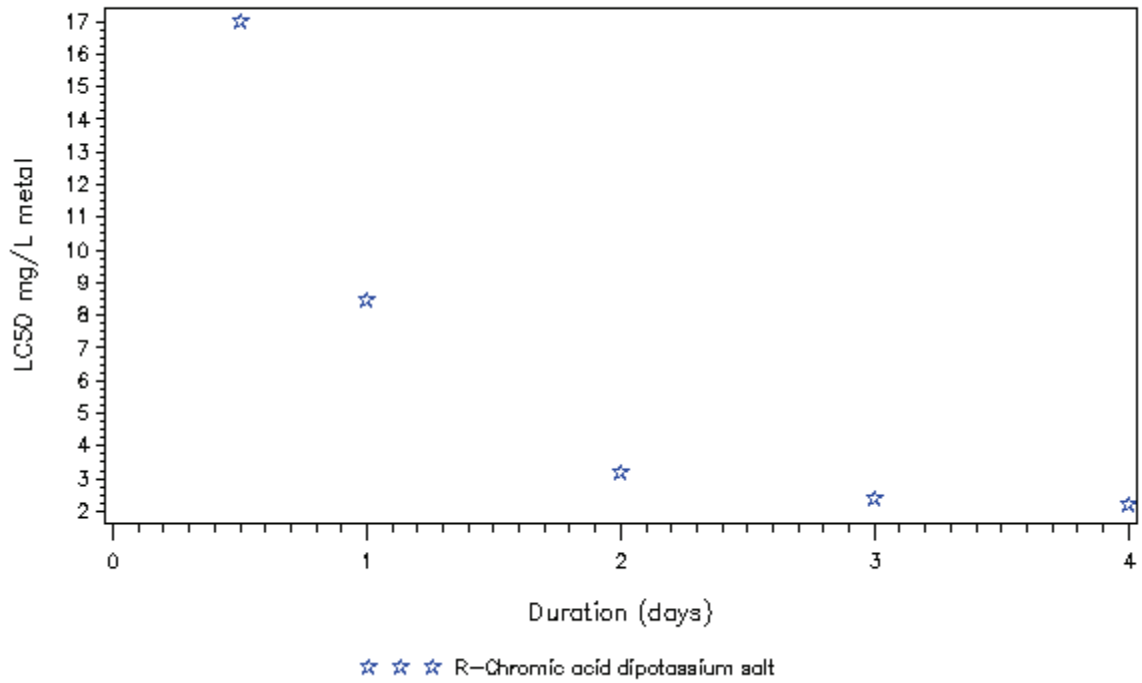
Tubifex tubifex exposed to Chromium at T>15C in very soft water



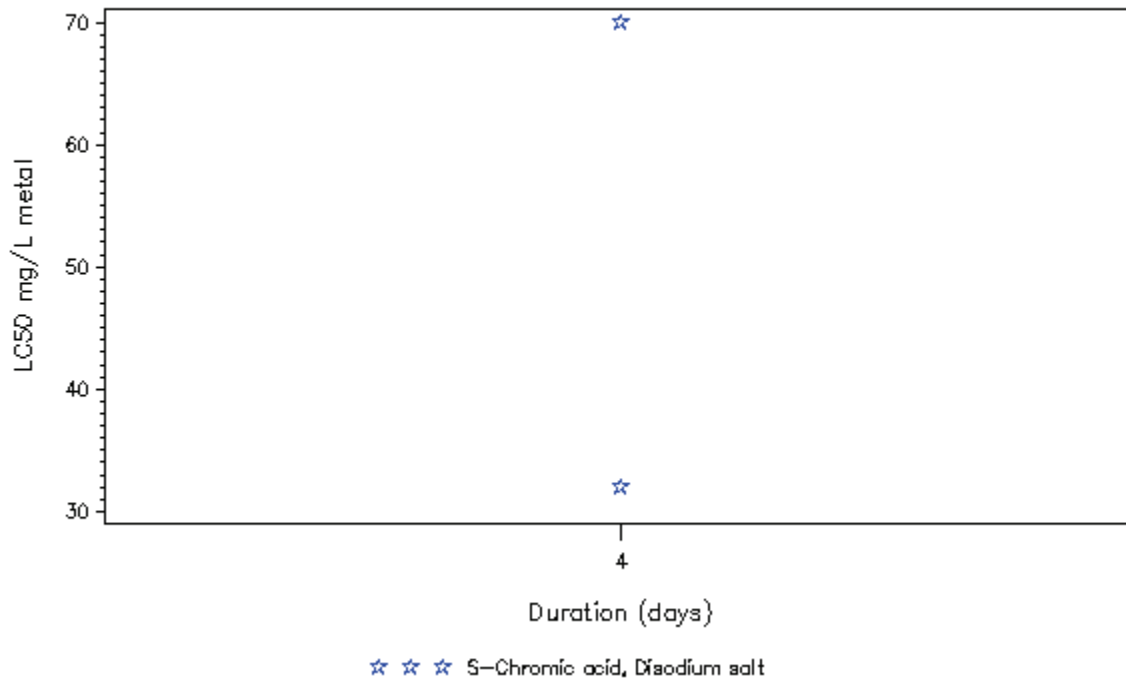
☆☆☆ R-Chromic acid dipotassium salt

S – Static Test, F – Flowthrough Test, R –Renewal Test

Viviparus bengalensis exposed to Chromium at T>15C in hard water

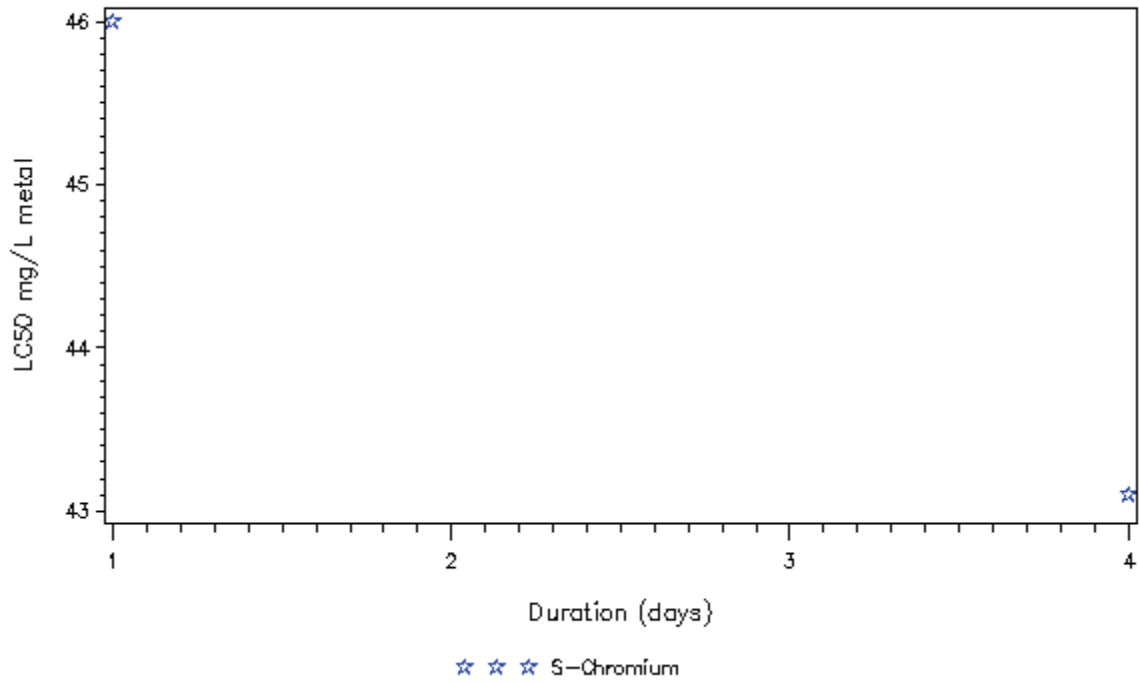


Xyrauchen texanus exposed to Chromium at T>15C in very hard water

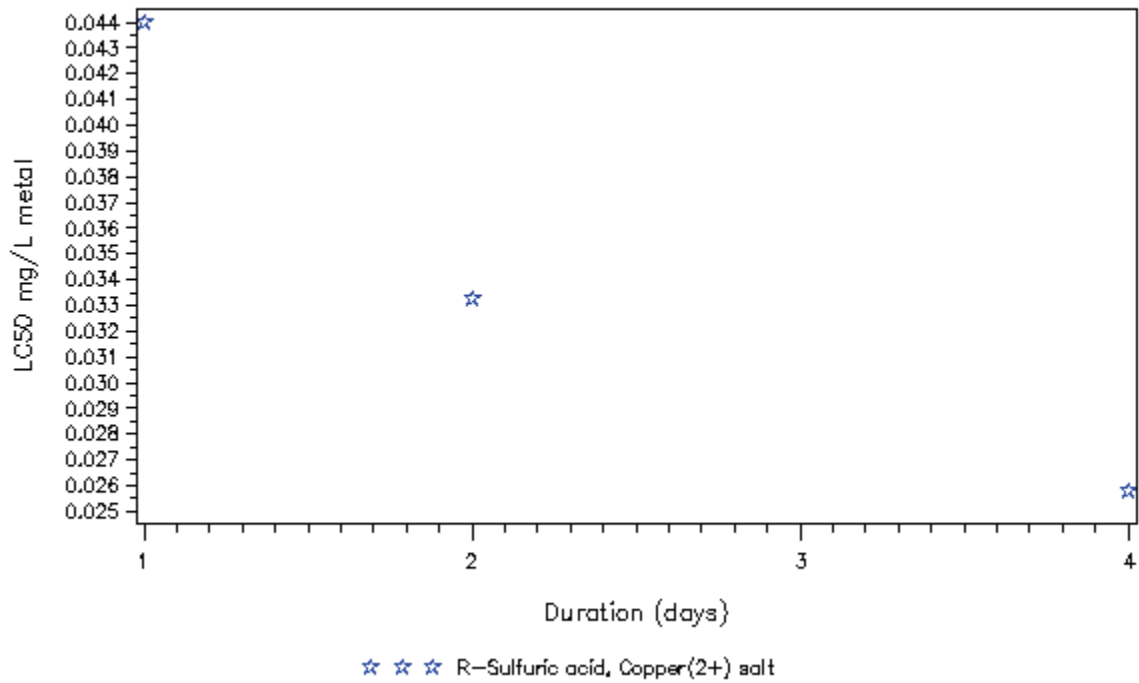


S – Static Test, F – Flowthrough Test, R –Renewal Test

Zygoptera exposed to Chromium at T>15C in soft water

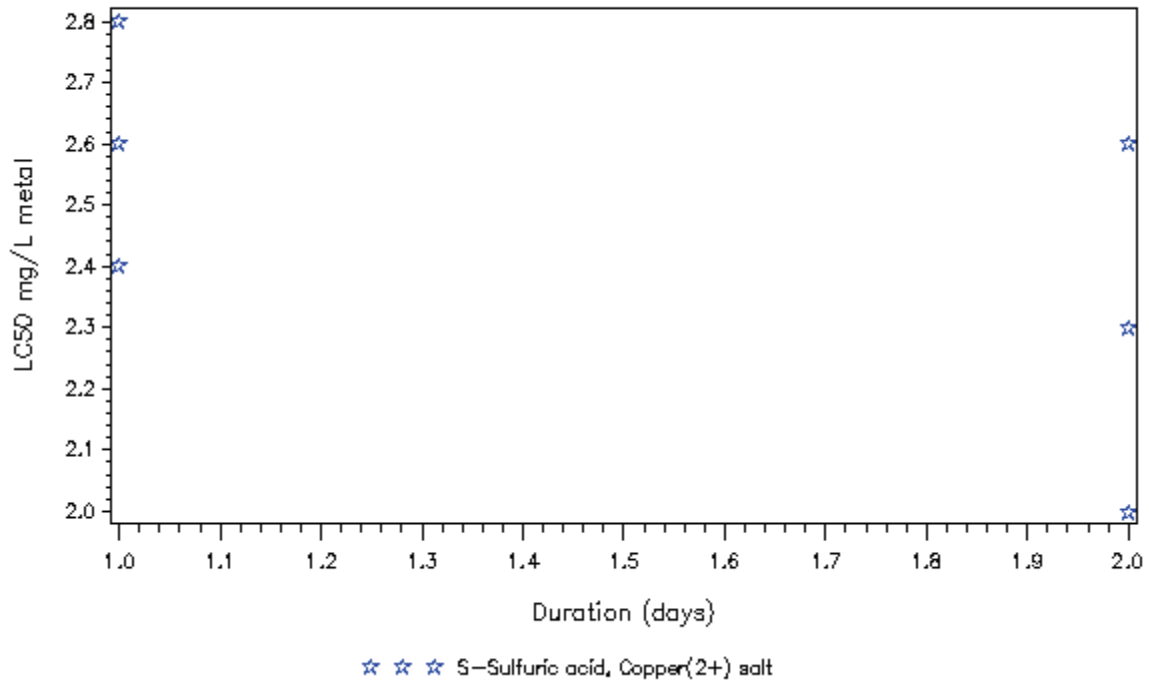


Acrossocheilus paradoxus exposed to Copper at T>15C in soft water

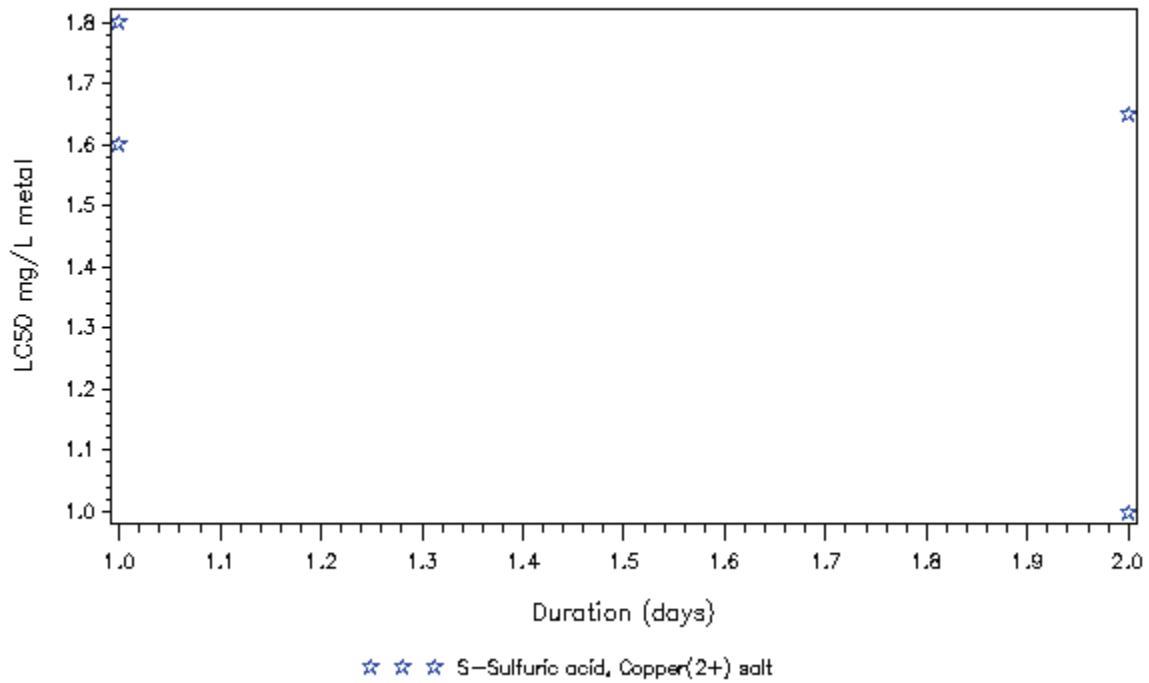


S – Static Test, F – Flowthrough Test, R –Renewal Test

Aeolosoma headleyi exposed to Copper at T<=15C in soft water

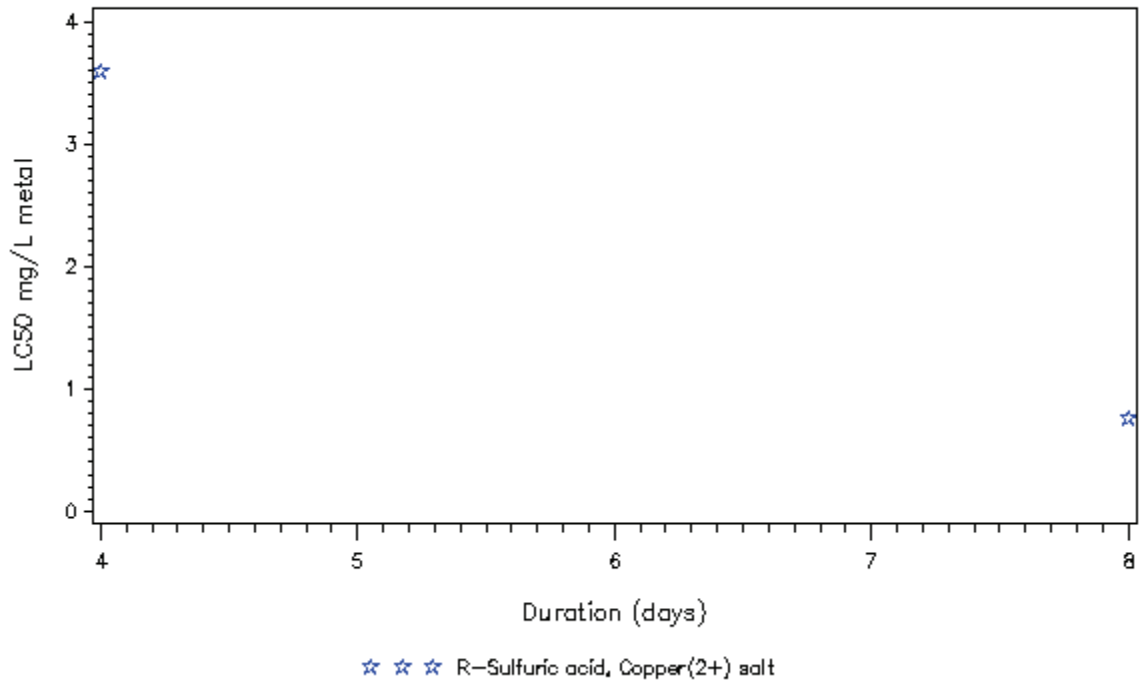


Aeolosoma headleyi exposed to Copper at T>15C in soft water

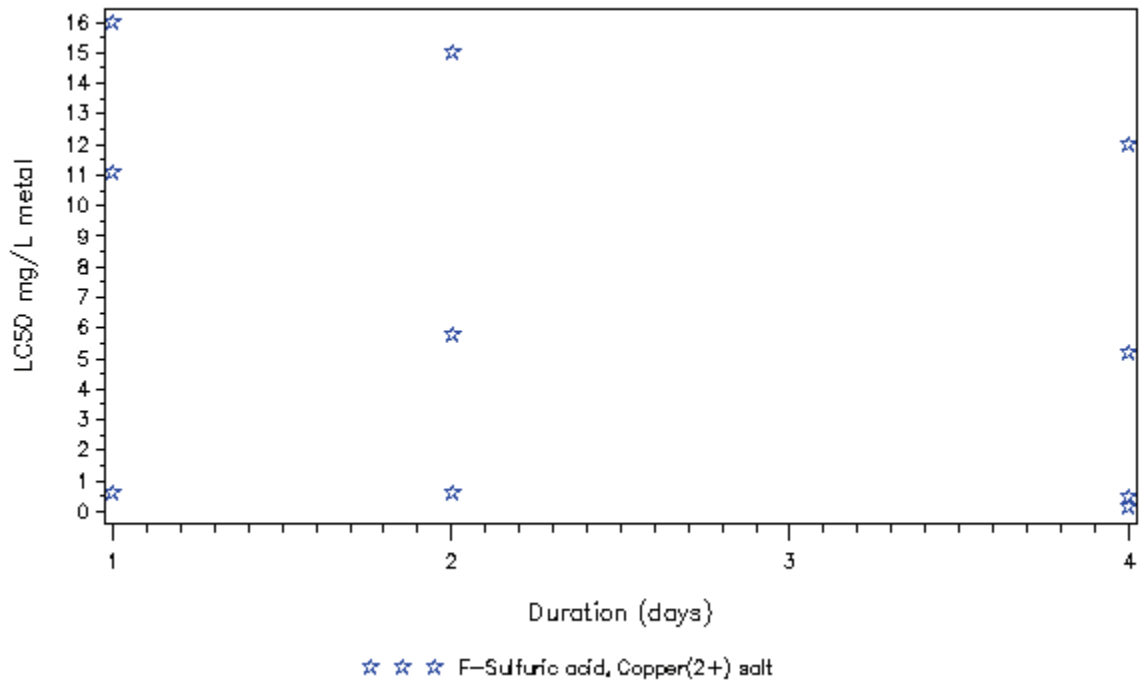


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ambystoma opacum exposed to Copper at T>15C in moderate water

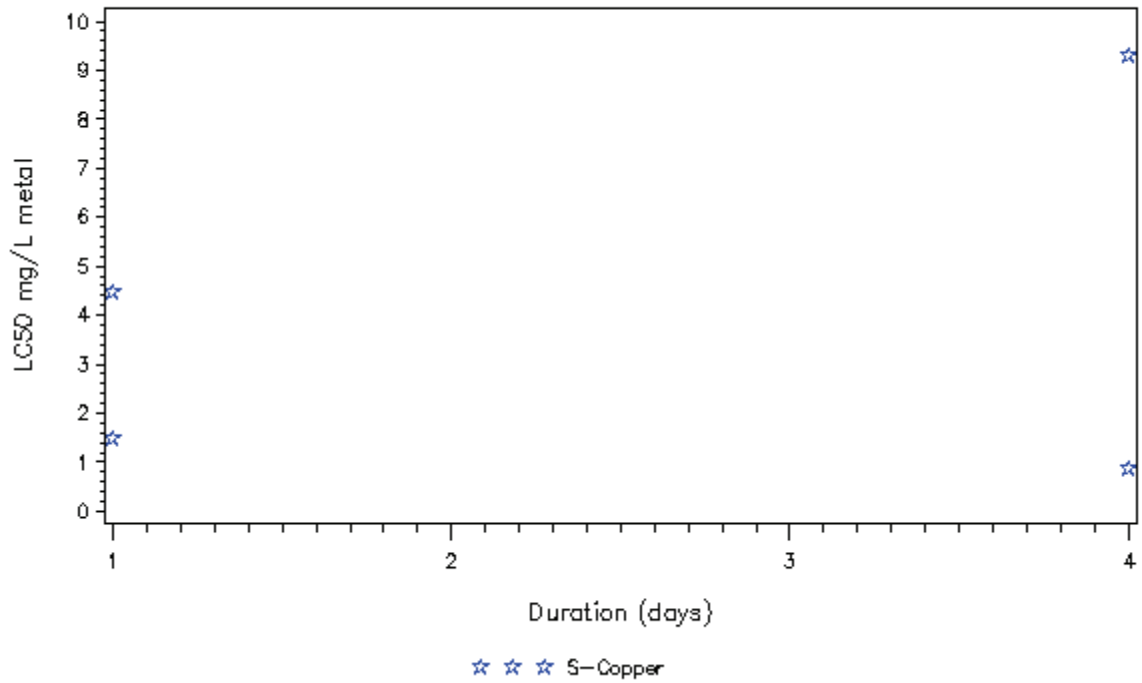


Ameiurus nebulosus exposed to Copper at T>15C in very hard water

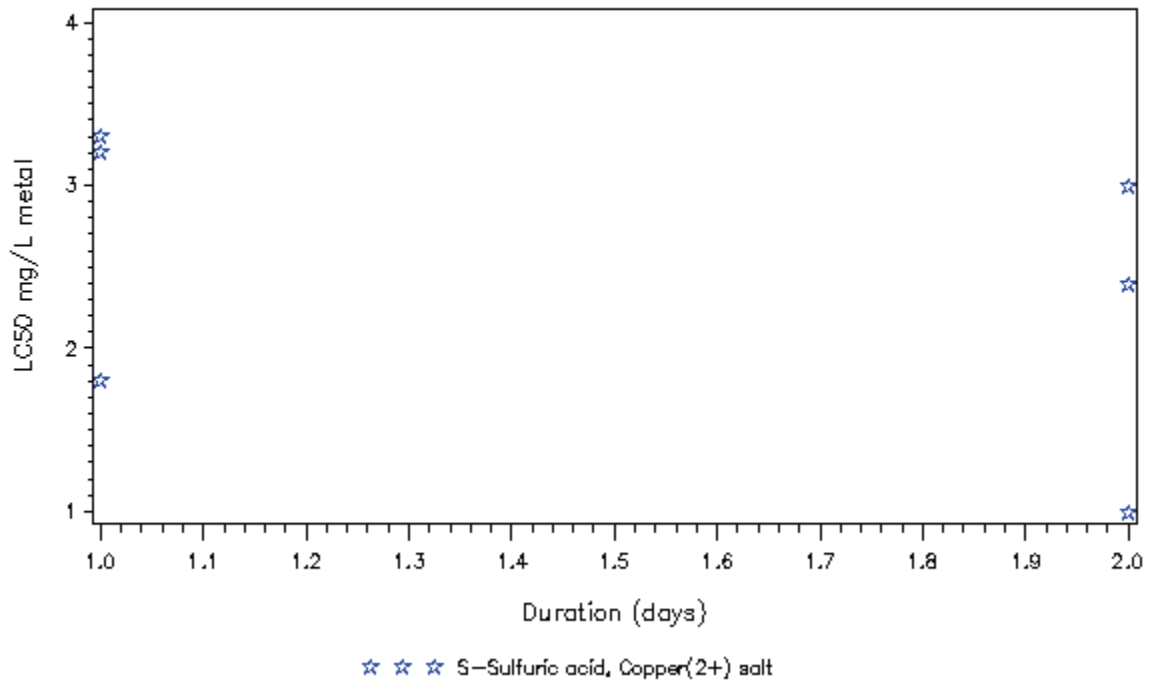


S – Static Test, F – Flowthrough Test, R –Renewal Test

Amnicola exposed to Copper at T>15C in soft water

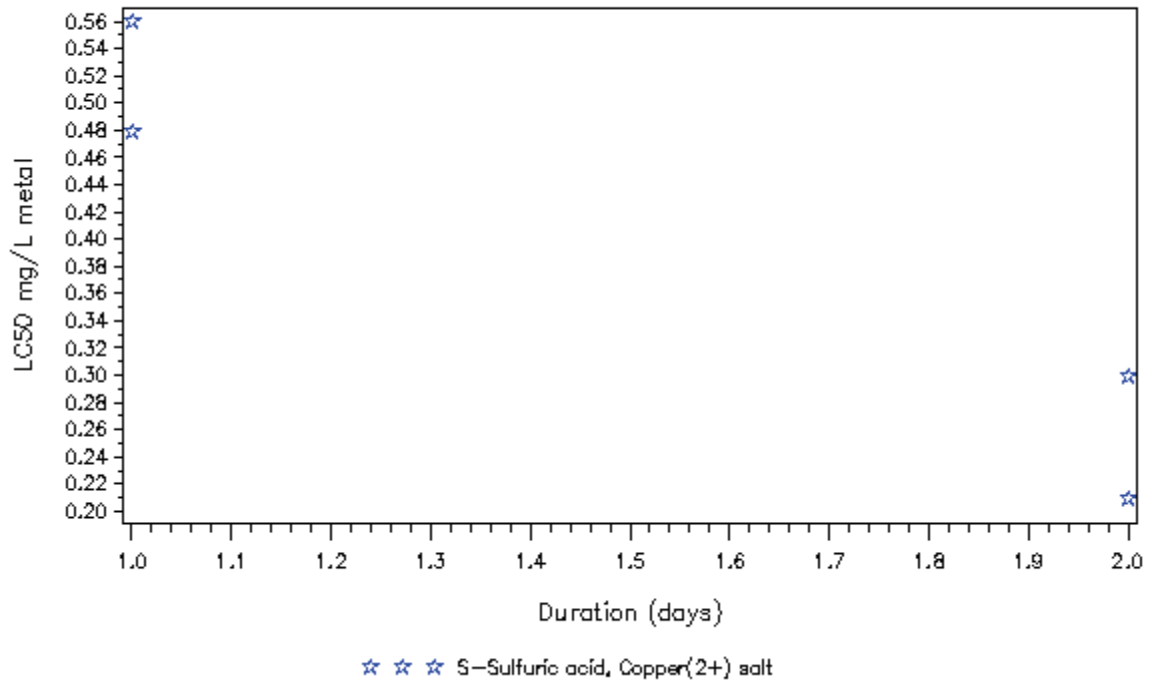


Anculosa exposed to Copper at T<=15C in soft water

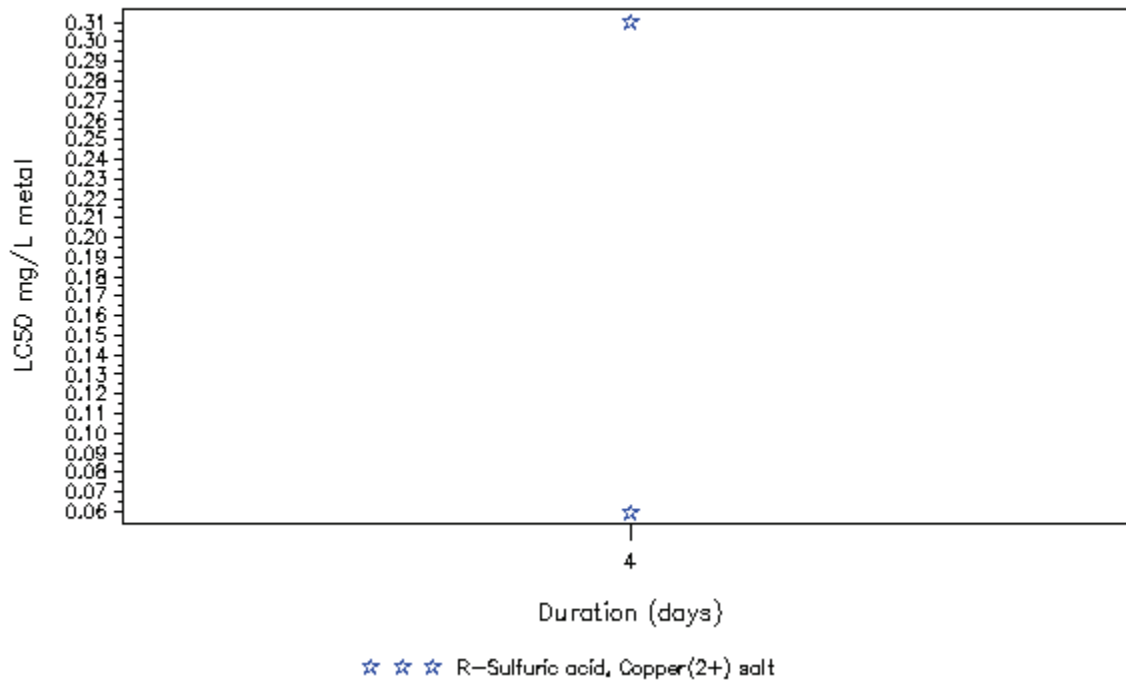


S – Static Test, F – Flowthrough Test, R –Renewal Test

Anculosa exposed to Copper at T>15C in soft water

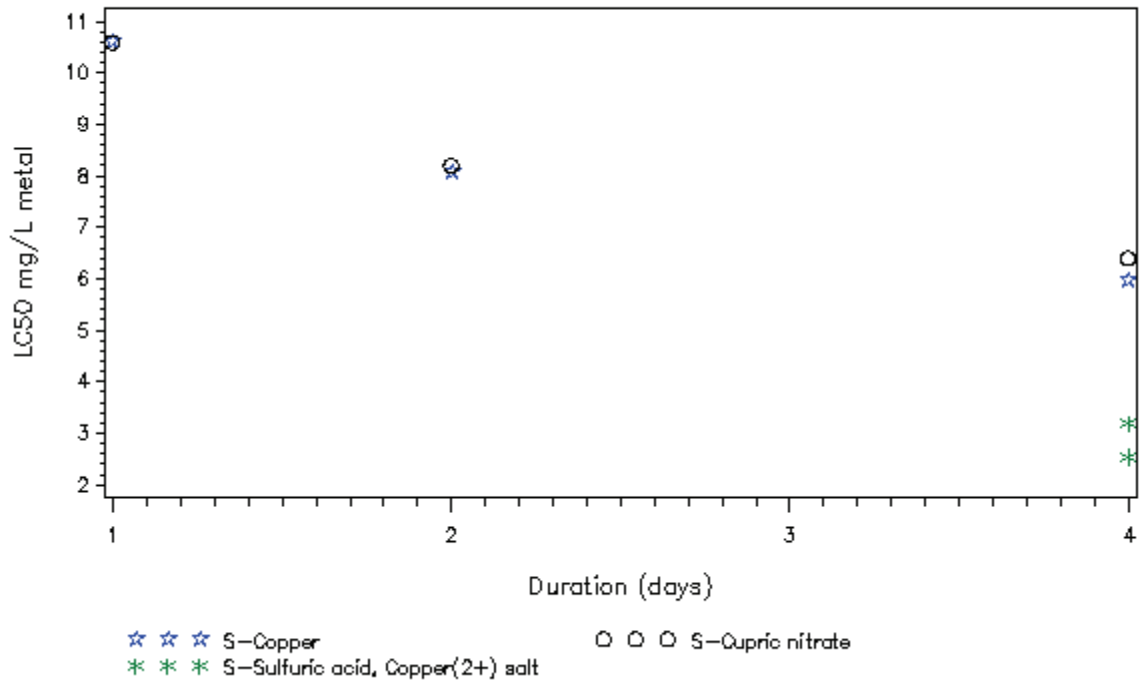


Anguilla japonica exposed to Copper at T>15C in soft water

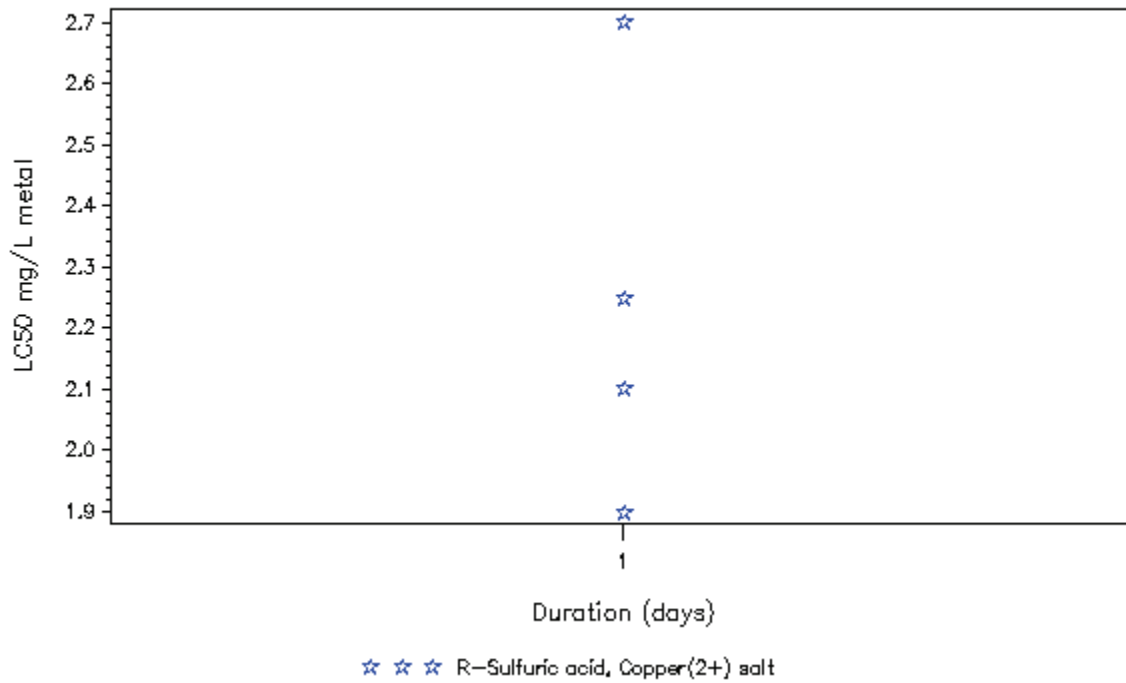


S – Static Test, F – Flowthrough Test, R –Renewal Test

Anguilla rostrata exposed to Copper at T>15C in soft water

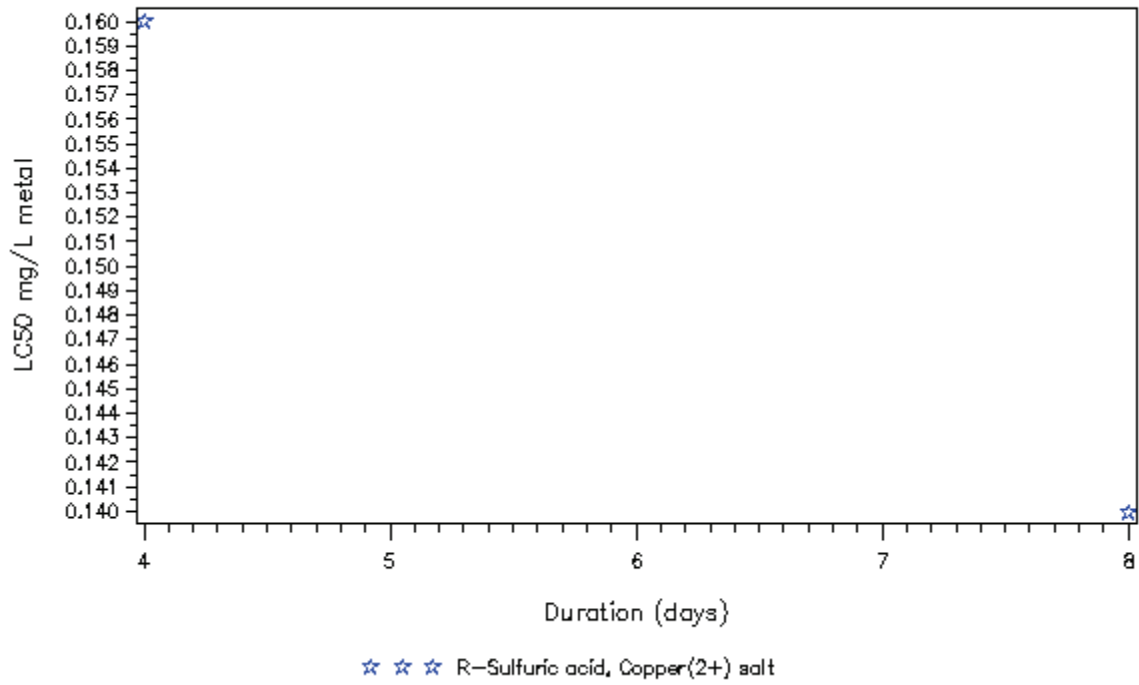


Barbus arulius exposed to Copper at T>15C in moderate water

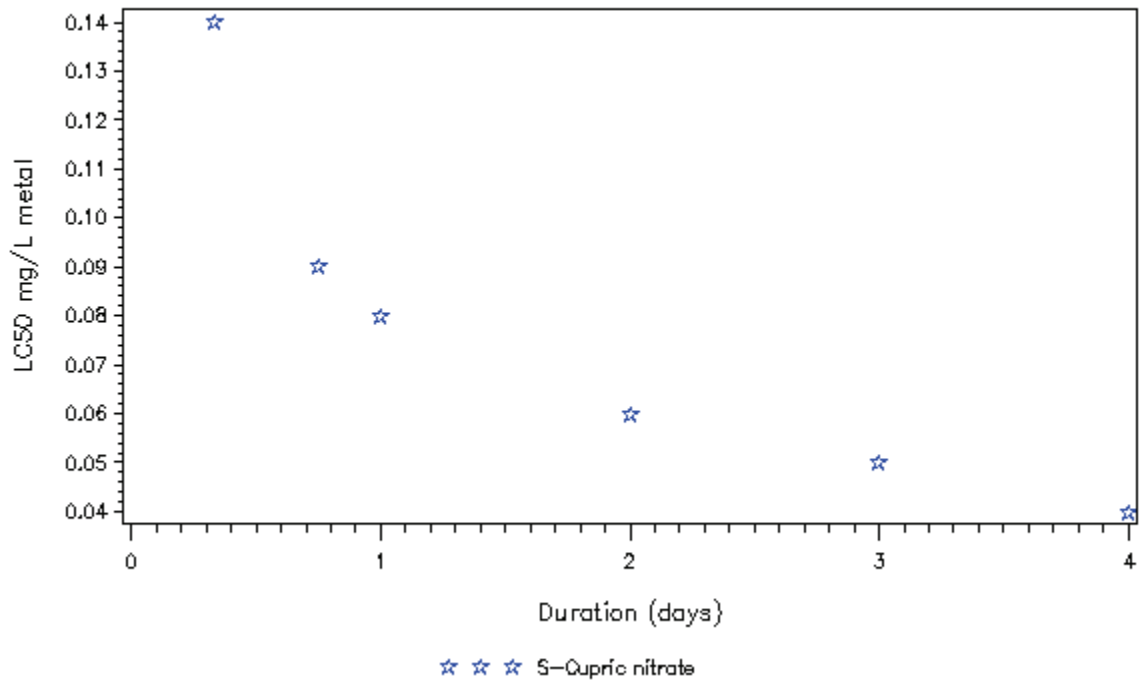


S – Static Test, F – Flowthrough Test, R –Renewal Test

Bidyanus bidyanus exposed to Copper at T>15C in soft water

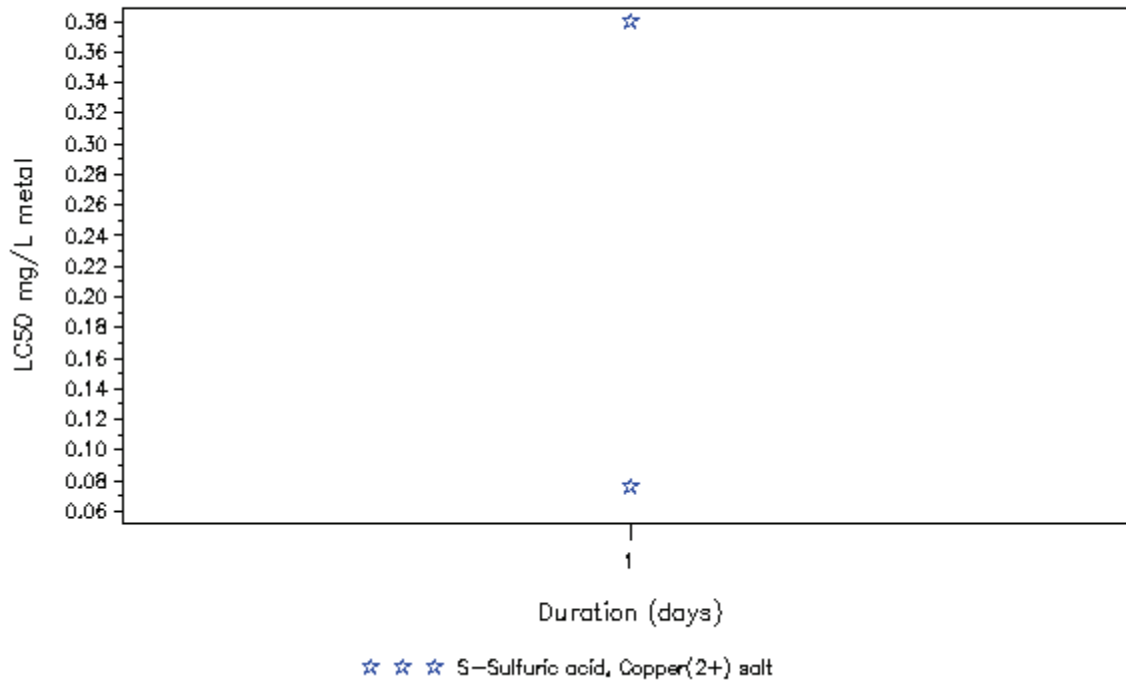


Biomphalaria glabrata exposed to Copper at T>15C in moderate water

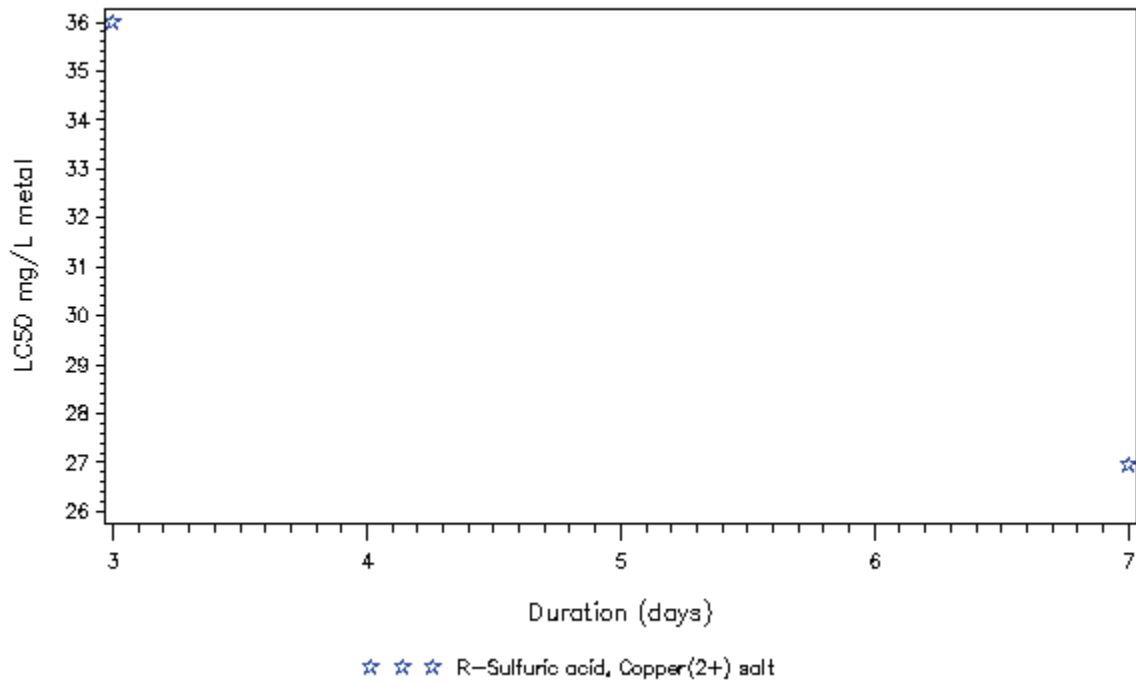


S – Static Test, F – Flowthrough Test, R –Renewal Test

Brachionus calyciflorus exposed to Copper at T>15C in moderate water

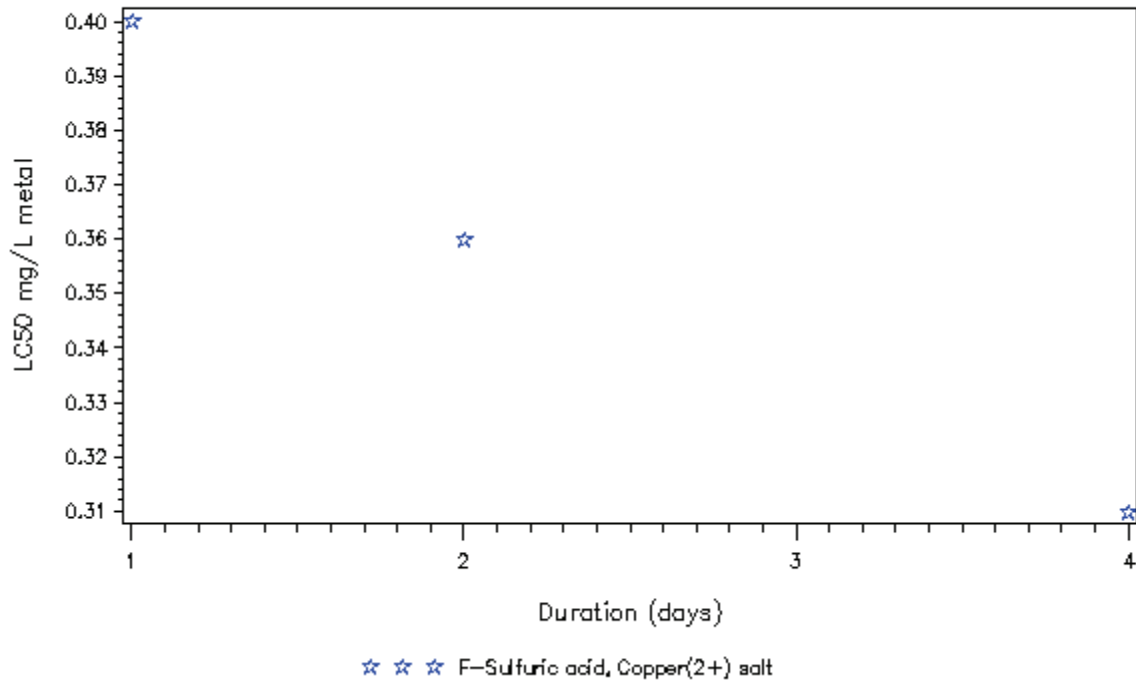


Bufo woodhousei fowleri exposed to Copper at T>15C in moderate water

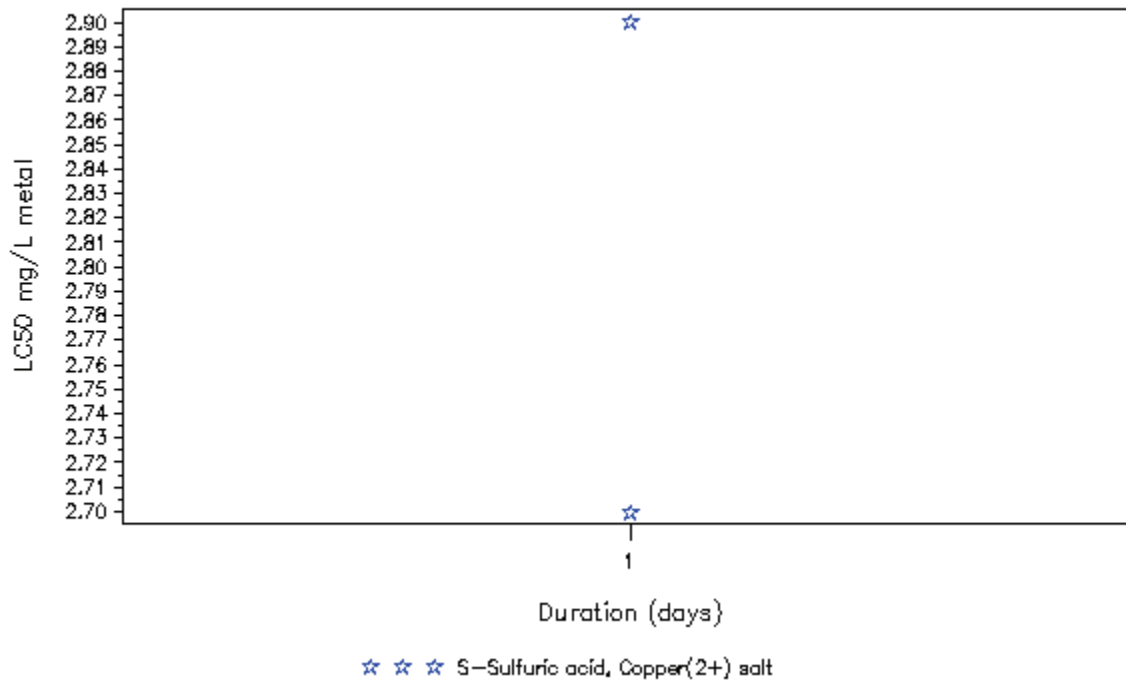


S – Static Test, F – Flowthrough Test, R –Renewal Test

Campostoma anomalum exposed to Copper at T>15C in very hard water

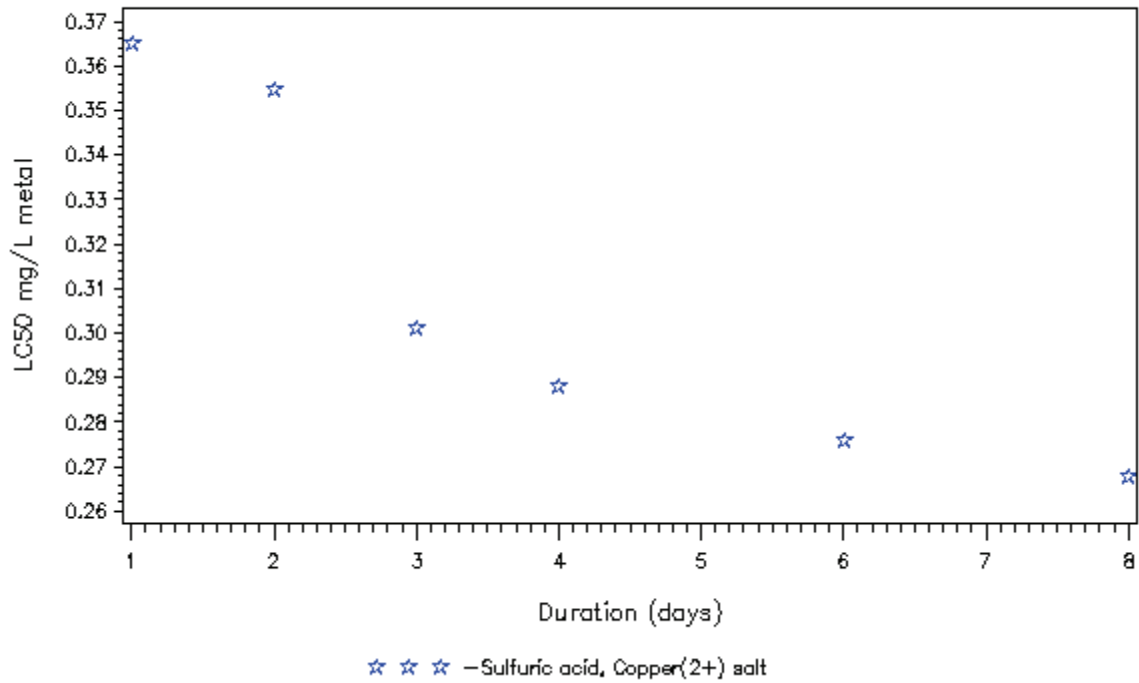


Carassius auratus exposed to Copper at T<=15C in soft water

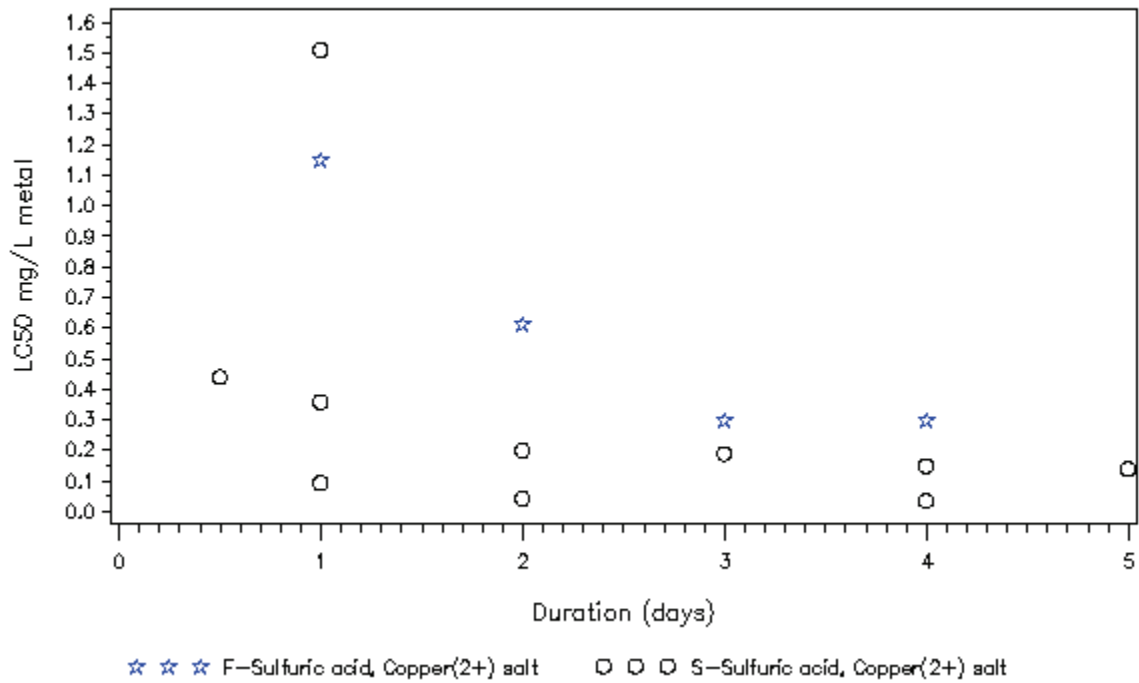


S – Static Test, F – Flowthrough Test, R –Renewal Test

Carassius auratus exposed to Copper at T>15C in moderate water

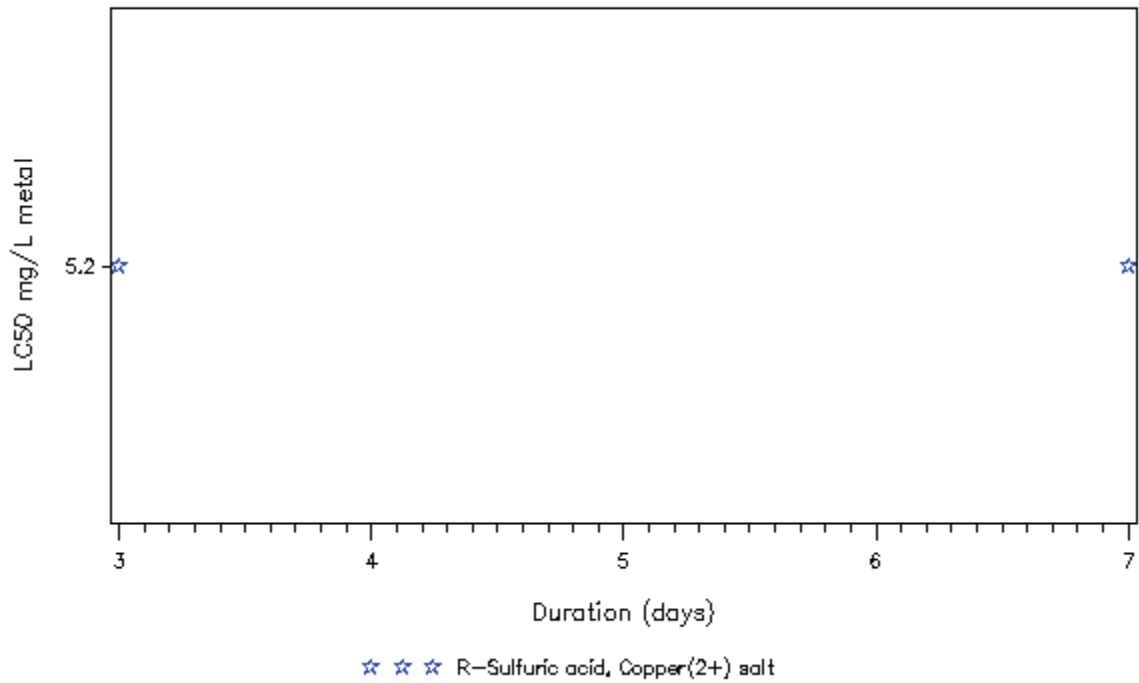


Carassius auratus exposed to Copper at T>15C in soft water

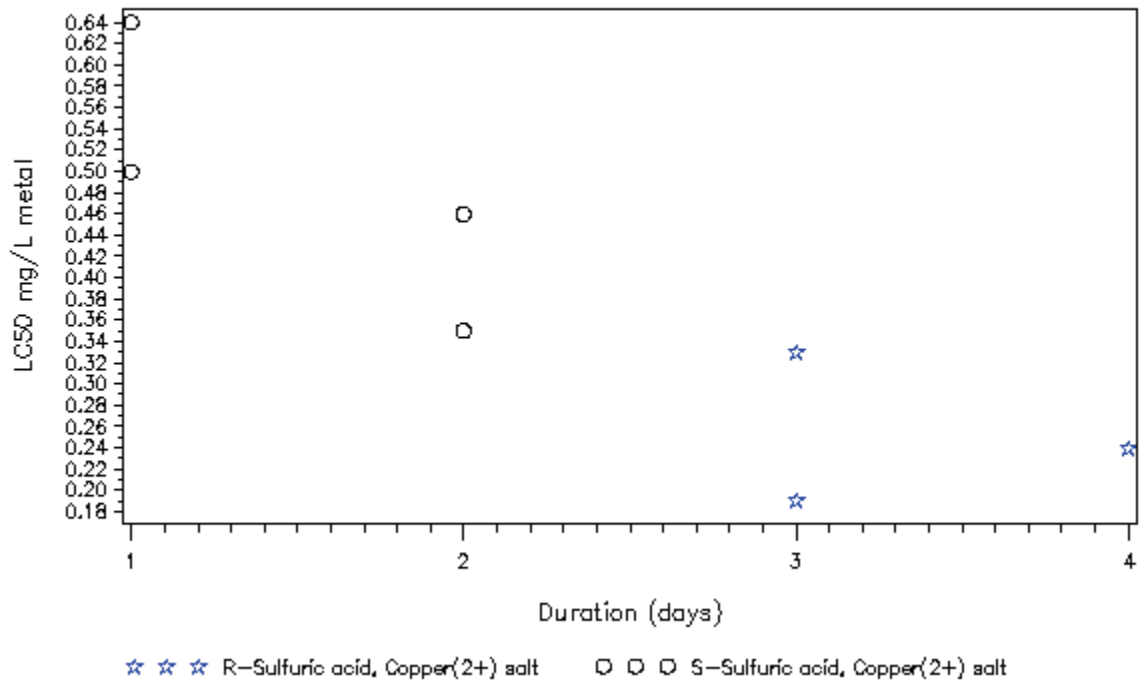


S – Static Test, F – Flowthrough Test, R –Renewal Test

Carassius auratus exposed to Copper at T>15C in very hard water

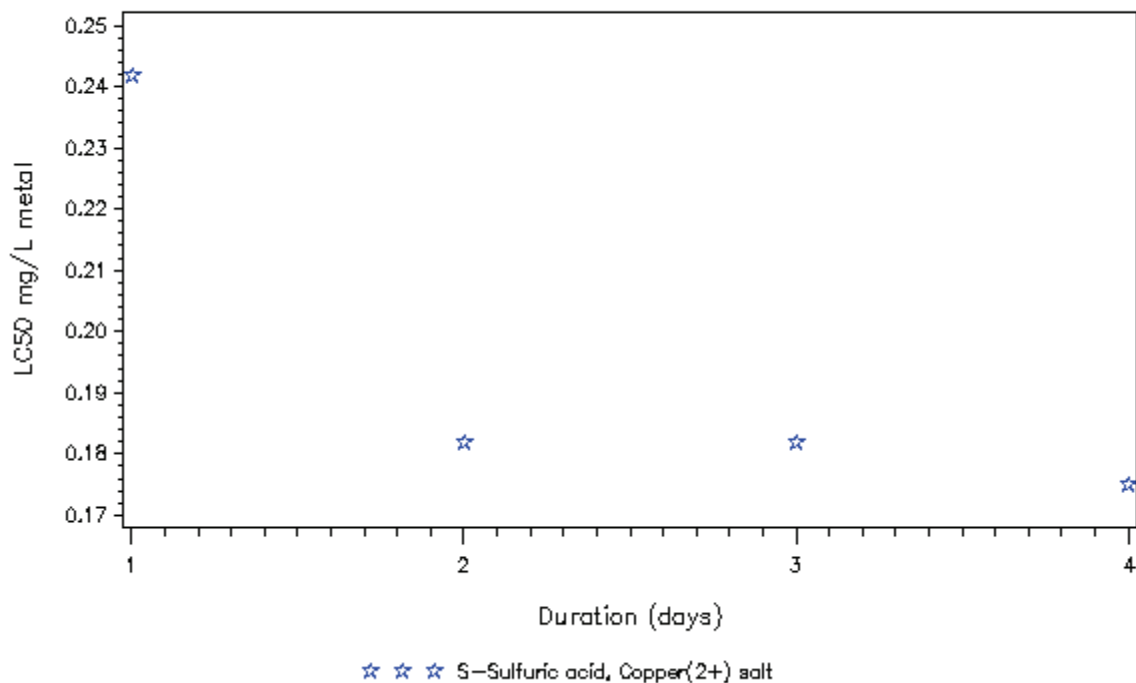


Carassius auratus exposed to Copper at T>15C in very soft water

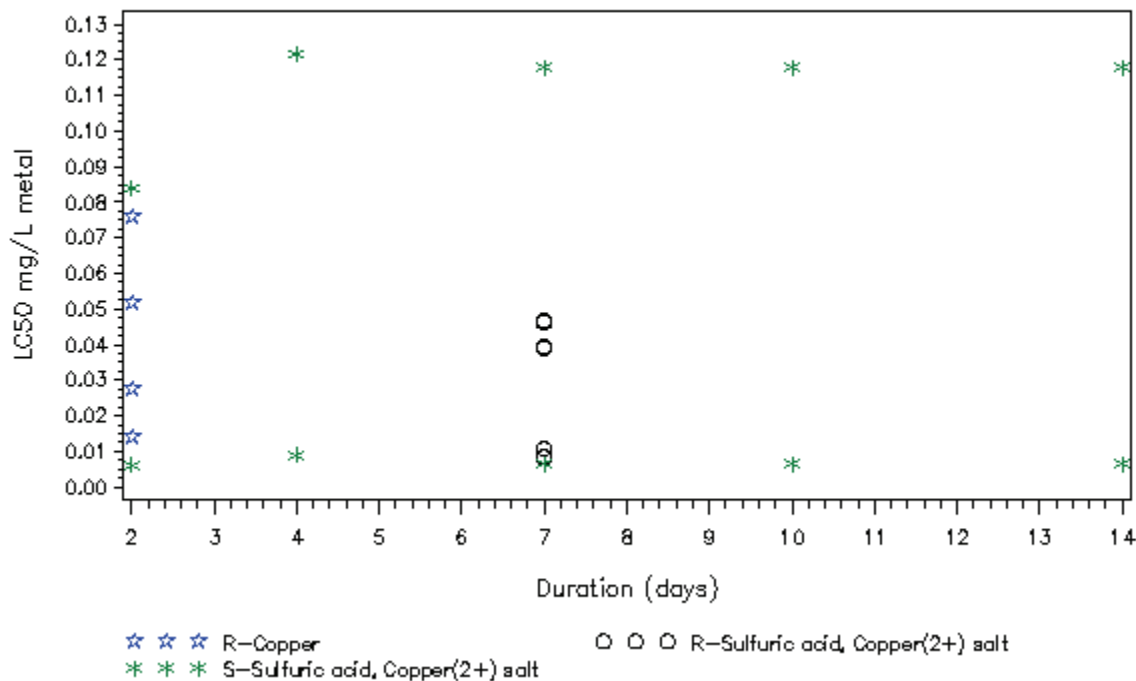


S – Static Test, F – Flowthrough Test, R –Renewal Test

Catostomus latipinnis exposed to Copper at T>15C in hard water

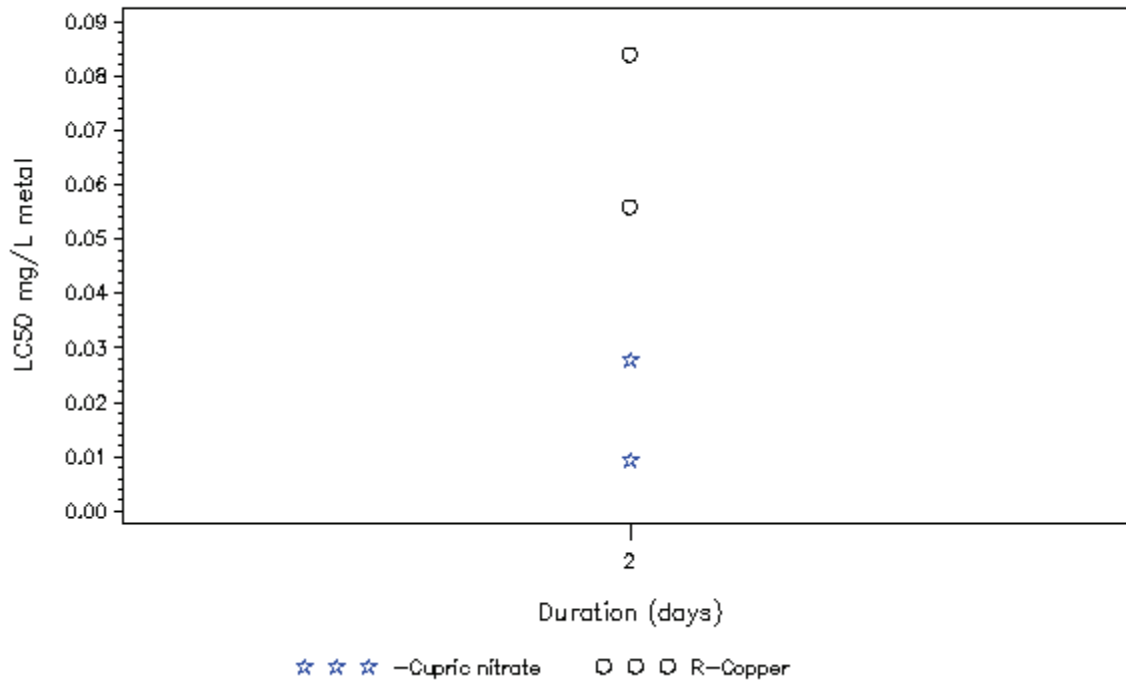


Ceriodaphnia dubia exposed to Copper at T>15C in moderate water

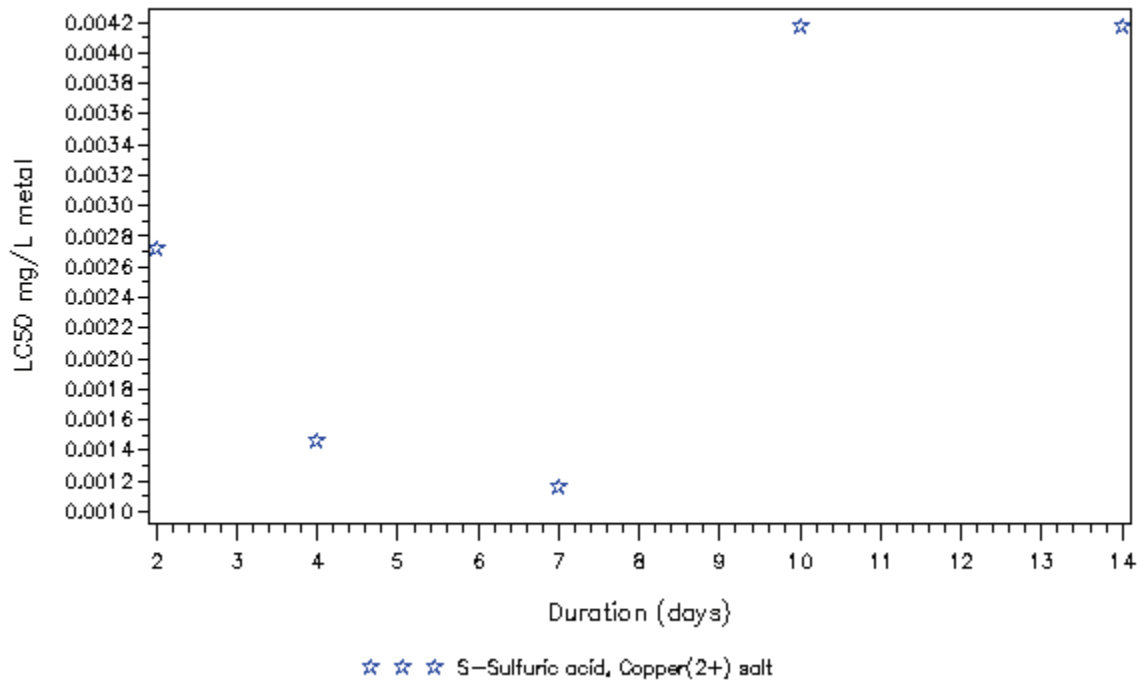


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ceriodaphnia dubia exposed to Copper at T>15C in very hard water

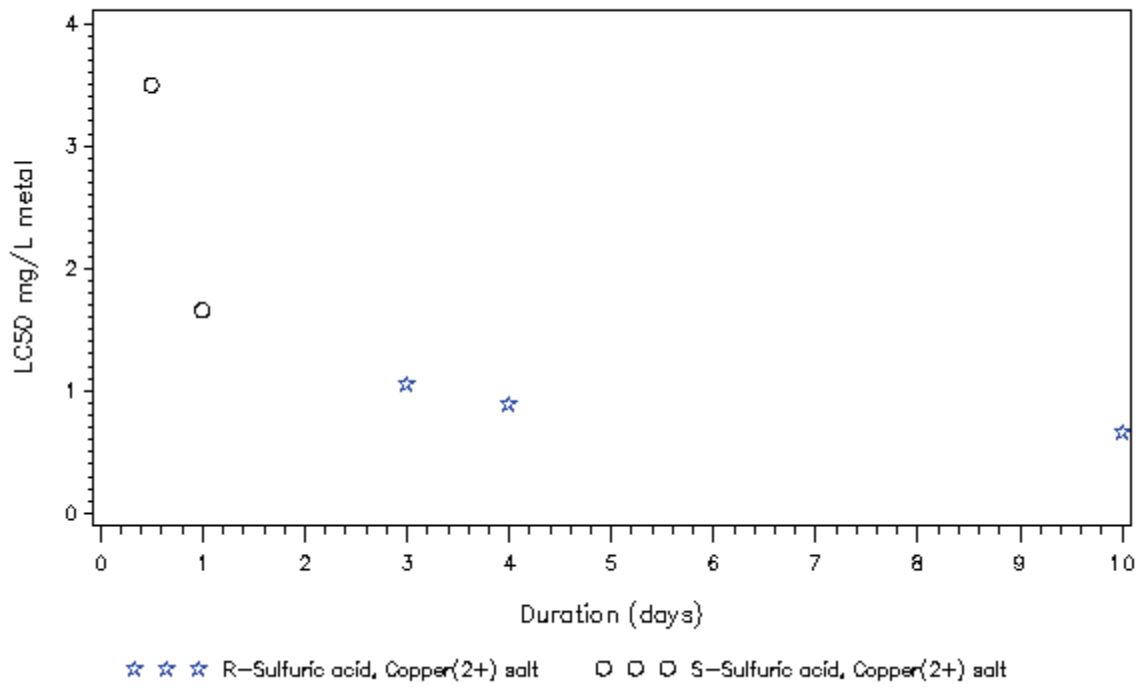


Ceriodaphnia dubia exposed to Copper at T>15C in very soft water

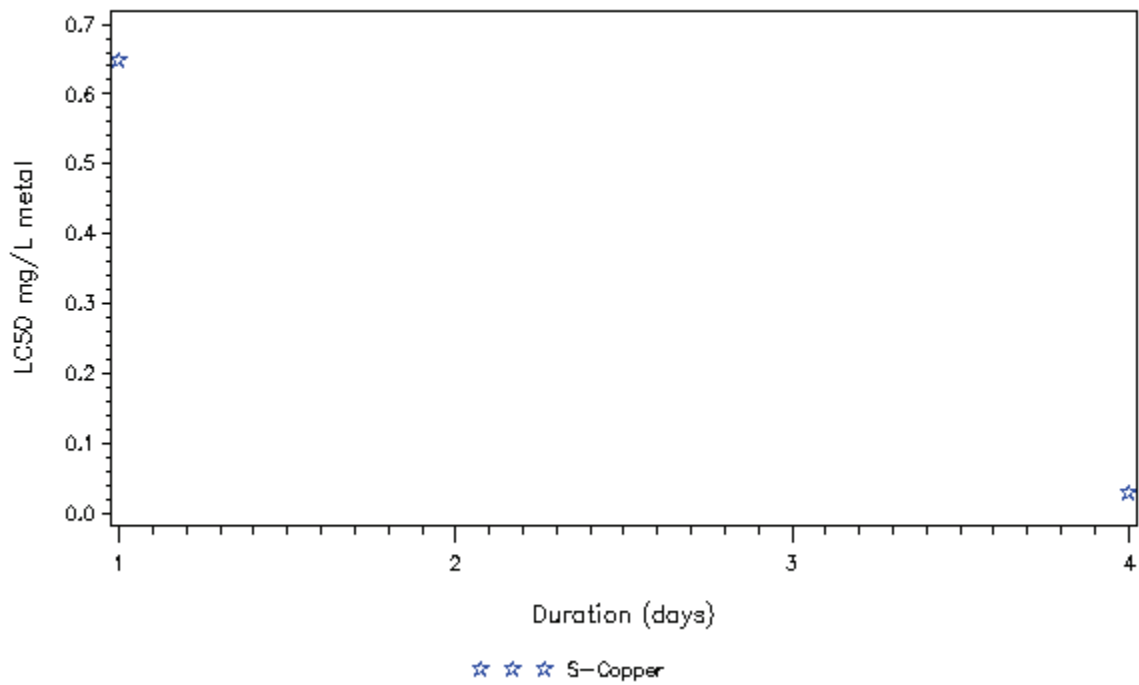


S – Static Test, F – Flowthrough Test, R –Renewal Test

Channa marulius exposed to Copper at T>15C in very hard water

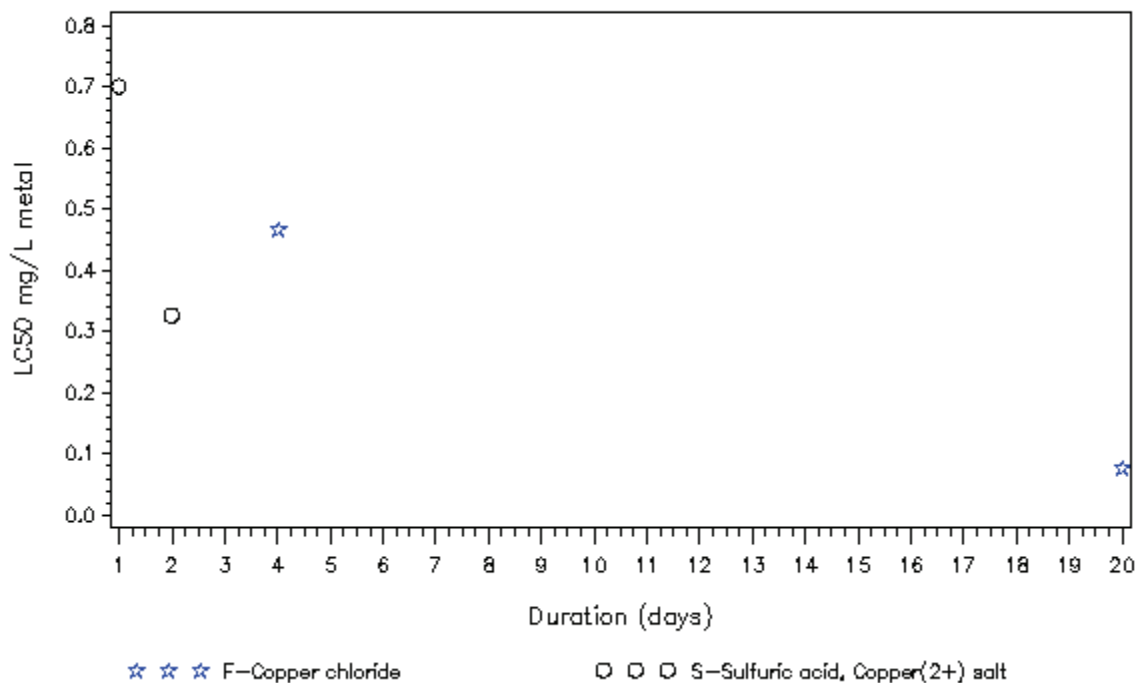


Chironomus exposed to Copper at T>15C in soft water

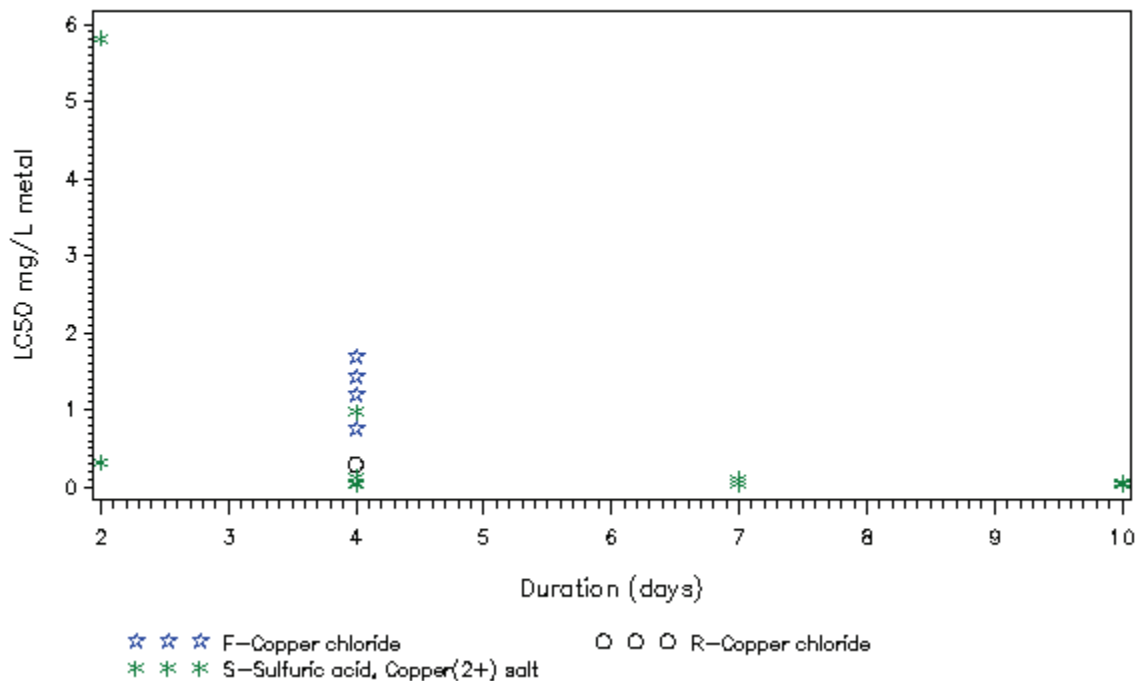


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus tentans exposed to Copper at T<=15C in soft water

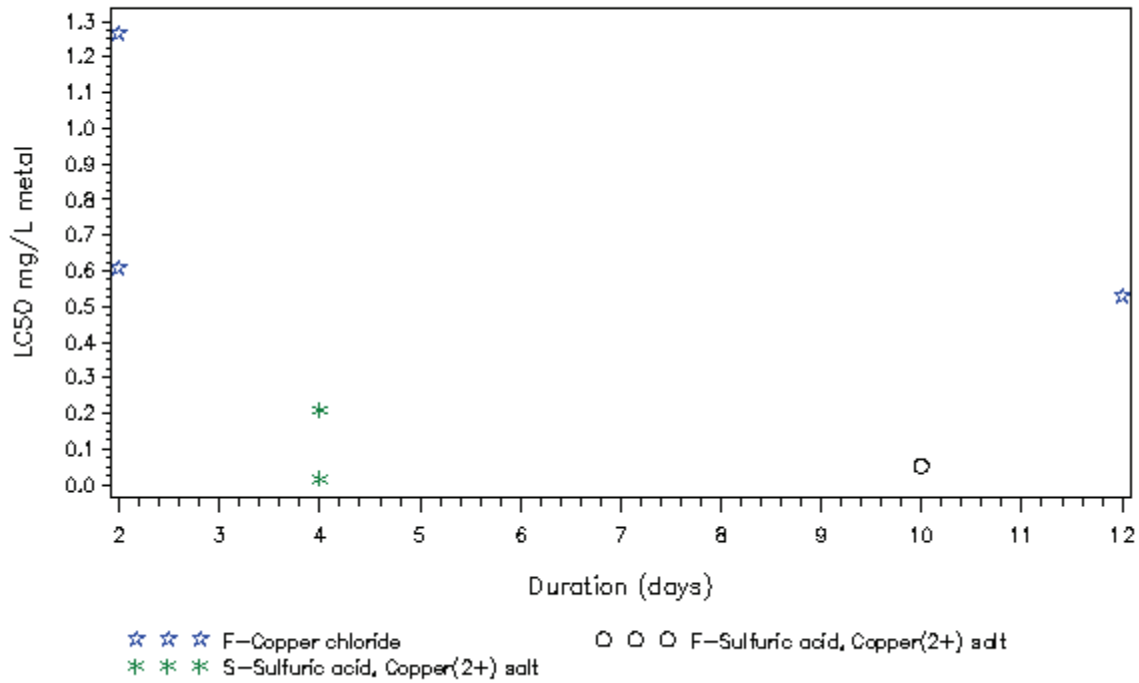


Chironomus tentans exposed to Copper at T>15C in moderate water

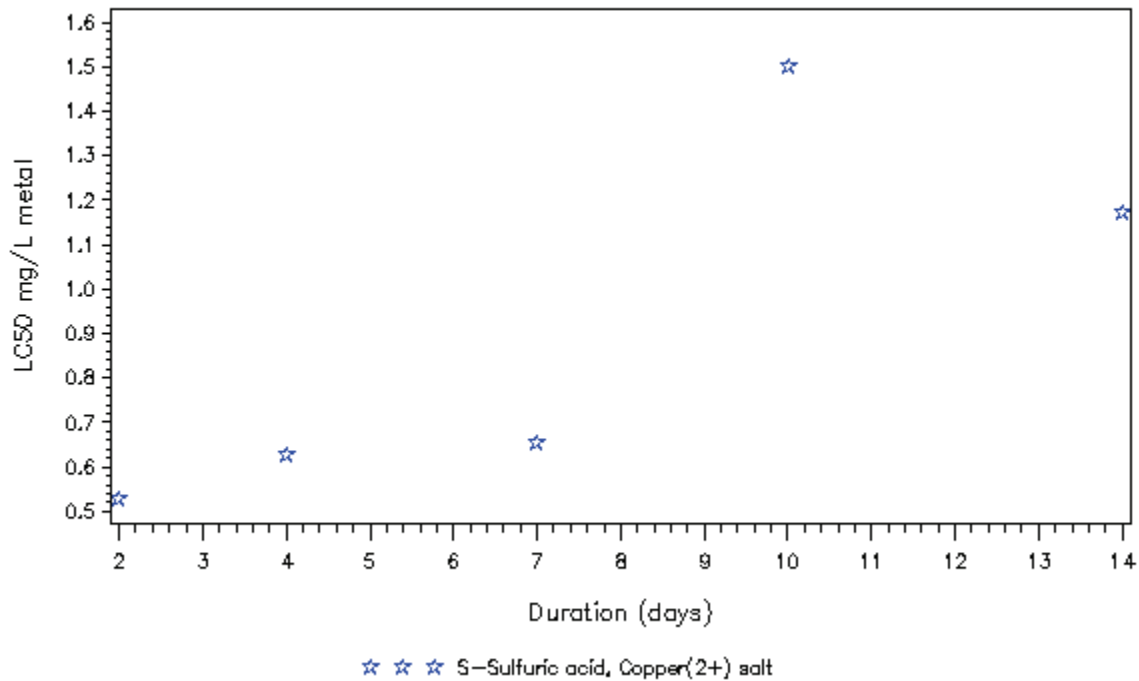


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus tentans exposed to Copper at T>15C in soft water

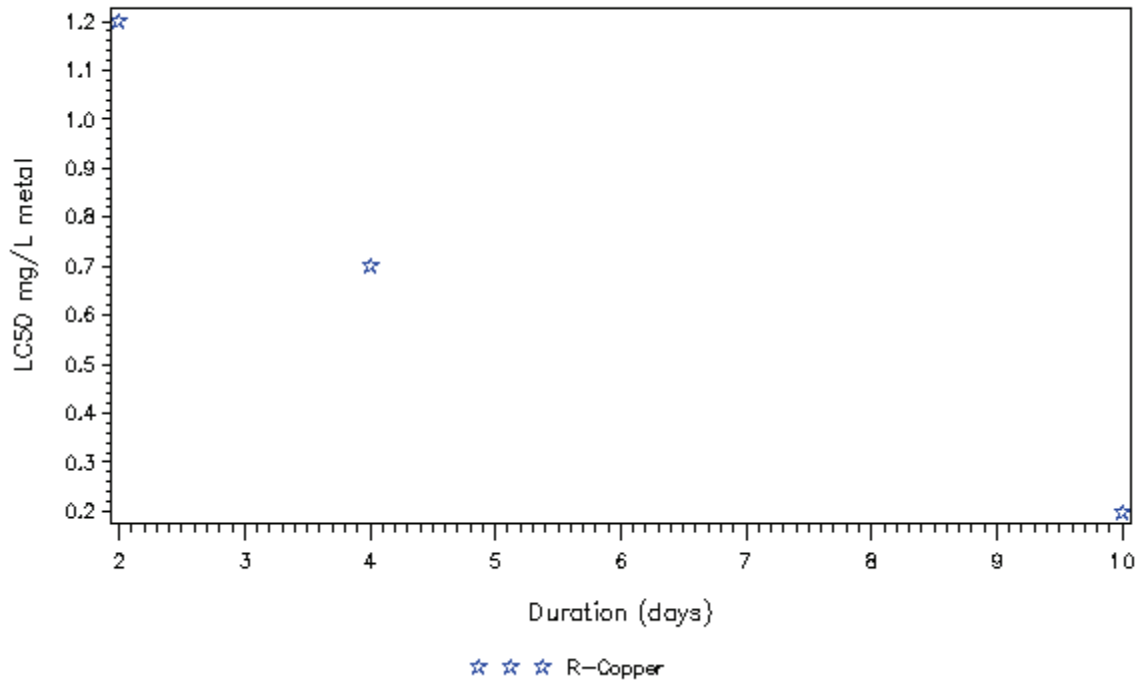


Chironomus tentans exposed to Copper at T>15C in very soft water

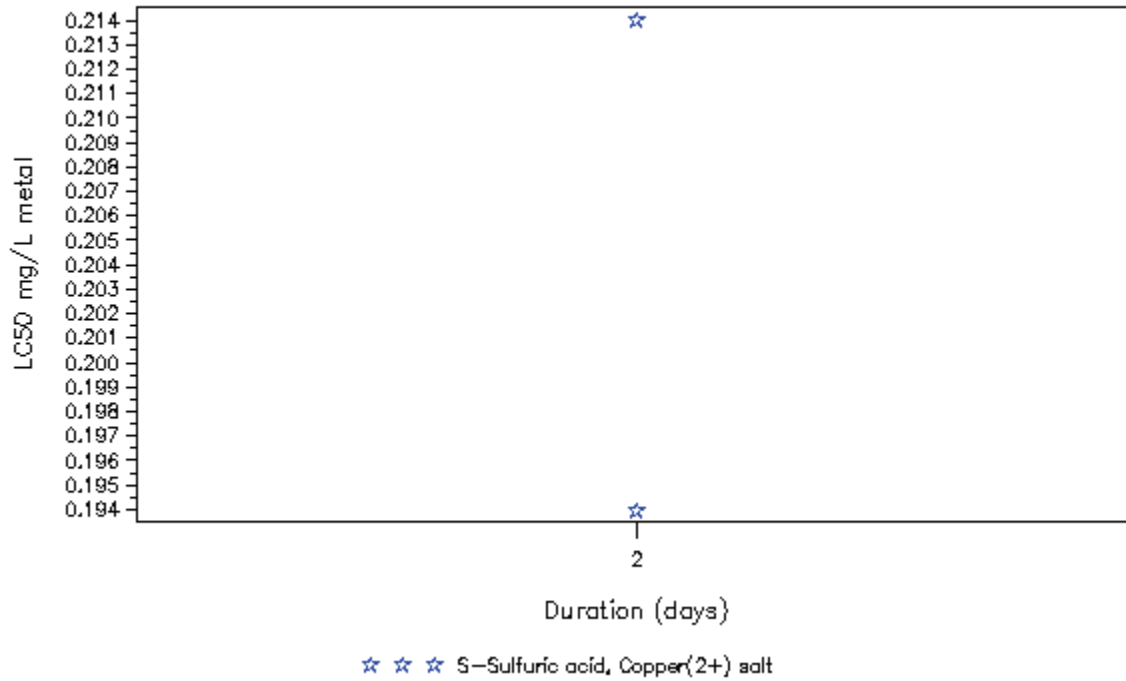


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus thummi exposed to Copper at T>15C in hard water

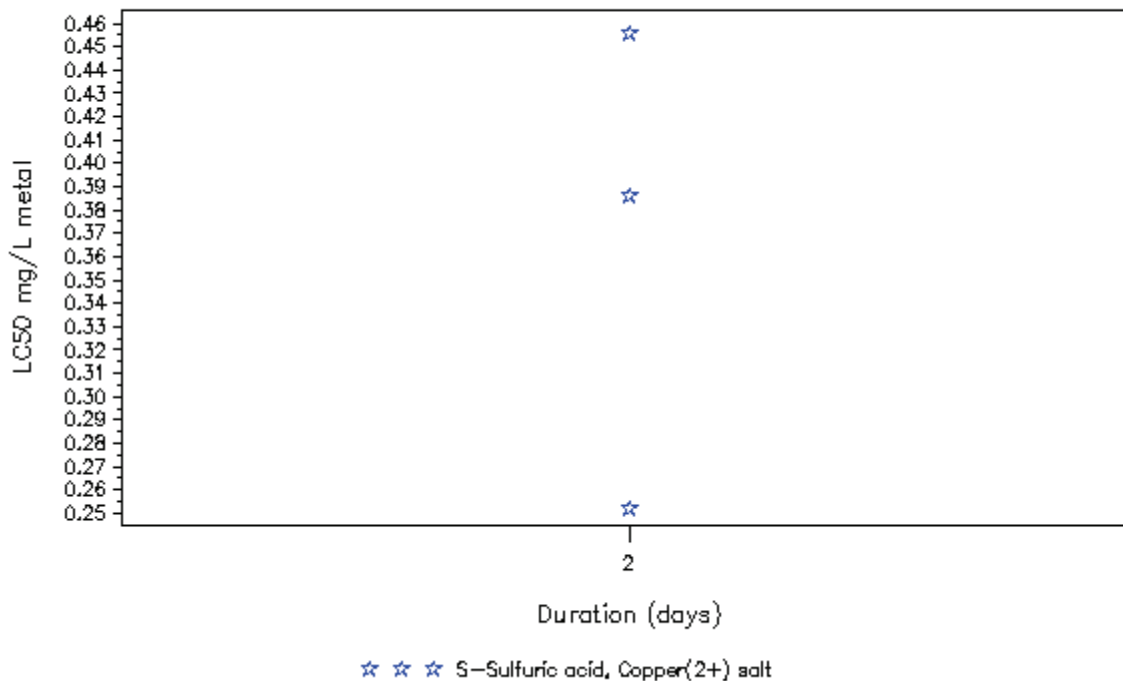


Chydorus sphaericus exposed to Copper at T>15C in moderate water

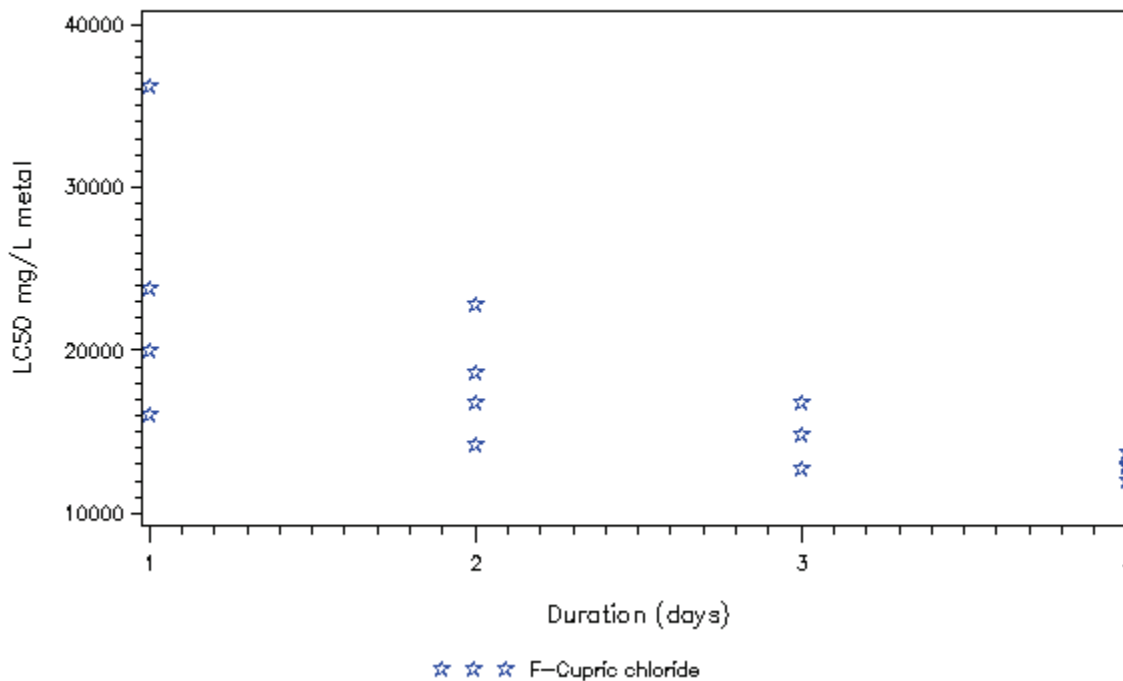


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chydorus sphaericus exposed to Copper at T>15C in very soft water

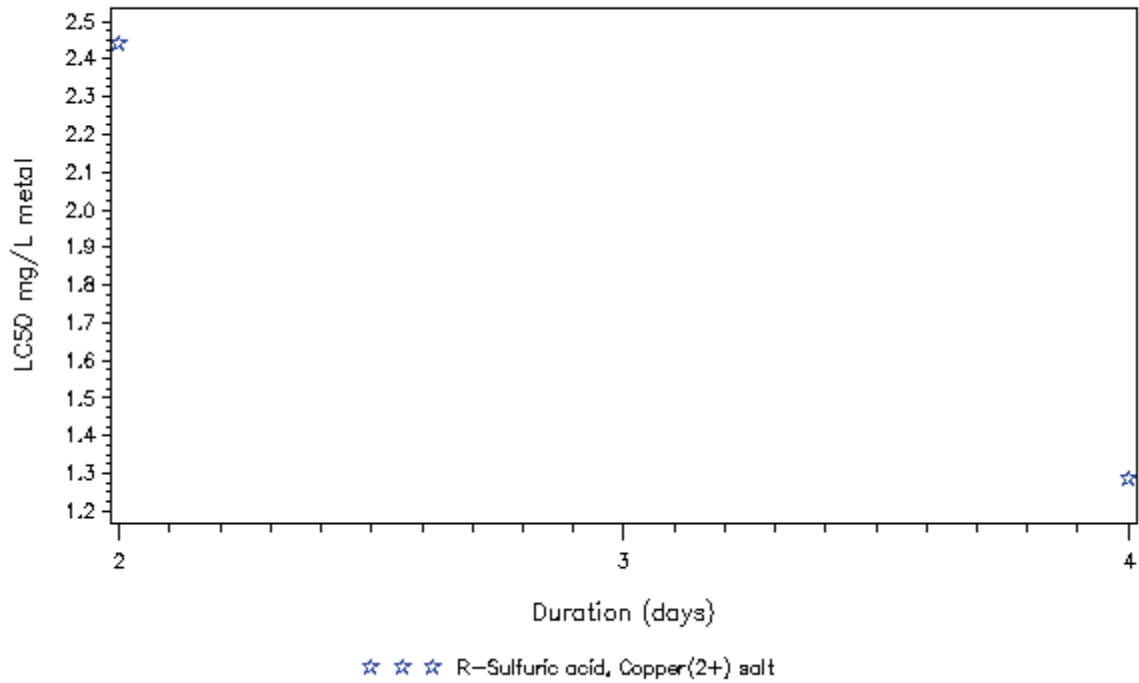


Clarias gariepinus exposed to Copper at T>15C in moderate water

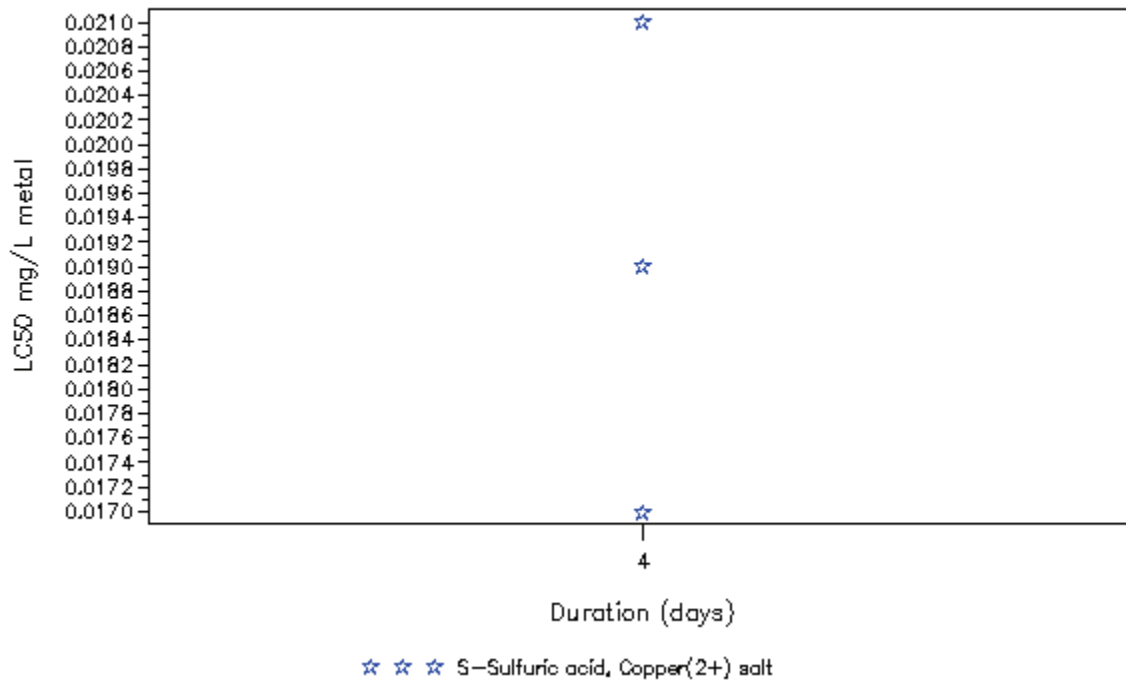


S – Static Test, F – Flowthrough Test, R –Renewal Test

Crangonyx pseudogracilis exposed to Copper at T<=15C in soft water

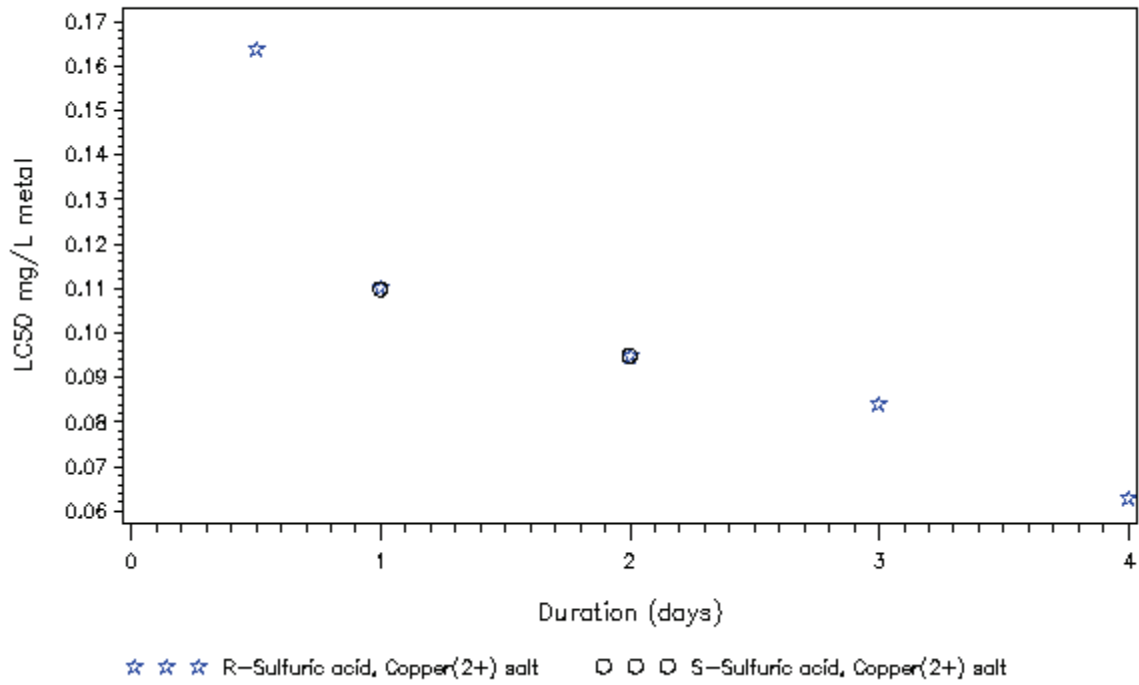


Craterecephalus stercusmuscaru exposed to Copper at T>15C in very soft water

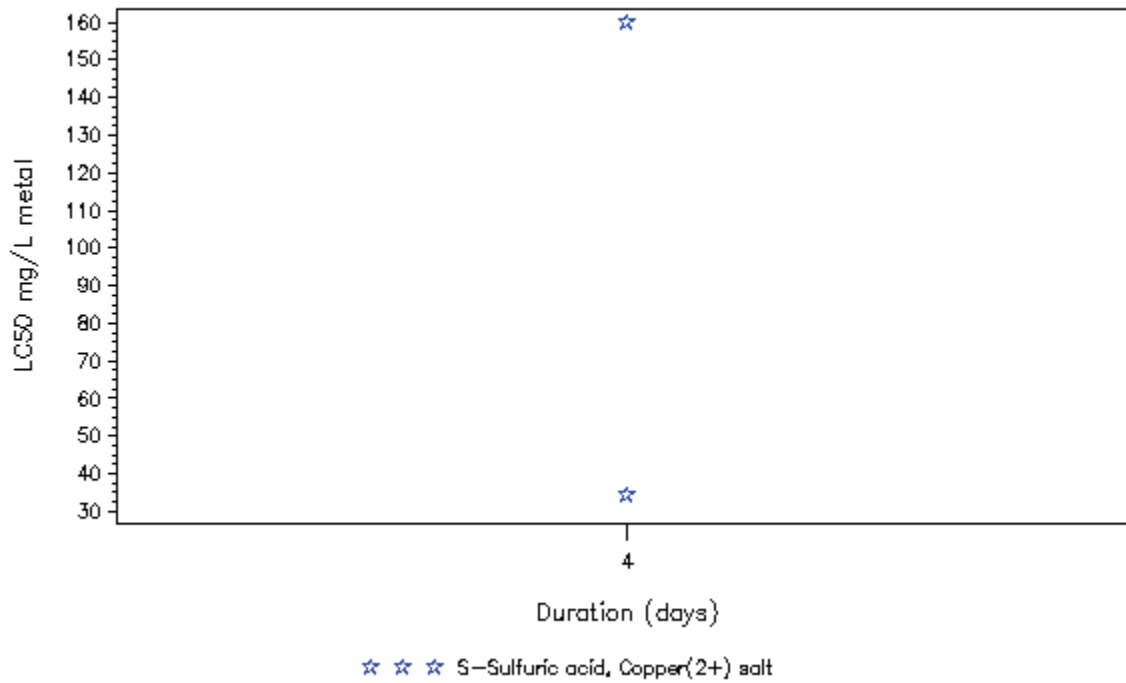


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Copper at T<=15C in soft water

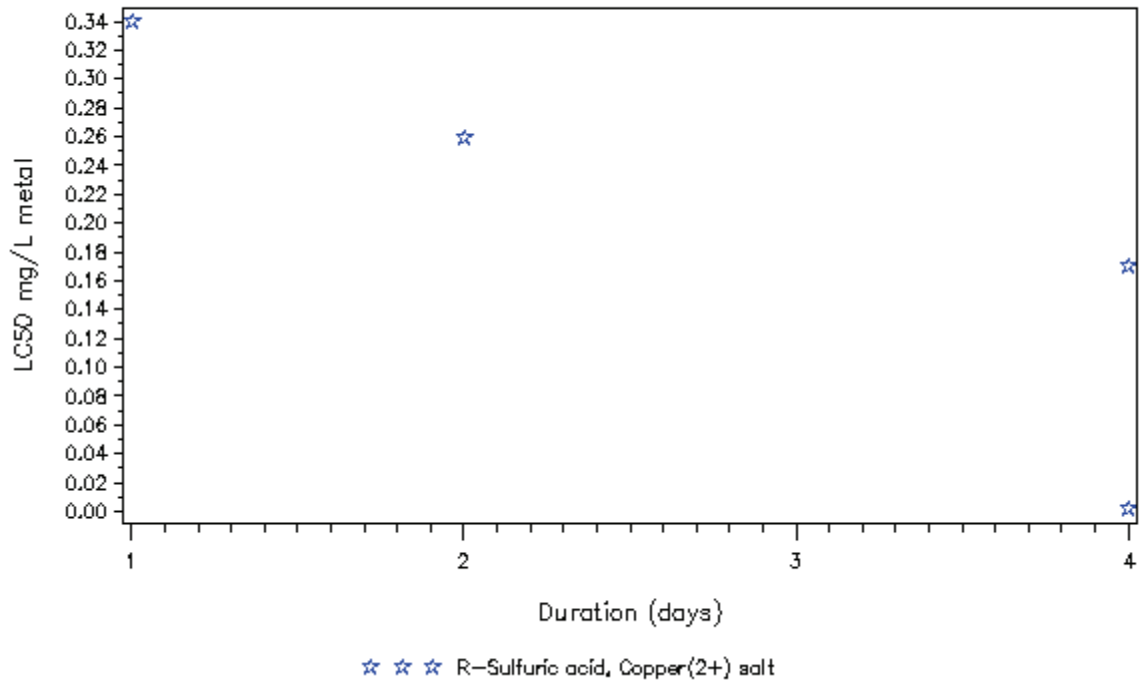


Cyprinus carpio exposed to Copper at T>15C in hard water

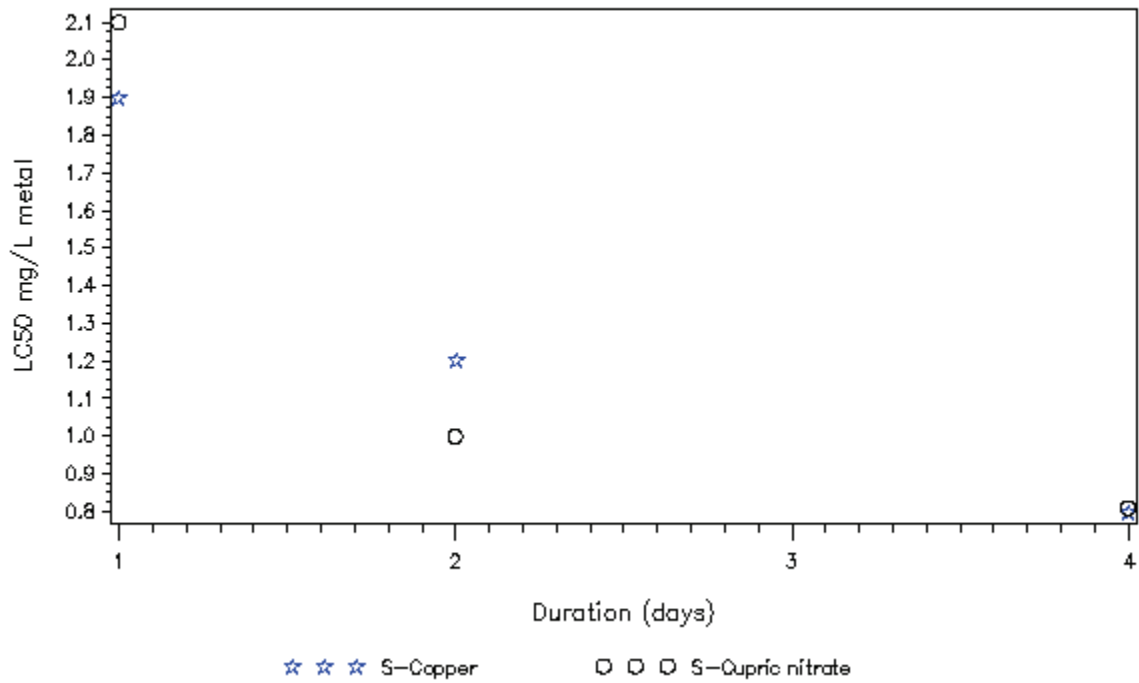


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Copper at T>15C in moderate water

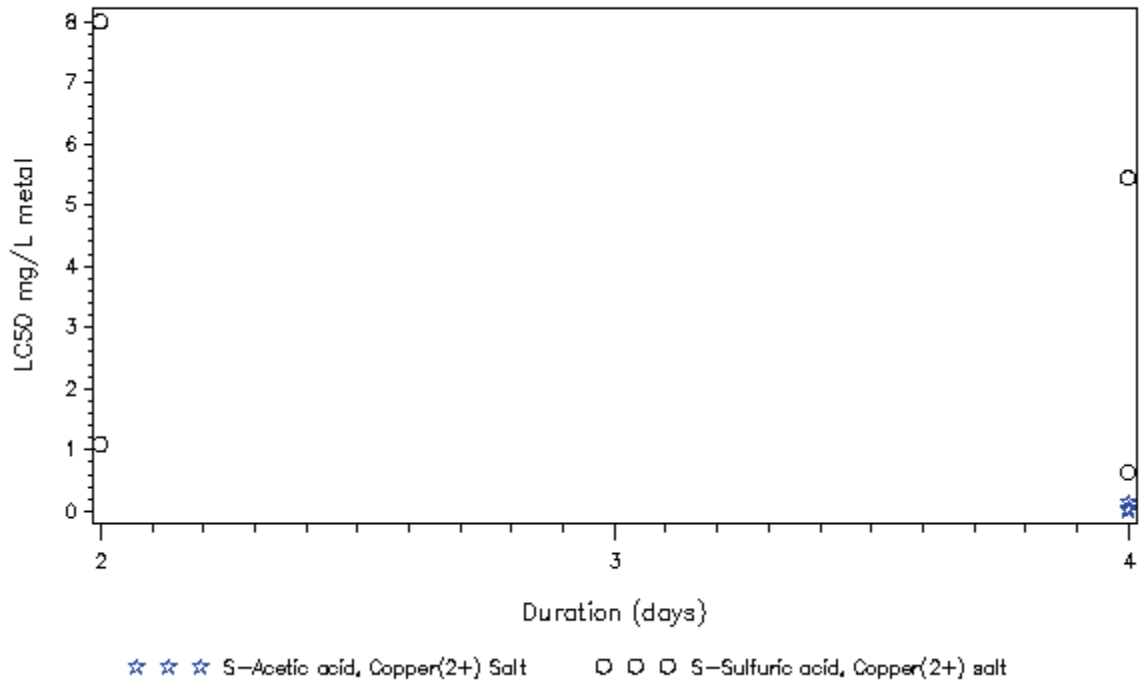


Cyprinus carpio exposed to Copper at T>15C in soft water

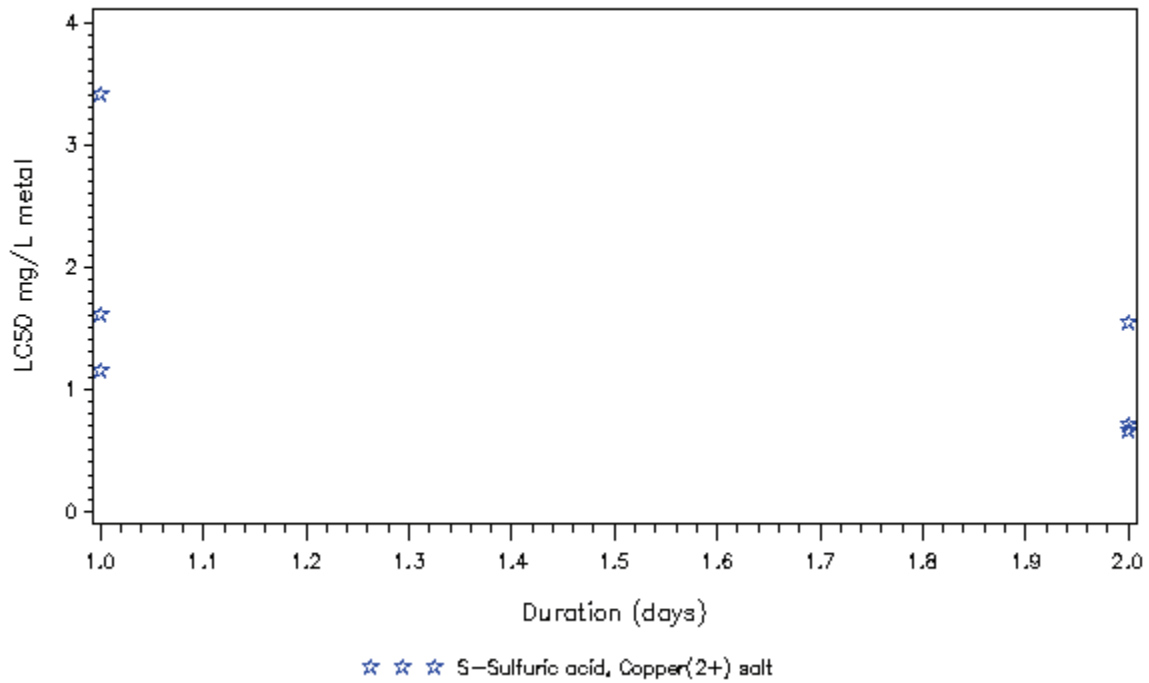


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Copper at T>15C in very hard water

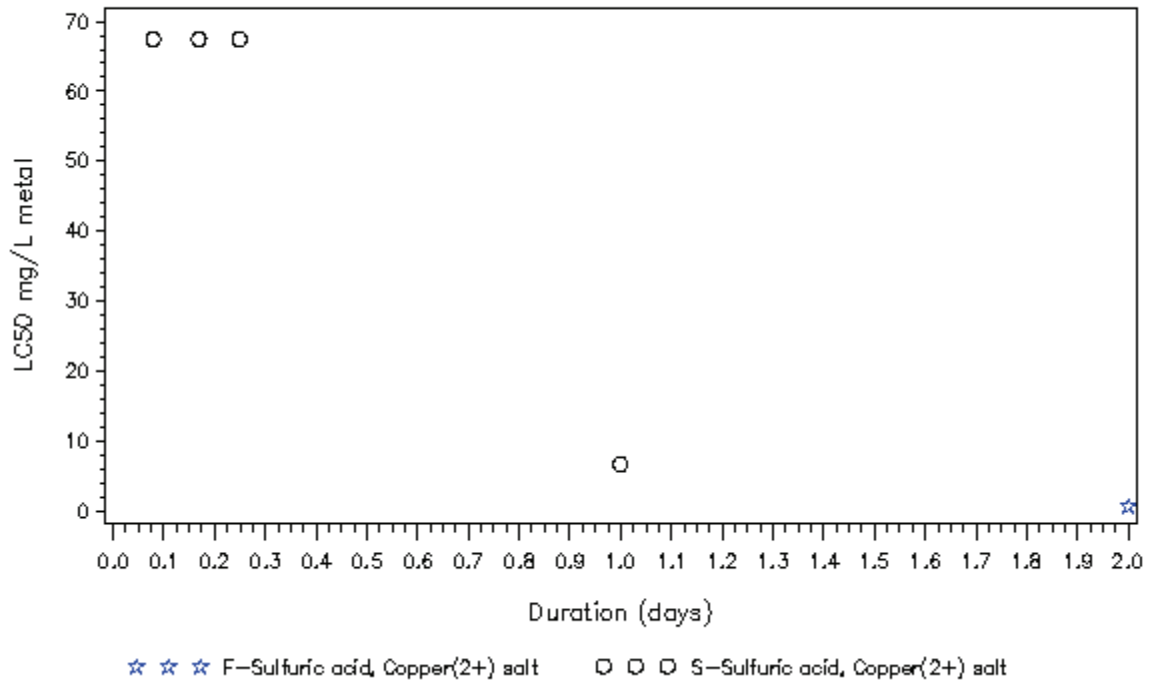


Cypris subglobosa exposed to Copper at T>15C in very hard water

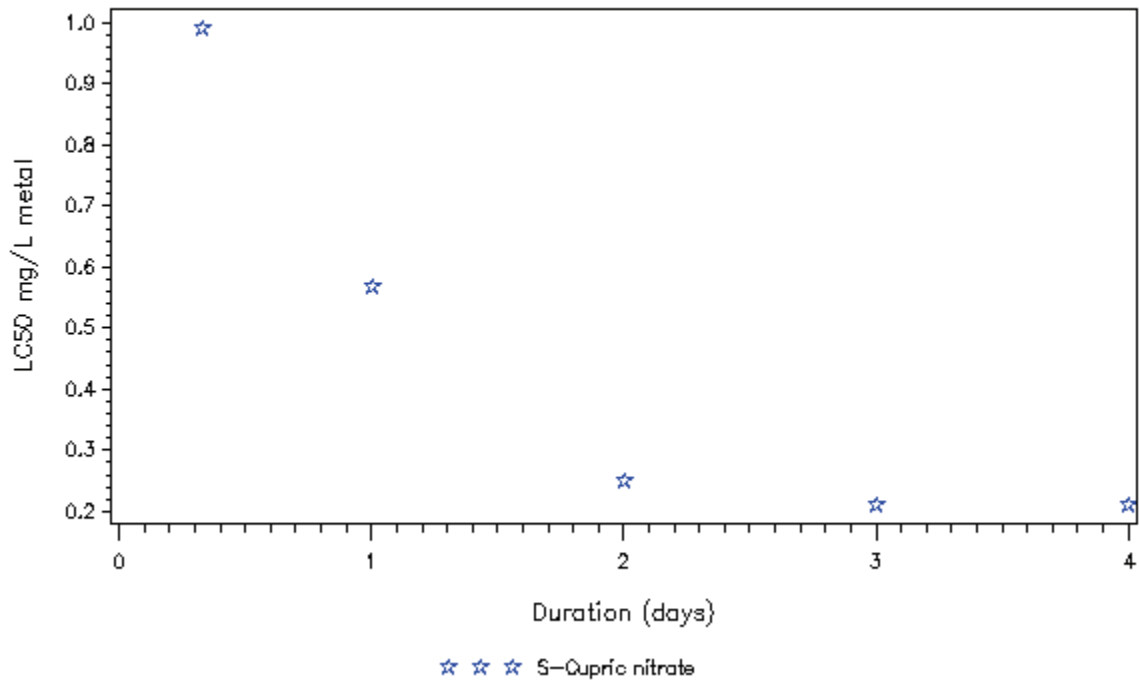


S – Static Test, F – Flowthrough Test, R –Renewal Test

Danio rerio exposed to Copper at T>15C in hard water

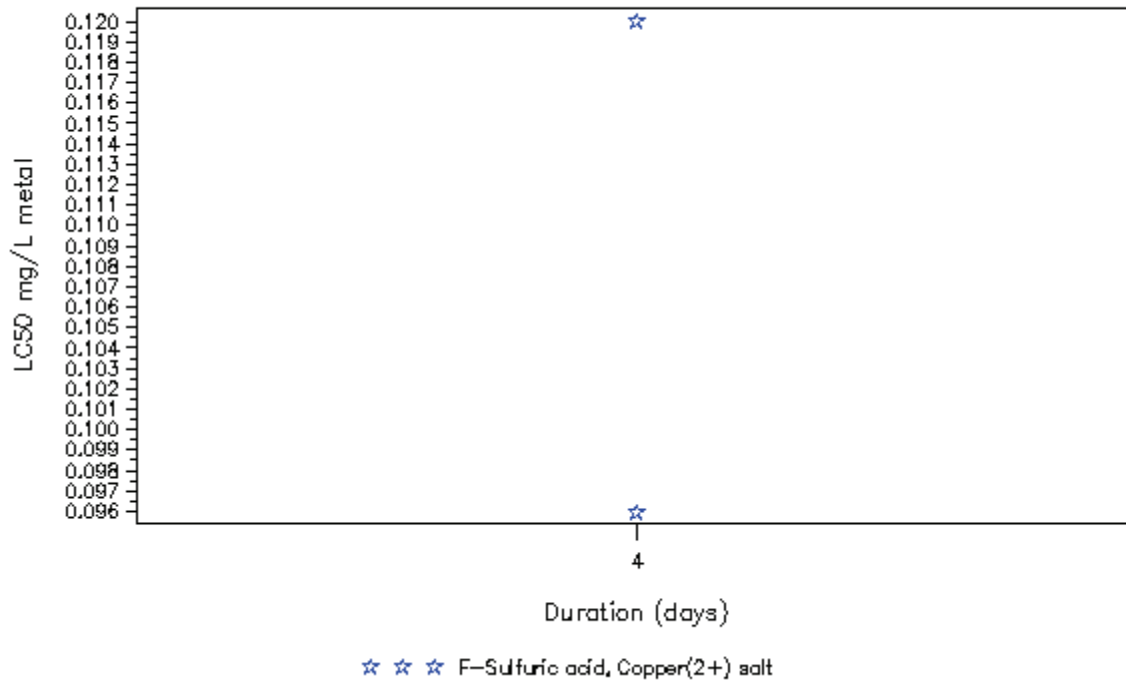


Danio rerio exposed to Copper at T>15C in moderate water

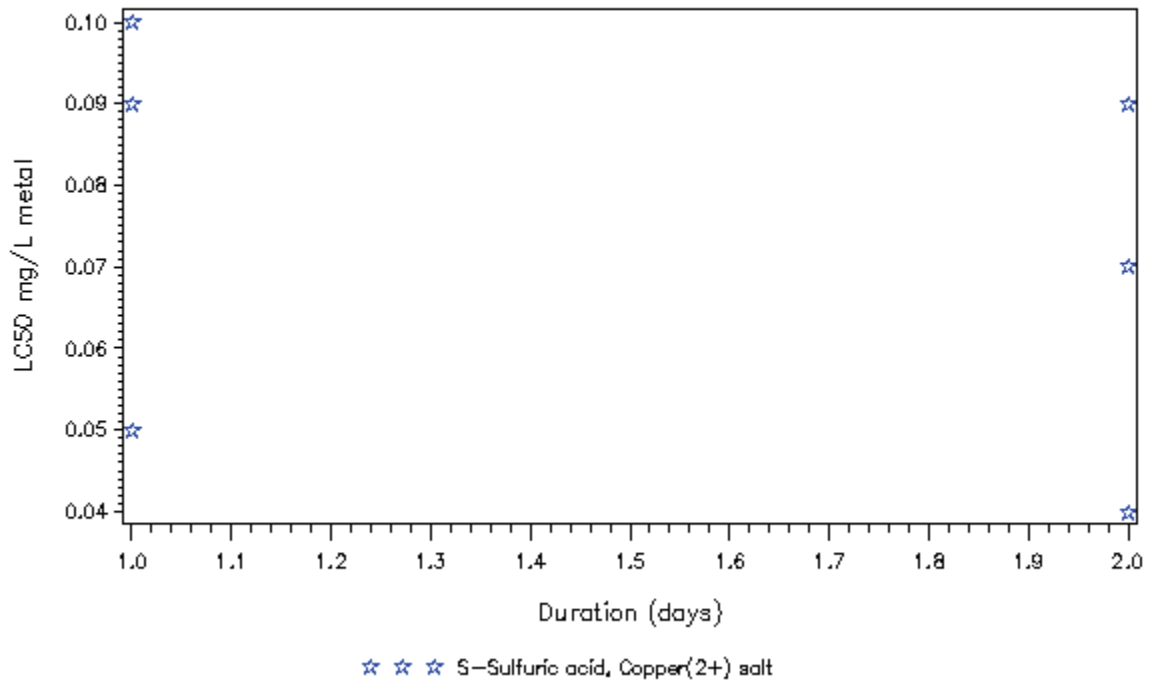


S – Static Test, F – Flowthrough Test, R –Renewal Test

Danio rerio exposed to Copper at T>15C in soft water

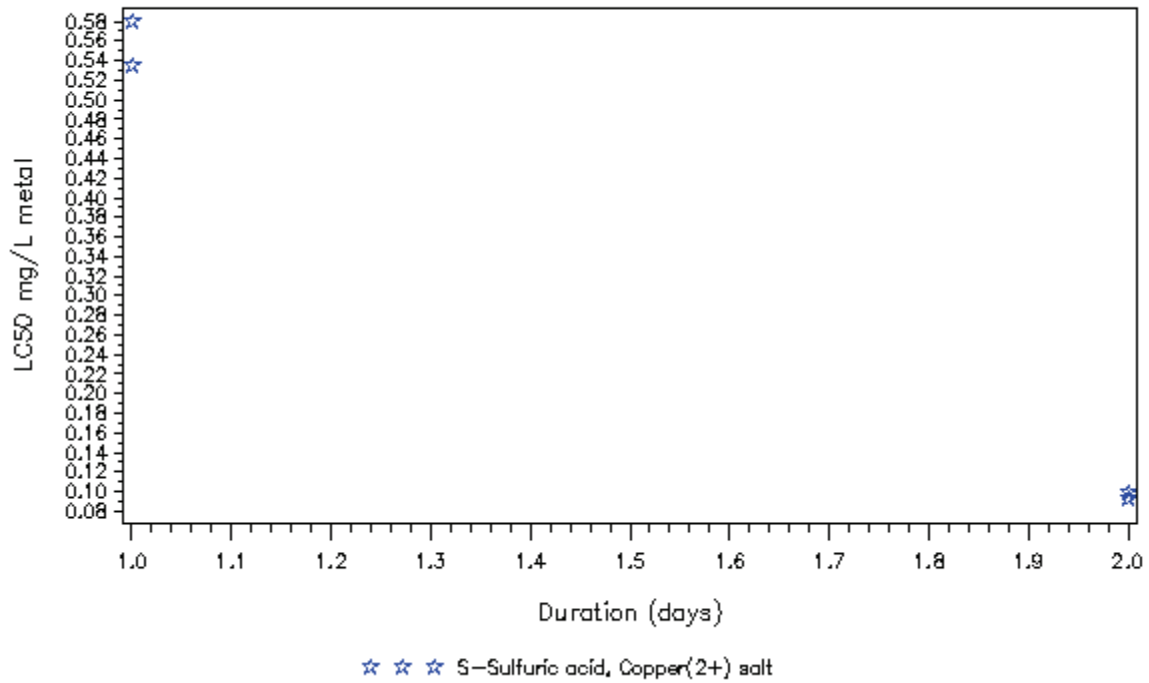


Daphnia magna exposed to Copper at T<=15C in soft water

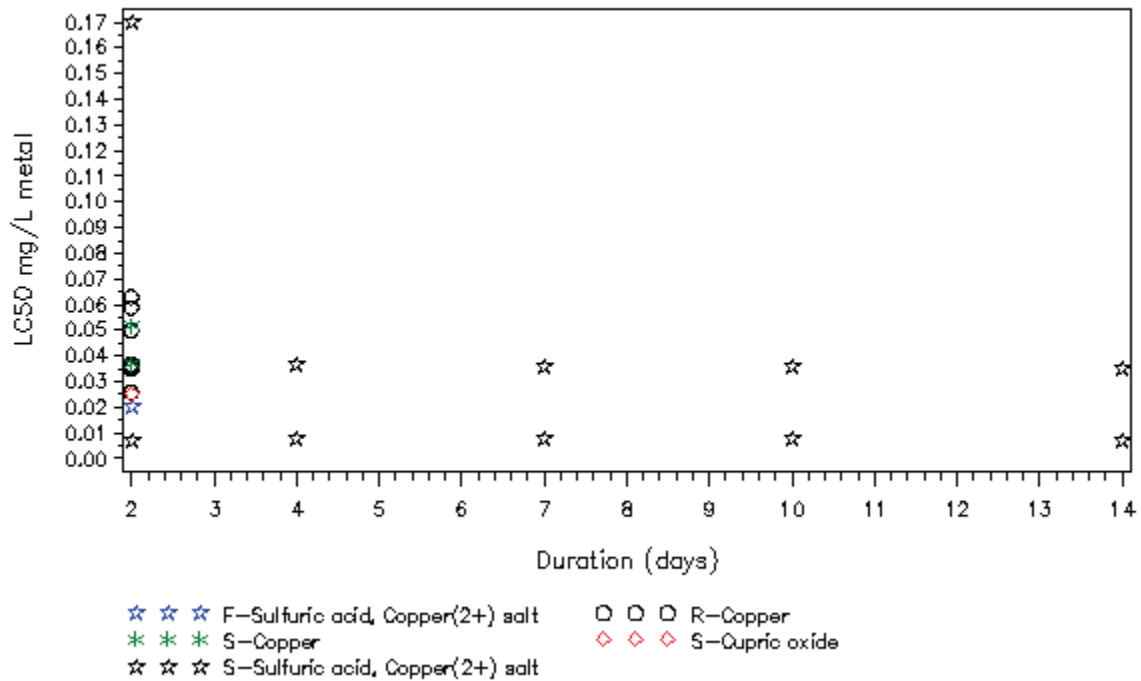


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Copper at T<=15C in very hard water

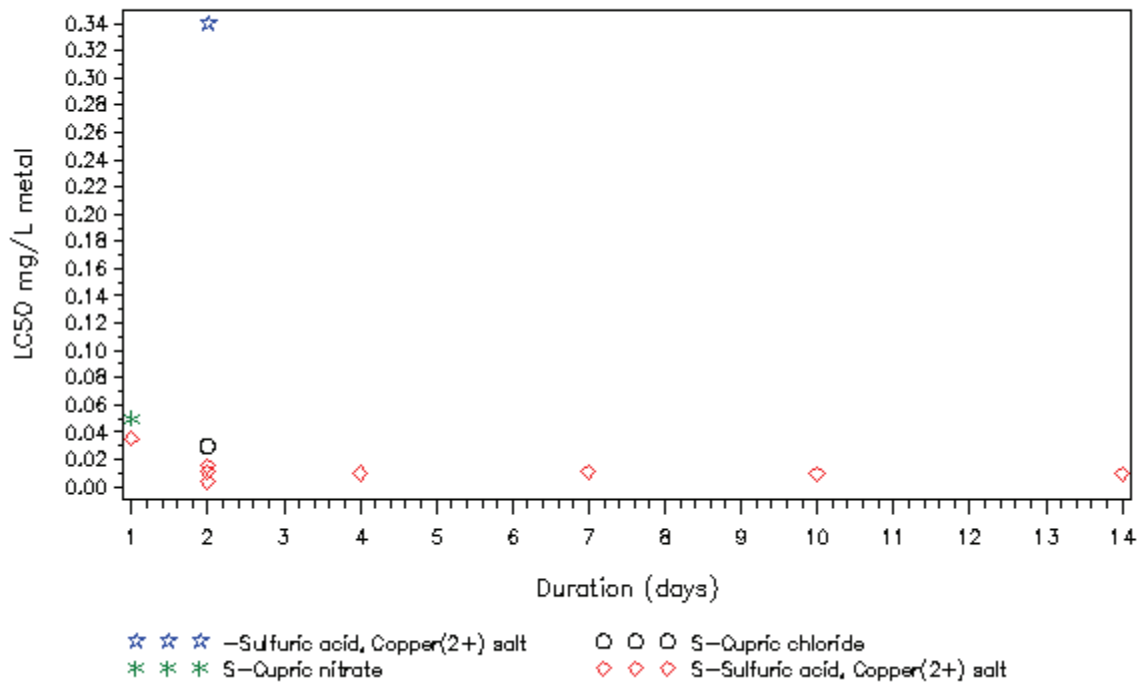


Daphnia magna exposed to Copper at T>15C in hard water

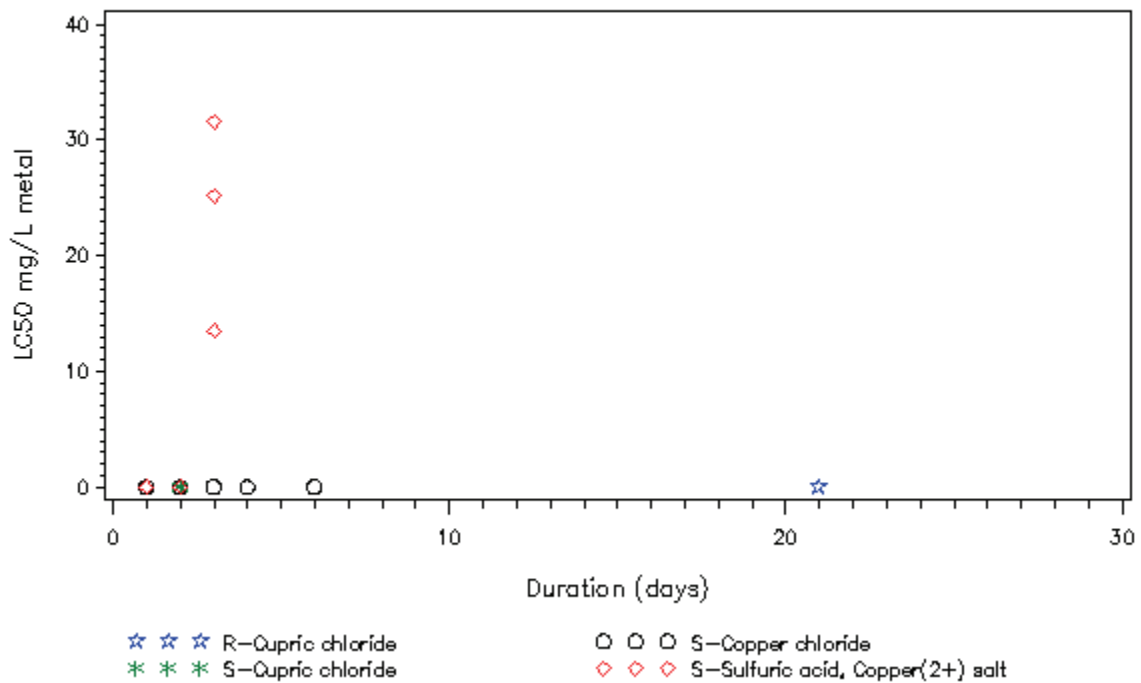


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Copper at T>15C in moderate water

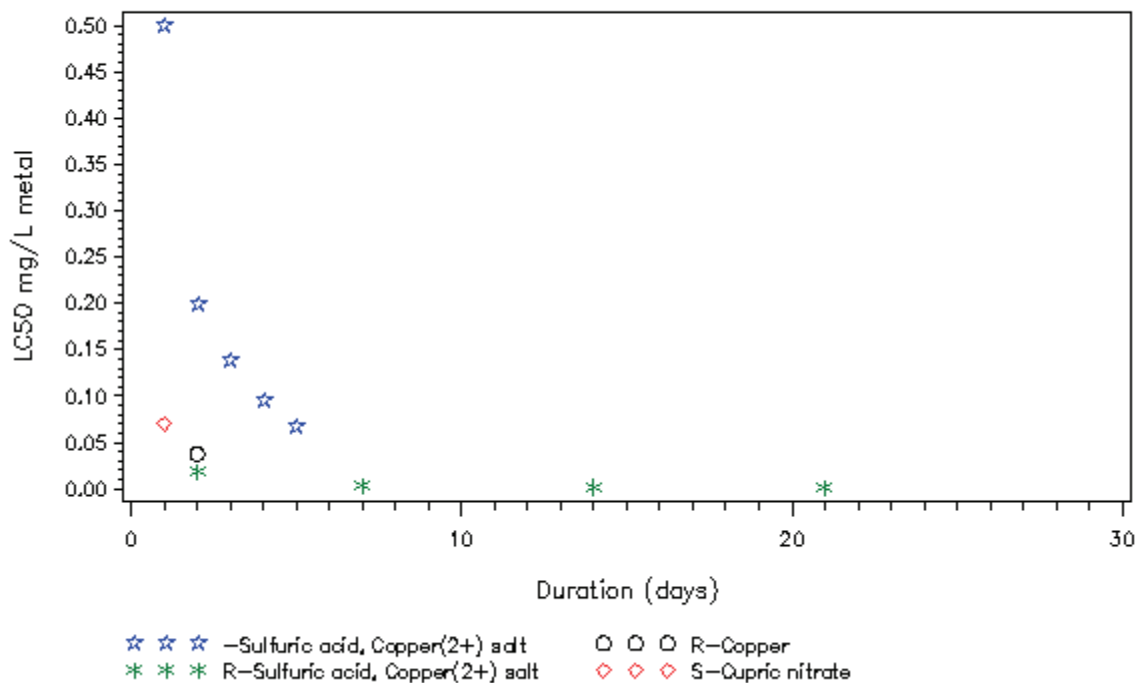


Daphnia magna exposed to Copper at T>15C in soft water

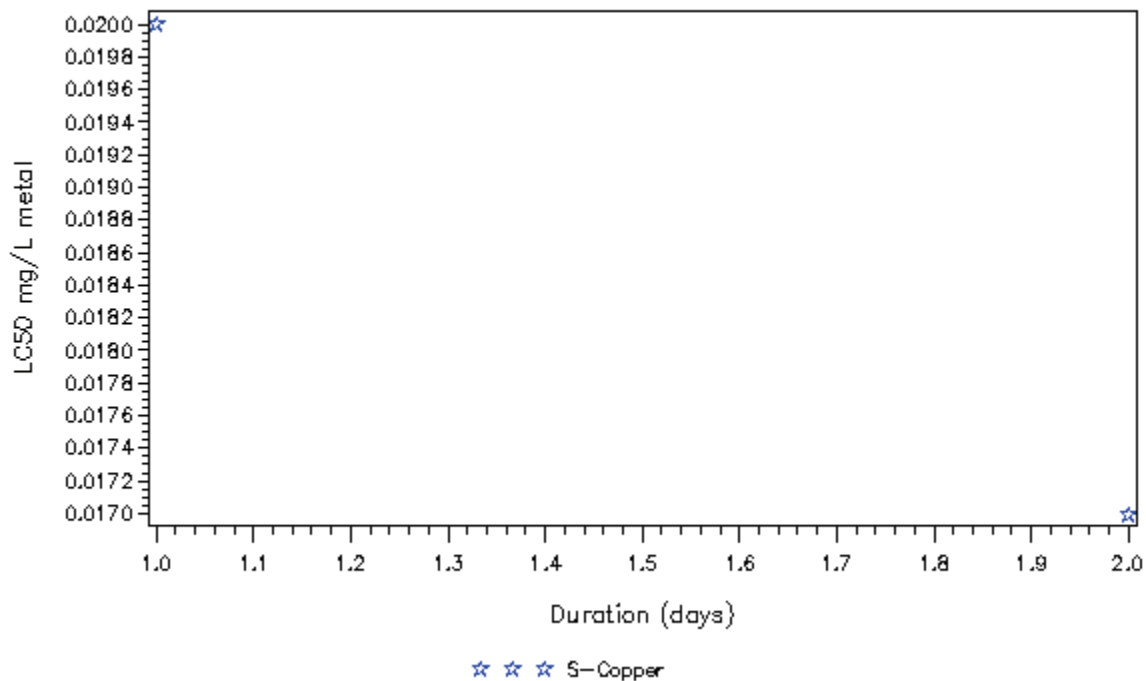


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Copper at T>15C in very hard water

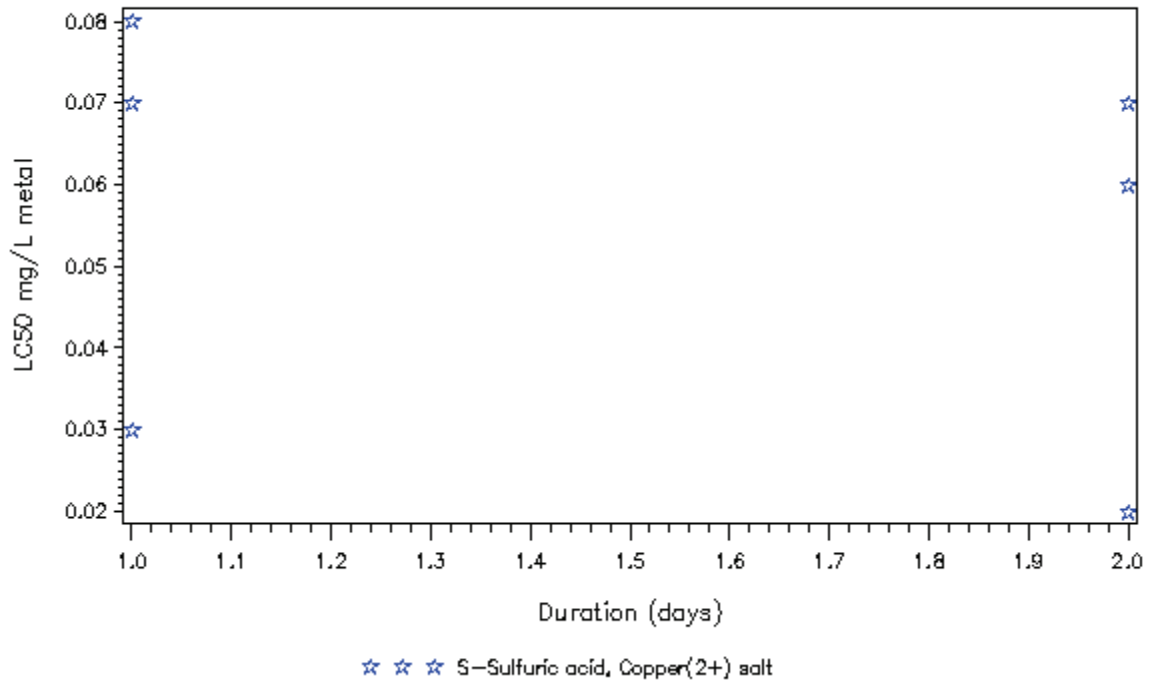


Daphnia obtusa exposed to Copper at T>15C in very hard water

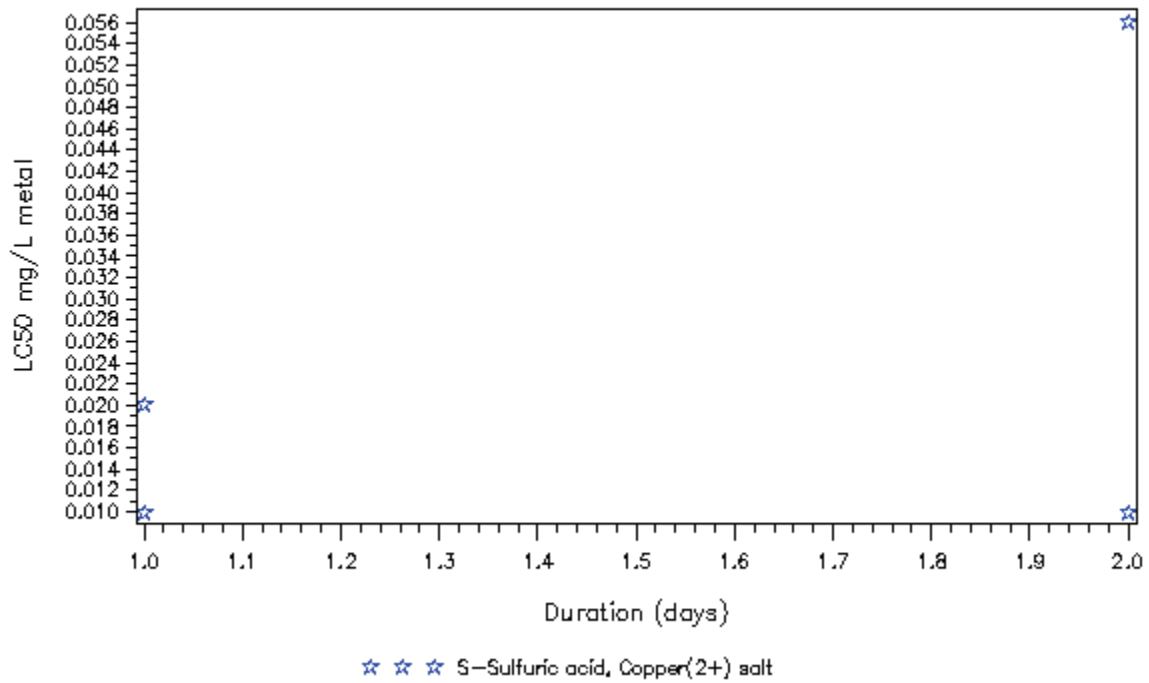


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia pulex exposed to Copper at T<=15C in soft water

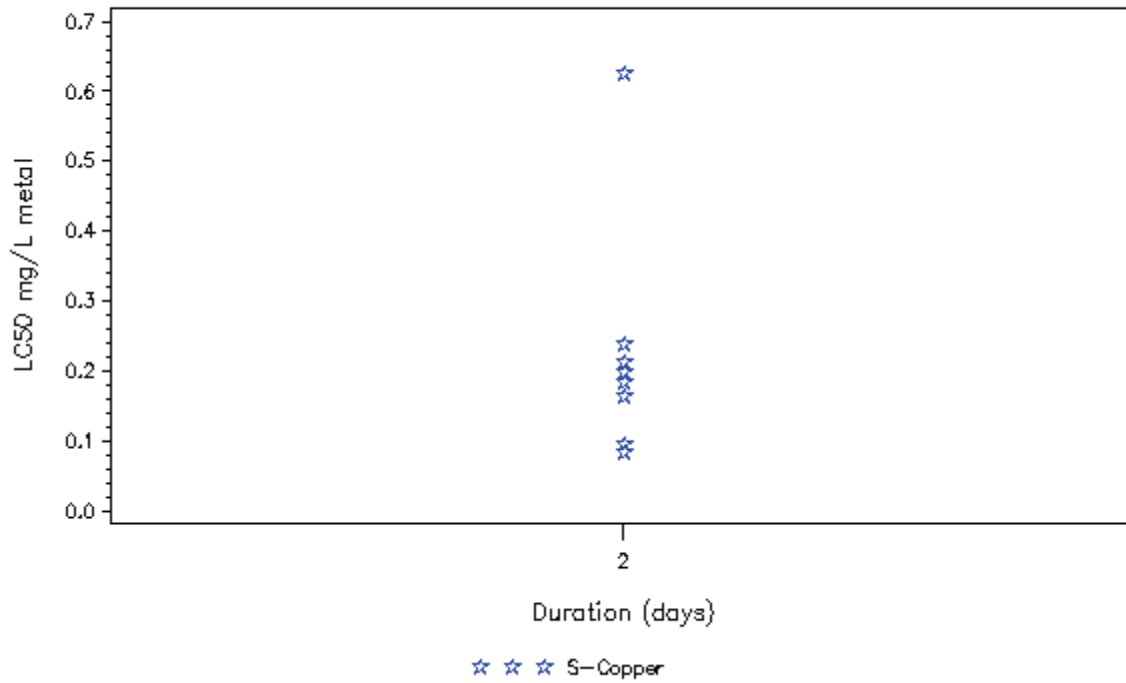


Daphnia pulex exposed to Copper at T>15C in soft water

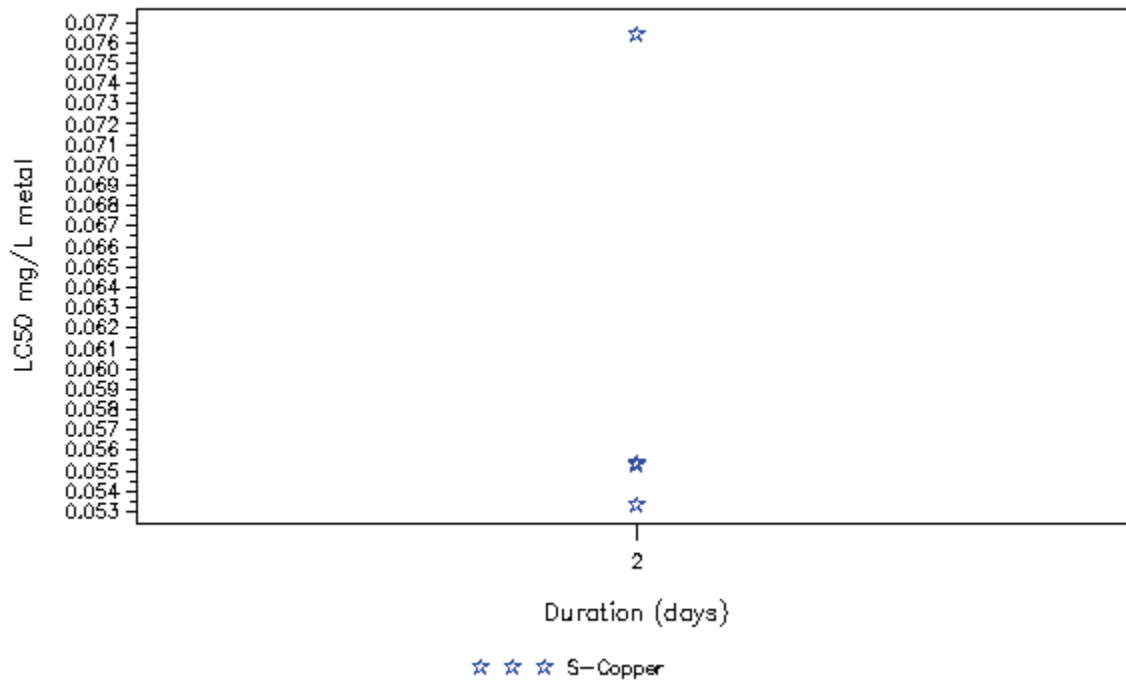


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia pulicaria exposed to Copper at T>15C in moderate water

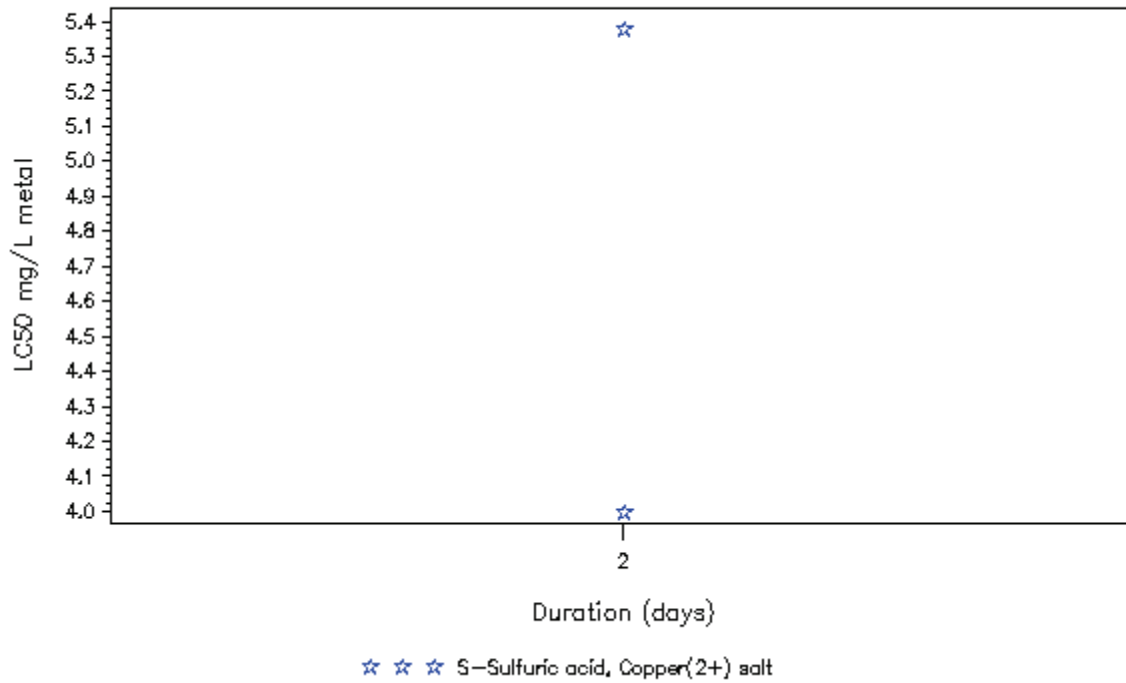


Daphnia pulicaria exposed to Copper at T>15C in soft water

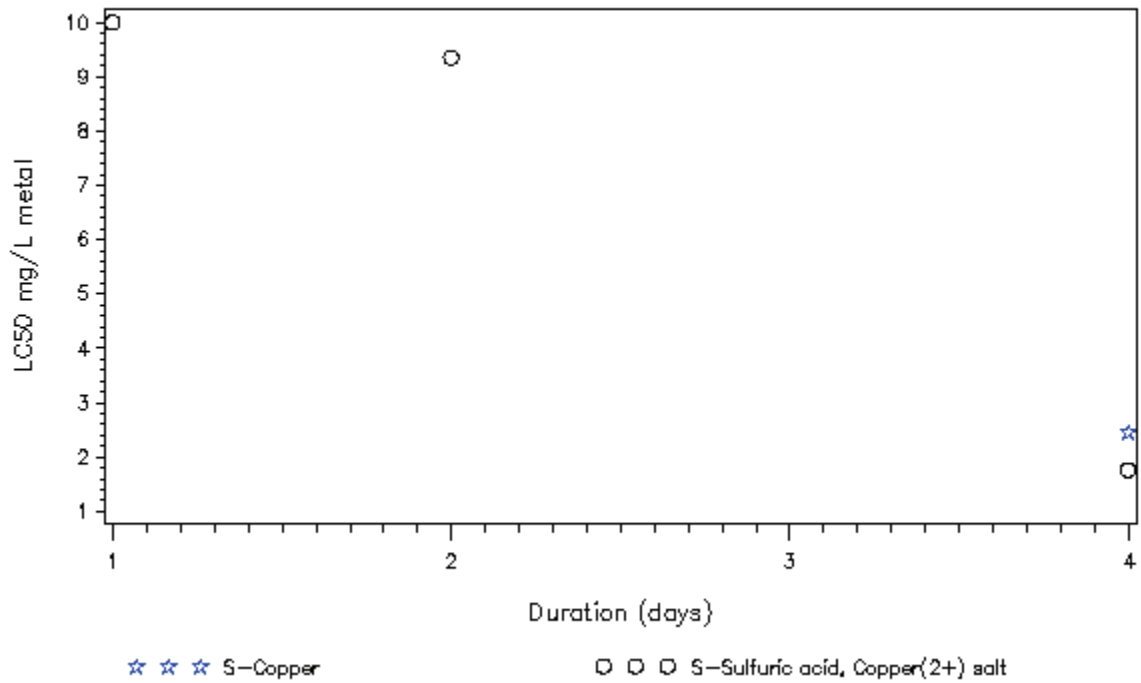


S – Static Test, F – Flowthrough Test, R –Renewal Test

Dreissena polymorpha exposed to Copper at T>15C in soft water

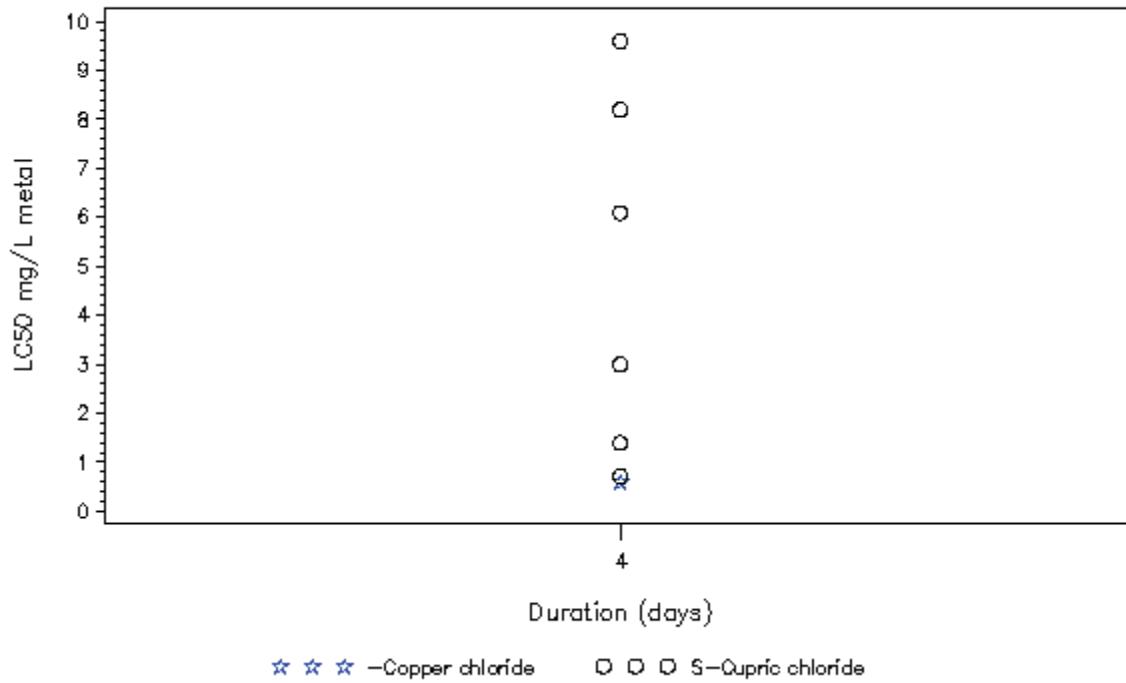


Dugesia tigrina exposed to Copper at T>15C in soft water

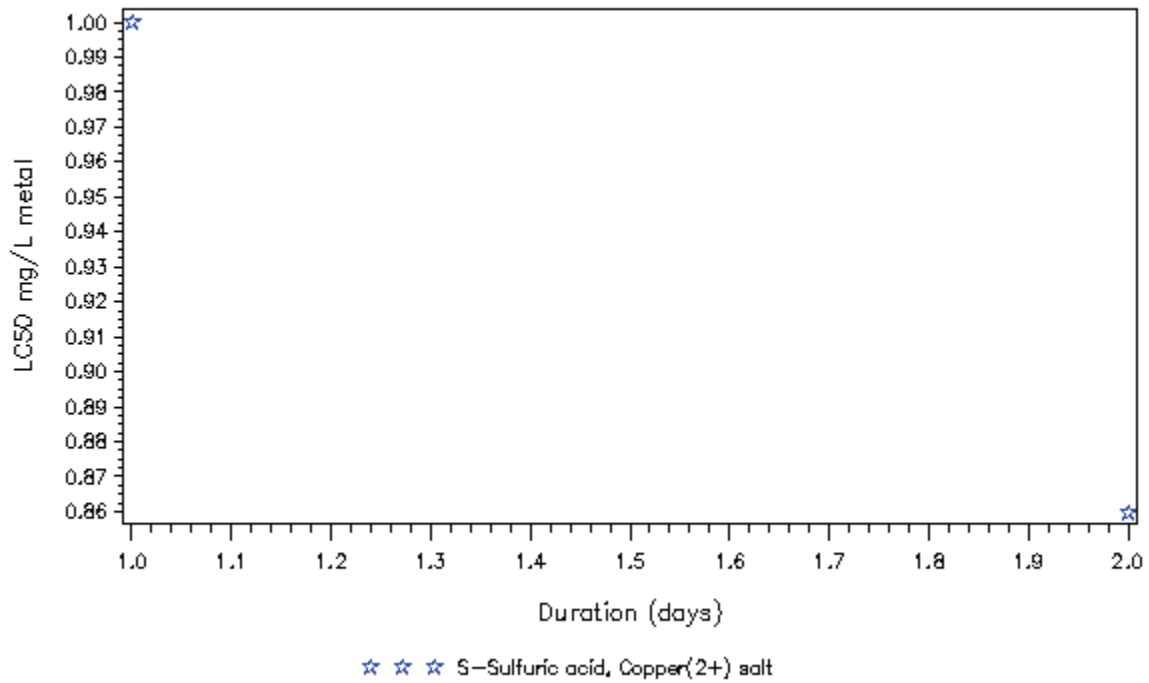


S – Static Test, F – Flowthrough Test, R –Renewal Test

Echinogammarus tibaldii exposed to Copper at T<=15C in very hard water

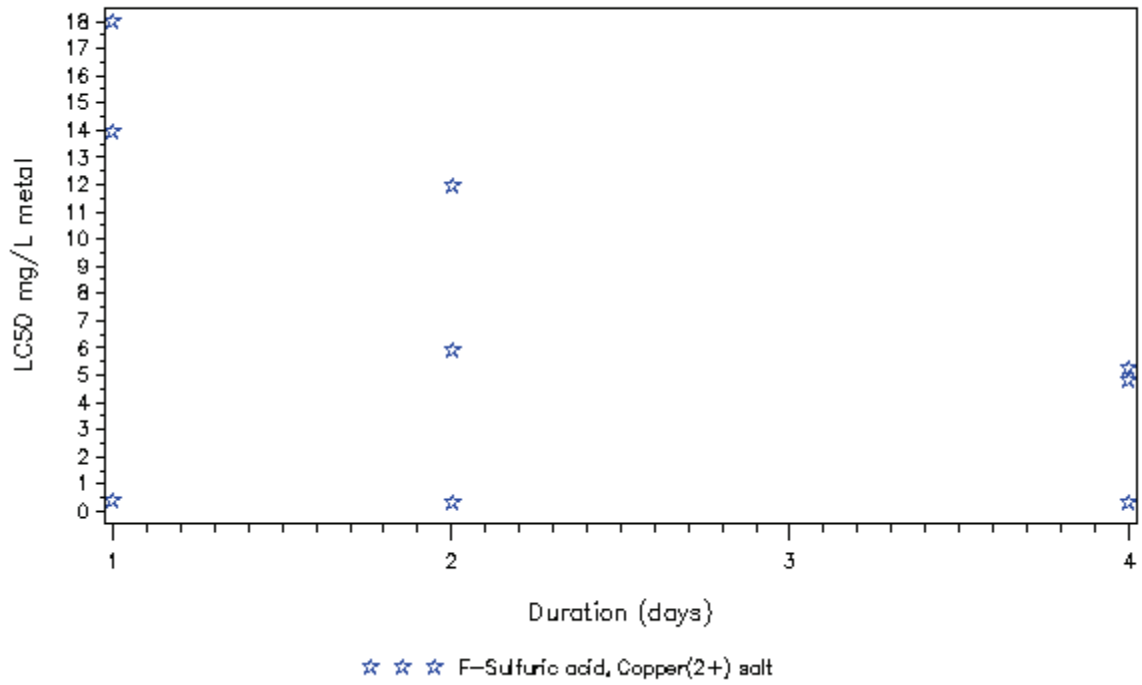


Elimia livescens exposed to Copper at T>15C in hard water

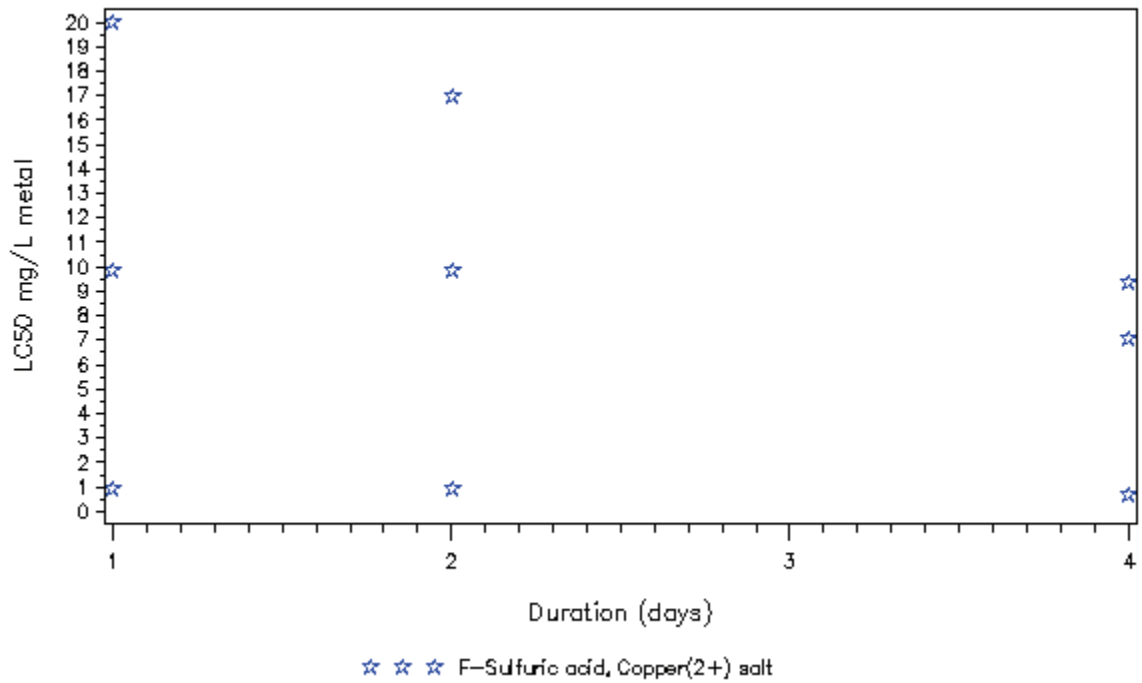


S – Static Test, F – Flowthrough Test, R –Renewal Test

Etheostoma caeruleum exposed to Copper at T>15C in very hard water

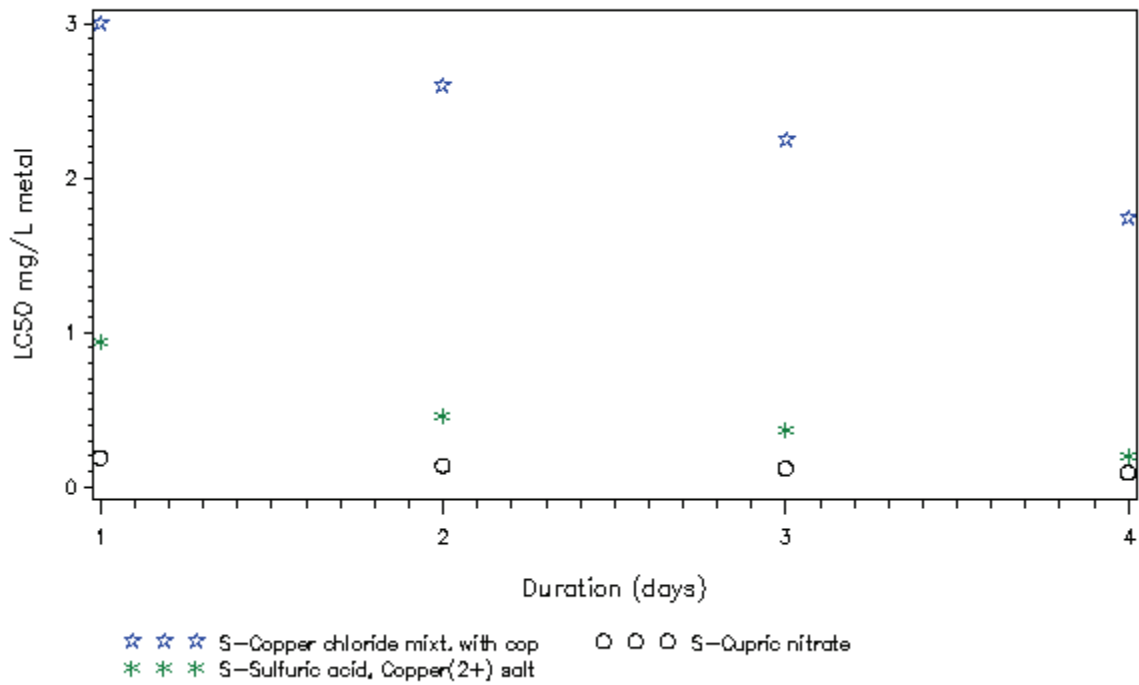


Etheostoma spectabile exposed to Copper at T>15C in very hard water

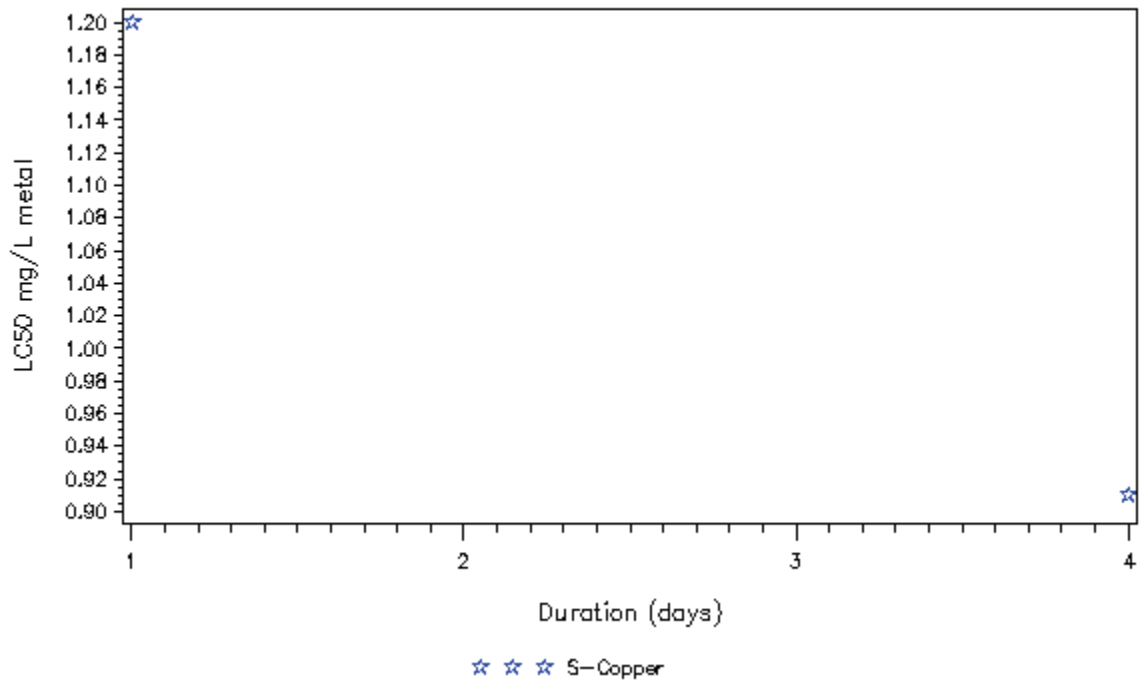


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gambusia affinis exposed to Copper at T>15C in soft water

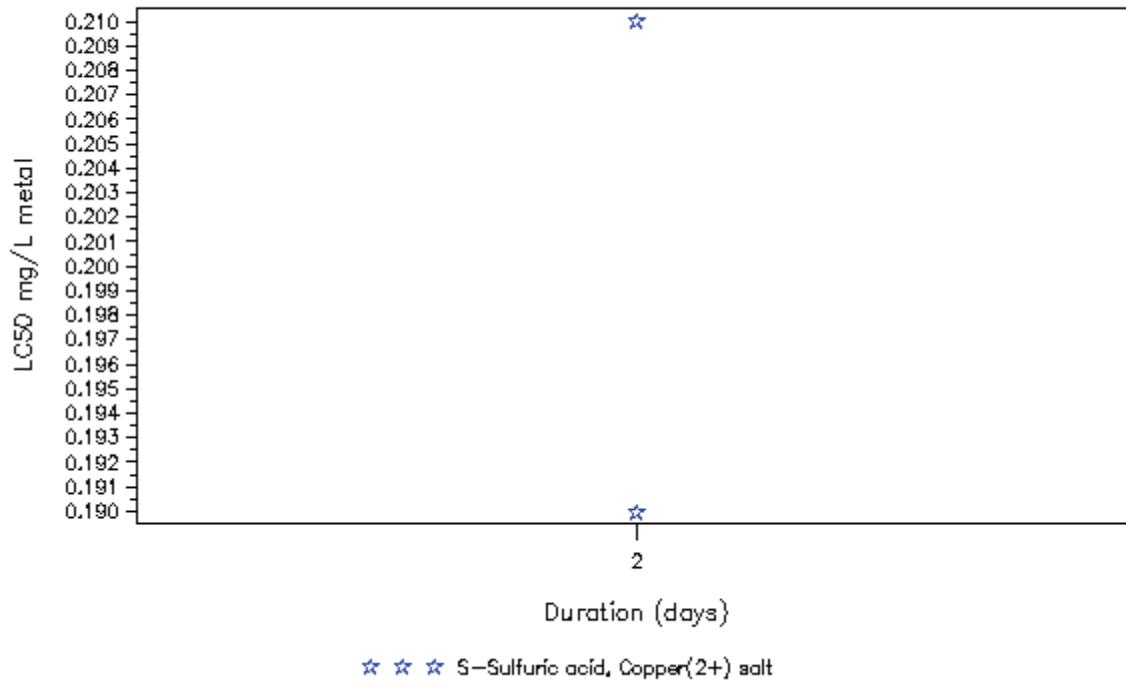


Gammarus exposed to Copper at T>15C in soft water

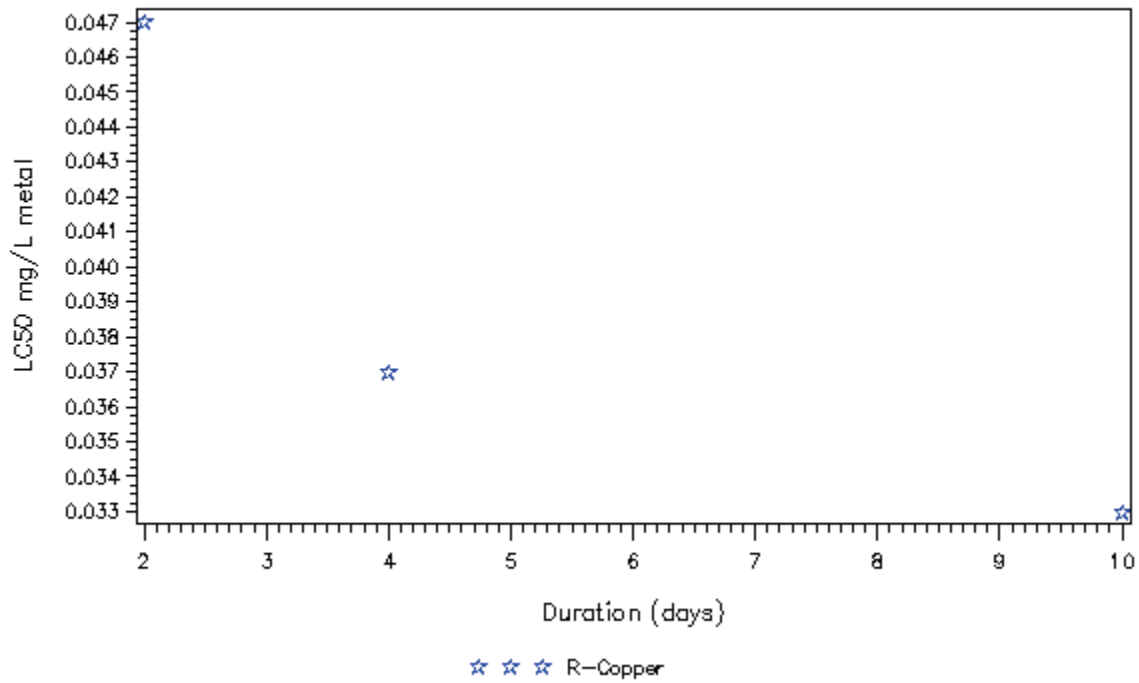


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gammarus fasciatus exposed to Copper at T<=15C in very hard water

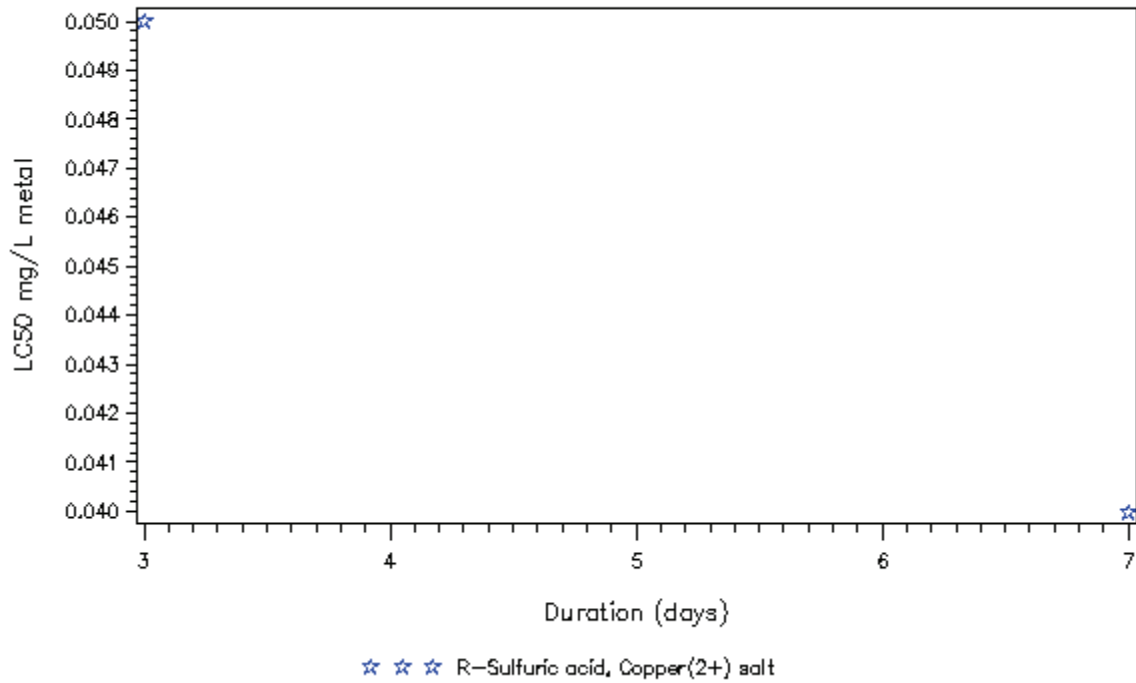


Gammarus pulex exposed to Copper at T<=15C in hard water

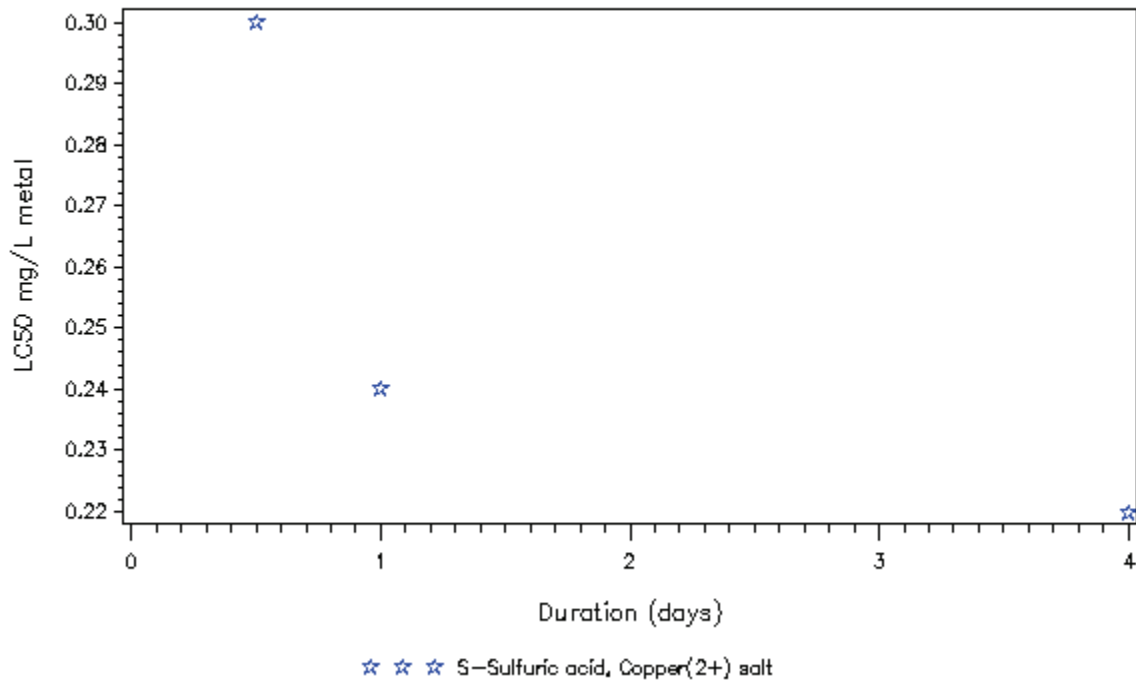


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gastrophryne carolinensis exposed to Copper at T>15C in very hard water

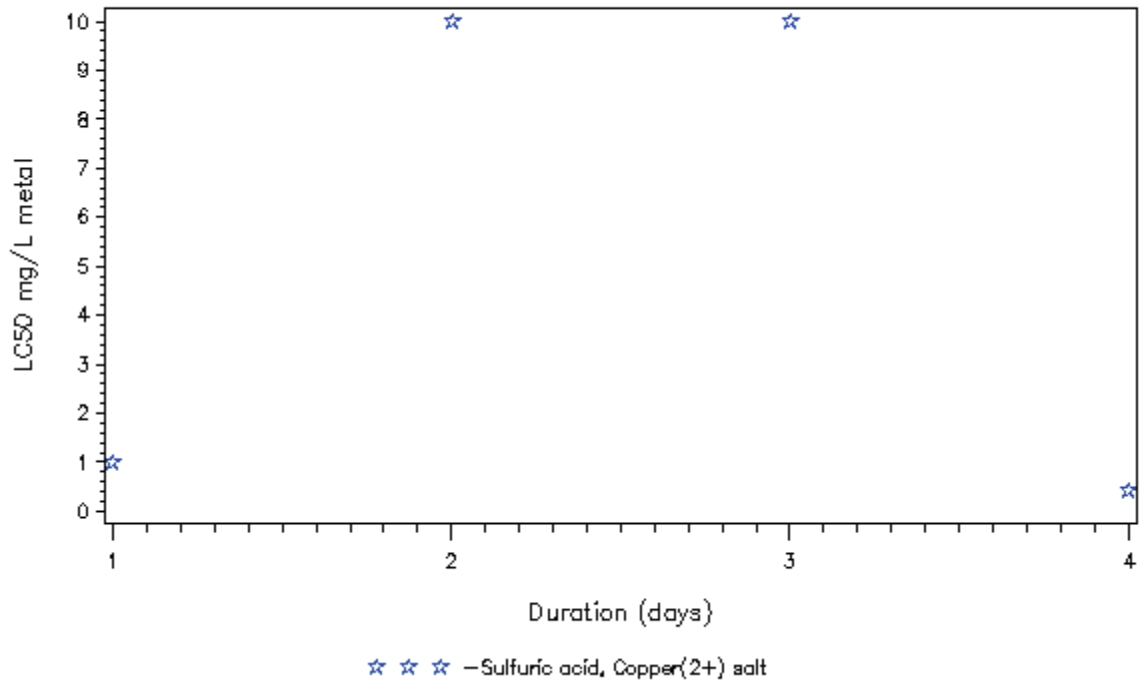


Gila elegans exposed to Copper at T>15C in hard water

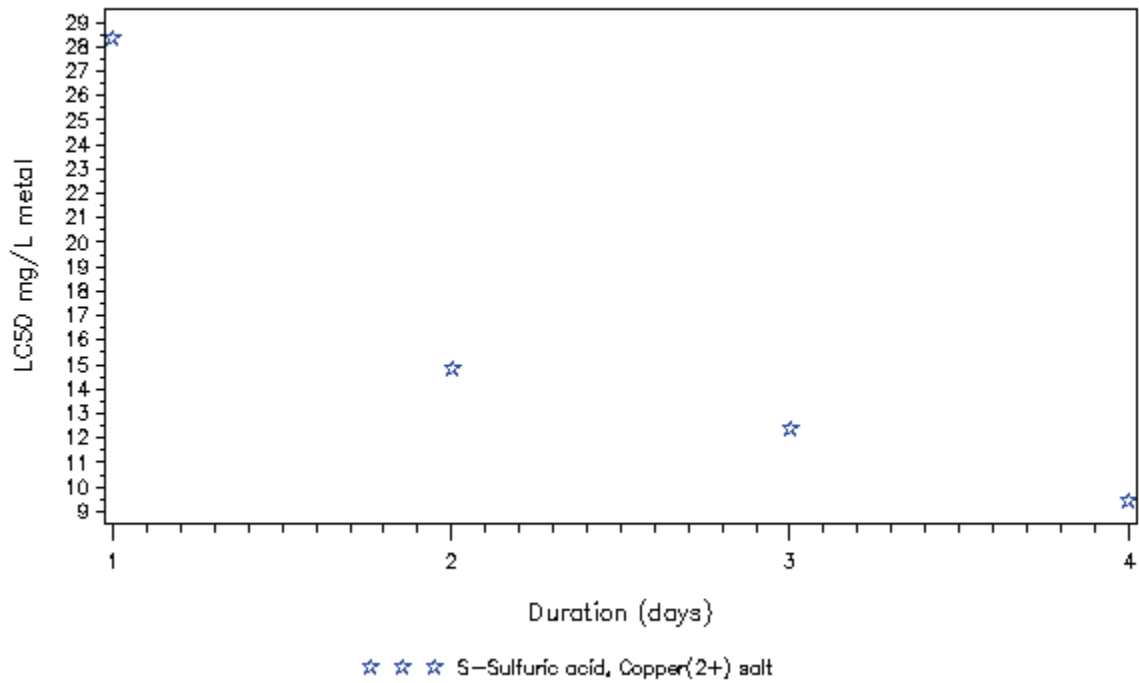


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gyraulus circumstriatus exposed to Copper at T>15C in moderate water

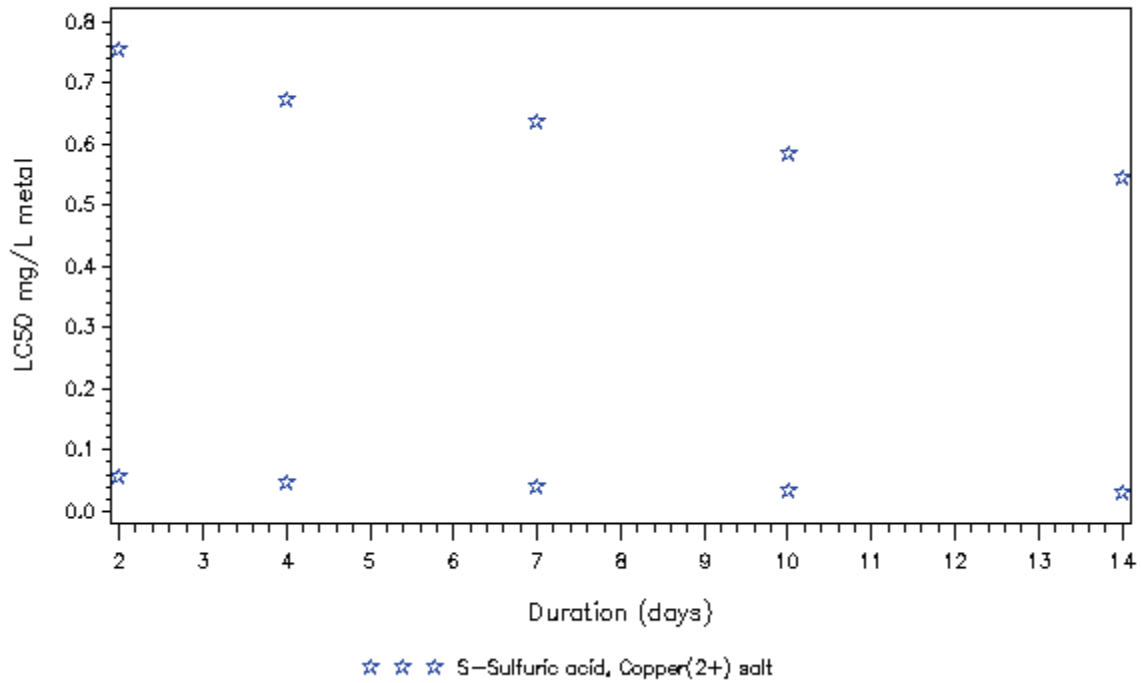


Heteropneustes fossilis exposed to Copper at T>15C in hard water

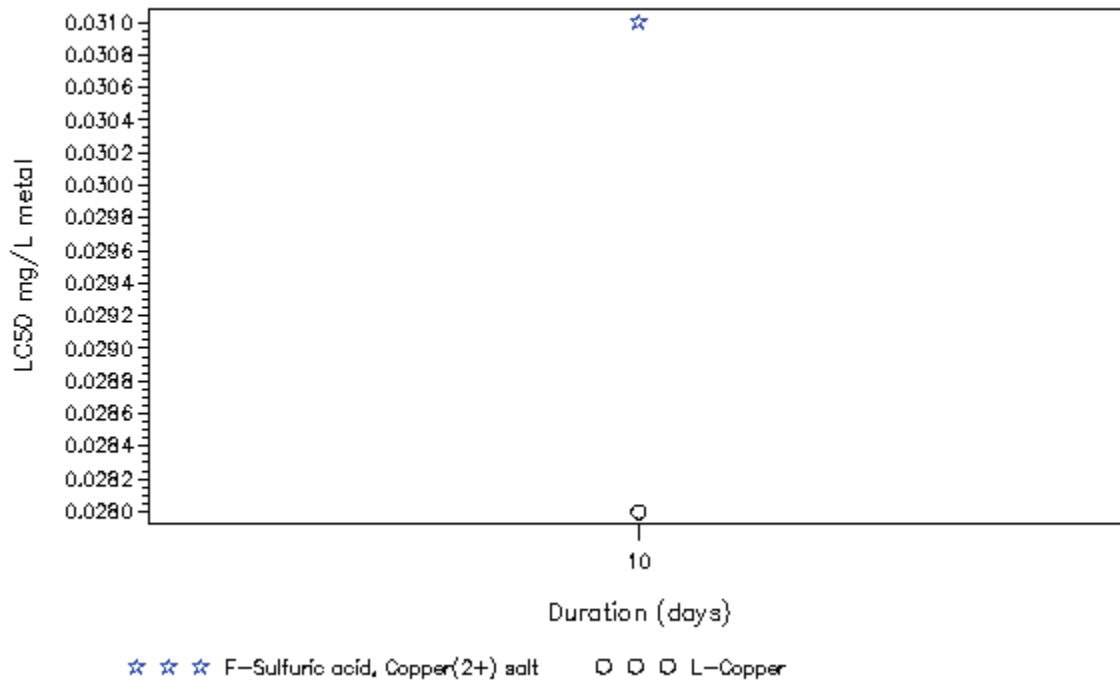


S – Static Test, F – Flowthrough Test, R –Renewal Test

Hyalella azteca exposed to Copper at T>15C in moderate water

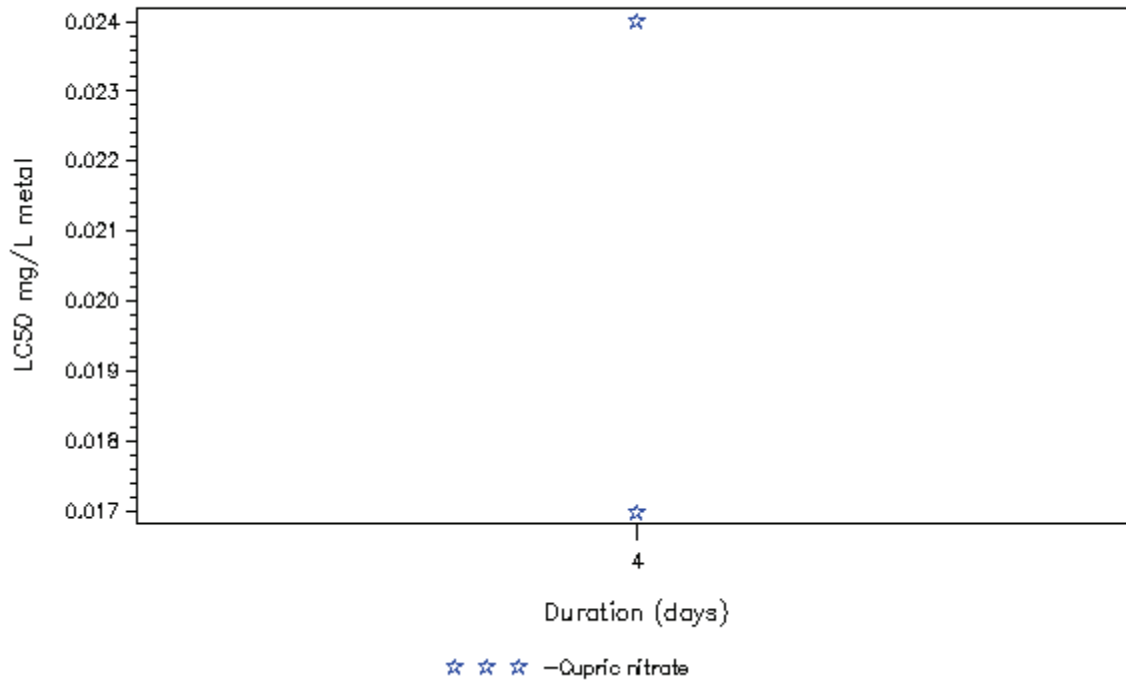


Hyalella azteca exposed to Copper at T>15C in soft water

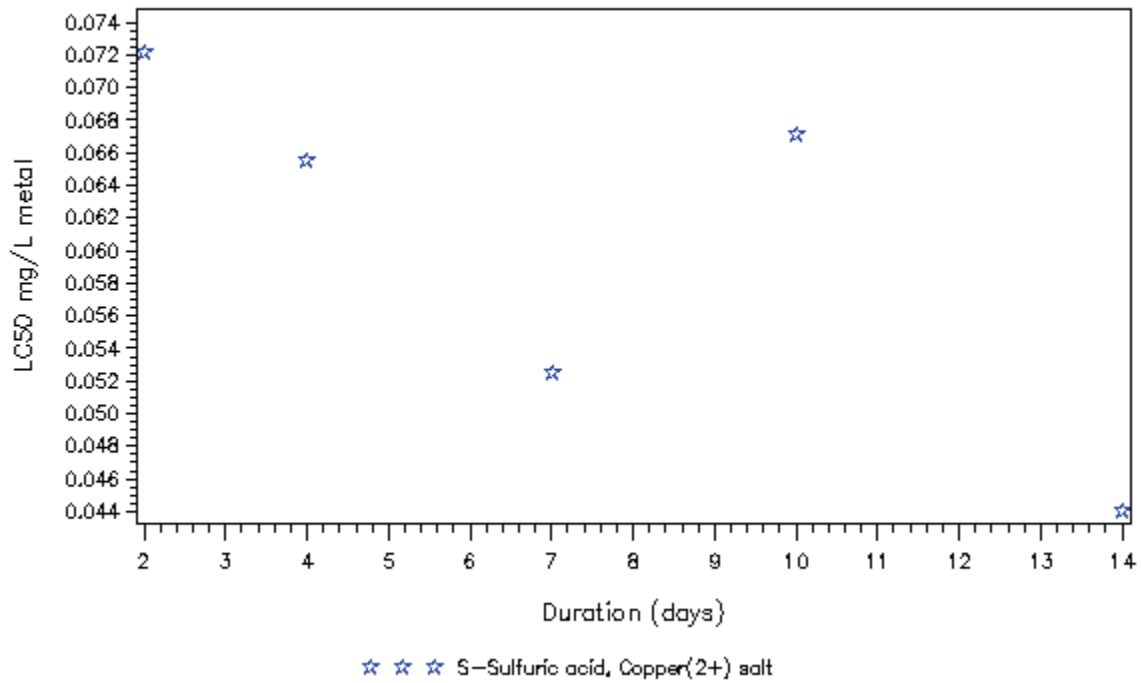


S – Static Test, F – Flowthrough Test, R –Renewal Test

Hyalella azteca exposed to Copper at T>15C in very hard water

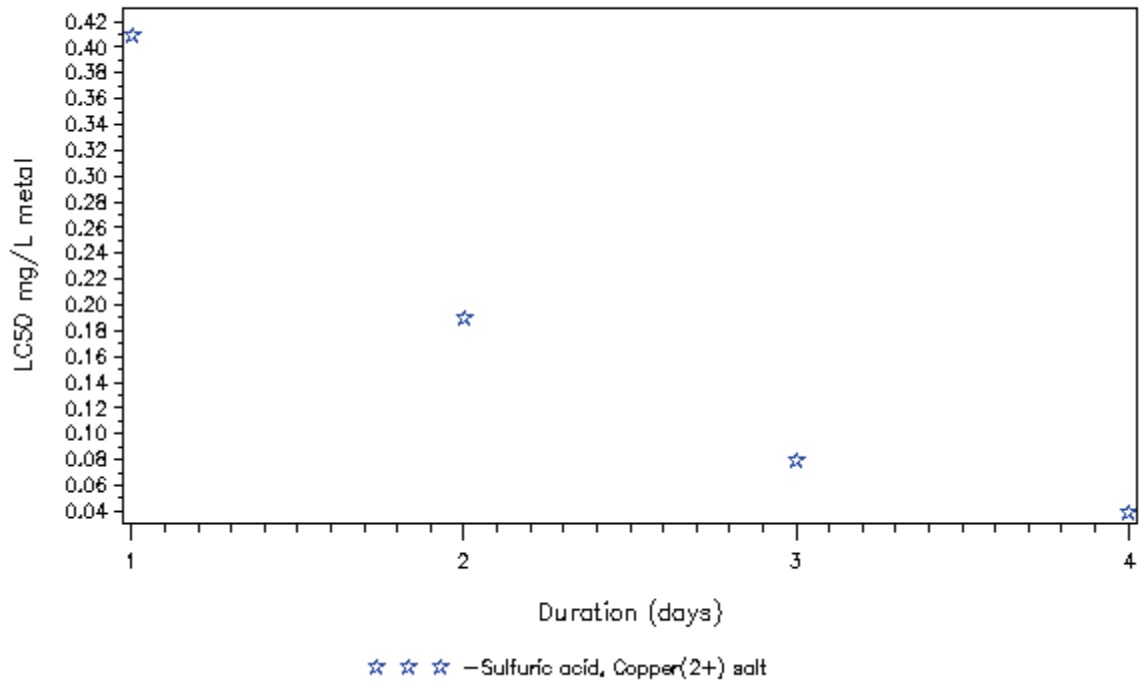


Hyalella azteca exposed to Copper at T>15C in very soft water

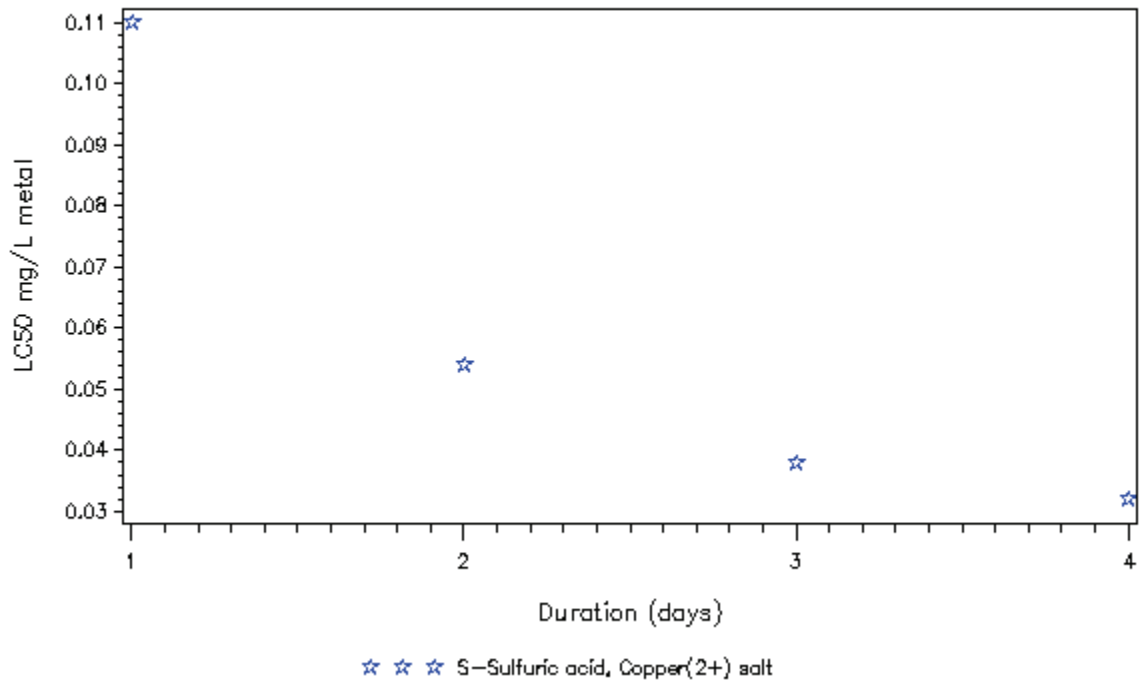


S – Static Test, F – Flowthrough Test, R –Renewal Test

Hydra vulgaris exposed to Copper at T>15C in moderate water

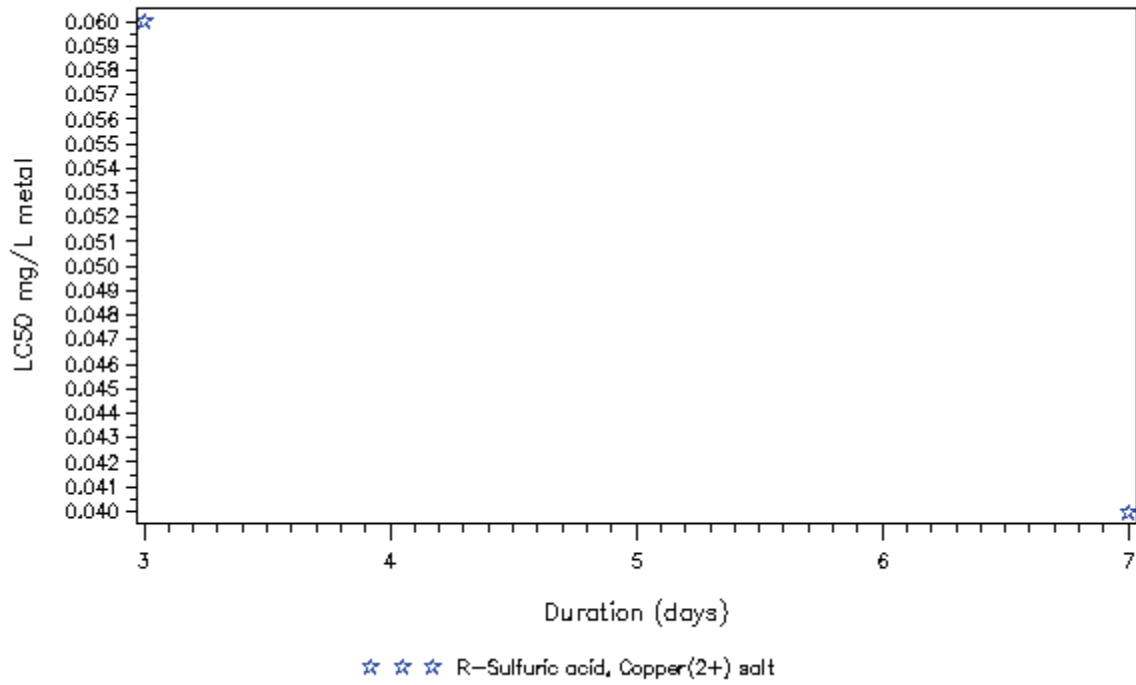


Hydra vulgaris exposed to Copper at T>15C in very hard water

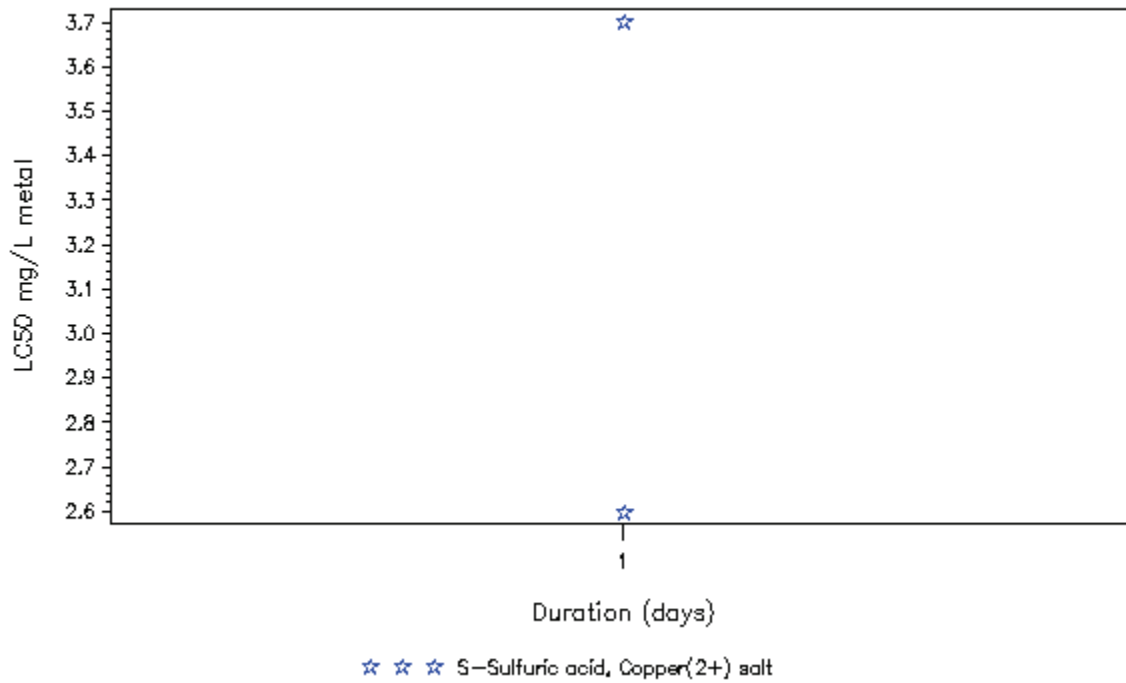


S – Static Test, F – Flowthrough Test, R –Renewal Test

Hyla chrysoscelis exposed to Copper at T>15C in moderate water

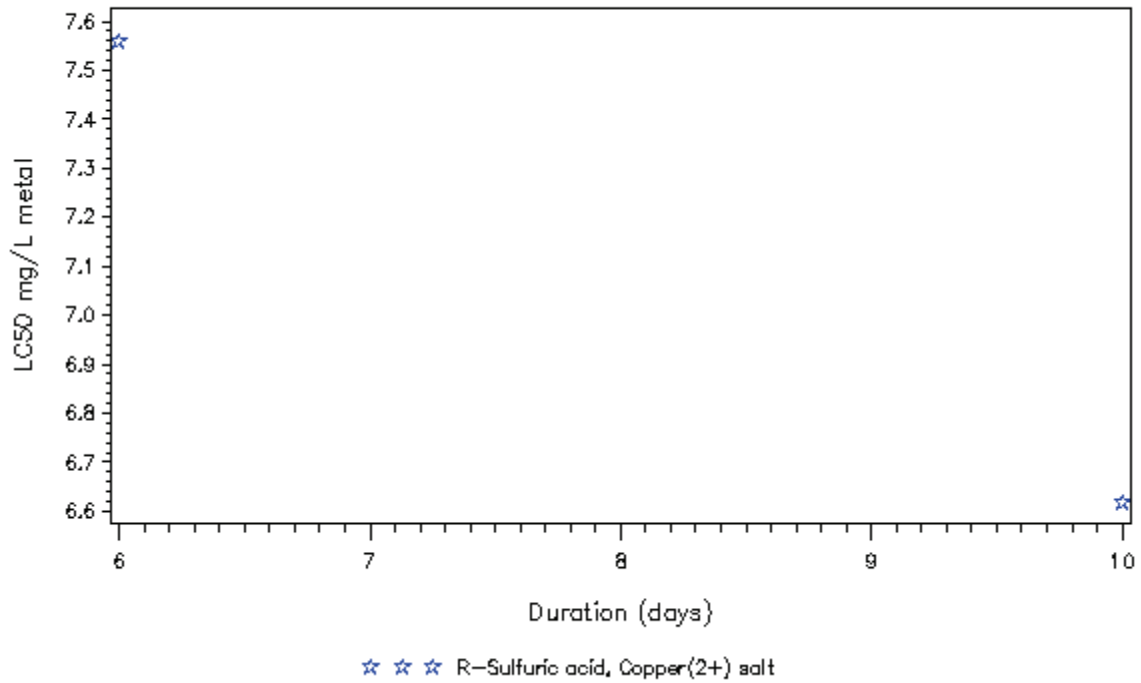


Ictalurus punctatus exposed to Copper at T<=15C in soft water

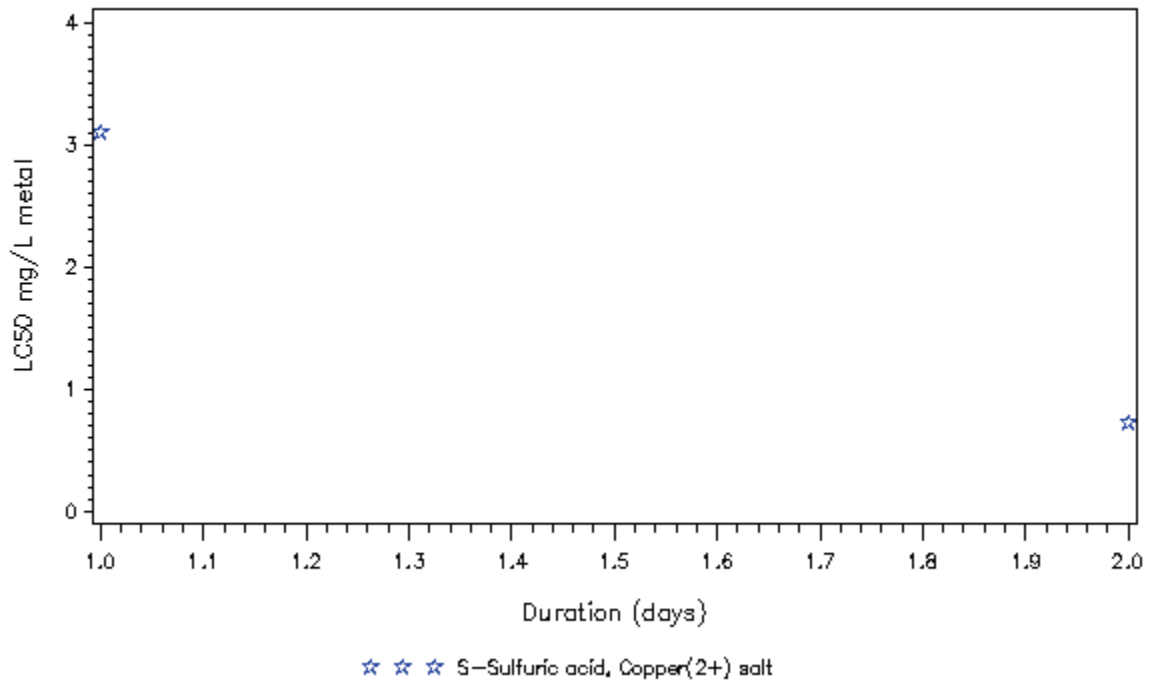


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ictalurus punctatus exposed to Copper at T>15C in moderate water

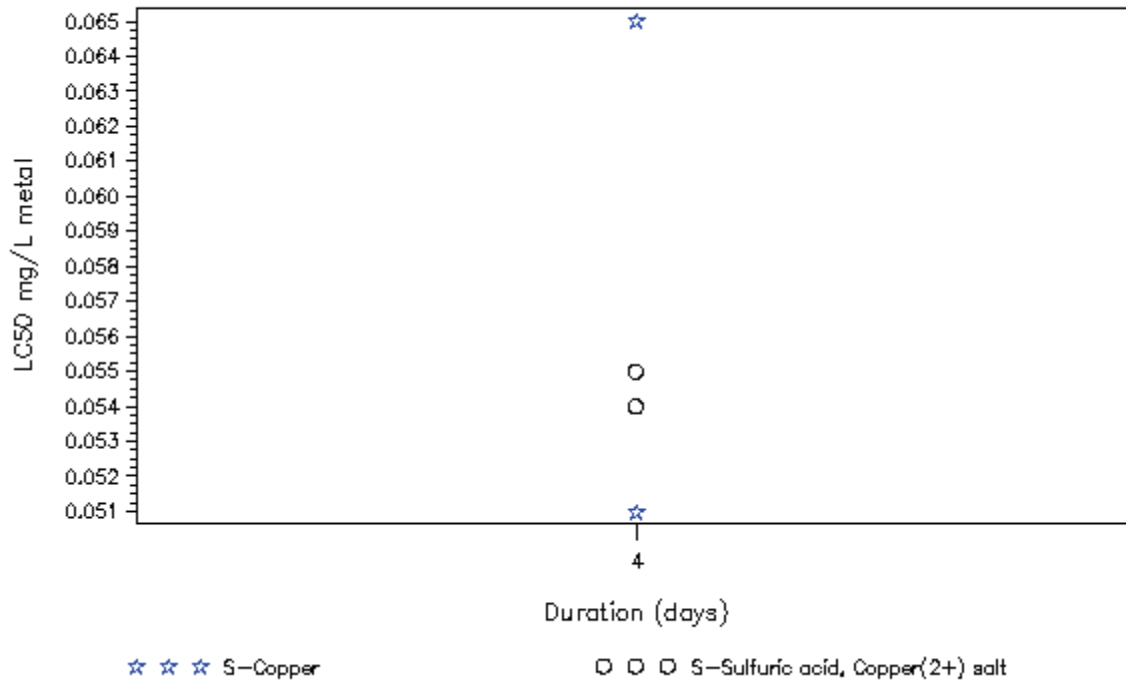


Ictalurus punctatus exposed to Copper at T>15C in soft water

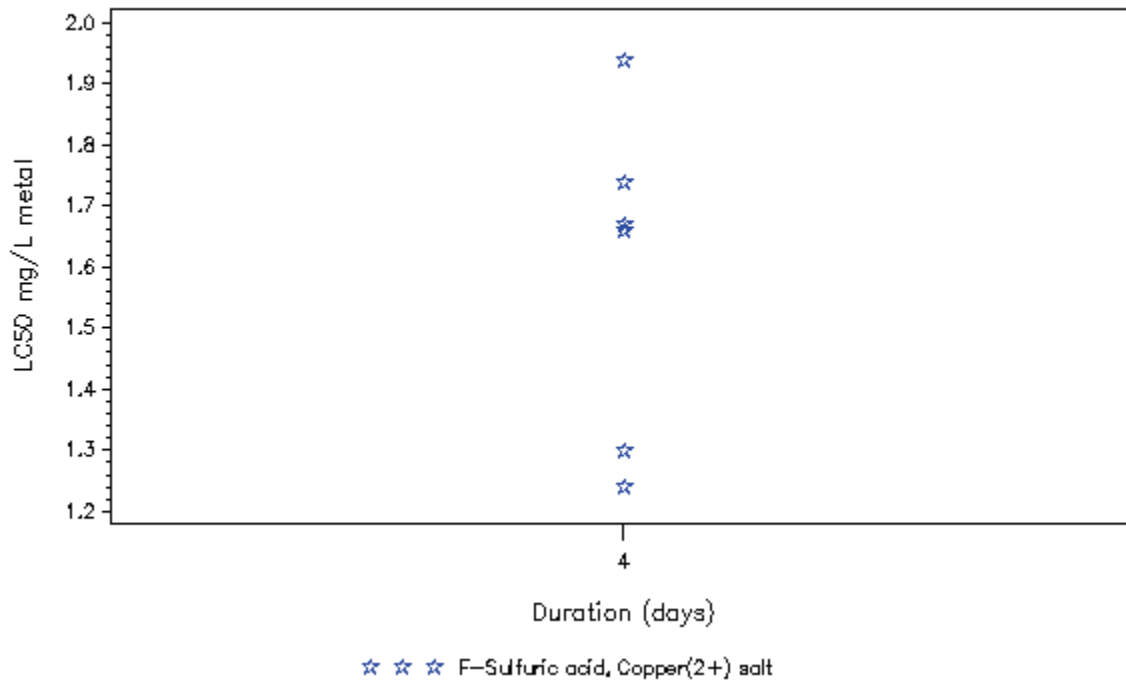


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ictalurus punctatus exposed to Copper at T>15C in very soft water

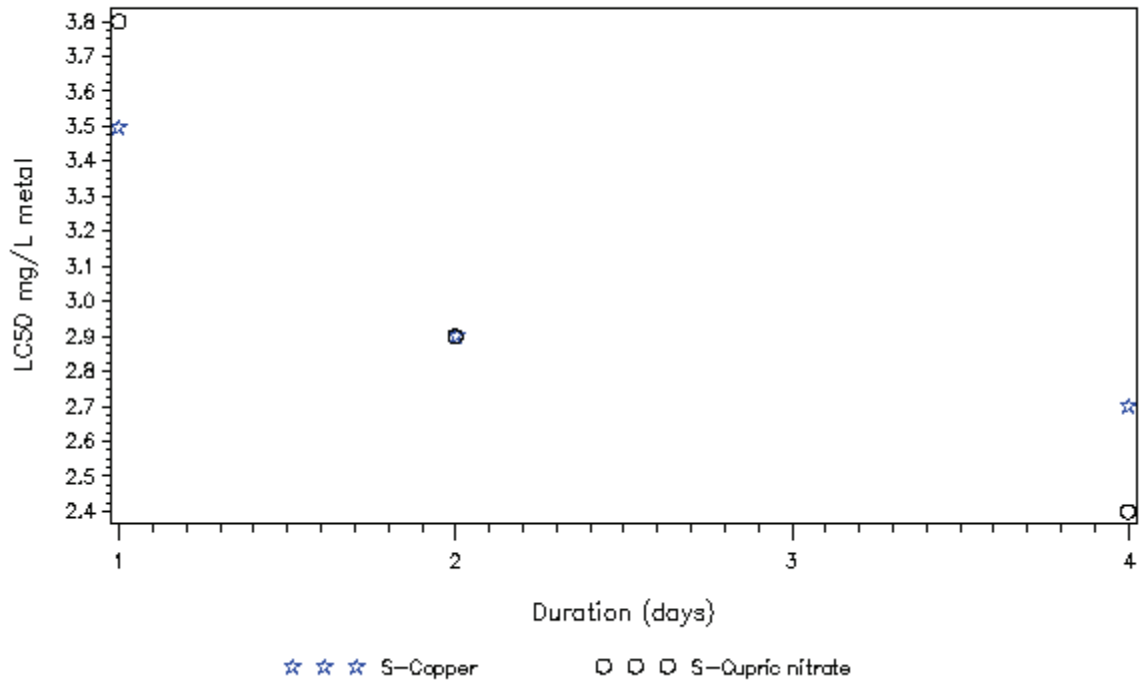


Lepomis gibbosus exposed to Copper at T>15C in hard water

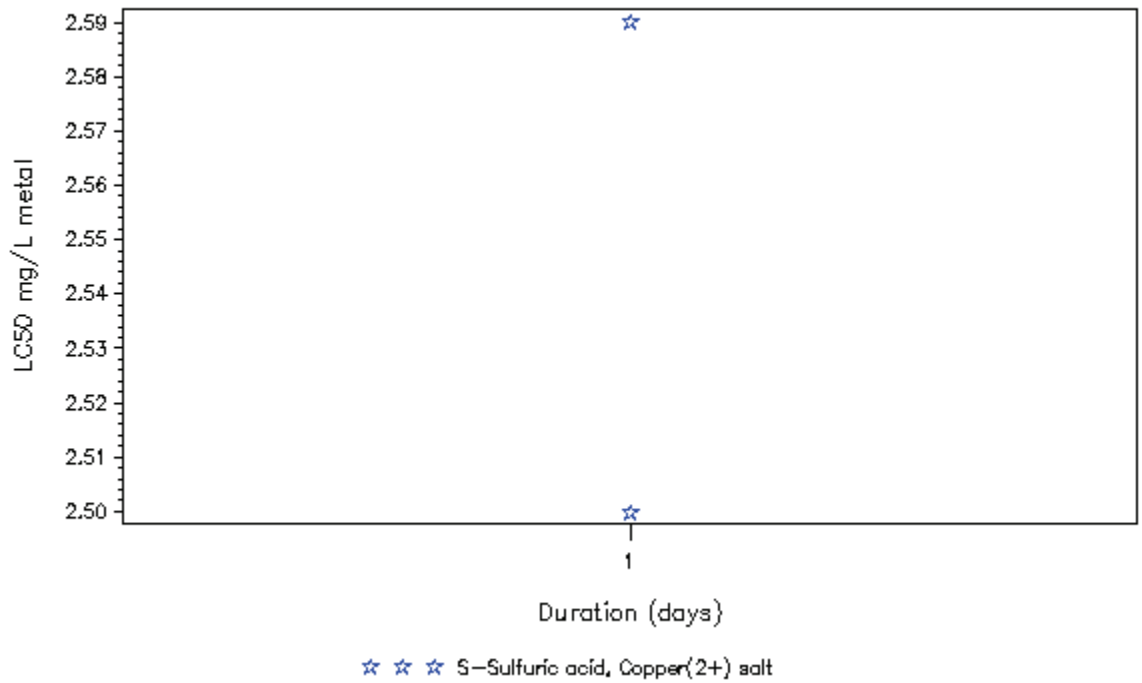


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis gibbosus exposed to Copper at T>15C in soft water

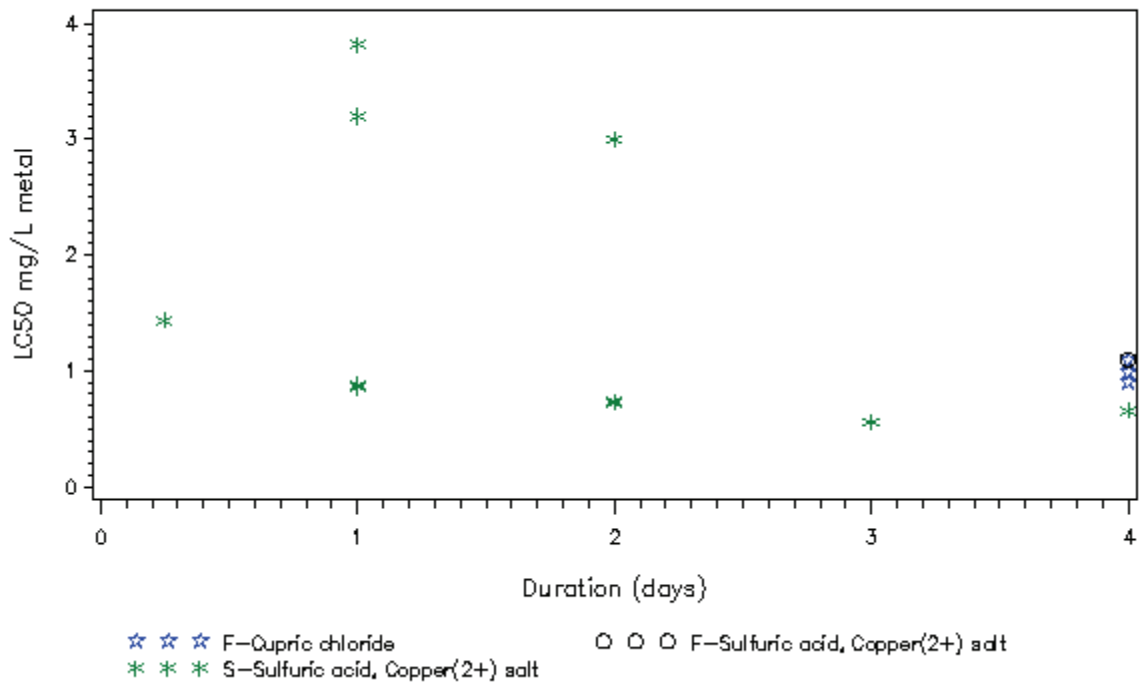


Lepomis macrochirus exposed to Copper at T<=15C in soft water

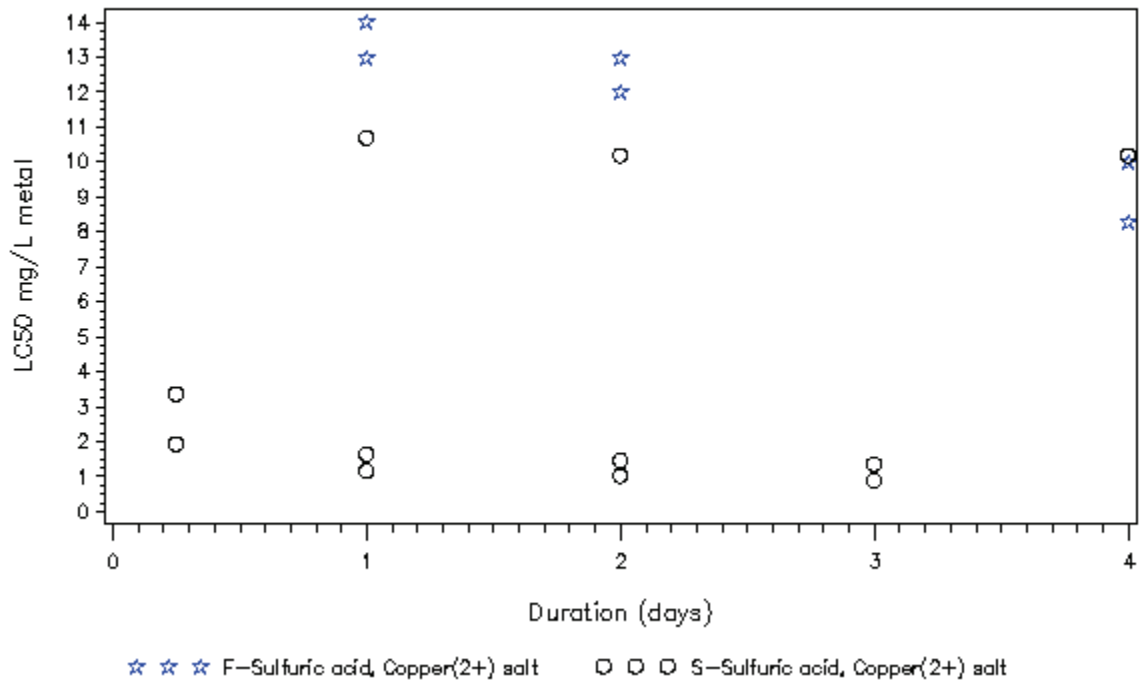


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis macrochirus exposed to Copper at T>15C in soft water

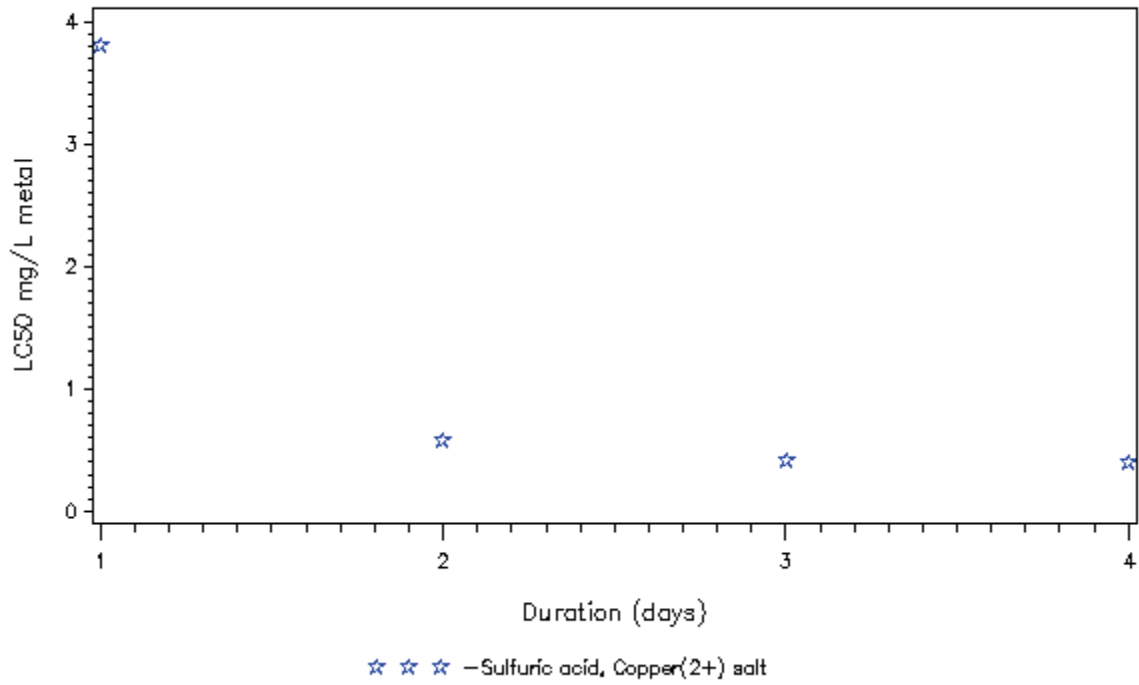


Lepomis macrochirus exposed to Copper at T>15C in very hard water

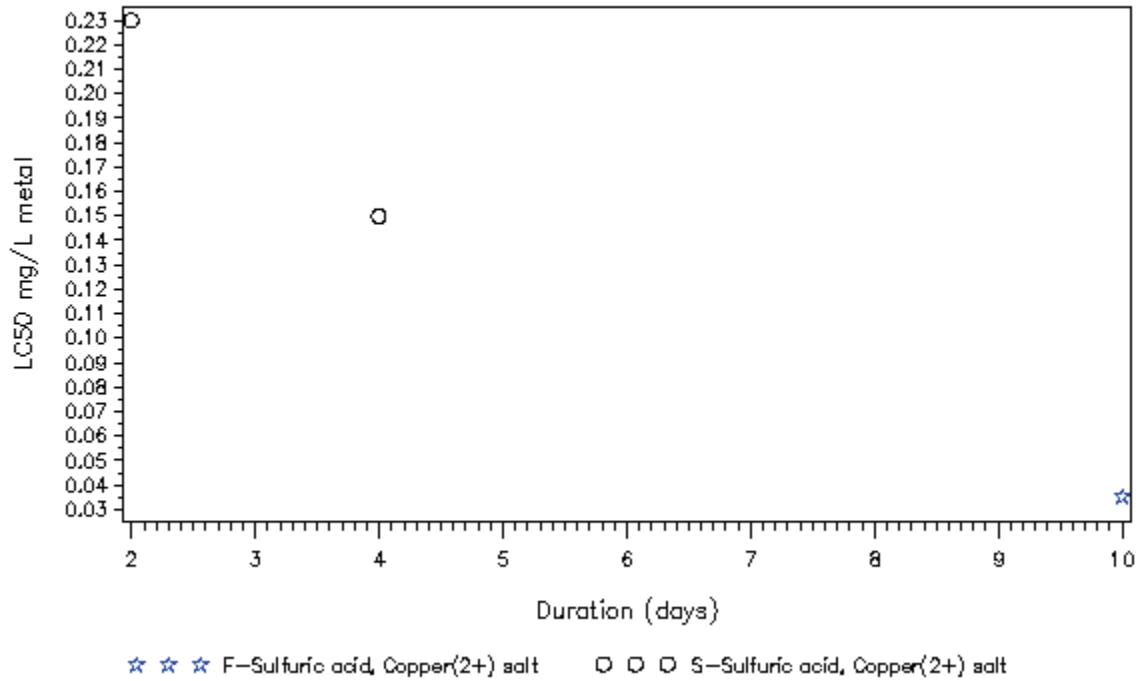


S – Static Test, F – Flowthrough Test, R –Renewal Test

Limnodrilus hoffmeisteri exposed to Copper at T>15C in moderate water

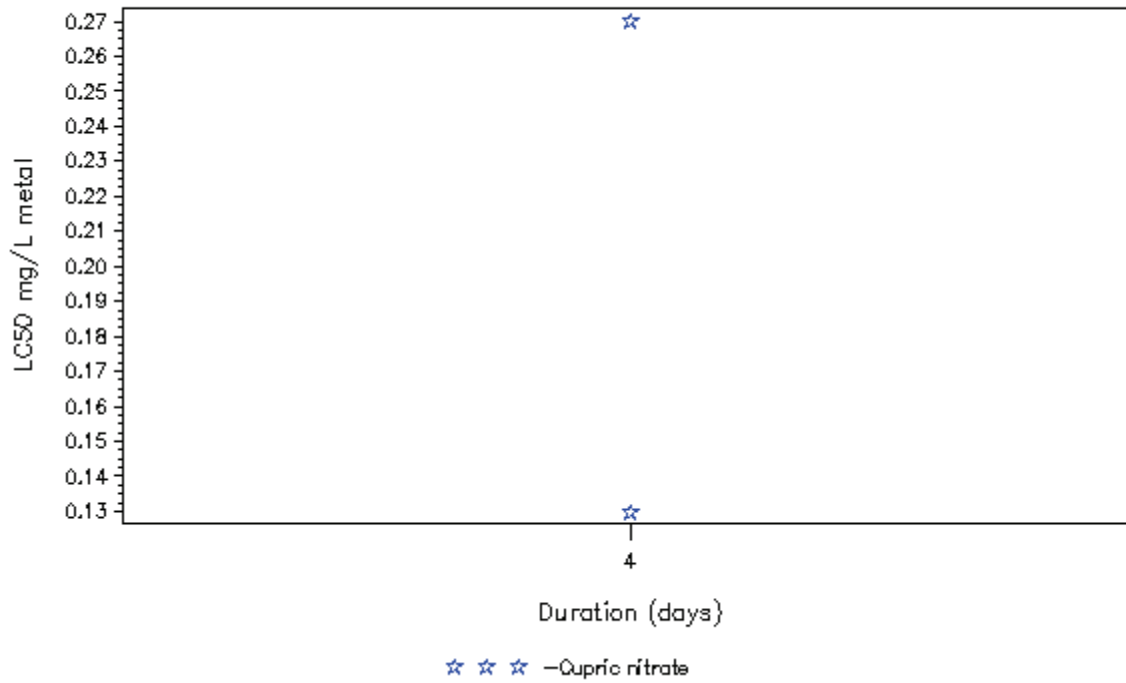


Lumbriculus variegatus exposed to Copper at T>15C in soft water

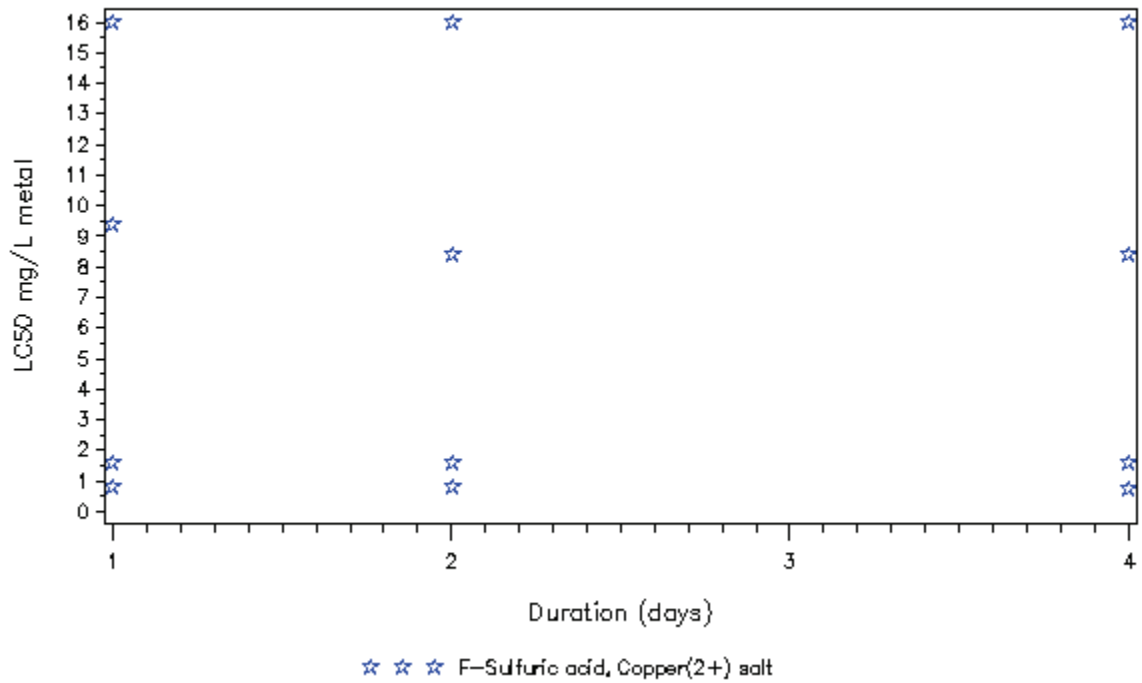


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lumbriculus variegatus exposed to Copper at T>15C in very hard water

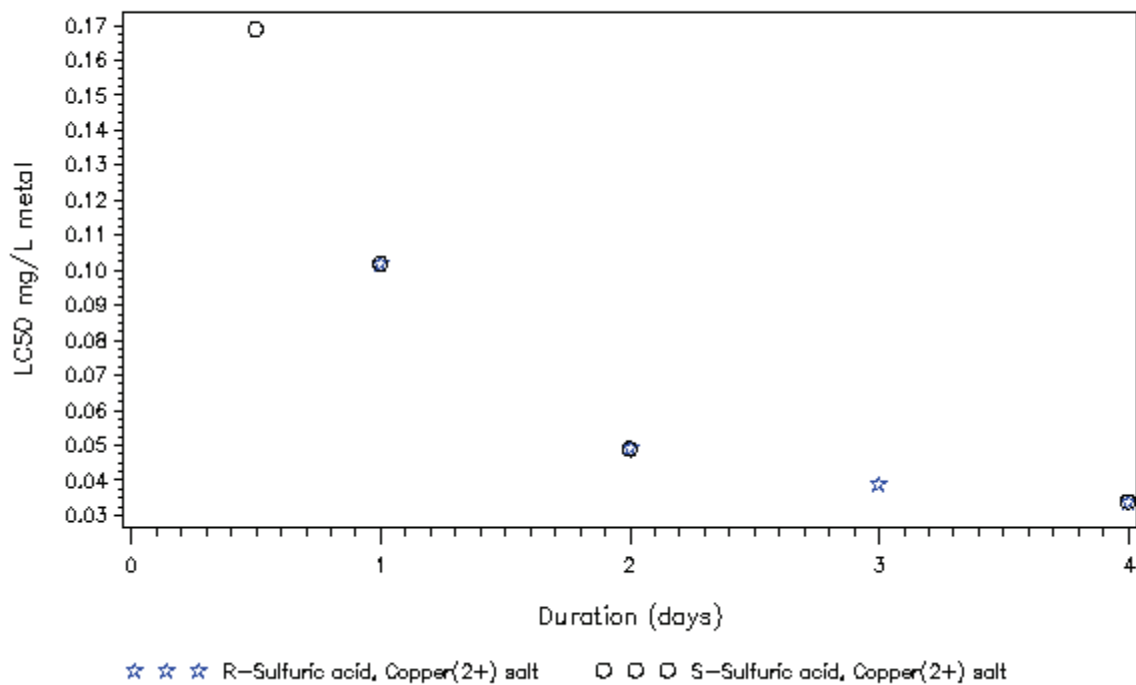


Luxilus chrysocephalus exposed to Copper at T>15C in very hard water

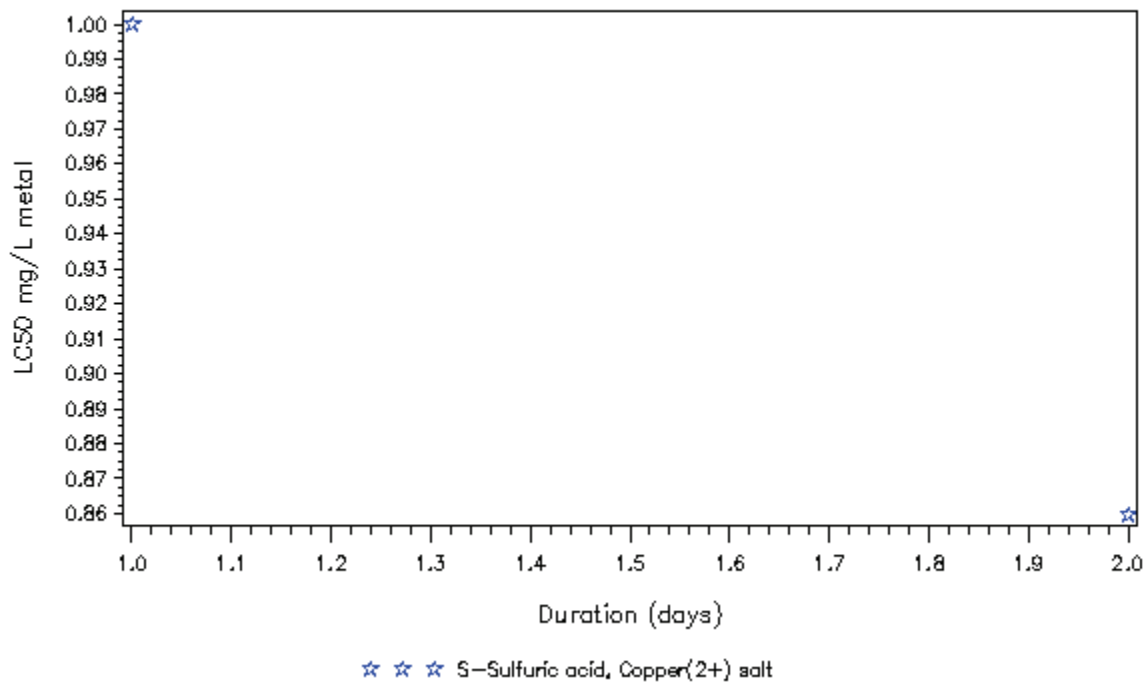


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lymnaea acuminata exposed to Copper at T>15C in very hard water

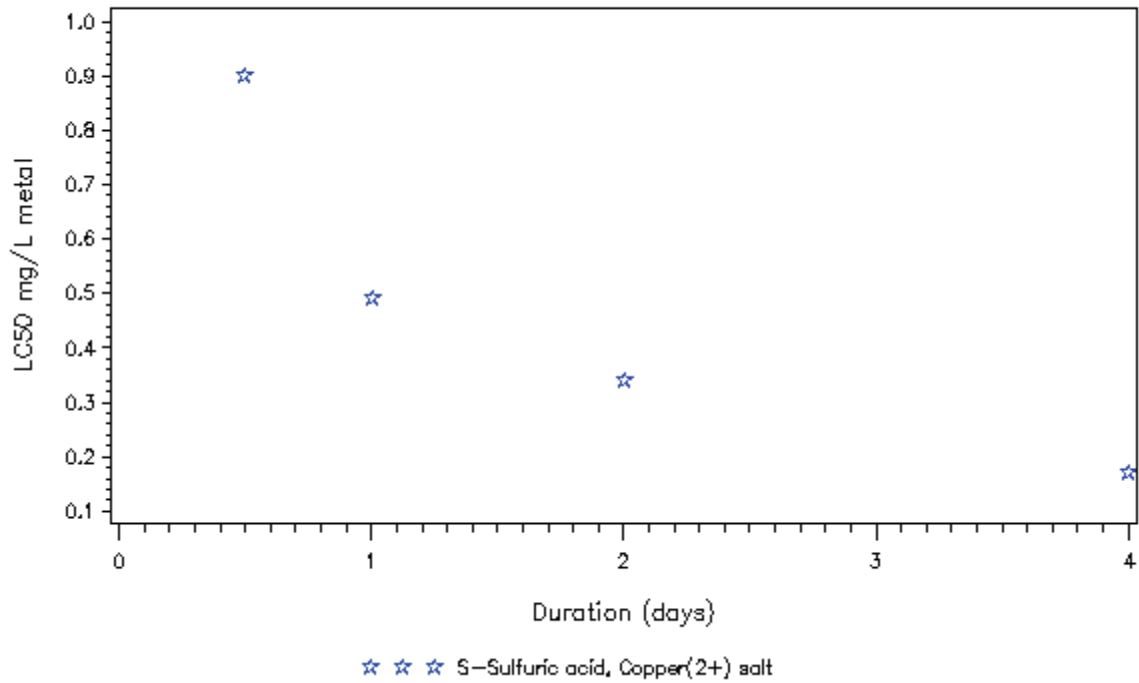


Lymnaea emarginata angulata exposed to Copper at T>15C in hard water

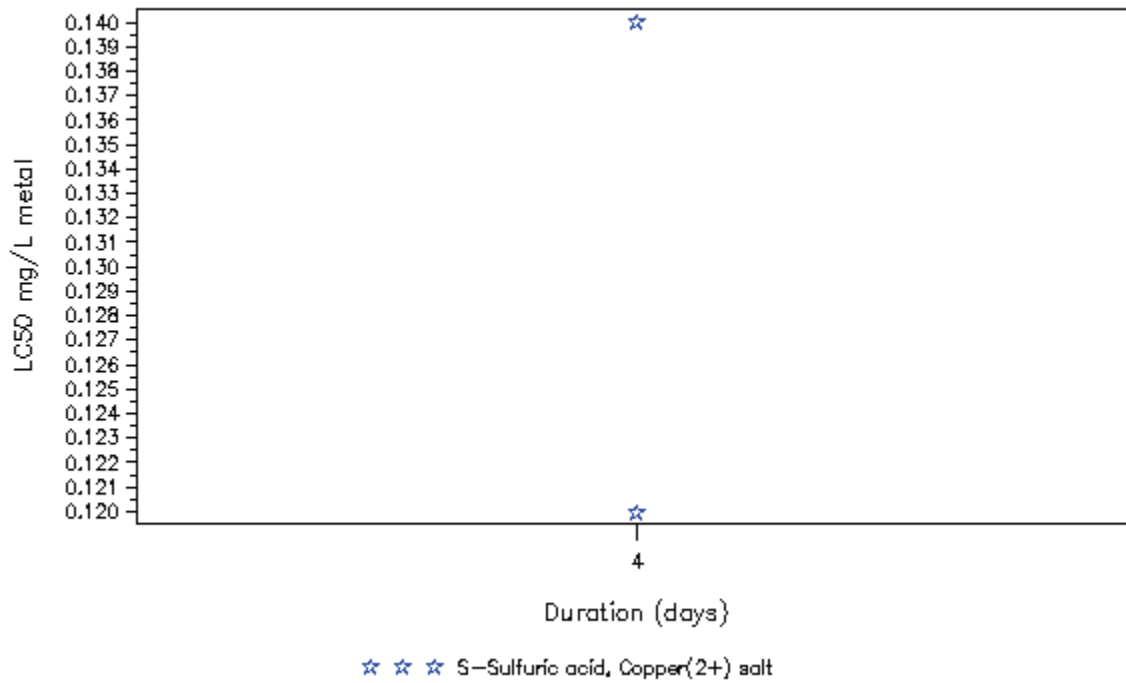


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lymnaea luteola exposed to Copper at T>15C in very hard water

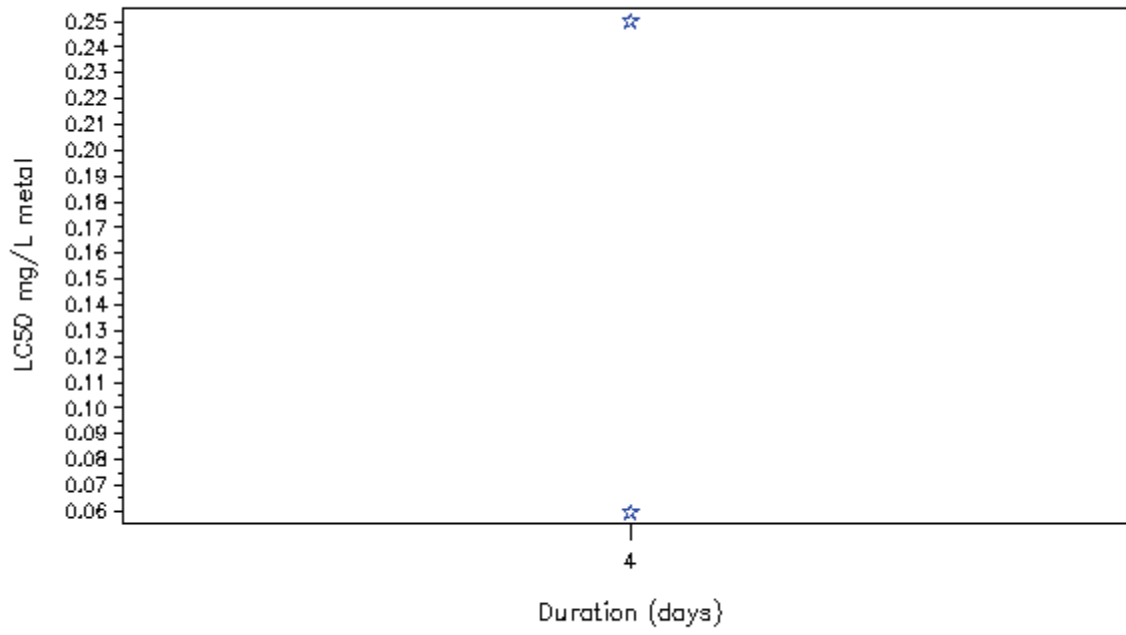


Melanotaenia nigra exposed to Copper at T>15C in soft water



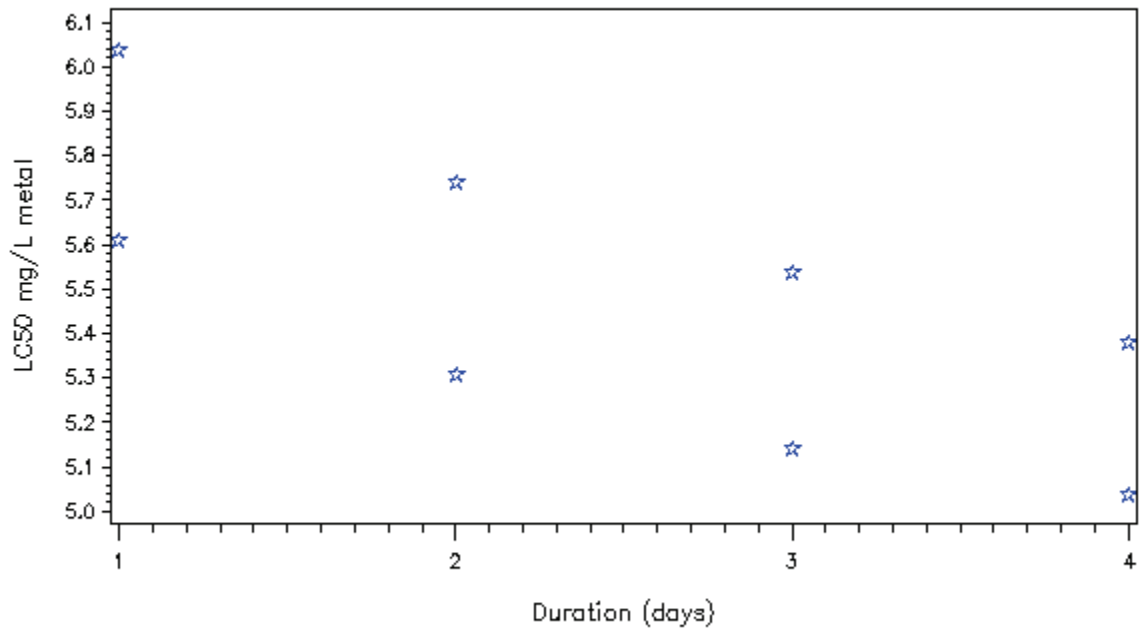
S – Static Test, F – Flowthrough Test, R –Renewal Test

Melanotaenia splendida inornat exposed to Copper at T>15C in very soft water



☆☆☆ S-Sulfuric acid, Copper(2+) salt

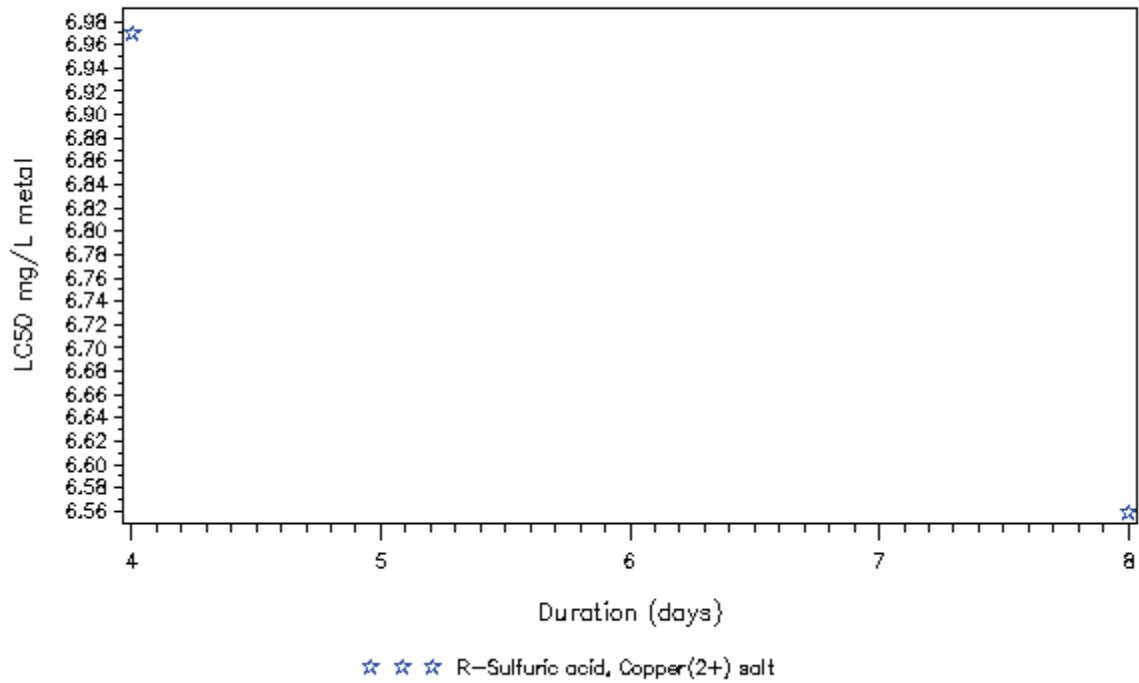
Microhyla ornata exposed to Copper at T>15C in hard water



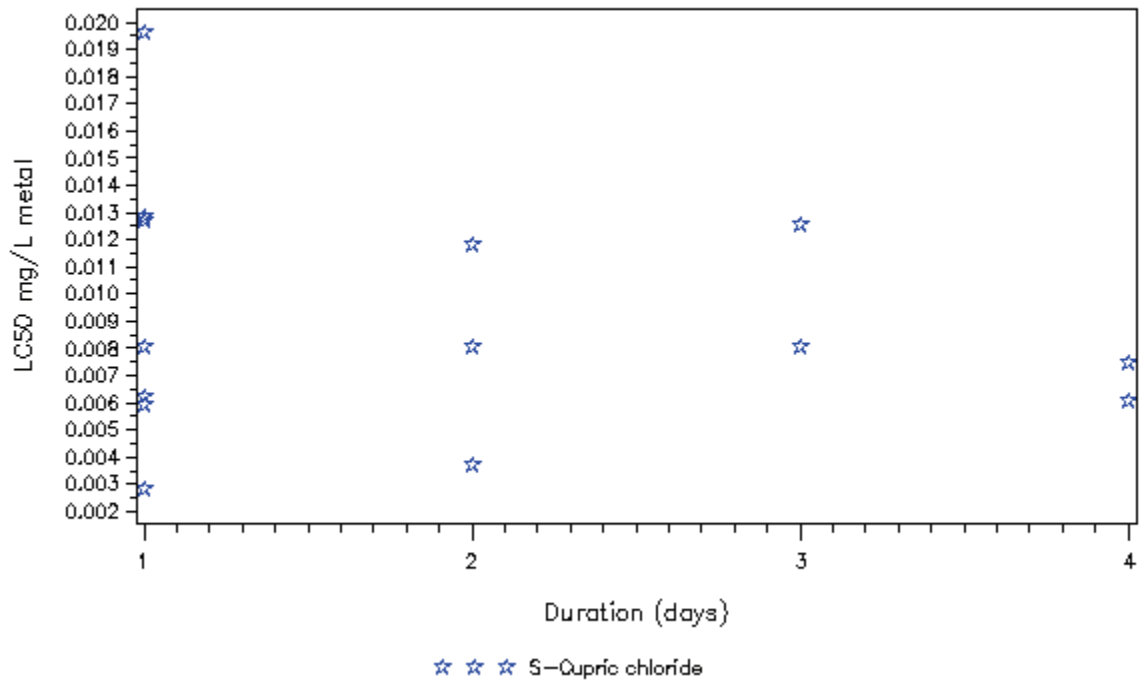
☆☆☆ R-Sulfuric acid, Copper(2+) salt

S – Static Test, F – Flowthrough Test, R –Renewal Test

Micropterus salmoides exposed to Copper at T>15C in moderate water

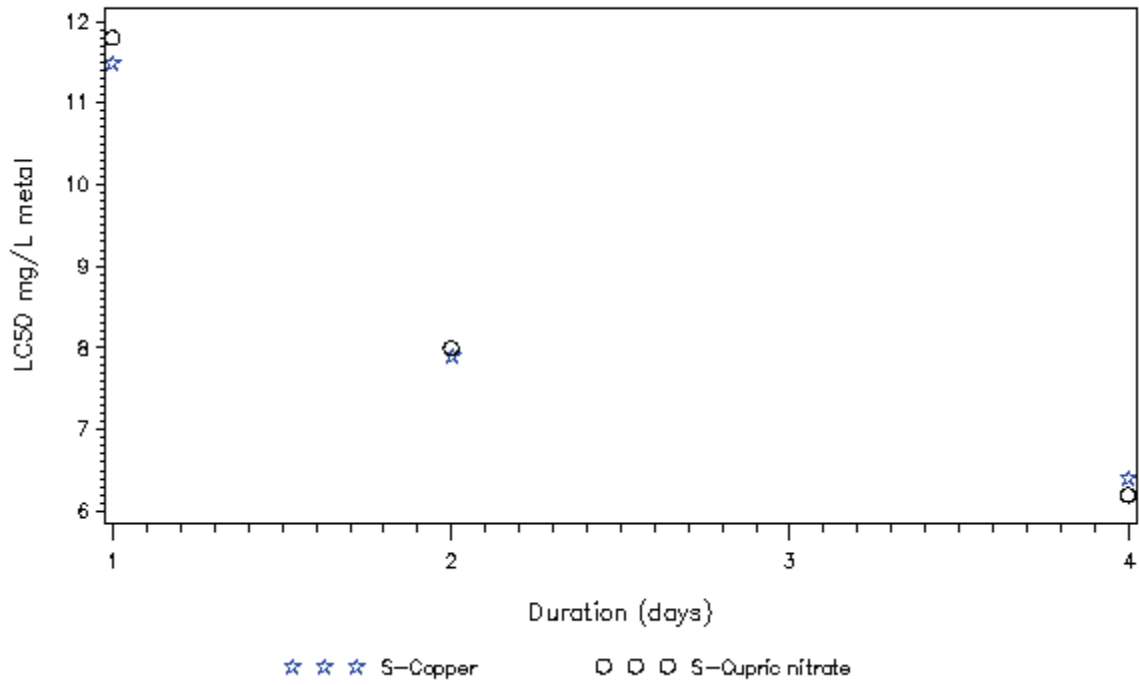


Moina irrasa exposed to Copper at T>15C in very soft water

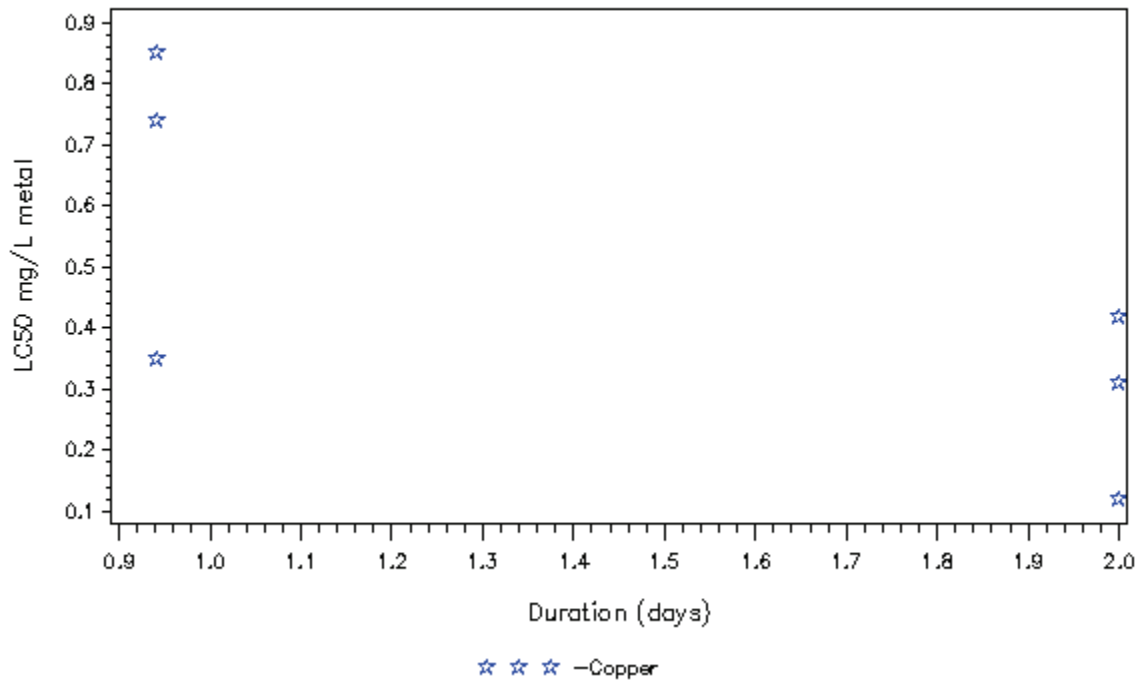


S – Static Test, F – Flowthrough Test, R –Renewal Test

Morone americana exposed to Copper at T>15C in soft water

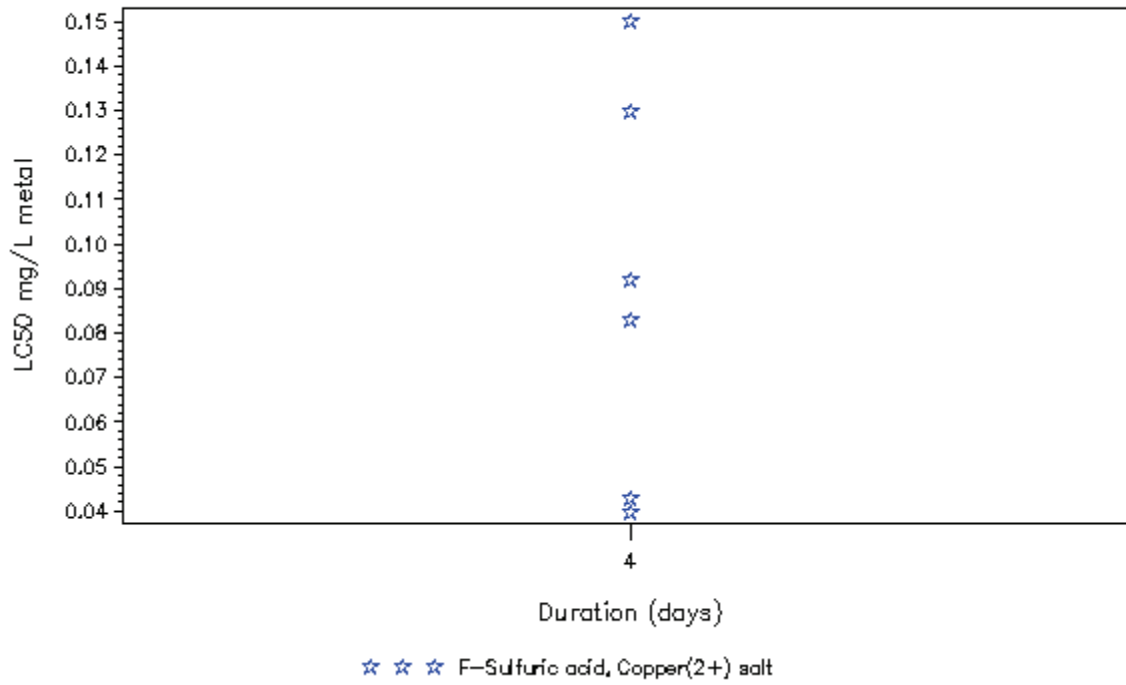


Morone saxatilis exposed to Copper at T>15C in hard water

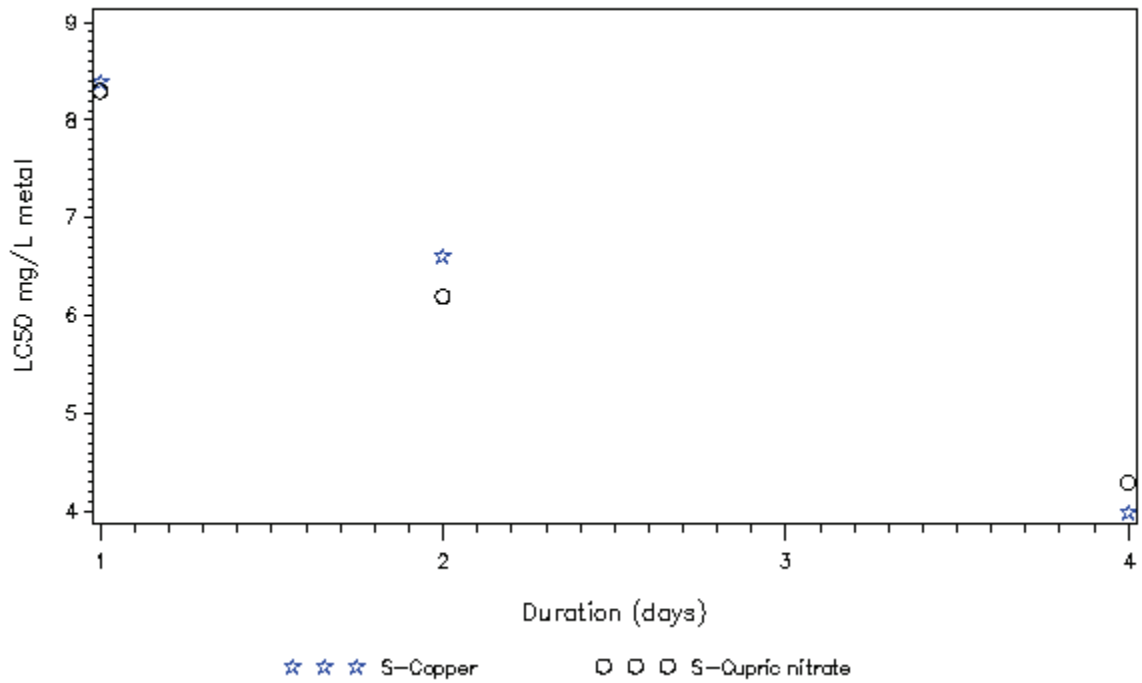


S – Static Test, F – Flowthrough Test, R –Renewal Test

Morone saxatilis exposed to Copper at T>15C in moderate water

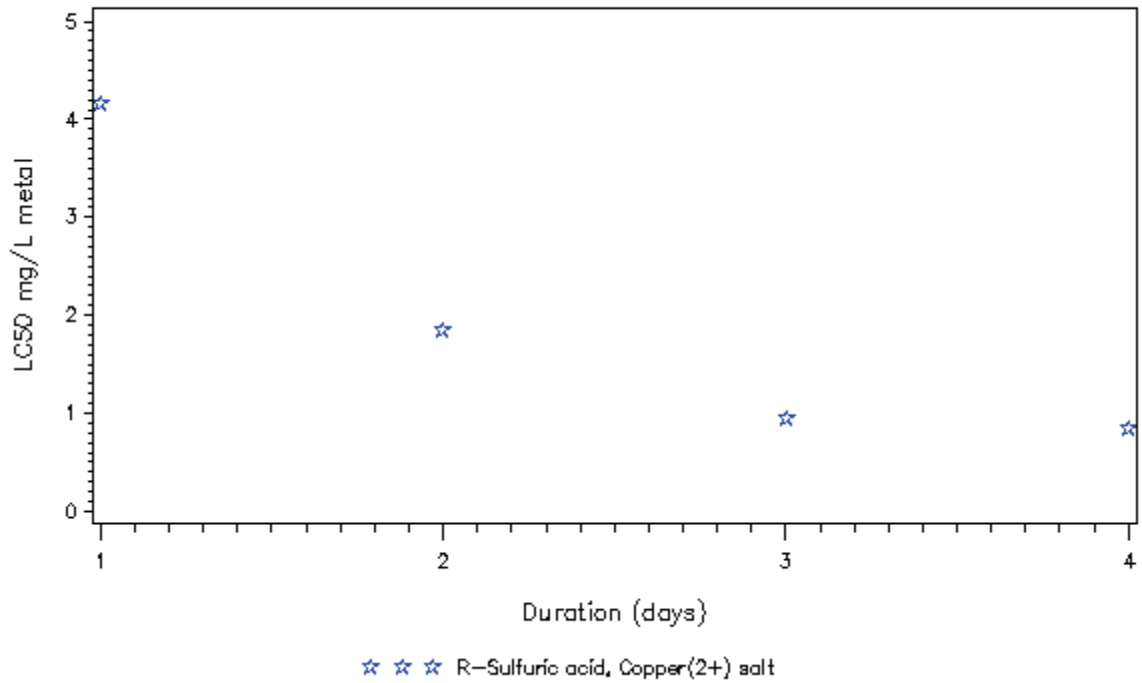


Morone saxatilis exposed to Copper at T>15C in soft water

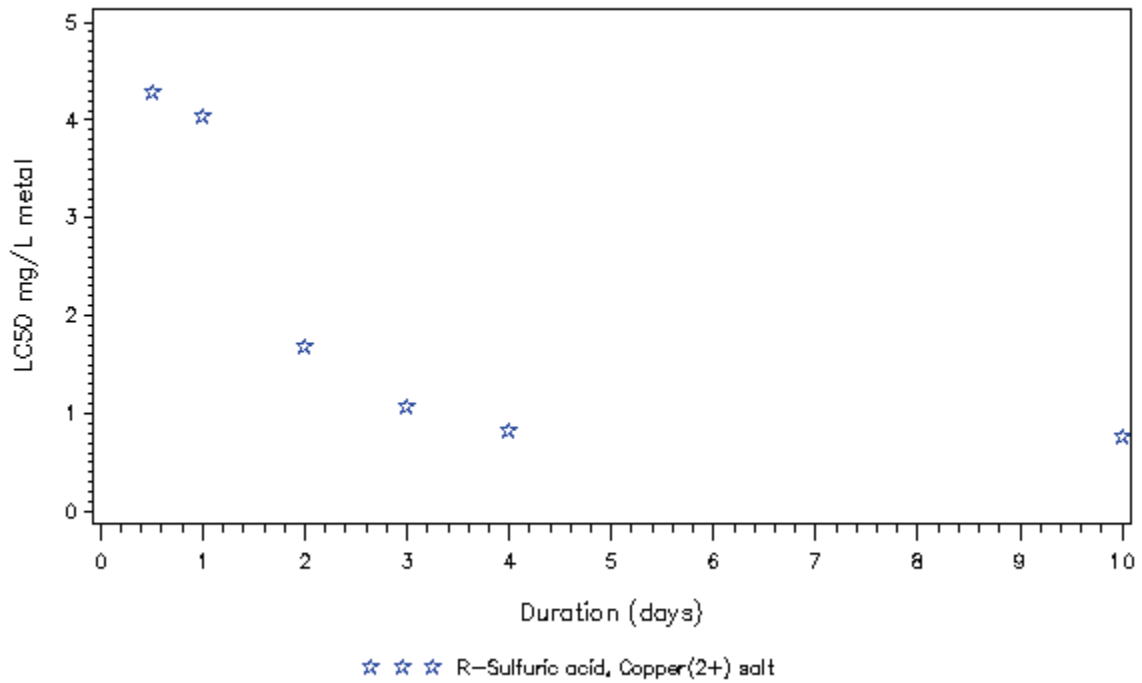


S – Static Test, F – Flowthrough Test, R –Renewal Test

Mystus bleekeri exposed to Copper at T>15C in hard water

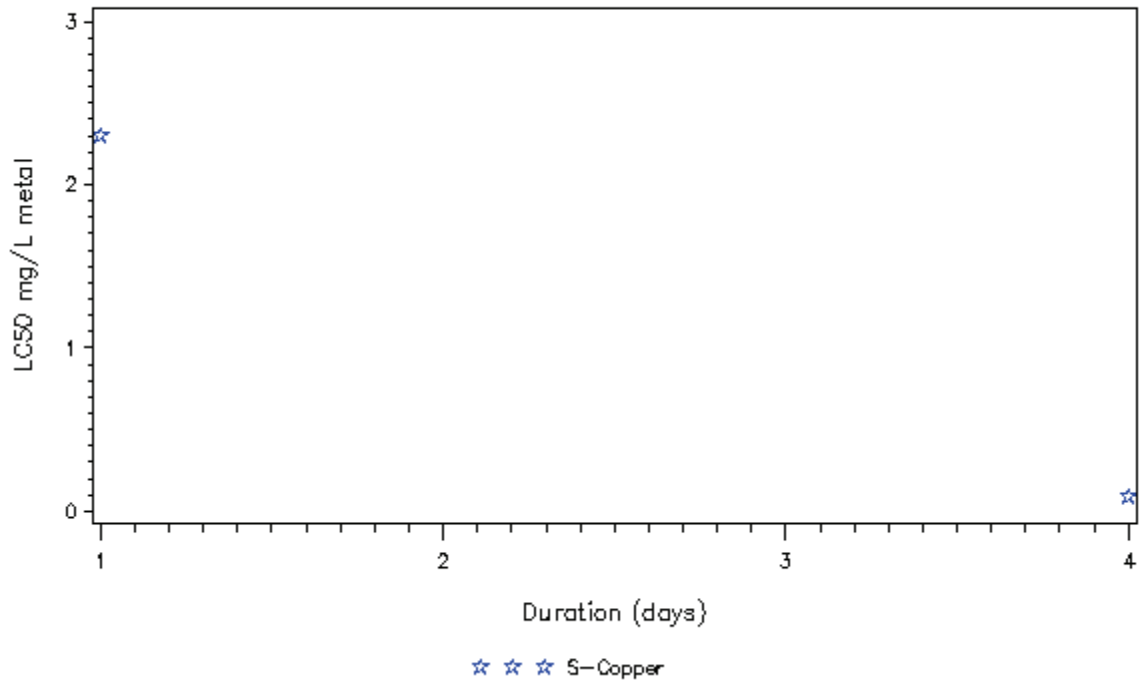


Mystus bleekeri exposed to Copper at T>15C in very hard water

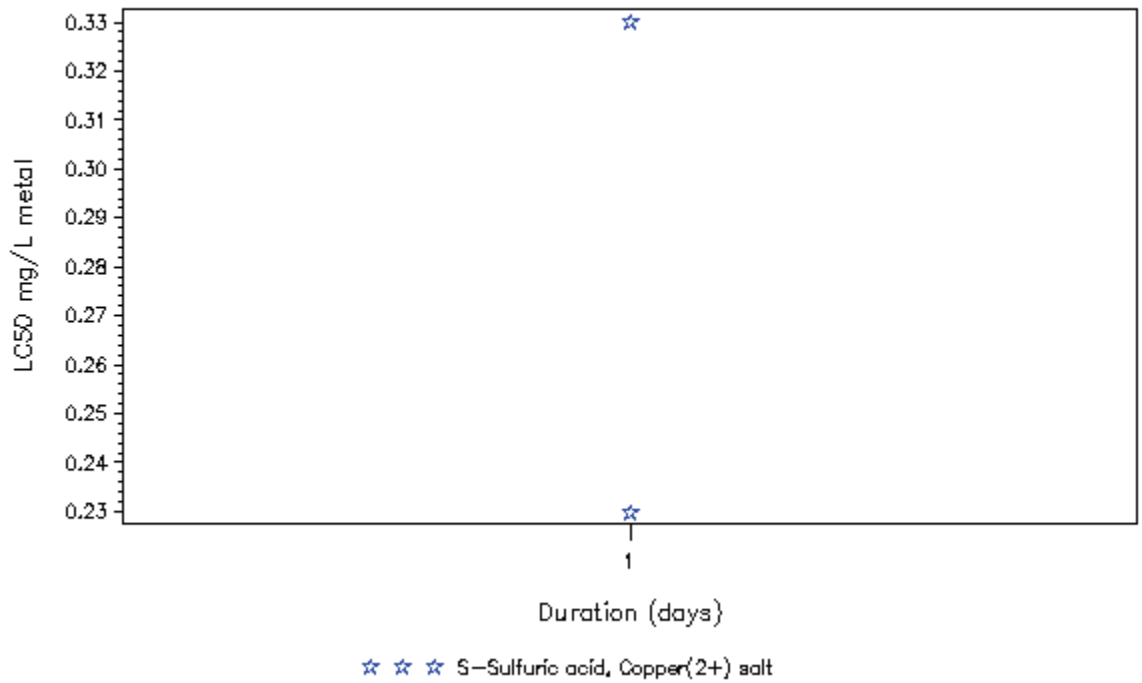


S – Static Test, F – Flowthrough Test, R –Renewal Test

Nais exposed to Copper at T>15C in soft water

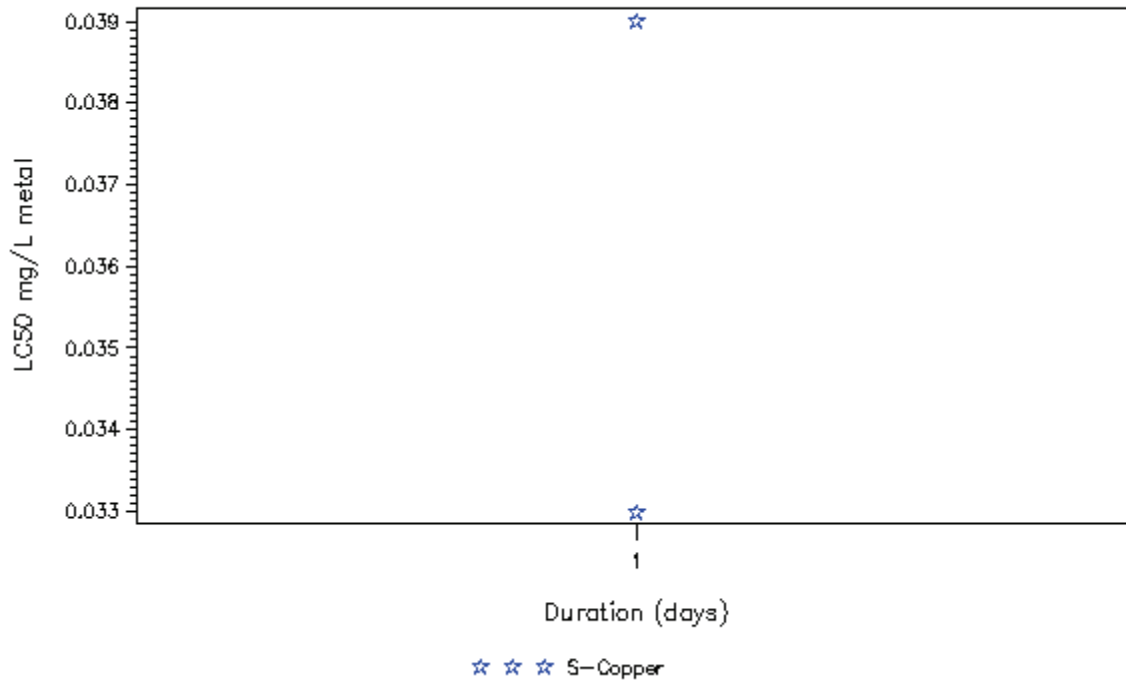


Notemigonus crysoleucas exposed to Copper at T<=15C in soft water

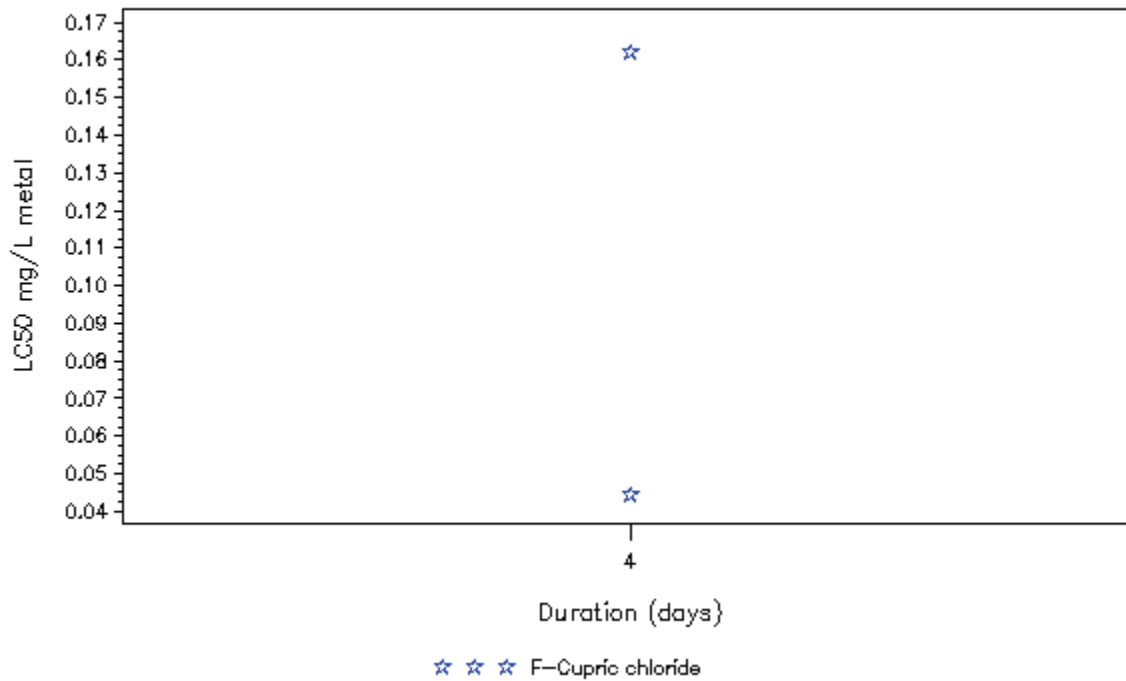


S – Static Test, F – Flowthrough Test, R –Renewal Test

Nothobranchius guentheri exposed to Copper at T>15C in soft water

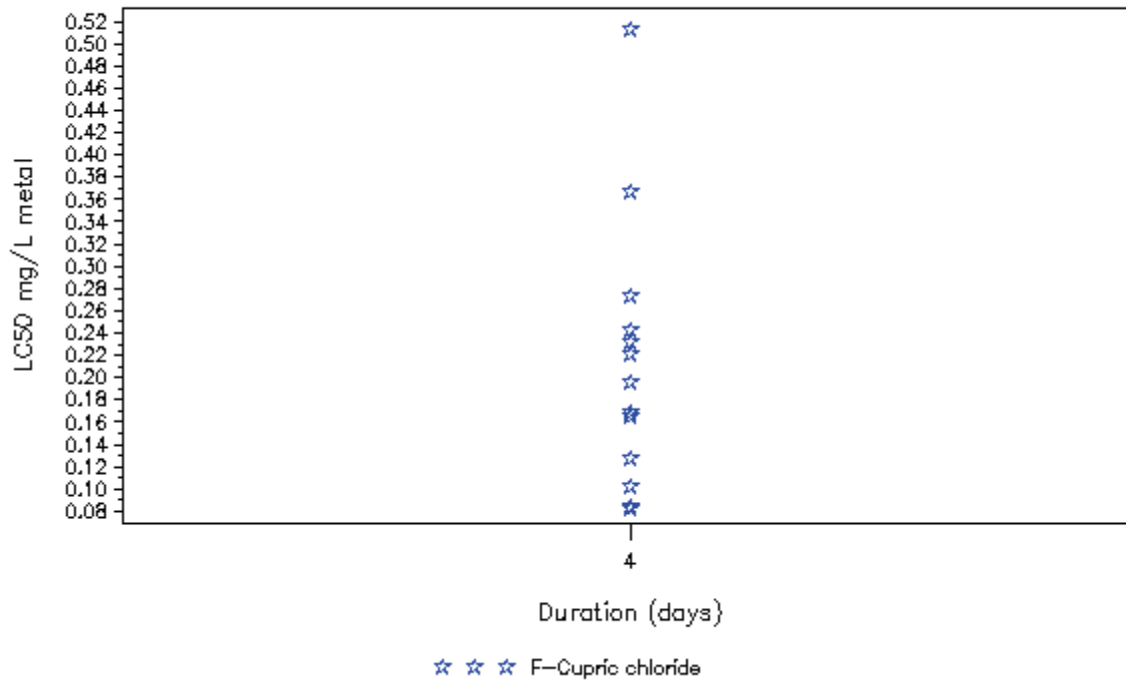


Oncorhynchus clarki exposed to Copper at T<=15C in moderate water

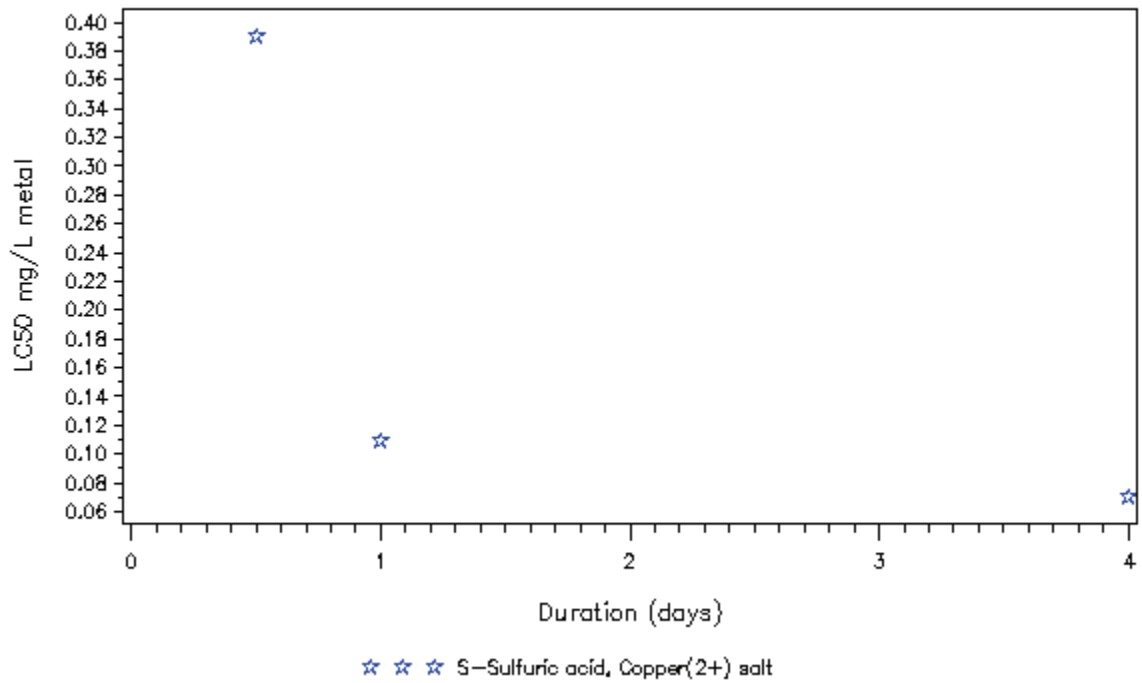


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus clarki exposed to Copper at T<=15C in very hard water

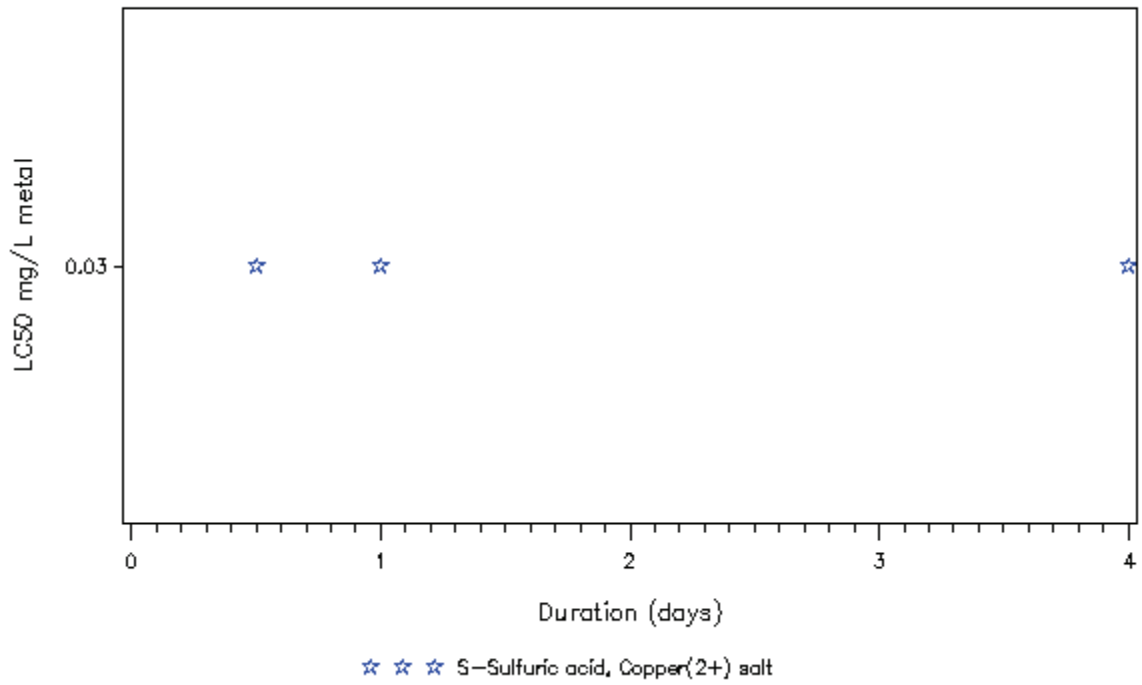


Oncorhynchus clarki henshawi exposed to Copper at T<=15C in hard water

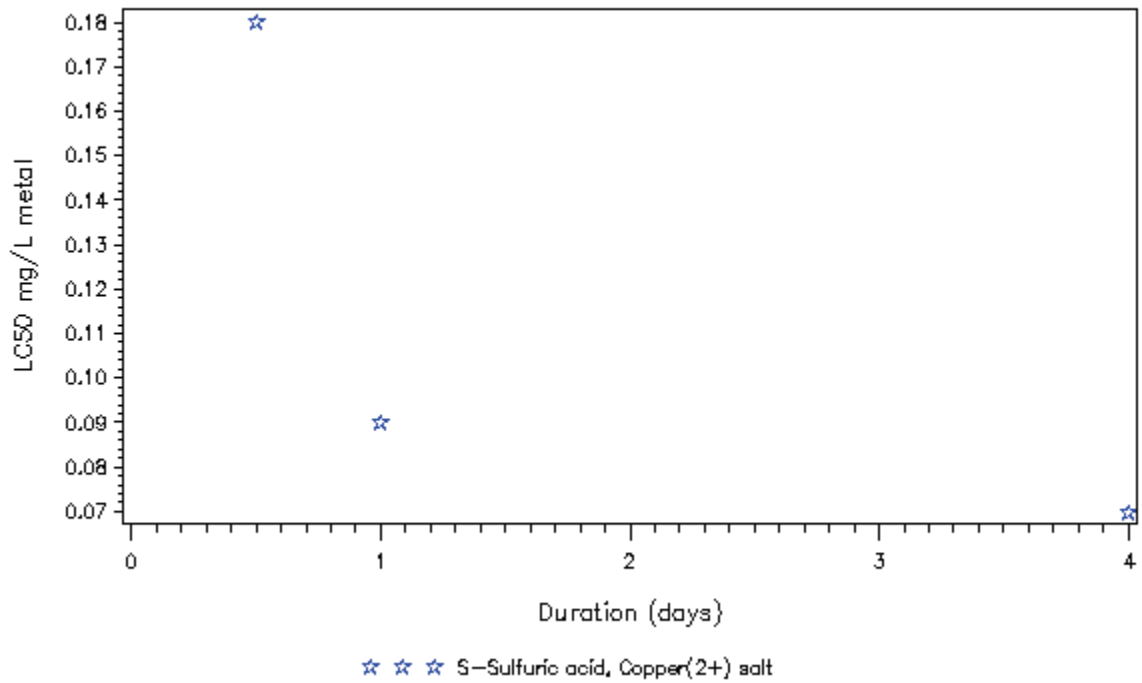


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus clarkii stomias exposed to Copper at T<=15C in hard water

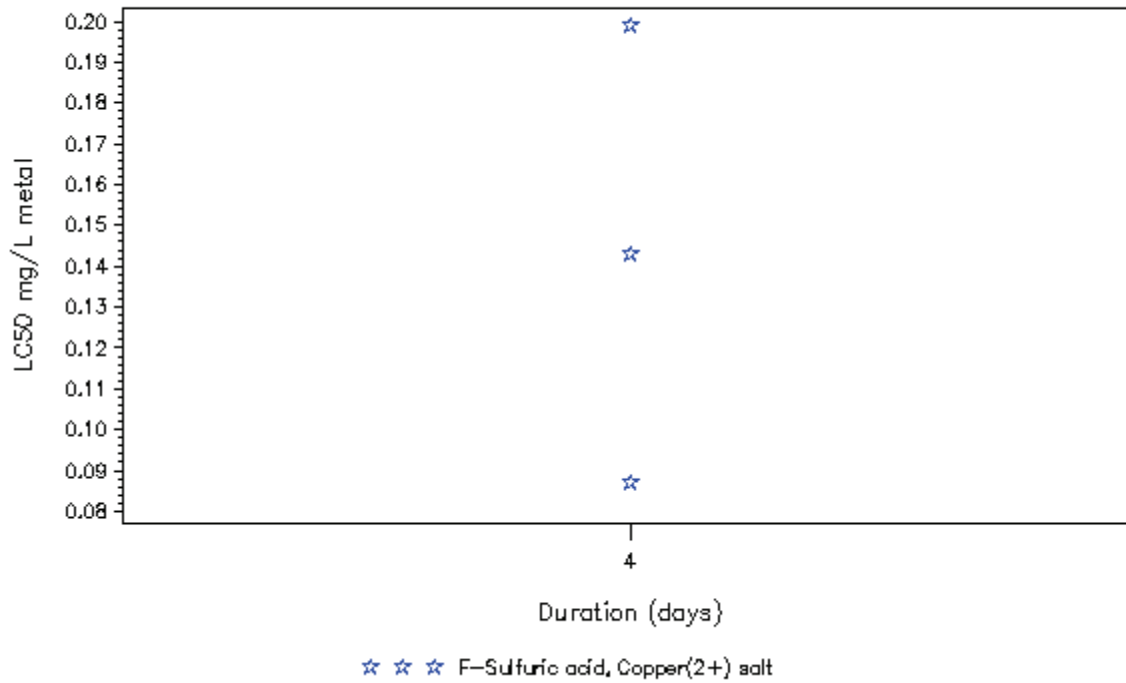


Oncorhynchus gilae apache exposed to Copper at T<=15C in hard water

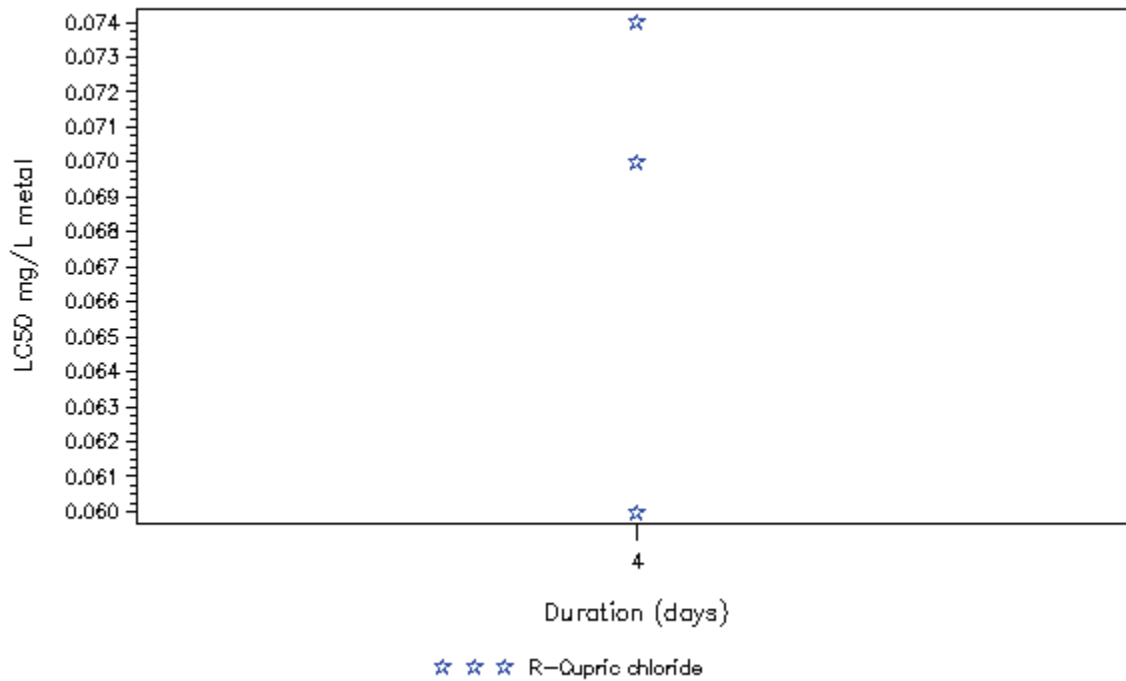


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus gorbuscha exposed to Copper at T<=15C in moderate water

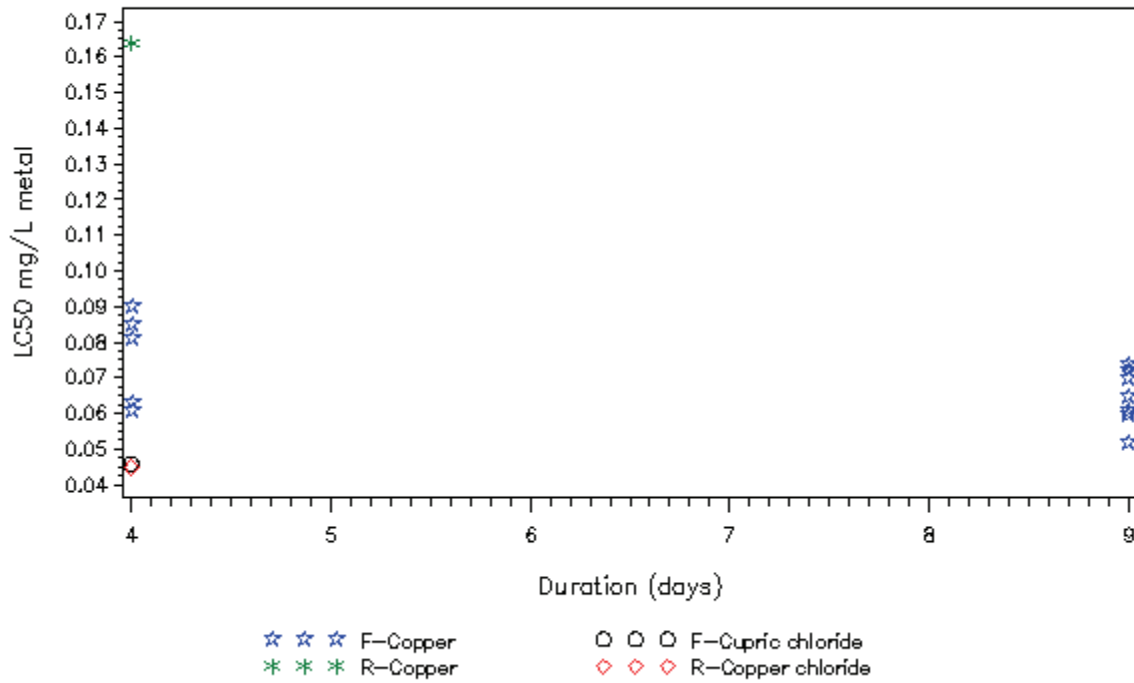


Oncorhynchus kisutch exposed to Copper at T<=15C in moderate water

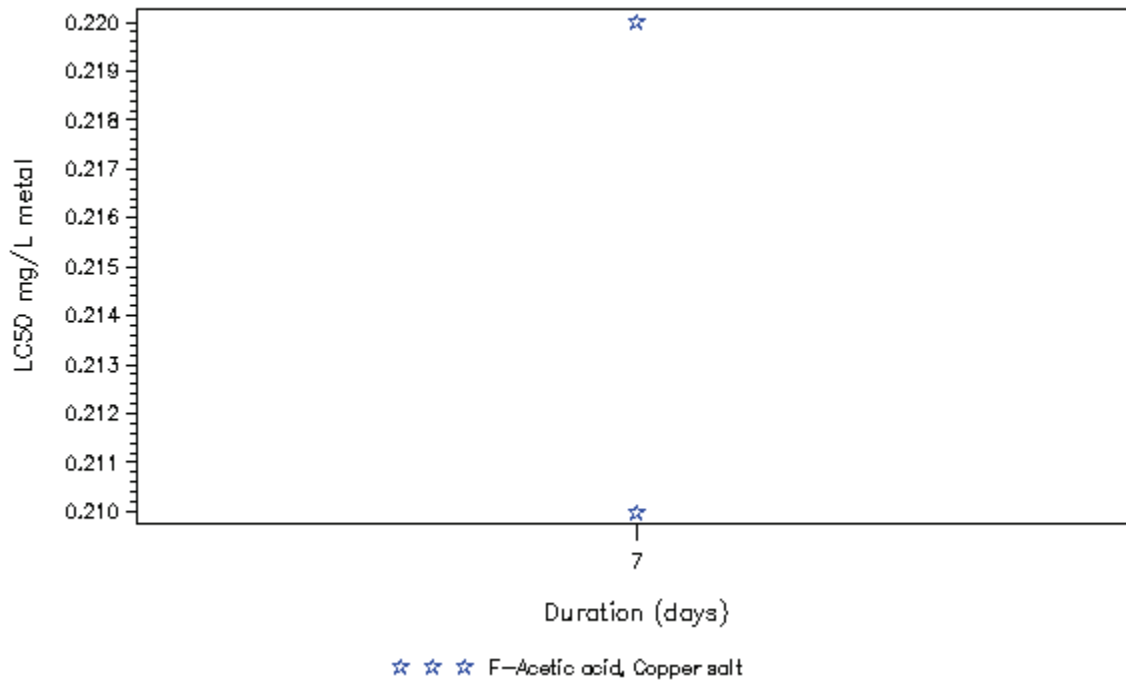


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus kisutch exposed to Copper at T<=15C in soft water

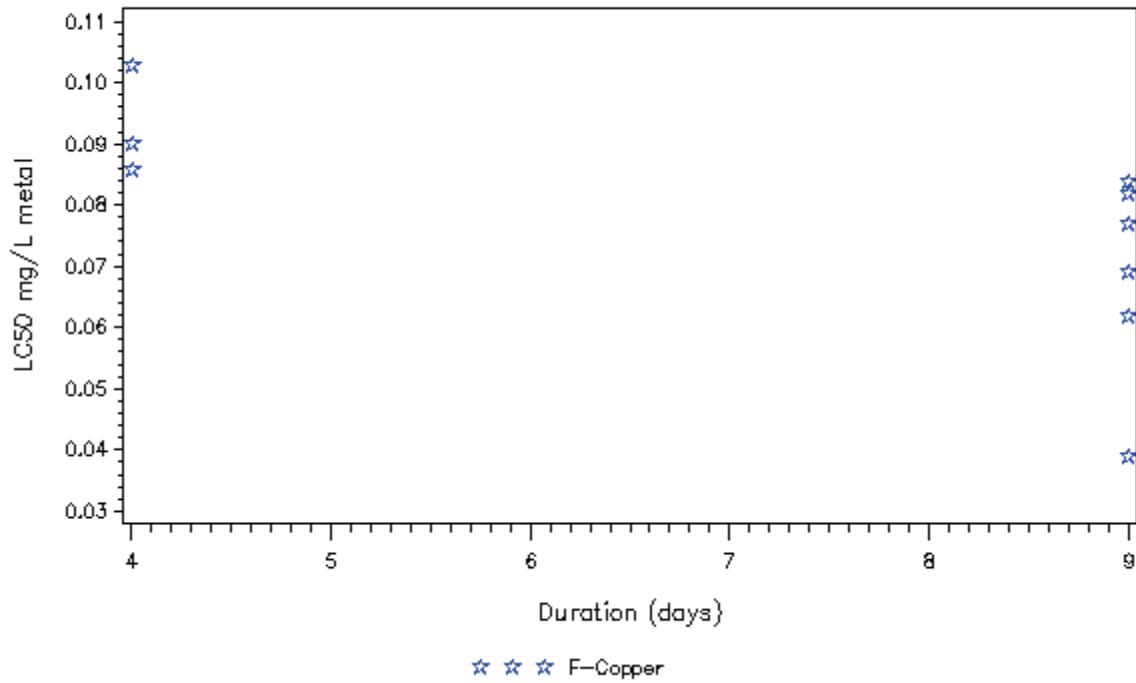


Oncorhynchus kisutch exposed to Copper at T<=15C in very hard water

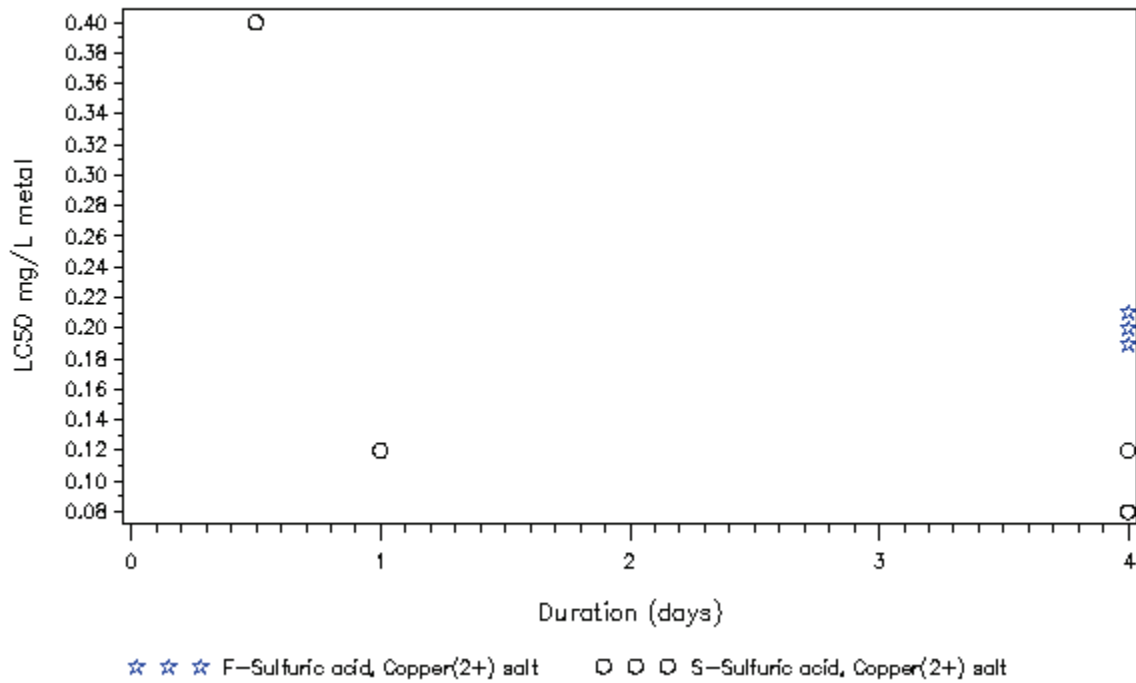


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus kisutch exposed to Copper at T>15C in soft water

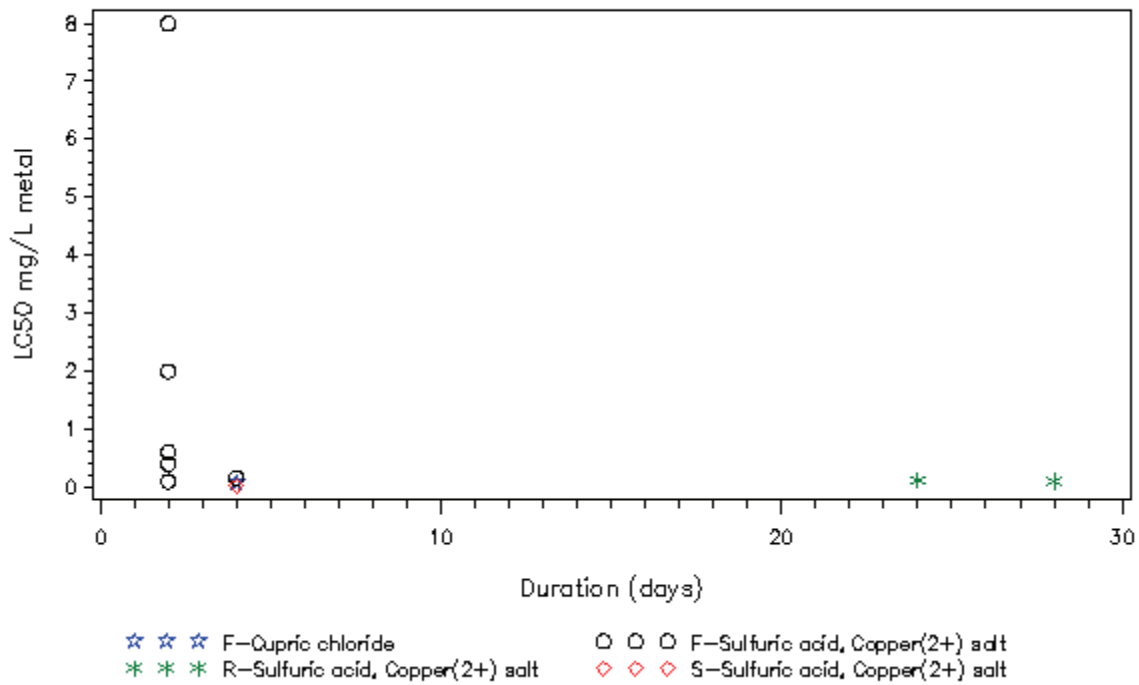


Oncorhynchus mykiss exposed to Copper at T<=15C in hard water

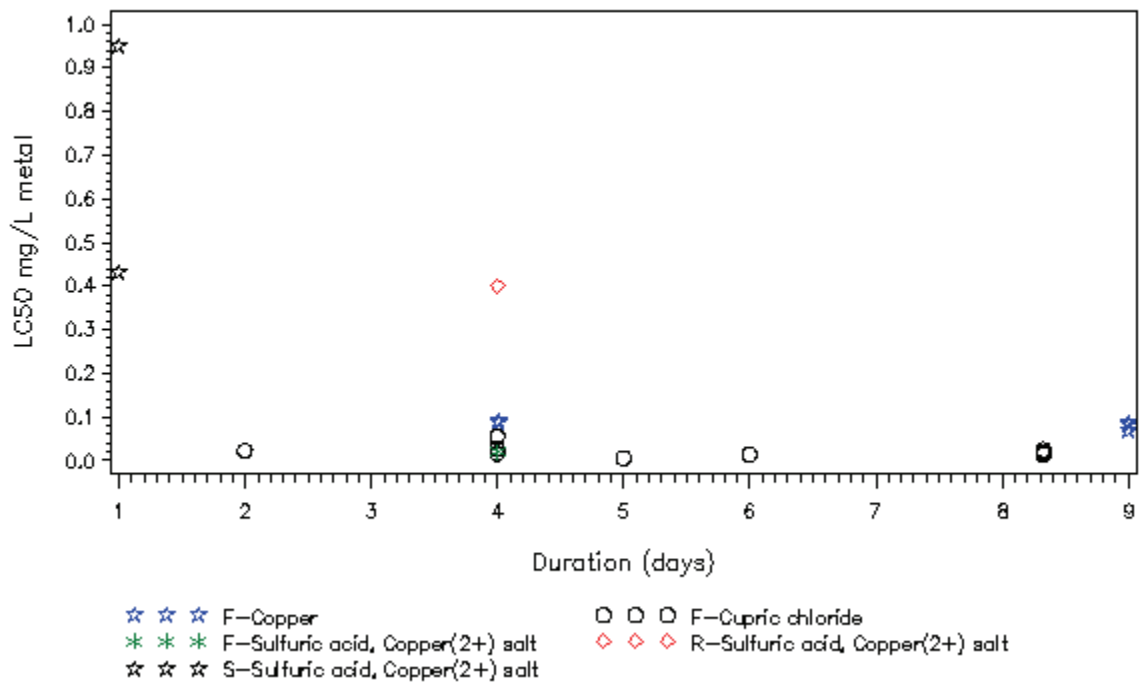


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Copper at T<=15C in moderate water

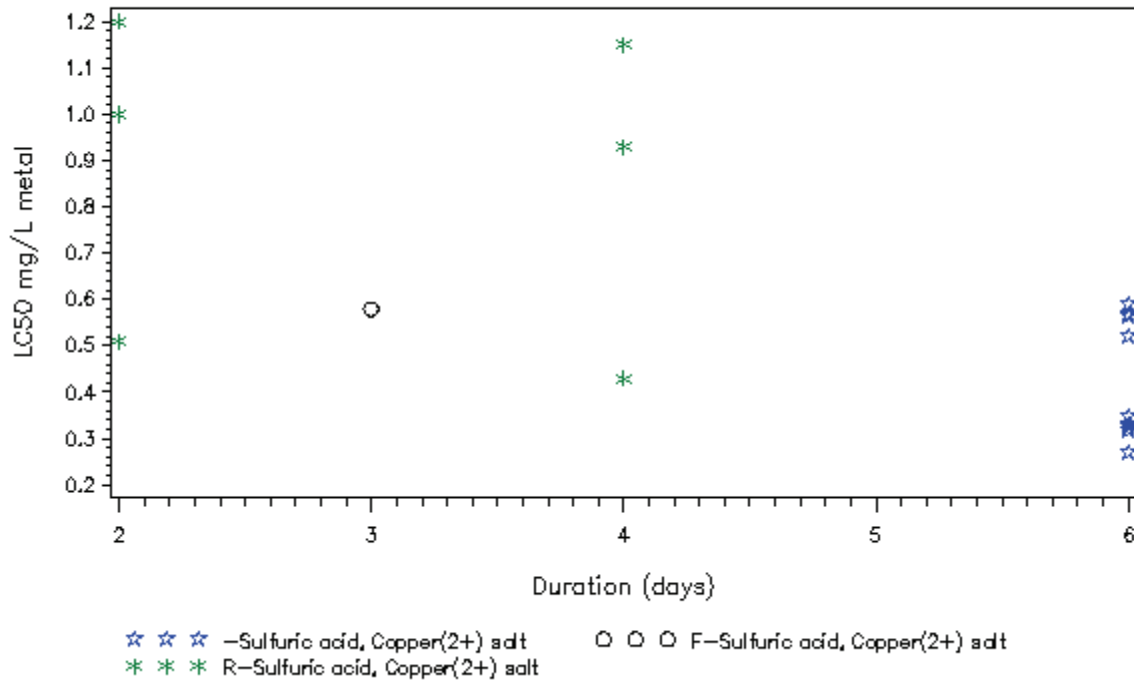


Oncorhynchus mykiss exposed to Copper at T<=15C in soft water

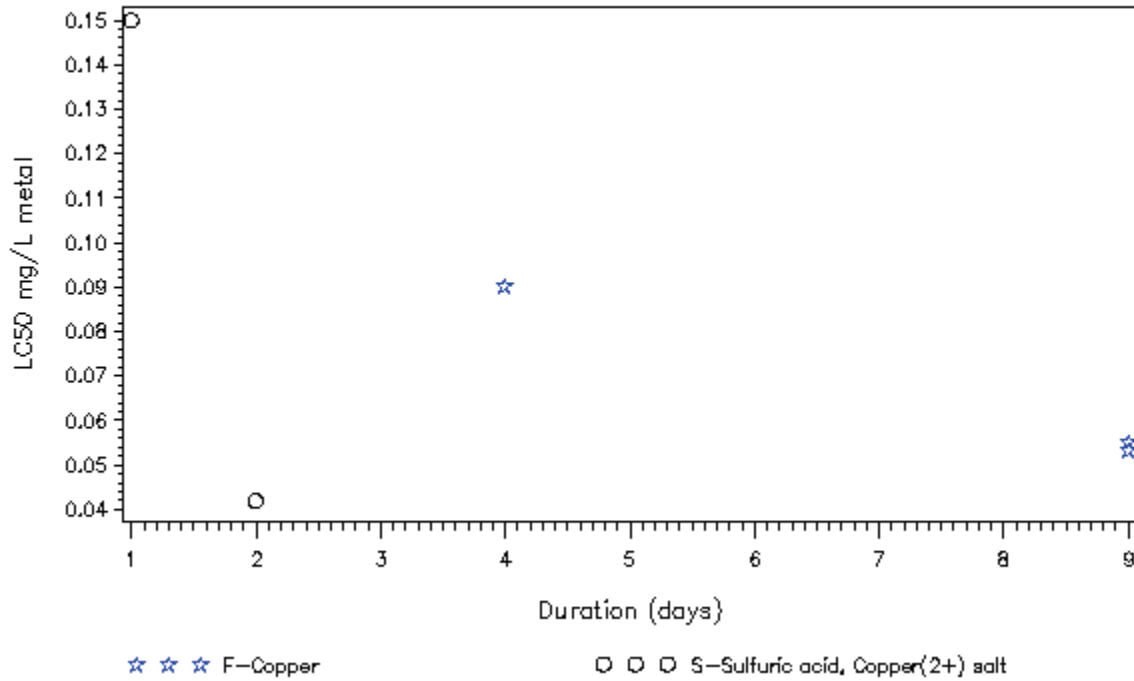


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Copper at T<=15C in very hard water

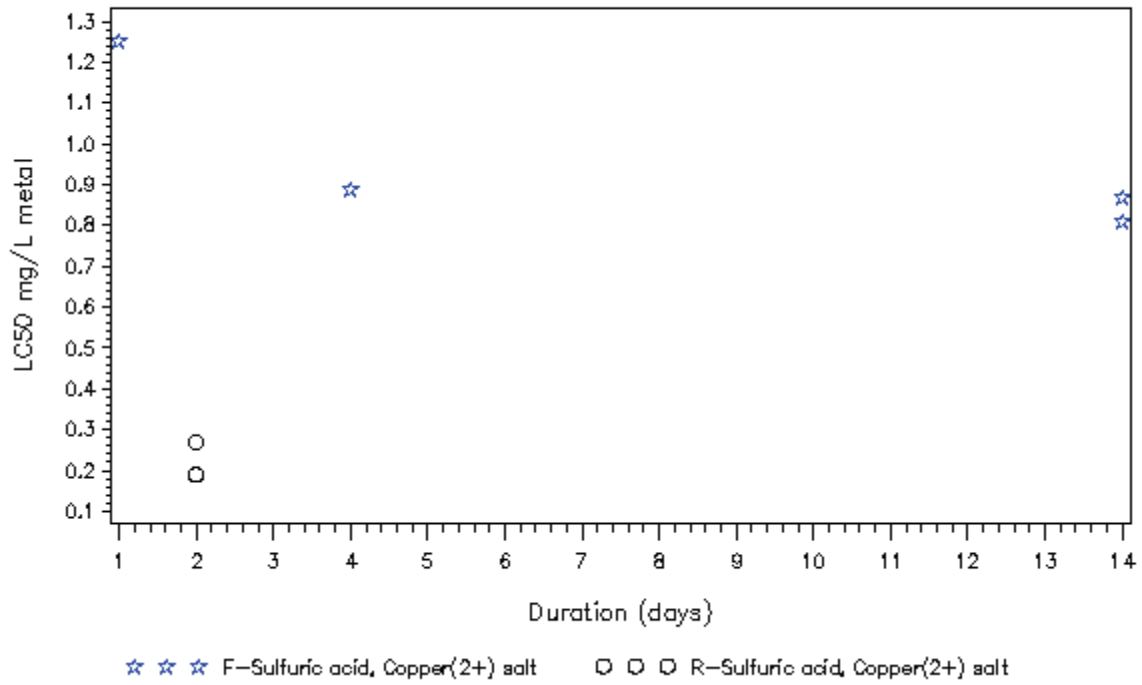


Oncorhynchus mykiss exposed to Copper at T>15C in soft water

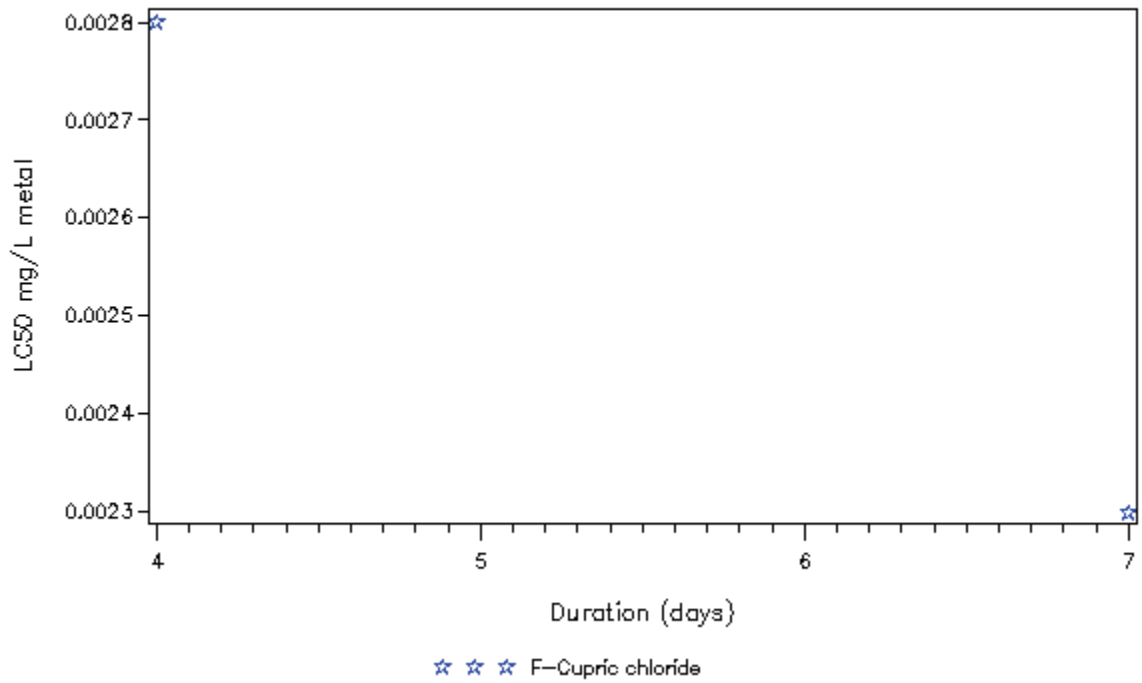


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Copper at T>15C in very hard water

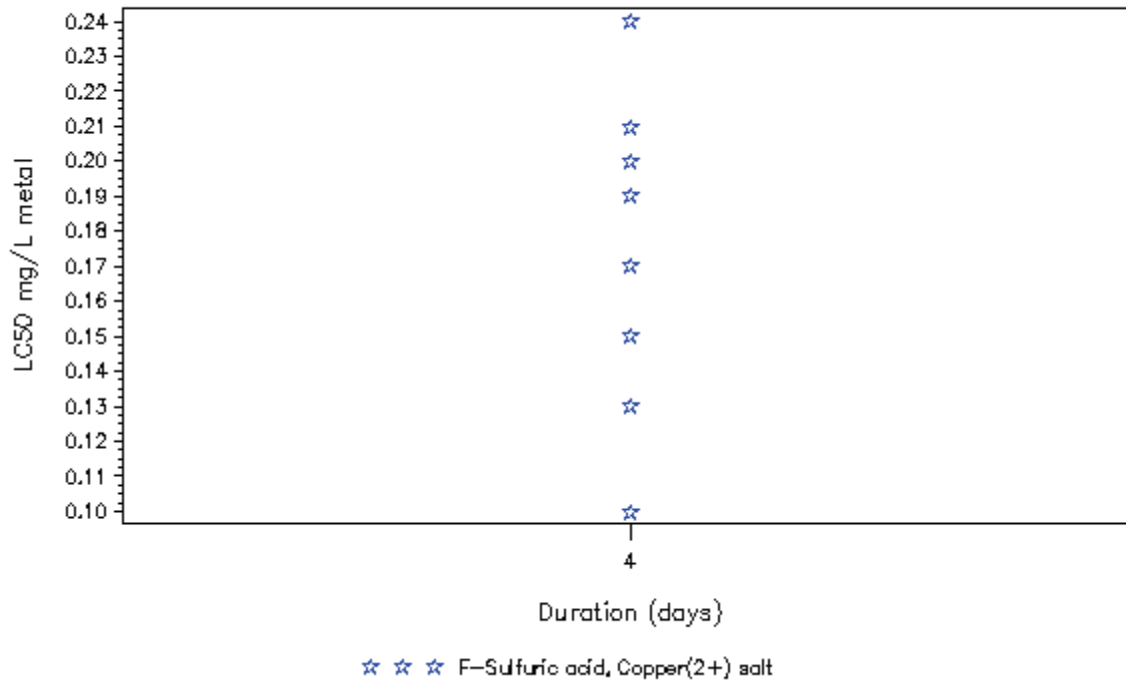


Oncorhynchus mykiss exposed to Copper at T>15C in very soft water

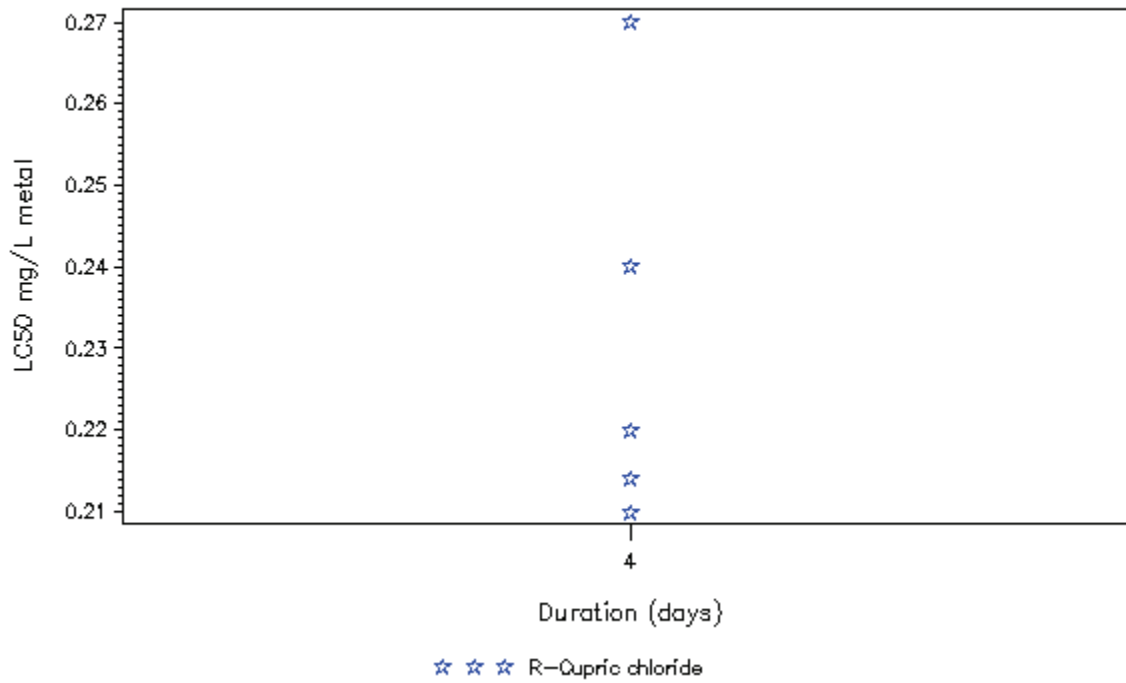


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus nerka exposed to Copper at T<=15C in moderate water

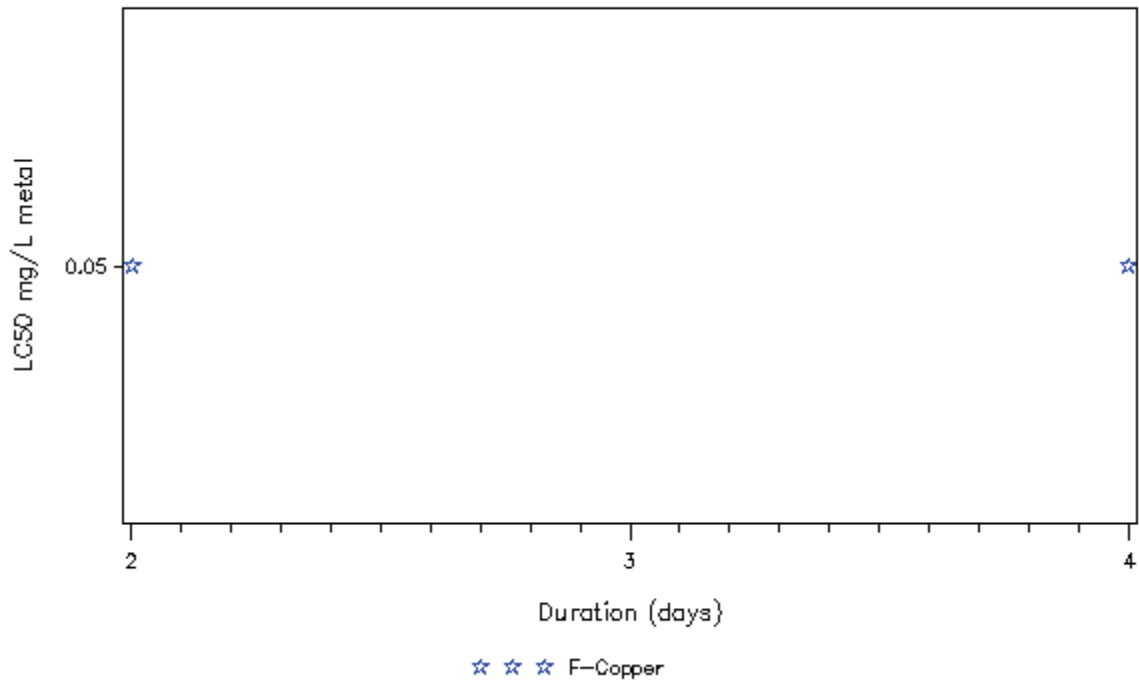


Oncorhynchus nerka exposed to Copper at T<=15C in soft water

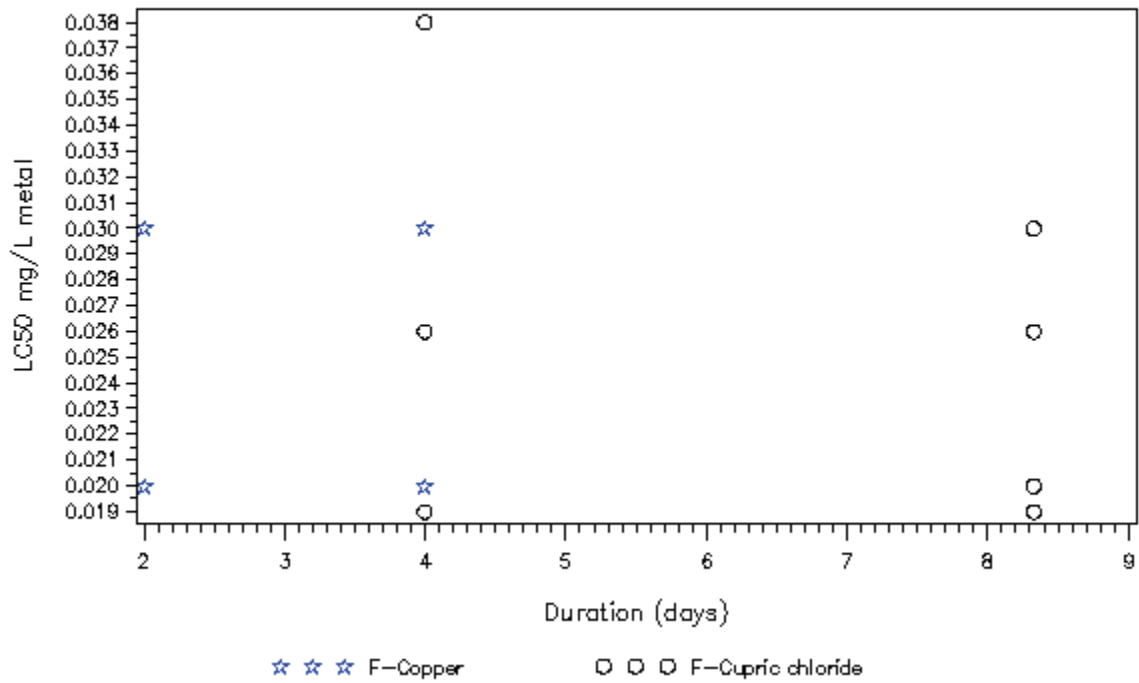


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus tshawytscha exposed to Copper at T<=15C in moderate water

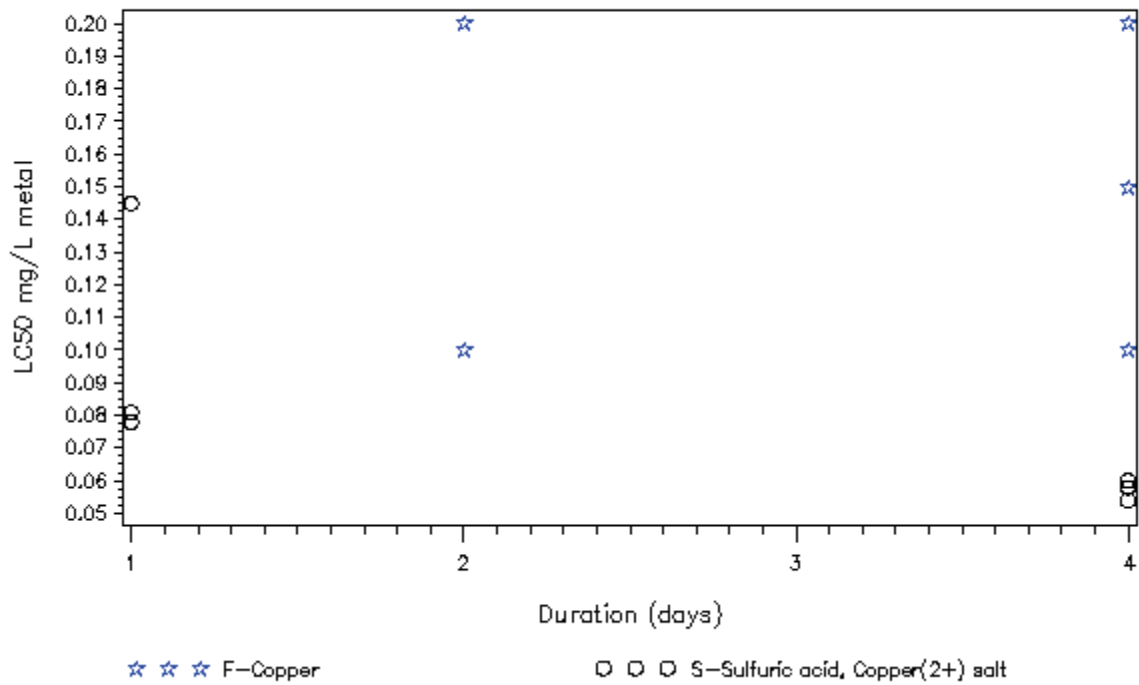


Oncorhynchus tshawytscha exposed to Copper at T<=15C in soft water

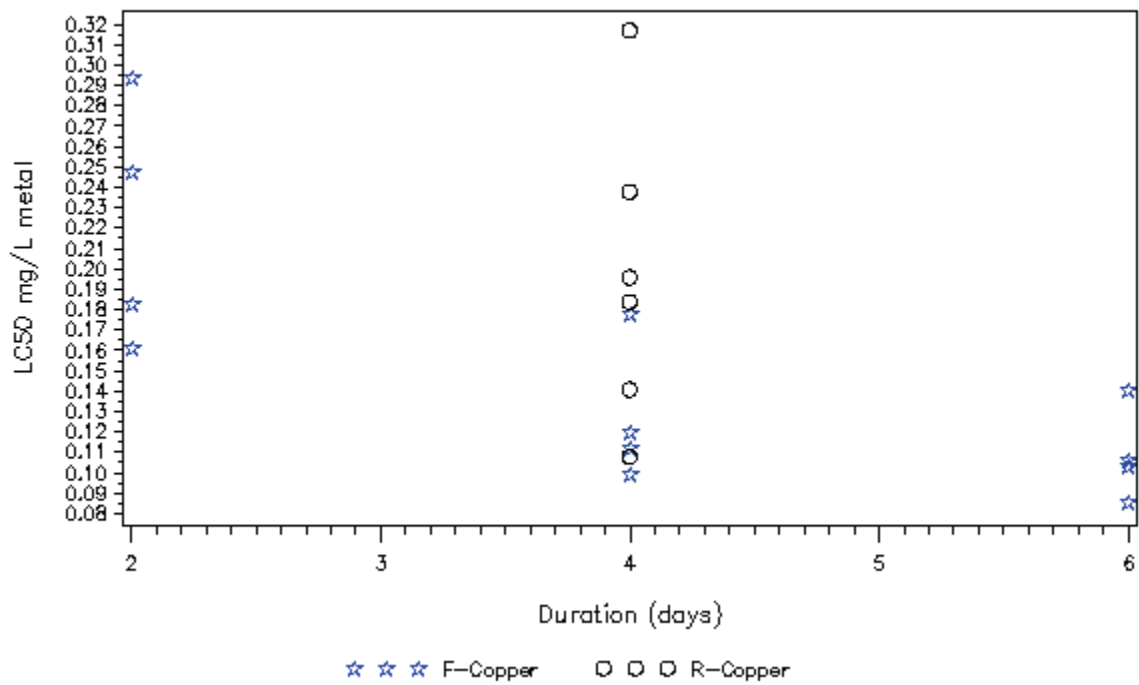


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus tshawytscha exposed to Copper at T<=15C in very hard water

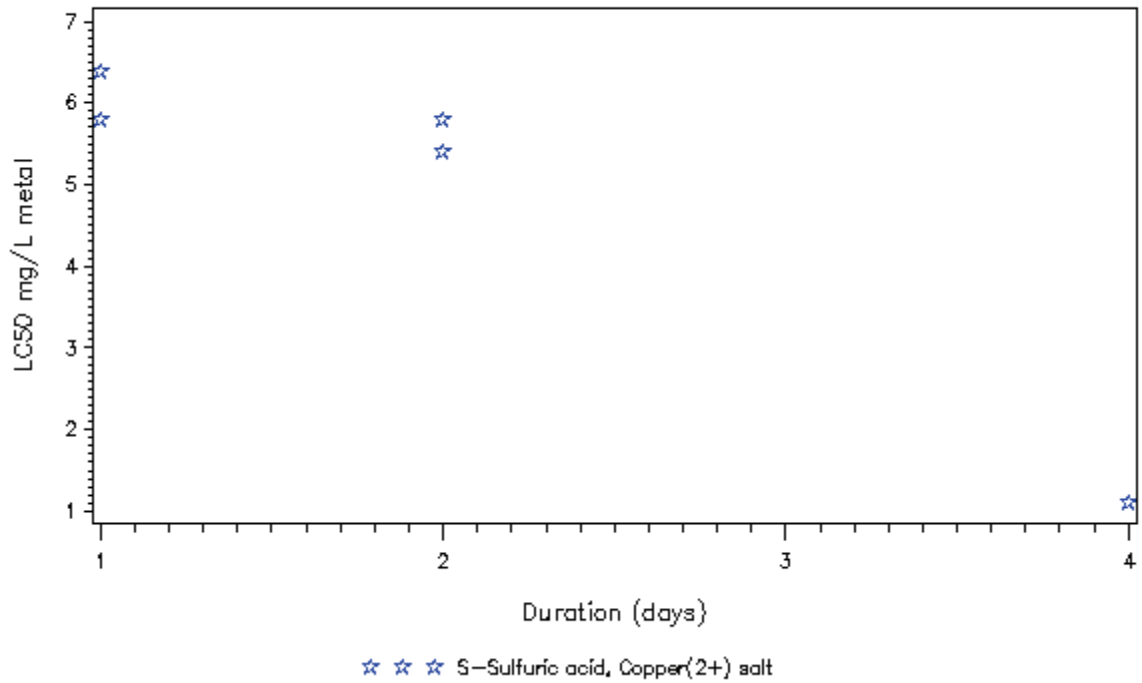


Paratya australiensis exposed to Copper at T<=15C in very soft water

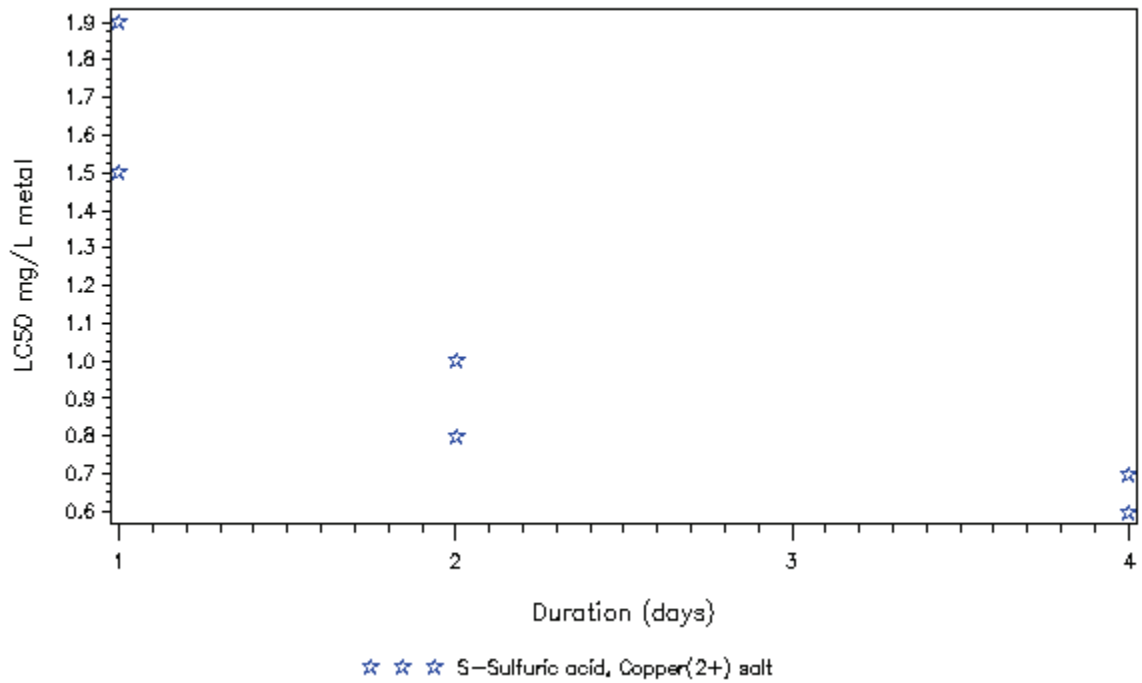


S – Static Test, F – Flowthrough Test, R –Renewal Test

Philodina acuticornis exposed to Copper at T>15C in moderate water

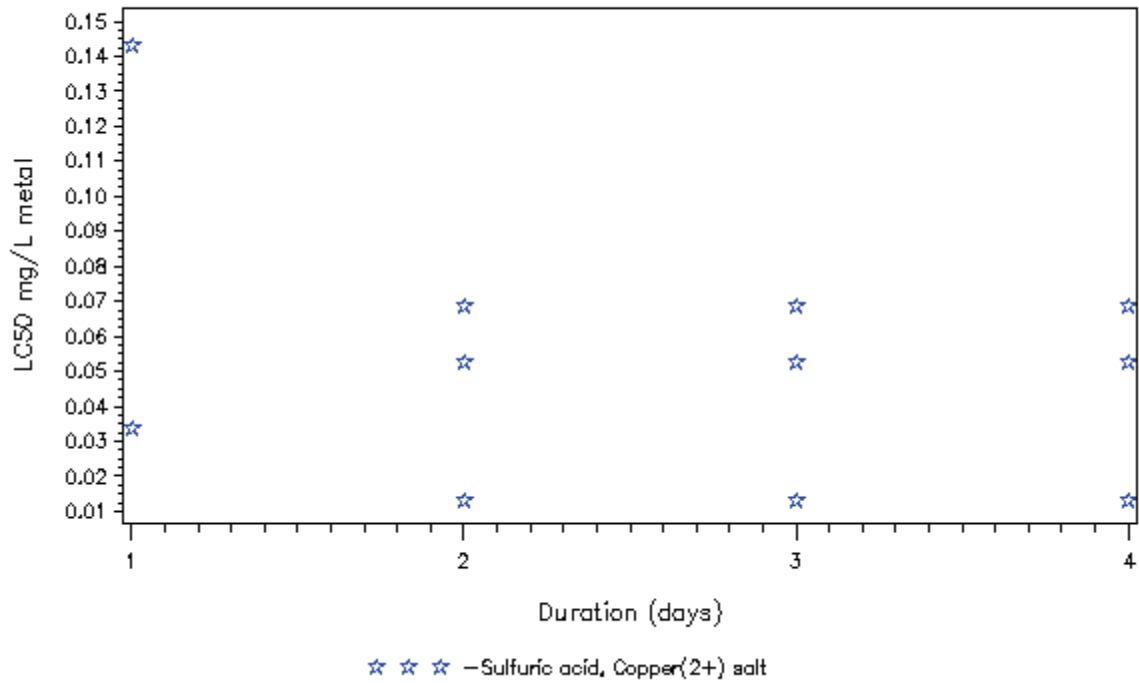


Philodina acuticornis exposed to Copper at T>15C in soft water

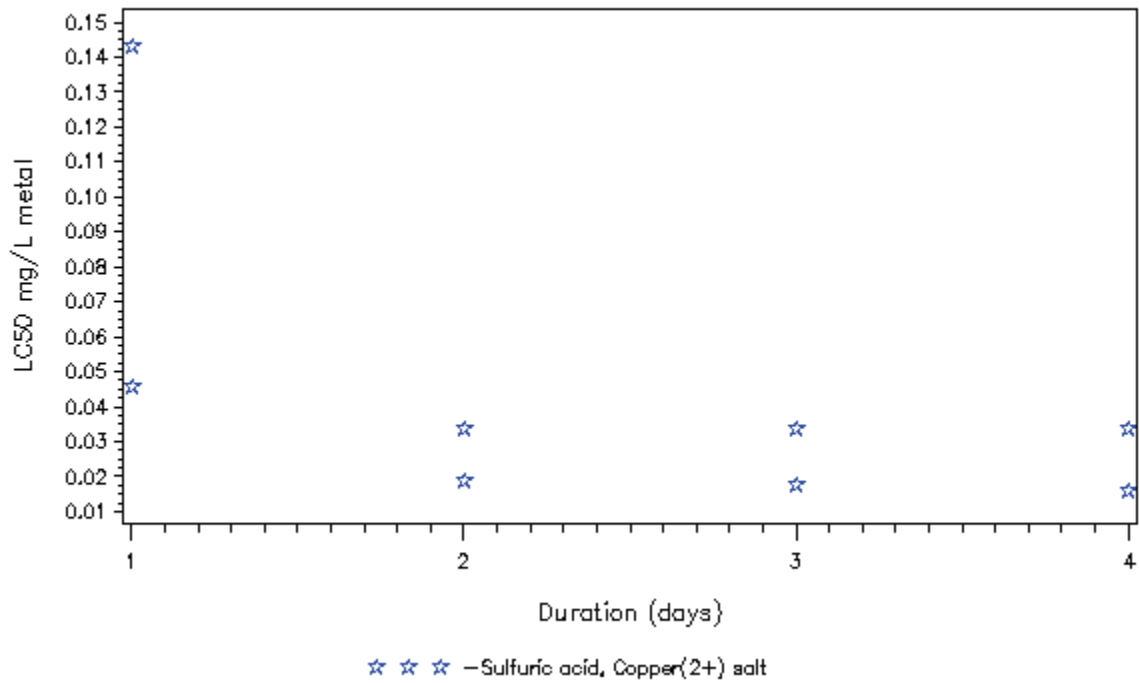


S – Static Test, F – Flowthrough Test, R –Renewal Test

Physa heterostropha exposed to Copper at T>15C in moderate water

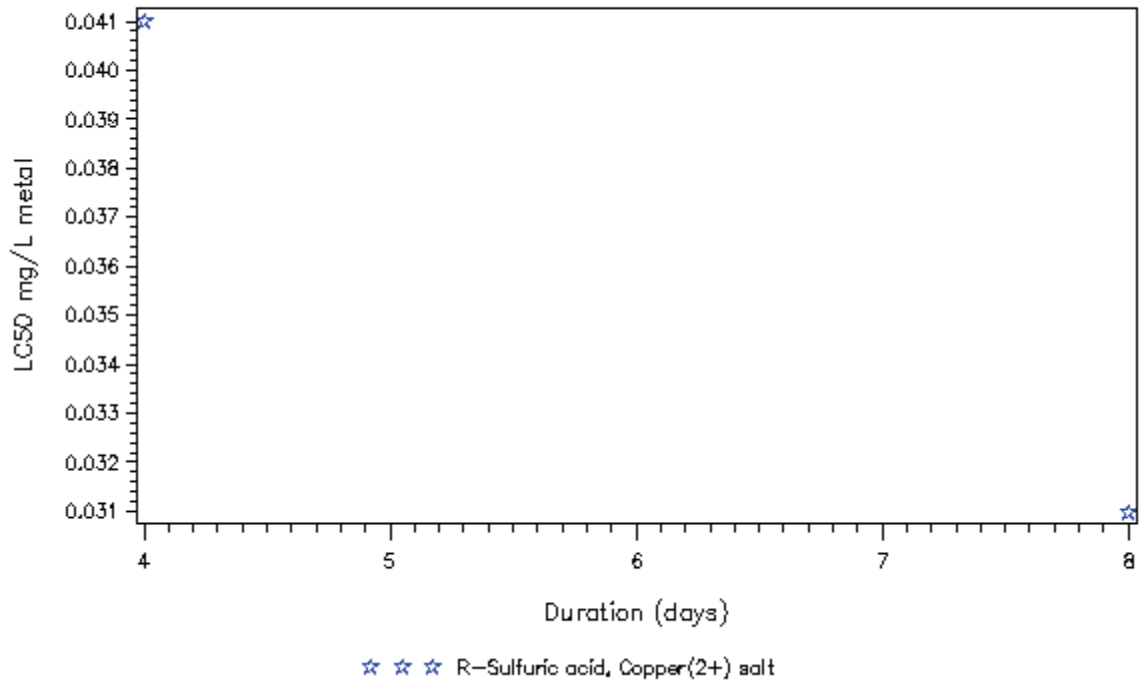


Physa heterostropha exposed to Copper at T>15C in soft water

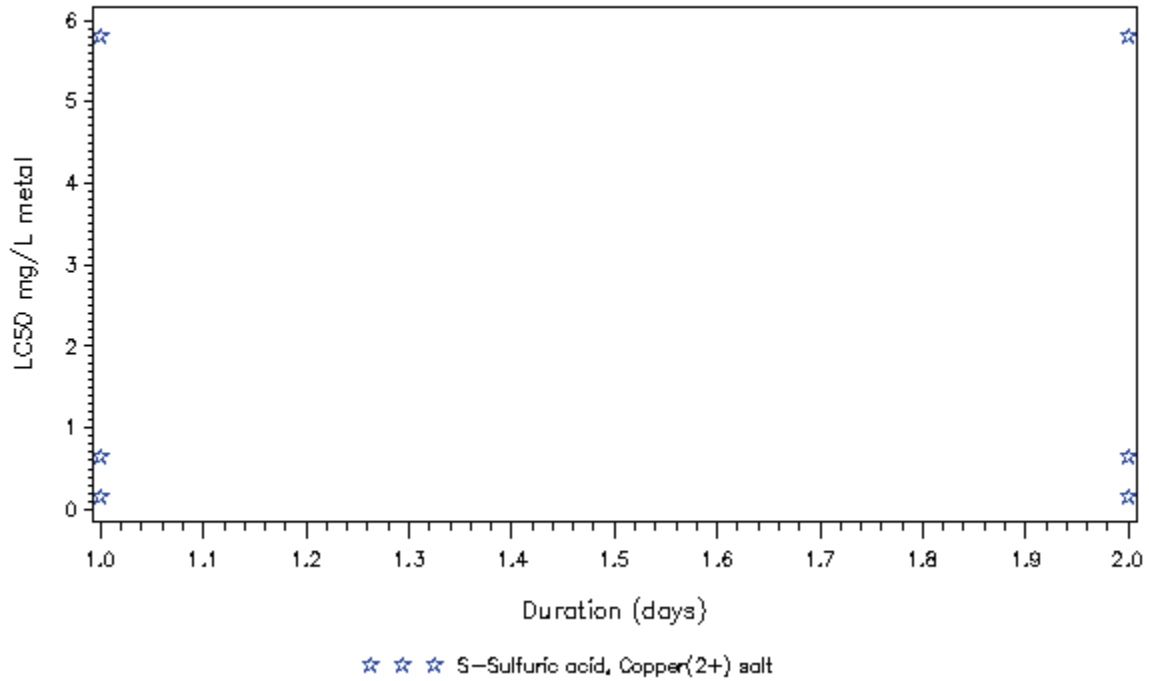


S – Static Test, F – Flowthrough Test, R –Renewal Test

Physastra gibbosa exposed to Copper at T>15C in soft water

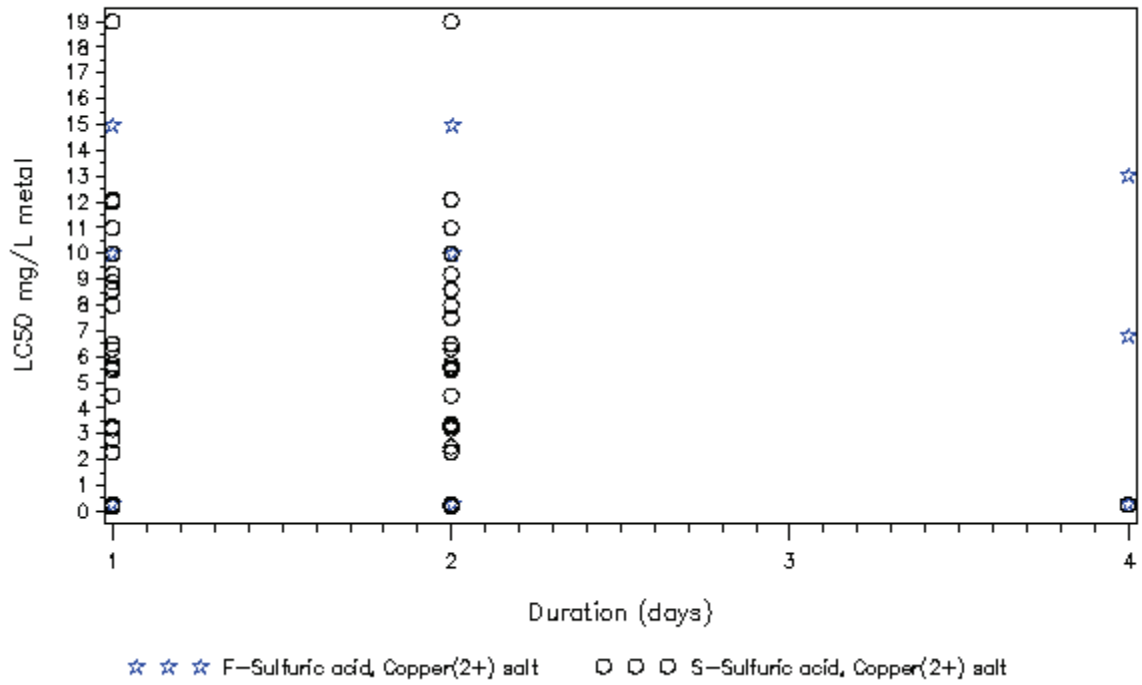


Pimephales notatus exposed to Copper at T>15C in hard water

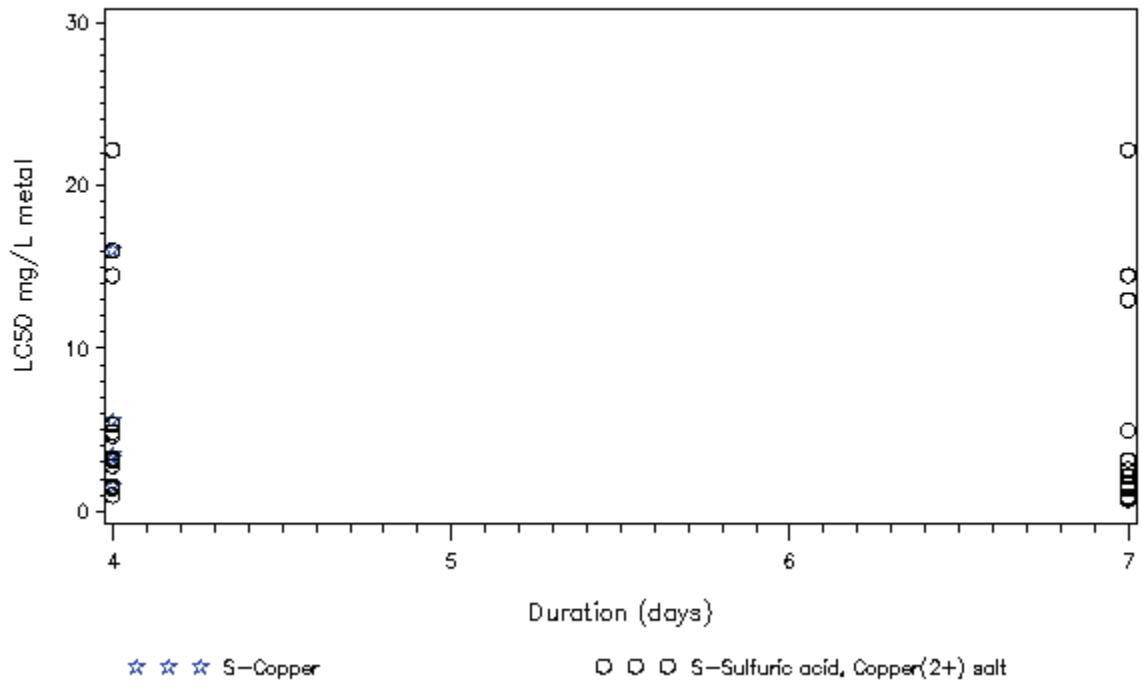


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales notatus exposed to Copper at T>15C in very hard water

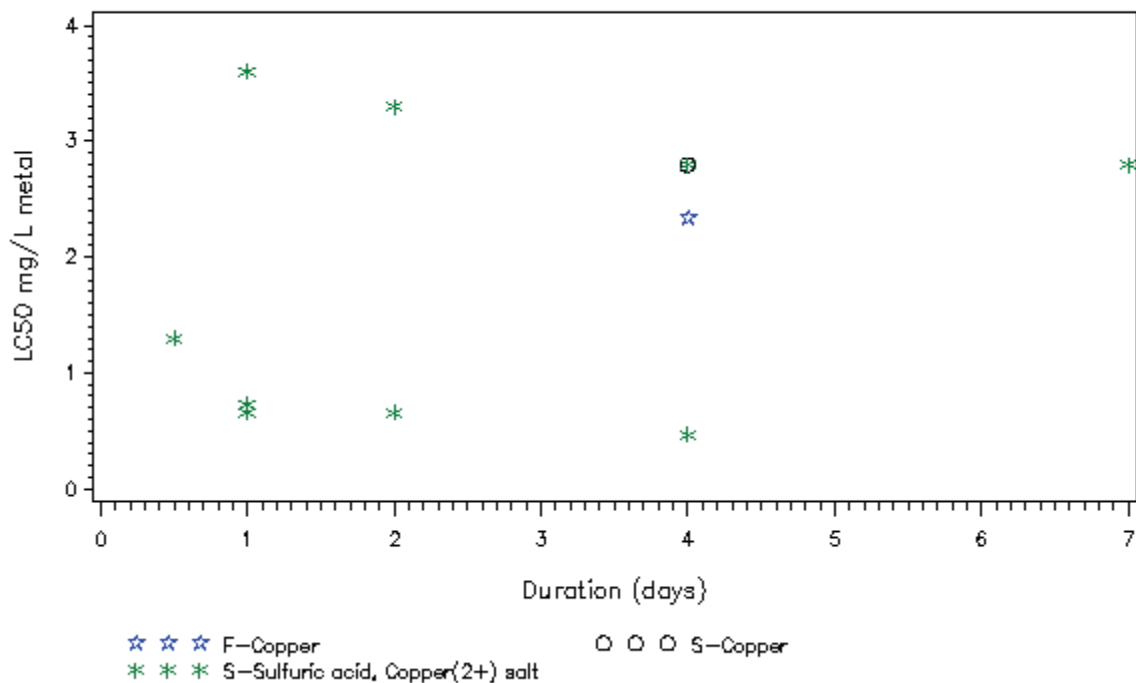


Pimephales promelas exposed to Copper at T<=15C in very hard water

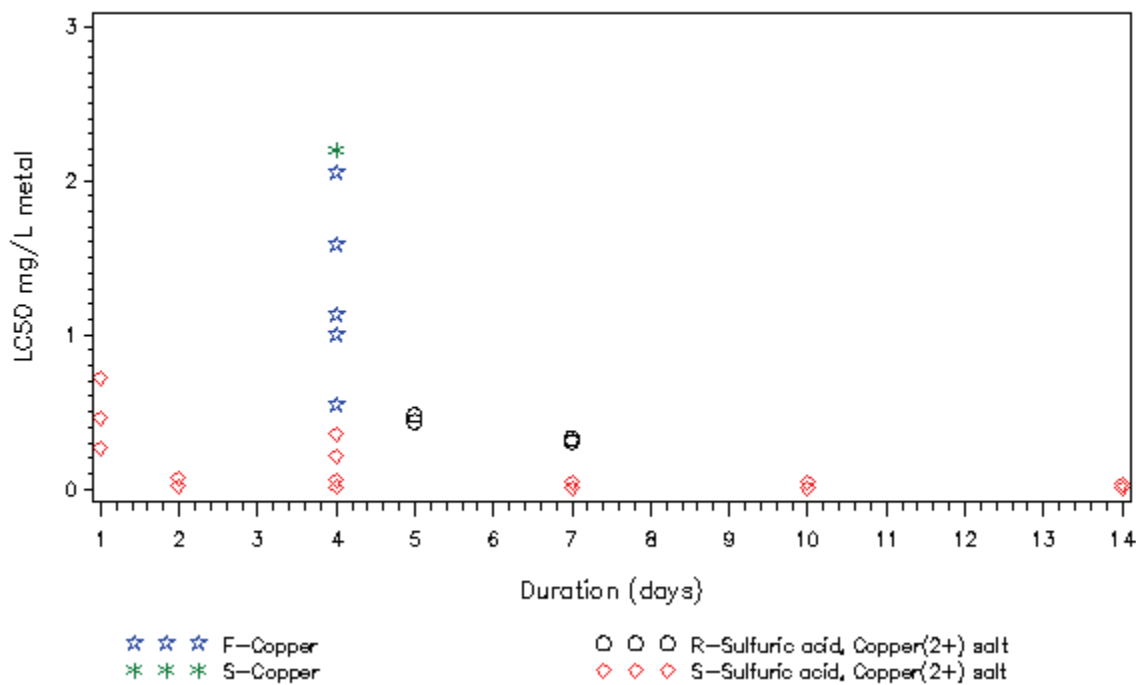


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Copper at T>15C in hard water

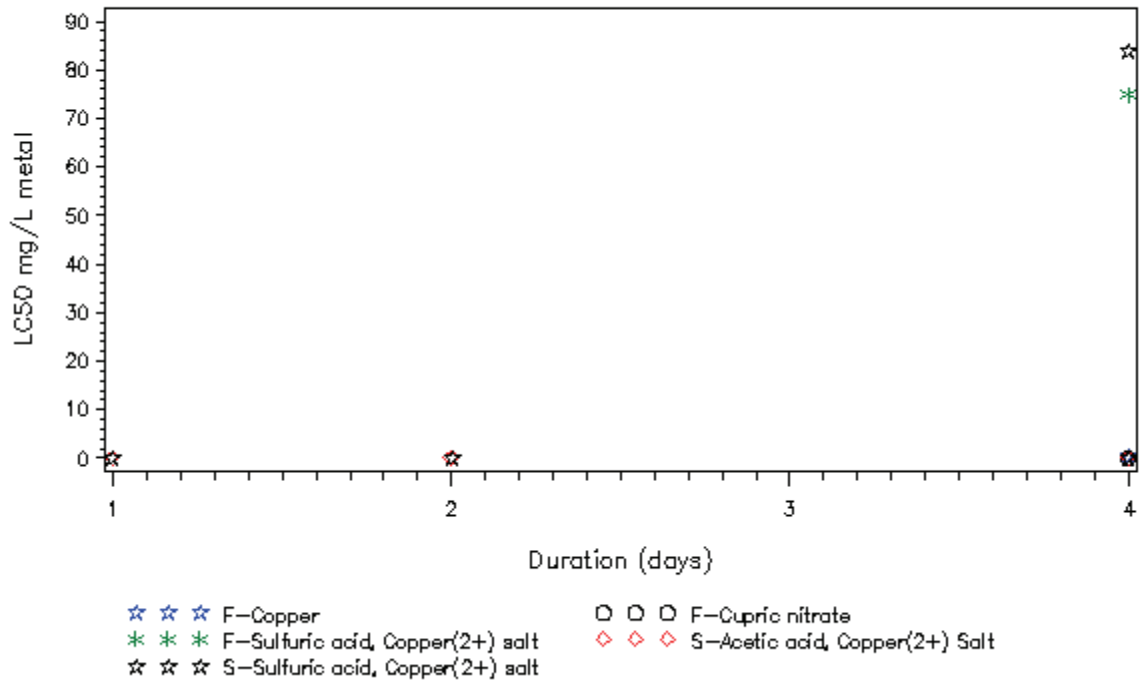


Pimephales promelas exposed to Copper at T>15C in moderate water

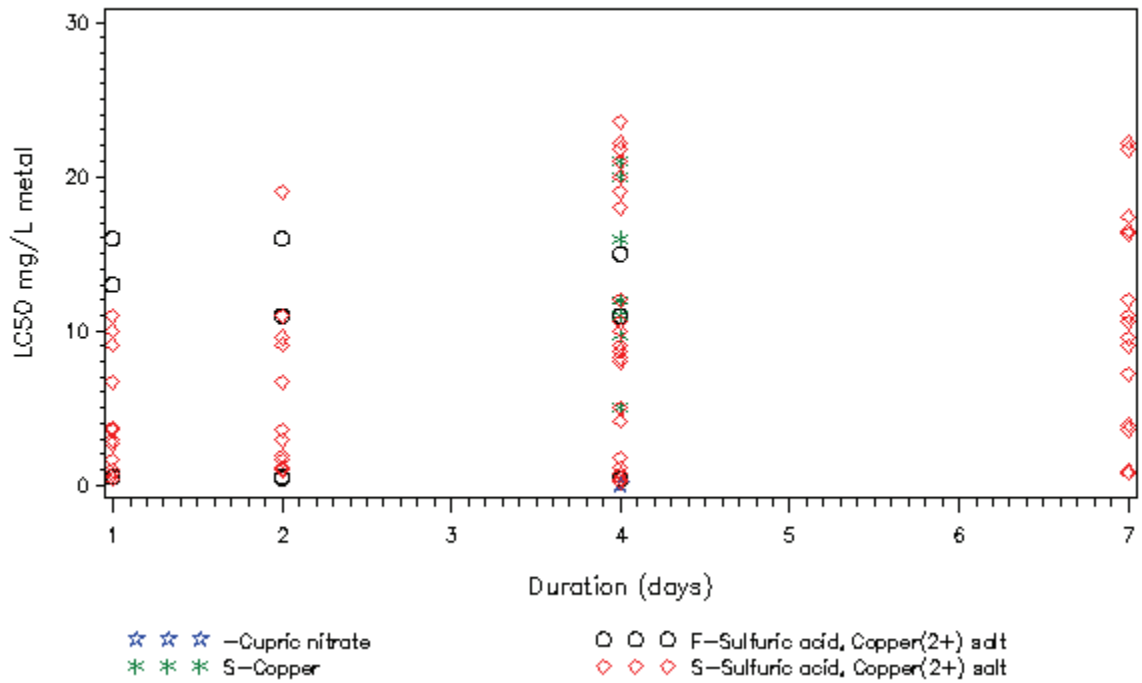


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Copper at T>15C in soft water

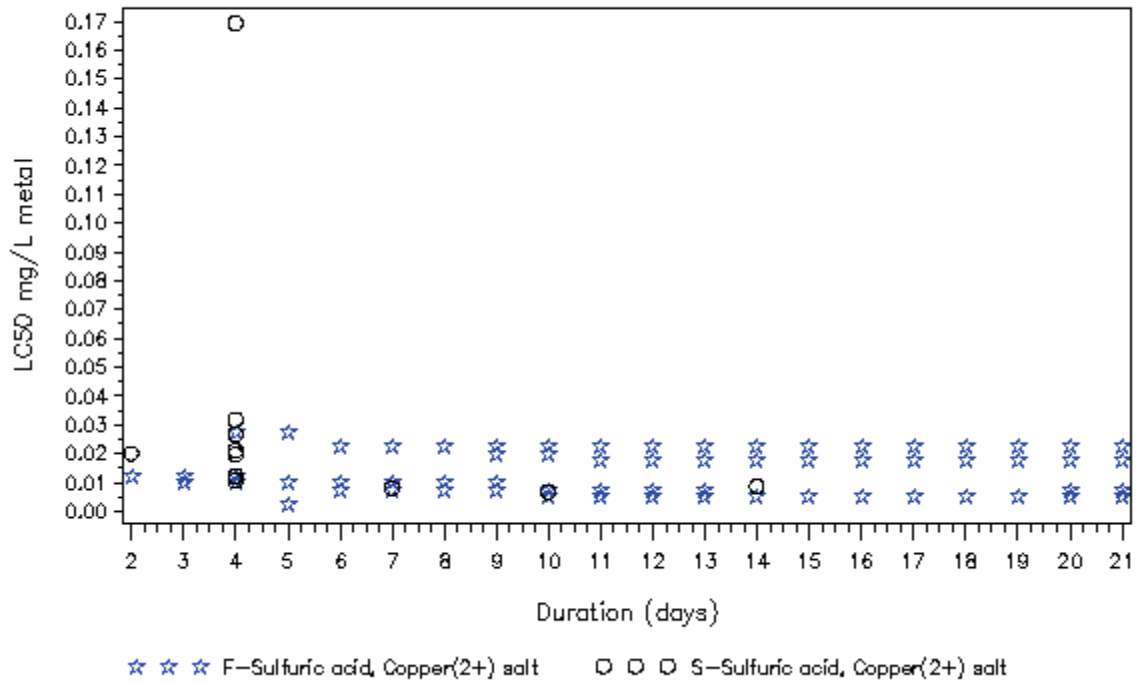


Pimephales promelas exposed to Copper at T>15C in very hard water

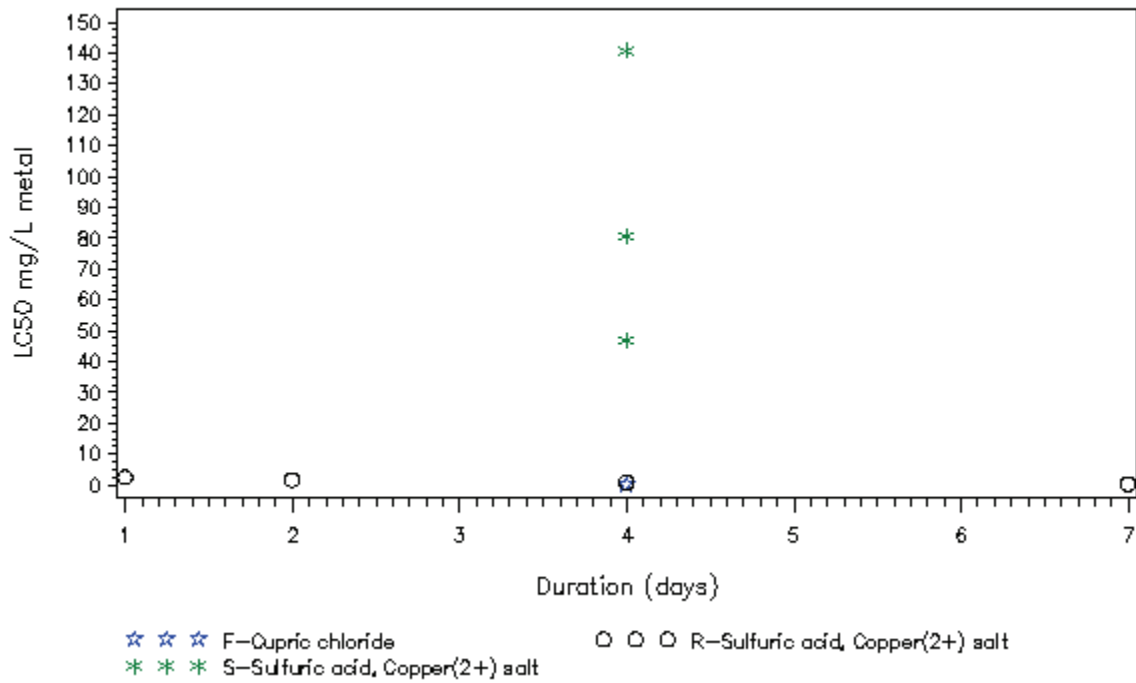


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Copper at T>15C in very soft water

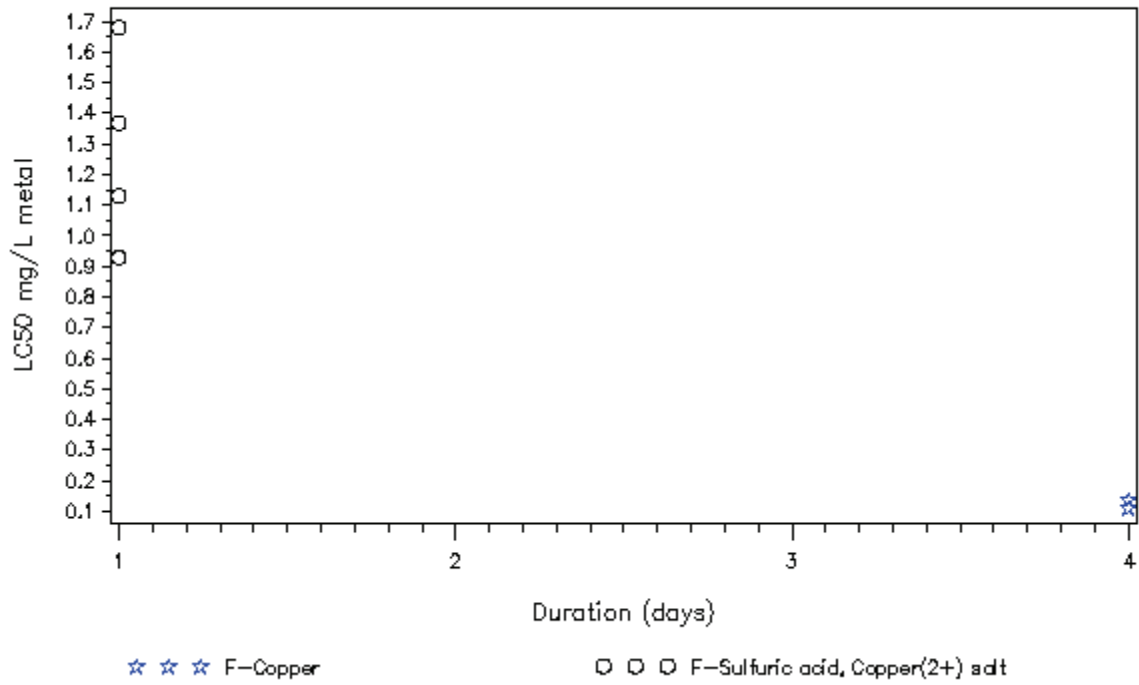


Poecilia reticulata exposed to Copper at T>15C in hard water

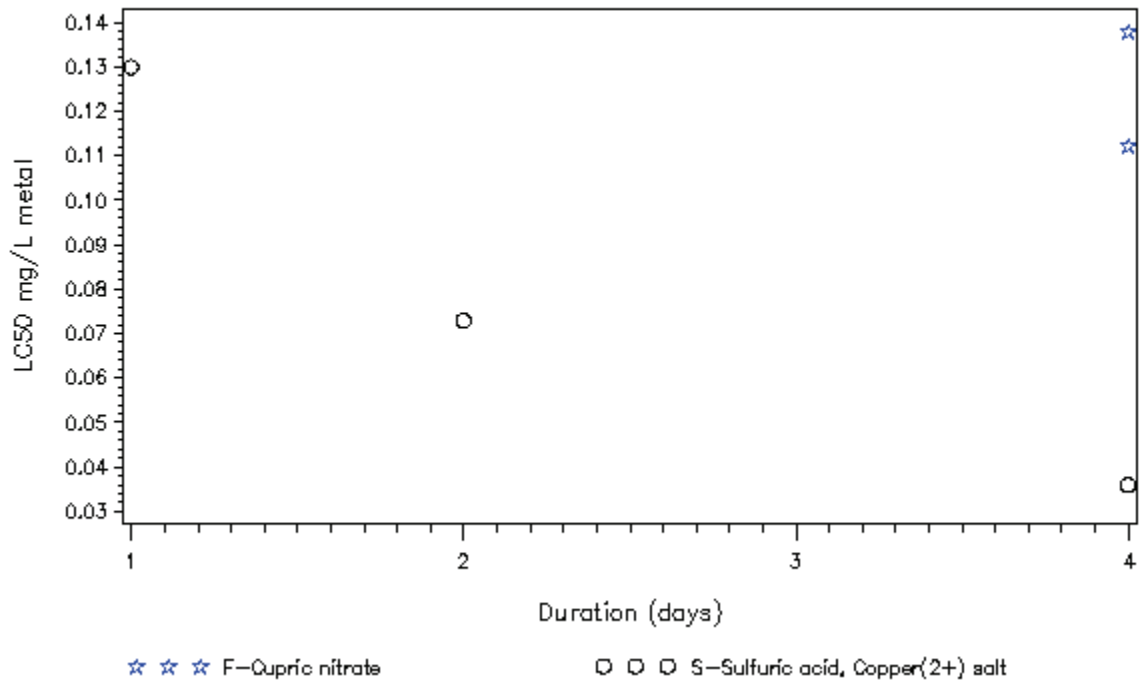


S – Static Test, F – Flowthrough Test, R –Renewal Test

Poecilia reticulata exposed to Copper at T>15C in moderate water

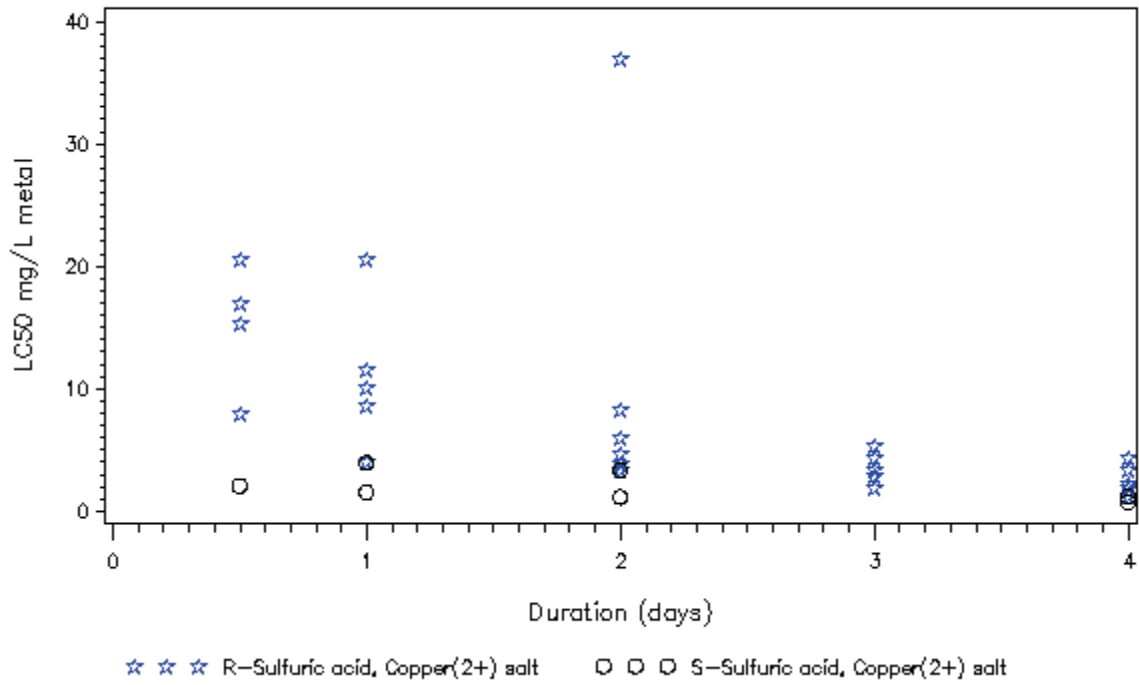


Poecilia reticulata exposed to Copper at T>15C in soft water

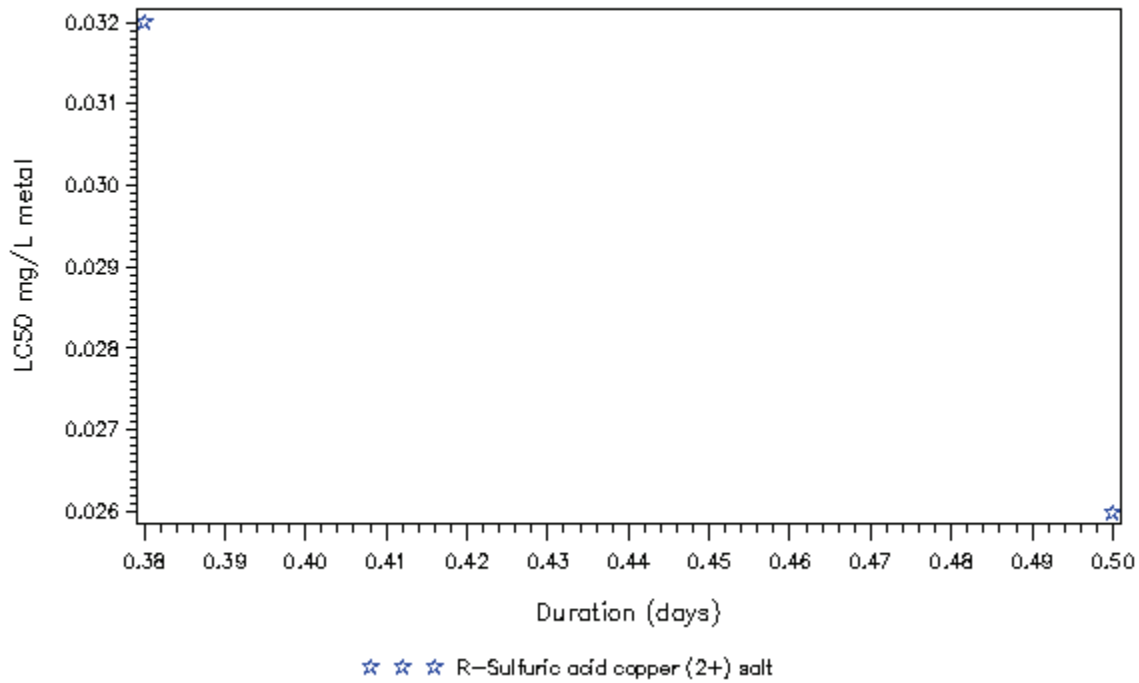


S – Static Test, F – Flowthrough Test, R –Renewal Test

Poecilia reticulata exposed to Copper at T>15C in very hard water

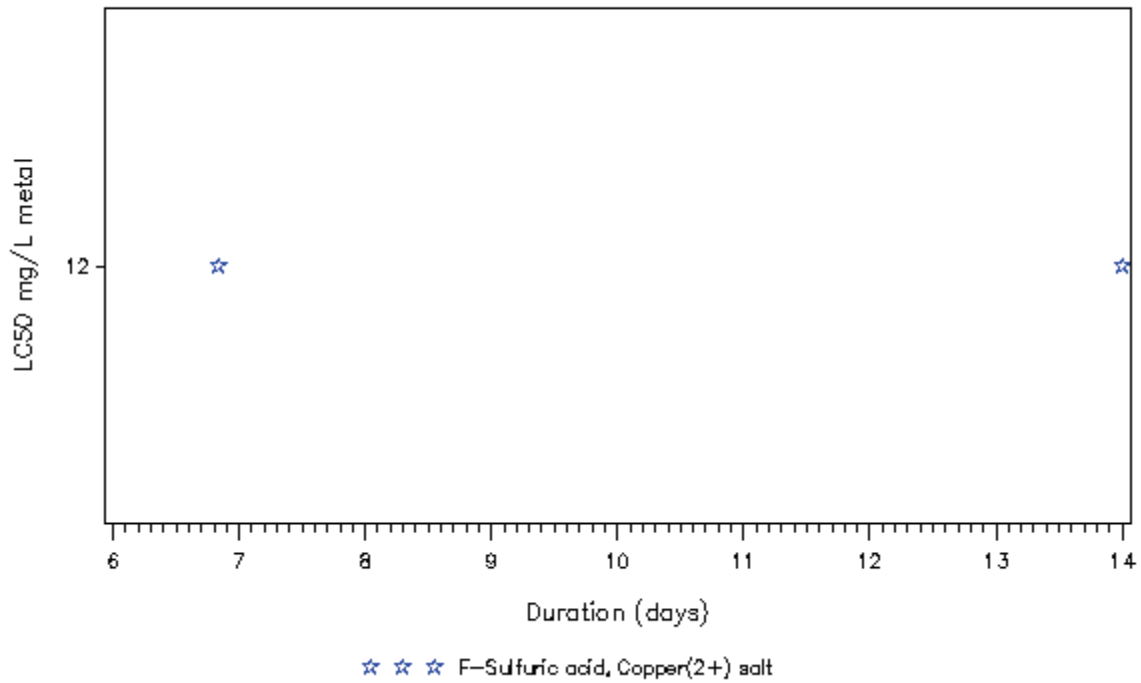


Posthodiplostomum minimum exposed to Copper at T>15C in very soft water

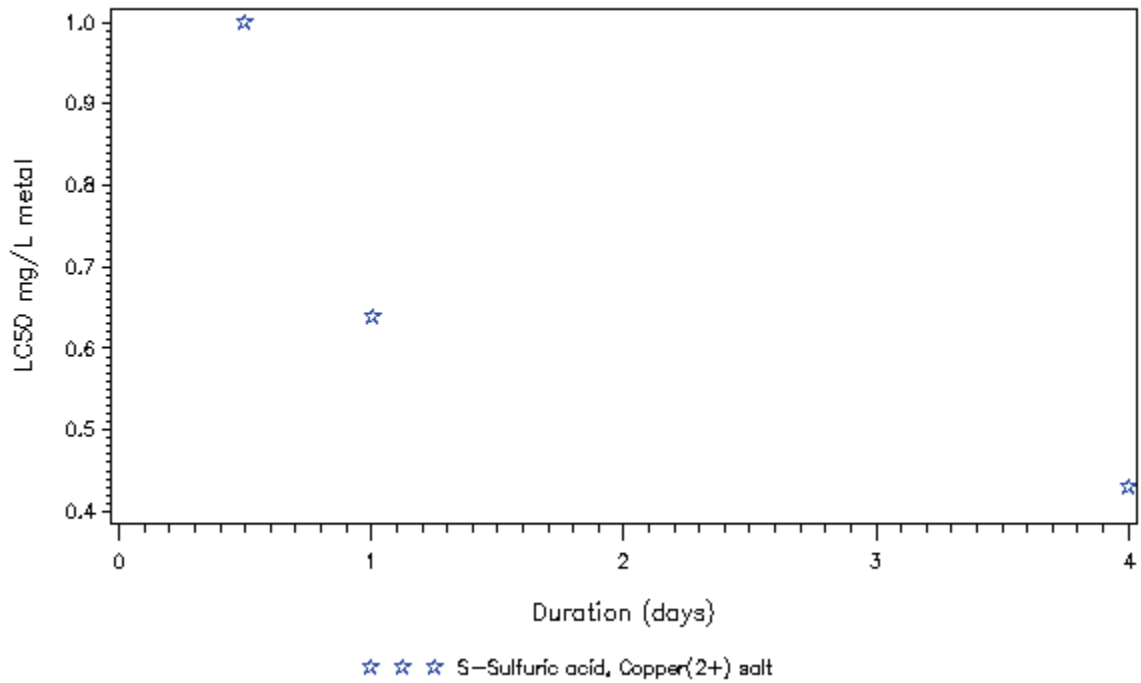


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pteronarcys californicus exposed to Copper at T<=15C in soft water

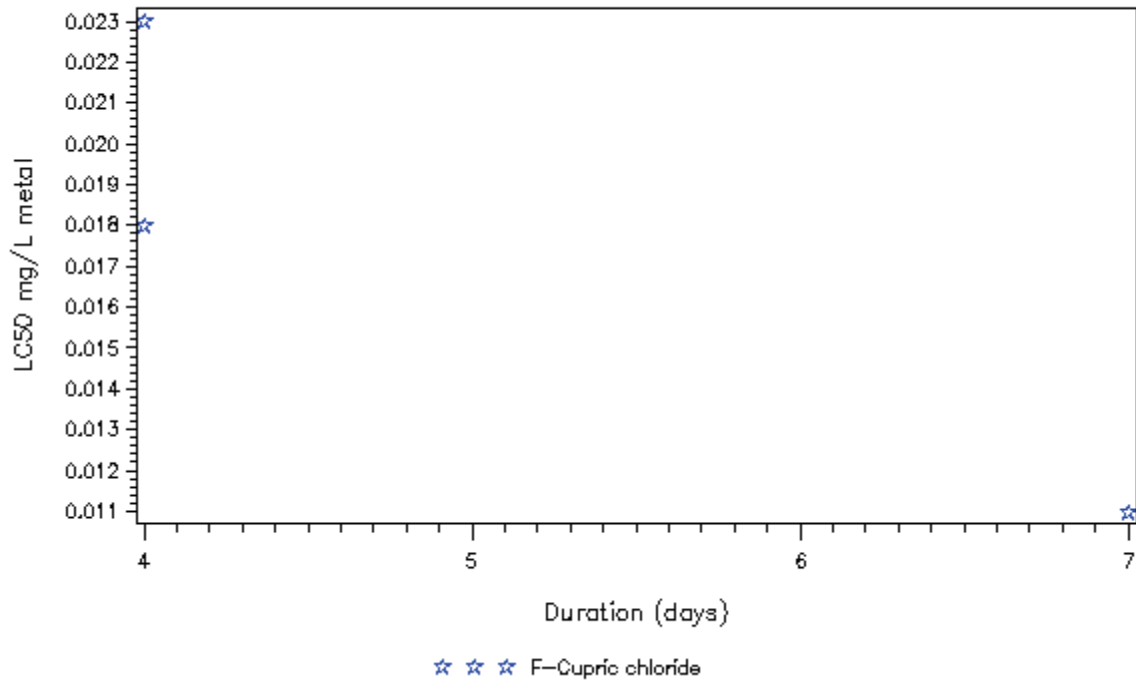


Ptychocheilus lucius exposed to Copper at T>15C in hard water

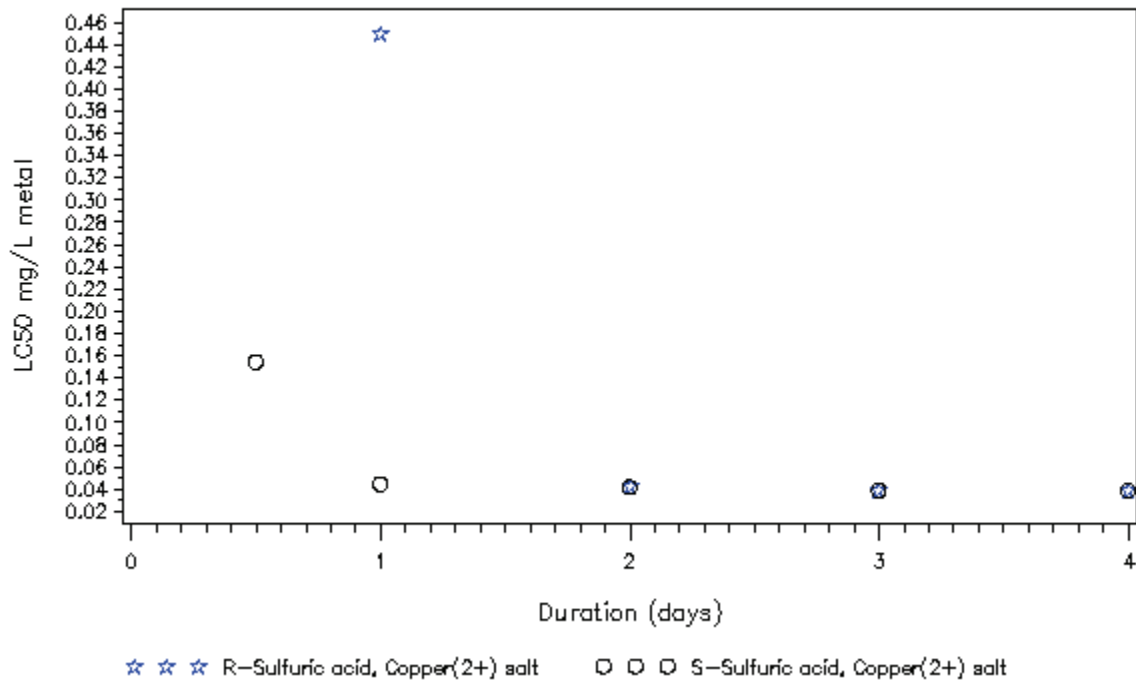


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ptychocheilus oregonensis exposed to Copper at T<=15C in soft water

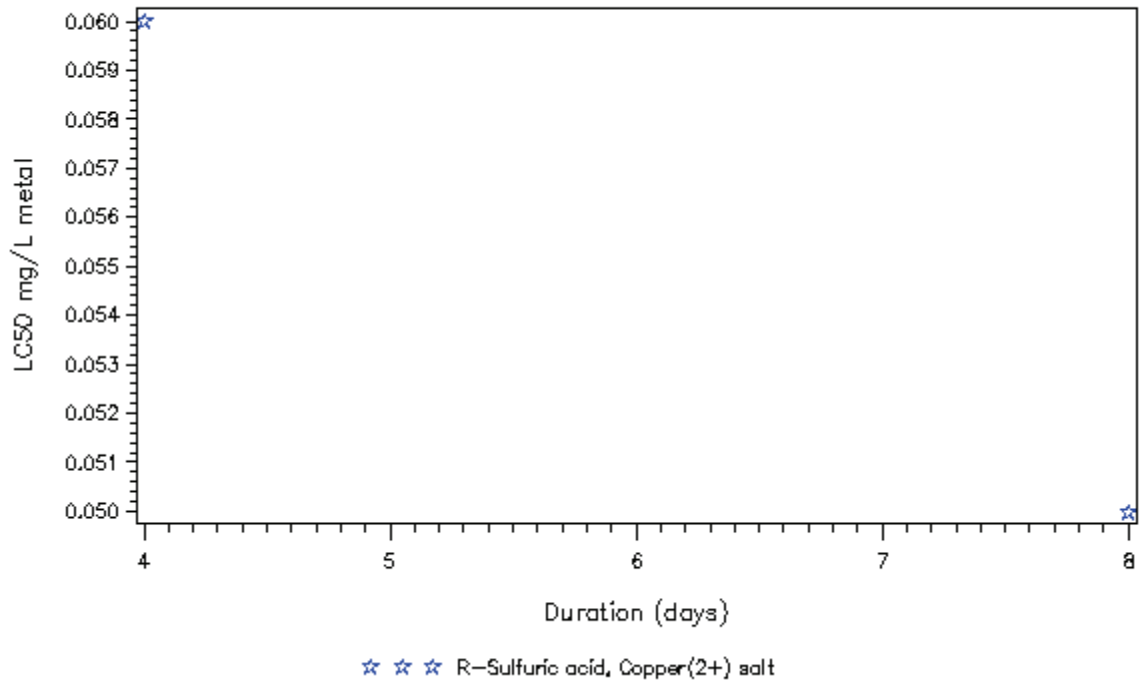


Rana hexadactyla exposed to Copper at T<=15C in soft water

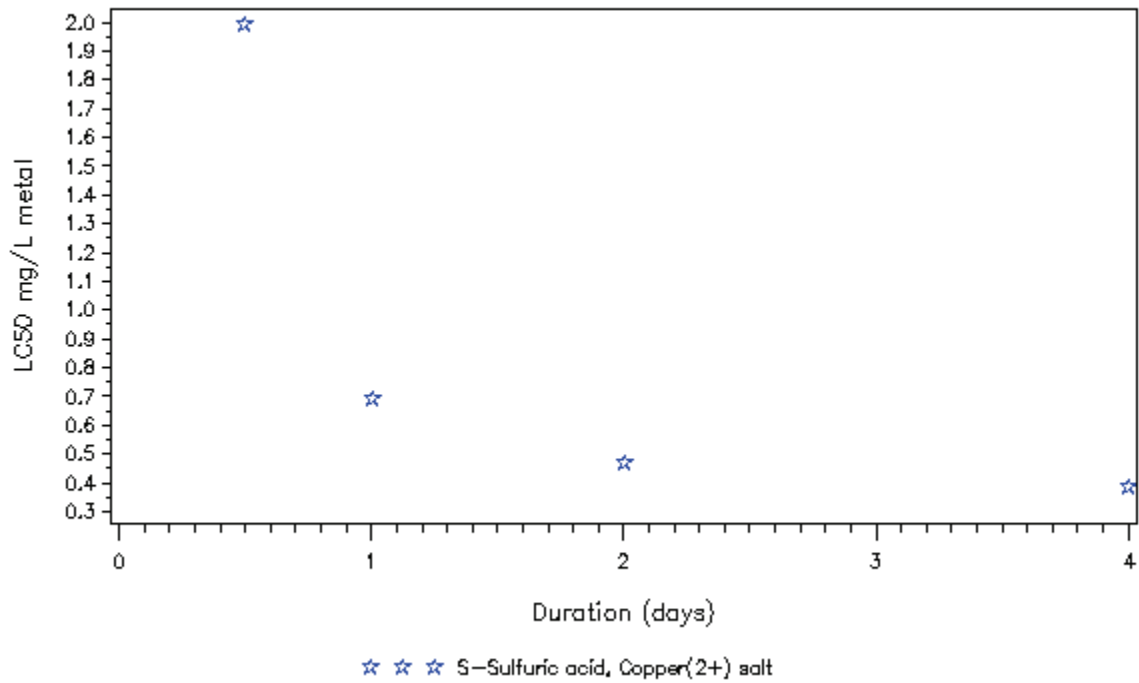


S – Static Test, F – Flowthrough Test, R –Renewal Test

Rana pipiens exposed to Copper at T>15C in moderate water

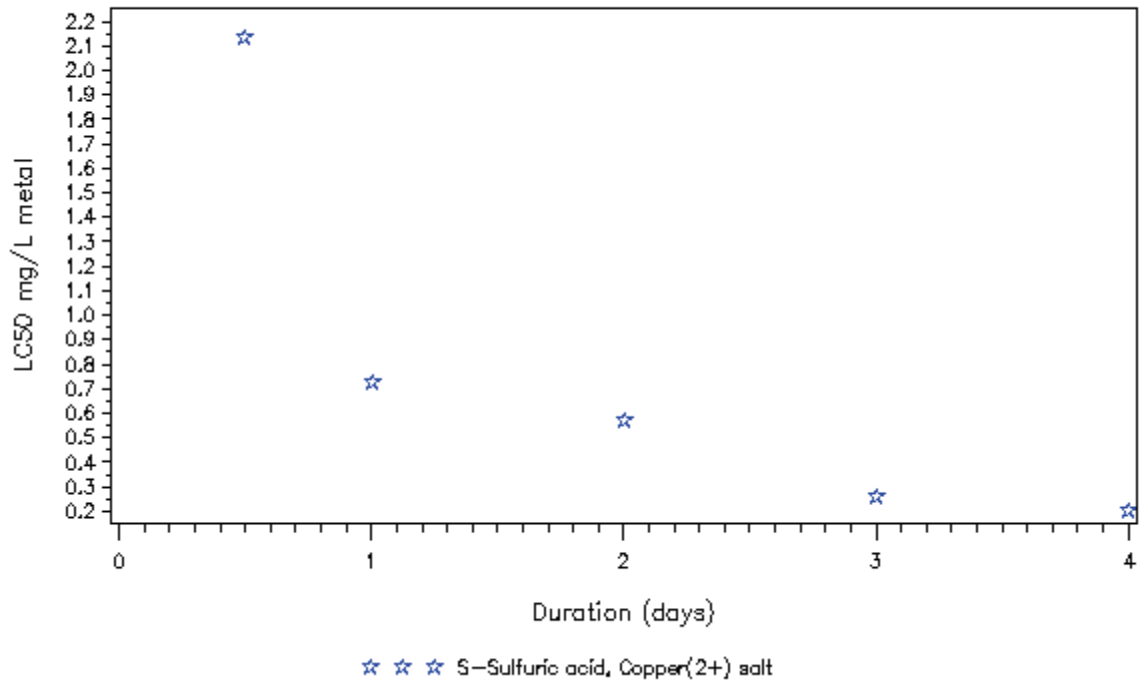


Rana tigrina exposed to Copper at T>15C in very hard water

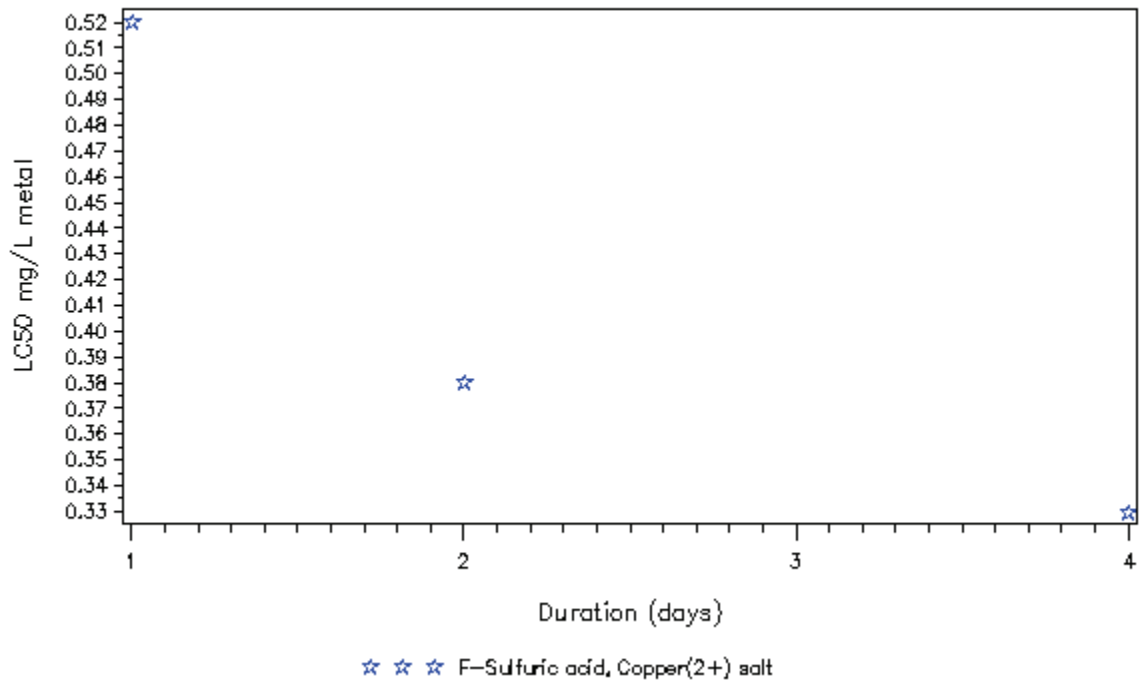


S – Static Test, F – Flowthrough Test, R –Renewal Test

Rasbora daniconius neilgeriens exposed to Copper at T>15C in very hard water

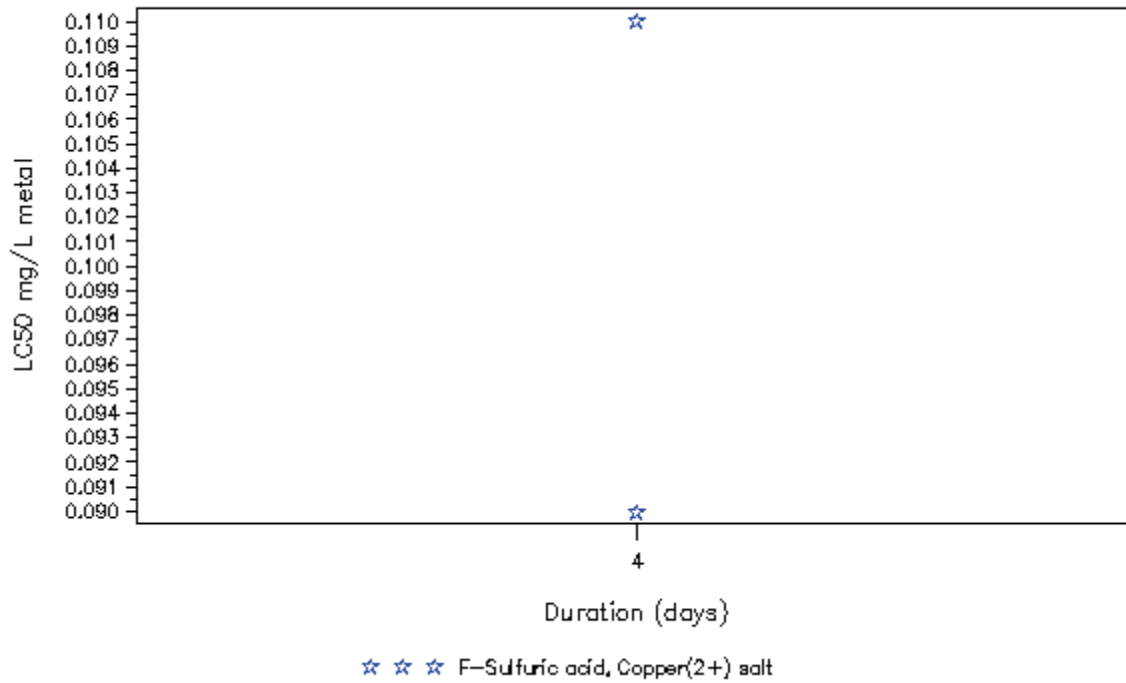


Rhinichthys atratulus exposed to Copper at T>15C in very hard water

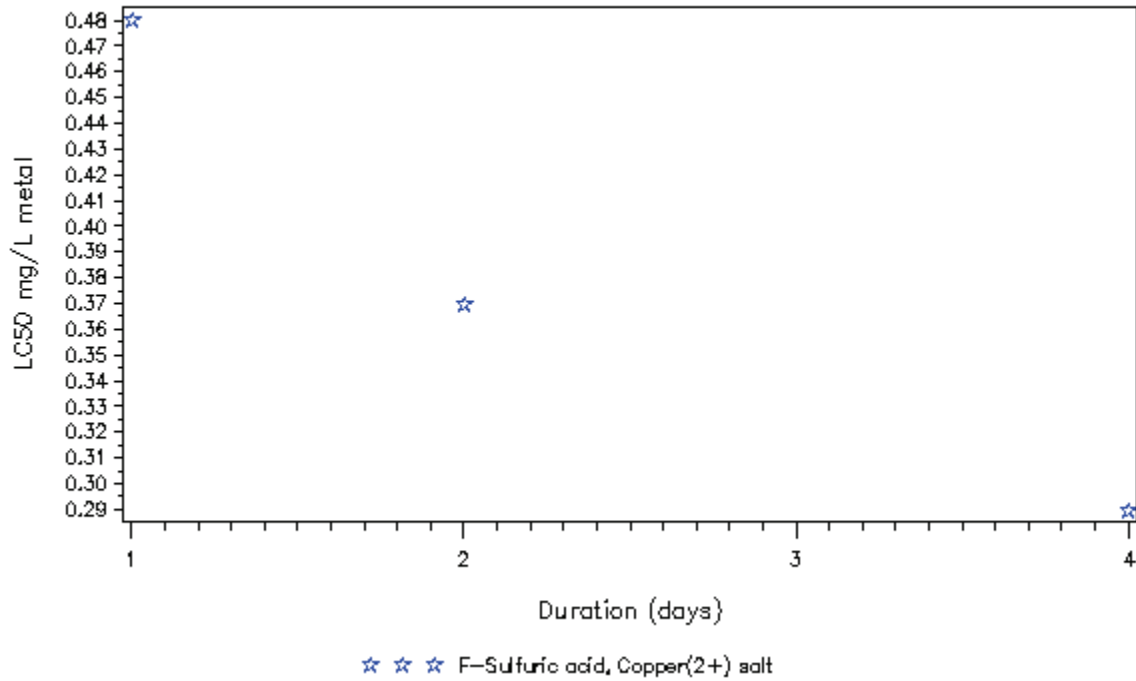


S – Static Test, F – Flowthrough Test, R –Renewal Test

Salvelinus fontinalis exposed to Copper at T<=15C in soft water

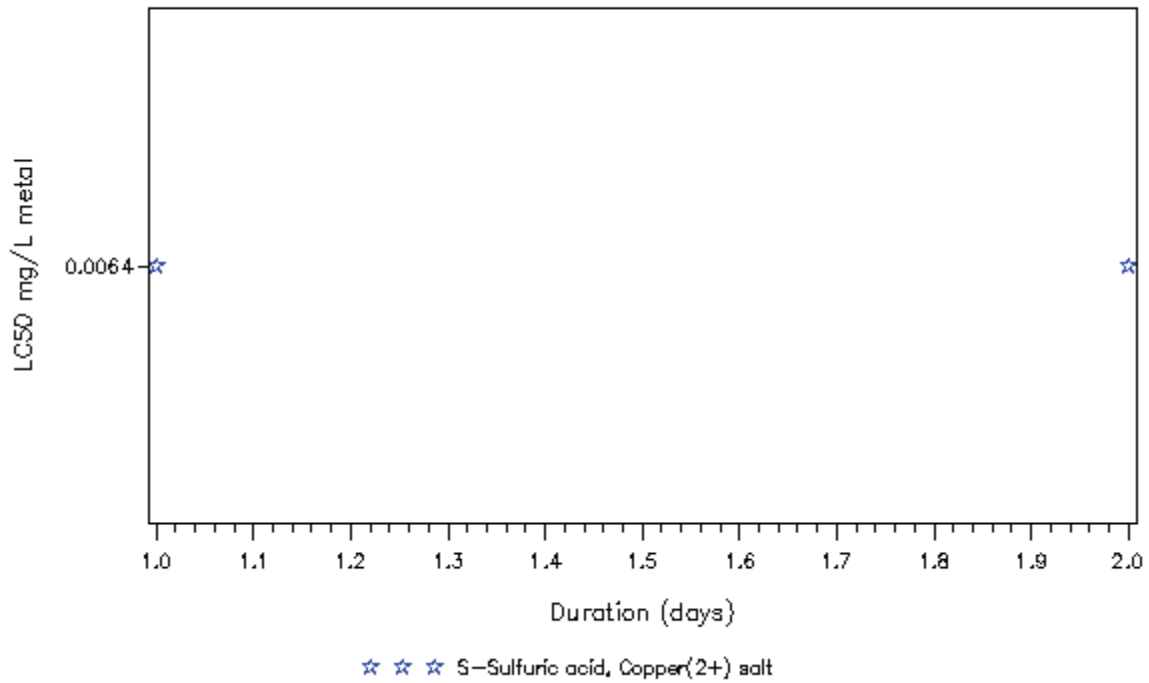


Semotilus atromaculatus exposed to Copper at T>15C in very hard water

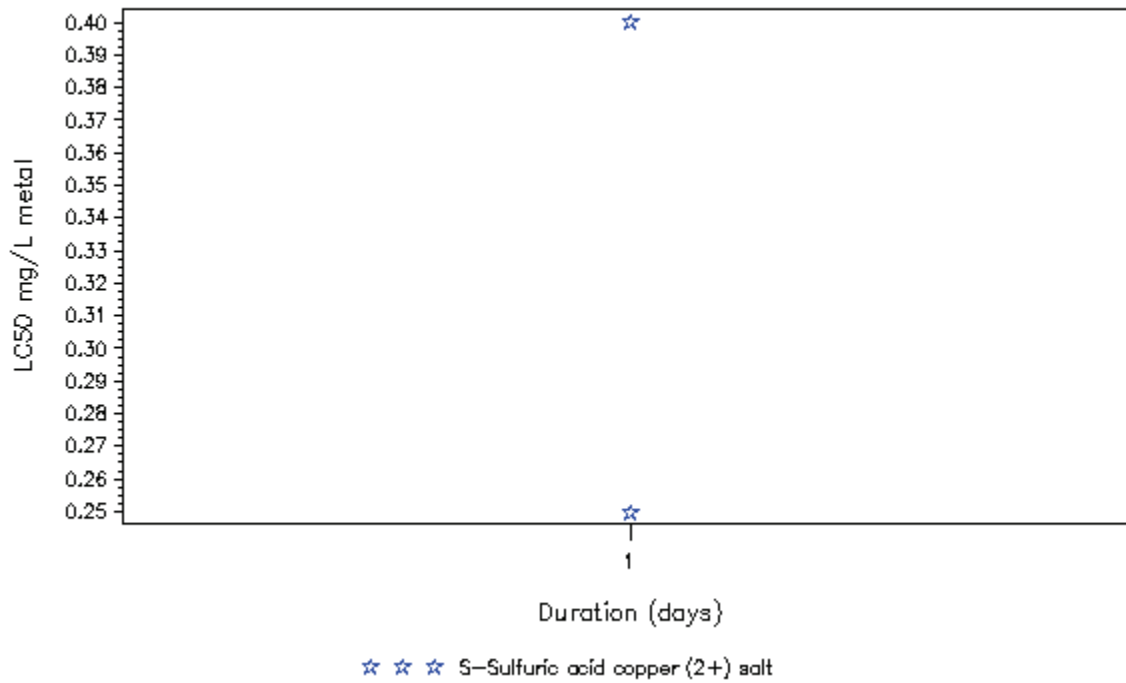


S – Static Test, F – Flowthrough Test, R –Renewal Test

Spirostomum ambiguum exposed to Copper at T>15C in very soft water

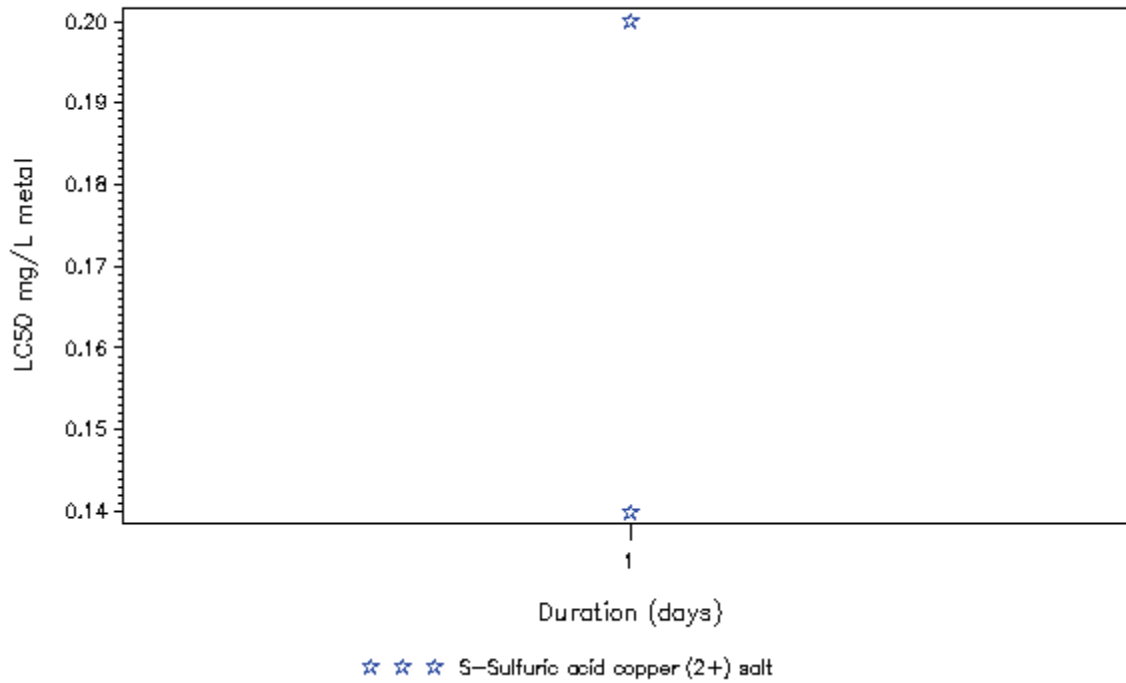


Streptocephalus proboscideus exposed to Copper at T<=15C in hard water

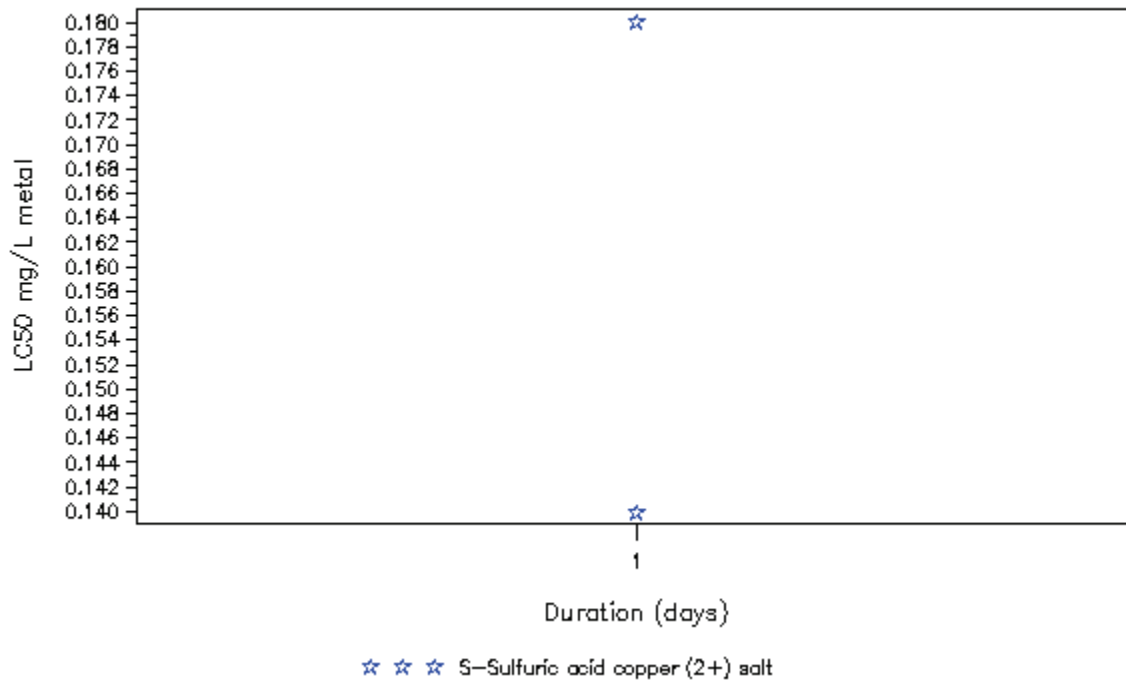


S – Static Test, F – Flowthrough Test, R –Renewal Test

Streptocephalus proboscideus exposed to Copper at T<=15C in moderate water

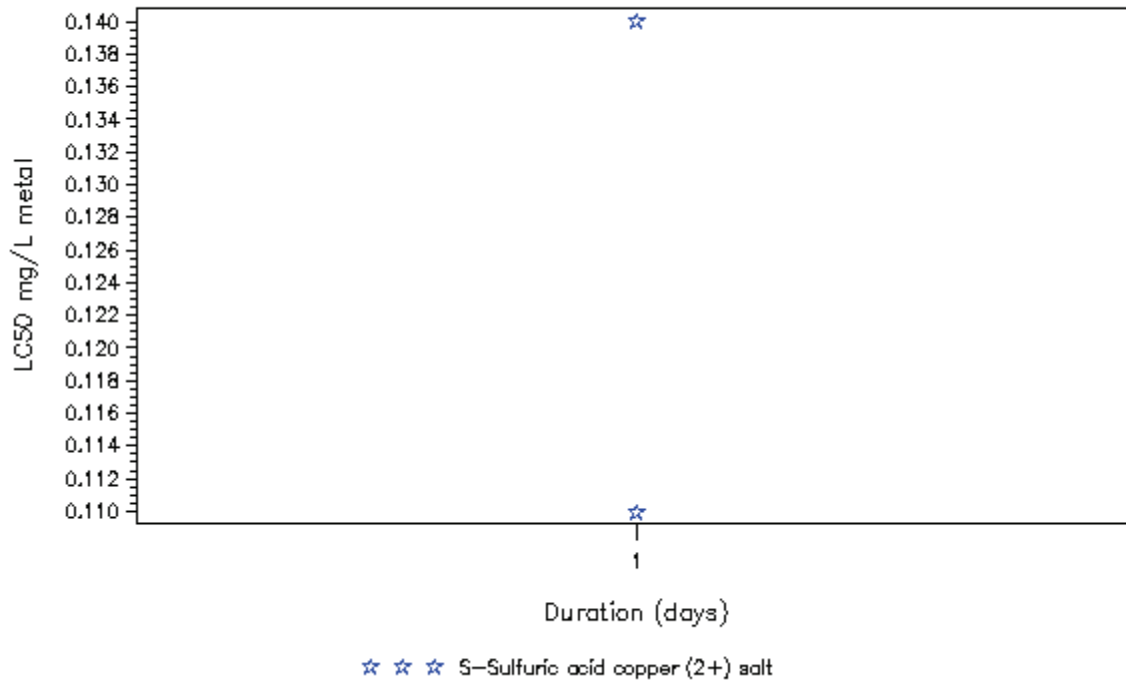


Streptocephalus proboscideus exposed to Copper at T<=15C in soft water

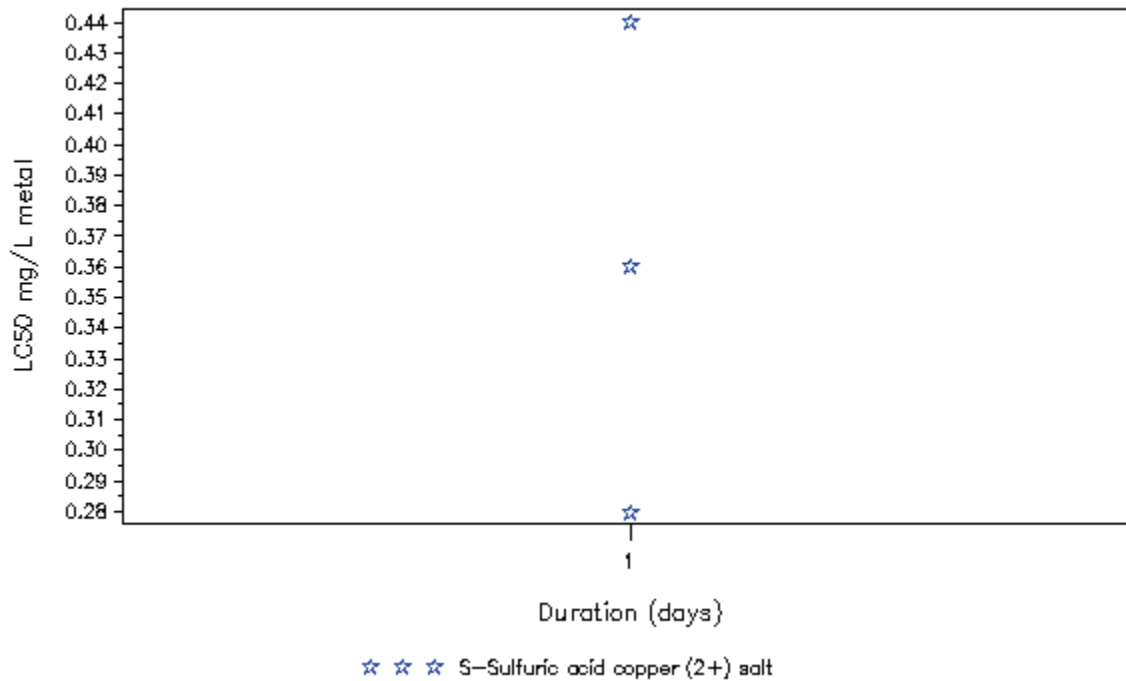


S – Static Test, F – Flowthrough Test, R –Renewal Test

Streptocephalus proboscideus exposed to Copper at T<=15C in very soft water

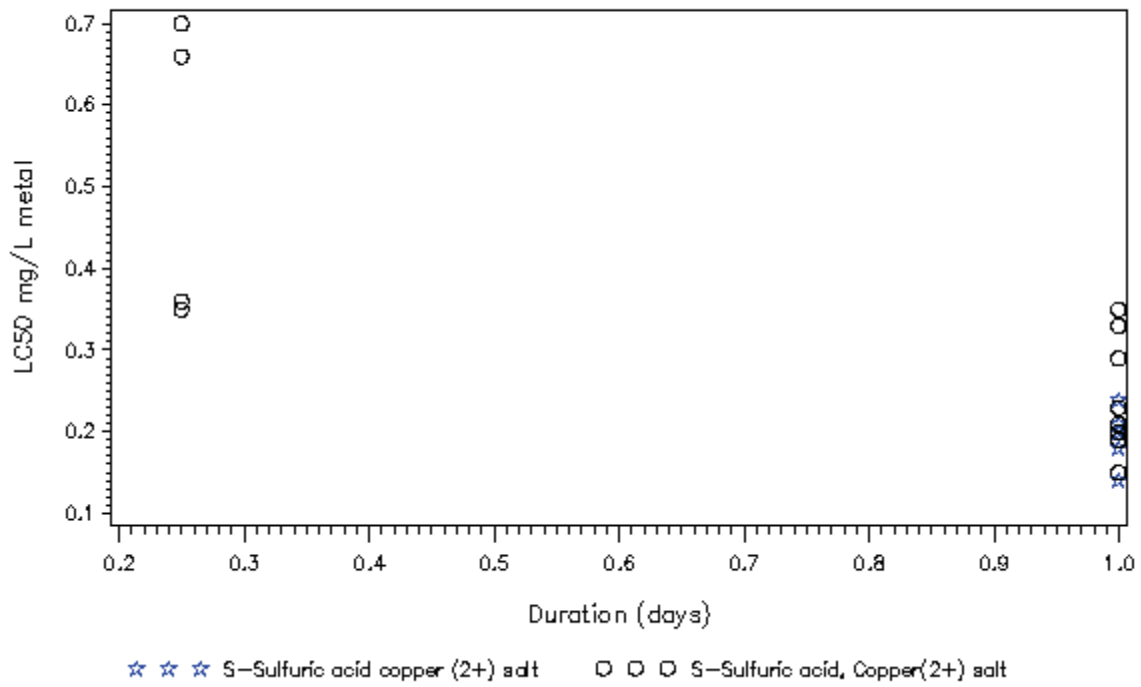


Streptocephalus proboscideus exposed to Copper at T>15C in hard water

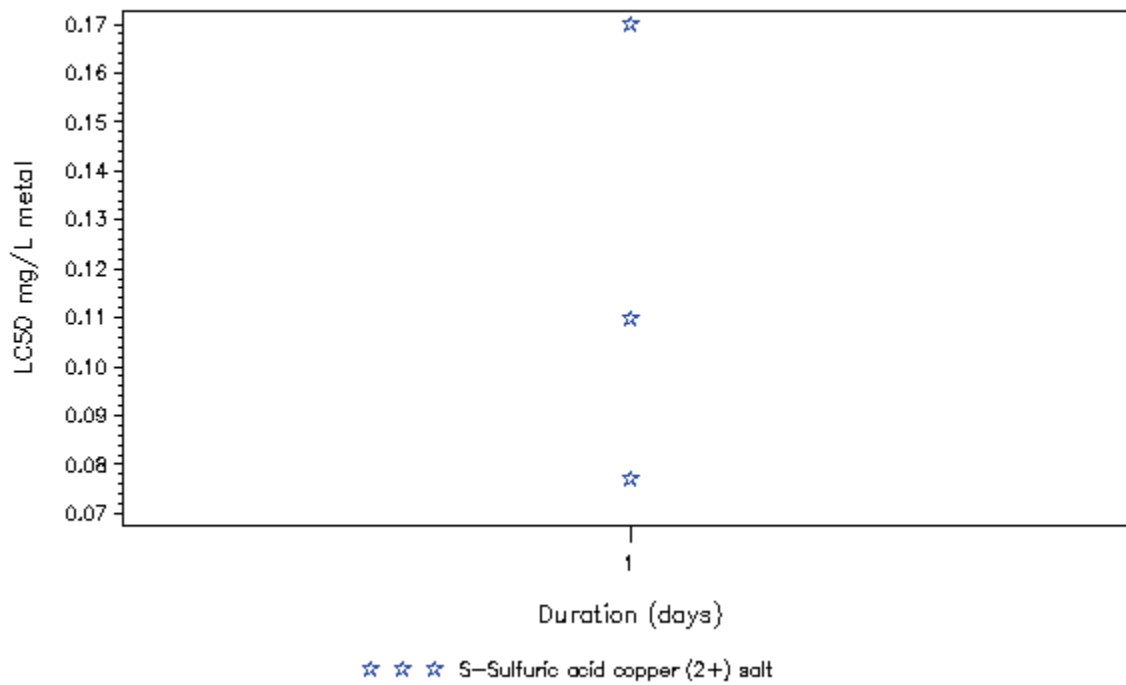


S – Static Test, F – Flowthrough Test, R –Renewal Test

Streptocephalus proboscideus exposed to Copper at T>15C in moderate water

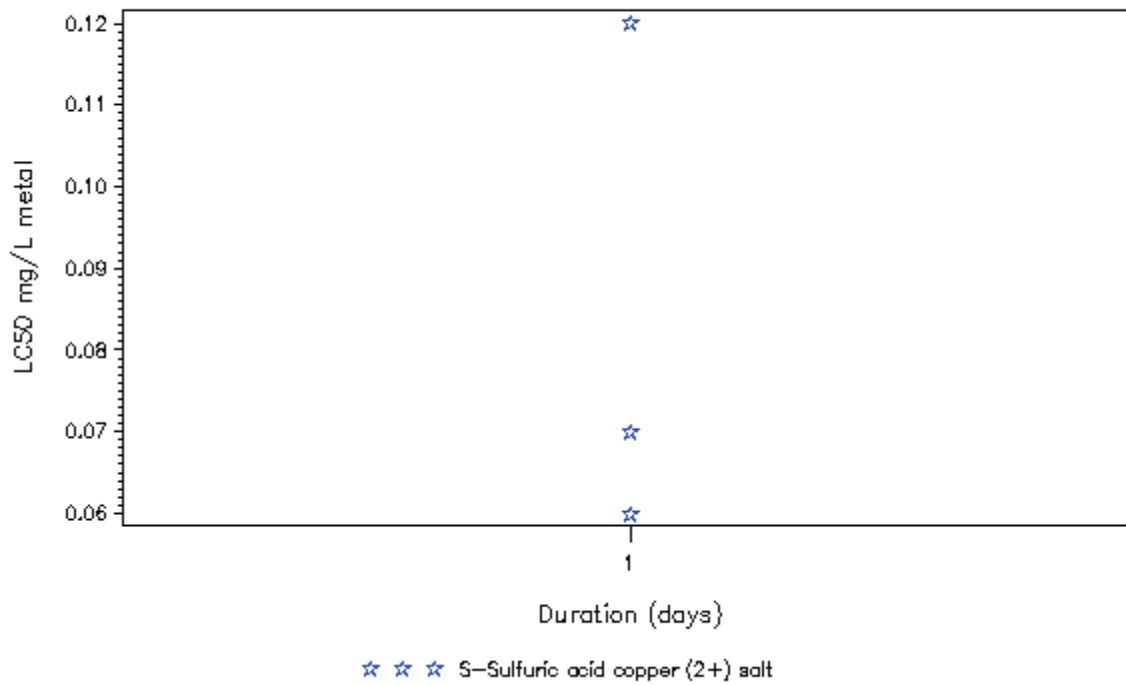


Streptocephalus proboscideus exposed to Copper at T>15C in soft water

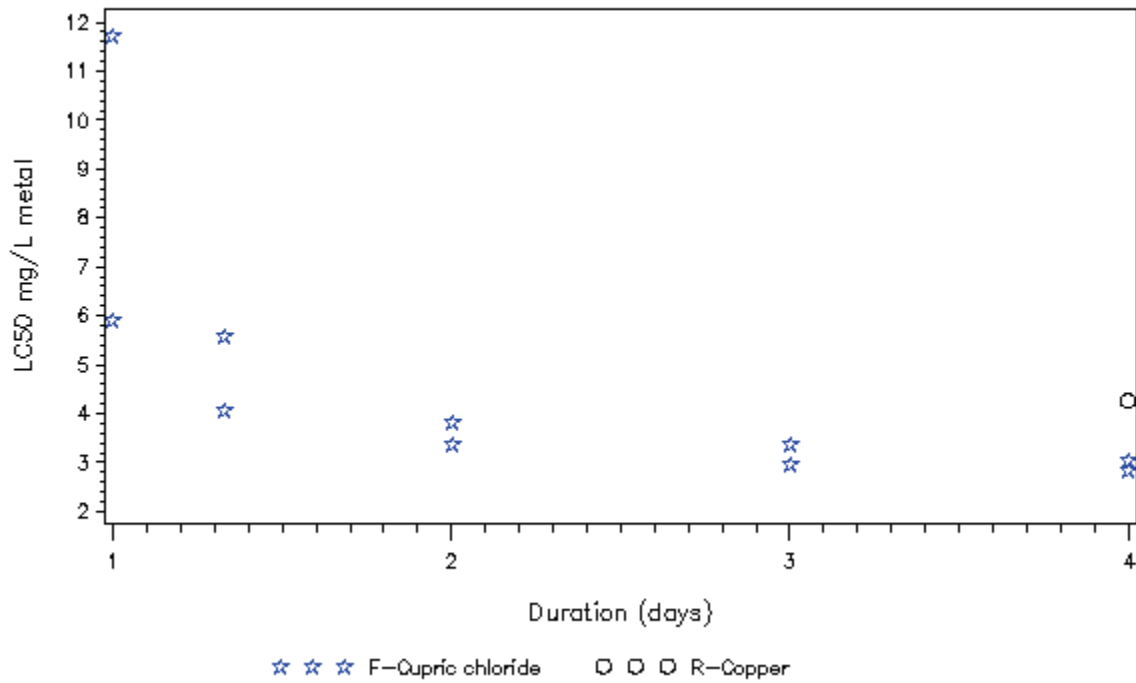


S – Static Test, F – Flowthrough Test, R –Renewal Test

Streptocephalus proboscideus exposed to Copper at T>15C in very soft water

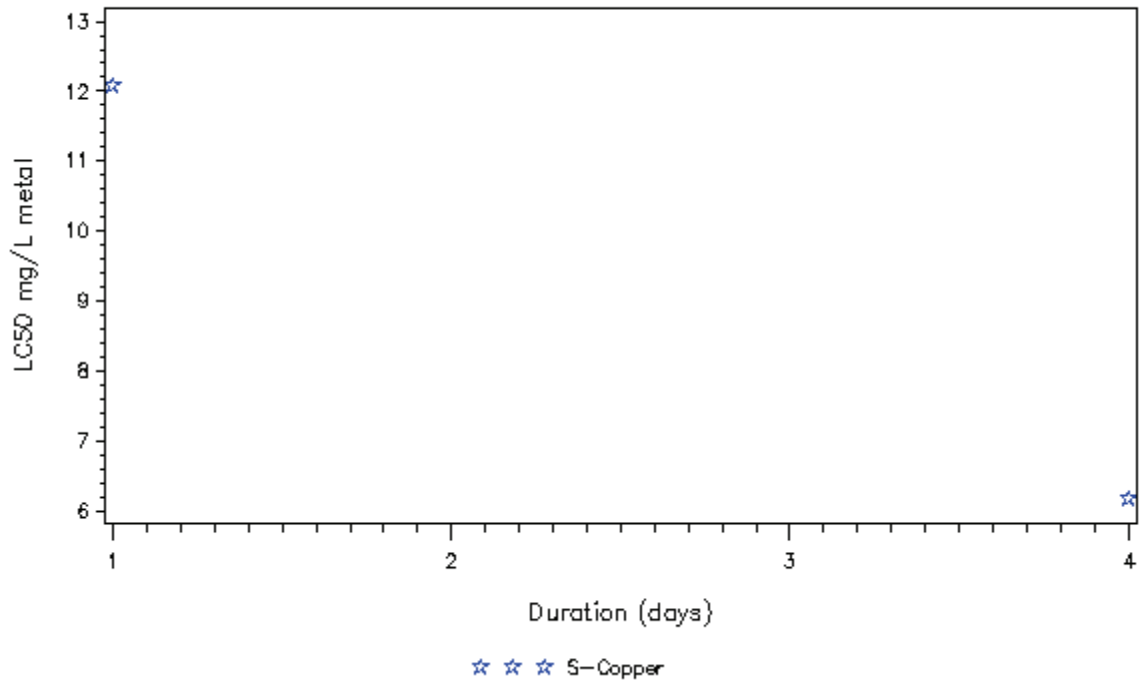


Tilapia mossambica exposed to Copper at T>15C in moderate water

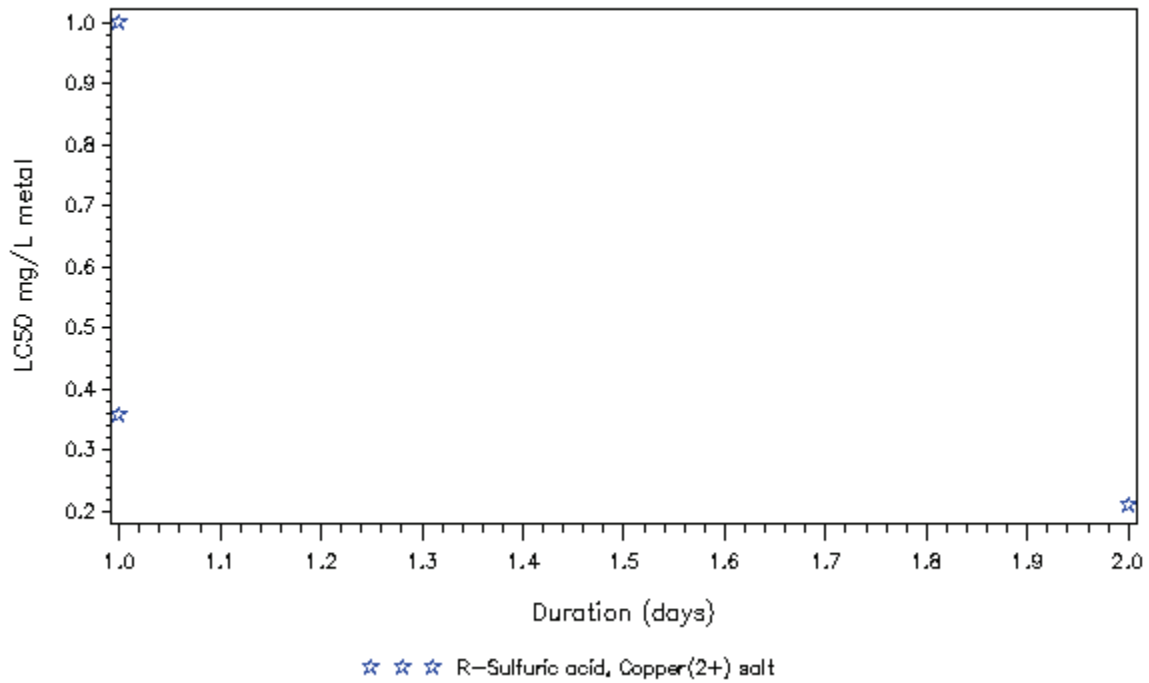


S – Static Test, F – Flowthrough Test, R –Renewal Test

Trichoptera exposed to Copper at T>15C in soft water

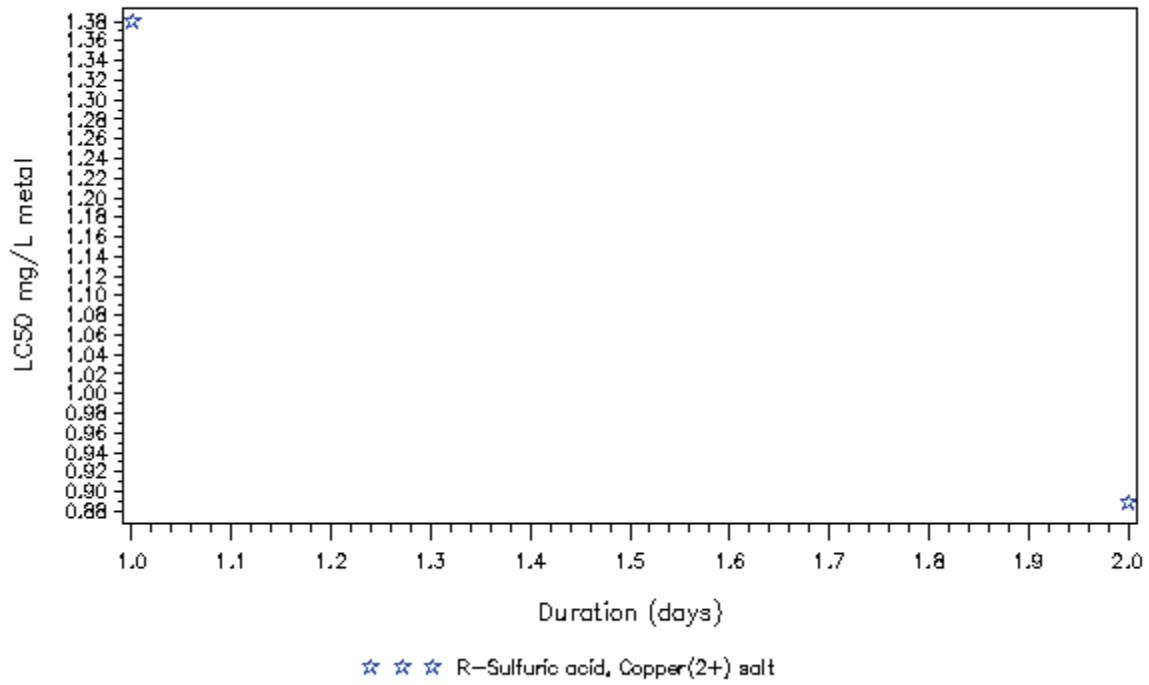


Tubifex tubifex exposed to Copper at T>15C in soft water

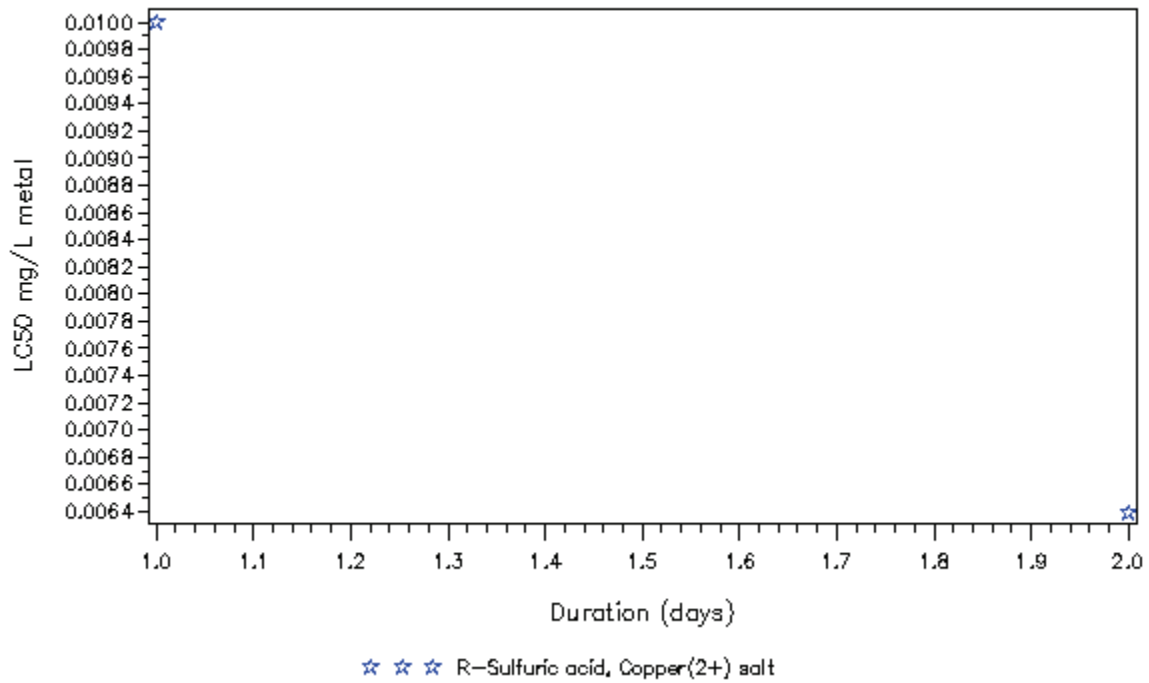


S – Static Test, F – Flowthrough Test, R –Renewal Test

Tubifex tubifex exposed to Copper at T>15C in very hard water

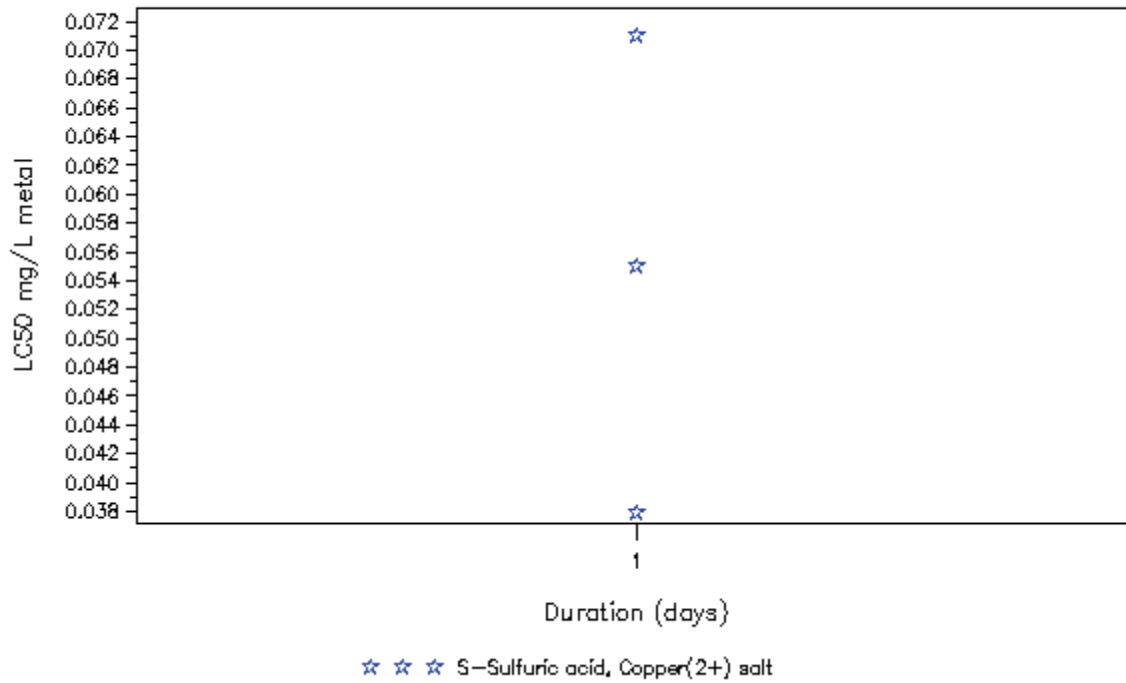


Tubifex tubifex exposed to Copper at T>15C in very soft water

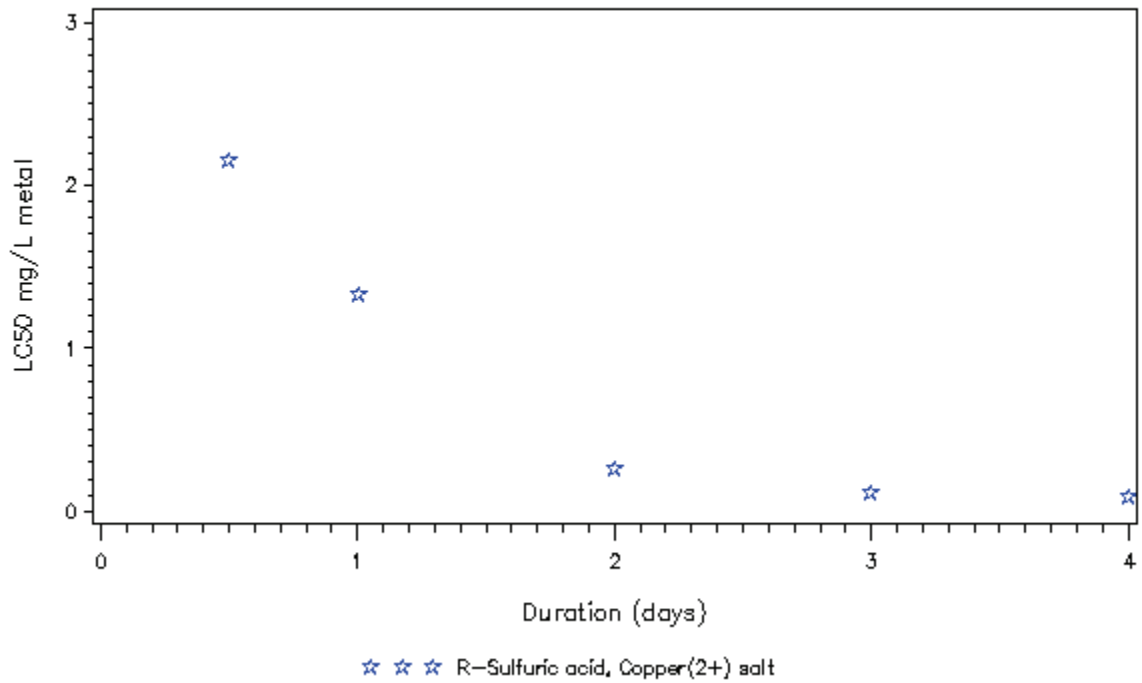


S – Static Test, F – Flowthrough Test, R –Renewal Test

Villosa iris exposed to Copper at T>15C in soft water

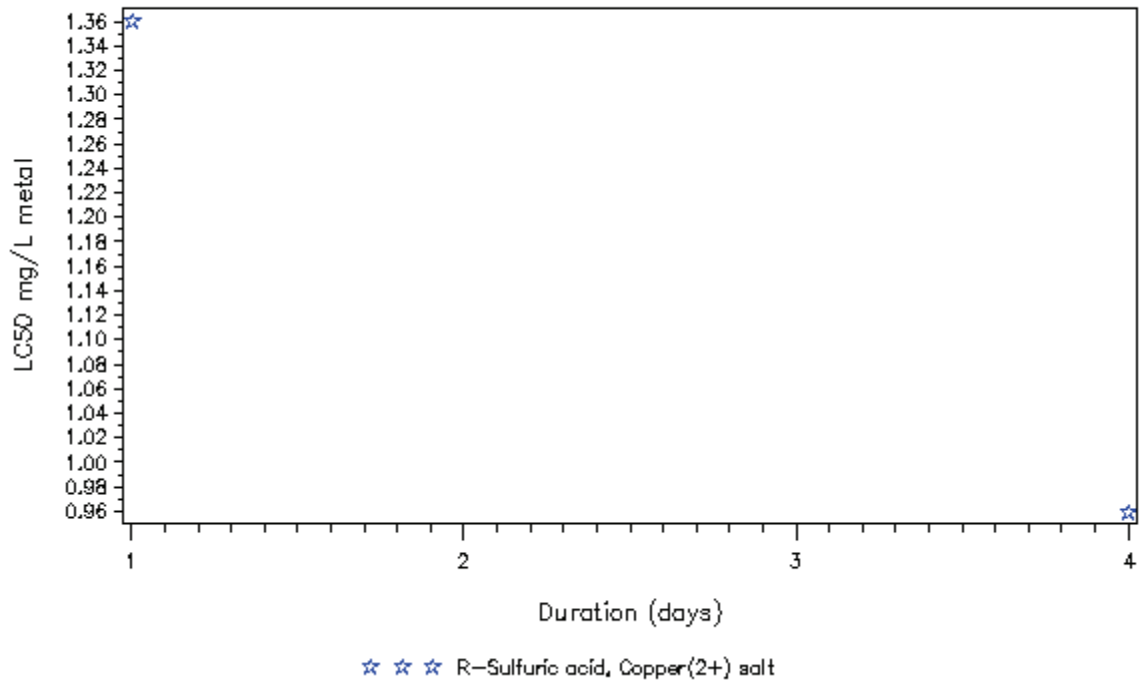


Viviparus bengalensis exposed to Copper at T>15C in hard water

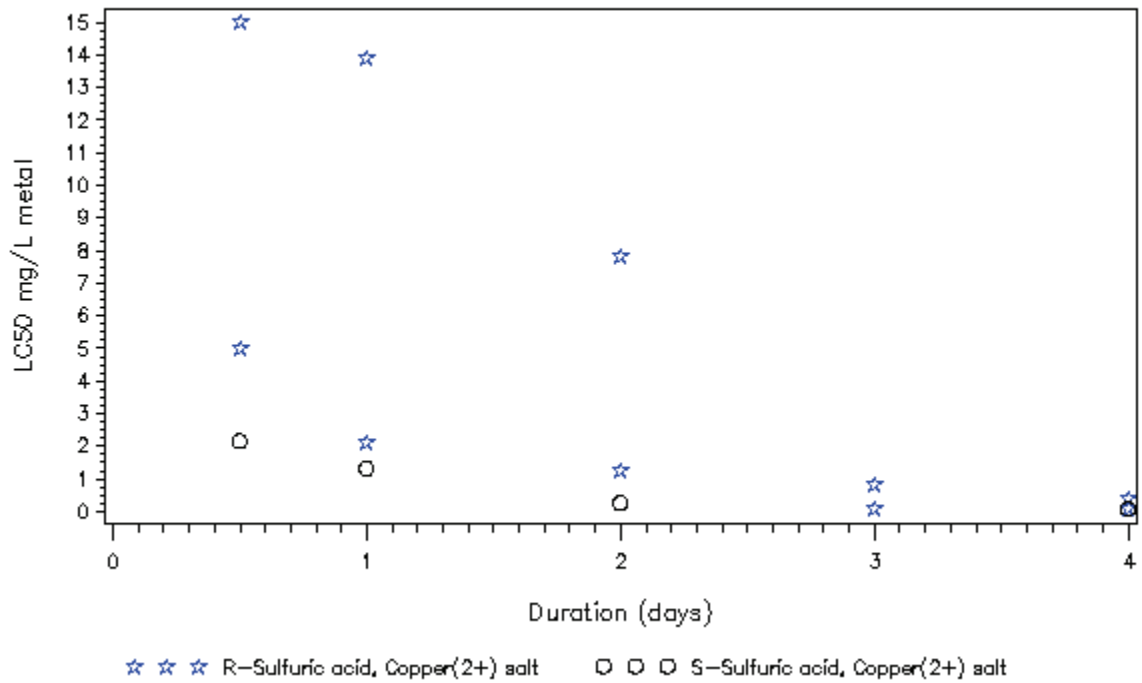


S – Static Test, F – Flowthrough Test, R –Renewal Test

Viviparus bengalensis exposed to Copper at T>15C in soft water

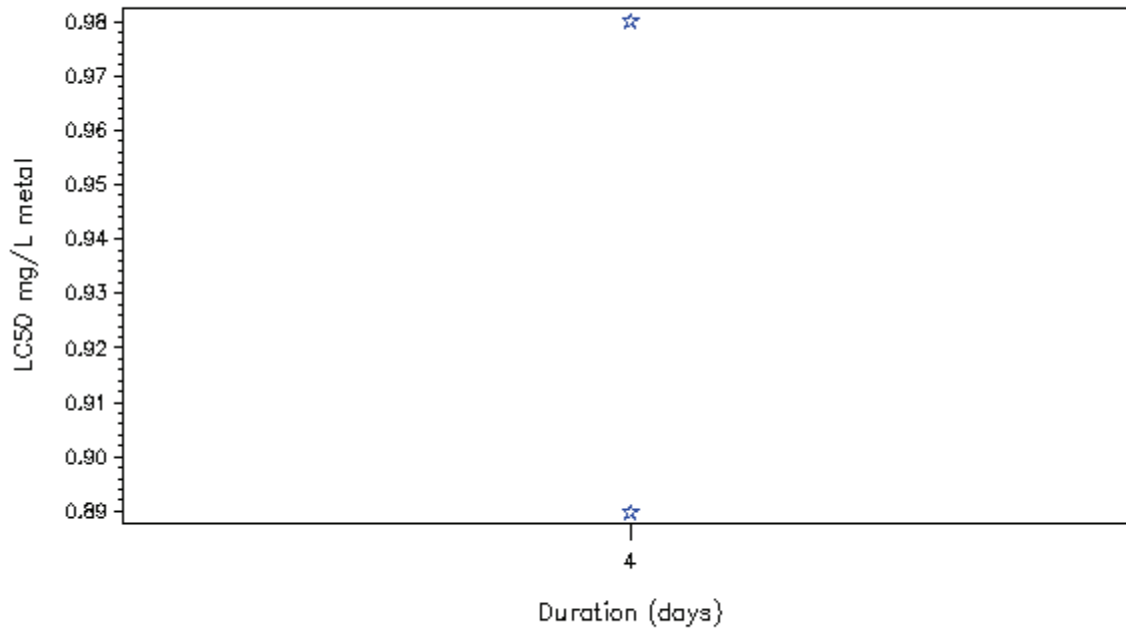


Viviparus bengalensis exposed to Copper at T>15C in very hard water



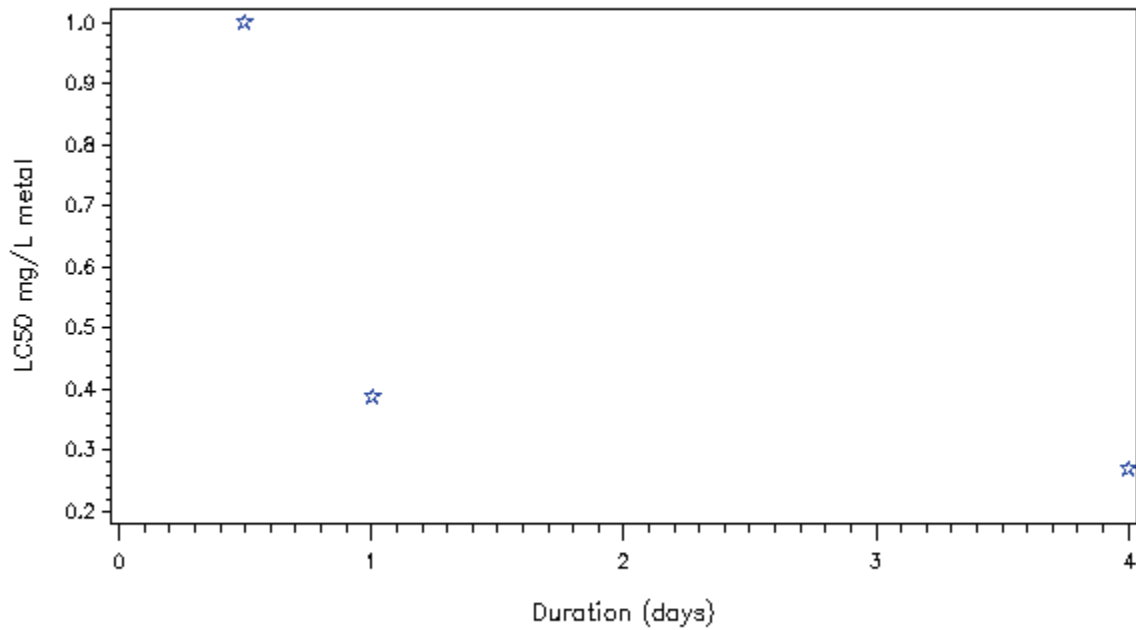
S – Static Test, F – Flowthrough Test, R –Renewal Test

Xenopus laevis exposed to Copper at T>15C in moderate water



☆☆☆ R-Sulfuric acid, Copper(2+) salt

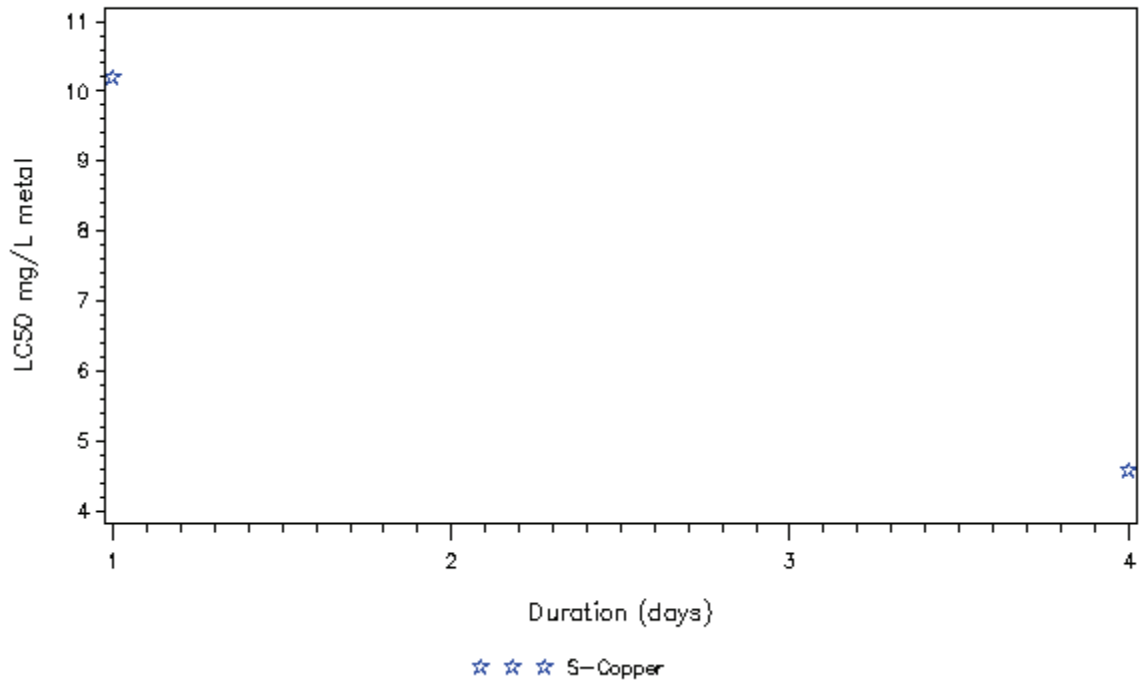
Xyrauchen texanus exposed to Copper at T>15C in hard water



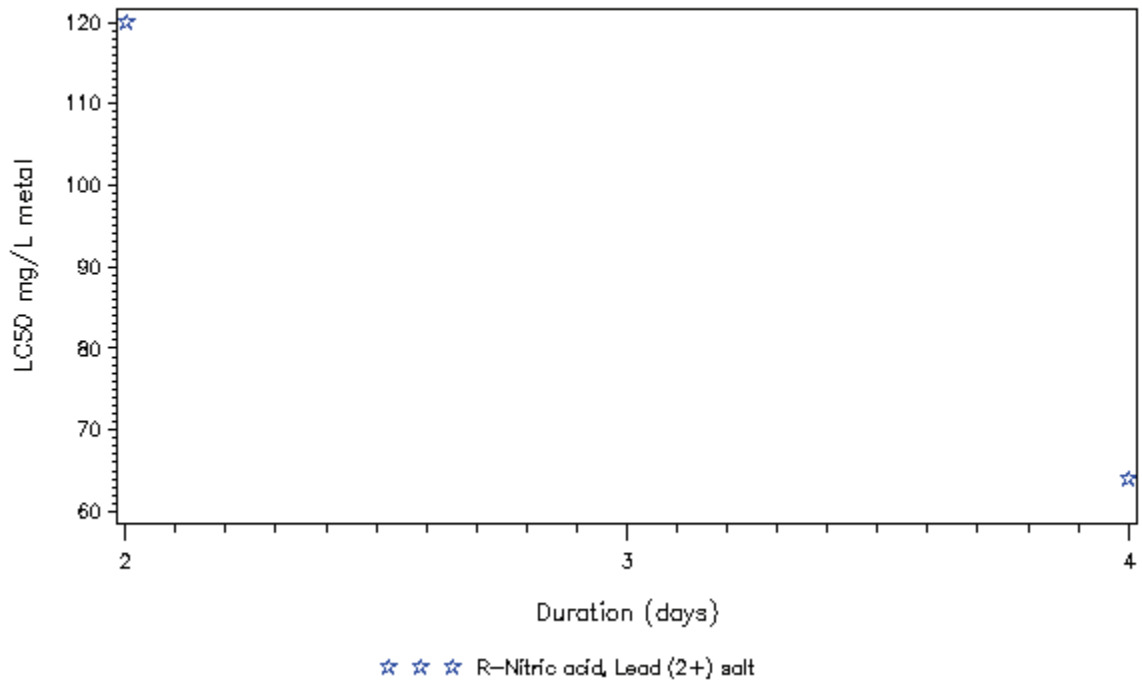
☆☆☆ S-Sulfuric acid, Copper(2+) salt

S – Static Test, F – Flowthrough Test, R –Renewal Test

Zygoptera exposed to Copper at T>15C in soft water

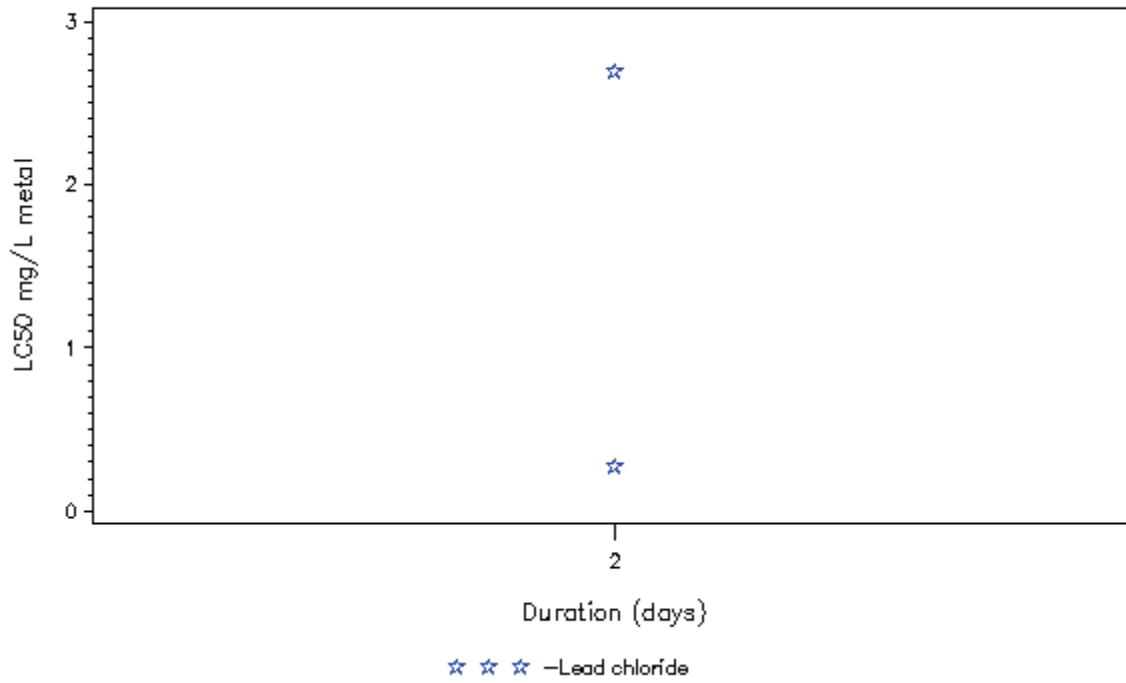


Asellus aquaticus exposed to Lead at T<=15C in soft water

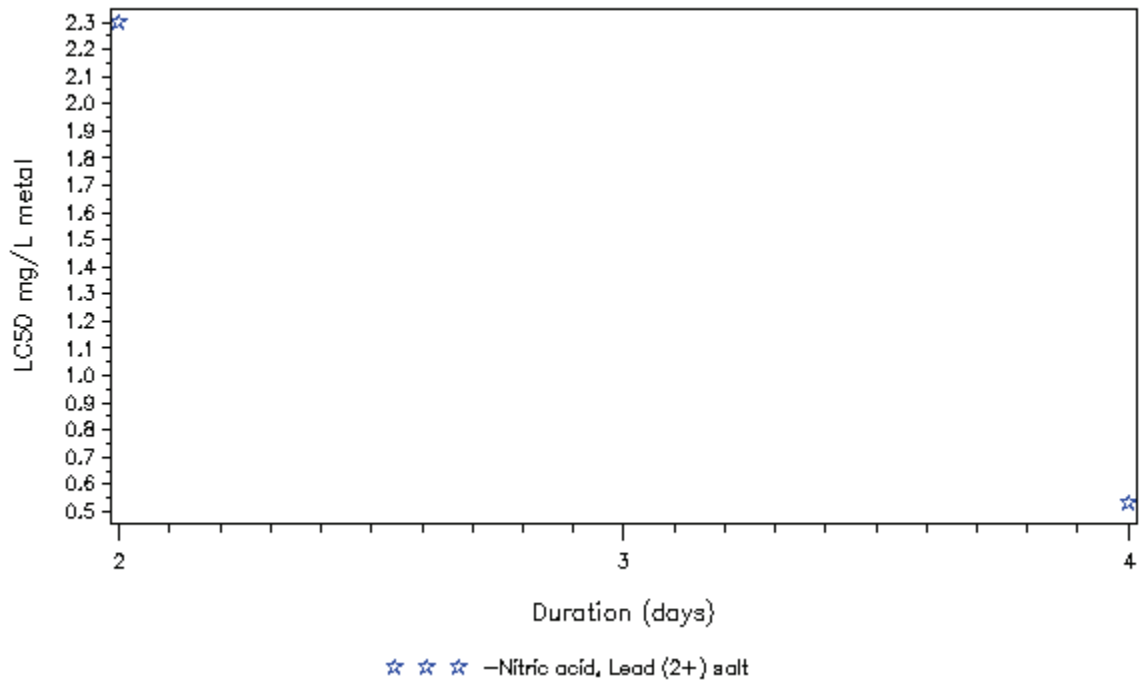


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ceriodaphnia dubia exposed to Lead at T>15C in very hard water

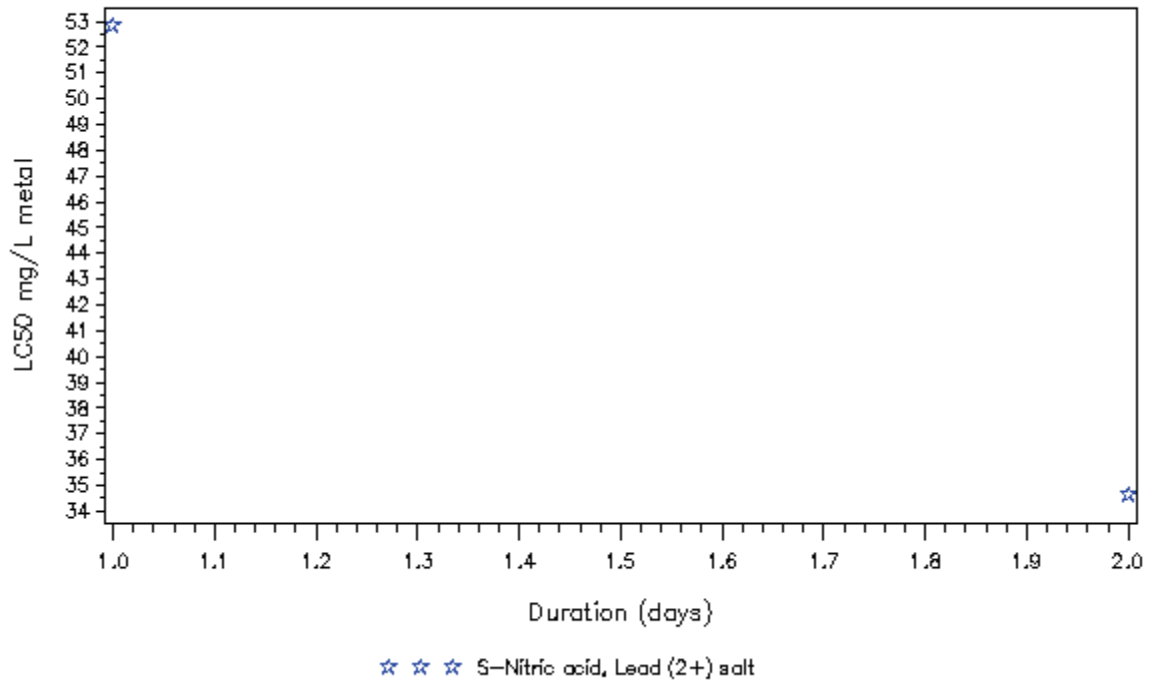


Ceriodaphnia reticulata exposed to Lead at T>15C in soft water

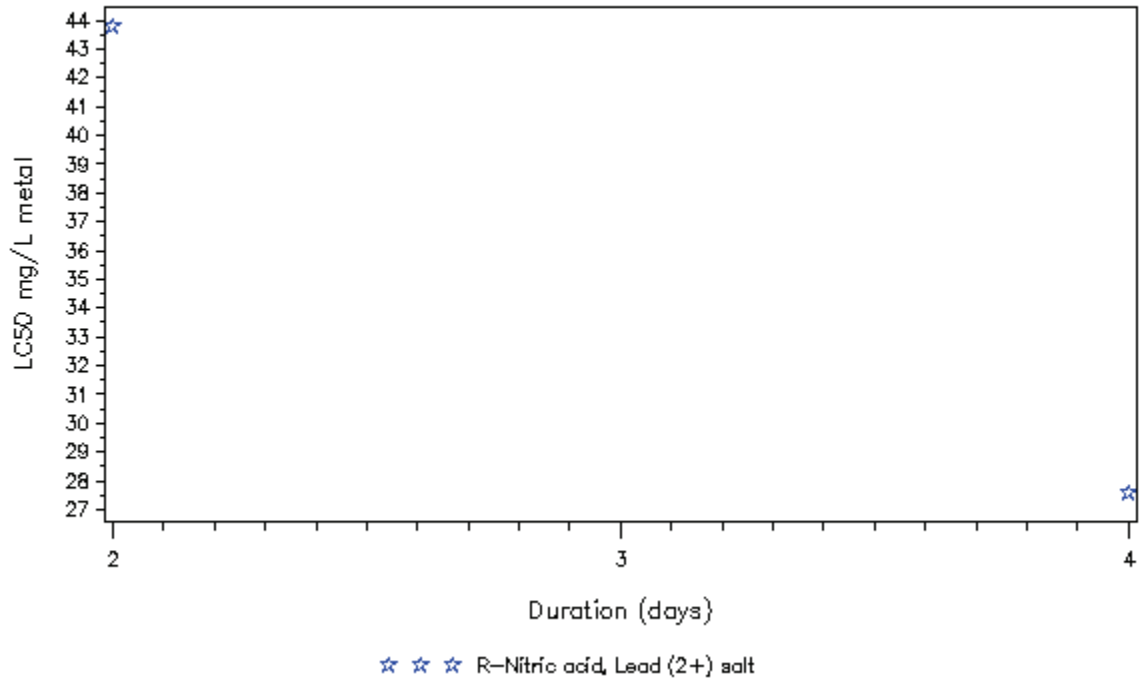


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus tentans exposed to Lead at T<=15C in soft water

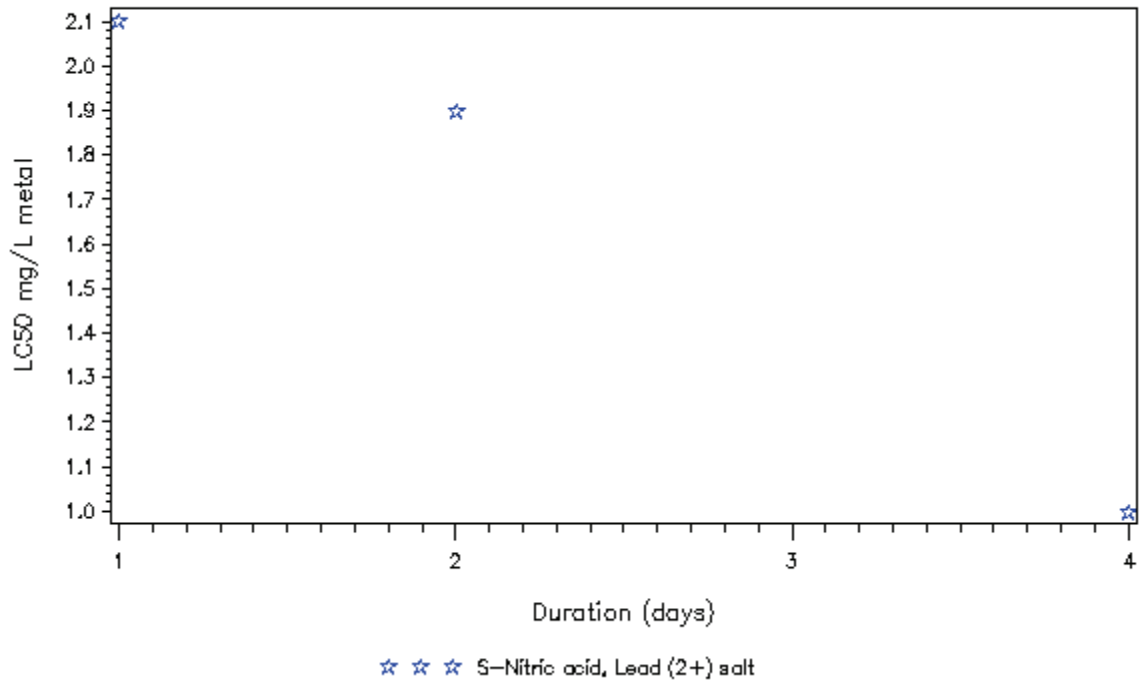


Crangonyx pseudogracilis exposed to Lead at T<=15C in soft water

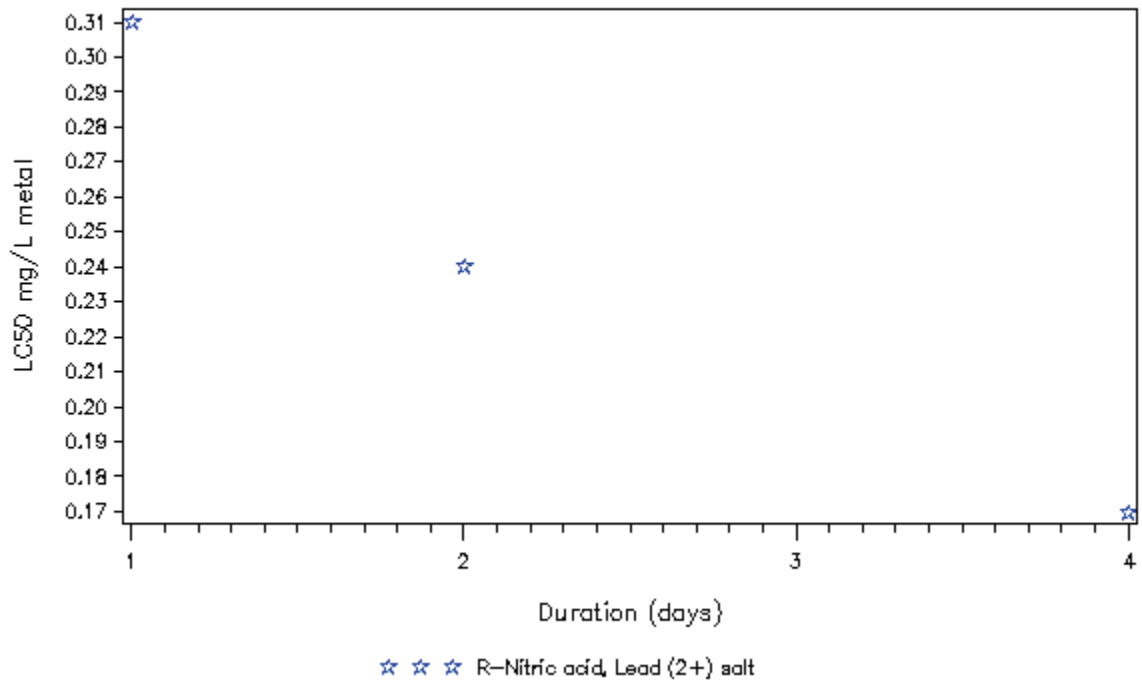


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinidae exposed to Lead at T>15C in very soft water

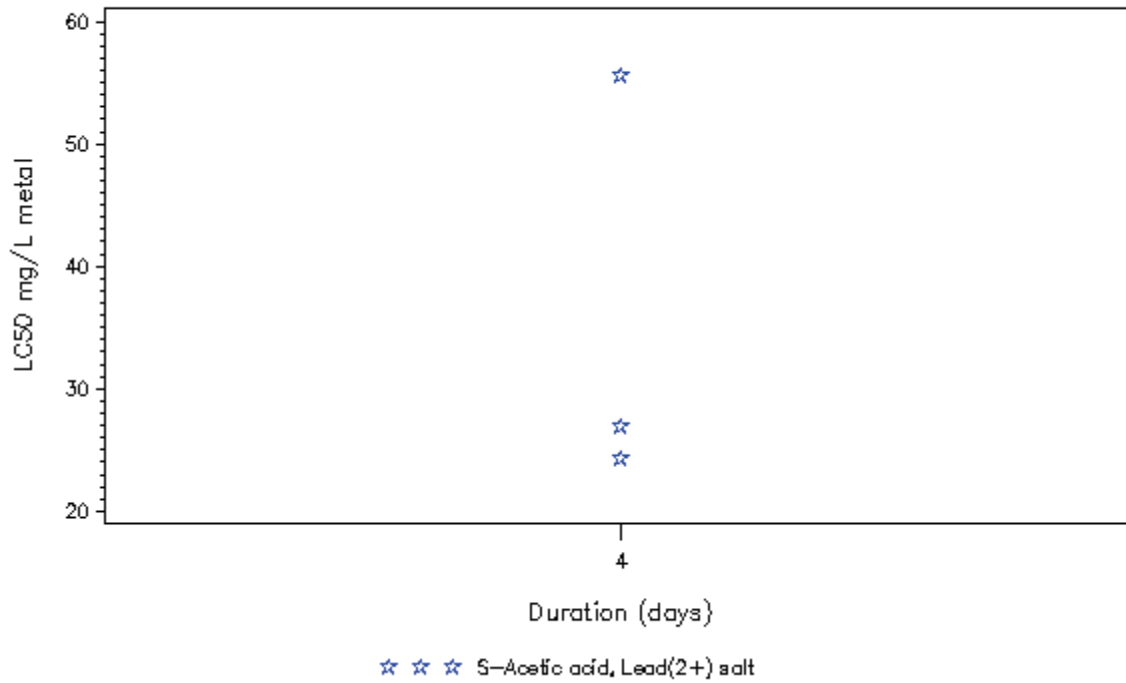


Cyprinus carpio exposed to Lead at T>15C in moderate water

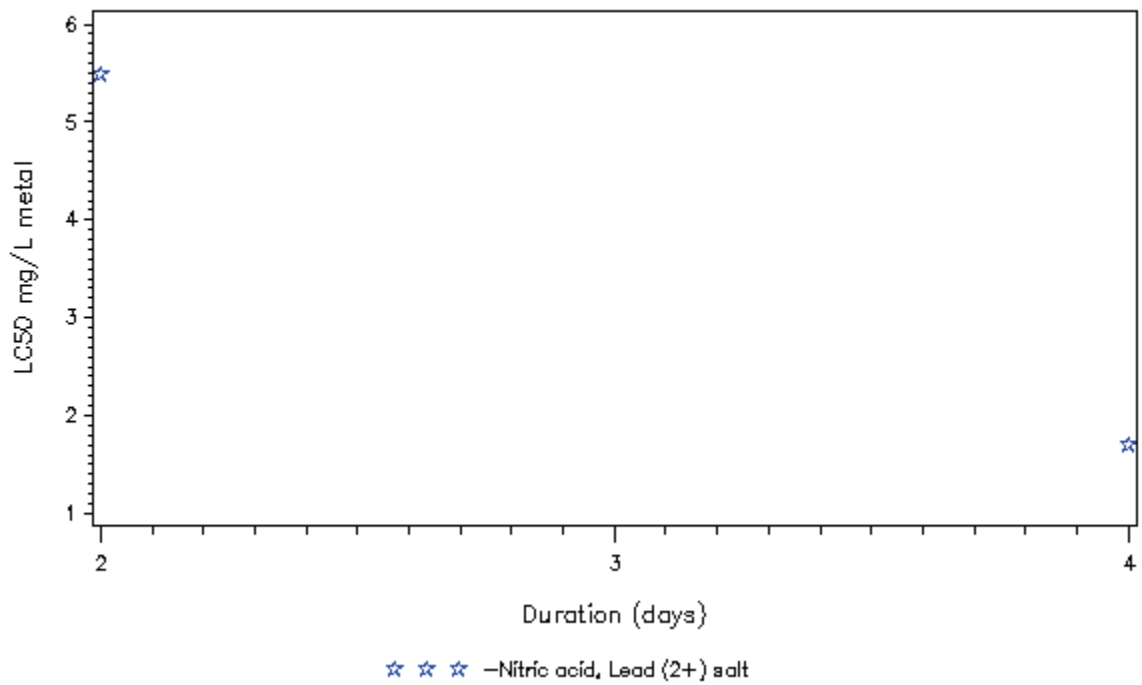


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Lead at T>15C in very hard water

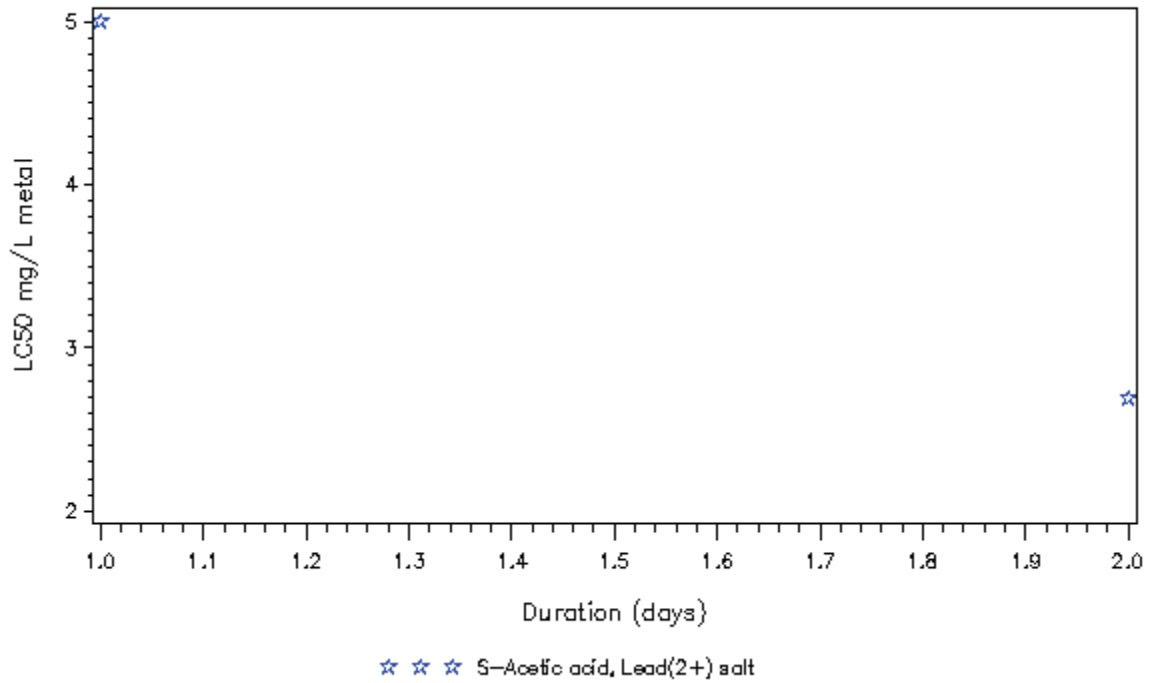


Daphnia carinata exposed to Lead at T>15C in soft water

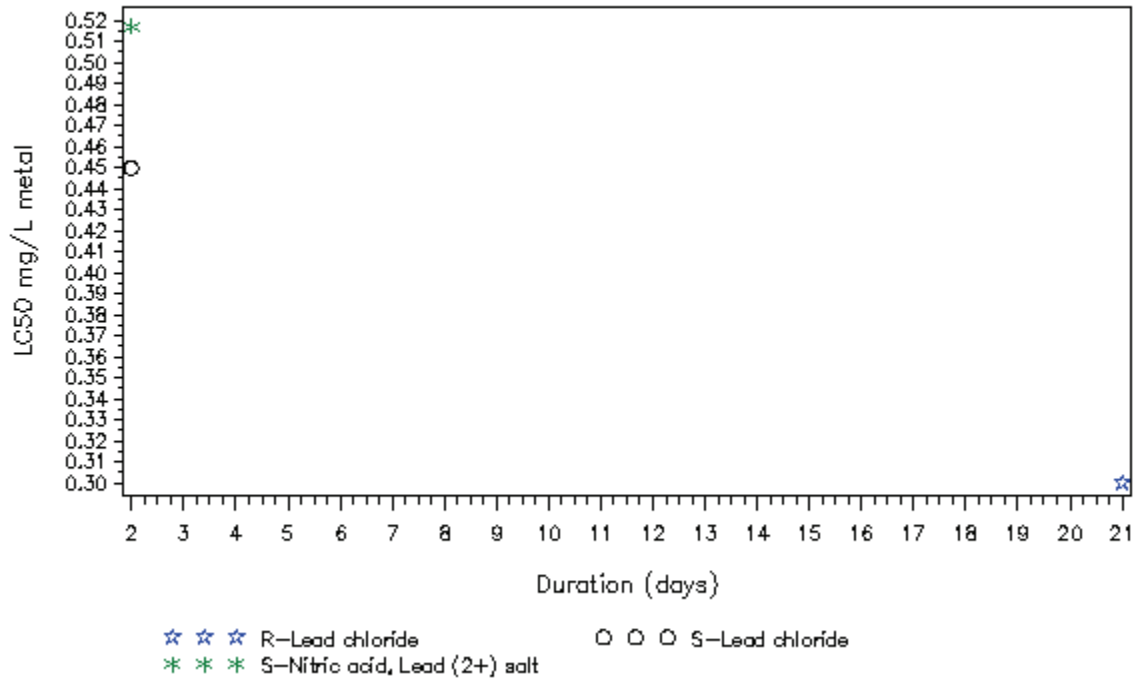


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Lead at T<=15C in very hard water

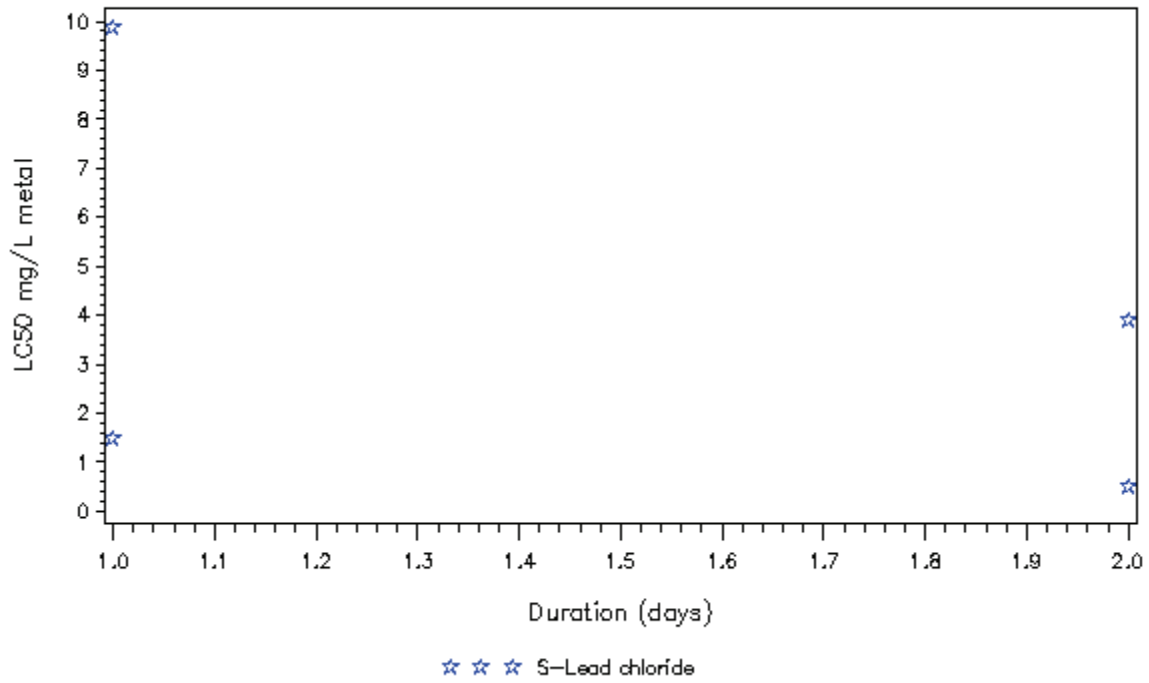


Daphnia magna exposed to Lead at T>15C in soft water

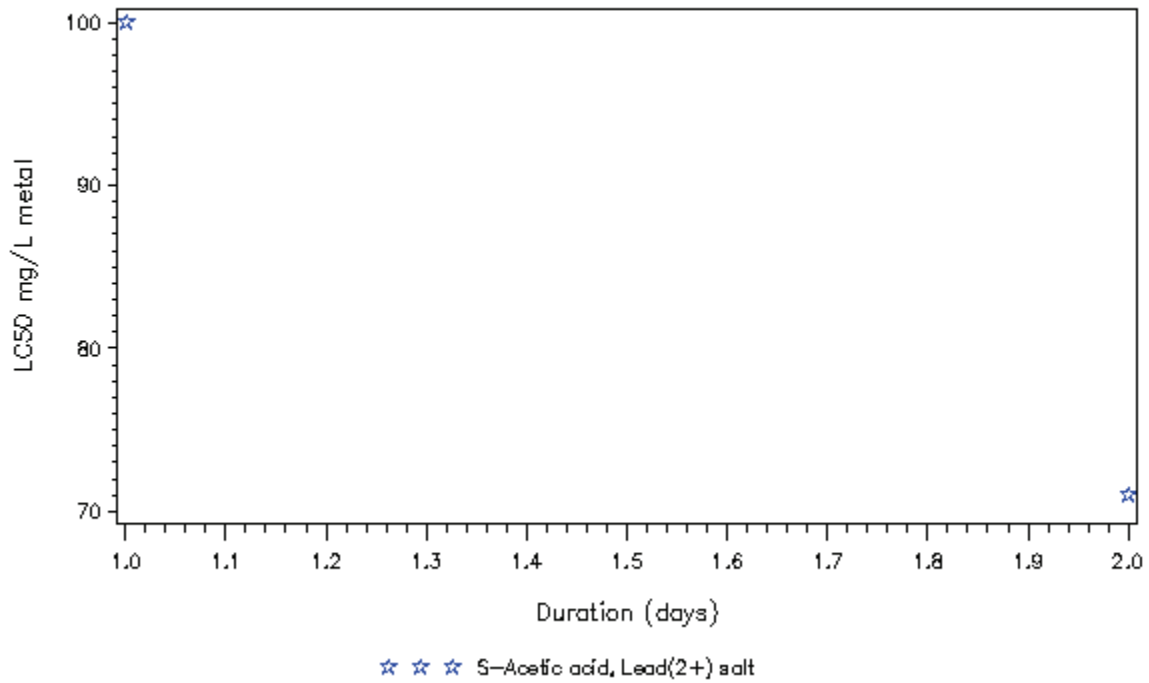


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia pulex exposed to Lead at T>15C in soft water

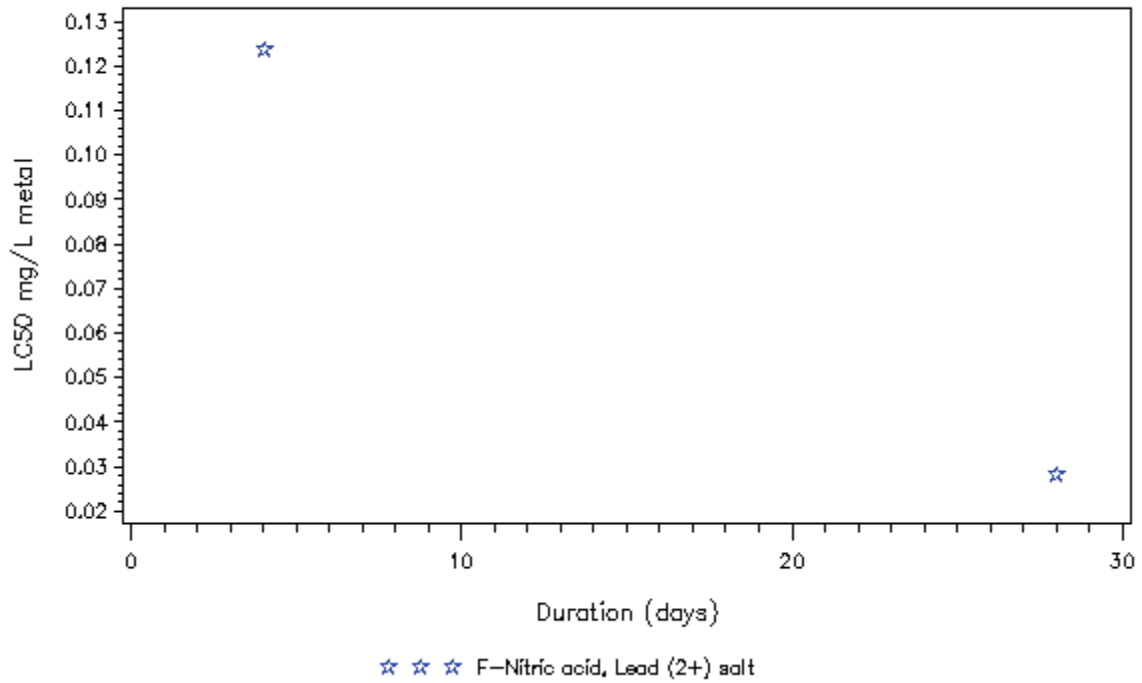


Elmía livescens exposed to Lead at T>15C in hard water

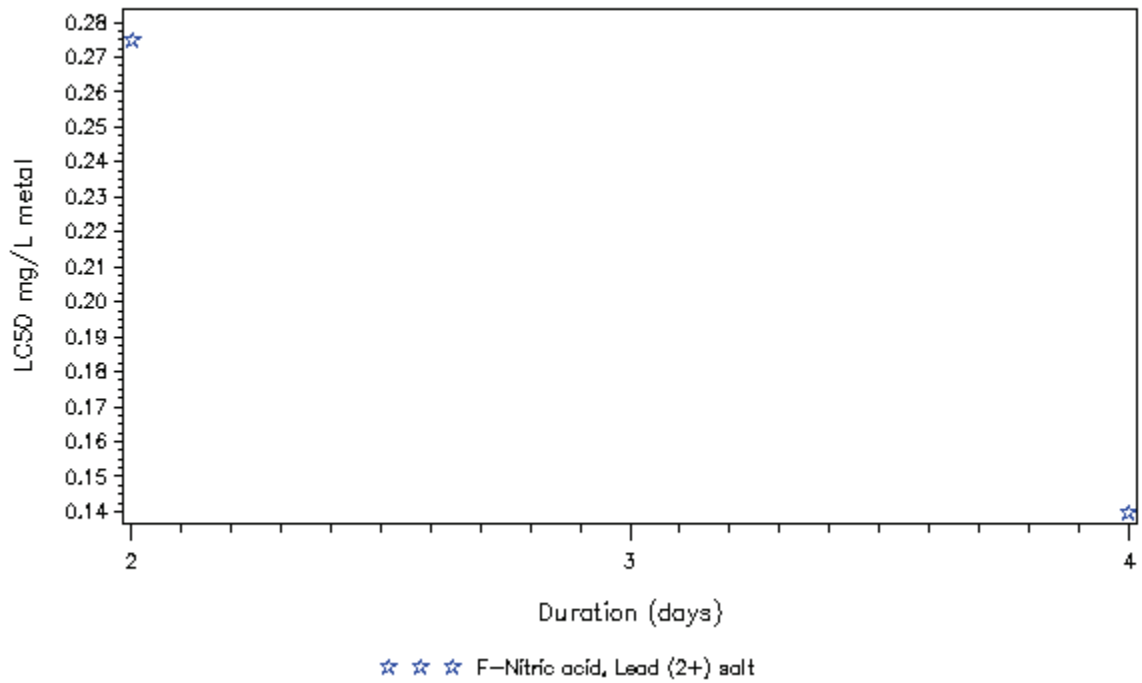


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gammarus pseudolimnaeus exposed to Lead at T<=15C in soft water

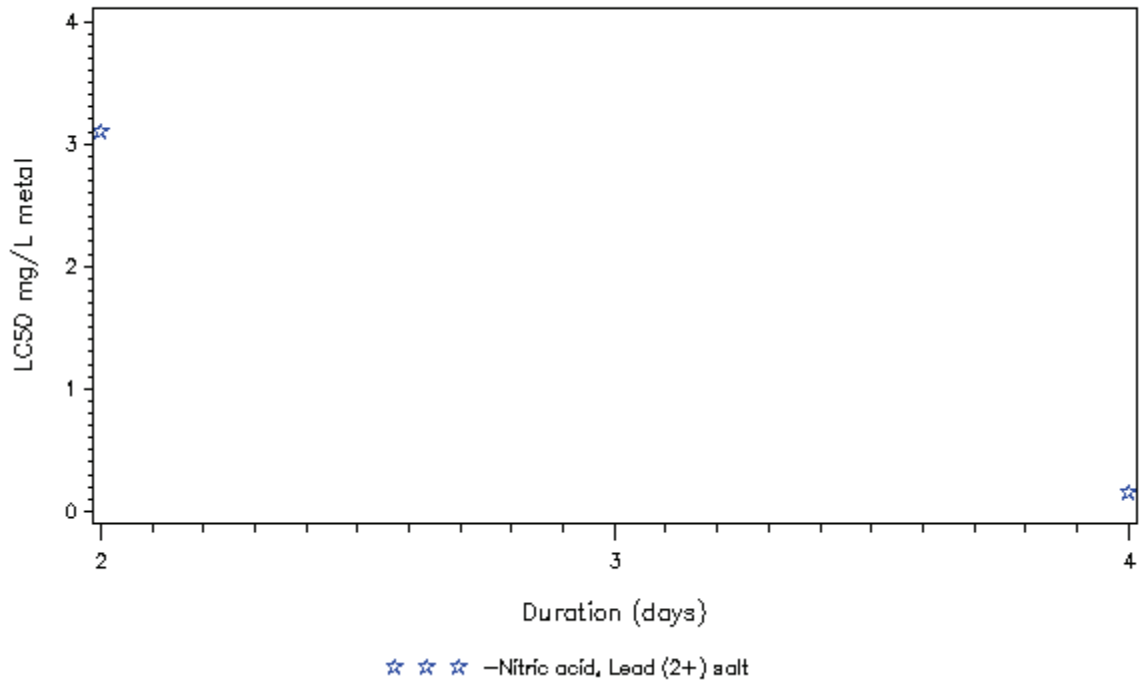


Gammarus pseudolimnaeus exposed to Lead at T>15C in soft water

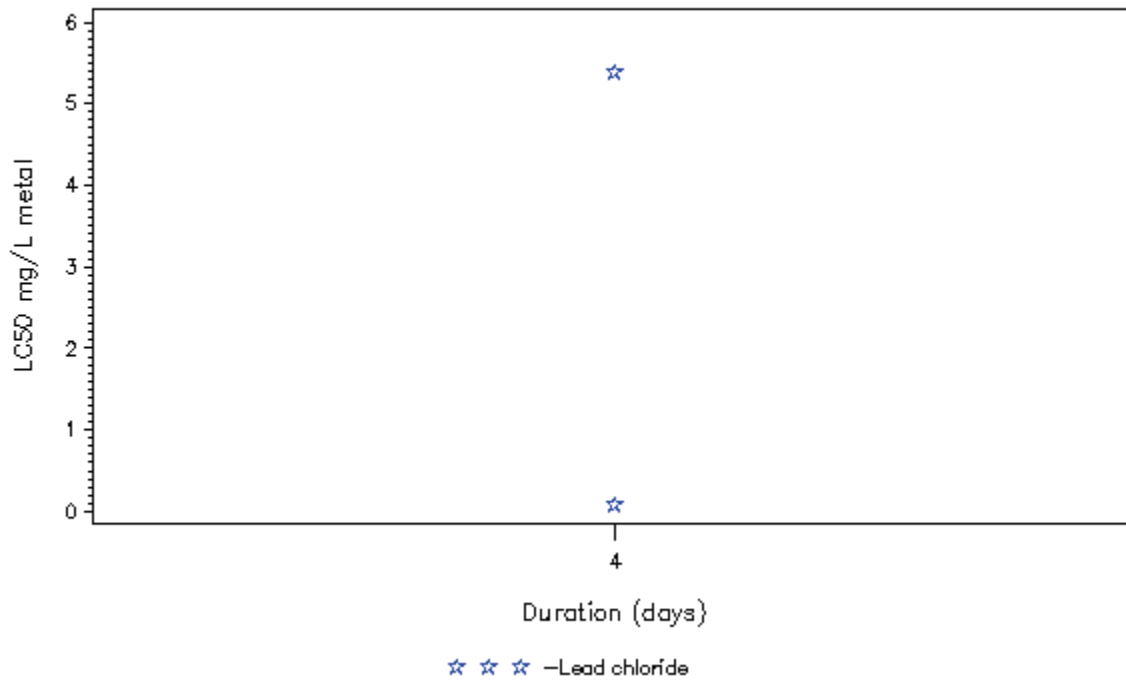


S – Static Test, F – Flowthrough Test, R –Renewal Test

Heliodiaptomus viduus exposed to Lead at T>15C in soft water

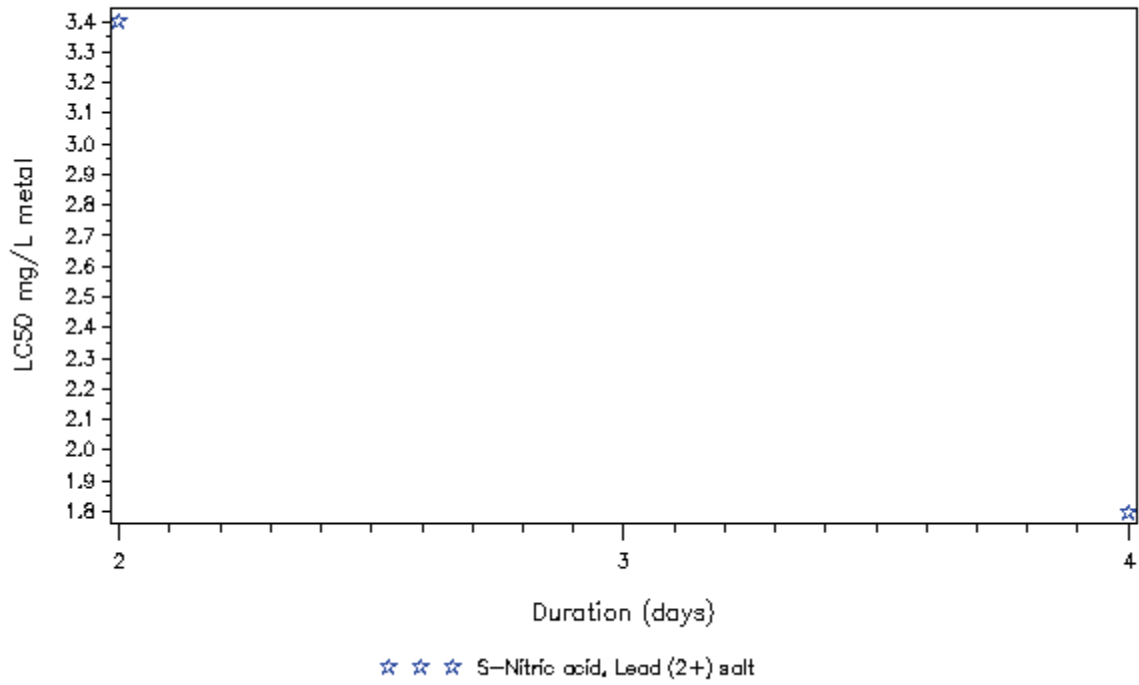


Hyalella azteca exposed to Lead at T>15C in very hard water

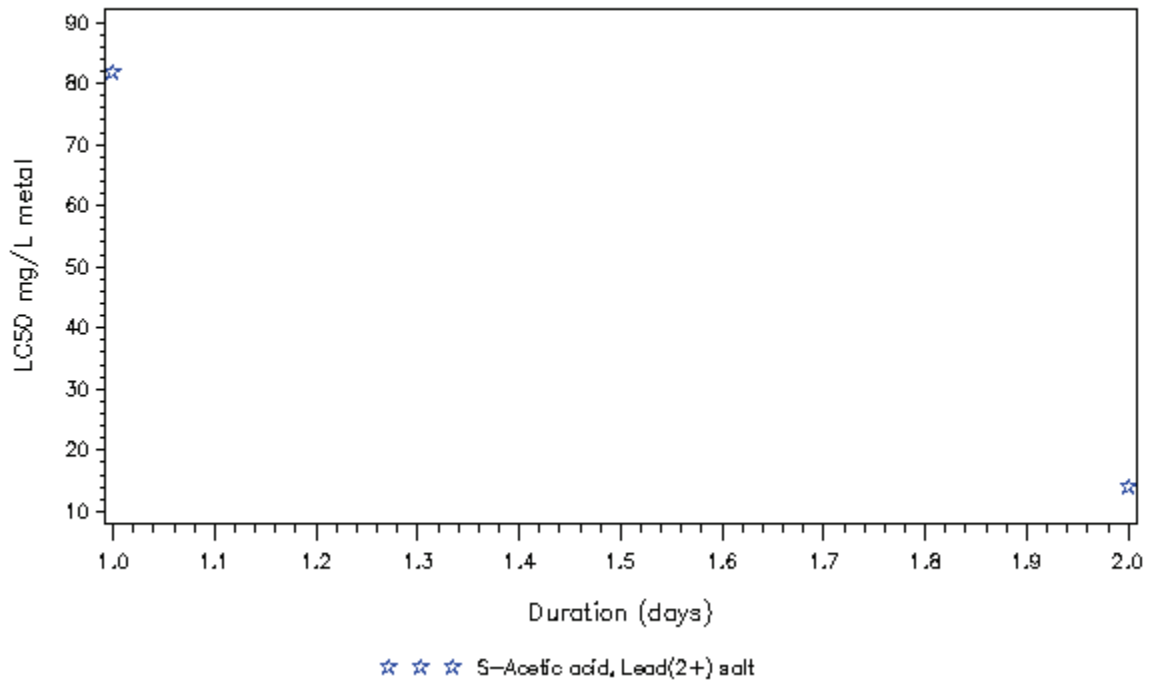


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lumbriculus variegatus exposed to Lead at T>15C in soft water

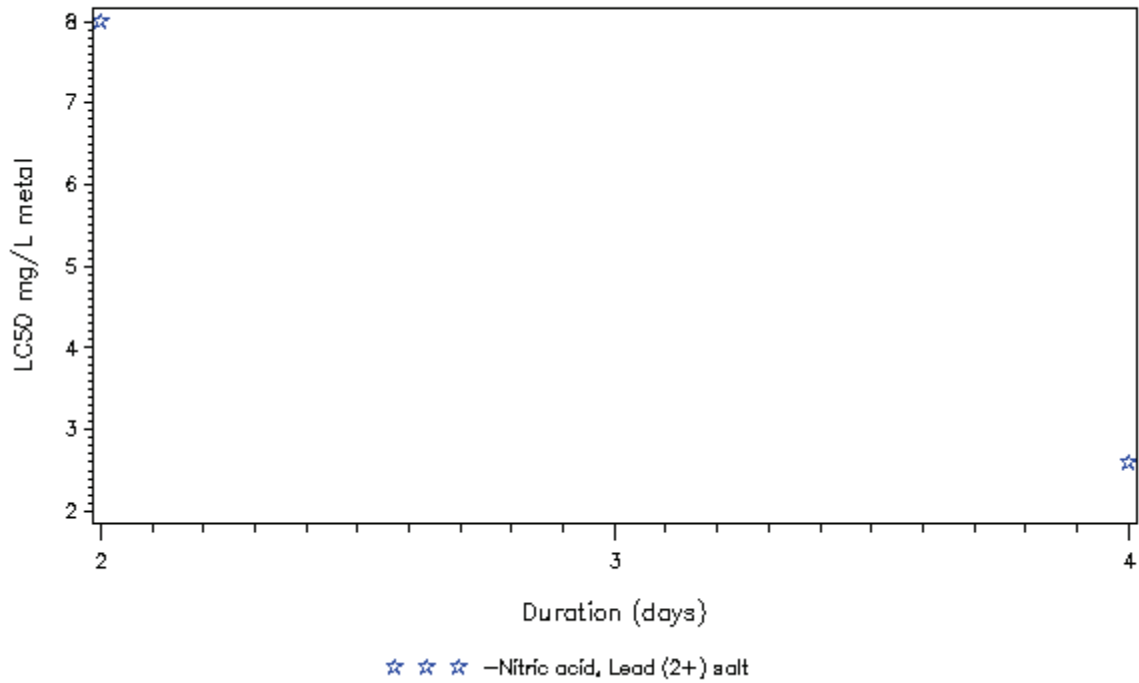


Lymnaea emarginata angulata exposed to Lead at T>15C in hard water

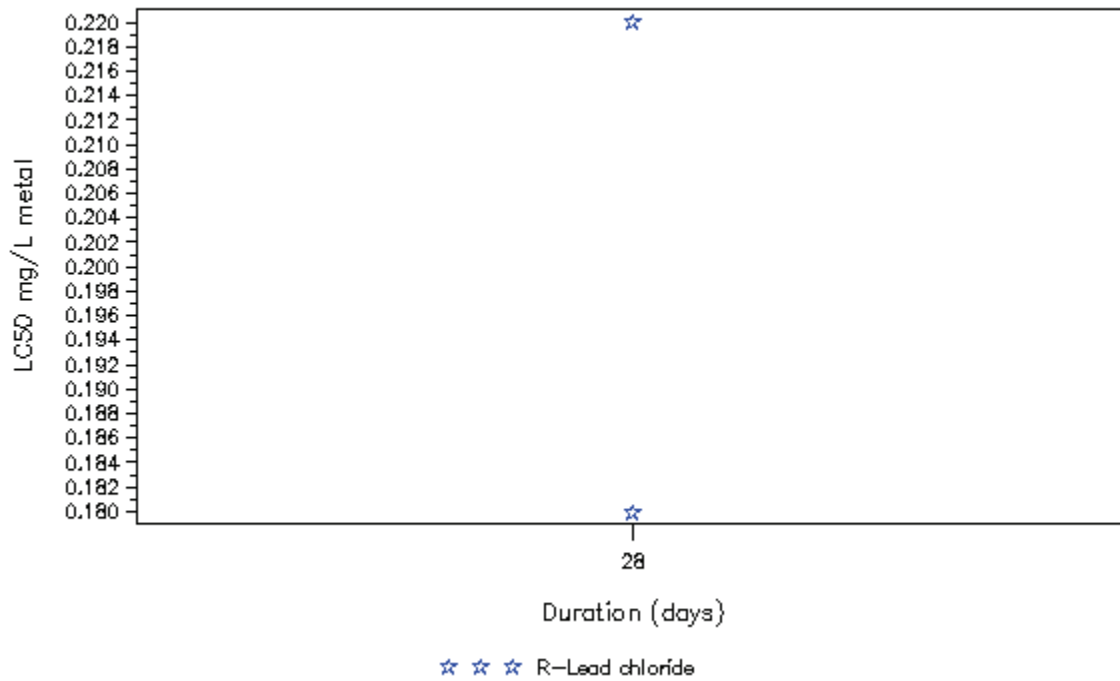


S – Static Test, F – Flowthrough Test, R –Renewal Test

Mesocyclops hyalinus exposed to Lead at T>15C in soft water

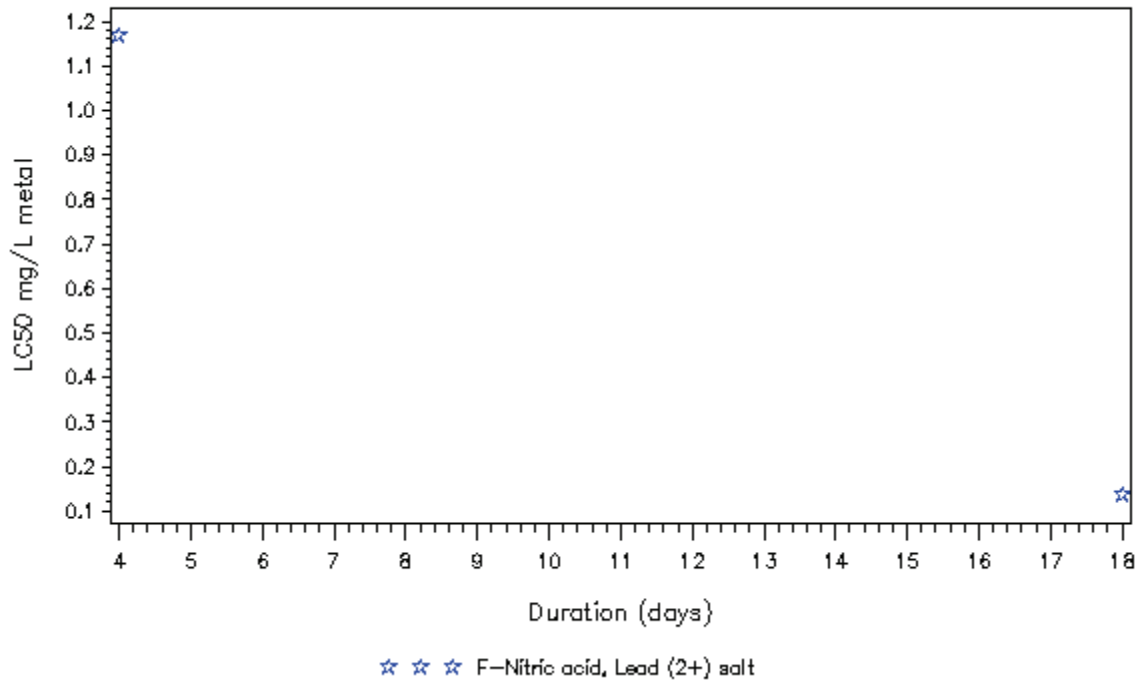


Oncorhynchus mykiss exposed to Lead at T<=15C in moderate water

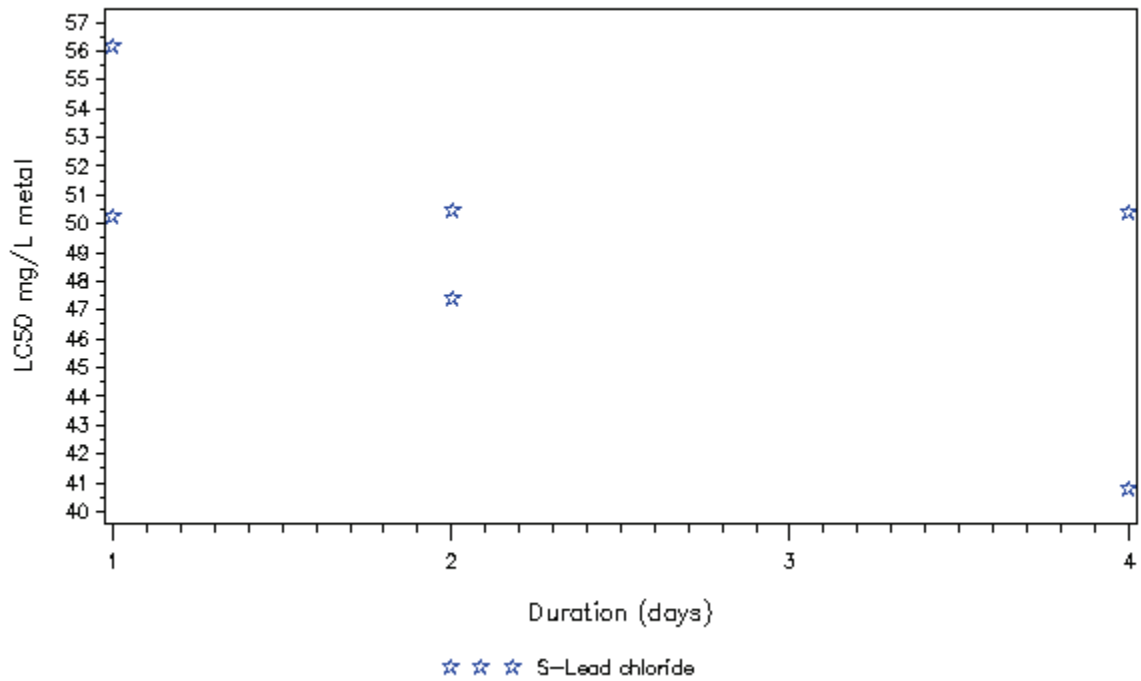


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Lead at T<=15C in soft water

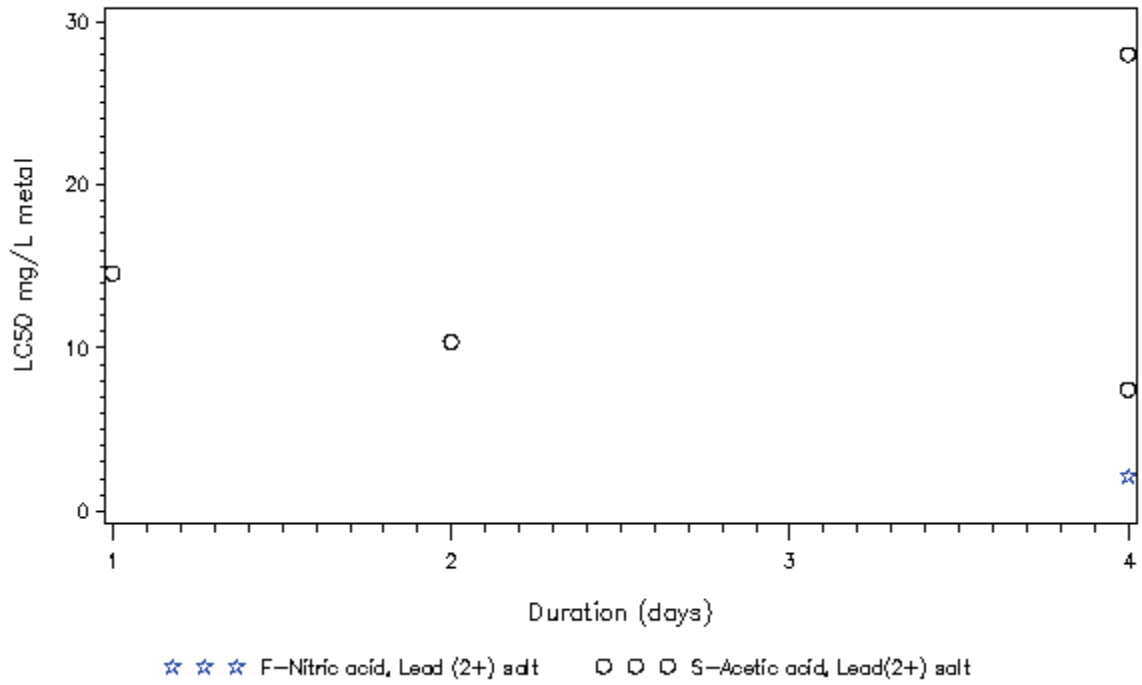


Philodina acuticornis exposed to Lead at T>15C in soft water

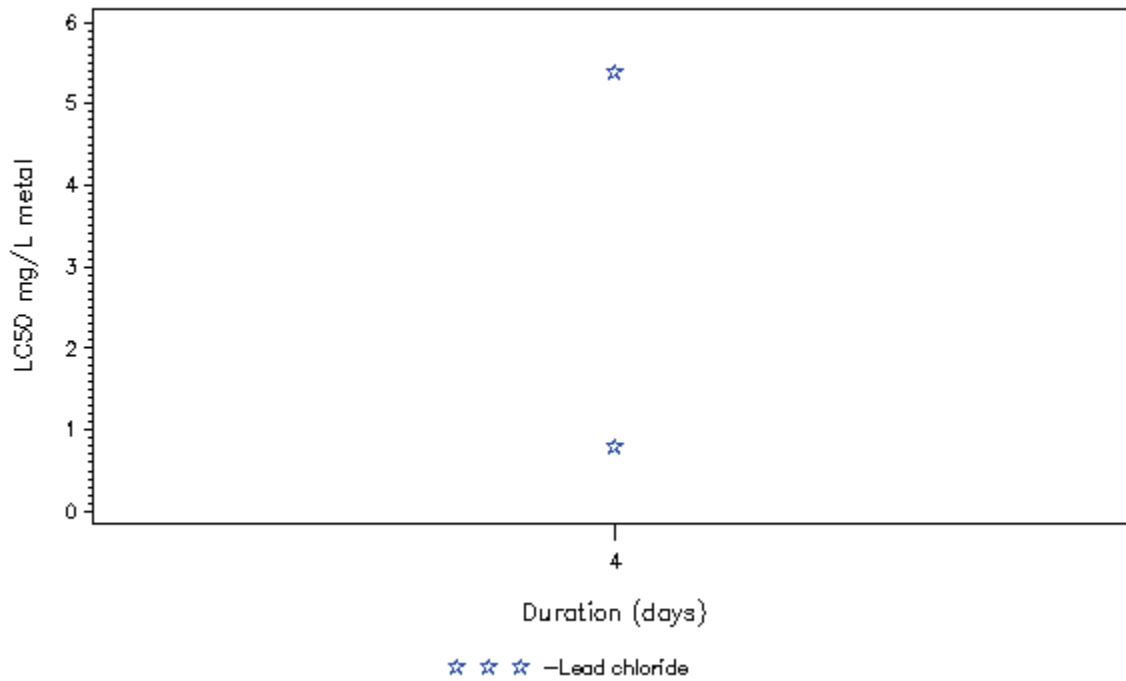


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Lead at T>15C in soft water

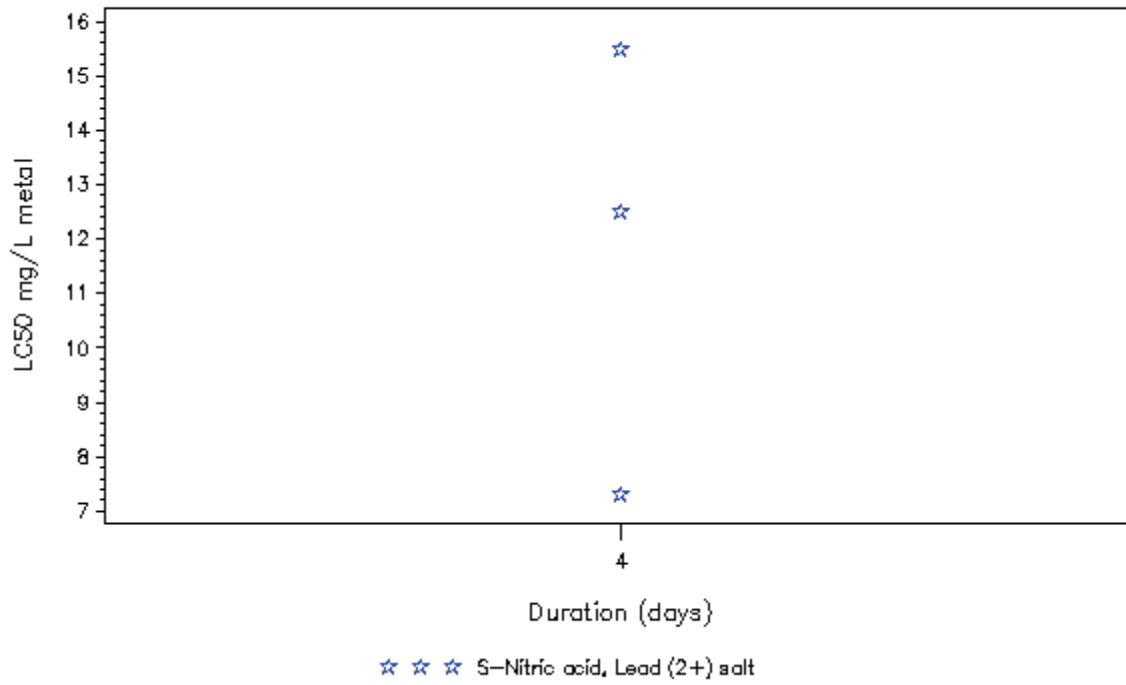


Pimephales promelas exposed to Lead at T>15C in very hard water

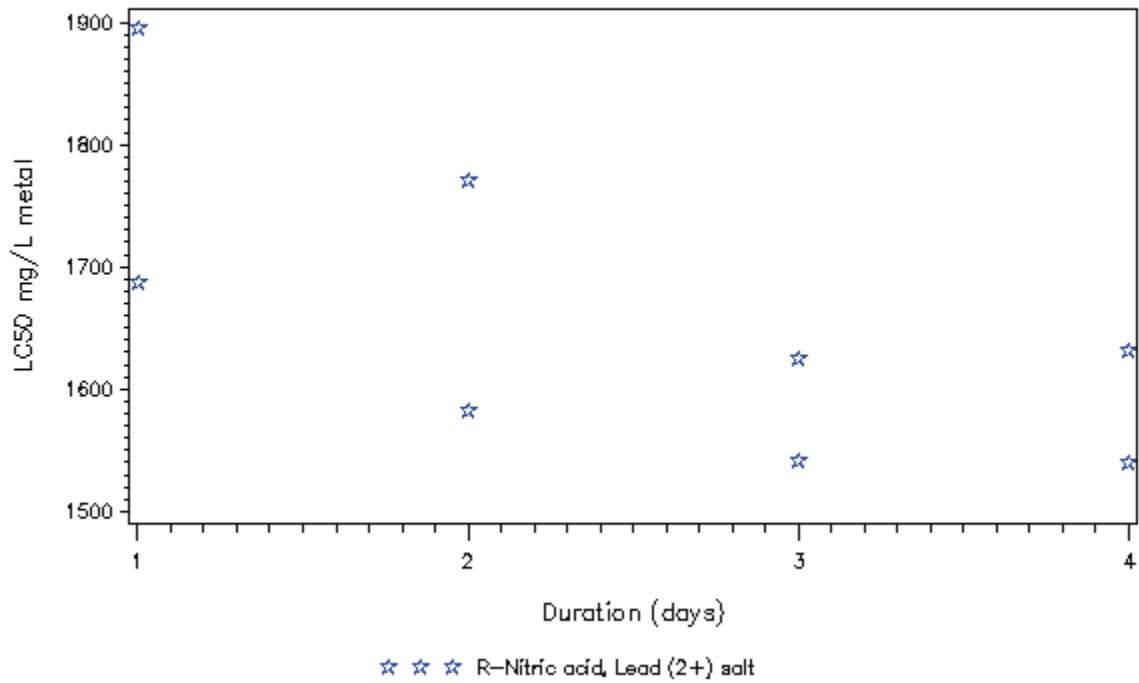


S – Static Test, F – Flowthrough Test, R –Renewal Test

Poecilia reticulata exposed to Lead at T>15C in hard water

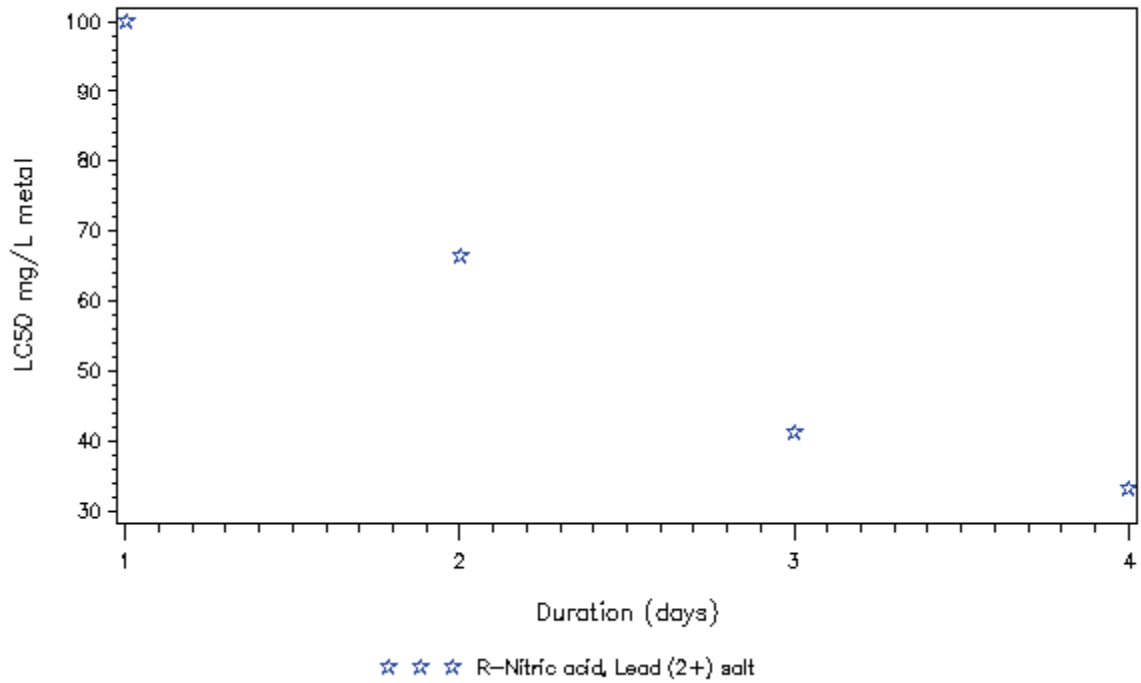


Rana cyanophlyctis exposed to Lead at T>15C in moderate water

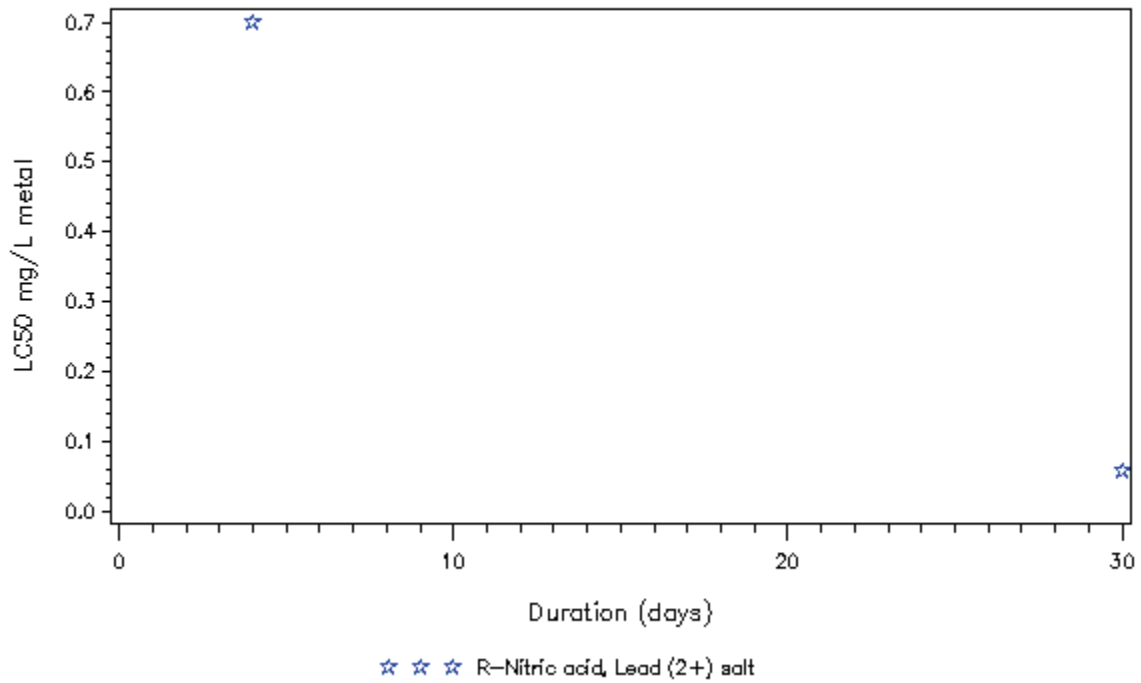


S – Static Test, F – Flowthrough Test, R –Renewal Test

Rana hexadactyla exposed to Lead at T<=15C in soft water

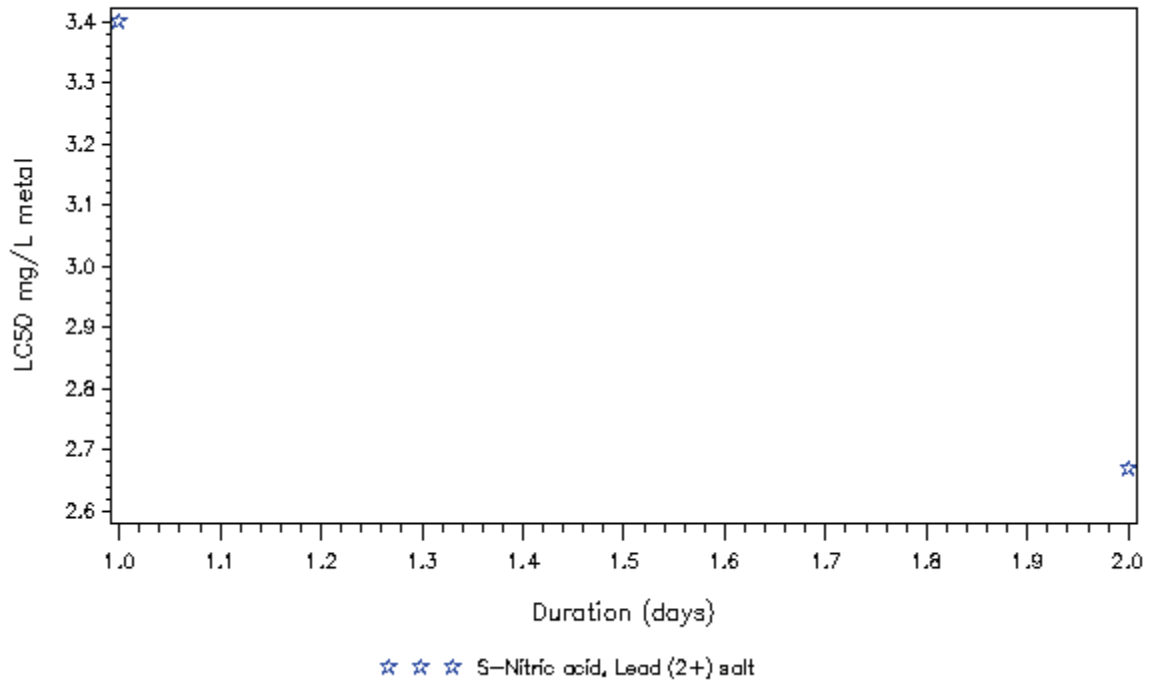


Salmo salar exposed to Lead at T<=15C in very soft water

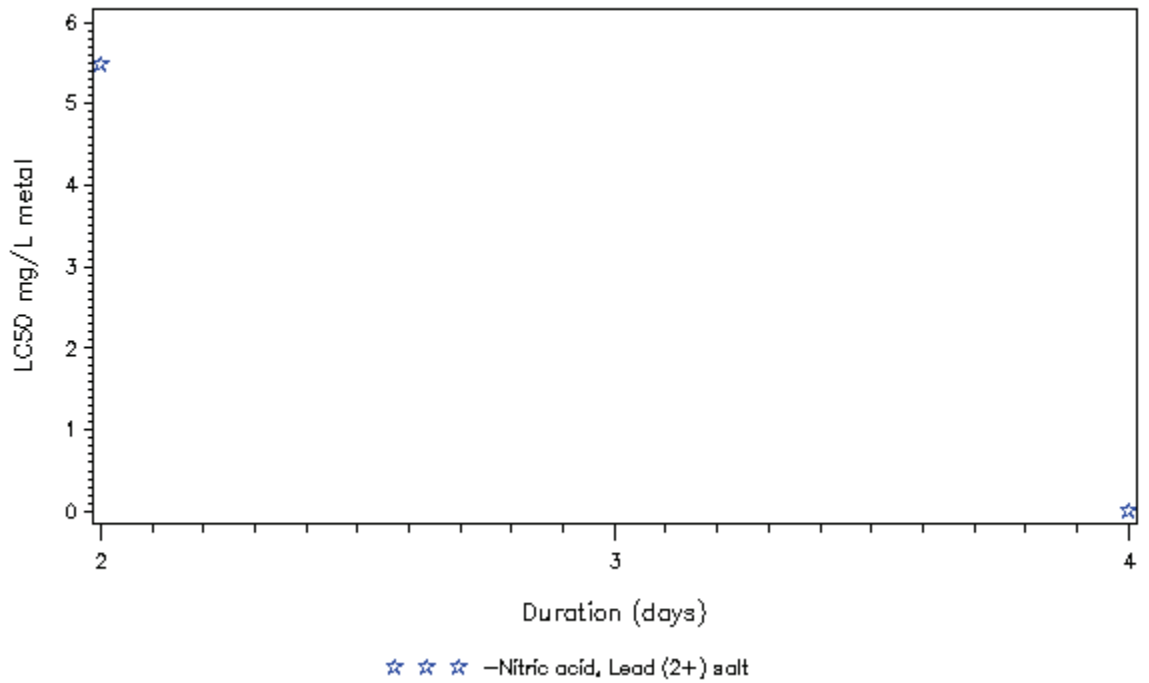


S – Static Test, F – Flowthrough Test, R –Renewal Test

Spirostomum ambiguum exposed to Lead at T>15C in very soft water

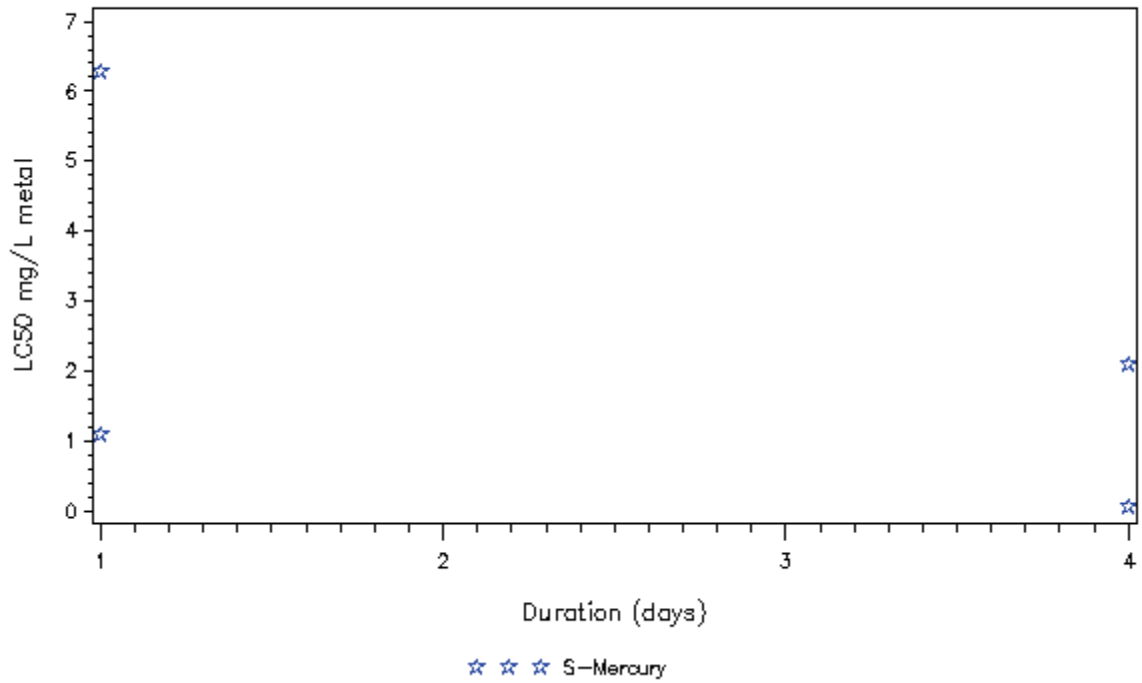


Stenocypris malcolmsoni exposed to Lead at T>15C in soft water

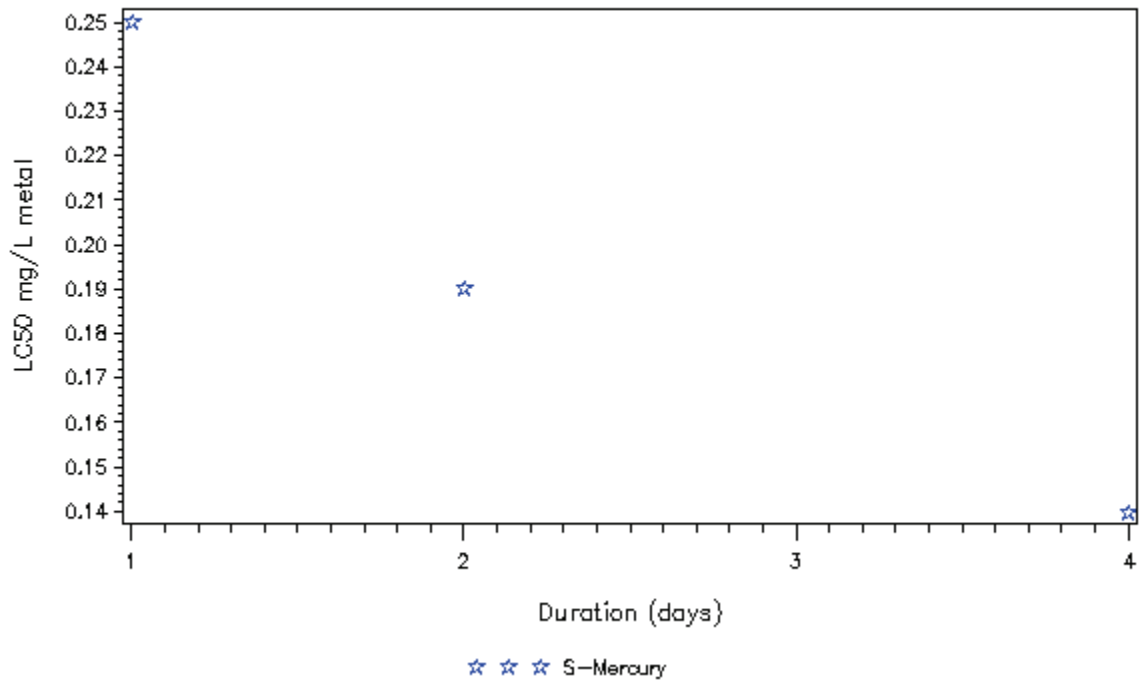


S – Static Test, F – Flowthrough Test, R –Renewal Test

Amnicola exposed to Mercury at T>15C in soft water

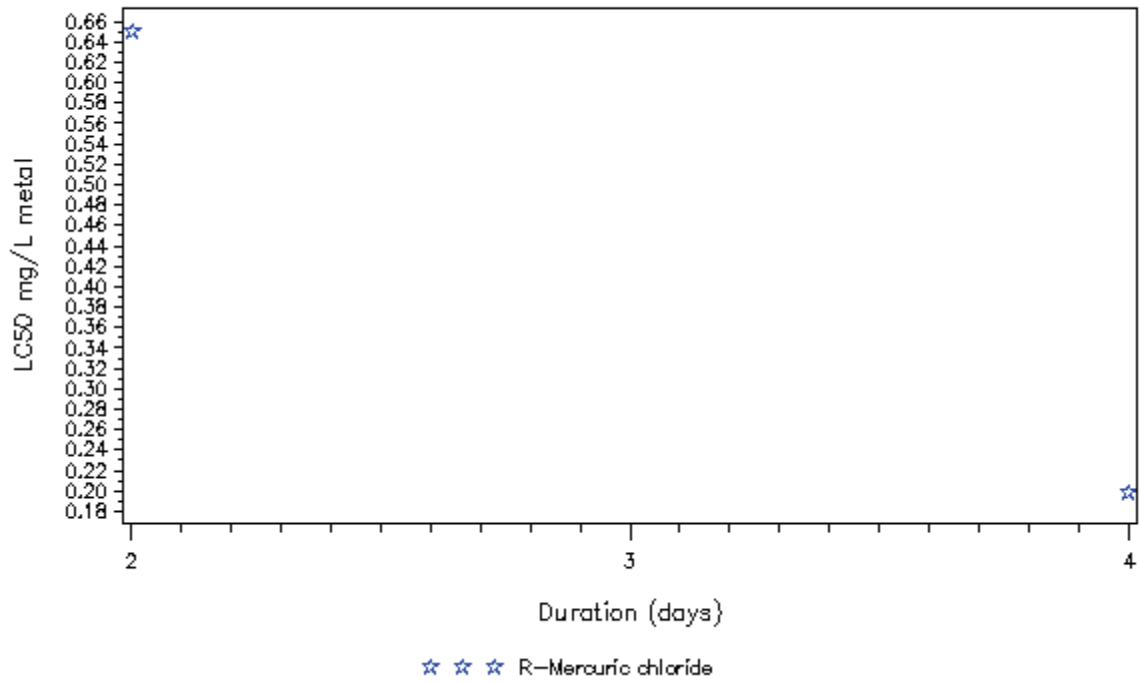


Anguilla rostrata exposed to Mercury at T>15C in soft water

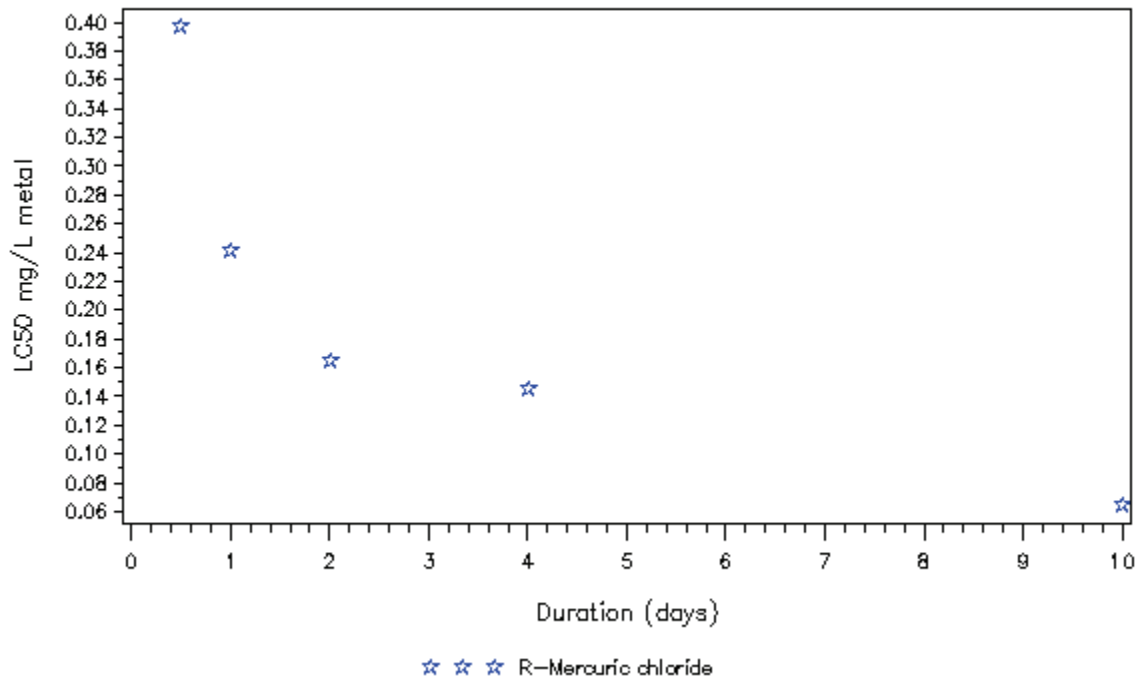


S – Static Test, F – Flowthrough Test, R –Renewal Test

Asellus aquaticus exposed to Mercury at T<=15C in soft water

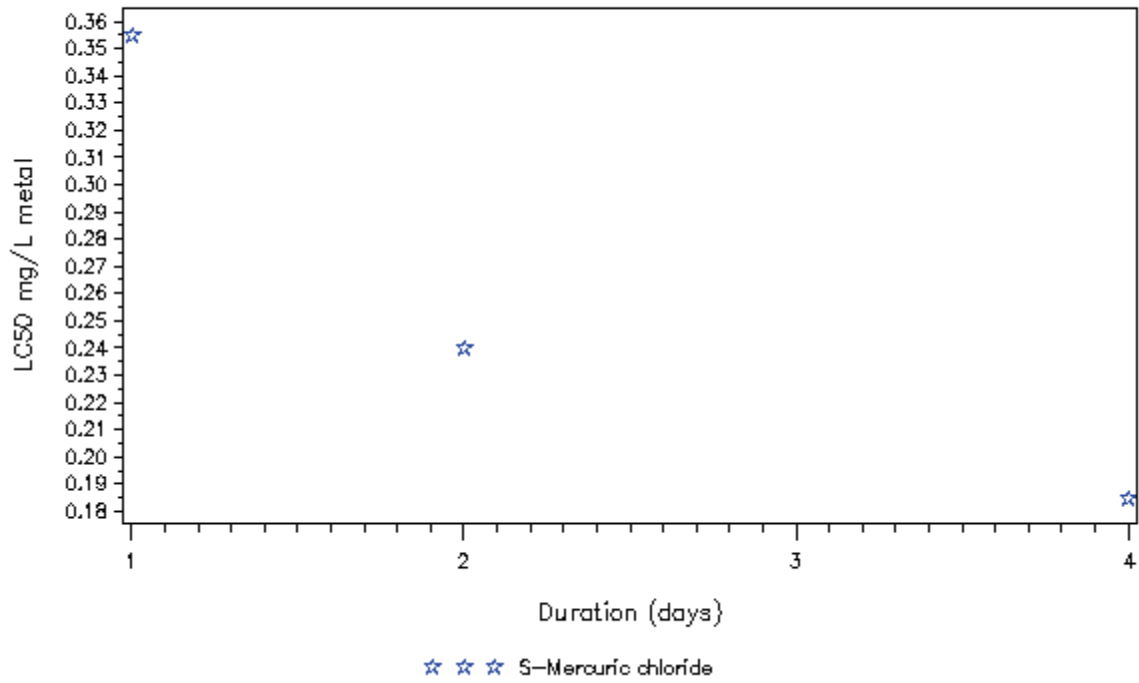


Barbus saphore exposed to Mercury at T>15C in very hard water

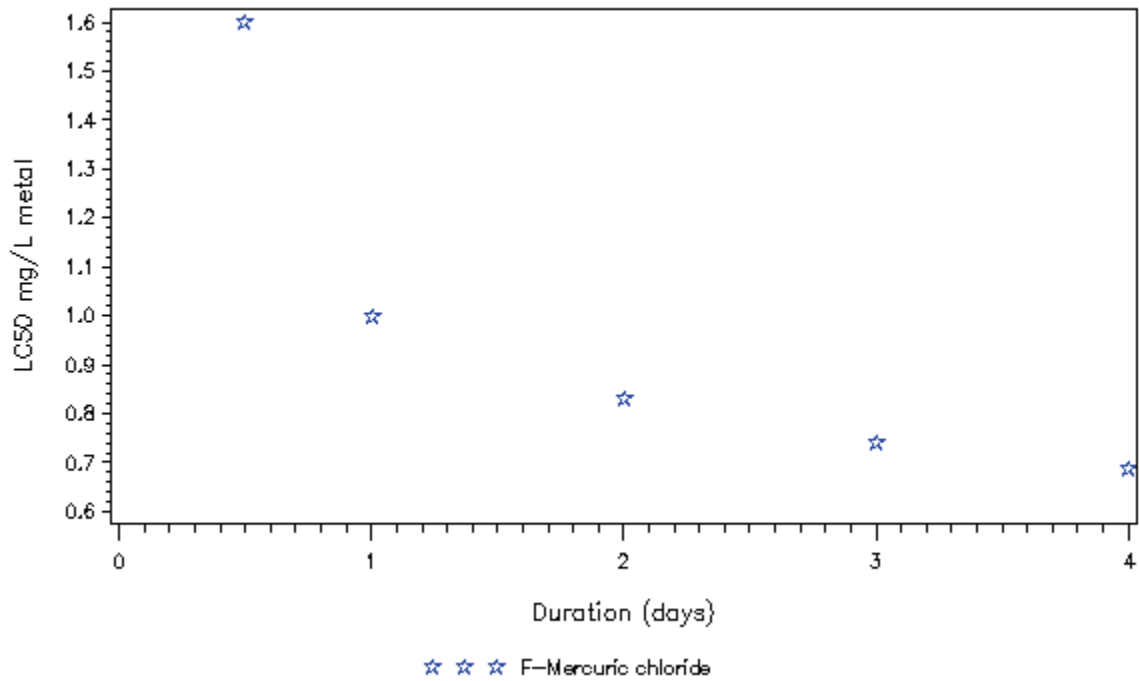


S – Static Test, F – Flowthrough Test, R –Renewal Test

Bufo melanostictus exposed to Mercury at T>15C in very hard water

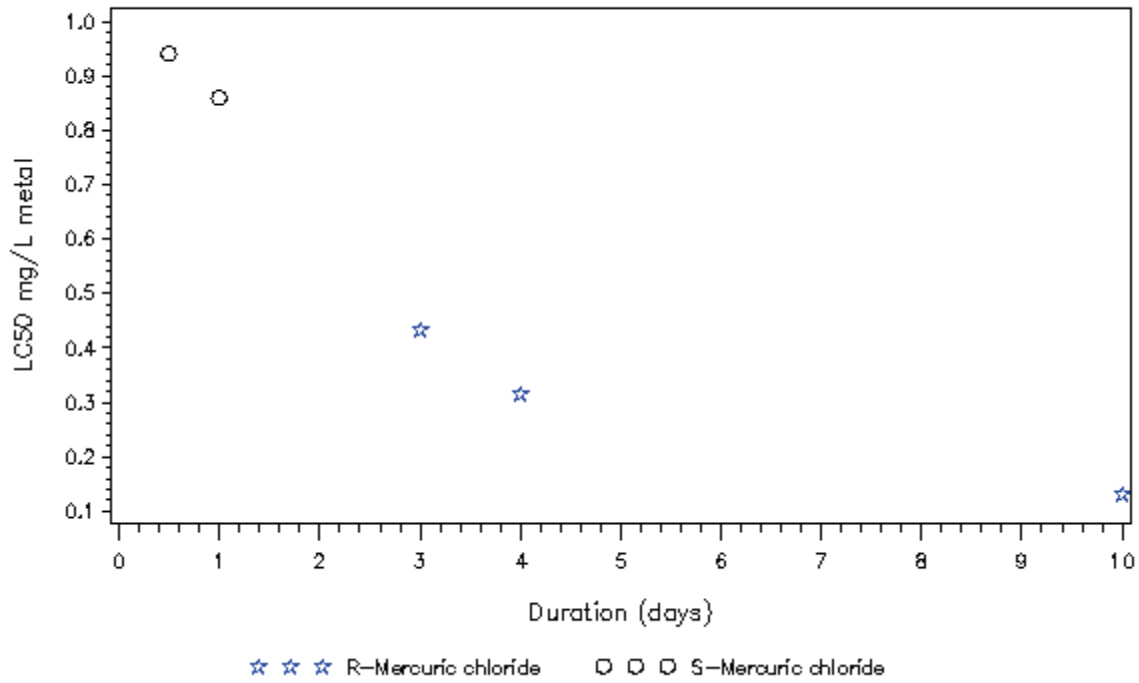


Catostomus commersoni exposed to Mercury at T<=15C in very soft water

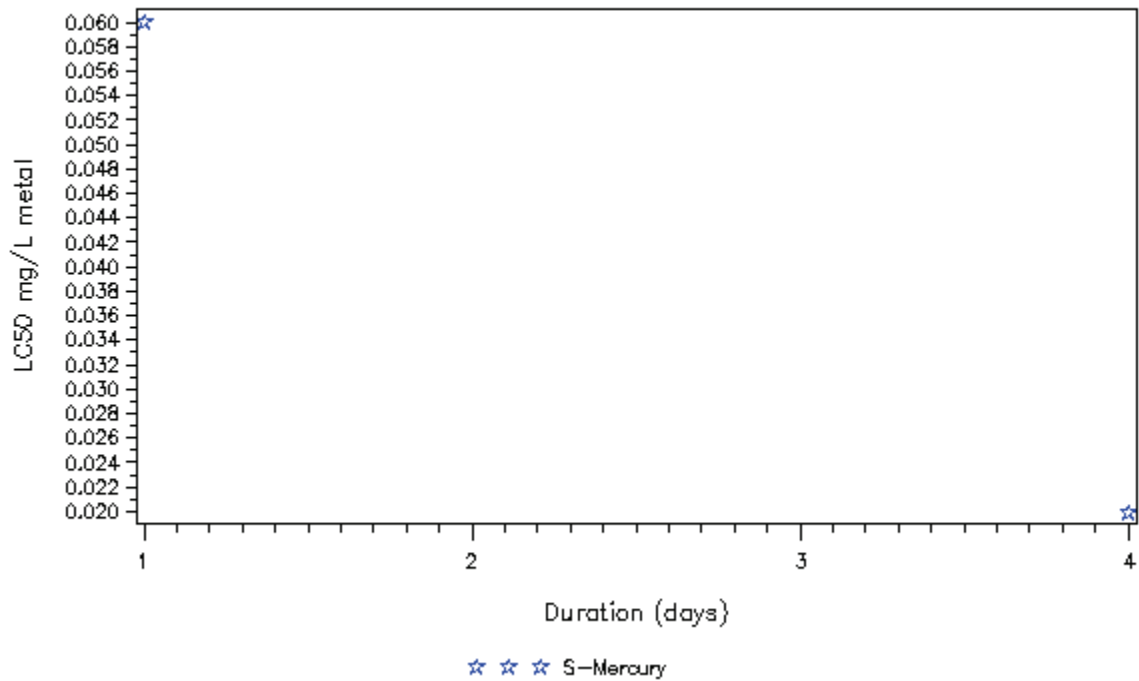


S – Static Test, F – Flowthrough Test, R –Renewal Test

Channa marulius exposed to Mercury at T>15C in very hard water

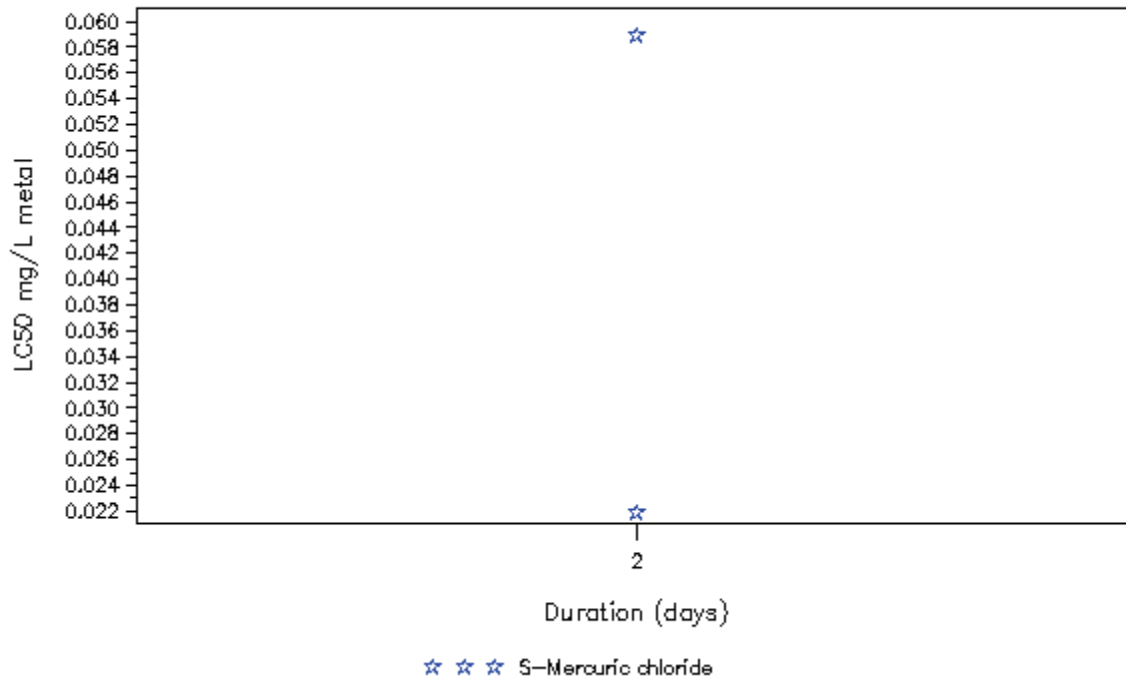


Chironomus exposed to Mercury at T>15C in soft water

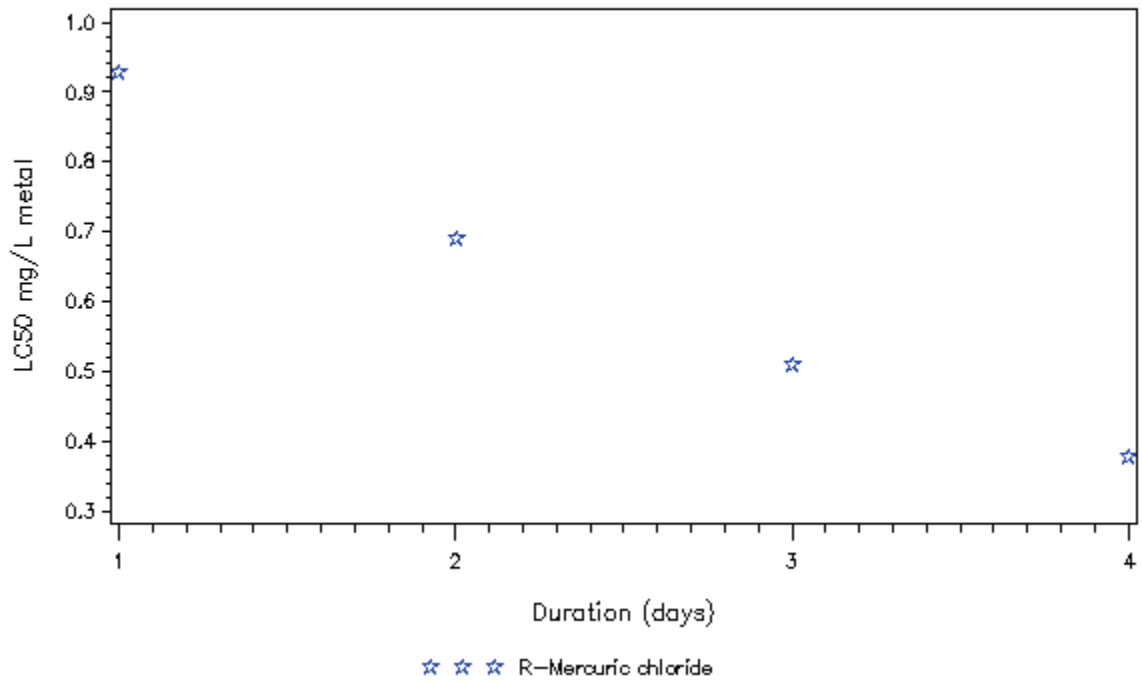


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chydorus sphaericus exposed to Mercury at T>15C in very soft water

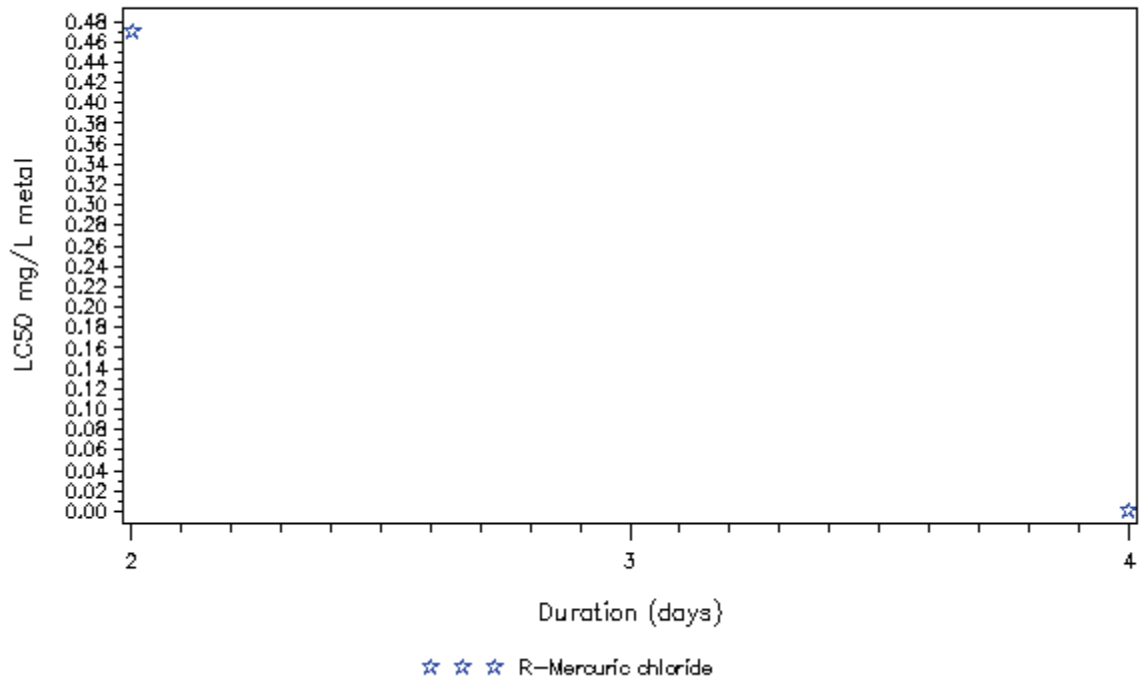


Clarias batrachus exposed to Mercury at T>15C in soft water

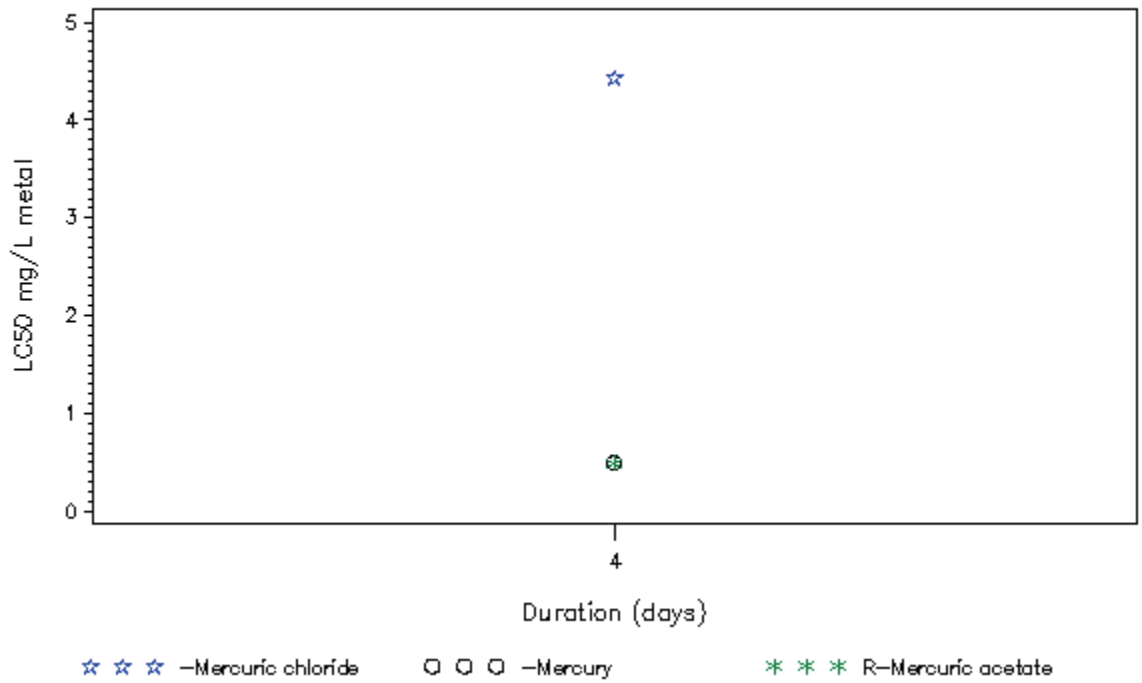


S – Static Test, F – Flowthrough Test, R –Renewal Test

Crangonyx pseudogracilis exposed to Mercury at T<=15C in soft water

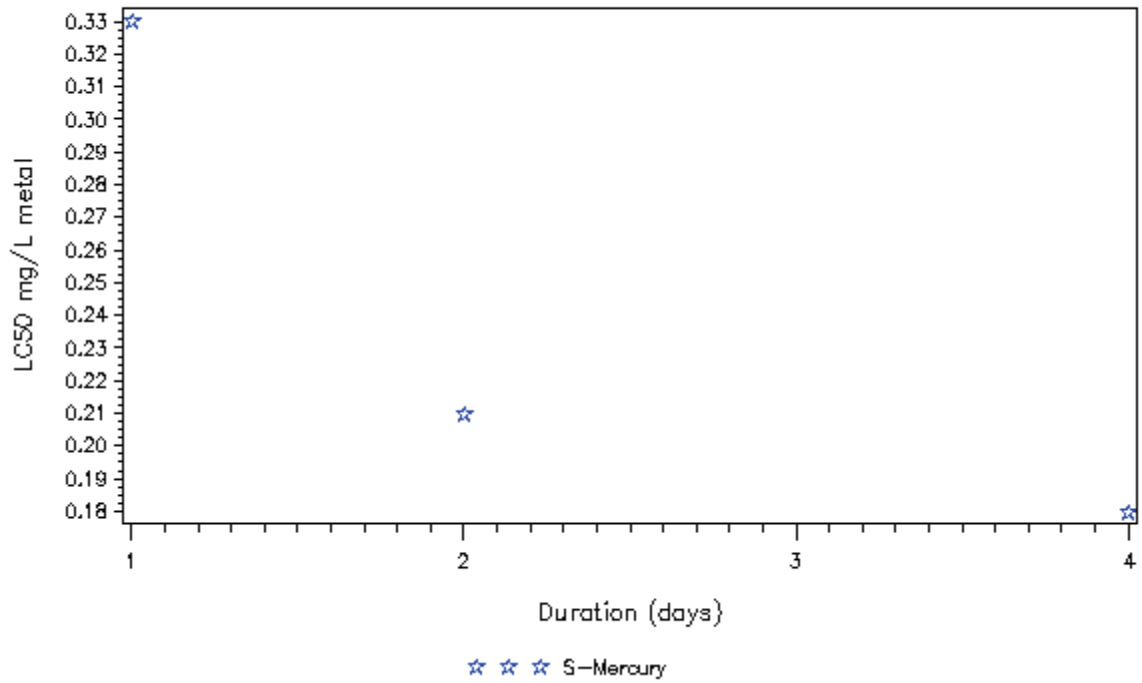


Cyprinus carpio exposed to Mercury at T>15C in moderate water

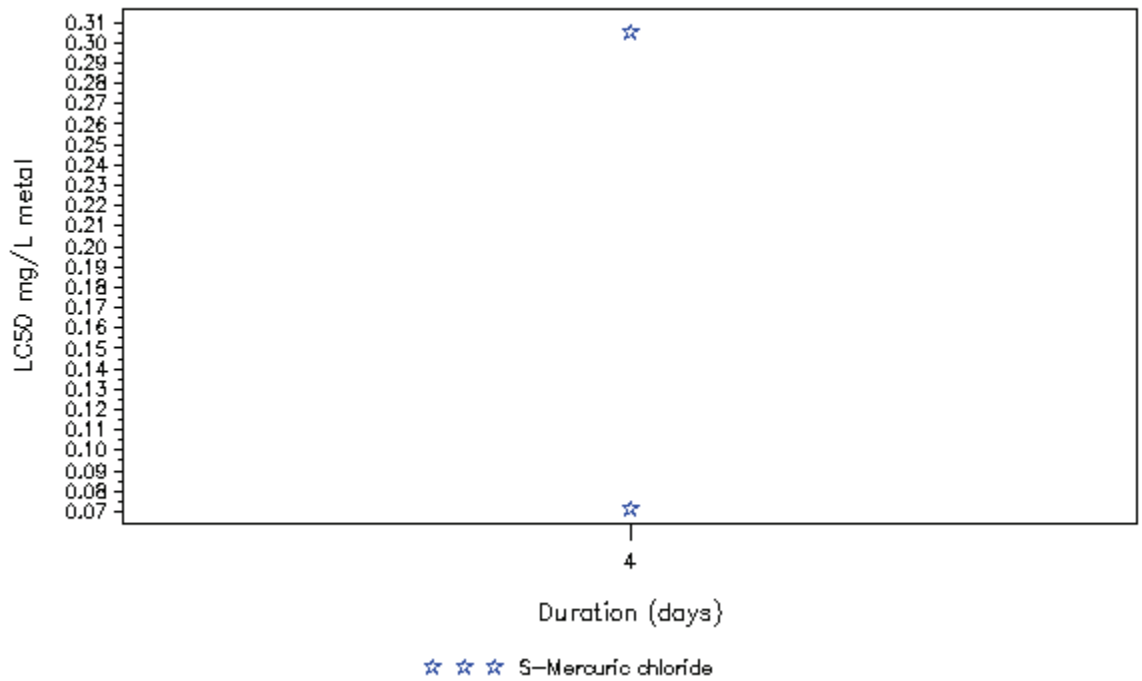


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Mercury at T>15C in soft water

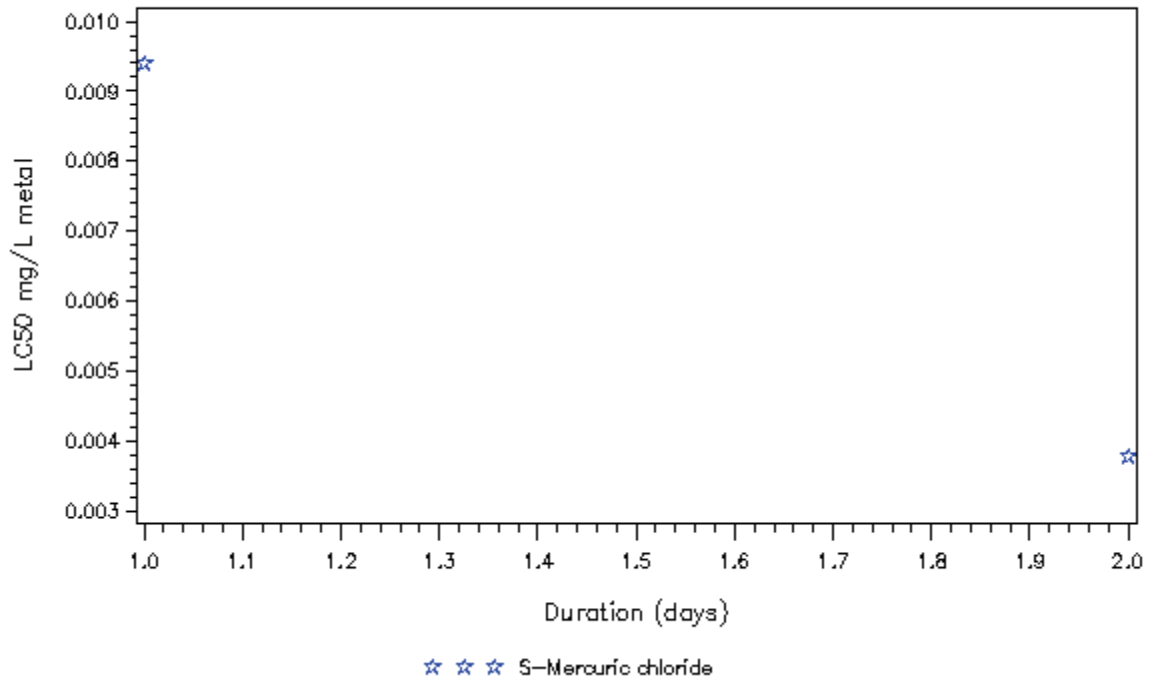


Cyprinus carpio exposed to Mercury at T>15C in very hard water

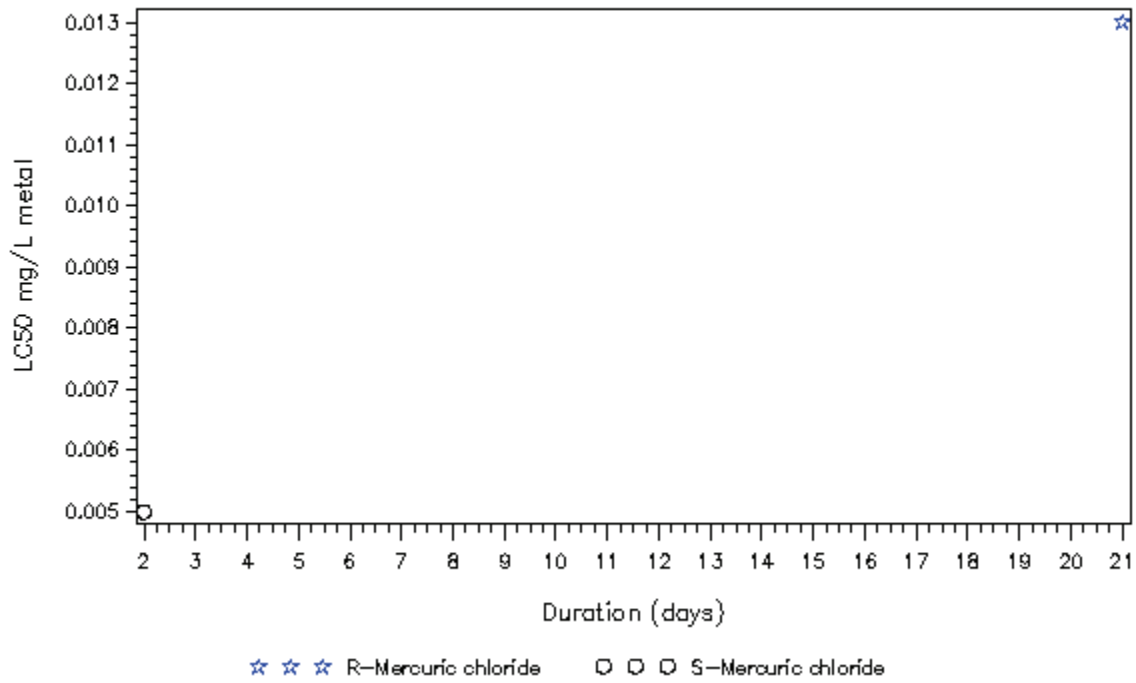


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Mercury at T<=15C in very hard water

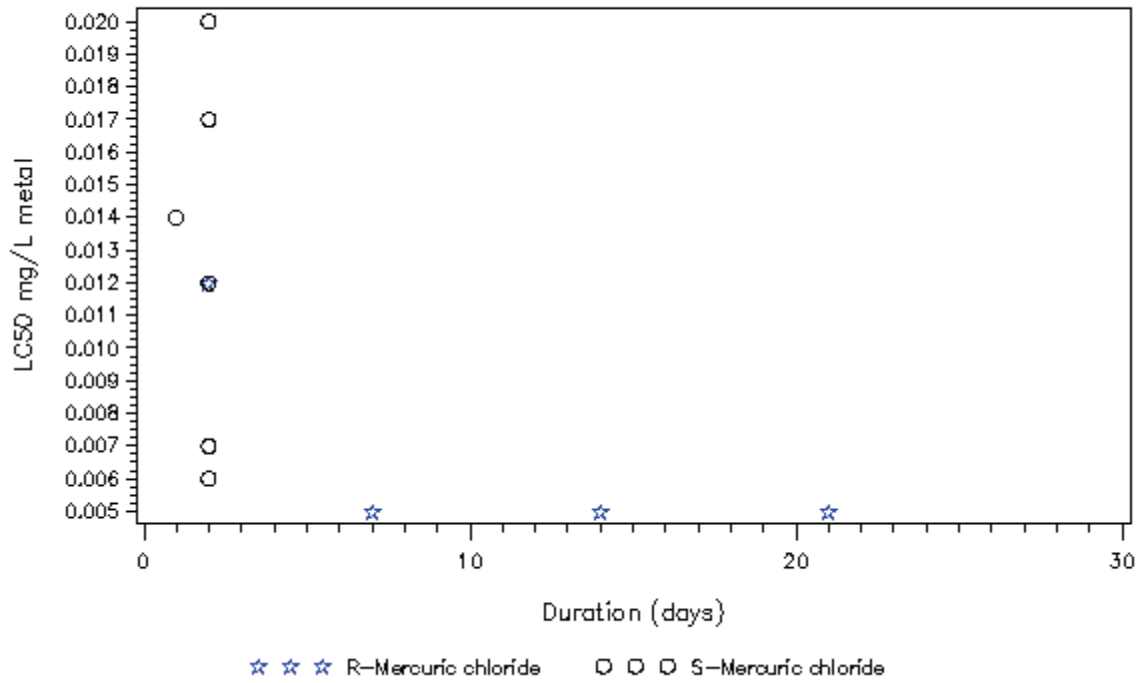


Daphnia magna exposed to Mercury at T>15C in soft water

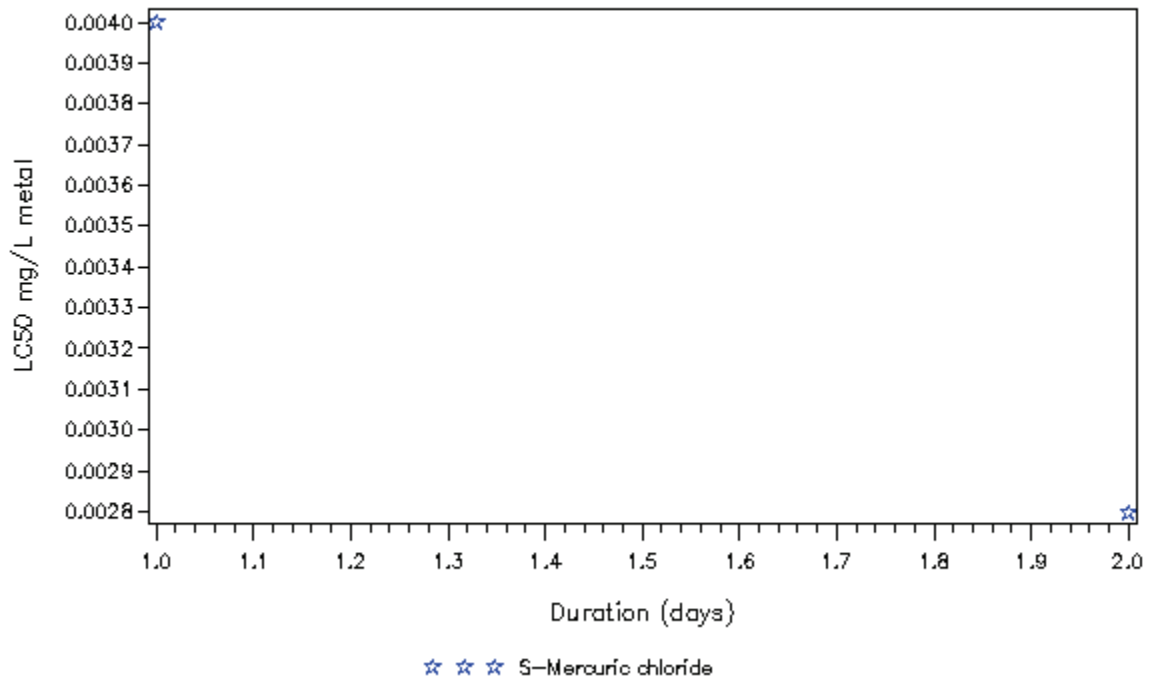


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Mercury at T>15C in very hard water

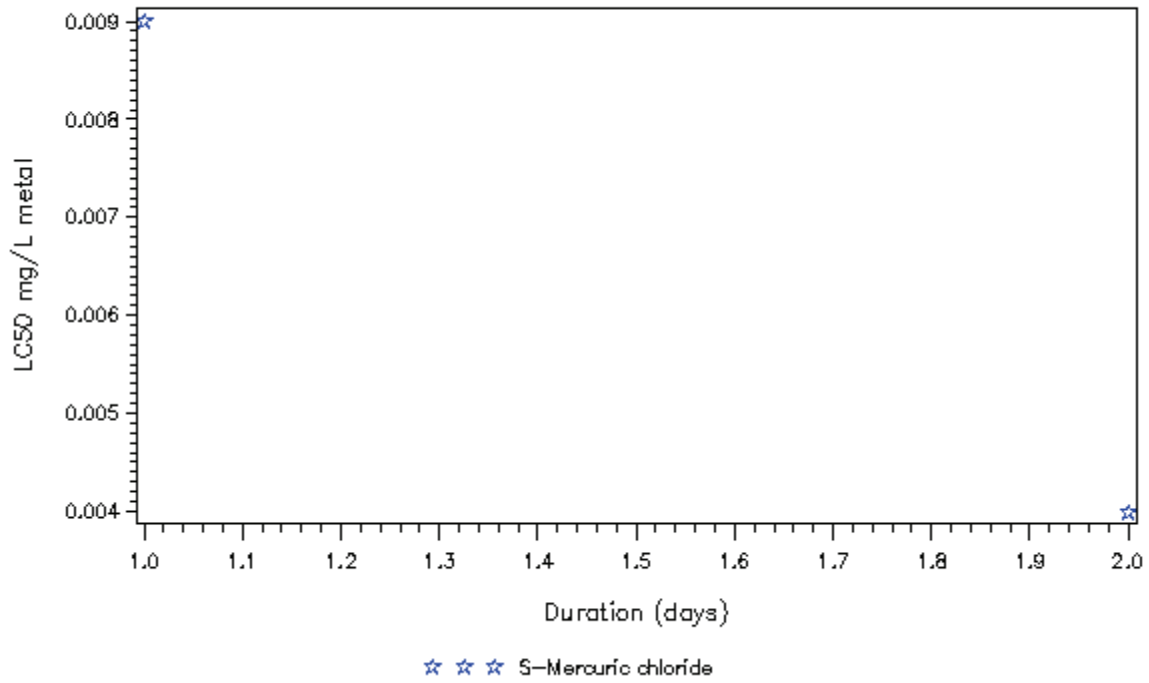


Daphnia obtusa exposed to Mercury at T>15C in very hard water

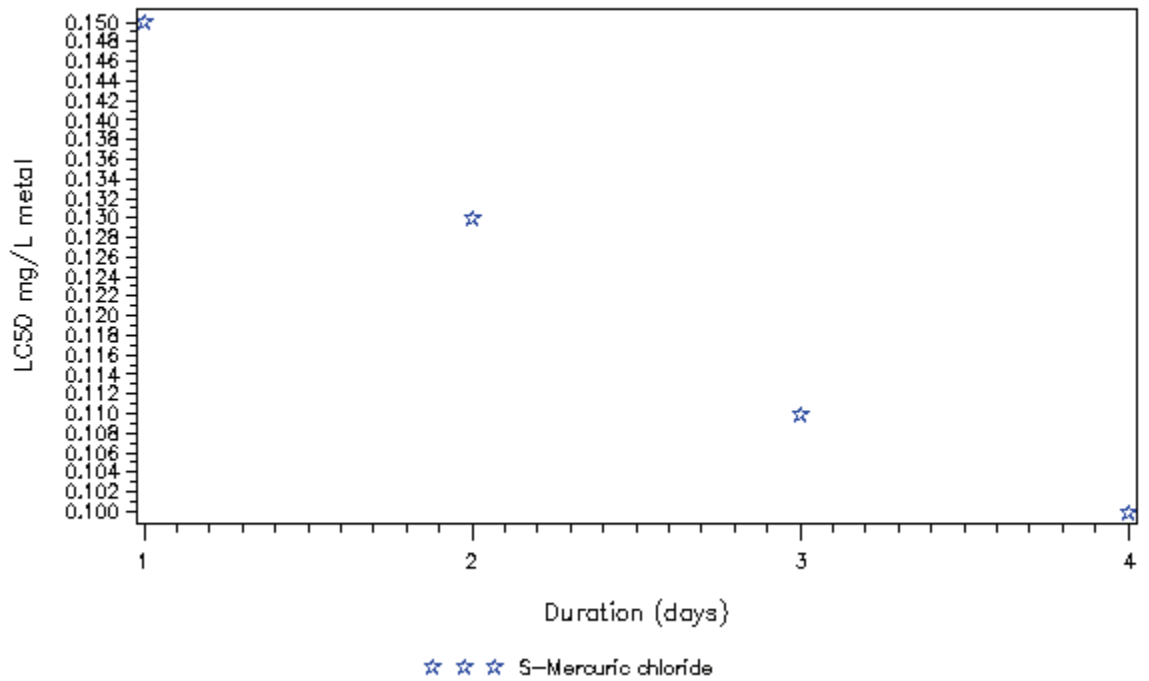


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia pulex exposed to Mercury at T>15C in soft water

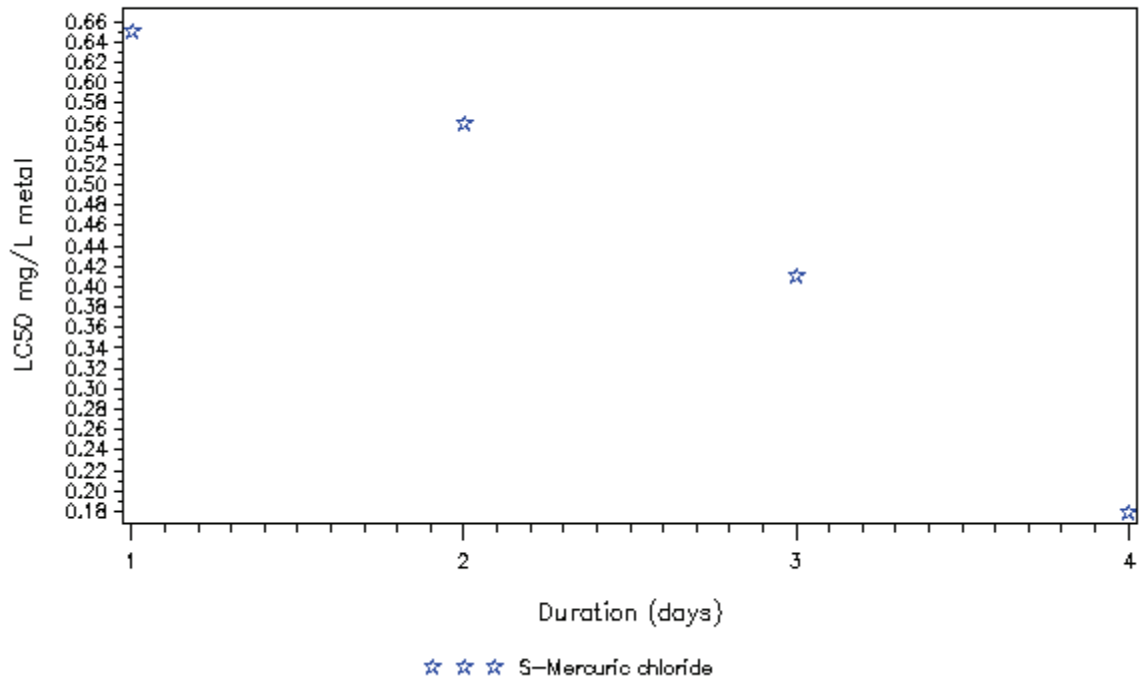


Dugesia bengalensis exposed to Mercury at T>15C in hard water

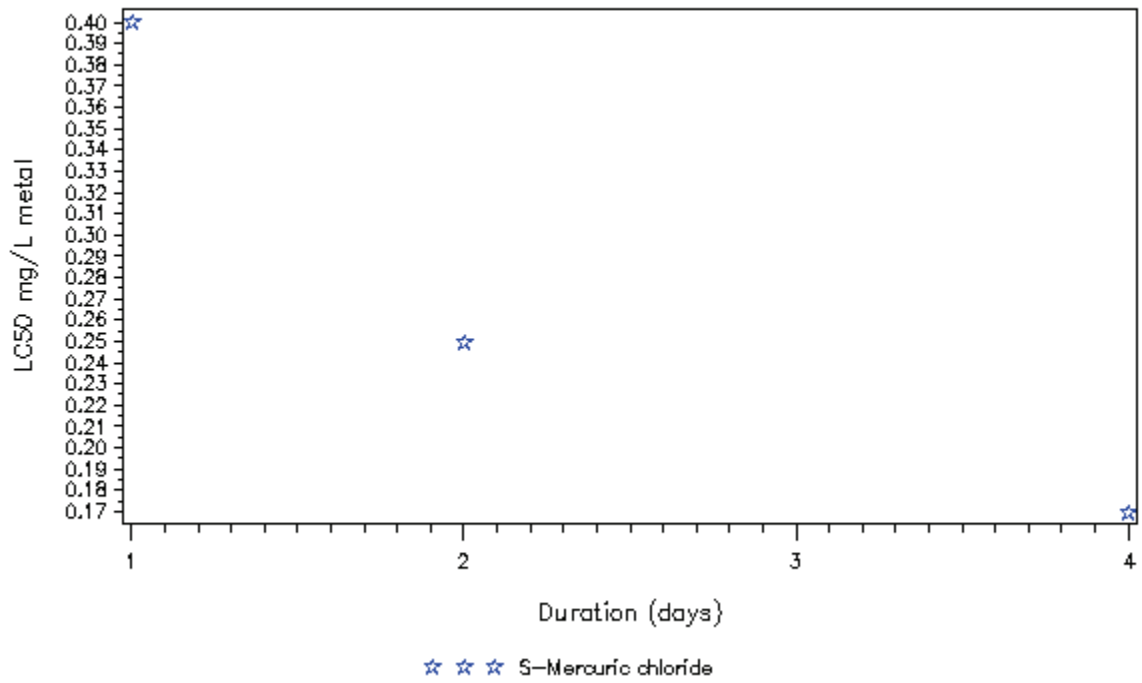


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gambusia affinis exposed to Mercury at T>15C in soft water

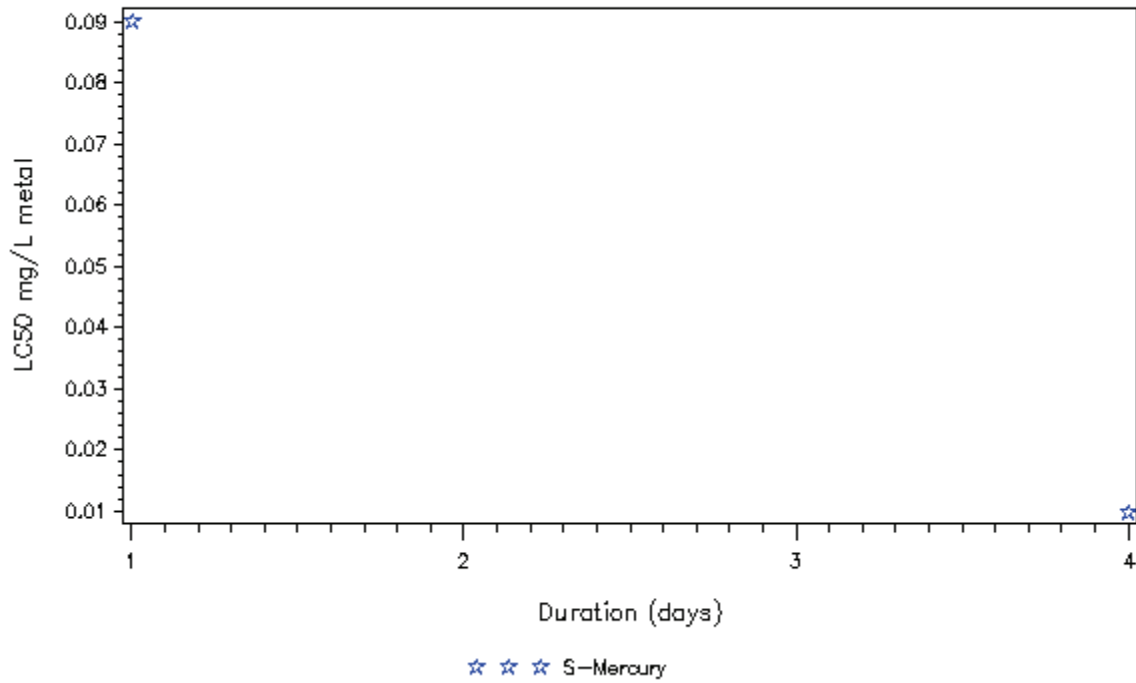


Gambusia affinis exposed to Mercury at T>15C in very hard water

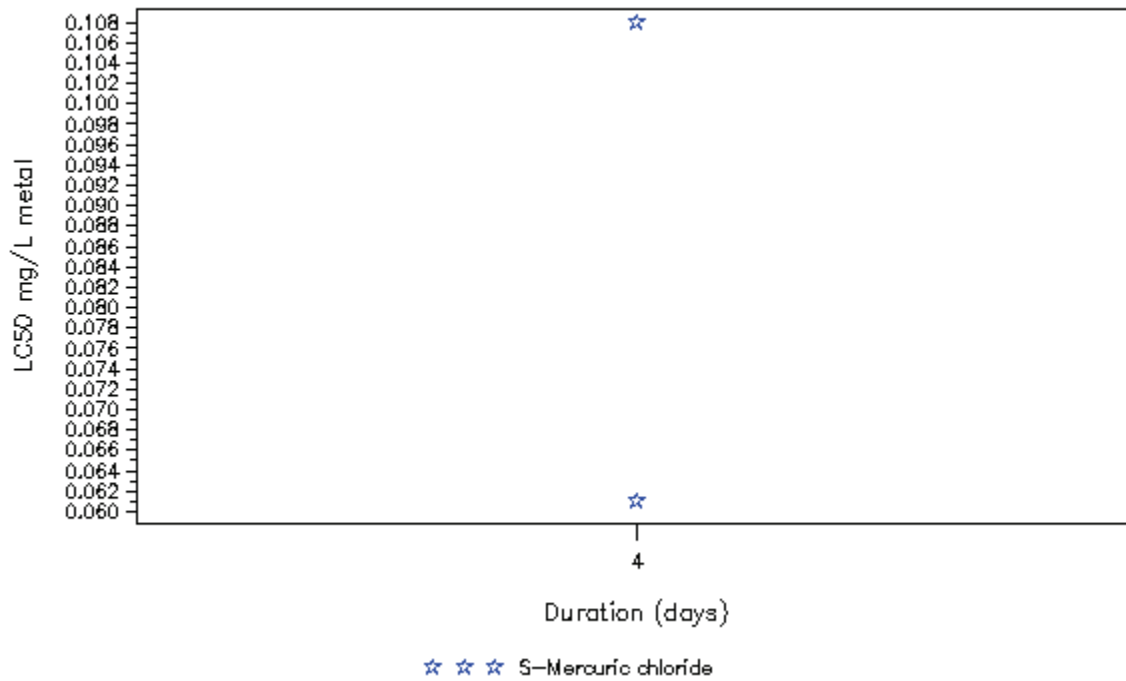


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gammarus exposed to Mercury at T>15C in soft water

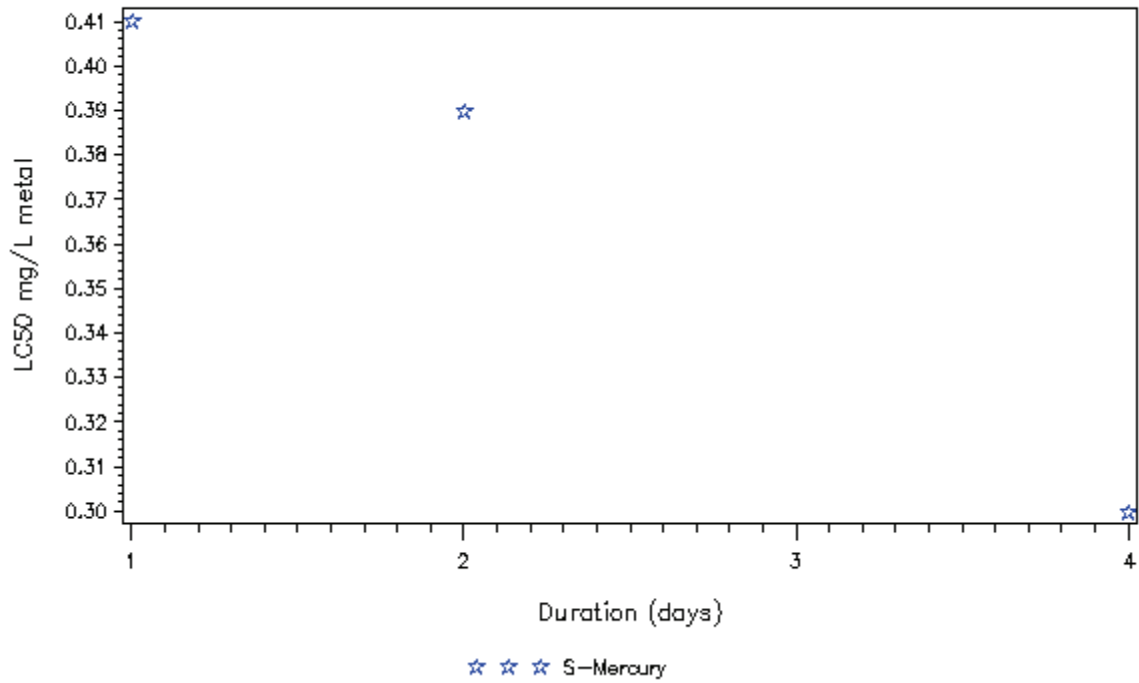


Gila elegans exposed to Mercury at T>15C in very hard water

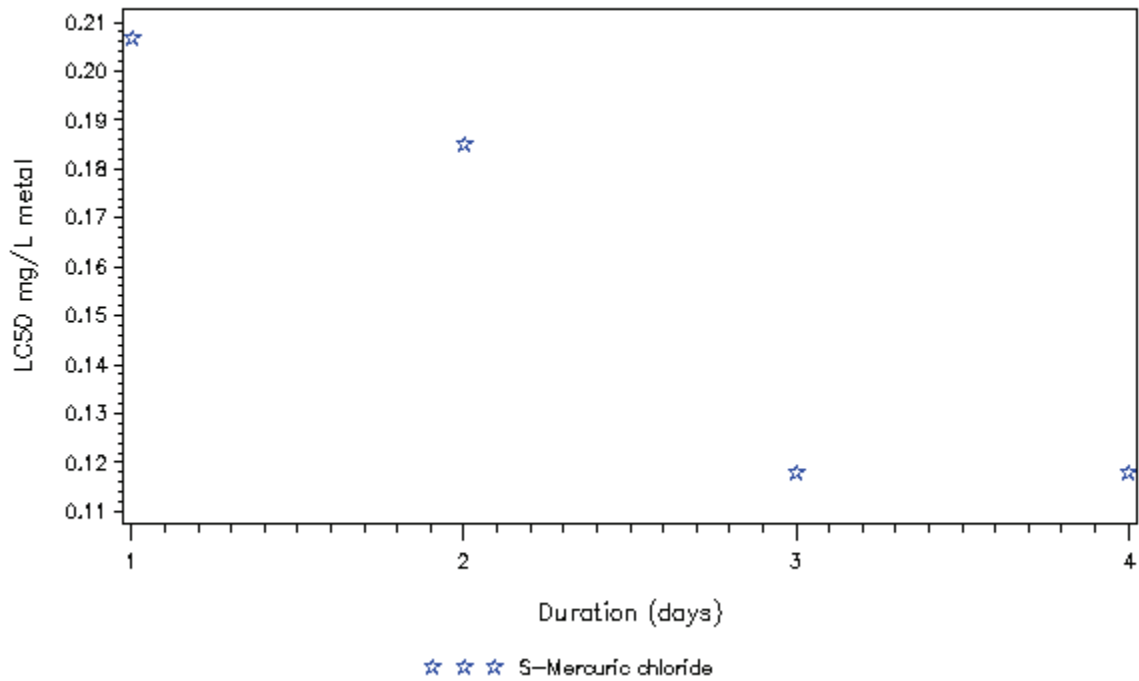


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis gibbosus exposed to Mercury at T>15C in soft water

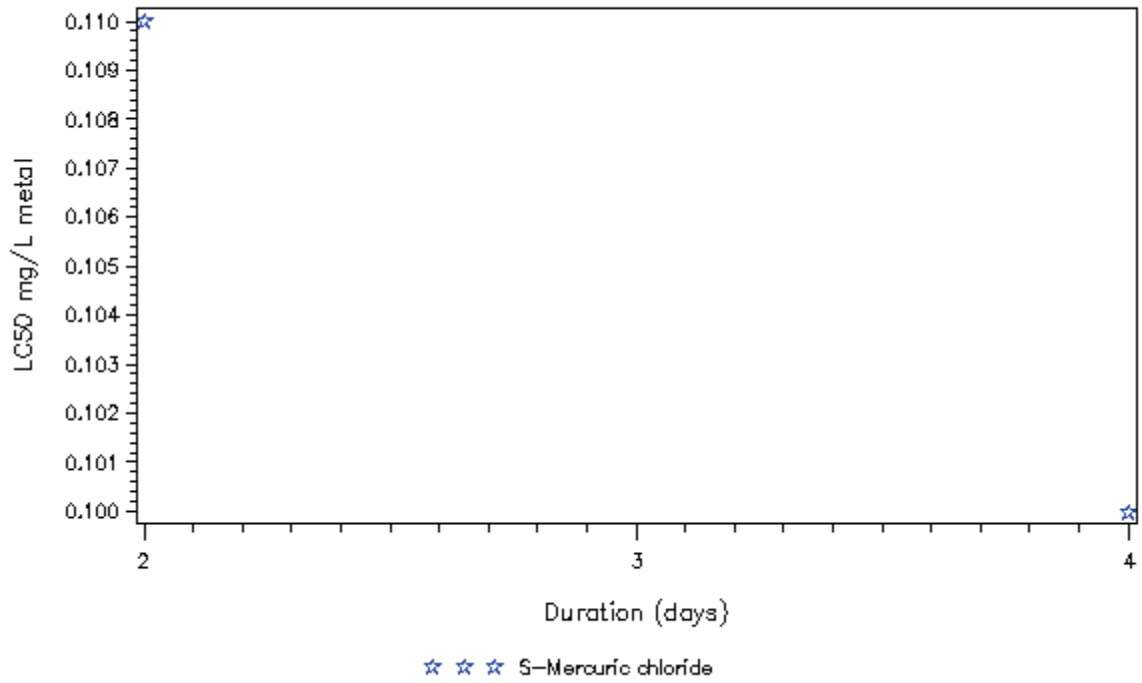


Lepomis macrochirus exposed to Mercury at T>15C in soft water

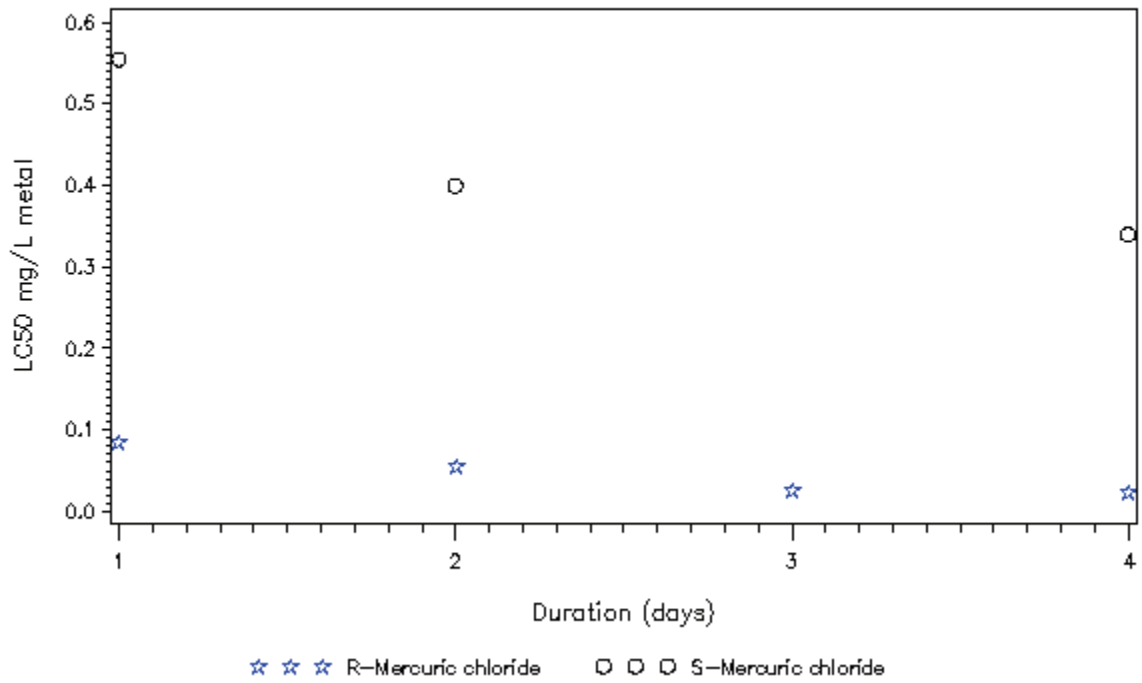


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lumbriculus variegatus exposed to Mercury at T>15C in soft water

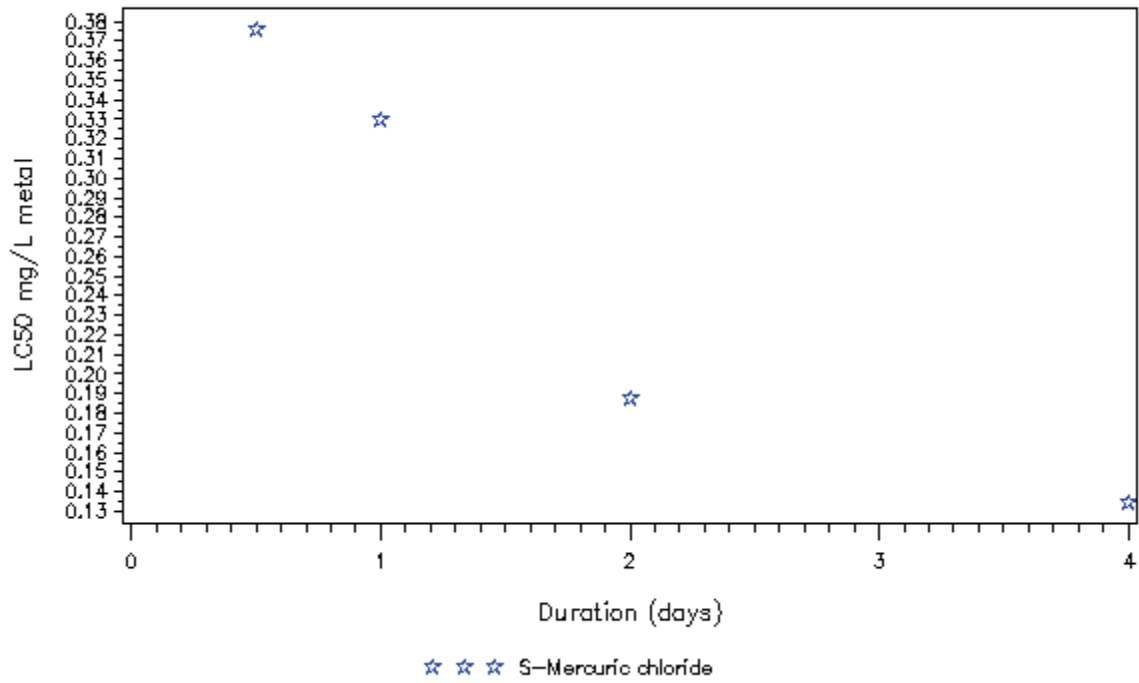


Lymnaea acuminata exposed to Mercury at T>15C in very hard water

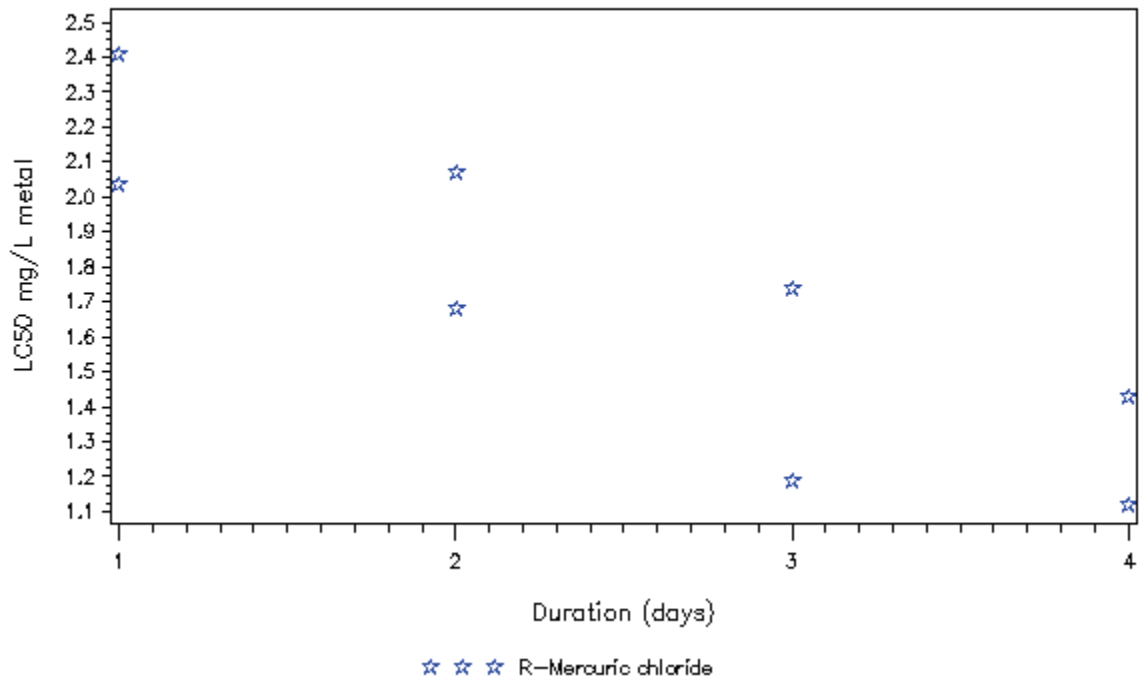


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lymnaea luteola exposed to Mercury at T>15C in very hard water

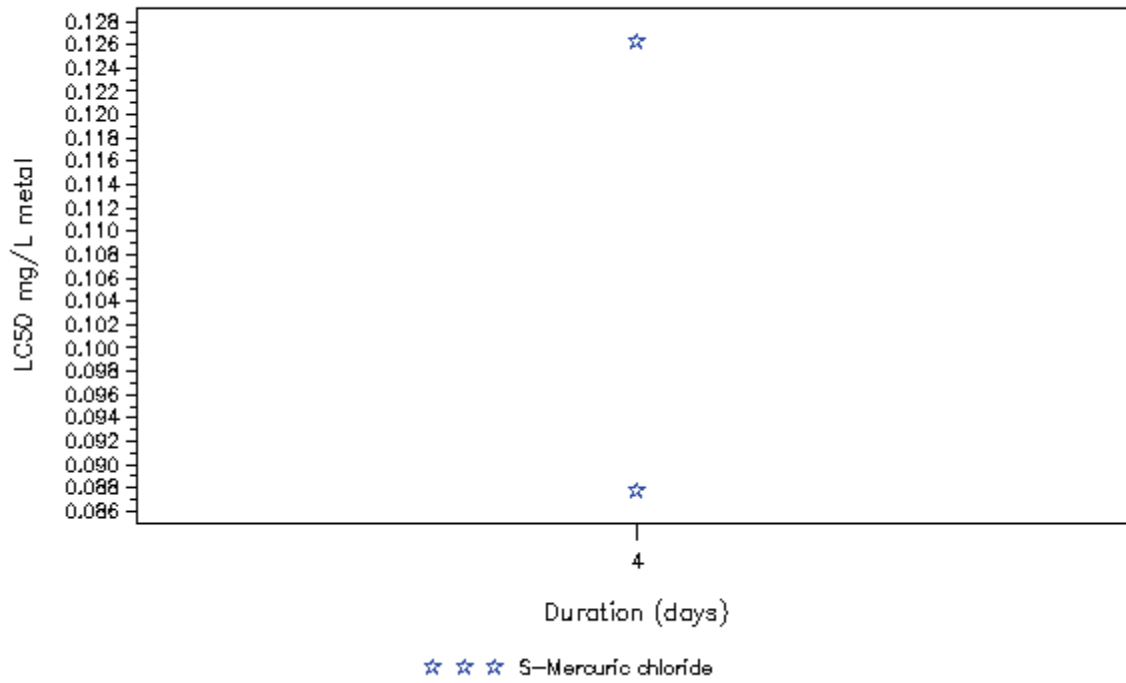


Microhyla ornata exposed to Mercury at T>15C in hard water

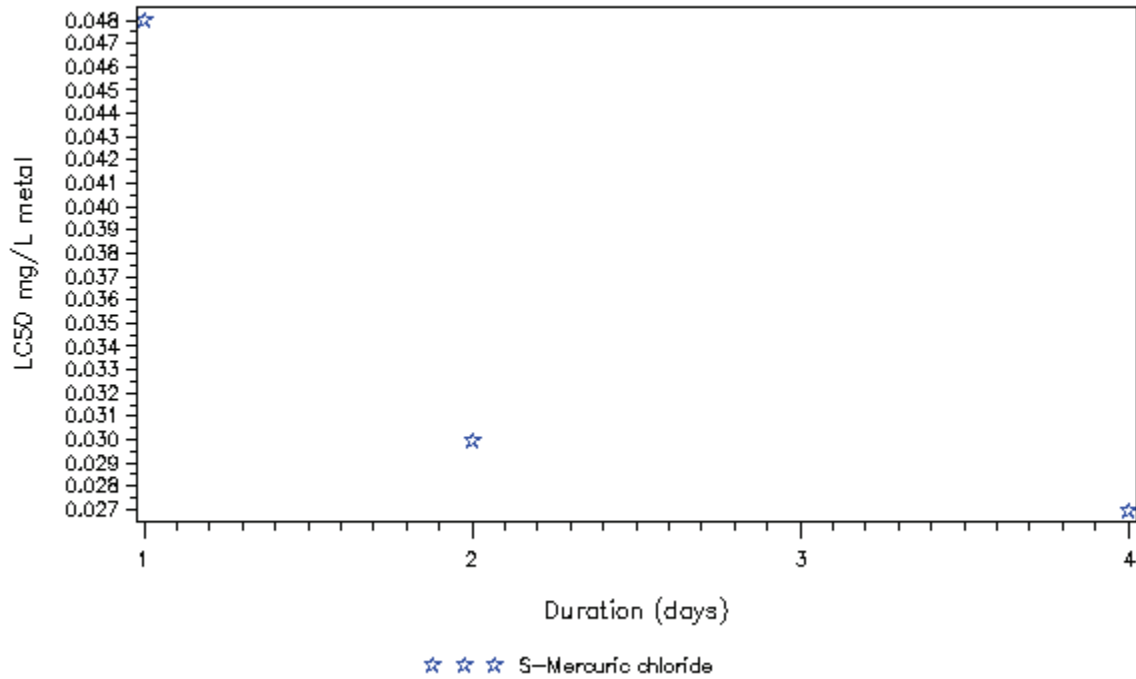


S – Static Test, F – Flowthrough Test, R –Renewal Test

Microhyla ornata exposed to Mercury at T>15C in soft water

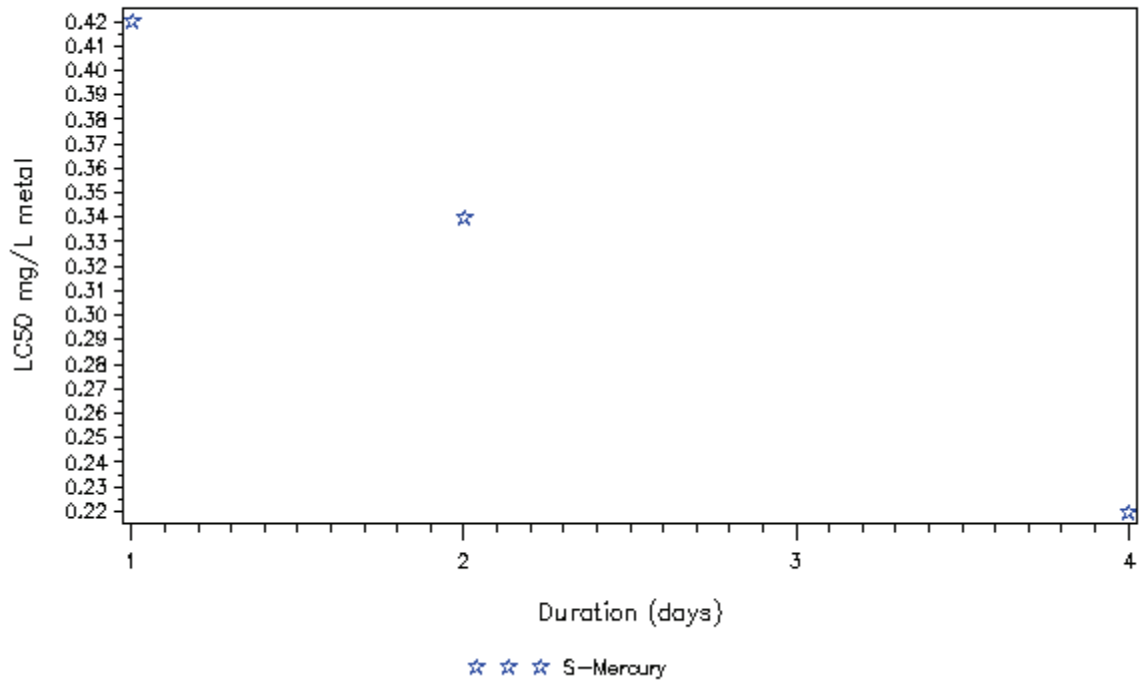


Moina dubia exposed to Mercury at T>15C in very hard water

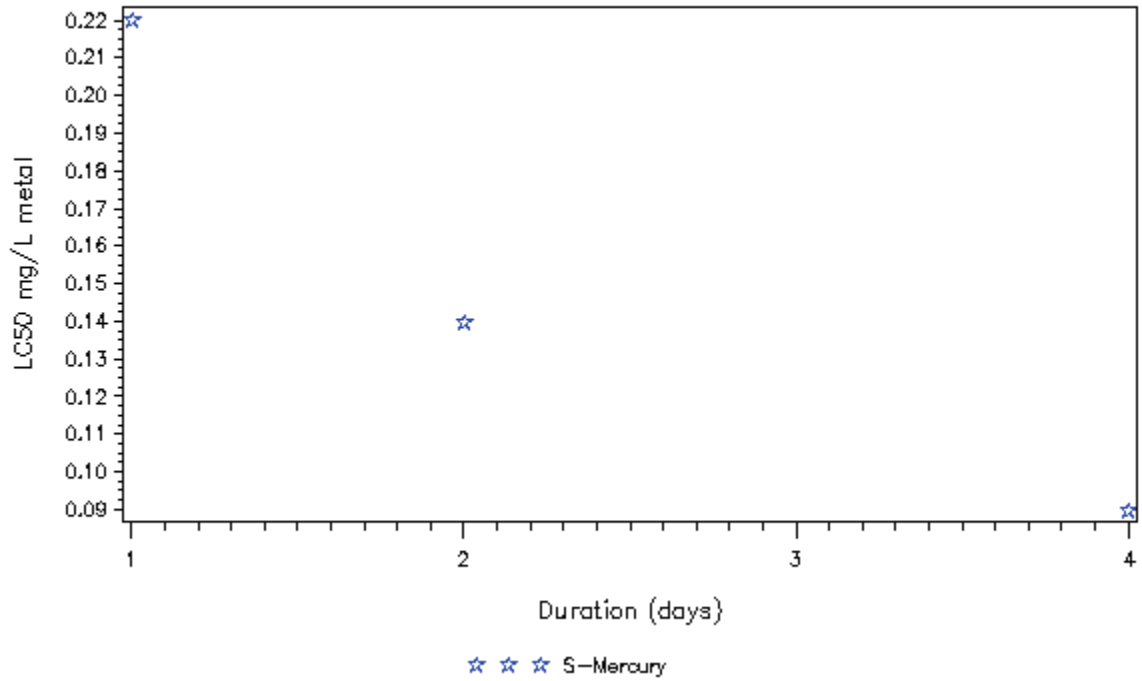


S – Static Test, F – Flowthrough Test, R –Renewal Test

Morone americana exposed to Mercury at T>15C in soft water

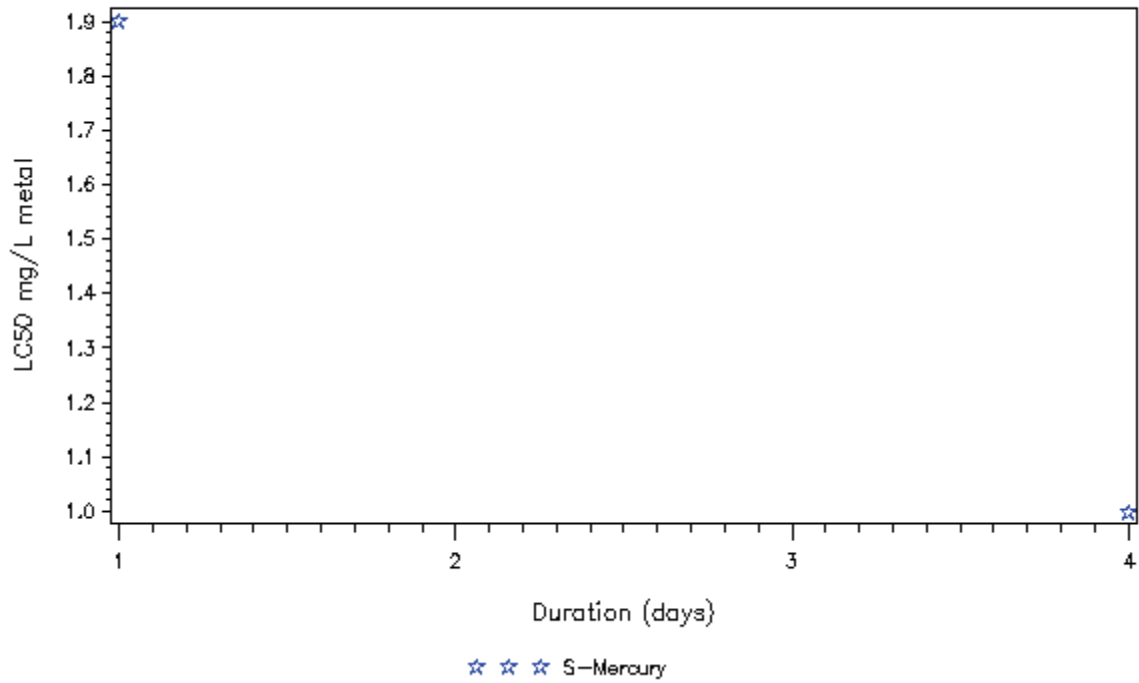


Morone saxatilis exposed to Mercury at T>15C in soft water

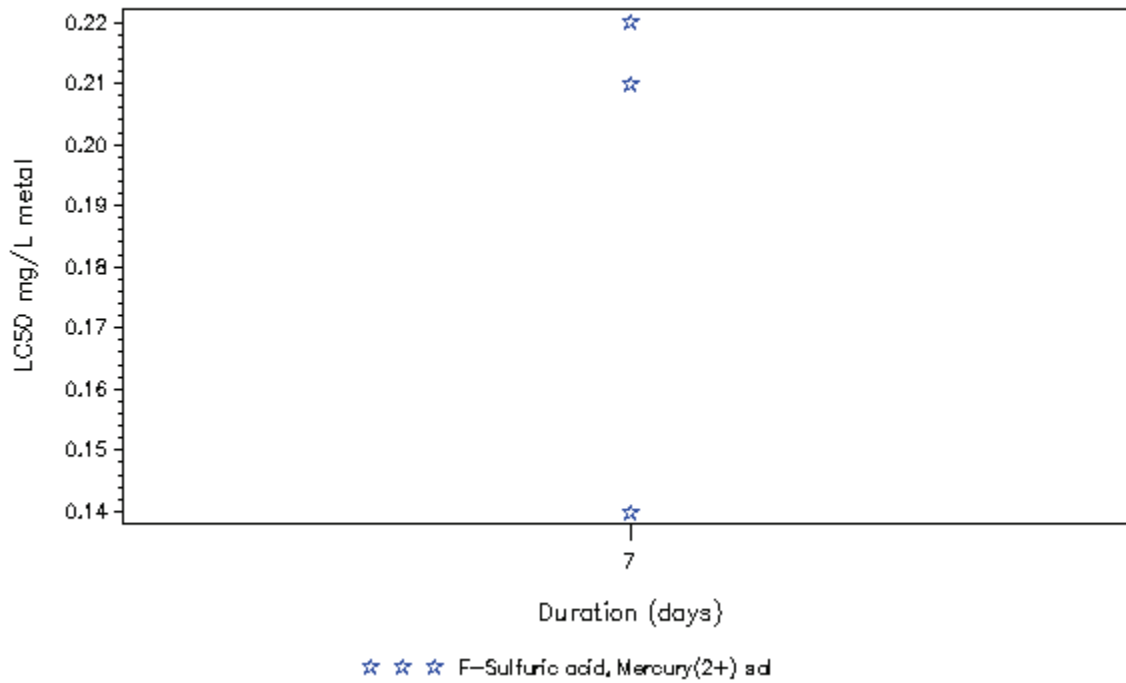


S – Static Test, F – Flowthrough Test, R –Renewal Test

Nais exposed to Mercury at T>15C in soft water

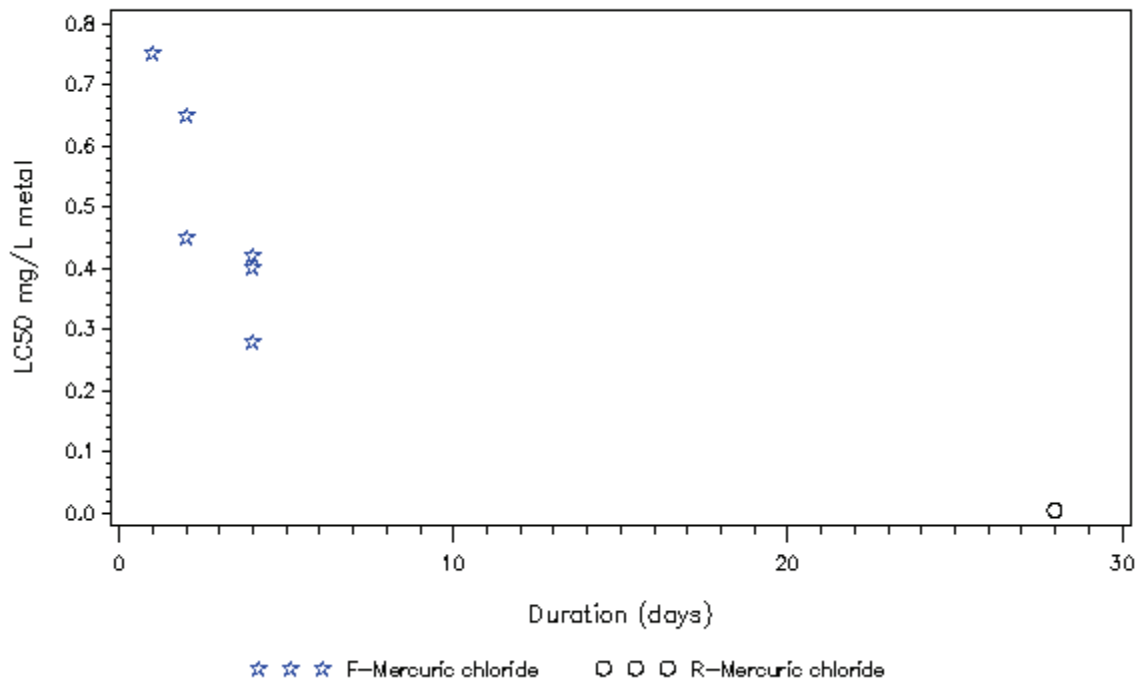


Oncorhynchus gorbuscha exposed to Mercury at T<=15C in moderate water

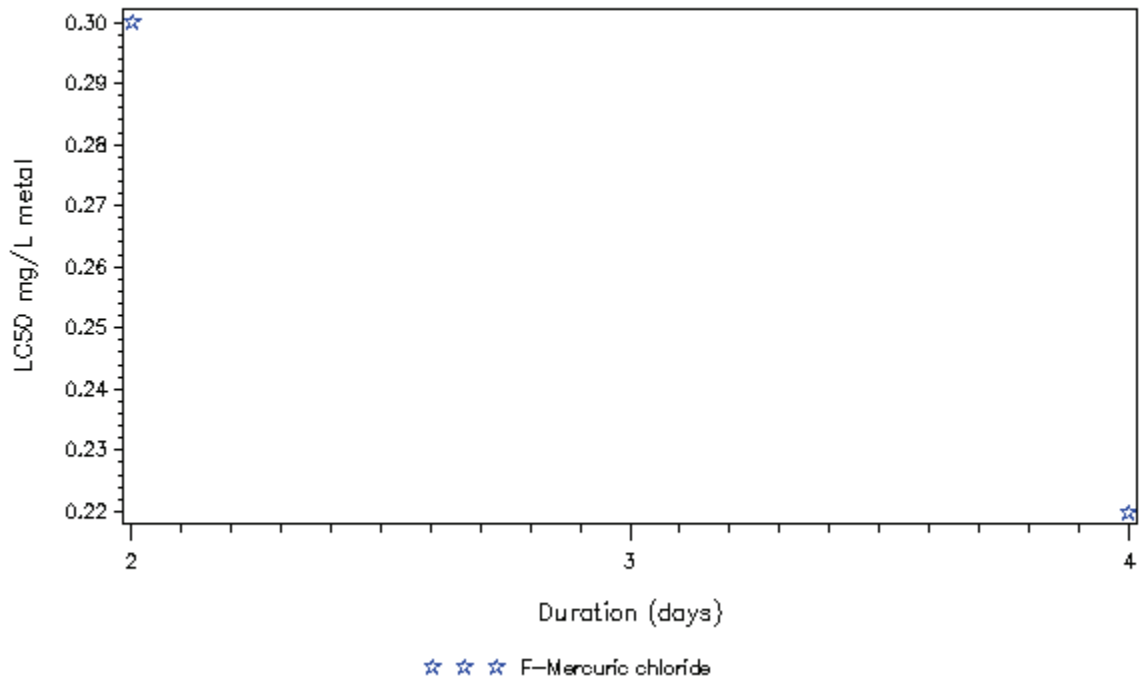


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Mercury at T<=15C in moderate water

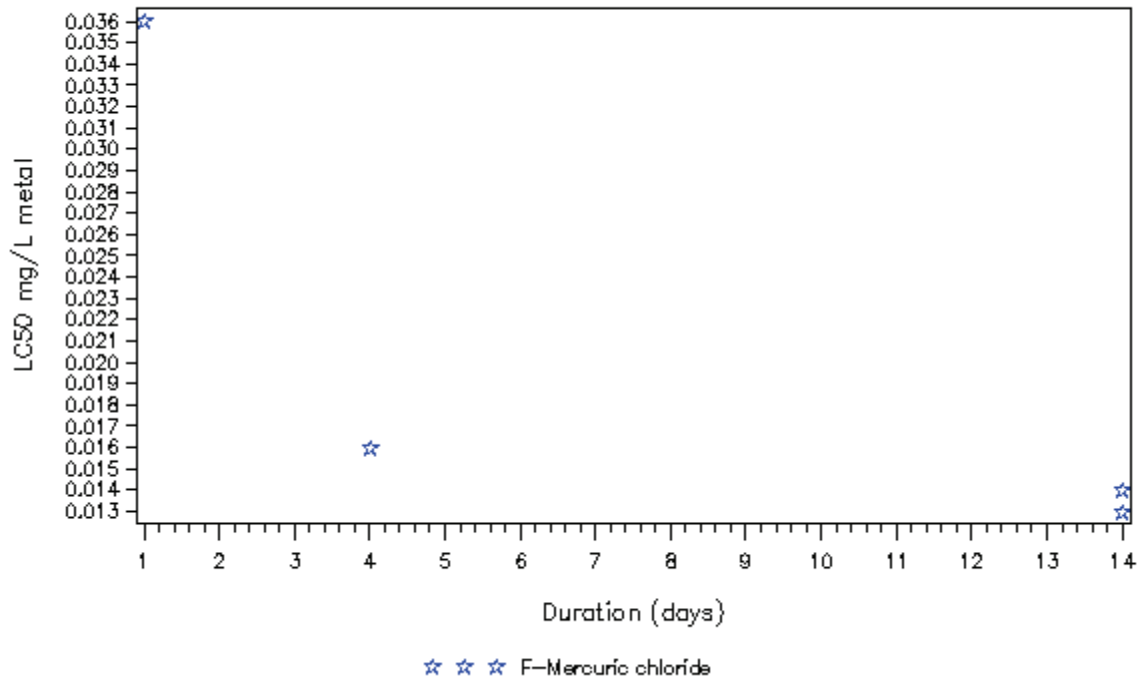


Oncorhynchus mykiss exposed to Mercury at T>15C in moderate water

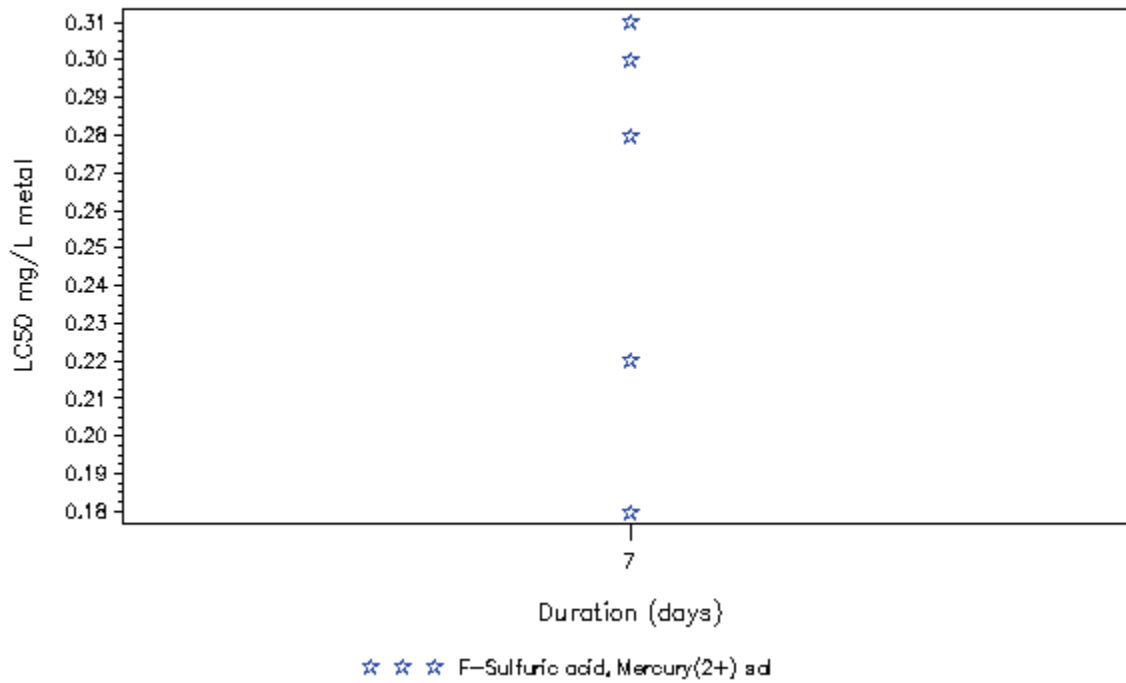


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Mercury at T>15C in very hard water

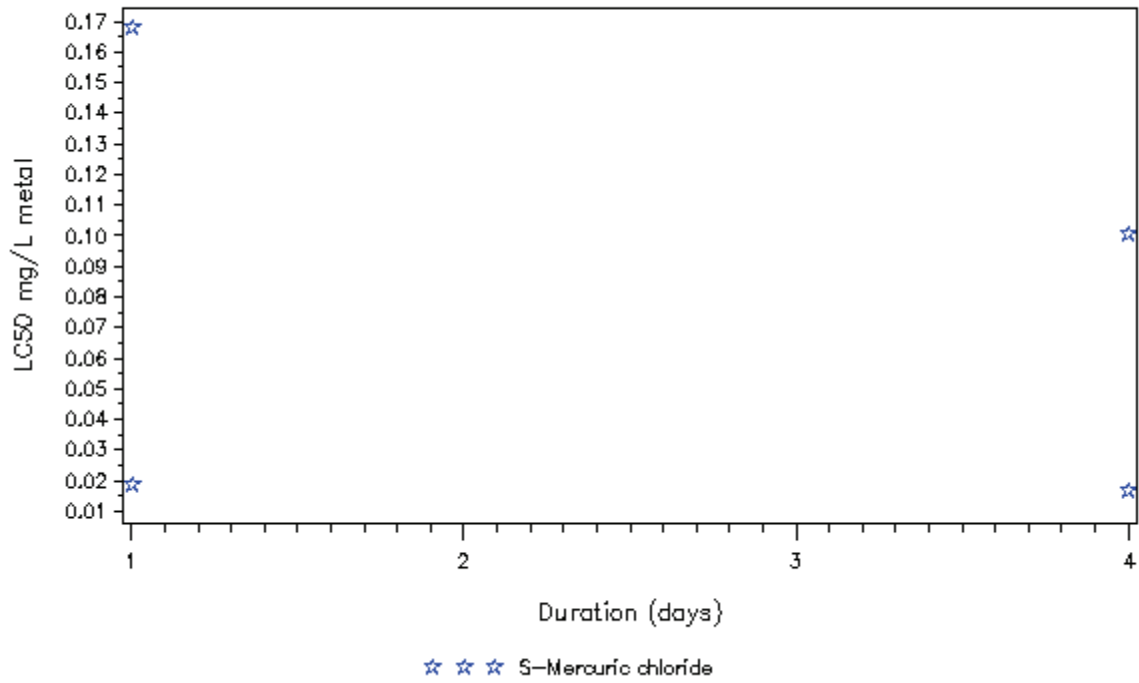


Oncorhynchus nerka exposed to Mercury at T<=15C in moderate water

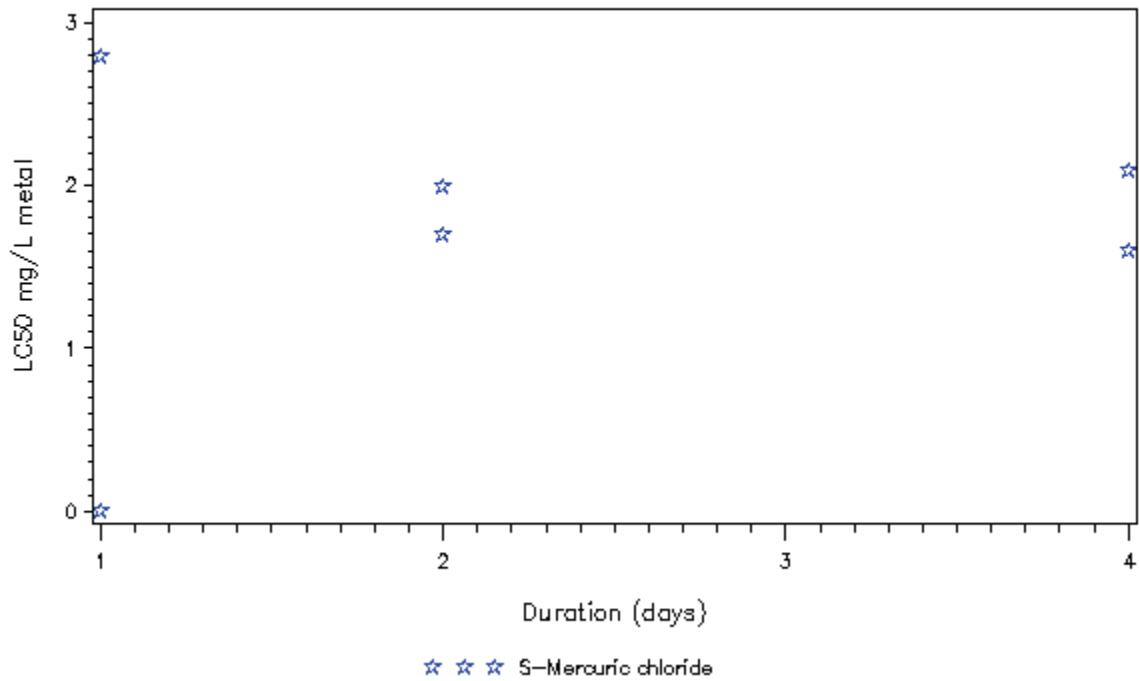


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus tshawytscha exposed to Mercury at T<=15C in very hard water

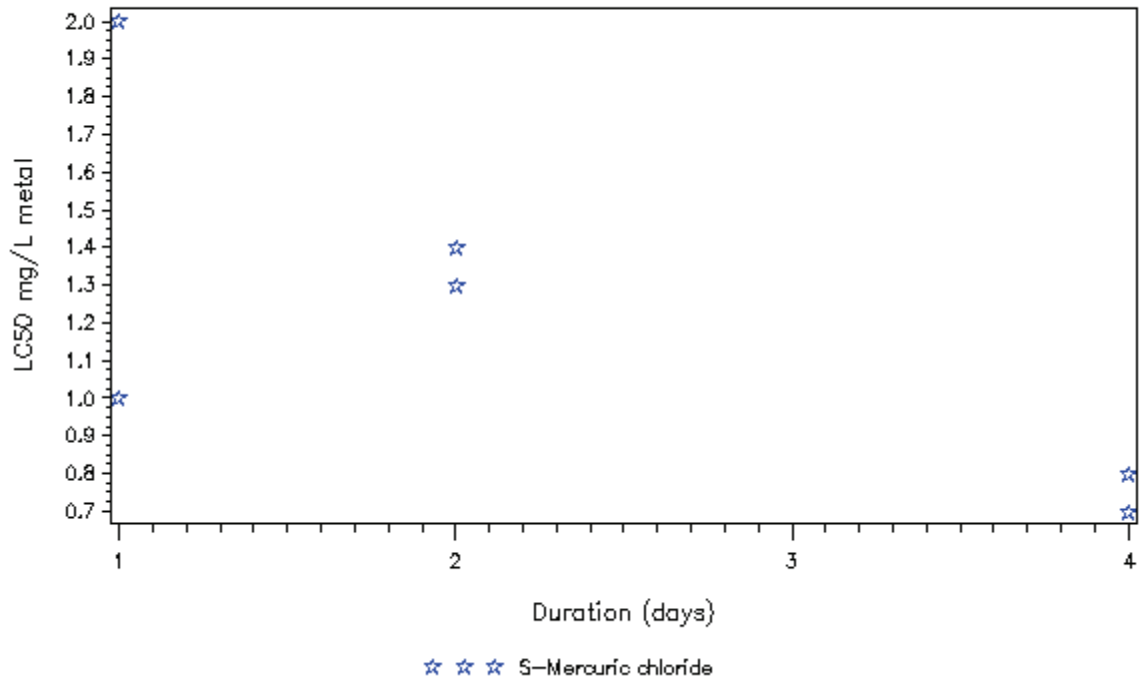


Philodina acuticornis exposed to Mercury at T>15C in moderate water

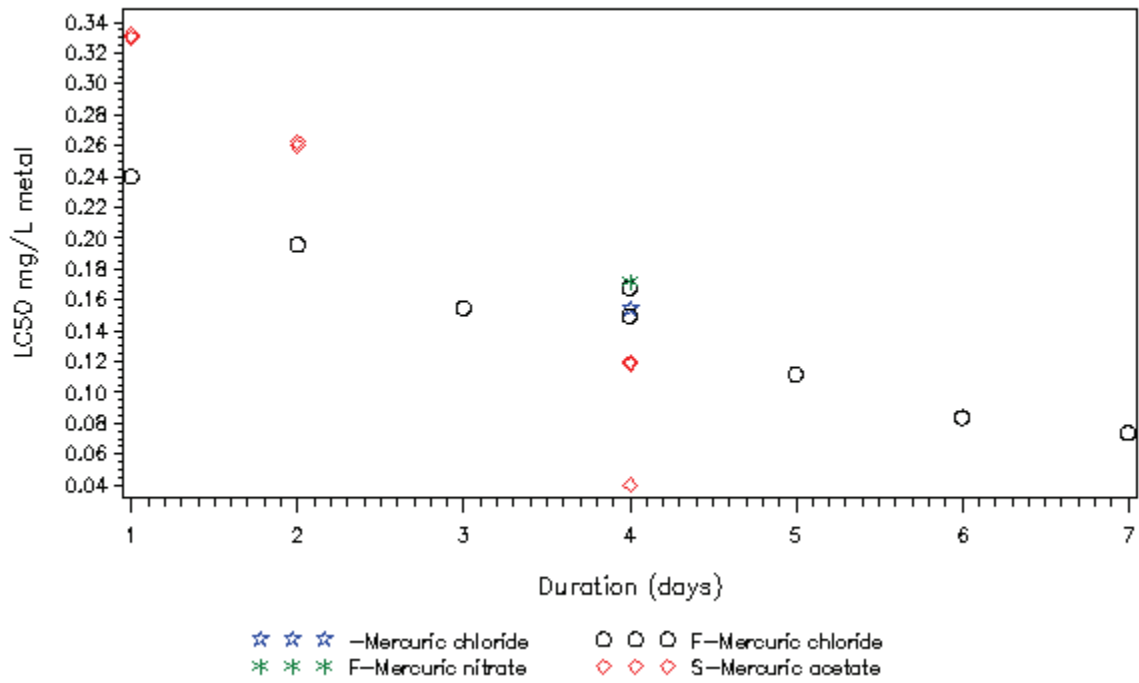


S – Static Test, F – Flowthrough Test, R –Renewal Test

Philodina acuticornis exposed to Mercury at T>15C in soft water

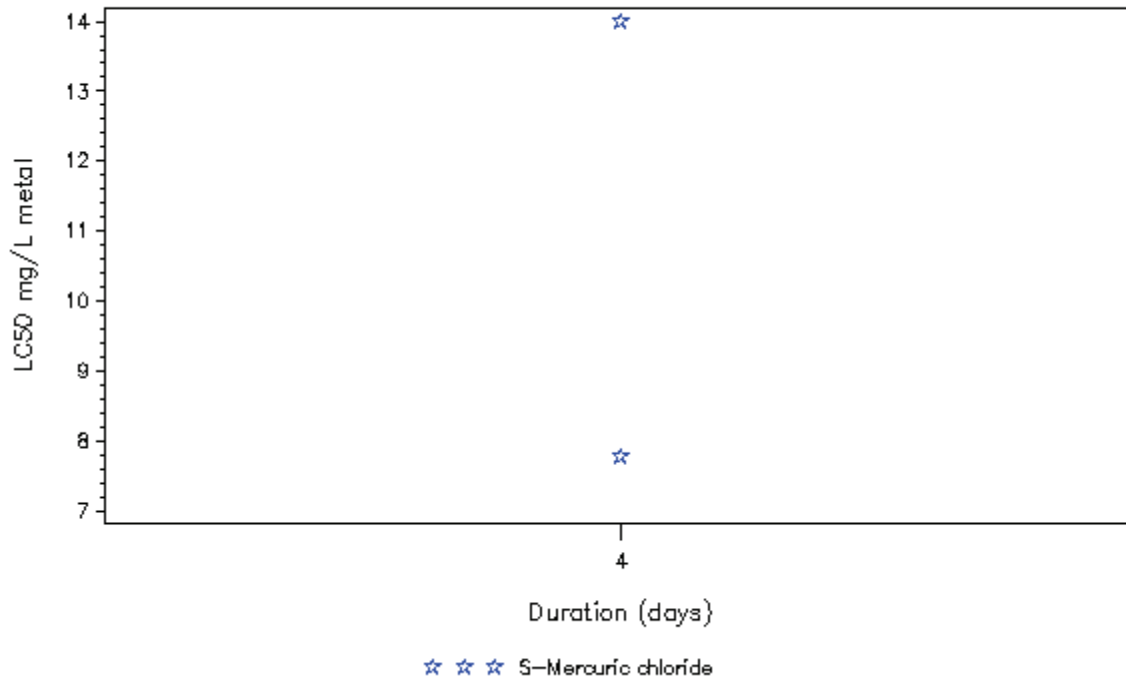


Pimephales promelas exposed to Mercury at T>15C in soft water

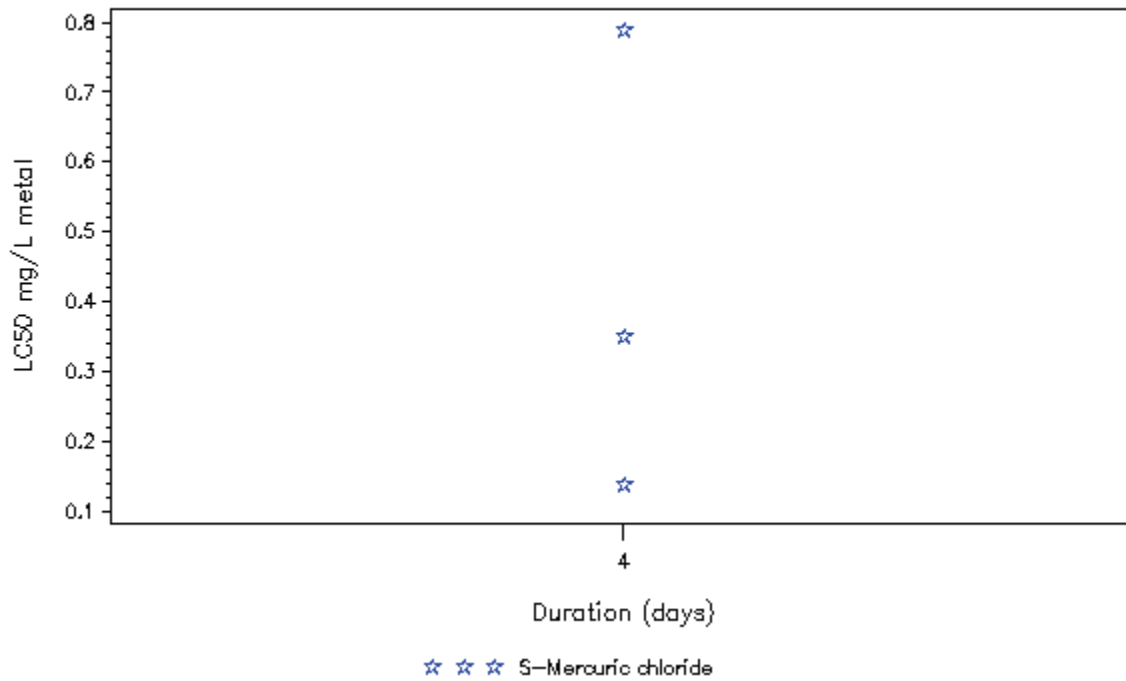


S – Static Test, F – Flowthrough Test, R –Renewal Test

Poecilia reticulata exposed to Mercury at T>15C in hard water

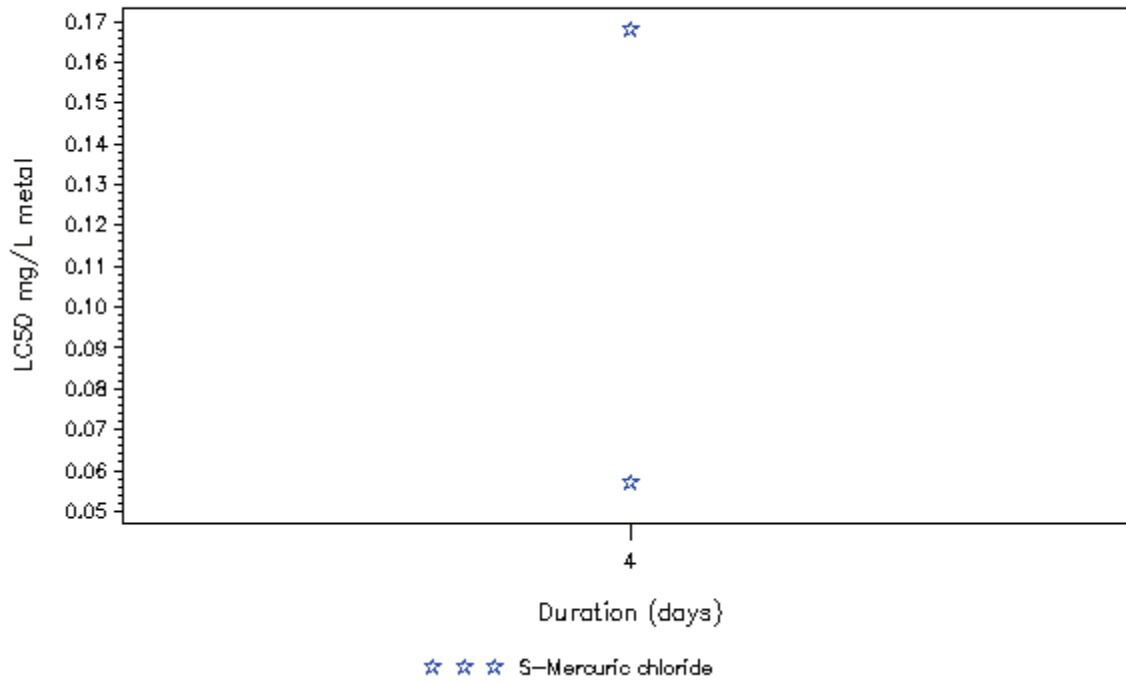


Procambarus clarkii exposed to Mercury at T>15C in very hard water

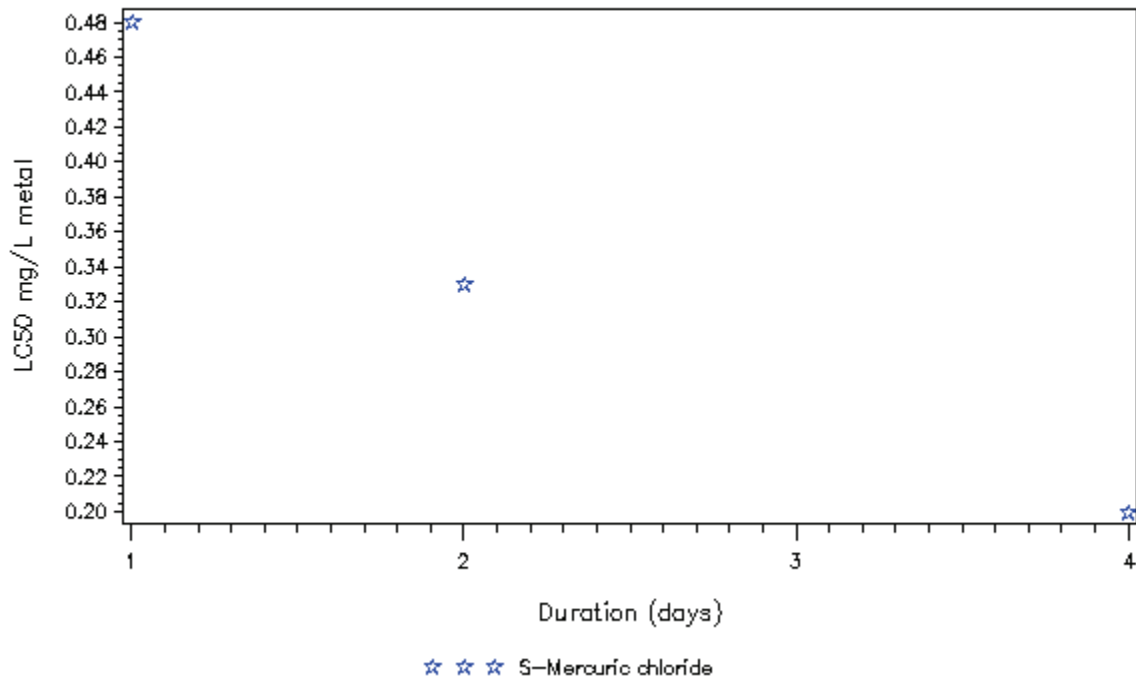


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ptychocheilus lucius exposed to Mercury at T>15C in very hard water

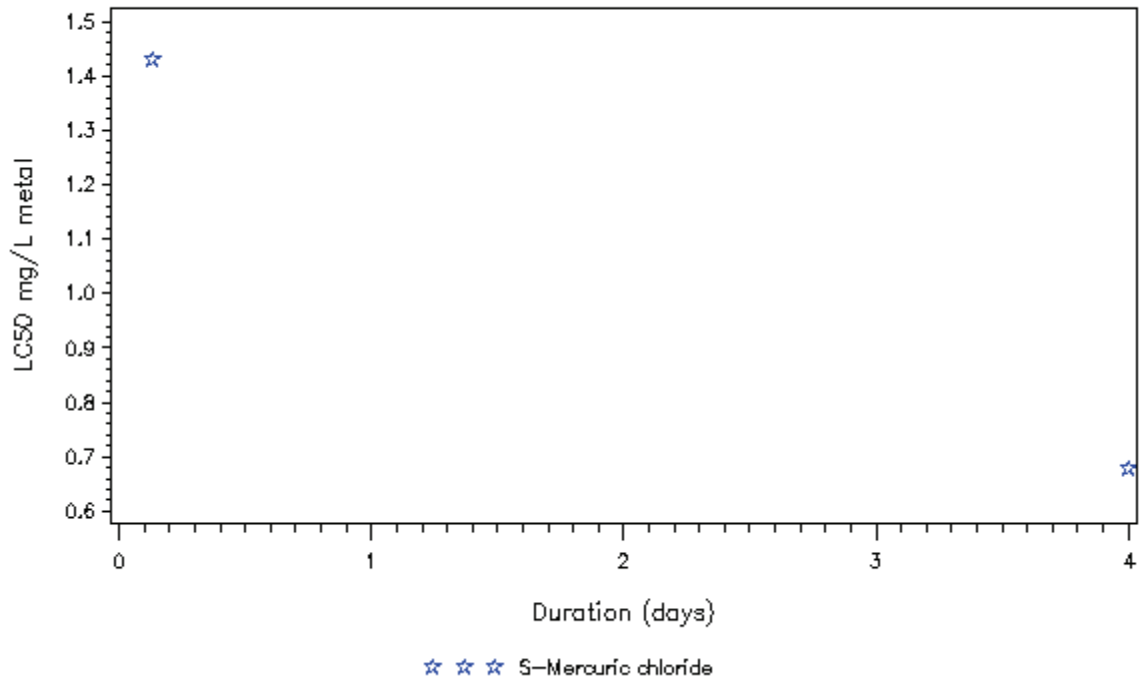


Rana breviceps exposed to Mercury at T>15C in very hard water

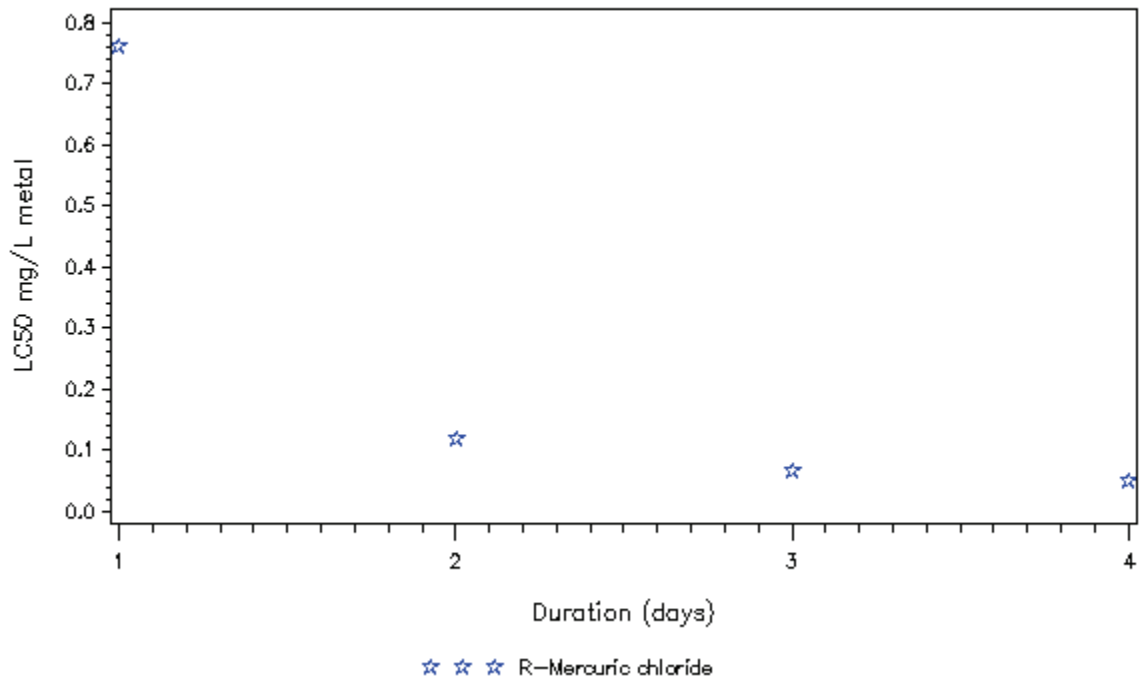


S – Static Test, F – Flowthrough Test, R –Renewal Test

Rana heckscheri exposed to Mercury at T>15C in very hard water

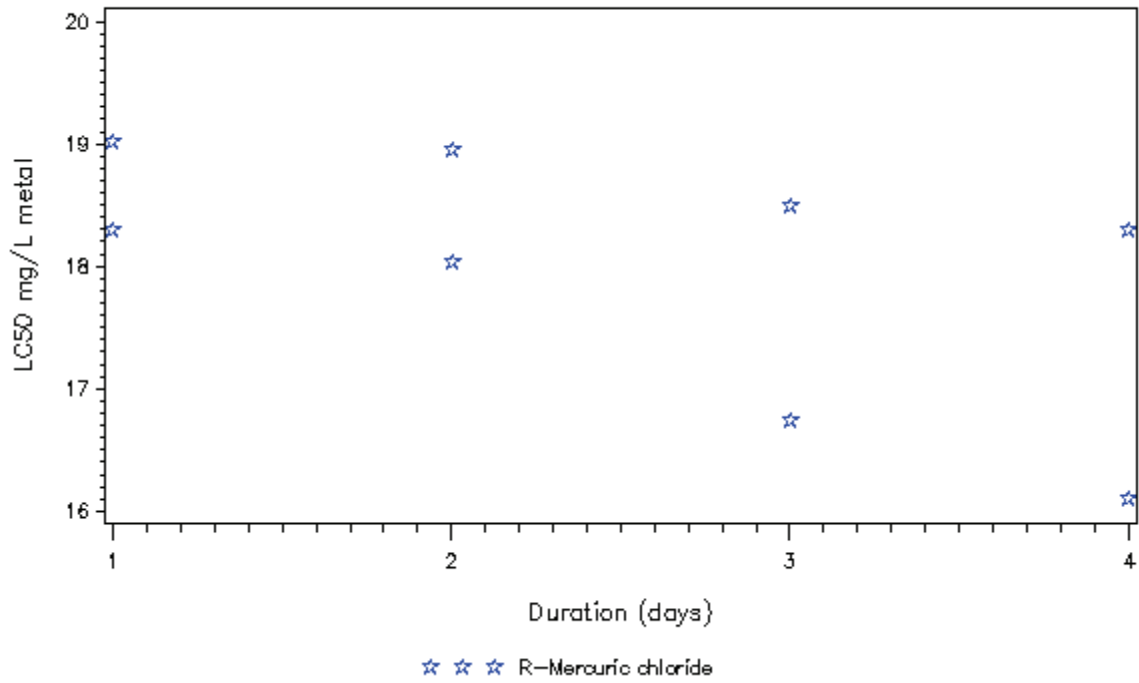


Rana hexadactyla exposed to Mercury at T<=15C in soft water

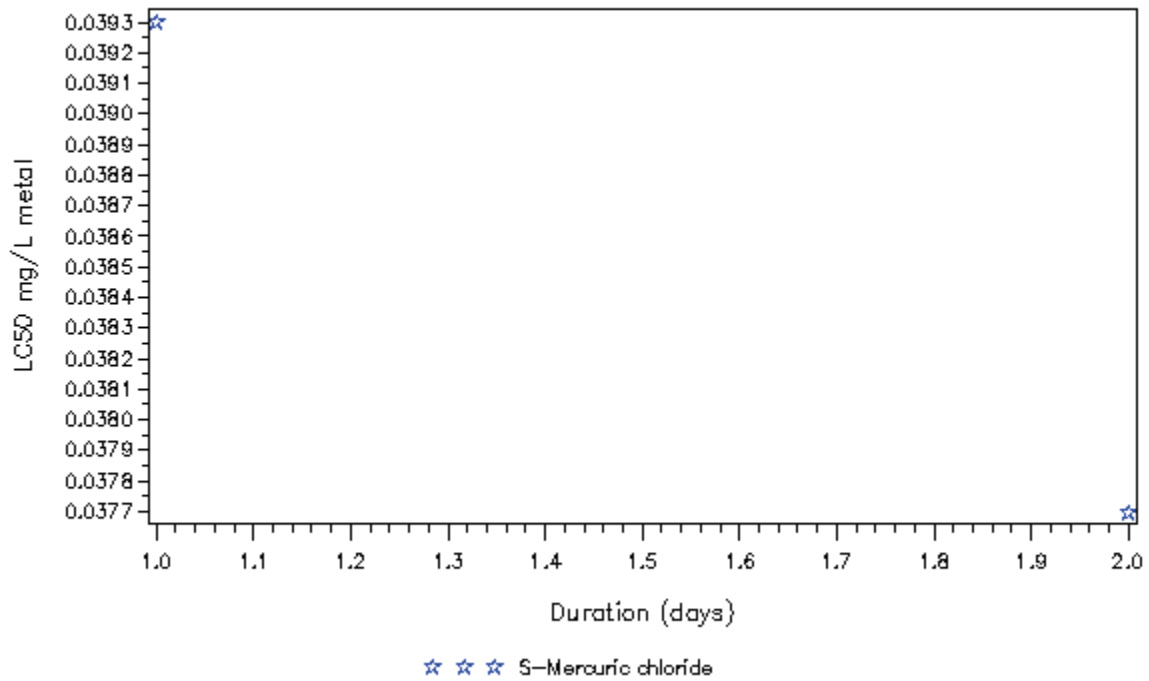


S – Static Test, F – Flowthrough Test, R –Renewal Test

Rana tigrina exposed to Mercury at T>15C in moderate water

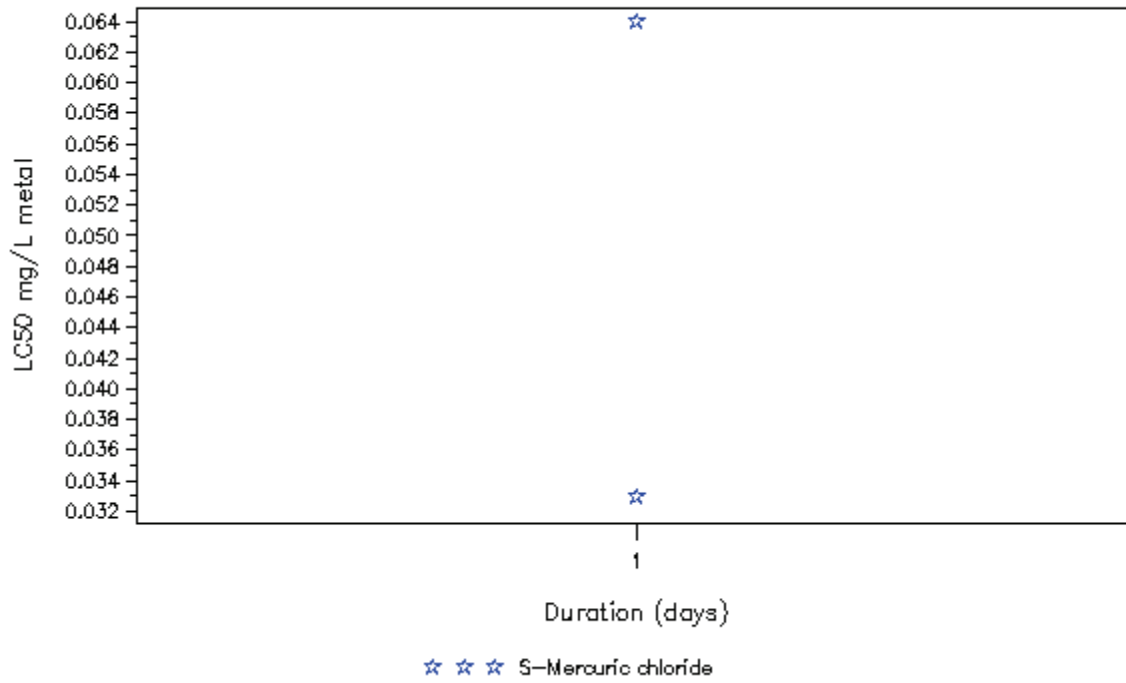


Spirostomum ambiguum exposed to Mercury at T>15C in very soft water

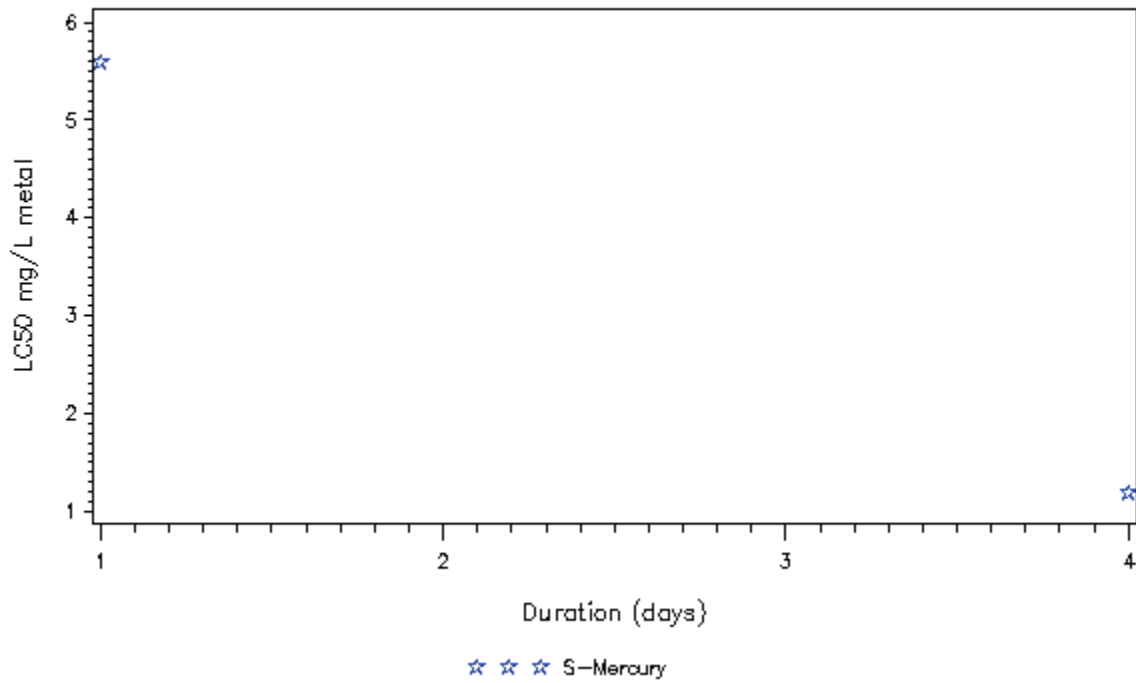


S – Static Test, F – Flowthrough Test, R –Renewal Test

Streptocephalus proboscideus exposed to Mercury at T>15C in moderate water

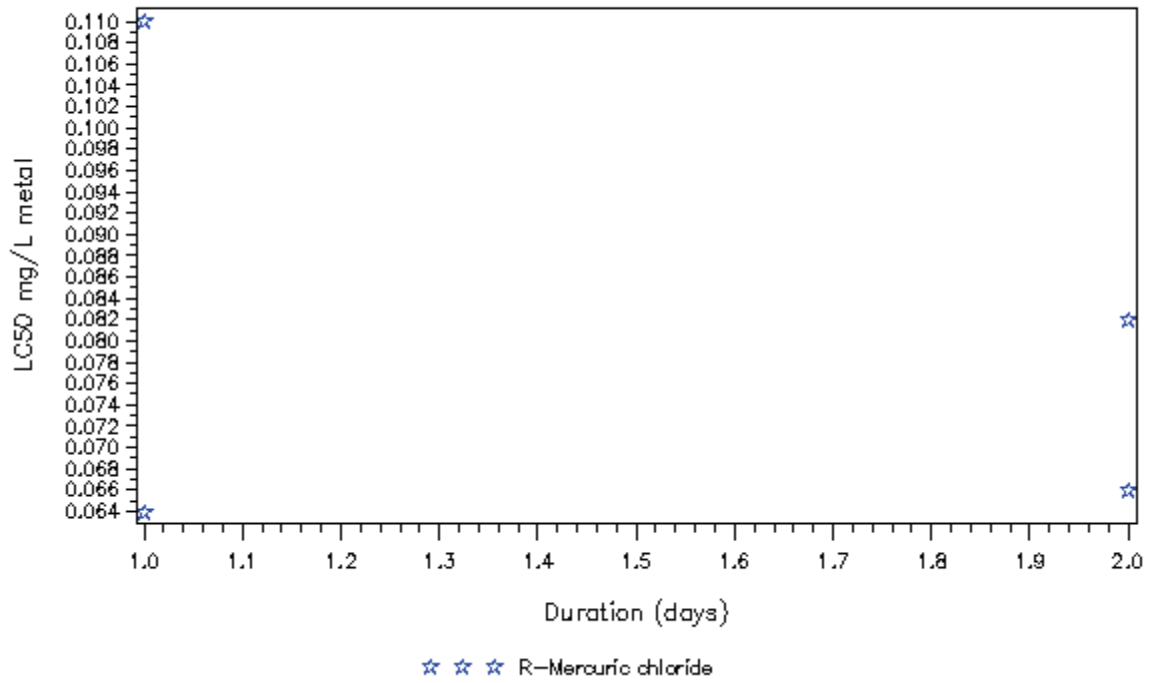


Trichoptera exposed to Mercury at T>15C in soft water

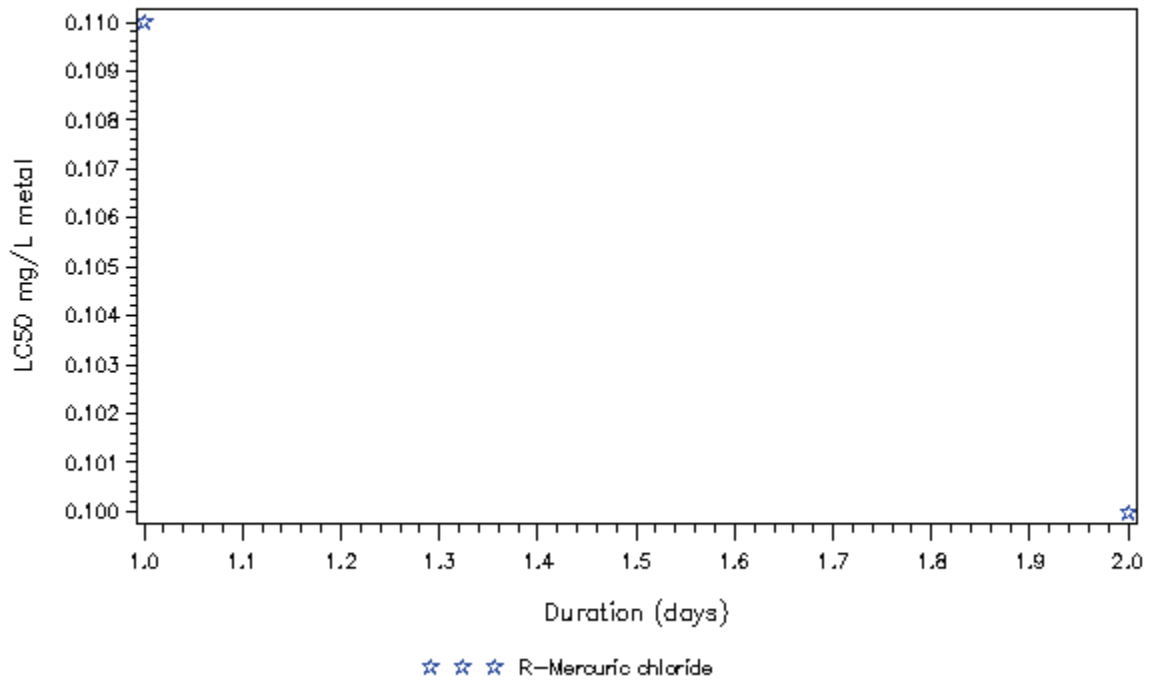


S – Static Test, F – Flowthrough Test, R –Renewal Test

Tubifex tubifex exposed to Mercury at T>15C in soft water

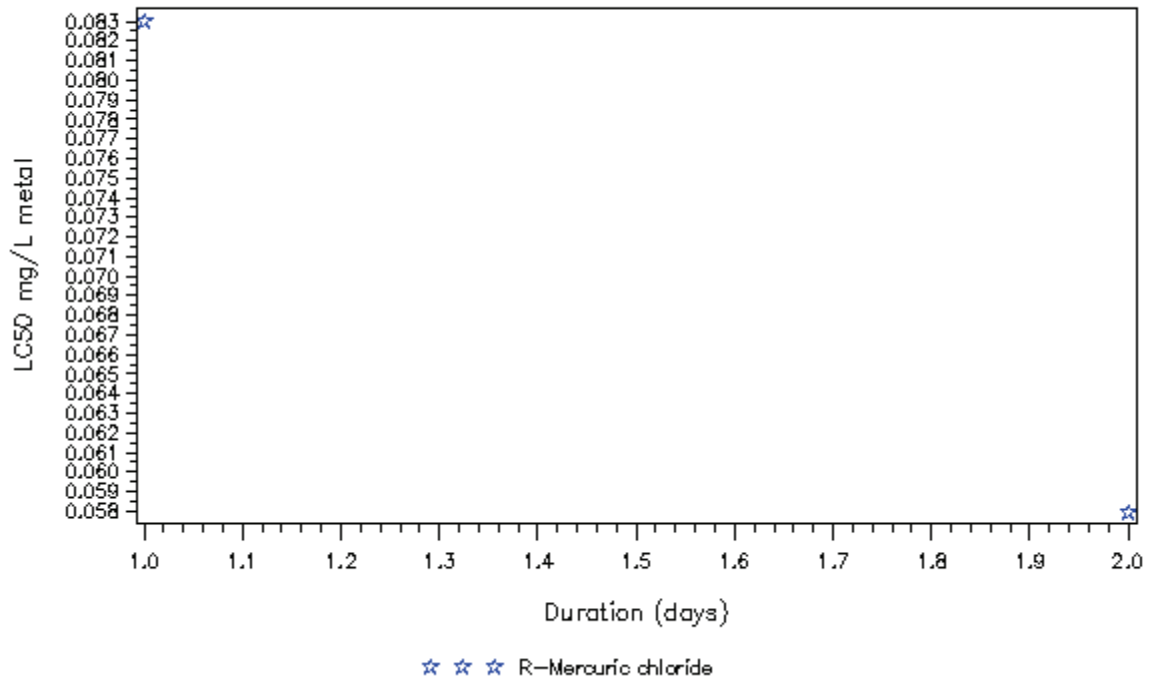


Tubifex tubifex exposed to Mercury at T>15C in very hard water

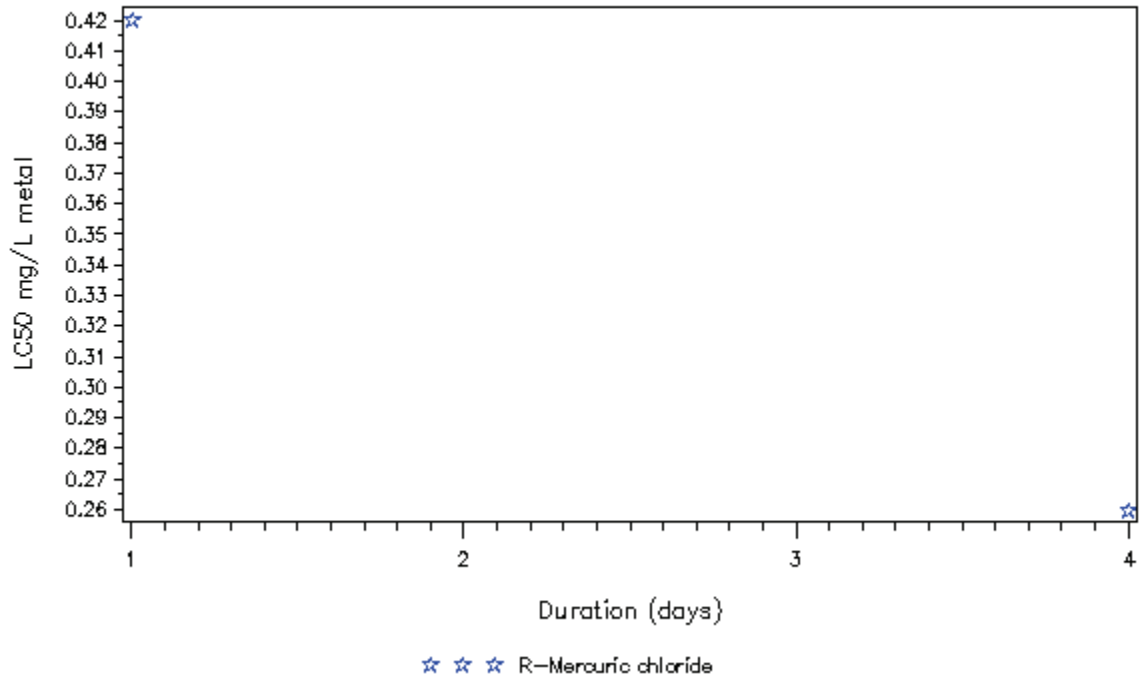


S – Static Test, F – Flowthrough Test, R –Renewal Test

Tubifex tubifex exposed to Mercury at T>15C in very soft water

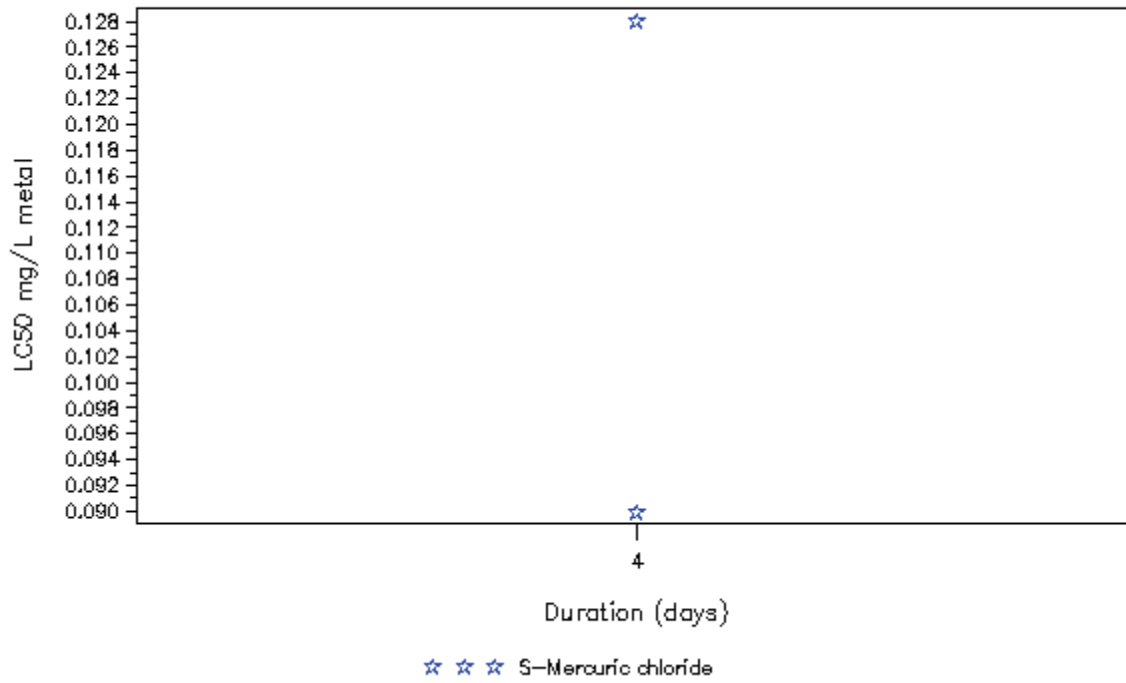


Viviparus bengalensis exposed to Mercury at T>15C in soft water

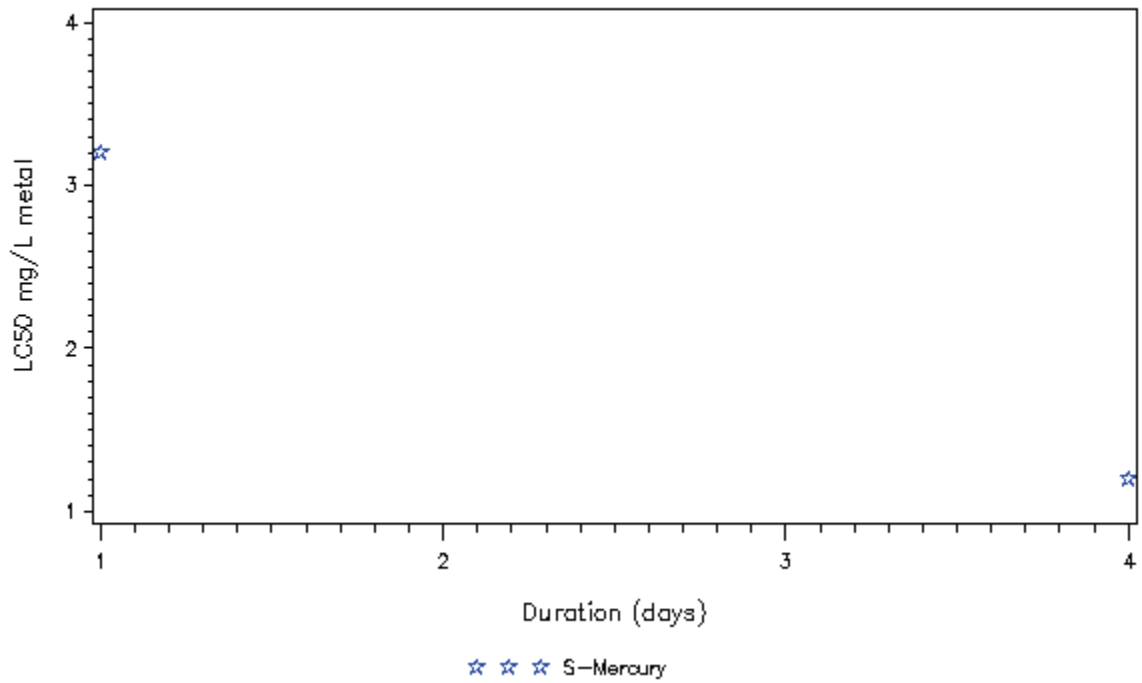


S – Static Test, F – Flowthrough Test, R –Renewal Test

Xyrauchen texanus exposed to Mercury at T>15C in very hard water

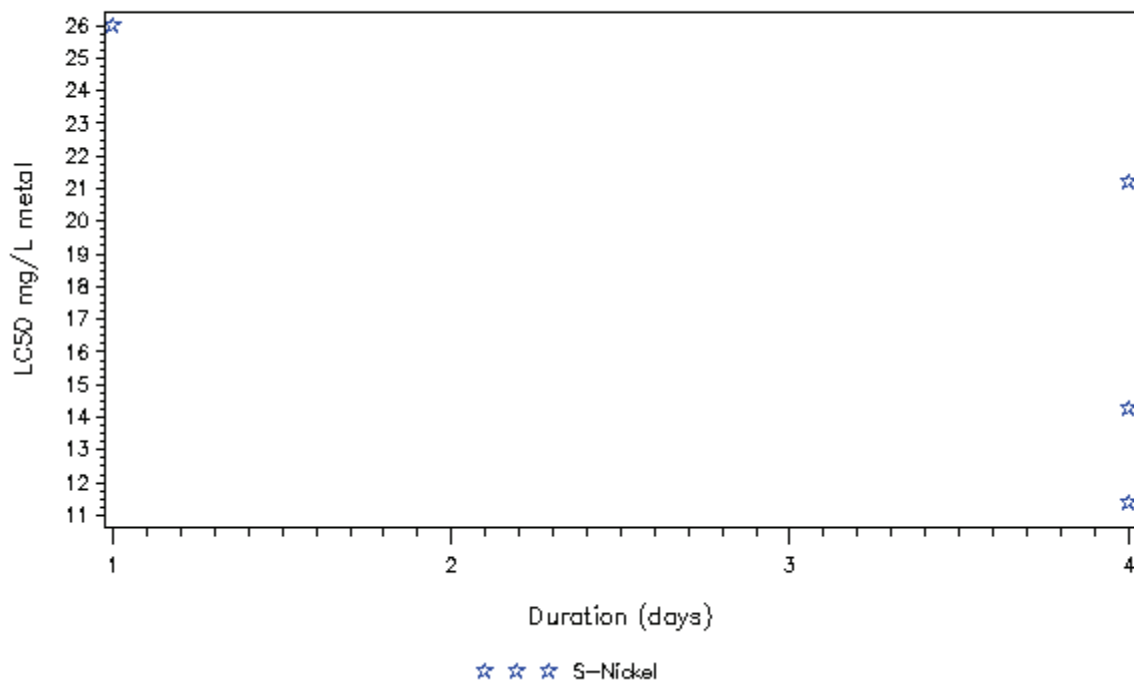


Zygoptera exposed to Mercury at T>15C in soft water

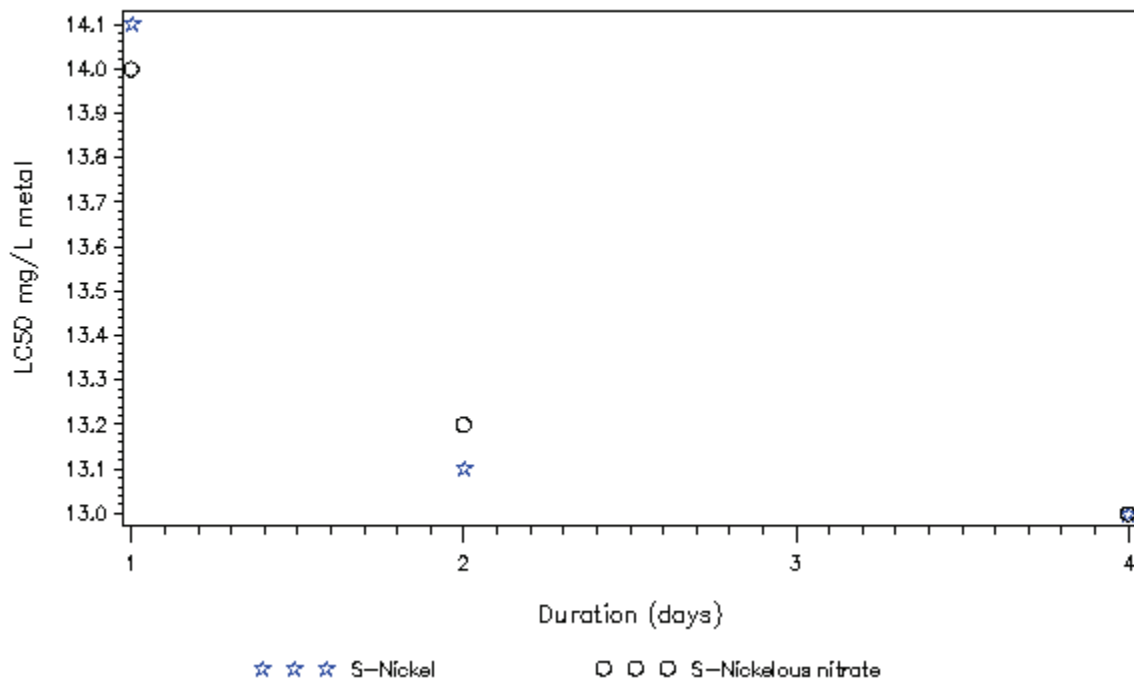


S – Static Test, F – Flowthrough Test, R –Renewal Test

Amnicola exposed to Nickel at T>15C in soft water

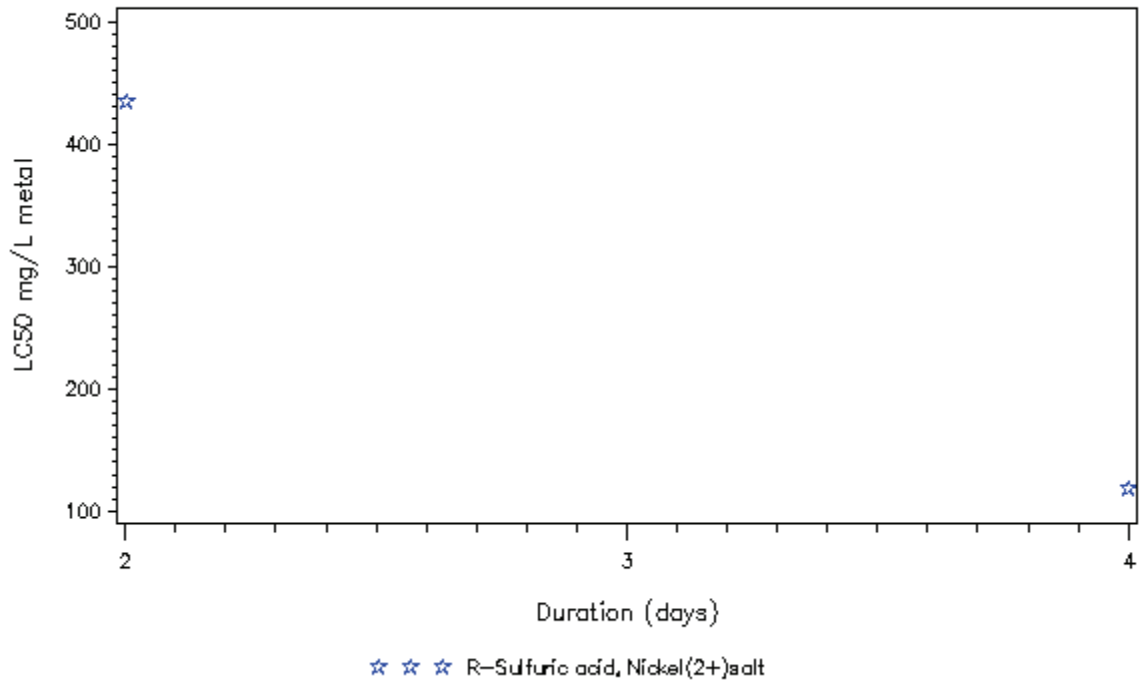


Anguilla rostrata exposed to Nickel at T>15C in soft water

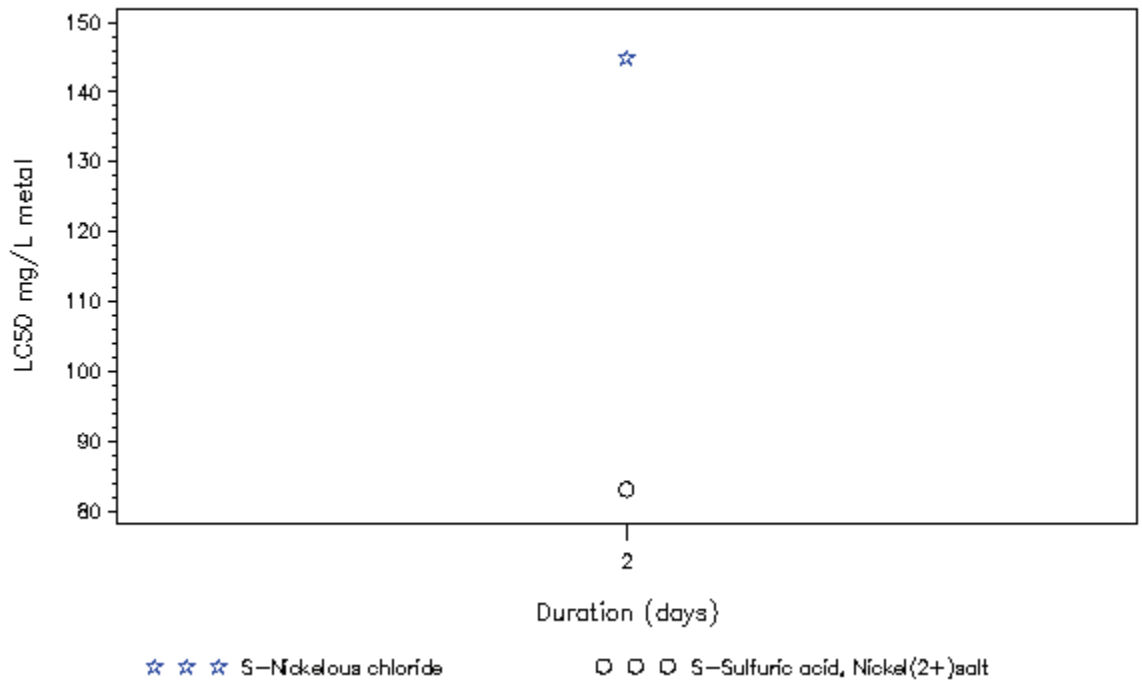


S – Static Test, F – Flowthrough Test, R –Renewal Test

Asellus aquaticus exposed to Nickel at T<=15C in soft water

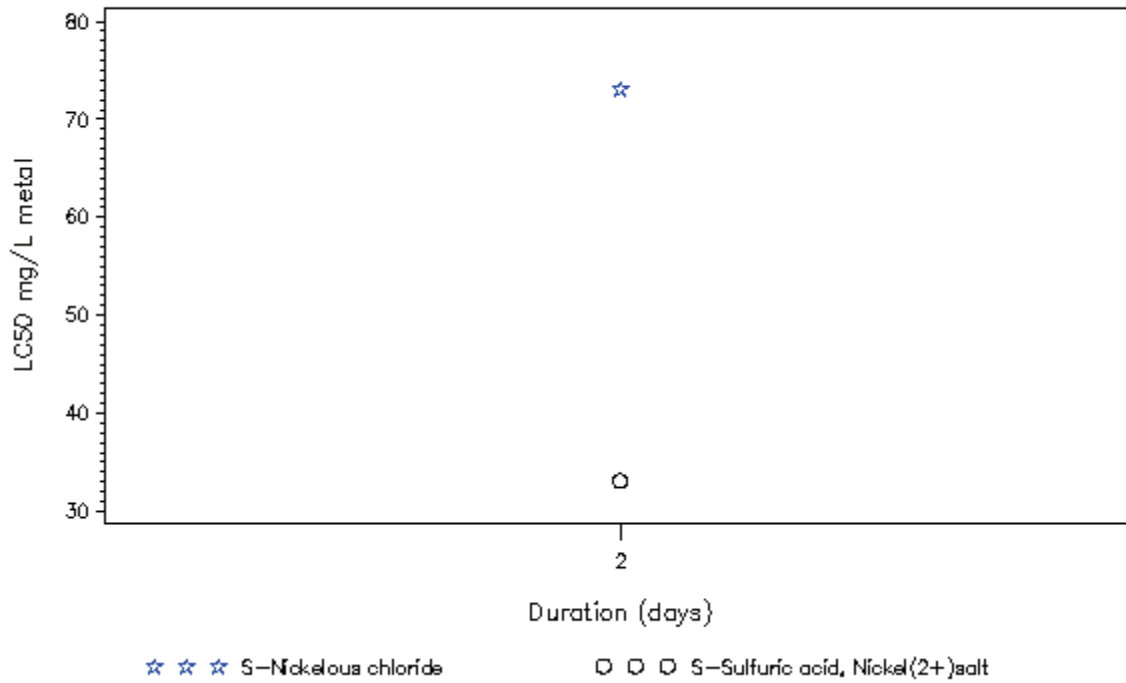


Barbus conchoniuis exposed to Nickel at T<=15C in very hard water

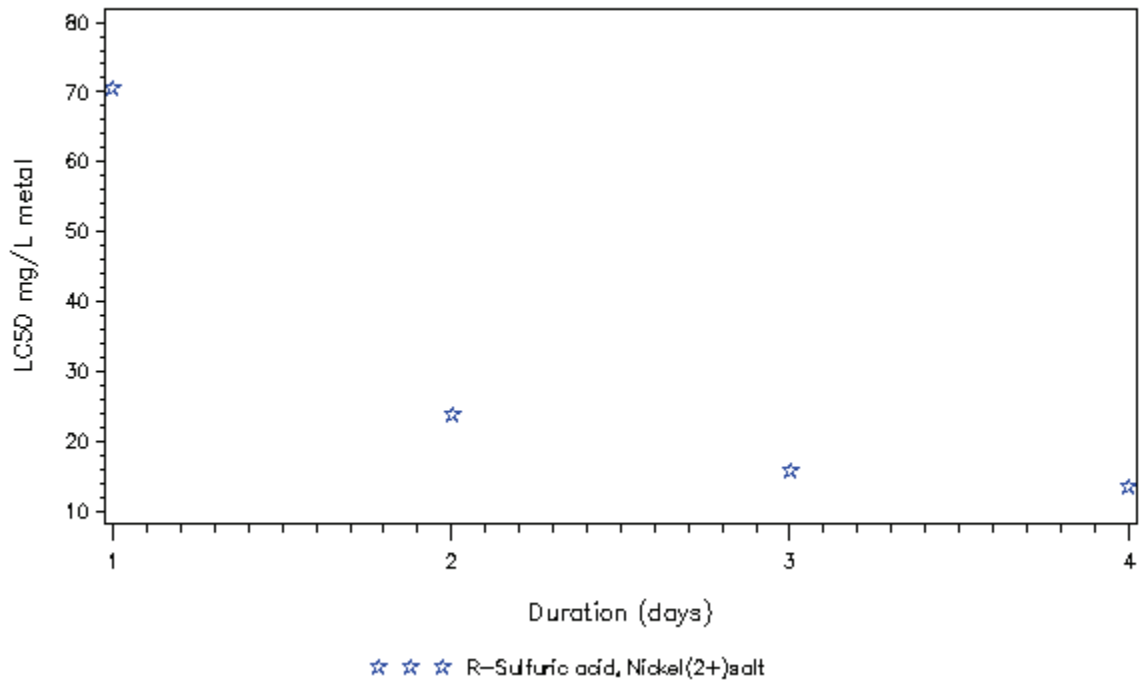


S – Static Test, F – Flowthrough Test, R –Renewal Test

Barbus conchoniuis exposed to Nickel at T<=15C in very soft water

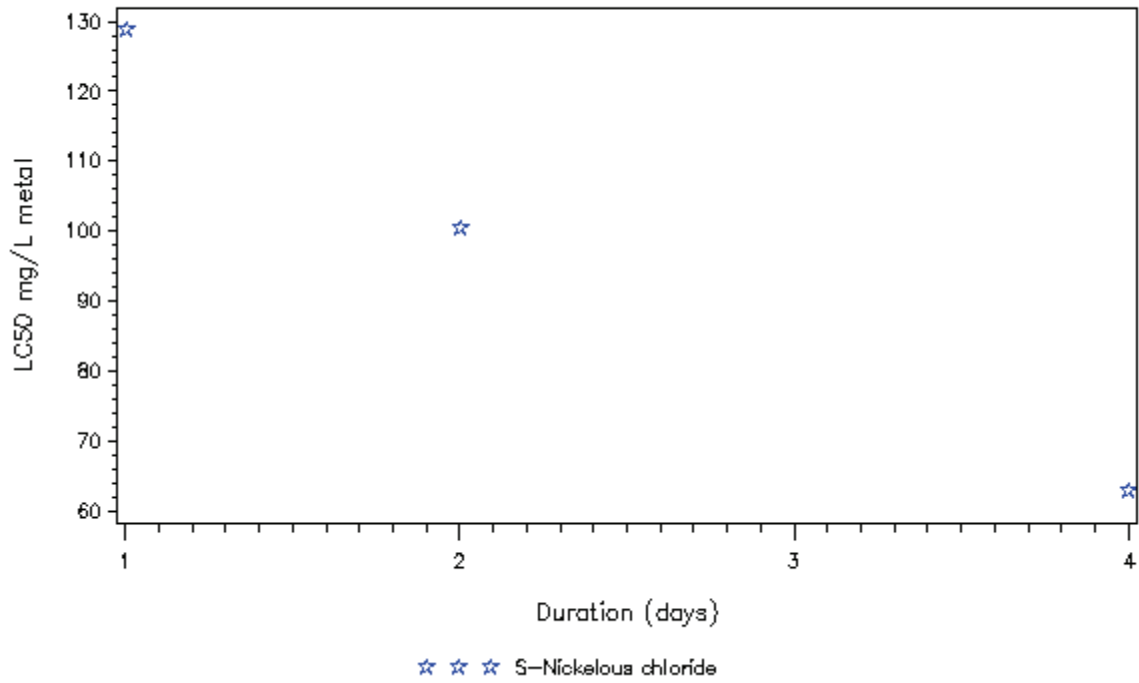


Barbus saphore exposed to Nickel at T>15C in very hard water

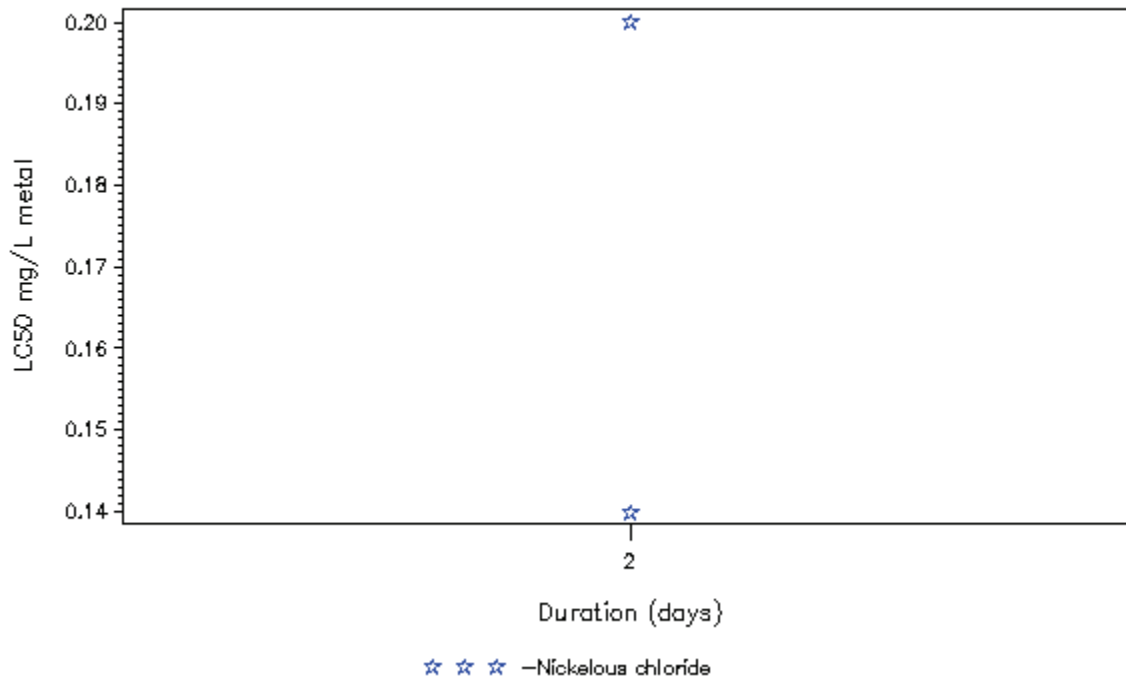


S – Static Test, F – Flowthrough Test, R –Renewal Test

Carassius auratus exposed to Nickel at T>15C in hard water

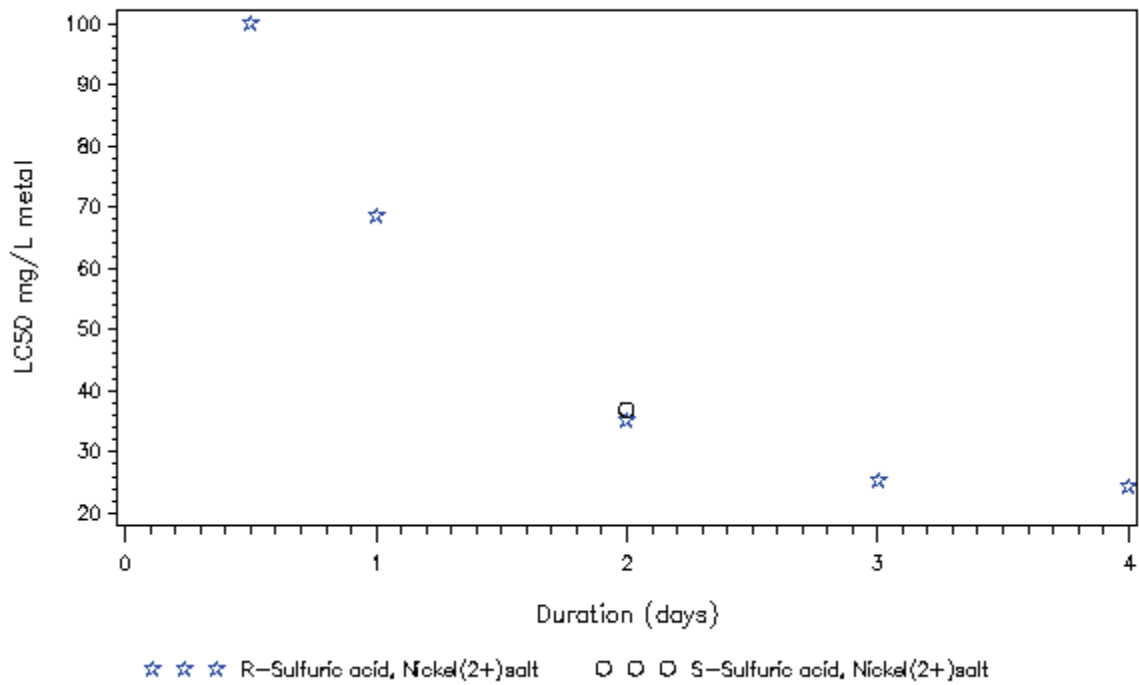


Ceriodaphnia dubia exposed to Nickel at T>15C in very hard water

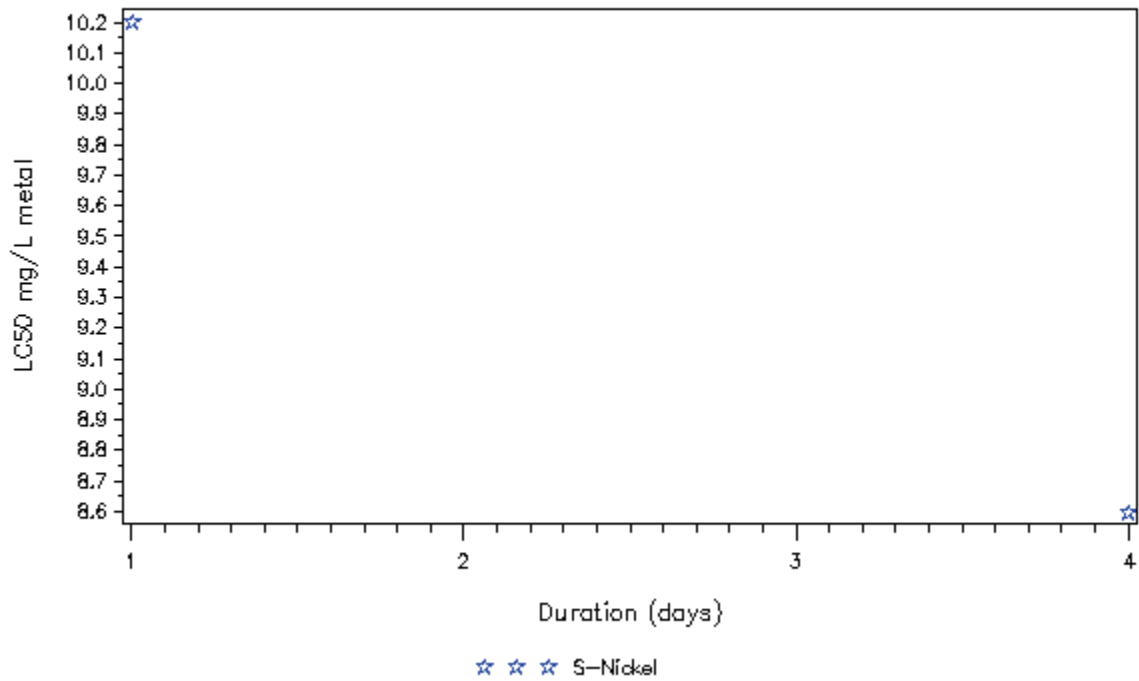


S – Static Test, F – Flowthrough Test, R –Renewal Test

Channa punctata exposed to Nickel at T>15C in very hard water

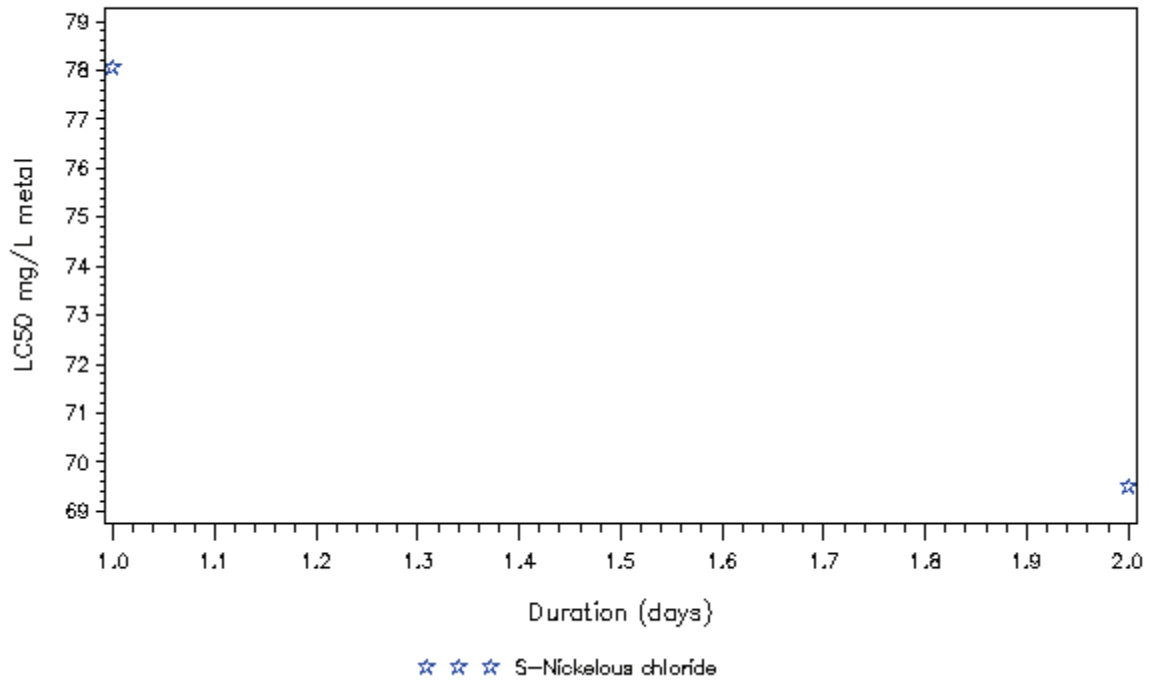


Chironomus exposed to Nickel at T>15C in soft water

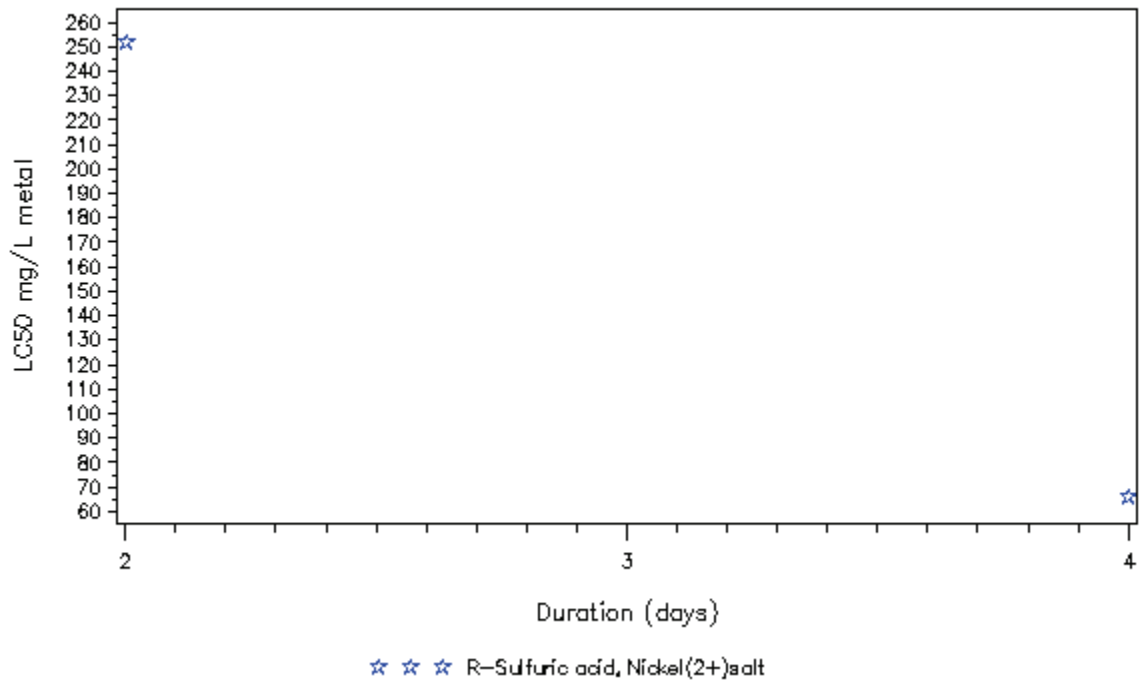


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus tentans exposed to Nickel at T<=15C in soft water

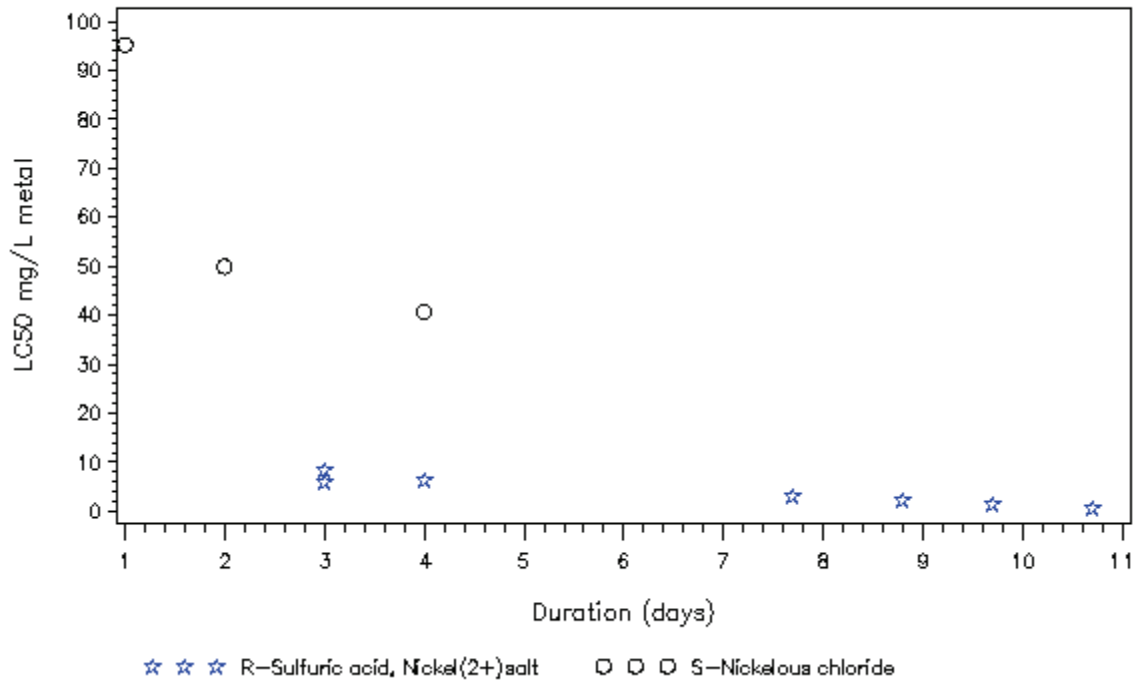


Crangonyx pseudogracilis exposed to Nickel at T<=15C in soft water

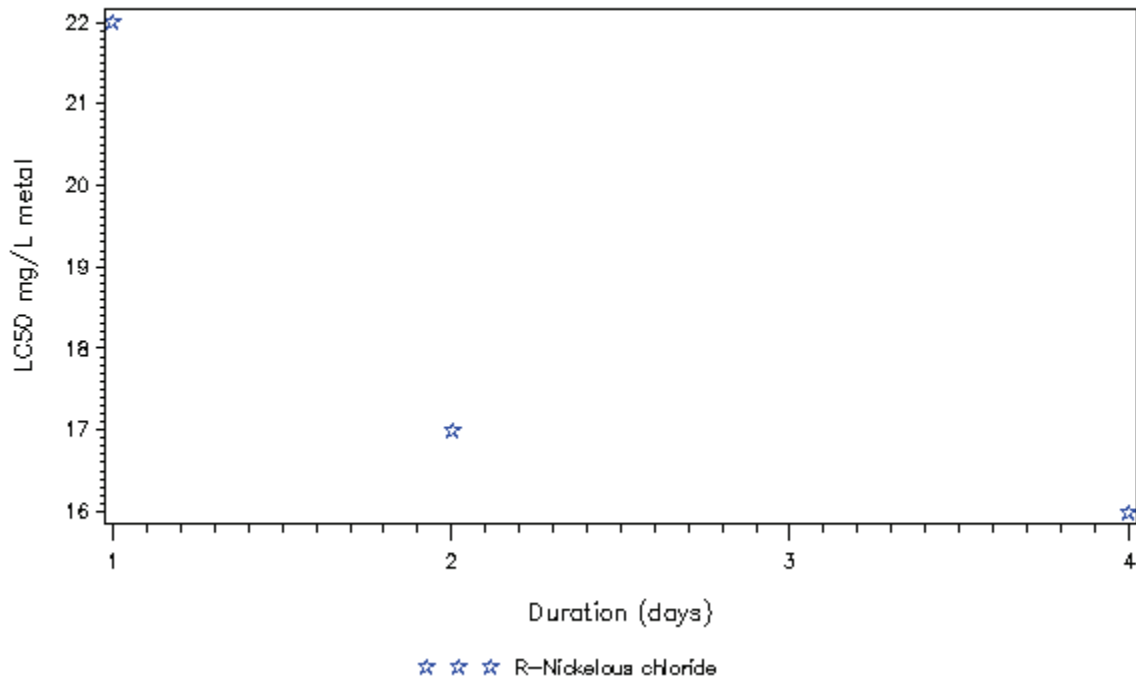


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Nickel at T>15C in hard water

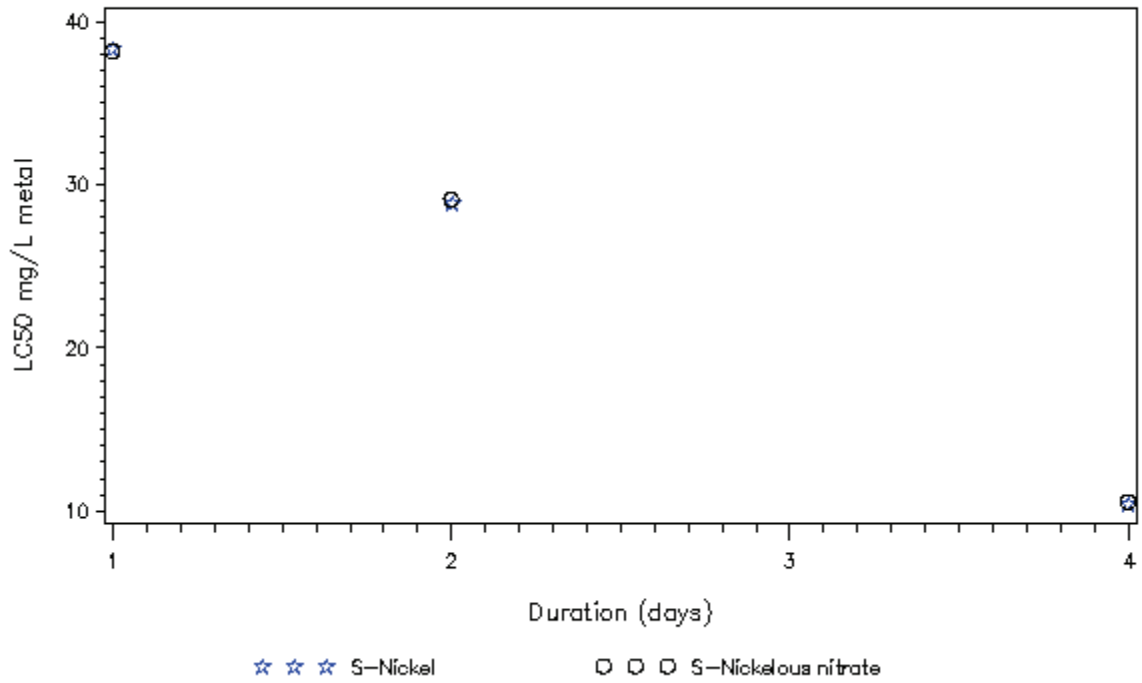


Cyprinus carpio exposed to Nickel at T>15C in moderate water

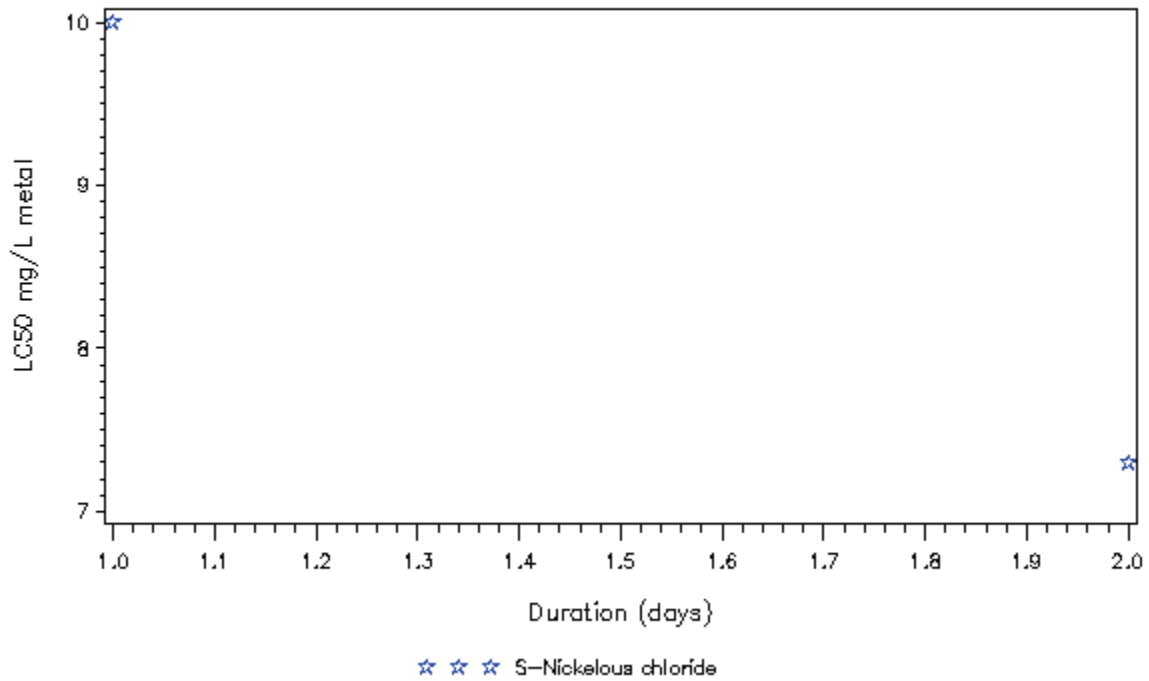


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Nickel at T>15C in soft water

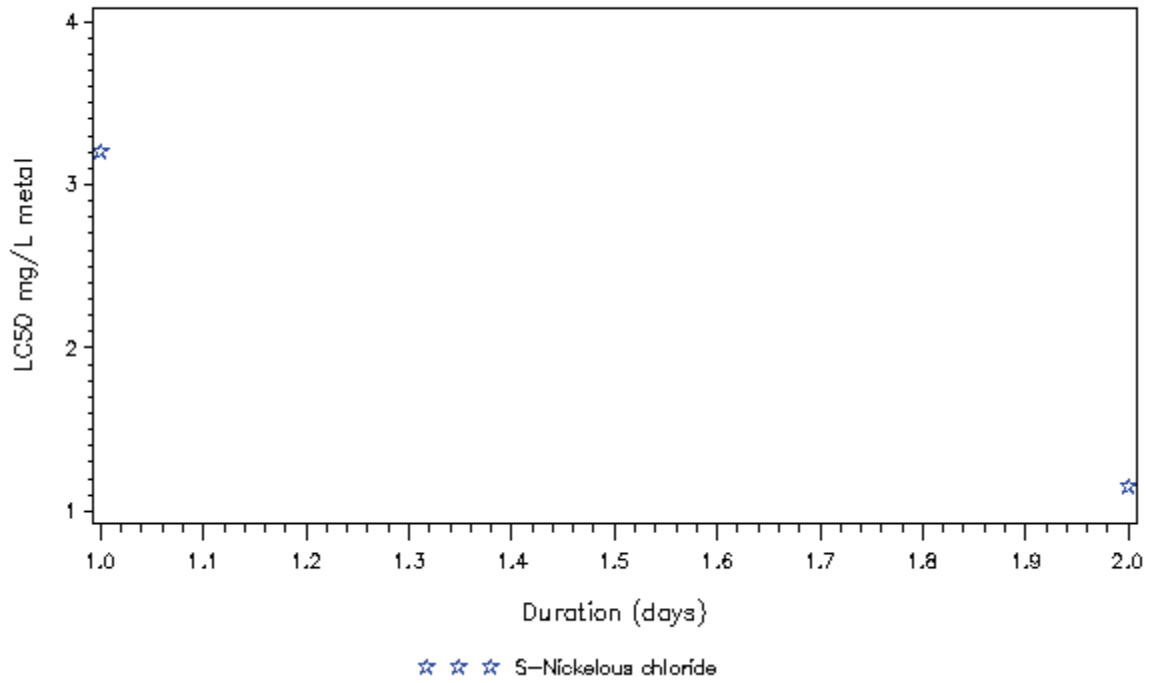


Daphnia magna exposed to Nickel at T<=15C in very hard water

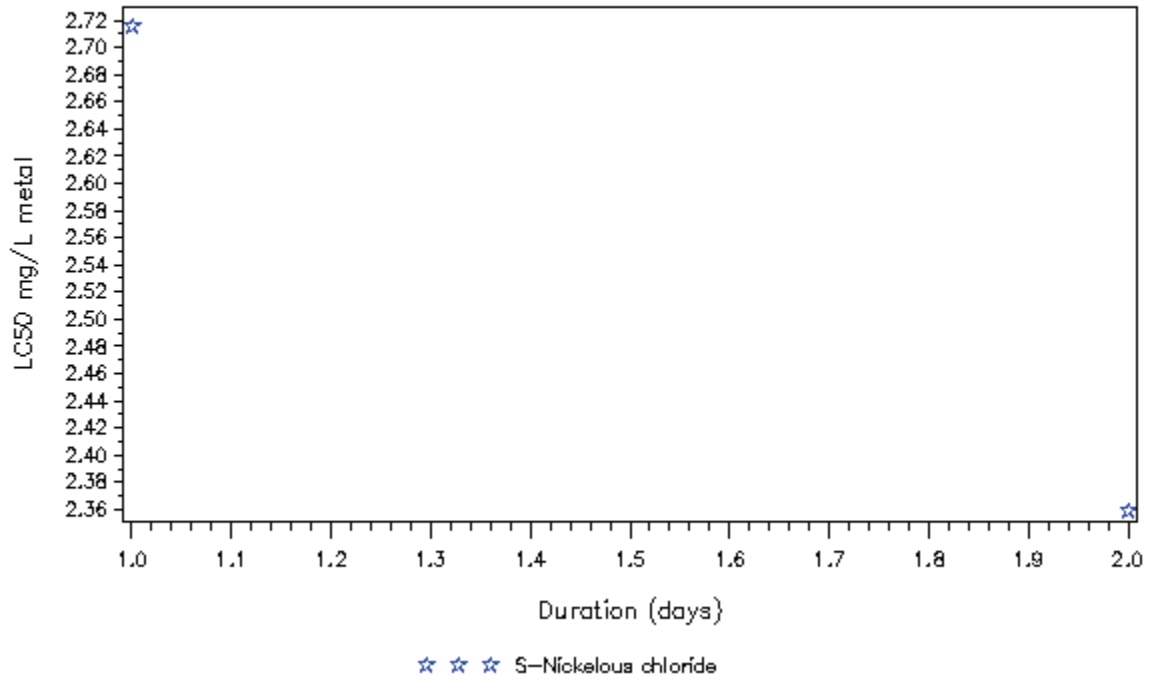


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Nickel at T>15C in hard water

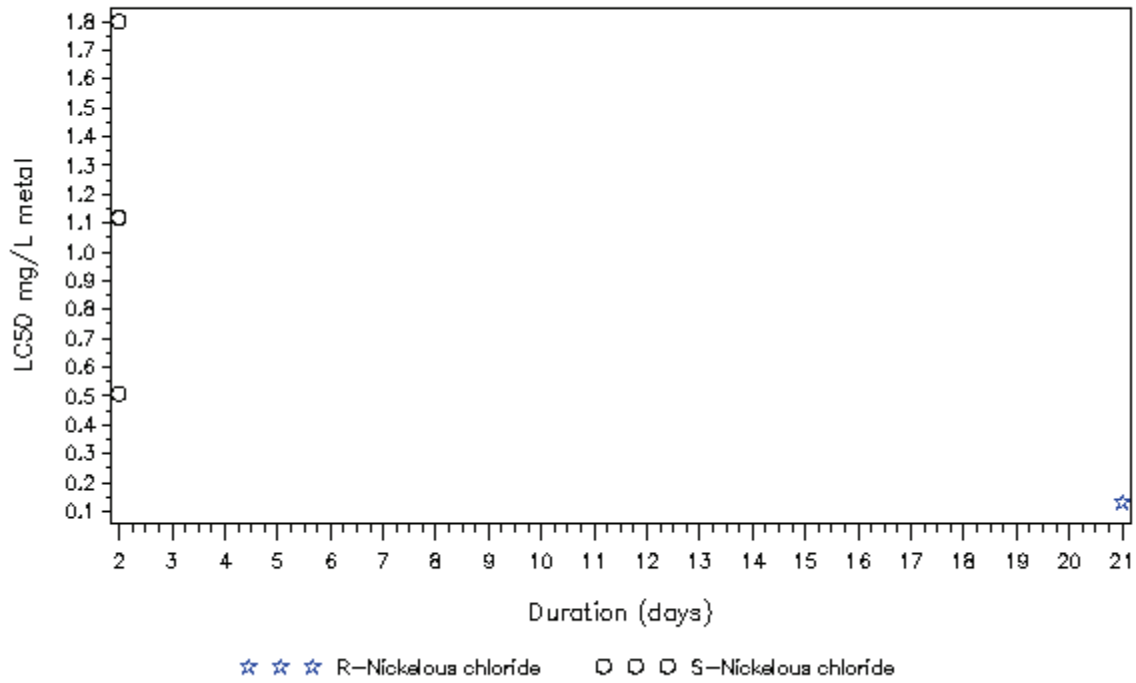


Daphnia magna exposed to Nickel at T>15C in moderate water

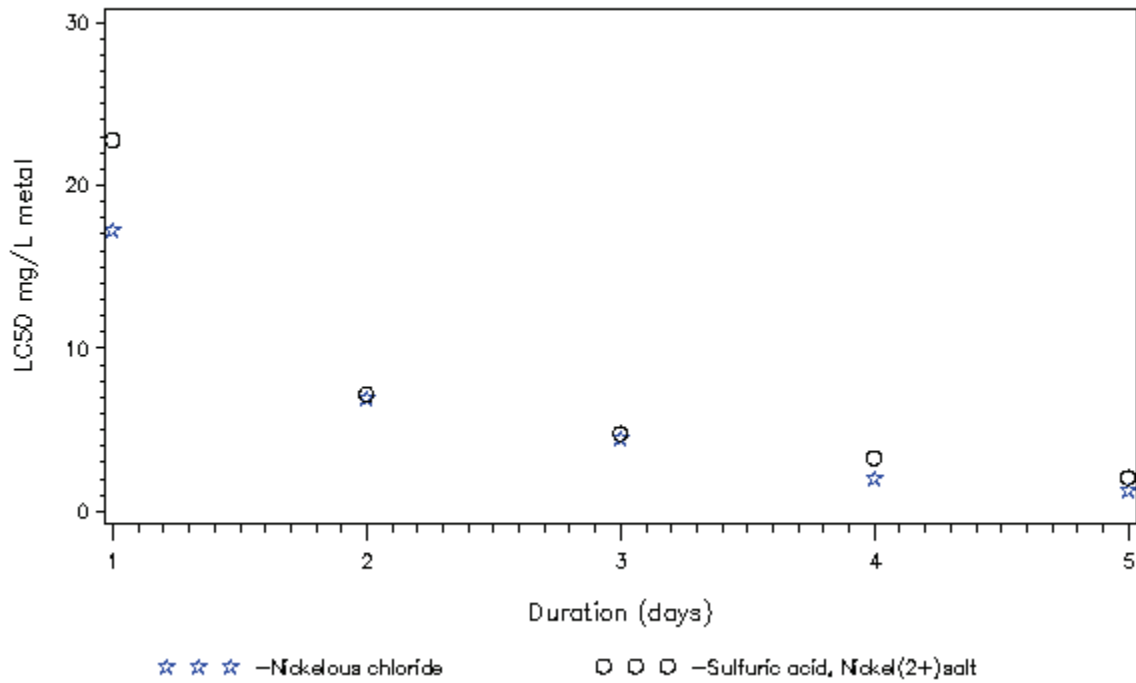


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Nickel at T>15C in soft water

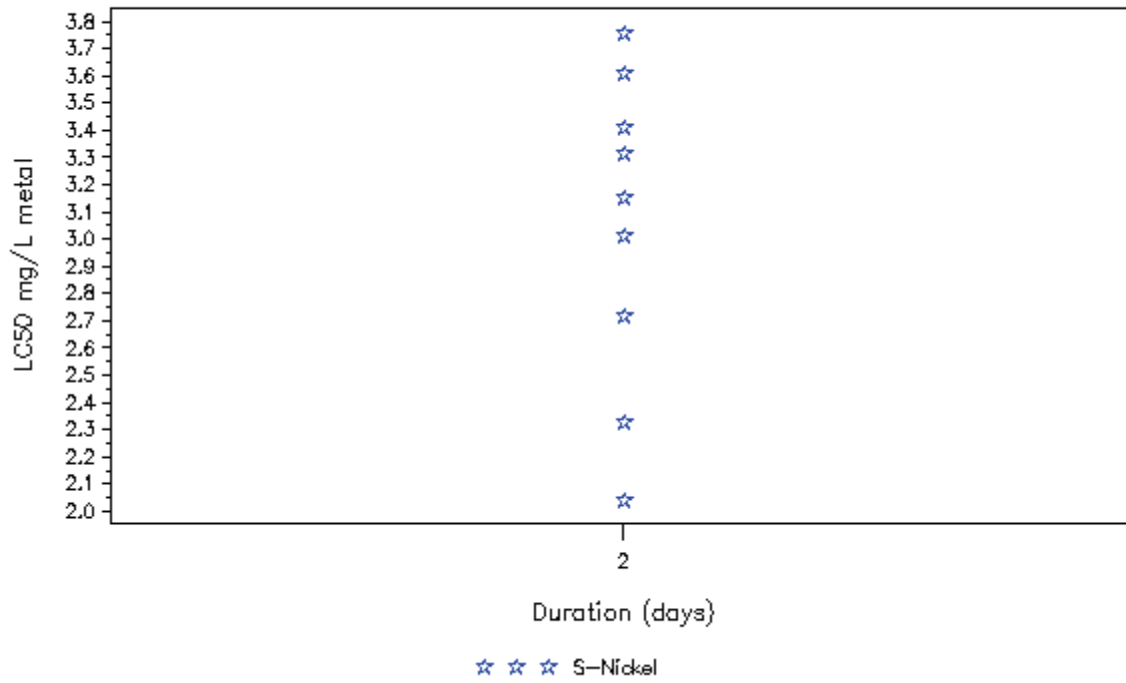


Daphnia magna exposed to Nickel at T>15C in very hard water

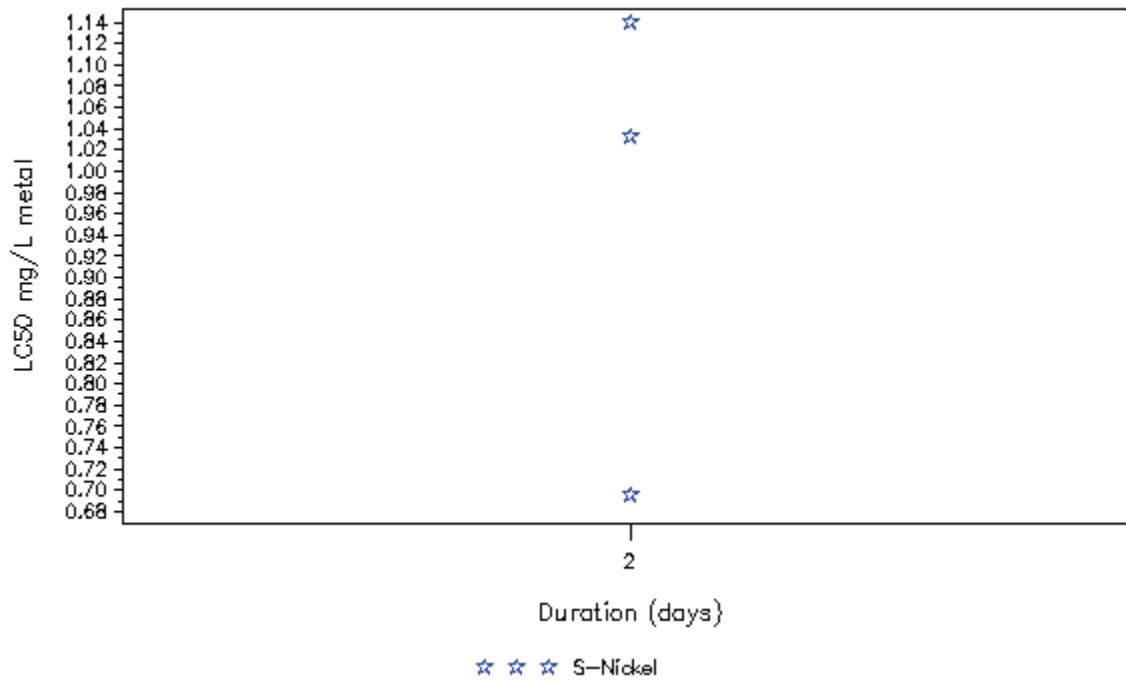


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia pulicaria exposed to Nickel at T>15C in moderate water

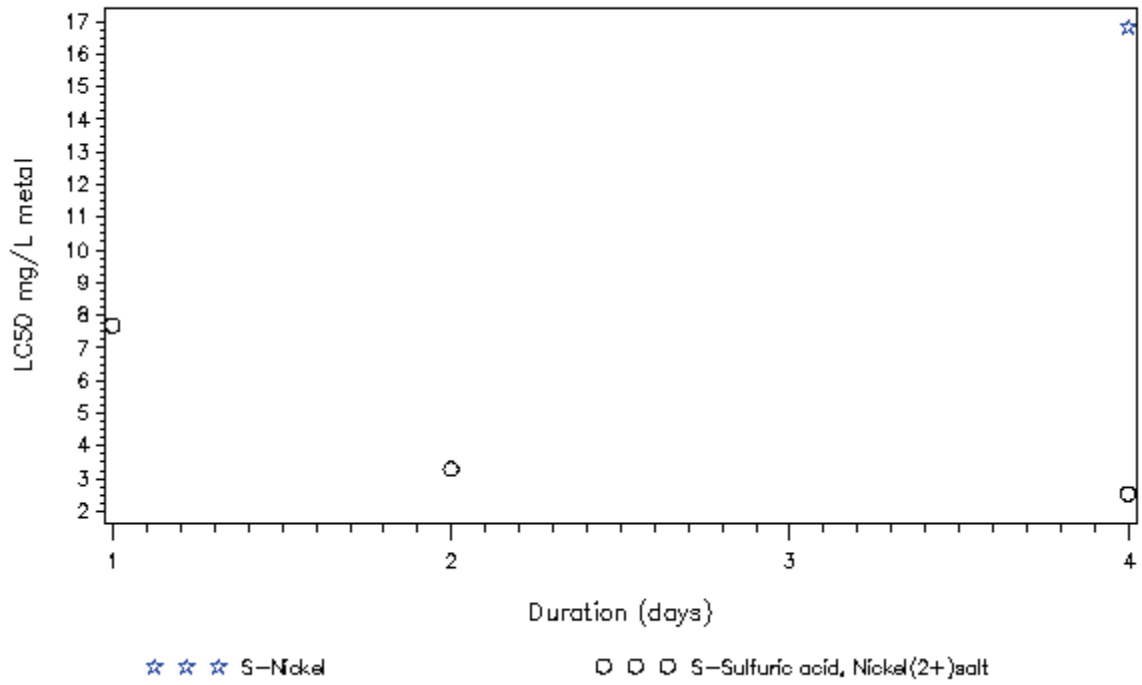


Daphnia pulicaria exposed to Nickel at T>15C in soft water

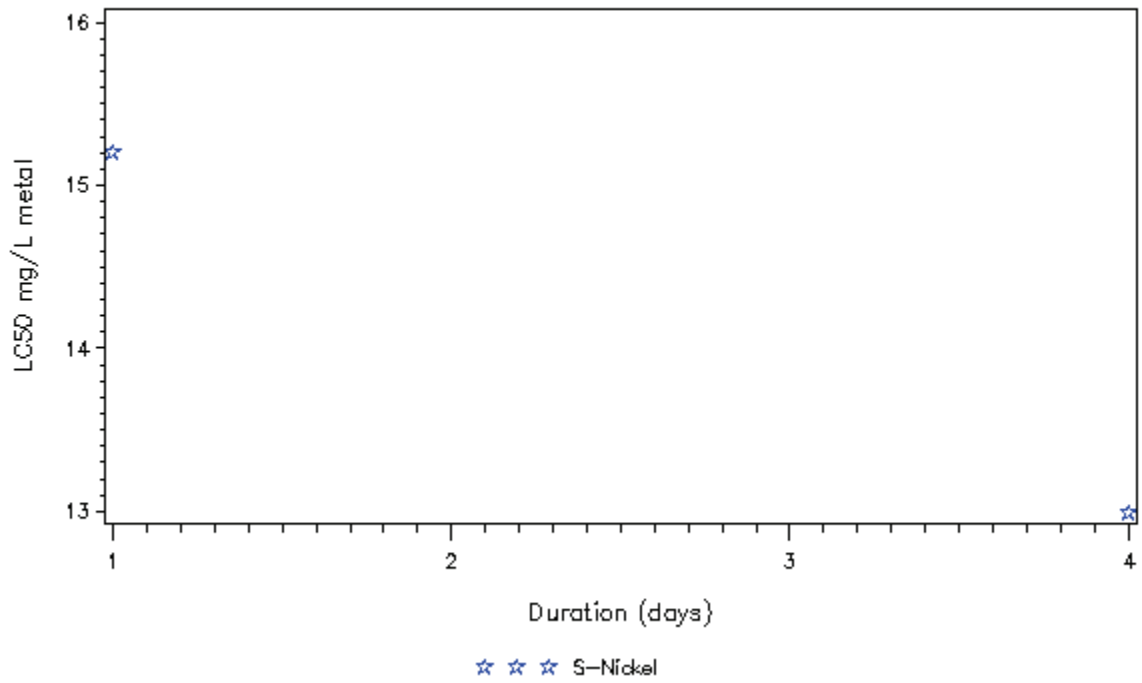


S – Static Test, F – Flowthrough Test, R –Renewal Test

Dugesia tigrina exposed to Nickel at T>15C in soft water

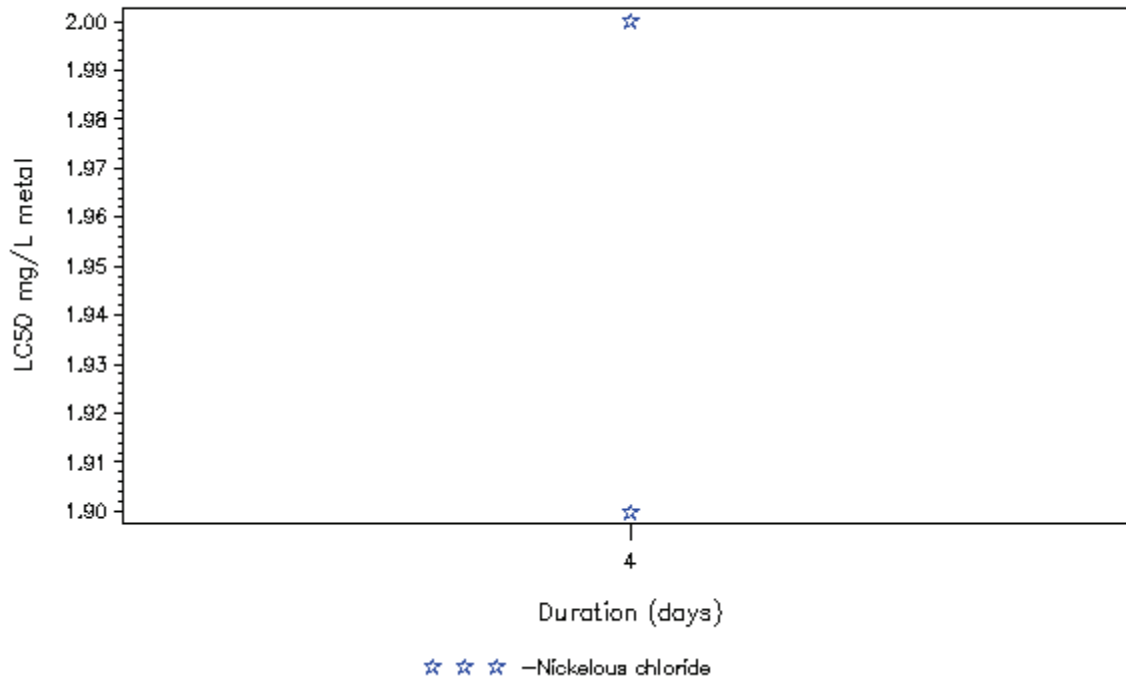


Gammarus exposed to Nickel at T>15C in soft water

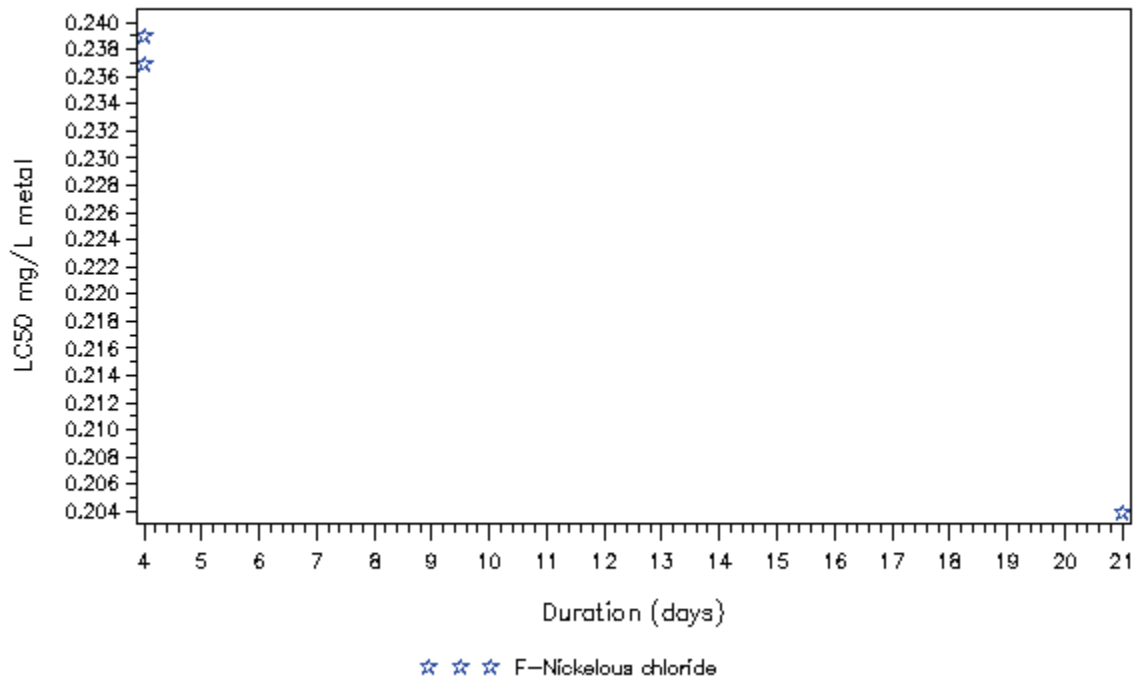


S – Static Test, F – Flowthrough Test, R –Renewal Test

Hyalella azteca exposed to Nickel at T>15C in very hard water

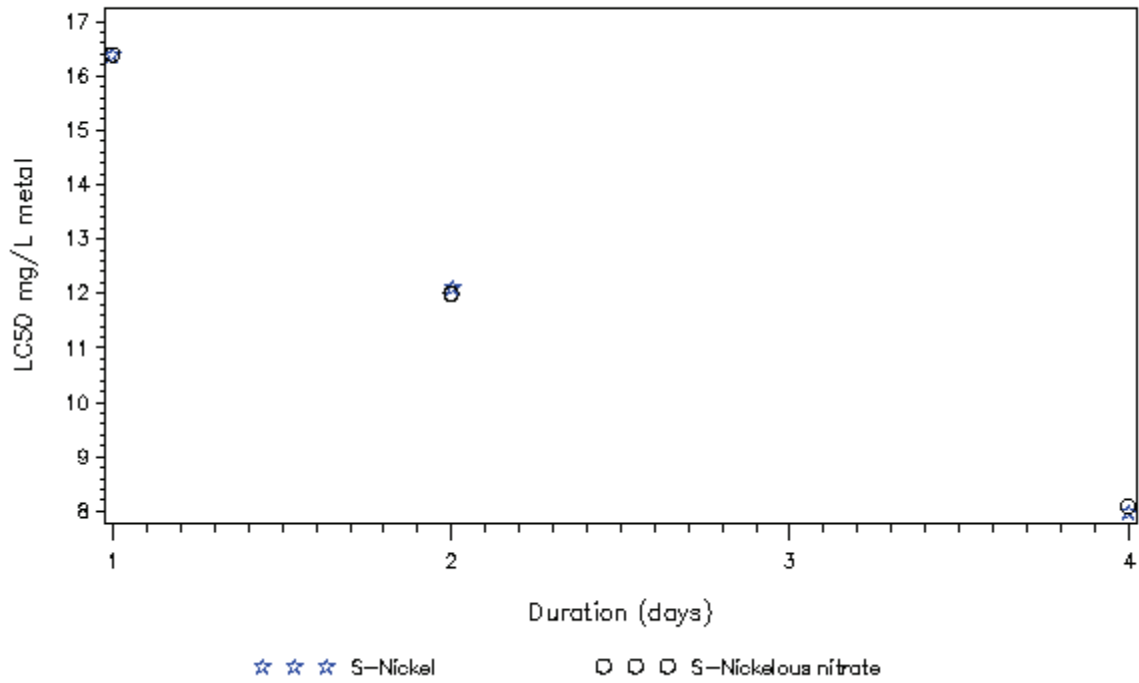


Juga plicifera exposed to Nickel at T<=15C in soft water

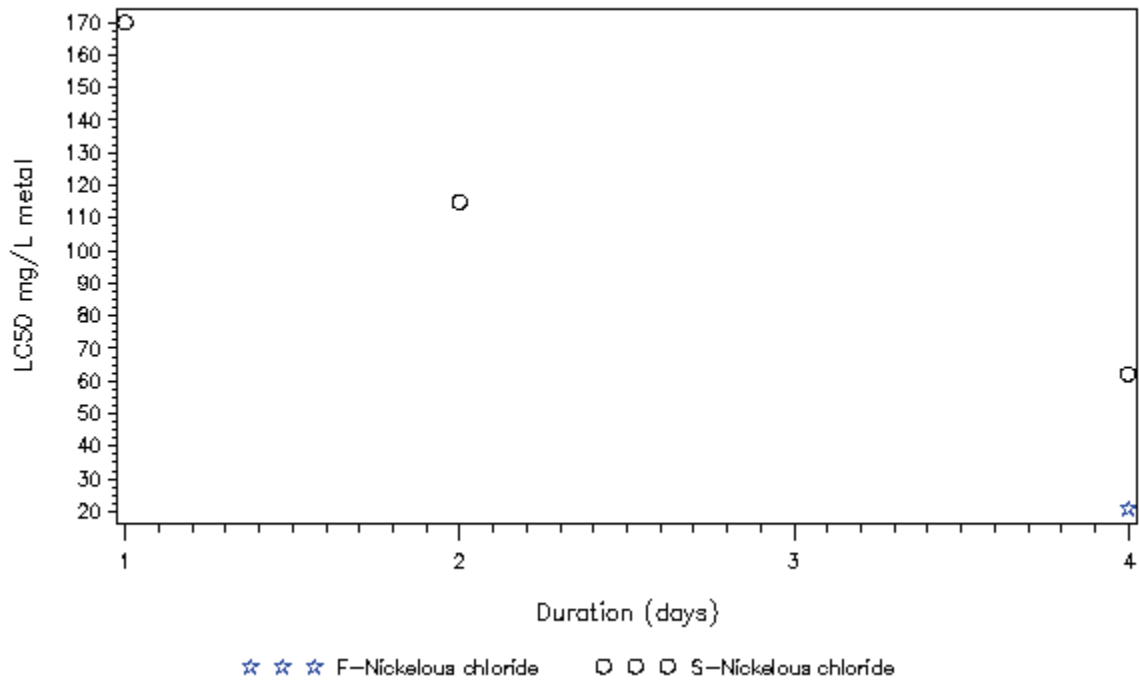


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis gibbosus exposed to Nickel at T>15C in soft water

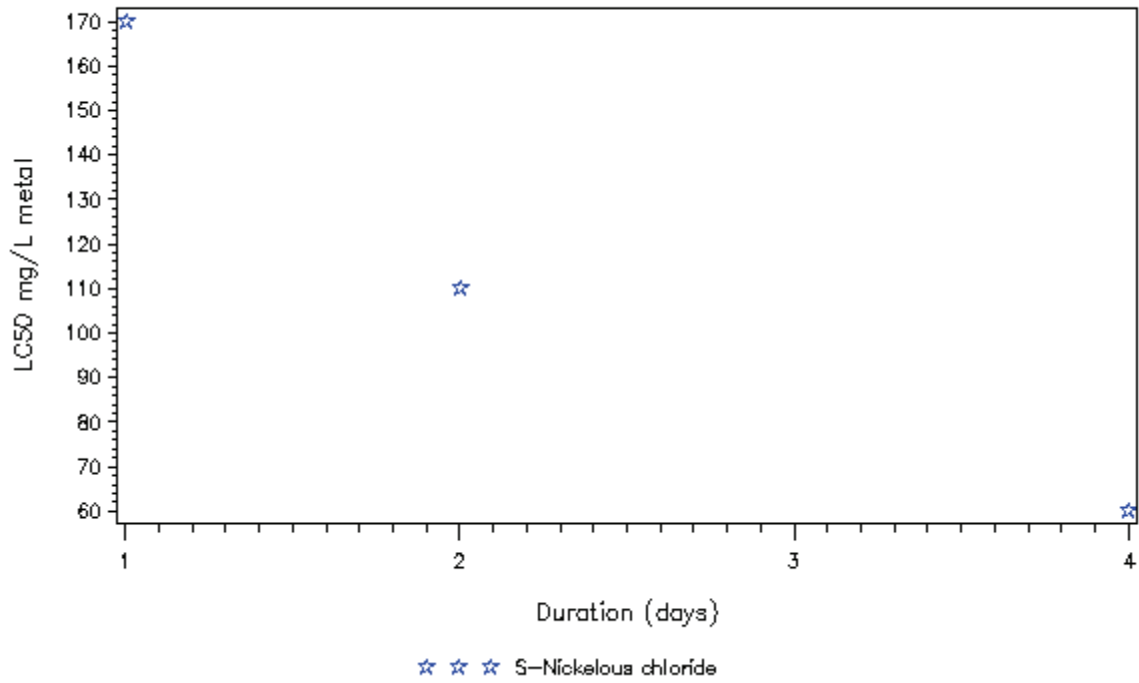


Lepomis macrochirus exposed to Nickel at T>15C in soft water

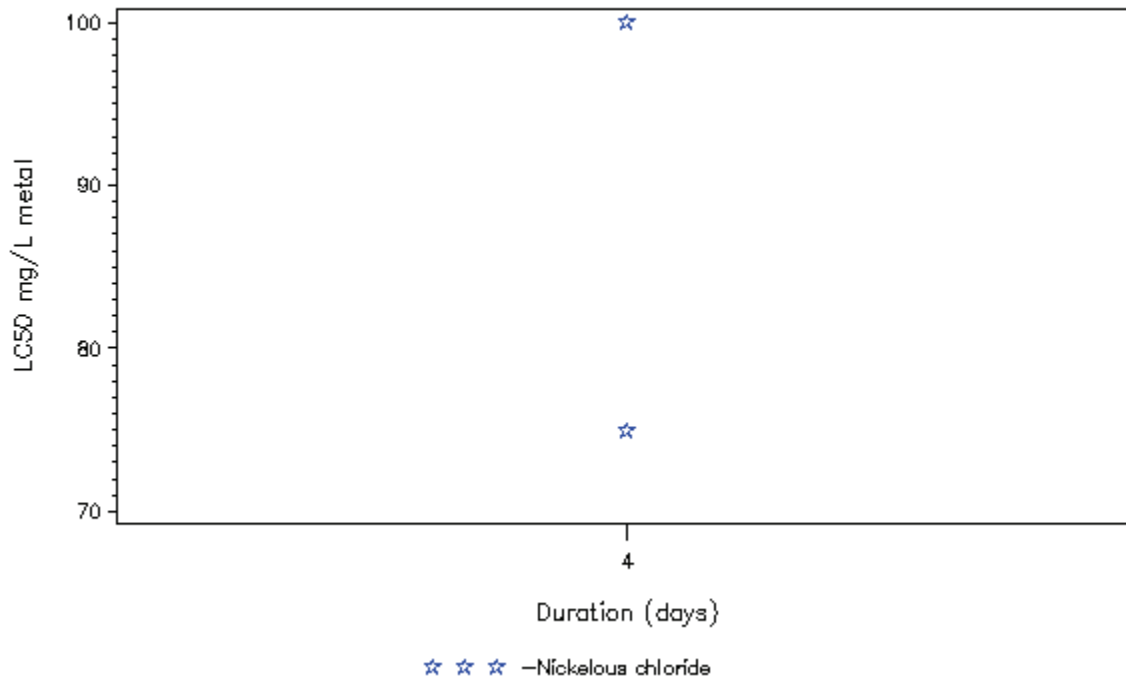


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis macrochirus exposed to Nickel at T>15C in very hard water

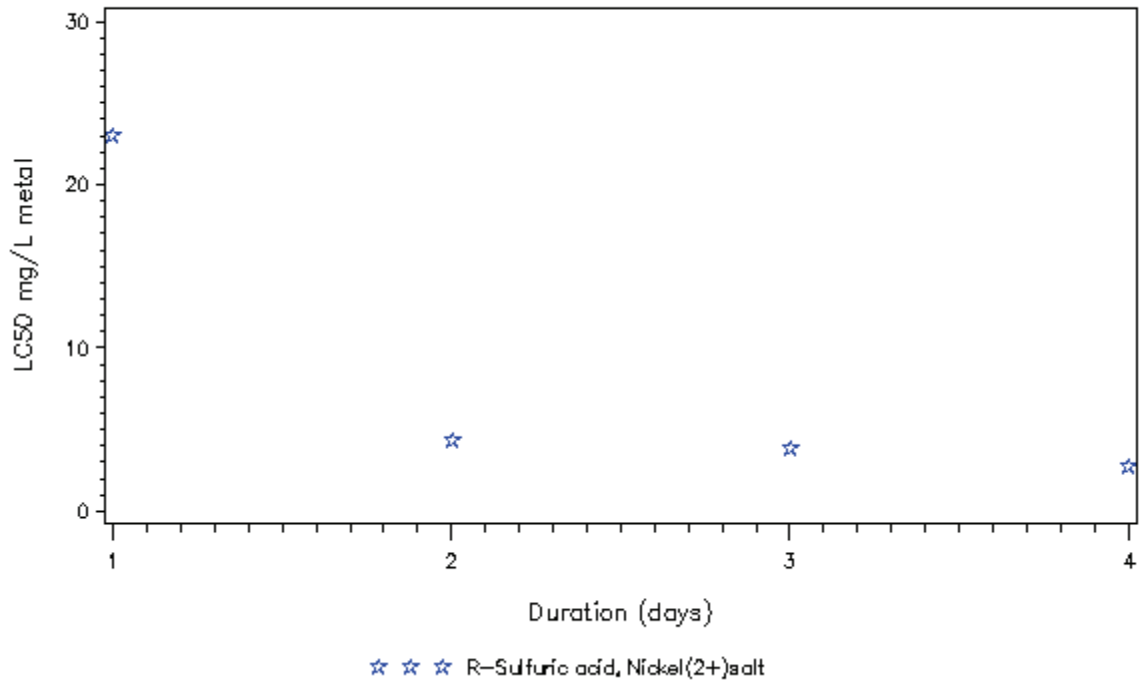


Lumbriculus variegatus exposed to Nickel at T>15C in very hard water

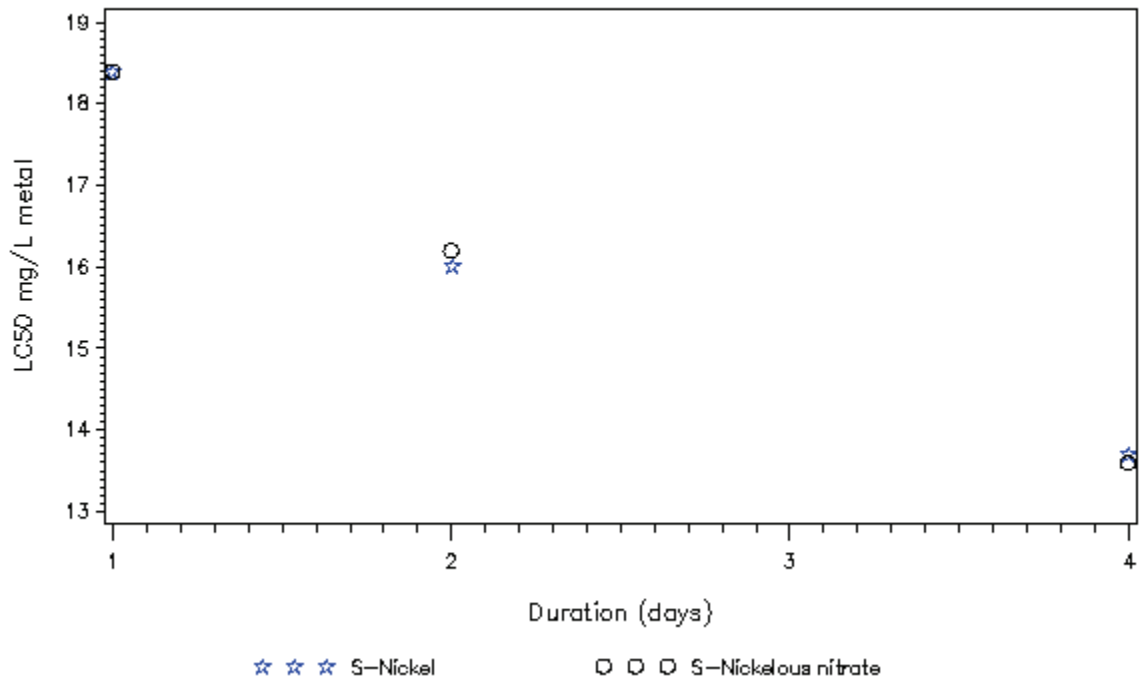


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lymnaea acuminata exposed to Nickel at T>15C in very hard water

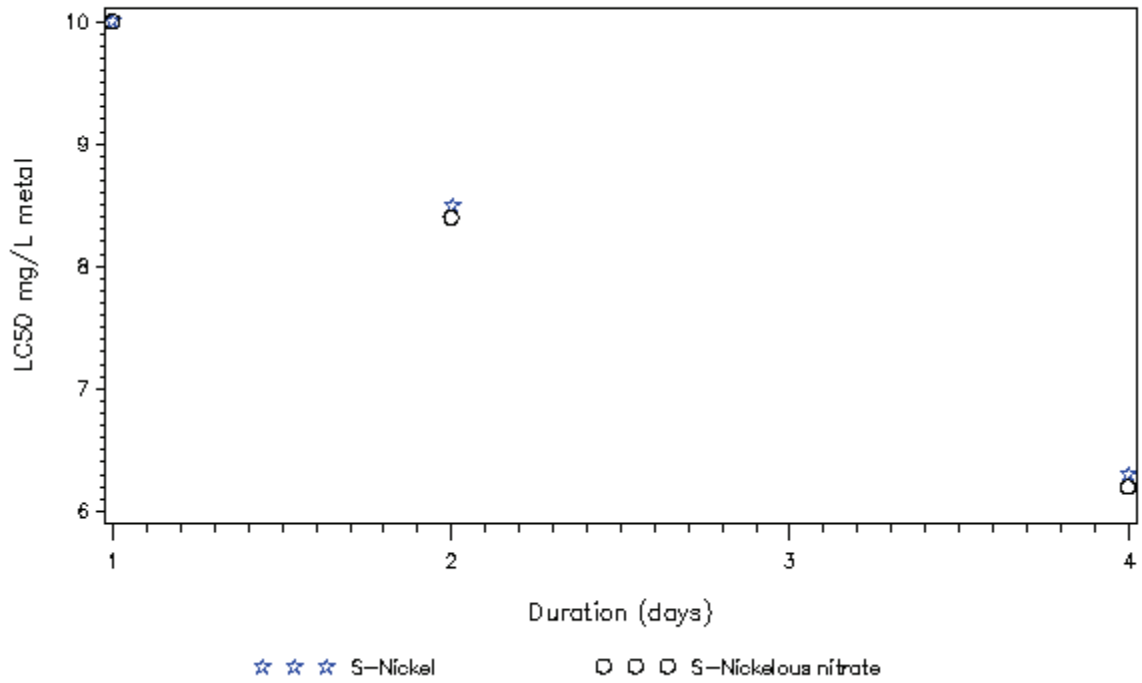


Morone americana exposed to Nickel at T>15C in soft water

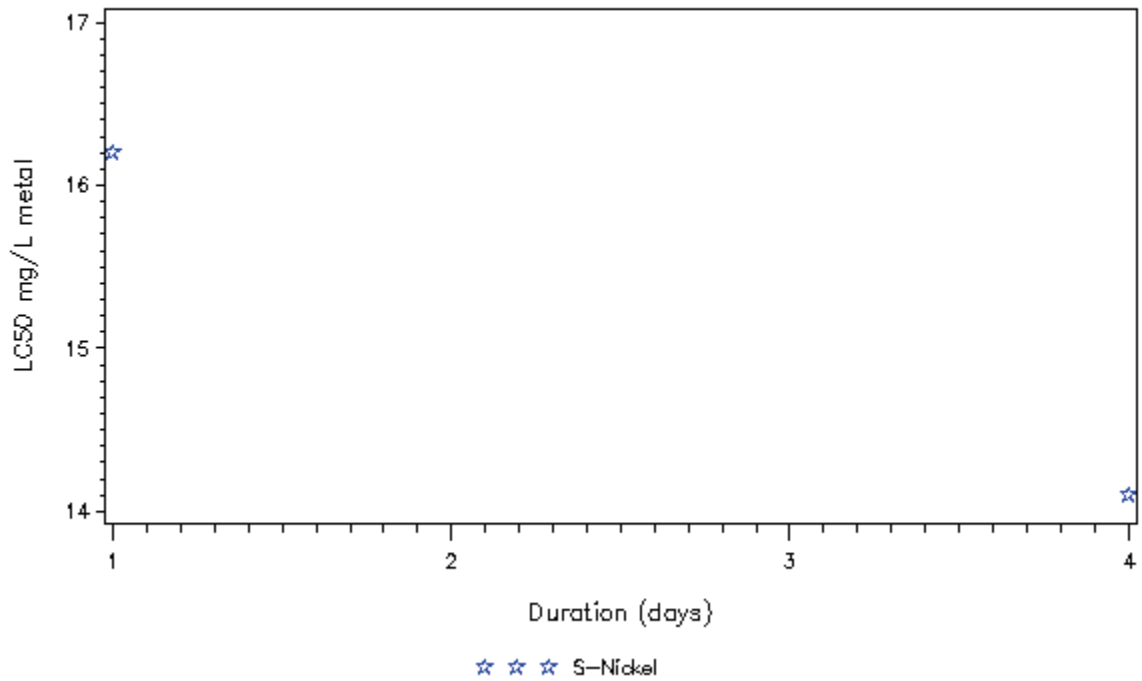


S – Static Test, F – Flowthrough Test, R –Renewal Test

Morone saxatilis exposed to Nickel at T>15C in soft water

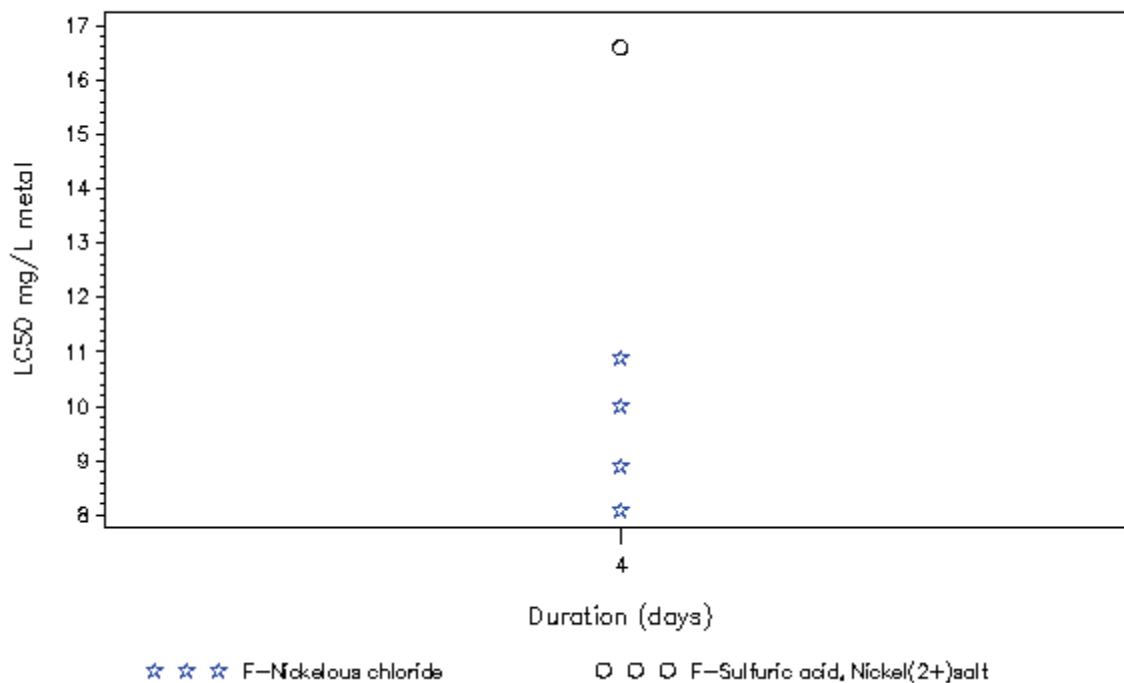


Nais exposed to Nickel at T>15C in soft water

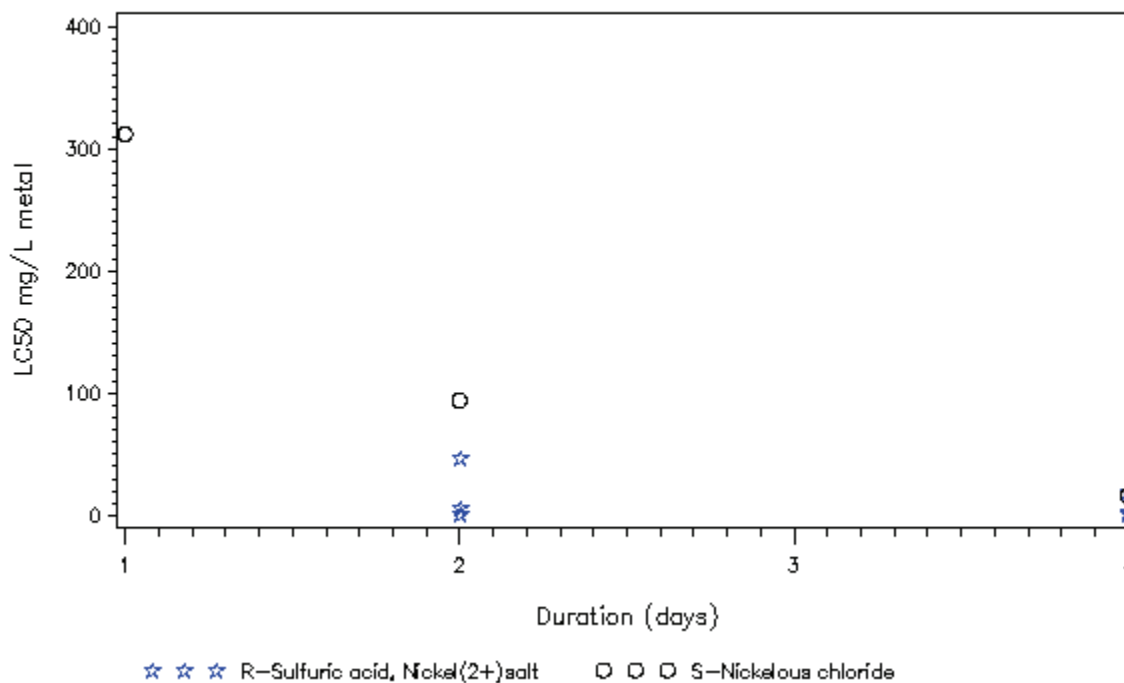


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Nickel at T<=15C in soft water

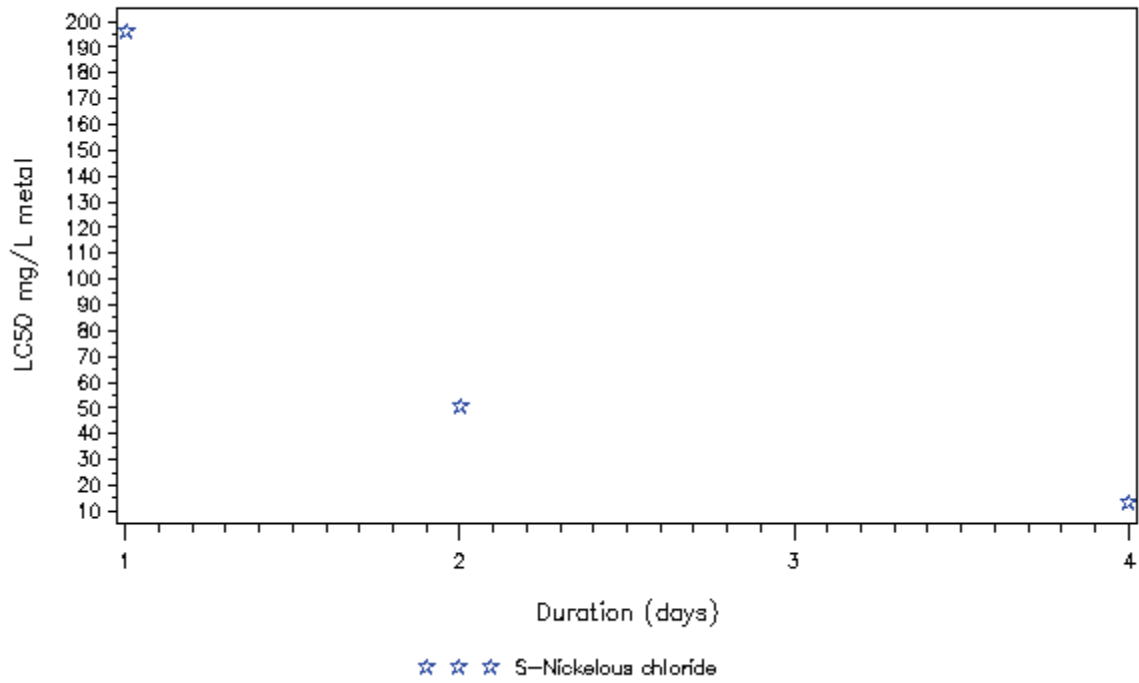


Oncorhynchus mykiss exposed to Nickel at T<=15C in very hard water

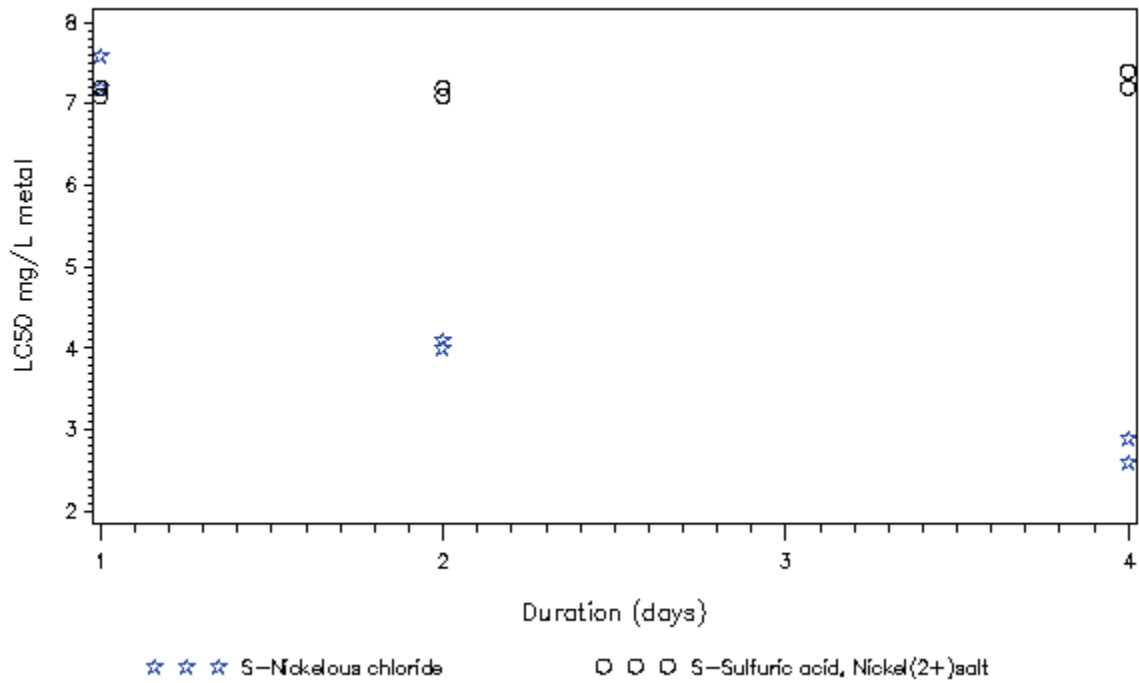


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Nickel at T>15C in soft water

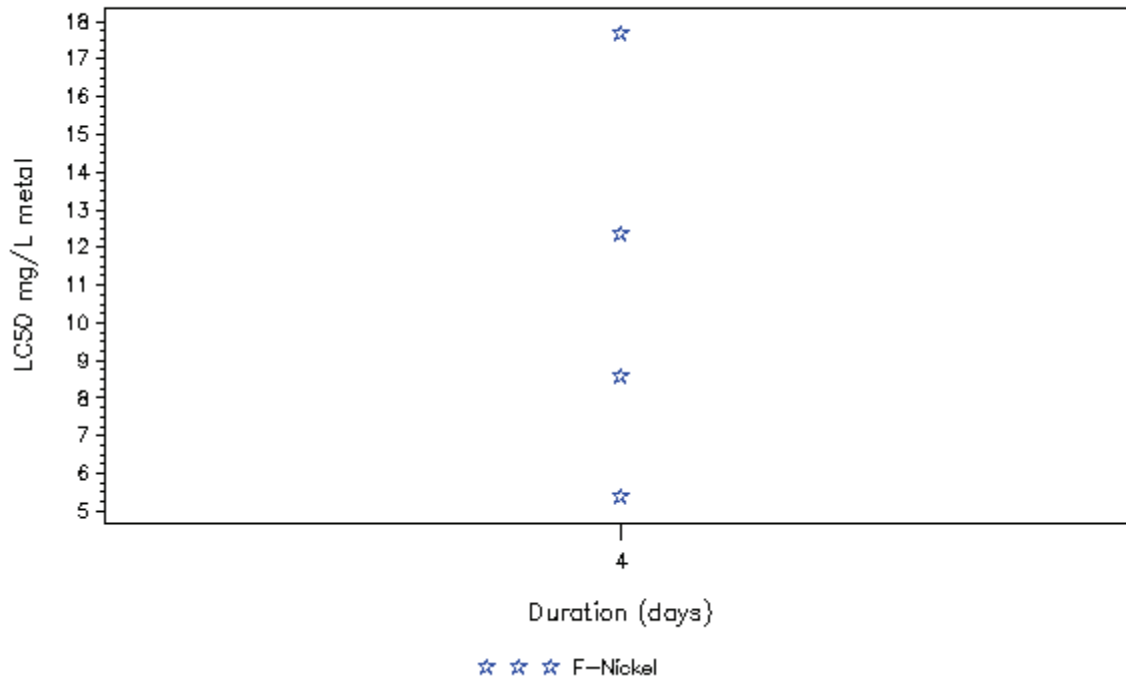


Philodina acuticornis exposed to Nickel at T>15C in soft water

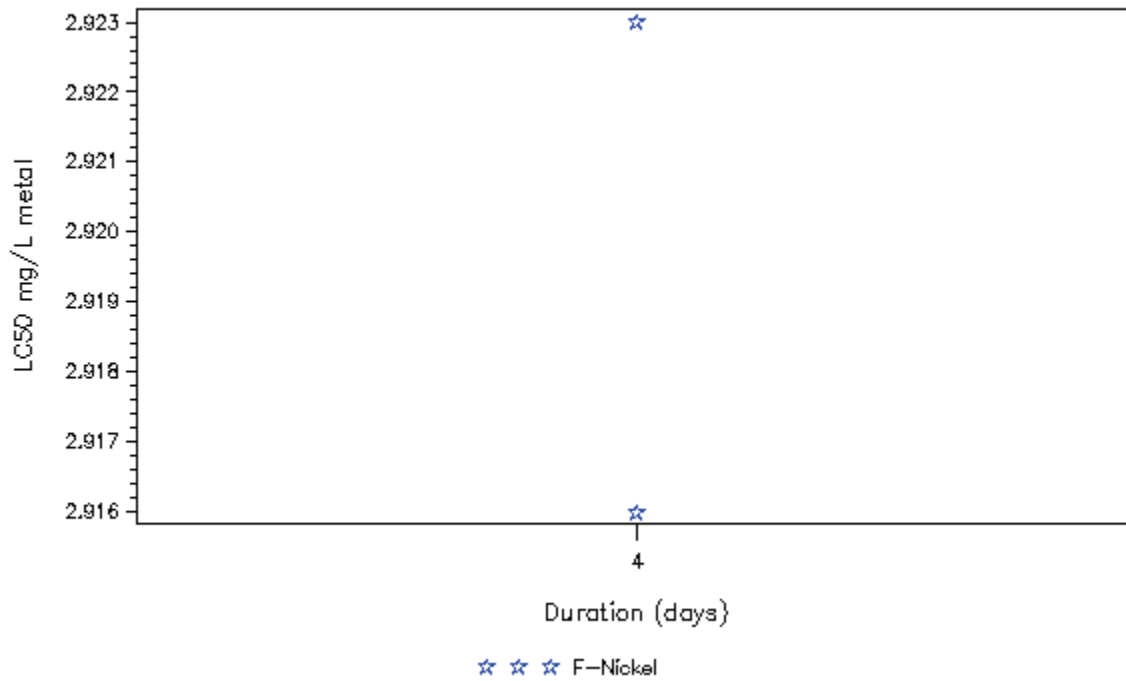


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Nickel at T>15C in moderate water

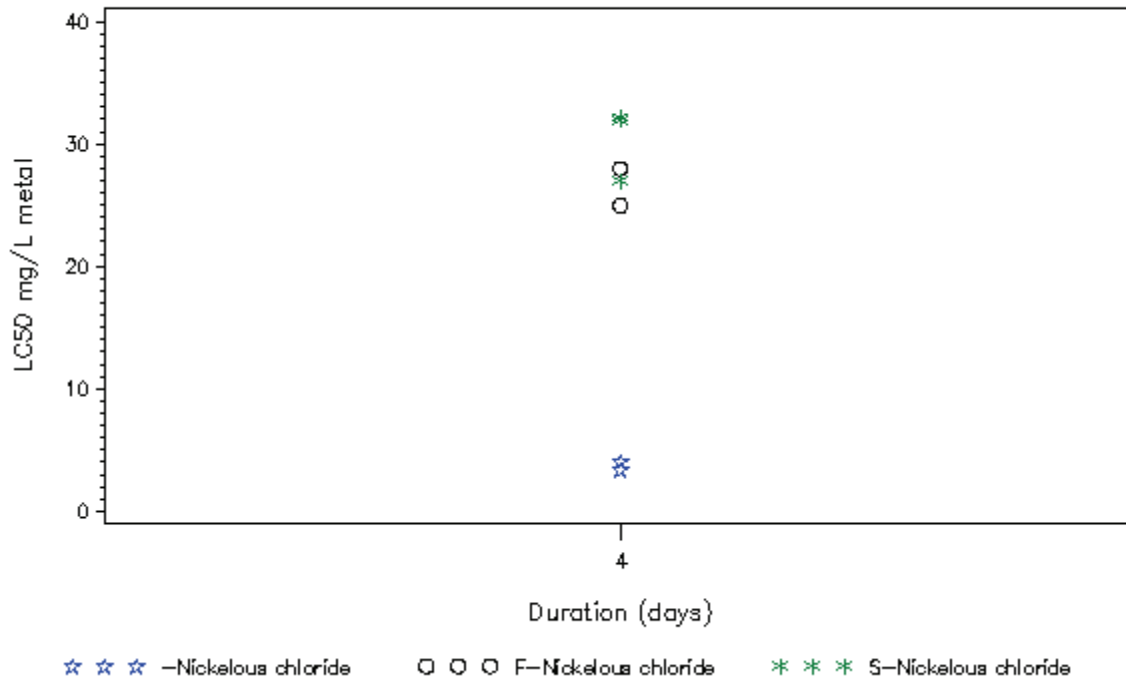


Pimephales promelas exposed to Nickel at T>15C in soft water

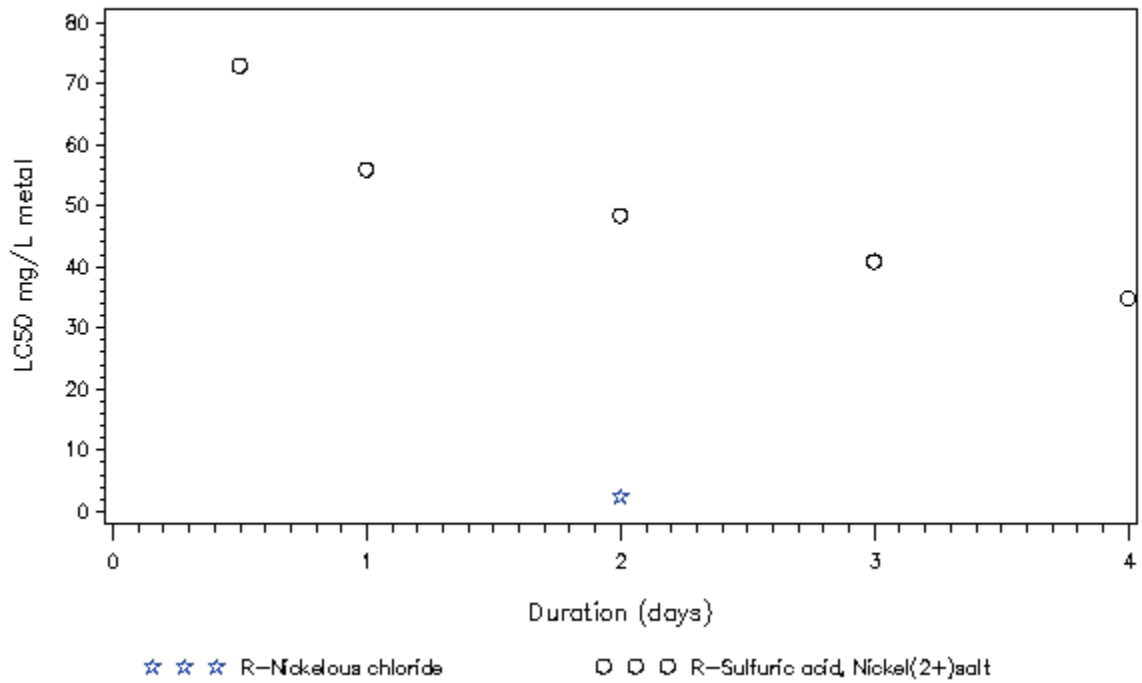


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Nickel at T>15C in very hard water

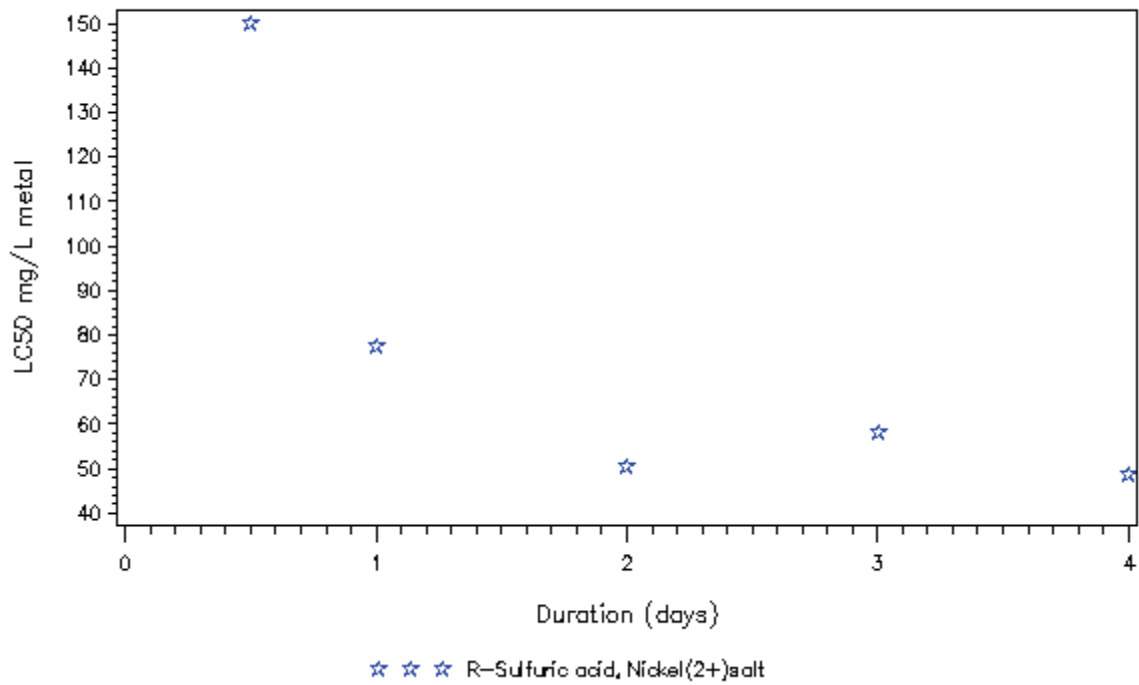


Poecilia reticulata exposed to Nickel at T>15C in very hard water

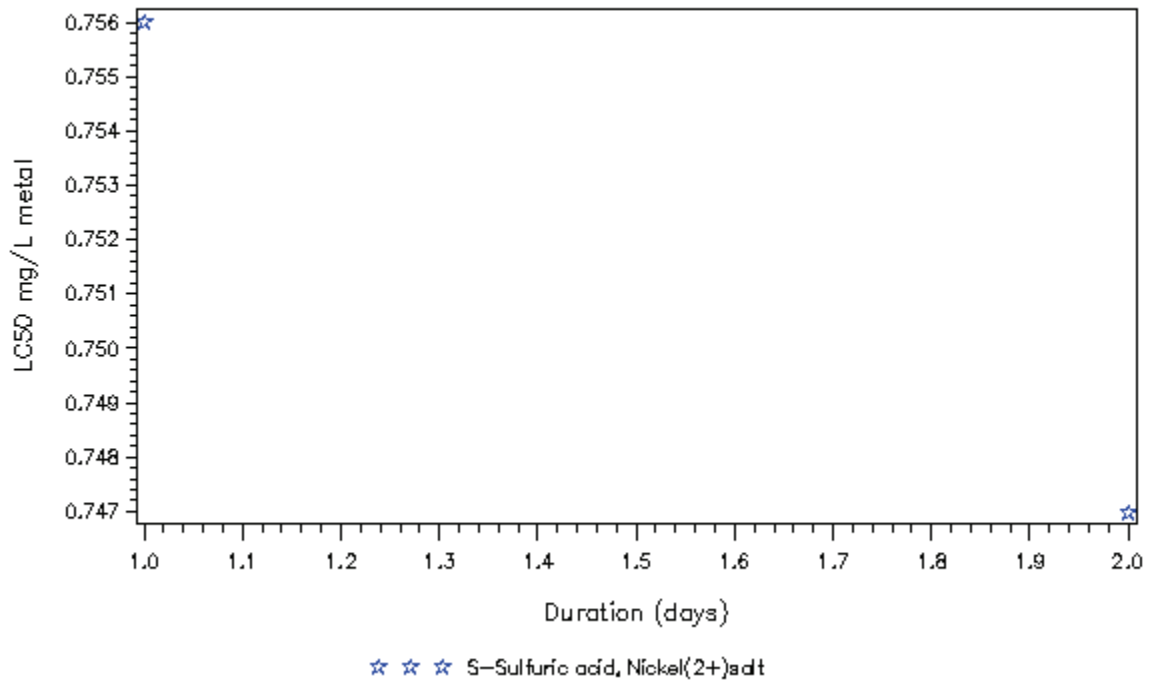


S – Static Test, F – Flowthrough Test, R –Renewal Test

Rasbora daniconius neilgeriens exposed to Nickel at T>15C in very hard water

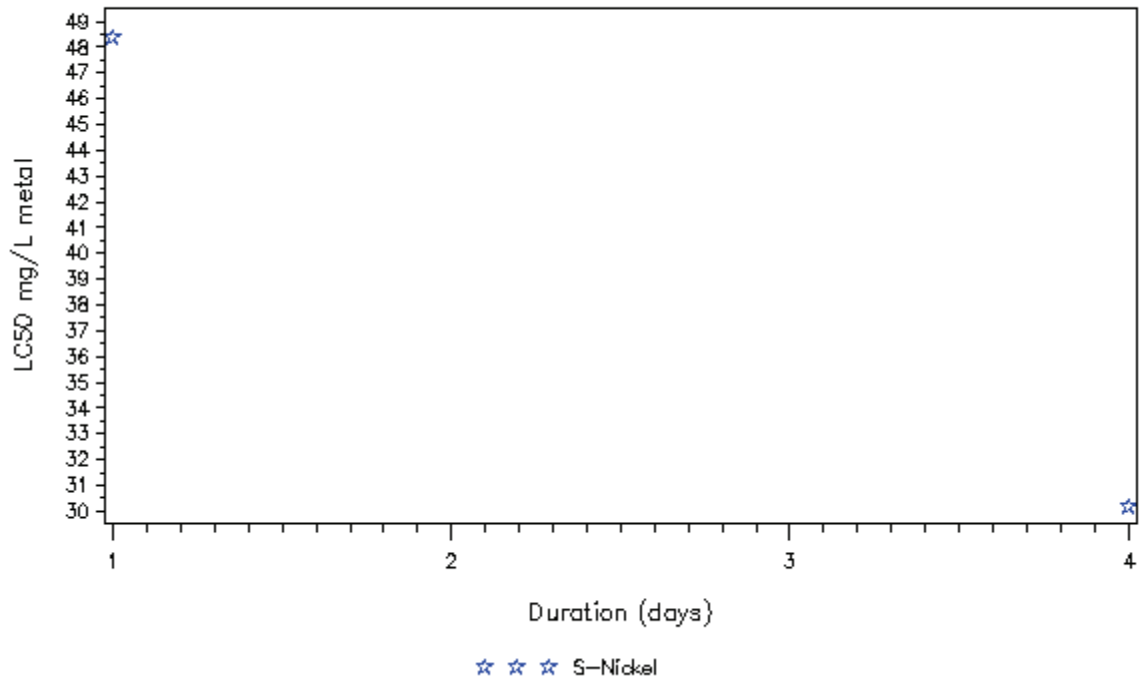


Spirostomum ambiguum exposed to Nickel at T>15C in very soft water

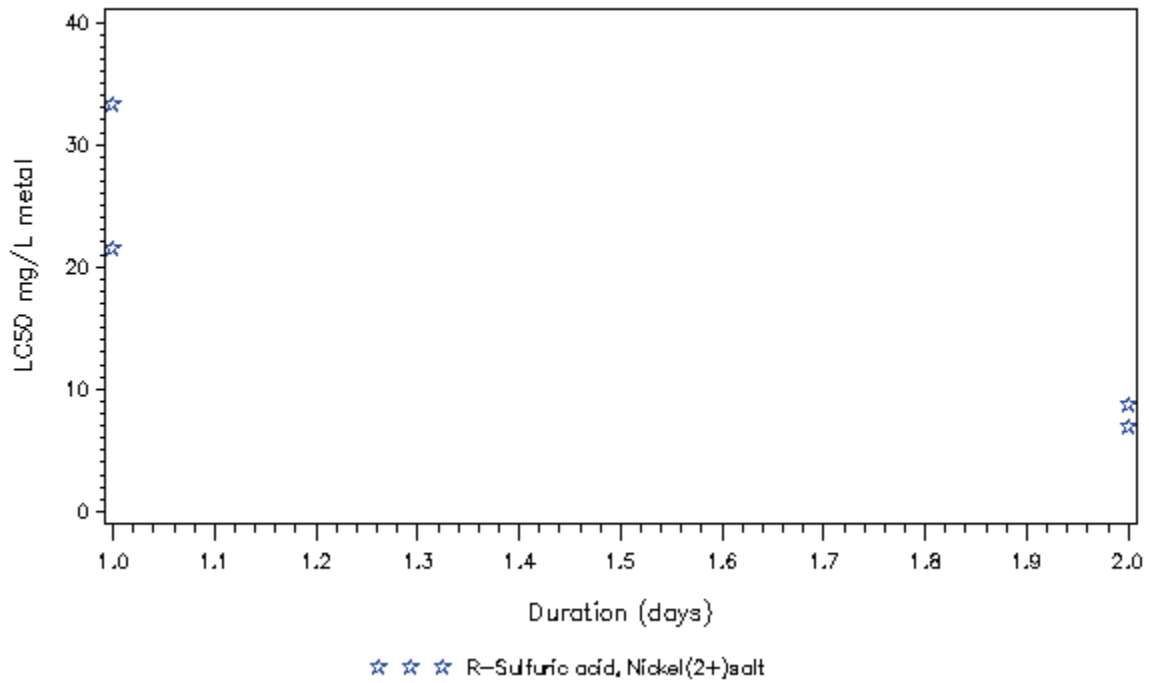


S – Static Test, F – Flowthrough Test, R –Renewal Test

Trichoptera exposed to Nickel at T>15C in soft water

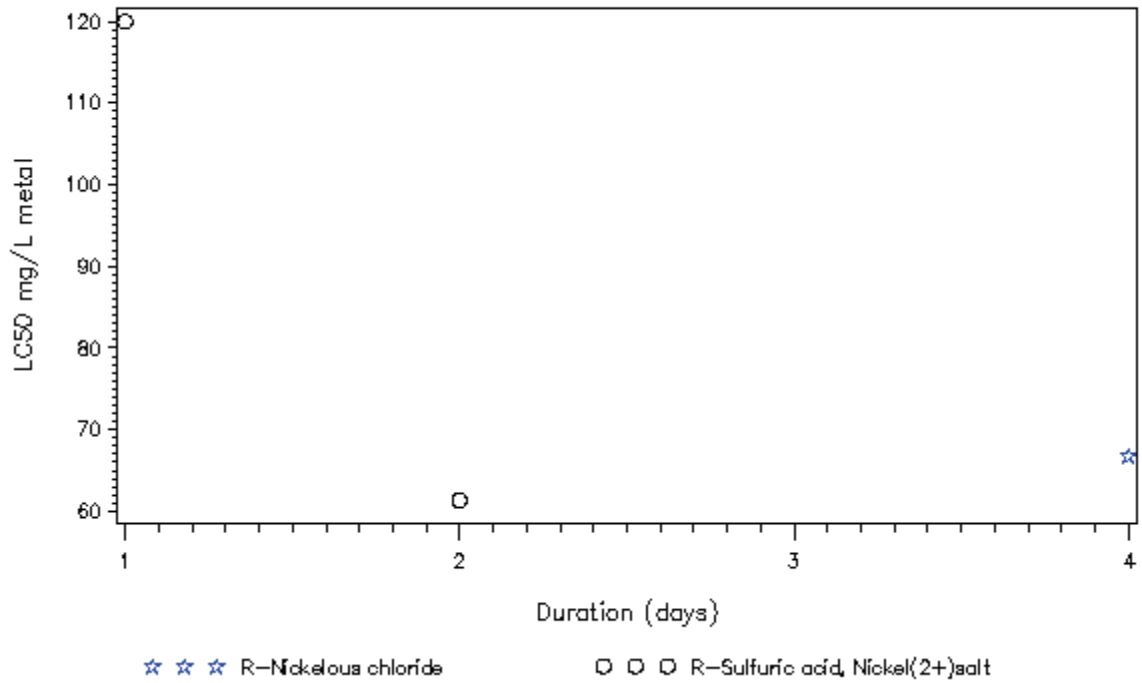


Tubifex tubifex exposed to Nickel at T>15C in soft water

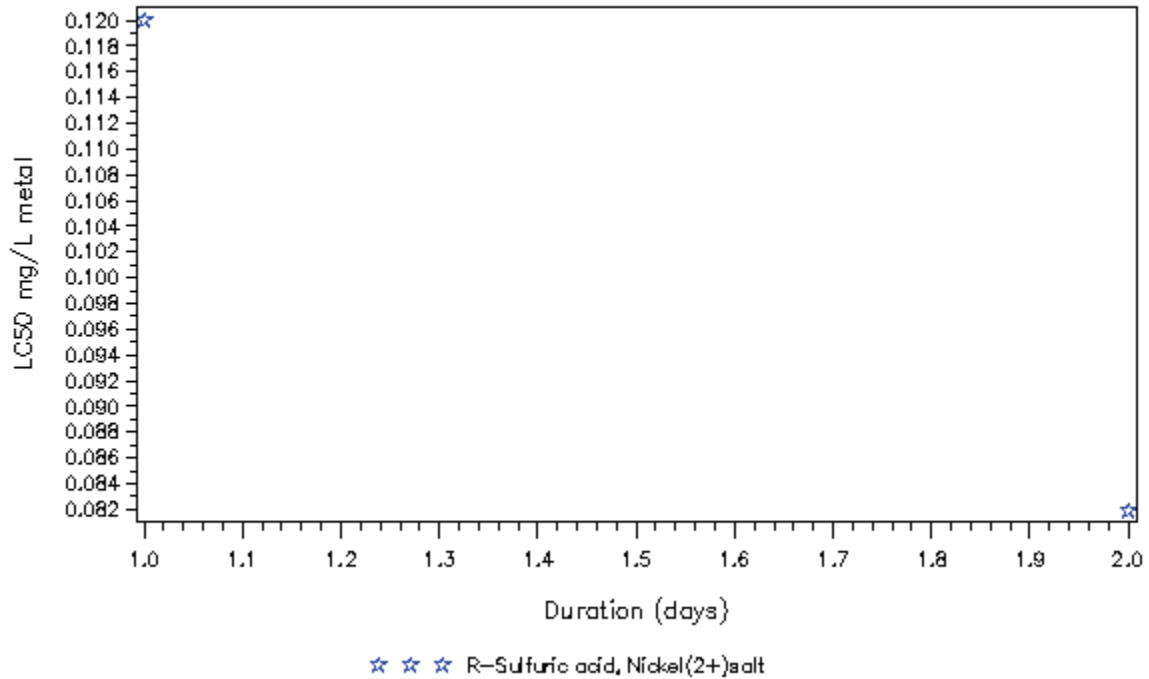


S – Static Test, F – Flowthrough Test, R –Renewal Test

Tubifex tubifex exposed to Nickel at T>15C in very hard water

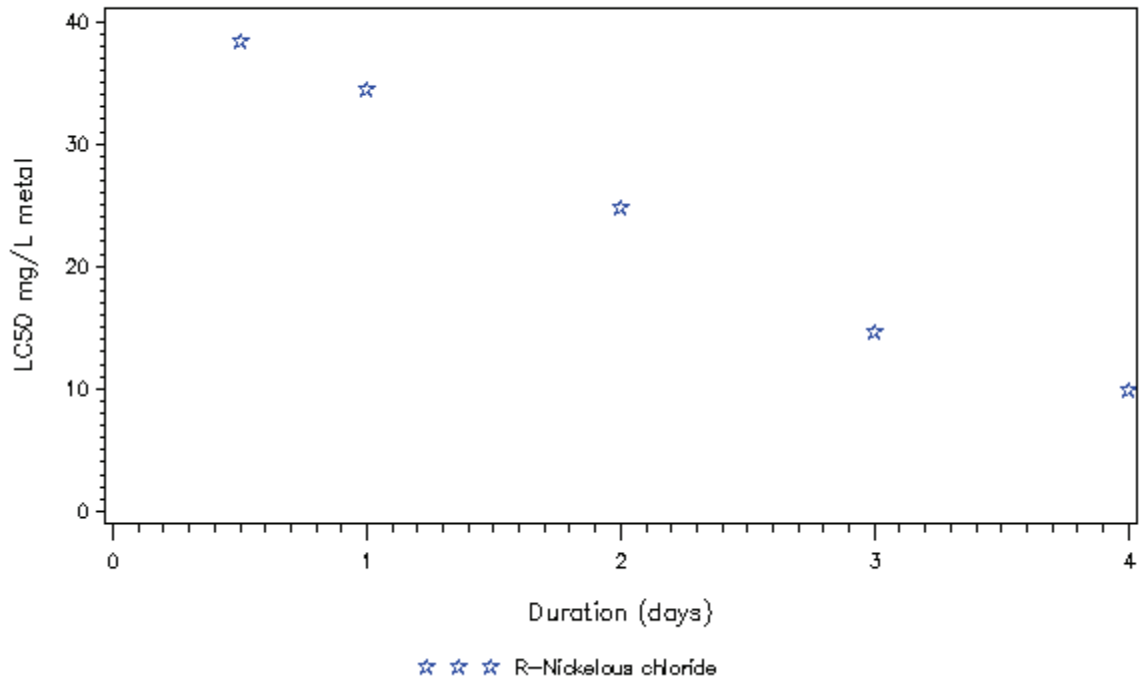


Tubifex tubifex exposed to Nickel at T>15C in very soft water

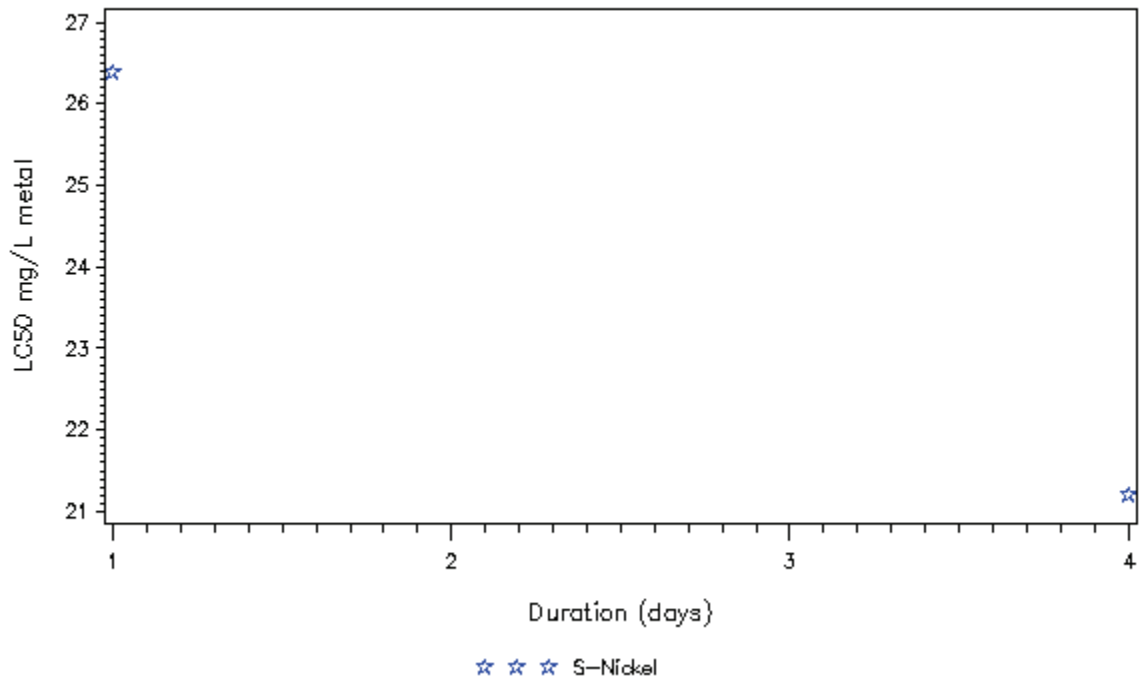


S – Static Test, F – Flowthrough Test, R –Renewal Test

Viviparus bengalensis exposed to Nickel at T>15C in hard water

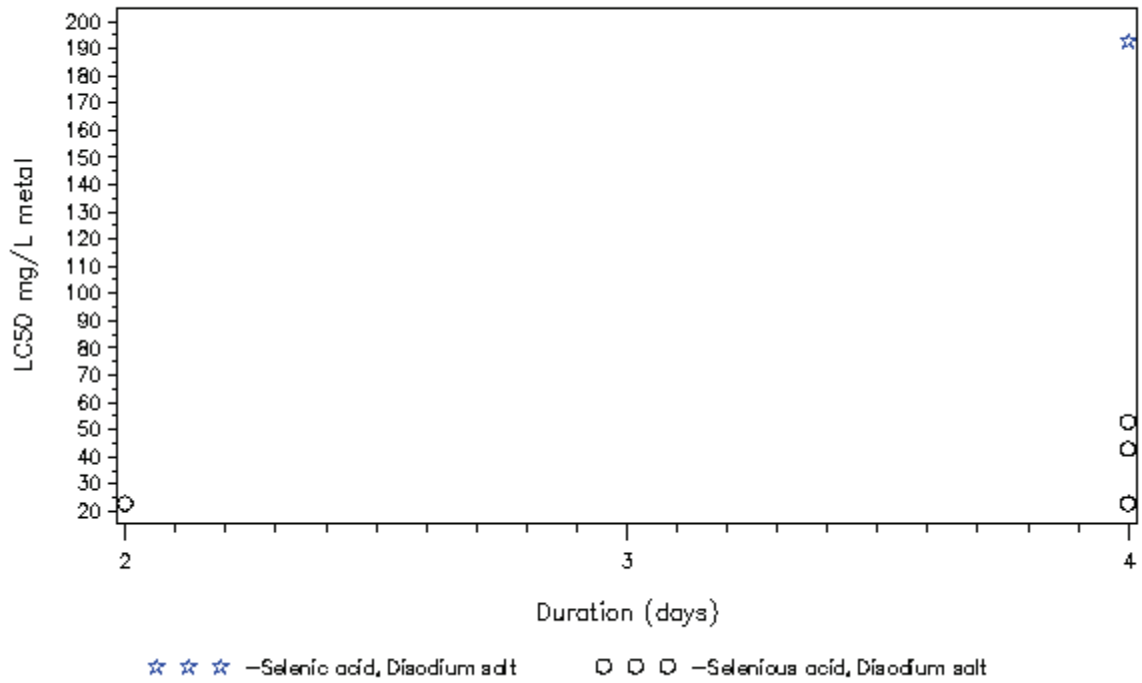


Zygoptera exposed to Nickel at T>15C in soft water

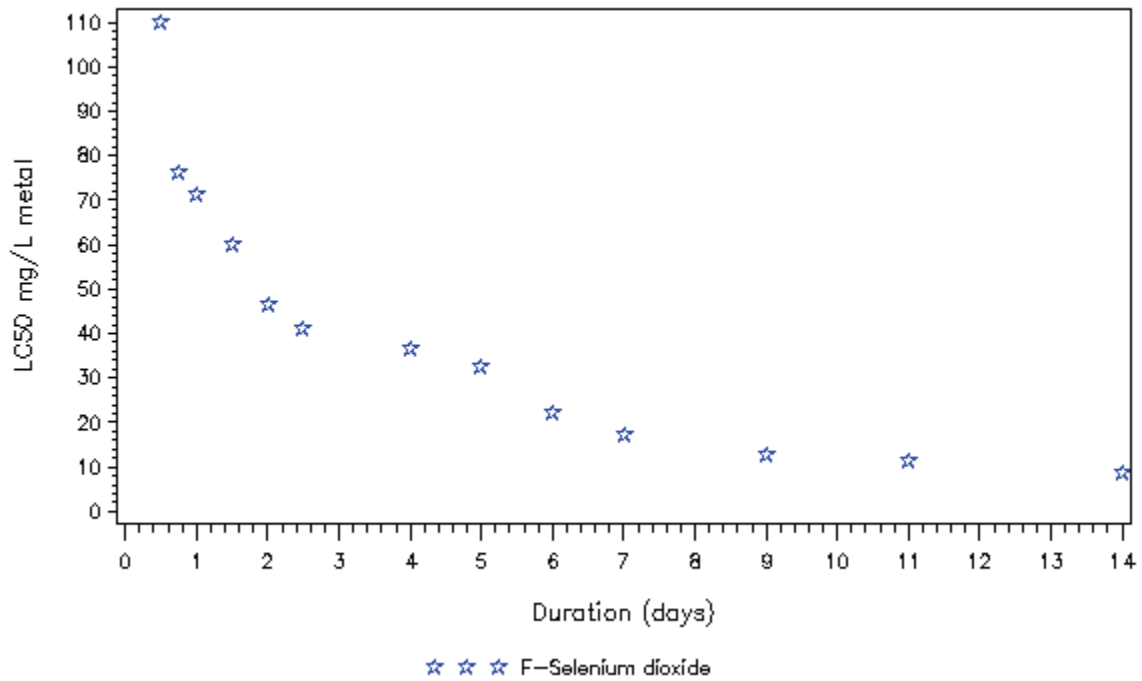


S – Static Test, F – Flowthrough Test, R –Renewal Test

Aplexa hypnorum exposed to Selenium at T>15C in soft water

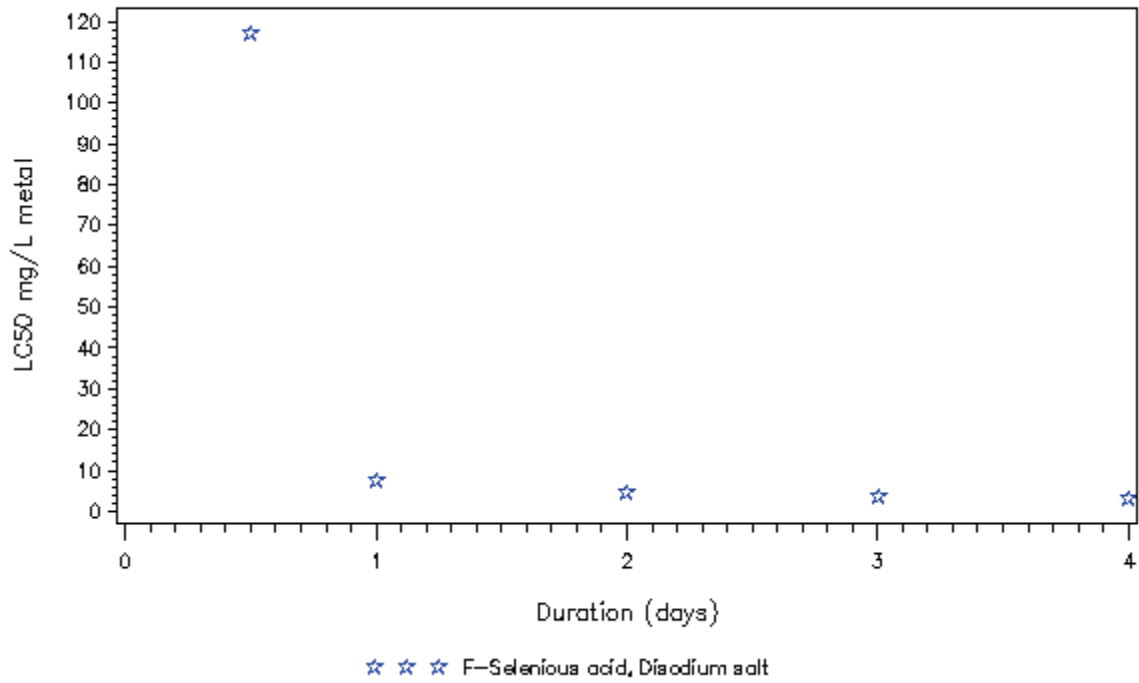


Carassius auratus exposed to Selenium at T>15C in hard water

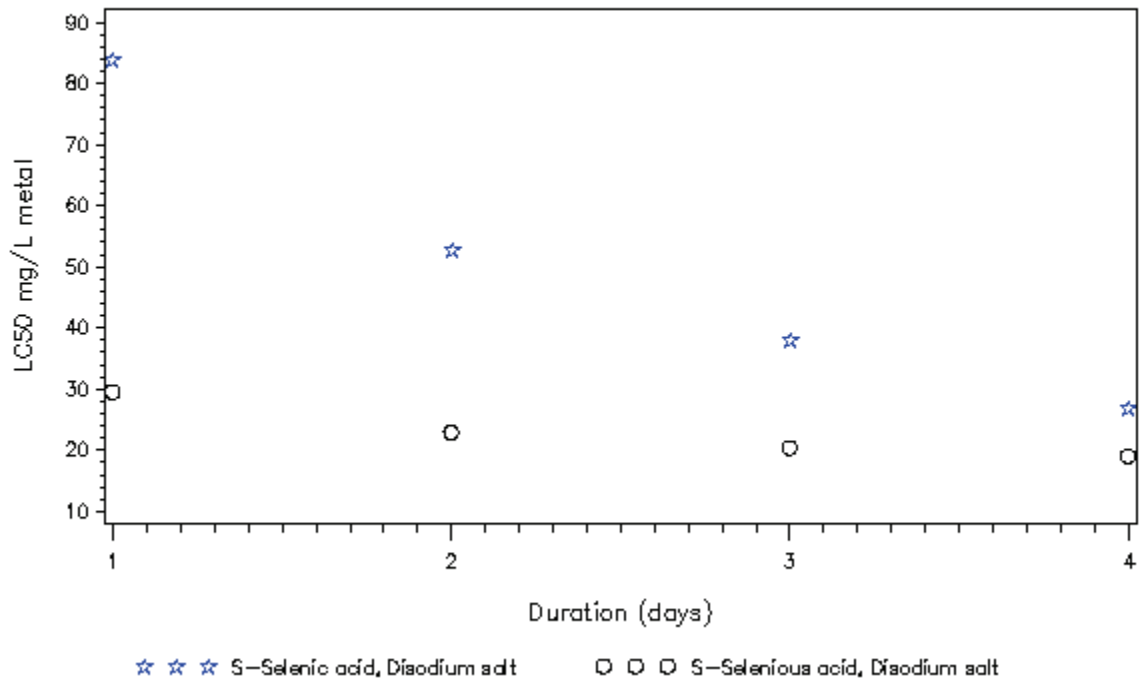


S – Static Test, F – Flowthrough Test, R –Renewal Test

Catostomus commersoni exposed to Selenium at T<=15C in very soft water

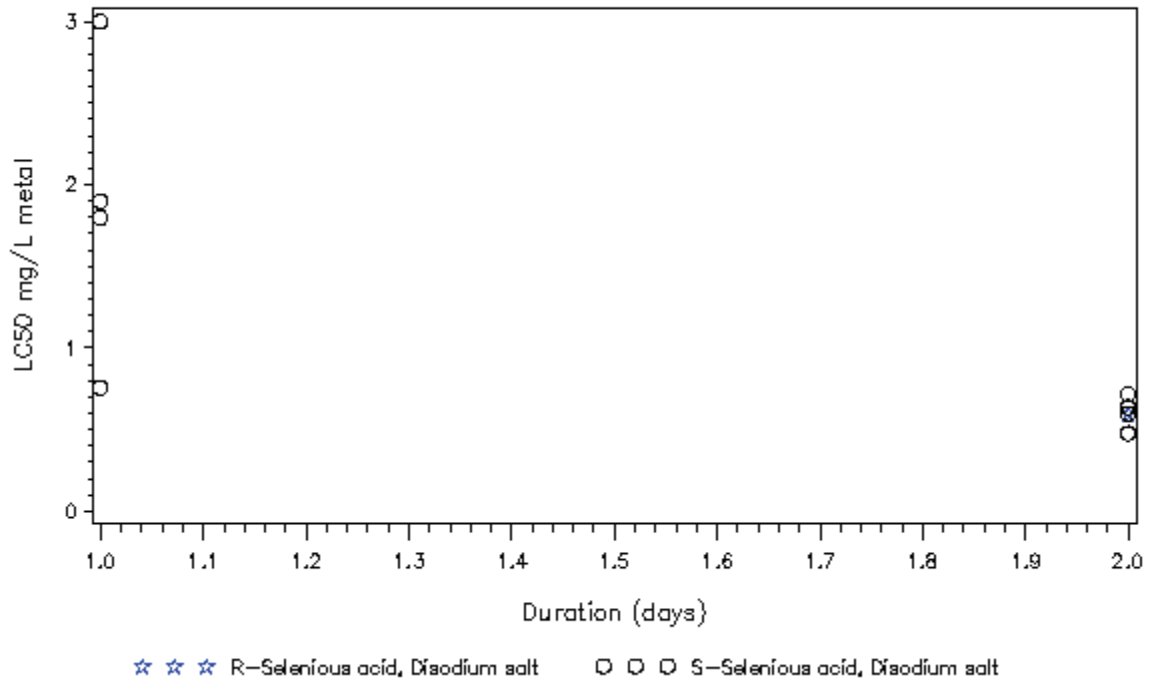


Catostomus latipinnis exposed to Selenium at T>15C in hard water

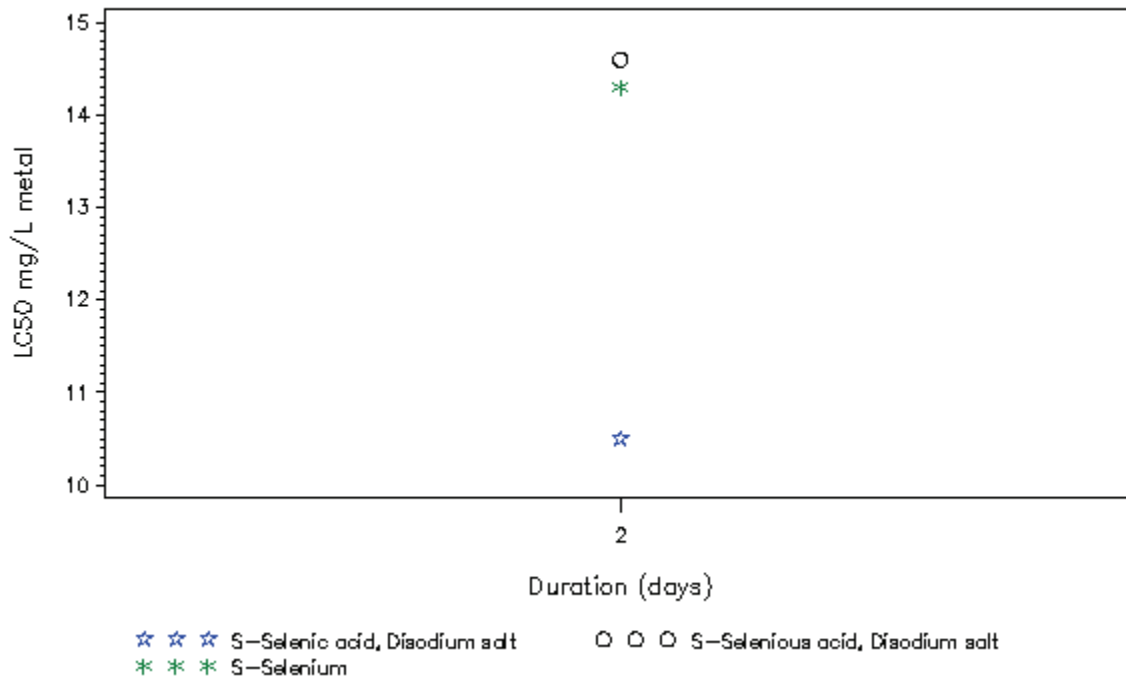


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ceriodaphnia affinis exposed to Selenium at T>15C in moderate water

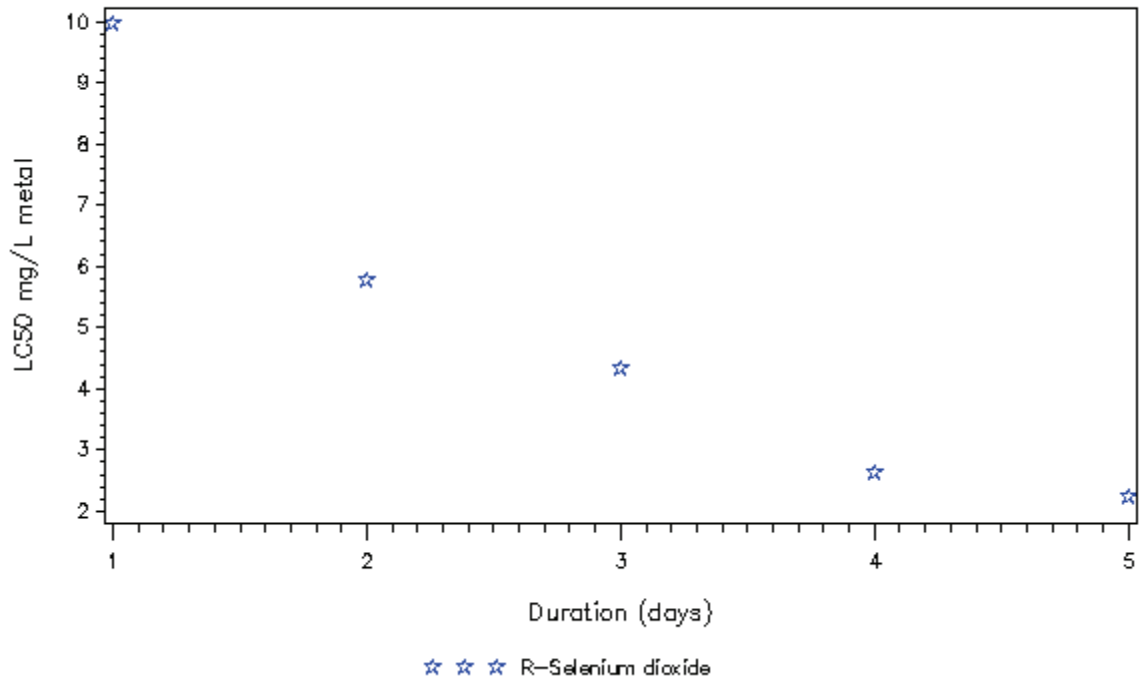


Chironomus thummi exposed to Selenium at T>15C in soft water

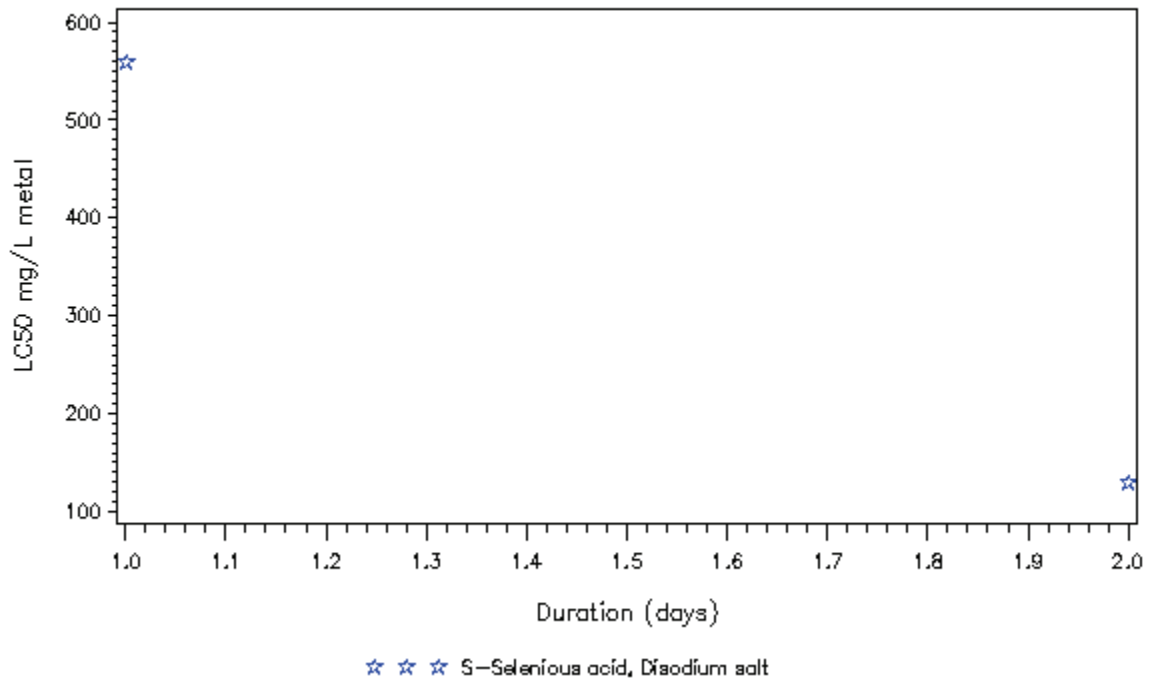


S – Static Test, F – Flowthrough Test, R –Renewal Test

Colisa fasciata exposed to Selenium at T>15C in moderate water

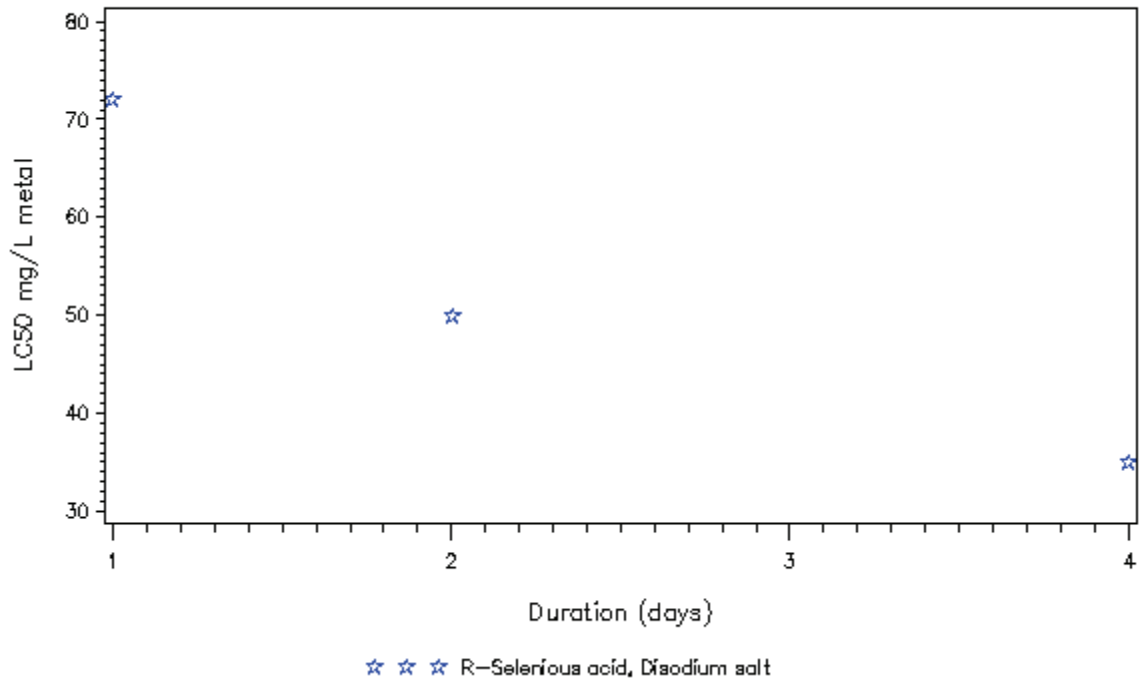


Cyclocypris exposed to Selenium at T>15C in moderate water

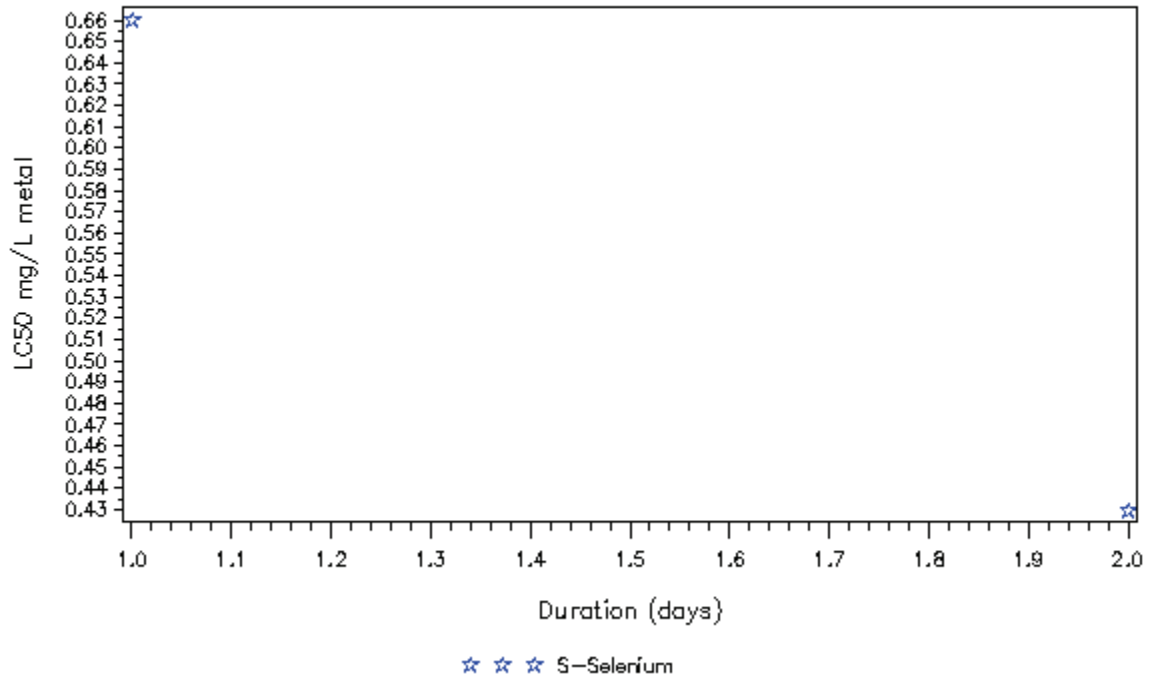


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Selenium at T>15C in NONE water

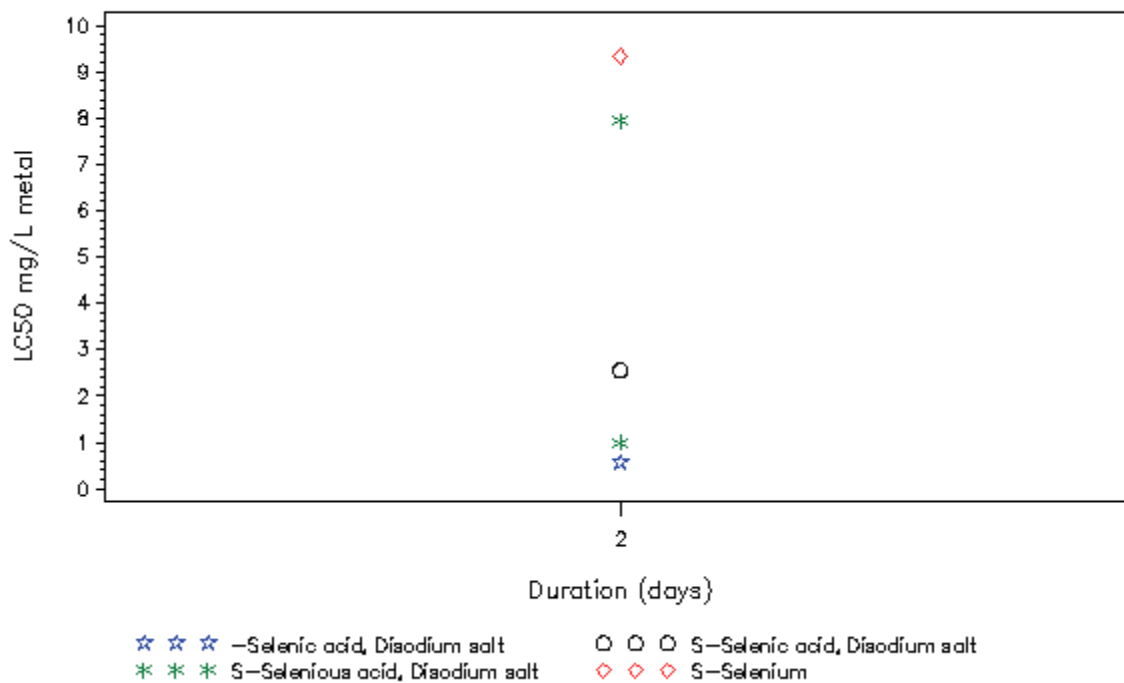


Daphnia magna exposed to Selenium at T>15C in hard water

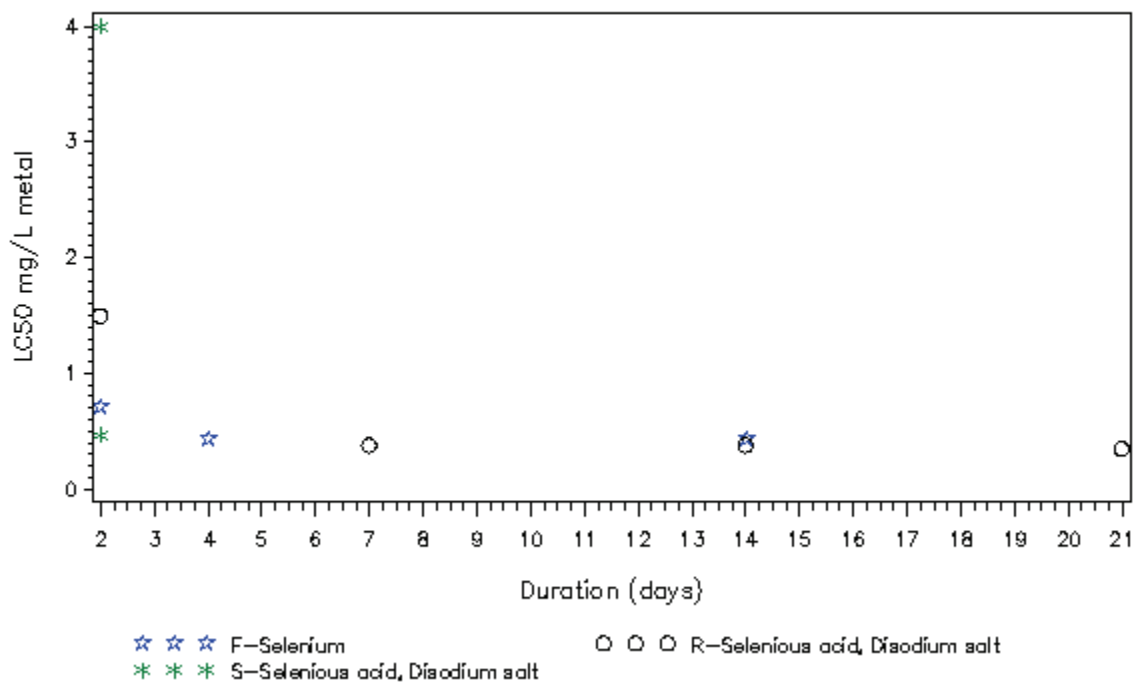


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Selenium at T>15C in soft water

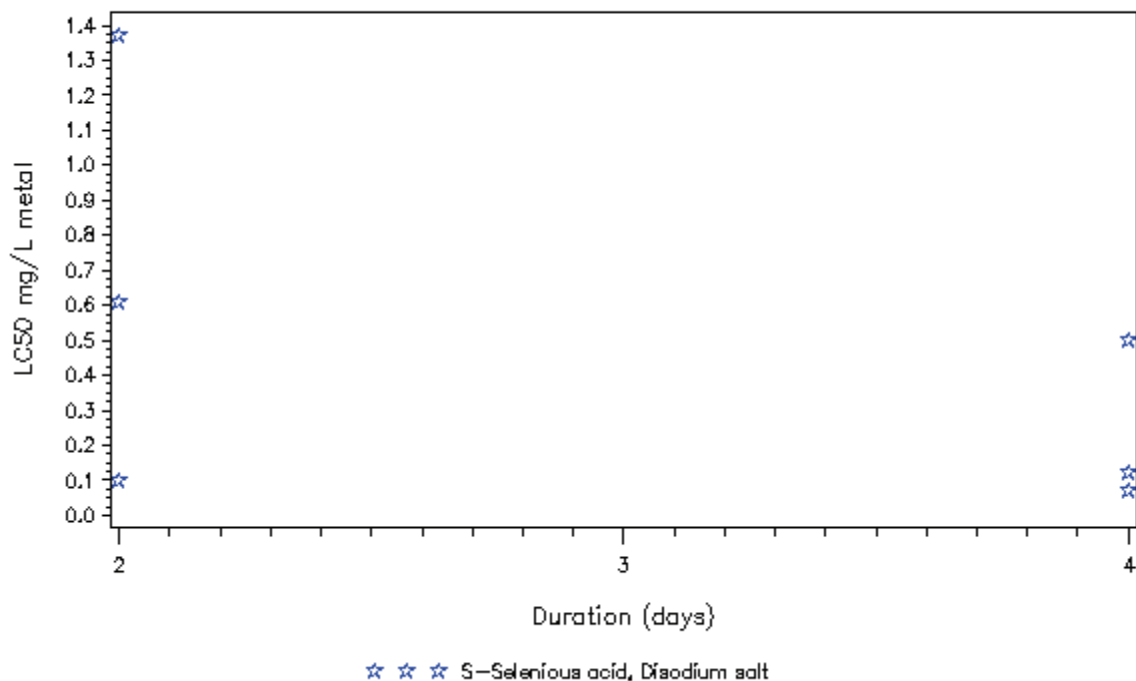


Daphnia magna exposed to Selenium at T>15C in very hard water

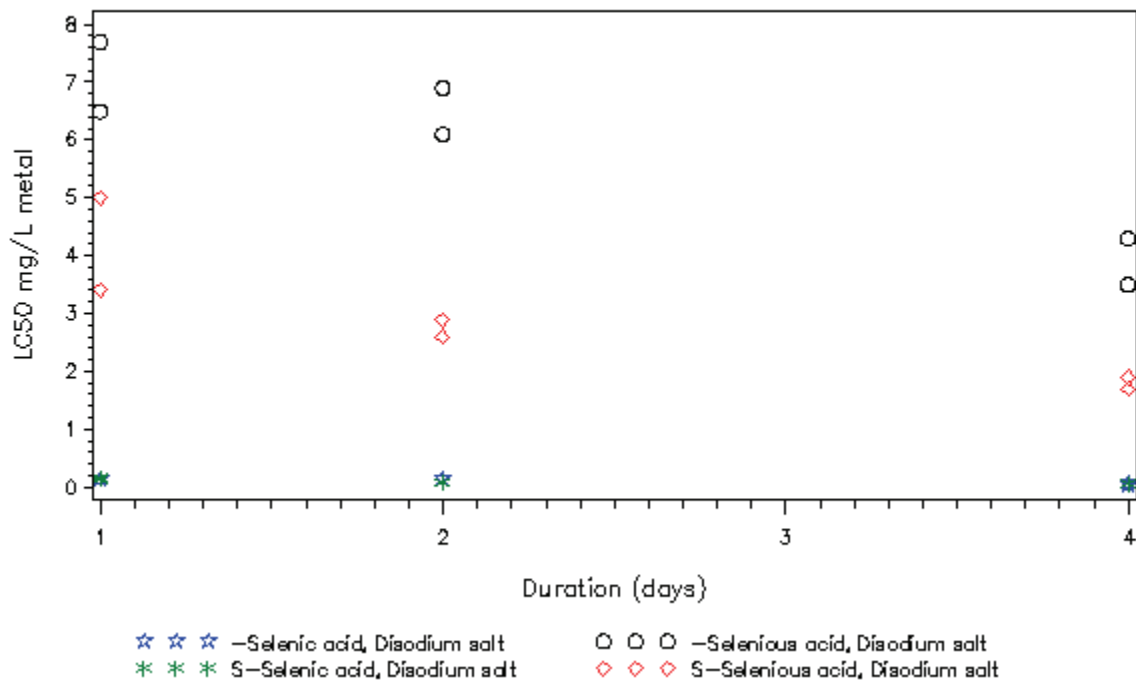


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia pulex exposed to Selenium at T>15C in NONE water

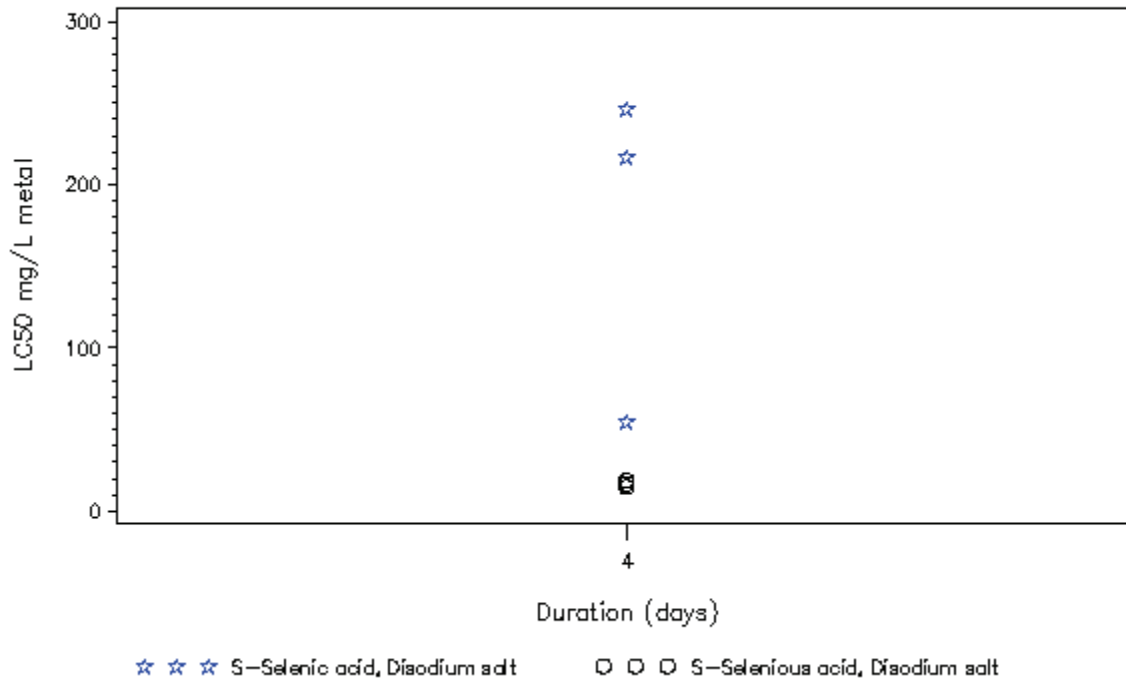


Gammarus pseudolimnaeus exposed to Selenium at T>15C in soft water

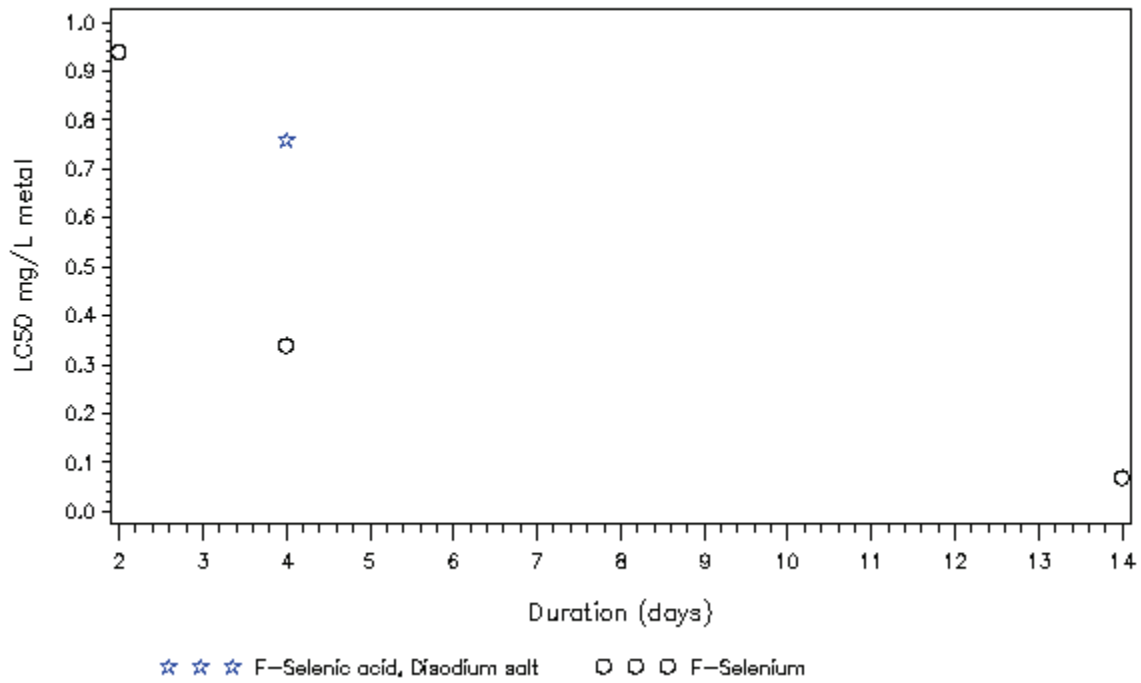


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gila elegans exposed to Selenium at T>15C in very hard water

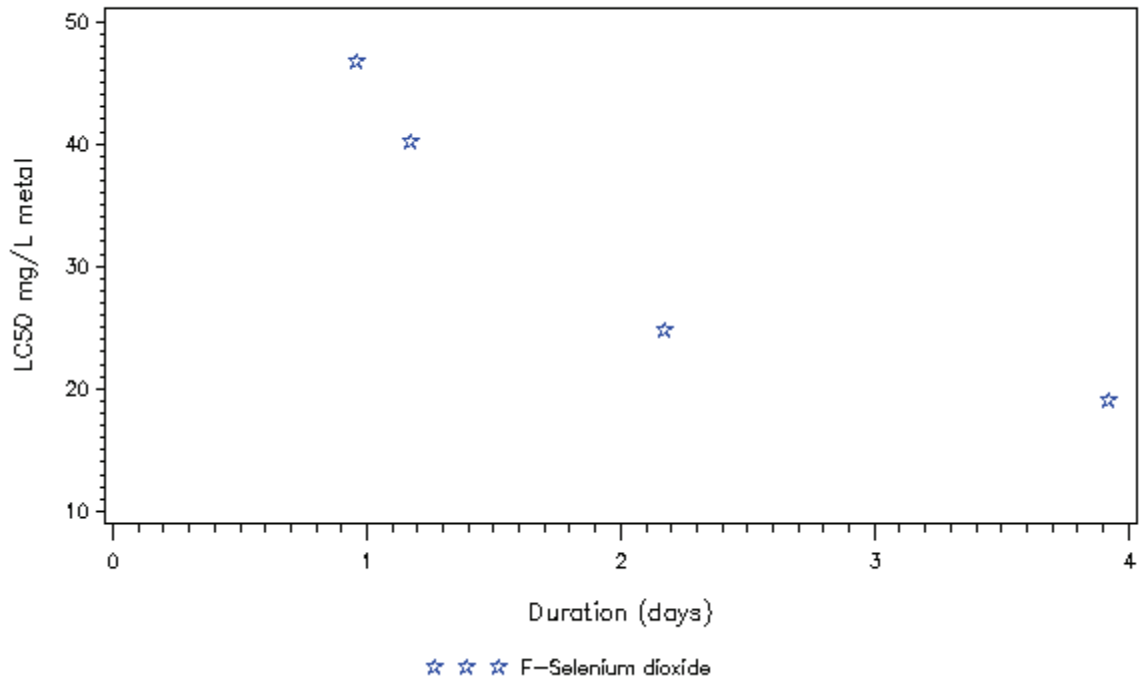


Hyalella azteca exposed to Selenium at T>15C in very hard water

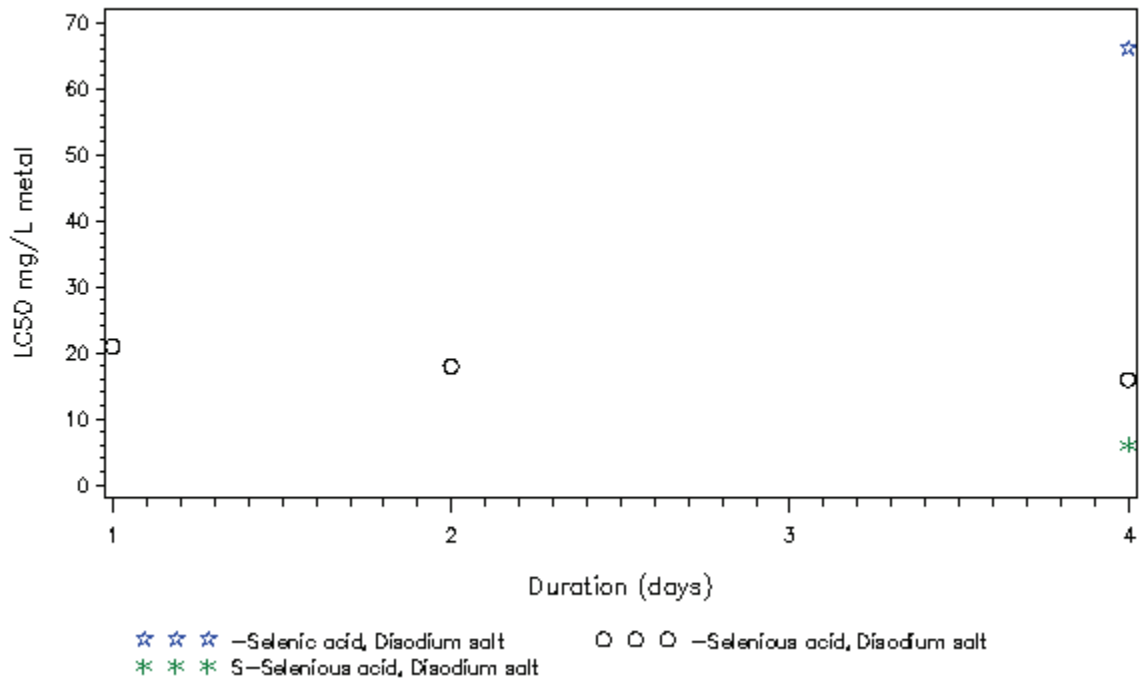


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ictalurus punctatus exposed to Selenium at T>15C in hard water

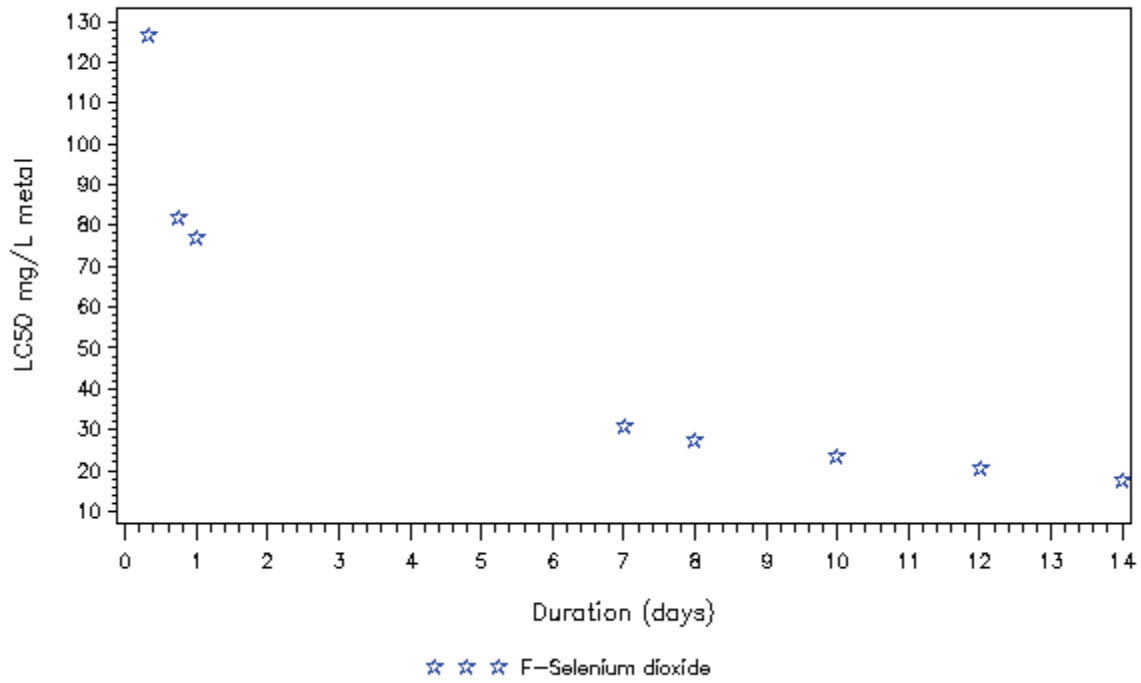


Ictalurus punctatus exposed to Selenium at T>15C in soft water

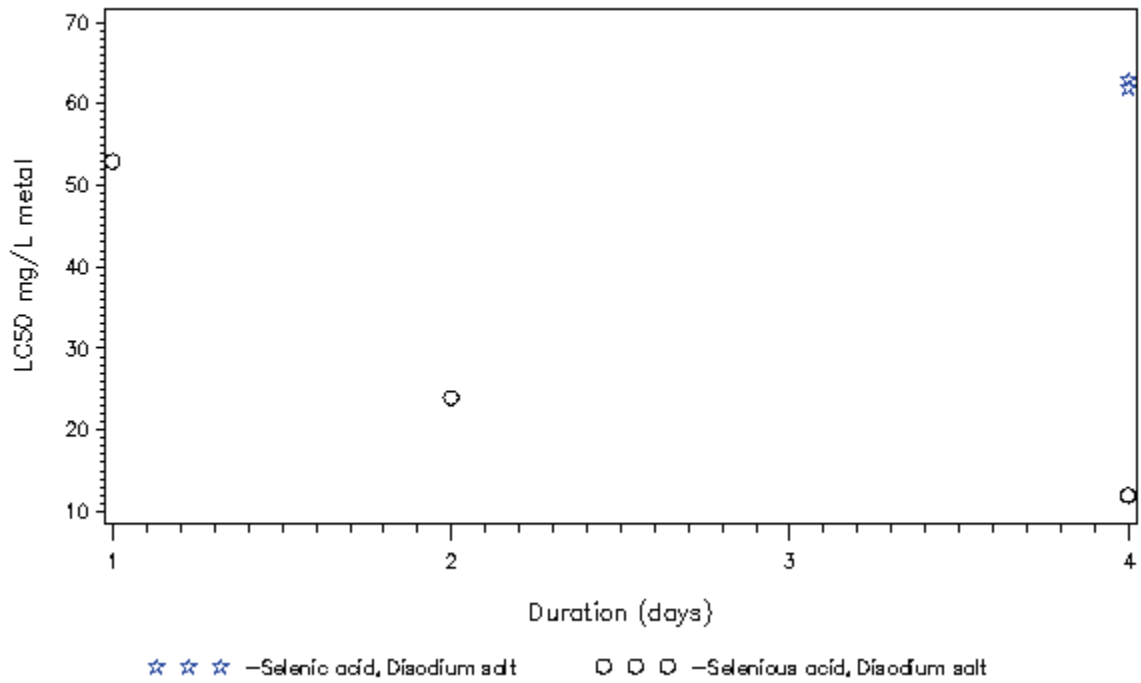


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis macrochirus exposed to Selenium at T>15C in hard water

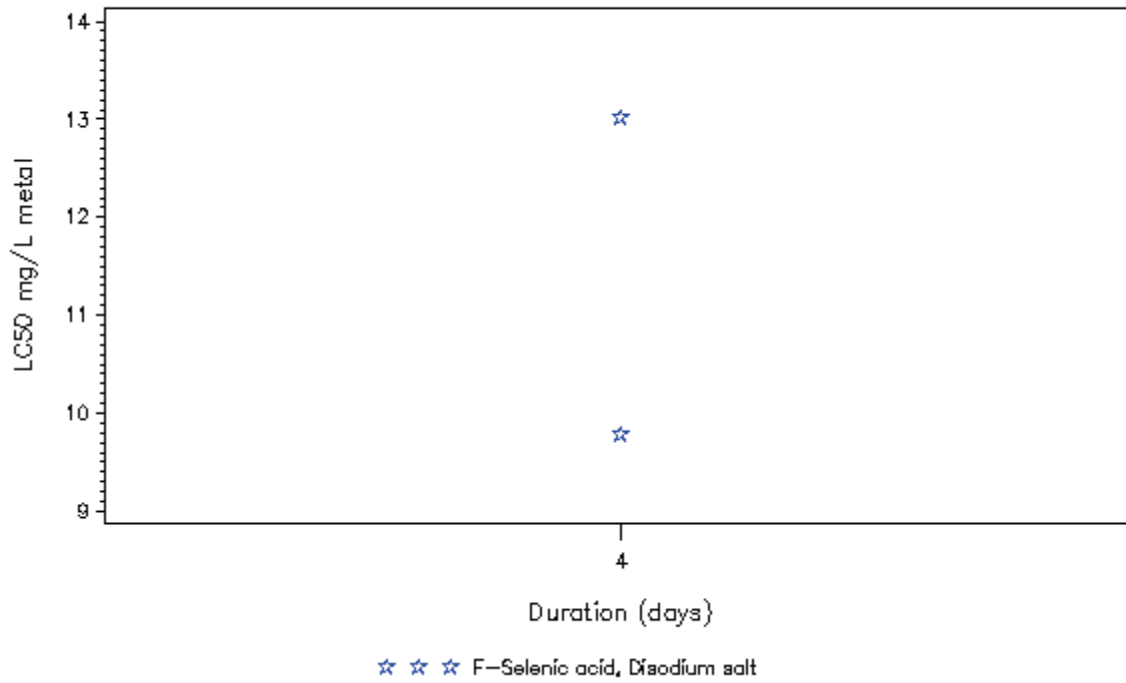


Lepomis macrochirus exposed to Selenium at T>15C in soft water

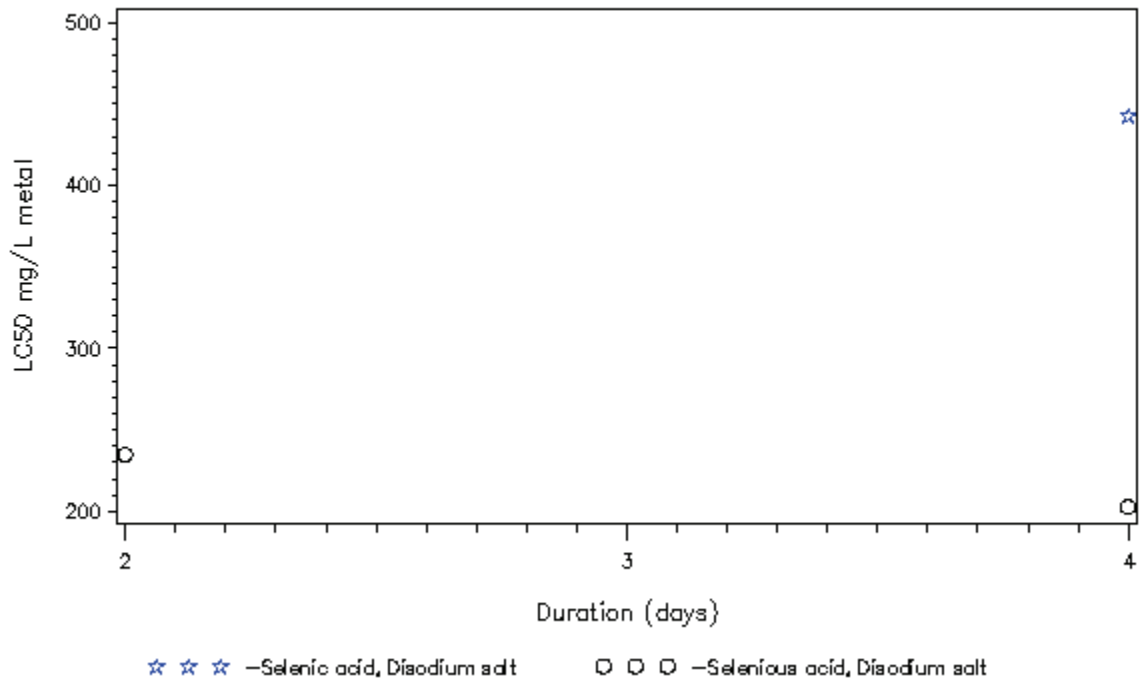


S – Static Test, F – Flowthrough Test, R –Renewal Test

Morone saxatilis exposed to Selenium at T>15C in NONE water

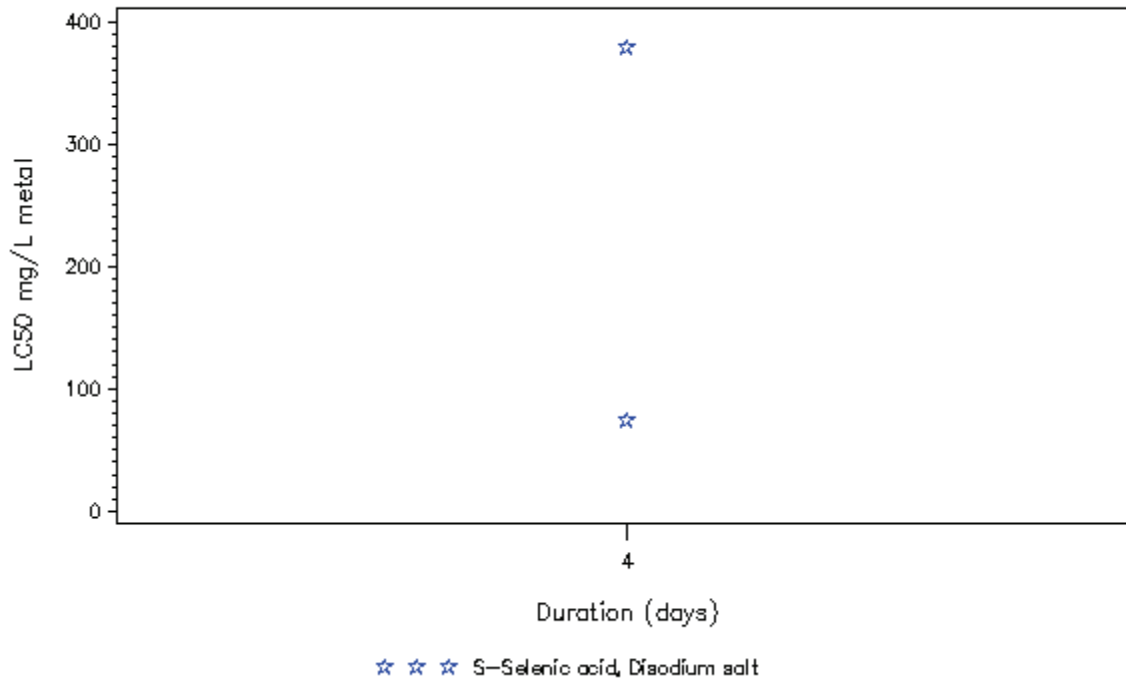


Nepheleopsis obscura exposed to Selenium at T>15C in soft water

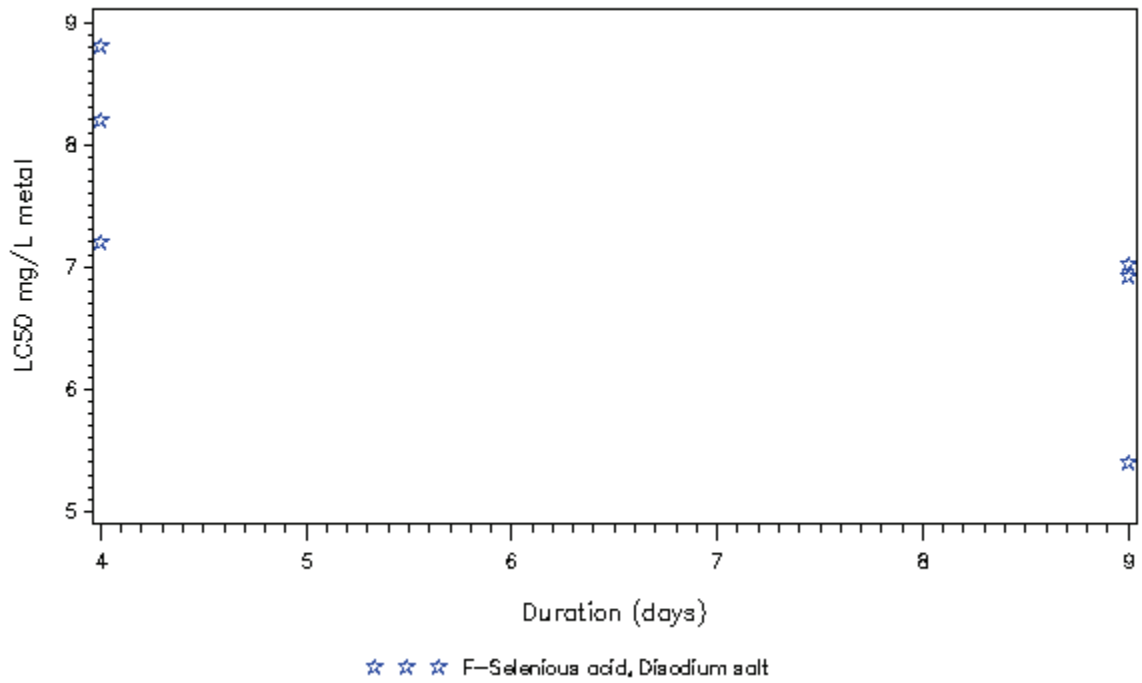


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus kisutch exposed to Selenium at T<=15C in soft water

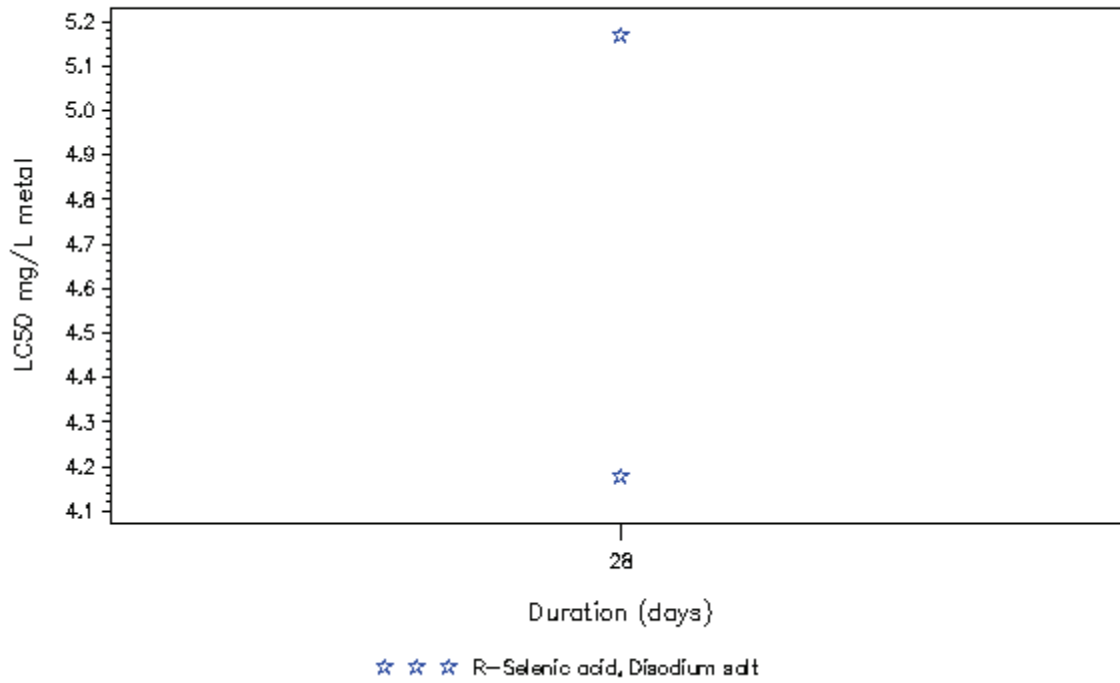


Oncorhynchus mykiss exposed to Selenium at T<=15C in hard water

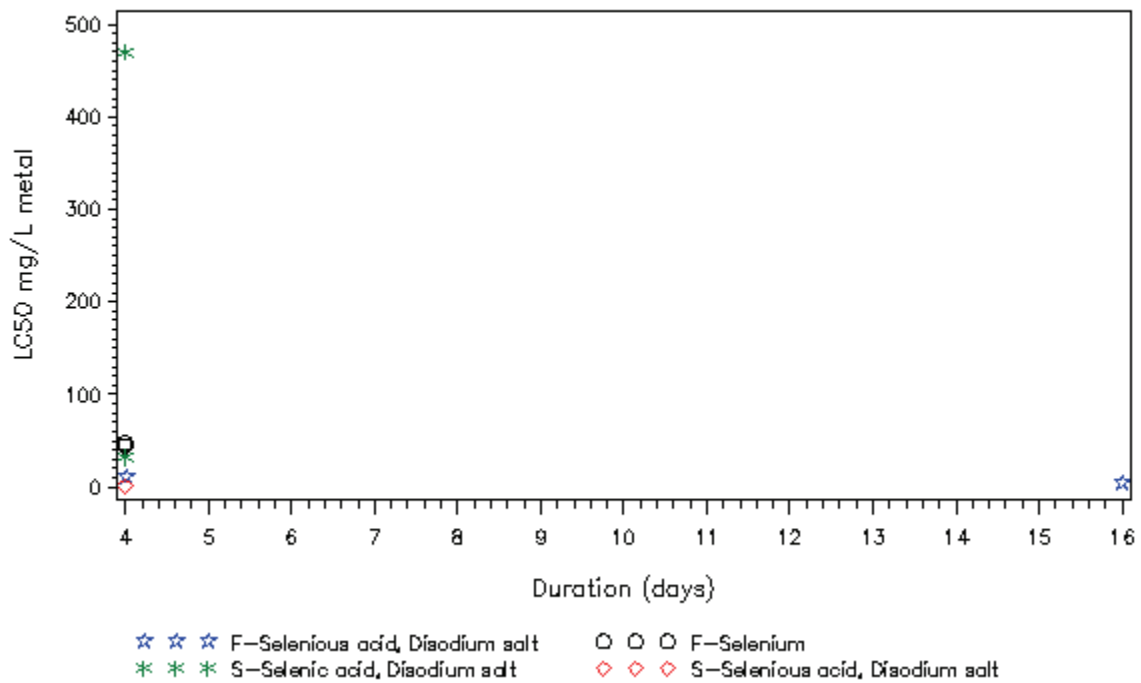


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Selenium at T<=15C in moderate water

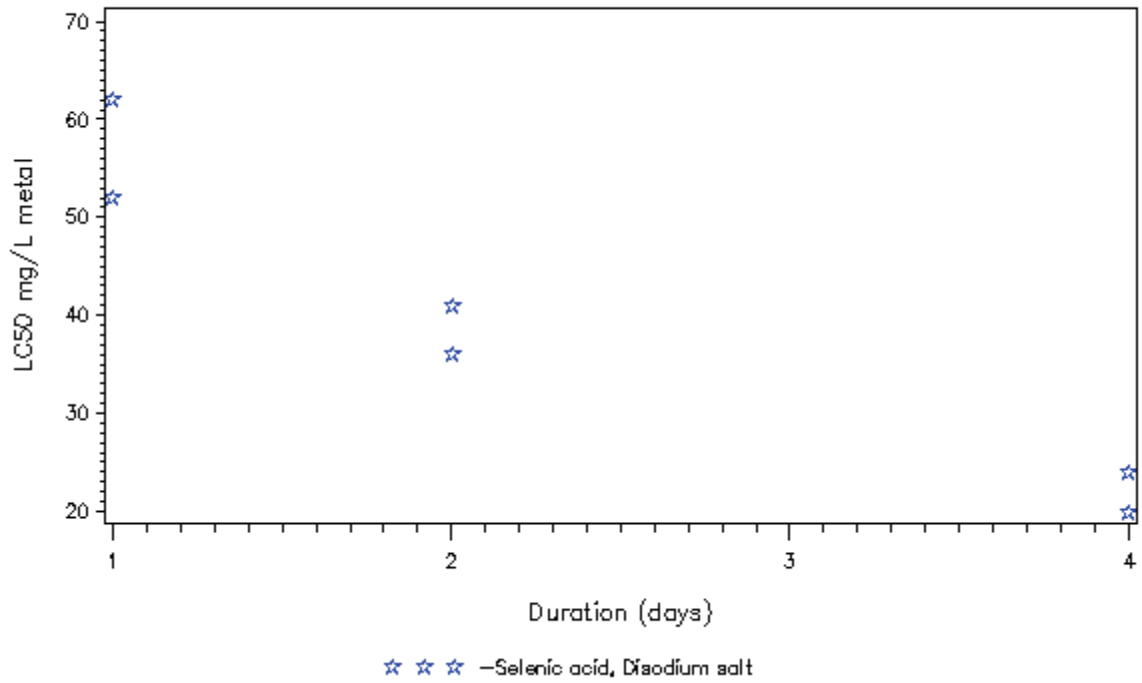


Oncorhynchus mykiss exposed to Selenium at T<=15C in soft water

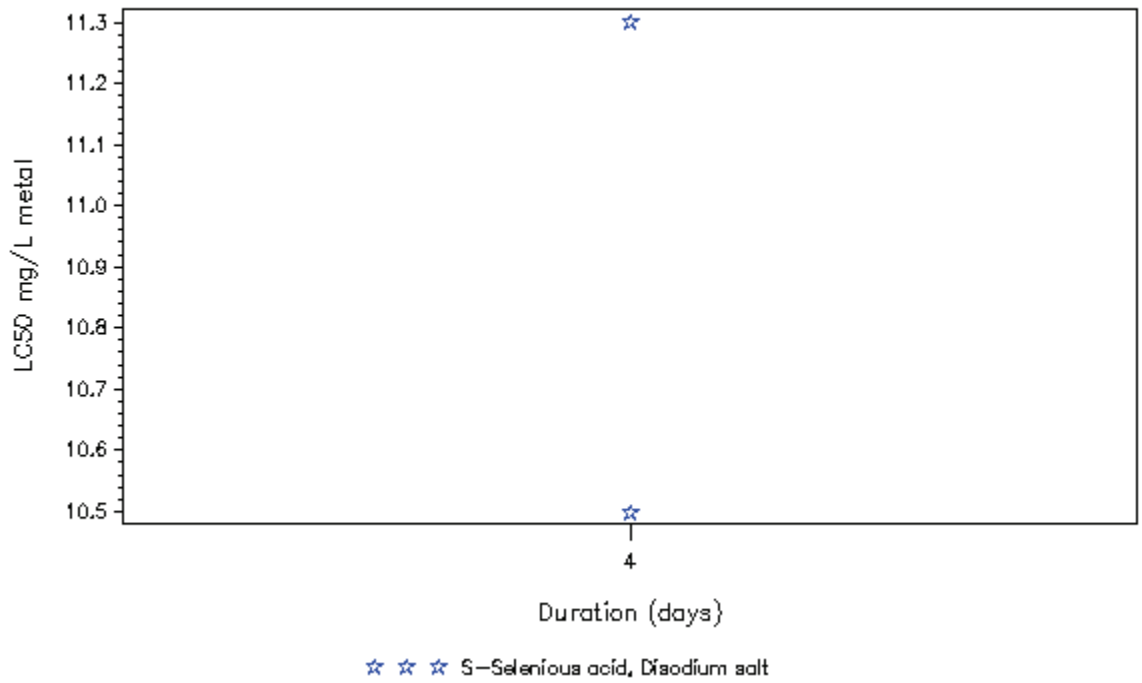


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Selenium at T>15C in soft water

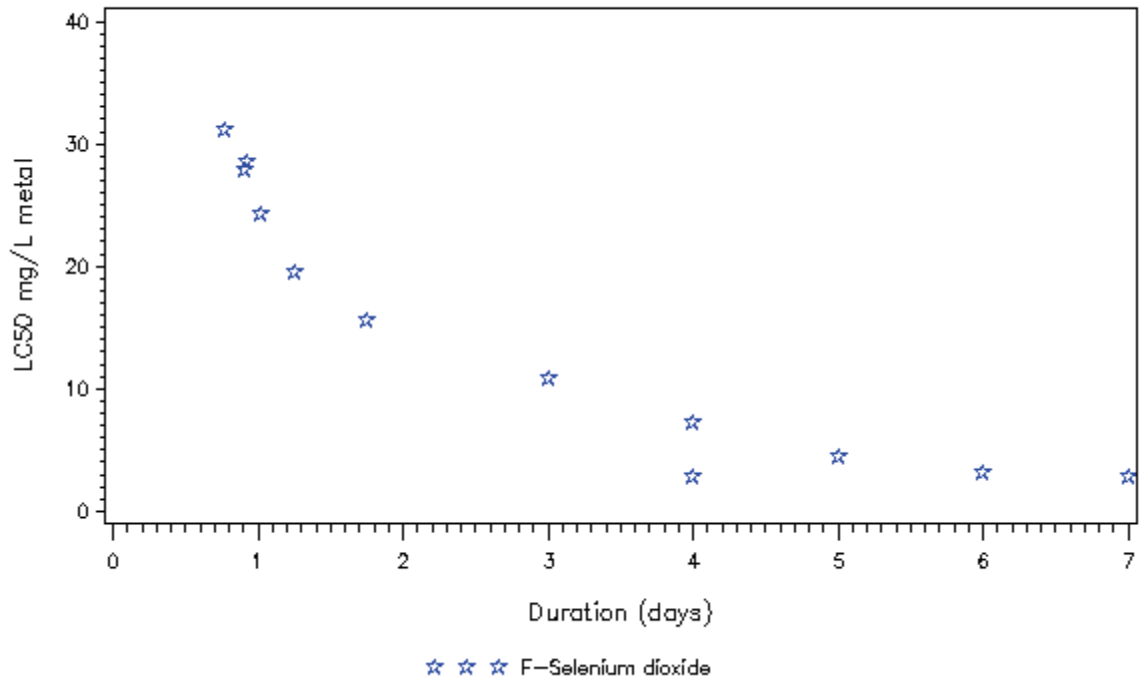


Pimephales promelas exposed to Selenium at T<=15C in very hard water

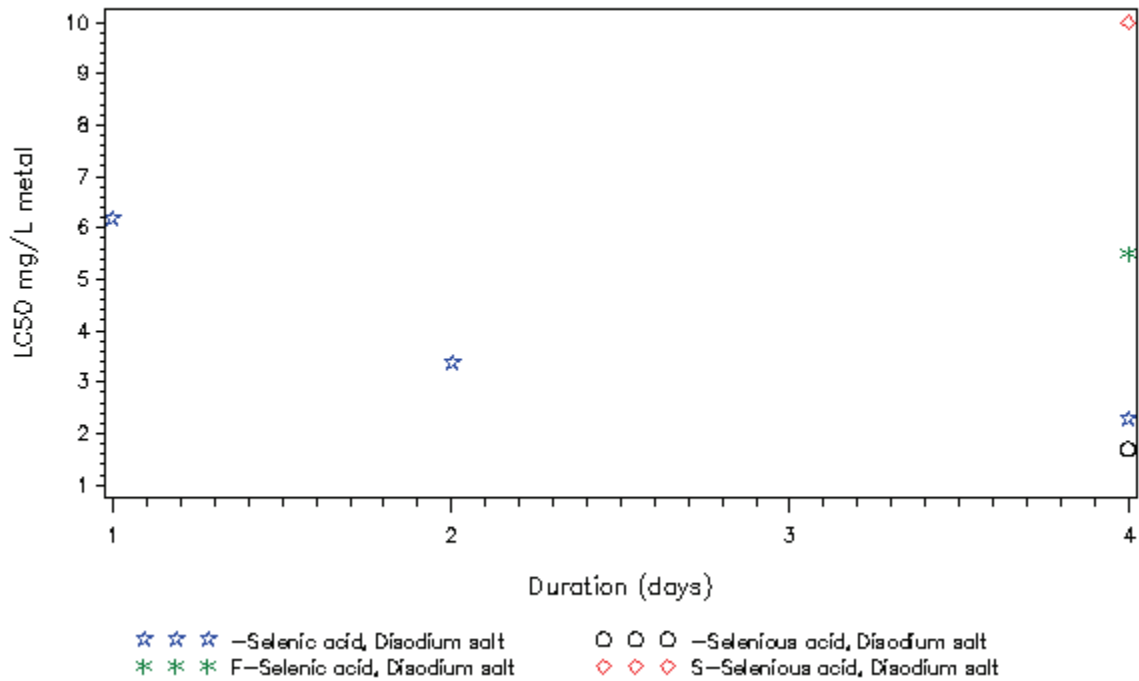


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Selenium at T>15C in hard water

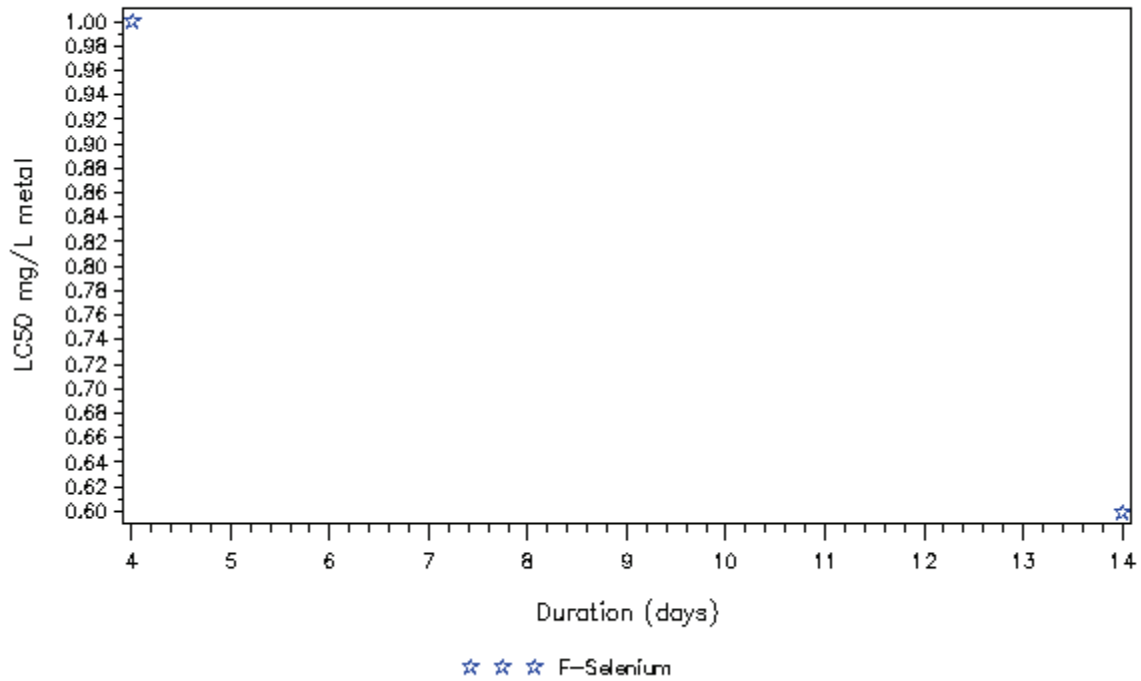


Pimephales promelas exposed to Selenium at T>15C in soft water

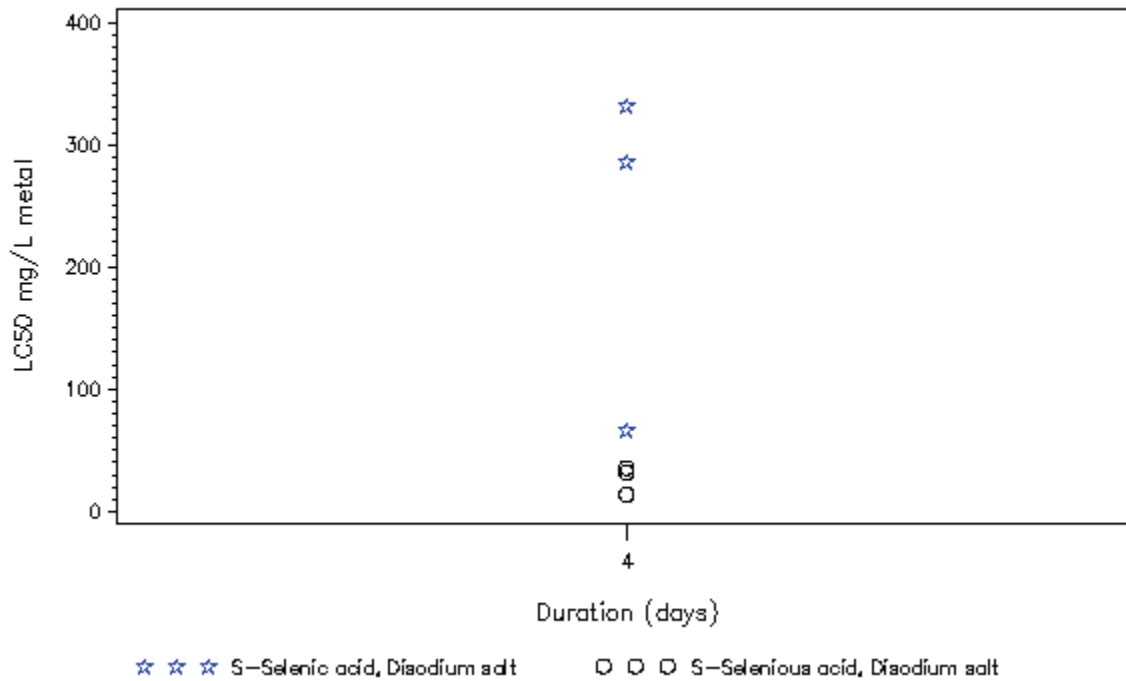


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Selenium at T>15C in very hard water

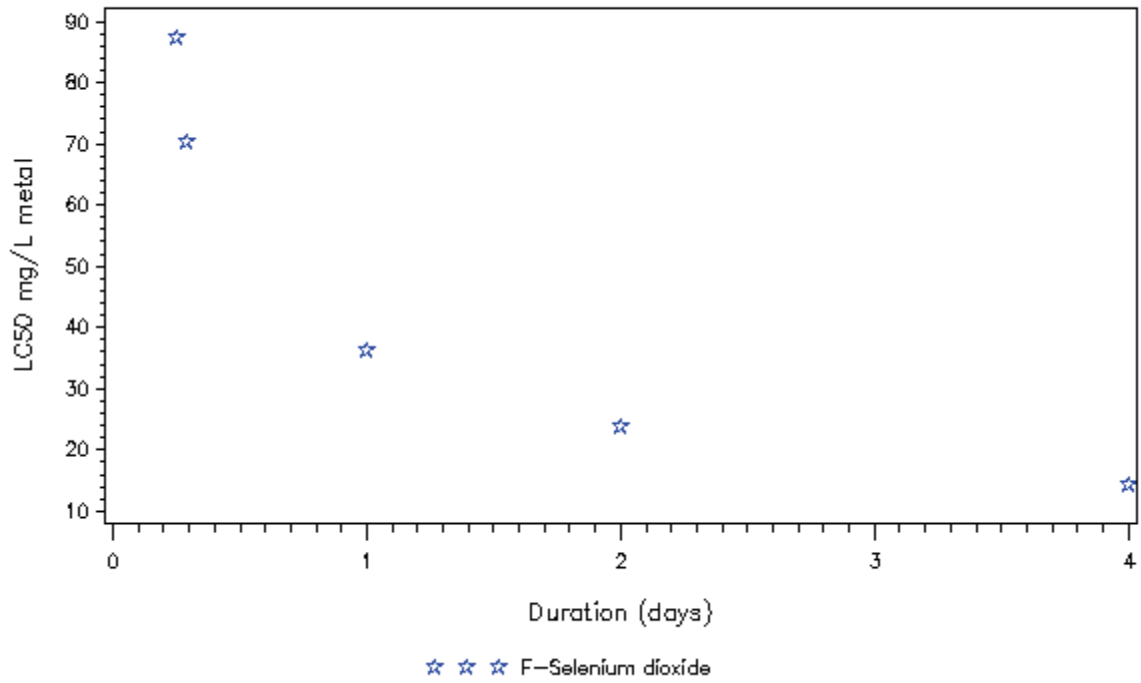


Ptychocheilus lucius exposed to Selenium at T>15C in very hard water

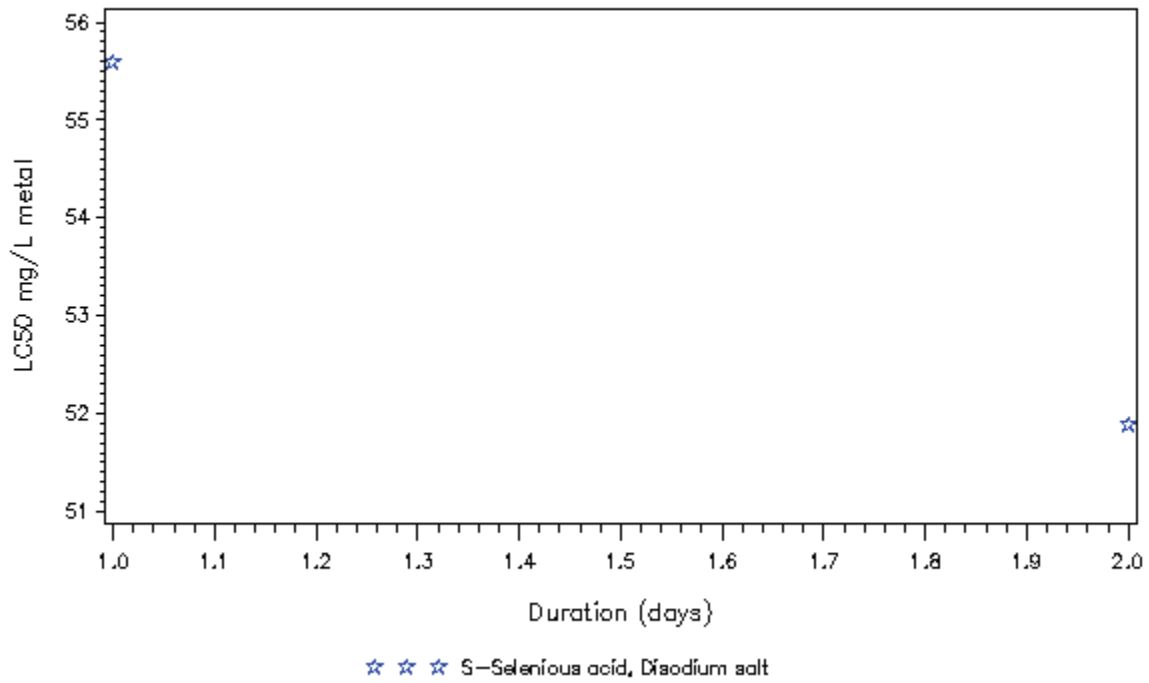


S – Static Test, F – Flowthrough Test, R –Renewal Test

Salvelinus fontinalis exposed to Selenium at T>15C in hard water

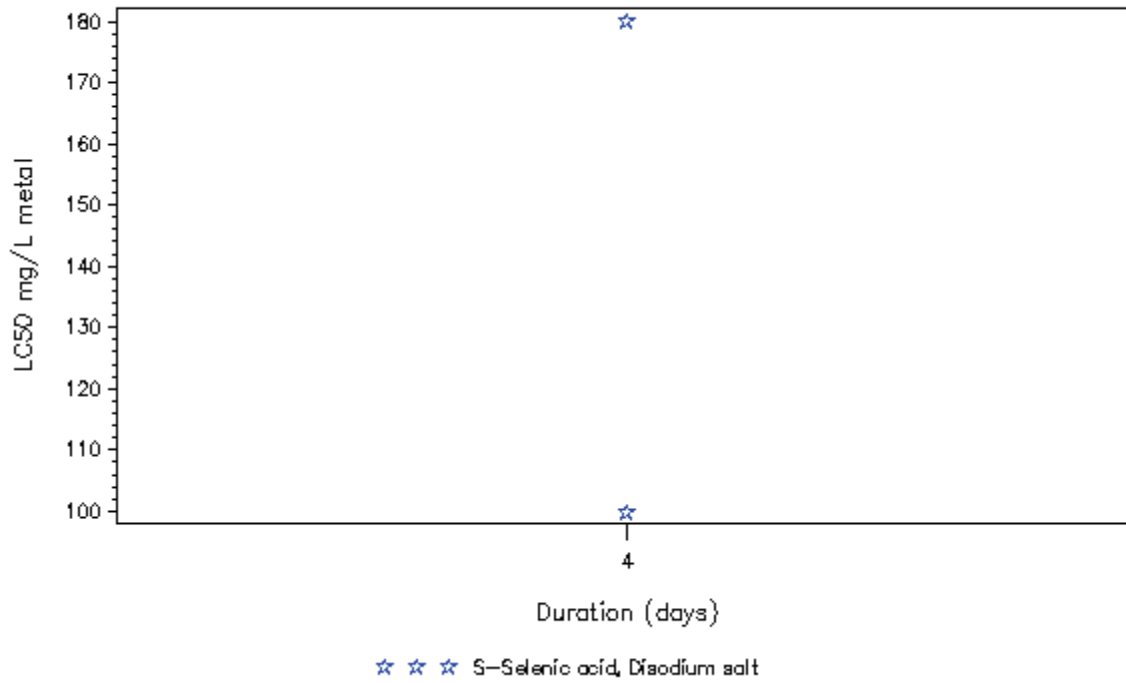


Spirostomum ambiguum exposed to Selenium at T>15C in very soft water

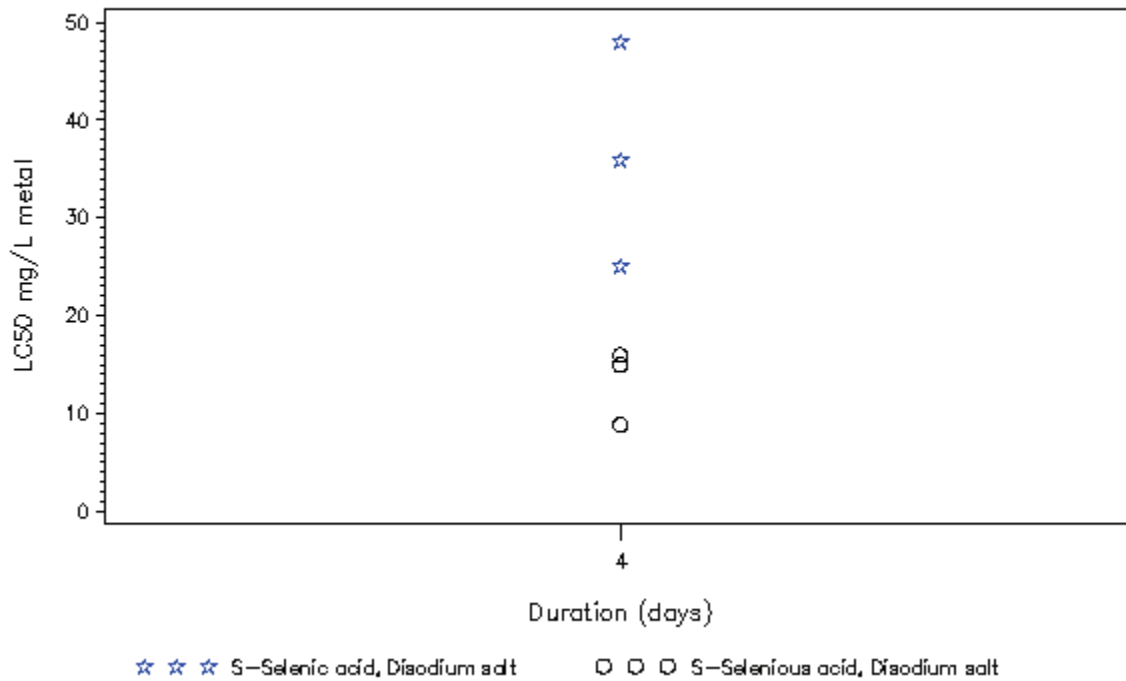


S – Static Test, F – Flowthrough Test, R –Renewal Test

Thymallus arcticus exposed to Selenium at T<=15C in soft water

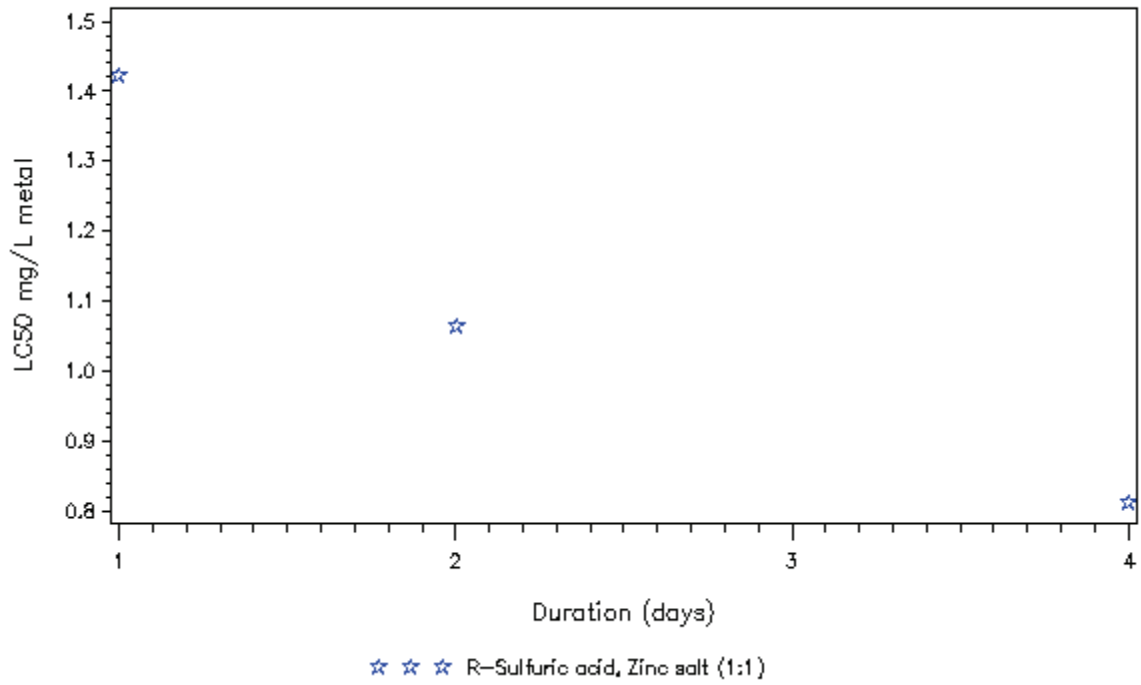


Xyrauchen texanus exposed to Selenium at T>15C in very hard water

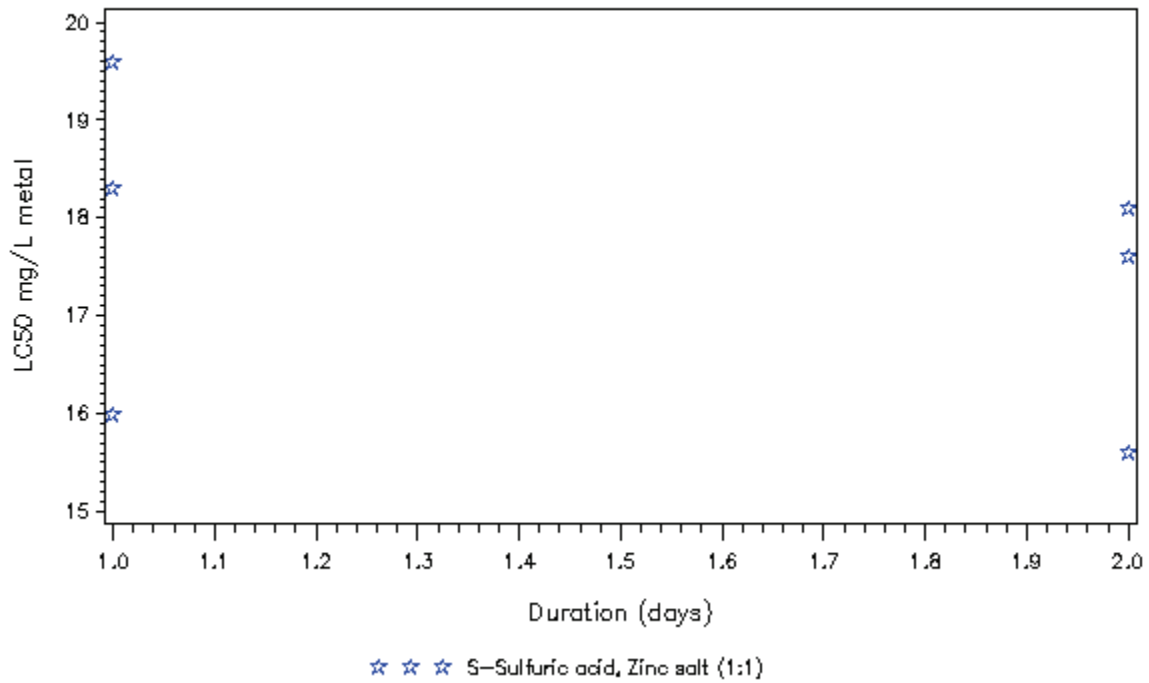


S – Static Test, F – Flowthrough Test, R –Renewal Test

Acrossocheilus paradoxus exposed to Zinc at T>15C in soft water

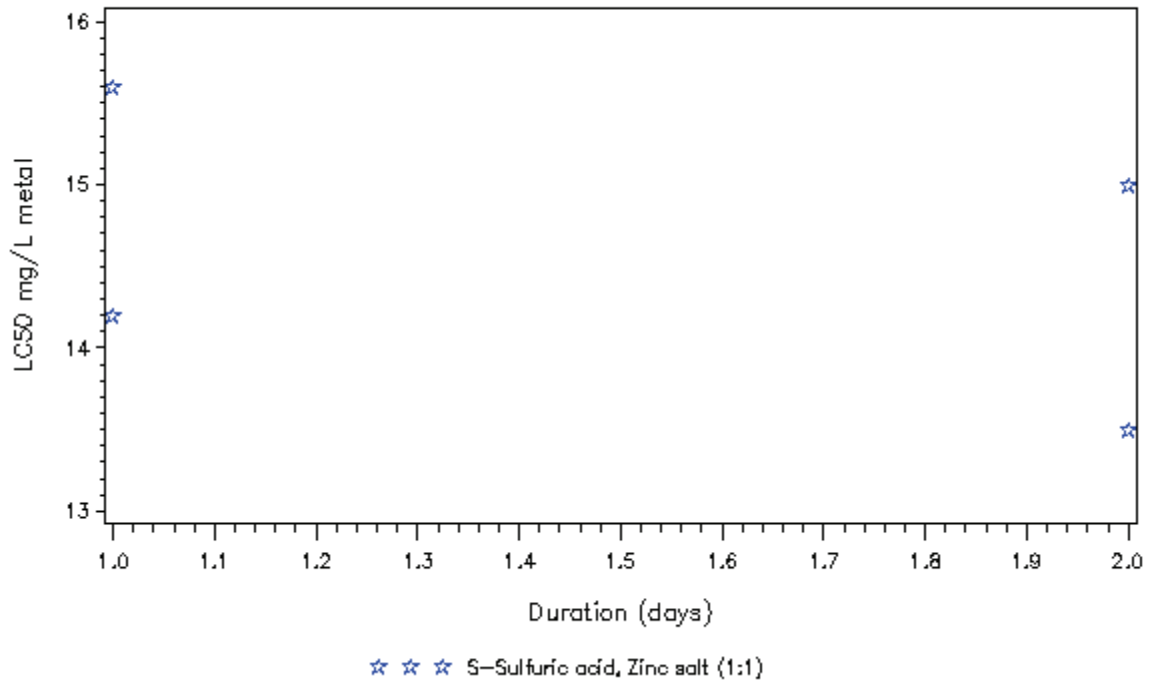


Aeolosoma headleyi exposed to Zinc at T<=15C in soft water

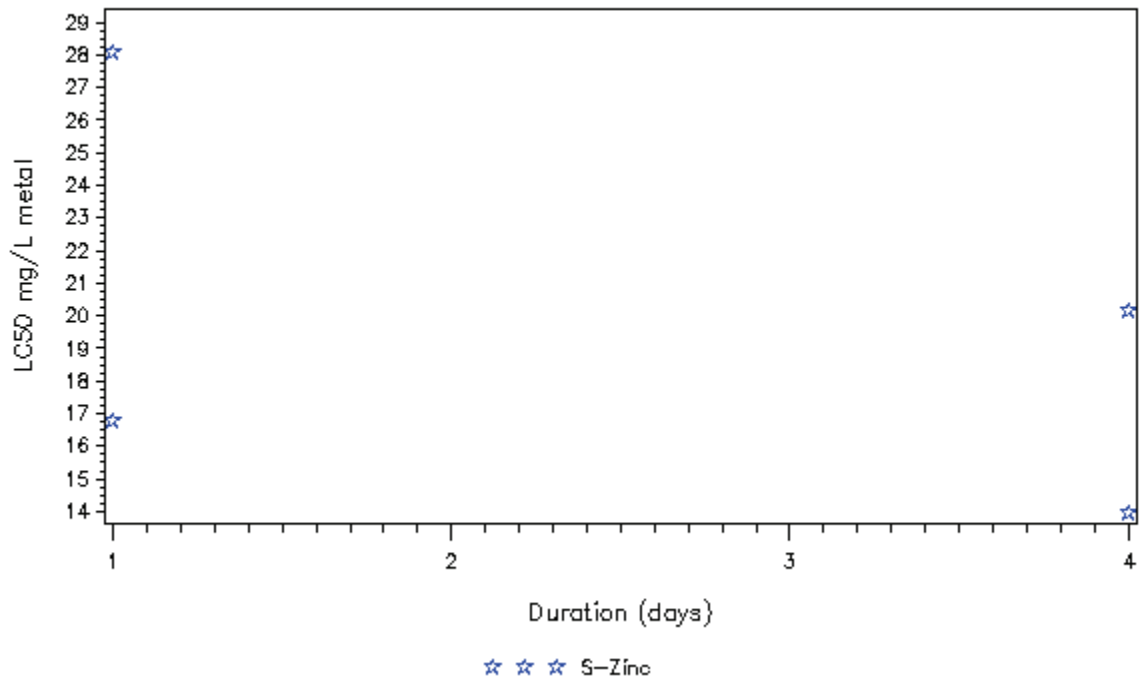


S – Static Test, F – Flowthrough Test, R –Renewal Test

Aeolosoma headleyi exposed to Zinc at T>15C in soft water

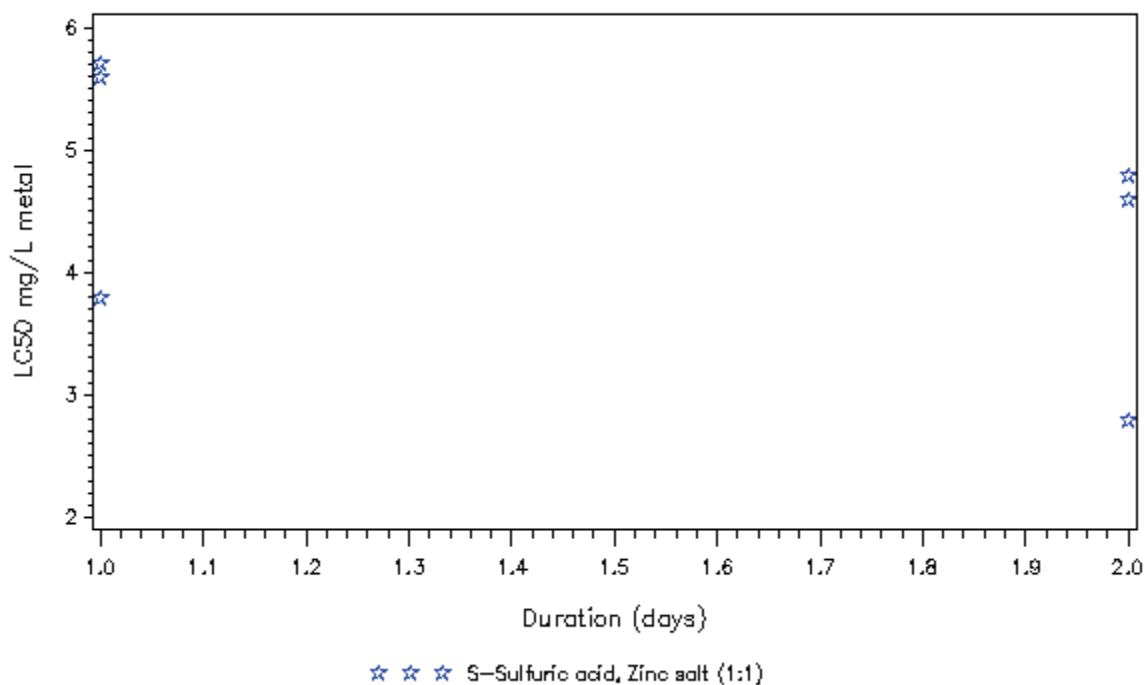


Amnicola exposed to Zinc at T>15C in soft water

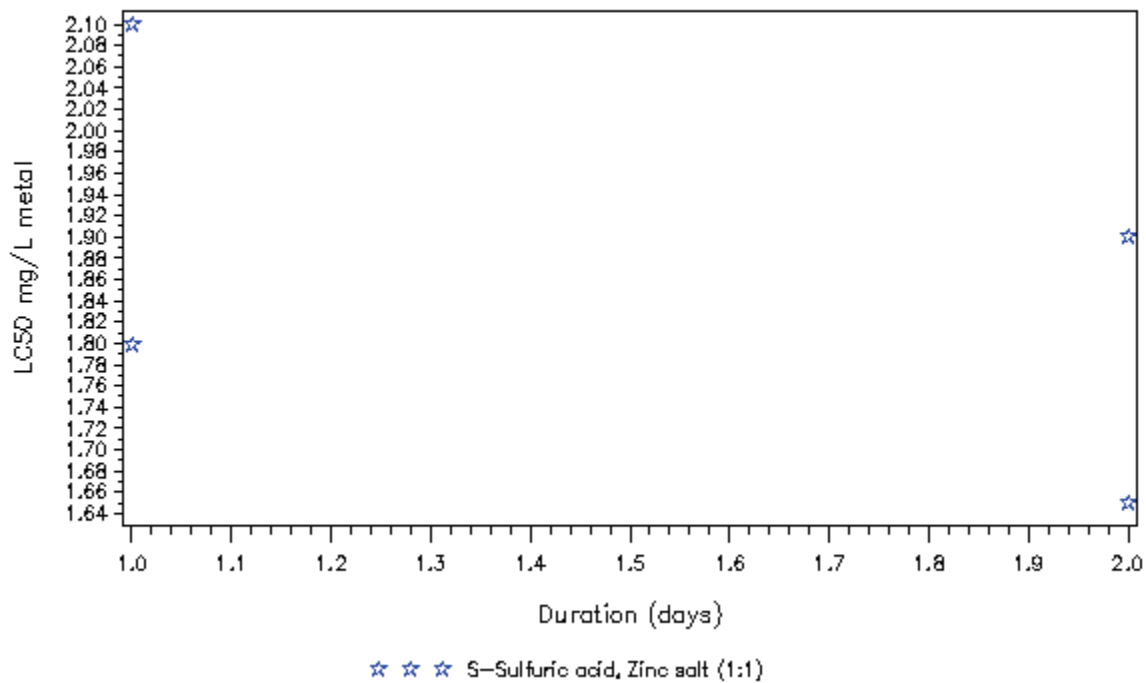


S – Static Test, F – Flowthrough Test, R –Renewal Test

Anculosa exposed to Zinc at T<=15C in soft water

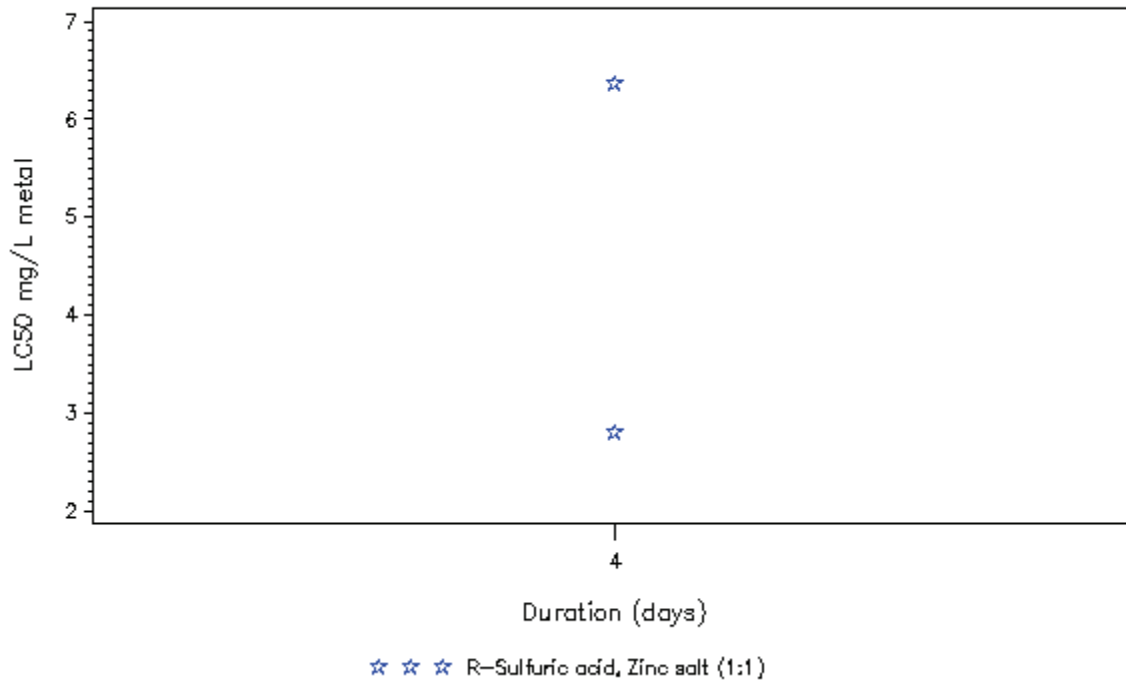


Anculosa exposed to Zinc at T>15C in soft water

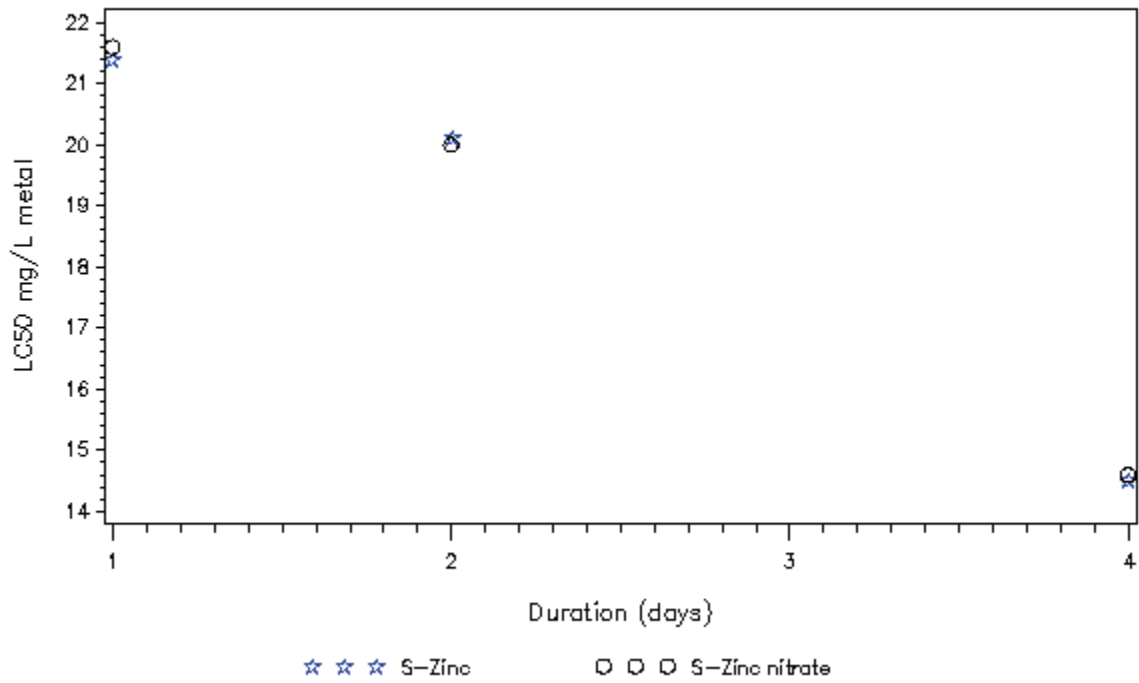


S – Static Test, F – Flowthrough Test, R –Renewal Test

Anguilla japonica exposed to Zinc at T>15C in soft water

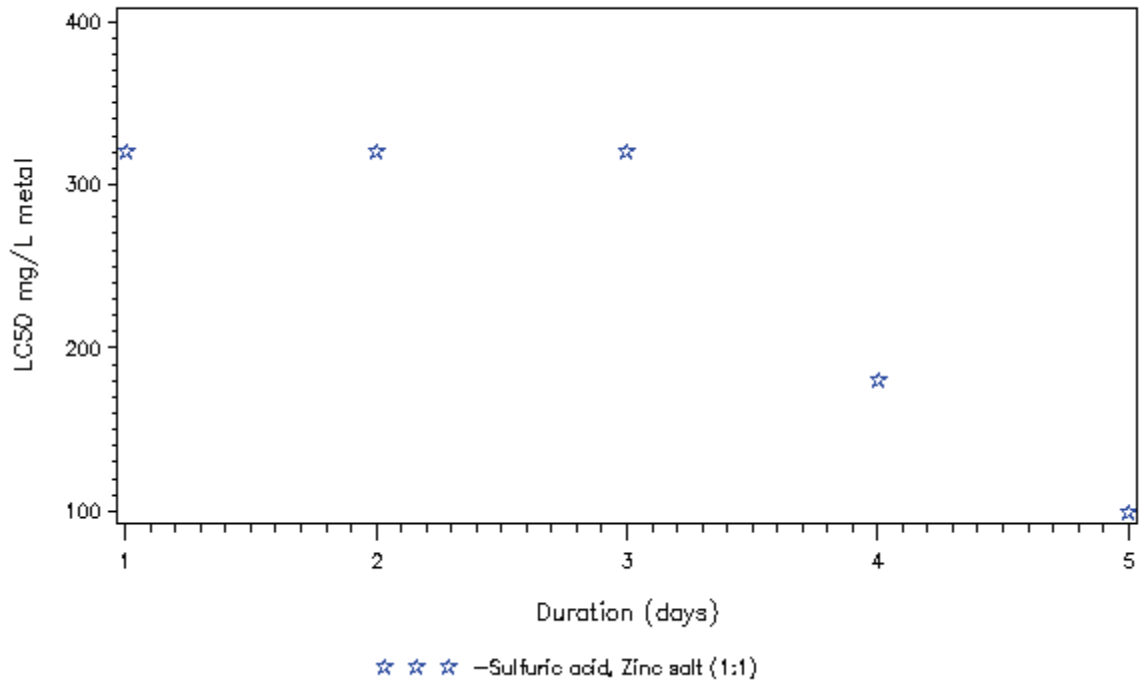


Anguilla rostrata exposed to Zinc at T>15C in soft water

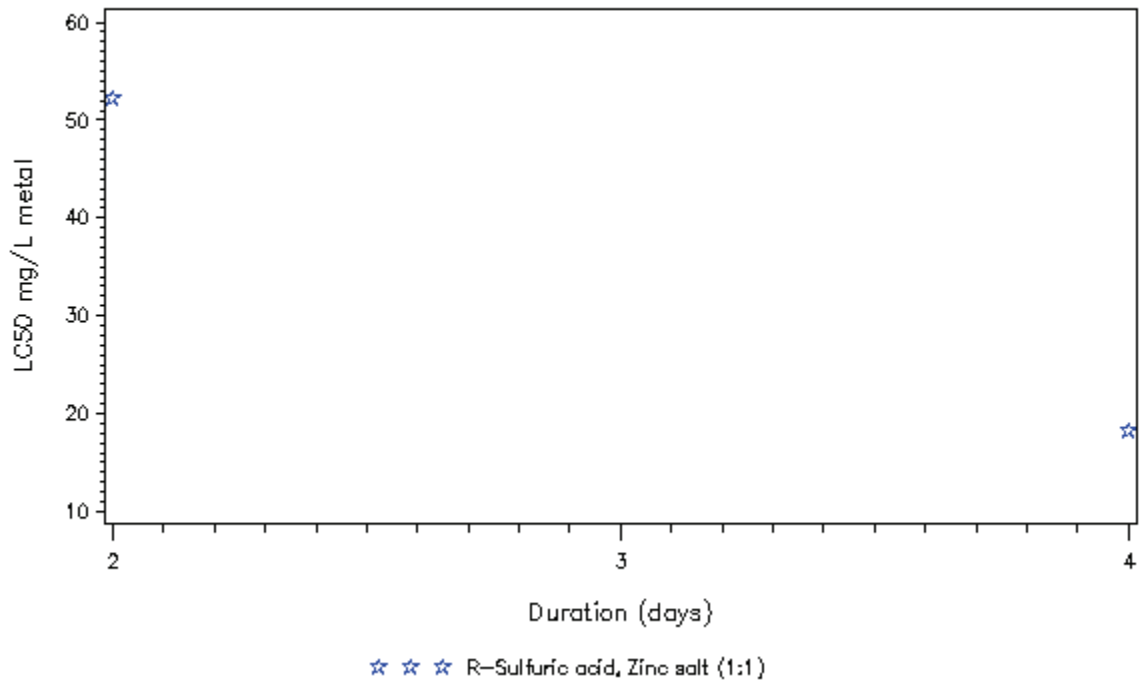


S – Static Test, F – Flowthrough Test, R –Renewal Test

Argia exposed to Zinc at T>15C in soft water

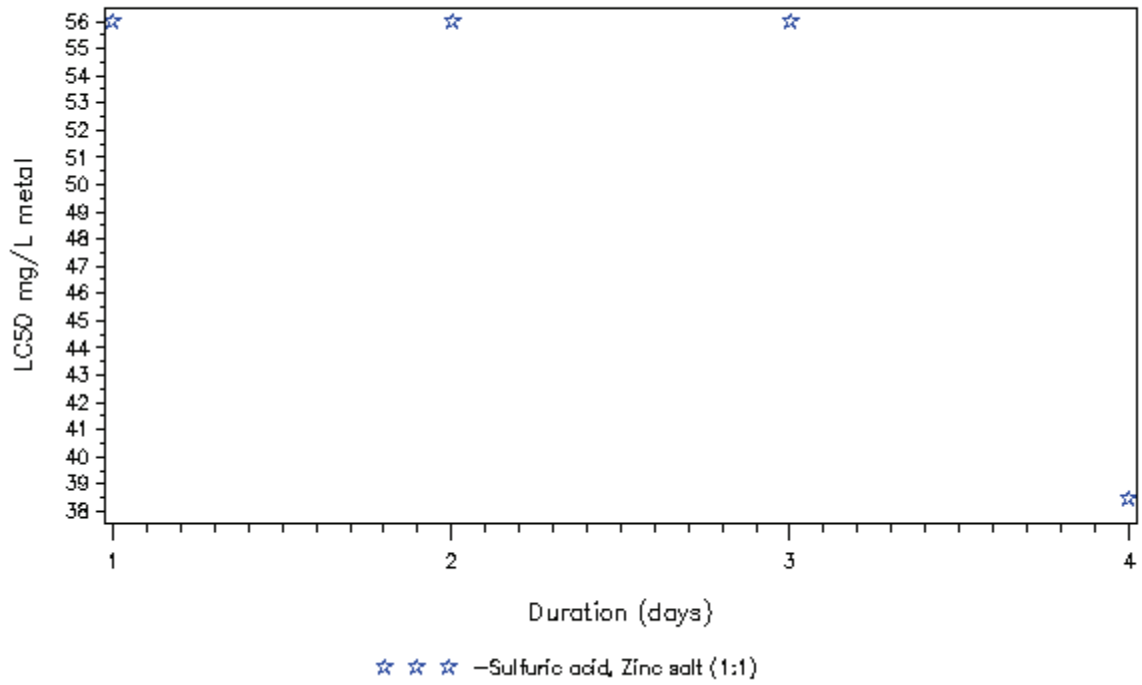


Acellus aquaticus exposed to Zinc at T<=15C in soft water

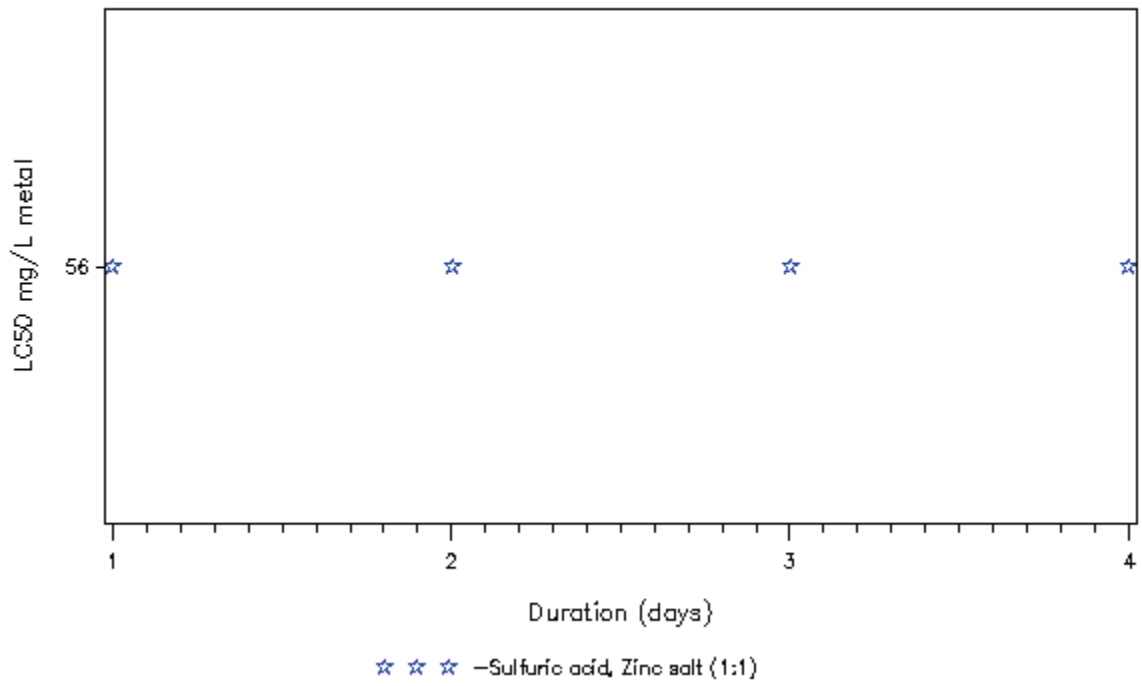


S – Static Test, F – Flowthrough Test, R –Renewal Test

Asellus communis exposed to Zinc at T>15C in moderate water

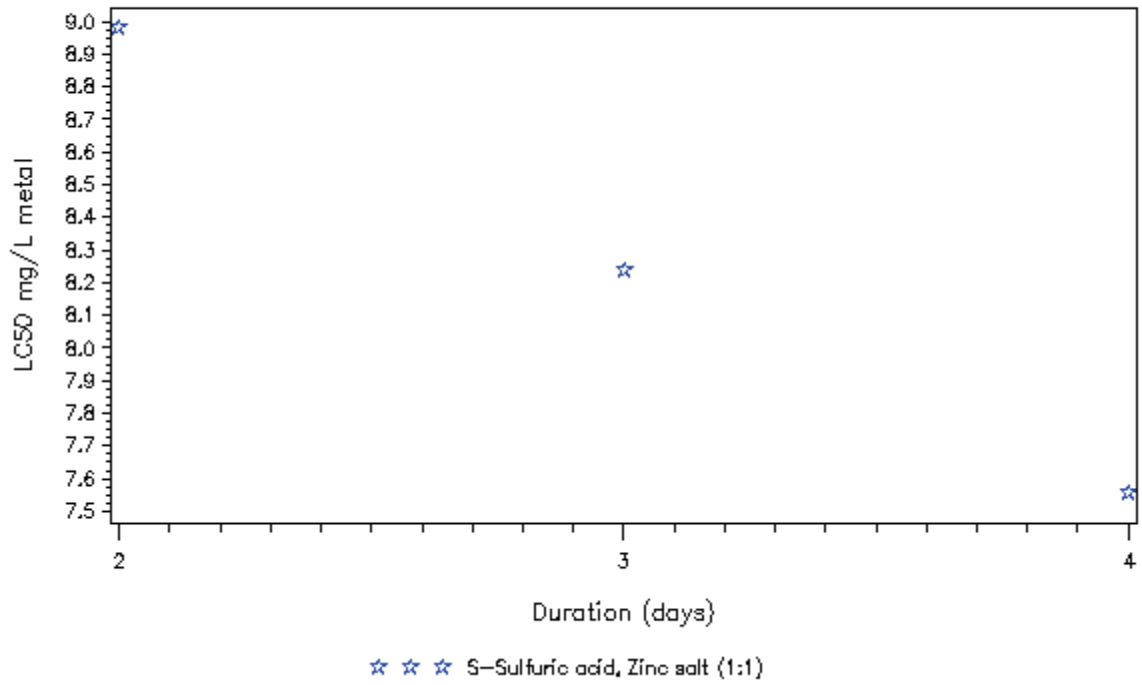


Asellus communis exposed to Zinc at T>15C in soft water

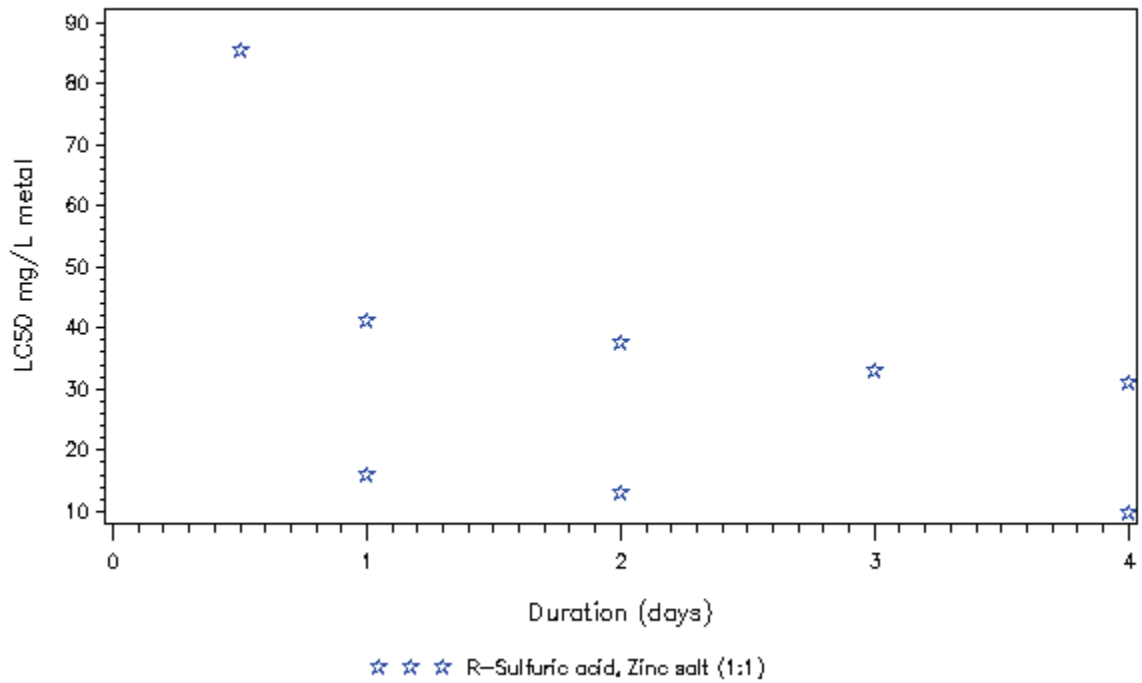


S – Static Test, F – Flowthrough Test, R –Renewal Test

Barbus conchoniuis exposed to Zinc at T>15C in very hard water

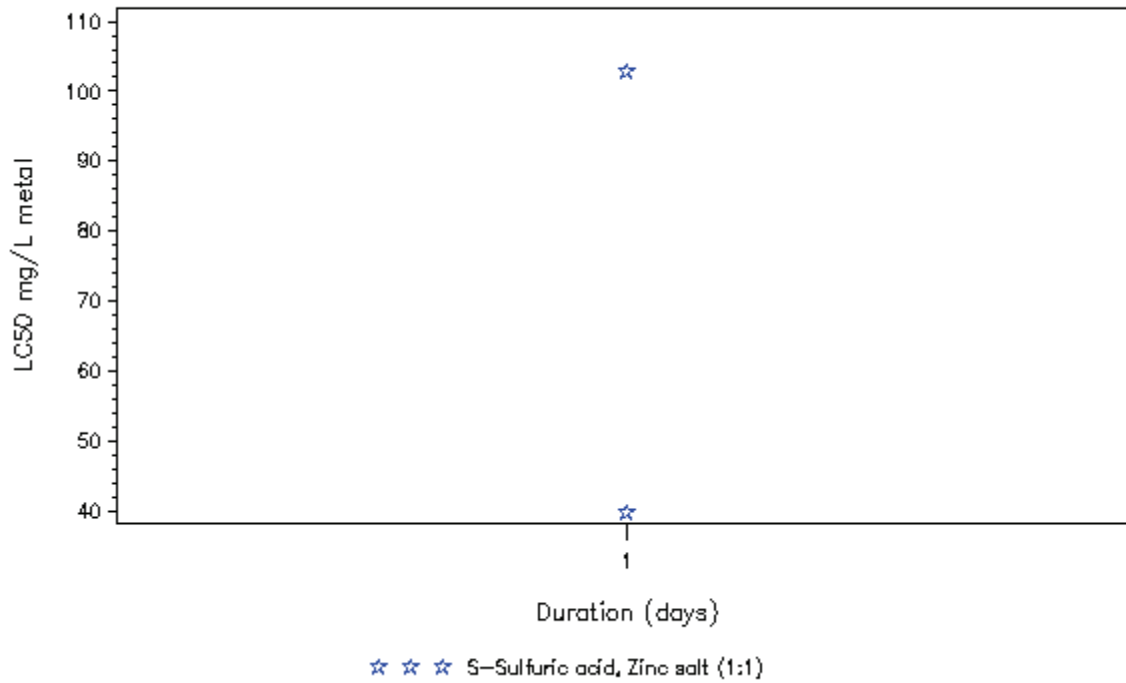


Barbus saphore exposed to Zinc at T>15C in very hard water

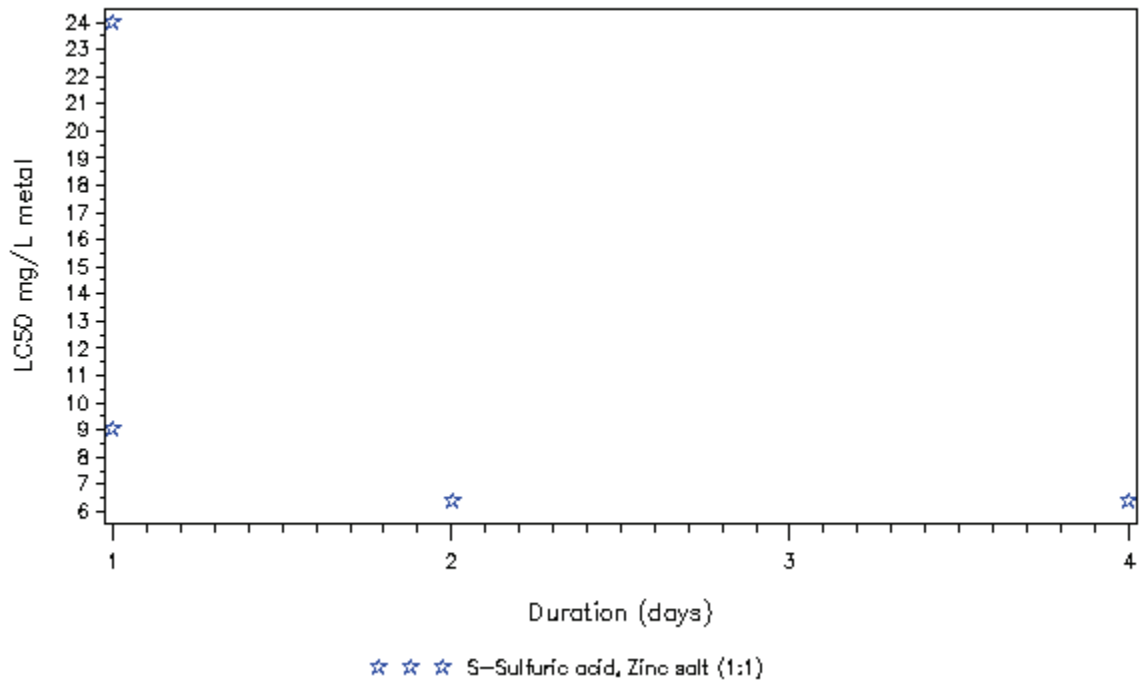


S – Static Test, F – Flowthrough Test, R –Renewal Test

Carassius auratus exposed to Zinc at T<=15C in soft water

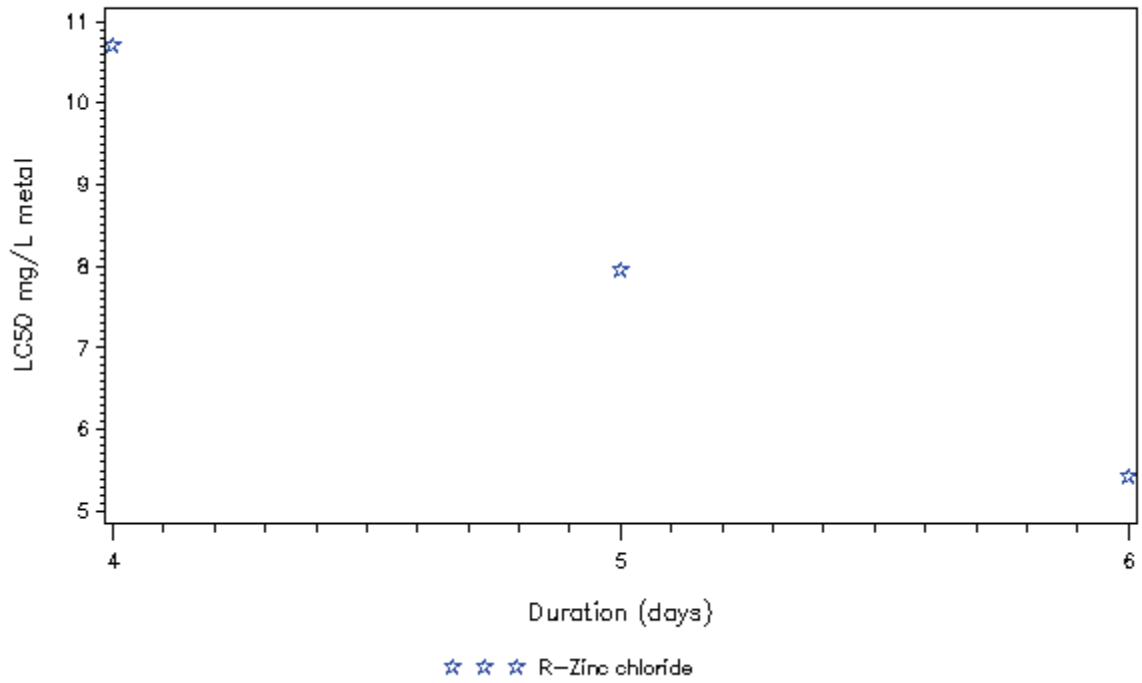


Carassius auratus exposed to Zinc at T>15C in soft water

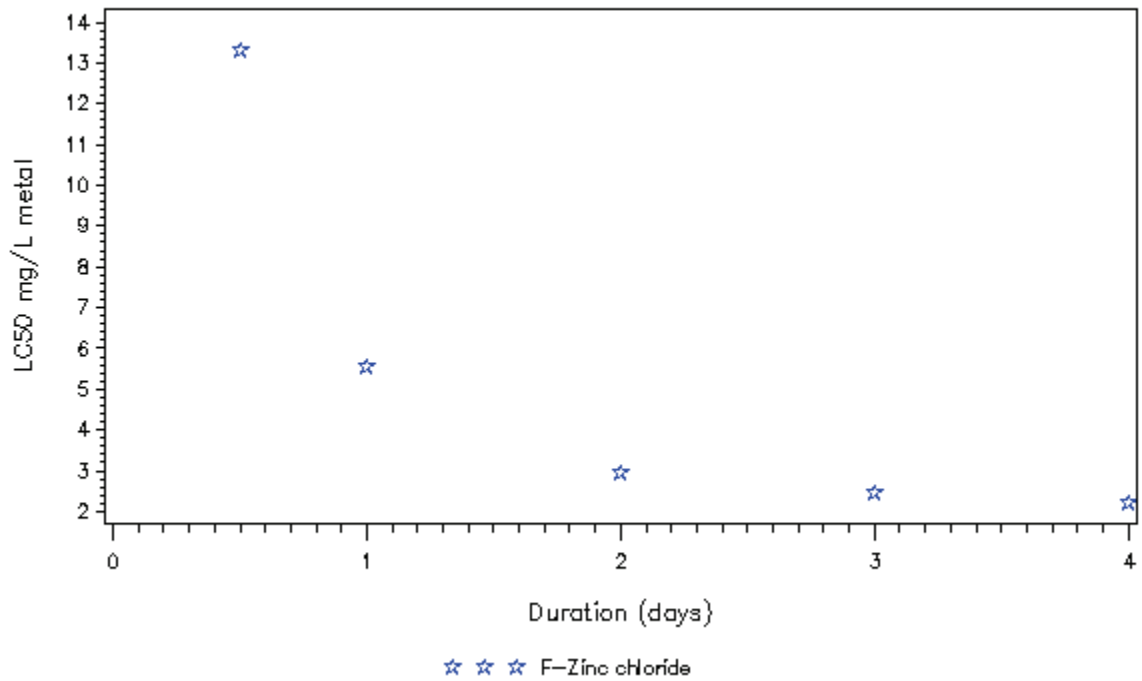


S – Static Test, F – Flowthrough Test, R –Renewal Test

Carassius auratus exposed to Zinc at T>15C in very soft water

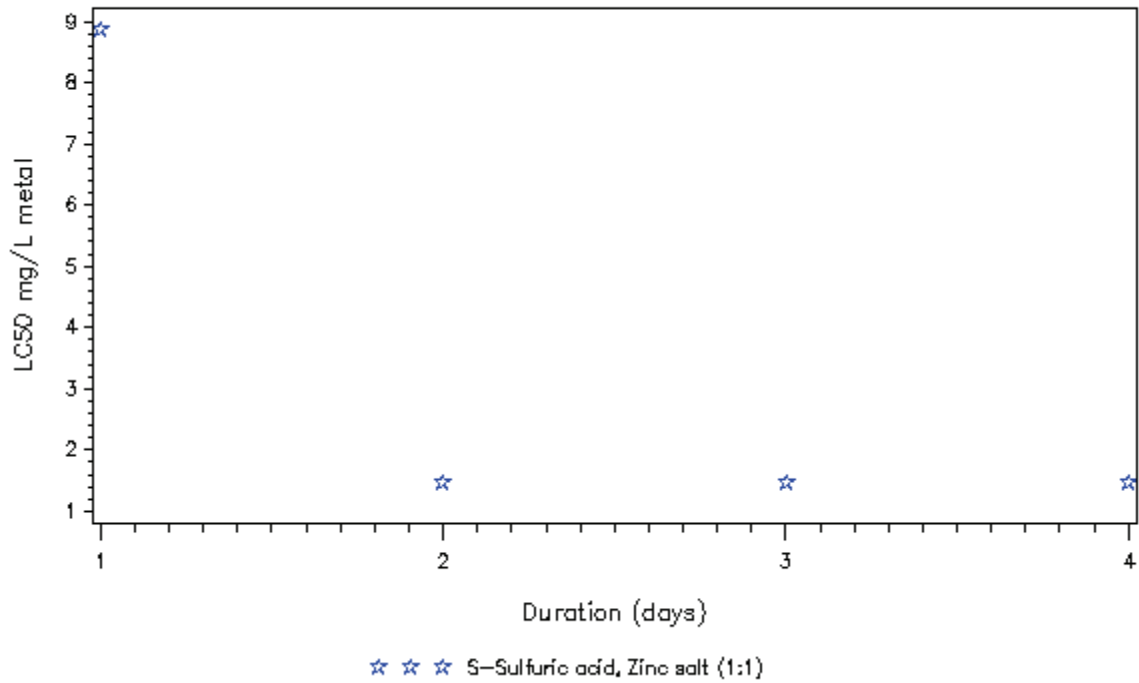


Catostomus commersoni exposed to Zinc at T<=15C in very soft water

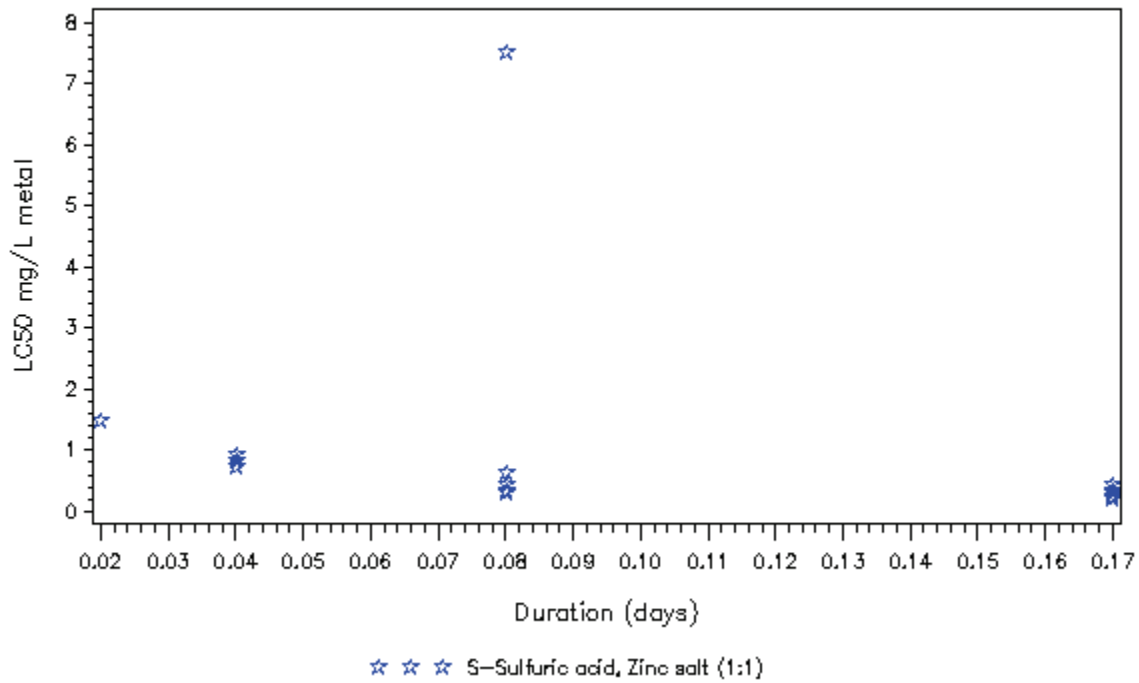


S – Static Test, F – Flowthrough Test, R –Renewal Test

Catostomus latipinnis exposed to Zinc at T>15C in hard water

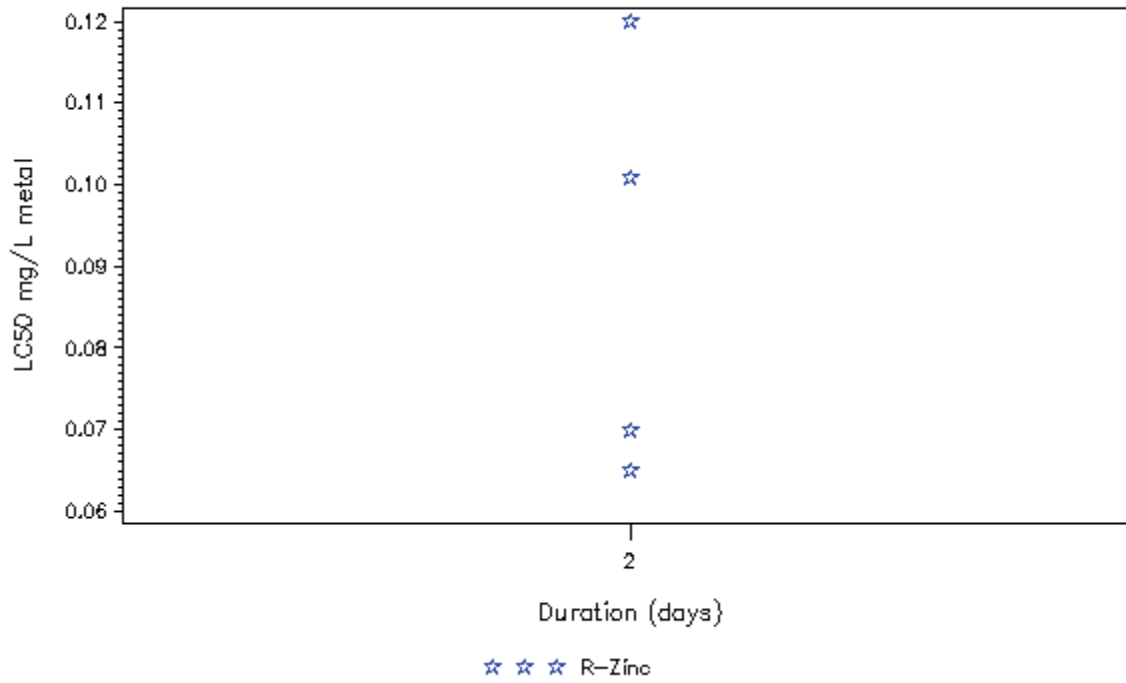


Ceriodaphnia dubia exposed to Zinc at T>15C in hard water

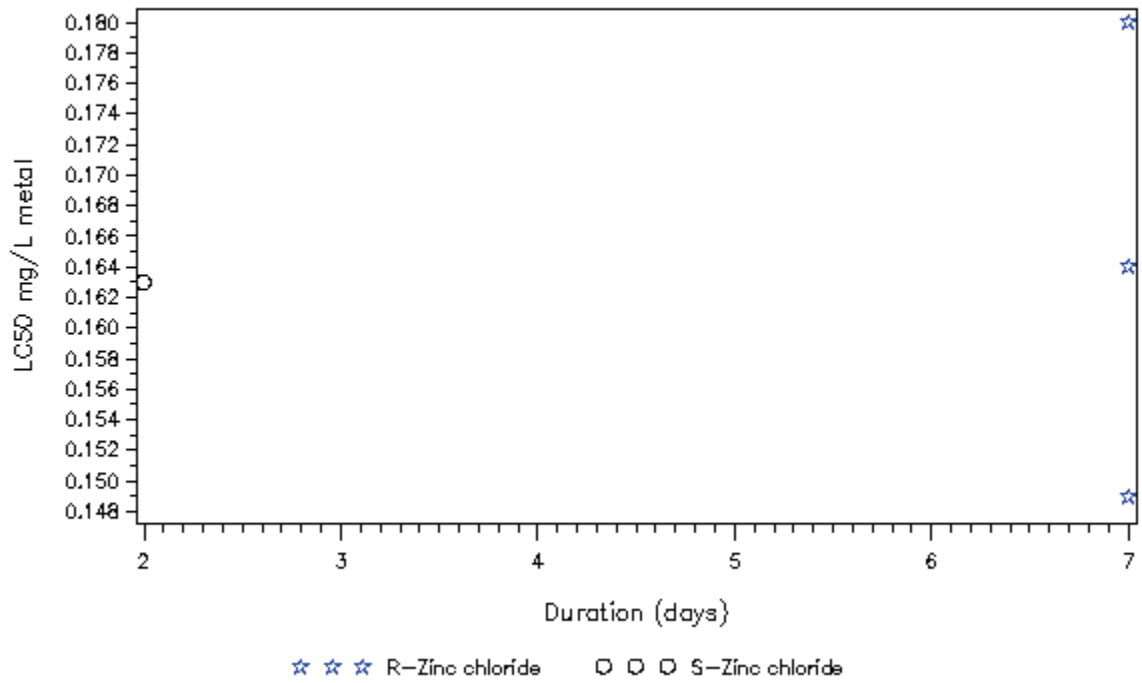


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ceriodaphnia dubia exposed to Zinc at T>15C in moderate water

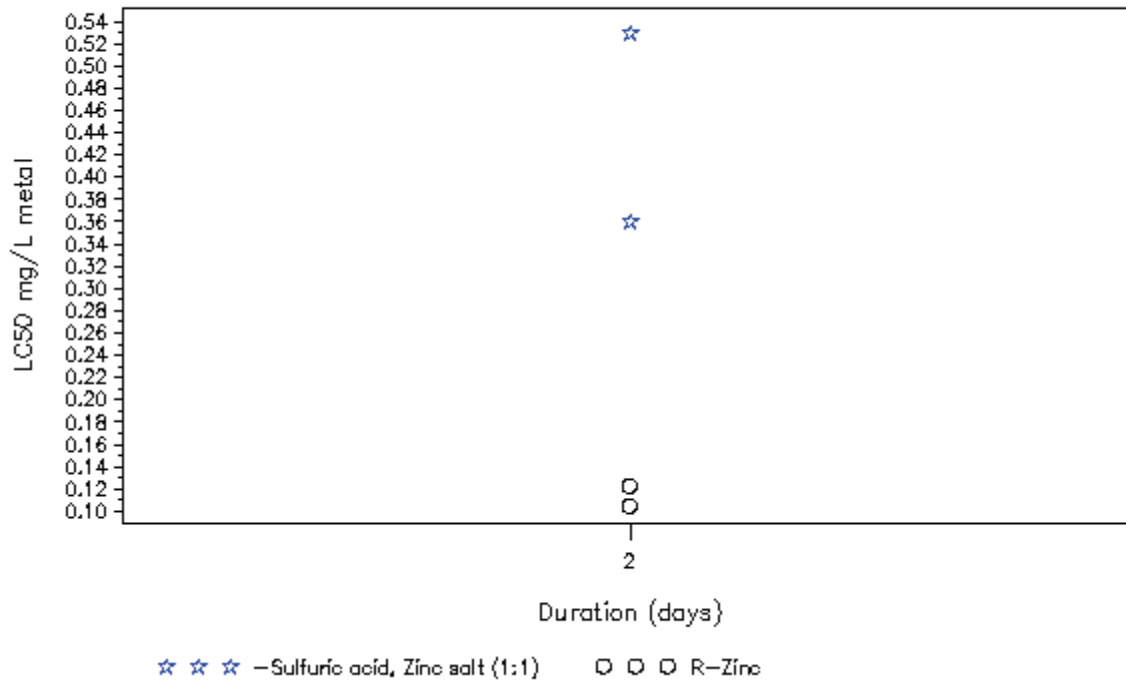


Ceriodaphnia dubia exposed to Zinc at T>15C in soft water

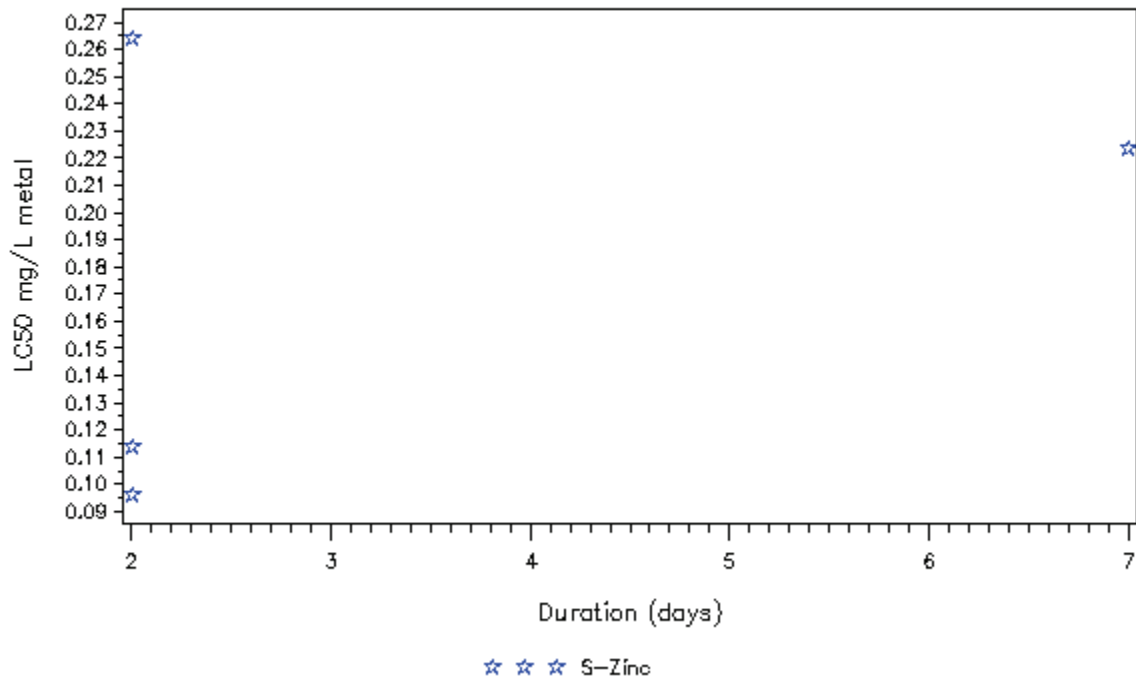


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ceriodaphnia dubia exposed to Zinc at T>15C in very hard water

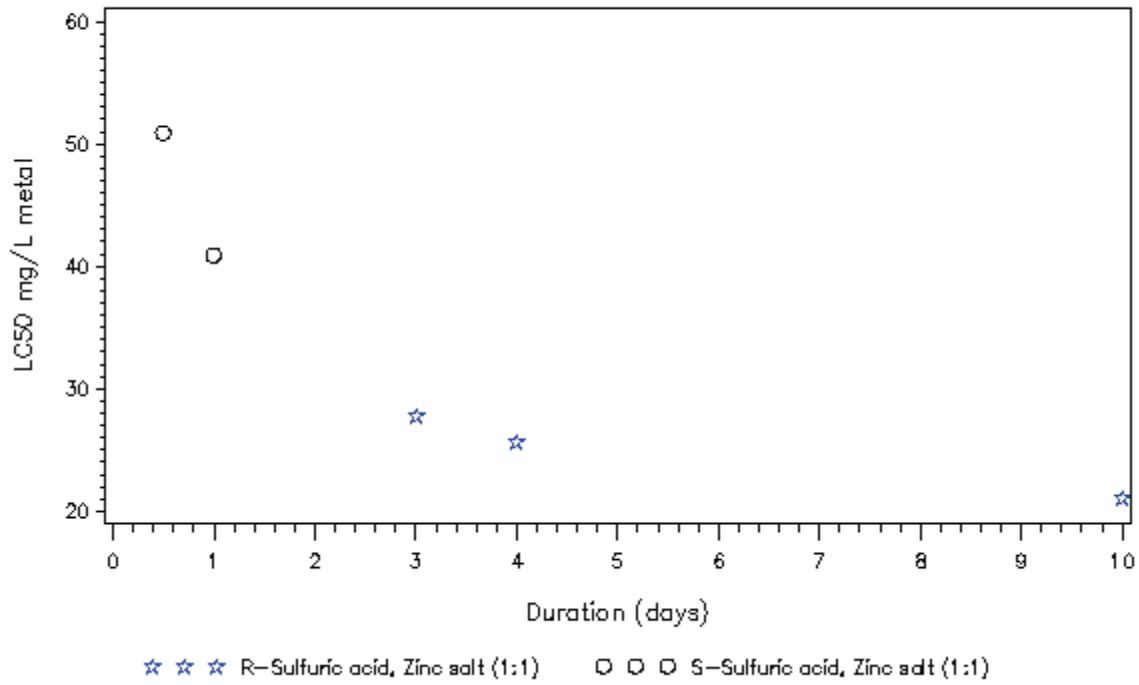


Ceriodaphnia reticulata exposed to Zinc at T>15C in very hard water

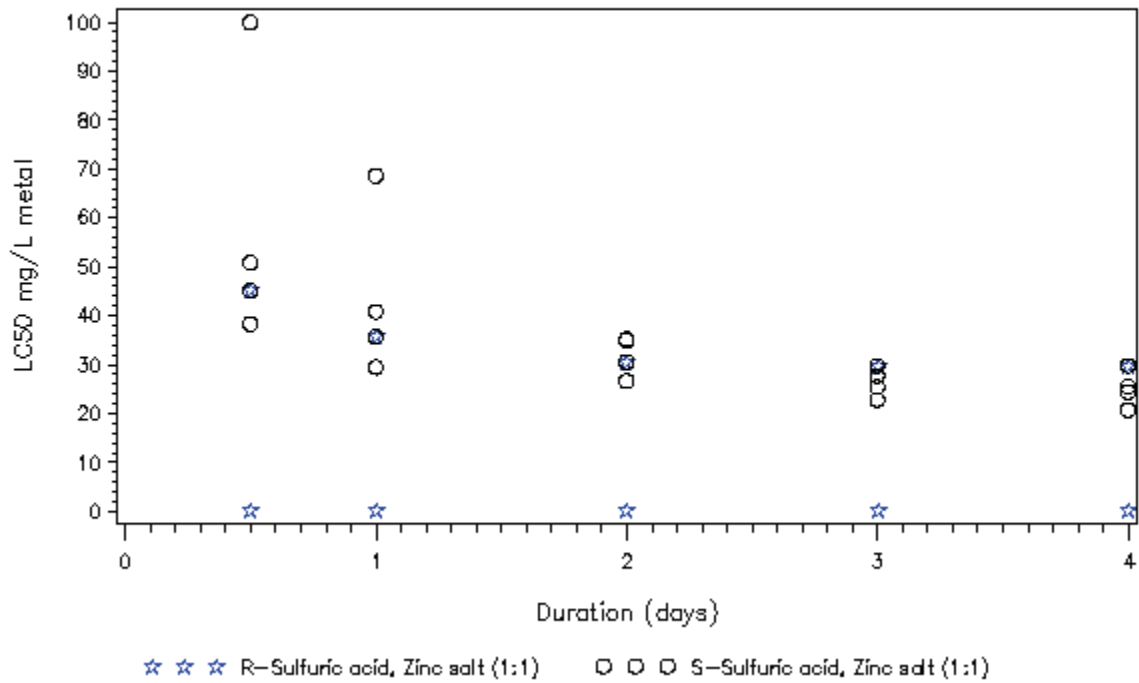


S – Static Test, F – Flowthrough Test, R –Renewal Test

Channa marulius exposed to Zinc at T>15C in very hard water

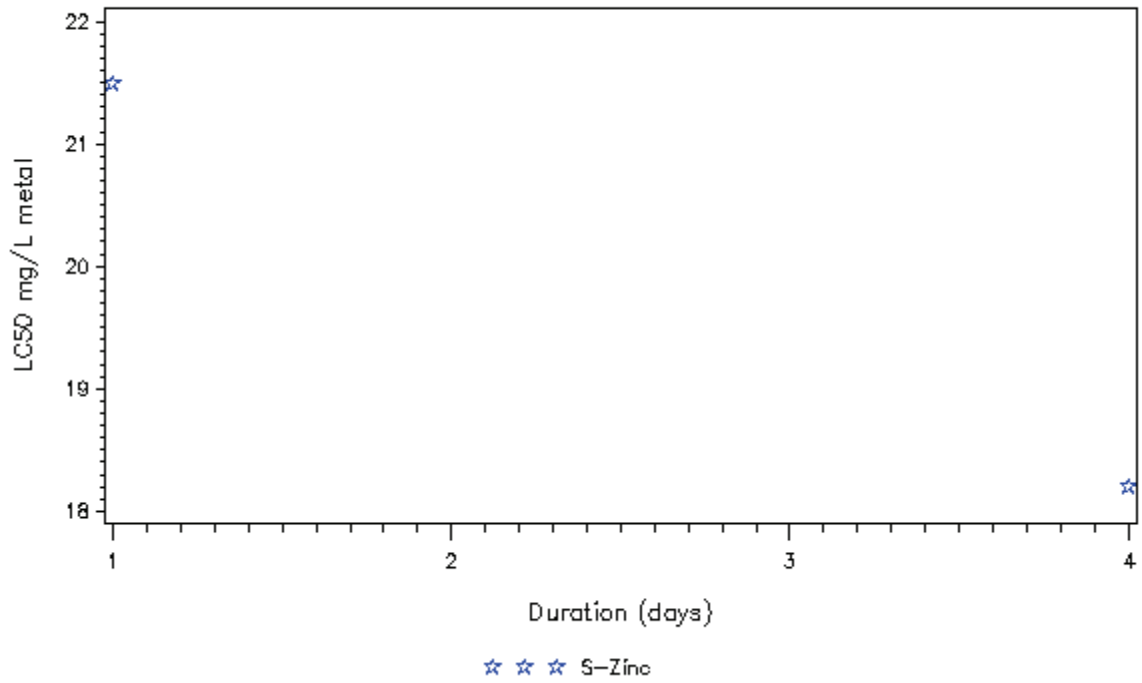


Channa punctata exposed to Zinc at T>15C in very hard water

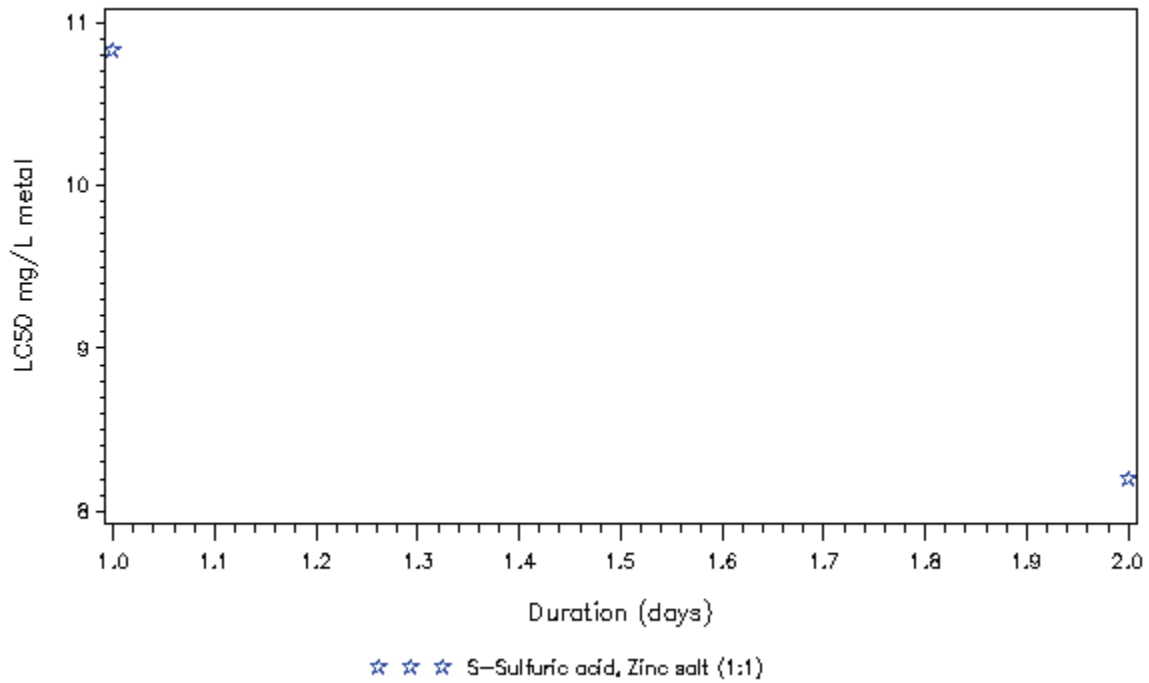


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chironomus exposed to Zinc at T>15C in soft water

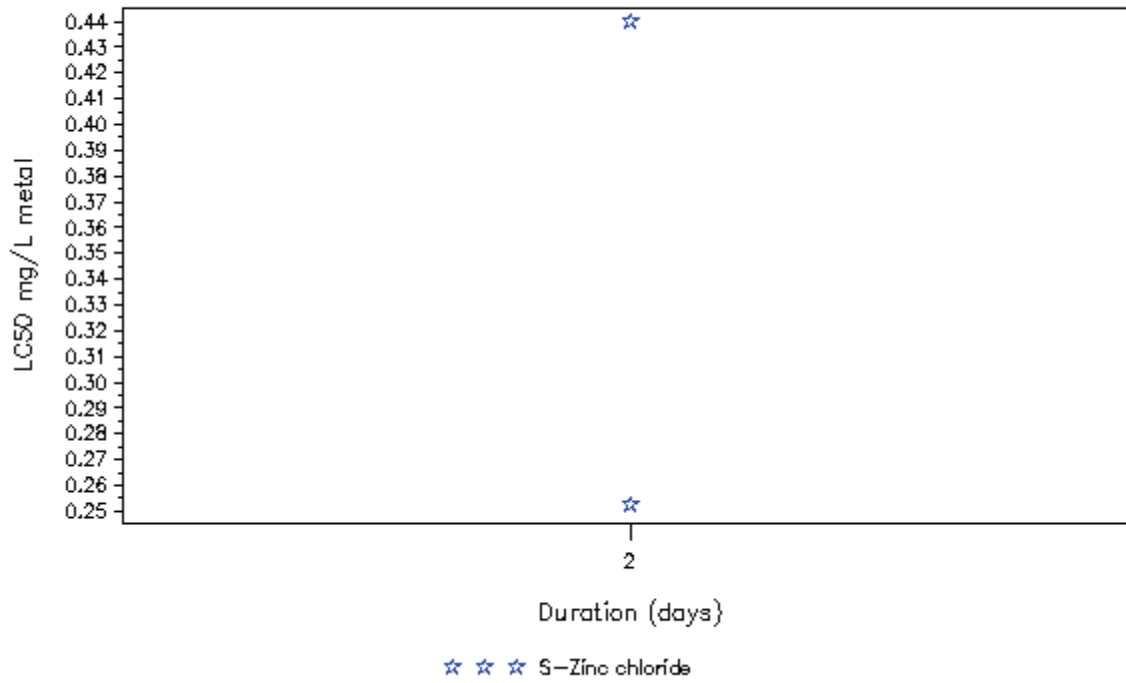


Chironomus tentans exposed to Zinc at T<=15C in soft water

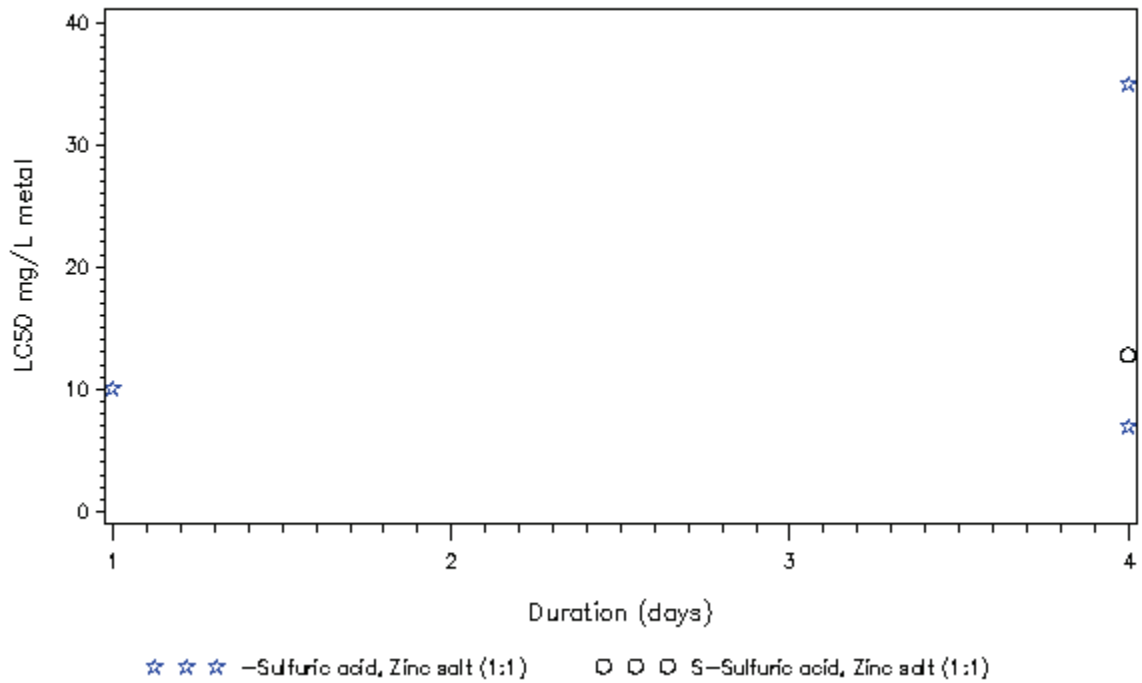


S – Static Test, F – Flowthrough Test, R –Renewal Test

Chydorus sphaericus exposed to Zinc at T>15C in very soft water

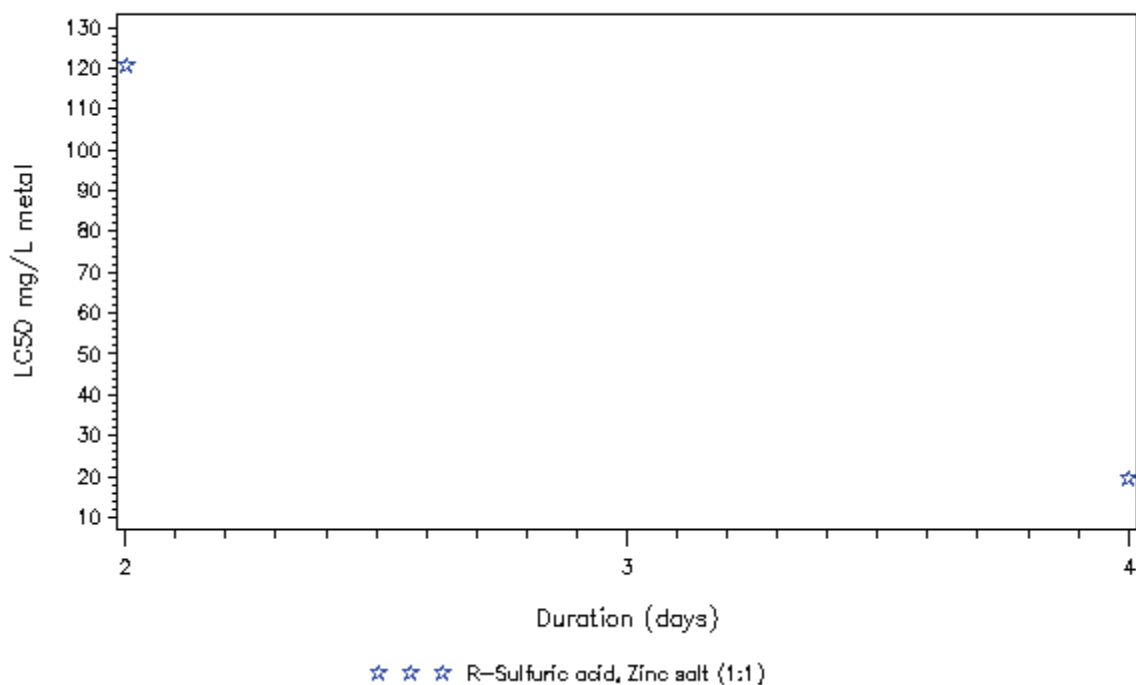


Cirrhinus mrigala exposed to Zinc at T>15C in moderate water

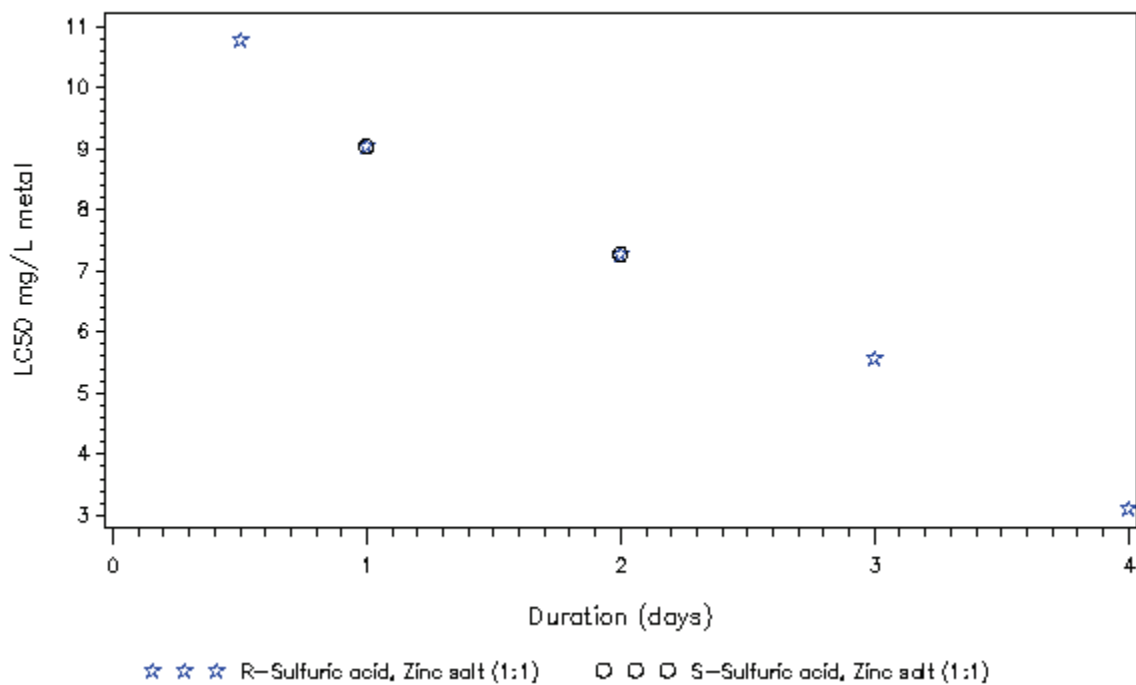


S – Static Test, F – Flowthrough Test, R –Renewal Test

Crangonyx pseudogracilis exposed to Zinc at T<=15C in soft water

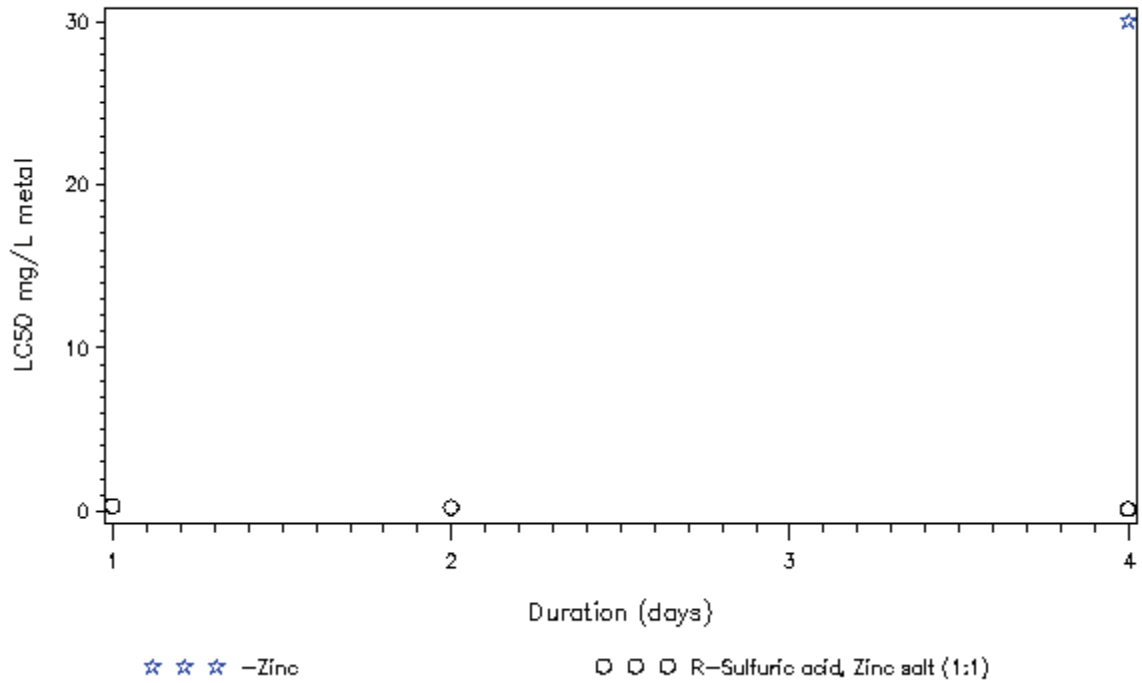


Cyprinus carpio exposed to Zinc at T<=15C in soft water

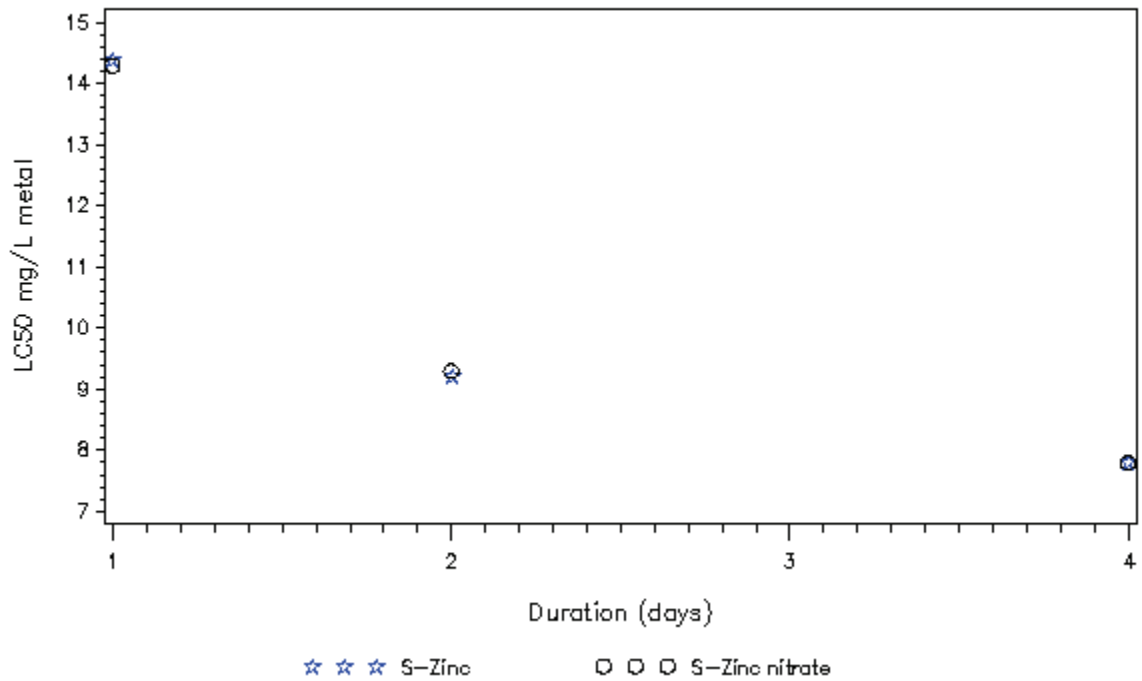


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Zinc at T>15C in moderate water

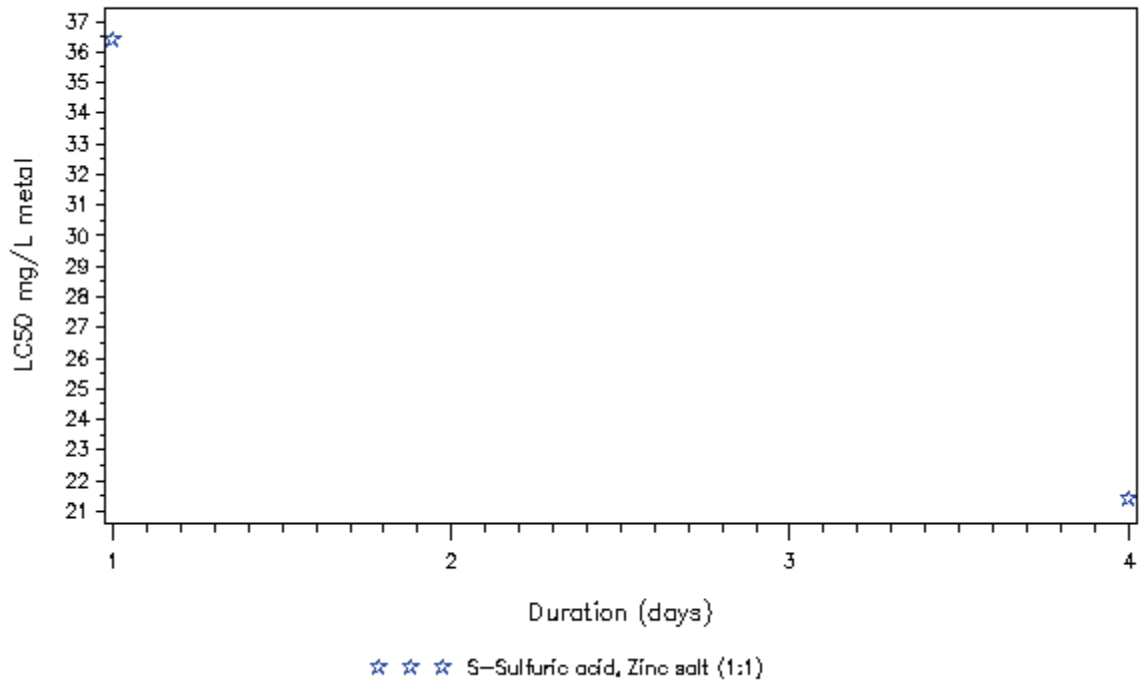


Cyprinus carpio exposed to Zinc at T>15C in soft water

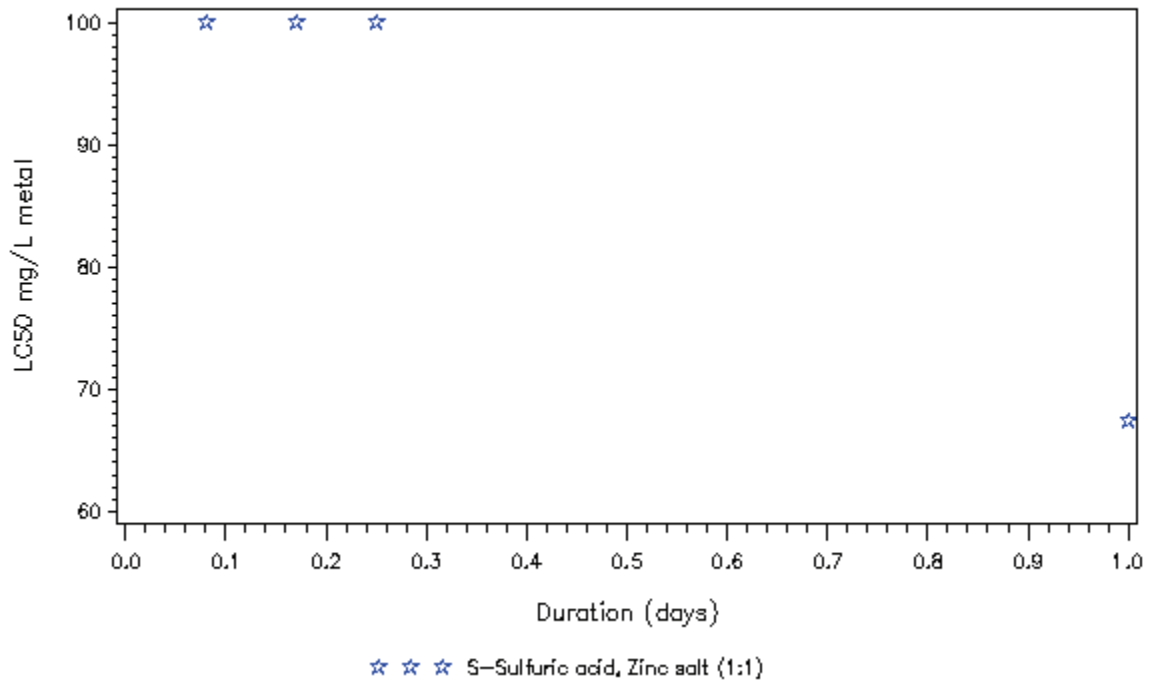


S – Static Test, F – Flowthrough Test, R –Renewal Test

Cyprinus carpio exposed to Zinc at T>15C in very soft water

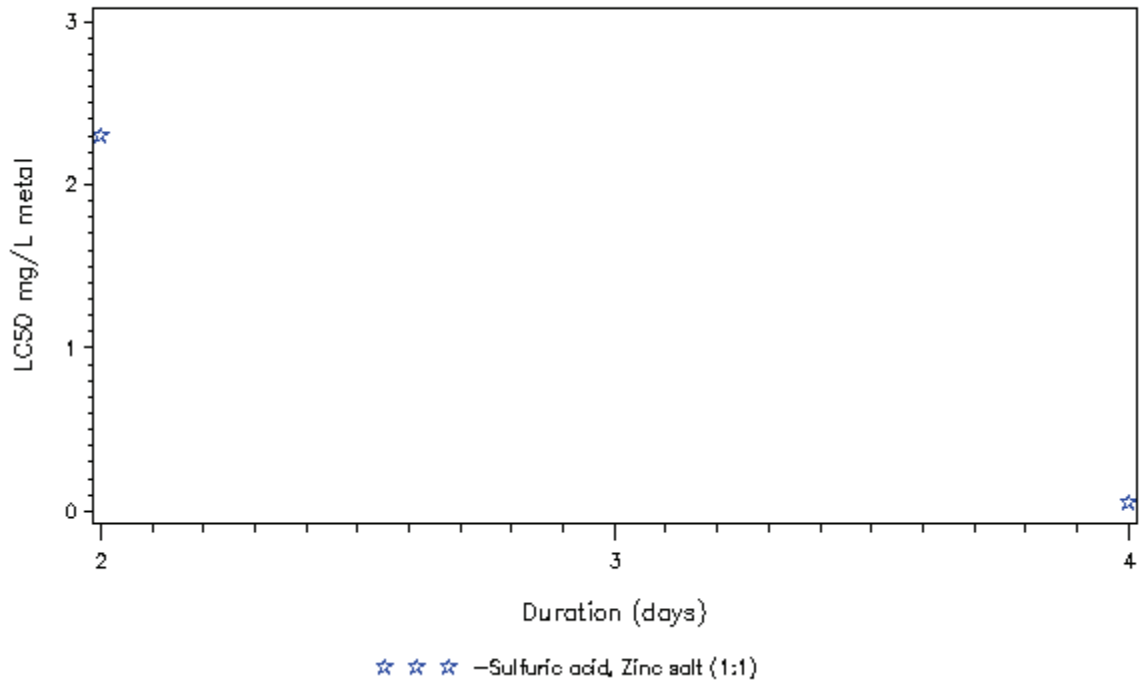


Danio rerio exposed to Zinc at T>15C in hard water

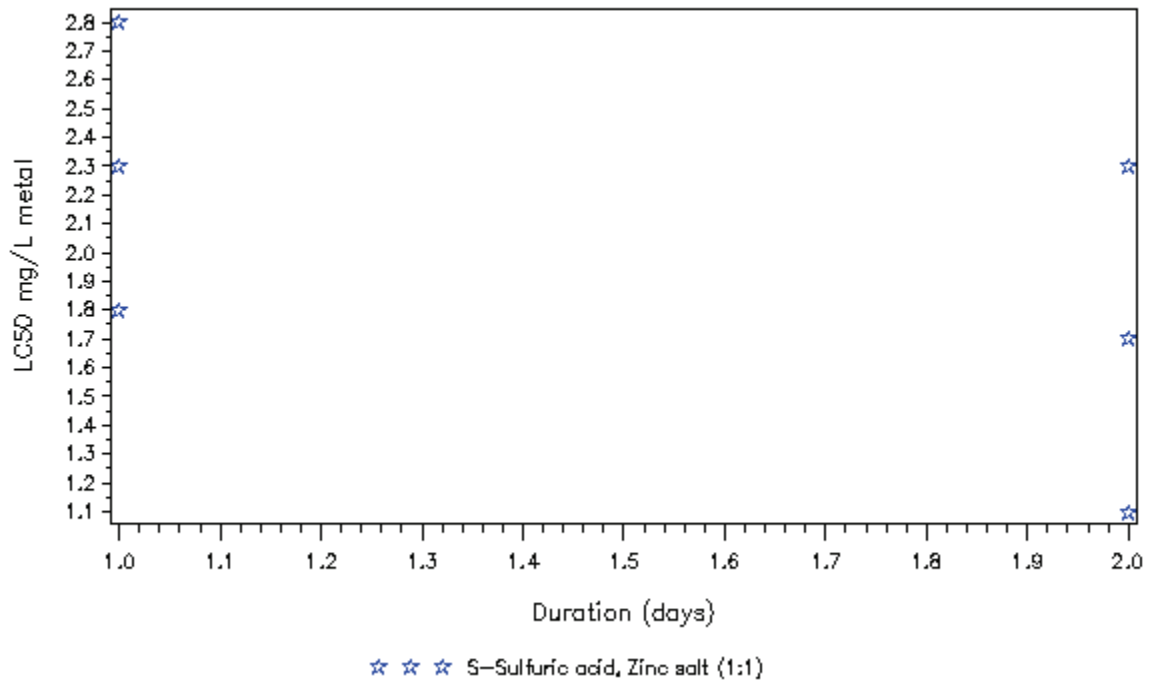


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia carinata exposed to Zinc at T>15C in soft water

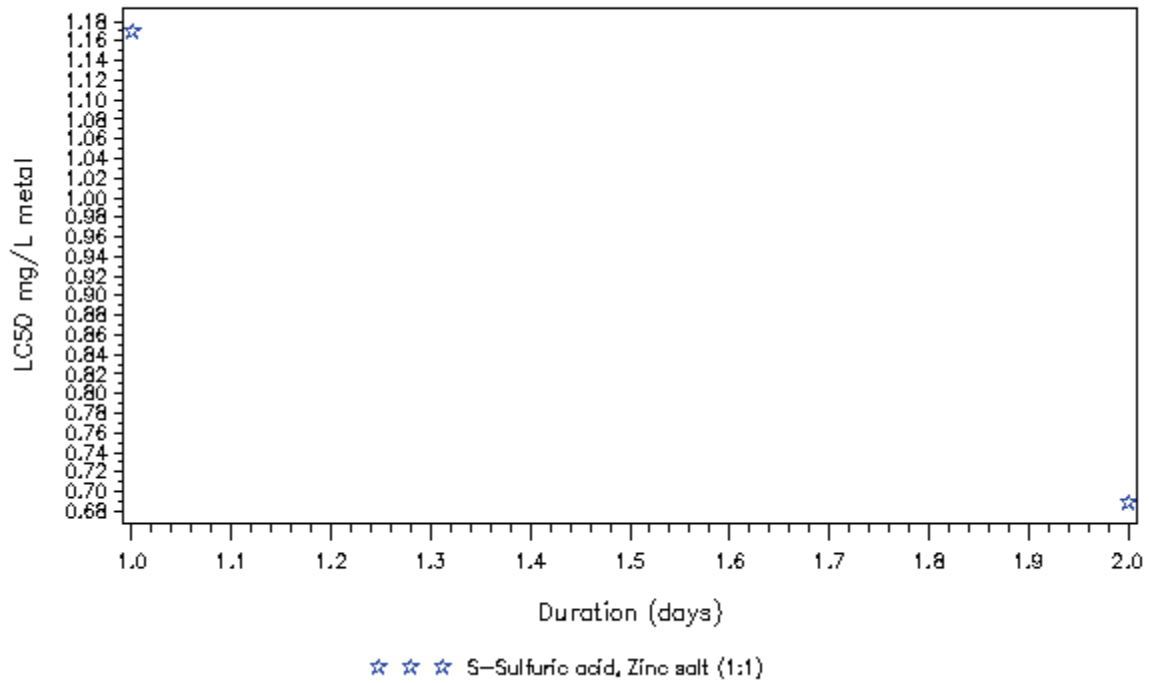


Daphnia magna exposed to Zinc at T<=15C in soft water

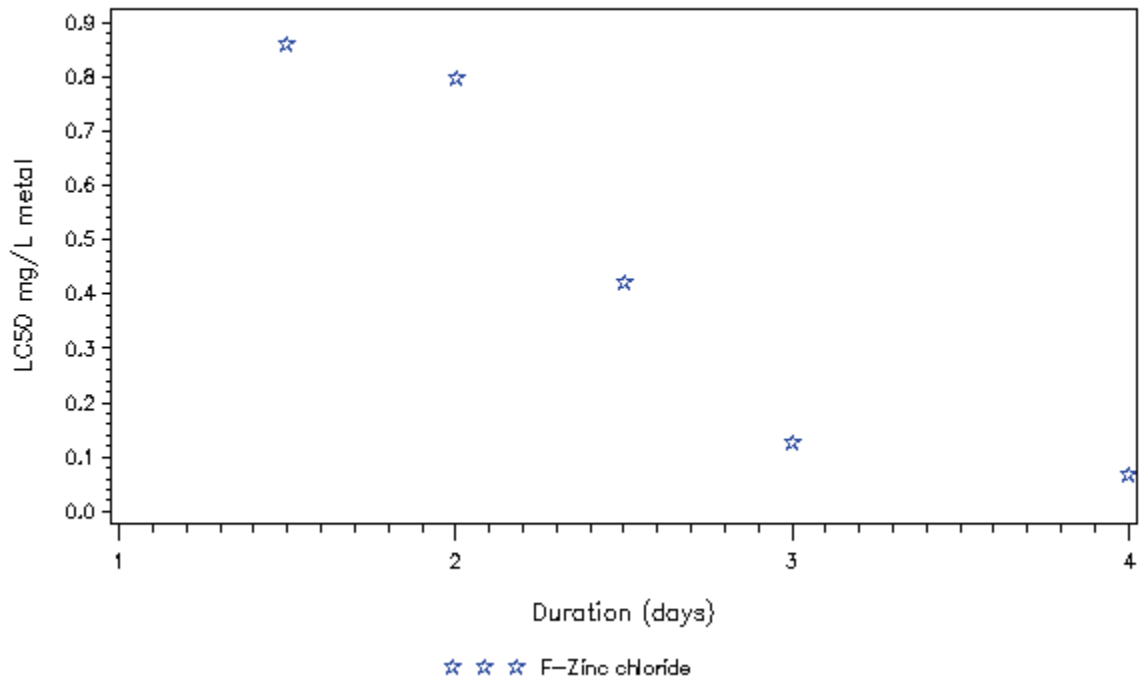


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Zinc at T<=15C in very hard water

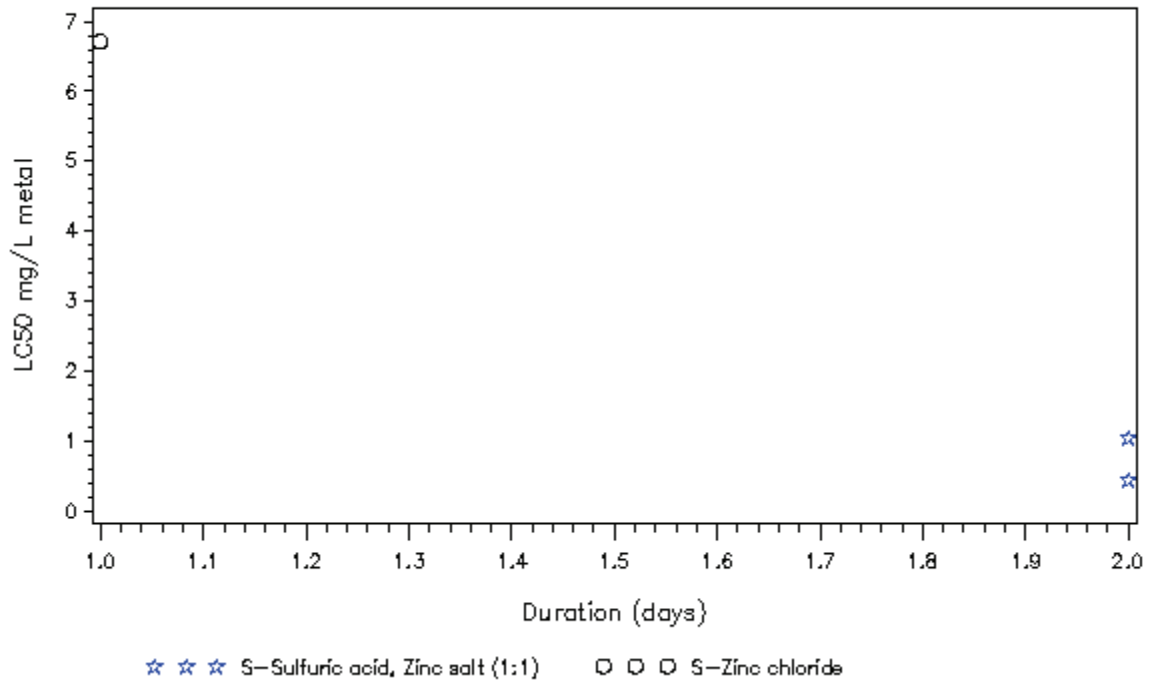


Daphnia magna exposed to Zinc at T>15C in hard water

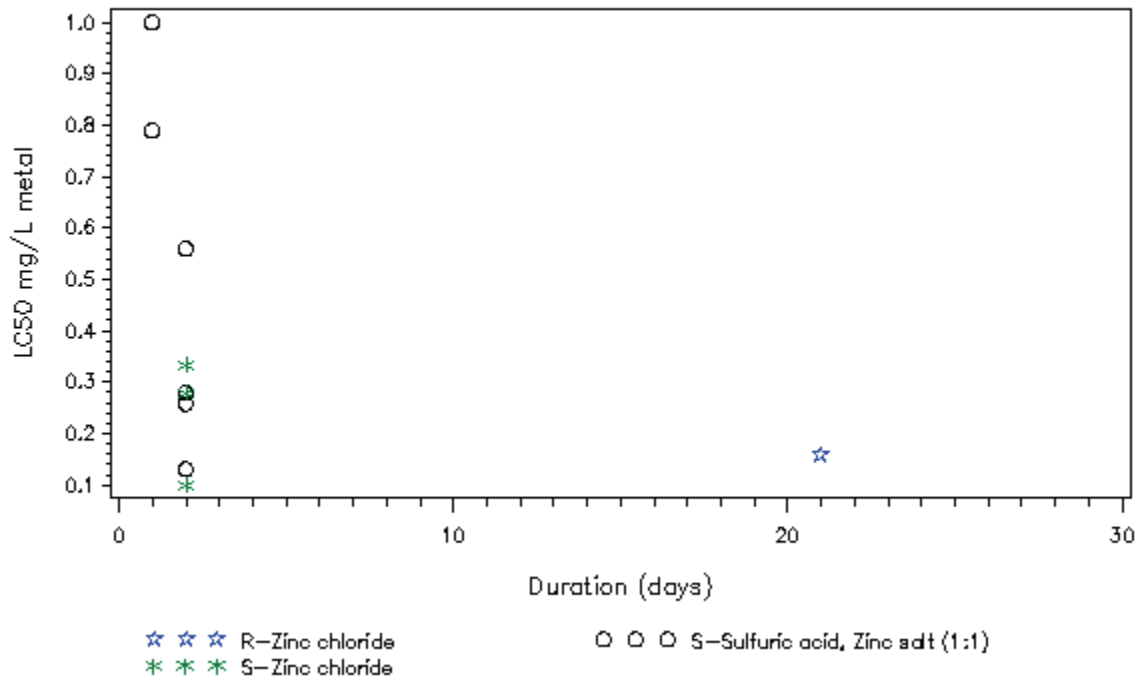


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Zinc at T>15C in moderate water

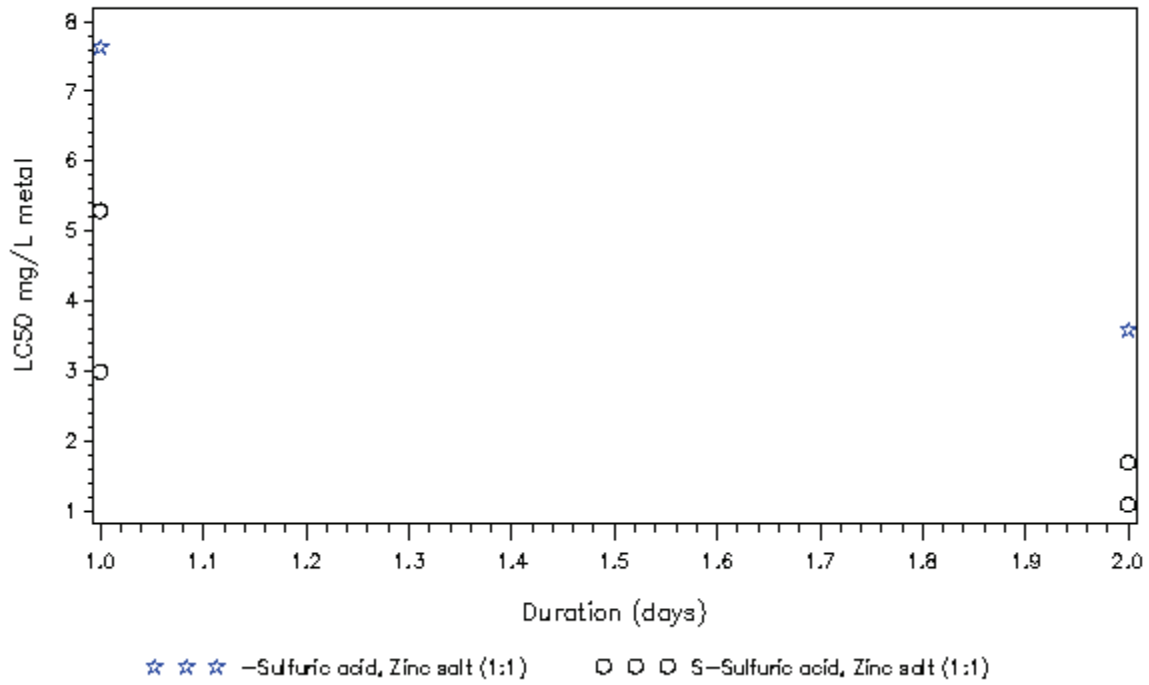


Daphnia magna exposed to Zinc at T>15C in soft water

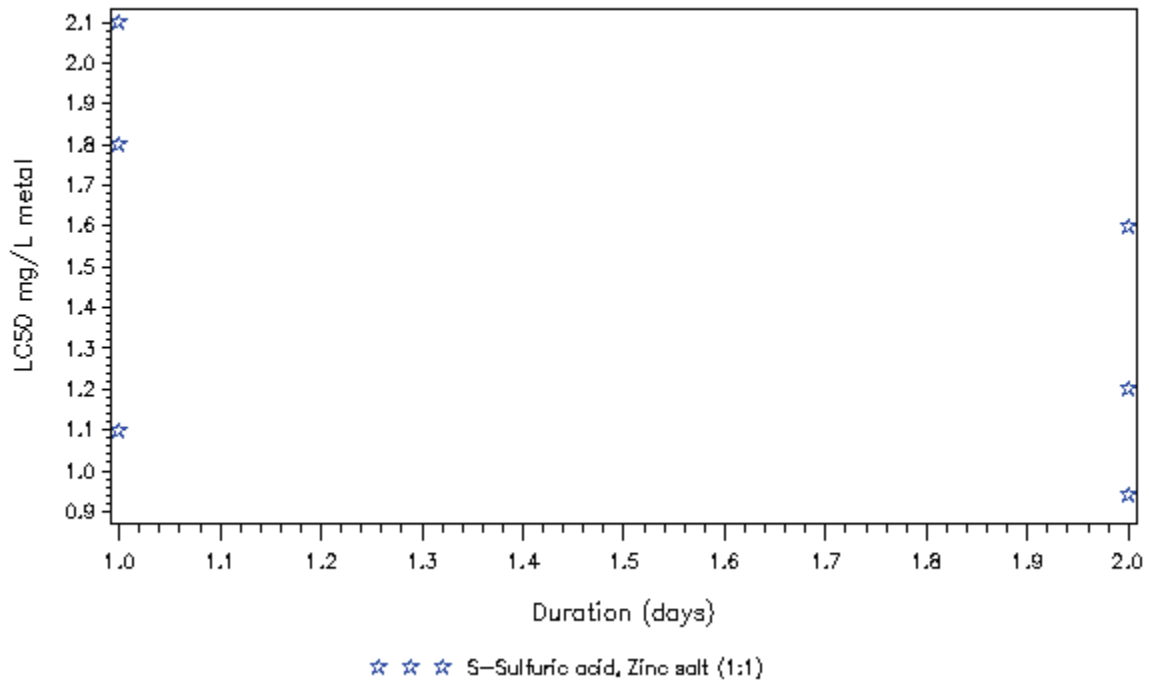


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia magna exposed to Zinc at T>15C in very hard water

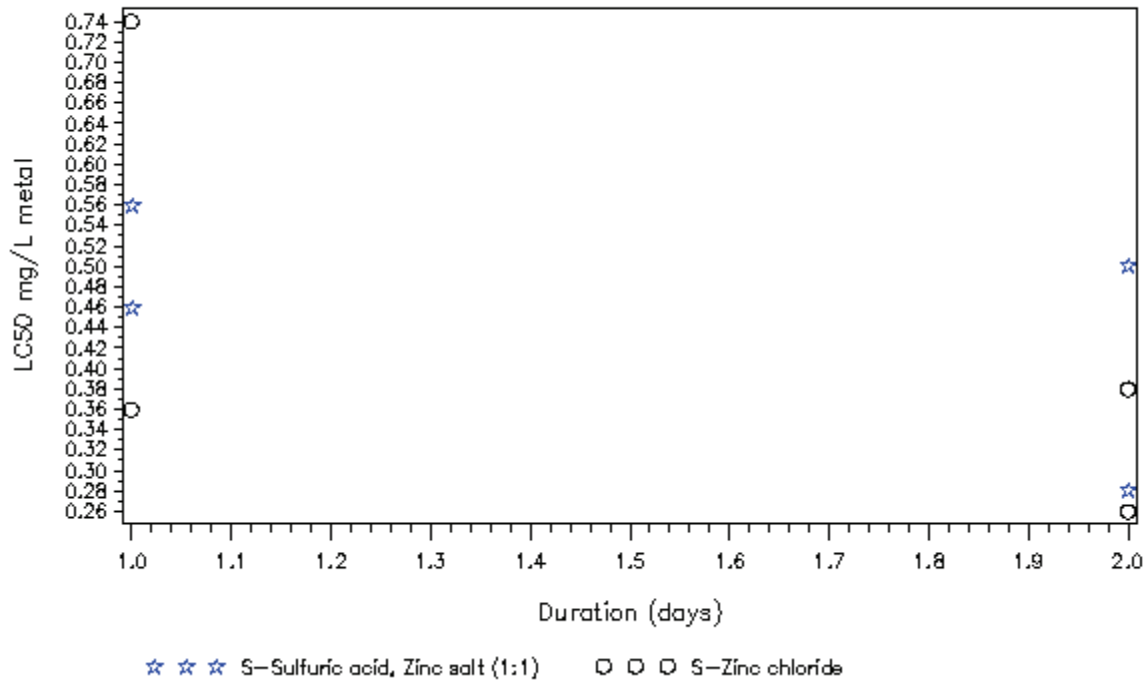


Daphnia pulex exposed to Zinc at T<=15C in soft water

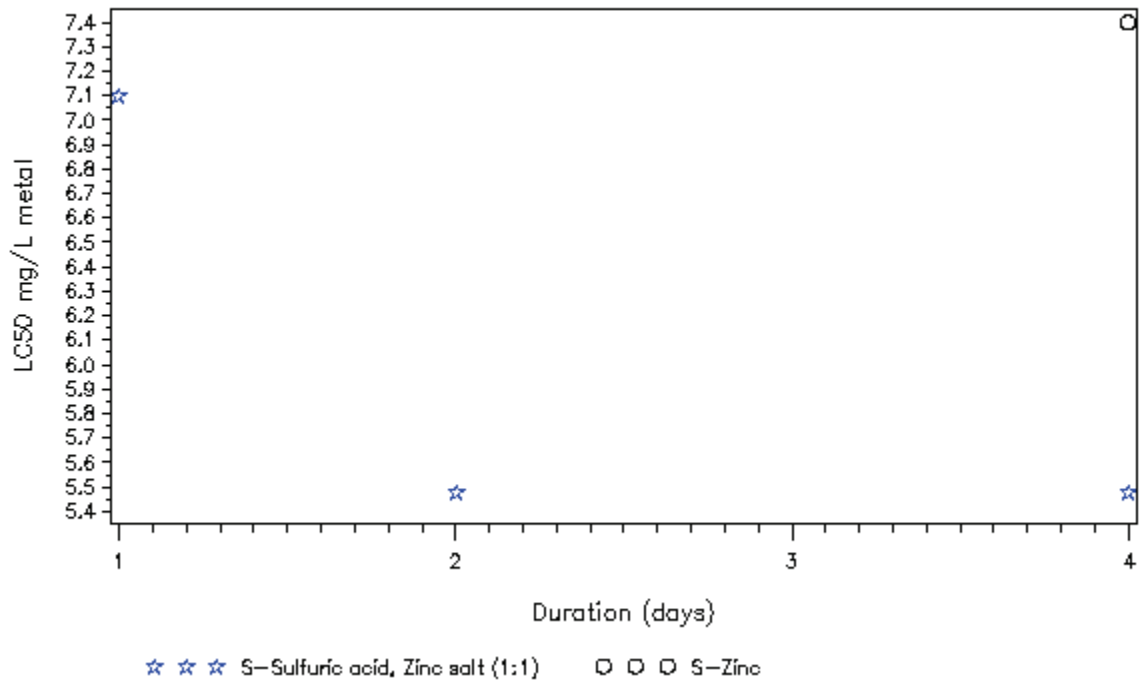


S – Static Test, F – Flowthrough Test, R –Renewal Test

Daphnia pulex exposed to Zinc at T>15C in soft water

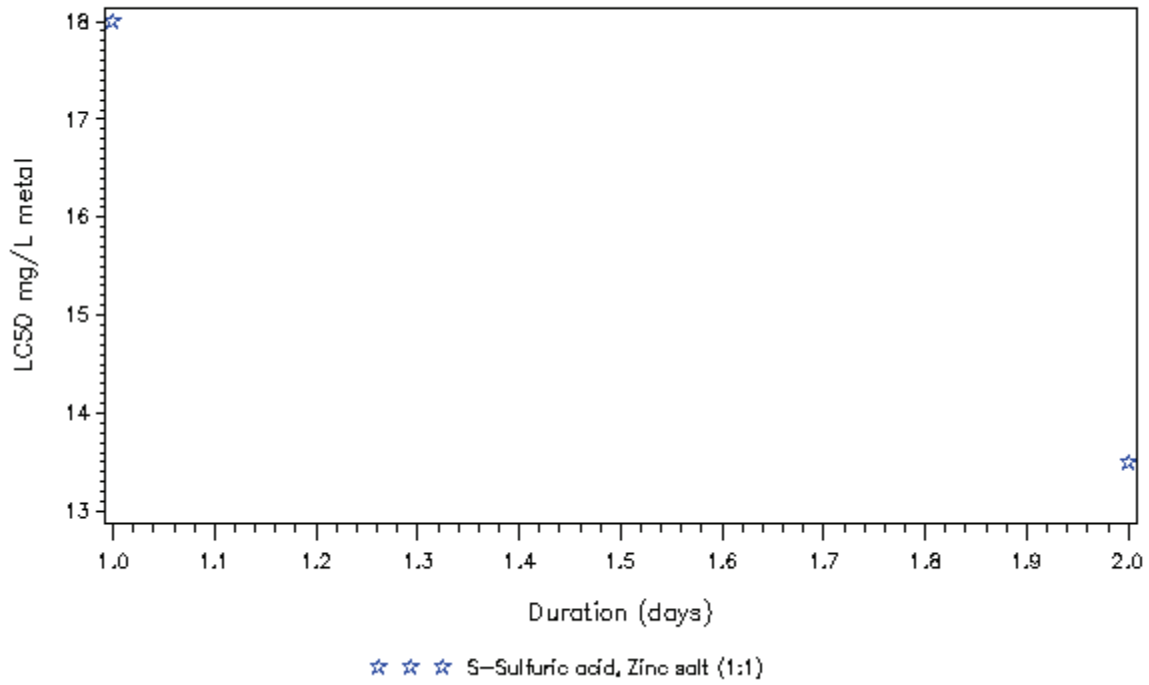


Dugesia tigrina exposed to Zinc at T>15C in soft water

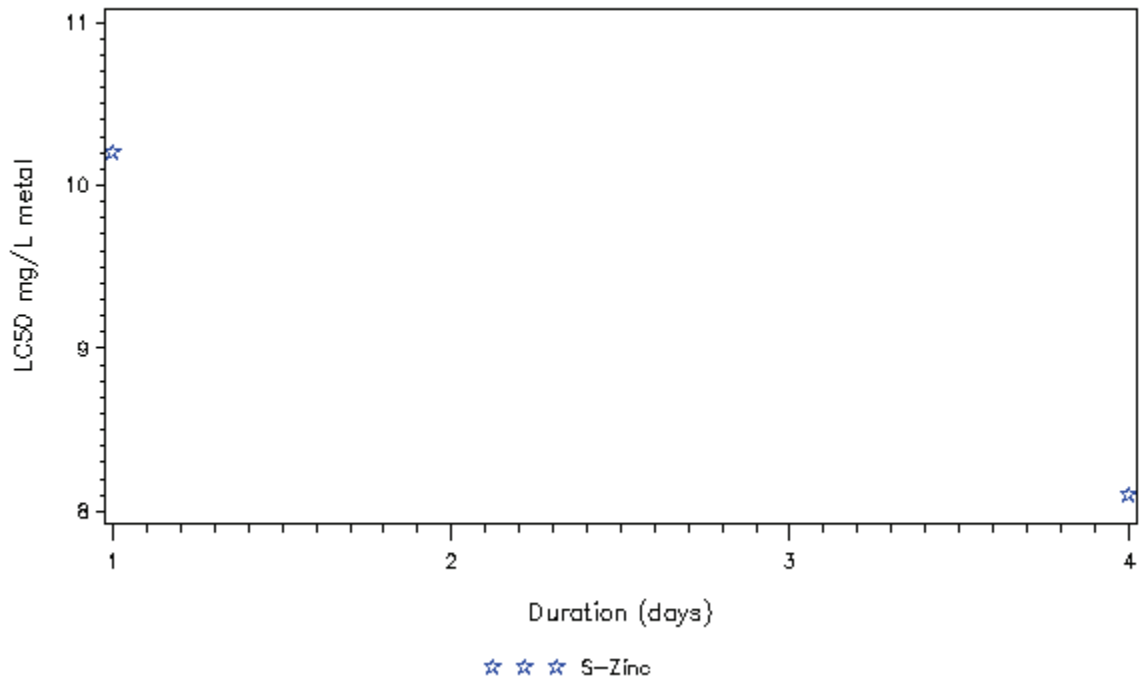


S – Static Test, F – Flowthrough Test, R –Renewal Test

Elimia livescens exposed to Zinc at T>15C in hard water

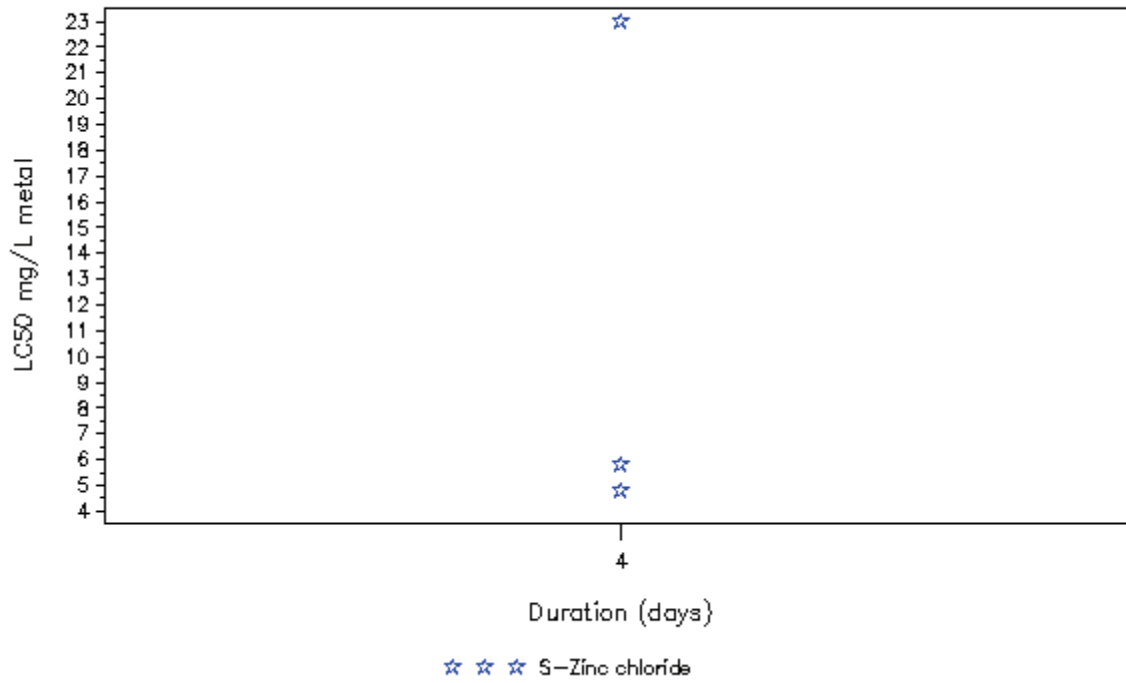


Gammarus exposed to Zinc at T>15C in soft water

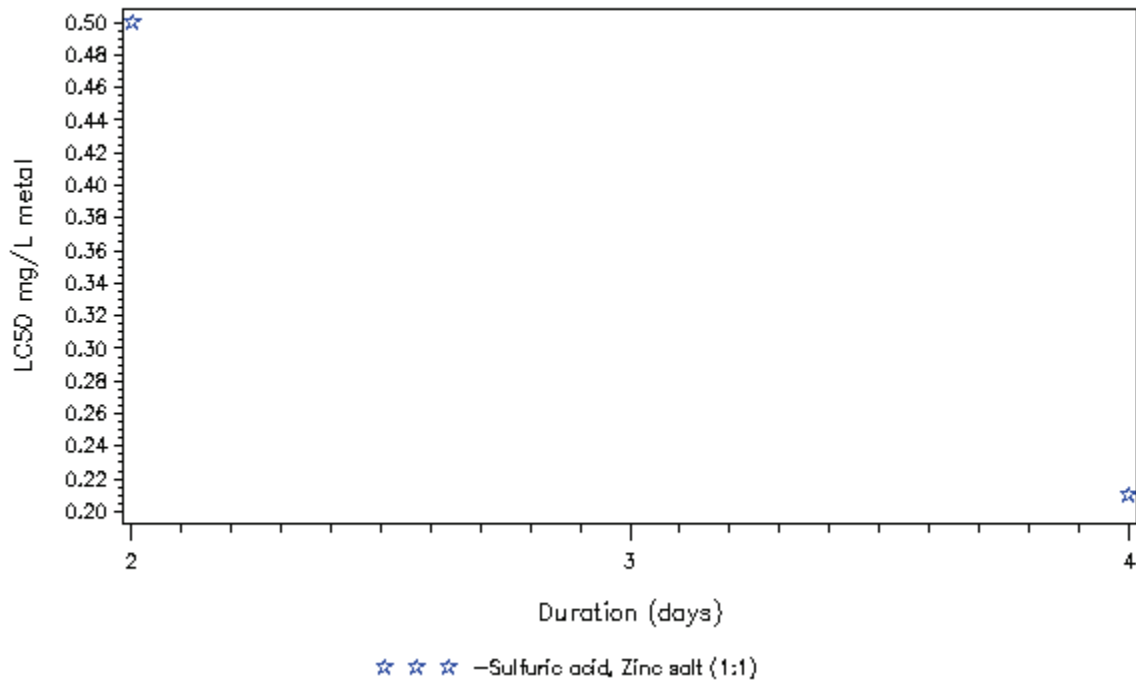


S – Static Test, F – Flowthrough Test, R –Renewal Test

Gila elegans exposed to Zinc at T>15C in very hard water

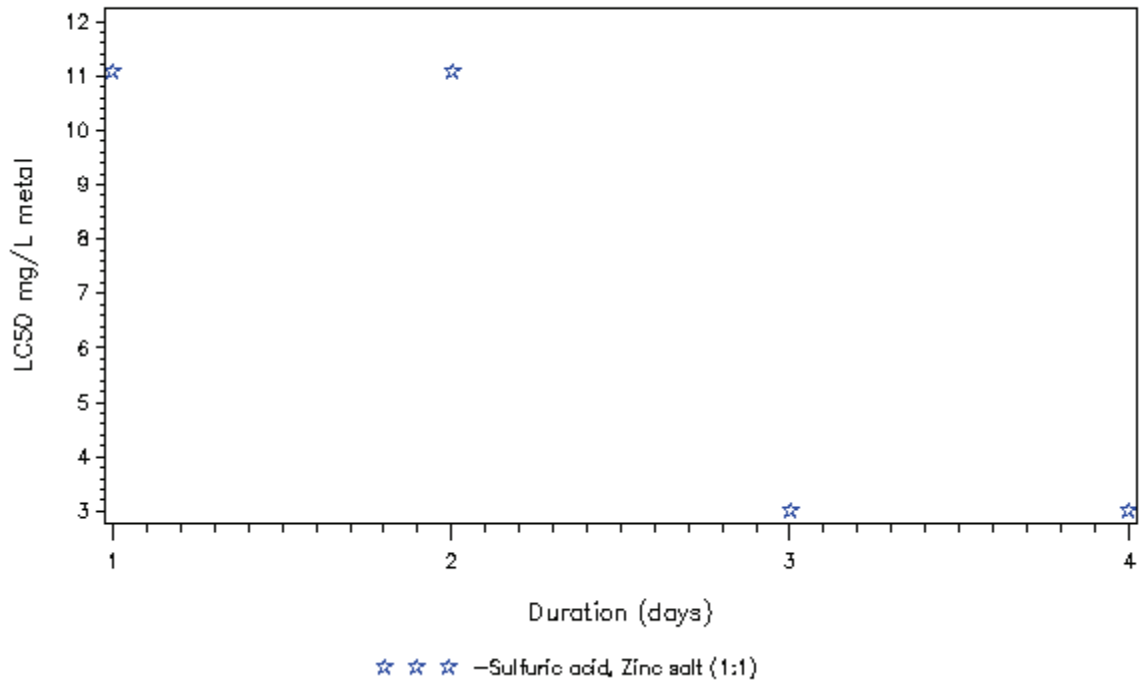


Heliodiaptomus viduus exposed to Zinc at T>15C in soft water

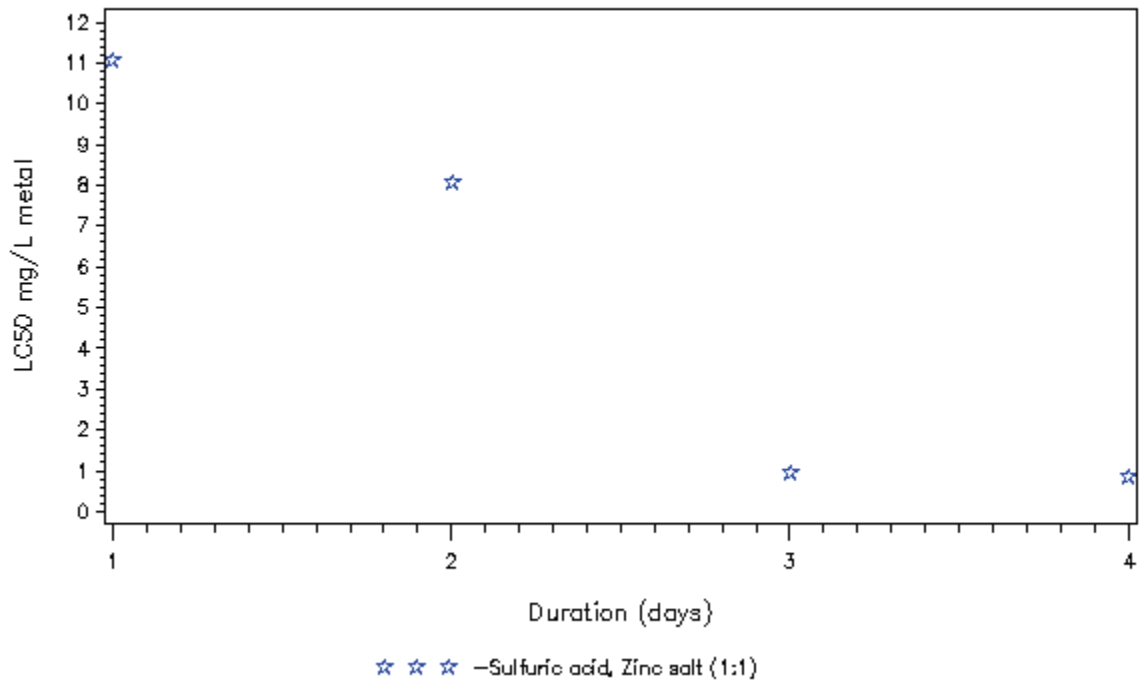


S – Static Test, F – Flowthrough Test, R –Renewal Test

Helisoma campanulatum exposed to Zinc at T<=15C in moderate water

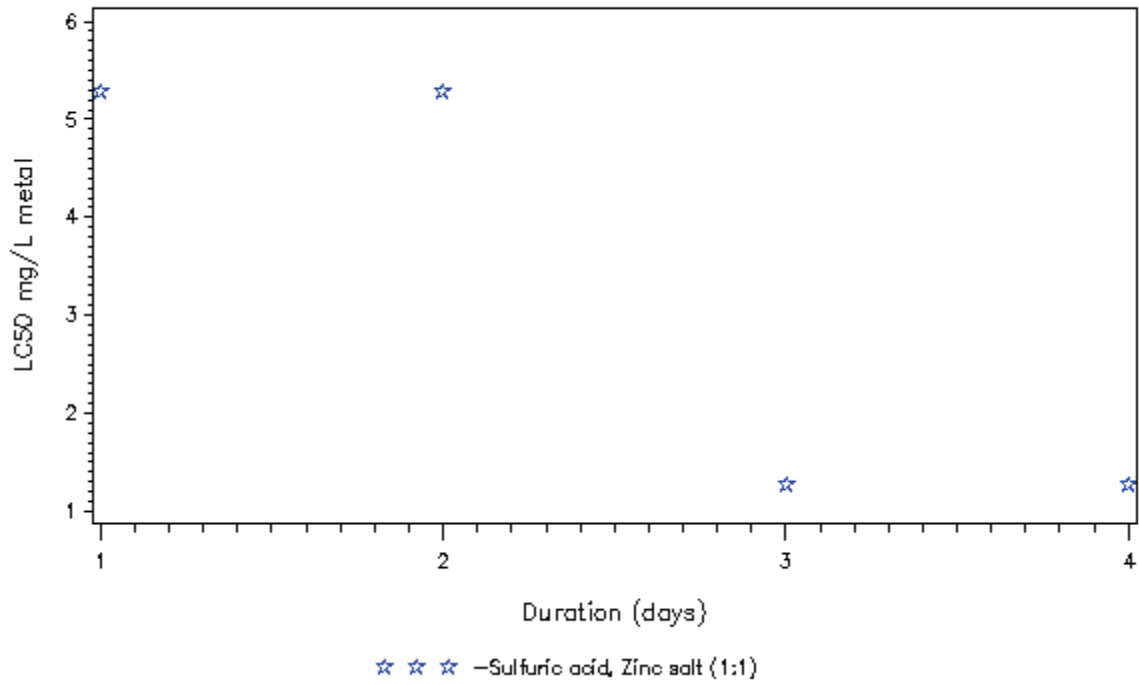


Helisoma campanulatum exposed to Zinc at T<=15C in soft water

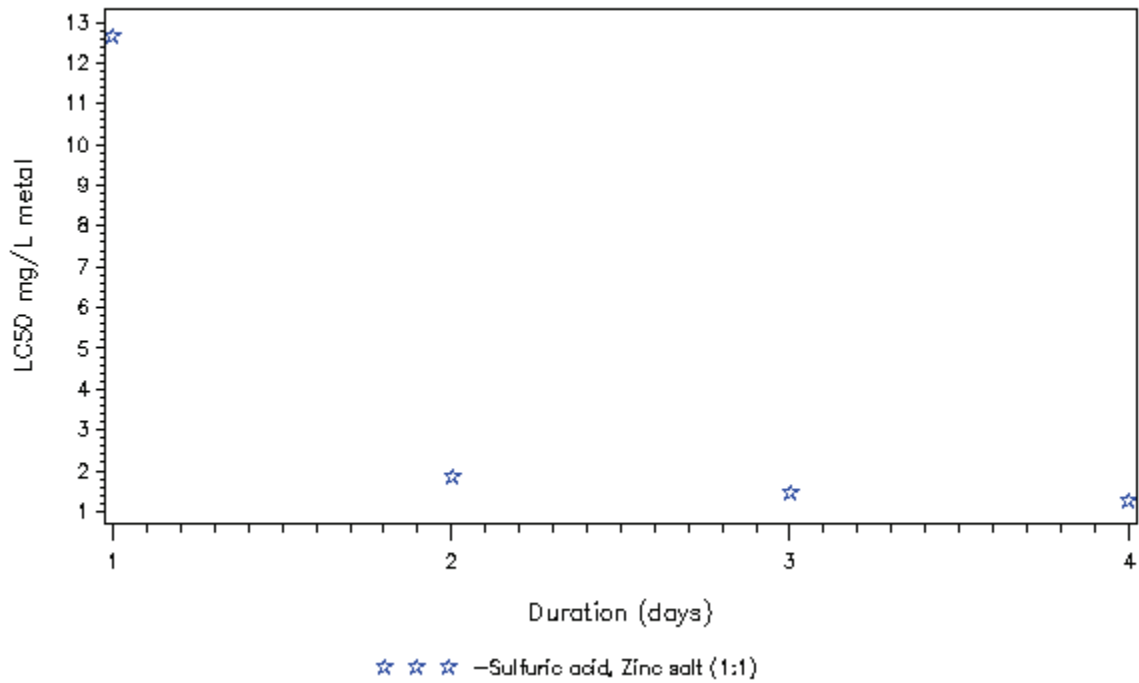


S – Static Test, F – Flowthrough Test, R –Renewal Test

Helisoma campanulatum exposed to Zinc at T>15C in moderate water

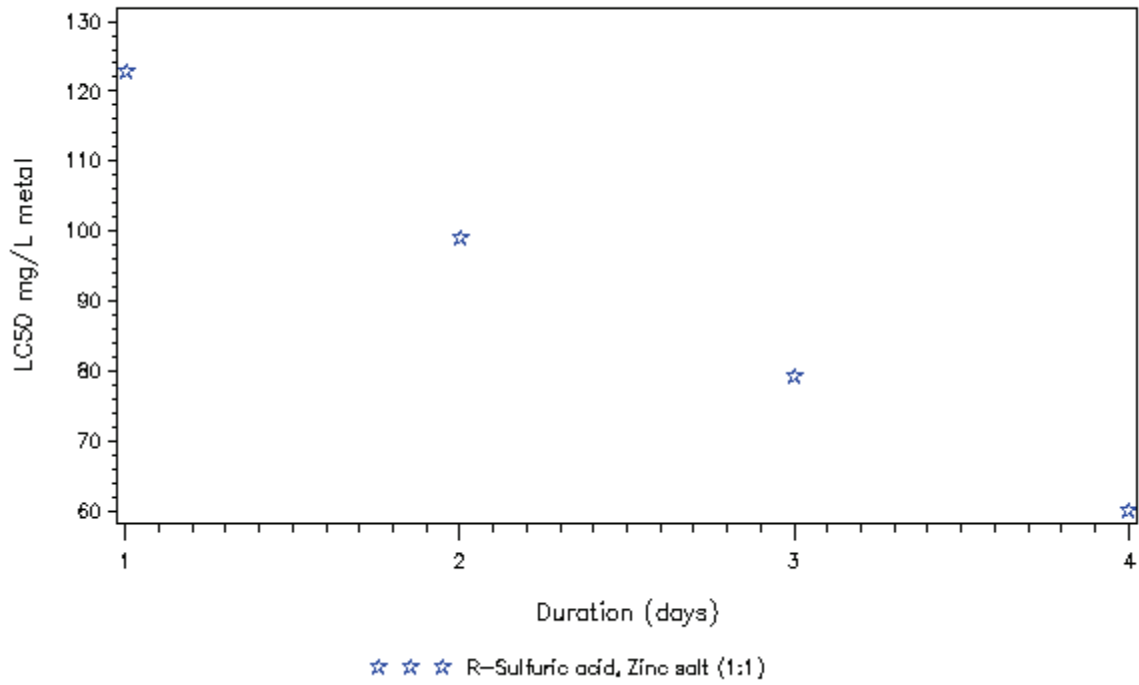


Helisoma campanulatum exposed to Zinc at T>15C in soft water

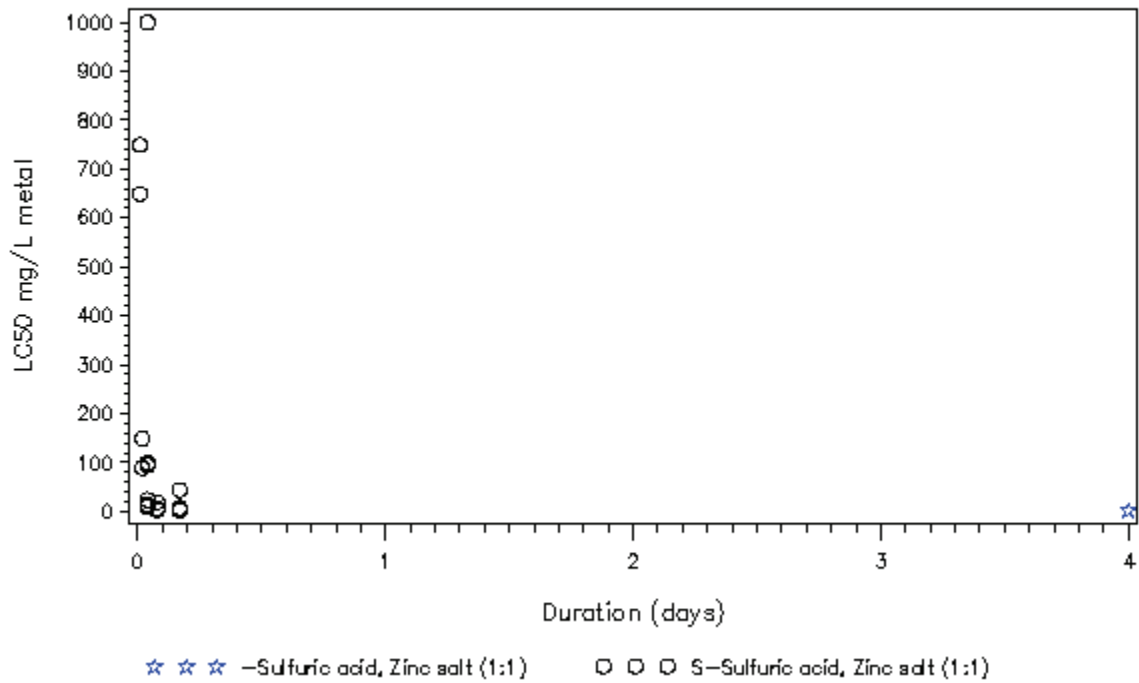


S – Static Test, F – Flowthrough Test, R –Renewal Test

Heteropneustes fossilis exposed to Zinc at T>15C in very hard water

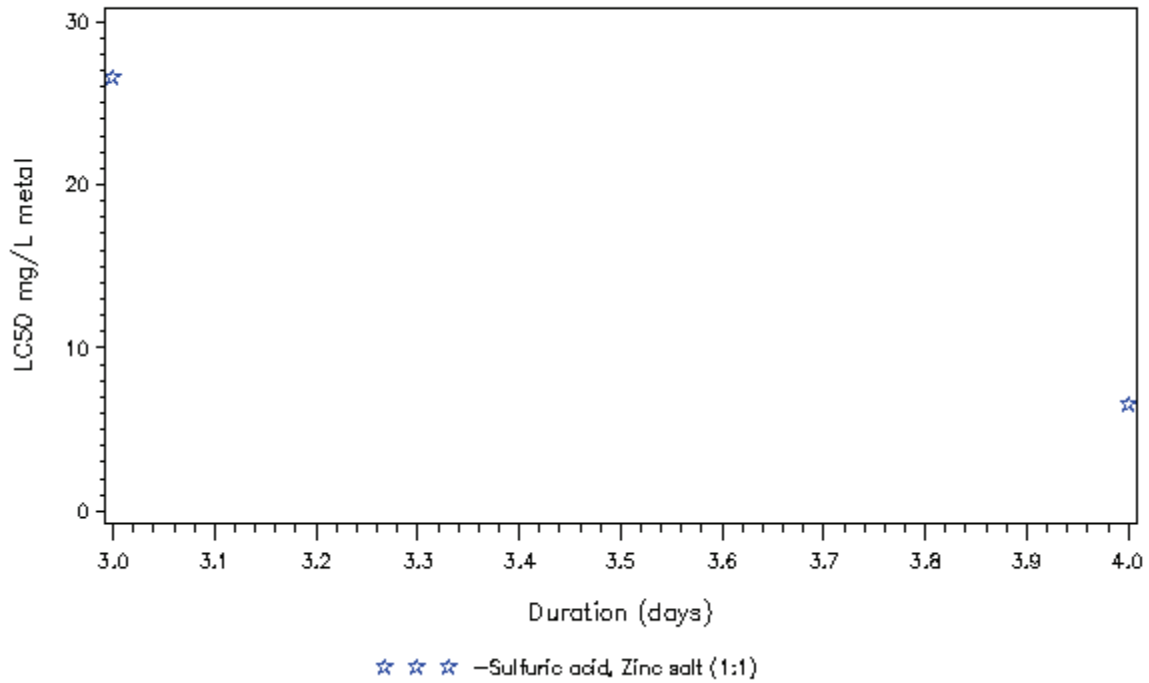


Hyalella azteca exposed to Zinc at T>15C in very hard water

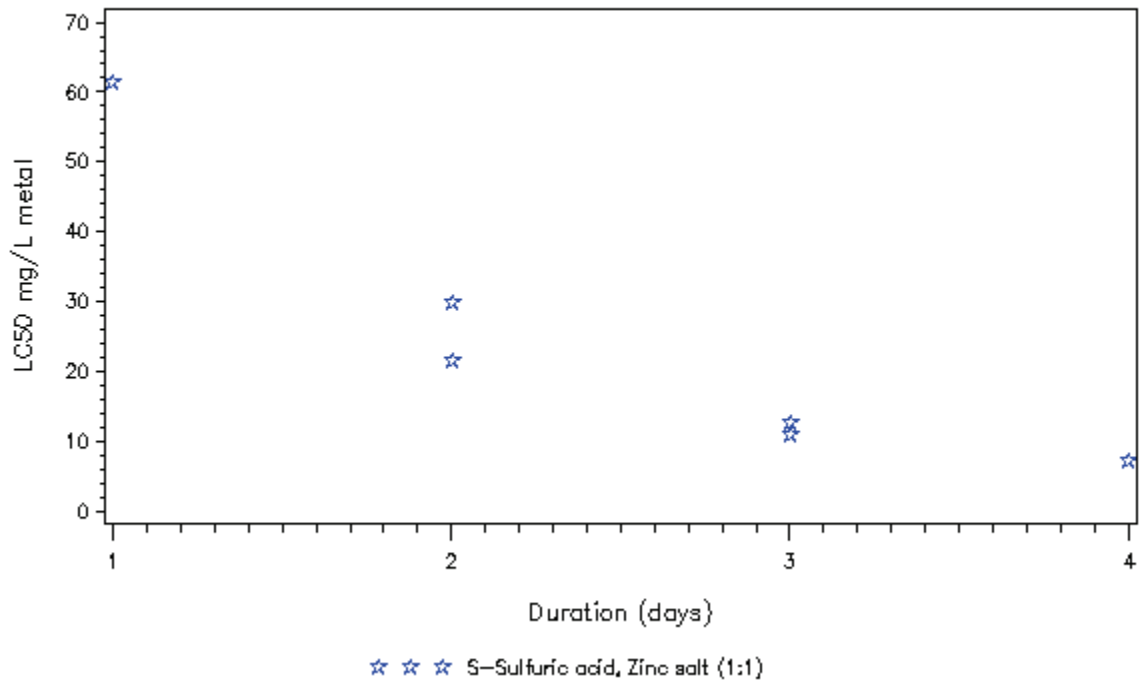


S – Static Test, F – Flowthrough Test, R –Renewal Test

Hydra vulgaris exposed to Zinc at T>15C in moderate water

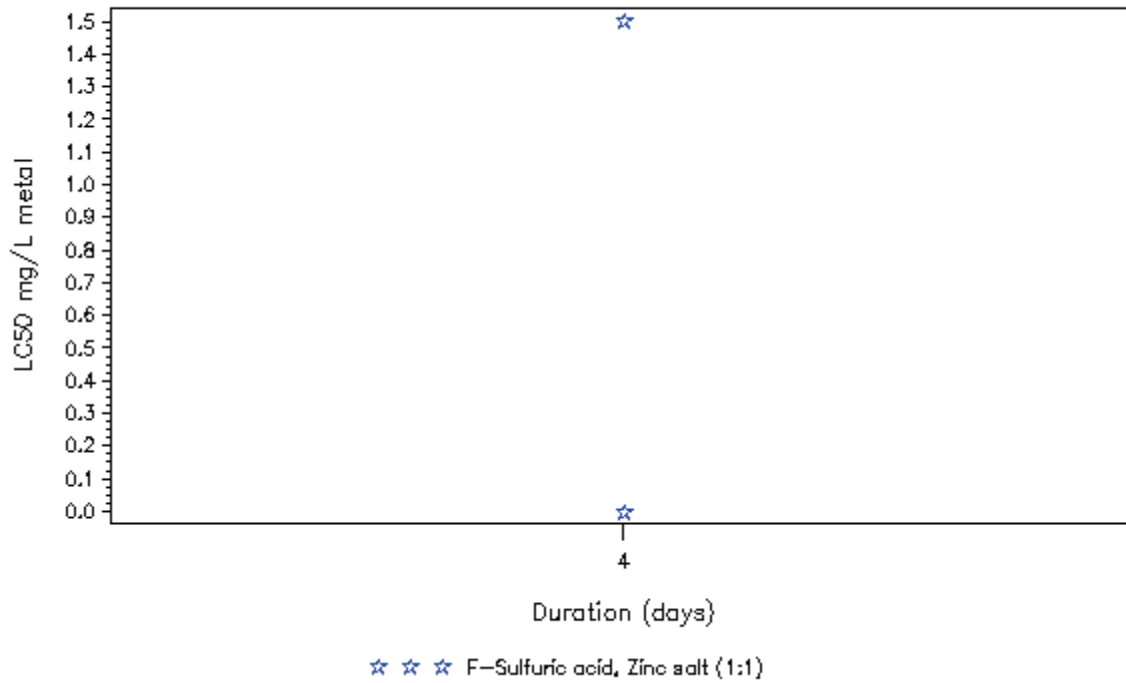


Hydra vulgaris exposed to Zinc at T>15C in very hard water

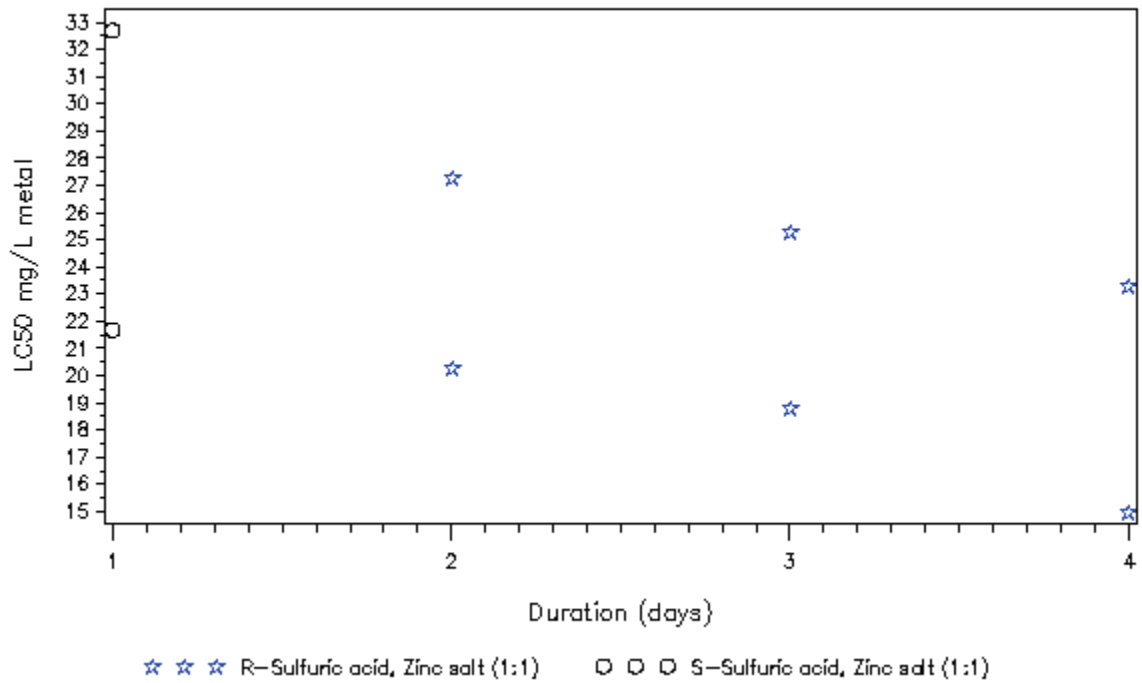


S – Static Test, F – Flowthrough Test, R –Renewal Test

Jordanella floridae exposed to Zinc at T>15C in soft water

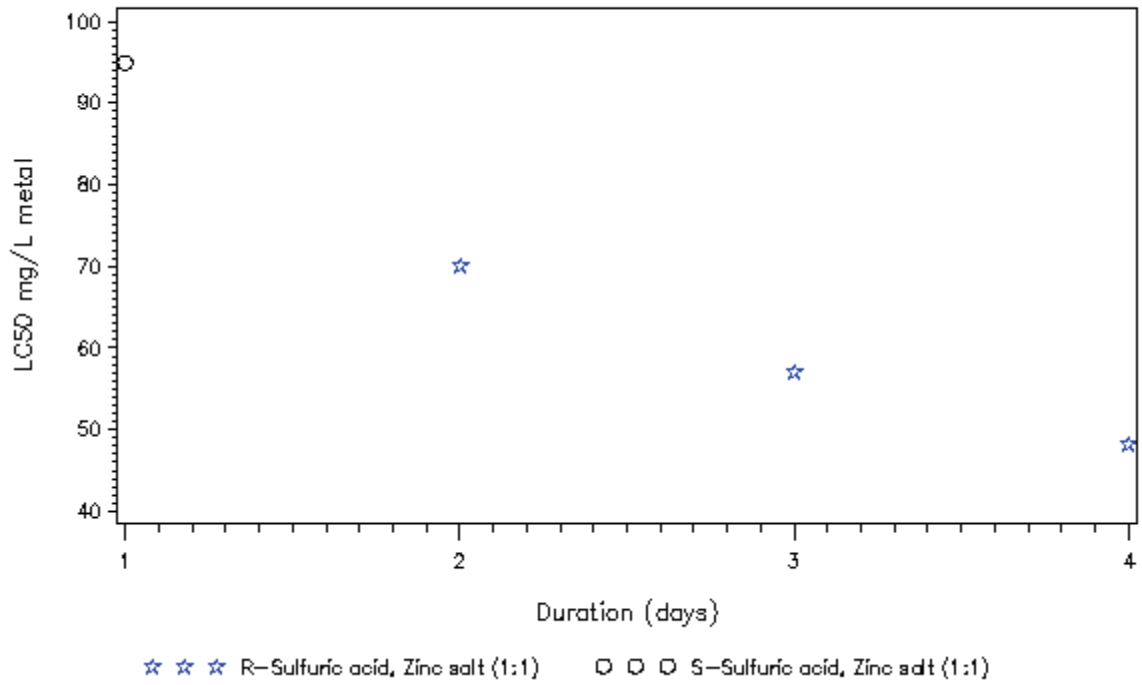


Lepidocephalichthyes guntea exposed to Zinc at T>15C in soft water

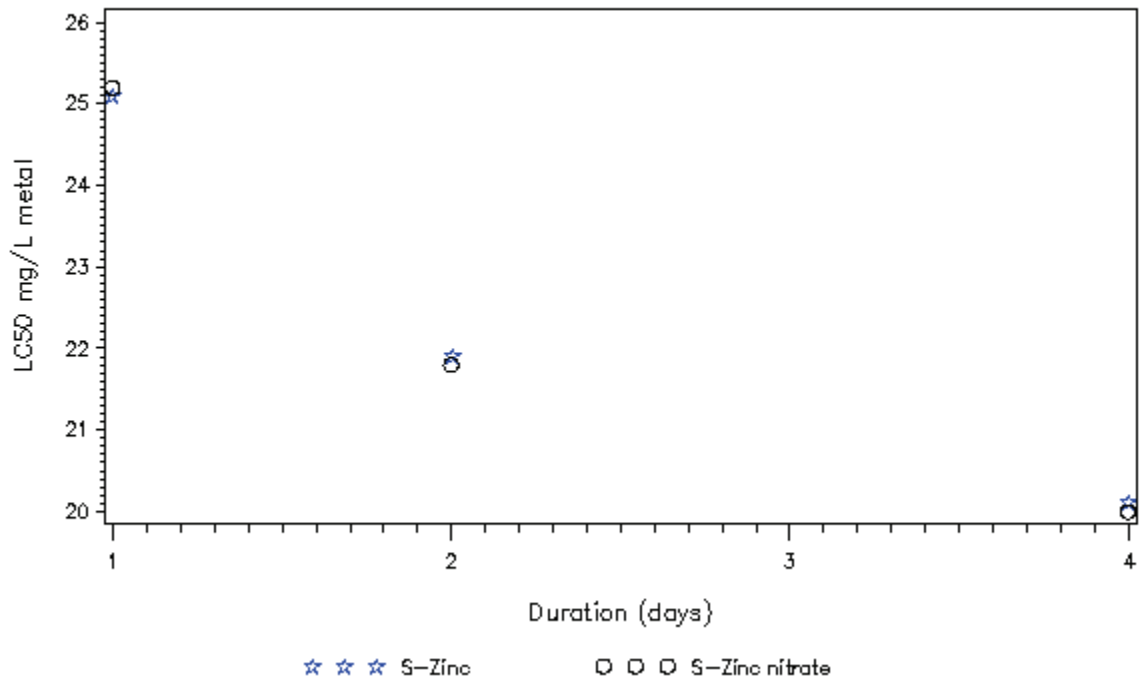


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepidocephalichthyes guntea exposed to Zinc at T>15C in very hard water

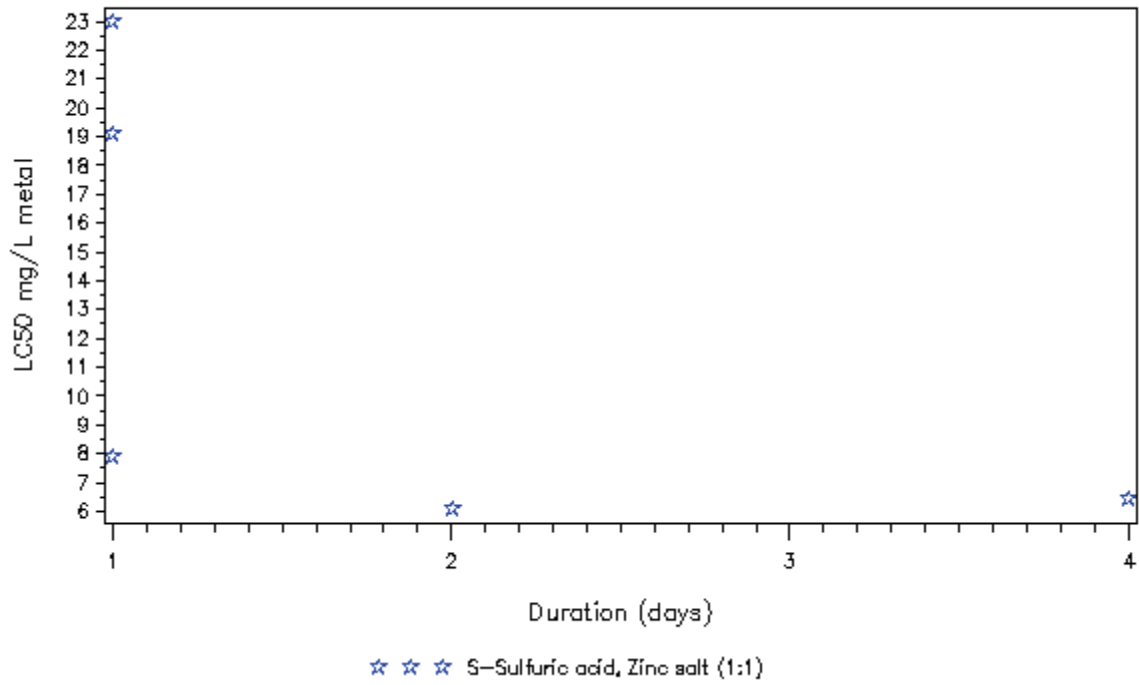


Lepomis gibbosus exposed to Zinc at T>15C in soft water

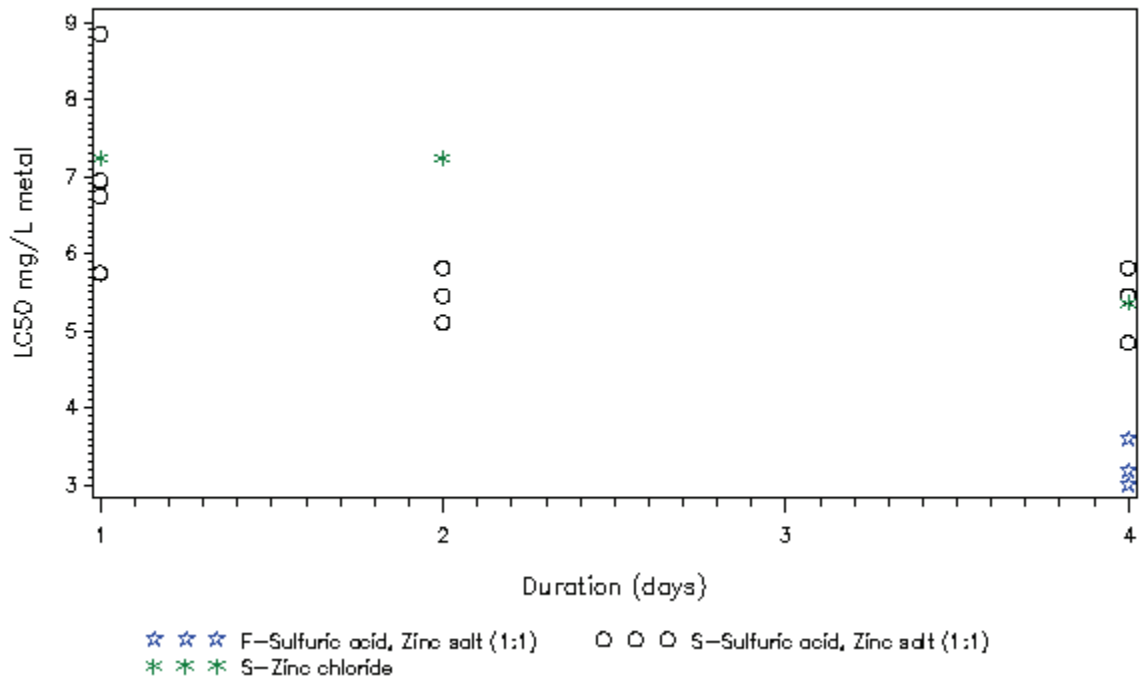


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis macrochirus exposed to Zinc at T<=15C in soft water

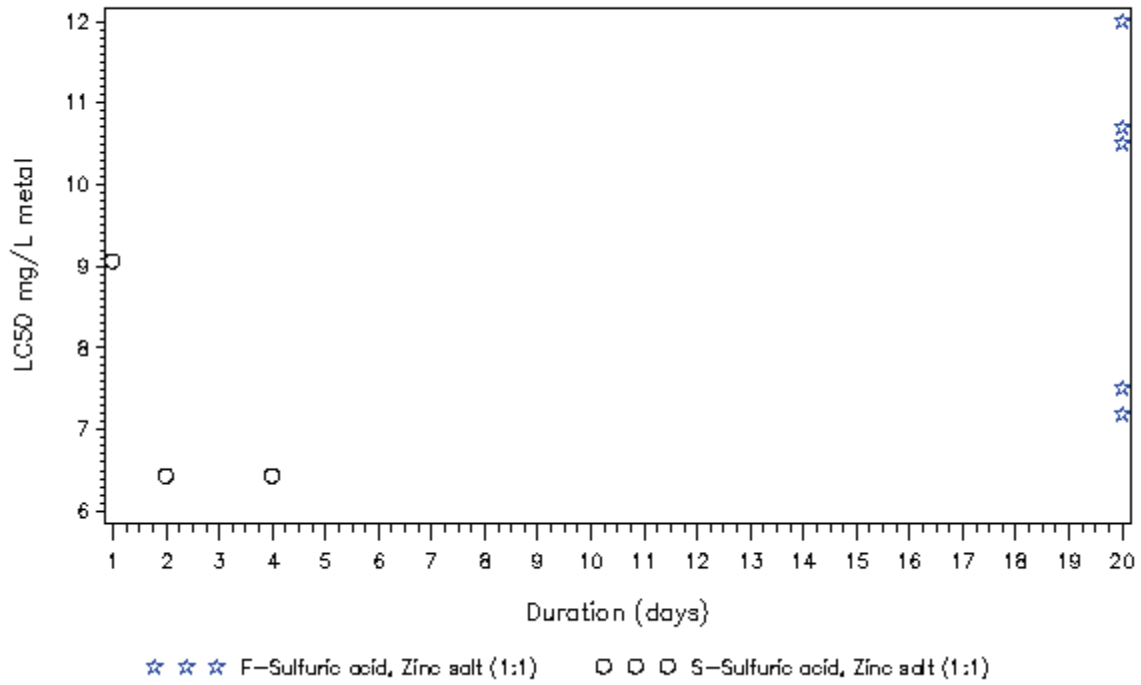


Lepomis macrochirus exposed to Zinc at T>15C in soft water

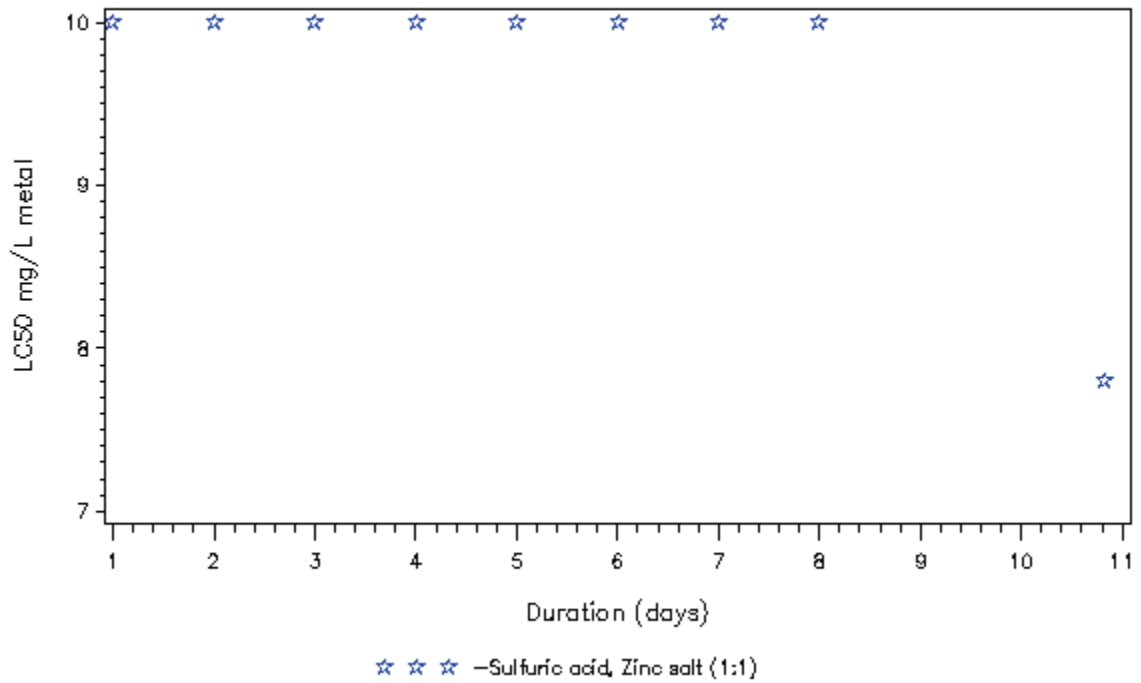


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lepomis macrochirus exposed to Zinc at T>15C in very hard water

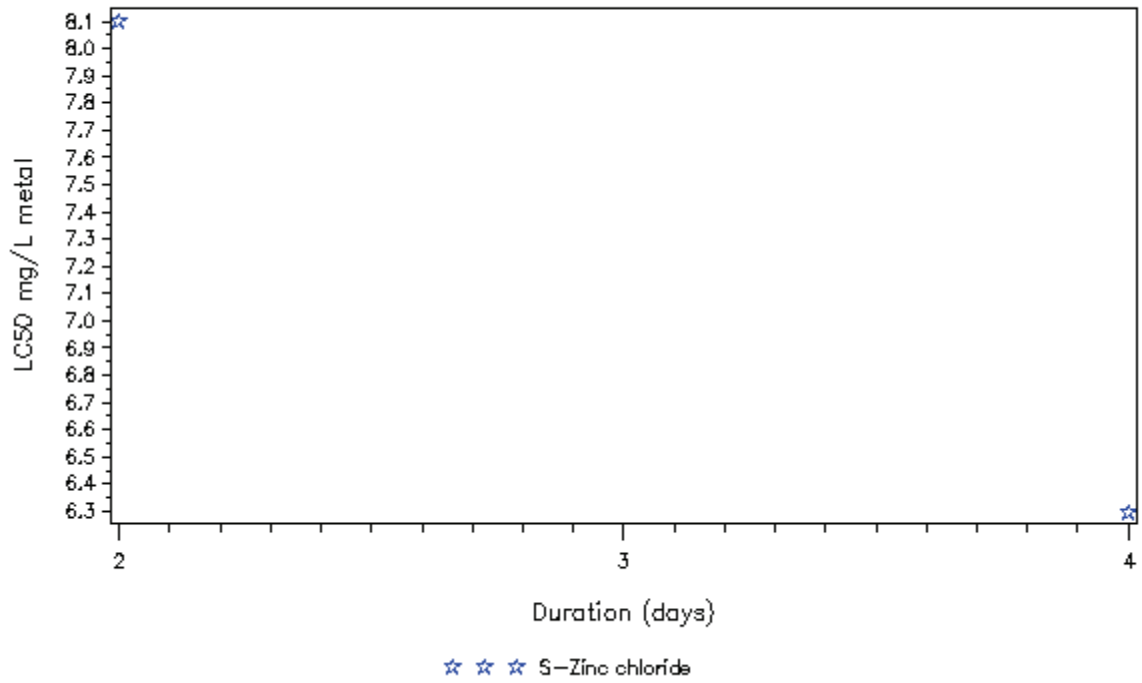


Limnodrilus hoffmeisteri exposed to Zinc at T>15C in moderate water

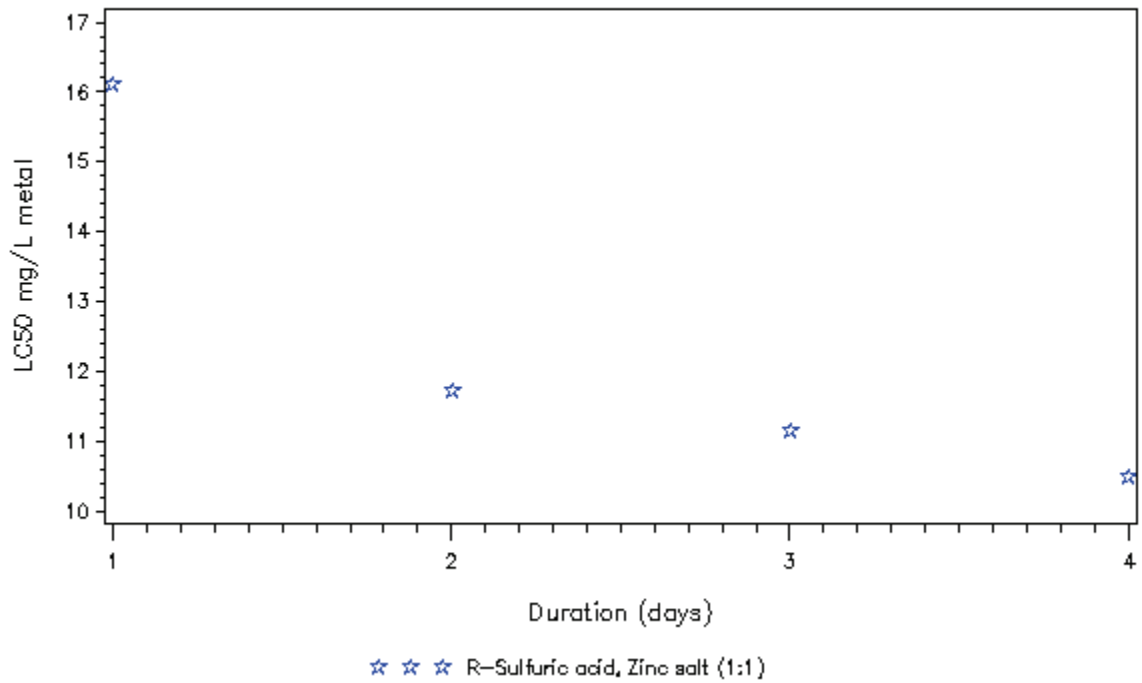


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lumbriculus variegatus exposed to Zinc at T>15C in soft water

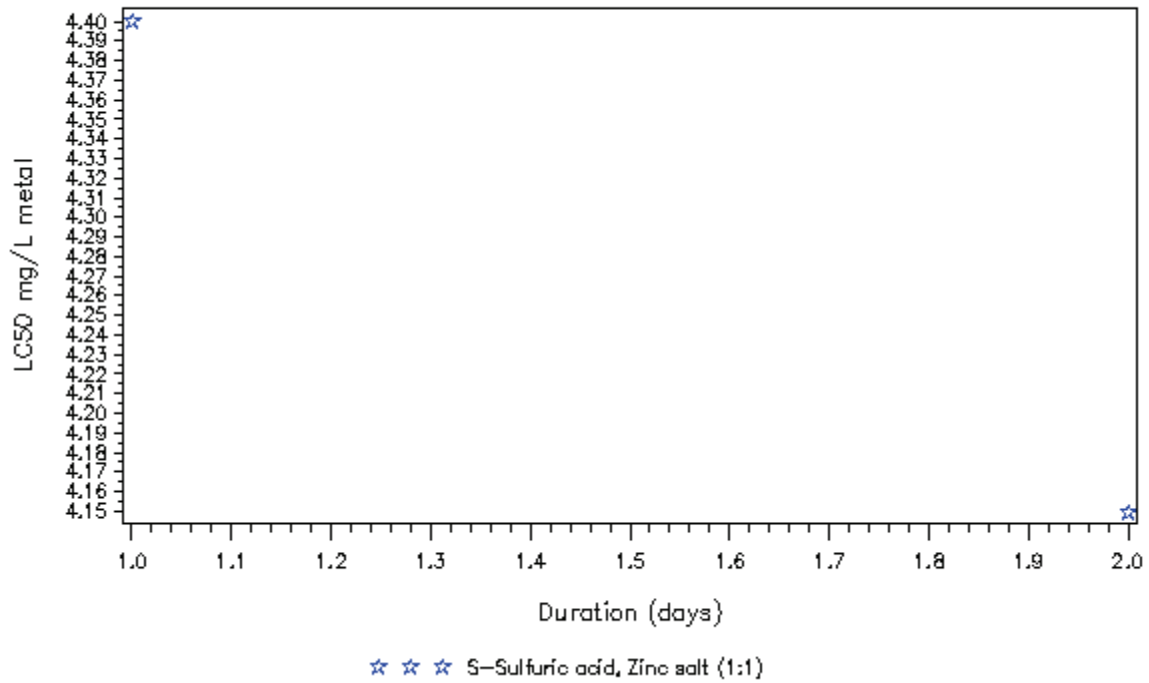


Lymnaea acuminata exposed to Zinc at T>15C in very hard water

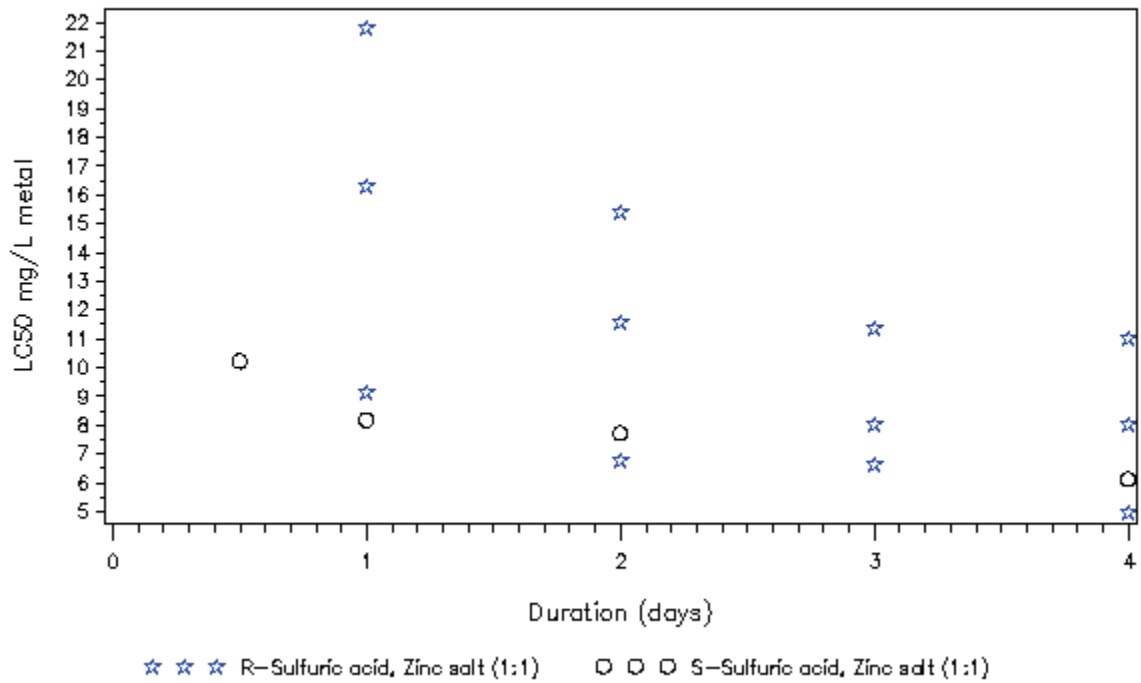


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lymnaea emarginata angulata exposed to Zinc at T>15C in hard water

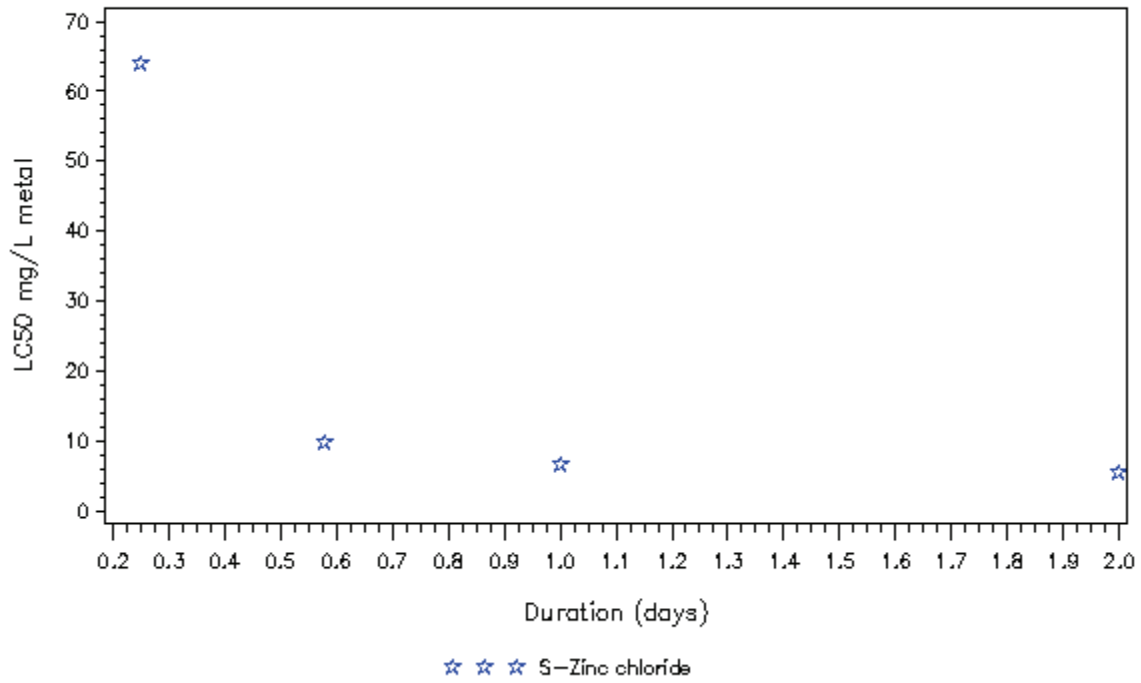


Lymnaea luteola exposed to Zinc at T>15C in very hard water

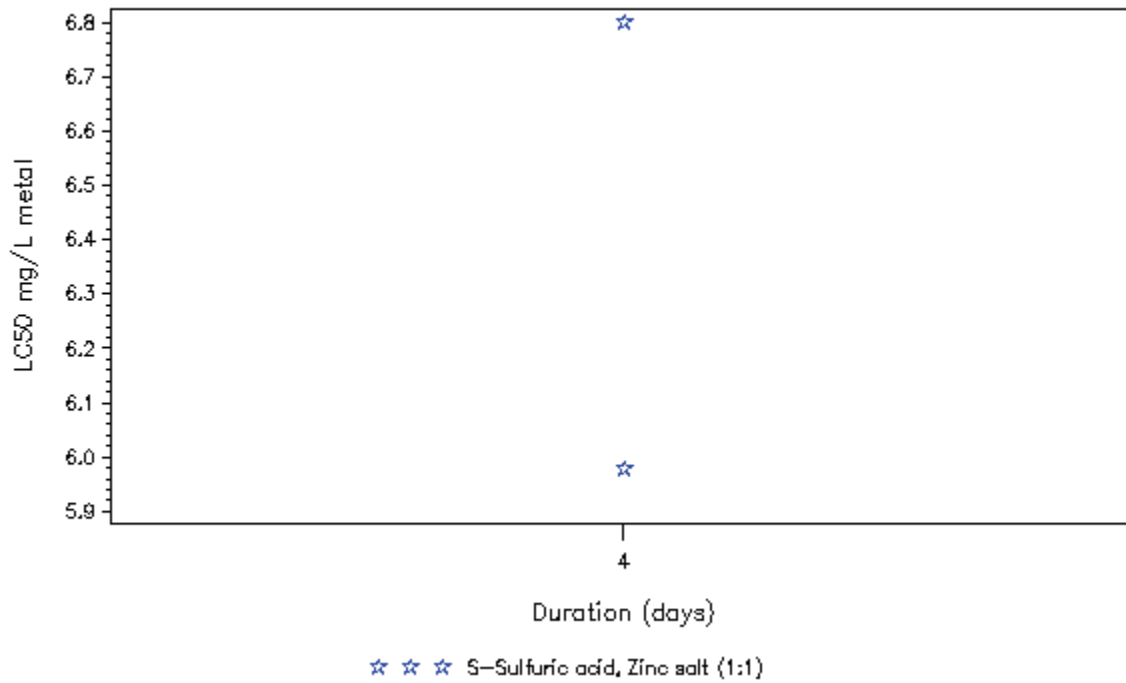


S – Static Test, F – Flowthrough Test, R –Renewal Test

Lymnaea stagnalis exposed to Zinc at T>15C in hard water

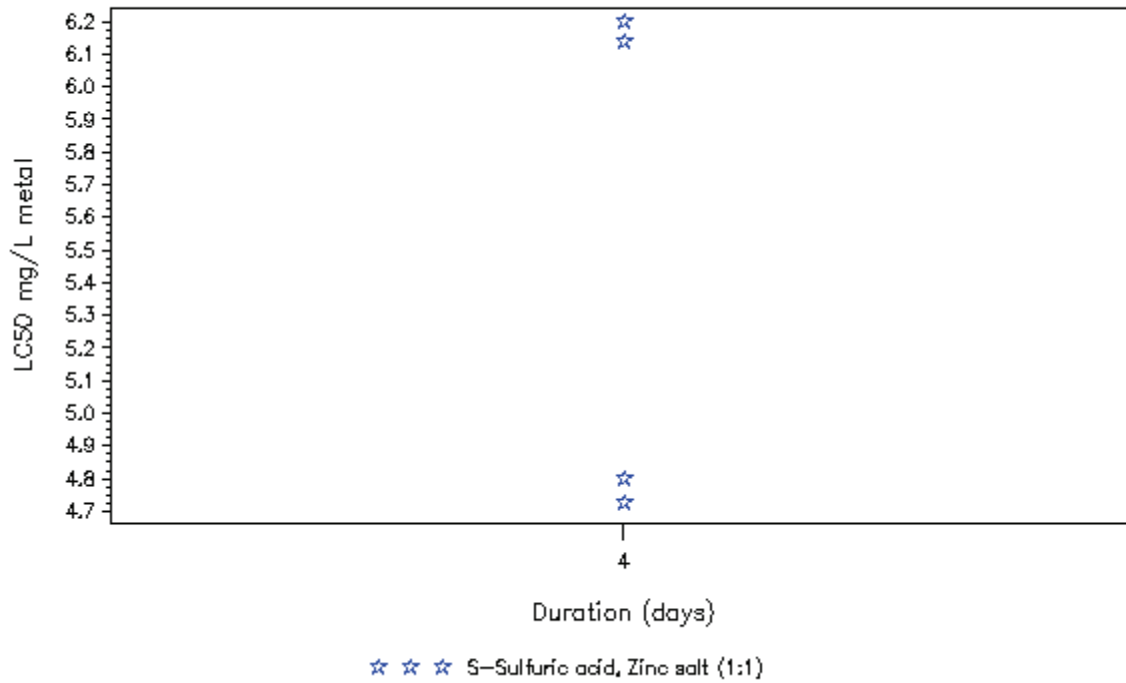


Melanotaenia nigra exposed to Zinc at T>15C in very soft water

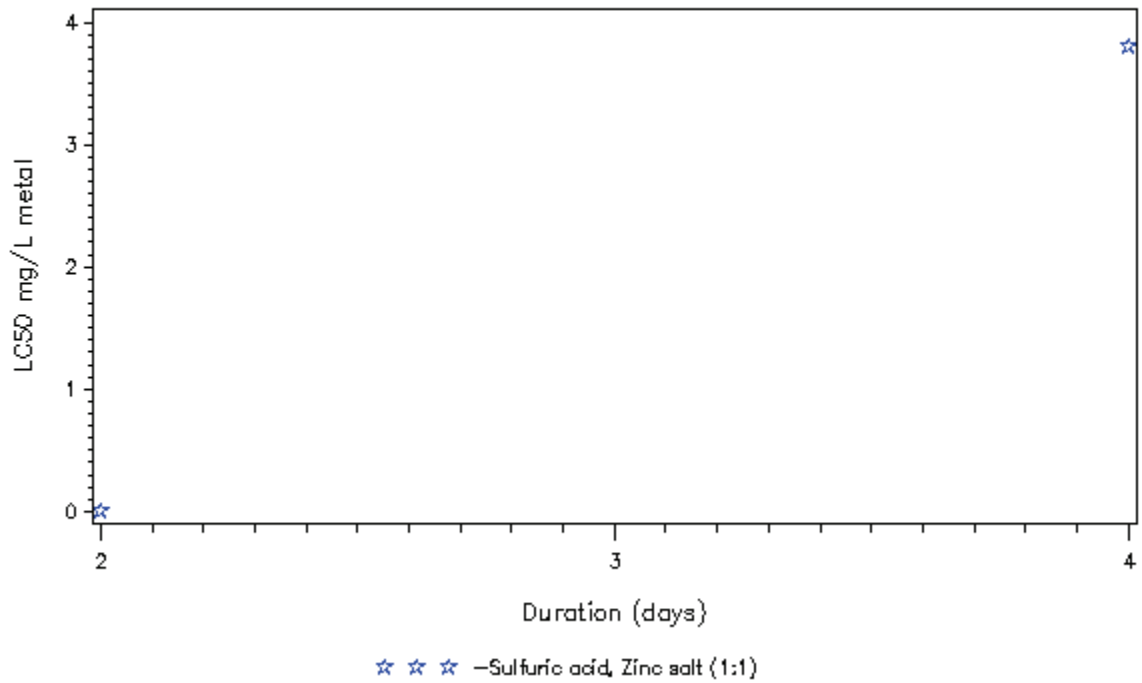


S – Static Test, F – Flowthrough Test, R –Renewal Test

Melanotaenia splendida inornat exposed to Zinc at T>15C in very soft water

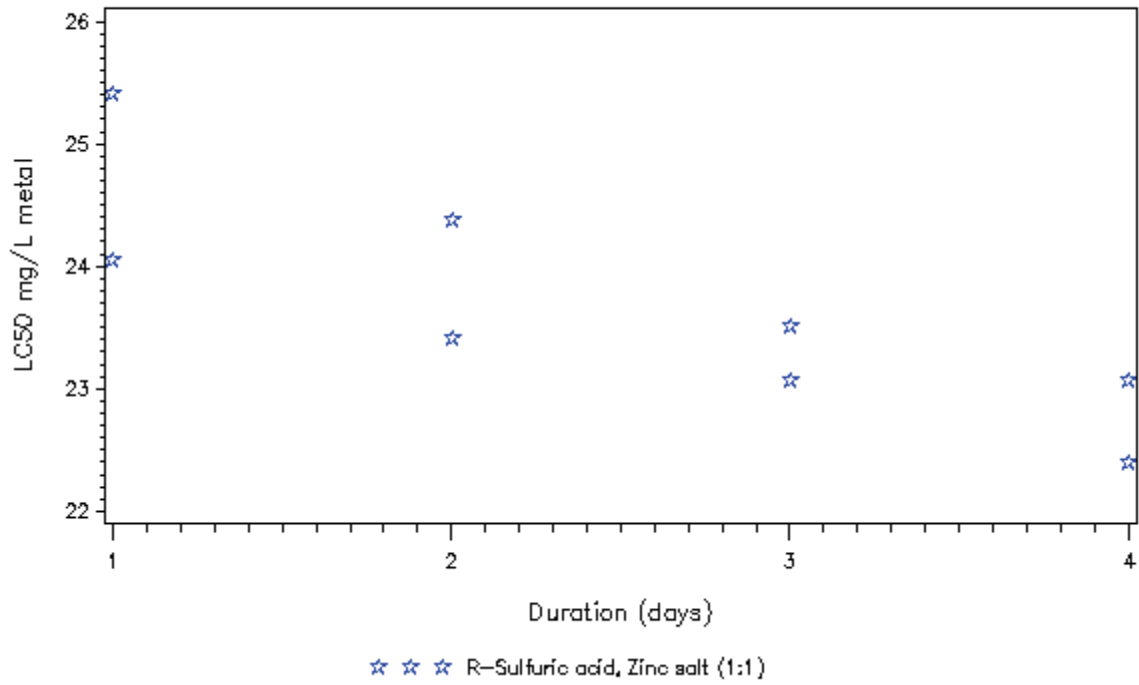


Mesocyclops hyalinus exposed to Zinc at T>15C in soft water

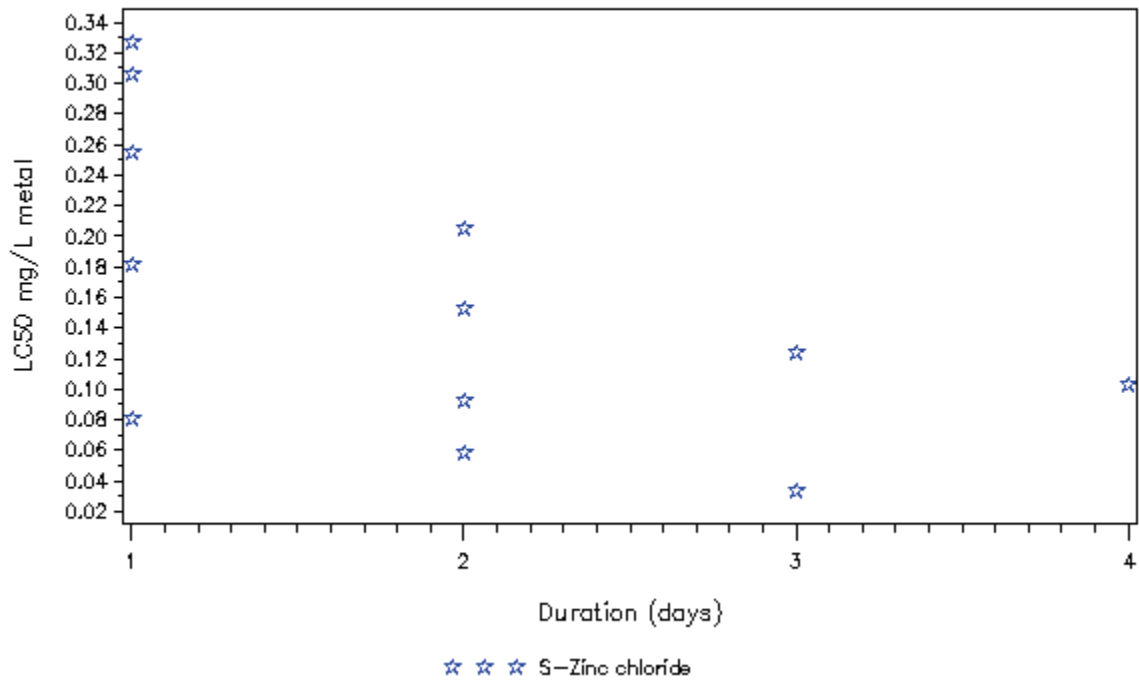


S – Static Test, F – Flowthrough Test, R –Renewal Test

Microhylla ornata exposed to Zinc at T>15C in hard water

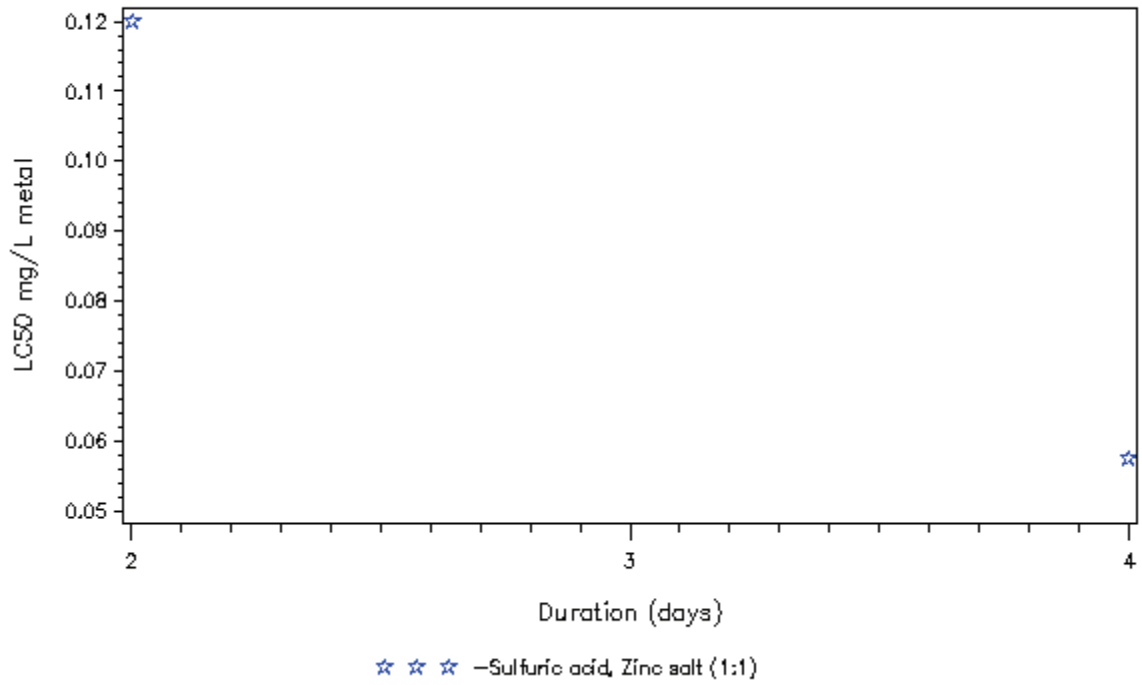


Moina irrasa exposed to Zinc at T>15C in very soft water

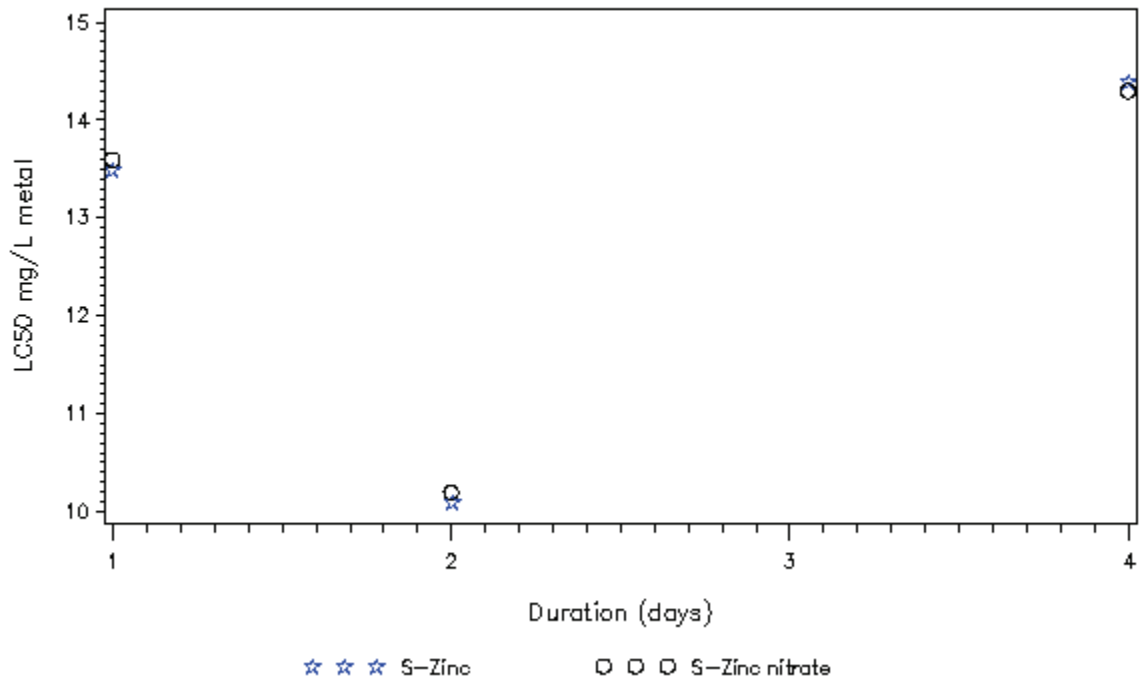


S – Static Test, F – Flowthrough Test, R –Renewal Test

Moina macrocopa exposed to Zinc at T>15C in soft water

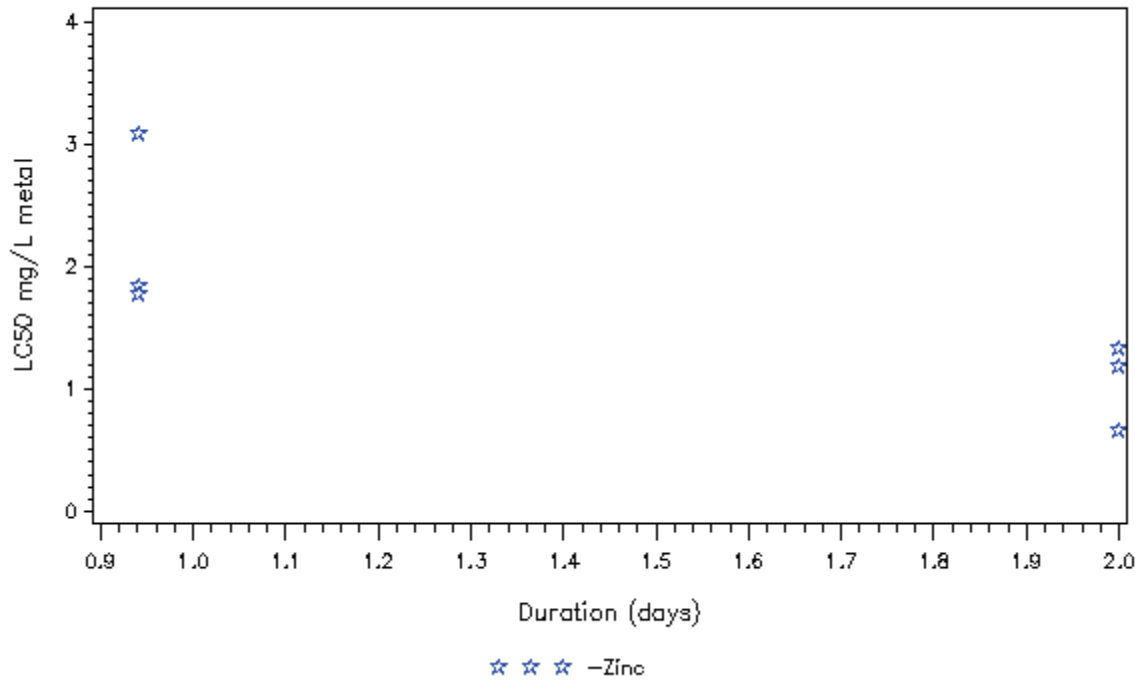


Morone americana exposed to Zinc at T>15C in soft water

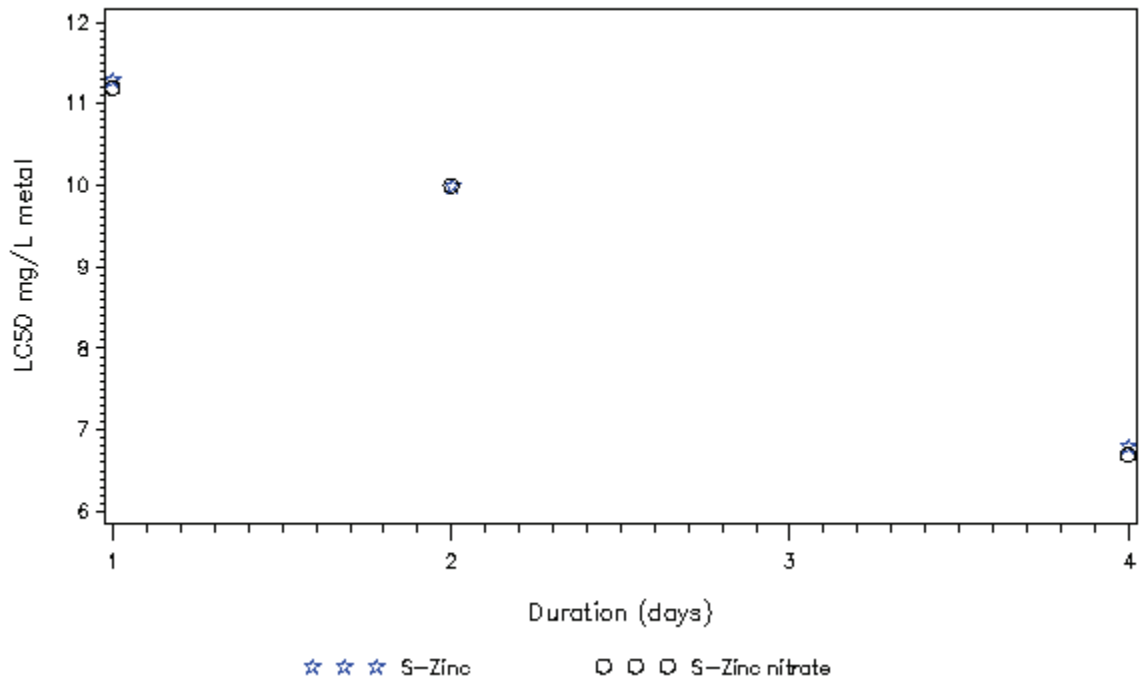


S – Static Test, F – Flowthrough Test, R –Renewal Test

Morone saxatilis exposed to Zinc at T>15C in hard water

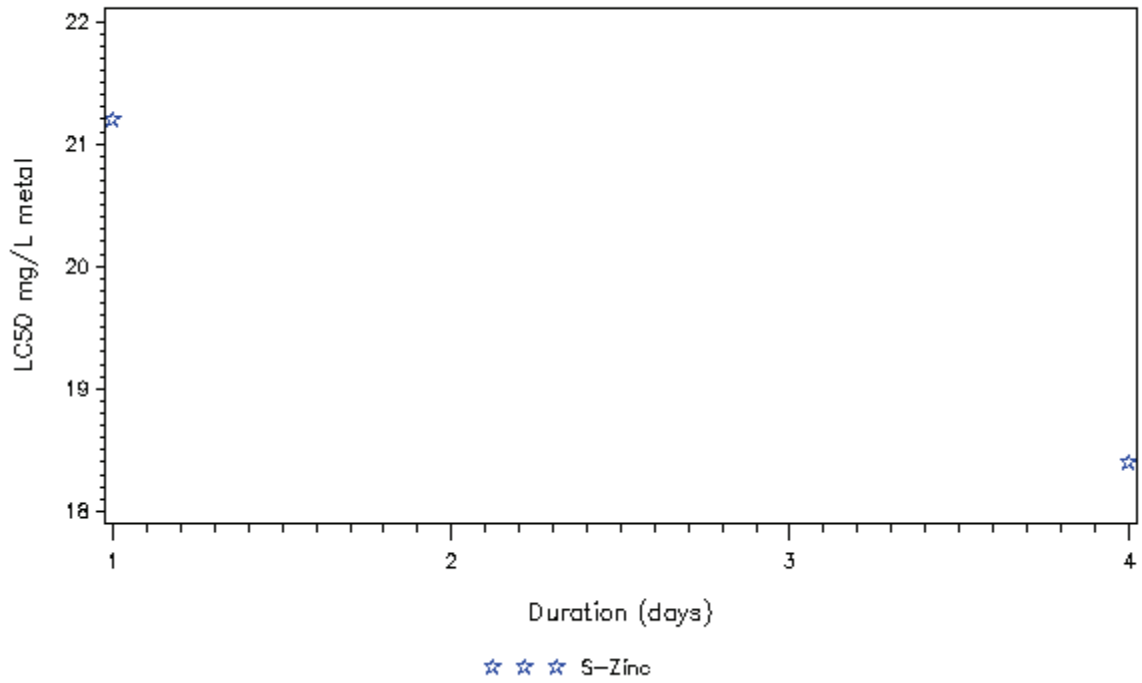


Morone saxatilis exposed to Zinc at T>15C in soft water

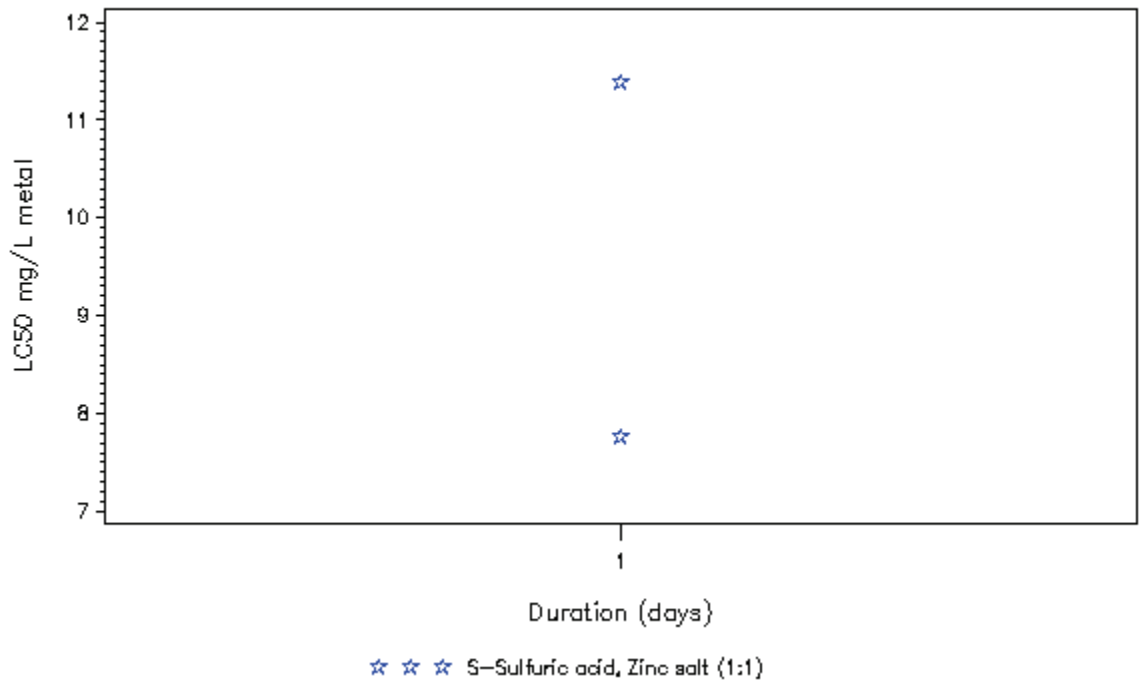


S – Static Test, F – Flowthrough Test, R –Renewal Test

Nais exposed to Zinc at T>15C in soft water

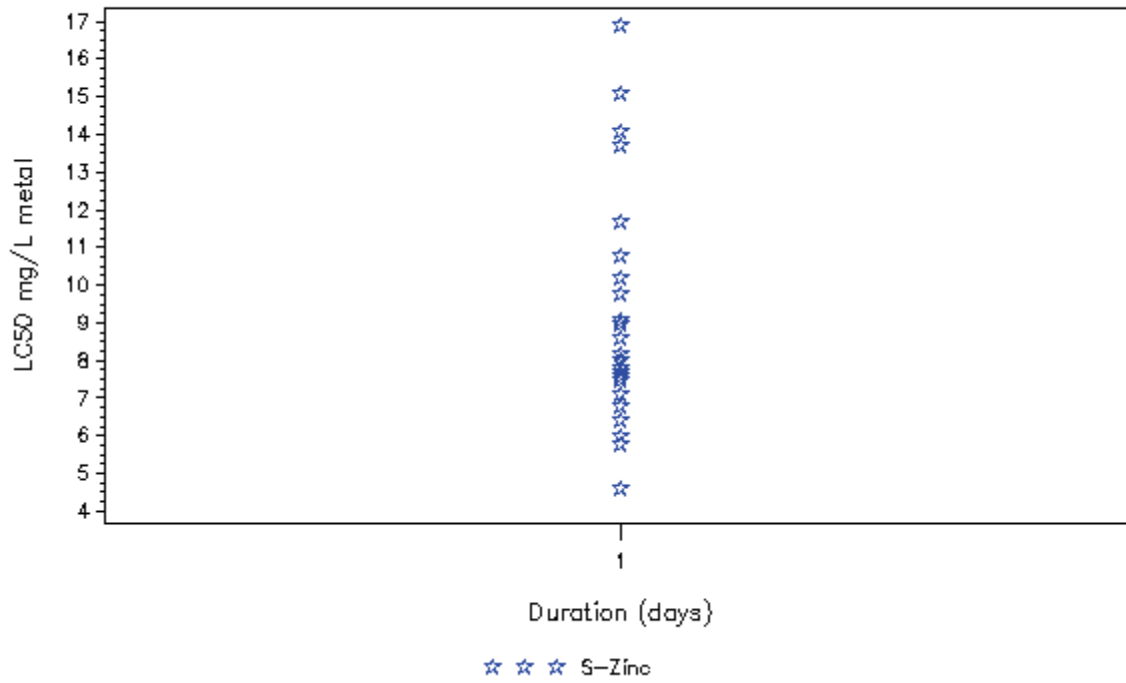


Notemigonus crysoleucas exposed to Zinc at T<=15C in soft water

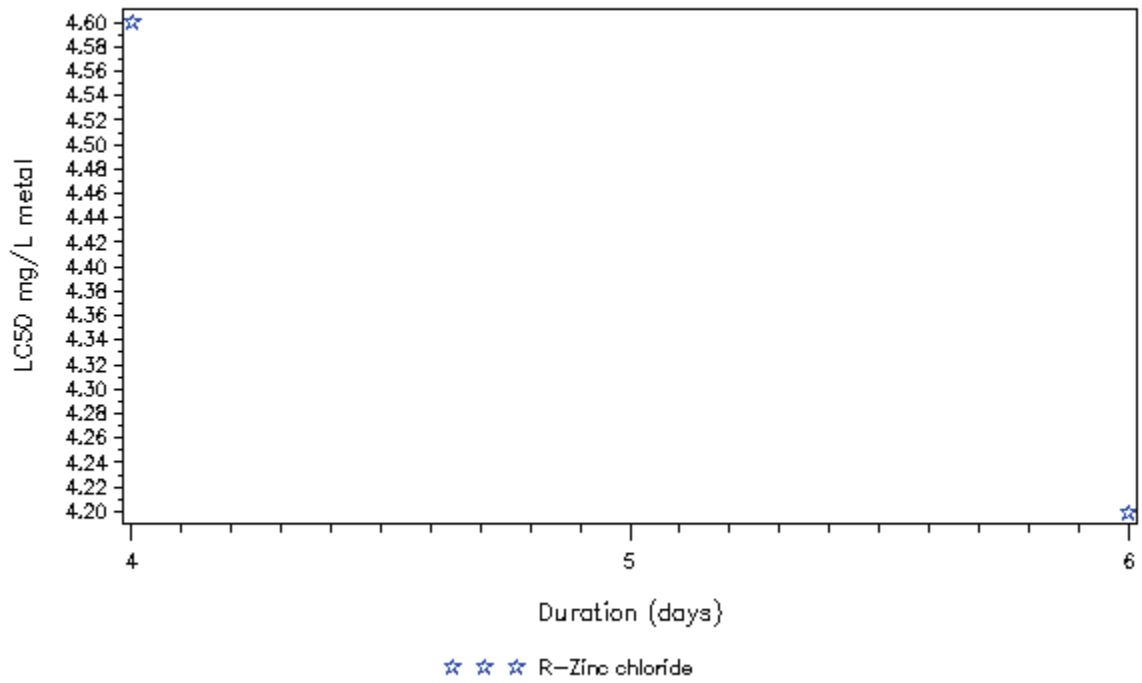


S – Static Test, F – Flowthrough Test, R –Renewal Test

Nothobranchius guentheri exposed to Zinc at T>15C in soft water

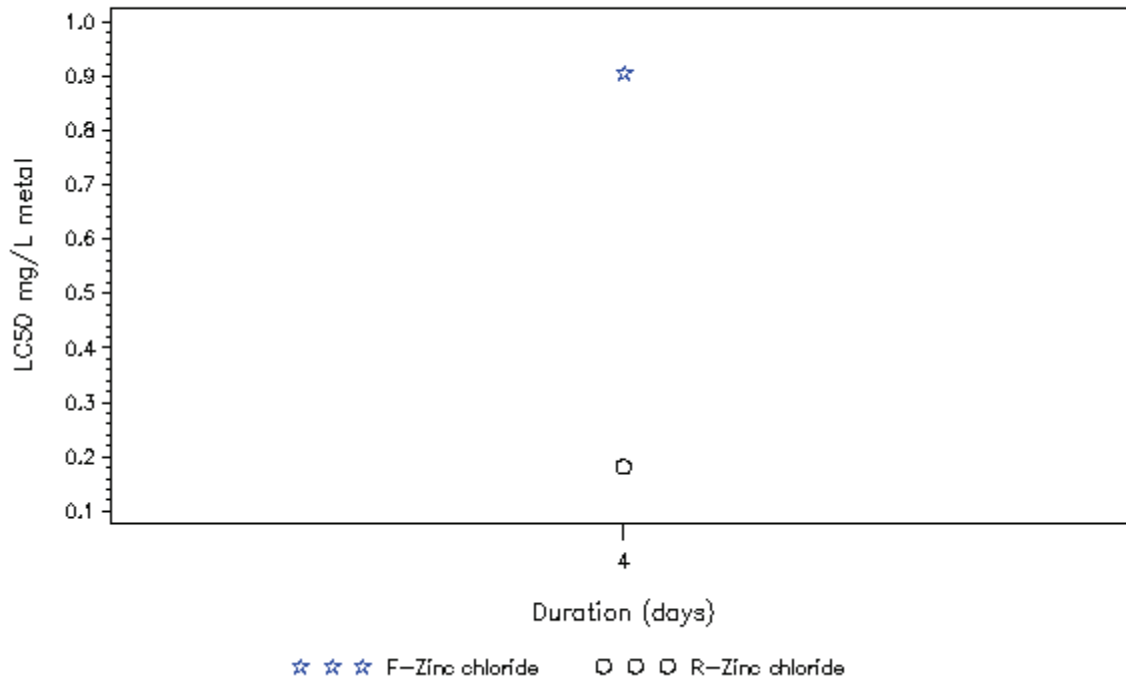


Oncorhynchus kisutch exposed to Zinc at T<=15C in moderate water

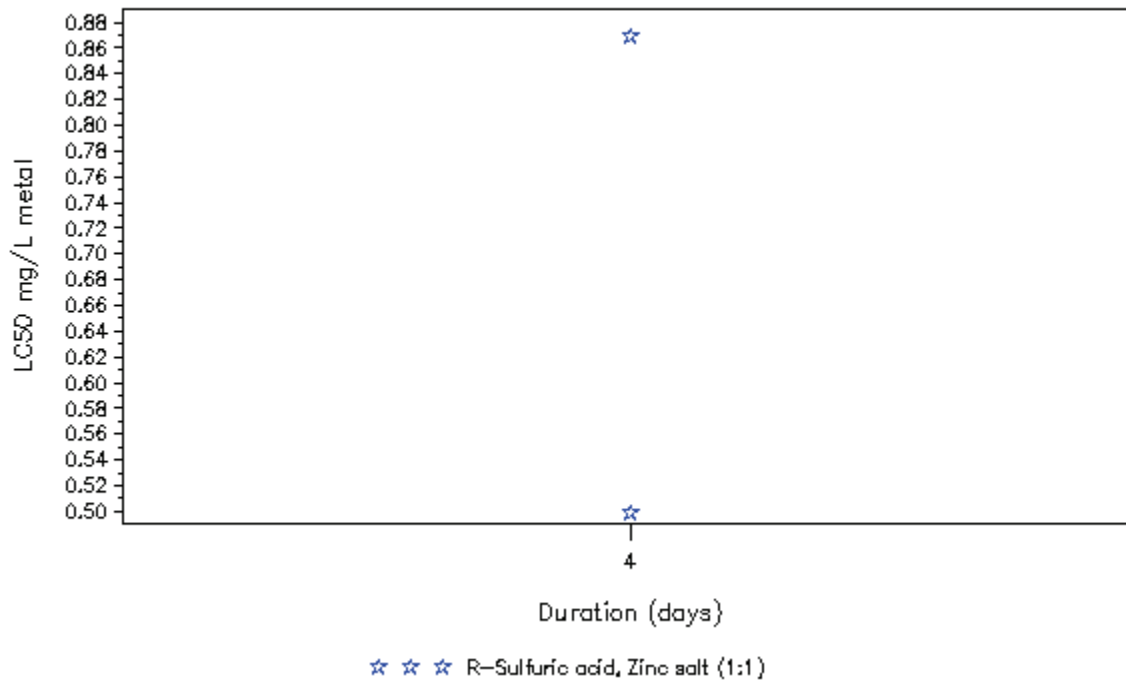


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus kisutch exposed to Zinc at T<=15C in soft water

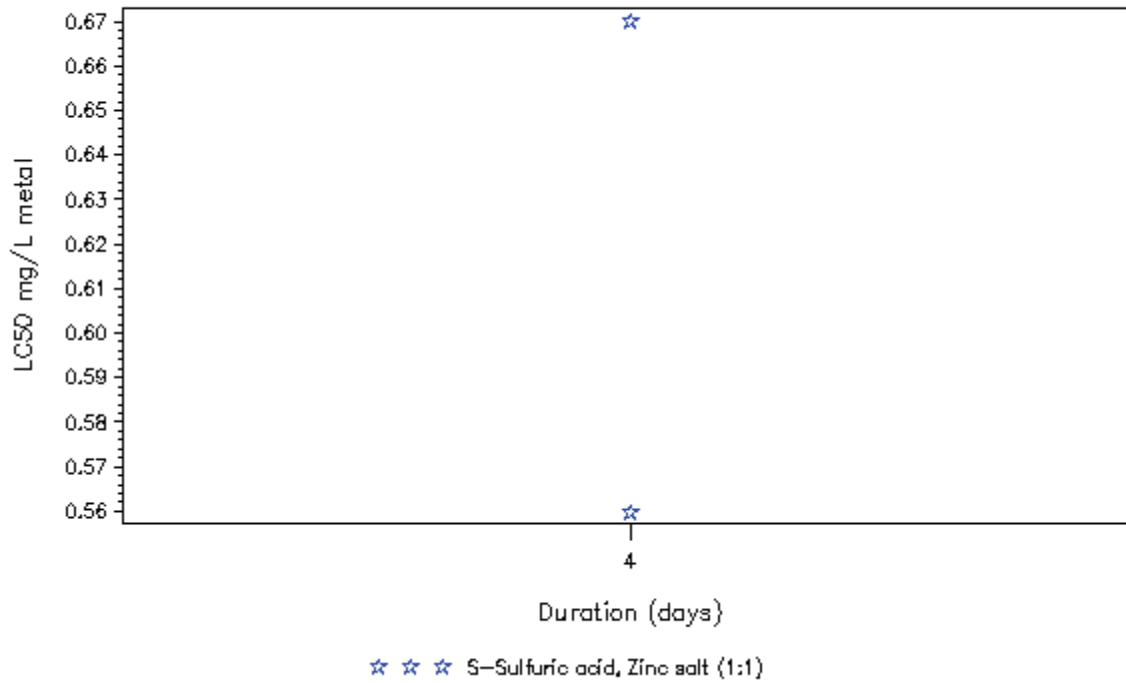


Oncorhynchus kisutch exposed to Zinc at T<=15C in very soft water

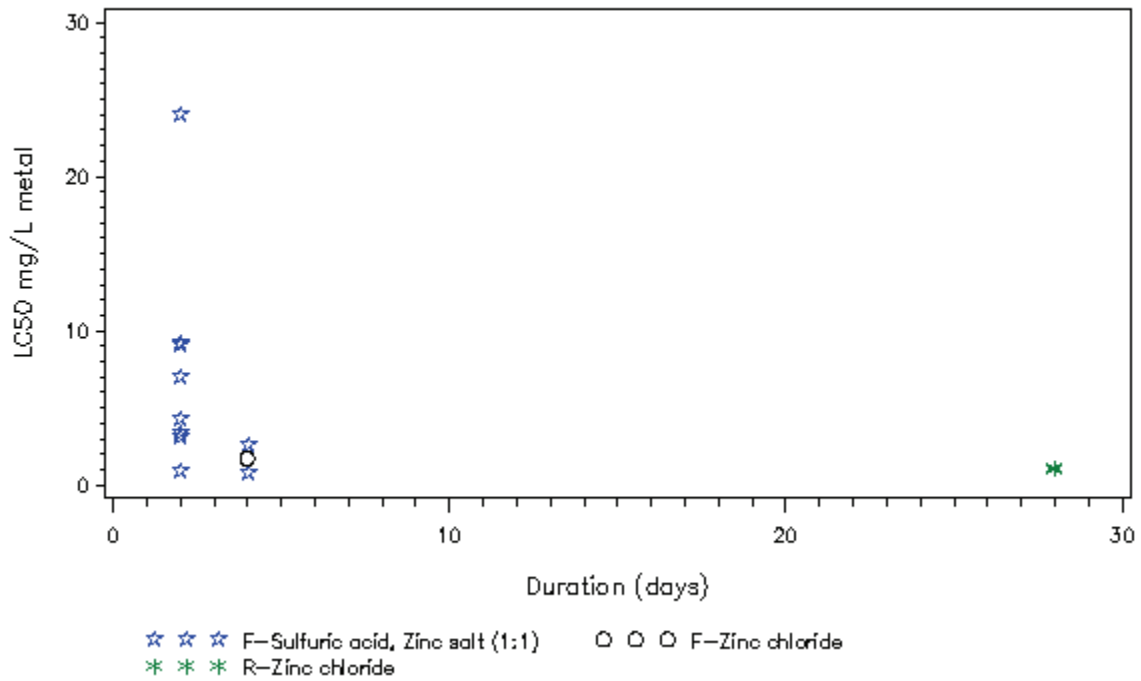


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Zinc at T<=15C in hard water

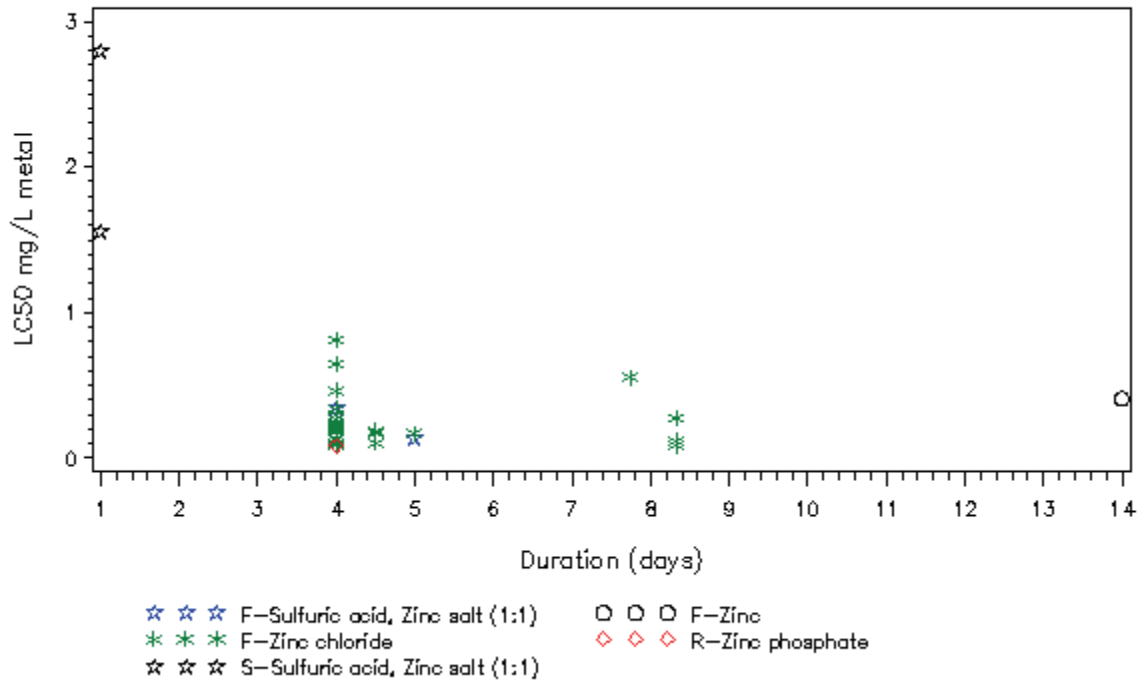


Oncorhynchus mykiss exposed to Zinc at T<=15C in moderate water

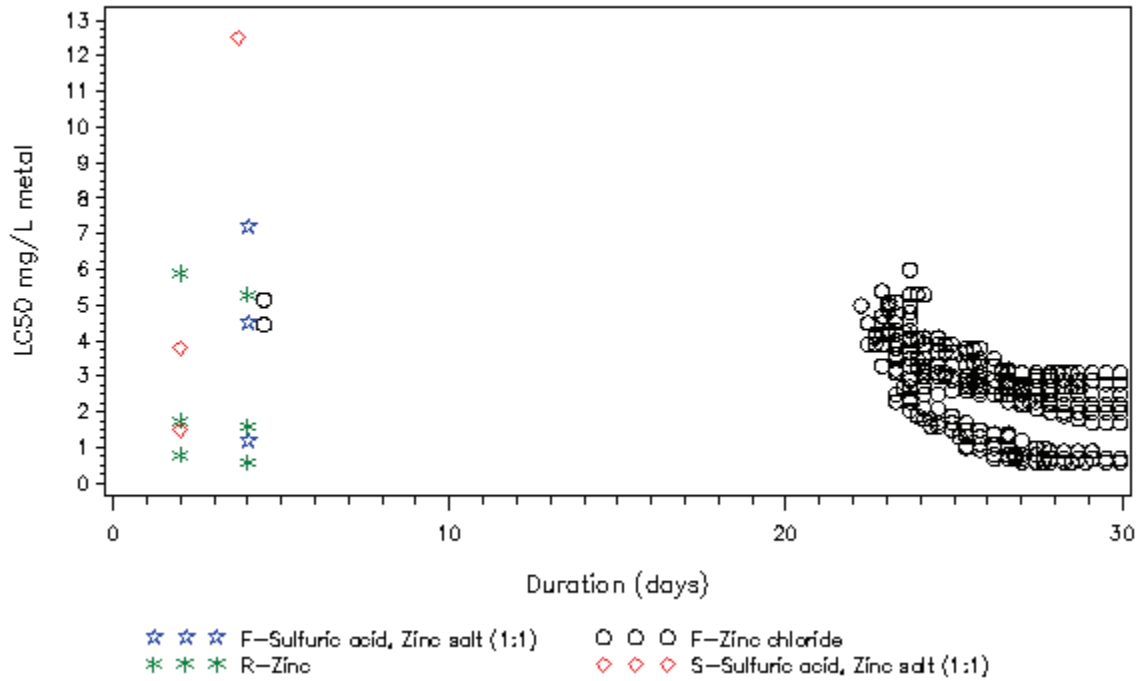


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Zinc at T<=15C in soft water

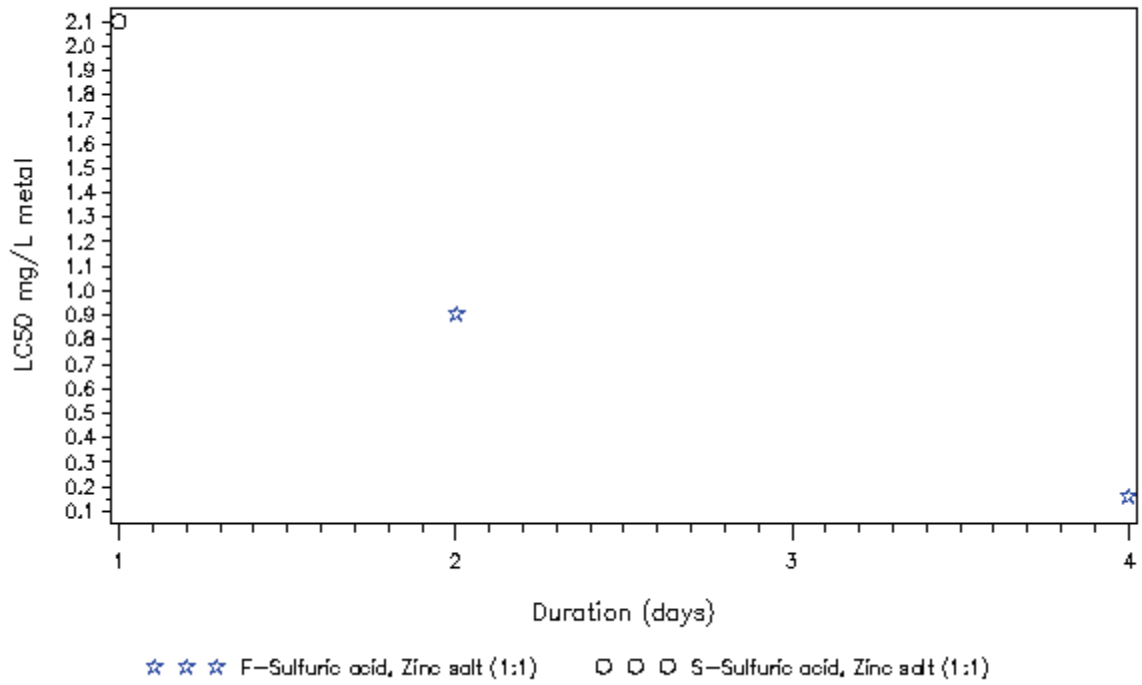


Oncorhynchus mykiss exposed to Zinc at T<=15C in very hard water

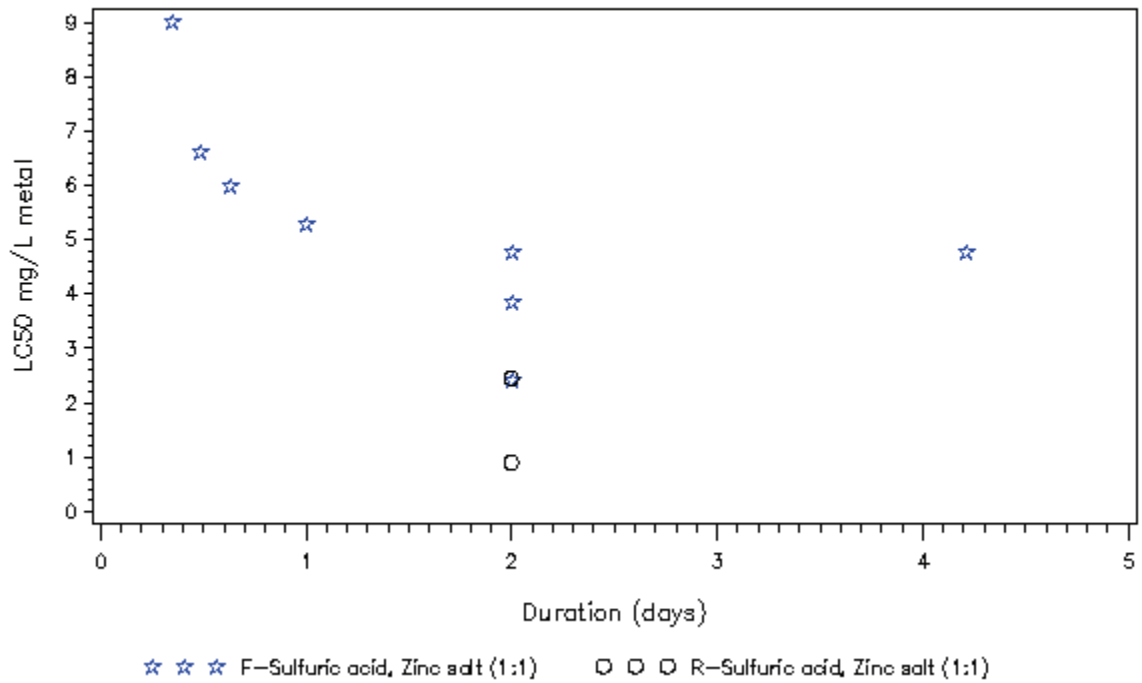


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Zinc at T>15C in soft water

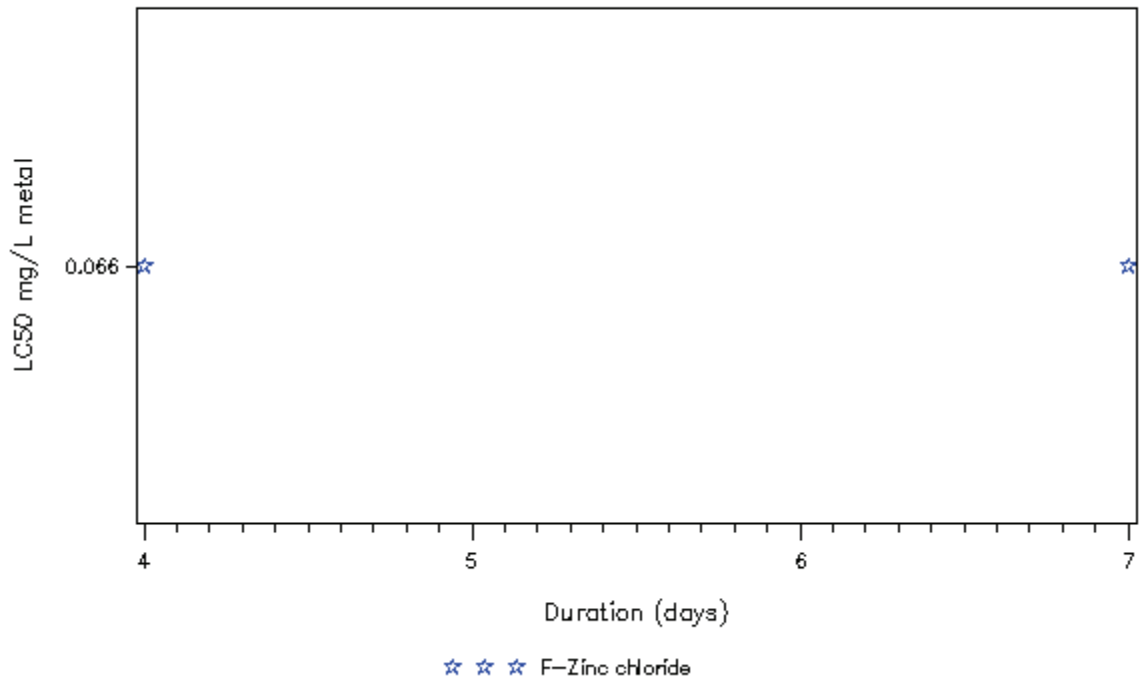


Oncorhynchus mykiss exposed to Zinc at T>15C in very hard water

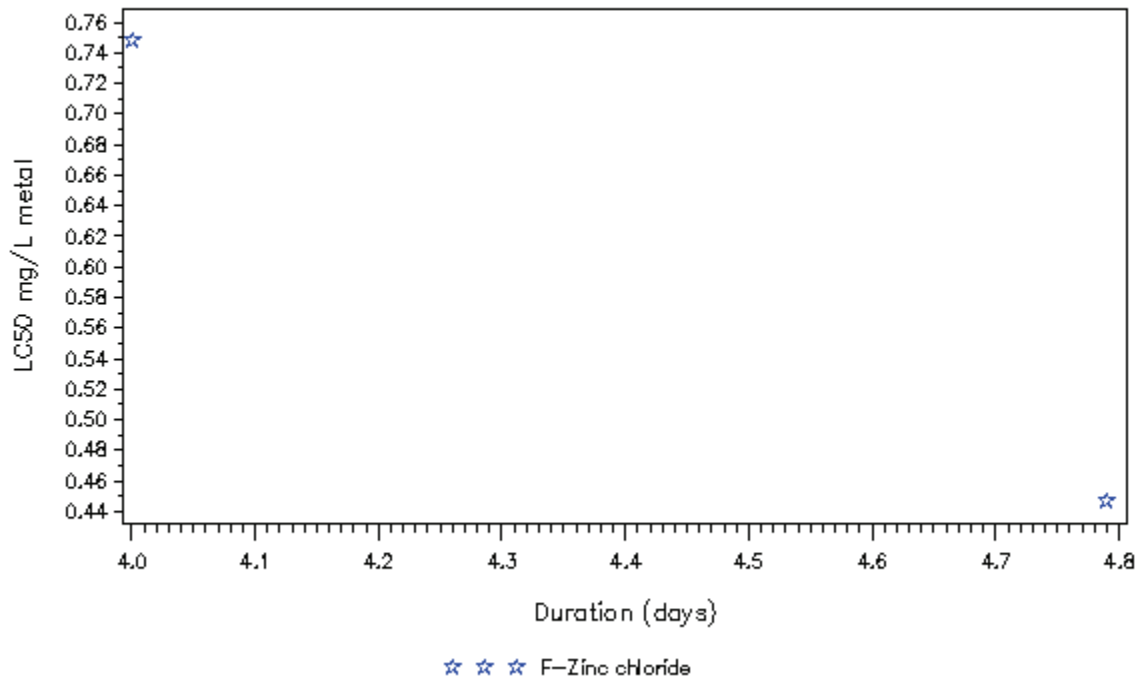


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus mykiss exposed to Zinc at T>15C in very soft water

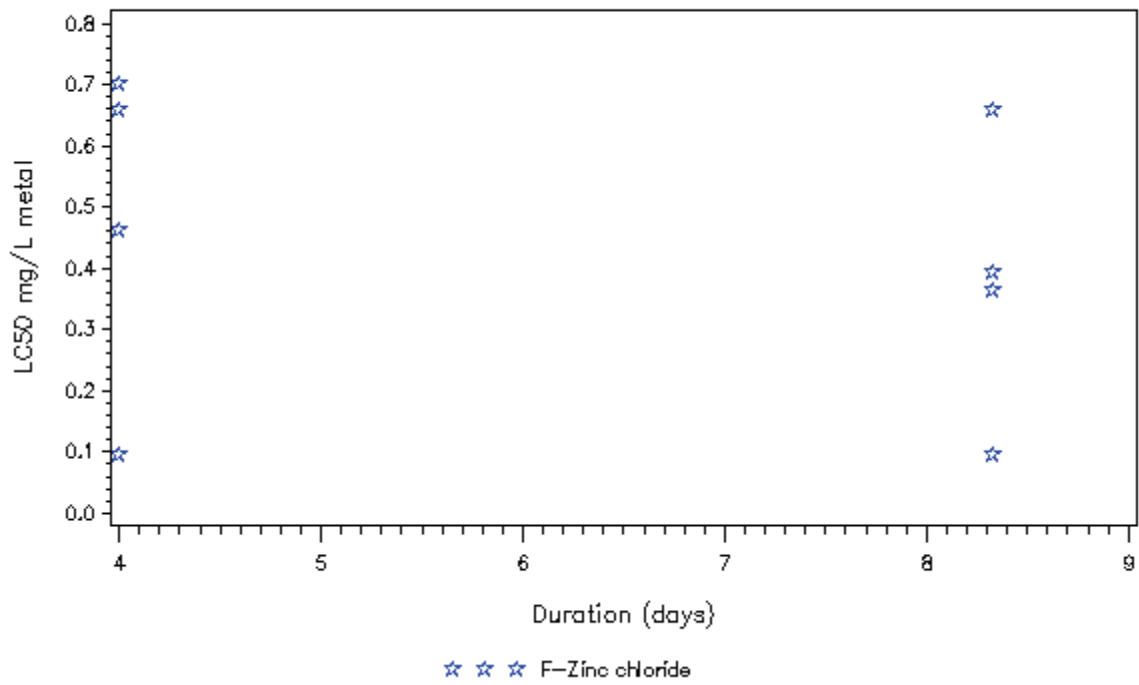


Oncorhynchus nerka exposed to Zinc at T<=15C in soft water

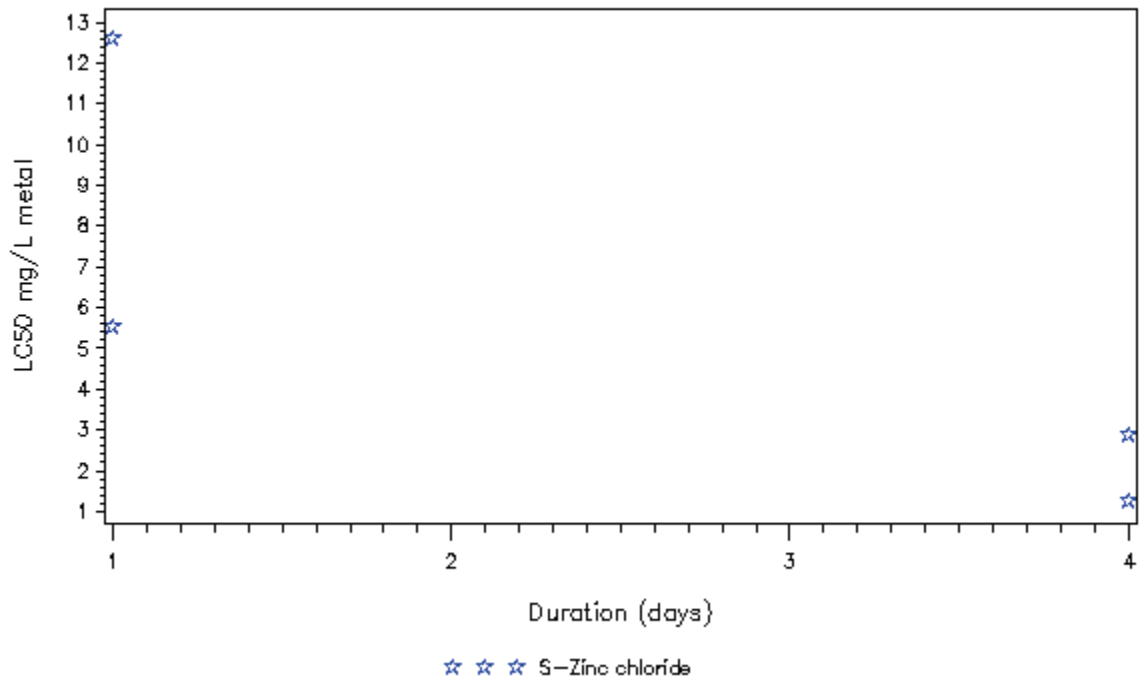


S – Static Test, F – Flowthrough Test, R –Renewal Test

Oncorhynchus tshawytscha exposed to Zinc at T<=15C in soft water

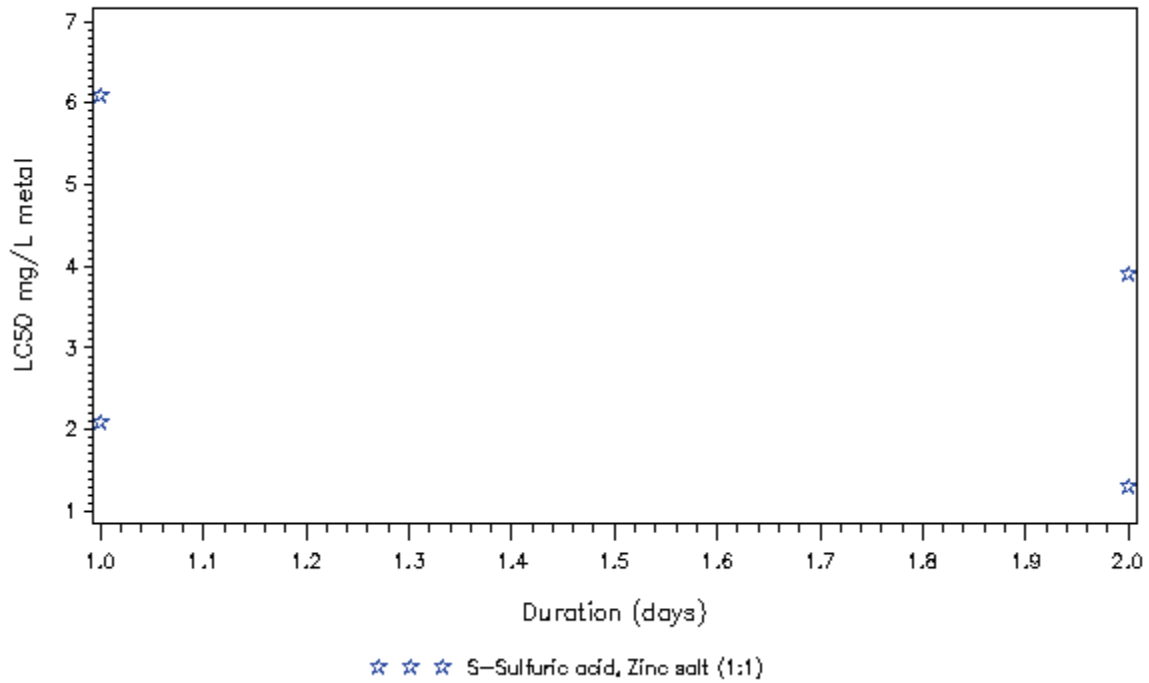


Oncorhynchus tshawytscha exposed to Zinc at T<=15C in very hard water

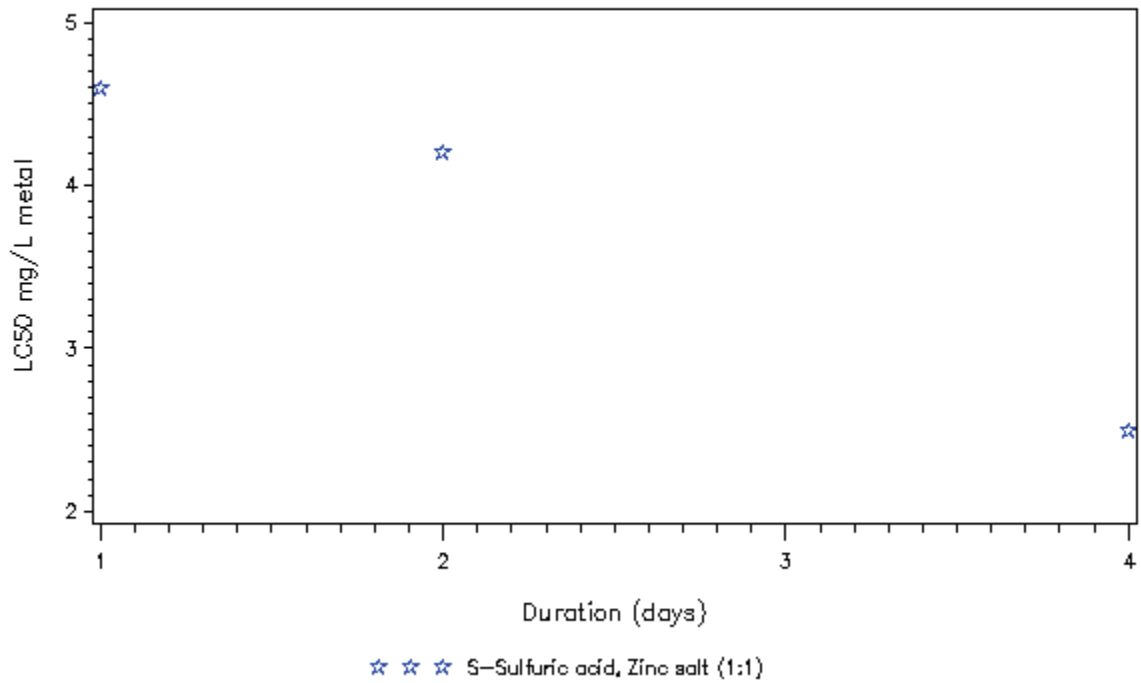


S – Static Test, F – Flowthrough Test, R –Renewal Test

Philodina acuticornis exposed to Zinc at T<=15C in moderate water

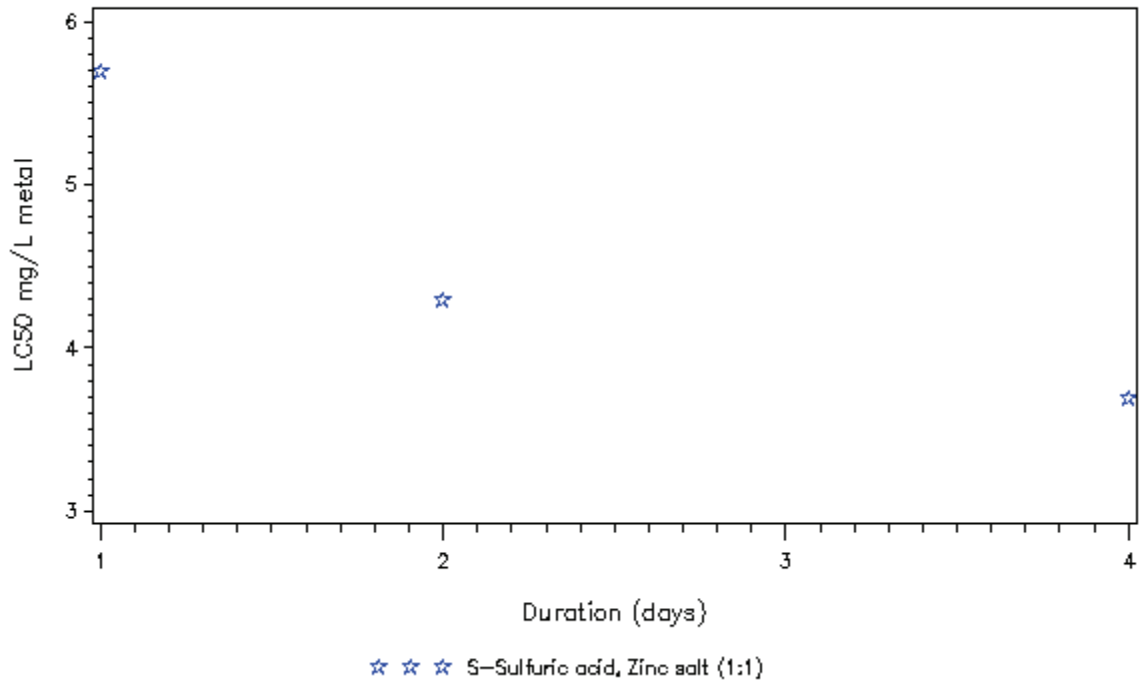


Philodina acuticornis exposed to Zinc at T<=15C in soft water

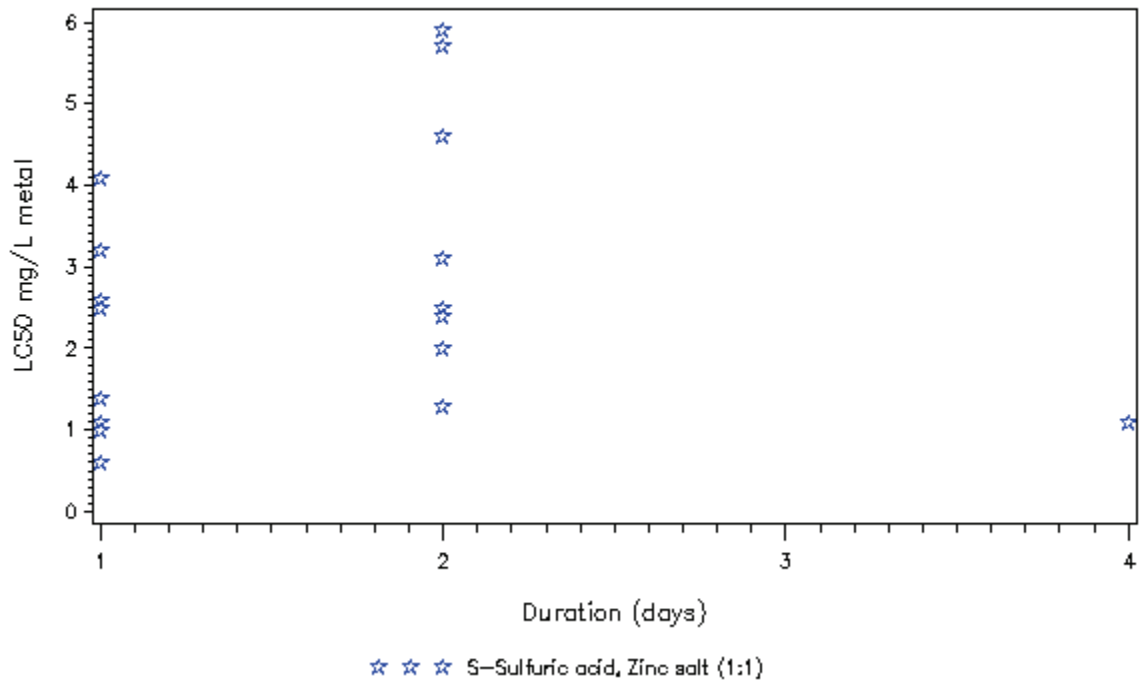


S – Static Test, F – Flowthrough Test, R –Renewal Test

Philodina acuticornis exposed to Zinc at T>15C in hard water

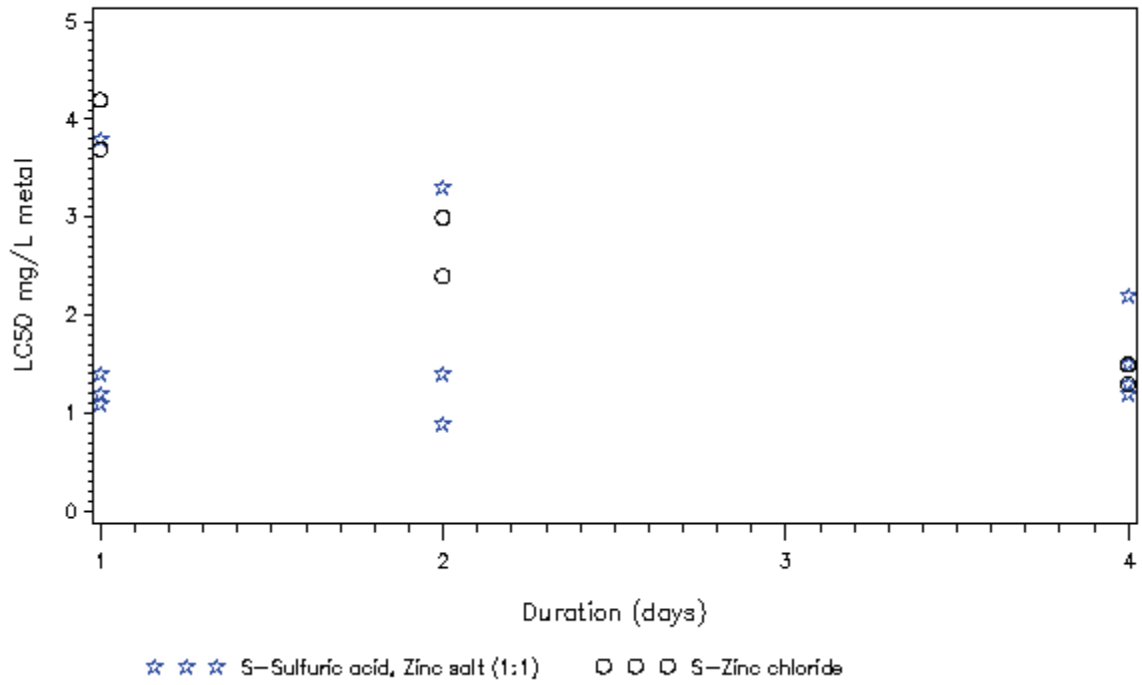


Philodina acuticornis exposed to Zinc at T>15C in moderate water

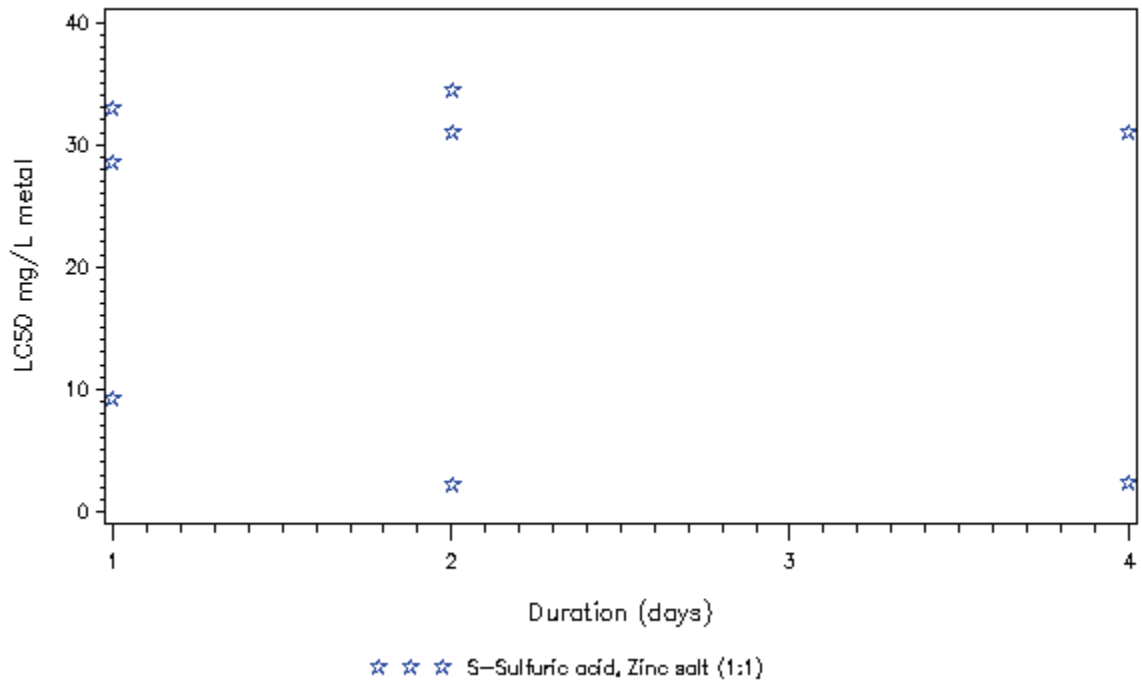


S – Static Test, F – Flowthrough Test, R –Renewal Test

Philodina acuticornis exposed to Zinc at T>15C in soft water

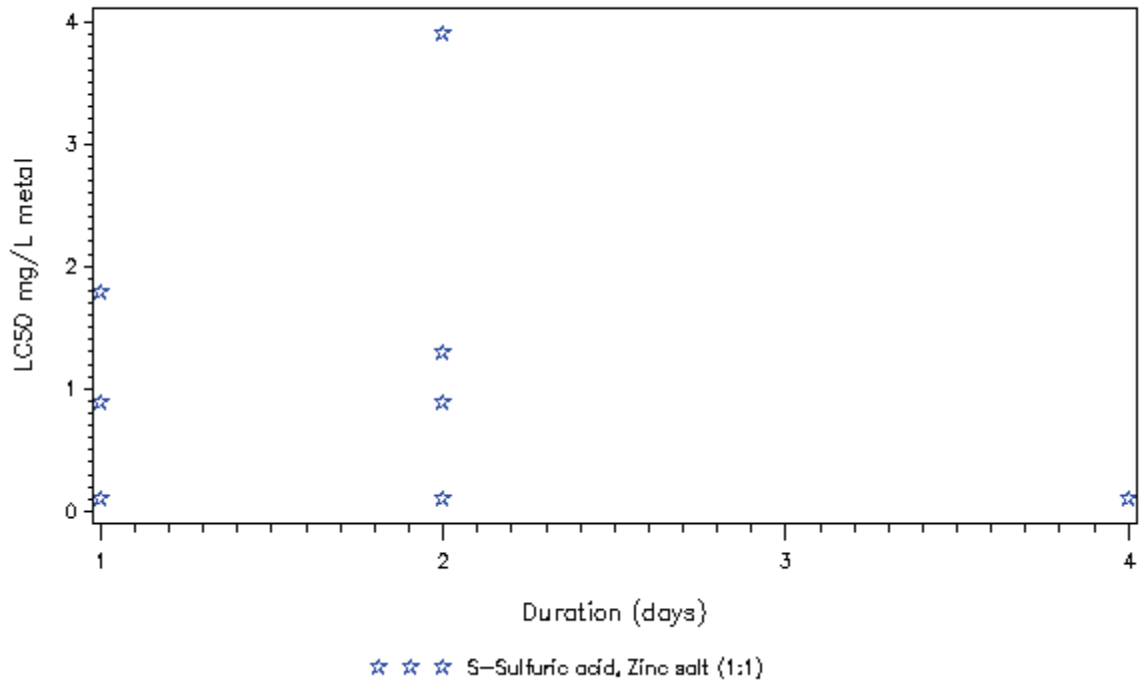


Philodina acuticornis exposed to Zinc at T>15C in very hard water

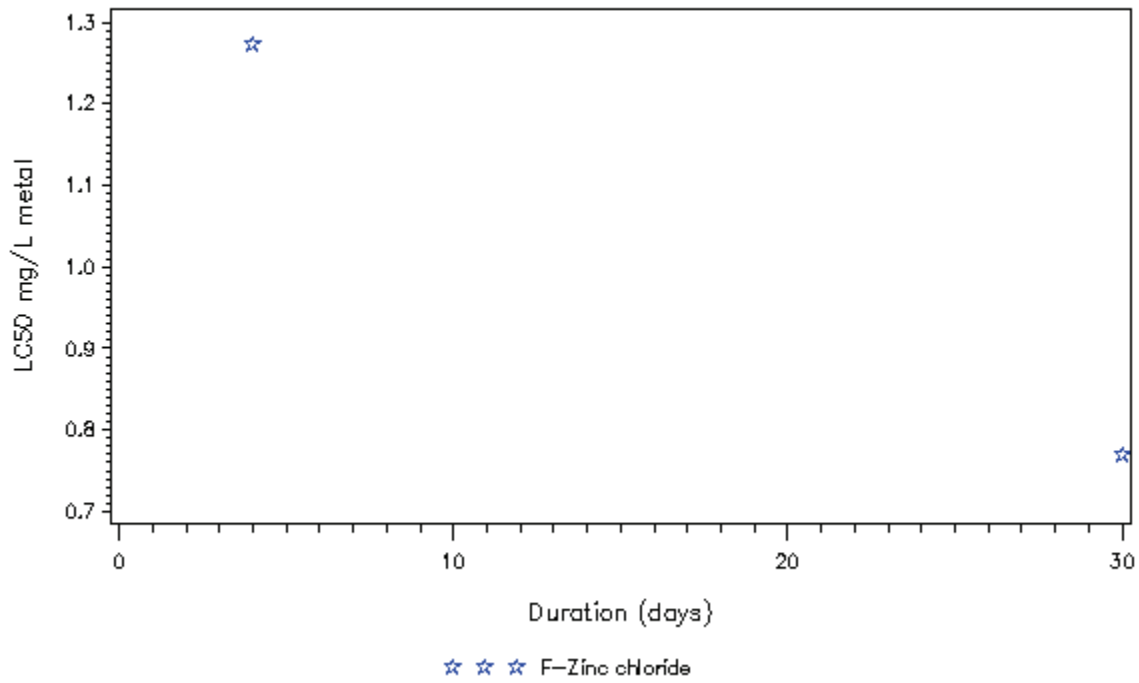


S – Static Test, F – Flowthrough Test, R –Renewal Test

Philodina acuticornis exposed to Zinc at T>15C in very soft water

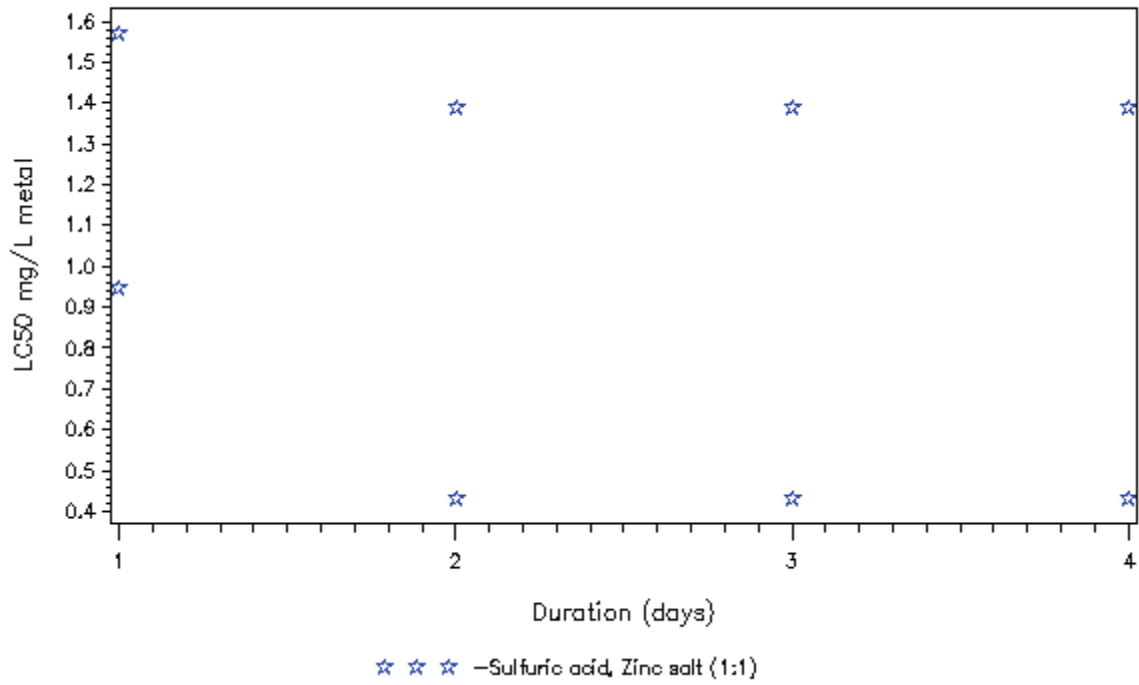


Physa gyrina exposed to Zinc at T<=15C in soft water

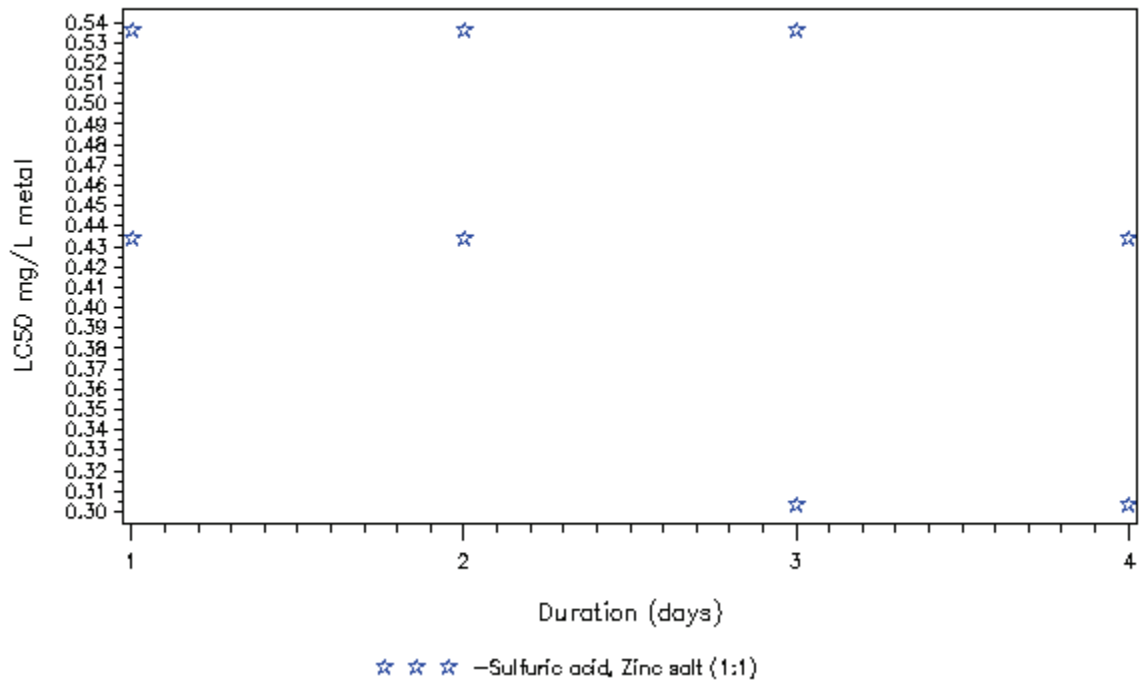


S – Static Test, F – Flowthrough Test, R –Renewal Test

Physa heterostropha exposed to Zinc at T<=15C in moderate water

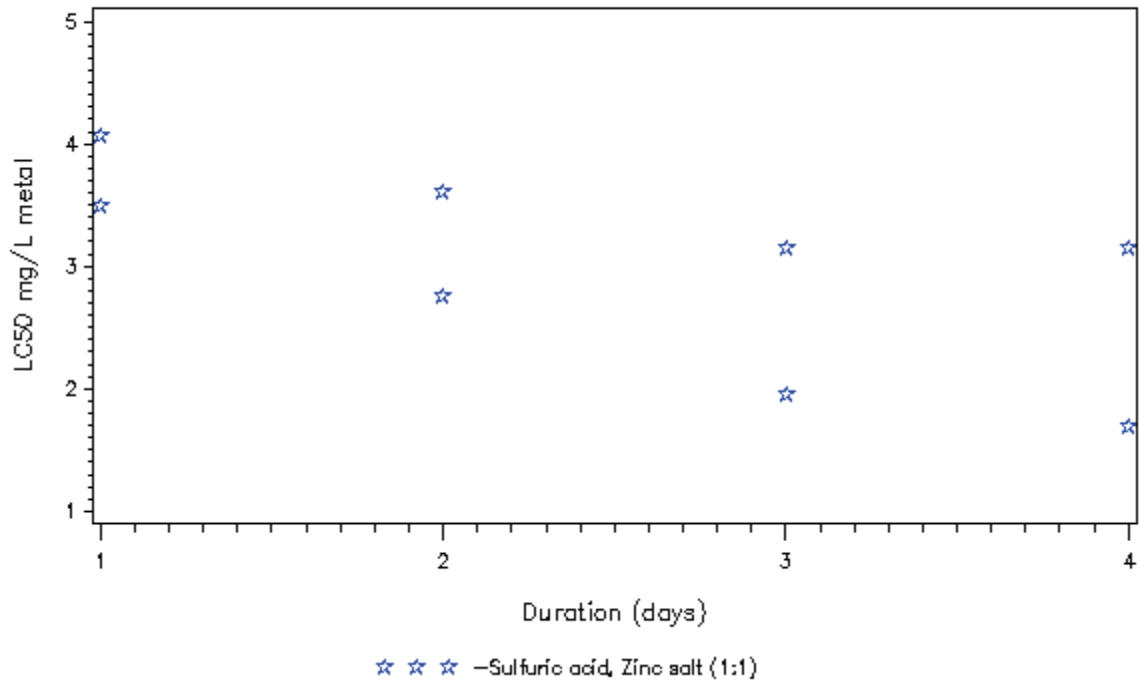


Physa heterostropha exposed to Zinc at T<=15C in soft water

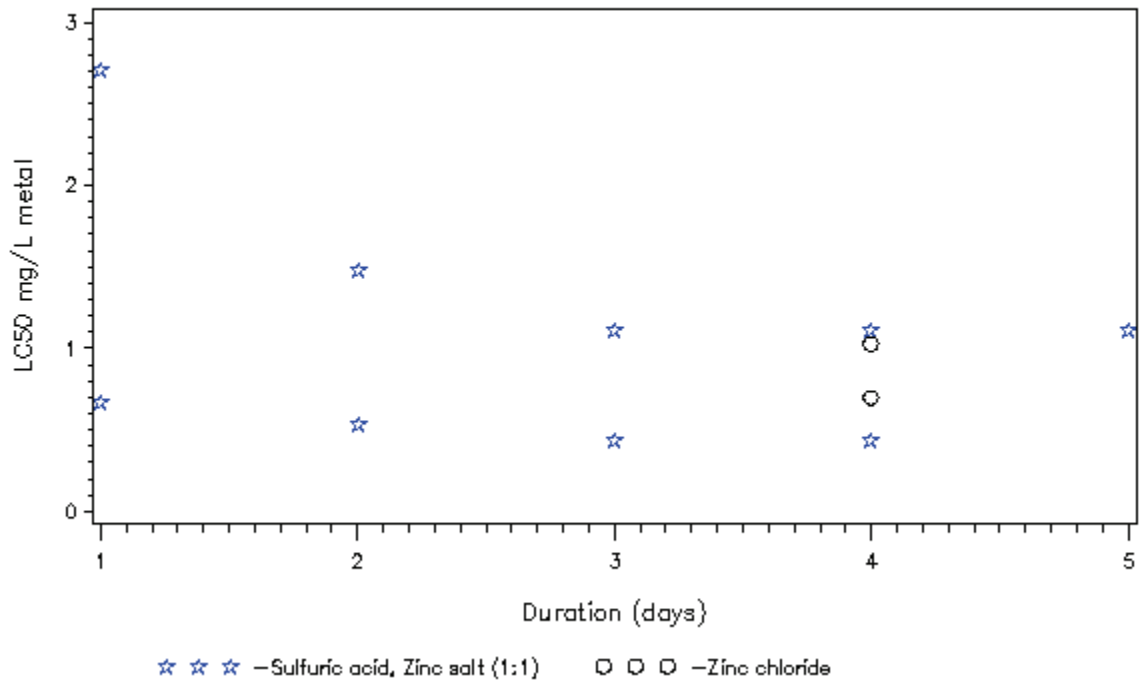


S – Static Test, F – Flowthrough Test, R –Renewal Test

Physa heterostropha exposed to Zinc at T>15C in moderate water

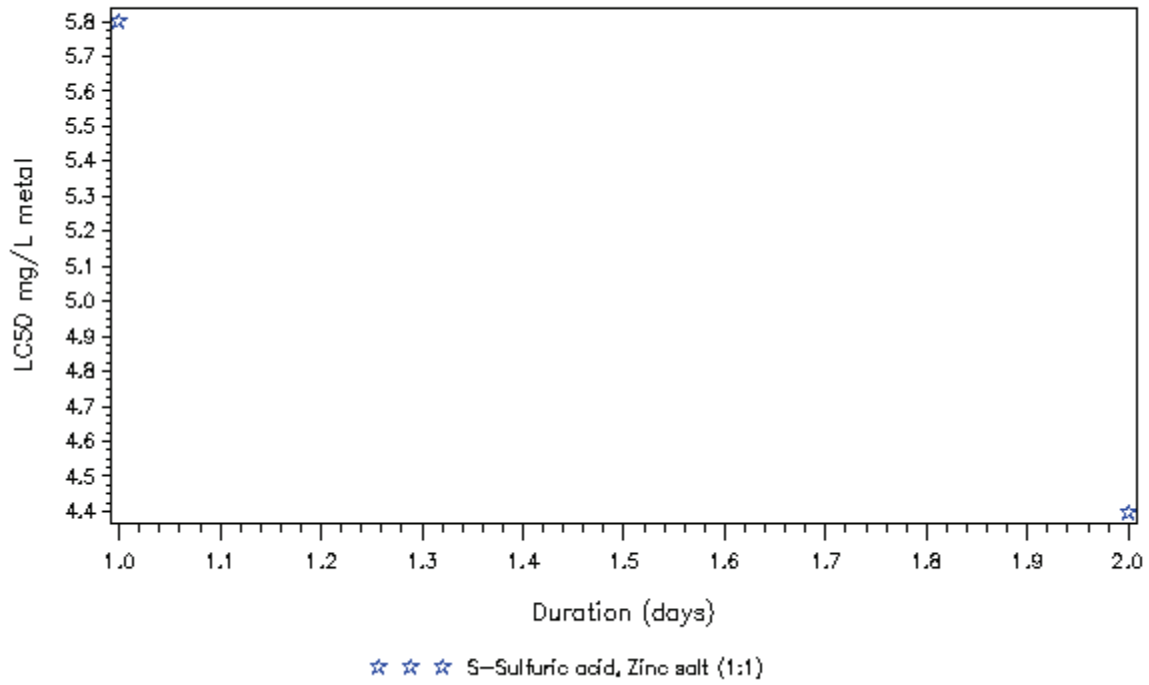


Physa heterostropha exposed to Zinc at T>15C in soft water

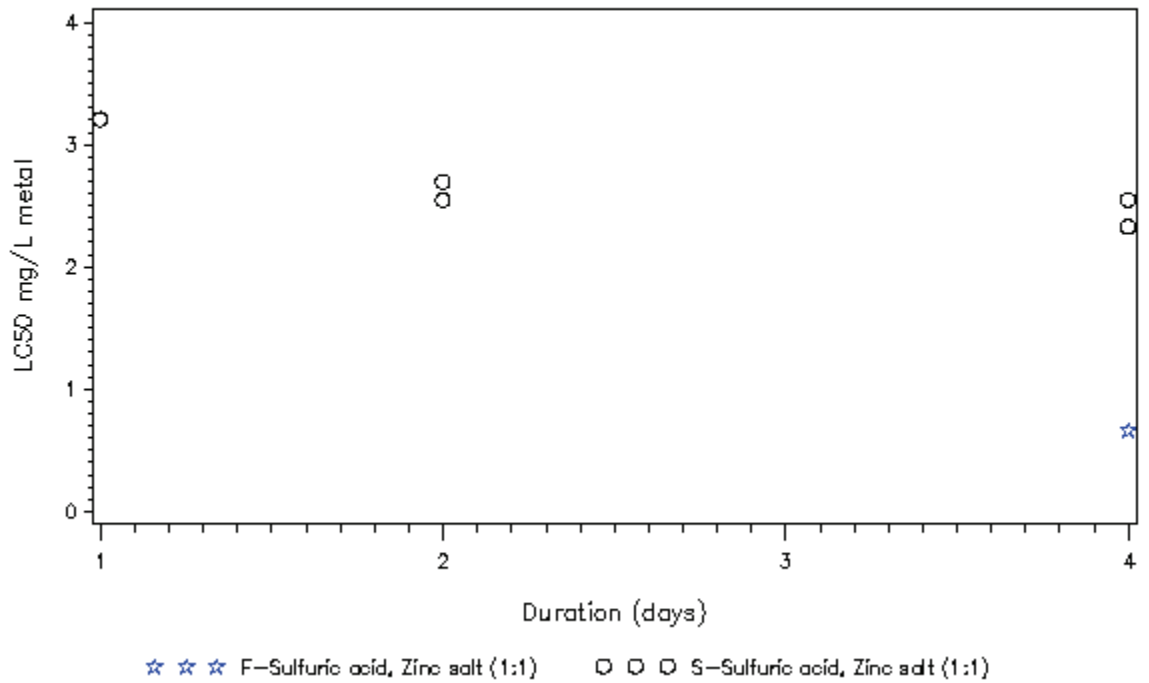


S – Static Test, F – Flowthrough Test, R –Renewal Test

Physa integra exposed to Zinc at T>15C in hard water

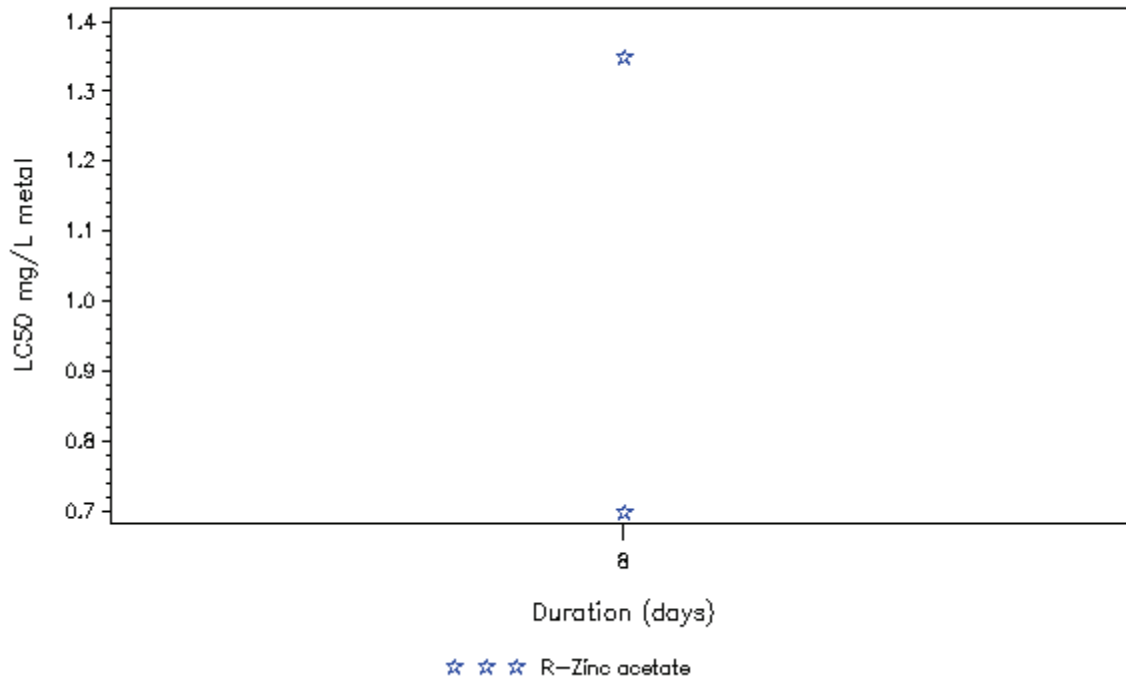


Pimephales promelas exposed to Zinc at T<=15C in soft water

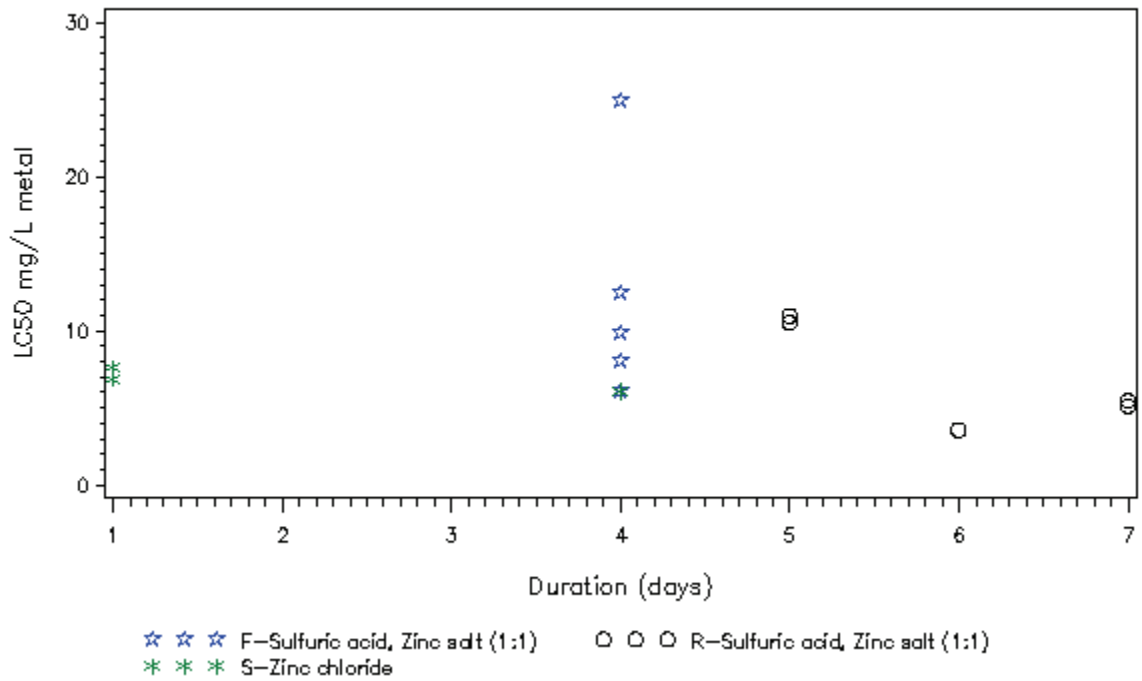


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Zinc at T>15C in hard water

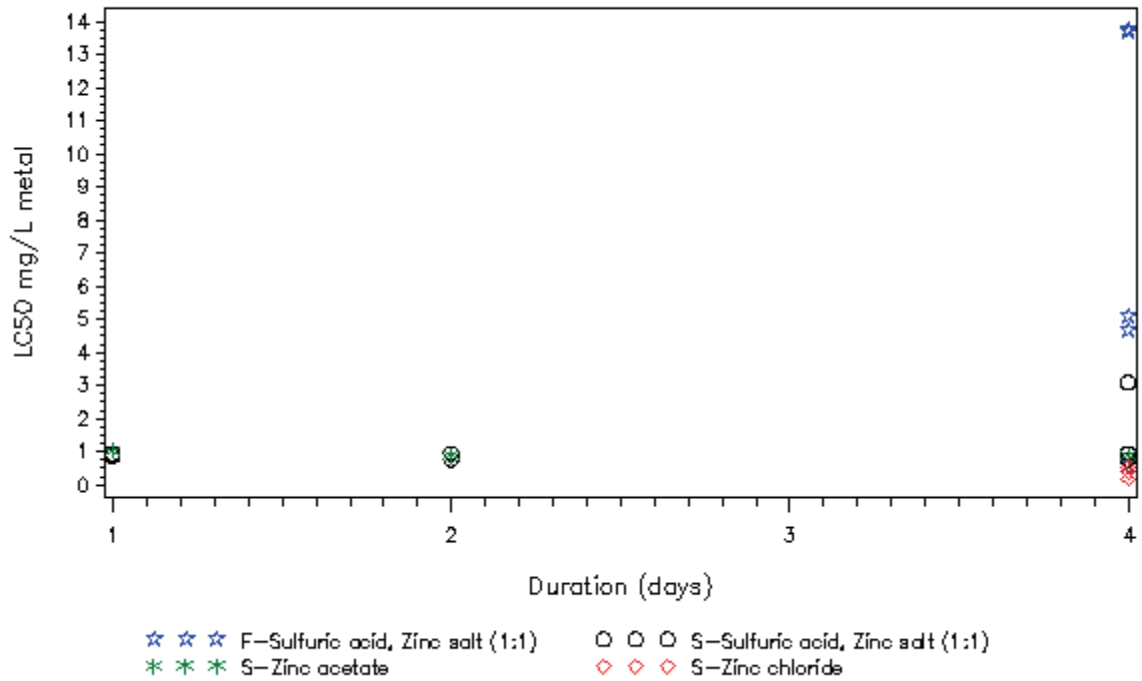


Pimephales promelas exposed to Zinc at T>15C in moderate water

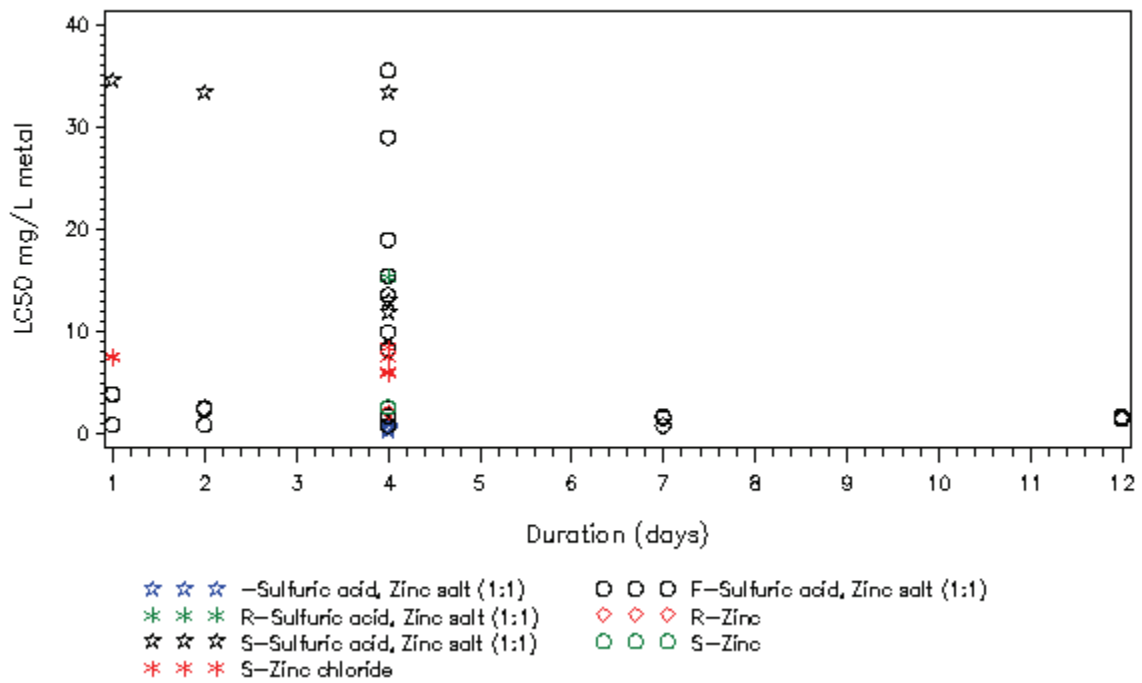


S – Static Test, F – Flowthrough Test, R –Renewal Test

Pimephales promelas exposed to Zinc at T>15C in soft water

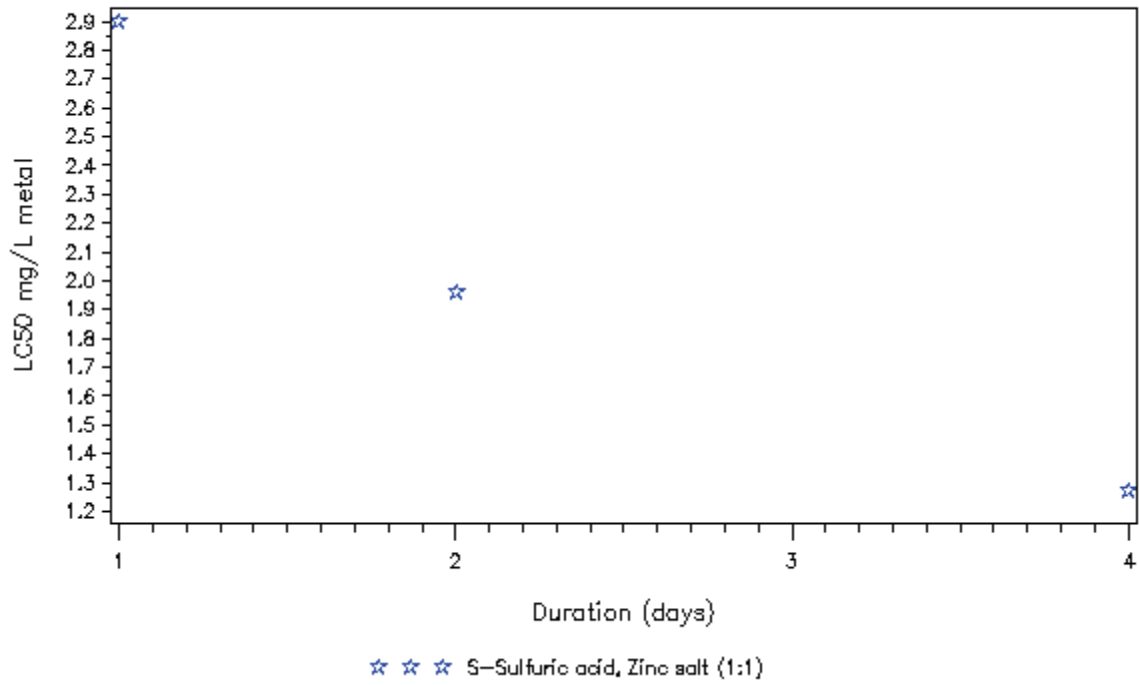


Pimephales promelas exposed to Zinc at T>15C in very hard water

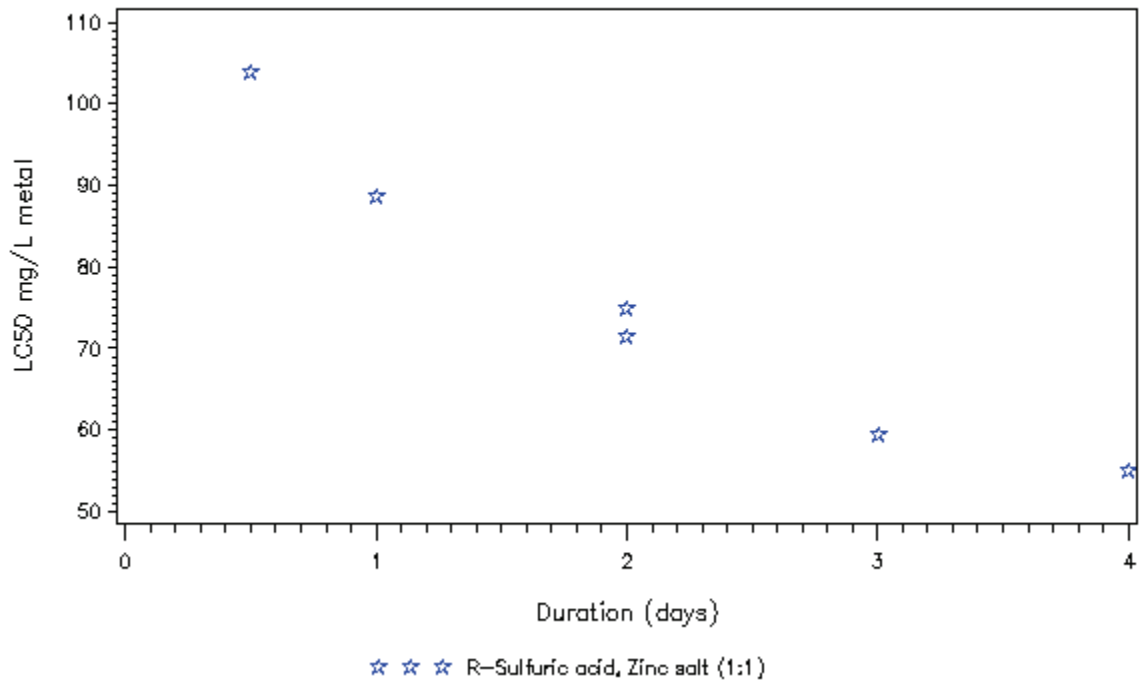


S – Static Test, F – Flowthrough Test, R –Renewal Test

Poecilia reticulata exposed to Zinc at T>15C in soft water

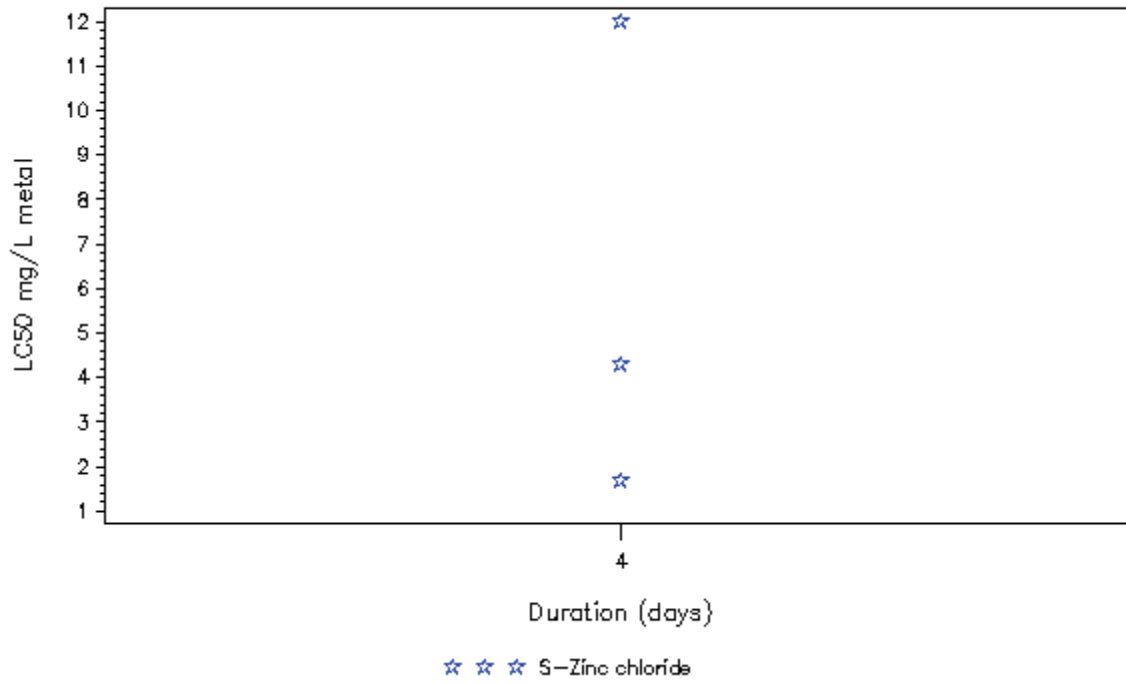


Poecilia reticulata exposed to Zinc at T>15C in very hard water

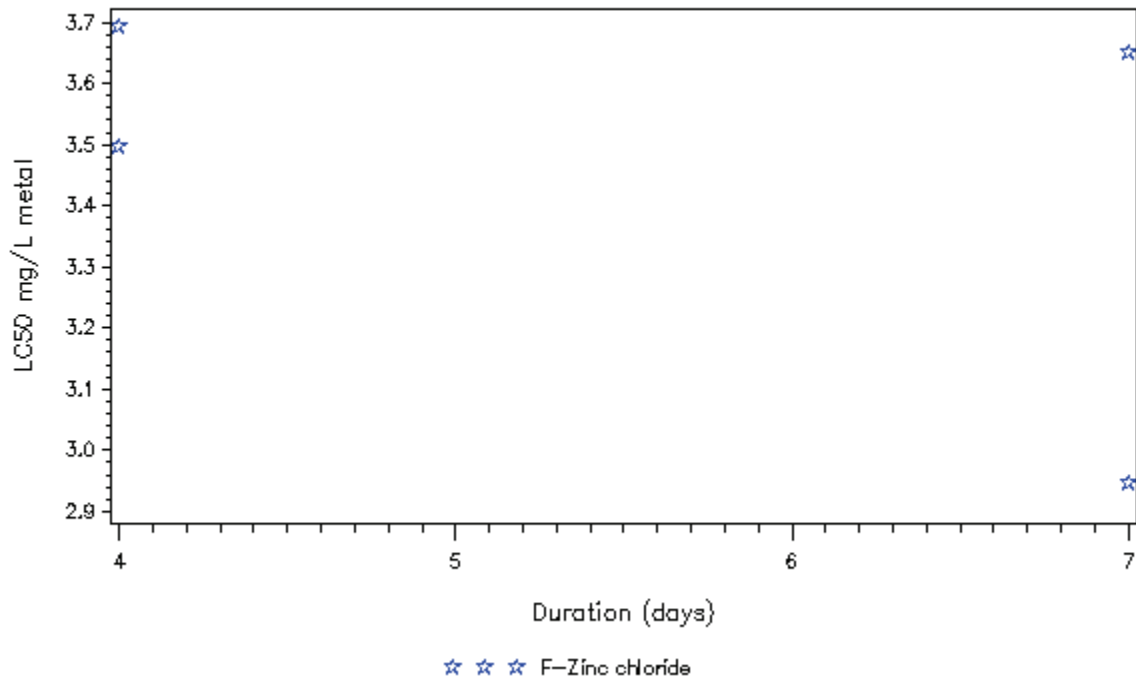


S – Static Test, F – Flowthrough Test, R –Renewal Test

Ptychocheilus lucius exposed to Zinc at T>15C in very hard water

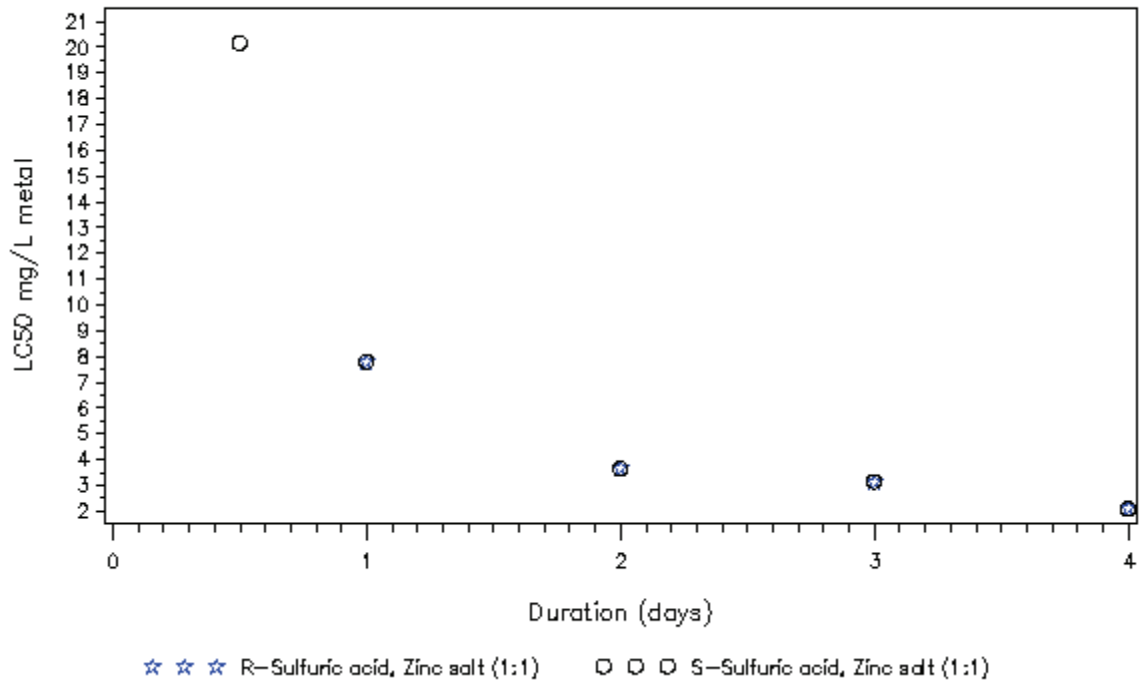


Ptychocheilus oregonensis exposed to Zinc at T<=15C in soft water

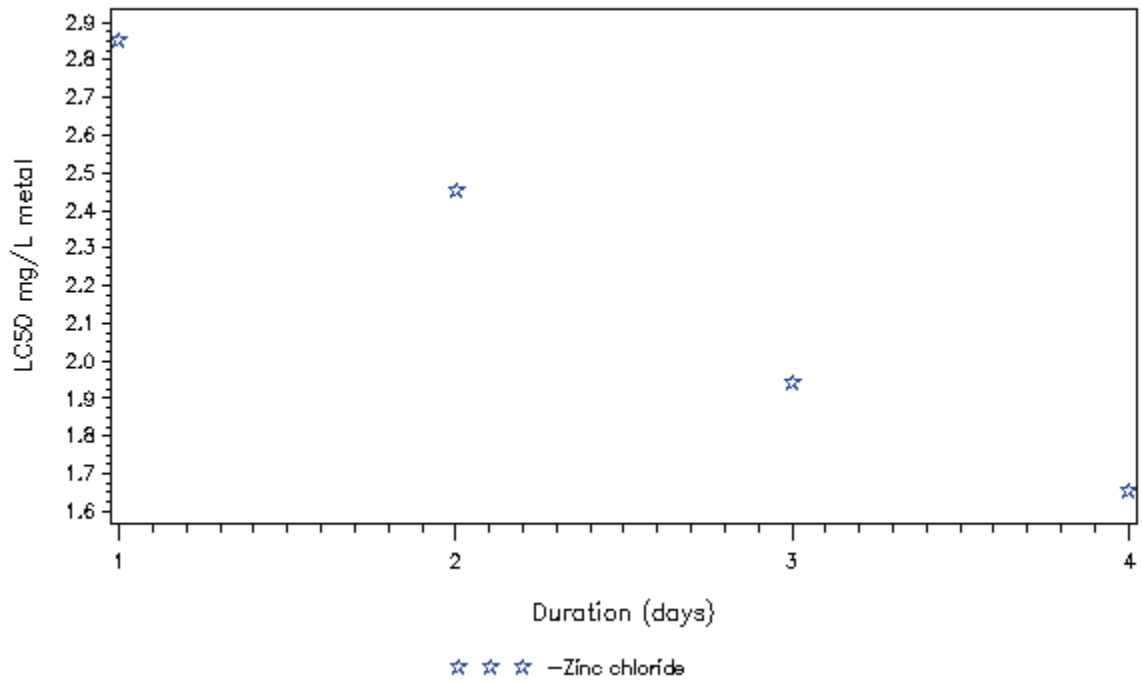


S – Static Test, F – Flowthrough Test, R –Renewal Test

Rana hexadactyla exposed to Zinc at T<=15C in soft water

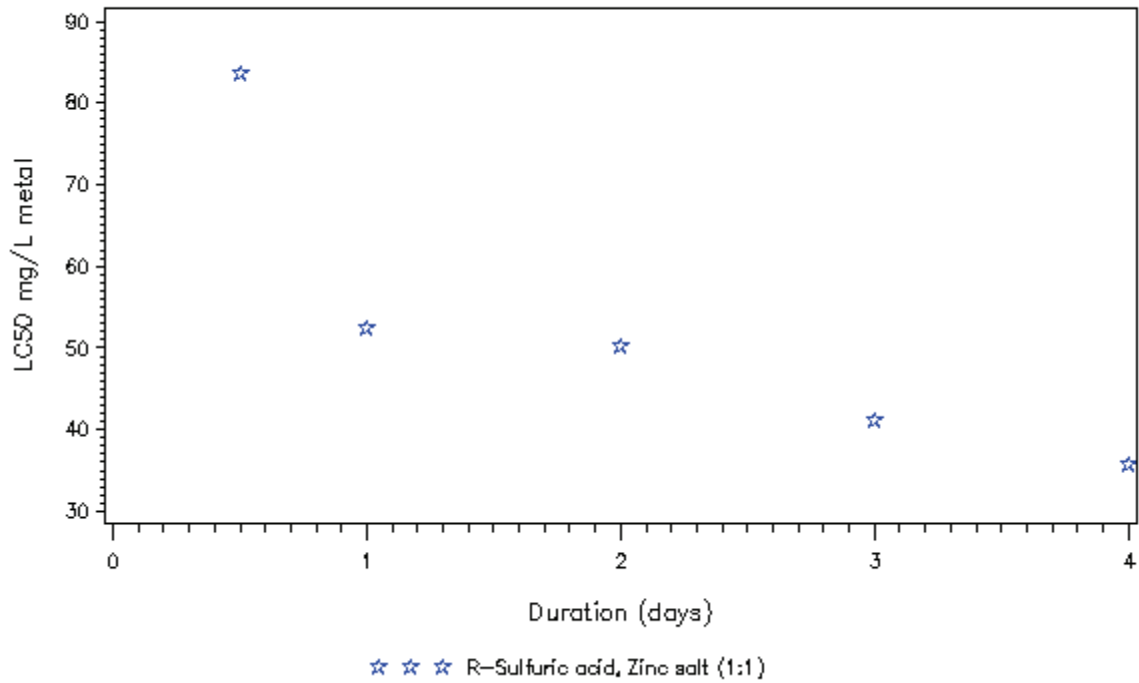


Ranatra elongata exposed to Zinc at T>15C in moderate water

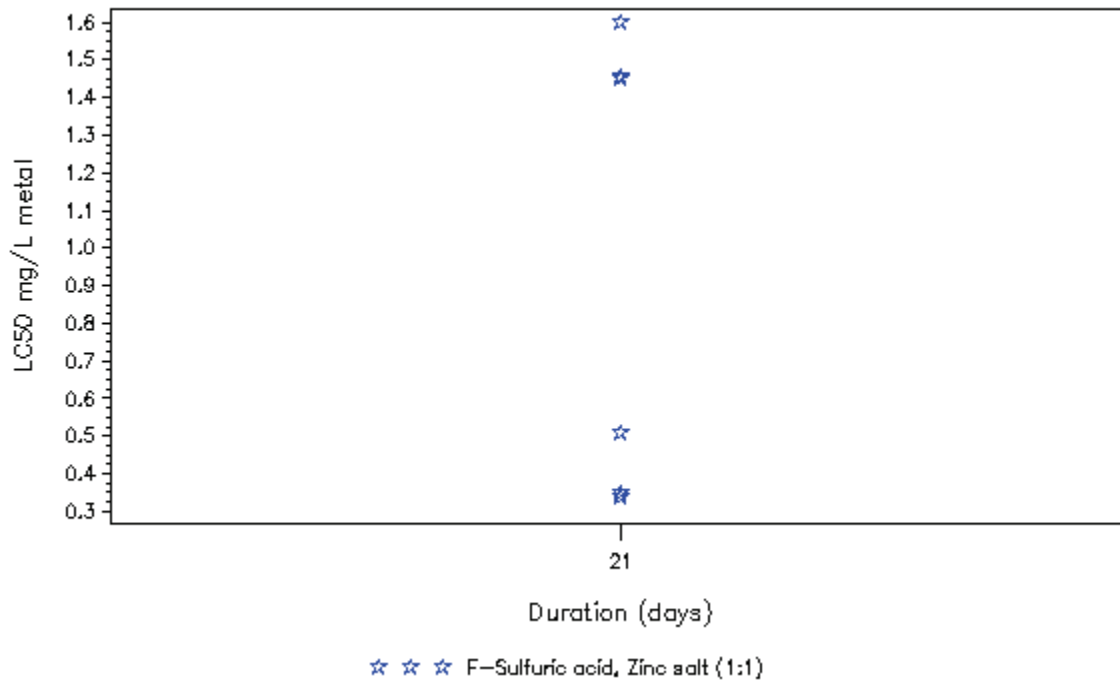


S – Static Test, F – Flowthrough Test, R –Renewal Test

Rasbora daniconius neilgeriens exposed to Zinc at T>15C in very hard water

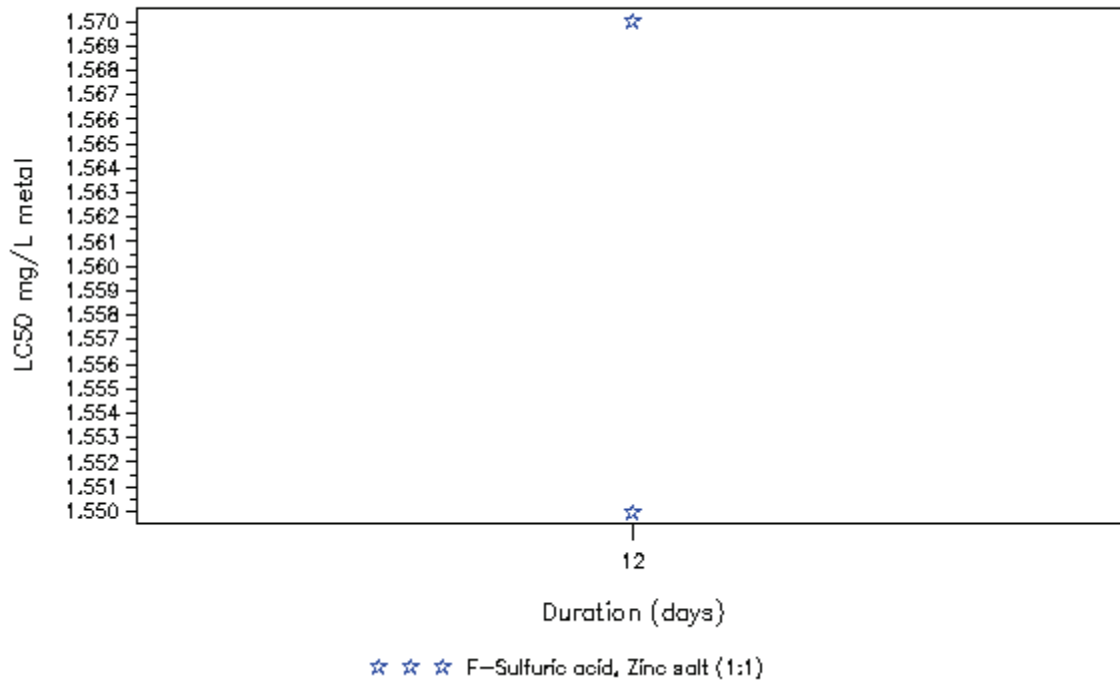


Salmo salar exposed to Zinc at T<=15C in soft water

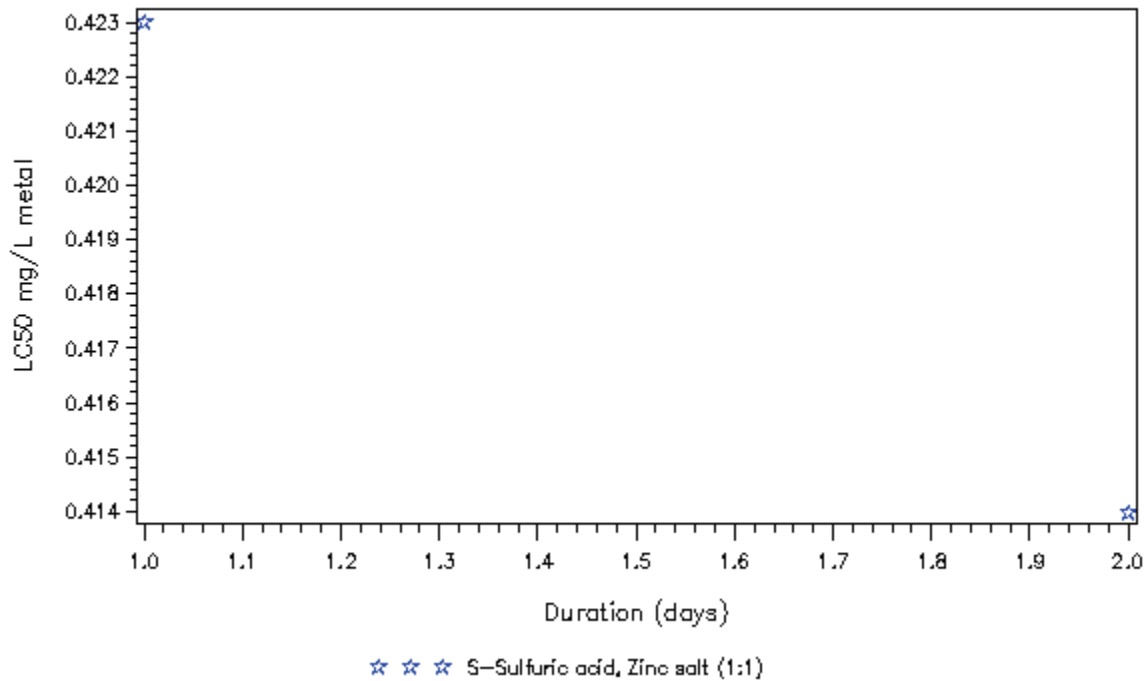


S – Static Test, F – Flowthrough Test, R –Renewal Test

Salvelinus fontinalis exposed to Zinc at T>15C in very hard water

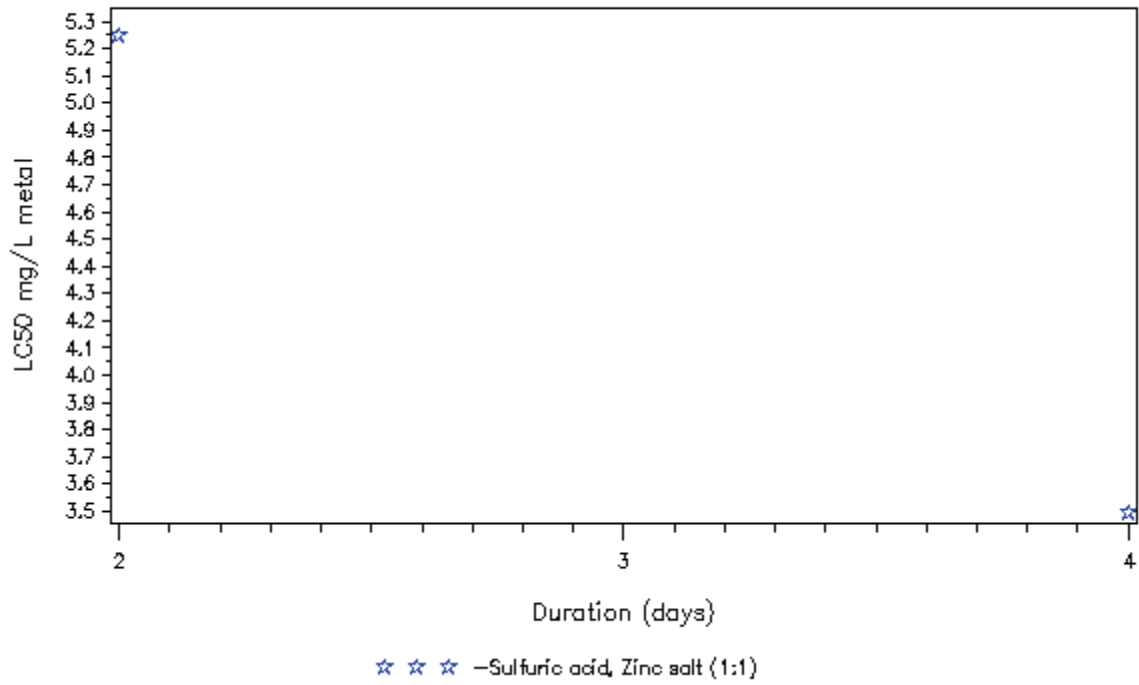


Spirostomum ambiguum exposed to Zinc at T>15C in very soft water

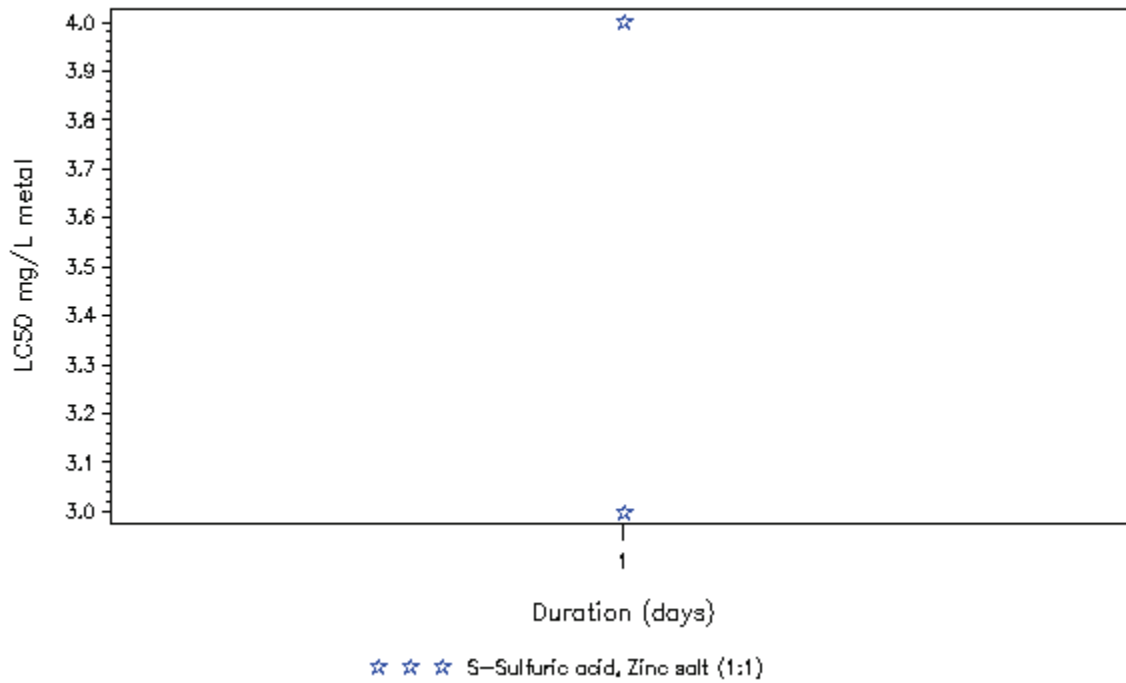


S – Static Test, F – Flowthrough Test, R –Renewal Test

Stenocypris malcolmsoni exposed to Zinc at T>15C in soft water

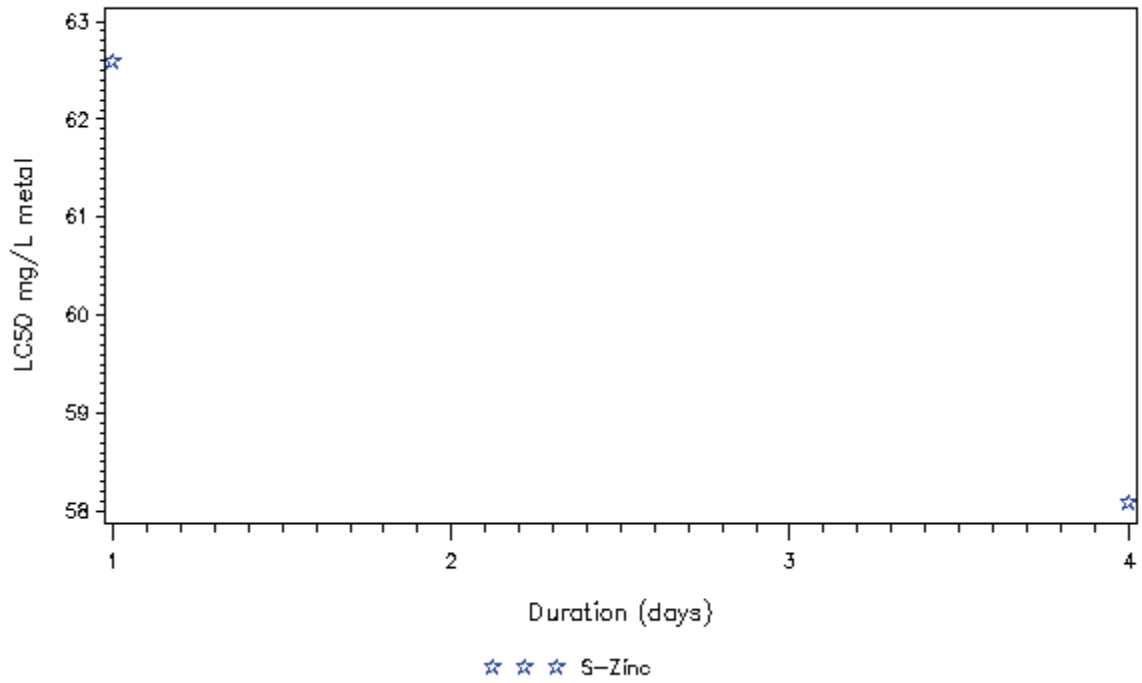


Streptocephalus proboscideus exposed to Zinc at T>15C in moderate water

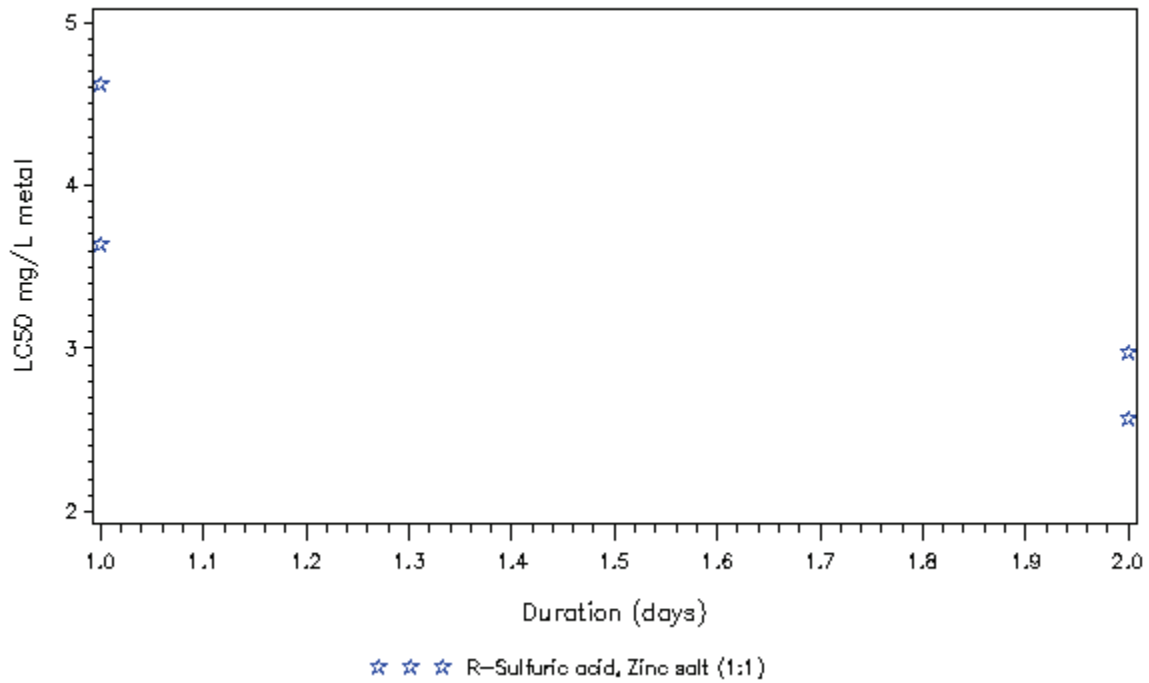


S – Static Test, F – Flowthrough Test, R –Renewal Test

Trichoptera exposed to Zinc at T>15C in soft water

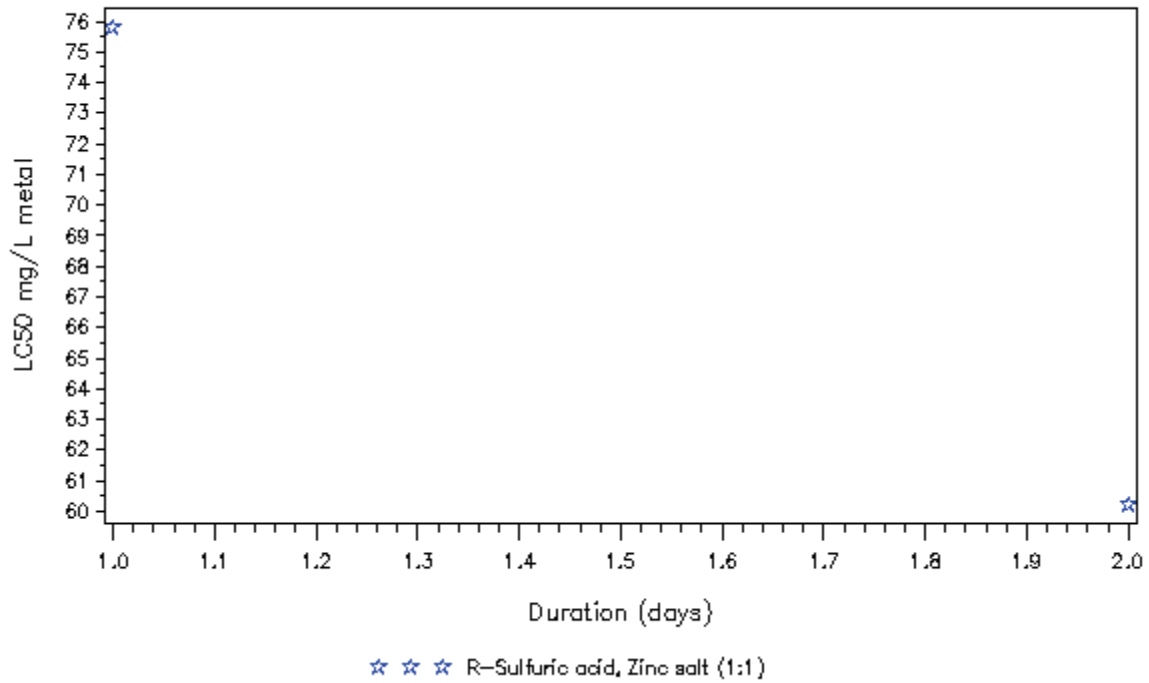


Tubifex tubifex exposed to Zinc at T>15C in soft water

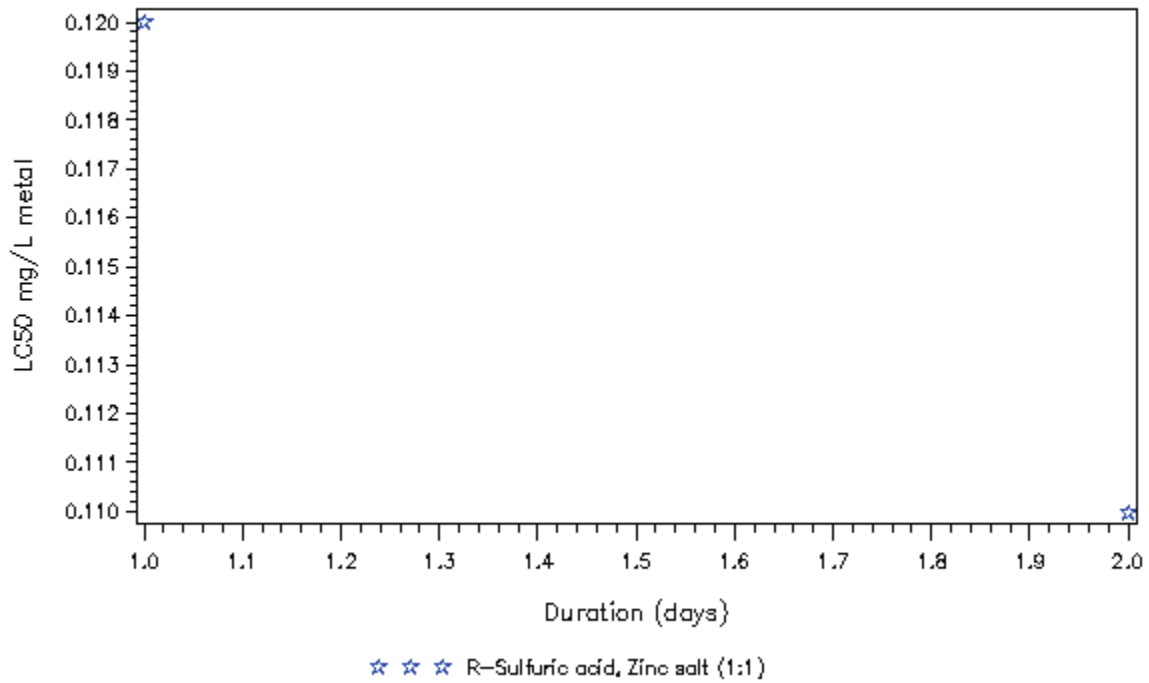


S – Static Test, F – Flowthrough Test, R –Renewal Test

Tubifex tubifex exposed to Zinc at T>15C in very hard water

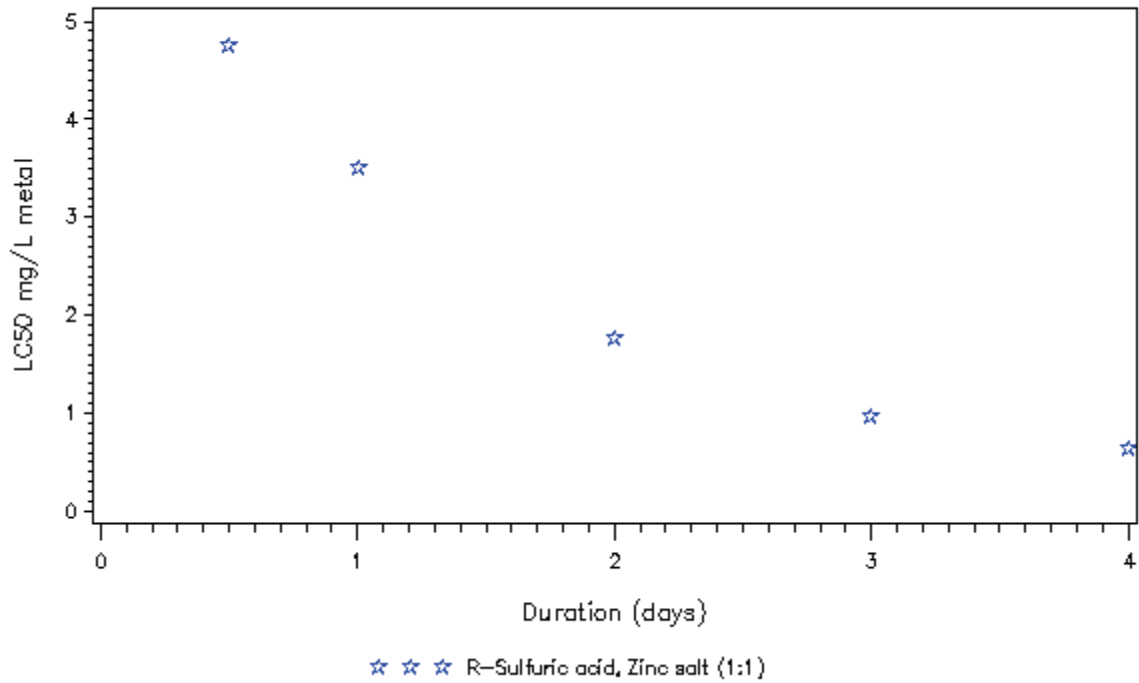


Tubifex tubifex exposed to Zinc at T>15C in very soft water

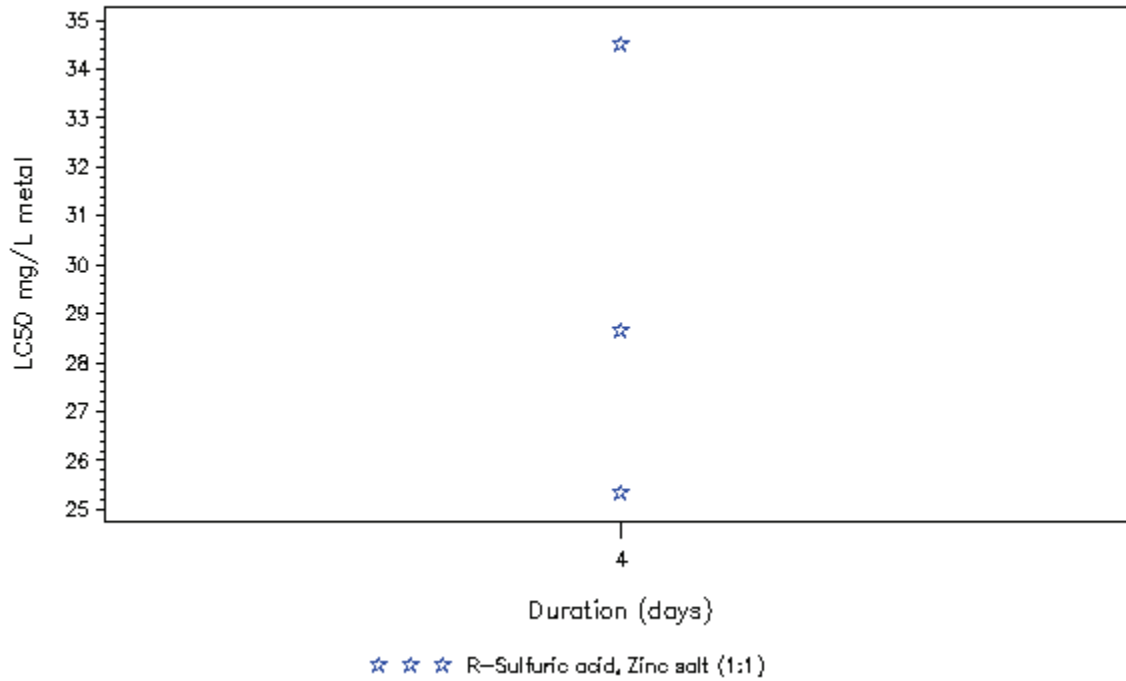


S – Static Test, F – Flowthrough Test, R –Renewal Test

Viviparus bengalensis exposed to Zinc at T>15C in hard water

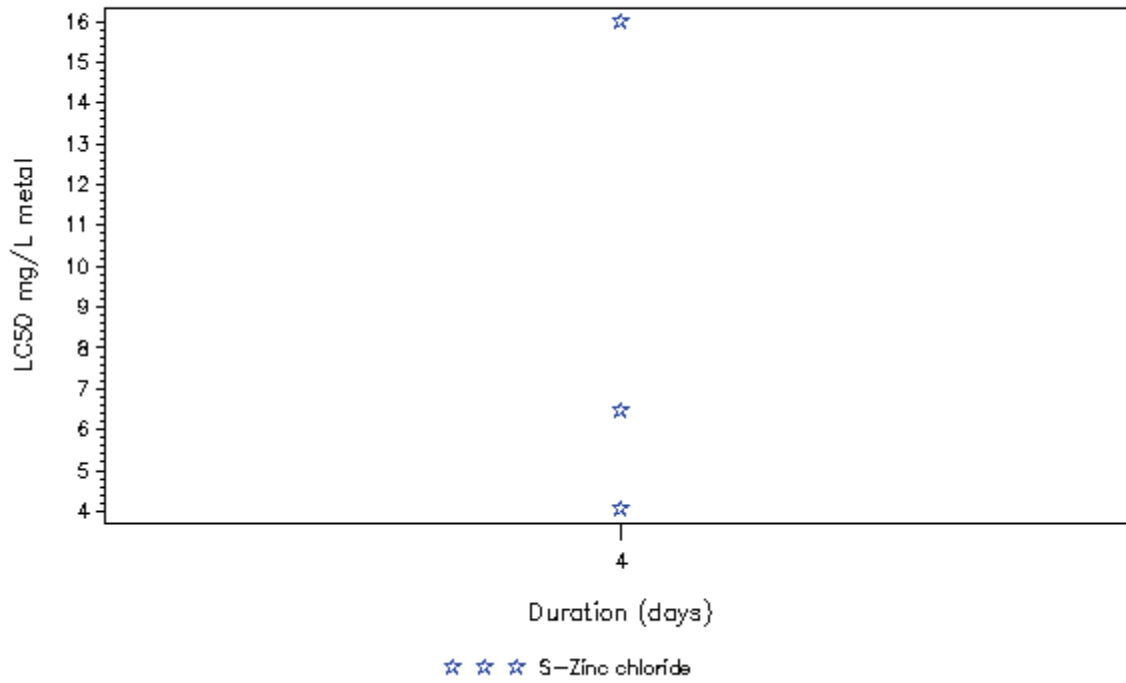


Xenopus laevis exposed to Zinc at T>15C in moderate water

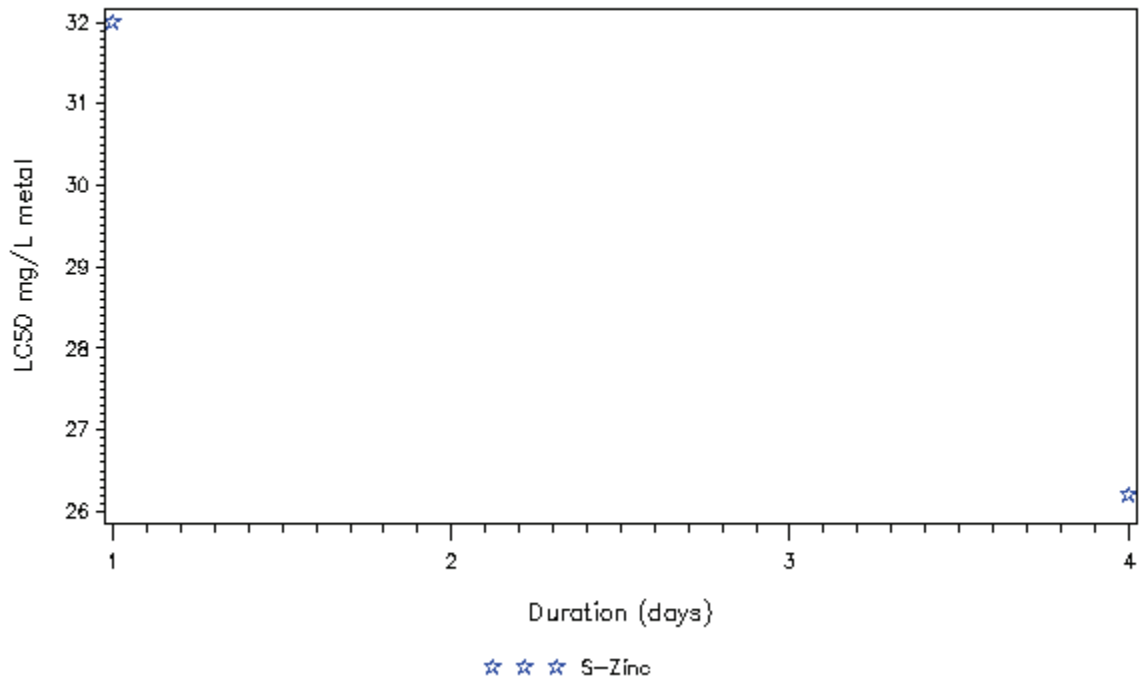


S – Static Test, F – Flowthrough Test, R –Renewal Test

Xyrauchen texanus exposed to Zinc at T>15C in very hard water



Zygoptera exposed to Zinc at T>15C in soft water



S – Static Test, F – Flowthrough Test, R –Renewal Test

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