

Appendix H. Data Tables for Methylmercury Bioaccumulation Factors, Camp Far West Reservoir, California.

Table H1. Methylmercury bioaccumulation factors for spotted bass, 2002–03, Camp Far West Reservoir, California.

[mm, millimeter; µg/g, microgram per gram; ng/L, nanogram per liter; Hg, mercury; L/kg, liter per kilogram; BAF, bioaccumulation factor]

Total	Number of fish samples	Arithmetic			Standard			Average			Standard deviation			Arithmetic mean			Spotted bass fillet			Spotted bass whole body			Spotted bass whole body		
		mean total Hg in fillet (µg/g wet)	total Hg in fillet (µg/g wet)	total Hg in whole body (µg/g wet)	mean total Hg in whole body (µg/g wet)	total Hg in whole body (µg/g wet)	total Hg in whole body (µg/g wet)	total length (mm)	total length (mm)	total length (mm)	total length (mm)	total length (mm)	total length (mm)	mean methylmercury in filtered water (ng/L)	mean methylmercury in filtered water (ng/L)	mean methylmercury in filtered water (ng/L)	total methylmercury in BAF (L/kg) (wet basis)	total methylmercury in BAF (L/kg) (wet basis)	total methylmercury in BAF (L/kg) (wet basis)	total methylmercury in BAF (L/kg) (wet basis)	total methylmercury in BAF (L/kg) (wet basis)	total methylmercury in BAF (L/kg) (wet basis)	total methylmercury in BAF (L/kg) (wet basis)	total methylmercury in BAF (L/kg) (wet basis)	total methylmercury in BAF (L/kg) (wet basis)
0-100	46	0.12	0.05	0.10	0.10	0.04	0.04	71	9	0.04	0.04	0.04	0.04	0.04	0.04	0.04	2.9E+06	2.9E+06	2.9E+06	2.5E+06	2.5E+06	2.5E+06	6.4	6.4	6.4
101-200	44	0.26	0.06	0.20	0.20	0.05	0.05	158	26	0.04	0.04	0.04	0.04	0.04	0.04	0.04	6.5E+06	6.5E+06	6.5E+06	5.1E+06	5.1E+06	5.1E+06	6.7	6.7	6.7
201-300	30	0.39	0.17	0.31	0.31	0.12	0.12	239	30	0.04	0.04	0.04	0.04	0.04	0.04	0.04	9.9E+06	9.9E+06	9.9E+06	7.6E+06	7.6E+06	7.6E+06	6.9	6.9	6.9
301-400	46	0.69	0.18	0.53	0.53	0.14	0.14	347	29	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.7E+07	1.7E+07	1.7E+07	1.3E+07	1.3E+07	1.3E+07	7.1	7.1	7.1
401+	14	1.02	0.31	0.77	0.77	0.23	0.23	420	11	0.04	0.04	0.04	0.04	0.04	0.04	0.04	2.5E+07	2.5E+07	2.5E+07	1.9E+07	1.9E+07	1.9E+07	7.3	7.3	7.3
all	180	0.42	0.31	0.32	0.32	0.23	0.23	218	121	0.04	0.04	0.04	0.04	0.04	0.04	0.04	1.0E+07	1.0E+07	1.0E+07	8.0E+06	8.0E+06	8.0E+06	6.9	6.9	6.9

Table H2. Methylmercury bioaccumulation factors for bluegill, 2002–03, Camp Far West Reservoir, California.

[mm, millimeter; µg/g, microgram per gram; ng/L, nanogram per liter; Hg, mercury; L/kg, liter per kilogram; BAF, bioaccumulation factor]

Total length (mm)	Number of fish samples	Arithmetic mean total Hg in fillet (µg/g wet)	Standard deviation total Hg in fillet (µg/g wet)	Arithmetic mean total Hg in whole body (µg/g wet)	Standard deviation total Hg in whole body (µg/g wet)	Average total length (mm)	Standard deviation total length (mm)	Arithmetic mean methylmercury in filtered water (ng/L)	Bluegill fillet methylmercury BAF (L/kg) (wet basis)	Bluegill fillet methylmercury log BAF (wet basis)	Bluegill whole body methylmercury BAF (L/kg) (wet basis)	Bluegill methylmercury log BAF (wet basis)
0-75	15	0.11	0.02	0.09	0.02	50	10	0.04	2.9E+06	6.5	2.2E+06	6.3
76-100	46	0.14	0.05	0.11	0.04	90	7	0.04	3.4E+06	6.5	2.6E+06	6.4
101-125	23	0.15	0.05	0.11	0.04	112	6	0.04	3.7E+06	6.6	2.8E+06	6.5
126-150	24	0.24	0.14	0.19	0.11	138	7	0.04	6.1E+06	6.8	4.7E+06	6.7
150 +	12	0.22	0.06	0.17	0.05	162	11	0.04	5.5E+06	6.7	4.3E+06	6.6
all	120	0.17	0.11	0.13	0.07	106	33	0.04	4.2E+06	6.6	3.2E+06	6.5

Table H3. Methylmercury bioaccumulation factors for threadfin shad, 2002–03, Camp Far West Reservoir, California.

[mm, millimeter; µg/g, microgram per gram; ng/L, nanogram per liter; Hg, mercury; L/kg, liter per kilogram; BAF, bioaccumulation factor]

Total length (mm)	Number of fish samples	Arithmetic mean total Hg in whole body (µg/g wet)	Standard deviation total Hg in whole body (µg/g wet)	Average total length (mm)	Standard deviation total length (mm)	Arithmetic mean methylmercury in filtered water (ng/L)	Threadfin shad whole body methylmercury BAF (L/kg) (wet basis)	Threadfin shad whole body methylmercury log BAF (wet basis)
0-60	44	0.07	0.01	51	9	0.04	1.7E+06	6.2
61-90	41	0.12	0.04	80	8	0.04	3.1E+06	6.5
91 +	19	0.17	0.07	102	8	0.04	4.1E+06	6.6
all	104	0.11	0.05	72	21	0.04	2.7E+06	6.4

Table H4. Methylmercury bioaccumulation factors for crayfish, 2002–03, Camp Far West Reservoir, California.

[mm, millimeter; µg/g, microgram per gram; ng/L, nanogram per liter; Hg, mercury; L/kg, liter per kilogram; BAF, bioaccumulation factor]

Total length (mm)	Number of crayfish samples	Arithmetic mean methylmercury in whole body (µg/g wet)	Standard deviation methylmercury in whole body (µg/g wet)	Average total length (mm)	Standard deviation total length (mm)	Arithmetic mean methylmercury in filtered water (ng/L)	Crayfish whole body methylmercury BAF (L/kg) (wet basis)	Crayfish whole body methylmercury log BAF (wet basis)
0-60	12	0.027	0.008	52	8	0.04	6.7E+05	5.8
61-80	15	0.038	0.019	72	6	0.04	9.6E+05	6.0
81 +	17	0.043	0.024	89	7	0.04	1.1E+06	6.0
all	44	0.037	0.024	73	17	0.04	9.3E+05	6.0

Table H5. Bioaccumulation factors for mayfly nymphs and midge larvae, 2002, Camp Far West Reservoir, California.

[mm, millimeter; µg/g, microgram per gram; ng/L, nanogram per liter; Hg, mercury; L/kg, liter per kilogram; BAF, bioaccumulation factor]

Invertebrate Taxon	Number of invertebrate samples	Arithmetic mean methylmercury in whole body (µg/g wet)	Standard deviation methylmercury in whole body (µg/g wet)	Arithmetic mean methylmercury in filtered water (ng/L)	Invertebrate methylmercury BAF (L/kg) (wet basis)	Invertebrate methylmercury log BAF (wet basis)
Mayfly nymphs	7	0.024	0.011	0.04	5.9E+05	5.8
Midge larvae	9	0.019	0.009	0.04	4.7E+05	5.7

Table H6. Bioaccumulation factors for zooplankton, 2001–03, Camp Far West Reservoir, California.

[Zooplankton methylmercury concentrations converted from dry weight to wet weight assuming water content of 94 percent. mm, millimeter; µg/g, microgram per gram; ng/L, nanogram per liter; Hg, mercury; L/kg, liter per kilogram; BAF, bioaccumulation factor]

Season	Number of samples	Arithmetic mean methylmercury			Zooplankton methylmercury			
		In whole zooplankton body (µg/g dry)	In whole zooplankton body (µg/g wet)	In filtered water (ng/L)	BAF (L/kg) (wet basis)	log BAF (wet basis)	BAF (L/kg) (dry basis)	log BAF (dry basis)
Fall	3	0.004	0.0002	0.04	6.0E+03	3.8	1.0E+05	5.0
Winter	6	0.045	0.0027	0.04	6.8E+04	4.8	1.1E+06	6.1
Spring	8	0.077	0.0046	0.04	1.2E+05	5.1	1.9E+06	6.3
Summer	7	0.027	0.0016	0.04	4.1E+04	4.6	6.8E+05	5.8
Overall	21	0.038	0.0023	0.04	5.7E+04	4.8	9.6E+05	6.0