

GREAT LAKES INDIAN FISH & WILDLIFE COMMISSION

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• MEMBER TRIBES •

MICHIGAN

Bay Mills Community
Keweenaw Bay Community
Lac Vieux Desert Band

WISCONSIN

Bad River Band
Lac Courte Oreilles Band
Lac du Flambeau Band

MINNESOTA

Fond du Lac Band
Mille Lacs Band

To: Neil Kmiecik, Biological Services Director

From: Sara Moses, Environmental Biologist

Date: November 29, 2011

Re: Results of Mercury Testing of Walleye Collected During Spring 2011

A handwritten signature in blue ink that reads "Sara K. Moses". The signature is written in a cursive style.

GLIFWC has collected information on mercury in walleye every year since 1989. The data are used to provide walleye consumption advice to member tribes so that tribal members can reduce their exposure to mercury while continuing to exercise their treaty rights to harvest and enjoy the health benefits of eating this resource. GLIFWC was funded through a U.S. EPA Great Lakes Restoration Initiative (GLRI) grant [GL00E00613-0] to collect and test for mercury up to 360 walleye from inland lakes within the ceded territories in 2011. The data are being used to revise and reprint GLIFWC's mercury maps in early 2012. The maps were last updated in 2006. All walleye collection and analysis was conducted according to the Quality Assurance Project Plan (QAPP) "Great Lakes Indian Fish and Wildlife Commission Mercury Testing and Updating Tribal Walleye Consumption Advice" approved June 24, 2011.

A total of 358 walleye were collected from 35 inland lakes within the 1837 and 1842 ceded territories of Wisconsin and from Mille Lacs in the 1837 ceded territory of Minnesota. The number of walleye collected from each targeted lake, by size class, is shown in the attached Table 1. More than 30 lakes were targeted for walleye collection to account for the inability to collect 12 fish from some lakes.

Skin-off walleye fillets were analyzed for total mercury content by the Lake Superior Research Institute (LSRI) at the University of Wisconsin, Superior. LSRI provided the final report detailing these analyses on September 28, 2011 together with a report of the QA/QC audit for these analyses. These reports are included as an appendix to this memo. With the exception of only one sample spike, all QA/QC samples were well within their respective acceptance ranges. Total mercury concentrations on a wet weight basis ranged from 0.064 to 1.19 $\mu\text{g/g}$ (parts per million or ppm). Figure 1 shows the number of walleye falling into each of 5 mercury concentration ranges. Summary statistics for walleye mercury concentrations by lake can be found in the attached Table 2. The results of mercury analysis for each individual sample are included in Table 3.

cc: John Coleman, Environmental Section Leader

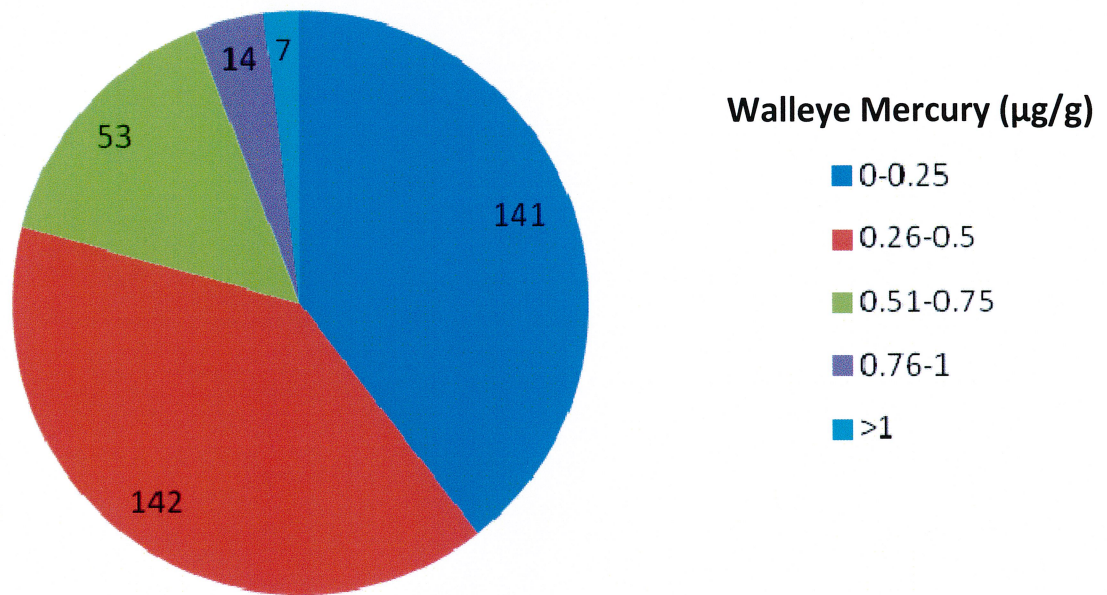


Figure 1: Number of walleye collected during Spring 2011 by mercury content.

Table 1: Number of Walleye Collected from Inland Lakes during Spring 2011

STATE	COUNTY	LAKE	Collected by: Warden/ Assessment Crew	12.0 to 14.9	15.0 to 17.9	18.0 to 22.0	> 22.0	Total Collected	% of Goal
MI	GOGEBIC	L GOGEBIC	North						0%
MN	MILLE LACS	MILLE LACS L	Mattson	3	3	3	2	11	92%
WI	BAYFIELD	NAMEKAGON L	Assessment	3	3	3	3	12	100%
WI	BAYFIELD	PIKE L CHAIN	Soulier	3	3	3	1	10	83%
WI	BURNETT	LITTLE YELLOW L	Kroeplin	1	3	3		7	58%
WI	BURNETT	YELLOW L	Kroeplin	3	3	3	2	11	92%
WI	CHIPPEWA	LONG L	Stone	3	3	3		9	75%
WI	FOREST	BUTTERNUT L	Assessment	4	4	3	1	12	100%
WI	FOREST	FRANKLIN L	McGeshick						0%
WI	FOREST	LILY L	McGeshick	3	3	3		9	75%
WI	IRON	TURTLE-FLAMBEAU FL	Moermond	3	3	3	3	12	100%
WI	LANGLADE	SAWYER L	McGeshick	1	3	3	2	9	75%
WI	LINCOLN	L MOHAWKSIN	Moermond	3	3			6	50%
WI	LINCOLN	RICE R FL CHAIN	Moermond	3	3	3	2	11	92%
WI	OCONTO	BASS L	McGeshick						0%
WI	OCONTO	BOOT L	McGeshick		2	2		4	33%
WI	ONEIDA	BEARSKIN L	Moermond	3	3	3	3	12	100%
WI	ONEIDA	BIG L	McGeshick	3	3	2	1	9	75%
WI	ONEIDA	BIG STONE L	McGeshick	3	3	1	1	8	67%
WI	ONEIDA	DAM L	Moermond	3	3	3	2	11	92%
WI	ONEIDA	GEORGE L	McGeshick	3	3	3		9	75%
WI	ONEIDA	MINOCQUA L	Moermond	3	3	3	3	12	100%
WI	ONEIDA	SQUIRREL L	Assessment	3	3	4	2	12	100%
WI	ONEIDA	WILLOW FL	Moermond	3	3	2		8	67%
WI	POLK	BIG BUTTERNUT L	Assessment	1	5	3	3	12	100%
WI	POLK	BIG ROUND L	Kroeplin						0%
WI	POLK	WAPOGASSET L	Kroeplin	3	3	3	3	12	100%
WI	PRICE	PIKE L	Moermond	3	3	3	2	11	92%
WI	SAWYER	L CHETAC	Popovich	3	3	3	3	12	100%
WI	SAWYER	L CHIPPEWA	Assessment	3	3	3	3	12	100%
WI	SAWYER	NELSON L	Soulier	2	3	3	3	11	92%
WI	SAWYER	SPIDER L	Popovich	3	3	3	3	12	100%
WI	VILAS	CRANBERRY L	McGeshick						0%
WI	VILAS	FISHTRAP L	Moermond						0%
WI	VILAS	HORSEHEAD L	Moermond	3	3			6	50%
WI	VILAS	KENTUCK L	Assessment	3	3	3	3	12	100%
WI	VILAS	LAC VIEUX DESERT	McGeshick	3	3	3	2	11	92%
WI	VILAS	LITTLE JOHN L	Moermond						0%
WI	VILAS	MAMIE L	Stone						0%
WI	VILAS	OXBOW L	Moermond						0%
WI	VILAS	SQUAW L	Assessment	4	7	1		12	100%
WI	VILAS	TENDERFOOT L	Stone						0%
WI	VILAS	TROUT L	Moermond						0%
WI	WASHBURN	BASS-PATTERSON L	Assessment	3	3	5	1	12	100%
WI	WASHBURN	LONG L	Popovich	3	3	3	1	10	83%
WI	WASHBURN	STONE L	Popovich	3	3	3		9	75%
TOTAL:				97	111	95	55	358	99.4%

* **Bold** entries represent GLIFWC long-term monitoring lakes.

Table 2: Summary Statistics by Lake for Mercury Concentrations ($\mu\text{g/g}$ wet weight) in Walleye Collected from Inland Lakes during Spring 2011

Lake	County	n	Length (Inches)		Weight (Pounds)		Mercury ($\mu\text{g/g}$ ww)	
			Range	Mean	Range	Mean	Range	Mean
Mille Lacs	Mille Lacs (MN)	11	14.2-22.3	18.0	0.95-3.96	2.12	0.08-0.16	0.11
Namekagon L	Bayfield	12	12.4-23.8	17.5	0.53-4.97	2.12	0.18-0.74	0.43
Pike L Chain	Bayfield	10	13.4-22.5	16.9	0.75-3.55	1.58	0.15-0.56	0.29
Little Yellow L	Burnett	7	14.2-19.2	16.7	0.98-2.84	1.22	0.13-0.21	0.17
Yellow L	Burnett	11	12.6-24.4	17.8	0.66-5.45	2.21	0.18-0.55	0.32
Long L	Chippewa	9	12.6-21.7	16.6	0.79-3.57	1.61	0.13-0.32	0.24
Butternut L	Forest	12	13.9-22.3	17.0	0.82-0.31	1.62	0.07-0.34	0.13
Lily L	Forest	9	14.3-21.5	16.6	0.85-3.10	1.49	0.20-0.89	0.41
Turtle-Flambeau Fl	Iron	12	14.2-24.2	18.1	0.78-4.96	2.21	0.28-1.16	0.62
Sawyer L	Langlade	9	14.8-25.8	18.7	0.99-5.67	2.29	0.14-1.02	0.45
L Mohawksin	Lincoln	6	13.7-15.6	14.9	0.81-1.17	1.04	0.31-0.60	0.47
Rice R Fl Chain	Lincoln	11	12.8-23.5	17.4	0.68-3.99	1.90	0.14-1.13	0.38
Boot L	Oconto	4	17.4-19.4	18.3	1.50-2.37	1.88	0.32-0.50	0.39
Bearskin L	Oneida	12	13.8-27.0	18.1	0.76-7.38	2.32	0.06-0.30	0.15
Big L	Oneida	9	12.5-26.0	16.8	0.56-5.89	1.91	0.35-1.02	0.68
Big Stone L	Oneida	8	12.2-22.9	16.2	0.55-4.60	1.66	0.09-0.84	0.40
Dam L	Oneida	11	13.3-25.8	18.2	0.78-6.11	2.68	0.22-0.81	0.48
George L	Oneida	9	14.0-22.0	16.4	0.88-4.18	1.56	0.17-0.44	0.26
Minocqua L	Oneida	12	13.8-24.6	18.9	0.72-4.96	2.54	0.12-0.43	0.27
Squirrel L	Oneida	12	13.2-22.7	18.0	0.71-4.66	2.31	0.21-0.61	0.37
Willow Fl	Oneida	8	12.9-18.4	15.6	0.68-2.27	1.31	0.40-0.77	0.57
Big Butternut L	Polk	11	14.6-23.5	18.2	0.87-4.10	2.19	0.11-0.63	0.21
Wapogasset L	Polk	12	12.0-26.5	18.9	0.54-7.91	2.89	0.09-0.46	0.23
Pike L	Price	11	12.3-24.5	18.2	0.55-5.43	2.52	0.33-1.19	0.55
L Chetac	Sawyer	12	13.7-27.0	19.2	0.90-5.85	2.66	0.12-0.39	0.21
L Chippewa	Sawyer	12	12.9-25.2	18.6	0.83-6.07	2.64	0.22-0.68	0.41
Nelson L	Sawyer	11	12.5-23.0	18.6	0.64-4.20	2.41	0.14-0.91	0.56
Spider L	Sawyer	12	14.4-23.8	18.4	0.83-4.81	2.17	0.27-0.79	0.46
Horsehead L	Vilas	6	12.4-17.9	14.7	0.52-2.22	1.05	0.11-0.54	0.24
Kentuck L	Vilas	12	12.8-24.2	18.1	0.69-5.46	2.45	0.26-0.56	0.41
Lac Vieux Desert	Vilas	11	14.2-27.4	17.8	0.88-6.43	2.00	0.12-0.59	0.23
Squaw L	Vilas	12	12.8-19.3	15.7	0.68-2.95	1.52	0.28-0.62	0.42
Bass-Patterson L	Washburn	12	13.1-25.3	17.4	0.68-5.41	1.92	0.16-0.80	0.30
Long L	Washburn	10	13.5-22.7	17.5	0.71-4.06	1.87	0.11-0.38	0.21
Stone L	Washburn	9	13.6-20.1	16.5	0.72-2.67	1.51	0.26-0.75	0.37

Table 3: Mercury Concentration ($\mu\text{g/g}$ wet weight), Length (inches), Sex and Mass (Pounds) of Individual Walleye Collected from Inland Lakes during the Spring 2011 Spawning Season

Lake	County	Sample Number	Date	Sex	Age	Length (Inches)	Weight (Pounds)	Mercury ($\mu\text{g/g}$ ww)
MILLE LACS (MN)	MILLE LACS	12999		F	5	14.2	0.95	0.085
MILLE LACS (MN)	MILLE LACS	12991		F	8	21.2	3.55	0.137
MILLE LACS (MN)	MILLE LACS	12998		F	9	22.1	3.36	0.155
MILLE LACS (MN)	MILLE LACS	12992		F	6	22.3	3.96	0.114
MILLE LACS (MN)	MILLE LACS	12996		M	4	14.6	1.07	0.102
MILLE LACS (MN)	MILLE LACS	12993		M	5	14.9	1.12	0.077
MILLE LACS (MN)	MILLE LACS	12994		M	5	16.3	1.42	0.079
MILLE LACS (MN)	MILLE LACS	12989		M	4	16.3	1.53	0.075
MILLE LACS (MN)	MILLE LACS	12997		M	6	18.8	2.26	0.095
MILLE LACS (MN)	MILLE LACS	13000		M	5	17.7	1.70	0.132
MILLE LACS (MN)	MILLE LACS	12995		M	8	19.9	2.42	0.141
NAMEKAGON L	BAYFIELD	12023	4/21/2011	F	10	19.2	2.5	0.441
NAMEKAGON L	BAYFIELD	12026	4/21/2011	F	10	22.2	3.664	0.548
NAMEKAGON L	BAYFIELD	12027	4/21/2011	F	10	23.5	4.652	0.434
NAMEKAGON L	BAYFIELD	12025	4/21/2011	F	10	23.8	4.965	0.735
NAMEKAGON L	BAYFIELD	12021	4/21/2011	M	5	12.4	0.529	0.191
NAMEKAGON L	BAYFIELD	12019	4/21/2011	M	5	12.7	0.608	0.22
NAMEKAGON L	BAYFIELD	12022	4/21/2011	M	5	12.8	0.644	0.182
NAMEKAGON L	BAYFIELD	12016	4/21/2011	M	6	15.2	1.12	0.434
NAMEKAGON L	BAYFIELD	12017	4/21/2011	M	6	16.0	1.327	0.319
NAMEKAGON L	BAYFIELD	12018	4/21/2011	M	7	16.2	1.358	0.392
NAMEKAGON L	BAYFIELD	12020	4/21/2011	M	9	18.0	1.865	0.526
NAMEKAGON L	BAYFIELD	12024	4/21/2011	M	9	18.4	2.228	0.664
PIKE L CHAIN	BAYFIELD	12685	4/20/2011	F	5	18.3	1.817	0.318
PIKE L CHAIN	BAYFIELD	12682	4/20/2011	F	10	22.5	3.554	0.562
PIKE L CHAIN	BAYFIELD	12680	4/20/2011	M	5	13.4	0.75	0.168
PIKE L CHAIN	BAYFIELD	12679	4/20/2011	M	4	14.1	0.829	0.148
PIKE L CHAIN	BAYFIELD	12683	4/20/2011	M	6	14.9	1.005	0.221
PIKE L CHAIN	BAYFIELD	12678	4/20/2011	M	5	15.0	0.952	0.177
PIKE L CHAIN	BAYFIELD	12677	4/20/2011	M	6	15.7	1.243	0.281
PIKE L CHAIN	BAYFIELD	12676	4/20/2011	M	7	16.5	1.279	0.229
PIKE L CHAIN	BAYFIELD	12681	4/20/2011	M	8	18.0	1.645	0.27
PIKE L CHAIN	BAYFIELD	12684	4/20/2011	M	7	20.3	2.716	0.564
LITTLE YELLOW L	BURNETT	12207	4/22/2011	F	4	15.2	1.217	0.131
LITTLE YELLOW L	BURNETT	12201	4/22/2011	F	7	18.9	2.756	0.22
LITTLE YELLOW L	BURNETT	12203	4/22/2011	F	6	18.9	2.835	0.17
LITTLE YELLOW L	BURNETT	12206	4/22/2011	F	8	19.2	2.813	0.213
LITTLE YELLOW L	BURNETT	12205	4/22/2011	M	4	14.2	0.983	0.165
LITTLE YELLOW L	BURNETT	12204	4/22/2011	M	7	15.2	1.239	0.151
LITTLE YELLOW L	BURNETT	12202	4/22/2011	M	5	15.5	1.371	0.142

(Table 3 Cont.)

Lake	County	Sample Number	Date	Sex	Age	Length (Inches)	Mass (Pounds)	Mercury ($\mu\text{g/g ww}$)
YELLOW L	BURNETT	12181	4/20/2011	F	8	19.1	2.443	0.332
YELLOW L	BURNETT	12183	4/20/2011	F	9	20.4	3.519	0.443
YELLOW L	BURNETT	12185	4/23/2011	F	10	22.0	3.492	0.552
YELLOW L	BURNETT	12186	4/23/2011	F	11	24.4	5.454	0.369
YELLOW L	BURNETT	12176	4/20/2011	M	8	12.6	0.657	0.191
YELLOW L	BURNETT	12178	4/20/2011	M	7	13.3	0.727	0.2
YELLOW L	BURNETT	12177	4/20/2011	M	7	14.2	0.811	0.428
YELLOW L	BURNETT	12179	4/20/2011	M	7	15.3	1.102	0.271
YELLOW L	BURNETT	12182	4/20/2011	M	6	16.0	1.213	0.176
YELLOW L	BURNETT	12180	4/20/2011	M	10	17.0	1.808	0.229
YELLOW L	BURNETT	12190	4/23/2011	M	12	21.2	3.06	0.35
LONG L	CHIPPEWA	12723	4/15/2011	F	8	21.7	3.567	0.309
LONG L	CHIPPEWA	12721	4/15/2011	M	4	12.6	0.573	0.131
LONG L	CHIPPEWA	12724	4/15/2011	M	6	14.3	0.794	0.202
LONG L	CHIPPEWA	12718	4/15/2011	M	6	14.5	0.86	0.323
LONG L	CHIPPEWA	12716	4/15/2011	M	6	15.2	1.089	0.223
LONG L	CHIPPEWA	12719	4/15/2011	M	9	16.4	1.495	0.301
LONG L	CHIPPEWA	12717	4/15/2011	M	6	16.9	1.574	0.238
LONG L	CHIPPEWA	12722	4/15/2011	M	7	18.6	2.094	0.26
LONG L	CHIPPEWA	12720	4/15/2011	M	6	18.9	2.407	0.202
BUTTERNUT L	FOREST	12037	5/2/2011	F	6	18.8	2.059	0.081
BUTTERNUT L	FOREST	12031	4/30/2011	M	5	13.9	0.816	0.087
BUTTERNUT L	FOREST	12039	5/4/2011	M	6	14.4	0.86	0.095
BUTTERNUT L	FOREST	12032	4/30/2011	M	5	14.5	0.926	0.087
BUTTERNUT L	FOREST	12033	4/30/2011	M	5	14.8	0.829	0.07
BUTTERNUT L	FOREST	12035	4/30/2011	M	6	15.0	0.97	0.081
BUTTERNUT L	FOREST	12040	5/4/2011	M	7	16.2	1.362	0.128
BUTTERNUT L	FOREST	12034	4/30/2011	M	7	16.9	1.565	0.125
BUTTERNUT L	FOREST	12036	4/30/2011	M	6	17.3	1.627	0.105
BUTTERNUT L	FOREST	12028	5/2/2011	M	7	19.7	2.394	0.162
BUTTERNUT L	FOREST	12030	5/2/2011	M	8	20.7	2.848	0.166
BUTTERNUT L	FOREST	12038	5/4/2011	M	11	22.3	3.144	0.337
LILY L	FOREST	12250	5/1/2011	F	8	18.3	2.244	0.886
LILY L	FOREST	12254	5/1/2011	M	5	14.3	0.847	0.275
LILY L	FOREST	12251	5/1/2011	M	5	14.7	0.899	0.203
LILY L	FOREST	12249	5/1/2011	M	5	14.8	0.935	0.311
LILY L	FOREST	12253	5/1/2011	M	8	15.2	1.063	0.353
LILY L	FOREST	12252	5/1/2011	M	5	15.3	0.948	0.345
LILY L	FOREST	12247	5/1/2011	M	5	16.2	1.226	0.316
LILY L	FOREST	12248	5/1/2011	M	6	18.7	2.116	0.345
LILY L	FOREST	12246	5/1/2011	M	10	21.5	3.095	0.624

(Table 3 Cont.)

Lake	County	Sample Number	Date	Sex	Age	Length (Inches)	Mass (Pounds)	Mercury ($\mu\text{g/g ww}$)
TURTLE-FLAMBEAU FL	IRON	12530	4/25/2011	F	6	16.6	1.495	0.594
TURTLE-FLAMBEAU FL	IRON	12446	4/25/2011	F	6	18.0	1.892	0.478
TURTLE-FLAMBEAU FL	IRON	12439	4/25/2011	F	8	18.2	2.041	0.442
TURTLE-FLAMBEAU FL	IRON	12526	4/25/2011	F	9	19.4	2.328	0.668
TURTLE-FLAMBEAU FL	IRON	12437	4/25/2011	F	14	24.0	4.912	1.16
TURTLE-FLAMBEAU FL	IRON	12438	4/25/2011	F	15	24.2	4.956	1.16
TURTLE-FLAMBEAU FL	IRON	12527	4/25/2011	M	4	14.2	0.776	0.402
TURTLE-FLAMBEAU FL	IRON	12462	4/25/2011	M	5	14.2	0.891	0.317
TURTLE-FLAMBEAU FL	IRON	12461	4/25/2011	M	5	14.3	0.838	0.281
TURTLE-FLAMBEAU FL	IRON	12528	4/25/2011	M	7	15.2	1.129	0.334
TURTLE-FLAMBEAU FL	IRON	12447	4/25/2011	M	8	15.5	1.164	0.481
TURTLE-FLAMBEAU FL	IRON	12448	4/25/2011	M	15	23.1	4.012	1.15
SAWYER L	LANGLADE	12288	4/19/2011	F	12	23.4	4.273	0.93
SAWYER L	LANGLADE	12285	4/19/2011	F	14	25.8	5.666	1.02
SAWYER L	LANGLADE	12287	4/19/2011	M	3	14.8	0.992	0.168
SAWYER L	LANGLADE	12276	4/19/2011	M	6	15.9	1.235	0.14
SAWYER L	LANGLADE	12282	4/19/2011	M	7	16.6	1.437	0.213
SAWYER L	LANGLADE	12283	4/19/2011	M	6	18.0	1.786	0.432
SAWYER L	LANGLADE	12286	4/19/2011	M	8	17.3	1.429	0.462
SAWYER L	LANGLADE	12281	4/19/2011	M	8	18.2	1.856	0.503
SAWYER L	LANGLADE	12284	4/19/2011	M	6	18.3	1.967	0.221
L MOHAWKSIN	LINCOLN	12433	4/21/2011	M	7	13.7	0.811	0.455
L MOHAWKSIN	LINCOLN	12432	4/21/2011	M	7	14.3	0.952	0.435
L MOHAWKSIN	LINCOLN	12431	4/21/2011	M	7	14.9	1.036	0.599
L MOHAWKSIN	LINCOLN	12436	4/21/2011	M	9	15.5	1.089	0.546
L MOHAWKSIN	LINCOLN	12434	4/21/2011	M	8	15.5	1.168	0.45
L MOHAWKSIN	LINCOLN	12435	4/21/2011	M	6	15.6	1.1733	0.31
RICE R FL CHAIN	LINCOLN	12418	4/25/2011	F	8	16.9	1.579	0.421
RICE R FL CHAIN	LINCOLN	12426	4/30/2011	F	10	20.5	2.509	0.376
RICE R FL CHAIN	LINCOLN	12425	4/30/2011	F	11	22.0	3.986	0.412
RICE R FL CHAIN	LINCOLN	12421	4/25/2011	M	4	12.8	0.692	0.141
RICE R FL CHAIN	LINCOLN	12422	4/25/2011	M	4	12.9	0.683	0.174
RICE R FL CHAIN	LINCOLN	12417	4/25/2011	M	7	14.2	0.988	0.221
RICE R FL CHAIN	LINCOLN	12420	4/25/2011	M	6	15.0	1.093	0.372
RICE R FL CHAIN	LINCOLN	12419	4/25/2011	M	6	15.5	1.168	0.205
RICE R FL CHAIN	LINCOLN	12416	4/25/2011	M	7	19.0	2.028	0.341
RICE R FL CHAIN	LINCOLN	12423	4/25/2011	M	9	19.0	2.522	0.408
RICE R FL CHAIN	LINCOLN	12424	4/30/2011	M	14	23.5	3.62	1.13
BOOT L	OCONTO	12301	4/29/2011	F	6	19.4	2.368	0.324
BOOT L	OCONTO	12302	4/29/2011	M	5	17.4	1.561	0.384
BOOT L	OCONTO	12304	4/29/2011	M	7	17.5	1.499	0.333
BOOT L	OCONTO	12303	4/29/2011	M	9	18.7	2.094	0.502

(Table 3 Cont.)

Lake	County	Sample Number	Date	Sex	Age	Length (Inches)	Mass (Pounds)	Mercury ($\mu\text{g/g ww}$)
BEARSKIN L	ONEIDA	12484	4/27/2011	F	7	19.2	2.262	0.157
BEARSKIN L	ONEIDA	12486	4/27/2011	F	9	22.0	3.748	0.217
BEARSKIN L	ONEIDA	12485	4/27/2011	F	11	23.5	4.894	0.194
BEARSKIN L	ONEIDA	12487	4/27/2011	F	13	27.0	7.381	0.300
BEARSKIN L	ONEIDA	12477	4/27/2011	M	5	13.8	0.763	0.064
BEARSKIN L	ONEIDA	12479	4/27/2011	M	5	14.0	0.864	0.094
BEARSKIN L	ONEIDA	12476	4/27/2011	M	6	14.5	0.825	0.101
BEARSKIN L	ONEIDA	12478	4/27/2011	M	8	15.0	1.115	0.099
BEARSKIN L	ONEIDA	12481	4/27/2011	M	6	15.2	1.005	0.097
BEARSKIN L	ONEIDA	12482	4/27/2011	M	6	16.2	1.292	0.119
BEARSKIN L	ONEIDA	12483	4/27/2011	M	11	18.1	1.914	0.187
BEARSKIN L	ONEIDA	12480	4/27/2011	M	10	18.2	1.781	0.141
BIG L	ONEIDA	12336	4/27/2011	F	8	15.2	1.063	0.835
BIG L	ONEIDA	12334	4/27/2011	F	5	15.3	1.089	0.349
BIG L	ONEIDA	12338	4/29/2011	F	10	19.8	2.813	0.698
BIG L	ONEIDA	12337	4/29/2011	F	10	20.0	3.012	0.793
BIG L	ONEIDA	12345	4/29/2011	F	11	26.0	5.886	0.881
BIG L	ONEIDA	12333	4/27/2011	M	4	12.5	0.56	0.457
BIG L	ONEIDA	12331	4/27/2011	M	5	13.0	0.608	0.577
BIG L	ONEIDA	12332	4/27/2011	M	6	13.0	0.67	0.465
BIG L	ONEIDA	12335	4/27/2011	M	10	16.7	1.526	1.02
BIG STONE L	ONEIDA	12368	4/25/2011	F	8	15.3	1.283	0.492
BIG STONE L	ONEIDA	12367	4/25/2011	F	5	15.5	1.107	0.181
BIG STONE L	ONEIDA	12362	4/25/2011	F	6	17.5	1.931	0.356
BIG STONE L	ONEIDA	12365	4/25/2011	F	11	19.9	2.438	0.836
BIG STONE L	ONEIDA	12364	4/25/2011	F	7	22.9	4.599	0.589
BIG STONE L	ONEIDA	12366	4/25/2011	M	4	12.2	0.547	0.09
BIG STONE L	ONEIDA	12363	4/25/2011	M	4	12.8	0.675	0.089
BIG STONE L	ONEIDA	12361	4/25/2011	M	6	13.2	0.701	0.56
DAM L	ONEIDA	12504	4/29/2011	F	5	14.3	0.908	0.252
DAM L	ONEIDA	12508	4/29/2011	F	8	16.3	1.327	0.354
DAM L	ONEIDA	12507	4/29/2011	F	8	16.8	1.539	0.341
DAM L	ONEIDA	12502	4/29/2011	F	8	17.4	3.986	0.423
DAM L	ONEIDA	12506	4/29/2011	F	8	19.1	2.584	0.485
DAM L	ONEIDA	12510	4/29/2011	F	10	19.9	3.263	0.731
DAM L	ONEIDA	12501	4/29/2011	F	9	21.0	3.624	0.574
DAM L	ONEIDA	12511	4/29/2011	F	12	22.8	4.586	0.729
DAM L	ONEIDA	12509	4/29/2011	F	11	25.8	6.111	0.809
DAM L	ONEIDA	12505	4/29/2011	M	5	13.3	0.776	0.216
DAM L	ONEIDA	12503	4/29/2011	M	6	13.9	0.829	0.4
GEORGE L	ONEIDA	12353	4/28/2011	F	7	14.5	0.877	0.204
GEORGE L	ONEIDA	12350	4/28/2011	F	8	18.0	1.892	0.271
GEORGE L	ONEIDA	12354	4/28/2011	F	9	22.0	4.176	0.438
GEORGE L	ONEIDA	12346	4/28/2011	M	6	14.0	0.904	0.174
GEORGE L	ONEIDA	12349	4/28/2011	M	7	14.8	0.988	0.209
GEORGE L	ONEIDA	12360	4/28/2011	M	6	15.0	1.058	0.189
GEORGE L	ONEIDA	12352	4/28/2011	M	10	15.5	1.138	0.202
GEORGE L	ONEIDA	12347	4/28/2011	M	7	15.6	1.142	0.25
GEORGE L	ONEIDA	12359	4/28/2011	M	10	18.1	2.002	0.376

(Table 3 Cont.)

Lake	County	Sample Number	Date	Sex	Age	Length (Inches)	Mass (Pounds)	Mercury ($\mu\text{g/g ww}$)
MINOCQUA L	ONEIDA	12467	4/29/2011	F	5	19.9	2.421	0.184
MINOCQUA L	ONEIDA	12471	4/29/2011	F	10	23.7	4.956	0.353
MINOCQUA L	ONEIDA	12473	4/29/2011	F	10	24.4	4.802	0.432
MINOCQUA L	ONEIDA	12474	4/29/2011	F	8	24.6	4.7	0.425
MINOCQUA L	ONEIDA	12469	4/29/2011	M	5	13.8	0.728	0.141
MINOCQUA L	ONEIDA	12472	4/29/2011	M	5	14.2	0.86	0.124
MINOCQUA L	ONEIDA	12466	4/29/2011	M	5	14.7	0.864	0.179
MINOCQUA L	ONEIDA	12463	4/29/2011	M	6	17.2	1.464	0.217
MINOCQUA L	ONEIDA	12465	4/29/2011	M	7	17.5	1.658	0.321
MINOCQUA L	ONEIDA	12464	4/29/2011	M	7	17.9	1.658	0.218
MINOCQUA L	ONEIDA	12470	4/29/2011	M	9	18.1	2.103	0.28
MINOCQUA L	ONEIDA	12468	4/29/2011	M	10	20.2	4.233	0.355
SQUIRREL L	ONEIDA	12054	4/29/2011	F	11	20.0	2.725	0.513
SQUIRREL L	ONEIDA	12048	4/29/2011	F	9	20.1	3.148	0.334
SQUIRREL L	ONEIDA	12058	4/29/2011	F	9	21.5	3.457	0.563
SQUIRREL L	ONEIDA	12047	4/29/2011	F	8	21.8	3.721	0.499
SQUIRREL L	ONEIDA	12052	4/29/2011	F	9	22.5	4.656	0.348
SQUIRREL L	ONEIDA	12060	4/29/2011	F	10	22.7	4.383	0.611
SQUIRREL L	ONEIDA	12053	4/29/2011	M	6	13.2	0.71	0.222
SQUIRREL L	ONEIDA	12051	4/29/2011	M	4	13.7	0.78	0.212
SQUIRREL L	ONEIDA	12050	4/29/2011	M	8	14.0	0.869	0.332
SQUIRREL L	ONEIDA	12055	4/29/2011	M	7	15.0	0.952	0.341
SQUIRREL L	ONEIDA	12057	4/29/2011	M	5	15.1	1.001	0.225
SQUIRREL L	ONEIDA	12056	4/29/2011	M	8	16.8	1.371	0.294
WILLOW FL	ONEIDA	12454	4/27/2011	F	6	15.5	1.301	0.493
WILLOW FL	ONEIDA	12456	4/27/2011	F	6	18.1	2.271	0.565
WILLOW FL	ONEIDA	12452	4/27/2011	M	5	12.9	0.683	0.42
WILLOW FL	ONEIDA	12449	4/27/2011	M	4	13.0	0.688	0.396
WILLOW FL	ONEIDA	12451	4/27/2011	M	6	14.7	0.957	0.642
WILLOW FL	ONEIDA	12450	4/27/2011	M	6	15.1	1.019	0.565
WILLOW FL	ONEIDA	12453	4/27/2011	M	8	16.8	1.495	0.734
WILLOW FL	ONEIDA	12455	4/27/2011	M	8	18.4	2.033	0.766
BIG BUTTERNUT L	POLK	11801	4/20/2011	F	7	21.4	3.695	0.122
BIG BUTTERNUT L	POLK	11805	4/20/2011	F	8	23.5	4.101	0.121
BIG BUTTERNUT L	POLK	11806	4/20/2011	M	6	14.6	0.873	0.148
BIG BUTTERNUT L	POLK	11895	4/20/2011	M	6	15.9	1.442	0.115
BIG BUTTERNUT L	POLK	11804	4/20/2011	M	4	16.1	1.446	0.117
BIG BUTTERNUT L	POLK	11899	4/20/2011	M	8	16.2	1.459	0.112
BIG BUTTERNUT L	POLK	11814	4/20/2011	M	6	16.3	1.517	0.125
BIG BUTTERNUT L	POLK	11810	4/20/2011	M	6	17.0	1.614	0.123
BIG BUTTERNUT L	POLK	11803	4/20/2011	M	5	18.1	1.949	0.115
BIG BUTTERNUT L	POLK	11811	4/20/2011	M	5	18.2	1.918	0.118
BIG BUTTERNUT L	POLK	11815	4/20/2011	M	12	22.4	3.814	0.625
BIG BUTTERNUT L	POLK	11809	4/20/2011	M	14	22.4	4.008	0.583

(Table 3 Cont.)

Lake	County	Sample Number	Date	Sex	Age	Length (Inches)	Mass (Pounds)	Mercury ($\mu\text{g/g ww}$)
WAPOGASSET L	POLK	12224	4/19/2011	F	11	25.3	6.358	0.269
WAPOGASSET L	POLK	12219	4/19/2011	F	13	26.5	7.906	0.296
WAPOGASSET L	POLK	12221	4/19/2011	F	12	27.0	5.913	0.457
WAPOGASSET L	POLK	12225	4/19/2011	M	4	12.0	0.556	0.098
WAPOGASSET L	POLK	12222	4/19/2011	M	6	12.2	0.538	0.086
WAPOGASSET L	POLK	12228	4/19/2011	M	6	13.3	0.825	0.089
WAPOGASSET L	POLK	12227	4/19/2011	M	5	16.1	1.243	0.125
WAPOGASSET L	POLK	12226	4/19/2011	M	9	17.5	1.728	0.255
WAPOGASSET L	POLK	12217	4/19/2011	M	9	17.8	1.984	0.199
WAPOGASSET L	POLK	12223	4/19/2011	M	10	19.5	2.416	0.182
WAPOGASSET L	POLK	12218	4/19/2011	M	11	19.5	2.566	0.421
WAPOGASSET L	POLK	12220	4/19/2011	M	10	20.0	2.663	0.225
PIKE L	PRICE	12523	4/22/2011	F	7	16.2	1.583	0.486
PIKE L	PRICE	12522	4/22/2011	F	7	17.0	1.808	0.505
PIKE L	PRICE	12520	4/22/2011	F	7	19.9	2.826	0.535
PIKE L	PRICE	12521	4/22/2011	F	11	21.2	4.061	0.574
PIKE L	PRICE	12529	4/24/2011	F	8	21.6	3.792	0.459
PIKE L	PRICE	12524	4/22/2011	F	13	22.7	4.586	0.543
PIKE L	PRICE	12525	4/22/2011	F	13	24.5	5.428	1.19
PIKE L	PRICE	12518	4/22/2011	M	5	12.3	0.547	0.359
PIKE L	PRICE	12516	4/22/2011	M	6	13.8	0.847	0.387
PIKE L	PRICE	12517	4/22/2011	M	6	14.9	0.939	0.331
PIKE L	PRICE	12519	4/22/2011	M	10	16.4	1.283	0.673
L CHETAC	SAWYER	12621	4/21/2011	F	10	25.3	5.56	0.385
L CHETAC	SAWYER	12623	4/21/2011	F	10	26.3	5.609	0.266
L CHETAC	SAWYER	12622	4/21/2011	F	11	27.0	5.851	0.308
L CHETAC	SAWYER	12628	4/21/2011	M	5	13.7	1.124	0.155
L CHETAC	SAWYER	12627	4/21/2011	M	4	14.0	0.895	0.172
L CHETAC	SAWYER	12629	4/21/2011	M	5	14.4	1.054	0.117
L CHETAC	SAWYER	12619	4/21/2011	M	6	15.2	0.957	0.213
L CHETAC	SAWYER	12617	4/21/2011	M	7	16.4	1.243	0.129
L CHETAC	SAWYER	12618	4/21/2011	M	4	17.7	1.698	0.158
L CHETAC	SAWYER	12620	4/21/2011	M	7	19.6	2.562	0.186
L CHETAC	SAWYER	12616	4/21/2011	M	9	20.1	2.703	0.234
L CHETAC	SAWYER	12630	4/21/2011	M	10	20.2	2.65	0.243
L CHIPPEWA	SAWYER	12085	4/29/2011	F	4	13.0	0.829	0.247
L CHIPPEWA	SAWYER	12082	4/29/2011	F	7	15.2	1.199	0.256
L CHIPPEWA	SAWYER	12077	4/29/2011	F	6	16.6	1.424	0.282
L CHIPPEWA	SAWYER	12081	4/29/2011	F	6	17.8	1.931	0.216
L CHIPPEWA	SAWYER	12080	4/29/2011	F	7	18.8	2.138	0.35
L CHIPPEWA	SAWYER	12078	4/29/2011	F	8	20.3	2.804	0.543
L CHIPPEWA	SAWYER	12079	4/29/2011	F	9	21.9	3.779	0.473
L CHIPPEWA	SAWYER	12076	4/29/2011	F	10	22.6	4.489	0.646
L CHIPPEWA	SAWYER	12087	4/29/2011	F	10	24.5	0.855	0.683
L CHIPPEWA	SAWYER	12083	4/29/2011	F	11	25.2	5.243	0.629
L CHIPPEWA	SAWYER	12086	4/29/2011	M	5	12.9	6.072	0.267
L CHIPPEWA	SAWYER	12084	4/29/2011	M	7	14.5	0.966	0.271

(Table 3 Cont.)

Lake	County	Sample Number	Date	Sex	Age	Length (Inches)	Mass (Pounds)	Mercury ($\mu\text{g/g ww}$)
NELSON L	SAWYER	12711	4/18/2011	M	4	12.5	0.644	0.139
NELSON L	SAWYER	12702	4/17/2011	M	6	14.1	0.97	0.46
NELSON L	SAWYER	12704	4/17/2011	M	9	15.7	1.067	0.198
NELSON L	SAWYER	12707	4/17/2011	M	7	15.9	1.301	0.352
NELSON L	SAWYER	12706	4/17/2011	M	7	17.2	1.609	0.575
NELSON L	SAWYER	12701	4/17/2011	M	13	18.8	2.35	0.914
NELSON L	SAWYER	12710	4/18/2011	M	12	20.4	2.518	0.807
NELSON L	SAWYER	12703	4/17/2011	M	7	21.9	3.982	0.48
NELSON L	SAWYER	12705	4/17/2011	M	10	22.5	3.814	0.826
NELSON L	SAWYER	12709	4/17/2011	M	13	23.0	4.101	0.766
NELSON L	SAWYER	12708	4/17/2011	M	11	23.0	4.202	0.638
SPIDER L	SAWYER	12644	4/23/2011	F	6	14.9	0.886	0.414
SPIDER L	SAWYER	12640	4/23/2011	F	6	16.1	1.583	0.458
SPIDER L	SAWYER	12636	4/23/2011	F	8	18.5	2.227	0.445
SPIDER L	SAWYER	12631	4/23/2011	F	9	19.7	2.527	0.51
SPIDER L	SAWYER	12634	4/23/2011	F	5	20.8	2.637	0.602
SPIDER L	SAWYER	12633	4/23/2011	F	9	22.2	3.492	0.362
SPIDER L	SAWYER	12637	4/23/2011	F	8	23.5	4.806	0.518
SPIDER L	SAWYER	12632	4/23/2011	F	9	23.8	3.84	0.789
SPIDER L	SAWYER	12643	4/23/2011	M	6	14.4	0.829	0.36
SPIDER L	SAWYER	12642	4/23/2011	M	6	14.7	0.842	0.417
SPIDER L	SAWYER	12635	4/23/2011	M	6	15.0	0.948	0.343
SPIDER L	SAWYER	12641	4/23/2011	M	7	17.3	1.459	0.274
HORSEHEAD L	VILAS	12578	4/30/2011	F	9	17.9	2.218	0.353
HORSEHEAD L	VILAS	12577	4/30/2011	M	5	12.4	0.516	0.105
HORSEHEAD L	VILAS	12576	4/30/2011	M	5	13.2	0.635	0.121
HORSEHEAD L	VILAS	12590	4/30/2011	M	4	13.5	0.719	0.135
HORSEHEAD L	VILAS	12583	4/30/2011	M	7	15.2	1.036	0.197
HORSEHEAD L	VILAS	12579	4/30/2011	M	7	15.8	1.195	0.543
KENTUCK L	VILAS	12107	4/29/2011	F	7	19.2	2.681	0.559
KENTUCK L	VILAS	12101	4/29/2011	F	8	21.6	3.779	0.477
KENTUCK L	VILAS	12111	4/29/2011	F	8	22.0	3.783	0.372
KENTUCK L	VILAS	12112	4/29/2011	F	8	23.1	5.168	0.395
KENTUCK L	VILAS	12103	4/29/2011	F	10	24.2	5.459	0.496
KENTUCK L	VILAS	12108	4/29/2011	M	5	12.8	0.692	0.256
KENTUCK L	VILAS	12110	4/29/2011	M	4	13.1	0.692	0.324
KENTUCK L	VILAS	12109	4/29/2011	M	6	13.3	0.829	0.375
KENTUCK L	VILAS	12106	4/29/2011	M	6	16.0	1.217	0.415
KENTUCK L	VILAS	12102	4/29/2011	M	6	16.5	1.433	0.402
KENTUCK L	VILAS	12105	4/29/2011	M	7	16.8	1.658	0.389
KENTUCK L	VILAS	12104	4/29/2011	M	10	18.7	2.037	0.49

(Table 3 Cont.)

Lake	County	Sample Number	Date	Sex	Age	Length (Inches)	Mass (Pounds)	Mercury ($\mu\text{g/g ww}$)
LAC VIEUX DESERT	VILAS	12385	5/2/2011	F	11	22.9	3.699	0.282
LAC VIEUX DESERT	VILAS	12387	5/2/2011	F	13	27.4	6.425	0.593
LAC VIEUX DESERT	VILAS	12383	5/2/2011	M	7	14.2	0.882	0.115
LAC VIEUX DESERT	VILAS	12379	5/2/2011	M	7	14.7	1.107	0.152
LAC VIEUX DESERT	VILAS	12381	5/2/2011	M	8	15.2	1.08	0.175
LAC VIEUX DESERT	VILAS	12378	5/2/2011	M	8	15.4	1.063	0.176
LAC VIEUX DESERT	VILAS	12376	5/2/2011	M	5	15.7	1.177	0.149
LAC VIEUX DESERT	VILAS	12377	5/2/2011	M	8	16.2	1.235	0.194
LAC VIEUX DESERT	VILAS	12380	5/2/2011	M	6	16.8	1.415	0.132
LAC VIEUX DESERT	VILAS	12384	5/2/2011	M	8	18.3	1.905	0.253
LAC VIEUX DESERT	VILAS	12382	5/2/2011	M	10	19.4	2.064	0.29
SQUAW L	VILAS	12119	4/22/2011	F	6	14.5	1.177	0.285
SQUAW L	VILAS	12120	4/22/2011	F	4	15.2	1.367	0.325
SQUAW L	VILAS	12127	4/22/2011	F	6	15.7	1.57	0.551
SQUAW L	VILAS	12124	4/22/2011	F	6	16.0	1.437	0.424
SQUAW L	VILAS	12126	4/22/2011	F	9	16.0	1.702	0.584
SQUAW L	VILAS	12122	4/22/2011	F	11	16.3	1.773	0.402
SQUAW L	VILAS	12118	4/22/2011	F	9	17.4	1.79	0.504
SQUAW L	VILAS	12125	4/22/2011	F	10	17.7	1.781	0.619
SQUAW L	VILAS	12123	4/22/2011	F	8	19.3	2.95	0.372
SQUAW L	VILAS	12116	4/22/2011	M	4	12.8	0.675	0.331
SQUAW L	VILAS	12117	4/22/2011	M	5	13.6	0.966	0.289
SQUAW L	VILAS	12121	4/22/2011	M	6	14.0	1.01	0.311
BASS-PATTERSON L	WASHBURN	11894	4/18/2011	F	3	13.8	0.877	0.165
BASS-PATTERSON L	WASHBURN	11900	4/18/2011	F	5	18.8	2.209	0.213
BASS-PATTERSON L	WASHBURN	11886	4/18/2011	F	5	19.0	2.337	0.301
BASS-PATTERSON L	WASHBURN	11893	4/18/2011	F	6	21.5	3.086	0.33
BASS-PATTERSON L	WASHBURN	11892	4/18/2011	F	11	25.3	5.41	0.804
BASS-PATTERSON L	WASHBURN	11897	4/18/2011	M	3	13.1	0.683	0.18
BASS-PATTERSON L	WASHBURN	11888	4/18/2011	M	3	14.5	0.926	0.156
BASS-PATTERSON L	WASHBURN	11890	4/18/2011	M	4	15.3	1.195	0.203
BASS-PATTERSON L	WASHBURN	11898	4/18/2011	M	6	16.0	1.204	0.279
BASS-PATTERSON L	WASHBURN	11891	4/18/2011	M	5	16.3	1.362	0.216
BASS-PATTERSON L	WASHBURN	11889	4/18/2011	M	7	18.3	1.87	0.455
LONG L	WASHBURN	12655	4/29/2011	F	7	22.7	4.057	0.149
LONG L	WASHBURN	12653	4/29/2011	M	4	13.5	0.705	0.106
LONG L	WASHBURN	12646	4/29/2011	M	6	14.3	0.913	0.153
LONG L	WASHBURN	12648	4/29/2011	M	8	14.9	0.904	0.186
LONG L	WASHBURN	12654	4/29/2011	M	6	15.6	1.177	0.185
LONG L	WASHBURN	12651	4/29/2011	M	5	16.2	1.314	0.158
LONG L	WASHBURN	12652	4/29/2011	M	6	17.2	1.715	0.206
LONG L	WASHBURN	12650	4/29/2011	M	7	18.7	2.191	0.23
LONG L	WASHBURN	12647	4/29/2011	M	9	20.3	2.751	0.381
LONG L	WASHBURN	12649	4/29/2011	M	9	21.3	2.981	0.348

(Table 3 Cont.)

Lake	County	Sample Number	Date	Sex	Age	Length (Inches)	Mass (Pounds)	Mercury ($\mu\text{g/g ww}$)
STONE L	WASHBURN	12662	4/19/2011	F	6	17.3	1.737	0.29
STONE L	WASHBURN	12663	4/19/2011	F	6	19.0	2.355	0.387
STONE L	WASHBURN	12668	4/19/2011	F	7	20.1	2.668	0.746
STONE L	WASHBURN	12664	4/19/2011	M	5	13.2	0.794	0.311
STONE L	WASHBURN	12669	4/19/2011	M	4	13.6	0.723	0.244
STONE L	WASHBURN	12665	4/19/2011	M	3	14.2	0.891	0.255
STONE L	WASHBURN	12661	4/19/2011	M	5	16.1	1.279	0.268
STONE L	WASHBURN	12667	4/19/2011	M	5	16.5	1.393	0.284
STONE L	WASHBURN	12666	4/19/2011	M	6	18.1	1.728	0.517

APPENDIX 1

LSRI Analytical and QA/QC Reports on Mercury Analysis of Walleye Collected and During Spring 2011