

1 **Supplementary Information for: Can preserved museum specimens be used to**
2 **reconstruct fish mercury burden and sources through time?**

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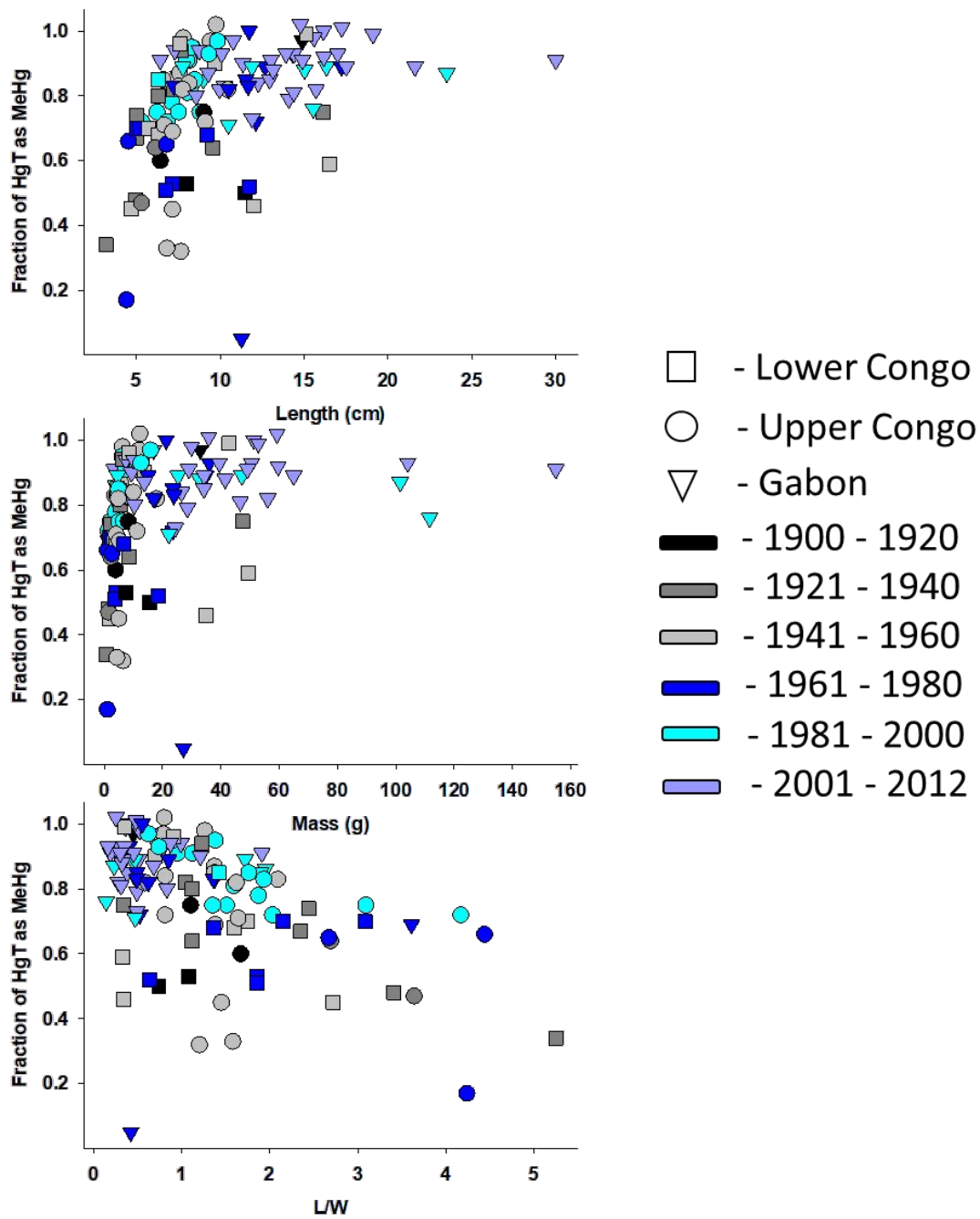
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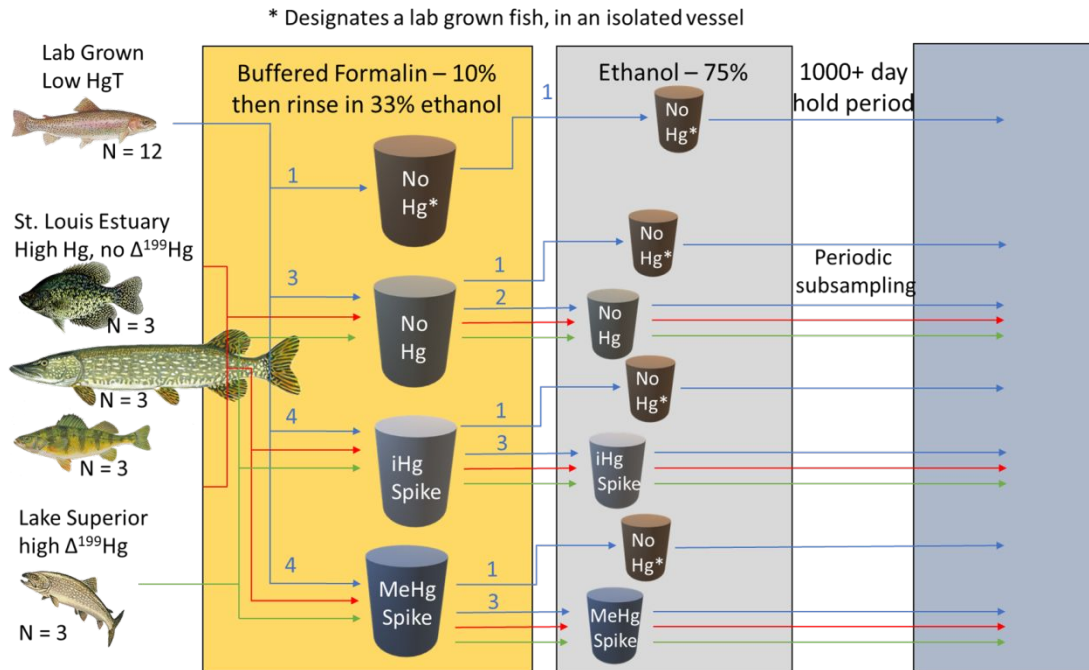
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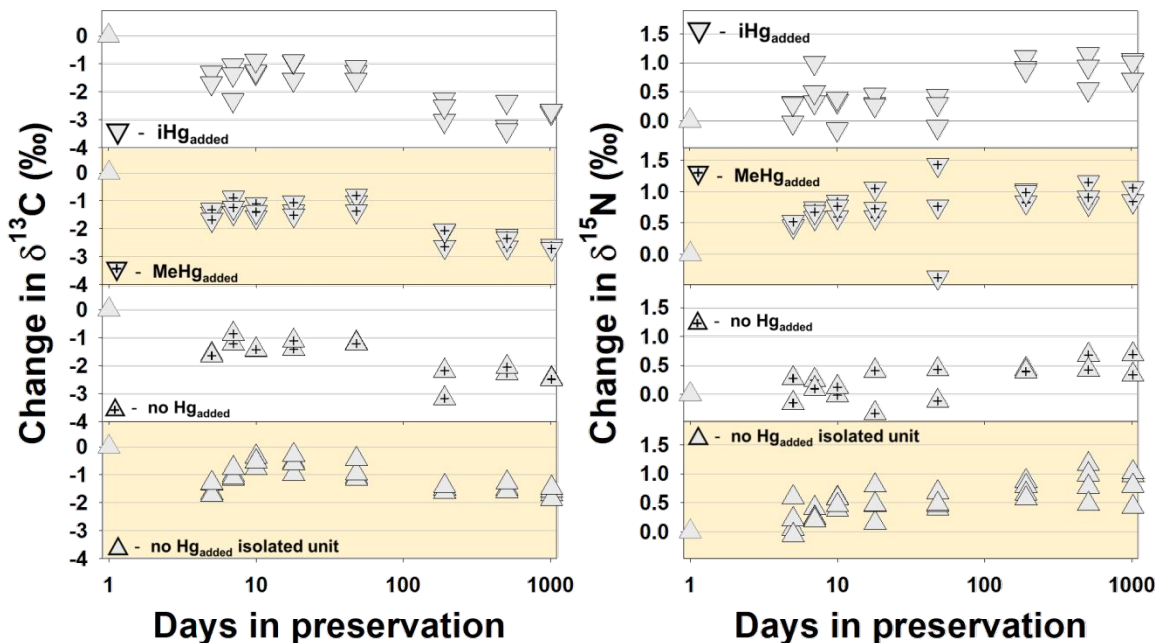
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41 *Figure S1: The fraction of total mercury as methylmercury versus length, weight and length weight⁻¹ for museum fishes*
 42 *collected between 1900 and 2012, contained within the Royal Museum for Central Africa. Data may be found publicly*
 43 *accessible through the corresponding USGS data release.¹*



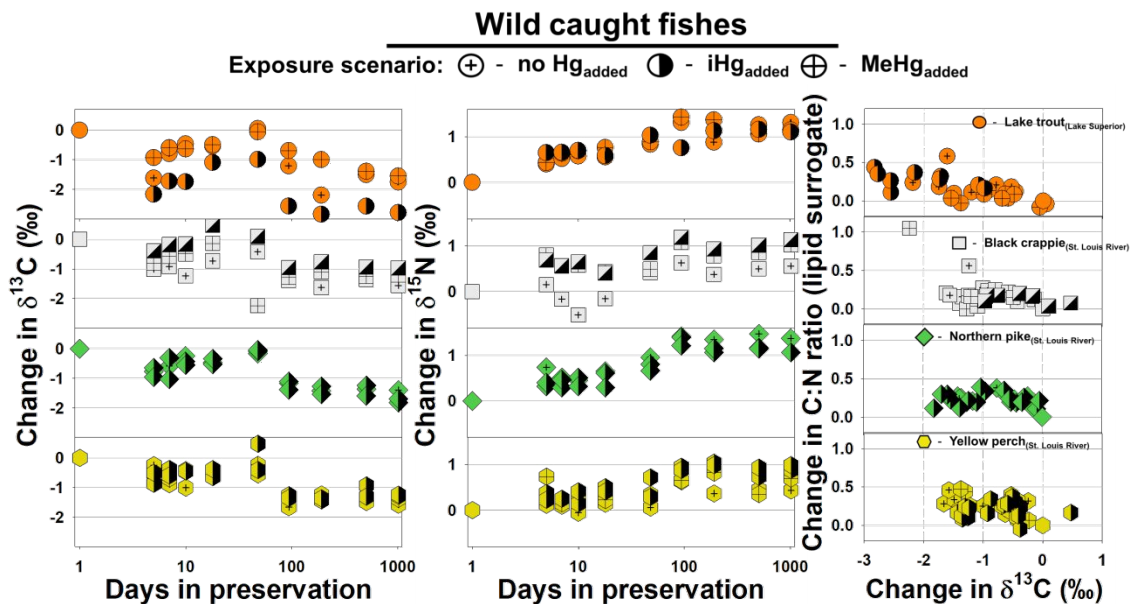
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45 Figure S2: A schematic of the experimental design highlighting the movement of laboratory grown fishes
 46 (*Oncorhynchus mykiss*, *Pomoxis nigromaculatus*, *Esox lucius*, *Perca flavescens*, and *Salvelinus namaycush*).



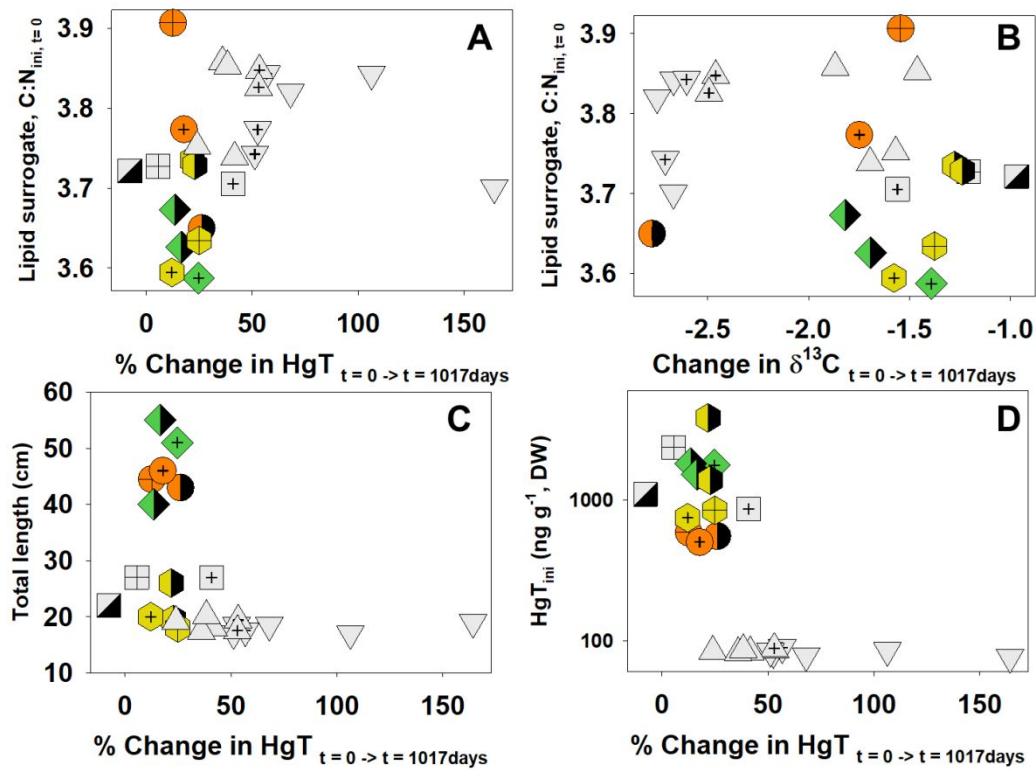
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48 Figure S3: Changes in the carbon (left) and nitrogen (right) isotope values over various Hg-exposure scenarios for
 49 laboratory grown rainbow trout (*Oncorhynchus mykiss*). Upright triangles at day 1 represent the initial starting
 50 conditions. Symbols following day one reflect differences in the Hg exposure scenario where upright with no cross is
 51 individual fish preserved in isolation, upright with a cross represents co-mingled with wild fishes but no Hg
 52 amendment, upside down with a cross represents co-mingled with wild fishes and exposed to additional laboratory
 53 methylmercury, and, upside down with no cross represents co-mingled with wild fishes and exposed to additional
 54 laboratory inorganic mercury. Data may be found publicly accessible through the corresponding USGS data release.¹



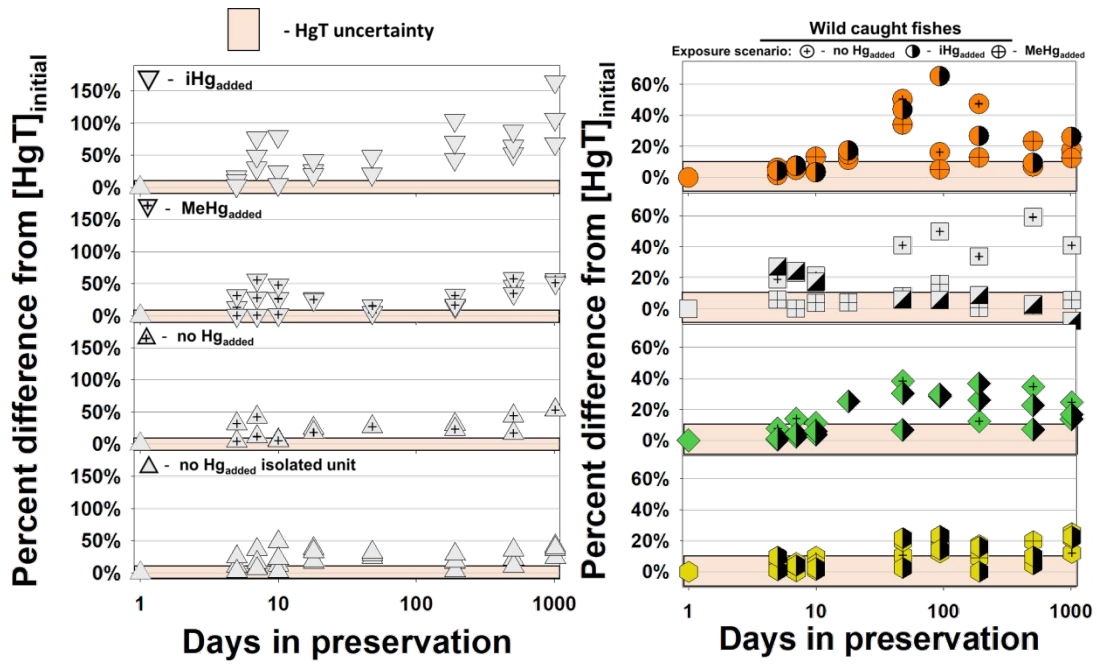
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56 *Figure S4: Changes in the carbon (left) and nitrogen (middle) isotope values over various Hg-exposure scenarios for*
 57 *wild caught fishes. The extent of change in carbon isotope values is linked to the C:N ratio, a surrogate for lipid*
 58 *content (right). Symbol shape and color signify the fish species. The fill of the shape indicates the mercury exposure*
 59 *scenario with no fill representing initial conditions, small cross representing co-mingled fishes without laboratory*
 60 *mercury added, half black representing co-mingled fishes with inorganic mercury added and large cross representing*
 61 *co-mingled fishes with methylmercury added. Data may be found publicly accessible through the corresponding USGS*
 62 *data release.¹*



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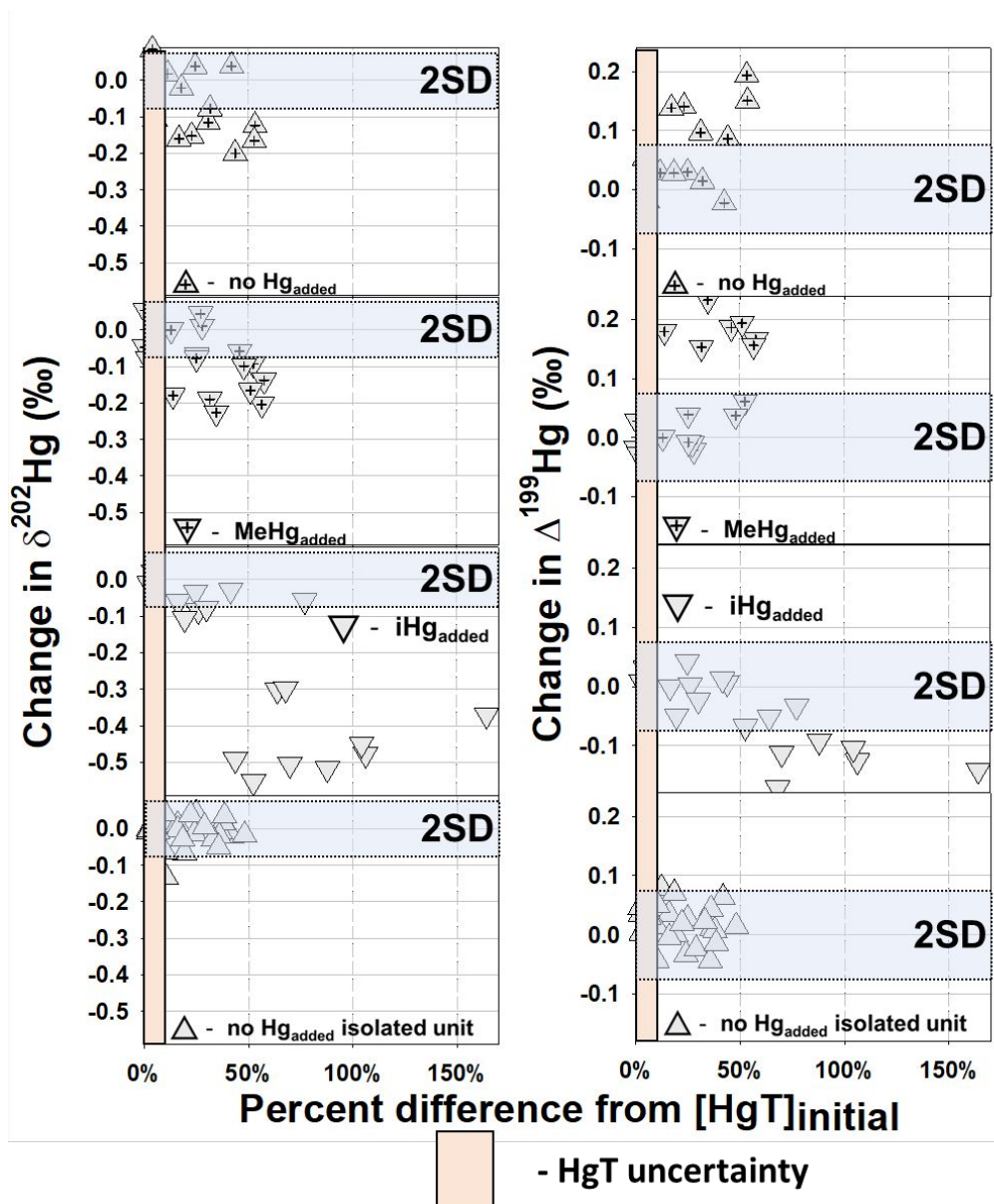
64 Figure S5: A) The influence of initial C:N ratio on the percent change in HgT at 1017 days. B) The influence of initial
 65 C:N ratio on the change in δ¹³C at 1017 days. C) The influence of length on the percent change in HgT at 1017 days.
 66 D) The influence of initial HgT on the percent change in HgT at 1017 days. Symbols are the same as in Figure S4.
 67 Data may be found publicly accessible through the corresponding USGS data release.¹



68

69 Figure S6: Left and right: Hg concentration changes over differing Hg-exposure scenarios for laboratory grown
 70 rainbow trout (*Oncorhynchus mykiss*) and wild fishes respectively. Symbols are the same as in Figure S2 and S4. Data
 71 may be found publicly accessible through the corresponding USGS data release.¹

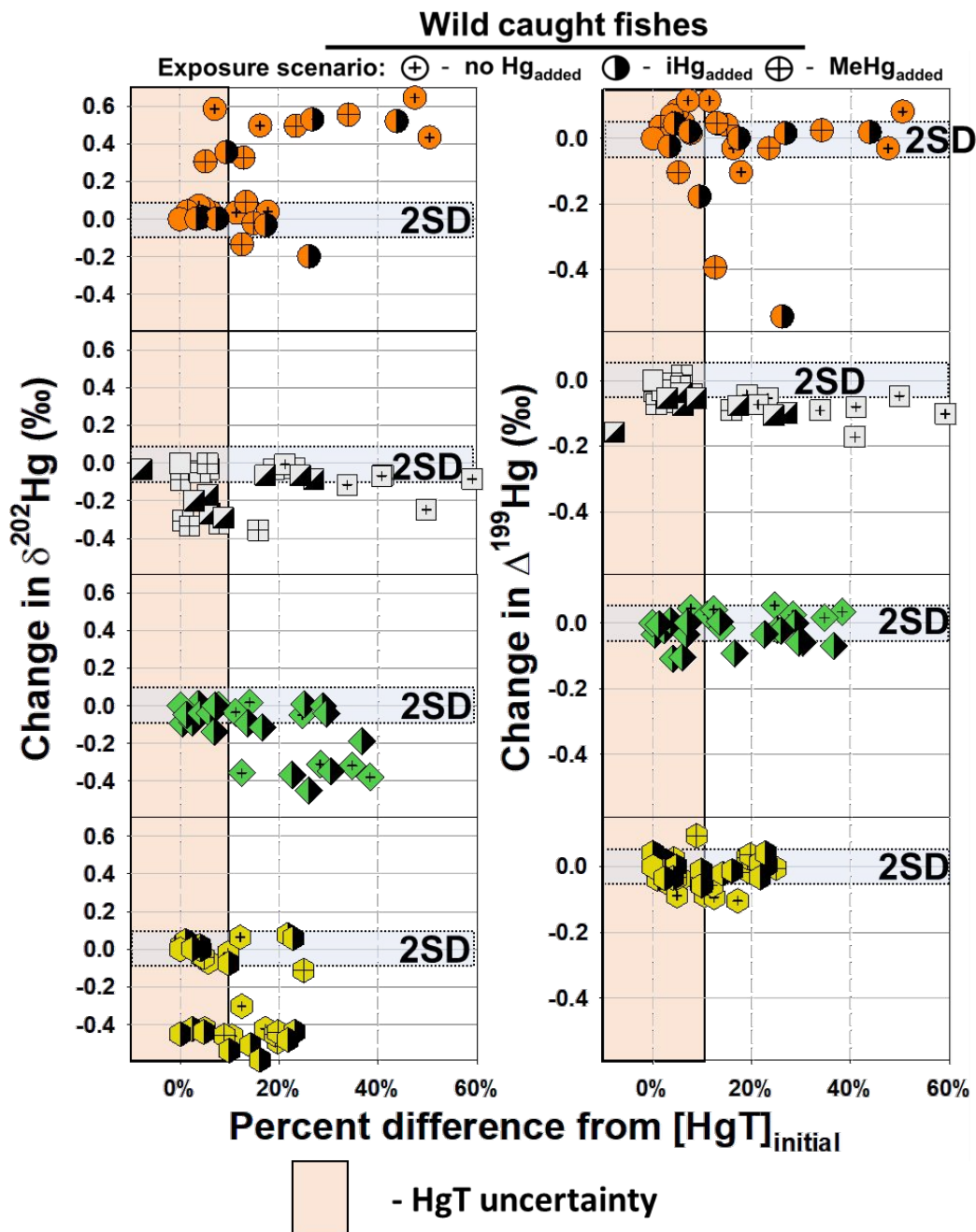
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74 Figure S7: In laboratory grown rainbow trout (*Oncorhynchus mykiss*), a comparison between the percent difference in
 75 HgT between the initial fish tissue and that at 1017 days versus the change in $\delta^{202}\text{Hg}$ (left) and $\Delta^{199}\text{Hg}$ (right) over the
 76 same time span. The orange and blue bars represent the HgT analytical uncertainty and the 2 standard deviations
 77 (2SD) of that given isotope respectively. Each horizontal panel represents a unique mercury exposure scenario.
 78 Symbols reflect differences in the Hg exposure scenario where upright with no cross is individual fish preserved in
 79 isolation, upright with a cross represents co-mingled with wild fishes but no Hg amendment, upside down with a cross
 80 represents co-mingled with wild fishes and exposed to additional laboratory methylmercury, and upside down with no
 81 cross represents co-mingled with wild fishes and exposed to additional laboratory inorganic mercury. Data may be
 82 found publicly accessible through the corresponding USGS data release.¹

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84

85 Figure S8: In wild fishes, a comparison between the percent difference in HgT between the initial fish tissue and that at
 86 1017 days versus the change in $\delta^{202}\text{Hg}$ (left) and $\Delta^{199}\text{Hg}$ (right) over the same time span. Symbols are the same as those
 87 in Figure S4. The orange and blue bars represent the HgT analytical uncertainty and the 2 standard deviations (2SD)
 88 of that given isotope respectively. Data may be found publicly accessible through the corresponding USGS data
 89 release.¹

90 *Table S1: The raw measurements for mercury, carbon, and nitrogen stable isotope values over varied timepoints and exposure scenarios that are defined by the superscripts. This*
 91 *table continues for the next 5 pages. Data may be found publicly accessible through the corresponding USGS data release.¹*

USGS ID	Fish name	Unique fish ID	Length cm	HgT ng g ⁻¹ Dry Weight	Day sampled	$\delta^{15}\text{N}$ ‰	$\delta^{13}\text{C}$ ‰	Percent C %	Percent N %	C:N ₂₀₀₀ Mass	$\delta^{200}\text{Hg}$ ‰	$\Delta^{199}\text{Hg}$ ‰	$\Delta^{201}\text{Hg}$ ‰	$\Delta^{203}\text{Hg}$ ‰	$\Delta^{204}\text{Hg}$ ‰
MSC243AM	Black Crappie ^{A,1}	8	27	865	1	12.0	-26.1	42.8	13.2	3.7	-0.03	2.47	0.05	1.84	-0.05
MSC782AN	Black Crappie ^{A,1}	8	27	1029	5	12.1	-27.1	43.4	12.4	4.0	-0.06	2.43	0.06	1.86	-0.02
MSC906AN	Black Crappie ^{A,1}	8	27	1066	7	11.8	-27.0	47.7	13.8	3.9	-0.06	2.42	0.05	1.78	0.00
MSC006AO	Black Crappie ^{A,1}	8	27	1049	10	11.5	-27.3	48.9	13.1	4.3	-0.04	2.40	0.05	1.82	-0.06
MSC036AO	Black Crappie ^{A,1}	8	27	127	18	11.8	-26.8	49.2	14.4	3.9	-0.08	2.34	0.03	1.77	-0.02
MSC666AP	Black Crappie ^{A,1}	8	27	1220	48	12.4	-26.5	46.3	13.9	3.8	-0.10	2.39	0.06	1.82	-0.10
MSC692AP	Black Crappie ^{A,1}	8	27	1296	94	12.6	-27.5	46.7	14.4	3.8	-0.28	2.42	0.06	1.85	-0.11
MSC178AP	Black Crappie ^{A,1}	8	27	1158	191	12.4	-27.7	47.7	14.2	3.9	-0.15	2.38	0.11	1.85	-0.05
MSC198AF	Black Crappie ^{A,1}	8	27	1376	507	12.5	-27.5	46.5	14.0	3.9	-0.12	2.37	0.02	1.77	-0.03
MSC969AY	Black Crappie ^{A,1}	8	27	1218	1017	12.5	-27.7	50.0	15.0	3.9	-0.10	2.30	0.04	1.76	-0.07
MSC238AM	Lake Trout ^{A,1}	13	46	503	1	9.2	-23.1	46.4	14.0	3.8	1.35	6.70	0.08	5.27	-0.11
MSC783AN	Lake Trout ^{A,1}	13	46	472	5	9.6	-24.7	49.5	13.0	4.4	1.38	6.75	0.08	5.27	-0.19
MSC908AN	Lake Trout ^{A,1}	13	46	528	7	9.7	-23.9	46.8	13.4	4.0	1.40	6.79	0.08	5.24	-0.16
MSC007AO	Lake Trout ^{A,1}	13	46	522	10	9.8	-23.6	49.7	14.6	3.9	1.42	6.77	0.09	5.26	-0.26
MSC037AO	Lake Trout ^{A,1}	13	46	560	18	9.8	-23.6	52.3	15.1	4.0	1.38	6.82	0.09	5.31	-0.14
MSC669AP	Lake Trout ^{A,1}	13	46	757	48	10.0	-23.0	51.3	15.7	3.7	1.78	6.78	0.09	5.25	-0.16
MSC693AP	Lake Trout ^{A,1}	13	46	585	94	10.5	-24.3	14.2	4.3	3.9	1.84	6.67	0.06	5.14	-0.13
MSC162AP	Lake Trout ^{A,1}	13	46	742	191	10.1	-25.3	47.7	13.9	4.0	1.99	6.67	0.09	5.21	-0.12
MSC200AF	Lake Trout ^{A,1}	13	46	539	507	10.5	-24.6	41.2	12.4	3.9	1.93	6.82	0.10	5.26	-0.15
MSC968AY	Lake Trout ^{A,1}	13	46	592	1017	10.5	-24.8	50.0	14.7	4.0	1.39	6.60	0.14	5.13	-0.07
MSC250AM	Northern Pike ^{A,1}	1	51	1775	1	9.2	-29.5	44.8	14.3	3.6	-0.58	0.42	0.05	0.33	0.00
MSC784AN	Northern Pike ^{A,1}	1	51	1911	5	9.9	-30.2	51.2	14.7	4.0	-0.57	0.46	0.07	0.31	-0.04
MSC907AN	Northern Pike ^{A,1}	1	51	2023	7	9.7	-30.0	47.4	14.0	3.9	-0.56	0.41	0.02	0.25	-0.09
MSC005AO	Northern Pike ^{A,1}	1	51	1973	10	9.7	-29.7	51.2	15.1	3.9	-0.61	0.45	0.04	0.32	-0.01
MSC038AO	Northern Pike ^{A,1}	1	51	18	18	9.8	-29.9	44.7	13.4	3.8	-0.60	0.41	0.05	0.34	0.01
MSC668AP	Northern Pike ^{A,1}	1	51	2455	48	10.2	-29.6	52.0	16.0	3.7	-0.96	0.45	0.08	0.35	-0.07
MSC694AP	Northern Pike ^{A,1}	1	51	2277	94	10.6	-30.6	45.2	13.9	3.8	-0.89	0.45	0.05	0.31	0.01
MSC177AP	Northern Pike ^{A,1}	1	51	1994	191	10.5	-30.9	46.3	14.0	3.9	-0.93	0.46	0.09	0.26	-0.10
MSC199AF	Northern Pike ^{A,1}	1	51	2391	507	10.7	-30.8	47.2	14.3	3.8	-0.89	0.44	0.08	0.33	-0.01
MSC976AY	Northern Pike ^{A,1}	1	51	2212	1017	10.6	-30.8	24.2	7.4	3.8	-0.63	0.47	0.03	0.32	-0.07
MSC231AM	Rainbow Trout ^{A,1}	20	19.4	86	1	9.3	-18.5	46.6	13.1	3.8	0.27	1.27	0.04	1.06	-0.04
MSC779AN	Rainbow Trout ^{A,1}	20	19.4	83	5	9.5	-20.1	49.9	13.1	4.1	0.36	1.32	0.09	1.03	-0.06
MSC902AN	Rainbow Trout ^{A,1}	20	19.4	123	7	9.5	-19.7	47.4	12.7	4.0	0.31	1.25	0.06	1.06	0.01
MSC002AO	Rainbow Trout ^{A,1}	20	19.4	81	10	9.3	-20.0	52.1	11.2	5.0	0.31	1.30	0.06	1.06	-0.12
MSC033AO	Rainbow Trout ^{A,1}	20	19.4	108	18	9.7	-19.9	52.5	12.8	4.4	0.31	1.30	0.06	1.05	-0.07
MSC664AP	Rainbow Trout ^{A,1}	20	19.4	110	48	9.7	-19.7	51.8	13.4	4.2					
NOT SAMPLED	Rainbow Trout ^{A,1}	20	19.4		94										
MSC180AP	Rainbow Trout ^{A,1}	20	19.4	113	191	9.7	-21.7	51.7	12.3	4.9	0.16	1.37	0.03	1.11	-0.08
MSC195AF	Rainbow Trout ^{A,1}	20	19.4	124	507	9.9	-20.8	48.6	14.1	4.0	0.07	1.36	0.03	1.12	-0.03
MSC978AY	Rainbow Trout ^{A,1}	20	19.4	133	1017	10.0	-21.0	50.9	14.6	4.1	0.15	1.42	0.04	1.16	-0.07
MSC227AM	Rainbow Trout ^{A,1}	24	17.5	88	1	9.6	-18.8	46.9	13.2	3.8	0.37	1.28	0.07	1.03	-0.10
MSC780AN	Rainbow Trout ^{A,1}	24	17.5	60	5	9.4	-20.5	48.3	10.8	4.8	0.30	1.29	0.08	1.03	-0.02
MSC903AN	Rainbow Trout ^{A,1}	24	17.5	98	7	9.7	-19.7	47.1	12.7	4.0	0.39	1.31	0.11	1.05	-0.13
MSC003AO	Rainbow Trout ^{A,1}	24	17.5	93	10	9.7	-20.2	53.1	11.5	5.0	0.27	1.26	0.06	1.04	-0.07
MSC034AO	Rainbow Trout ^{A,1}	24	17.5	104	18	9.2	-19.9	50.0	12.3	4.4	0.35	1.31	0.05	1.07	-0.06
MSC665AP	Rainbow Trout ^{A,1}	24	17.5	48	48	9.4	-20.0	54.2	13.2	4.4					
NOT SAMPLED	Rainbow Trout ^{A,1}	24	17.5		94										
MSC181AP	Rainbow Trout ^{A,1}	24	17.5	108	191	10.0	-21.0	51.0	13.4	4.4	0.22	1.42	0.10	1.16	-0.05
MSC196AF	Rainbow Trout ^{A,1}	24	17.5	103	507	10.0	-20.9	48.5	13.7	4.1	0.21	1.42	0.20	1.10	-0.10
MSC977AY	Rainbow Trout ^{A,1}	24	17.5	135	1017	9.9	-21.3	50.1	13.9	4.2	0.21	1.47	0.08	1.26	-0.05
MSC246AM	Yellow Perch ^{A,1}	5	20	750	1	10.0	-30.8	65.6	13.6	3.6	-0.56	0.24	0.05	0.11	-0.10
MSC794AN	Yellow Perch ^{A,1}	5	20	774	5	10.1	-31.0	56.1	10.7	3.9	-0.56	0.19	0.02	0.07	-0.09
MSC918AN	Yellow Perch ^{A,1}	5	20	707	7	10.1	-31.7	68.2	13.2	3.9	-0.63	0.20	0.01	0.10	-0.02
MSC018AO	Yellow Perch ^{A,1}	5	20	678	10	10.0	-31.8	69.2	13.4	3.8	-0.58	0.19	0.07	0.13	-0.09

USGS ID	Fish name	Unique fish ID	Length cm	HgT ng g ⁻¹ Dry Weight	Day sampled	$\delta^{15}\text{N}$ ‰	$\delta^{13}\text{C}$ ‰	Percent C %	Percent N %	C:N _{ratio} Mass	$\delta^{200}\text{Hg}$ ‰	$\Delta^{199}\text{Hg}$ ‰	$\Delta^{200}\text{Hg}$ ‰	$\Delta^{201}\text{Hg}$ ‰	$\Delta^{204}\text{Hg}$ ‰
MSC050AO	Yellow Perch ^{A,1}	5	20		18	10.2	-31.4	68.4	13.6	3.7	-0.57	0.21	0.04	0.13	-0.04
MSC681AP	Yellow Perch ^{A,1}	5	20	829	48	10.1	-31.3	70.0	13.8	3.8	-1.02	0.15	0.09	0.08	0.01
MSC699AP	Yellow Perch ^{A,1}	5	20	843	94	10.7	-32.4	45.8	13.8	3.9	-0.86	0.15	0.09	0.12	-0.08
MSC172AP	Yellow Perch ^{A,1}	5	20	879	191	10.4	-32.0	47.5	14.4	3.9	-0.98	0.13	0.03	0.12	0.04
MSC212AF	Yellow Perch ^{A,1}	5	20	787	507	10.5	-32.3	48.0	14.2	3.9	-0.98	0.15	0.01	0.10	-0.07
MSC985AY	Yellow Perch ^{A,1}	5	20	841	1017	10.5	-32.4	50.7	14.6	4.1	-0.50	0.18	0.02	0.08	-0.04
MSC249AM	Black Crappie ^{B,2}	tag missing	27	2373	1	12.3	-31.8	42.7	13.1	3.7	-0.42	0.74	0.06	0.53	-0.09
MSC789AN	Black Crappie ^{B,2}	tag missing	27	2234	5	13.1	-32.5	47.1	13.5	4.0	-0.45	0.75	0.05	0.52	-0.04
MSC913AN	Black Crappie ^{B,2}	tag missing	27	2369	7	12.8	-32.3	49.6	14.4	3.9	-0.51	0.70	0.04	0.47	-0.02
MSC013AO	Black Crappie ^{B,2}	tag missing	27	2281	10	12.8	-32.2	51.1	15.0	3.9	-0.46	0.73	0.03	0.48	-0.04
MSC043AO	Black Crappie ^{B,2}	tag missing	27	2470	18	12.7	-31.9	48.8	14.5	3.8	-0.47	0.67	0.01	0.46	-0.08
MSC674AP	Black Crappie ^{B,2}	tag missing	27	2562	48	12.7	-34.0	48.4	11.6	4.8	-0.74	0.70	0.07	0.52	-0.04
MSC696AP	Black Crappie ^{B,2}	tag missing	27	2750	94	13.3	-33.0	45.9	14.4	3.7	-0.78	0.65	0.04	0.54	0.02
MSC163AP	Black Crappie ^{B,2}	tag missing	27	2357	191	13.0	-32.9	45.9	14.2	3.8	-0.73	0.66	0.11	0.51	0.00
MSC205AF	Black Crappie ^{B,2}	tag missing	27	2420	507	13.1	-33.0	47.2	14.1	3.9	-0.75	0.71	0.10	0.48	-0.09
MSC994AY	Black Crappie ^{B,2}	tag missing	27	2506	1017	13.3	-33.0	50.1	15.0	3.9	-0.42	0.72	0.04	0.47	-0.07
MSC239AM	Lake Trout ^{B,2}	12	44.5	589	1	9.1	-23.8	46.8	13.7	3.9	1.46	6.72	0.12	5.25	-0.09
MSC790AN	Lake Trout ^{B,2}	12	44.5	580	5	9.5	-24.7	49.8	14.1	4.0	1.50	6.75	0.10	5.24	-0.14
MSC905AN	Lake Trout ^{B,2}	12	44.5	634	7	9.7	-24.4	49.0	14.2	3.9	1.47	6.74	0.11	5.25	-0.15
MSC014AO	Lake Trout ^{B,2}	12	44.5	668	10	9.8	-24.4	50.4	14.4	4.0	1.55	6.76	0.11	5.24	-0.16
MSC045AO	Lake Trout ^{B,2}	12	44.5	677	18	9.8	-24.3	45.0	12.9	4.0	1.44	6.76	0.13	5.27	-0.10
MSC675AP	Lake Trout ^{B,2}	12	44.5	790	48	9.9	-23.9	49.5	14.8	3.8	2.02	6.74	0.15	5.25	-0.19
MSC453AQ	Lake Trout ^{B,2}	12	44.5	619	94	10.5	-24.5	47.4	14.0	3.9	1.77	6.62	0.07	5.12	-0.20
MSC176AP	Lake Trout ^{B,2}	12	44.5	665	191	10.4	-24.8	47.1	13.8	4.0	1.79	6.77	0.13	5.29	-0.25
MSC207AF	Lake Trout ^{B,2}	12	44.5	727	507	10.1	-25.2	49.0	14.7	3.9	1.96	6.69	0.04	5.22	-0.16
MSC996AY	Lake Trout ^{B,2}	12	44.5	663	1017	10.2	-25.3	49.9	14.8	3.9	1.33	6.33	0.09	4.99	-0.05
MSC237AM	Rainbow Trout ^{A,2}	14	18.5	82	1	8.3	-18.6	44.0	12.6	3.8	0.35	1.33	0.08	1.07	-0.05
MSC775AN	Rainbow Trout ^{A,2}	14	18.5	93	5	8.7	-20.0	45.8	12.1	4.1	0.35	1.33	0.08	1.07	-0.05
MSC909AN	Rainbow Trout ^{A,2}	14	18.5	105	7	9.0	-20.0	47.7	12.3	4.2	0.36	1.31	0.04	1.05	-0.04
MSC008AO	Rainbow Trout ^{A,2}	14	18.5	60	10	9.1	-19.7	48.4	13.3	3.9					
MSC039AO	Rainbow Trout ^{A,2}	14	18.5	105	18	9.3	-20.0	50.9	13.2	4.2	0.39	1.32	0.04	1.08	-0.12
MSC670AP	Rainbow Trout ^{A,2}	14	18.5	78	48	9.7	-19.6	53.8	13.9	4.2					
NOT SAMPLED	Rainbow Trout ^{A,2}	14	18.5		94										
MSC166AP	Rainbow Trout ^{A,2}	14	18.5	94	191	9.3	-21.2	50.4	13.0	4.5	0.17	1.51	0.09	1.20	-0.06
MSC201AF	Rainbow Trout ^{A,2}	14	18.5	120	507	9.4	-20.8	47.7	14.0	4.0	0.29	1.51	0.09	1.22	-0.04
MSC991AY	Rainbow Trout ^{A,2}	14	18.5	126	1017						0.25	1.39	0.04	1.15	-0.12
MSC236AM	Rainbow Trout ^{A,2}	15	17.5	89	1	9.0	-18.6	45.7	12.8	3.8	0.34	1.30	0.08	1.04	-0.14
MSC776AN	Rainbow Trout ^{A,2}	15	17.5	89	5	9.6	-19.9	50.2	13.1	4.1	0.29	1.28	0.07	1.10	-0.07
MSC910AN	Rainbow Trout ^{A,2}	15	17.5	90	7	9.6	-19.5	50.9	13.8	4.0	0.40	1.32	0.06	1.07	-0.06
MSC009AO	Rainbow Trout ^{A,2}	15	17.5	91	10	9.6	-20.2	55.0	10.5	5.6	0.26	1.27	0.03	1.08	-0.07
MSC040AO	Rainbow Trout ^{A,2}	15	17.5	112	18	9.6	-19.7	51.7	13.0	4.3	0.27	1.29	0.06	1.07	-0.05
MSC671AP	Rainbow Trout ^{A,2}	15	17.5		48	8.7	-19.4	51.2	14.4	3.8					
NOT SAMPLED	Rainbow Trout ^{A,2}	15	17.5		94										
MSC167AP	Rainbow Trout ^{A,2}	15	17.5	117	191	9.9	-20.7	48.6	13.7	4.1	0.15	1.45	0.08	1.17	-0.06
MSC202AF	Rainbow Trout ^{A,2}	15	17.5	141	507	9.8	-21.3	48.5	13.1	4.3	0.20	1.46	0.07	1.27	-0.06
MSC992AY	Rainbow Trout ^{A,2}	15	17.5	140	1017	9.9	-21.2	51.2	14.4	4.1	0.14	1.45	0.02	1.15	-0.01
MSC228AM	Rainbow Trout ^{B,2}	23	17	84	1	9.0	-18.6	46.6	13.4	3.7	0.37	1.24	0.08	1.07	-0.09
MSC787AN	Rainbow Trout ^{B,2}	23	17	111	5	9.5	-20.3	50.4	12.8	4.2					
MSC911AN	Rainbow Trout ^{B,2}	23	17	37	7	9.7	-19.8	48.8	13.2	4.0					
MSC010AO	Rainbow Trout ^{B,2}	23	17	125	10	9.8	-20.0	51.9	12.2	4.6	0.27	1.28	0.05	1.12	-0.04
MSC041AO	Rainbow Trout ^{B,2}	23	17	106	18	9.7	-20.1	52.1	12.5	4.5	0.29	1.28	0.06	1.12	-0.04
MSC672AP	Rainbow Trout ^{B,2}	23	17	97	48	9.8	-20.0	55.9	12.9	4.7					
NOT SAMPLED	Rainbow Trout ^{B,2}	23	17		94										
MSC165AP	Rainbow Trout ^{B,2}	23	17	98	191	10.0	-20.7	48.5	14.1	4.0					
MSC203AF	Rainbow Trout ^{B,2}	23	17	114	507	9.9	-20.9	47.8	13.3	4.2	0.14	1.47	0.08	1.20	-0.16

USGS ID	Fish name	Unique fish ID	Length cm	HgT ng g ⁻¹ Dry Weight	Day sampled	δ ¹⁵ N ‰	δ ¹³ C ‰	Percent C %	Percent N %	C:N _{ratio} Mass	δ ²⁰² Hg ‰	Δ ¹⁹⁹ Hg ‰	Δ ²⁰⁰ Hg ‰	Δ ²⁰¹ Hg ‰	Δ ²⁰⁴ Hg ‰
MSC993AY	Rainbow Trout ^{B,2}	23	17	127	1017	10.1	-21.3	51.4	14.0	4.3	0.20	1.43	0.05	1.18	-0.08
MSC245AM	Yellow Perch ^{B,2}	6	18	846	1	8.8	-32.0	66.7	13.7	3.6	-0.59	0.16	0.03	0.14	-0.06
MSC788AN	Yellow Perch ^{B,2}	6	18	882	5	9.6	-32.6	65.3	12.1	4.0	-0.63	0.18	0.01	0.09	-0.02
MSC912AN	Yellow Perch ^{B,2}	6	18	844	7	9.0	-32.7	70.2	13.5	3.9	-0.57	0.18	0.03	0.08	-0.11
MSC011AO	Yellow Perch ^{B,2}	6	18	886	10	9.2	-32.5	70.1	13.2	4.0	-0.63	0.13	0.01	0.09	0.00
MSC042AO	Yellow Perch ^{B,2}	6	18		18	9.1	-32.5	67.8	13.7	3.7	-0.62	0.21	0.05	0.06	-0.07
MSC673AP	Yellow Perch ^{B,2}	6	18	1012	48	9.2	-32.3	70.7	14.3	3.7	-1.08	0.14	0.03	0.05	-0.08
MSC695AP	Yellow Perch ^{B,2}	6	18	1008	94	9.5	-33.4	47.4	14.5	3.8	-1.04	0.19	0.05	0.05	-0.02
MSC164AP	Yellow Perch ^{B,2}	6	18	921	191	9.7	-33.4	47.5	14.4	3.8	-1.05	0.25	0.06	0.13	-0.09
MSC204AF	Yellow Perch ^{B,2}	6	18	1013	507	9.2	-33.3	47.0	13.5	4.1	-1.03	0.19	0.03	0.10	0.00
MSC995AY	Yellow Perch ^{B,2}	6	18	1057	1017	9.5	-33.4	49.7	14.1	4.1	-0.70	0.15	0.05	0.07	-0.05
MSC244AM	Black Crappie ^{C,3}	7	22	1100	1	11.7	-29.9	46.1	14.1	3.7	-0.27	1.41	0.07	1.07	-0.07
MSC796AN	Black Crappie ^{C,3}	7	22	802	5	12.4	-30.3	48.5	14.1	3.9	-0.36	1.31	0.01	0.99	-0.01
MSC920AN	Black Crappie ^{C,3}	7	22	832	7	12.3	-30.0	47.8	14.0	3.9	-0.34	1.31	0.05	0.98	-0.09
MSC020AO	Black Crappie ^{C,3}	7	22	910	10	12.4	-30.0	49.6	14.5	3.9	-0.34	1.34	0.07	0.99	-0.04
MSC051AP	Black Crappie ^{C,3}	7	22		18	12.1	-29.4	49.4	14.9	3.8	-0.38	1.29	-0.02	0.98	-0.03
MSC682AP	Black Crappie ^{C,3}	7	22	1034	48	12.6	-29.8	51.8	15.7	3.8	-0.54	1.34	0.04	1.01	-0.01
MSC452AQ	Black Crappie ^{C,3}	7	22	1164	94	12.9	-30.8	45.7	13.7	3.9	-0.44	1.38	0.06	1.03	-0.01
MSC171AP	Black Crappie ^{C,3}	7	22	1004	191	12.7	-30.6	34.1	10.2	3.9	-0.56	1.36	0.03	1.00	-0.08
MSC213AF	Black Crappie ^{C,3}	7	22	1068	507	12.7	-30.8	49.3	14.7	3.9	-0.47	1.36	0.07	1.00	-0.02
MSC986AY	Black Crappie ^{C,3}	7	22	1015	1017	12.9	-30.8	50.3	15.3	3.8	-0.31	1.26	0.00	0.95	-0.09
MSC240AM	Lake Trout ^{C,3}	11	43	554	1	9.7	-22.2	46.0	13.8	3.7	1.42	6.72	0.10	5.22	-0.15
MSC798AN	Lake Trout ^{C,3}	11	43	529	5	10.4	-24.3	48.6	13.8	4.0	1.46	6.76	0.10	5.23	-0.16
MSC935AN	Lake Trout ^{C,3}	11	43	595	7	10.4	-23.9	49.0	14.1	4.0	1.45	6.74	0.12	5.27	-0.13
MSC022AO	Lake Trout ^{C,3}	11	43	572	10	10.4	-23.9	50.1	14.5	3.9	1.45	6.69	0.09	5.18	-0.17
MSC053AO	Lake Trout ^{C,3}	11	43	650	18	10.3	-23.3	50.2	14.9	3.9	1.42	6.72	0.10	5.22	-0.12
MSC683AP	Lake Trout ^{C,3}	11	43	797	48	10.7	-23.1	37.1	11.1	3.8	1.97	6.74	0.08	5.25	-0.09
MSC697AP	Lake Trout ^{C,3}	11	43	916	94	10.5	-24.7	47.0	14.6	3.8	2.02	6.73	0.13	5.26	-0.16
MSC169AP	Lake Trout ^{C,3}	11	43	702	191	10.8	-25.0	36.1	10.3	4.1	1.98	6.73	0.12	5.22	-0.18
MSC221AF	Lake Trout ^{C,3}	11	43	502	507	10.9	-24.7	44.8	13.3	3.9	1.80	6.54	0.12	5.04	-0.15
MSC967AY	Lake Trout ^{C,3}	11	43	699	1017	10.8	-24.9	50.6	14.8	4.0	1.25	6.17	0.11	4.80	-0.11
MSC242AM	Northern Pike ^{C,3}	9	40	1817	1	11.8	-30.1	45.2	14.0	3.7	-0.58	0.57	0.04	0.40	-0.09
MSC791AN	Northern Pike ^{C,3}	9	40	1809	5	12.1	-30.8	48.1	13.6	4.0	-0.67	0.54	0.07	0.41	0.00
MSC914AN	Northern Pike ^{C,3}	9	40	1861	7	12.1	-30.4	34.2	9.9	3.9	-0.67	0.55	0.03	0.43	0.05
MSC012AO	Northern Pike ^{C,3}	9	40	1883	10	12.3	-30.6	52.4	15.5	3.9	-0.57	0.58	0.04	0.38	-0.04
MSC044AO	Northern Pike ^{C,3}	9	40	2272	18	12.4	-30.7	51.4	15.2	3.9	-0.57	0.55	0.02	0.37	-0.03
MSC677AP	Northern Pike ^{C,3}	9	40	2369	48	12.6	-30.2	47.5	14.4	3.8	-0.93	0.51	0.05	0.39	-0.04
MSC698AP	Northern Pike ^{C,3}	9	40	2340	94	13.2	-31.2	46.3	14.0	3.9					
MSC161AP	Northern Pike ^{C,3}	9	40	2288	191	12.9	-31.4	47.5	14.3	3.9	-1.03	0.55	0.08	0.37	-0.05
MSC206AF	Northern Pike ^{C,3}	9	40	2228	507	13.0	-31.4	47.4	14.2	3.9	-0.95	0.54	0.06	0.32	-0.08
MSC997AY	Northern Pike ^{C,3}	9	40	2064	1017	10.2	-32.0	45.9	14.1	3.8	-0.67	0.58	0.08	0.37	-0.06
MSC241AM	Northern Pike ^{C,3}	10	55	1529	1	12.0	-26.8	50.3	15.8	3.6	-0.05	2.18	0.04	1.68	-0.05
MSC797AN	Northern Pike ^{C,3}	10	55	1508	5	12.4	-27.8	49.5	14.2	4.0	-0.09	2.17	0.06	1.66	-0.09
MSC921AN	Northern Pike ^{C,3}	10	55	1466	7	12.4	-27.8	46.9	13.3	4.0	-0.08	2.07	0.04	1.61	-0.09
MSC021AO	Northern Pike ^{C,3}	10	55	1437	10	12.3	-27.4	48.8	14.4	3.9	-0.08	2.07	0.05	1.59	-0.14
MSC052AO	Northern Pike ^{C,3}	10	55		18	12.3	-27.2	48.1	14.4	3.8	-0.13	2.08	-0.01	1.65	0.04
MSC684AP	Northern Pike ^{C,3}	10	55	1633	48	12.6	-26.9	50.1	14.9	3.8	-0.18	2.14	0.04	1.63	-0.10
MSC454AQ	Northern Pike ^{C,3}	10	55	1981	94	13.2	-28.2	45.4	14.1	3.7	-0.09	2.12	0.01	1.66	0.04
MSC168AP	Northern Pike ^{C,3}	10	55	2090	191	13.1	-28.3	48.4	14.6	3.9	-0.23	2.11	0.07	1.61	-0.17
MSC214AF	Northern Pike ^{C,3}	10	55	1636	507	13.1	-28.4	47.0	14.0	3.9					
MSC987AY	Northern Pike ^{C,3}	10	55	1782	1017	13.0	-28.5	50.5	15.0	3.9	-0.16	2.09	0.03	1.61	0.06
MSC235AM	Rainbow Trout ^{A,3}	16	17	85	1	8.9	-18.5	44.9	12.6	3.8	0.35	1.22	0.05	1.04	-0.06
MSC777AN	Rainbow Trout ^{A,3}	16	17	71	5	8.9	-20.2	44.6	11.5	4.2	0.29	1.22	0.04	1.05	-0.01
MSC915AN	Rainbow Trout ^{A,3}	16	17	151	7	9.9	-20.8	46.8	12.9	4.2	0.29	1.19	0.08	1.05	0.07
MSC015AO	Rainbow Trout ^{A,3}	16	17	64	10	9.3	-19.8	50.8	12.2	4.5	0.31	1.27	0.02	1.04	-0.07

USGS ID	Fish name	Unique fish ID	Length cm	HgT ng g ⁻¹ Dry Weight	Day sampled	$\delta^{15}\text{N}$ ‰	$\delta^{13}\text{C}$ ‰	Percent C %	Percent N %	C:N _{total} Mass	$\delta^{200}\text{Hg}$ ‰	$\Delta^{199}\text{Hg}$ ‰	$\Delta^{200}\text{Hg}$ ‰	$\Delta^{201}\text{Hg}$ ‰	$\Delta^{202}\text{Hg}$ ‰
MSC046AO	Rainbow Trout ^{A,3}	16	17	108	18	9.2	-20.1	53.2	11.5	5.0	0.26	1.23	0.02	1.02	-0.11
MSC679AP	Rainbow Trout ^{A,3}	16	17	103	48	9.4	-19.8	53.5	13.2	4.4					
NOT SAMPLED	Rainbow Trout ^{A,3}	16	17		94										
MSC174AP	Rainbow Trout ^{A,3}	16	17	123	191	10.0	-21.5	53.1	11.1	5.6	-0.14	1.23	0.07	0.90	-0.12
MSC208AF	Rainbow Trout ^{A,3}	16	17	130	507	10.1	-21.7	49.3	12.5	4.6	-0.21	1.16	0.12	0.98	-0.07
MSC981AY	Rainbow Trout ^{A,3}	16	17	176	1017	10.0	-21.2	51.5	14.1	4.3	-0.13	1.10	0.06	0.89	-0.02
MSC234AM	Rainbow Trout ^{A,3}	17	18.5	78	1	8.7	-18.6	46.7	13.2	3.8	0.37	1.32	0.06	1.09	-0.07
MSC778AN	Rainbow Trout ^{A,3}	17	18.5	70	5	9.0	-19.9	49.5	13.1	4.1					
MSC916AN	Rainbow Trout ^{A,3}	17	18.5	101	7	9.1	-19.7	49.7	13.1	4.1	0.30	1.29	0.06	1.05	-0.03
MSC016AO	Rainbow Trout ^{A,3}	17	18.5	140	10	8.6	-19.9	53.5	11.9	4.9					
MSC047AO	Rainbow Trout ^{A,3}	17	18.5	93	18	9.2	-19.6	52.4	13.6	4.1	0.27	1.27	0.03	1.05	-0.09
MSC678AP	Rainbow Trout ^{A,3}	17	18.5	116	48	9.0	-19.8	51.2	13.7	4.0					
NOT SAMPLED	Rainbow Trout ^{A,3}	17	18.5		94										
MSC175AP	Rainbow Trout ^{A,3}	17	18.5	133	191	9.7	-20.9	49.6	13.5	4.3	-0.13	1.20	0.07	0.98	-0.04
MSC209AF	Rainbow Trout ^{A,3}	17	18.5	128	507	9.7	-21.0	44.8	12.6	4.1	0.07	1.26	0.09	0.99	-0.05
MSC982AY	Rainbow Trout ^{A,3}	17	18.5	131	1017	9.7	-21.4	51.9	14.4	4.2	0.08	1.14	0.08	0.97	-0.04
MSC229AM	Rainbow Trout ^{C,3}	22	19	76	1	9.3	-18.5	46.5	13.5	3.7	0.29	1.26	0.04	1.04	-0.07
MSC793AN	Rainbow Trout ^{C,3}	22	19	78	5	9.6	-20.2	48.6	11.6	4.5	0.28	1.26	0.06	1.07	-0.08
MSC917AN	Rainbow Trout ^{C,3}	22	19	39	7	9.8	-19.9	51.8	12.5	4.5					
MSC017AO	Rainbow Trout ^{C,3}	22	19	79	10	9.7	-19.4	51.0	14.1	3.9	0.31	1.29	0.05	1.03	-0.08
MSC048AO	Rainbow Trout ^{C,3}	22	19	107	18	9.6	-19.4	48.3	12.8	4.1	0.26	1.27	0.03	1.02	-0.12
MSC676AP	Rainbow Trout ^{C,3}	22	19		48	9.2	-20.1	53.4	13.1	4.4					
NOT SAMPLED	Rainbow Trout ^{C,3}	22	19		94										
MSC173AP	Rainbow Trout ^{C,3}	22	19	155	191	10.2	-21.1	49.4	13.8	4.2	-0.16	1.15	0.16	0.94	-0.11
MSC210AF	Rainbow Trout ^{C,3}	22	19	143	507	9.8	-21.9	48.6	13.1	4.3	-0.22	1.16	0.10	0.92	-0.12
MSC983AY	Rainbow Trout ^{C,3}	22	19	201	1017	10.0	-21.2	51.5	14.5	4.1	-0.08	1.11	0.04	0.89	-0.12
MSC248AM	Yellow Perch ^{C,3}	3	26	3861	1	9.3	-30.7	45.7	14.0	3.7	-0.95	0.16	0.04	0.06	-0.06
MSC795AN	Yellow Perch ^{C,3}	3	26	3824	5	9.6	-31.5	48.2	13.5	4.1	-0.91	0.13	0.03	0.08	-0.02
MSC919AN	Yellow Perch ^{C,3}	3	26	3708	7	9.5	-31.0	55.1	15.8	4.0	-0.93	0.16	0.01	0.12	0.05
MSC019AO	Yellow Perch ^{C,3}	3	26	3818	10	9.4	-31.1	49.6	14.0	4.0	-0.91	0.19	0.03	0.09	0.02
MSC049AO	Yellow Perch ^{C,3}	3	26		18	9.8	-31.3	47.2	13.4	4.0	-0.89	0.17	0.00	0.11	-0.01
MSC680AP	Yellow Perch ^{C,3}	3	26	3765	48	9.5	-30.2	41.4	12.1	3.9	-1.37	0.18	0.12	0.07	-0.10
MSC451AQ	Yellow Perch ^{C,3}	3	26	4755	94	10.2	-31.9	48.7	14.8	3.8	-1.39	0.17	0.00	0.04	-0.04
MSC170AP	Yellow Perch ^{C,3}	3	26	3859	191	10.3	-32.1	48.9	14.6	3.9	-1.40	0.21	0.05	0.10	-0.03
MSC211AF	Yellow Perch ^{C,3}	3	26	3677	507	10.0	-31.6	29.7	8.9	3.9	-1.39	0.17	0.02	0.05	0.01
MSC984AY	Yellow Perch ^{C,3}	3	26	4700	1017	10.1	-32.0	49.8	14.7	4.0	-0.87	0.18	0.04	0.10	-0.02
MSC247AM	Yellow Perch ^{C,3}	4	19.5	1387	1	10.0	-31.7	44.9	13.7	3.7	-0.78	0.29	0.04	0.17	-0.07
MSC781AN	Yellow Perch ^{C,3}	4	19.5	1250	5	10.3	-32.2	48.2	13.4	4.1	-0.86	0.28	0.05	0.20	-0.04
MSC904AN	Yellow Perch ^{C,3}	4	19.5	1329	7	10.3	-32.3	51.7	14.7	4.0	-0.79	0.26	0.04	0.16	-0.07
MSC004AO	Yellow Perch ^{C,3}	4	19.5	1353	10	10.5	-32.2	66.3	12.9	3.8	-0.78	0.26	0.03	0.22	-0.05
MSC035AO	Yellow Perch ^{C,3}	4	19.5		18	10.5	-32.1	64.9	13.2	3.7	-0.81	0.27	0.04	0.18	0.01
MSC667AP	Yellow Perch ^{C,3}	4	19.5	1688	48	10.8	-32.2	67.0	13.0	3.9	-1.26	0.26	0.02	0.16	-0.03
MSC691AP	Yellow Perch ^{C,3}	4	19.5	1583	94	10.9	-33.1	47.7	14.6	3.8	-1.29	0.27	0.00	0.15	-0.10
MSC179AP	Yellow Perch ^{C,3}	4	19.5	1610	191	11.0	-33.1	48.3	14.6	3.9	-1.37	0.28	0.04	0.16	-0.11
MSC197AF	Yellow Perch ^{C,3}	4	19.5	1524	507	11.0	-33.1	48.5	14.2	4.0	-1.32	0.23	0.08	0.16	-0.02
MSC970AY	Yellow Perch ^{C,3}	4	19.5	1703	1017	11.0	-33.0	51.1	15.1	4.0	-0.73	0.33	0.01	0.21	-0.06
MSC226AM	Rainbow Trout ^{D,4}	25	18	83	1	9.0	-18.6	43.8	12.6	3.7	0.31	1.23	0.05	1.02	-0.06
MSC774AN	Rainbow Trout ^{D,4}	25	18	84	5	9.6	-19.9	46.1	12.3	4.0	0.31	1.27	0.05	1.04	-0.05
MSC799AN	Rainbow Trout ^{D,4}	25	18	75	7	9.4	-19.7	47.8	12.5	4.1	0.33	1.28	0.08	1.03	-0.05
MSC948AN	Rainbow Trout ^{D,4}	25	18	93	10	9.5	-19.3	45.5	13.6	3.8	0.32	1.31	0.09	1.09	-0.04
MSC029AO	Rainbow Trout ^{D,4}	25	18	96	18	9.1	-19.5	47.4	12.0	4.5	0.33	1.27	0.03	1.02	-0.11
MSC660AP	Rainbow Trout ^{D,4}	25	18		48	9.6	-19.6	48.1	13.7	4.0					
NOT SAMPLED	Rainbow Trout ^{D,4}	25	18		94										
MSC185AP	Rainbow Trout ^{D,4}	25	18	96	191	9.8	-20.2	46.8	13.9	3.9					
MSC194AF	Rainbow Trout ^{D,4}	25	18	100	507	10.1	-20.0	46.1	13.9	3.9					

USGS ID	Fish name	Unique fish ID	Length cm	HgT ng g ⁻³ Dry Weight	Day sampled	δ ¹⁵ N ‰	δ ¹³ C ‰	Percent C %	Percent N %	C:N _{total} Mass	δ ²⁰² Hg ‰	Δ ²⁰² Hg ‰	Δ ²⁰⁰ Hg ‰	Δ ²⁰¹ Hg ‰	Δ ²⁰⁴ Hg ‰
MSC972AY	Rainbow Trout ^{0.4}	25	18	117	1017	9.9	-20.2	46.2	13.7	3.9	0.30	1.29	0.07	1.04	-0.02
MSC233AM	Rainbow Trout ^{0.5}	18	19.2	84	1	8.6	-18.7	47.2	13.6	3.8	0.33	1.31	0.08	1.05	-0.08
MSC785AN	Rainbow Trout ^{0.5}	18	19.2	76	5	8.7	-20.3	49.4	11.2	4.7	0.37	1.27	0.03	1.02	-0.03
MSC800AN	Rainbow Trout ^{0.5}	18	19.2	115	7	8.9	-19.7	50.3	13.6	4.0	0.32	1.32	0.08	1.07	0.00
MSC949AN	Rainbow Trout ^{0.5}	18	19.2	86	10	9.0	-19.0			3.9	0.33	1.35	0.09	1.17	0.01
MSC030AO	Rainbow Trout ^{0.5}	18	19.2	101	18	9.4	-19.2	48.1	13.5	3.8	0.26	1.31	0.05	1.10	-0.02
MSC661AP	Rainbow Trout ^{0.5}	18	19.2	105	48	9.0	-19.8	53.9	13.0	4.5					
NOT SAMPLED	Rainbow Trout ^{0.5}	18	19.2		94										
MSC184AP	Rainbow Trout ^{0.5}	18	19.2	87	191	9.4	-20.2	46.1	13.3	4.1					
MSC191AF	Rainbow Trout ^{0.5}	18	19.2	93	507	9.6	-20.1	48.1	14.1	4.0	0.26	1.32	0.06	1.05	-0.11
MSC989AY	Rainbow Trout ^{0.5}	18	19.2	105	1017	9.7	-20.2	48.8	14.0	4.1	0.32	1.28	0.06	1.05	-0.06
MSC232AM	Rainbow Trout ^{0.6}	19	17.4	82	1	9.0	-18.7	46.4	13.0	3.9	0.33	1.26	0.06	1.08	-0.04
MSC786AN	Rainbow Trout ^{0.6}	19	17.4	102	5	9.2	-20.4	54.3	11.7	5.0	0.37	1.29	0.05	1.03	-0.15
MSC900AN	Rainbow Trout ^{0.6}	19	17.4	68	7	9.2	-19.8	52.7	13.6	4.2	0.33	1.26	0.02	1.06	-0.02
MSC950AN	Rainbow Trout ^{0.6}	19	17.4	121	10	9.5	-19.2	50.6	14.0	3.9	0.31	1.27	0.06	1.04	-0.01
MSC031AO	Rainbow Trout ^{0.6}	19	17.4	112	18	9.4	-19.3	51.8	12.9	4.3	0.34	1.27	0.04	1.02	-0.12
MSC662AP	Rainbow Trout ^{0.6}	19	17.4	105	48	9.4	-19.7	56.5	12.7	4.8					
NOT SAMPLED	Rainbow Trout ^{0.6}	19	17.4		94										
MSC183AP	Rainbow Trout ^{0.6}	19	17.4	97	191	9.6	-20.3	48.5	13.4	4.2	0.30	1.33	0.10	1.13	-0.07
MSC192AF	Rainbow Trout ^{0.6}	19	17.4	90	507	9.7	-20.3	47.7	13.6	4.1	0.19	1.31	0.04	1.10	-0.01
MSC990AY	Rainbow Trout ^{0.6}	19	17.4	111	1017	9.8	-20.6	52.2	13.2	4.6	0.31	1.30	0.04	1.06	-0.03
MSC230AM	Rainbow Trout ^{0.7}	21	20.2	86	1	9.1	-18.9	47.3	13.2	3.9	0.32	1.29	0.02	1.05	-0.04
MSC792AN	Rainbow Trout ^{0.7}	21	20.2	88	5	9.0	-20.2	50.1	13.2	4.1	0.32	1.30	0.03	1.10	-0.04
MSC901AN	Rainbow Trout ^{0.7}	21	20.2	91	7	9.3	-19.6	50.1	13.6	4.0	0.31	1.32	0.05	1.10	-0.07
MSC001AO	Rainbow Trout ^{0.7}	21	20.2	105	10	9.5	-19.4	49.4	14.2	3.8	0.36	1.31	0.06	1.07	-0.11
MSC032AO	Rainbow Trout ^{0.7}	21	20.2	114	18	9.5	-19.2	50.8	14.1	3.9	0.29	1.32	0.03	1.07	-0.12
MSC663AP	Rainbow Trout ^{0.7}	21	20.2	113	48	9.5	-19.3	53.4	13.8	4.2					
NOT SAMPLED	Rainbow Trout ^{0.7}	21	20.2		94										
MSC182AP	Rainbow Trout ^{0.7}	21	20.2	110	191	9.6	-20.3	48.7	13.6	4.2	0.33	1.27	0.03	1.07	0.00
MSC193AF	Rainbow Trout ^{0.7}	21	20.2	116	507	9.6	-20.1	47.7	14.0	4.0	0.27	1.25	0.05	1.07	-0.03
MSC971AY	Rainbow Trout ^{0.7}	21	20.2	119	1017	9.5	-20.3	49.5	14.0	4.1	0.36	1.28	0.02	1.03	-0.14

Superscript	definition	Superscript	definition
A	no Hg bulk - formalin	1	no Hg - bulk
B	MeHg bulk - formalin	2	MeHg - bulk
C	inorganic Hg bulk - formalin	3	iHg - bulk
D	Individual fish - formalin	4	no Hg - individual fish
		5	Removed from MeHg - bulk formalin
		6	Removed from iHg - bulk formalin
		7	Removed from bulk - formalin

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Table S2: The raw measurements for speciated mercury concentrations as well as carbon, and nitrogen stable isotope values over varied timepoints and ecosystems from Africa, subsampled from the Royal Museum of Africa. This table continues for the next 2 pages. Data may be found publicly accessible through the corresponding USGS data release.¹

USGS ID	Fish name	Site	HgT ng g ⁻¹ dry weight	MeHg ng g ⁻¹ dry weight	Perc. as MeHg %	δ ¹³ C ‰	δ ¹⁵ N ‰	C:N mass ratio	Length cm	Mass g	Latitude	Longitude	Collection date
MSC024AS	Barbus miolepis miolepis	Upper congo	1320	596	0.45	12.96	-25.75	4.1	7.15	4.92	0.783	24.467	3/1/47
MSC023AS	Barbus miolepis miolepis	Upper congo	874	737	0.84	12.56	-24.76	4.1	8.13	9.99	0.767	24.483	10/27/49
MSC022AS	Barbus miolepis miolepis	Upper congo	517	450	0.87	13.30	-23.55	4.0	7.57	5.53	0.750	24.467	11/8/49
MSC026AS	Barbus miolepis miolepis	Upper congo	302	297	0.98	12.94	-25.52	4.3	7.80	6.20	0.767	24.383	9/18/54
MSC027AS	Barbus miolepis miolepis	Upper congo	701	718	1.02	13.96	-27.32	4.3	9.75	12.29	0.883	24.483	9/13/54
MSC025AS	Barbus miolepis miolepis	Upper congo	519	501	0.97	12.82	-25.16	4.2	9.41	11.80	0.800	24.283	9/16/54
MSC039AS	Barbus vanderysti	Lower Congo	485	309	0.64	8.98	-19.64	4.1	9.57	8.57	-5.817	13.450	1/1/37
MSC120AS	Chromidotilapia kingsleyae	Gabon	1090	895	0.82	9.15	-27.42	4.0	9.96	17.26	-2.783	10.767	9/19/01
MSC122AS	Chromidotilapia kingsleyae	Gabon	3310	2800	0.85	14.91	-27.53	4.6	11.52	23.57	-1.117	10.033	10/13/64
MSC125AS	Chromidotilapia kingsleyae	Gabon	474	432	0.91	12.45	-27.21	4.0	6.42	3.37	-0.365	10.807	8/1/01
MSC121AS	Chromidotilapia kingsleyae	Gabon	846	798	0.94	12.53	-25.56	4.1	7.29	7.38	-1.683	13.650	9/23/01
MSC124AS	Chromidotilapia kingsleyae	Gabon	777	726	0.93	10.18	-33.77	3.9	10.08	12.77	-1.633	13.783	9/22/01
MSC119AS	Chromidotilapia kingsleyae	Gabon	862	788	0.91	9.99	-29.59	4.0	13.02	28.96	-0.583	9.933	2/18/00
MSC123AS	Chromidotilapia kingsleyae	Nearby Congo R	1090	591	0.56	10.70	-30.20	4.4	7.52	6.46	-4.867	12.500	1/0/00
MSC090AS	Chrysiichthys nigrodigitatus	Gabon	688	609	0.89	11.20	-28.43	4.0	17.22	34.78	-1.057	10.017	11/14/64
MSC078AS	Chrysiichthys nigrodigitatus	Gabon	666	592	0.89	12.17	-24.00	3.9	21.60	64.91	-0.801	8.917	3/27/00
MSC072AS	Chrysiichthys nigrodigitatus	Gabon	909	809	0.89	11.13	-27.38	4.0	7.77	4.51	unk	unk	9/1/93
MSC076AS	Chrysiichthys nigrodigitatus	Gabon	896	902	1.01	11.59	-27.55	3.9	17.24	35.79	0.845	11.376	2/9/01
MSC068AS	Chrysiichthys nigrodigitatus	Gabon	1550	1400	0.90	11.02	-34.12	3.8	11.35	9.35	-0.283	10.500	8/30/99
MSC073AS	Chrysiichthys nigrodigitatus	Gabon	555	545	0.98	11.60	-26.56	3.8	15.59	29.87	-1.054	10.989	7/1/01
MSC080AS	Chrysiichthys nigrodigitatus	Gabon	875	797	0.91	10.71	-27.64	3.7	30.00	154.80	-1.391	9.119	3/27/00
MSC079AS	Chrysiichthys nigrodigitatus	Gabon	568	563	0.99	11.65	-23.41	3.6	19.10	52.78	-0.801	8.917	3/27/00
MSC075AS	Chrysiichthys ogoensis	Gabon	762	629	0.83	12.67	-29.37	3.8	10.24	7.49	-0.521	12.823	9/10/01
MSC070AS	Chrysiichthys ogoensis	Gabon	948	805	0.85	11.65	-25.50	3.7	8.99	4.75	-0.283	11.733	6/2/88
MSC074AS	Chrysiichthys ogoensis	Gabon	1080	933	0.86	10.75	-28.19	4.0	7.49	3.85	unk	unk	9/1/93
MSC089AS	Chrysiichthys ogoensis	Gabon	1220	1060	0.87	13.08	-25.38	4.2	23.50	101.43	-2.933	10.988	10/8/98
MSC077AS	Chrysiichthys ogoensis	Gabon	430	382	0.89	12.43	-25.69	3.8	17.51	34.24	-0.801	8.917	3/26/00
MSC071AS	Chrysiichthys ogoensis	Gabon	837	745	0.89	12.97	-26.04	4.0	12.67	14.93	-0.700	10.217	11/11/64
MSC069AS	Distichodus hypostomatus	Gabon	458	314	0.69	13.74	-29.46	4.1	5.16	1.43	0.450	12.800	10/20/64
MSC086AS	Distichodus hypostomatus	Gabon	200	144	0.72	12.51	-25.35	4.0	12.13	23.49	0.000	11.000	9/3/78
MSC067AS	Distichodus hypostomatus	Gabon	179	141	0.79	11.66	-25.63	4.0	14.09	28.47	0.845	11.376	2/22/01
MSC081AS	Distichodus hypostomatus	Gabon	77	63	0.82	12.14	-27.94	4.2	15.71	56.02	0.954	10.986	2/18/01
MSC085AS	Distichodus hypostomatus	Gabon	259	228	0.88	14.38	-32.10	3.8	15.03	32.59	0.521	12.822	1/21/98
MSC084AS	Distichodus hypostomatus	Gabon	66	58	0.89	12.00	-22.33	4.2	16.33	47.16	-2.933	10.988	10/6/98
MSC087AS	Distichodus hypostomatus	Gabon	63	58	0.93	14.56	-30.35	4.7	14.32	35.95	0.567	12.850	11/26/64
MSC088AS	Distichodus hypostomatus	Gabon	236	216	0.92	12.91	-29.90	4.0	16.17	59.61	0.816	11.650	2/21/01
MSC083AS	Distichodus hypostomatus	Gabon	119	119	1.00	14.63	-31.87	3.8	16.15	51.27	0.522	12.824	9/5/11
MSC082AS	Distichodus hypostomatus	Gabon	48	46	0.97	12.70	-25.19	4.2	14.89	32.90	-1.133	12.483	1/0/00
MSC010AS	Haplochromis polli	Lower Congo	584	200	0.34	11.55	-25.34	4.3	3.2	0.61	-4.300	15.300	1/1/37
MSC012AS	Haplochromis polli	Lower Congo	845	377	0.45	12.19	-20.71	4.2	4.67	1.72	-4.300	15.300	1/1/54
MSC007AS	Haplochromis polli	Lower Congo	708	472	0.67	12.08	-20.79	4.1	5	2.13	-4.300	15.300	1/1/35
MSC013AS	Haplochromis polli	Lower Congo	652	446	0.68	12.52	-23.53	4.2	6.3	3.95	-4.300	15.300	7/1/53
MSC013AS	Haplochromis polli	Lower Congo	770	537	0.70	11.19	-24.36	4.1	4.99	1.62	-4.467	15.283	6/1/69
MSC014AS	Haplochromis polli	Lower Congo	596	417	0.70	12.17	-22.41	4.1	5.24	2.44	-4.300	15.300	1/1/67
MSC008AS	Haplochromis polli	Lower Congo	672	471	0.70	11.70	-20.69	4.3	5.75	3.31	-4.300	15.300	5/1/53
MSC009AS	Haplochromis polli	Lower Congo	541	403	0.74	11.40	-22.72	4.3	5	2.05	-4.300	15.300	1/1/34
MSC006AS	Haplochromis polli	Lower Congo	593	485	0.82	11.88	-24.19	4.1	7.2	6.89	-4.300	15.300	1/1/35
MSC015AS	Haplochromis polli	Lower Congo	529	504	0.95	12.65	-23.51	4.1	6.82	5.91	-4.333	15.217	6/1/64
MSC066AS	Hemichromis	Lower Congo	787	671	0.85	13.56	-22.97	4.0	6.29	4.42	-5.650	13.650	10/1/86
MSC064AS	Hemichromis	Upper congo	4310	4180	0.97	11.38	-27.25	4.0	9.83	15.84	0.450	25.367	3/29/87
MSC065AS	Hemichromis	Upper congo	1070	1000	0.93	10.83	-28.10	3.9	9.32	12.55	0.367	25.400	3/29/87
MSC016AS	Hemichromis bimaculatus	Lower Congo	1270	1190	0.94	12.31	-20.30	4.1	7.65	6.22	-4.300	15.300	1/1/35
MSC017AS	Hemichromis bimaculatus	Lower Congo	1540	1480	0.96	12.71	-20.99	4.1	7.6	8.37	-4.317	15.350	8/1/55
MSC114AS	Hemichromis fasciatus	Gabon	2340	1670	0.71	10.34	-29.42	3.9	10.49	22.11	unk	unk	9/1/93
MSC097AS	Hemichromis fasciatus	Gabon	101000	5180	0.05	15.48	-27.37	4.2	11.27	27.10	-1.067	10.017	11/14/64
MSC118AS	Hemichromis fasciatus	Gabon	1310	959	0.73	12.32	-27.96	4.0	11.90	24.34	1.399	11.408	2/24/01
MSC111AS	Hemichromis fasciatus	Gabon	5870	4450	0.76	12.25	-29.91	4.2	15.54	111.51	unk	unk	9/1/93
MSC116AS	Hemichromis fasciatus	Gabon	2100	1690	0.80	10.36	-28.63	4.0	8.56	10.29	-2.407	11.365	7/4/01
MSC106AS	Hemichromis fasciatus	Gabon	3670	2990	0.81	13.15	-28.65	4.0	14.38	46.57	-0.699	10.168	9/4/99
MSC110AS	Hemichromis fasciatus	Gabon	4490	3670	0.82	15.38	-27.58	4.4	10.50	16.91	-1.117	10.033	11/13/64
MSC011AS	Hemichromis fasciatus	Gabon	723	599	0.83	12.59	-28.28	3.9	7.24	5.34	0.450	12.800	10/25/74

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USGS ID	Fish name	Site	HgT ng g ⁻¹ dry weight	MeHg ng g ⁻¹ dry weight	Perc. as MeHg %	δ ¹⁵ N ‰	δ ¹³ C ‰	C:N mass ratio	Length cm	Mass g	Latitude	Longitude	Collection date
MSC109AS	Hemichromis fasciatus	Gabon	4310	3590	0.83	12.99	-27.08	4.0	11.67	23.86	-1.600	13.517	11/20/64
MSC115AS	Hemichromis fasciatus	Gabon	1620	1360	0.84	11.09	-26.04	4.0	12.27	26.51	-0.683	10.283	9/4/99
MSC118AS	Hemichromis fasciatus	Gabon	2200	1870	0.85	10.98	-32.00	4.2	12.94	34.14	-0.928	9.759	2/25/00
MSC113AS	Hemichromis fasciatus	Gabon	854	782	0.87	14.04	-26.36	4.1	9.29	13.72	-2.729	10.610	7/29/01
MSC093AS	Hemichromis fasciatus	Gabon	2640	2320	0.88	11.58	-28.20	4.7	13.15	41.44	-0.729	9.696	2/23/00
MSC094AS	Hemichromis fasciatus	Gabon	1130	1010	0.89	12.63	-30.13	4.0	11.89	25.3	-2.320	11.501	8/29/98
MSC099AS	Hemichromis fasciatus	Gabon	3390	3140	0.93	15.00	-28.92	3.9	17.00	104.02	-1.148	9.525	3/21/00
MSC102AS	Hemichromis fasciatus	Gabon	2580	2400	0.93	11.82	-30.17	4.0	13.92	39.41	-0.190	10.472	8/30/99
MSC091AS	Hemichromis fasciatus	Gabon	1100	1020	0.93	9.92	-26.62	4.0	14.39	50.45	-0.583	9.933	2/19/00
MSC098AS	Hemichromis fasciatus	Gabon	5260	5280	1.00	15.21	-28.89	4.0	11.72	21.22	-0.950	10.067	9/7/78
MSC092AS	Hemichromis fasciatus	Gabon	4230	4310	1.02	12.35	-27.72	4.2	14.78	59.19	-0.855	10.181	2/15/00
MSC118AS	Hemichromis fasciatus	Gabon	11600	10600	0.91	12.71	-28.86	3.9	14.90	49.06	0.986	12.856	10/5/01
MSC117AS	Hemichromis fasciatus	Gabon	471	455	0.97	10.99	-33.87	4.0	10.77	16.85	-1.550	14.217	9/22/01
MSC107AS	Hemichromis fasciatus	Gabon	1550	1460	0.94	9.54	-28.34	3.9	8.75	10.04	-2.790	10.777	7/29/01
MSC105AS	Hemichromis fasciatus	Lower Congo	1170	616	0.53	11.51	-29.00	4.3	7.99	7.42	0.067	18.333	1/0/00
MSC096AS	Hemichromis fasciatus	Nearby Congo R	5060	446	0.09	13.88	-26.29	4.1	7.77	8.14	1.333	27.567	1/0/00
MSC112AS	Hemichromis fasciatus	Nearby Congo R	1270	756	0.60	12.98	-26.49	4.2	9.39	14.14	1.333	27.567	1/0/00
MSC095AS	Hemichromis fasciatus	Nearby Congo R	2470	738	0.30	12.06	-30.44	4.4	7.48	6.04	1.333	27.567	1/16/14
MSC104AS	Hemichromis fasciatus	Nearby Congo R	879	717	0.82	10.25	-23.92	4.2	8.49	9.45	-4.383	20.383	1/0/00
MSC103AS	Hemichromis fasciatus	Nearby Congo R	975	794	0.81	12.53	-27.20	4.1	6.02	2.93	2.167	11.333	8/13/67
MSC088AS	Labeo	Lower Congo	938	476	0.51	10.47	-25.89	4.0	6.74	3.65	-4.300	15.300	1/1/67
MSC046AS	Labeo	Lower Congo	1310	882	0.67	12.67	-25.03	4.2	11.71	18.63	-4.300	15.300	1/1/67
MSC047AS	Labeo	Lower Congo	582	308	0.53	11.38	-25.21	4.2	7.16	3.88	-4.333	15.217	6/1/64
MSC042AS	Labeo	Upper congo	269	193	0.72	9.82	-19.95	4.4	6.84	3.37	0.483	25.217	2/15/90
MSC041AS	Labeo	Upper congo	296	214	0.72	11.17	-27.62	4.1	5.34	1.28	0.483	25.217	2/10/90
MSC040AS	Labeo	Upper congo	322	241	0.75	9.01	-22.26	3.9	6.24	2.02	0.233	25.567	5/21/90
MSC045AS	Labeo	Upper congo	398	299	0.75	9.06	-16.97	3.9	7.51	4.96	0.233	25.567	8/1/89
MSC044AS	Labeo	Upper congo	301	236	0.78	9.40	-21.64	3.9	7.12	3.81	0.233	25.567	2/8/90
MSC043AS	Labeo	Upper congo	269	217	0.81	9.54	-22.85	4.1	8.05	5.07	0.483	25.217	6/9/90
MSC038AS	Labeo annectens	Upper congo	355	267	0.75	9.39	-18.23	3.9	8.79	6.49	0.233	25.567	2/11/90
MSC034AS	Labeo annectens	Lower Congo	1030	515	0.50	5.33	-24.88	4.3	11.47	15.51	-4.300	15.300	4/30/12
MSC038AS	Labeo annectens	Lower Congo	312	183	0.59	8.51	-20.09	3.8	16.5	49.28	-4.283	15.433	9/6/57
MSC037AS	Labeo annectens	Lower Congo	167	125	0.75	8.21	-22.17	4.3	16.12	47.39	-5.817	13.050	1/1/37
MSC036AS	Labeo annectens	Lower Congo	700	696	0.99	7.85	-19.41	4.1	15.13	42.7	-4.317	15.350	8/1/55
MSC035AS	Labeo annectens	Upper congo	681	650	0.95	9.72	-32.34	3.9	8.34	6.03	0.500	25.200	6/2/87
MSC060AS	Lamprologus mocoquardi	Upper congo	799	376	0.47	11.17	-23.55	4.1	5.31	1.46	0.500	25.200	1/1/30
MSC056AS	Lamprologus mocoquardi	Upper congo	1410	908	0.64	13.15	-20.63	4.1	6.13	2.28	0.500	25.200	1/1/31
MSC062AS	Lamprologus mocoquardi	Upper congo	816	533	0.65	10.60	-23.51	4.1	6.79	2.54	0.550	25.067	7/10/73
MSC057AS	Lamprologus mocoquardi	Upper congo	942	776	0.82	13.78	-27.40	4.0	7.76	4.8	2.183	22.533	1/1/55
MSC058AS	Lamprologus mocoquardi	Upper congo	711	508	0.83	14.23	-26.13	4.0	7.51	3.6	2.183	22.533	1/1/55
MSC059AS	Lamprologus mocoquardi	Upper congo	1300	1080	0.83	12.32	-27.75	3.9	8.25	4.27	0.550	25.117	2/20/89
MSC061AS	Lamprologus mocoquardi	Upper congo	763	652	0.85	11.81	-26.61	4.2	8.49	4.83	0.550	25.117	3/5/88
MSC032AS	Orthochromis stormsi	Upper congo	1240	748	0.60	13.55	-21.63	4.5	6.44	3.85	0.500	25.200	6/17/12
MSC031AS	Orthochromis stormsi	Upper congo	638	450	0.71	11.69	-19.09	4.2	6.66	4.06	0.500	25.200	9/28/49
MSC029AS	Orthochromis stormsi	Upper congo	1070	799	0.75	11.62	-20.88	4.4	9.02	8.18	0.500	25.200	6/25/12
MSC028AS	Orthochromis stormsi	Upper congo	2100	1790	0.85	13.08	-22.22	4.3	6.59	4.80	0.500	25.200	8/5/47
MSC004AS	Orthochromis stormsi	Upper congo	765	696	0.91	10.88	-22.29	4.1	8.00	7.17	0.233	25.567	2/8/90
MSC030AS	Orthochromis stormsi	Upper congo	709	674	0.95	11.09	-19.77	4.1	8.30	9.21	0.233	25.567	2/8/90
MSC025AS	Orthochromis stormsi	Upper congo	593	537	0.91	10.77	-20.83	4.0	8.15	8.55	0.233	25.567	2/8/90
MSC063AS	Teleogramma brichardi	Lower Congo	1060	722	0.68	13.05	-28.13	4.1	9.2	6.76	-4.300	15.300	1/1/67
MSC021AS	Teleogramma brichardi	Lower Congo	1180	545	0.46	10.47	-19.25	4.3	11.98	34.97	-4.350	15.417	9/11/57
MSC019AS	Teleogramma brichardi	Lower Congo	769	367	0.48	9.41	-16.13	4.1	4.95	1.45	-4.300	15.300	1/1/34
MSC020AS	Teleogramma brichardi	Lower Congo	572	458	0.80	8.97	-23.56	4.2	6.30	5.65	-4.300	15.300	1/1/34
MSC018AS	Teleogramma brichardi	Lower Congo	409	367	0.90	8.06	-16.97	4.0	9.65	13.80	-4.167	15.517	10/26/57
MSC052AS	Tylochromis variabilis	Upper congo	1930	333	0.17	13.26	-23.73	4.0	4.41	1.04	0.783	24.467	3/1/60
MSC050AS	Tylochromis variabilis	Upper congo	844	274	0.32	11.21	-23.30	3.9	7.65	6.40	0.733	24.467	8/24/48
MSC053AS	Tylochromis variabilis	Upper congo	1150	379	0.33	12.94	-21.11	4.0	6.82	4.33	0.800	24.267	2/10/55
MSC049AS	Tylochromis variabilis	Upper congo	764	504	0.66	9.61	-21.96	4.0	4.53	1.02	0.550	25.067	7/10/73
MSC055AS	Tylochromis variabilis	Upper congo	485	306	0.69	9.15	-19.93	3.9	7.16	5.17	0.733	24.467	8/24/49
MSC051AS	Tylochromis variabilis	Upper congo	377	273	0.72	10.01	-21.01	3.9	9.10	11.19	0.750	24.467	7/7/48
MSC049AS	Tylochromis variabilis	Upper congo	377	308	0.82	10.65	-20.51	4.0	10.45	17.87	0.733	24.467	10/10/47

101 *Table S3: The quality assurance and control results from this study.*

Standard reference material	Number represented	Recovery percentage		$\delta^{202}\text{Hg}$		$\Delta^{199}\text{Hg}$		$\Delta^{200}\text{Hg}$		$\Delta^{201}\text{Hg}$		$\Delta^{204}\text{Hg}$	
		Average	2SD	Average	2SD	Average	2SD	Average	2SD	Average	2SD	Average	2SD
IAEA407	13	106%	8%	0.62	0.09	1.09	0.08	0.06	0.08	0.90	0.08	-0.03	0.07
LMLakeTrout20042211	6	NA	NA	1.54	0.04	5.45	0.05	0.11	0.02	4.29	0.03	-0.17	0.06
NIST 8610	54	NA	NA	-0.54	0.06	-0.02	0.06	0.01	0.04	-0.04	0.05	-0.01	0.08
Triplicates	2	NA	NA	Ave 2SD = 0.03		Ave 2SD = 0.05		Ave 2SD = 0.02		Ave 2SD = 0.05		Ave 2SD = 0.04	

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103 Citation

- 104 1. Ryan F. Lepak, Michael. T. Tate., Sarah E. Janssen, and Jacob M. Ogorek, African fish mercury burden and isotopic composition from
 105 archived museum specimens: U.S. Geological Survey Data Release. **2022**. <https://doi.org/10.5066/P9O6D1JY>.

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