

Alger County

Northern Pike

Au Train Basin

Alger County

Hg Analysis:

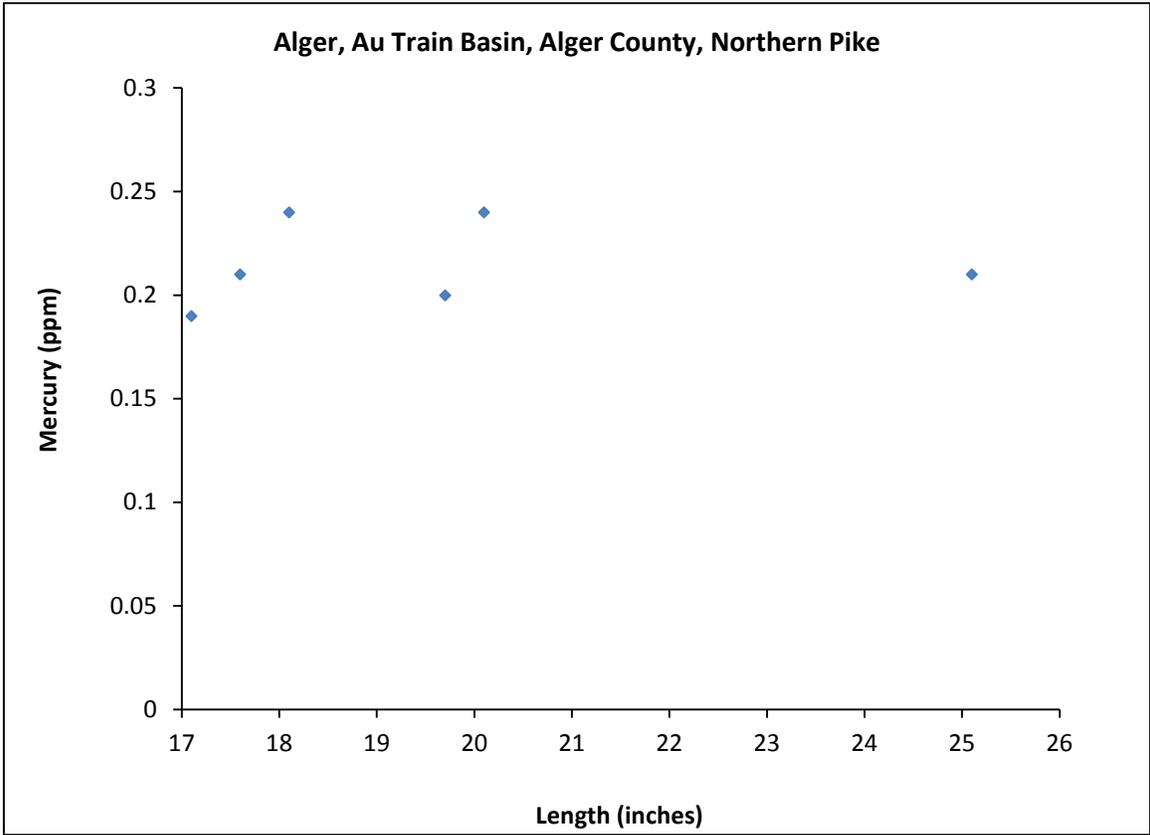
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
1990	1990	6	17.1	24	17.1	25.1
Datasets available: 1990						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.22	0.19	0.24	0.24	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.004	0.006				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Au Train Basin northern pike are covered under the statewide mercury consumption advisory.

Recommendation: Dataset is limited due to the small number of legal length samples and is insufficient to provide a guideline. The statewide guidelines apply: No one should eat more than 1 meal per month of northern pike larger than 30 inches or more than 2 meals per month of northern pike smaller than 30 inches in length.



Yellow Perch

Au Train Basin

Alger County

Hg Analysis:

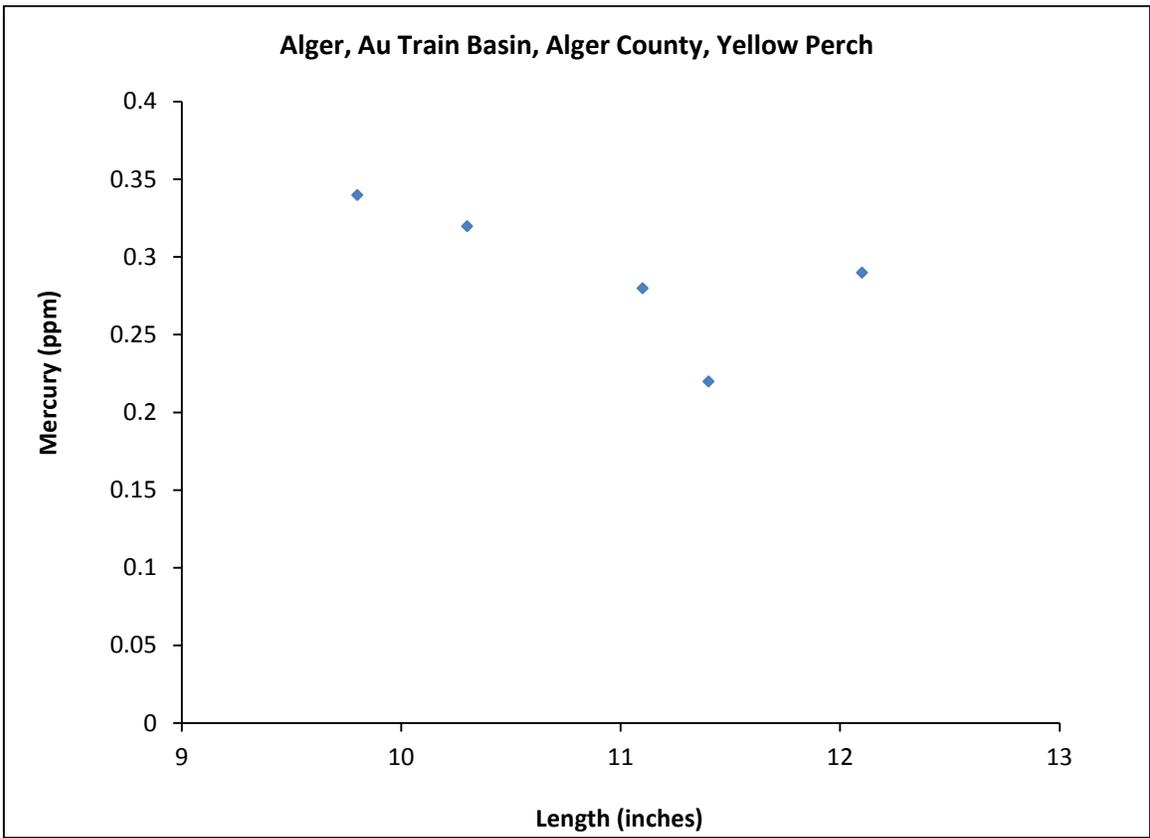
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1990	1990	5	9.8	na	9.8	12.1
Datasets available: 1990						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.29	0.22	0.34	0.35	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.438	0.386				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available:						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Au Train Basin yellow perch are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 2 meals per month of Au Train Basin yellow perch due to mercury.



Northern Pike

Au Train Lake

Alger County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	1993	17	17.2	24	24	34.4
Datasets available: 1987, 1993						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	9	0.36	0.16	0.65	0.45	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.865	0.824				

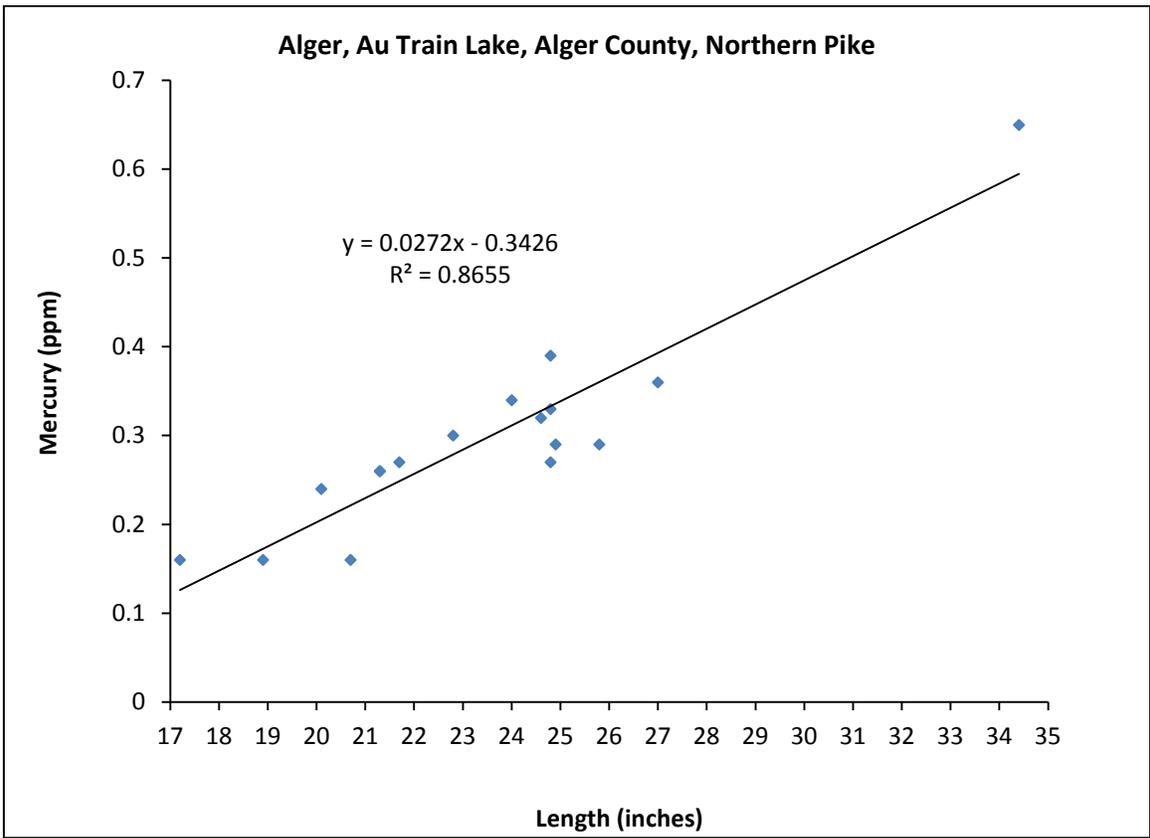
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Women and children should not eat more than one meal per month of Au Train Lake northern pike greater than 30 inches in length due to mercury.

Recommendation: No one should eat more than 1 meal per month of Au Train Lake northern pike larger than 30 inches or more than 2 meals per month of those fish smaller than 30 inches in length. Statewide length break applied due to small sample size over 30 inches.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
24	0.310	2
25	0.337	2
26	0.365	2
27	0.392	2
28	0.419	2
29	0.446	2
30	0.473	2
32	0.528	2
34	0.582	1
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Au Train Lake

Alger County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	2005	22	13.8	15	14.6	29.8
Datasets available: 1987, 1993, 2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	18	0.56	0.23	1.74	0.74	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.425	0.566				

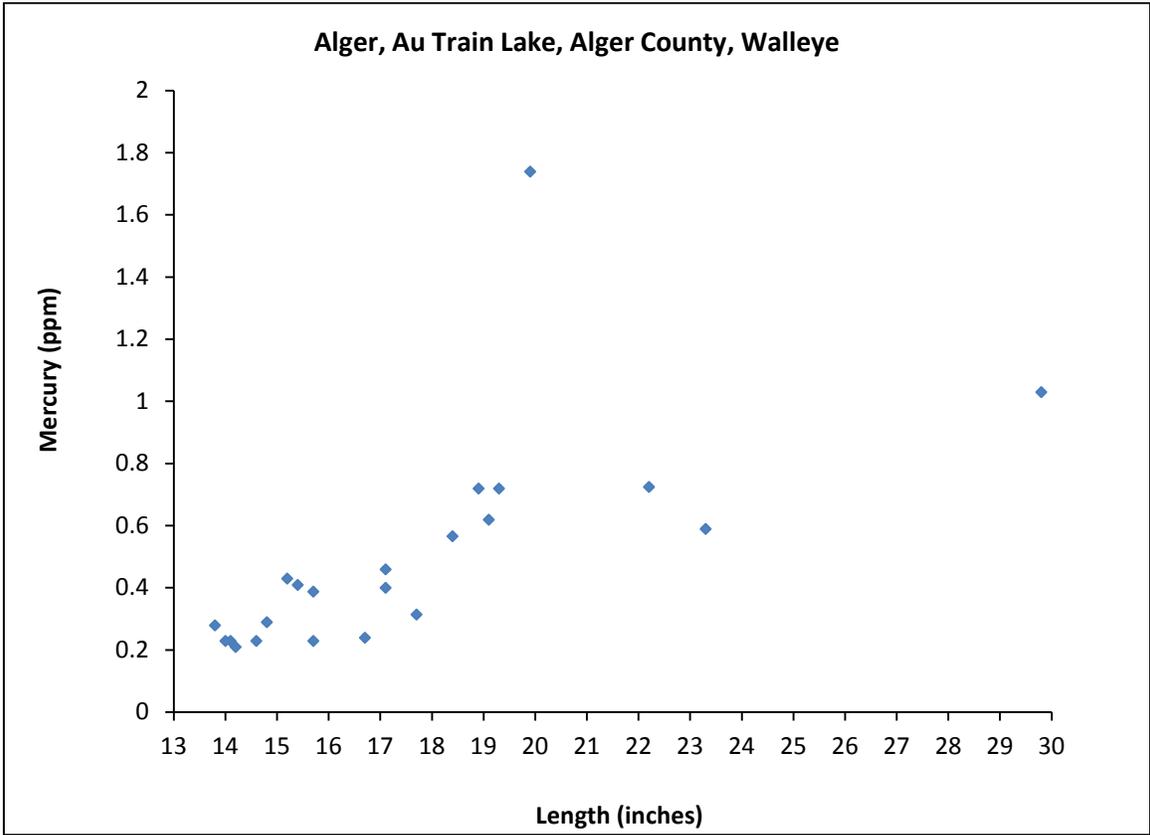
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Au Train Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of Au Train Lake walleye due to mercury.

Note: Removal of one "outlier" produces a significant regression but does not change UCL significantly.



Yellow Perch

Au Train Lake

Alger County

Hg Analysis:

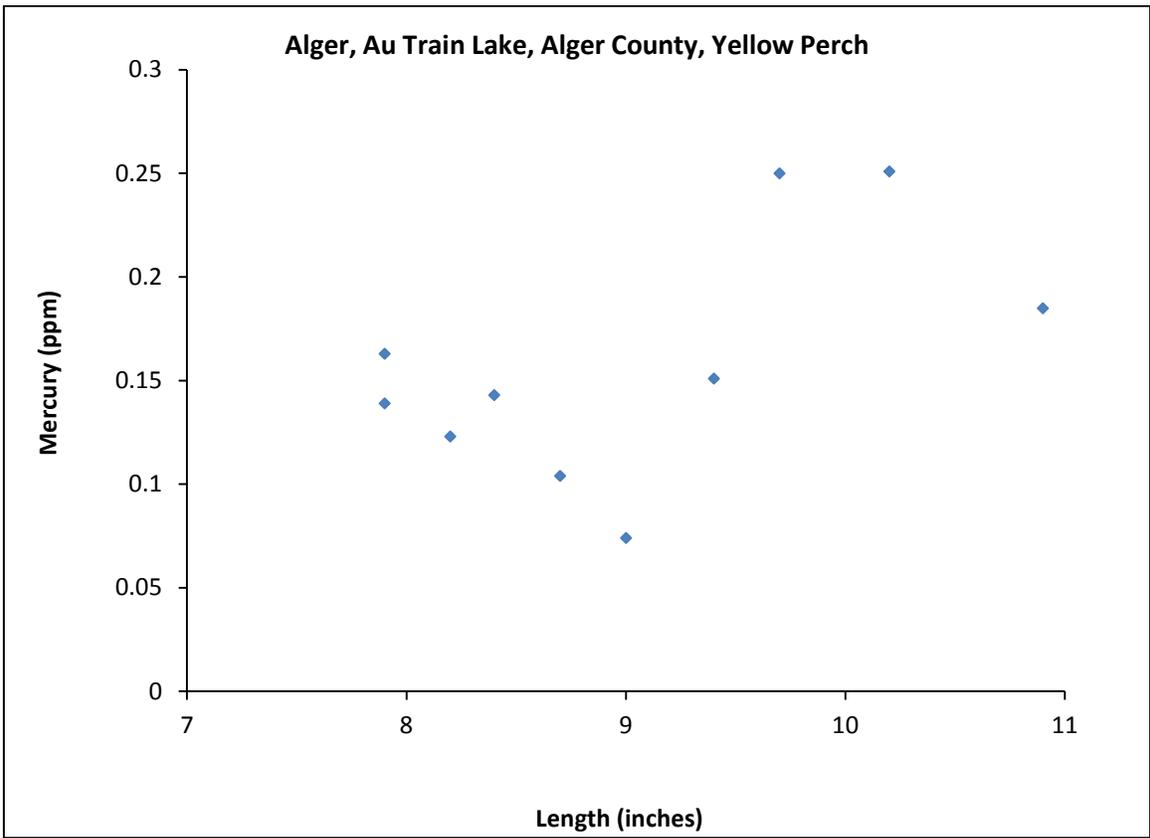
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2005	2005	10	7.9	na	7.9	10.9
Datasets available: 2005						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.16	0.07	0.25	0.20	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.314	0.241				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Women and children should not eat more than one meal per week of Au Train Lake yellow perch larger than 12 inches due to mercury.

Recommendation: No one should eat more than 4 meals per month of Au Train Lake yellow perch due to mercury.



Walleye

Beaver Lake

Alger County

Hg Analysis:

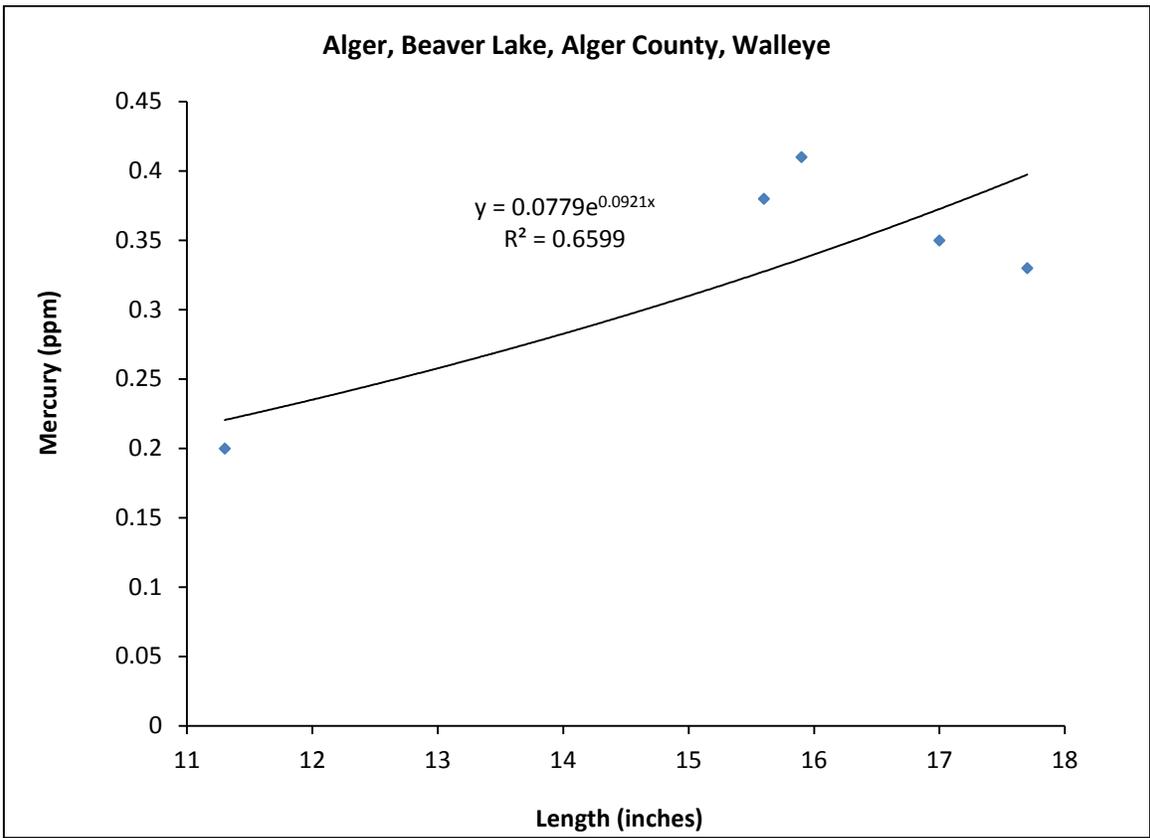
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
2003	2003	5	11.3	15	11.3	17.7
Datasets available: 2003						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.334	0.200	0.410	0.430	2
Chemical	Linear Regression	Exponential Regression	Regression was not used because the slope is determined by one data point.			
	R ²	R ²				
Mercury	0.578	0.660				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Beaver Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of Beaver Lake walleye larger than 20 inches or more than 2 meals per month of those fish smaller than 20 inches due to mercury. Statewide length break applied as the size of the fish was limited.



Yellow Perch

Beaver Lake

Alger County

Hg Analysis:

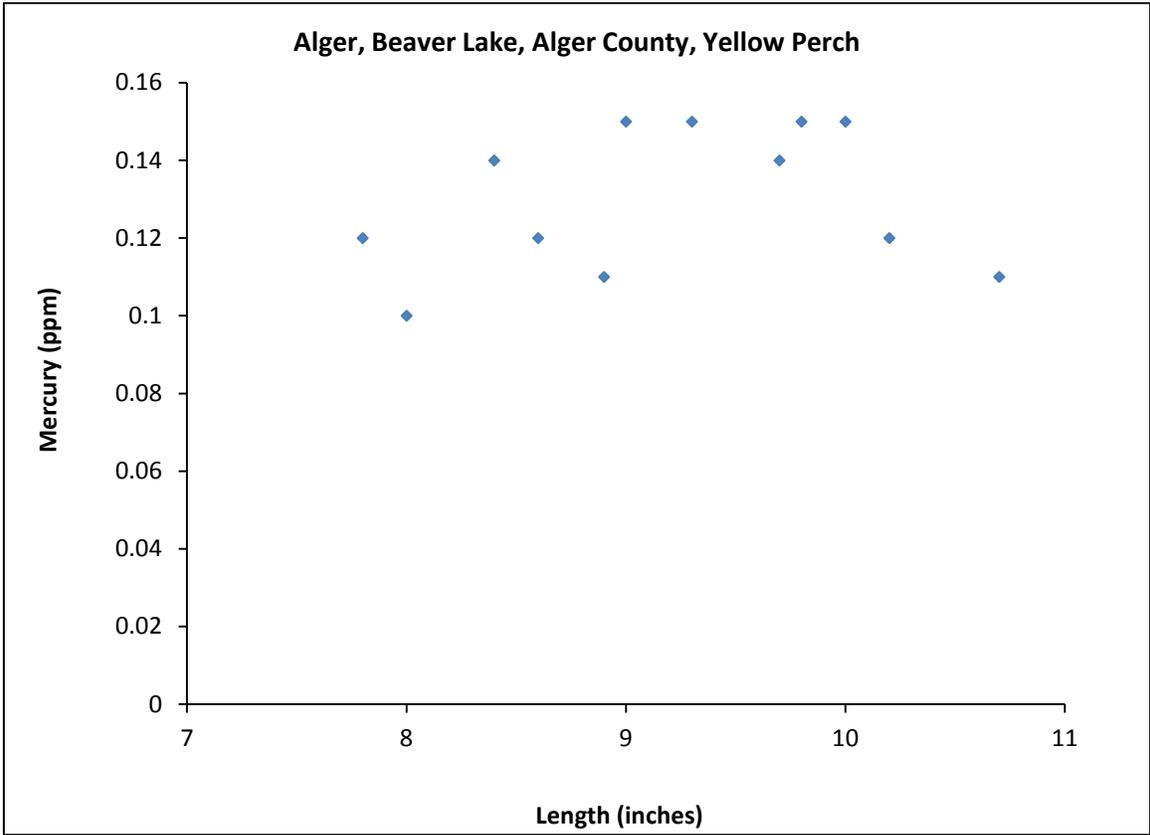
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2003	2003	12	7.8	na	7.8	10.7
Datasets available: 2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	12	0.13	0.10	0.15	0.14	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.059	0.060				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Beaver Lake yellow perch are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 4 meals per month of Beaver Lake yellow perch due to mercury.



Northern Pike

Deer Lake

Alger County

Hg Analysis:

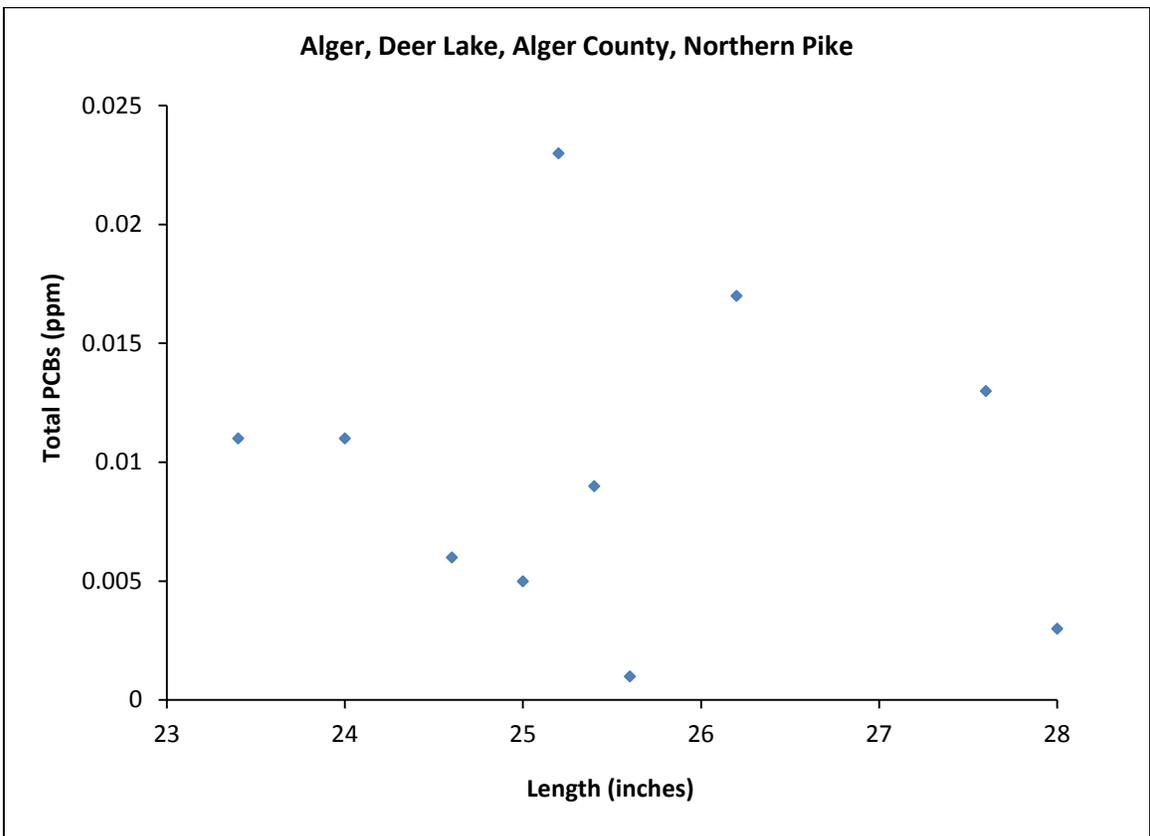
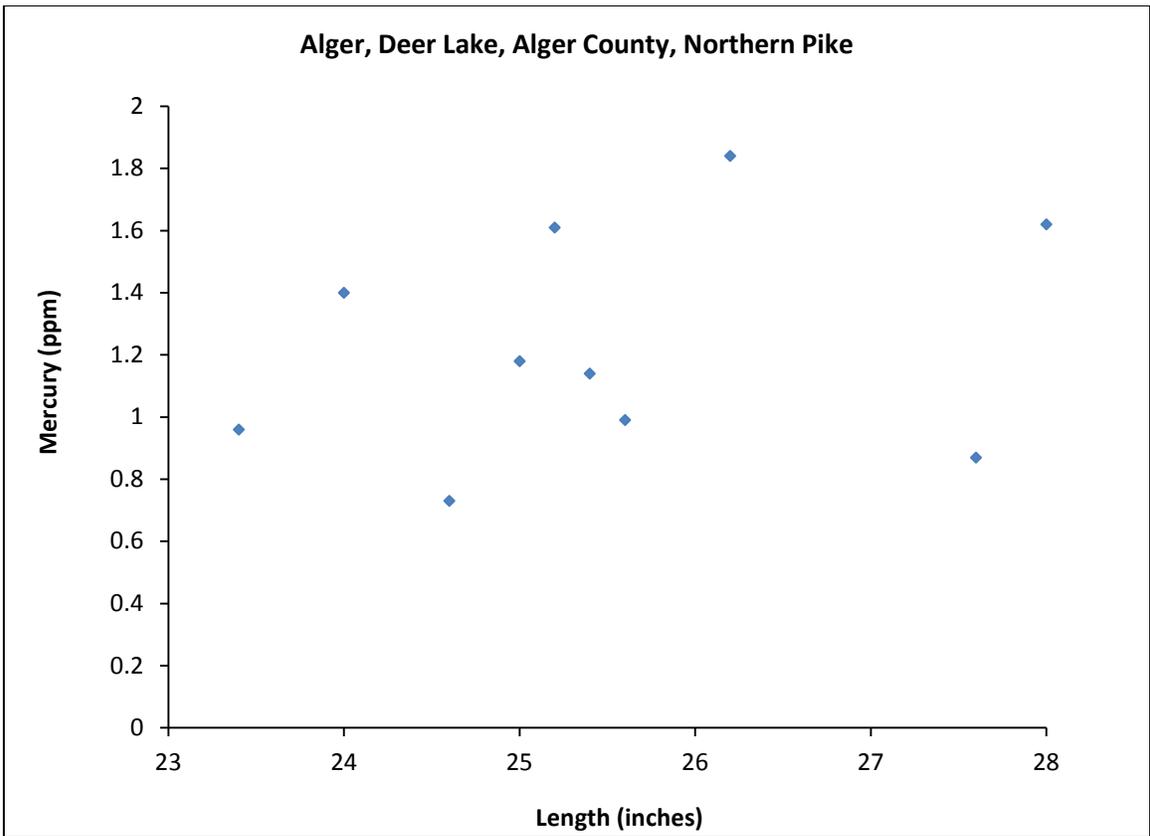
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2004	2004	10	23.4	24	23.4	28
Datasets available: 2004						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	1.23	0.73	1.84	1.50	0.5
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.074	0.060				

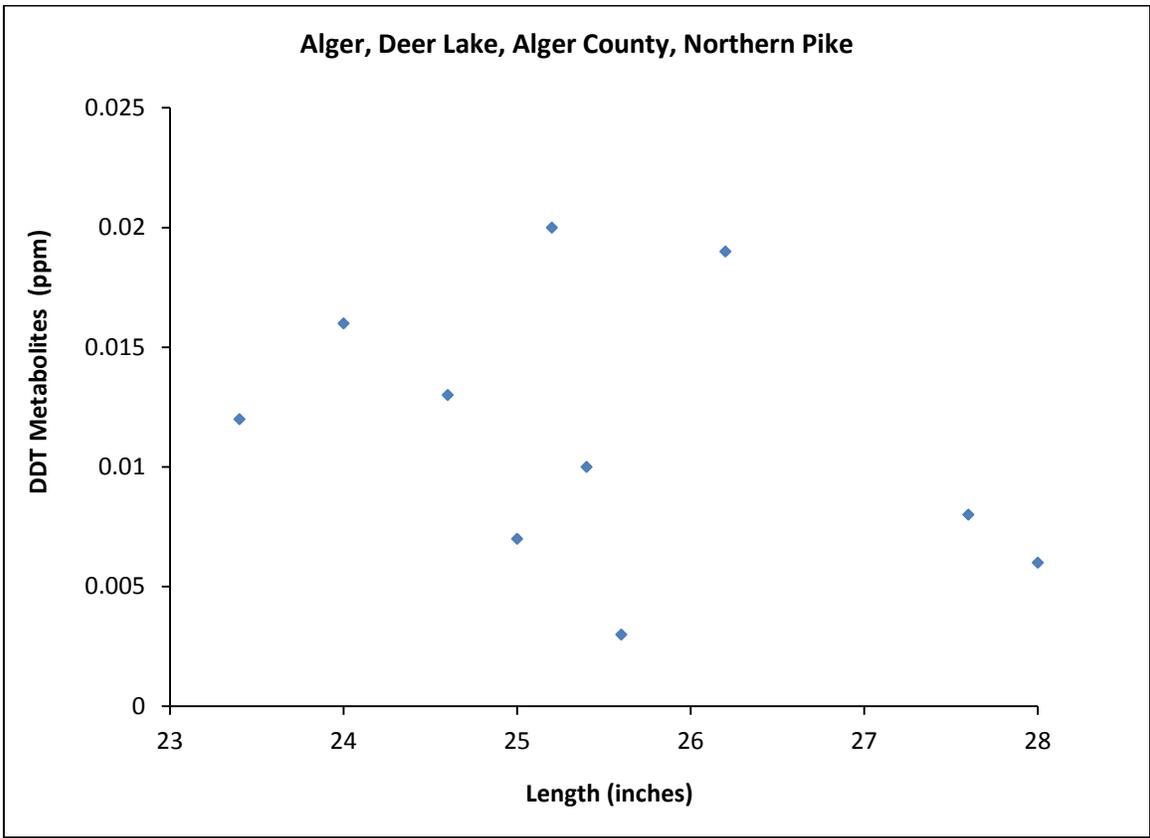
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2004	2004	10	23.4	24	23.4	28
Datasets available: 2004						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	0.01	0.001	0.02	0.01	16
DDT	10	0.01	0.003	0.02	0.02	16
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.009	0.030				
DDT	0.123	0.130				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						0.5

Existing Advisory: Women and children should not eat more than one meal per month of Deer Lake northern pike smaller than 26 inches and no one should eat any Deer Lake northern pike larger than 26 inches due to mercury.

Recommendation: No one should eat more than 6 meals per year of Deer Lake (Alger County) northern pike less than 30 inches or any of those fish over 30 inches due to mercury. Statewide length break applied as the size of the fish was limited.





Northern Pike

Echo Lake

Alger County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1995	1995	10	23.2	24	23.2	31.2
Datasets available: 1995						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.64	0.40	1.03	0.81	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.704	0.683				

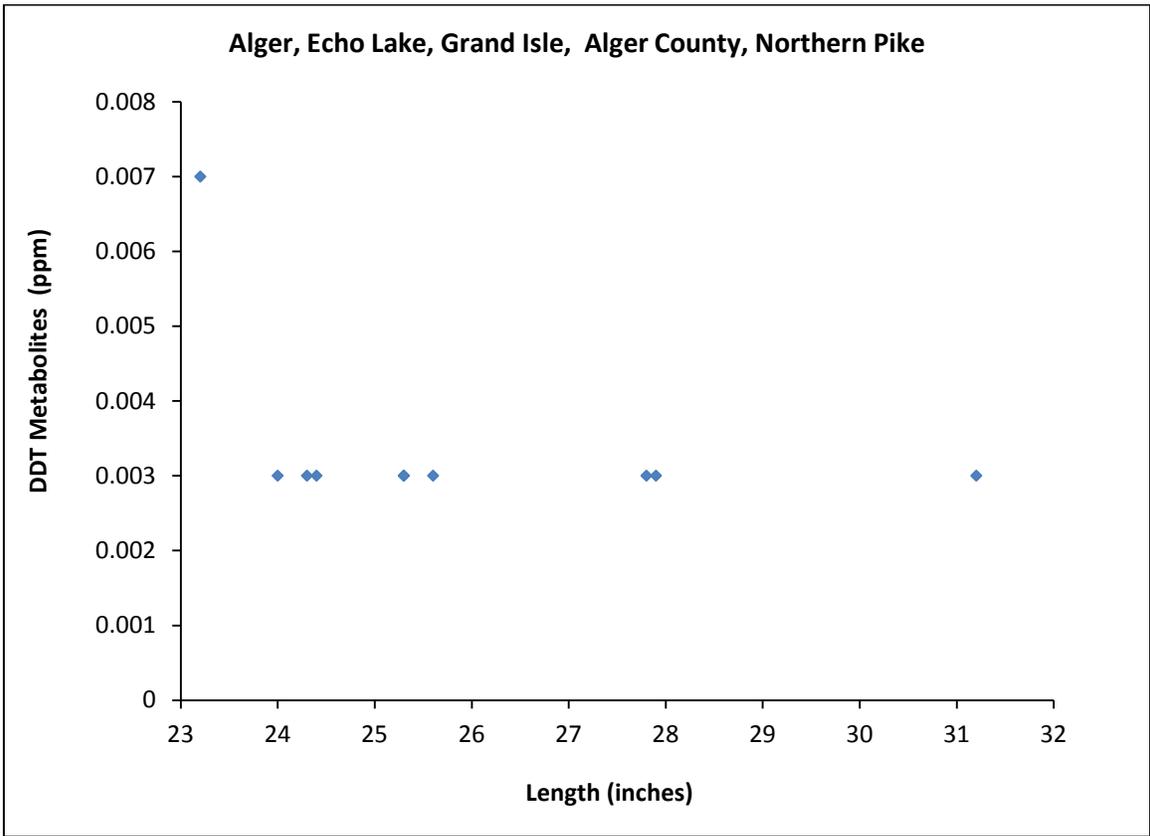
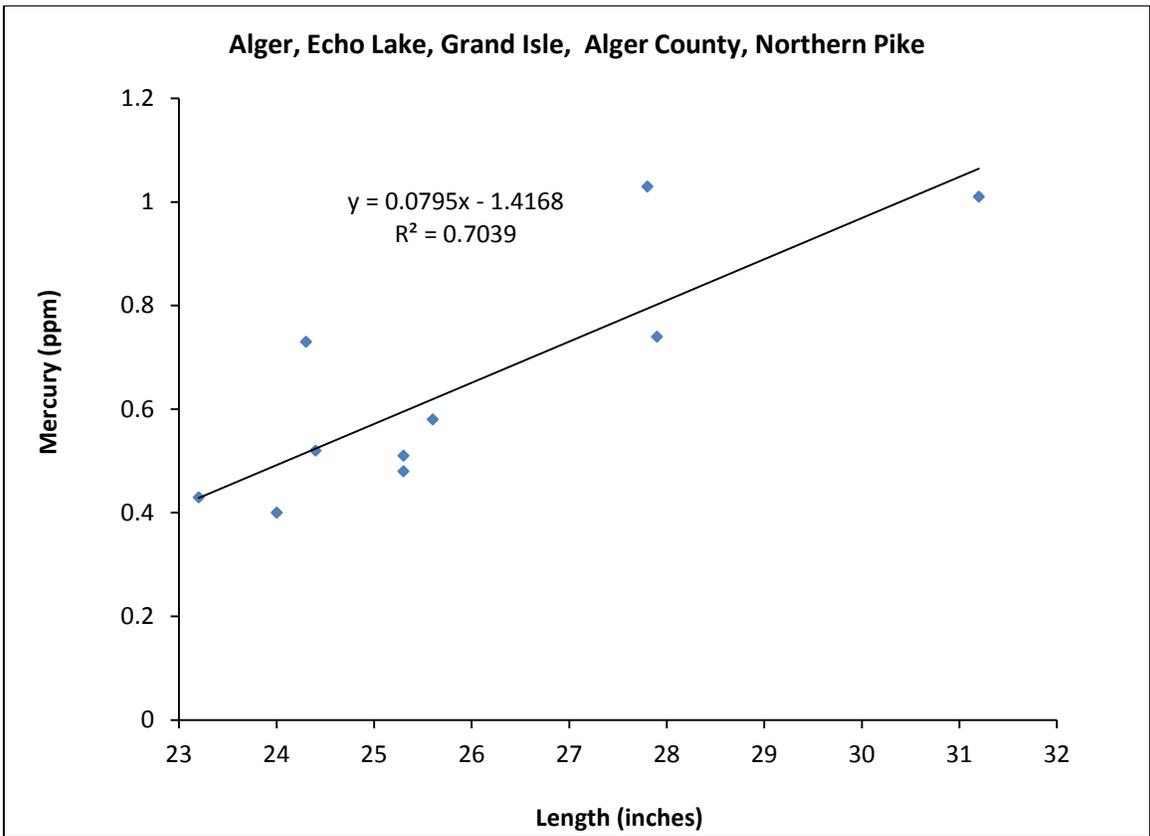
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1995	1995	10	23.2	24	23.2	31.2
Datasets available: 1995						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	ND	--	--	--	--
DDT	10	0.003	0.003	0.007	0.004	16
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	0.155	0.155				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Echo Lake northern pike are covered by the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of Echo Lake northern pike smaller than 32 inches or more than 6 meals per year of those fish larger than 32 inches due to mercury. Length break based on regression estimates.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
24	0.491	2
25	0.571	1
26	0.650	1
27	0.730	1
28	0.809	1
29	0.889	1
30	0.968	1
31	1.048	1
32	1.127	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Yellow Perch

Echo Lake

Alger County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1995	1995	9	7.1	na	7.1	11.8
Datasets available: 1995						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	9	0.26	0.08	0.53	0.37	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.704	0.611				

Organics Analysis:

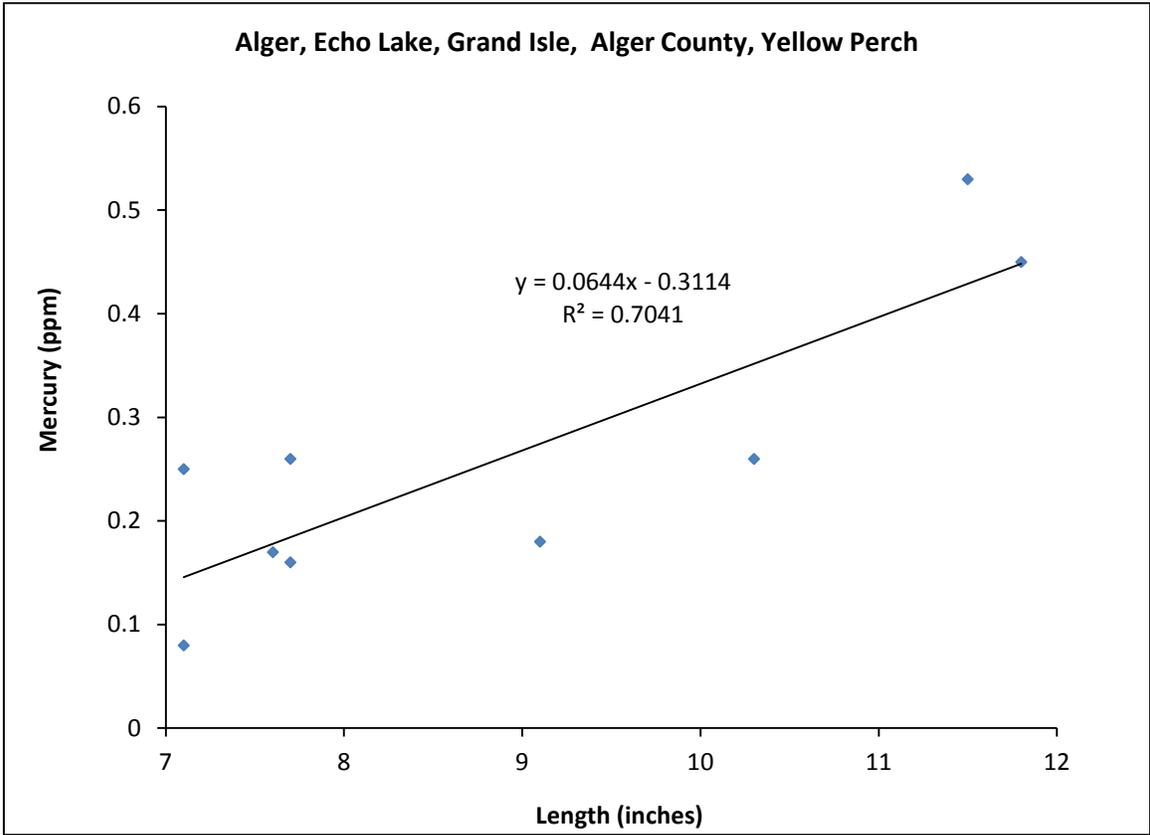
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1995	1995	9	7.1	na	7.1	11.8
Datasets available: 1995						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	9	ND	--	--	--	--
DDT	9	ND	--	--	--	--
Chlordane	9	ND	--	--	--	--
Toxaphene	9	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Echo Lake yellow perch greater than 9 inches in length are covered by the statewide mercury consumption advisory.

Recommendation: No one should eat more than 4 meals per month of Echo Lake yellow perch smaller than 9 inches or more than 2 meals per month of those fish larger than 9 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
6	0.075	12
7	0.139	4
8	0.204	4
9	0.268	4
10	0.333	2
11	0.397	2
12	0.461	2
13	0.526	2
14	0.590	1

Shaded area denotes extrapolated estimates



Lake Trout

Grand Sable Lake

Alger County

Hg Analysis:

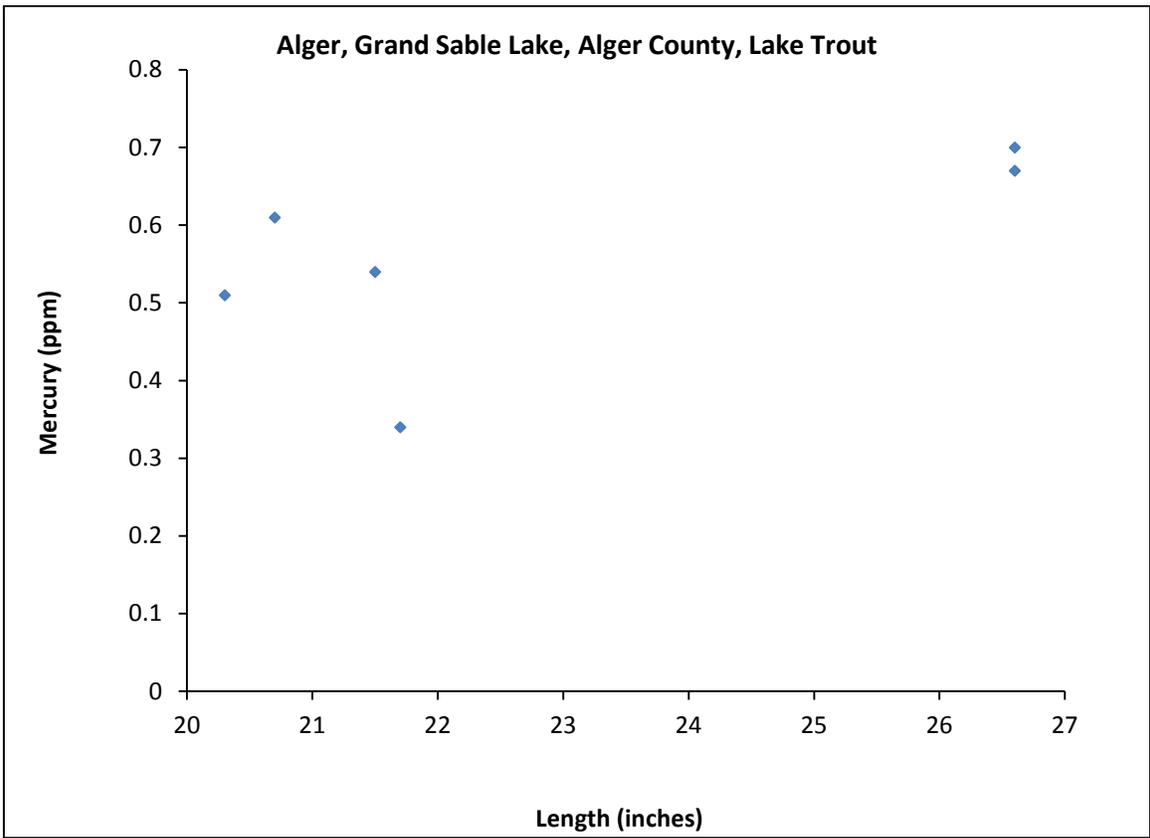
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	1987	6	20.3	15	20.3	26.6
Datasets available: 1987						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.56	0.34	0.70	0.70	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.422	0.329				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available:						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: There are no current consumption advisories for Grand Sable Lake lake trout.

Recommendation: No one should eat more than 1 meal per month of Grand Sable Lake lake trout due to mercury.



Northern Pike

Grand Sable Lake

Alger County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	1987	3	17.9	24	17.9	37.8
Datasets available: 1987						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	3	0.740	0.230	1.390	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Grand Sable Lake northern pike are covered under the statewide mercury consumption advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guidelines apply. No one should eat more than 1 meal per month of northern pike larger than 30 inches or more than 2 meals per month of northern pike smaller than 30 inches in length.

**Largemouth
& Smallmouth Bass
Hg & Se Analysis:**

Kingston Lake

Alger County

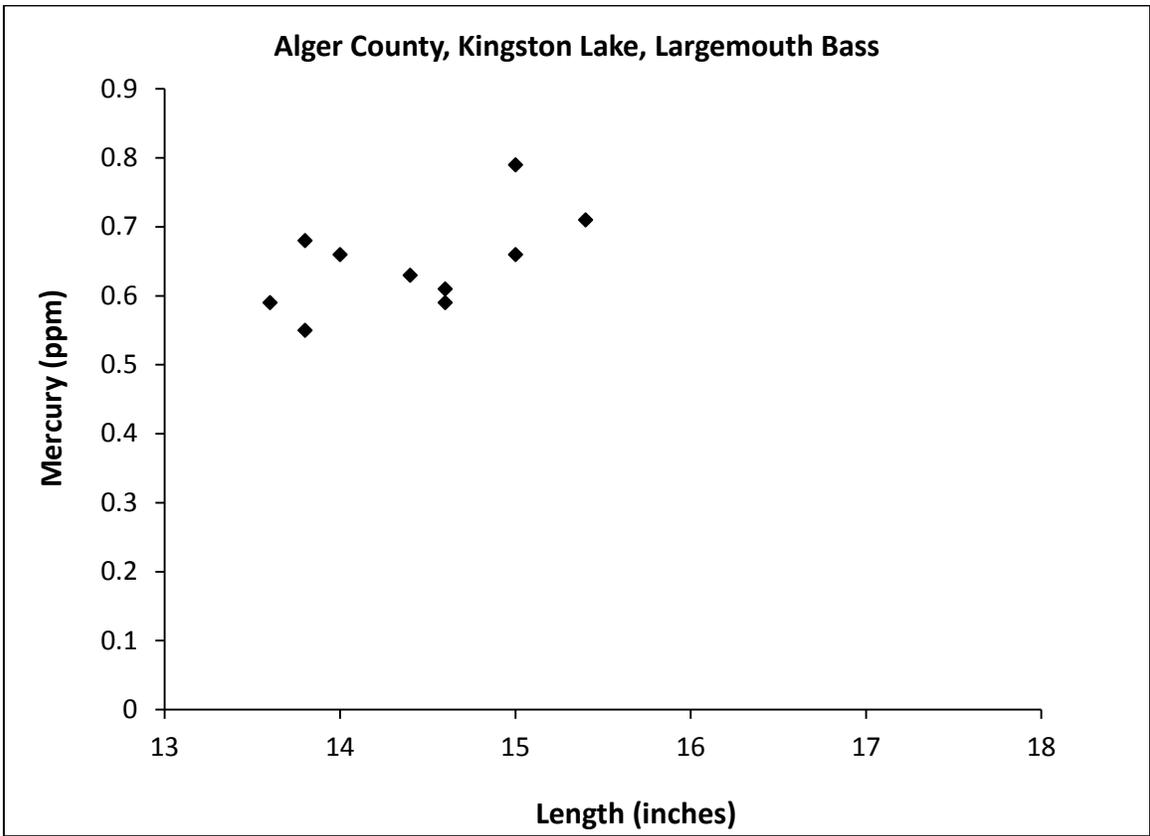
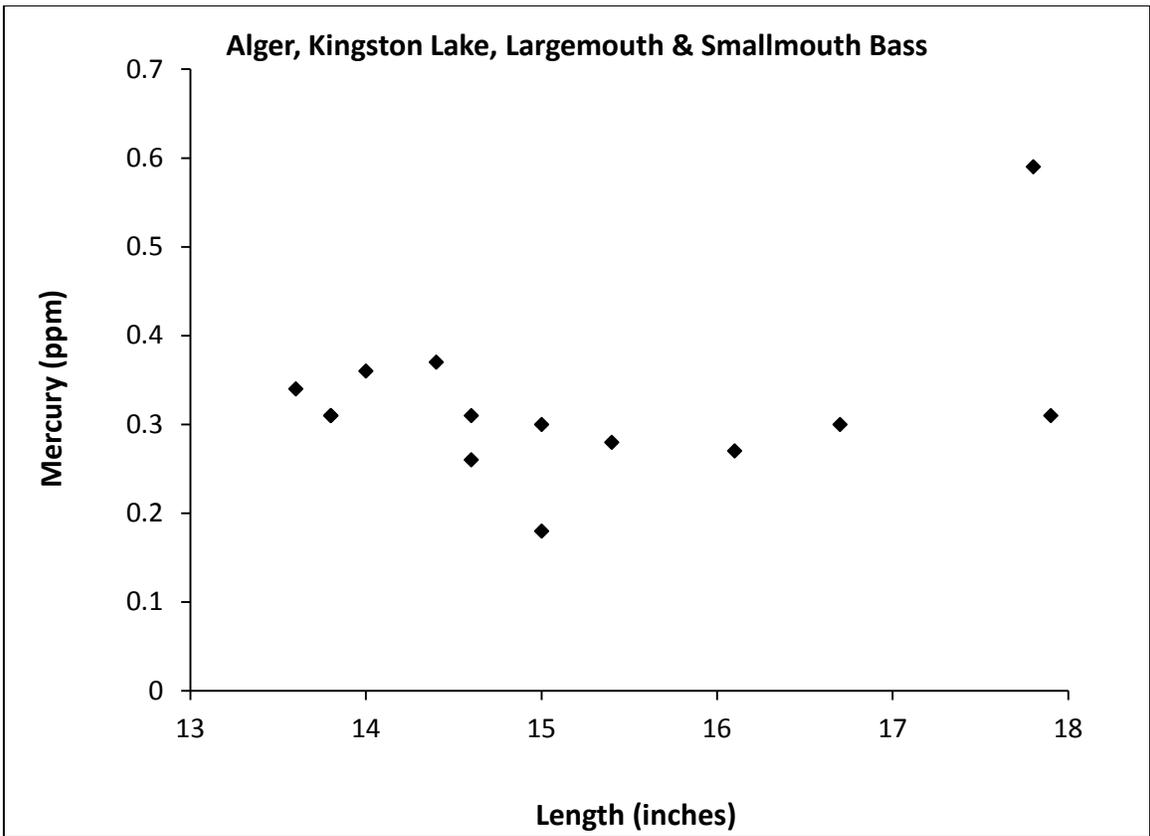
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2003	2008	12	13.6	14	13.6	17.9
Datasets available: 2003, 2008						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	14	0.32	0.18	0.59	0.37	2
Selenium	10	0.65	0.55	0.79	0.70	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.117	0.069				
Selenium	0.326	0.329				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Kingston Lake largemouth bass are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 2 meals per month of largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches. Statewide length break applied as the size of the fish was limited.



Muskellunge

Kingston Lake

Alger County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
2003	2003	2	30.7	42	30.7	30.8
Datasets available: 2003						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	2	0.30	0.15	0.45	2.21	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Kingston Lake muskellunge are covered under the statewide mercury consumption advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide advice due to mercury applies to Kingston Lake muskellunge: No one should eat more than 1 meal per month of muskellunge.

Walleye

Kingston Lake

Alger County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples				
Earliest	Most Recent				Min	Max			
2003	2003	4	17.3	15	17.3	24.6			
Datasets available:		2003							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category			
Mercury	4	0.40	0.14	0.68	0.79	--			
Chemical	Linear Regression	Exponential Regression							
	R ²	R ²							
Mercury	--	--							

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples				
Earliest	Most Recent				Min	Max			
--	--	--	--	--	--	--			
Datasets available:		--							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category			
PCB	0	na	--	--	--	--			
DDT	0	na	--	--	--	--			
Chlordane	0	na	--	--	--	--			
Toxaphene	0	na	--	--	--	--			
Chemical	Linear Regression	Exponential Regression							
	R ²	R ²							
PCB	--	--							
DDT	--	--							
Chlordane	--	--							
Toxaphene	--	--							
						Final meal category based on UCL:		--	

Existing Advisory: Kingston Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide guidelines apply: No one should eat more than 1 meal per month of walleye larger than 20 inches or more than 2 meals per month of walleye smaller than 20 inches.

Bluegill

Little Round Lake

Alger County

Hg Analysis:

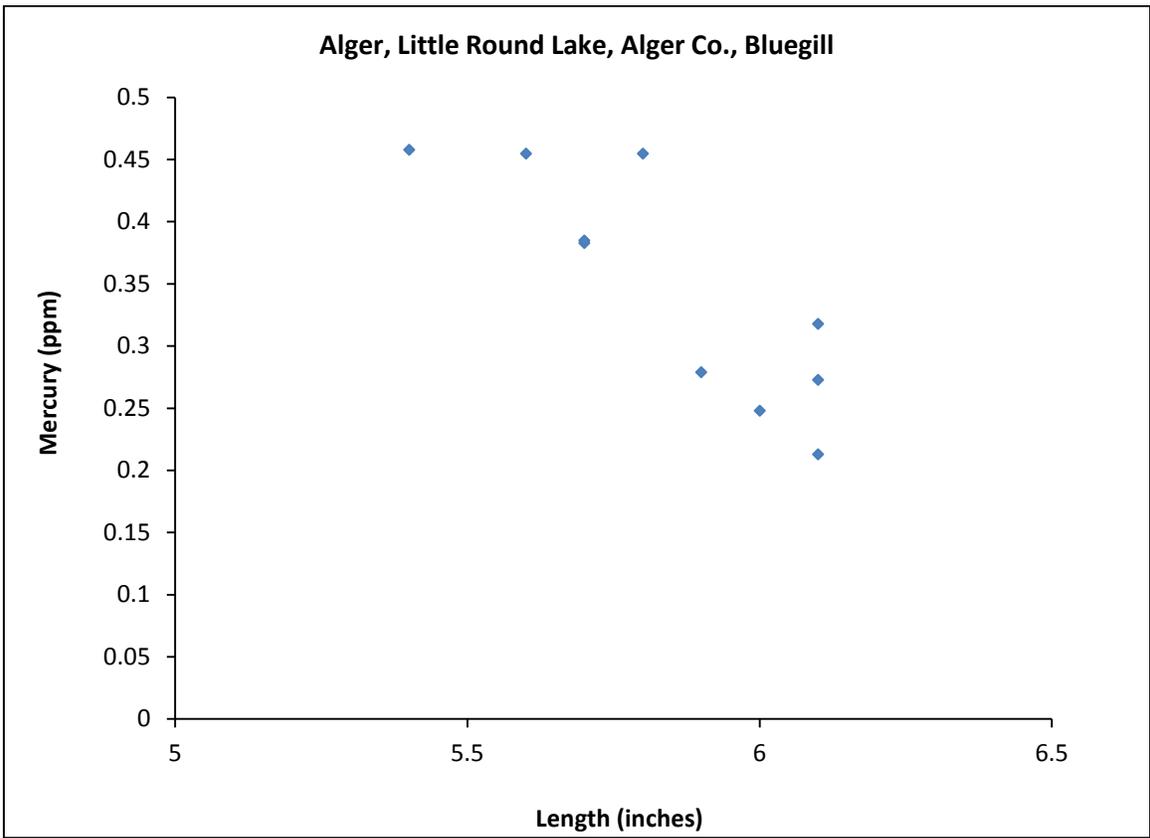
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2006	2006	10	5.4	na	5.4	6.1
Datasets available: 2006						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.35	0.21	0.46	0.41	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.724*	0.700*	*Negative regression			

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: There are no current consumption advisories for Little Round Lake bluegill.

Recommendation: No one should eat more than 2 meals per month of Little Round Lake bluegill (sunfish) due to mercury.



Northern Pike

Nawakwa Lake

Alger County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)*	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1999	1999	22	11.8	na	11.8	28
Datasets available: 1999						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	22	0.47	0.13	0.96	0.56	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.423	0.576				

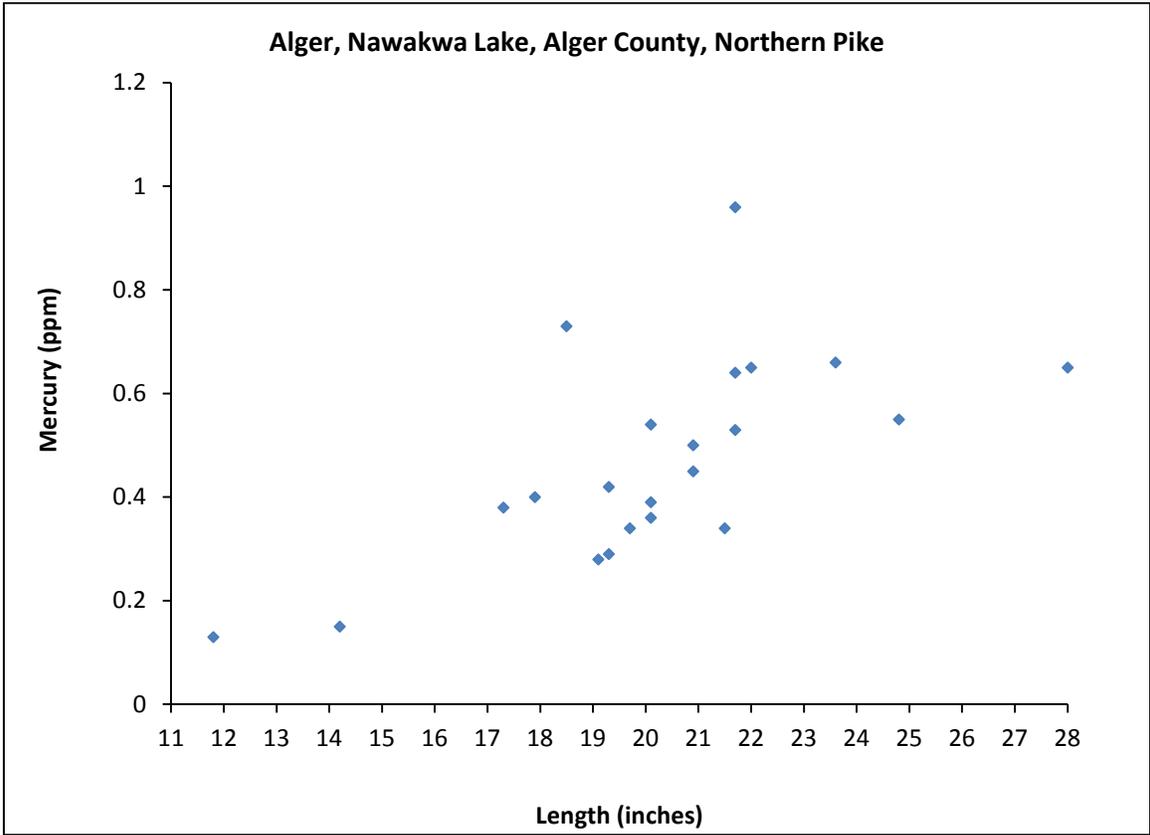
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available:						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

* - no size limit on northern pike from Nawakwa Lake

Existing Advisory: Nawakwa Lake northern pike are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of Nawakwa Lake northern pike less than 30 inches or 6 meals per year of those fish over 30 inches due to mercury. Statewide length break applied as the size of the fish was limited.



Rock Bass

Nawakwa Lake

Alger County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2008	2008	10	7.7	na	7.7	10.1
Datasets available: 2008						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.26	0.13	0.45	0.33	2
Selenium	10	0.46	0.35	0.70	0.53	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.629	0.690				
Selenium	0.000	0.007				

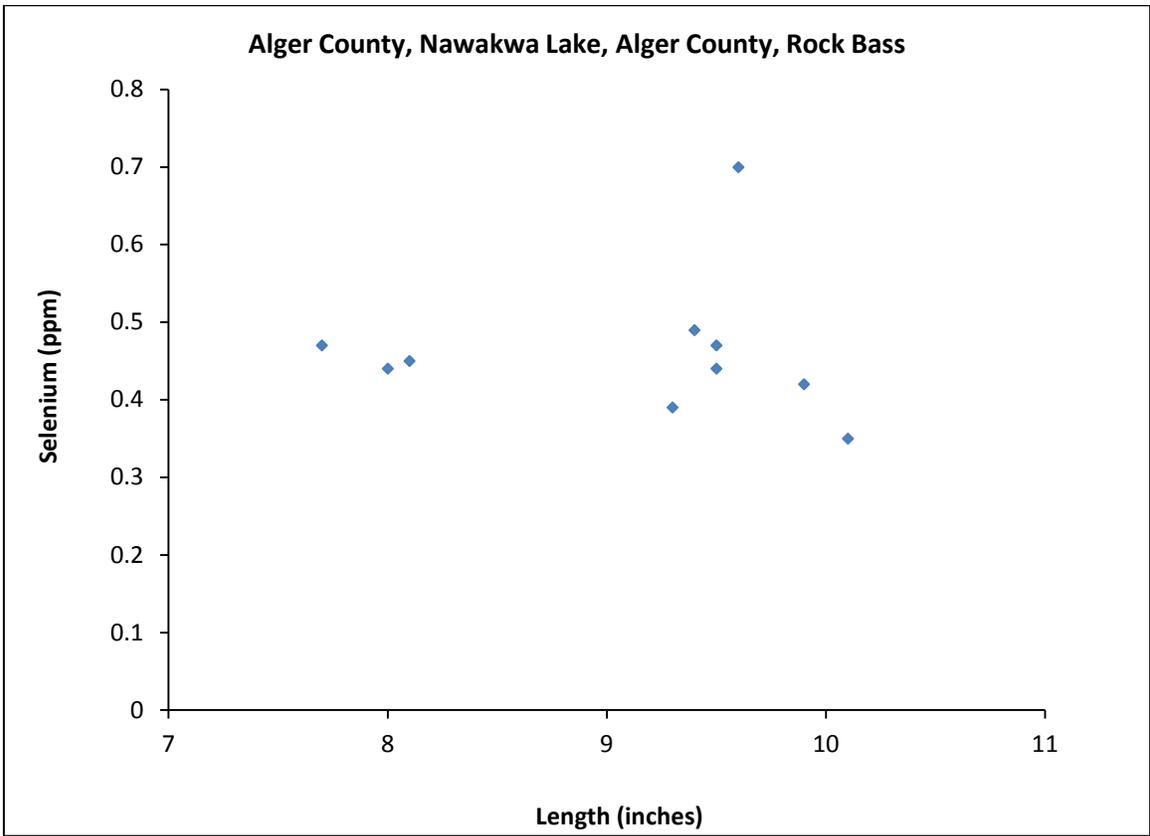
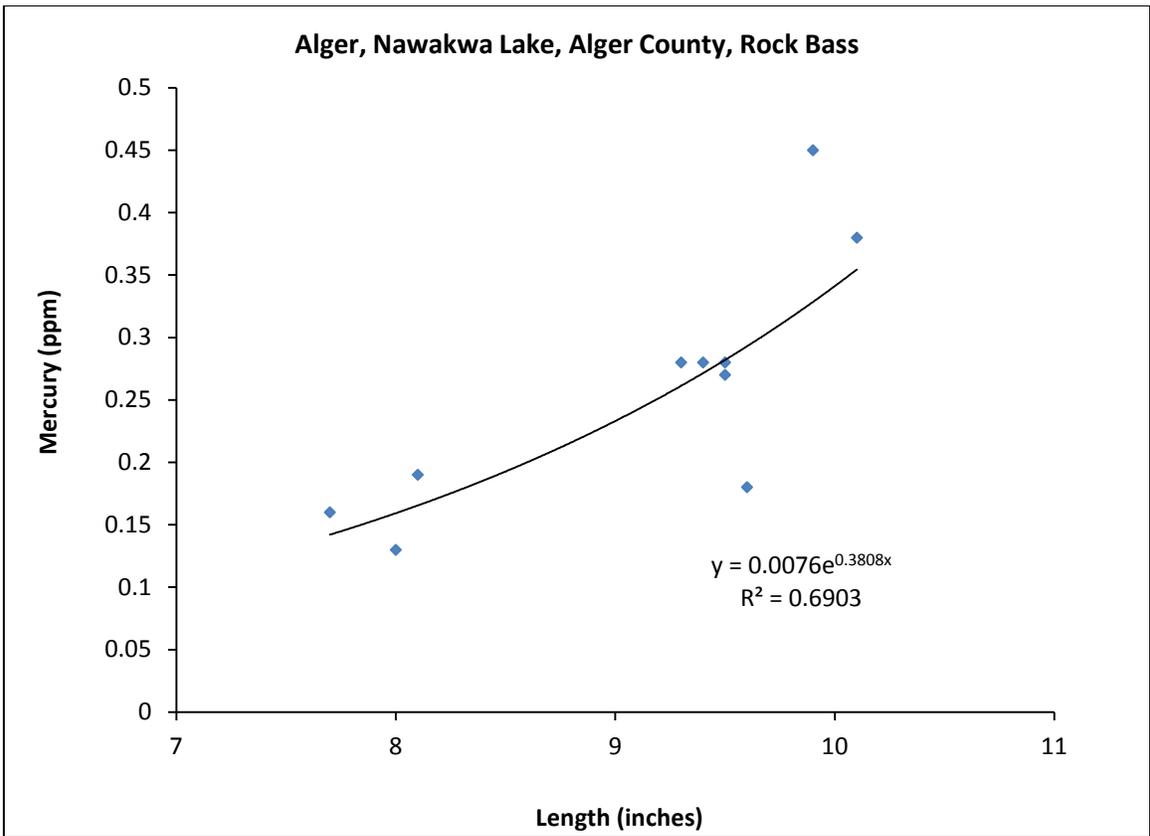
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Kingston Lake rock bass greater than 9 inches in length are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 4 meals per month of Kingston Lake rock bass smaller than 9 inches or more than 2 meals per month of those fish larger than 9 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
6	0.075	12
7	0.109	8
8	0.160	4
9	0.234	4
10	0.342	2
11	0.501	2
12	0.733	1
13	1.073	1
14	1.571	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Nawakwa Lake

Alger County

Hg Analysis:

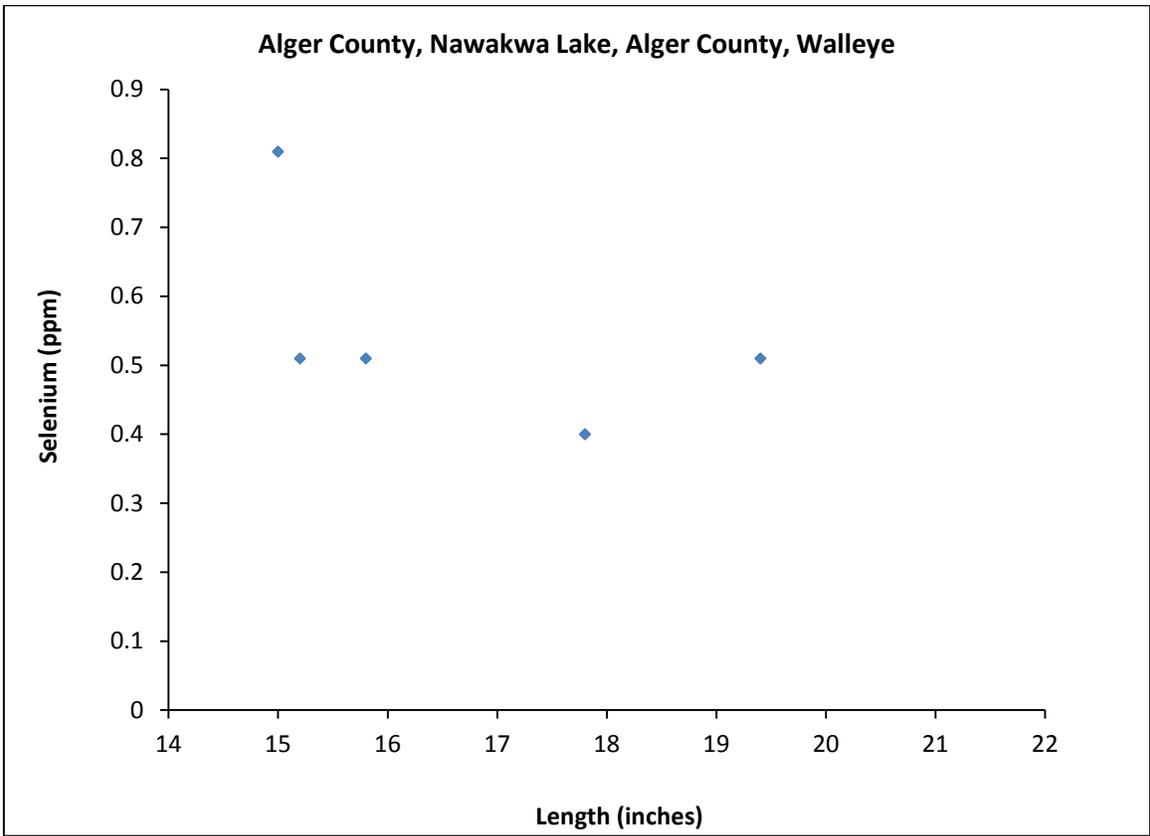
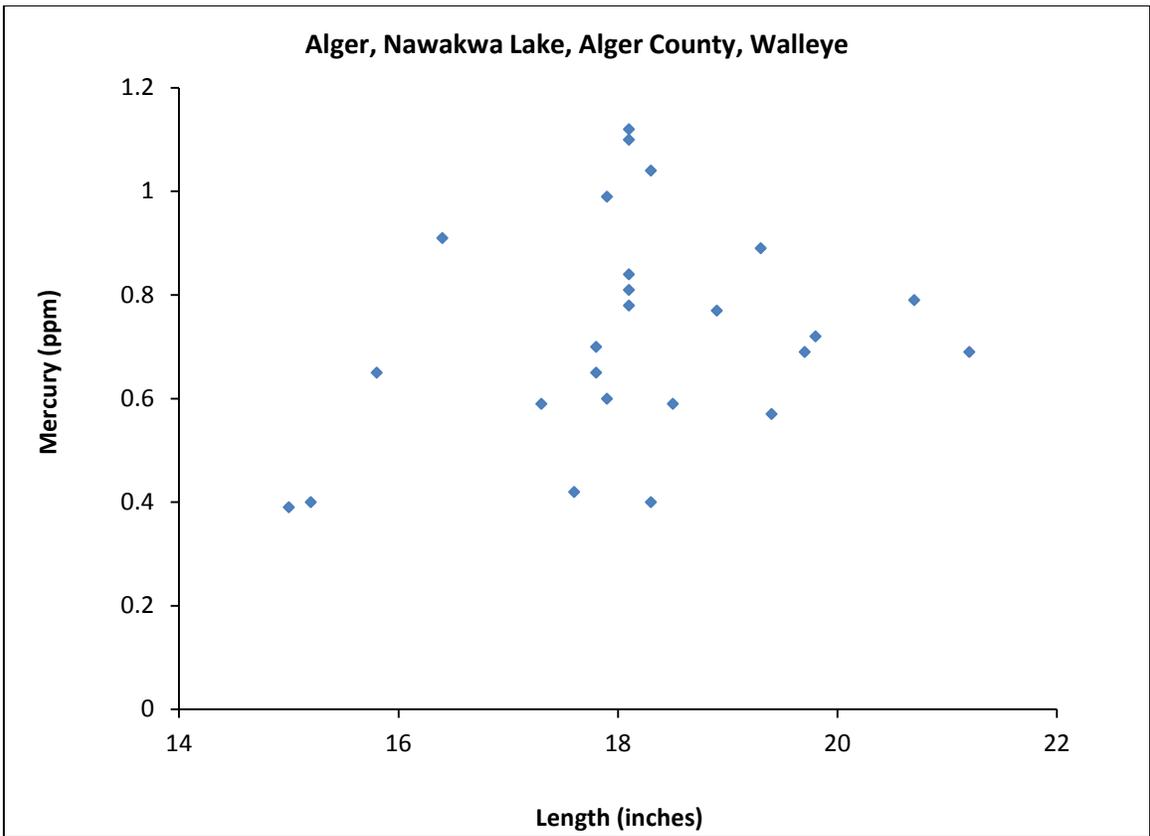
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1999	2008	25	15	15	15	21.2
Datasets available: 1999, 2008						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	25	0.72	0.39	1.12	0.81	1
Selenium	5	0.55	0.40	0.81	0.74	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.076	0.121				
Selenium	0.280	0.285				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Nawakwa Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of Nawakwa Lake walleye less than 20 inches or 6 meals per year of those fish greater than 20 inches due to mercury.



Baraga County

Largemouth Bass

**Aligan Lake
(Connected to Crooked Lake)**

Baraga County

Hg Analysis:

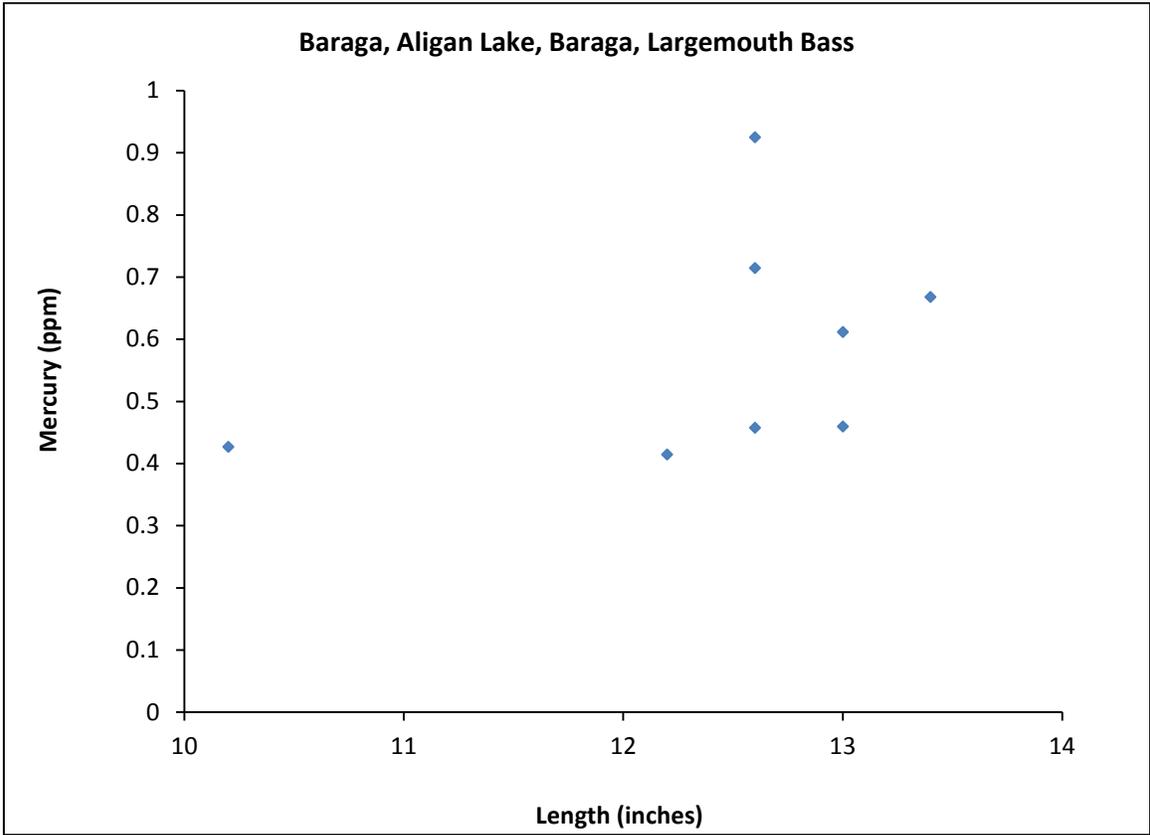
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
2005	2005	8	10.2	14	10.2	13.4
Datasets available: 2005						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	8	0.59	0.42	0.92	0.74	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.149	0.193				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Aligan Lake largemouth bass are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of Aligan Lake largemouth or smallmouth bass smaller than 18 inches or more than 6 meals per year of those fish larger than 18 inches due to mercury. Statewide length break applied. The size range of fish in this sample set is limited and comprised of sublegal size samples.



Northern Pike

**Aligan Lake
(Connected to Crooked Lake)**

Baraga County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples		Meal Category
Earliest	Most Recent				Min	Max	
2005	2005	3	26.8	24	26.8	33.5	
Datasets available: 2005							
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
Mercury	3	0.88	0.51	1.12	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury	--	--					

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples		Meal Category
Earliest	Most Recent				Min	Max	
--	--	--	--	--	--	--	
Datasets available: --							
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
PCB	0	na	--	--	--	--	
DDT	0	na	--	--	--	--	
Chlordane	0	na	--	--	--	--	
Toxaphene	0	na	--	--	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	--	--					
DDT	--	--					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							--

Existing Advisory: No one should eat Aligan Lake northern pike due to mercury.

Recommendation: No one should eat more than 1 meal per month of Aligan Lake northern pike smaller than 30 inches or more than 6 meals per year of those fish larger than 30 inches due to mercury.

Note: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The recommendation is one step more restrictive than the statewide guidance based on the mean concentration of the three samples. In addition, this lake has relatively high mercury levels in largemouth bass, which suggests a higher than typical methylmercury contamination.

Yellow Perch

**Aligan Lake
(Connected to Crooked Lake)**

Baraga County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2005	2005	3	7.9	na	7.9	10.2
Datasets available: 2005						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	3	0.362	0.188	0.468	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Legal Size Range of Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Women and children should not eat more than one meal per week of Aligan Lake yellow perch less than 8 inches or more than one meal per month of yellow perch between 8 and 10 inches and no one should eat those fish larger than 10 inches due to mercury.

Recommendation: No one should eat more than 2 meals per month of Aligan Lake yellow perch due to mercury.

Note: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The recommendation is one step more restrictive than the statewide guidance based on the mean concentration of the three samples. In addition, this lake has relatively high mercury levels in largemouth bass, which suggests a higher than typical methylmercury contamination.

Northern Pike

Beaufort Lake

Baraga County

Hg Analysis:

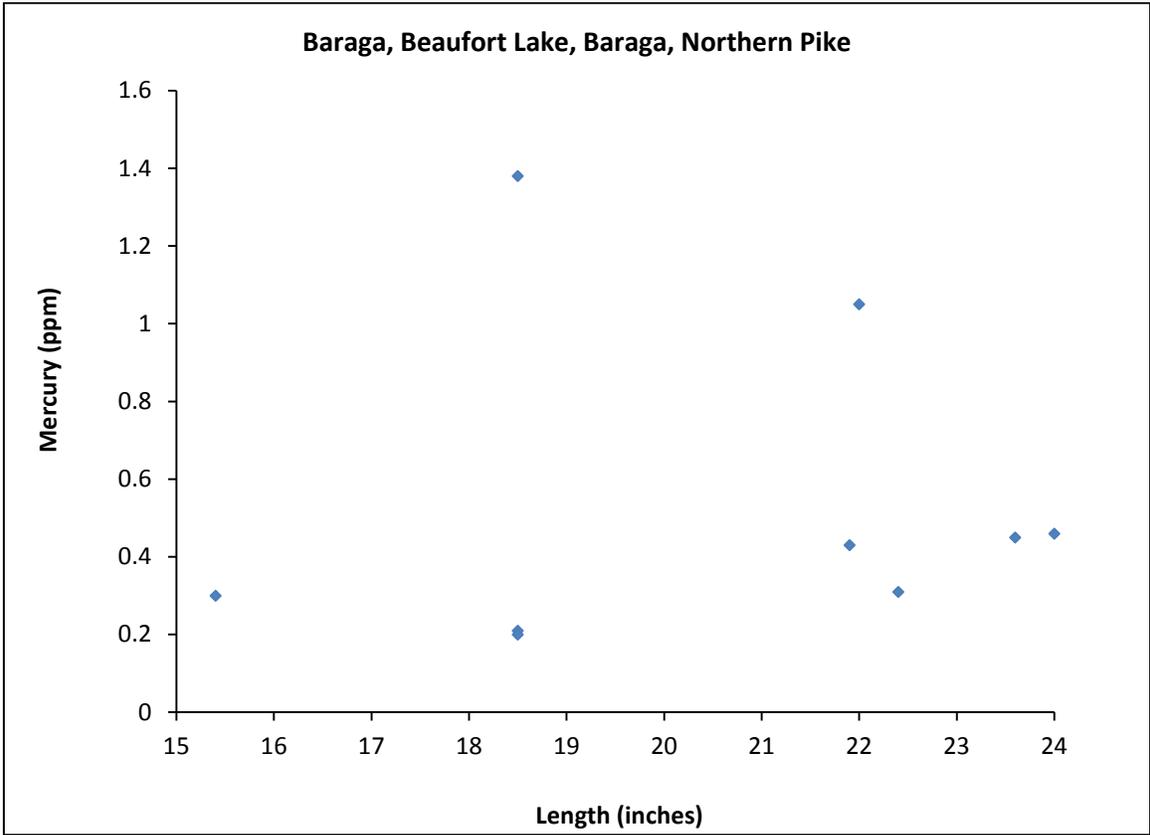
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
1987	1987	9	15.4	24	15.4	24
Datasets available: 1987						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	9	0.53	0.20	1.38	0.85	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.003	0.054				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Beaufort Lake northern pike are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of Beaufort Lake northern pike smaller than 30 inches or more than 6 meals per year of those fish larger than 30 inches due to mercury. Statewide length break was applied. Size range of fish in this sample set is limited and includes sublegal length samples.



Walleye

Beaufort Lake

Baraga County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
1987	1987	9	9.4	15	9.4	21.3
Datasets available: 1987						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	9	0.340	0.170	0.720	0.470	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.617	0.742				

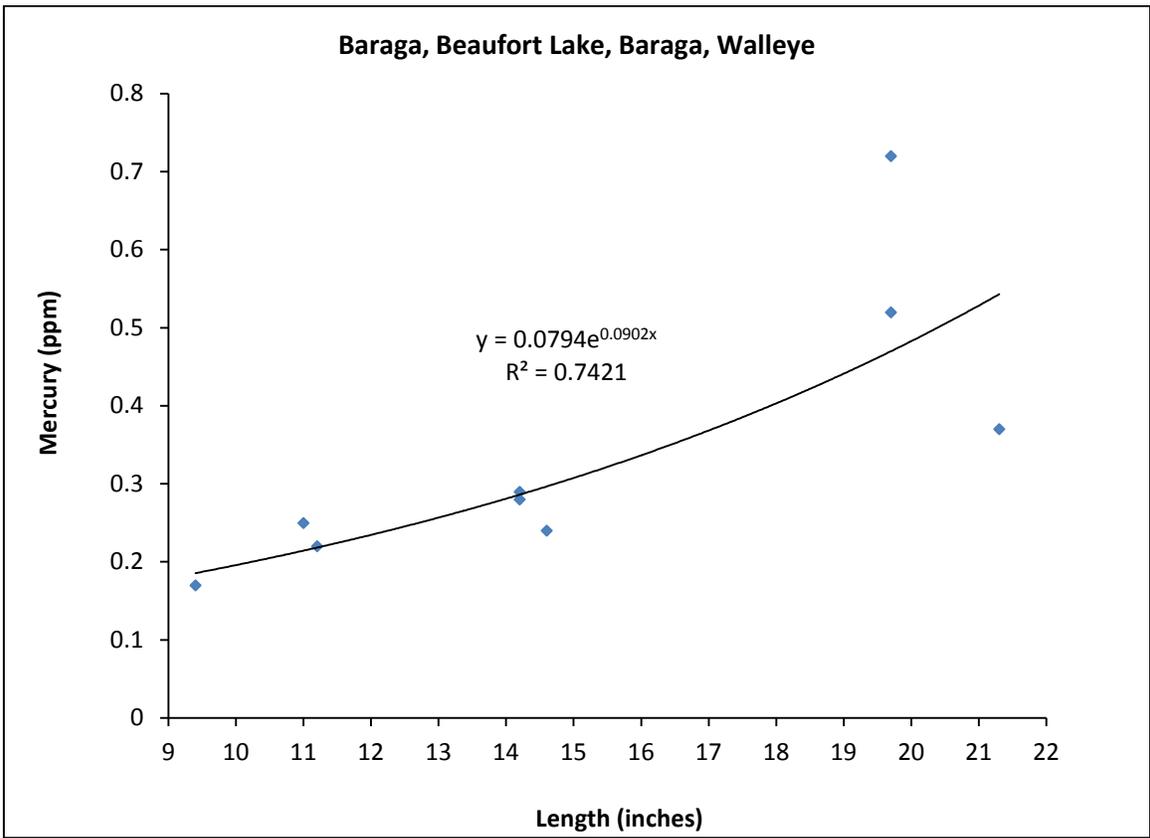
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Beaufort Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of walleye larger than 22 inches or more than 2 meals per month of walleye smaller than 22 inches due to mercury. Length break based on regression.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
14	0.28	2
15	0.31	2
18	0.40	2
19	0.44	2
20	0.48	2
21	0.53	2
22	0.58	1
<i>Shaded area denotes extrapolated estimates</i>		



Northern Pike

Craig Lake

Baraga County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
1991	2005	11	18.1	24	24	39
Datasets available: 1991, 2005						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	9	1.44	0.84	3.52	2.10	0.5
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.602	0.756				

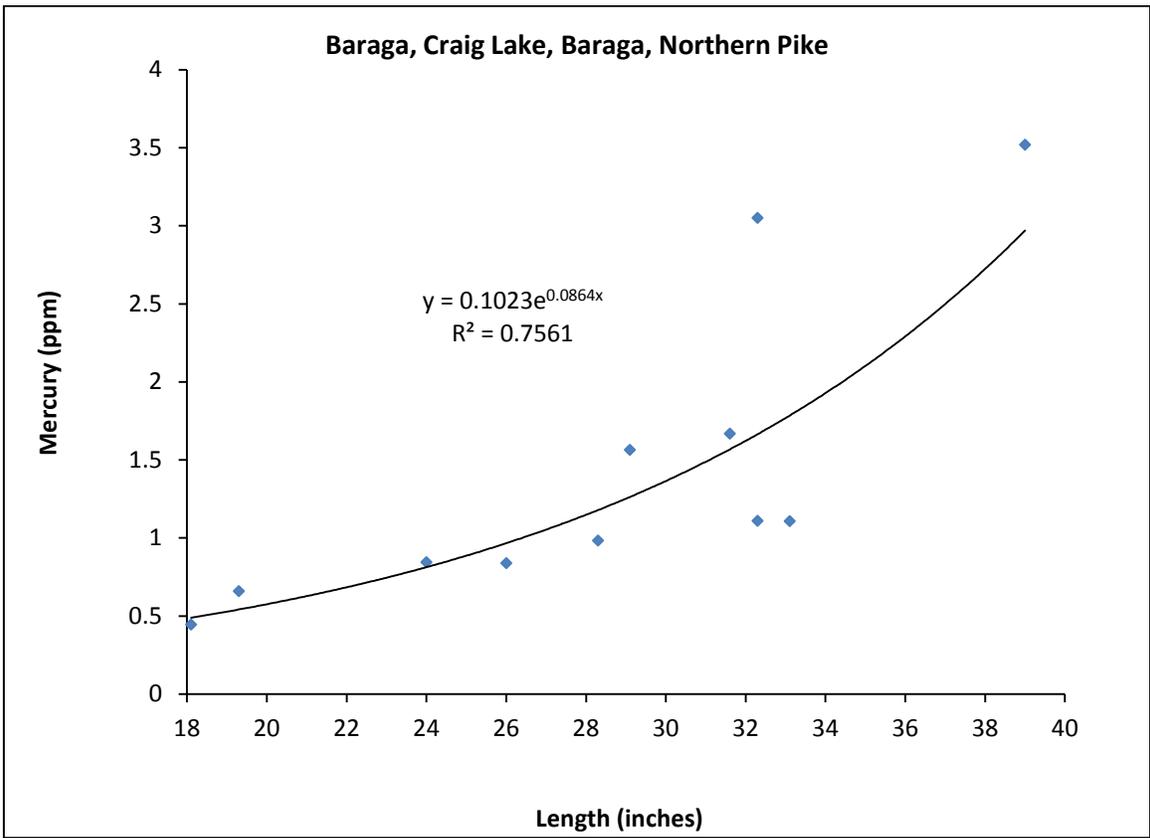
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
1991	1991	4	19.3	24	18.1	32.3
Datasets available: 1991						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	4	ND	--	--	--	--
DDT	4	ND	--	--	--	--
Chlordane	4	ND	--	--	--	--
Toxaphene	4	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						0.5

Existing Advisory: Women and children should eat no more than one meal per month of Craig Lake northern pike between smaller than 30 inches and no one should eat those fish larger than 30 inches due to mercury.

Recommendation: No one should eat more than 6 meals per year of Craig Lake northern pike smaller than 34 inches and no one should eat any of those fish larger than 34 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
24	0.81	1
26	0.97	1
28	1.15	0.5
30	1.37	0.5
32	1.62	0.5
34	1.93	0.5
36	2.29	0
38	2.73	0
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Craig Lake

Baraga County

Hg Analysis:

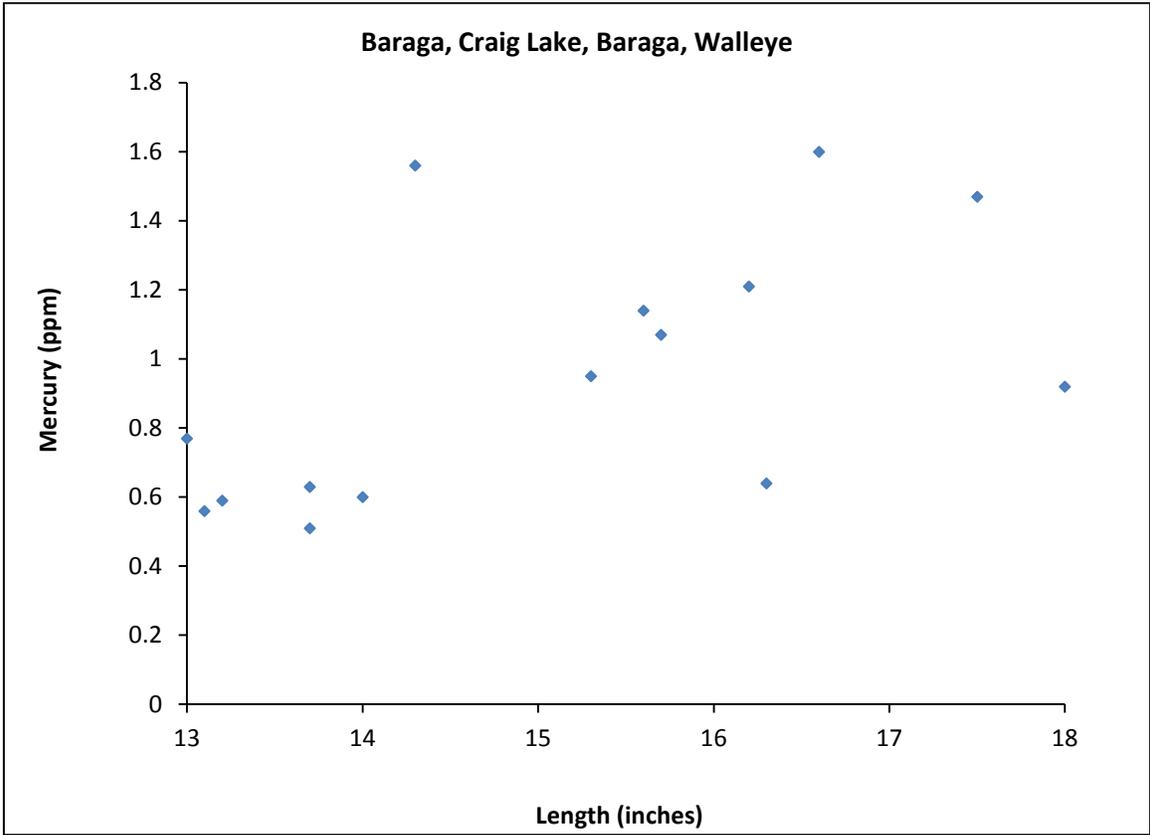
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1991	15	13	15	15.3	18
Datasets available: 1989, 1991						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	8	1.12	0.64	1.47	1.38	0.5
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.334	0.383				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1991	15	13	15	15.3	18
Datasets available: 1989, 1991						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	8	ND	--	--	--	--
DDT	8	ND	--	--	--	--
Chlordane	8	ND	--	--	--	--
Toxaphene	8	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						0.5

Existing Advisory: Craig Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 6 meals per year of Craig Lake walleye less than 20 inches or any of those fish greater than 20 inches due to mercury. Statewide length break applied.



Largemouth Bass

Crooked Lake

Baraga County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
2006	2006	4	13	14	13	13.7
Datasets available: 2006						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	4	0.433	0.270	0.490	--	--
Selenium	4	0.333	0.300	0.380	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				
Selenium	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Crooked Lake largemouth bass are covered under the statewide mercury consumption advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guidelines apply: No one should eat more than 2 meals per month of largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches.

Largemouth Bass

King Lake

Baraga County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2005	2005	8	12.9	14	13.5	15.2
Datasets available: 2005						
Chemical	Sample Size (Legal)	Mean	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.56	0.52	0.71	0.64	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.741	0.728				

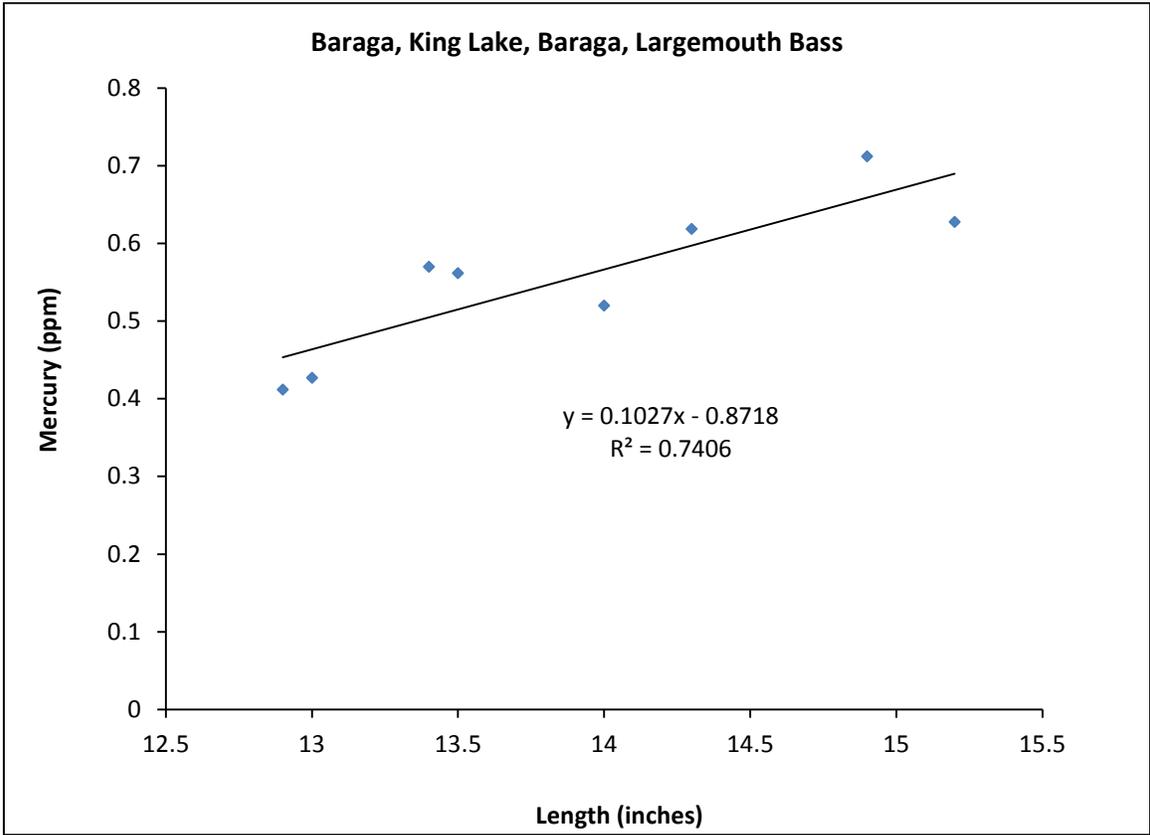
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: King Lake largemouth bass are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of King Lake largemouth or smallmouth bass smaller than 18 inches or more than 6 meals per year of those fish larger than 18 inches due to mercury. Statewide length break applied.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
14	0.566	1
15	0.669	1
16	0.771	1
17	0.874	1
18	0.977	1
19	1.080	1
20	1.182	0.5
21	1.285	0.5
22	1.388	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Northern Pike

Vermilac Lake

Baraga County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
1988	1988	5	19.7	na*	19.7	22.6
Datasets available: 1988						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.394	0.330	0.450	0.460	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.169	0.174				

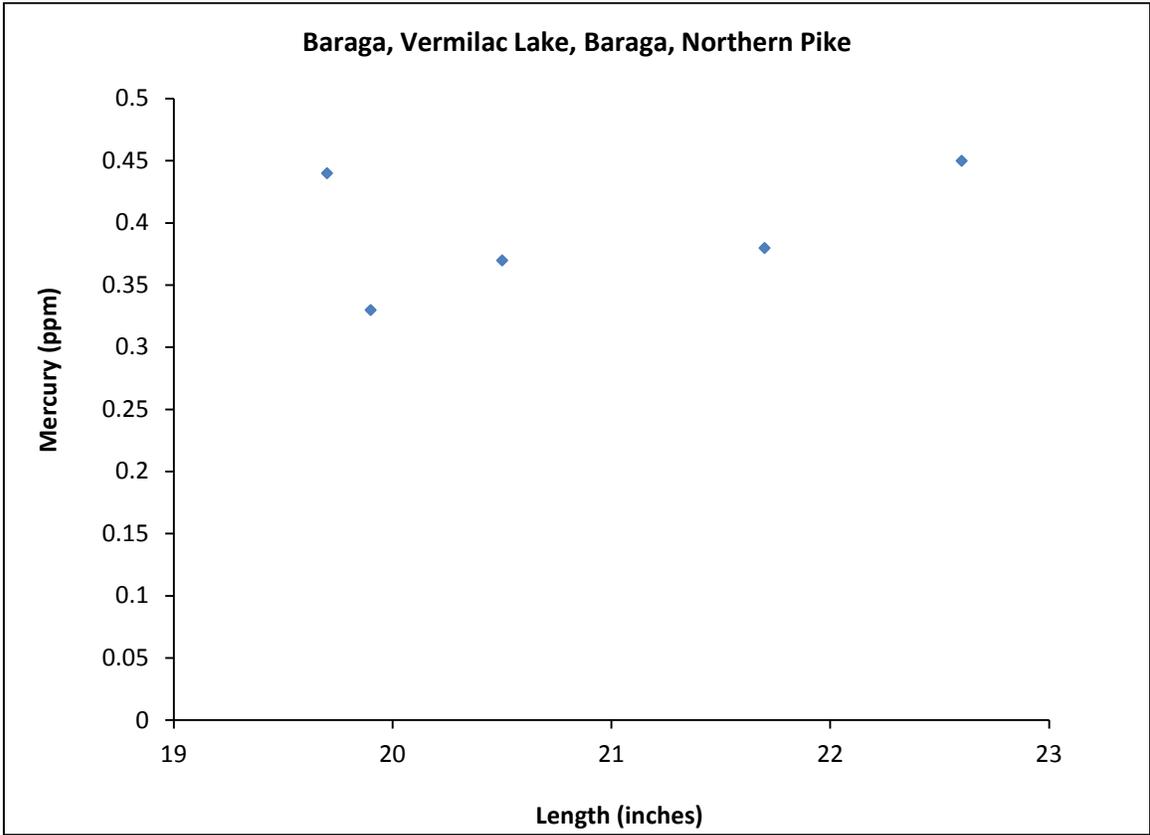
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available:						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

* - no minimum size limit on northern pike from this lake

Existing Advisory: Vermilac Lake northern pike are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of northern pike larger than 30 inches or more than 2 meals per month of northern pike smaller than 30 inches in length due to mercury. Statewide length break was applied. Size range of fish is limited.



Walleye

Vermilac Lake

Baraga County

Hg Analysis:

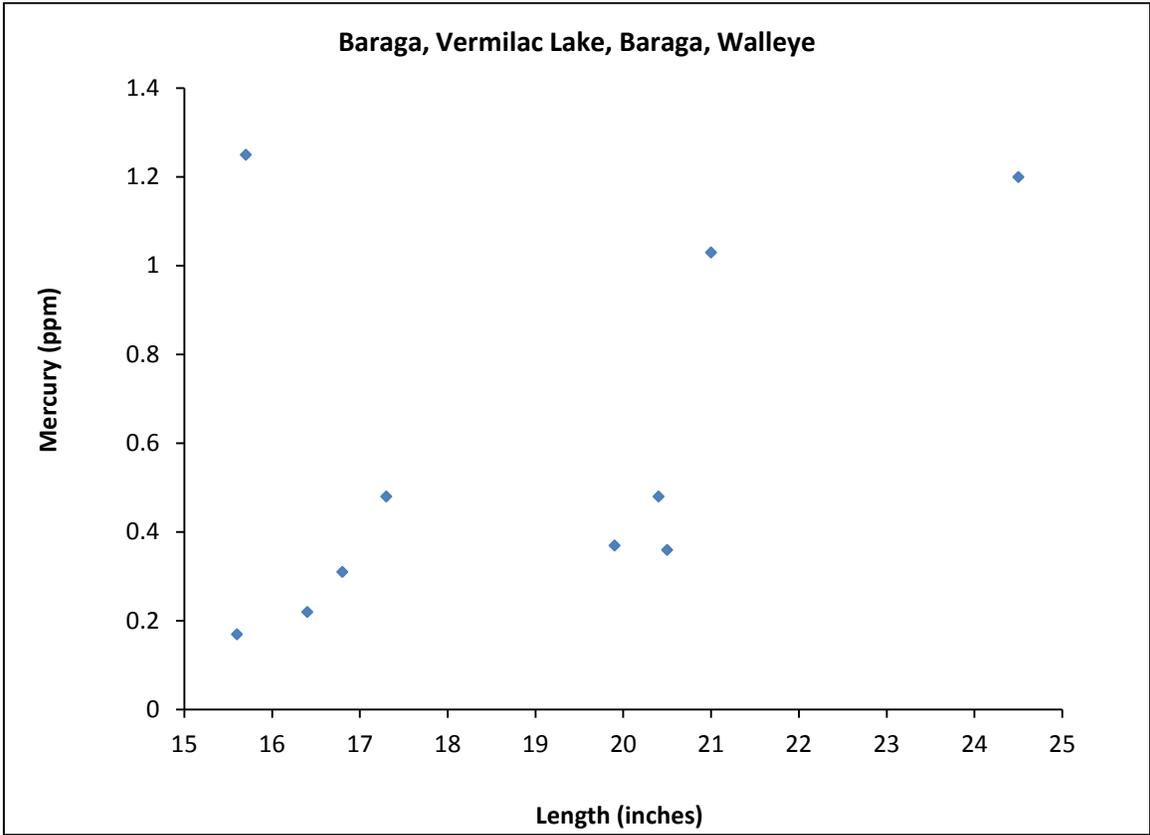
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
2001	2001	10	15.6	15	15.6	24.5
Datasets available: 2001						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.59	0.17	1.25	0.88	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.180	0.257				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Vermilac Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of Vermilac Lake walleye due to mercury.



Yellow Perch

Vermilac Lake

Baraga County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	5	7.5	na	7.5	9.6
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.40	0.32	0.46	0.47	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.650	0.662				

Organics Analysis:

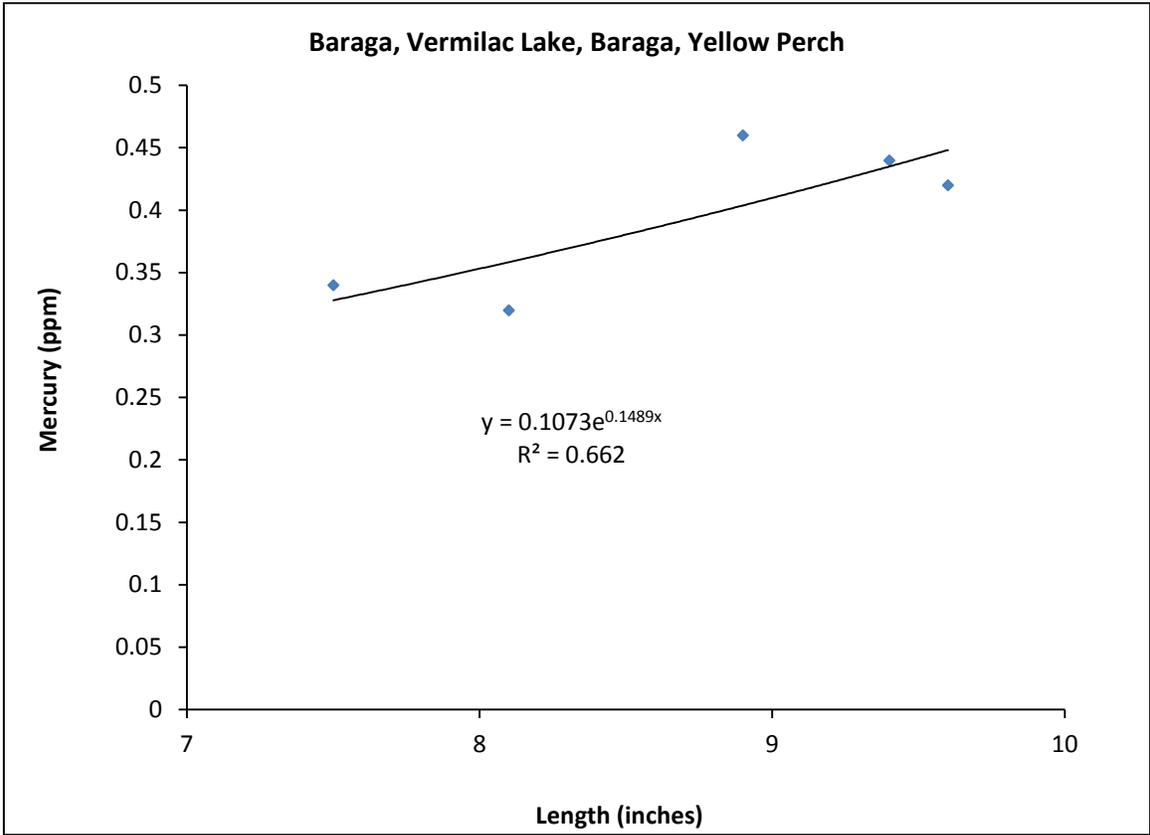
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Legal Size Range of Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Vermilac Lake yellow perch greater than 9 inches in length are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 2 meals per month of Vermilac Lake yellow perch smaller than 10 inches or more than 1 meal per month of those fish larger than 10 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
5	0.226	4
6	0.262	4
7	0.304	2
8	0.353	2
9	0.410	2
10	0.476	2
11	0.552	1
12	0.641	1
13	0.743	1

Shaded area denotes extrapolated estimates



Chippewa County

Smallmouth Bass

Caribou Lake

Chippewa County

Hg Analysis:

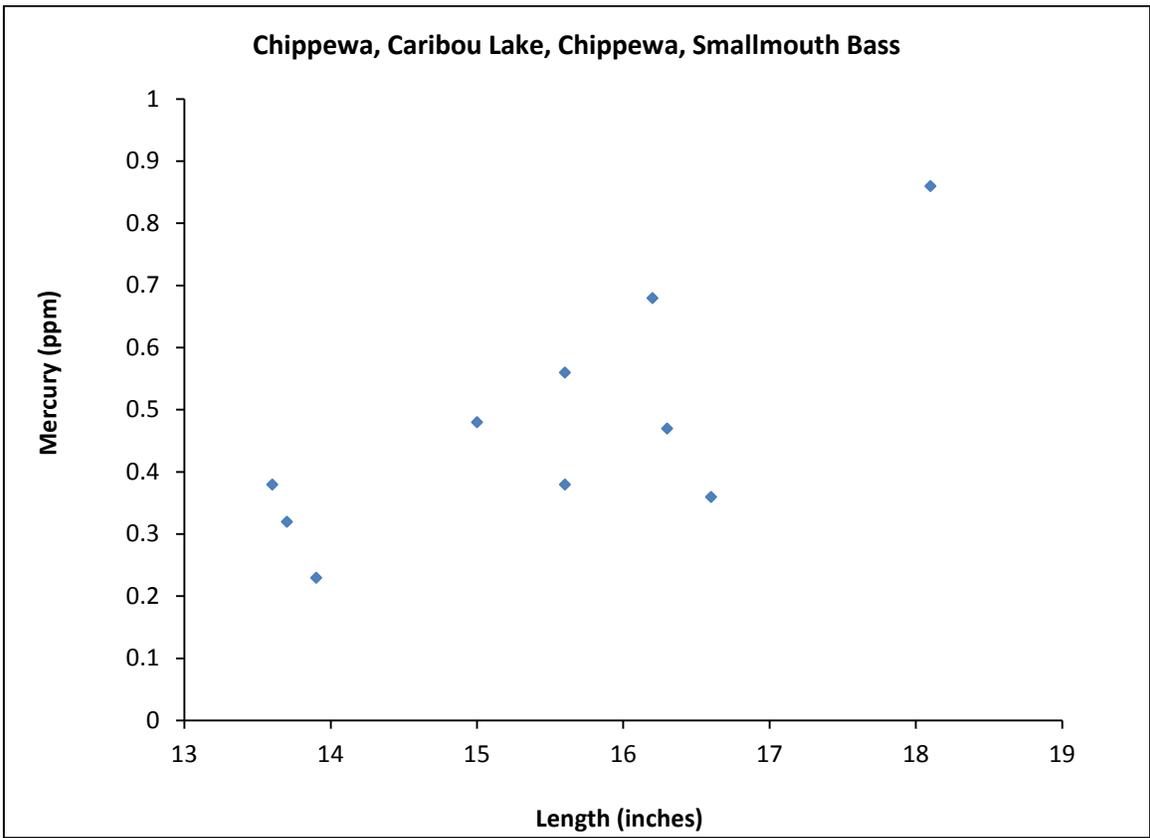
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
2006	2006	10	13.6	14	13.6	18.1	
Datasets available: 2006							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category	
Mercury	10	0.47	0.23	0.86	0.61	1	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury	0.590	0.566					

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
--	--	--	--	--	--	--	
Datasets available: --							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category	
PCB	0	--	--	--	--	--	
DDT	0	--	--	--	--	--	
Chlordane	0	--	--	--	--	--	
Toxaphene	0	--	--	--	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	--	--					
DDT	--	--					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							1

Existing Advisory: Caribou Lake smallmouth bass are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of largemouth or smallmouth bass from Caribou Lake smaller than 18 inches or more than 6 meals per year of those fish larger than 18 inches due to mercury. The statewide length break was applied.



Rock Bass

Caribou Lake

Chippewa County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	2006	15	6.9	na	6.9	11.4
Datasets available: 1986, 2006						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category
Mercury	15	0.38	0.27	0.60	0.44	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.842	0.830				

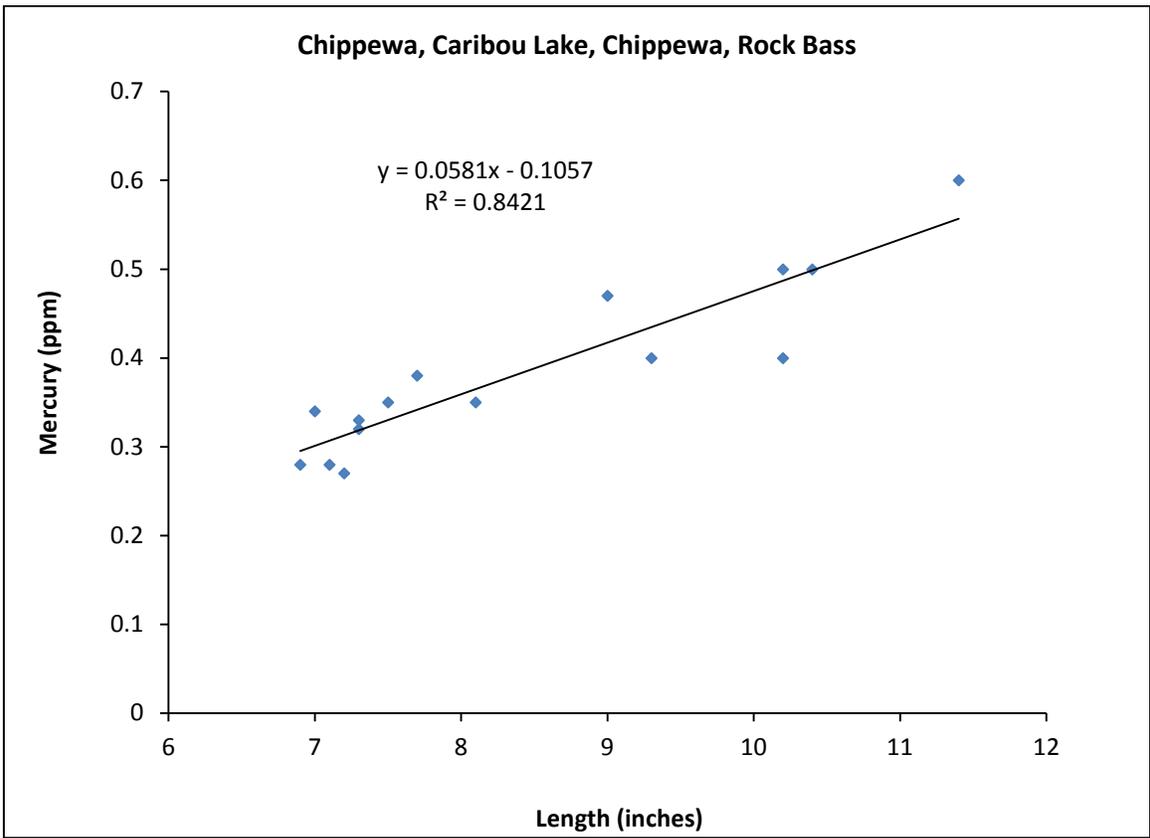
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Caribou Lake rock bass are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 2 meals per month of Caribou Lake rock bass smaller than 10 inches or more than 1 meal per month of those fish larger than 10 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
6	0.243	4
7	0.301	2
8	0.359	2
9	0.417	2
10	0.475	2
11	0.533	1
12	0.592	1
13	0.650	1
14	0.708	1
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Caribou Lake

Chippewa County

Hg Analysis:

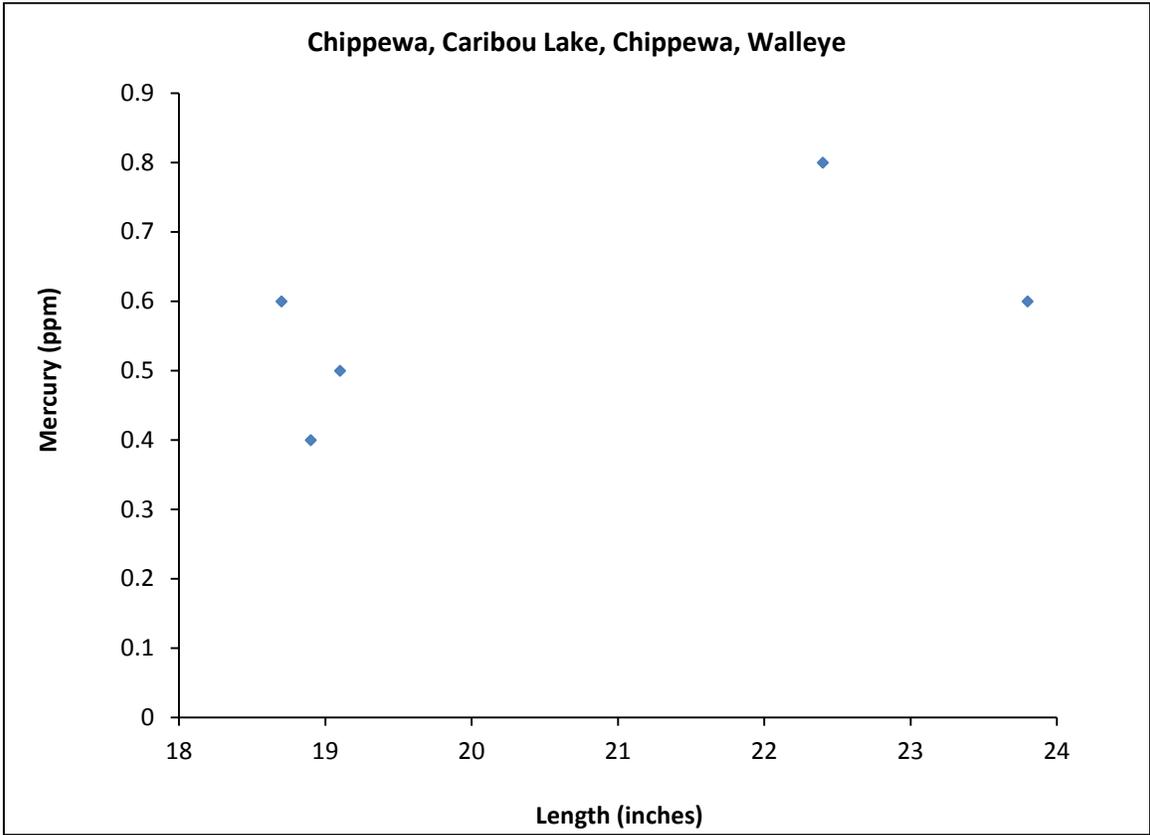
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
1986	1986	5	18.7	15	18.7	23.8		
Datasets available:		1986						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category		
Mercury	5	0.58	0.40	0.80	0.76	1		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	0.368	0.373						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	--	--	--	--	--		
Datasets available:		--						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category		
PCB	0	--	--	--	--	--		
DDT	0	--	--	--	--	--		
Chlordane	0	--	--	--	--	--		
Toxaphene	0	--	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
						Final meal category based on UCL:	1	

Existing Advisory: Caribou Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of Caribou Lake walleye due to mercury.



Northern Pike

Carp Lake

Chippewa County

Hg Analysis:

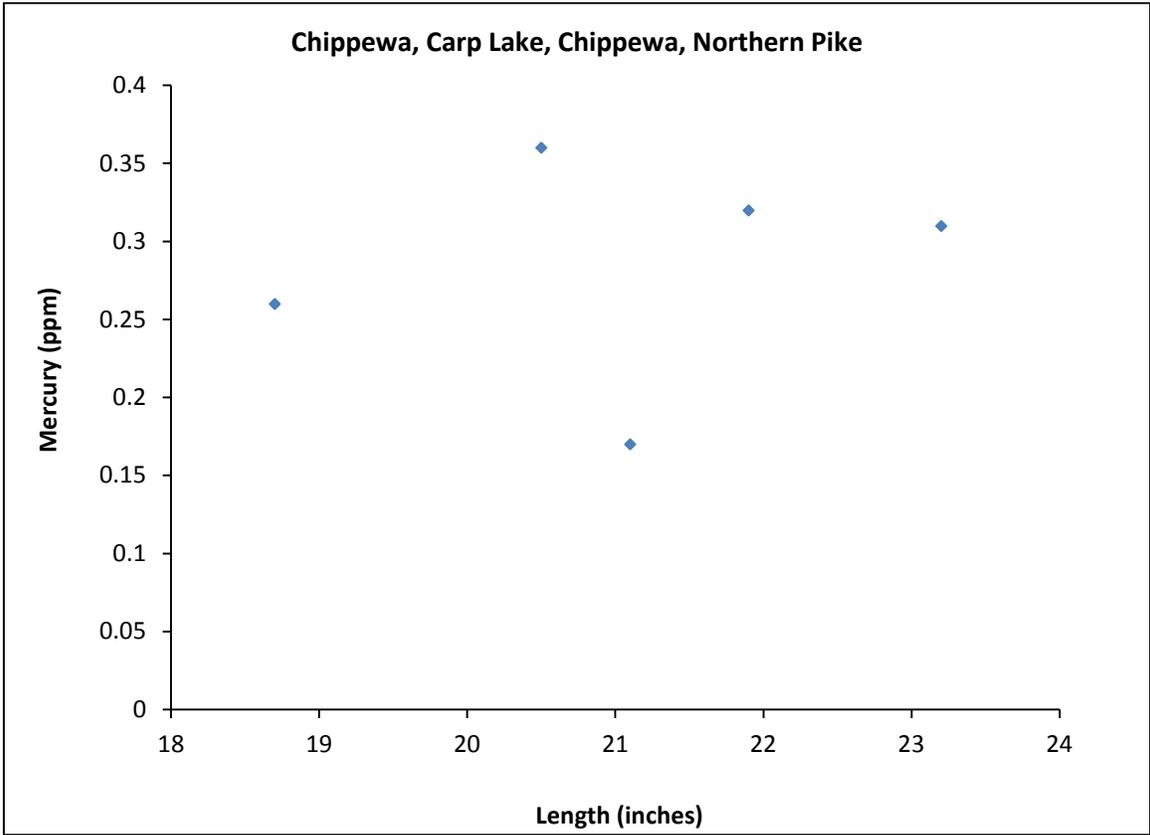
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
1987	1987	5	18.7	24	18.7	23.8
Datasets available: 1987						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category
Mercury	5	0.28	0.17	0.36	0.37	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.038	0.031				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Carp Lake northern pike are covered under the statewide mercury consumption advisory.

Recommendation: Statewide guideline applies. No one should eat more than 1 meal per month of northern pike larger than 30 inches or more than 2 meals per month of northern pike smaller than 30 inches in length due to mercury. The size range of fish in this sample set is limited and includes only sublegal lengths. The dataset is not sufficient to be used to set the guideline. The available mercury data is not atypical, thus the statewide guideline was applied.



Walleye

Carp Lake

Chippewa County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	1987	9	12.4	15	16.1	18.3
Datasets available: 1987						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category
Mercury	6	0.47	0.31	0.62	0.60	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.597	0.667				

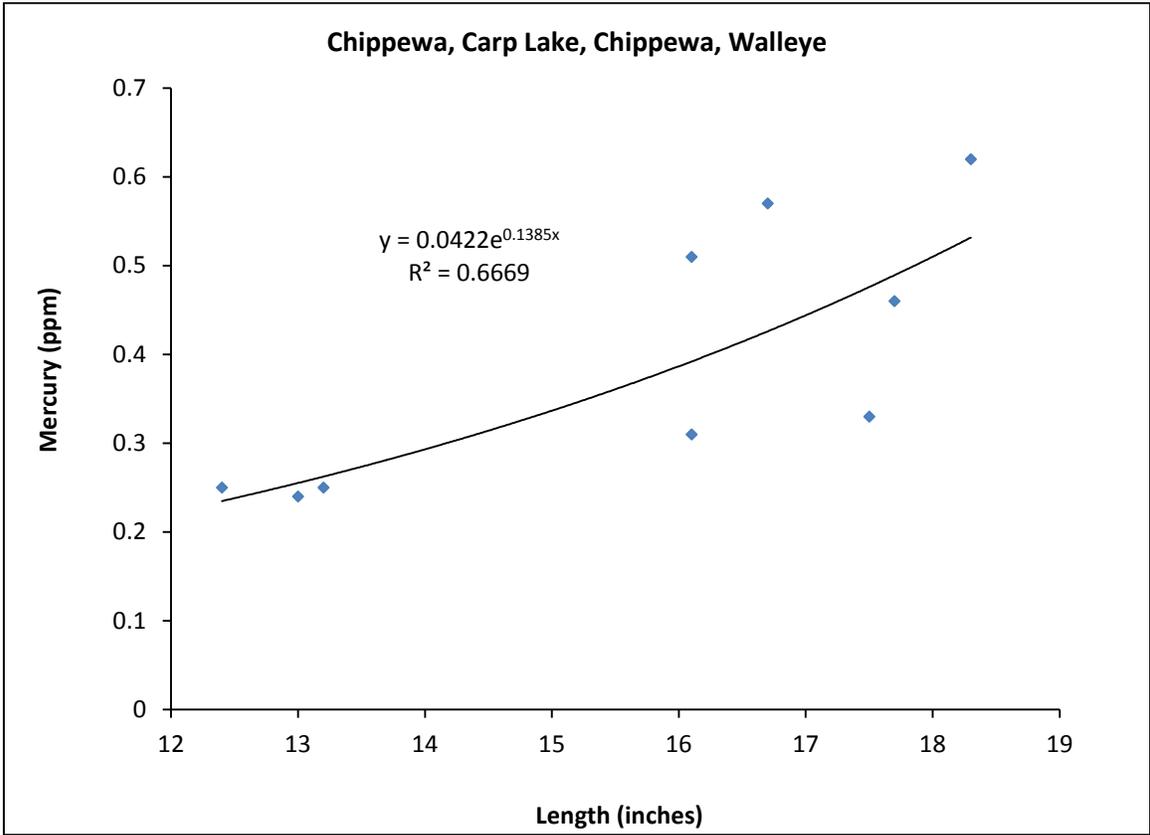
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Carp Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 2 meals per month of Carp Lake walleye smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches due to mercury. Length break based on the regression.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
15	0.34	2
16	0.39	2
17	0.44	2
18	0.51	2
19	0.59	1
20	0.67	1
21	0.77	1
22	0.89	1
23	1.02	1
<i>Shaded area denotes extrapolated estimates</i>		



Northern Pike

Frenchman Lake

Chippewa County

Hg Analysis:

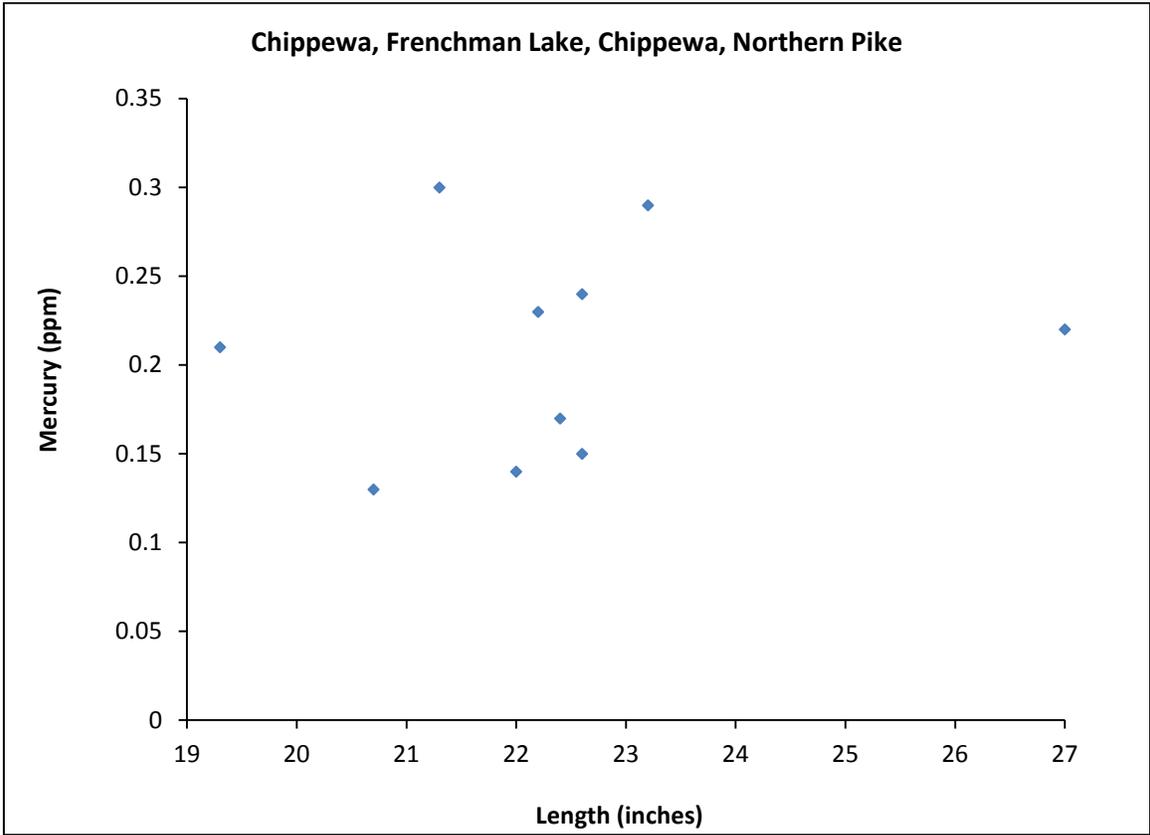
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2004	2004	10	19.3	na*	19.3	27
Datasets available: 2004						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category
Mercury	10	0.21	0.13	0.30	0.25	4
Chemical	Linear Regression	Exponential Regression	*There is no size limit for northern pike on Frenchman Lake (Chippewa).			
	R ²	R ²				
Mercury	0.023	0.033				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Frenchman Lake northern pike are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 2 meal per month of northern pike larger than 30 inches or more than 4 meals per month of northern pike smaller than 30 inches in length due to mercury. Statewide length break applied as the size of the fish was limited.



Walleye

Monocle Lake

Chippewa County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2009	2009	7	11.8	15	15.6	18.7
Datasets available: 2009						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category
Mercury	5	0.37	0.13	0.58	0.57	1
Selenium	5	1.64	1.50	1.70	1.75	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.661	0.648				
Selenium	0.715	0.725				

Organics Analysis:

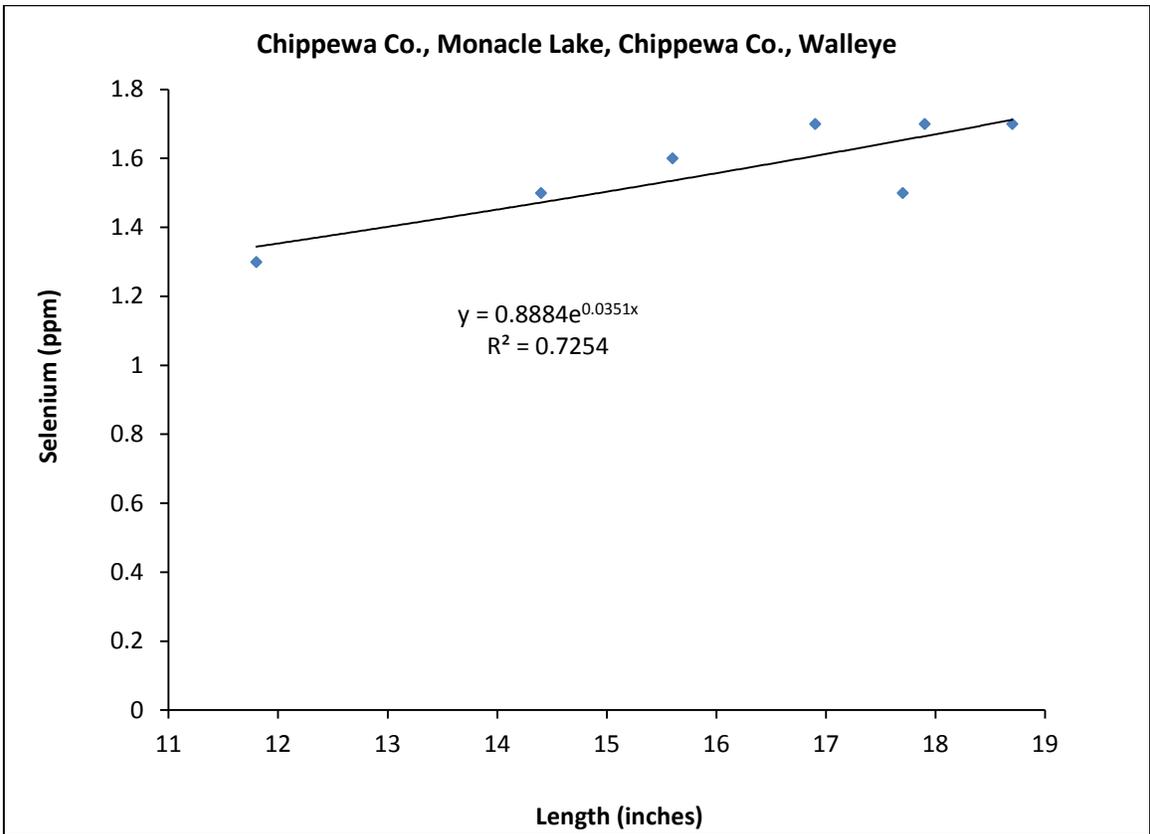
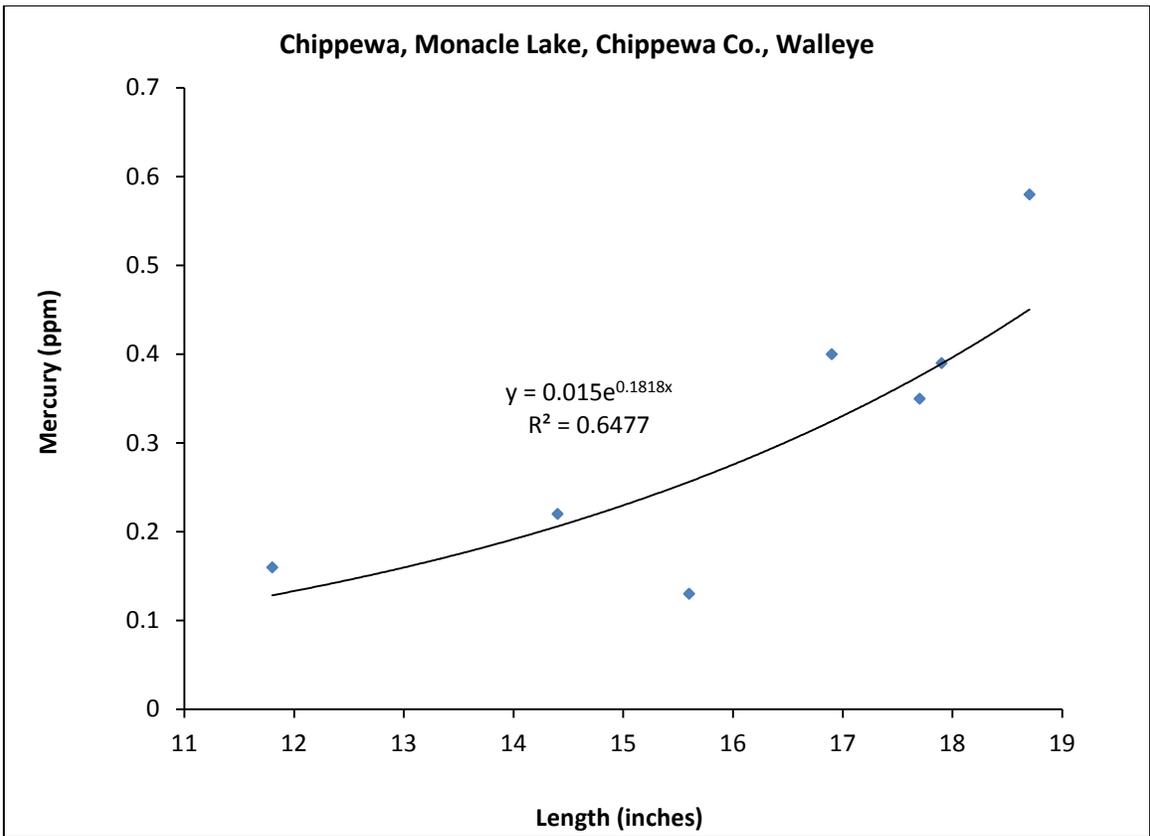
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95% (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Monocle Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of walleye larger than 20 inches or more than 2 meals per month of walleye smaller than 20 inches due to mercury. Statewide length break applied

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category	Se Regression Equation Estimate (ppm)	Meal Category
15	0.23	4	1.50	16
16	0.28	2	1.56	16
17	0.33	2	1.61	16
18	0.40	2	1.67	16
19	0.47	2	1.73	16
20	0.57	1	1.79	16
21	0.68	1	1.86	16
22	0.82	1	1.92	16
23	0.98	1	1.99	16

Shaded area denotes extrapolated estimates



Carp

**Tahquamenon River
River Mouth**

Chippewa County

Hg Analysis:

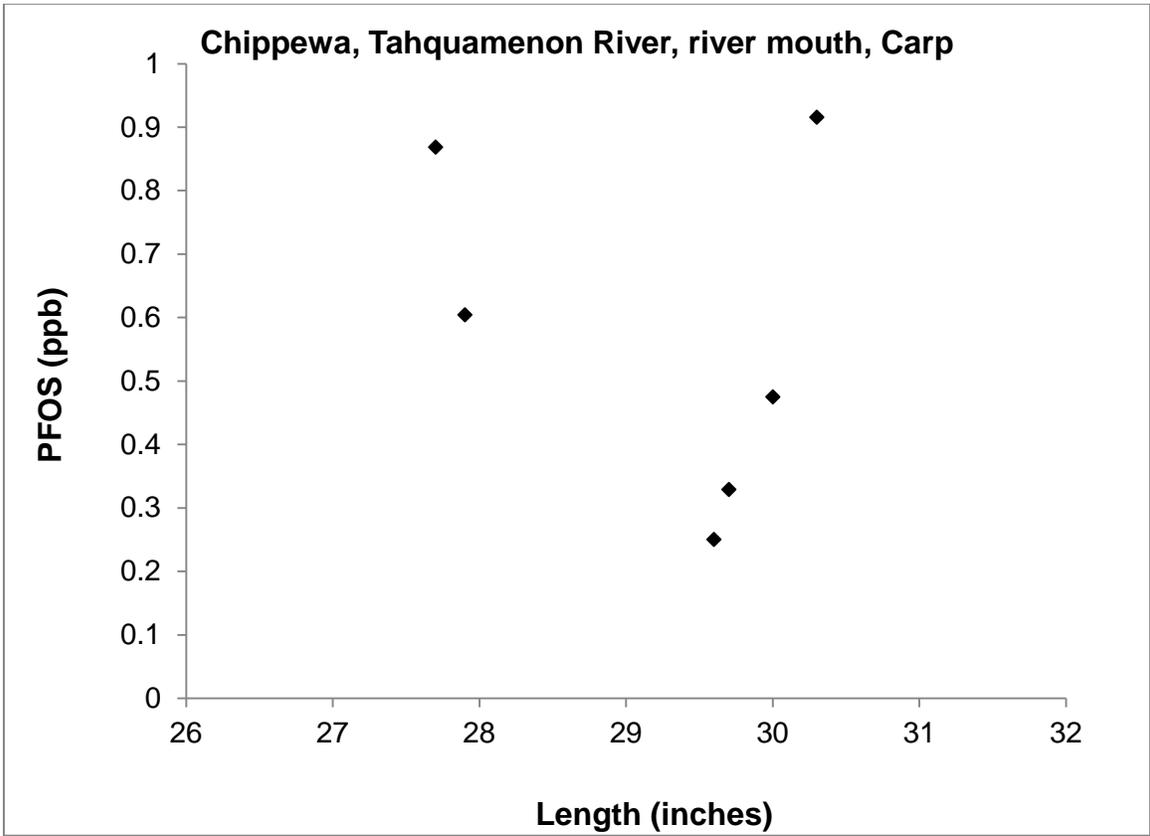
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2013	2014	6	27.7	na	27.7	30.3
Datasets available: 2013, 2014						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
PFOS	6	0.57 ppb	ND	0.9 ppb	0.9 ppb	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
PFOS	0.081	0.104				
Final meal category based on UCL:						16

Existing Advisory: Tahquamenon River carp are covered by the statewide advisory: No one should eat more than 2 meals per month of carp due to PCBs.

Recommendation: No change is recommended. Tahquamenon River carp will not be listed in the guide as these fish have not been tested for PCBs,



Rock Bass

**Tahquamenon River
River Mouth**

Chippewa County

Hg Analysis:

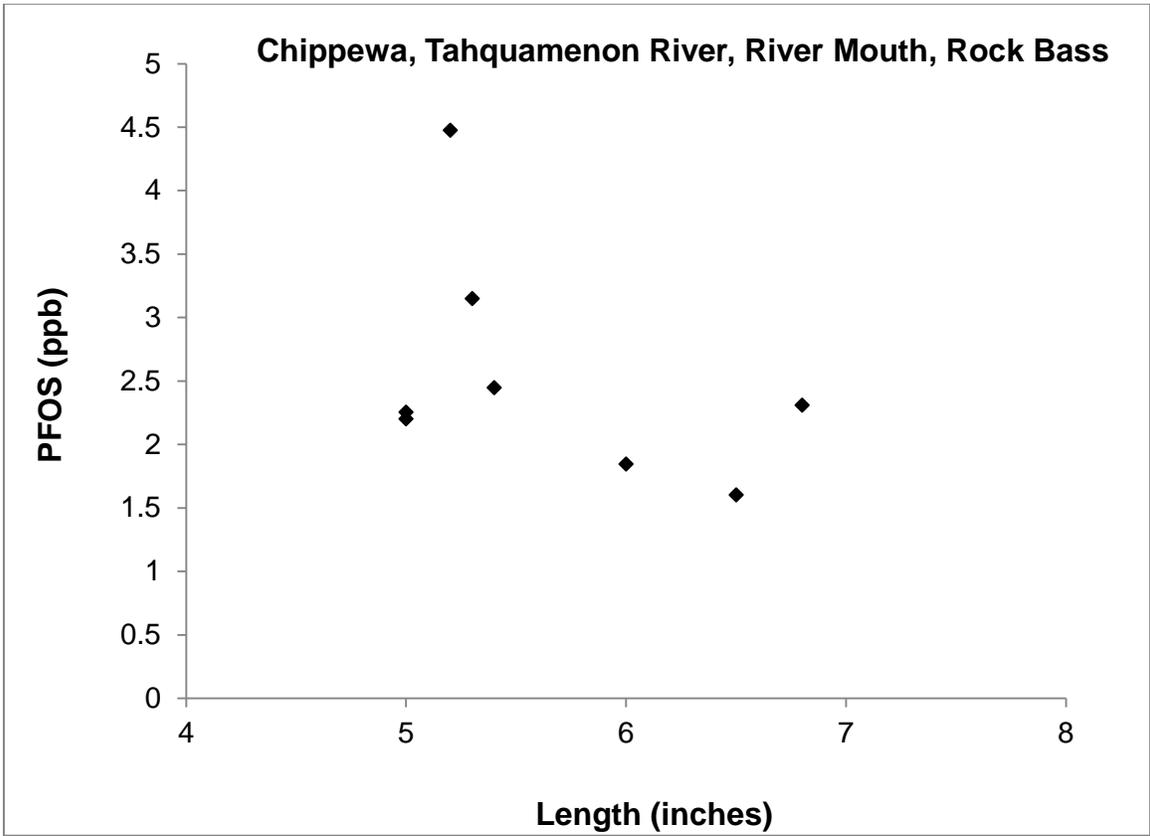
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2013	2014	8	5	na	5	6.8
Datasets available: 2013, 2014						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
PFOS	8	2.5 ppb	1.6 ppb	4.5 ppb	3.3 ppb	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
PFOS	0.197	0.242				
Final meal category based on UCL:						16

Existing Advisory: Tahquamenon River rock bass are covered by the statewide advisory: No one should eat more than 4 meals per month of rock bass due to mercury.

Recommendation: No change is recommended. Tahquamenon River rock bass will not be listed in the guide as these fish have not been tested for mercury.



Smallmouth Bass

**Tahquamenon River
River Mouth**

Chippewa County

Hg Analysis:

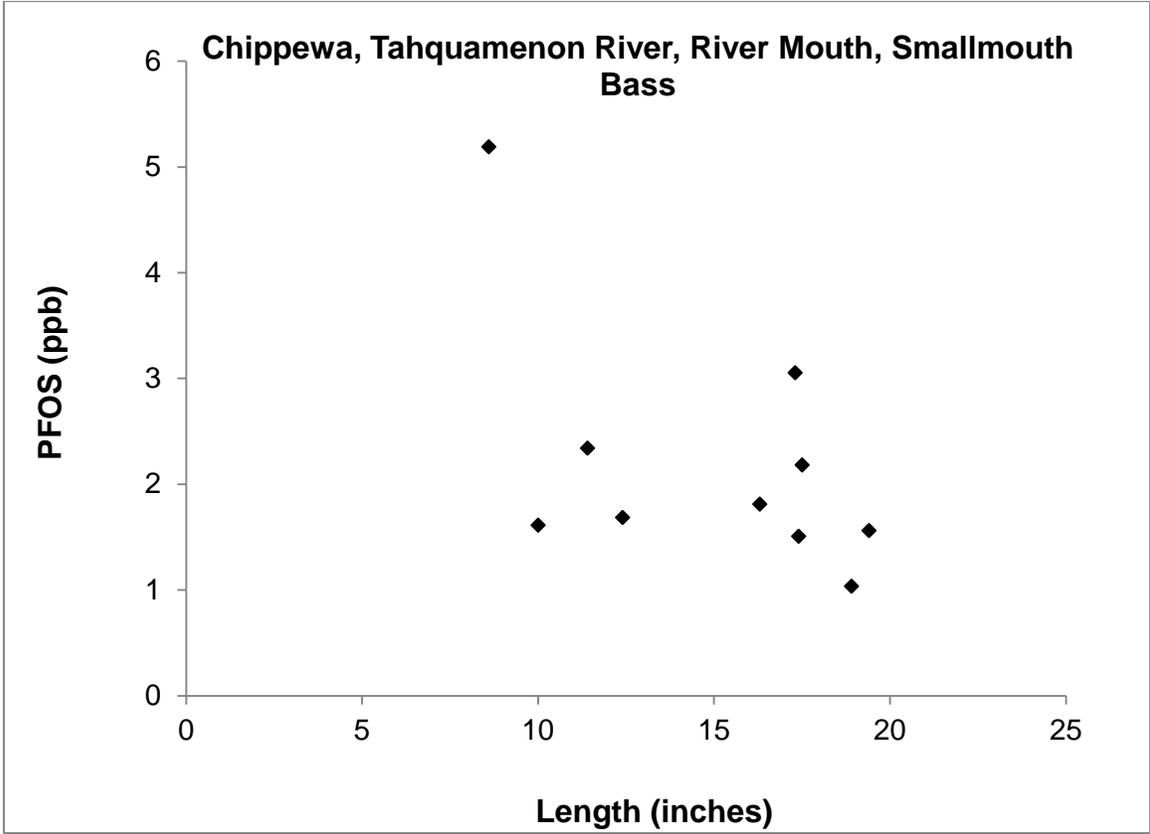
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2013	2013	10	8.6	14	16.3	19.4
Datasets available: 2013						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
PFOS	6	1.9 ppb	1.0 ppb	3.0 ppb	2.6 ppb	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
PFOS	0.299	0.287				
Final meal category based on UCL:						16

Existing Advisory: Tahquamenon River smallmouth bass are covered by the statewide advisory: No one should eat more than 2 meals of per month of largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches due to mercury.

Recommendation: No change is recommended. Tahquamenon River smallmouth bass will not be listed in the guide as these fish have not been tested for mercury.



Yellow Perch

**Tahquamenon River
River Mouth**

Chippewa County

Hg Analysis:

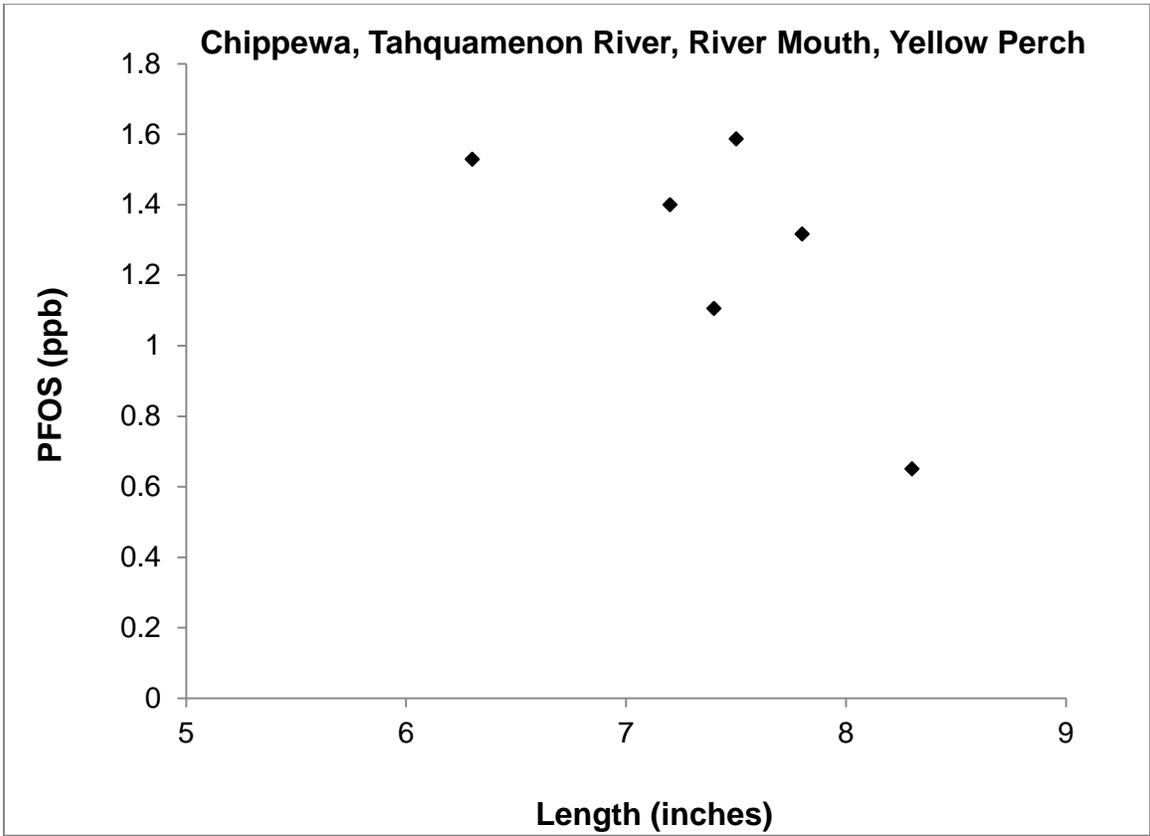
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2014	2014	6	6.3	na	6.3	8.3
Datasets available: 2014						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
PFOS	6	1.3 ppb	0.6 ppb	1.6 ppb	1.6 ppb	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
PFOS	0.503	0.503				
Final meal category based on UCL:						16

Existing Advisory: Tahquamenon River yellow perch are covered by the statewide advisory: No one should eat more than 4 meals per month of yellow perch due to mercury.

Recommendation: No change is recommended. Tahquamenon River yellow perch will not be listed in the guide as these fish have not been tested for mercury.



Delta County

Northern Pike

Round Lake

Delta County

Hg Analysis:

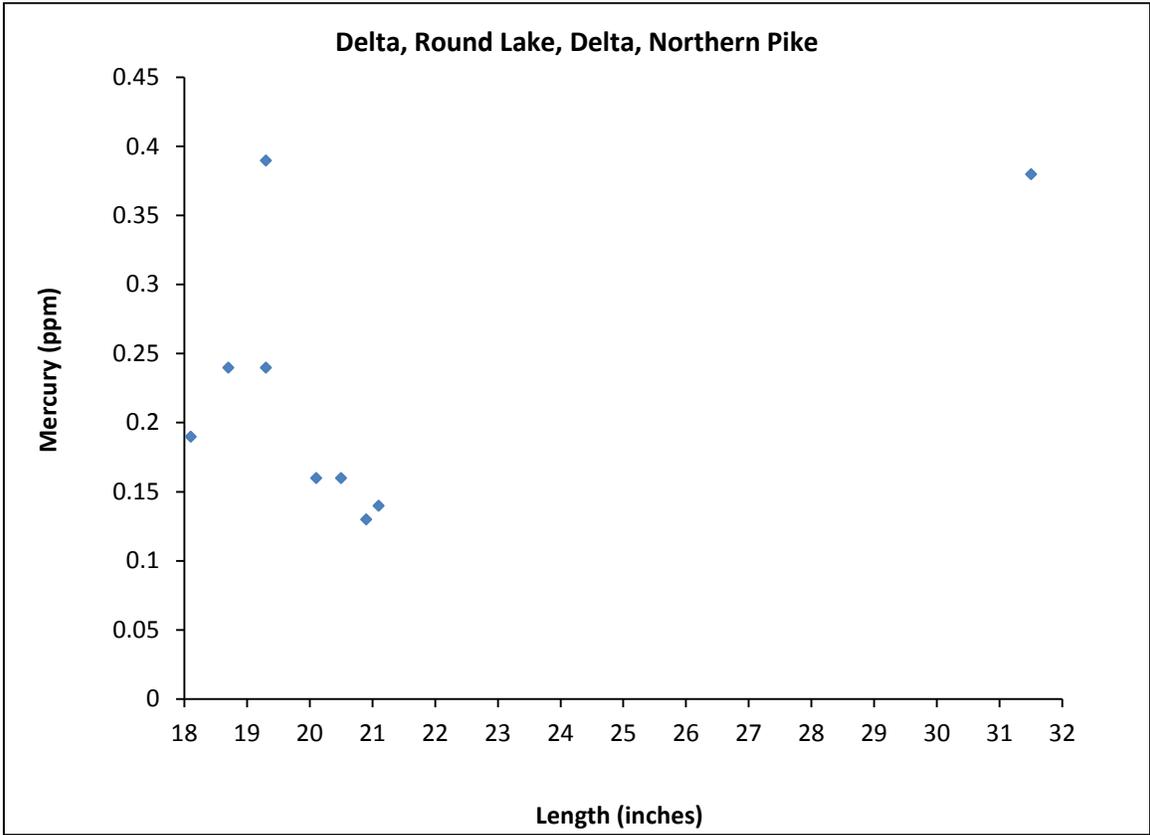
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
1987	1987	9	18.1	24	31.5	31.5
Datasets available: 1987						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	1	0.38	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.216	0.164				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Round Lake northern pike are covered under the statewide mercury consumption advisory.

Recommendation: The size range of fish in this sample set is limited and not used to set a guideline. The statewide guidelines apply: No one should eat more than 1 meal per month of northern pike larger than 30 inches or more than 2 meals per month of northern pike smaller than 30 inches in length.



Walleye

Round Lake

Delta County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	1987	8	15	15	24.8	
Datasets available: 1987						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	8	0.47	0.10	1.17	0.80	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.875	0.766				

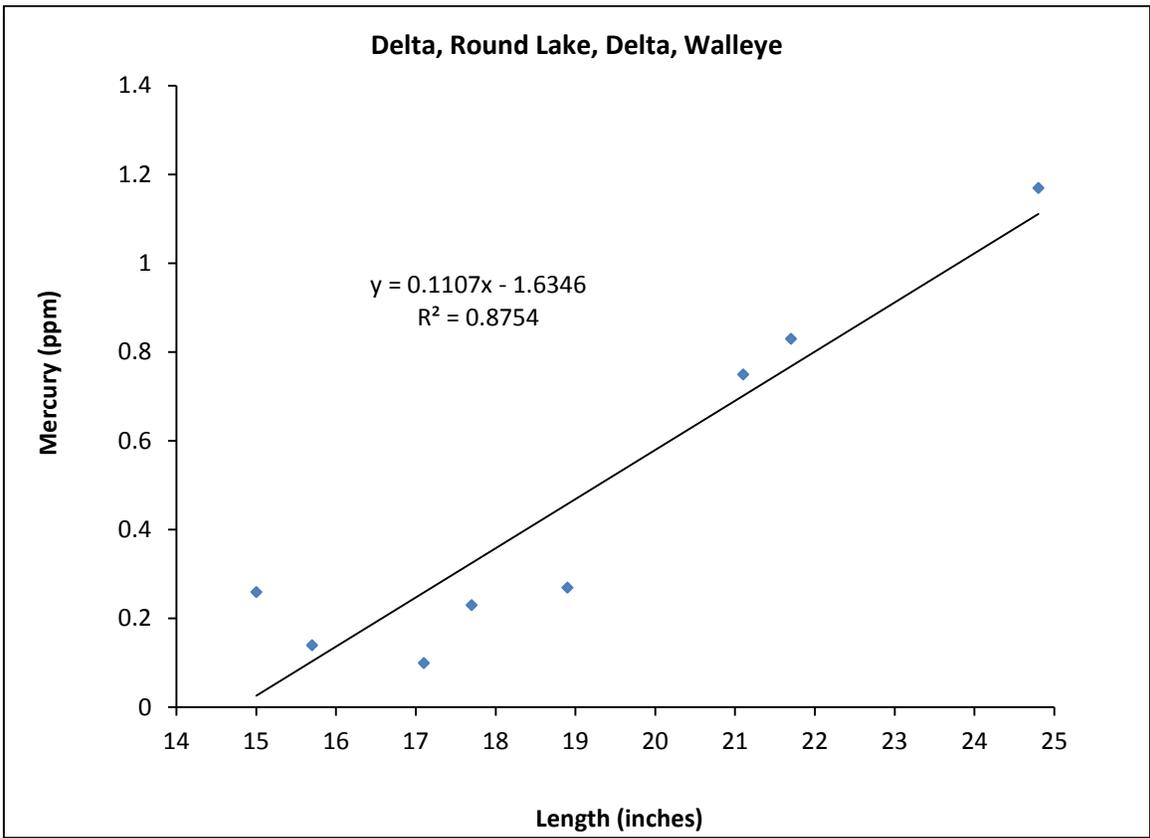
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Round Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 2 meals per month of Round Lake walleye smaller than 20 inches or more than 1 meal per month of those fish larger than 20 inches due to mercury.

Length (Inches)	Regression Equation Estimate (ppm)	Meal Category
15	0.026	16
16	0.137	4
17	0.247	4
18	0.358	2
19	0.469	2
20	0.579	1
21	0.690	1
22	0.801	1
24	1.022	1
<i>Shaded area denotes extrapolated estimates</i>		



Dickinson County

**Largemouth
& Smallmouth Bass
Hg Analysis:**

Lake Antoine

Dickinson County

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	9	12.4	14	13.6	18.7
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	4	0.38	0.14	0.54	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.909	0.904				

Organics Analysis:

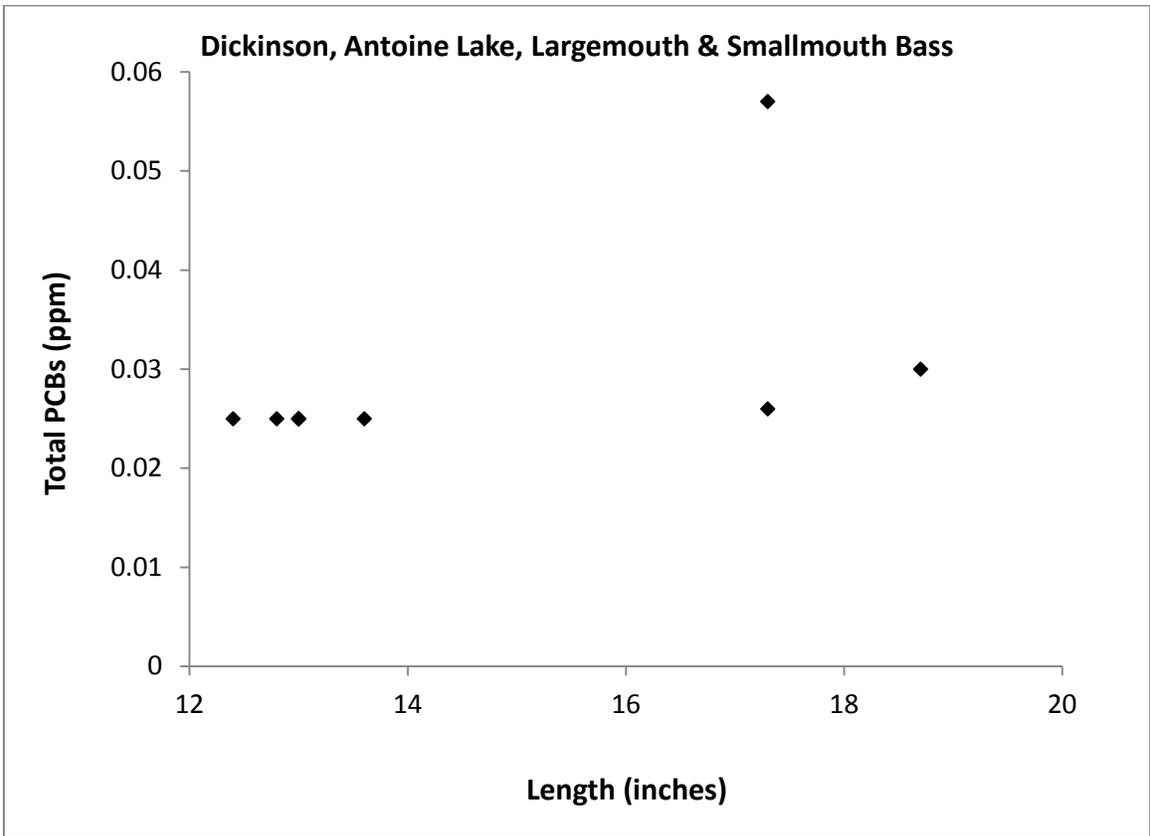
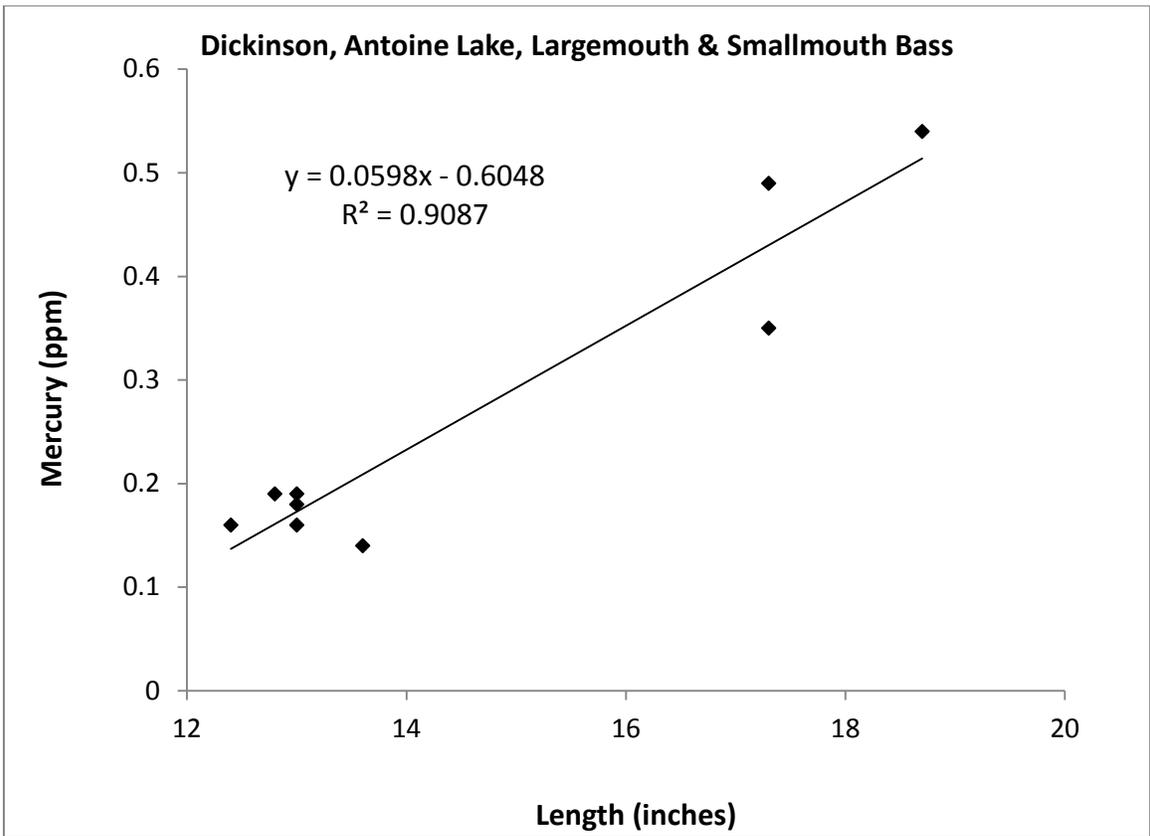
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	9	12.4	14	13.6	18.7
Datasets available: 1988						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	4	0.04	0.02	0.06	--	--
DDT	4	0.02	0.006	0.03	--	--
Chlordane	4	0.003	0.003	0.004	--	--
Toxaphene	0	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.287	0.340				
DDT	0.447	0.669				
Chlordane	0.175	0.175				
Toxaphene	--	--				
Final meal category based on UCL:						--

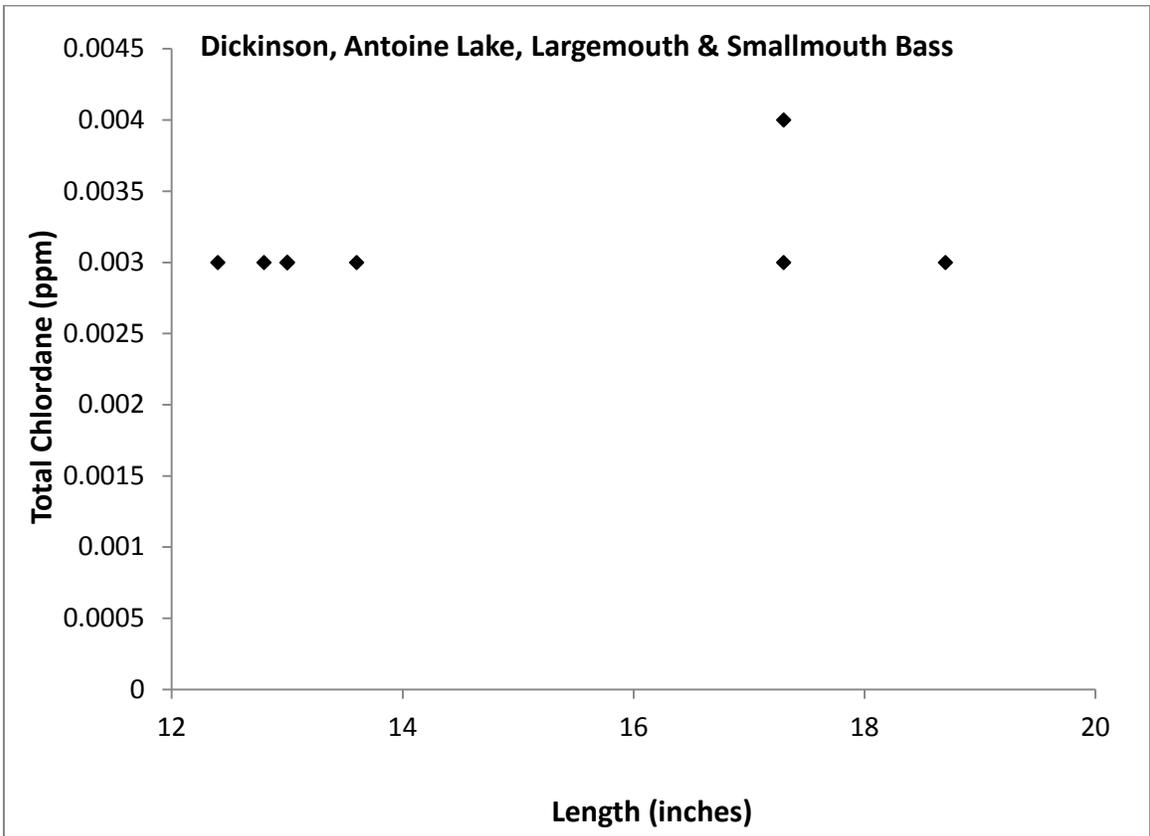
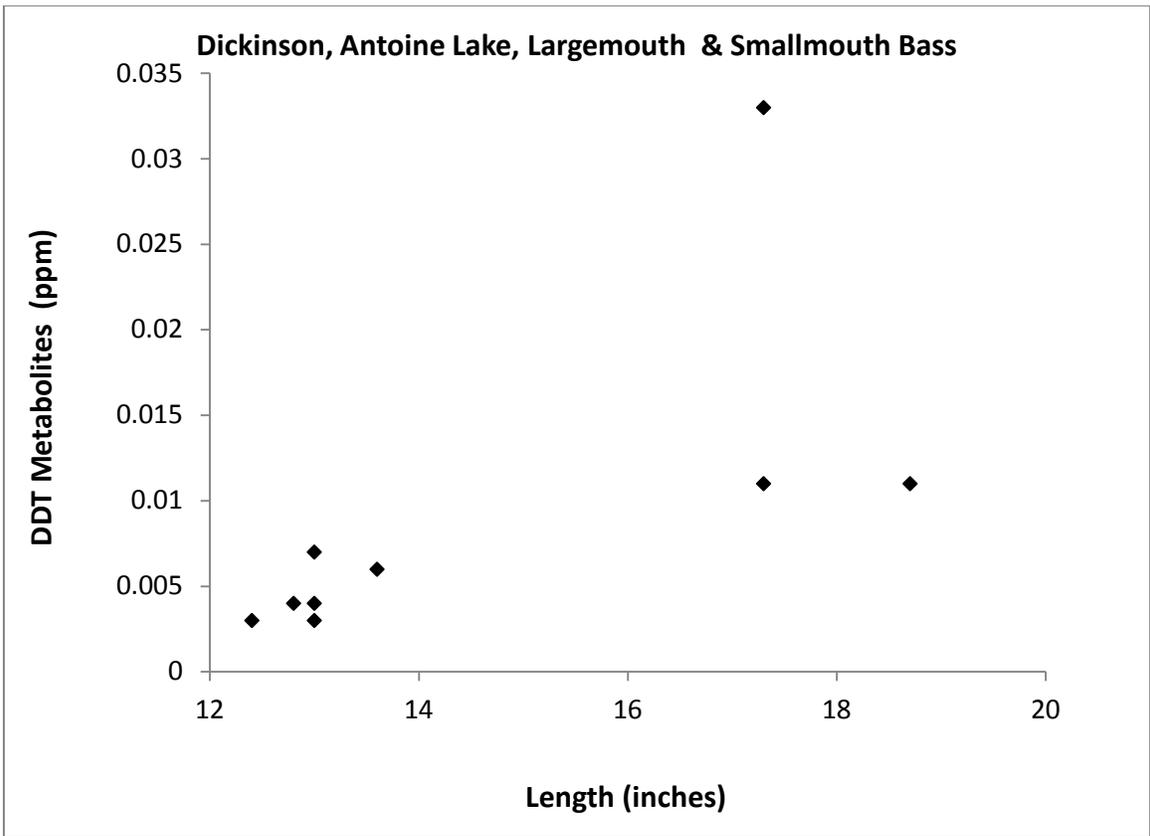
Existing Advisory: Antoine Lake largemouth bass are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 2 meals per month of Antoine Lake largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches due to mercury. PCBs would cause an advisory.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
13	0.17	4
14	0.23	4
15	0.29	2
16	0.35	2
17	0.41	2
18	0.47	2
19	0.53	2
20	0.59	1
21	0.65	1

Shaded area denotes extrapolated estimates





Northern Pike

Lake Antoine

Dickinson County

Hg Analysis:

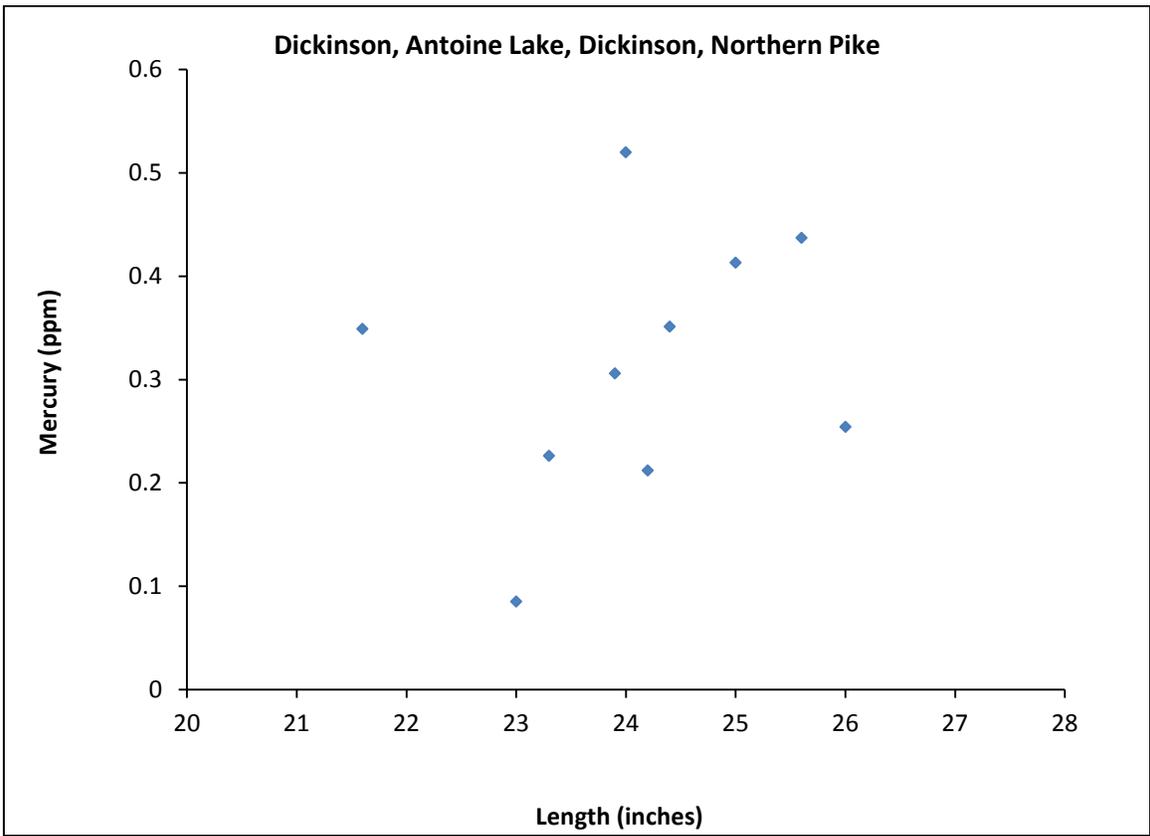
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2005	2005	10	21.6	24	23.9	26
Datasets available: 2005						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	7	0.356	0.212	0.520	0.460	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.007	0.003				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Women and children should not eat more than one meal per week of Antoine Lake northern pike smaller than 26 inches or more than one meal per month of Antoine Lake northern pike larger than 26 inches due to mercury.

Recommendation: No one should eat more than 1 meal per month of northern pike larger than 30 inches or more than 2 meals per month of northern pike smaller than 30 inches in length. The size range of fish in this sample set is limited. Statewide length break applied as the size of the fish was limited.



Walleye

Lake Antoine

Dickinson County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	2005	13	14.2	15	14.6	22
Datasets available: 1988, 2005						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	12	0.22	0.10	0.40	0.27	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.553	0.614				

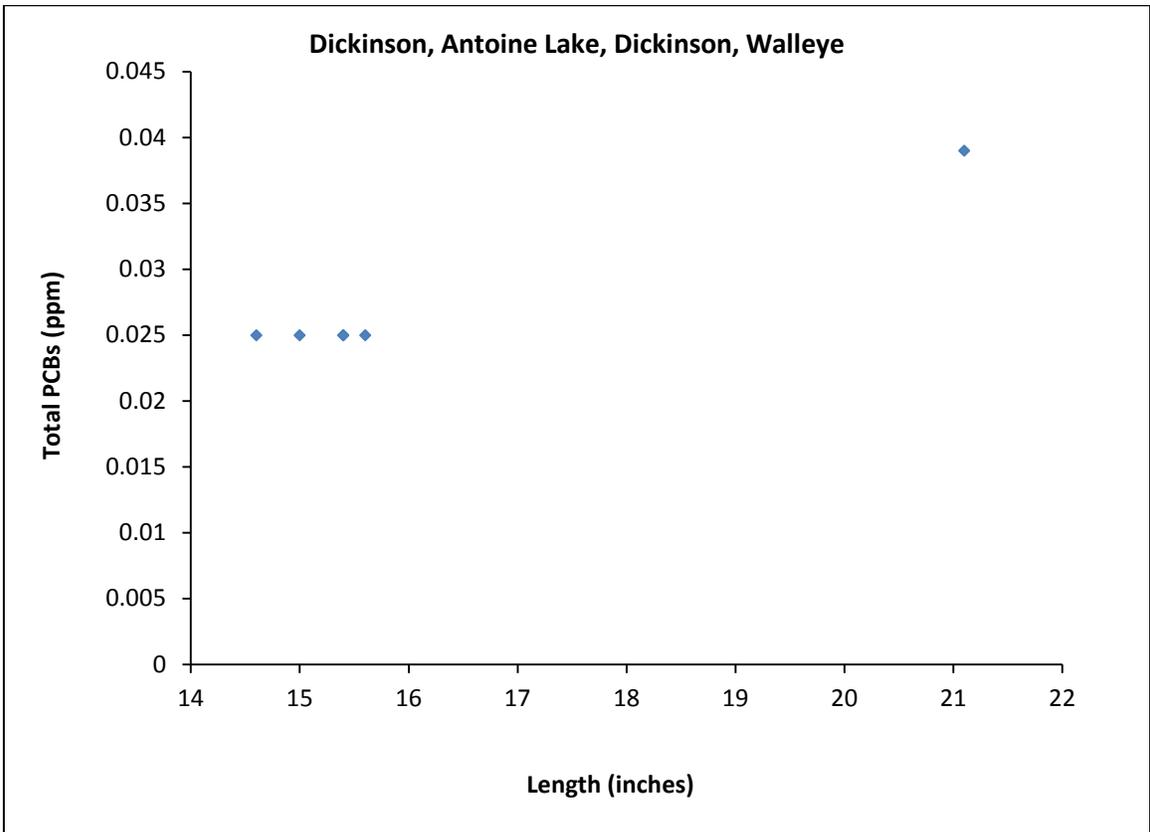
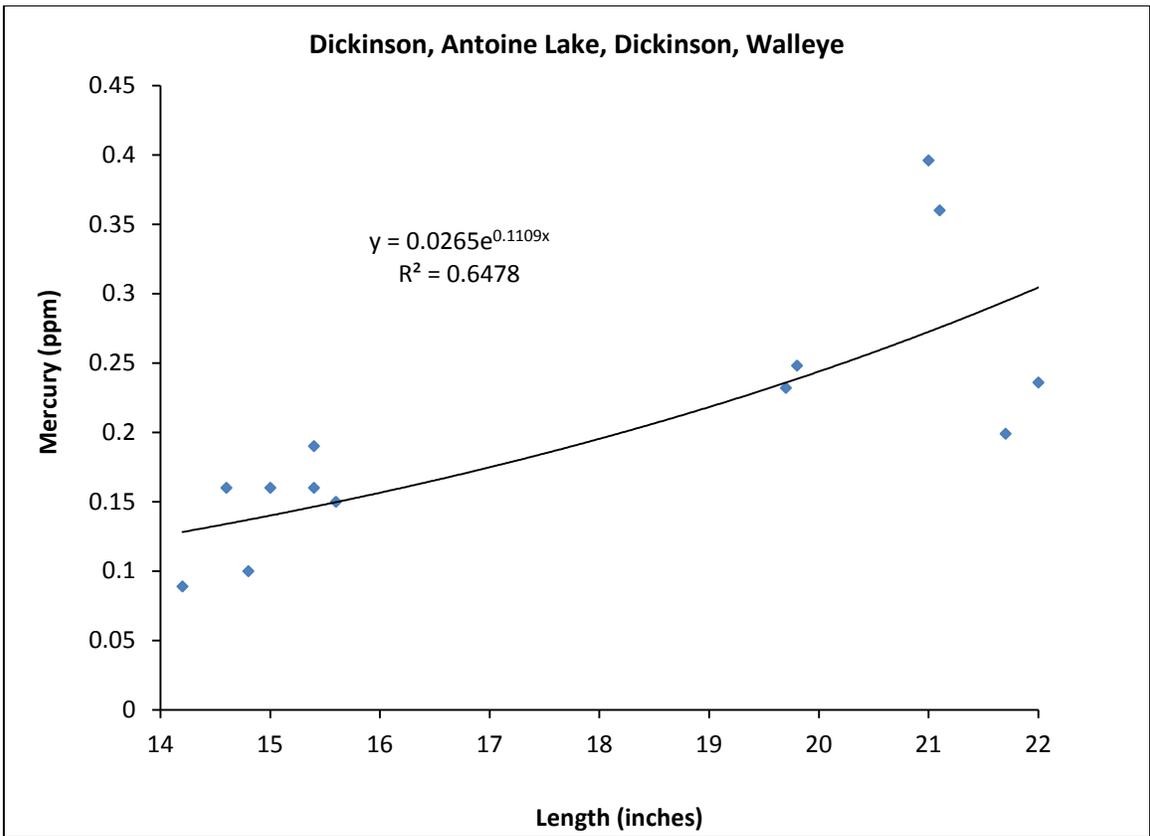
Organics Analysis:

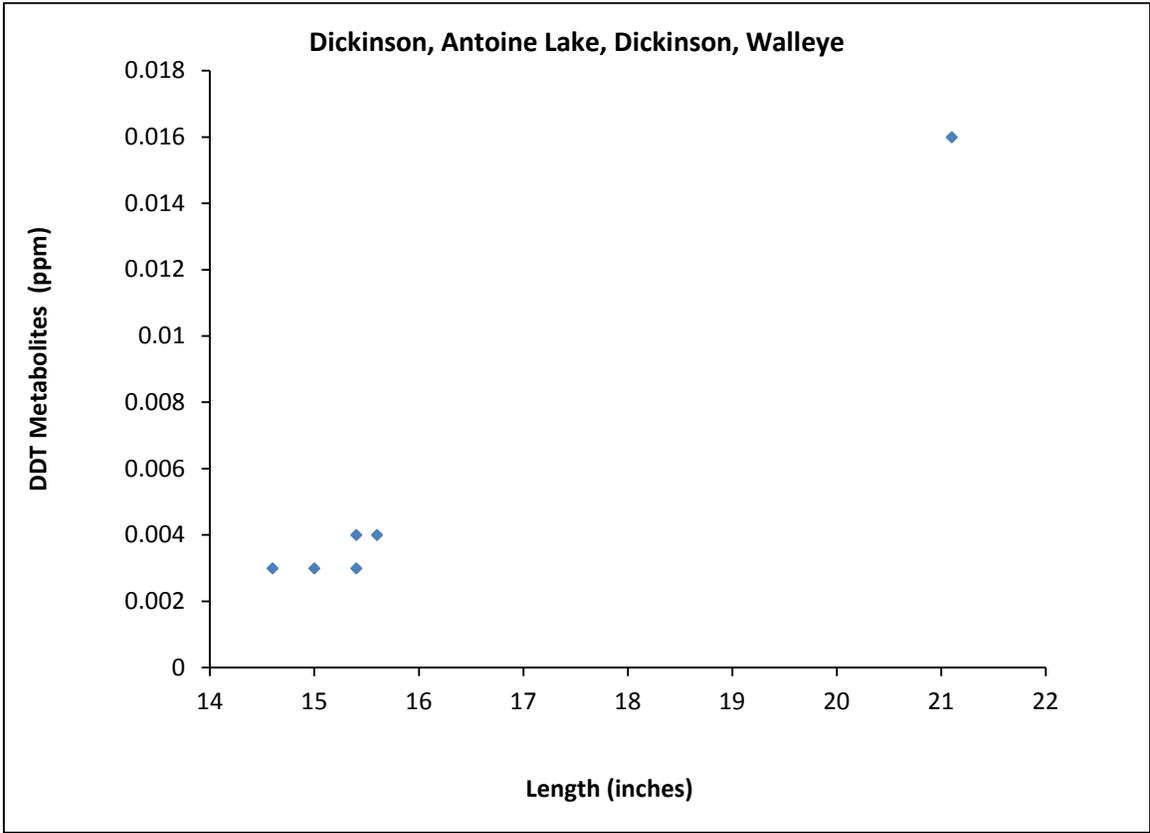
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	6	14.6	14.6	14.6	21.1
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	6	0.027	0.025	0.039	0.030	8
DDT	6	0.006	0.003	0.016	0.010	16
Chlordane	6	ND	--	--	--	--
Toxaphene	6	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.978	0.978				
DDT	0.988	0.975				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Women and children should eat no more than one meal per week of Antoine Lake walleye smaller than 22 inches and no more than one meal per month of Antoine Lake walleye larger than 22 inches due to mercury.

Recommendation: No one should eat more than 4 meals per month of Antoine Lake walleye smaller than 20 inches or more than 2 meals per month of those fish larger than 20 inches due to mercury. PCBs would cause an advisory.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
14	0.12	8
15	0.14	4
16	0.16	4
17	0.18	4
18	0.20	4
19	0.22	4
20	0.24	4
21	0.27	2
22	0.30	2
<i>Shaded area denotes extrapolated estimates</i>		





Northern Pike

Carney Lake

Dickinson County

Hg Analysis:

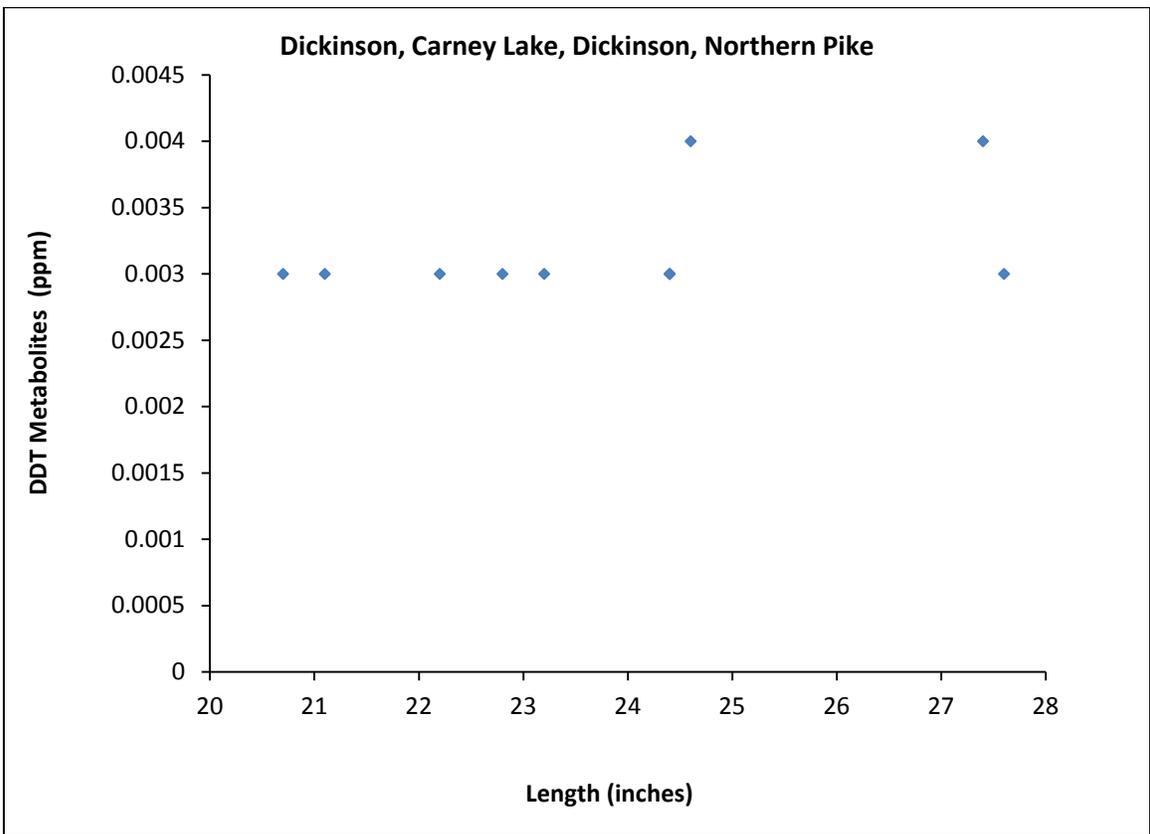
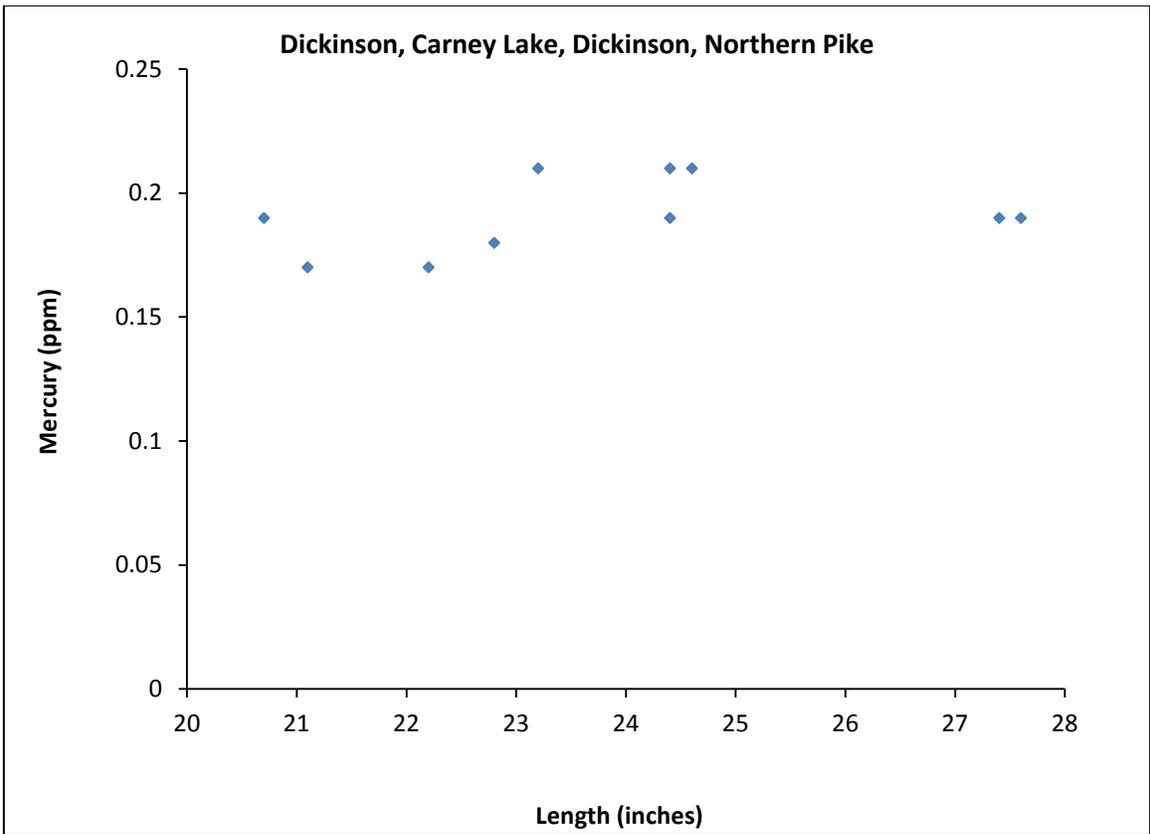
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1989	10	20.7	24	24.6	27.4
Datasets available: 1989						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.20	0.19	0.21	0.21	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.120	0.131				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1989	10	20.7	24.6	24.6	27.4
Datasets available: 1989						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	5	ND	--	--	--	--
DDT	5	0.003	0.003	0.004	0.004	16
Chlordane	5	ND	--	--	--	--
Toxaphene	5	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	0.235	0.235				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Carney Lake northern pike are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 4 meals per month of Carney Lake northern pike smaller than 30 inches or more than 2 meals per month of those fish larger than 30 inches due to mercury. Statewide length break applied as the size of the fish was limited.



Walleye

Carney Lake

Dickinson County

Hg Analysis:

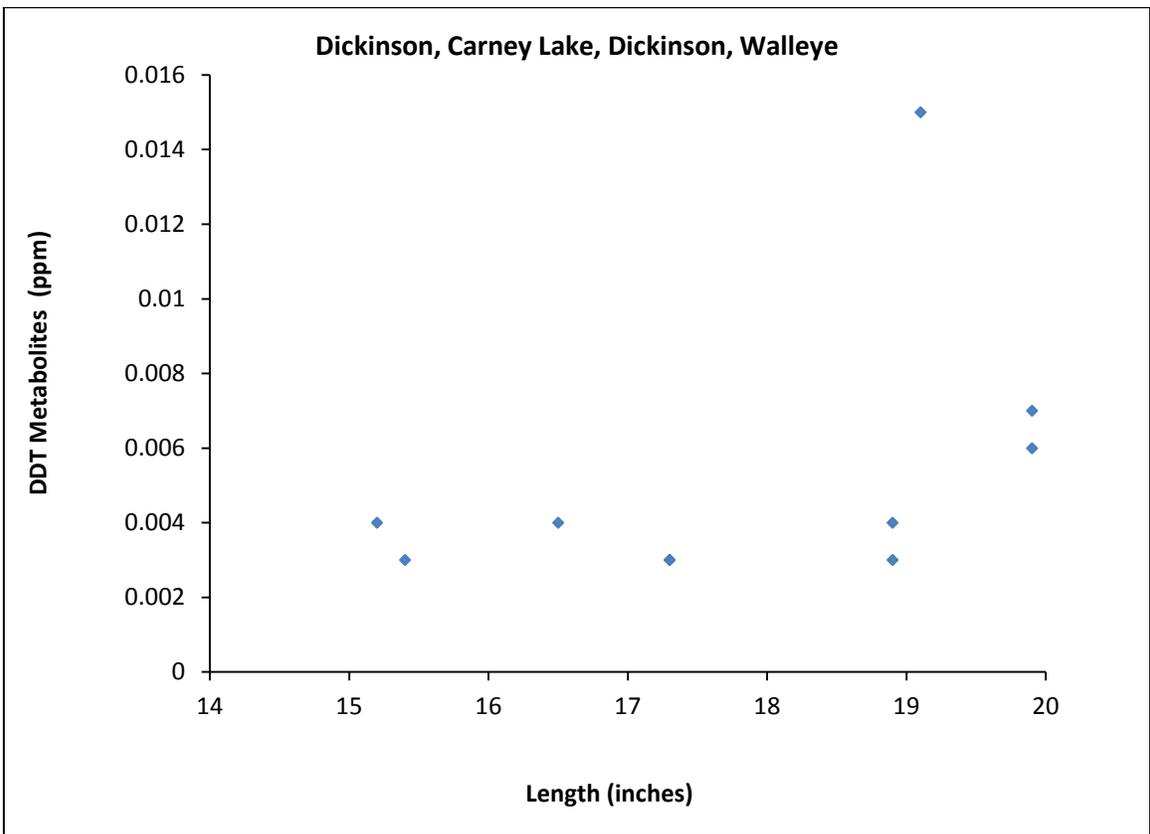
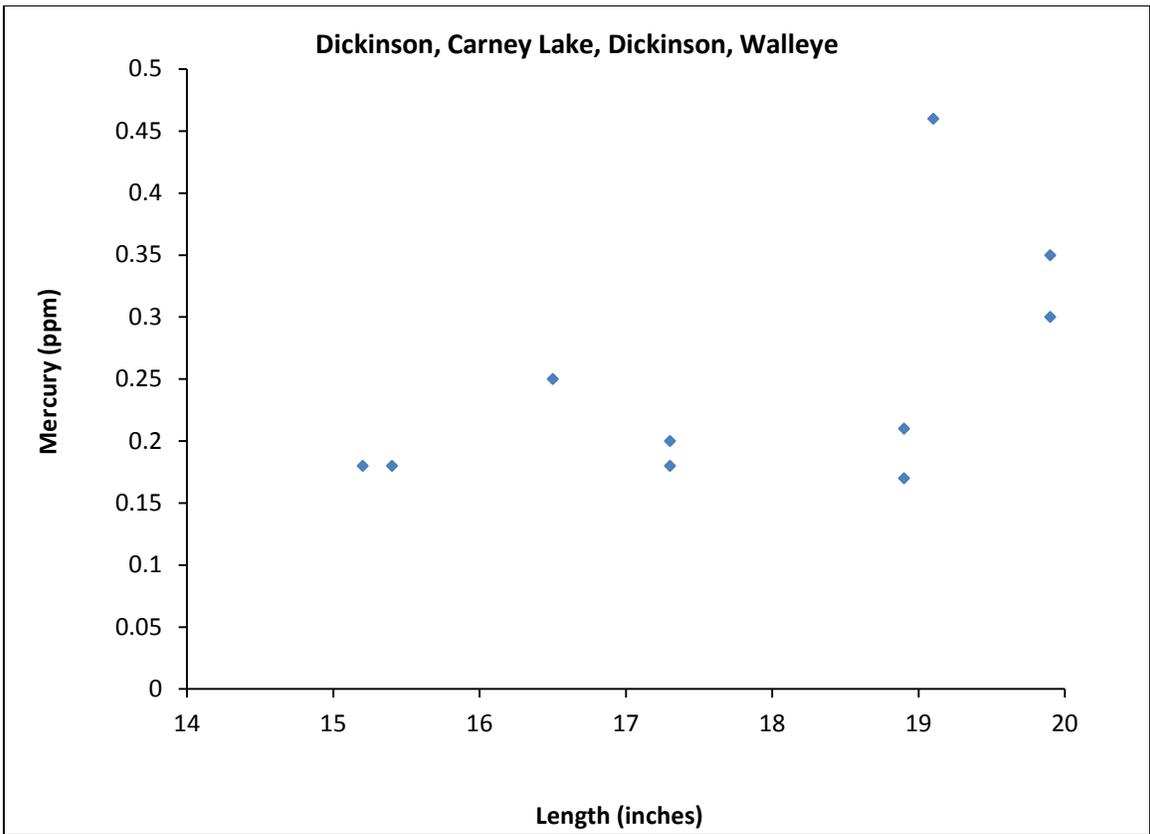
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1989	10	15.2	15	15.2	19.9
Datasets available: 1989						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.25	0.17	0.46	0.32	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.333	0.362				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1989	10	15.2	15.2	15.2	19.9
Datasets available: 1989						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	ND	--	--	--	--
DDT	10	0.005	0.003	0.015	0.010	16
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	0.208	0.284				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Carney Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more 2 meals per month of Carney Lake walleye smaller than 20 inches or more than 1 meal per month of those fish larger than 20 inches due to mercury. Statewide length break applied as the size of the fish was limited.



Smallmouth Bass

Fumee Lake

Dickinson County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1990	1990	10	11.2	14	13.8	17.3
Datasets available: 1990						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	7	0.53	0.37	0.81	0.67	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.788	0.863				

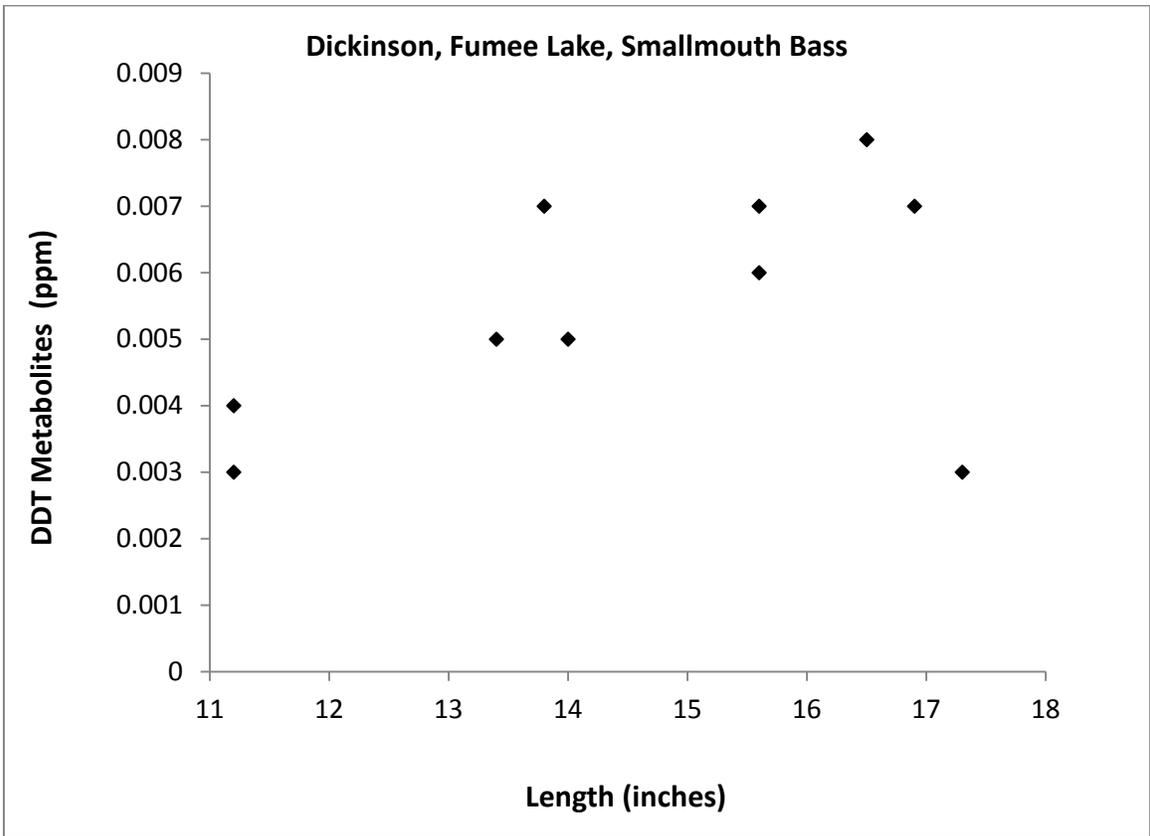
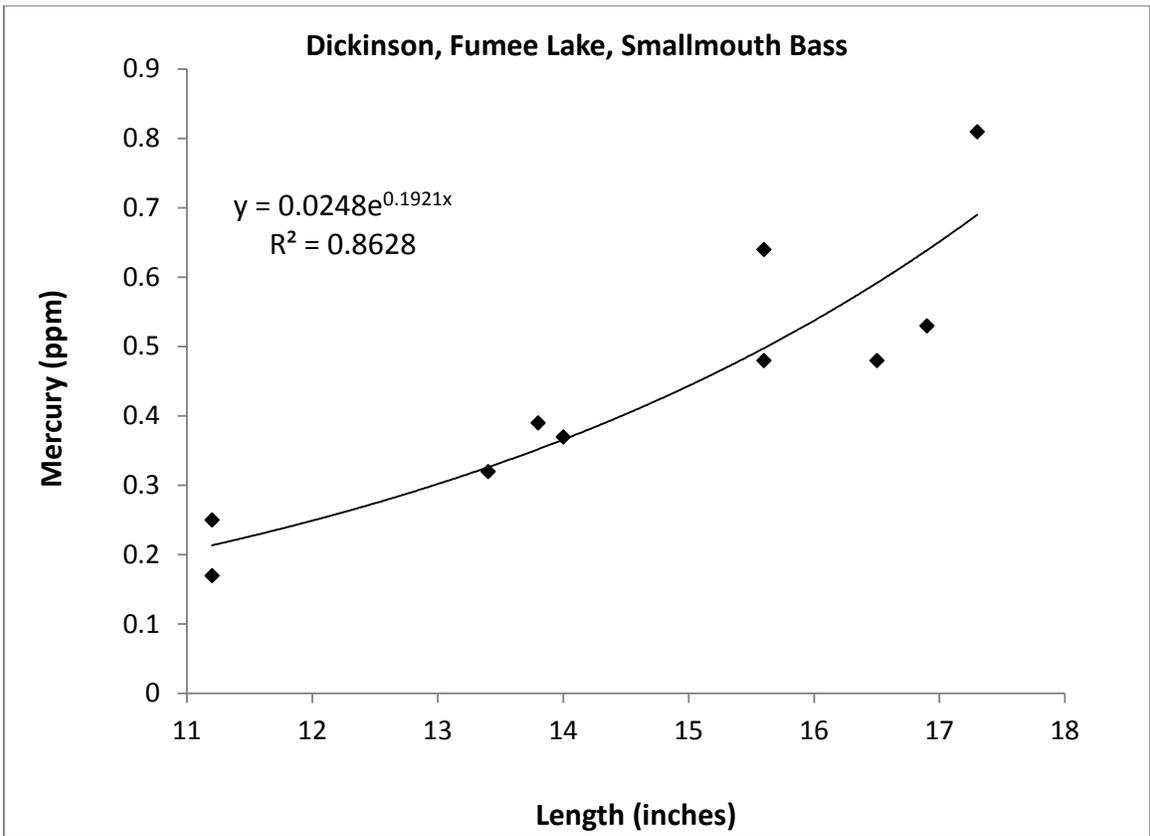
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1990	1990	10	11.2	14	13.8	17.3
Datasets available: 1990						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	7	ND	--	--	--	--
DDT	7	0.006	0.003	0.008	0.01	16
Chlordane	7	ND	--	--	--	--
Toxaphene	7	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	0.225	0.186				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Fumee Lake smallmouth bass are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of Fumee Lake largemouth or smallmouth bass smaller than 18 inches or more than 6 meals per year of those fish larger than 18 inches. Statewide length break applied as the size of the fish was limited.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
13	0.30	2
14	0.37	2
15	0.44	2
16	0.54	1
17	0.65	1
18	0.79	1
19	0.95	1
20	1.16	0.5
21	1.4	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Northern Pike

Hamilton Lake

Dickinson County

Hg Analysis:

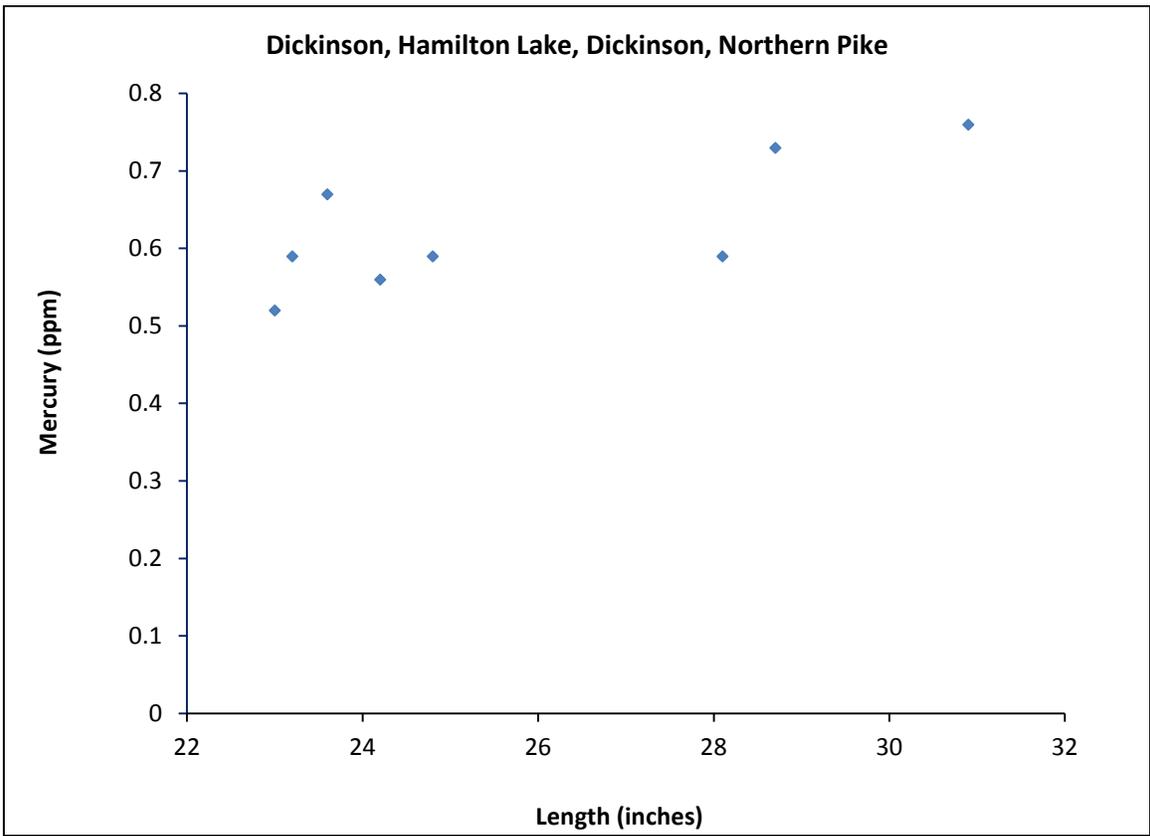
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1994	1994	8	23	24	24.2	30.9
Datasets available: 1994						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.65	0.56	0.76	0.74	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.568	0.552				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Hamilton Lake northern pike are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 1 meal per month of Hamilton Lake northern pike smaller than 30 inches or more than 6 meals per year of those fish larger than 30 inches due to mercury. Statewide length break applied as the size of the fish was limited.



Walleye

Hamilton Lake

Dickinson County

Hg Analysis:

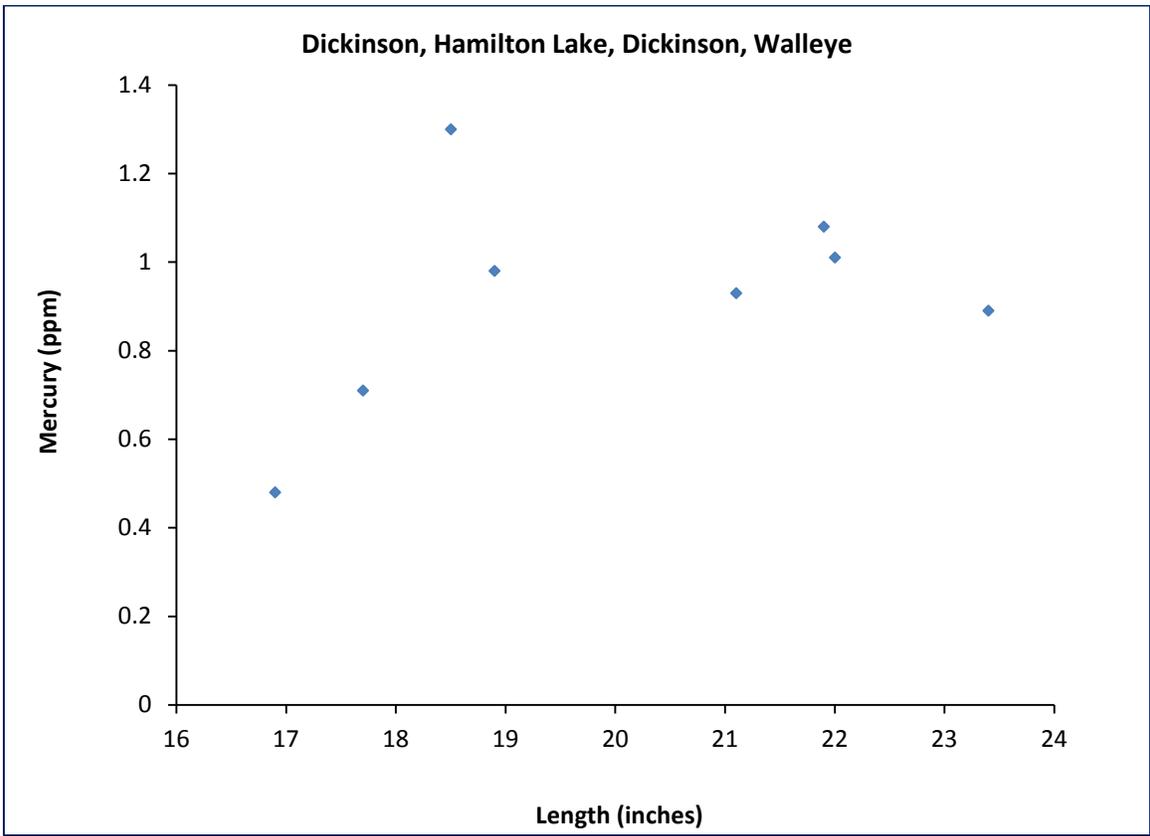
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1994	1994	8	16.9	15	16.9	23.4
Datasets available: 1994						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	8	0.92	0.48	1.3	1.13	0.5
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.158	0.238				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						0.5

Existing Advisory: Hamilton Lake walleye are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 6 meals per year of Hamilton Lake walleye due to mercury.



Largemouth Bass

Hanbury Lake

Dickinson County

Hg Analysis:

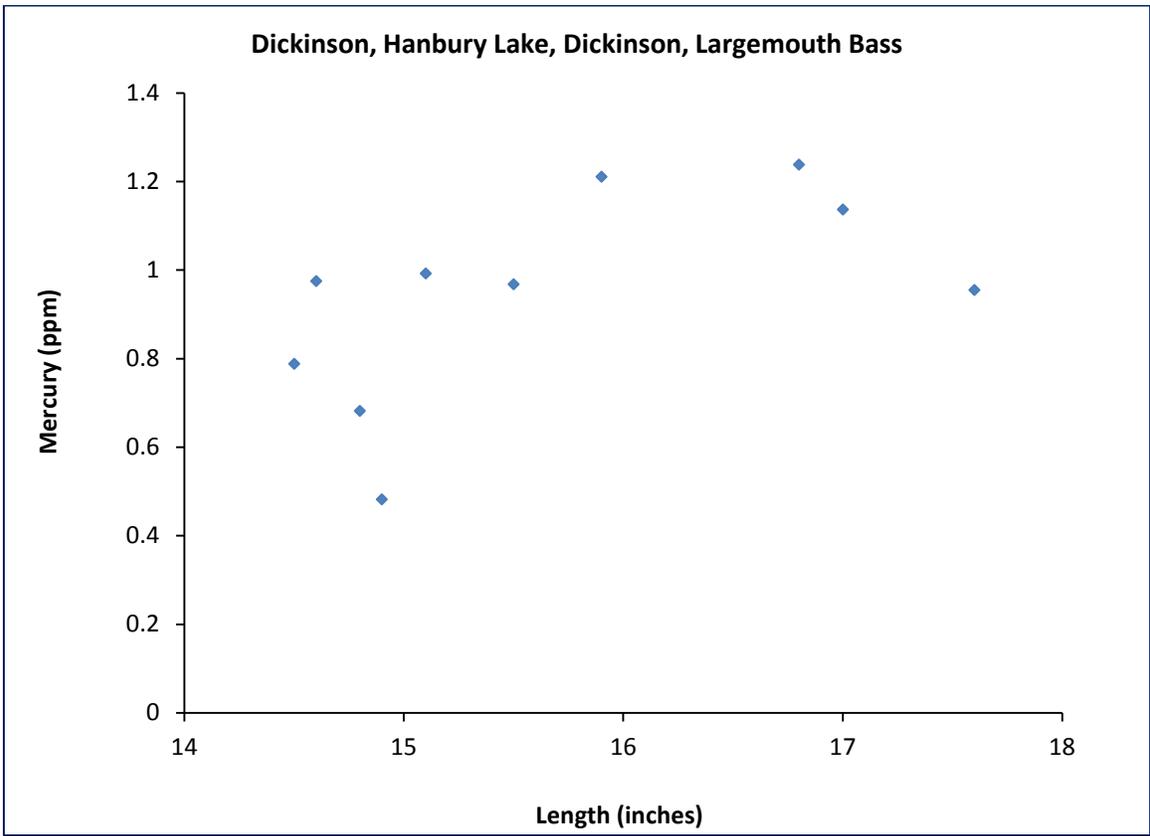
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2005	2005	10	14.6	14	14.6	17.6
Datasets available: 2005						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.94	0.48	1.24	1.11	0.5
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.338	0.300				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						0.5

Existing Advisory: Hanbury Lake largemouth bass are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat any Hanbury Lake largemouth or smallmouth bass larger than 18 inches or more than 6 meals per year of those fish smaller than 18 inches due to mercury. Statewide length break applied as the size of the fish was limited.



Largemouth Bass

Mary Lake

Dickinson County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2008	2008	10	11.2	14	13.7	15.9
Datasets available: 2008						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.74	0.63	0.83	0.83	1
Selenium	6	0.63	0.52	0.69	0.69	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.777	0.797				
Selenium	0.537	0.521				

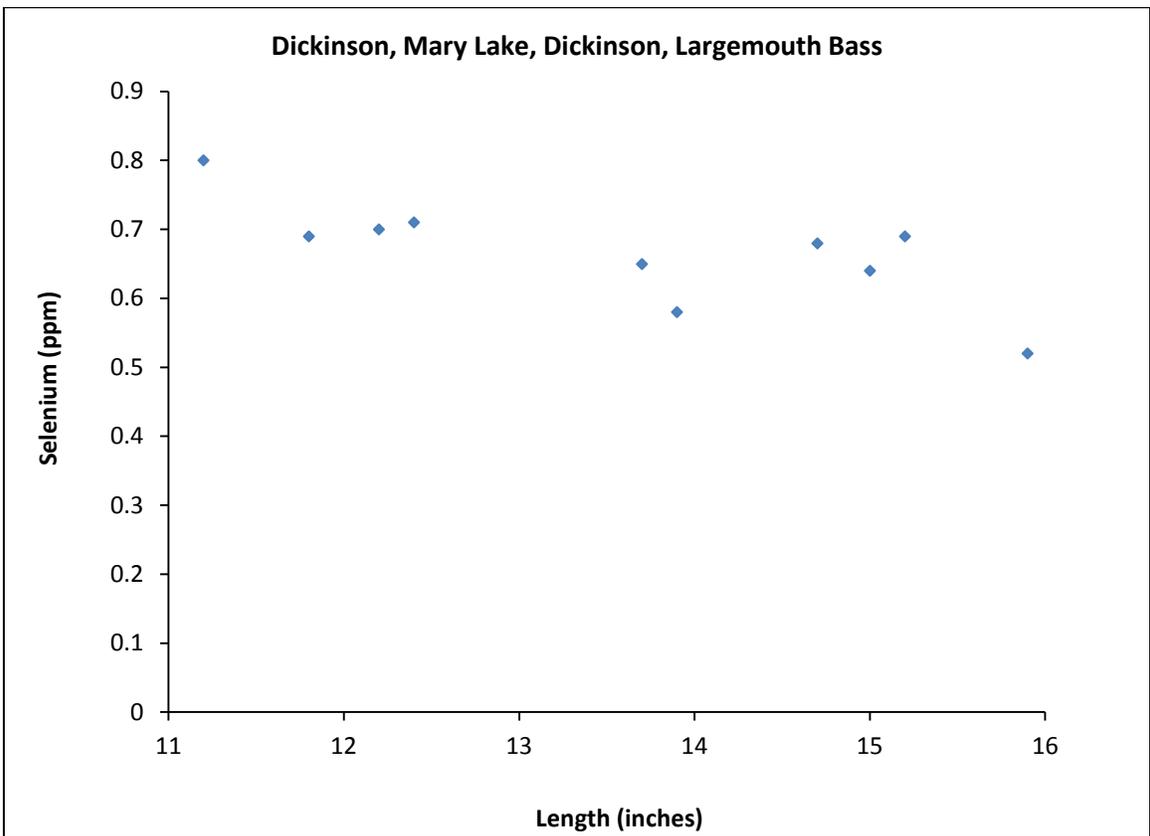
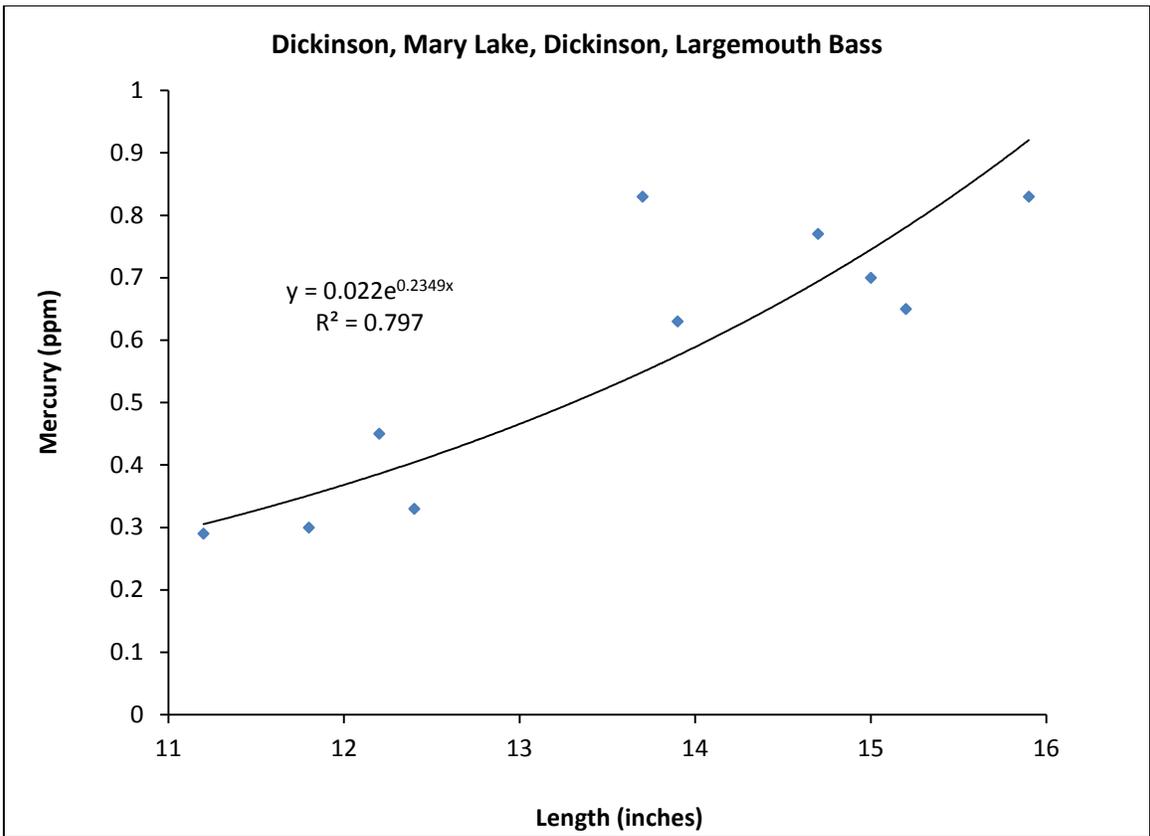
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Mary Lake largemouth bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Mary Lake largemouth or smallmouth bass smaller than 16 inches or more than 6 meals per year of those fish larger than 16 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
14	0.590	1
15	0.746	1
16	0.943	1
17	1.193	0.5
18	1.509	0.5
19	1.909	0.5
20	2.414	0
21	3.053	0
22	3.862	0
<i>Shaded area denotes extrapolated estimates</i>		



Largemouth Bass

Pickerel Lake

Dickinson County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
1987	1987	1	13.6	14	13.6	13.6	
Datasets available: 1987							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
Mercury	1	0.4	--	--	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury	--	--					

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
--	--	--	--	--	--	--	
Datasets available: --							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
PCB	0	--	--	--	--	--	
DDT	0	--	--	--	--	--	
Chlordane	0	--	--	--	--	--	
Toxaphene	0	--	--	--	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	--	--					
DDT	--	--					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							--

Existing Advisory: Largemouth bass from Pickerel Lake are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide guidelines apply: No one should eat more than 2 meals per month of largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches.

Northern Pike

Pickerel Lake

Dickinson County

Hg Analysis:

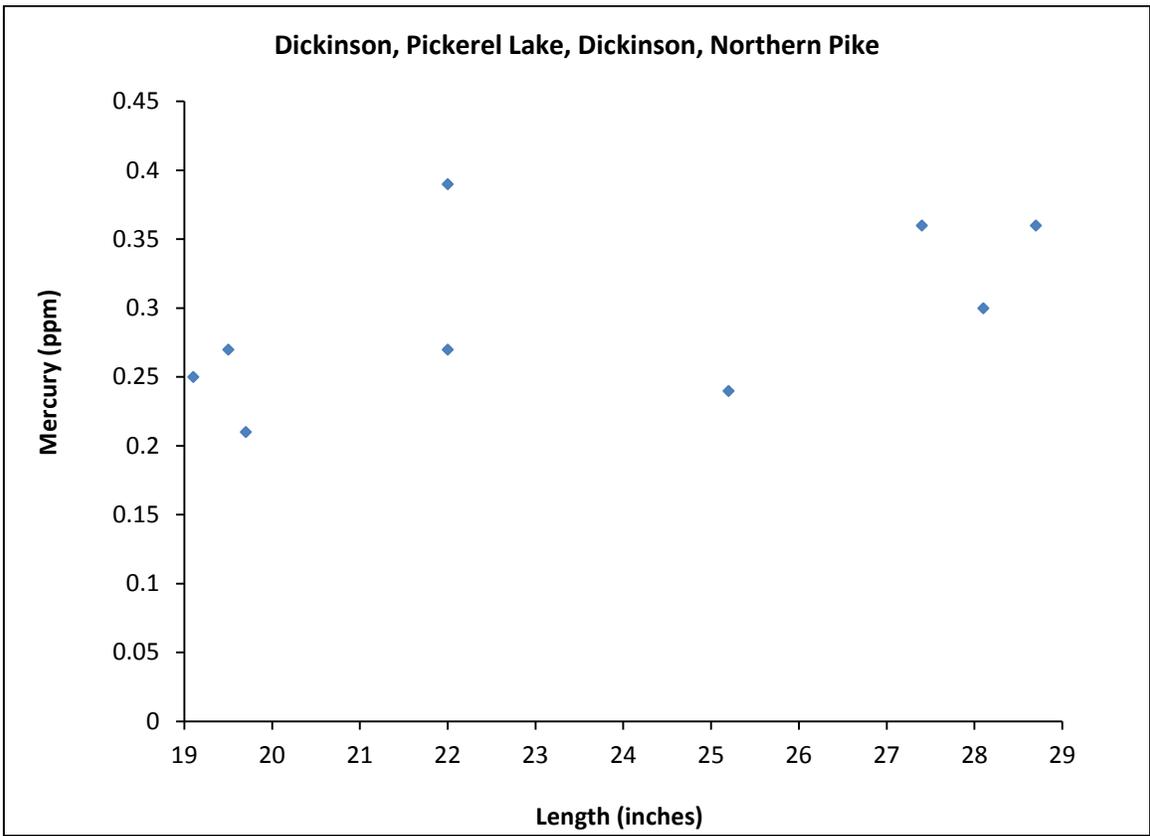
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	1987	9	19.1	24	25.2	28.7
Datasets available: 1987						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	4	0.32	0.24	0.36	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.288	0.308				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Northern pike from Pickerel Lake are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide guidelines apply: No one should eat more than 2 meals per month of northern pike smaller than 30 inches or more than 1 meal per month of those fish larger than 30 inches.



Walleye

Silver Lake

Dickinson County

Hg Analysis:

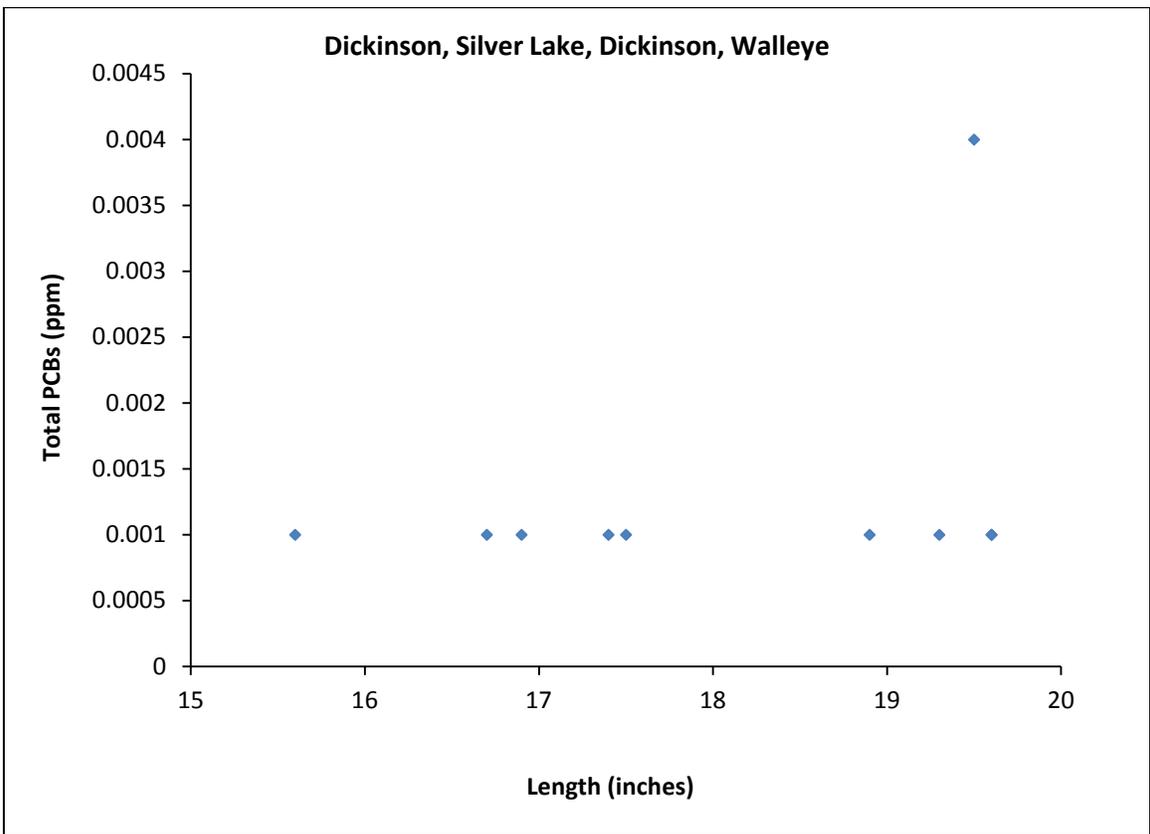
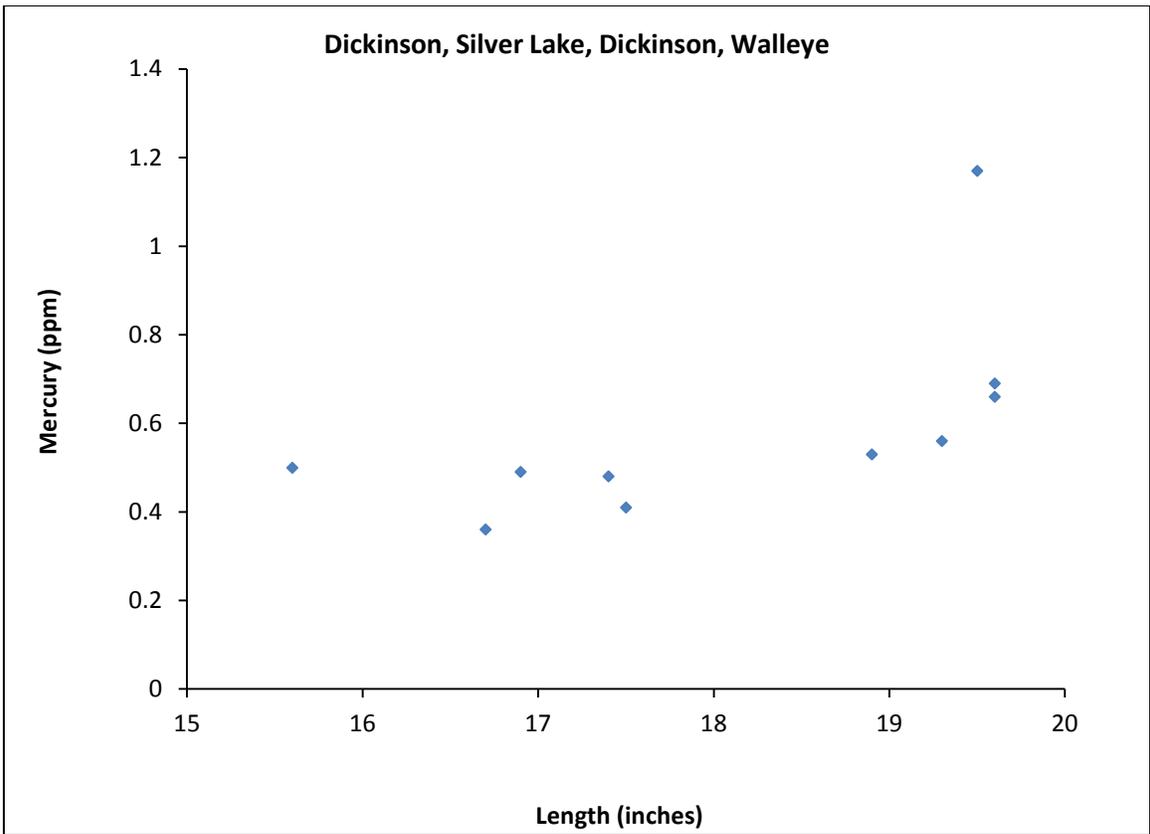
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2002	2002	10	15.6	15	15.6	19.6
Datasets available: 2002						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.58	0.36	1.17	0.75	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.375	0.460				

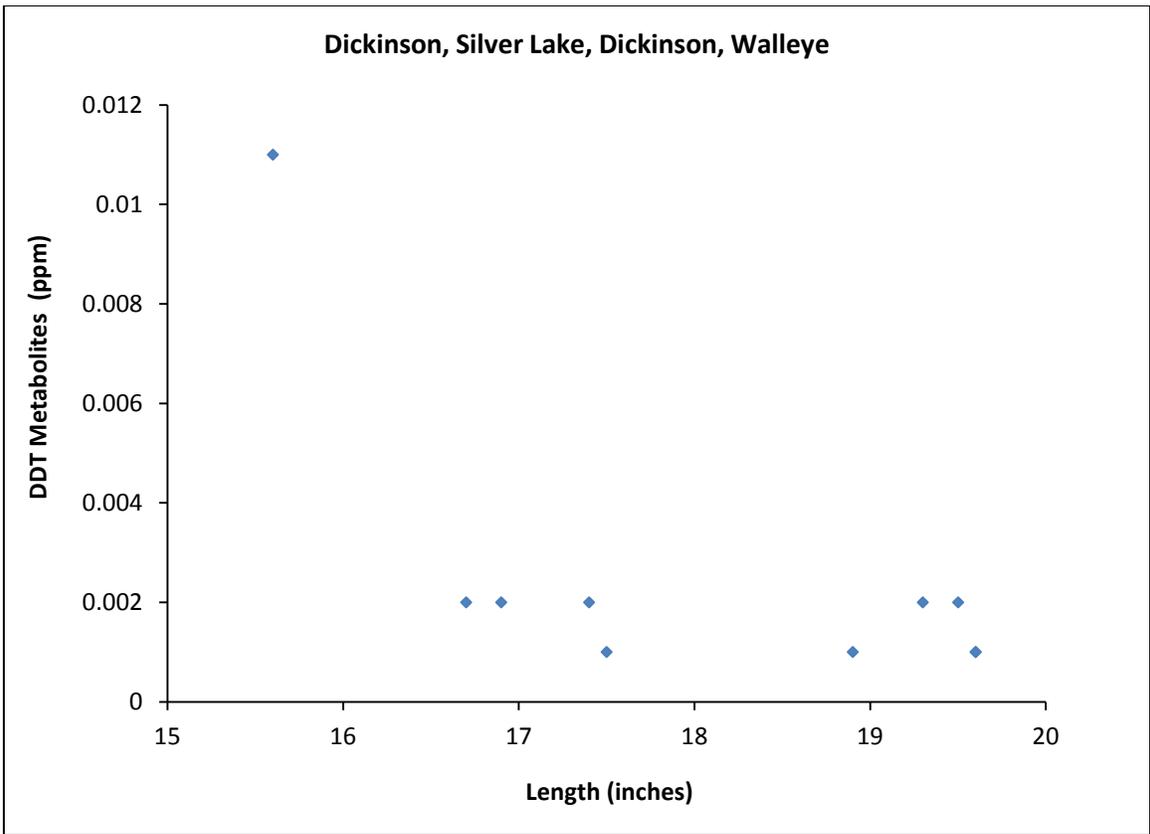
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2002	2002	10	15.6	15	15.6	19.6
Datasets available: 2002						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	0.001	0.001	0.004	0.002	16
DDT	10	0.003	0.001	0.011	0.004	16
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.114	0.114				
DDT	0.420	0.468				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Walleye from Silver Lake are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Silver Lake walleye less than 20 inches or more than 6 meals per year of those fish larger than 20 inches due to mercury. Statewide length break applied as the size of the fish was limited.





Hg Analysis:

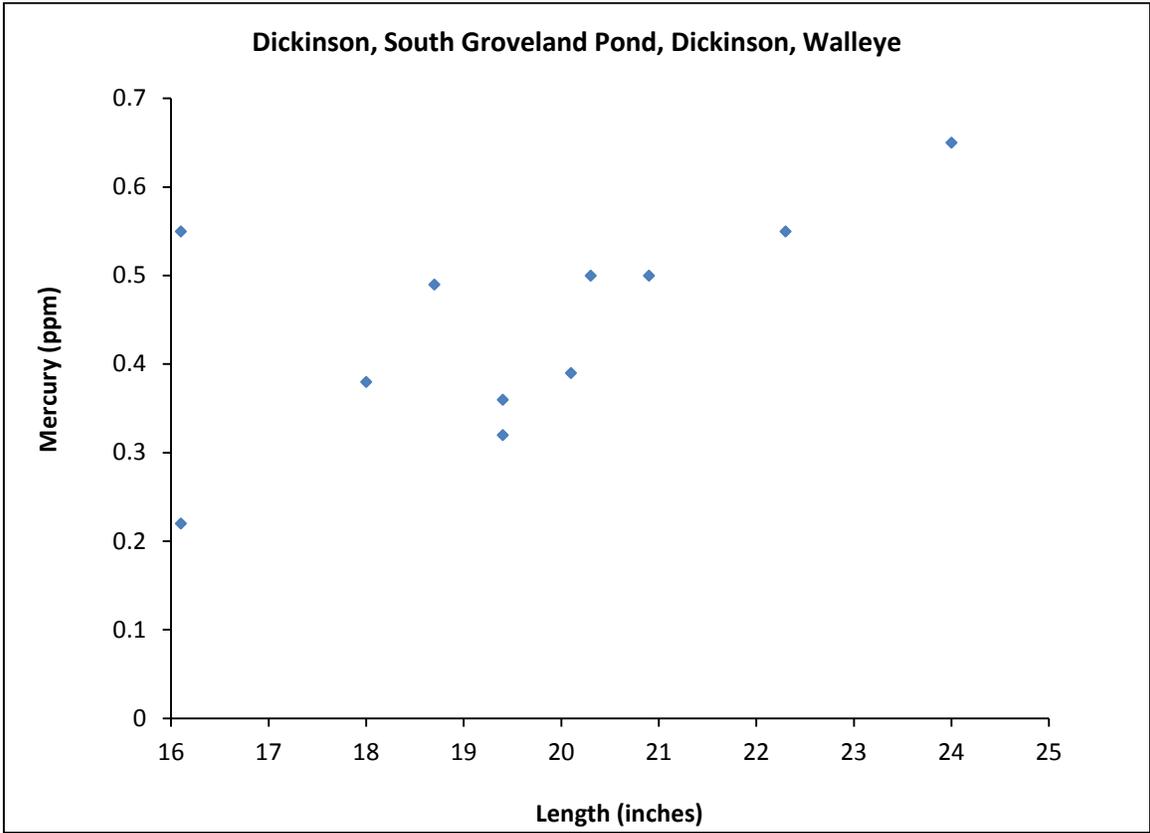
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2003	2003	11	16.1	15	16.1	24
Datasets available: 2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	11	0.45	0.22	0.65	0.53	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.369	0.357				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Walleye from South Groveland Pond are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of South Groveland Pond walleye smaller than 20 inches or more than 1 meal per month of those fish larger than 20 inches due to mercury. Statewide length break applied as the size of the fish was limited.



Largemouth Bass

Squaw Lake

Dickinson & Marquette Counties

Hg Analysis:

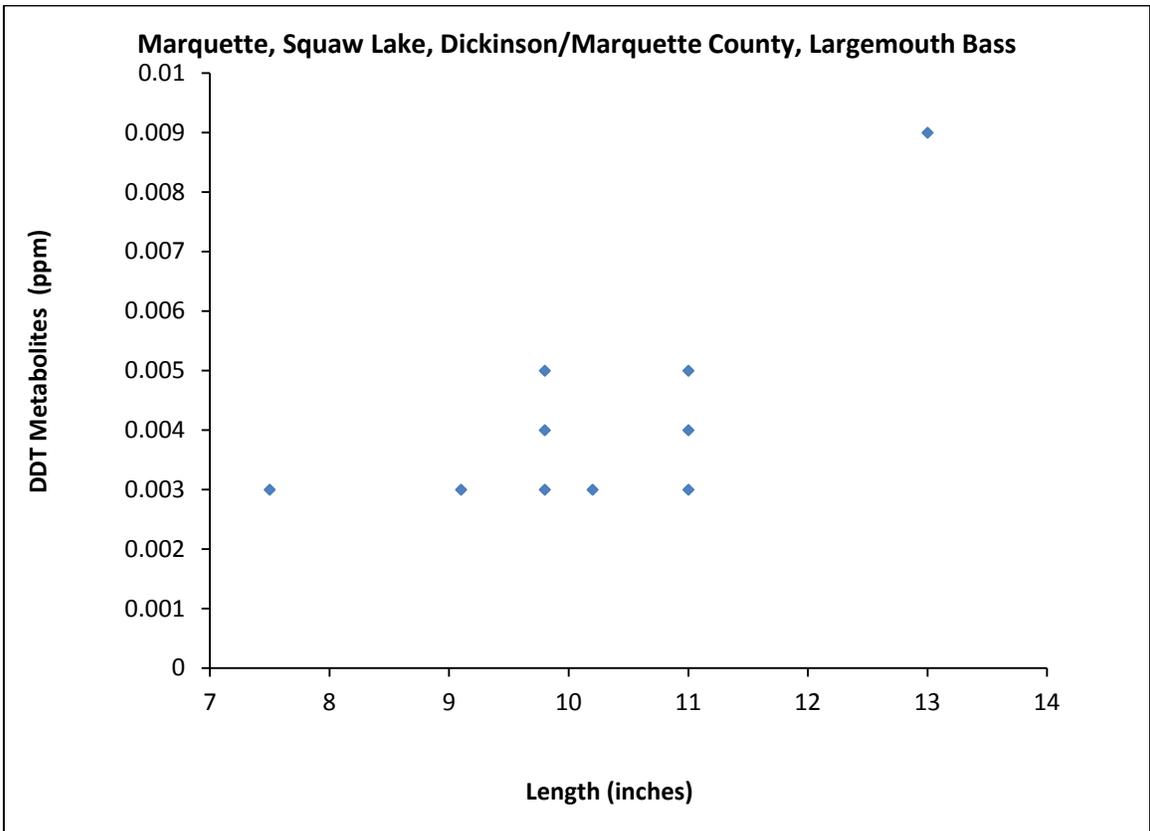
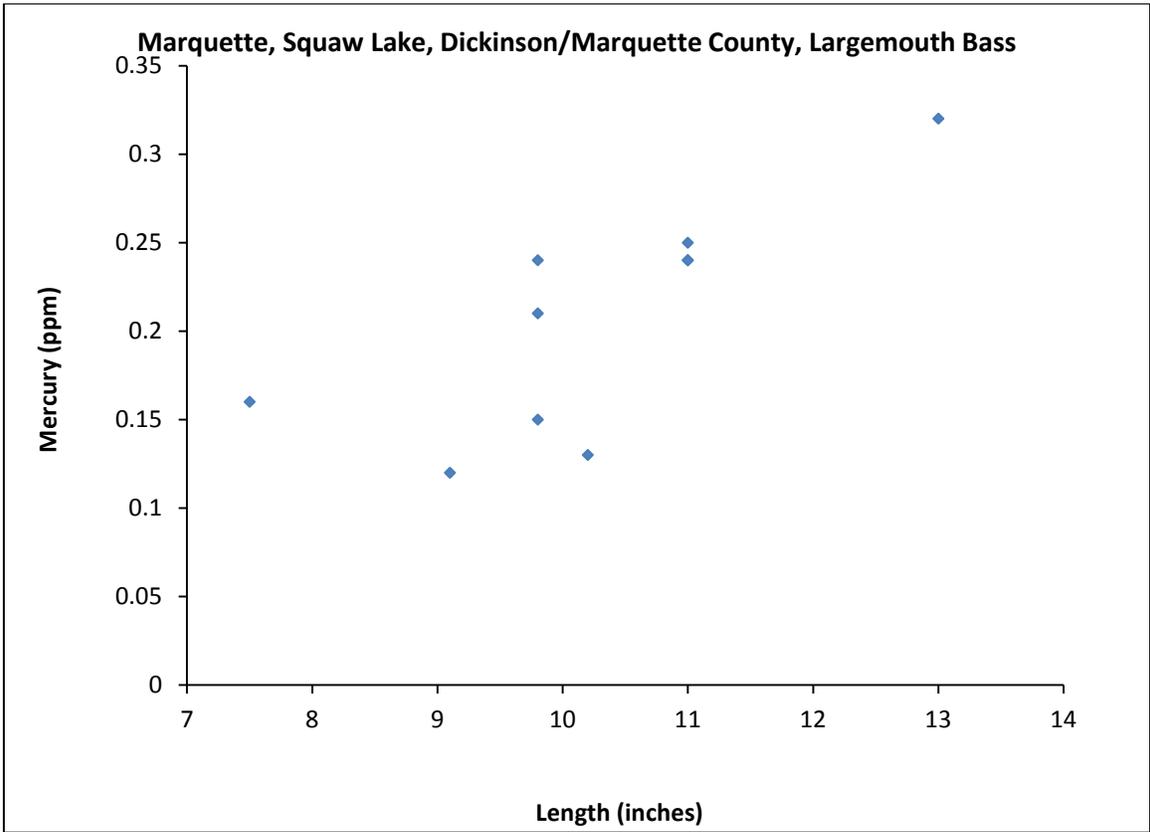
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of All Samples	
Earliest	Most Recent				Min	Max
1993	1993	10	7.5	14	7.5	13
Datasets available: 1993						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.21	0.12	0.32	0.25	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.584	0.498				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1993	1993	10	7.5	14	7.5	13
Datasets available: 1993						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	ND	--	--	--	--
DDT	10	0.004	0.003	0.009	0.01	16
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	0.533	0.510				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4*

Existing Advisory: Squaw Lake largemouth bass are covered under the statewide mercury advisory.

Recommendation: Statewide guidelines apply: No one should eat more than 2 meals per month of Squaw Lake largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches. *The size range of fish in this sample set is limited due to sublegal lengths and is not used to set the guideline.



Rainbow Trout

Squaw Lake

Dickinson & Marquette Counties

Hg Analysis:

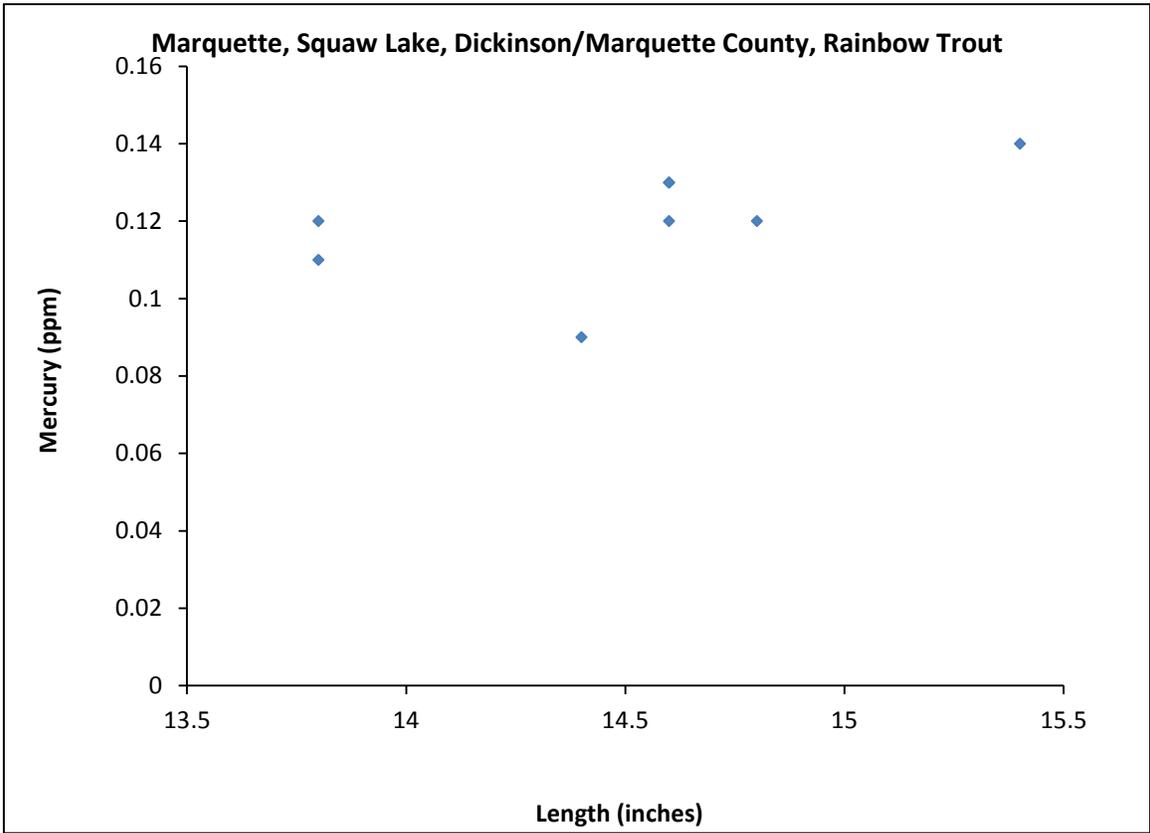
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1989	8	13.8	12	13.8	15.4
Datasets available: 1989						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	8	0.12	0.09	0.14	0.13	8
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.293	0.246				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						8

Existing Advisory: Squaw Lake rainbow trout have no existing advisory.

Recommendation: No one should eat more than 8 meals per month of Squaw Lake rainbow trout due to mercury.



Splake

Squaw Lake

**Dickinson & Marquette
Counties**

Hg Analysis:

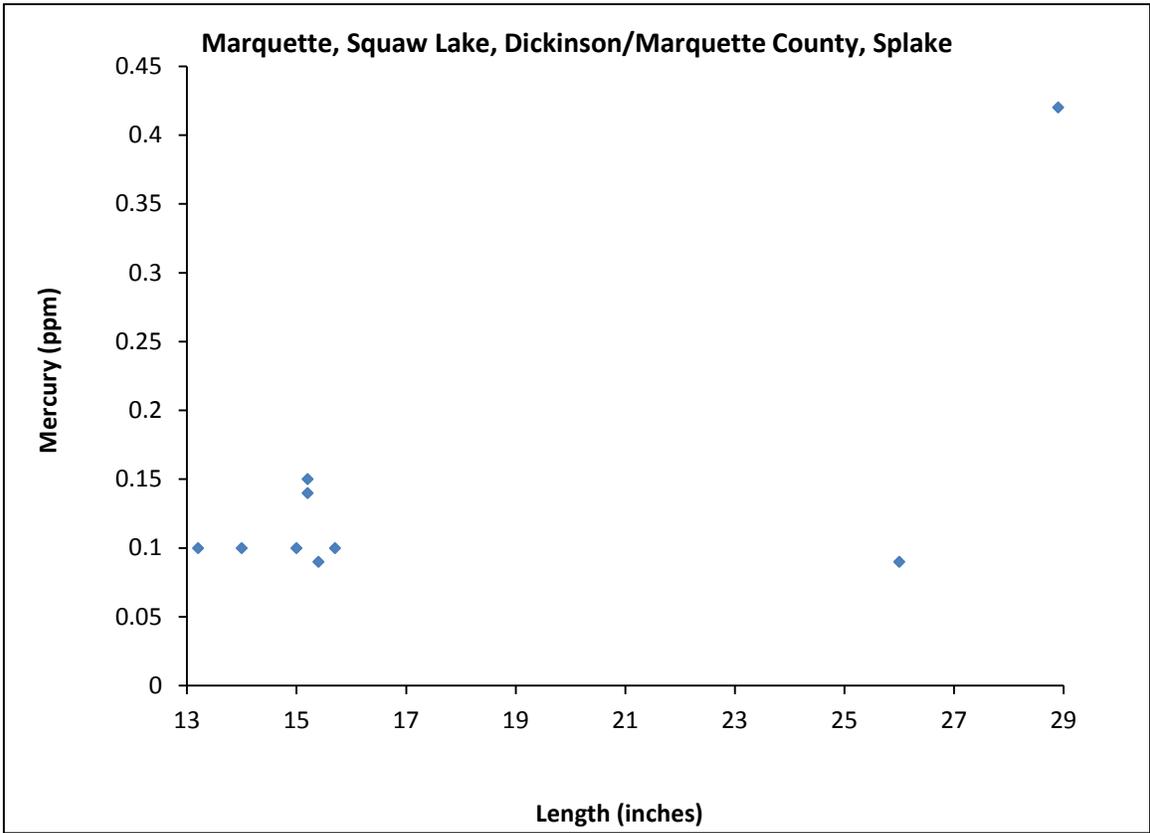
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1989	9	13.2	12	13.2	28.9
Datasets available: 1989						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	9	0.14	0.09	0.42	0.22	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.480	0.380				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Squaw Lake splake have no existing advisory.

Recommendation: No one should eat more than 4 meals per month of Squaw Lake splake due to mercury.



White Sucker

Squaw Lake

**Dickinson & Marquette
Counties**

Hg Analysis:

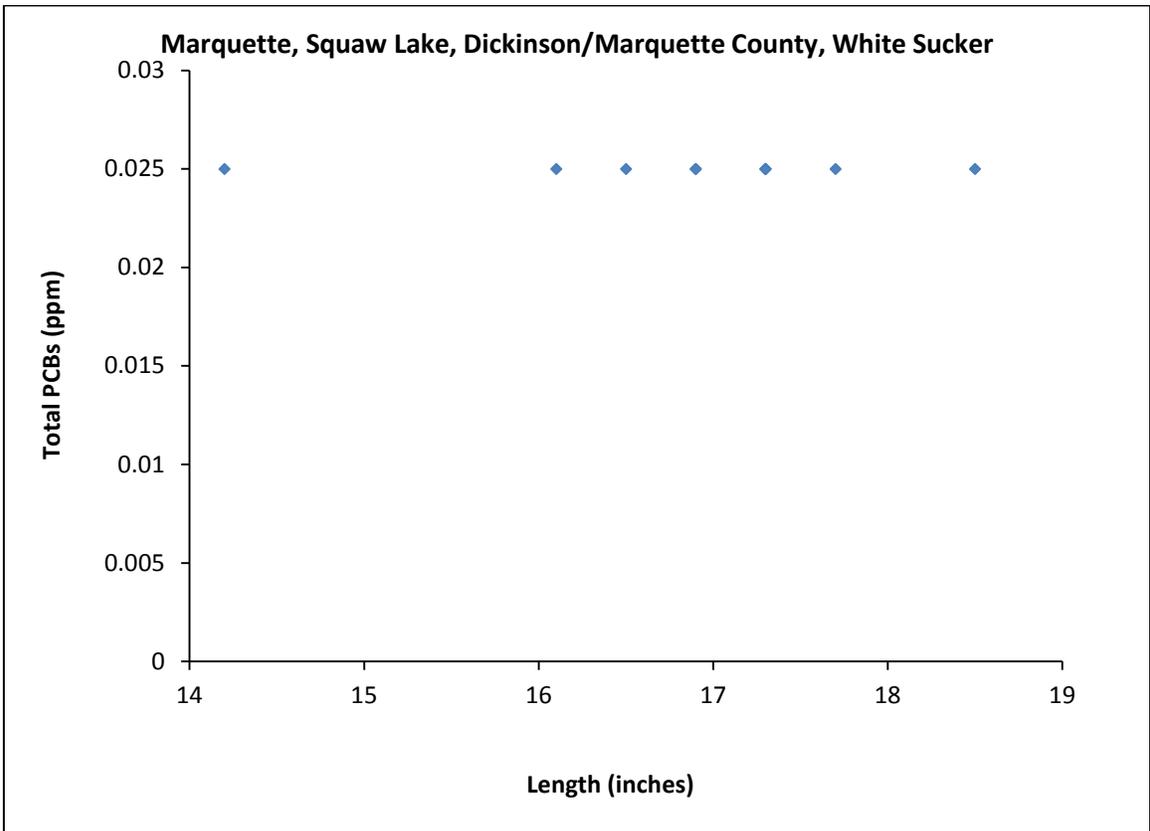
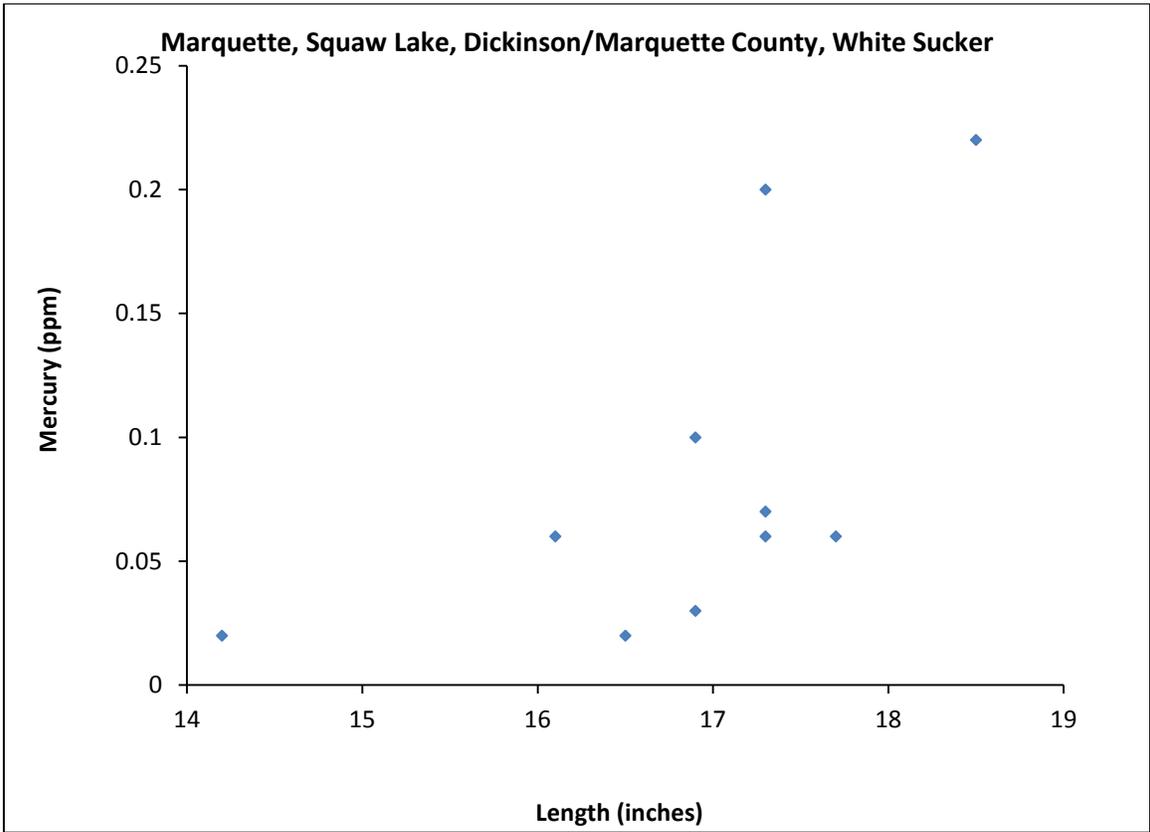
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1993	1993	10	14.2	na	14.2	18.5
Datasets available: 1993						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.08	0.02	0.22	0.13	8
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.376	0.491				

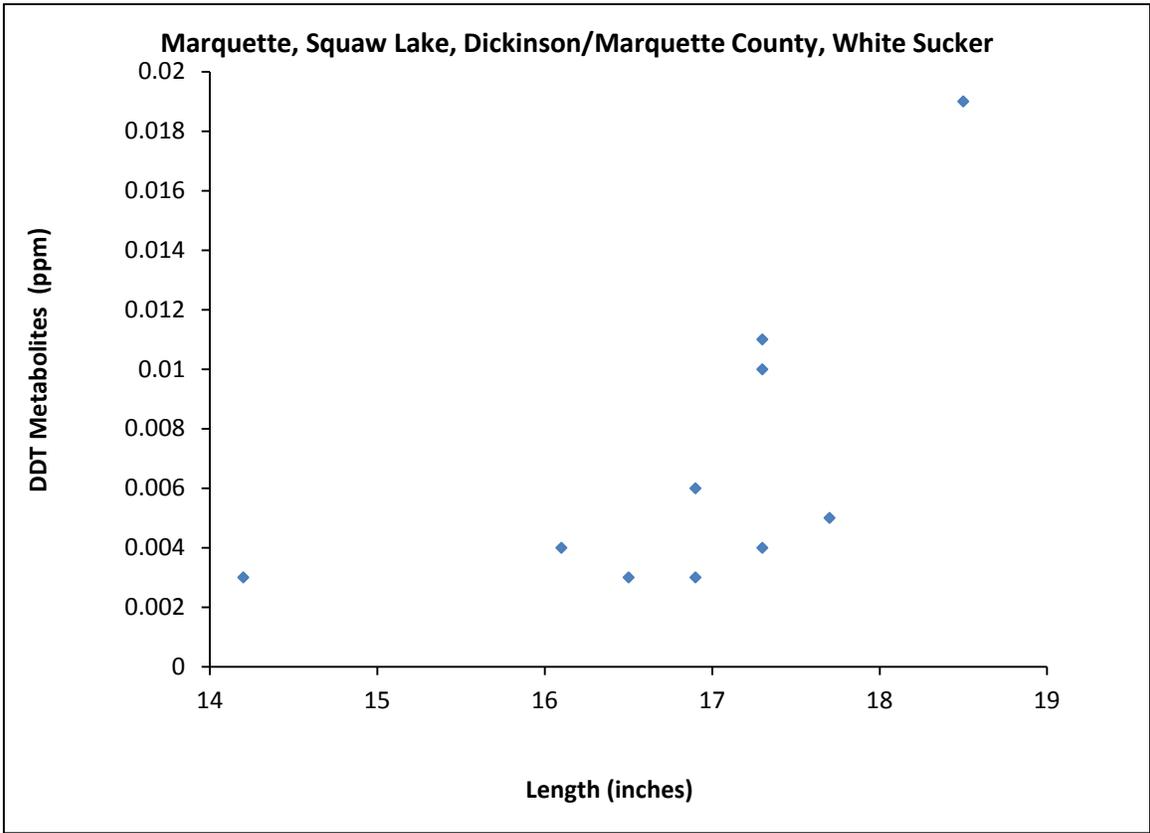
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1993	1993	10	14.2	na	14.2	18.5
Datasets available: 1993						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	ND	0.025	0.025	--	--
DDT	10	0.007	0.003	0.019	0.01	16
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.000	0.000				
DDT	0.409	0.452				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						8

Existing Advisory: Squaw Lake suckers have no existing advisory.

Recommendation: No one should eat more than 8 meals per month of Squaw Lake sucker due to mercury.





Yellow Perch

Squaw Lake

**Dickinson & Marquette
Counties**

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1989	5	9.1	na	9.1	10.8
Datasets available: 1989						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.15	0.13	0.17	0.17	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.783*	0.793*				

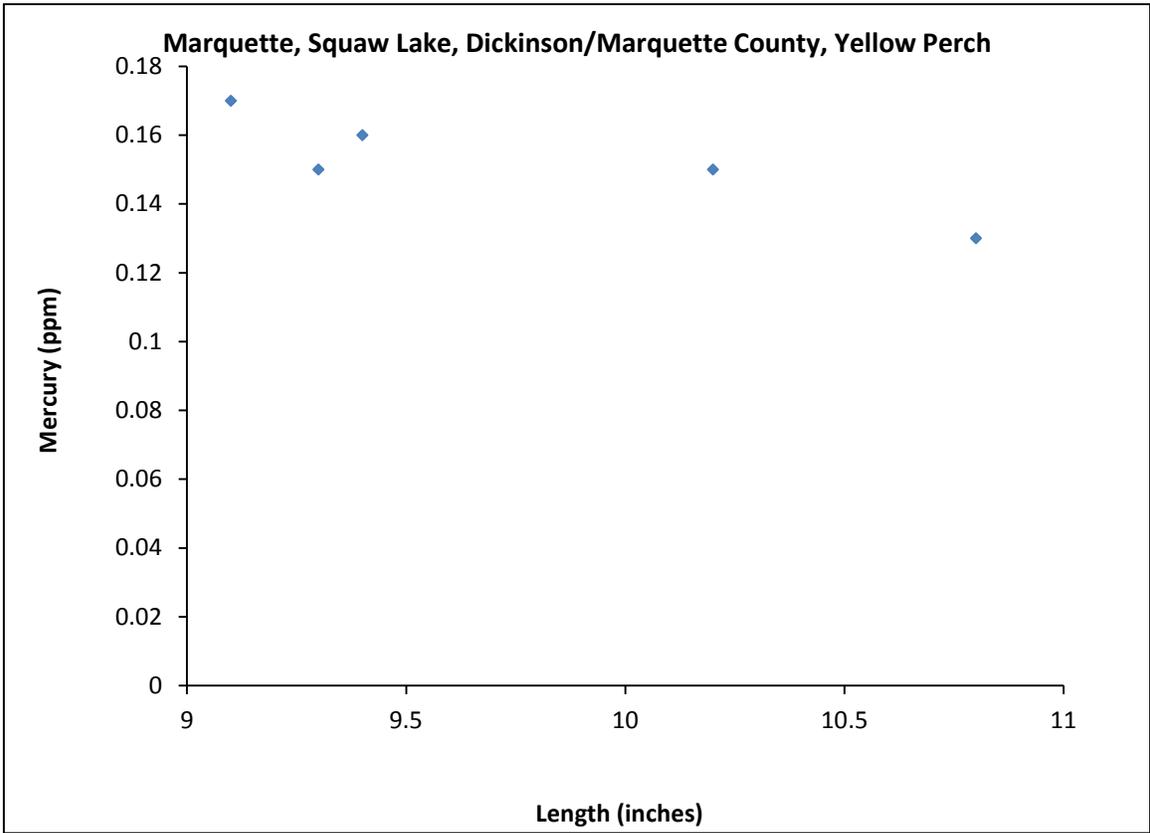
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

* - regressions have negative slope

Existing Advisory: Squaw Lake yellow perch are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 4 meals per month of Squaw Lake yellow perch due to mercury.



Escanaba River Delta and Marquette Counties

Northern Pike

**Escanaba River
Between Dams 1 and 2**

Delta County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1993	21	22.4	na*	23.6	30.3
Datasets available: 1988, 1993						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	19	0.35	0.08	0.82	0.44	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.219	0.155				

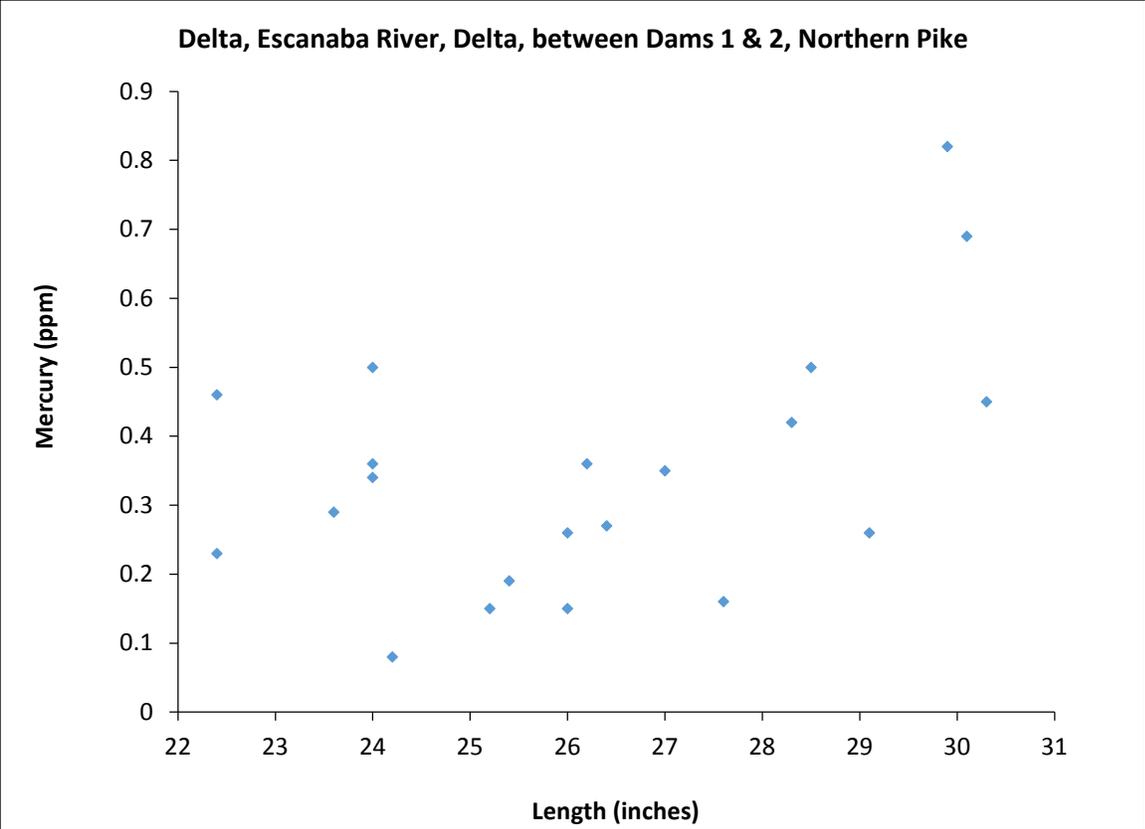
Organics Analysis:

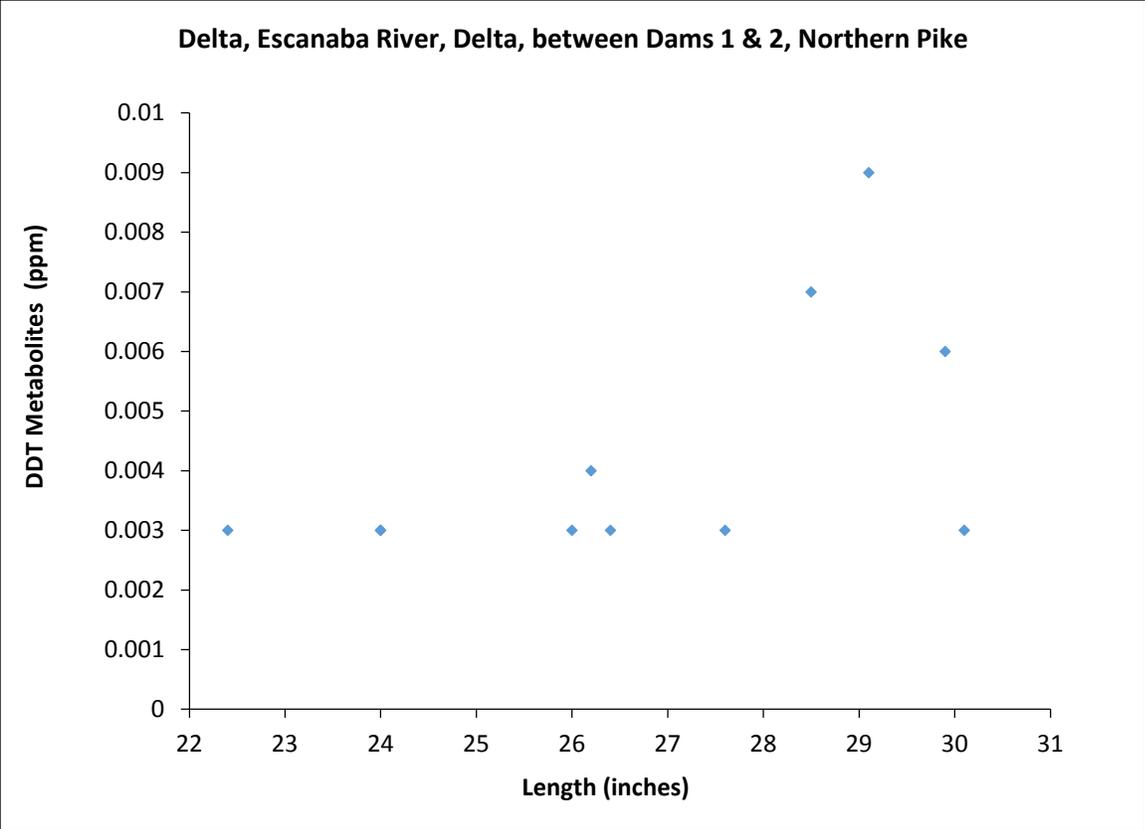
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	10	22.4	na*	23.6	30.3
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	ND	--	--	--	--
DDT	10	0.004	0.003	0.007	0.01	16
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	0.312	0.333				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

* - there is no minimum size limit on northern pike from the Escanaba River upstream of the first dam

Existing Advisory: Northern pike from the Dam 1 impoundment of the Escanaba River are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of northern pike from the first Escanaba River Dam impoundment larger than 30 inches or more than 2 meals per month of those fish smaller 30 inches in length due to mercury. Statewide length break applied.





White Sucker

**Escanaba River
Between Dams 1 and 2**

Delta County

Hg Analysis:

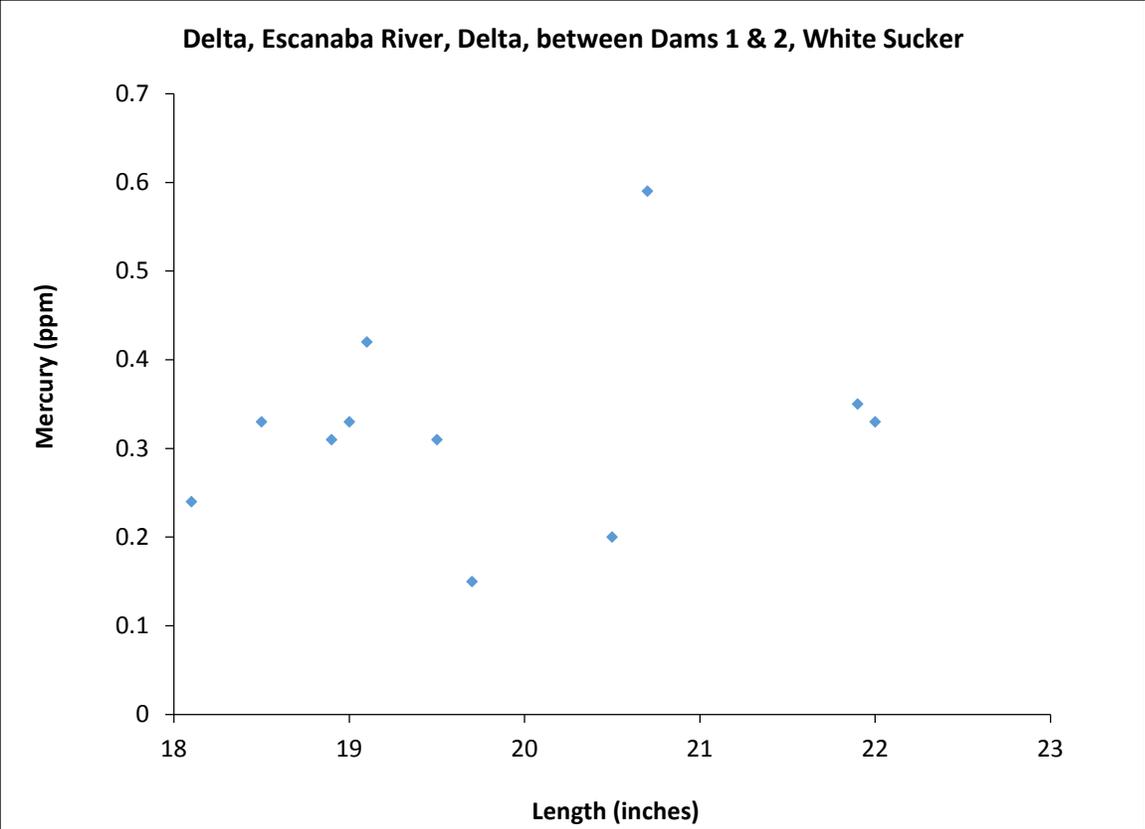
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1990	11	18.1	na	18.1	22
Datasets available: 1988, 1990						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	11	0.32	0.15	0.59	0.40	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.044	0.031				

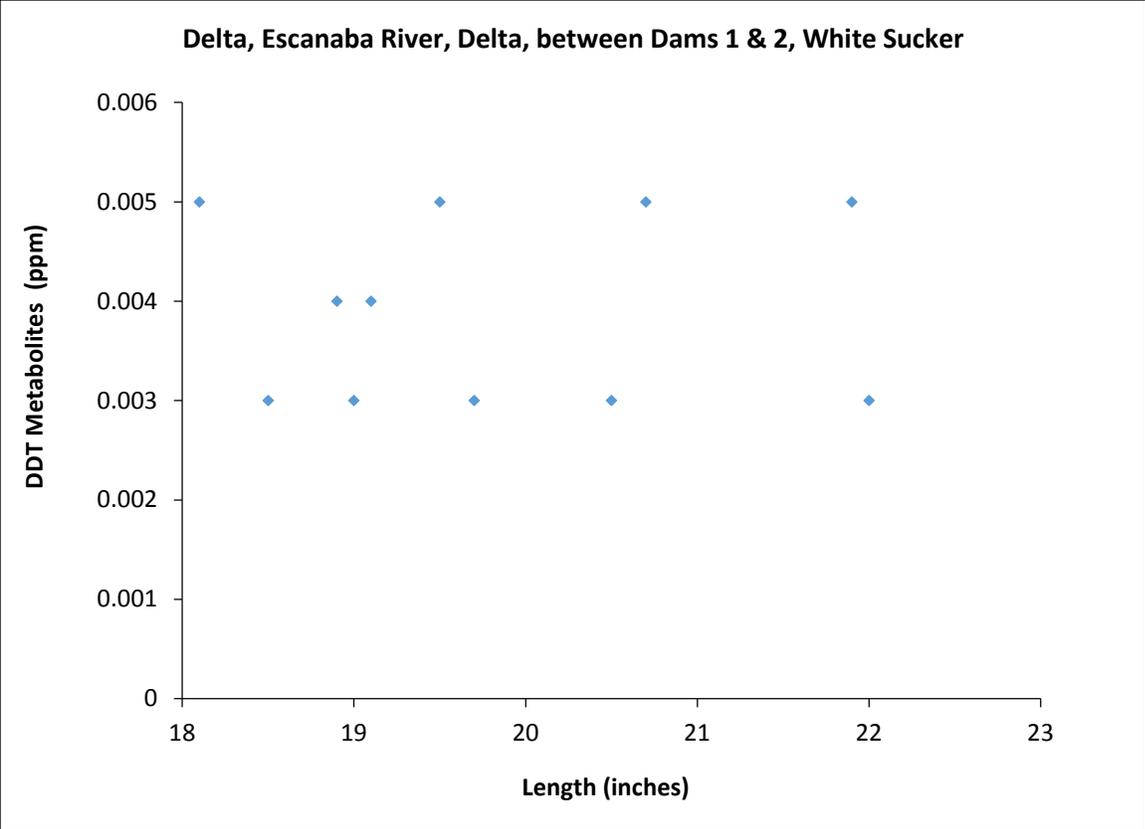
Organics Analysis:

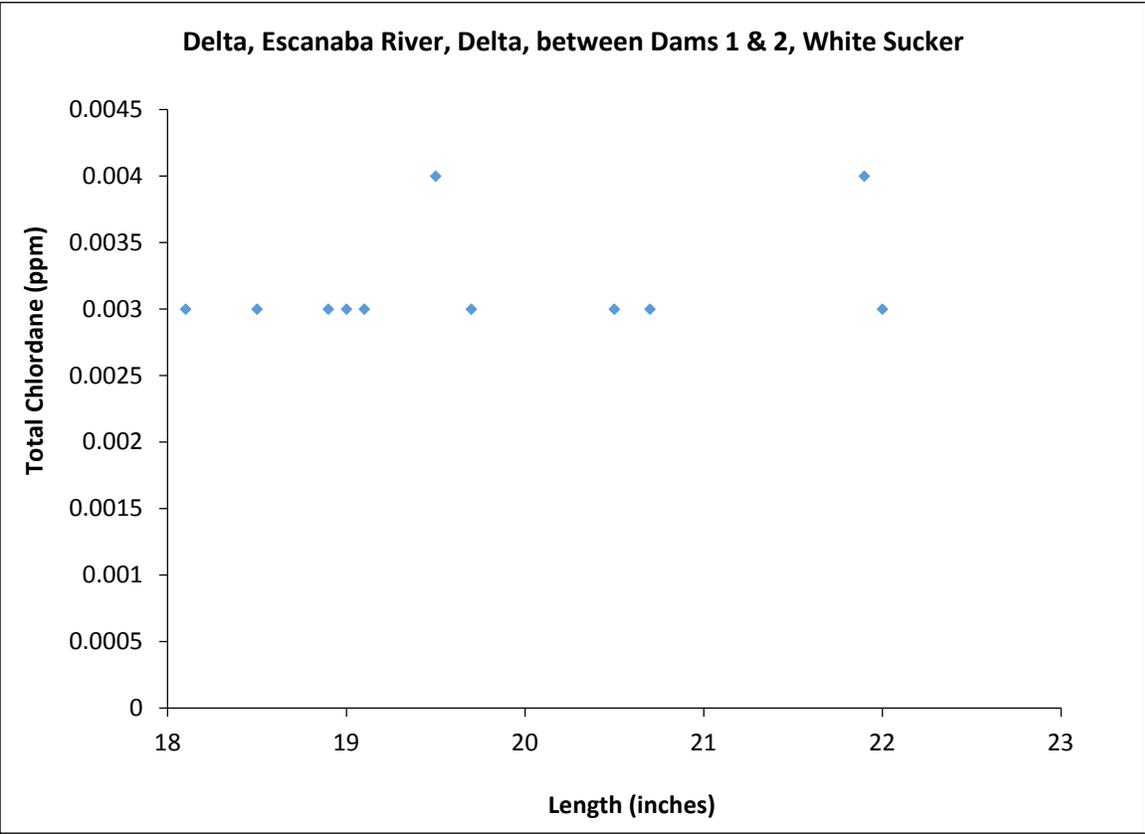
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1990	11	18.1	na	18.1	22
Datasets available: 1988, 1990						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	11	ND	--	--	--	--
DDT	11	0.004	0.003	0.005	0.005	16
Chlordane	11	0.003	0.003	0.004	0.004	--
Toxaphene	11	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	0.001	0.000				
Chlordane	0.113	0.113				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: There are no current consumption advisories for Escanaba River white sucker.

Recommendation: No one should eat more than 2 meals per month of sucker from the first Escanaba River Dam impoundment due to mercury.







Yellow Perch

**Escanaba River
Between Dams 1 and 2**

Delta County

Hg Analysis:

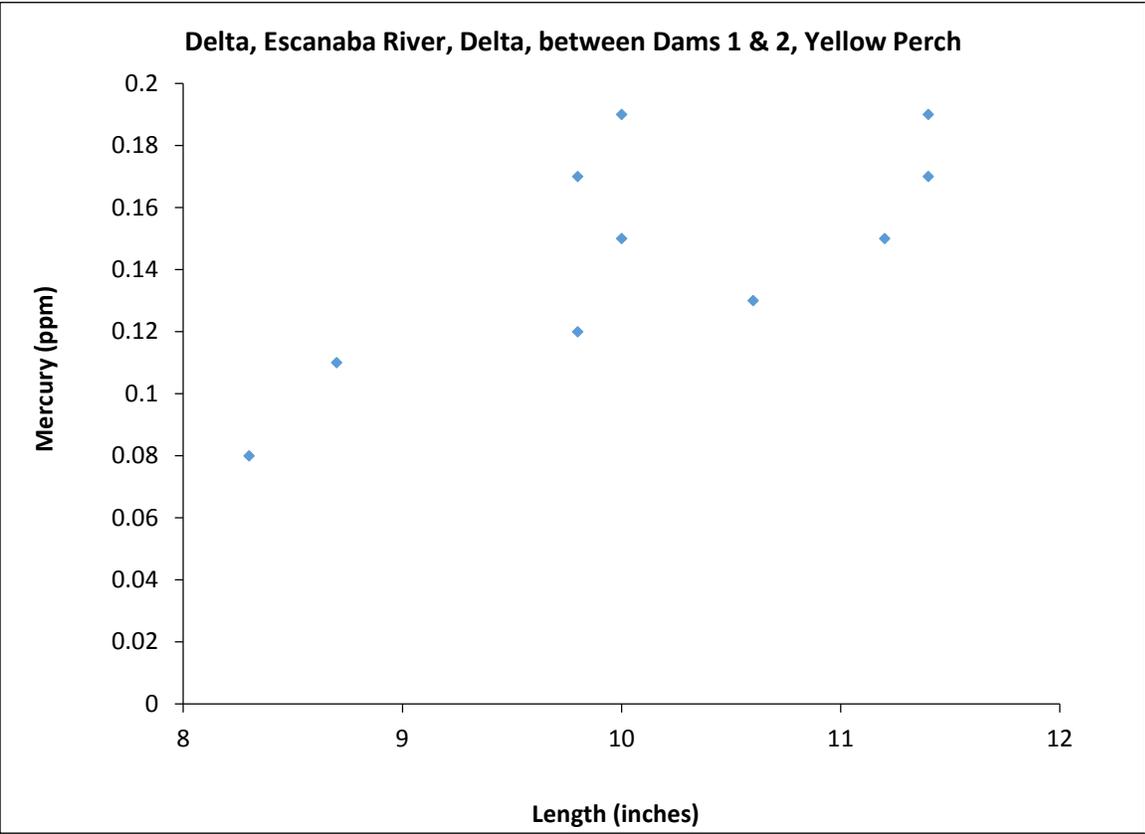
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
1993	1993	10	8.3	na	8.3	11.4	
Datasets available: 1988, 1990							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)		
Mercury	10	0.15	0.08	0.19	0.17	4	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury	0.524	0.572					

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
--	--	--	--	--	--	--	
Datasets available: --							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)		
PCB	0	na	--	--	--	--	
DDT	0	na	--	--	--	--	
Chlordane	0	na	--	--	--	--	
Toxaphene	0	na	--	--	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	--	--					
DDT	--	--					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							4

Existing Advisory: Yellow perch from the Dam 1 impoundment of the Escanaba River are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 4 meals per month of yellow perch from the first Escanaba River Dam impoundment due to mercury.



Carp

**Escanaba River
River Mouth**

Delta County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
1993	1993	5	24.4	na	24.4	26.8		
Datasets available:		1993						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
Mercury	1*	0.29	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	--	--						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
1993	1993	5	24.4	na	24.4	26.8		
Datasets available:		1993						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
PCB	1	2.840	--	--	--	--		
DDT	1	0.377	--	--	--	--		
Chlordane	1	0.050	--	--	--	--		
Toxaphene	1	ND	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
						Final meal category based on UCL:	--	

* - 1 composite sample of 5 individual fillets

Existing Advisory: There are no current consumption advisories for Escanaba River carp.

Recommendation: Composite samples are not suitable for the advisory evaluation. The advice for carp taken from the river mouth of the Escanaba River (downstream of the first dam) is the same as for Little Bay De Noc: No one should eat carp from Lake Michigan, Green Bay, or Little Bay De Noc, due to elevated concentrations of PCBs. Mercury and DDT would cause advisories.

Walleye

**Escanaba River
River Mouth**

Delta County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	1986	10	15.7	15	15.7	21.7
Datasets available: 1986						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.23	0.11	0.31	0.27	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.741	0.799				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	1986	10	15.7	15	15.7	21.7
Datasets available: 1986						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	0.35	0.13	0.85	0.49	Limited
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.552	0.745				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						Limited*

Existing Advisory: There are no current consumption advisories for Escanaba River walleye.

Recommendation: The quality of this dataset is limited due to the age of the data and is not used to set a guideline. *The advice for walleye taken from the Escanaba River downstream of the first dam is the same as for Little Bay De Noc: No one should eat more than 2 meals per month of Lake Michigan walleye smaller than 18 inches due to mercury and PCBs. Sensitive populations should not eat Lake Michigan walleye larger than 18 inches due to PCBs. Healthy adults should limit consumption to no more than 1 or 2 meals per year of walleye larger than 18 inches due to elevated concentrations of PCBs. Mercury and DDT would cause advisories.

Note: See Lake Michigan Recommendations summary for details.

Rock Bass

**Escanaba River
Dam 3 (Impoundment)**

Delta County

Hg Analysis:

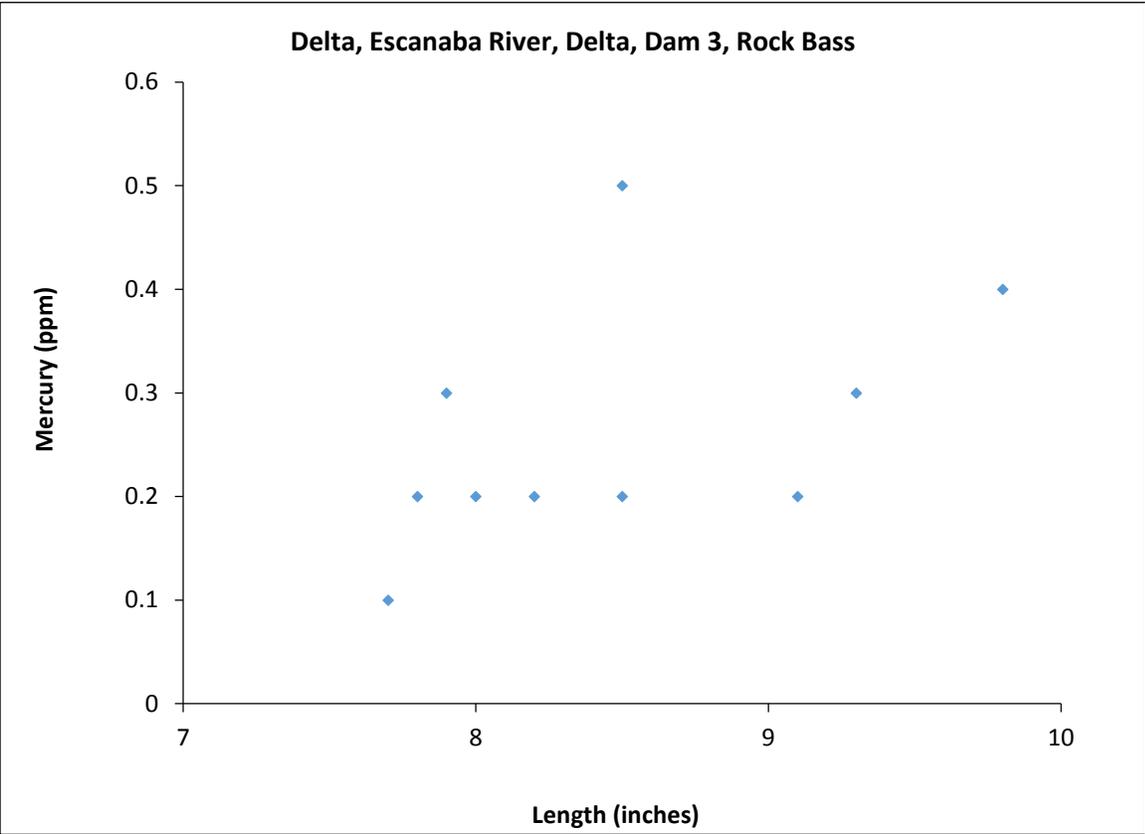
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
1985	1985	10	7.7	na	7.7	9.8	
Datasets available: 1985							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)		
Mercury	10	0.26	0.10	0.50	0.34	2	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury	0.247	0.299					

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
--	--	0					
Datasets available: --							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)		
PCB	0	na	--	--	--	--	
DDT	0	na	--	--	--	--	
Chlordane	0	na	--	--	--	--	
Toxaphene	0	na	--	--	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	--	--					
DDT	--	--					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							2

Existing Advisory: Escanaba River (Dam 3 Impoundment) rock bass greater than 9 inches in length are covered under the statewide mercury consumption advisory.

Recommendation: No one should eat more than 2 meals per month of rock bass from the Escanaba River between the Boney Falls Dam and Dam 3 due to mercury.



Rock Bass

Escanaba River

Marquette & Delta Counties

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		
Earliest	Most Recent				Min	Max	
1985	2014	20	5	na	5	9.8	
Datasets available: 1985, 2014							
Chemical	Sample Size (Legal)	Mean		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	20	0.18		0.06	0.50	0.24	4
Selenium	10	4.4		2.4	6.0	5.3	4
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury	0.405	0.503					
Selenium	0.202	0.220					

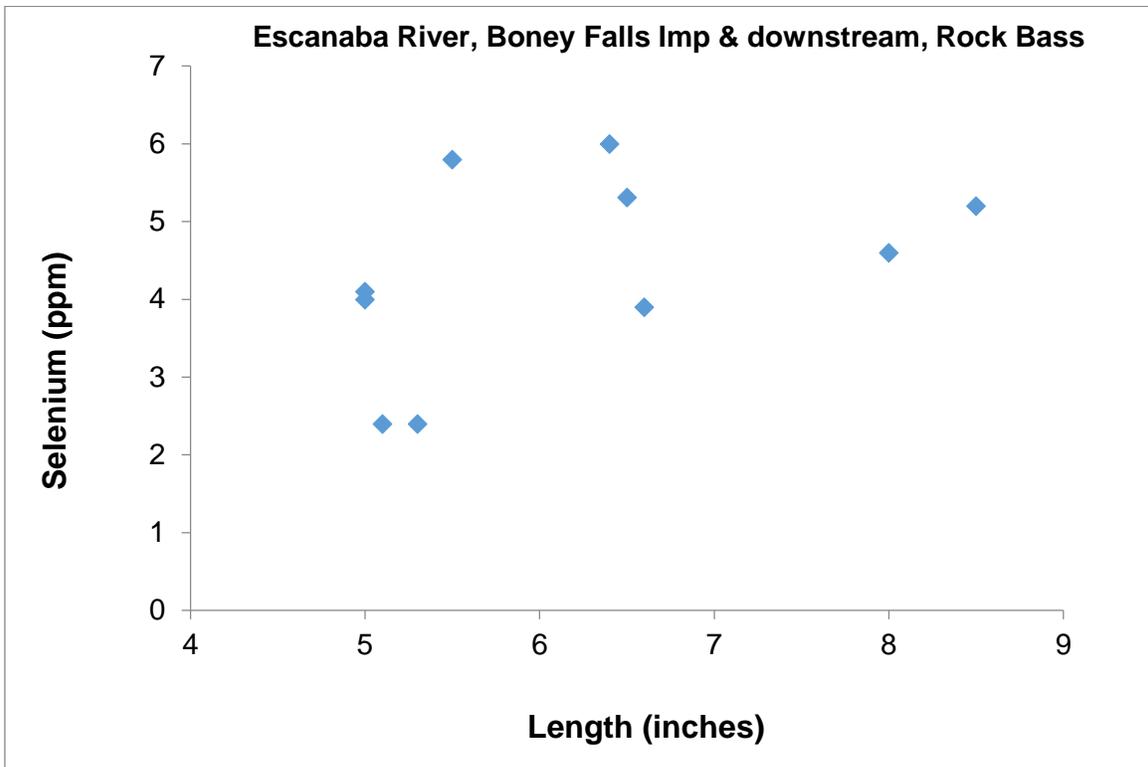
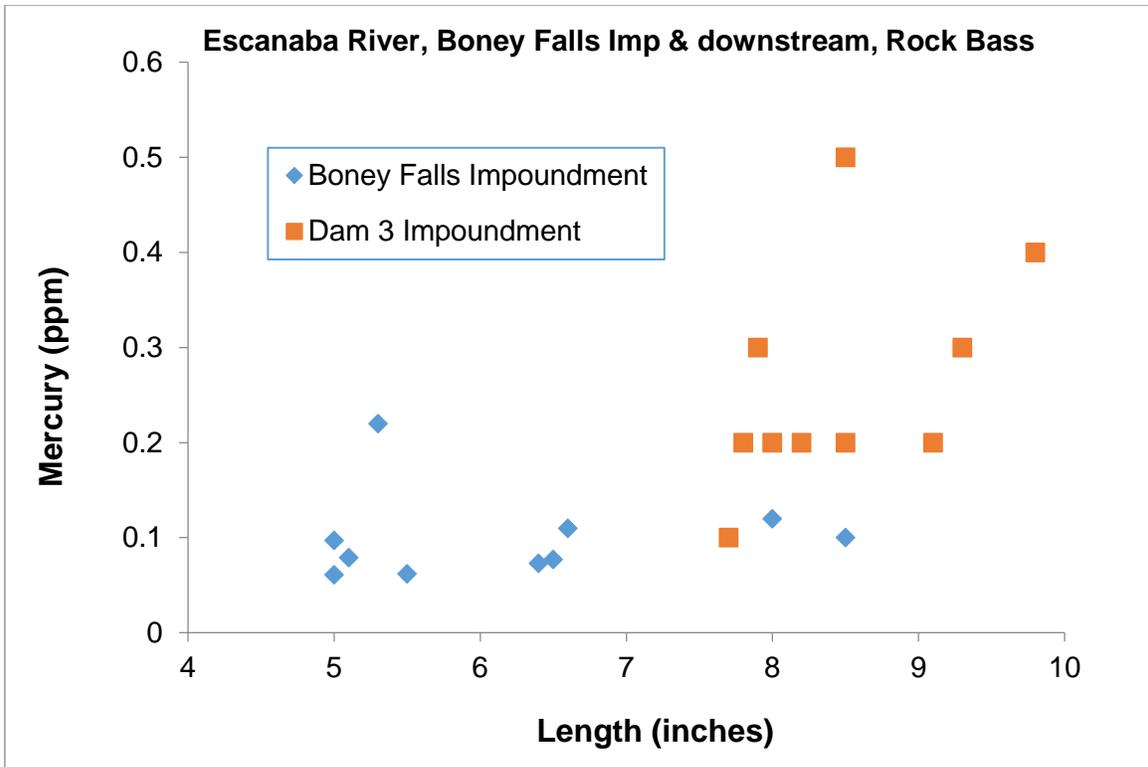
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		
Earliest	Most Recent				Min	Max	
2014	2014	10	5	na	5	8.5	
Datasets available: 2014							
Chemical	Sample Size (Legal)	Mean		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	ND		--	--	--	16
DDT	10	ND		--	--	--	16
Chlordane	10	ND		--	--	--	--
Toxaphene	10	ND		--	--	--	--
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	--	--					
DDT	--	--					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							4

Existing Advisory: No one should eat more than 2 meals per month of rock bass from the Escanaba River between the Boney Falls Dam and Dam 3 due to mercury.

Recommendation: No change is recommended. Additional data is needed before relaxing the guideline. Selenium would cause an advisory.

Note: Selenium concentrations have not differed substantially between species tested to date from the Escanaba River. Consider recommending that no one eat more than 4 meals per month of any species from the river due to selenium. This is the same as the least restrictive current advice; PCBs and/or mercury drive guidance otherwise.



Gogebic County

**Largemouth Bass & Smallmouth Bass
Hg & Se Analysis:**

Beatons Lake

Gogebic County

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	2008	15	12.2	14	14.4	20.2
Datasets available: 1987, 2008						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.64	0.40	0.84	0.81	1
Selenium	6	0.245	0.220	0.280	0.270	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.602	0.578				
Selenium	0.002	0.002				

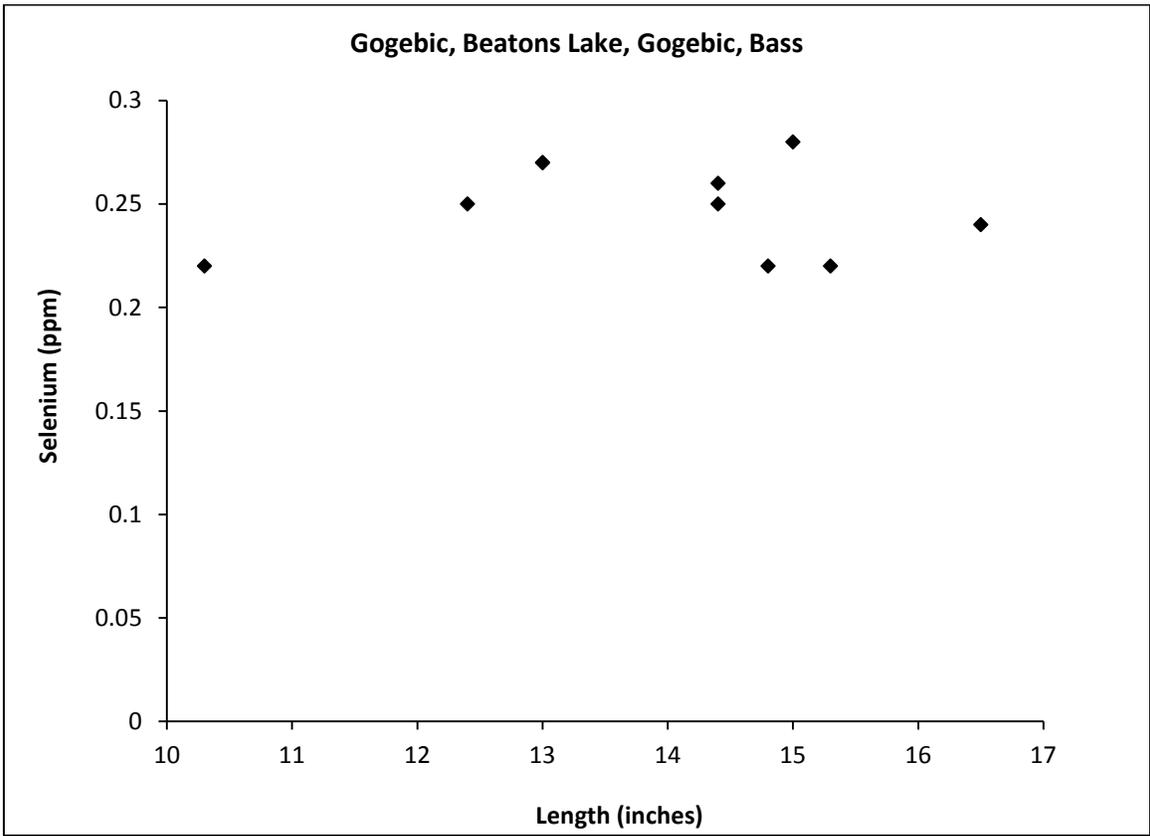
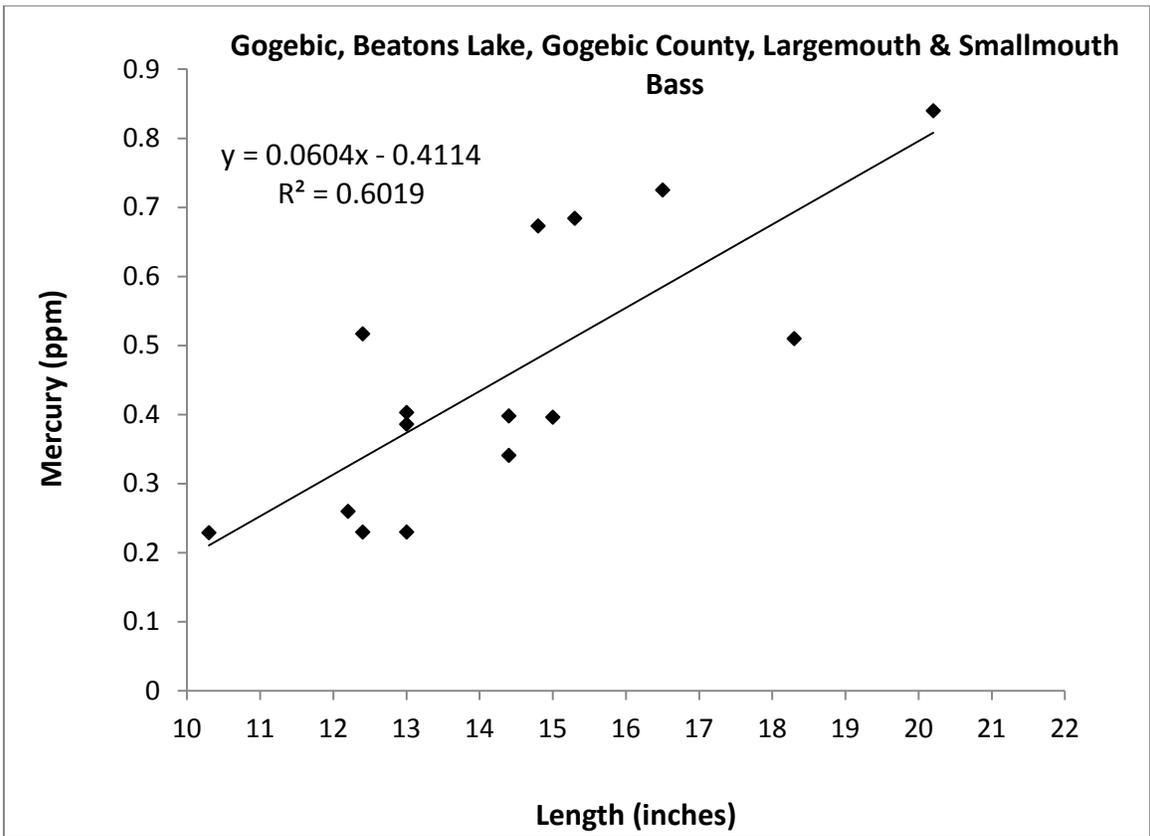
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Beatons Lake largemouth and smallmouth bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals a month of Beatons Lake largemouth or smallmouth bass less than 16 inches or 1 meal per month of largemouth or smallmouth bass greater than 16 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
12	0.31	2
13	0.37	2
14	0.43	2
15	0.49	2
16	0.56	1
18	0.68	1
20	0.8	1
22	0.92	1
24	1.04	1
<i>Shaded area denotes extrapolated estimates</i>		



Rainbow Trout

Beatons Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	1987	6	10	12	13.8	15.2
Datasets available: 1987						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.128	0.100	0.210	0.180	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.947	0.962				

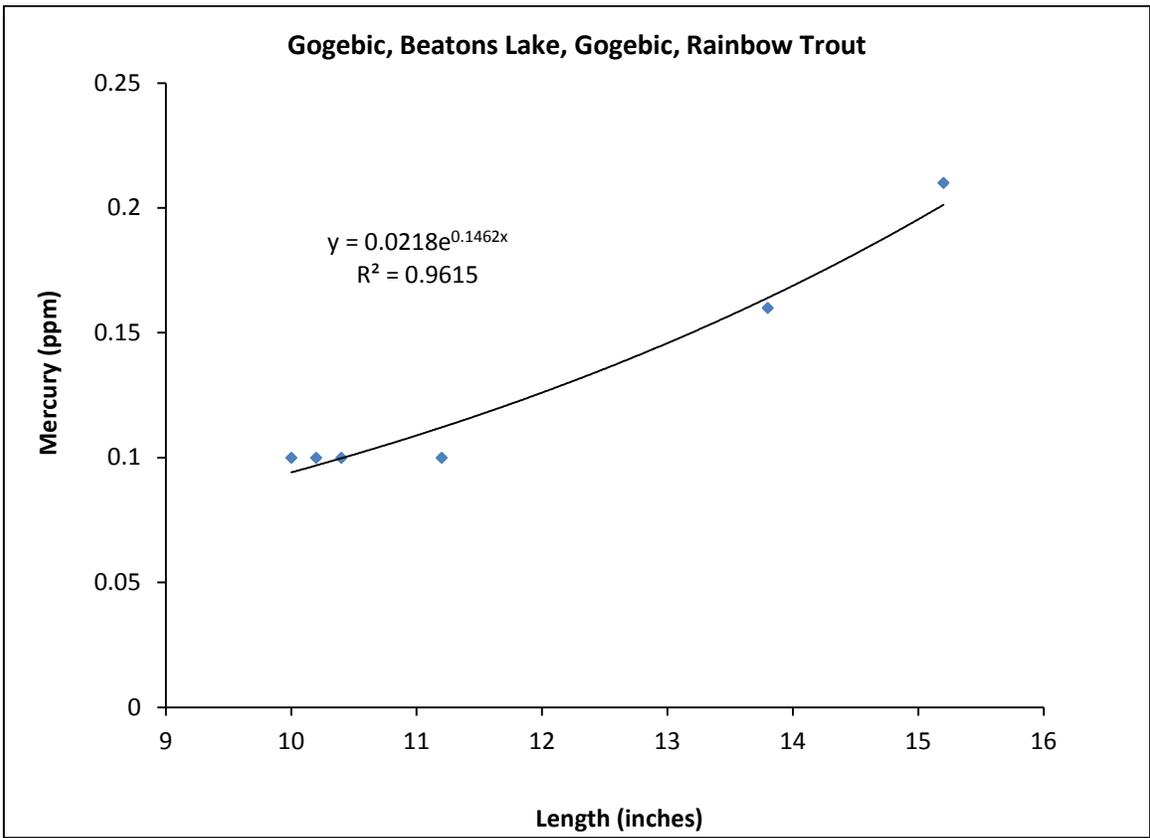
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: There is no existing advisory for rainbow trout in Beatons Lake.

Recommendation: No one should eat more than 4 meals per month of Beatons Lake rainbow trout due to mercury. Dataset is limited by the inclusion of sublegal samples and the age of the data. At that time, the detection limit for mercury was 0.10 ppm.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
10	0.094	8
11	0.109	8
12	0.126	8
13	0.146	4
14	0.169	4
15	0.195	4
16	0.226	4
17	0.262	4
18	0.303	2
<i>Shaded area denotes extrapolated estimates</i>		



Northern Pike

Bobcat Lake

Gogebic County

Hg & Se Analysis:

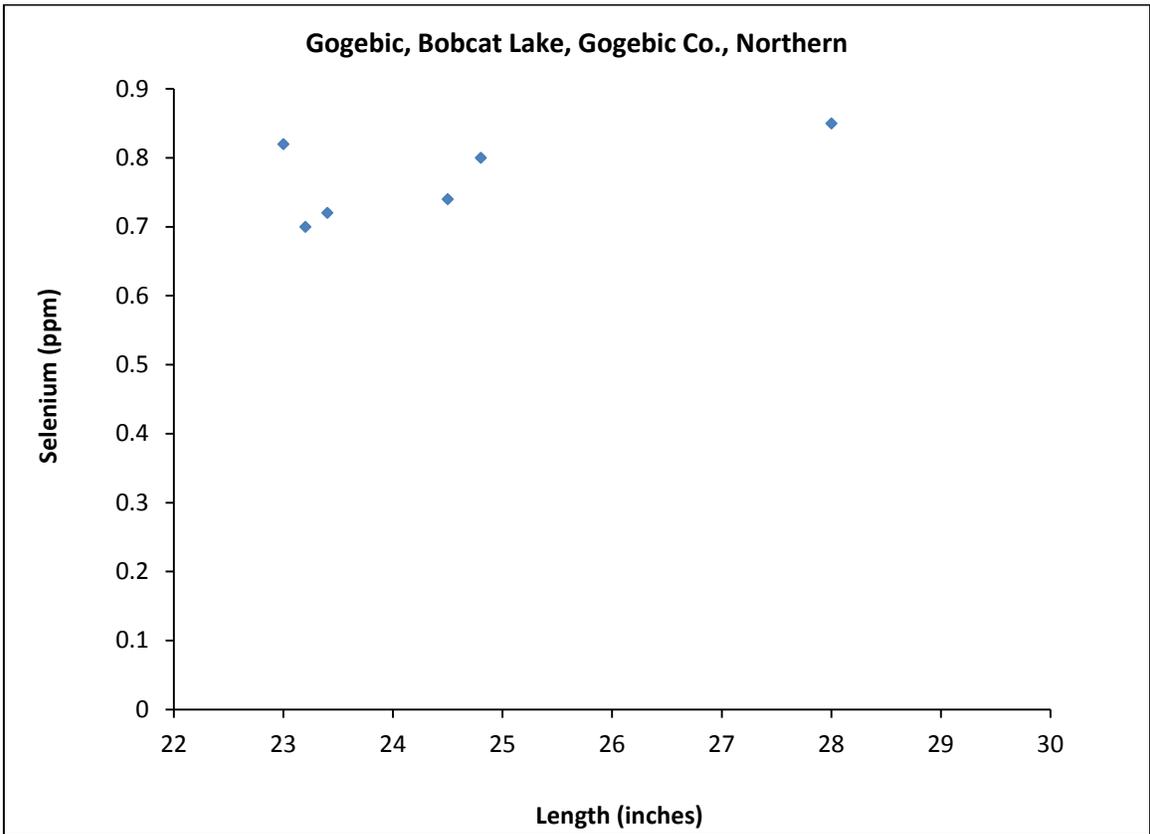
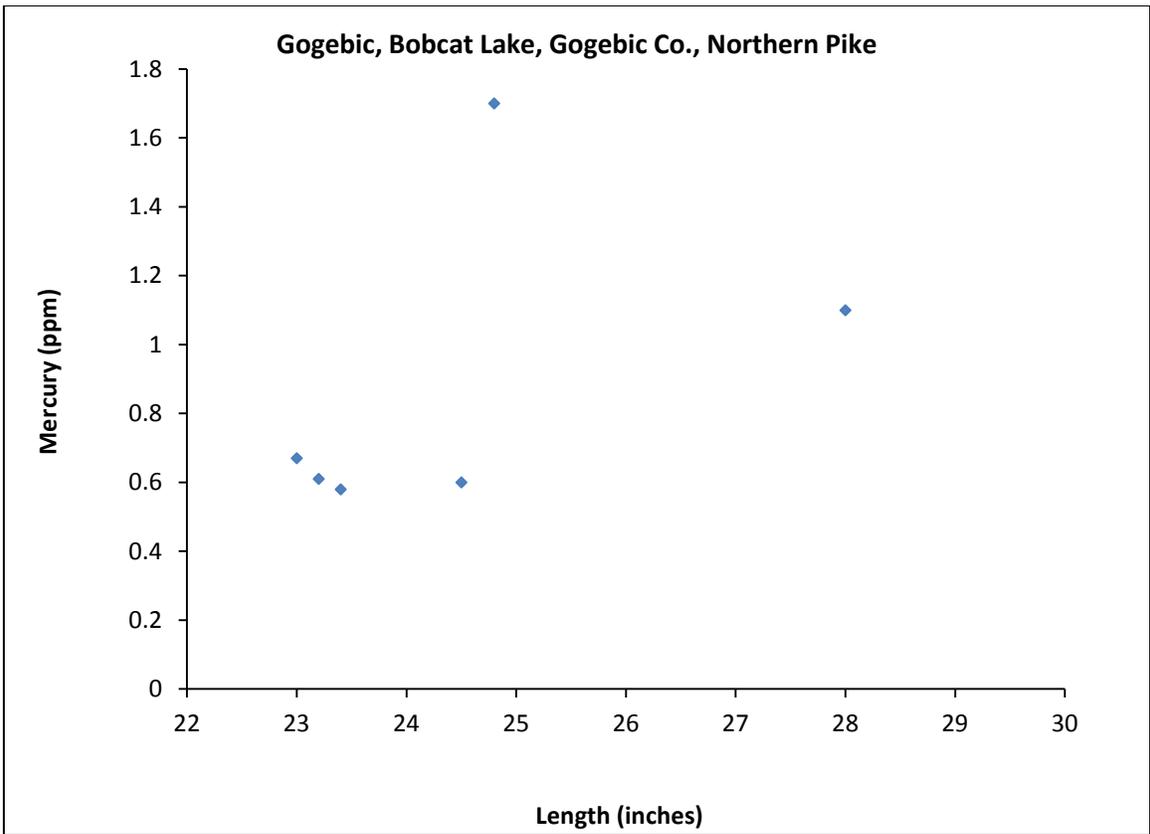
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
2009	2009	6	23	24	24.5	28
Datasets available: 2009						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.88	0.58	1.70	1.35	0.5
Selenium	6	0.77	0.70	0.85	0.83	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.230	0.318				
Selenium	0.410	0.400				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						0.5

Existing Advisory: Bobcat Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 6 meals per year of Bobcat Lake northern pike less than 30 inches or any of those over 30 inches due to mercury. Statewide size break was applied as the size lengths were limited.



Black Crappie

Chaney Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	1987	9	5.3	na	5.3	12
Datasets available: 1987						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	9	0.55	0.10	1.30	0.93	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.910	0.974				

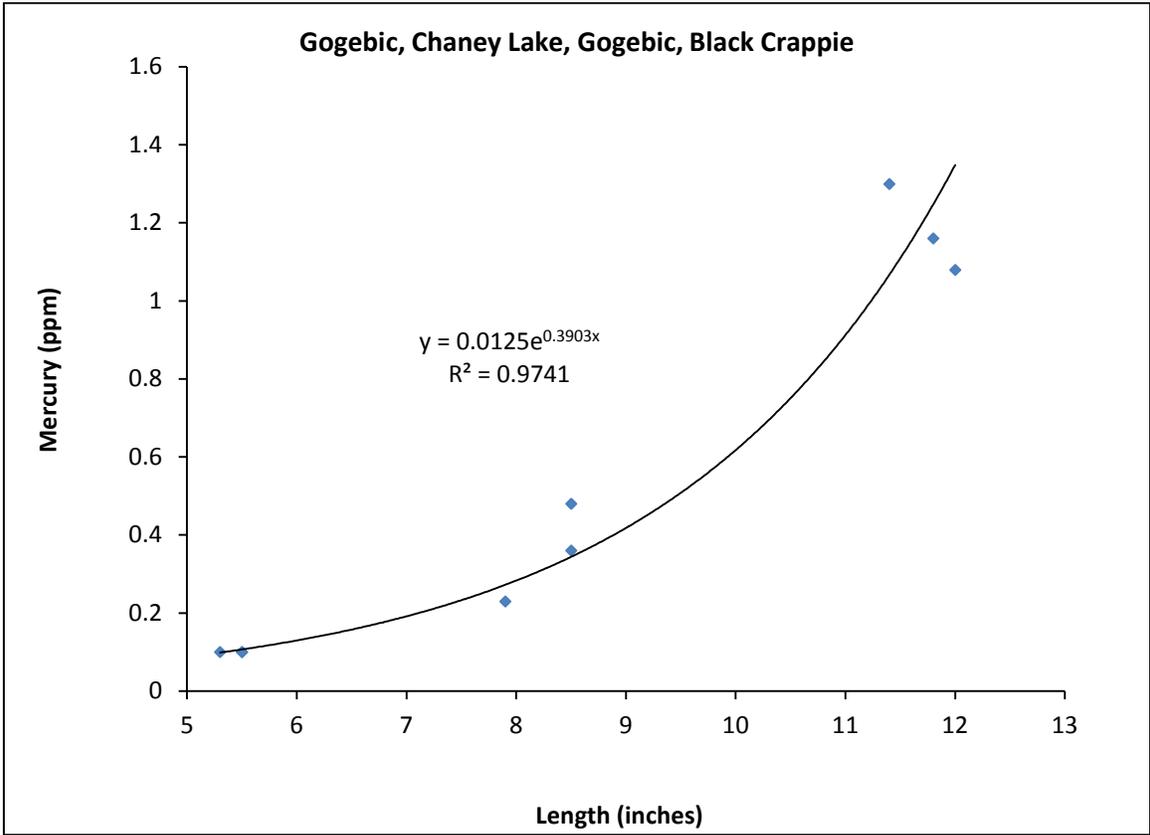
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Chaney Lake black crappie are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Chaney Lake crappie smaller than 10 inches or more than 6 meals per year of those fish larger than 10 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
5	0.09	12
6	0.13	8
7	0.19	4
8	0.28	2
9	0.42	2
10	0.62	1
11	0.92	1
12	1.35	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Northern Pike

Chaney Lake

Gogebic County

Hg & Se Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
1987	2009	34	12.6	na*	12.6	28.5	
Datasets available: 1987, 1993, 1998, '00, '09							
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
Mercury	34	1.201	0.340	1.940	1.320	0.5	
Selenium	10	0.199	0.140	0.320	0.240	16	
Chemical	Linear Regression R ²	Exponential Regression R ²	*There is no size limit on Chaney Lake (Gogebic) northern pike.				
Mercury	0.501	0.622					
Selenium	0.188	0.201					

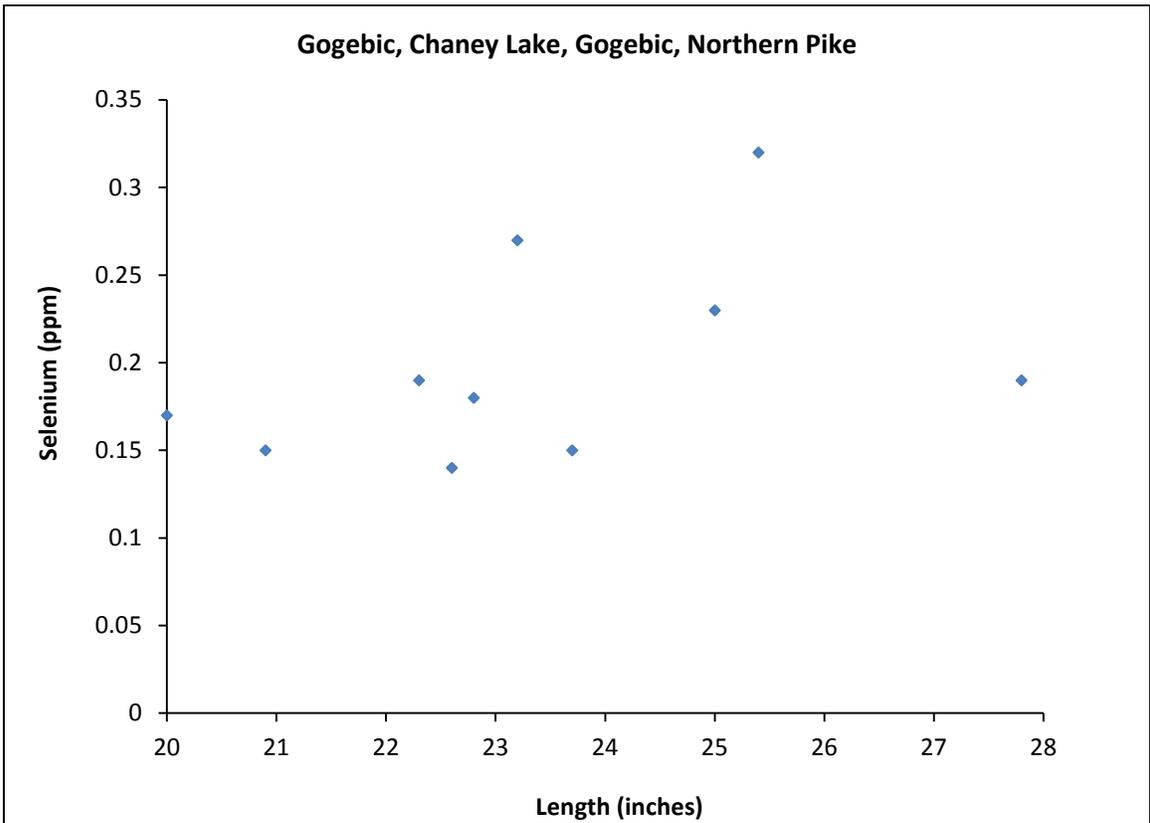
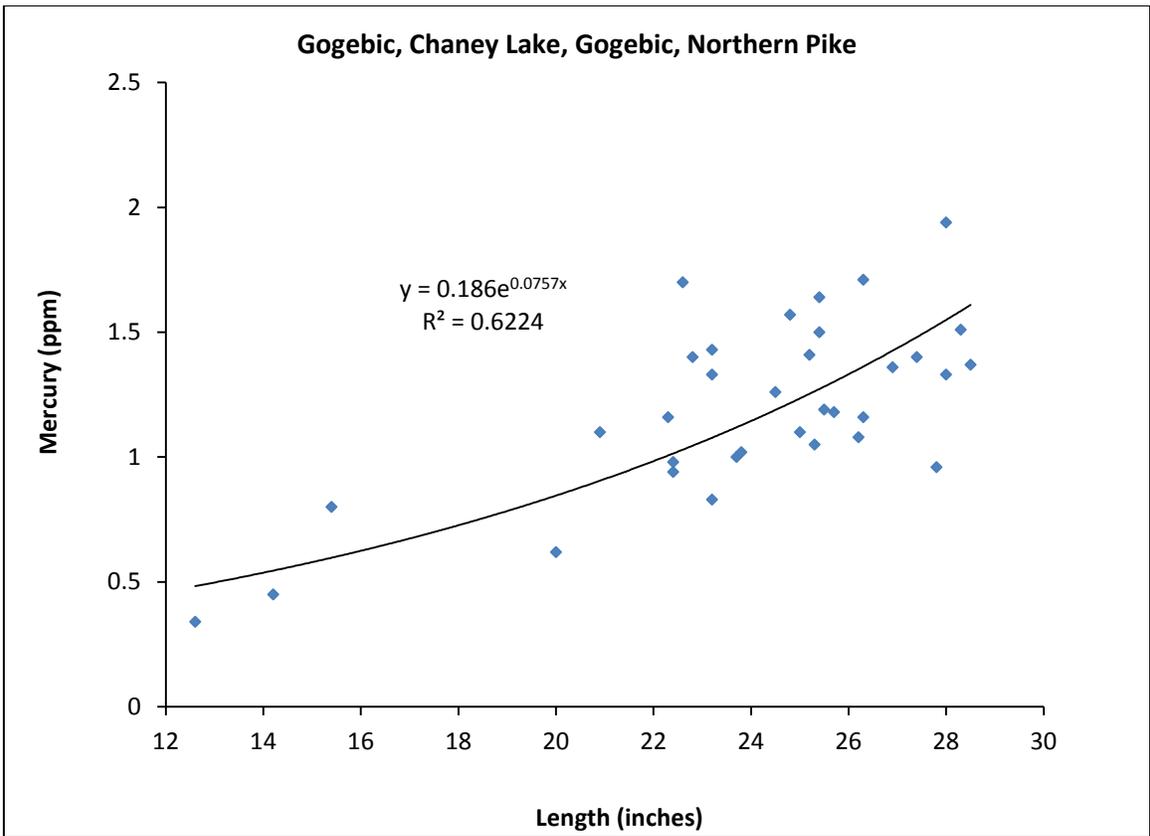
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Size Range of All Samples		Meal Category
Earliest	Most Recent				Min	Max	
--	--	0					
Datasets available: --							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
PCB	0	--	--	--	--	--	
DDT	0	--	--	--	--	--	
Chlordane	0	--	--	--	--	--	
Toxaphene	0	--	--	--	--	--	
Chemical	Linear Regression R ²	Exponential Regression R ²	*There is no size limit on Chaney Lake (Gogebic) northern pike.				
PCB	--	--					
DDT	--	--					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:						0.5	

Existing Advisory: Women and children should not eat more than one meal per month of Chaney Lake northern pike smaller than 26 inches and should not eat any of those fish larger than 26 inches due to mercury.

Recommendation: No one should eat more than 6 meals per year of Chaney Lake northern pike less than 30 inches or any of those fish greater than 30 inches due to mercury. Statewide length break was applied as the length range was limited.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
24	1.14	0.5
25	1.23	0.5
26	1.33	0.5
27	1.44	0.5
28	1.55	0.5
29	1.67	0.5
30	1.80	0.5
31	1.94	0.5
32	2.10	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Chaney Lake

Gogebic County

Hg Analysis:

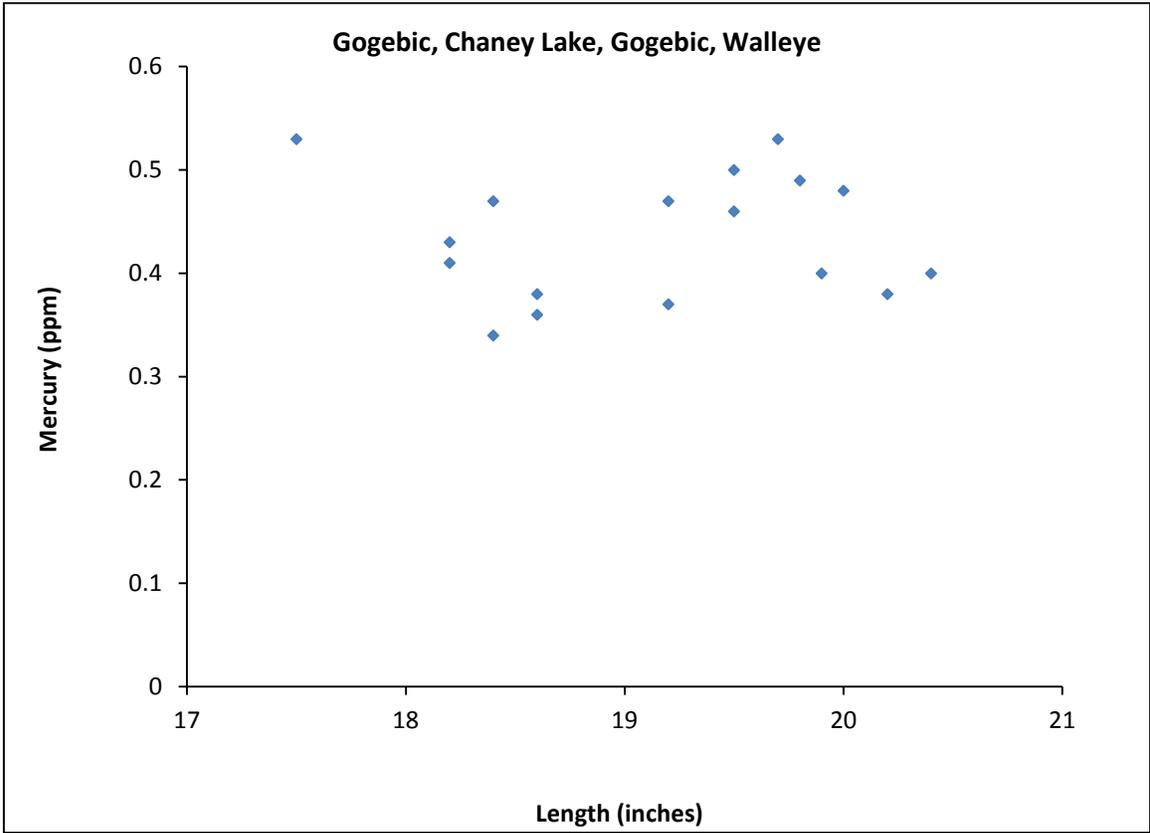
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1998	2000	17	17.5	15	17.5	20.4
Datasets available: 1998, 2000						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	17	0.44	0.34	0.53	0.47	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.000	0.001				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Chaney Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Chaney Lake walleye smaller than 20 inches or more than 1 meal per month of those fish larger than 20 inches due to mercury. Statewide length break was applied as the length range was limited.



Hg Analysis:

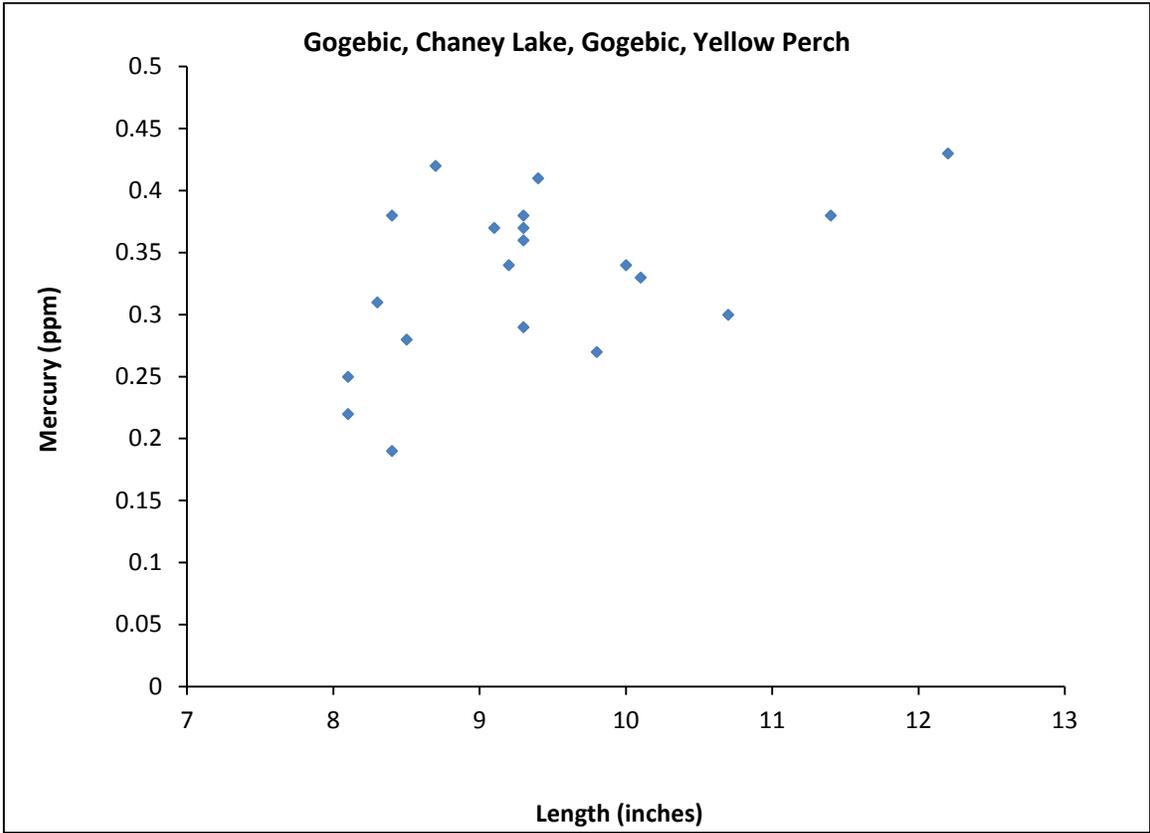
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of All Samples	
Earliest	Most Recent				Min	Max
1993	2000	20	8.1	na	8.1	12.2
Datasets available: 1993, 2000						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	20	0.33	0.19	0.43	0.36	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.219	0.218				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Chaney Lake yellow perch are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Chaney Lake yellow perch due to mercury.



Bluegill

Cisco Lake

Gogebic County

Hg Analysis:

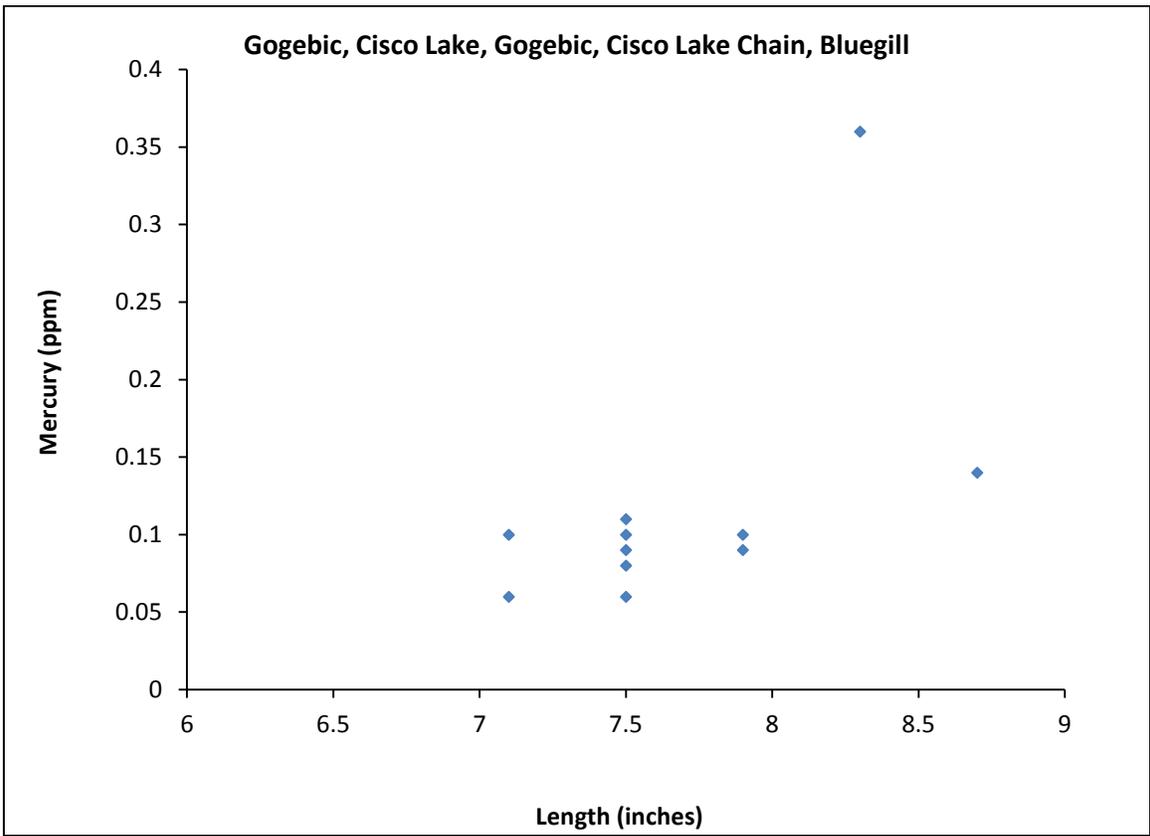
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of All Samples	
Earliest	Most Recent				Min	Max
1995	1995	11	7.1	na	7.1	8.7
Datasets available: 1995						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	11	0.12	0.06	0.36	0.17	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.331	0.430				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: There is no existing advisory for bluegill in Cisco Lake.

Recommendation: No one should eat more than 4 meals per month of Cisco Lake sunfish or bluegill due to mercury.



Northern Pike

Cisco Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of All Samples	
Earliest	Most Recent				Min	Max
1988	1988	6	12.4	na*	12.4	23.2
Datasets available: 1988						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.18	0.11	0.24	0.25	4
Chemical	Linear Regression	Exponential Regression	*There is no size limit on Cisco Lake (Gogebic) northern pike.			
	R ²	R ²				
Mercury	0.882	0.860				

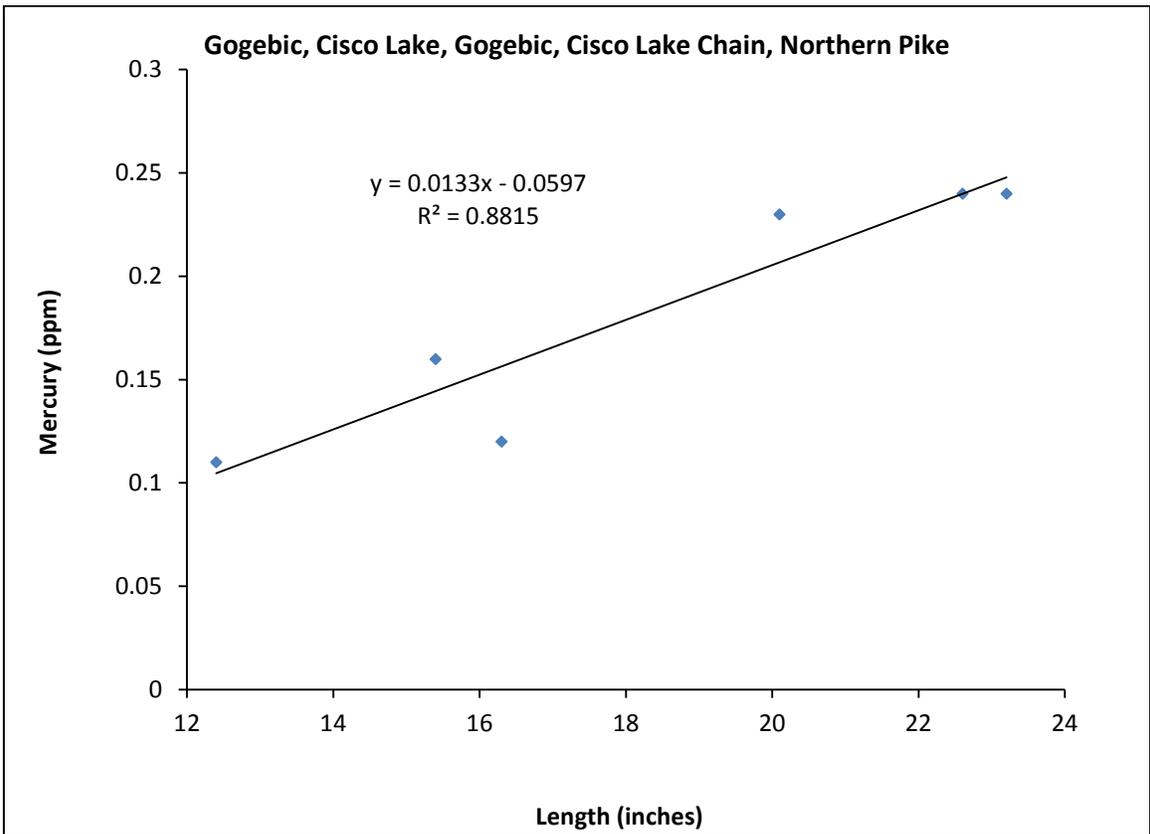
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Cisco Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 4 meals per month of Cisco Lake northern pike smaller than 24 inches or more than 2 meals per month of those fish larger than 24 inches due to mercury. Length break is based on the regression analysis.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
12	0.100	8
14	0.127	8
15	0.140	4
18	0.180	4
20	0.206	4
22	0.233	4
23	0.246	4
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Cisco Lake

Gogebic County

Hg Analysis:

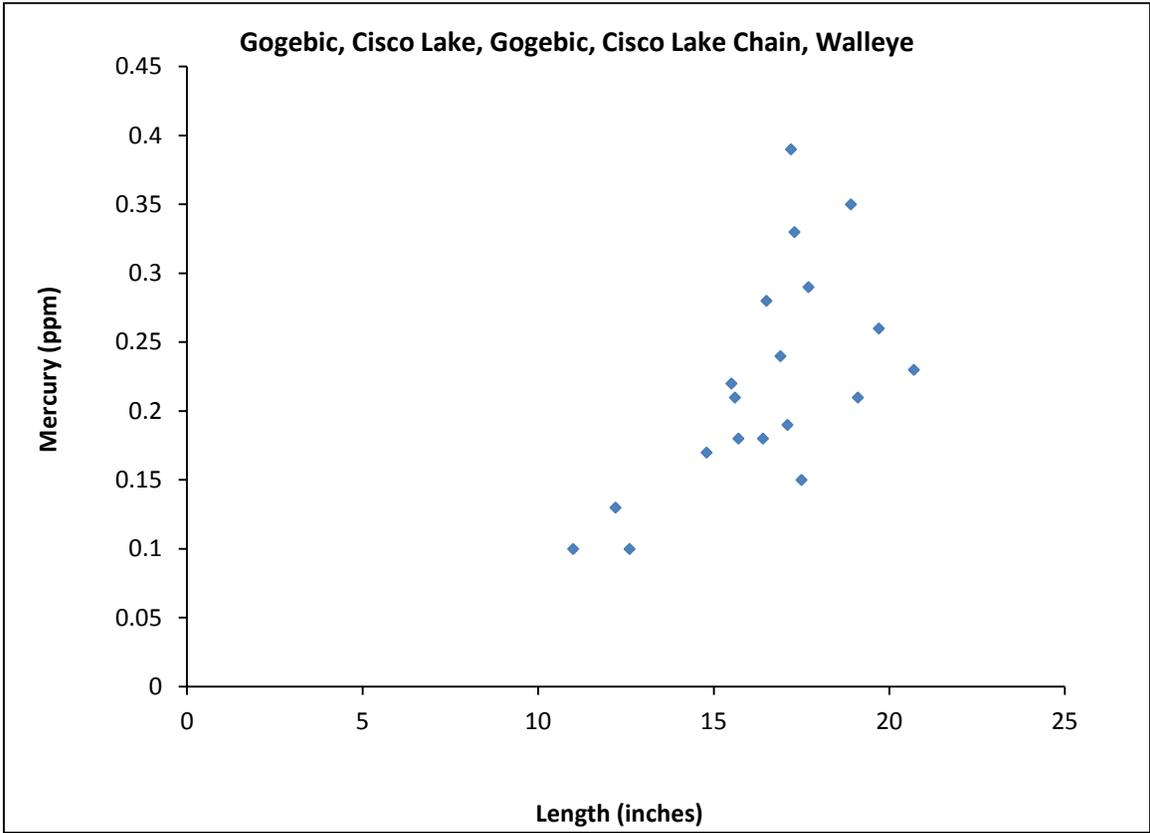
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1999	19	11	15	14.8	20.7
Datasets available: 1988, 1995, 1999						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	16	0.24	0.15	0.39	0.28	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.402	0.527				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: There are no eating restrictions for walleye in Cisco Lake for women and children.

Recommendation: No one should eat more than 2 meals per month of Cisco Lake walleye smaller than 20 inches or more than 1 meal per month of those fish larger than 20 inches due to mercury. Statewide length break was applied as the length range was limited.



Northern Pike

Clearwater Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2009	2009	4	20.3	na*	20.3	28.3
Datasets available: 2009						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	4	0.488	0.32	0.62	--	--
Chemical	Linear Regression	Exponential Regression	*There is no size limit on Clearwater Lake (Gogebic) northern pike.			
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Clearwater Lake northern pike are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide guidelines apply. No one should eat more than 1 meal per month of northern pike larger than 30 inches or more than 2 meals per month of northern pike smaller than 30 inches in length.

Black Crappie

Dinner Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of All Samples	
Earliest	Most Recent				Min	Max
2004	2004	2	11.7	na	11.7	12
Datasets available: 2004						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	2	0.40	0.35	0.44	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Dinner Lake black crappie are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide guidelines apply. No one should eat more than 4 meals per month of crappie from inland waters.

**Largemouth
& Smallmouth Bass
Hg Analysis:**

Dinner Lake

Gogebic County

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples				
Earliest	Most Recent				Min	Max			
2004	2004	4	13.1	14	14.0	17.1			
Datasets available:		2004							
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category			
Mercury	2	0.62	0.52	0.75	--	--			
Chemical	Linear Regression	Exponential Regression							
	R ²	R ²							
Mercury	--	--							

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples				
Earliest	Most Recent				Min	Max			
--	--	--	--	--	--	--			
Datasets available:		--							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category			
PCB	0	--	--	--	--	--			
DDT	0	--	--	--	--	--			
Chlordane	0	--	--	--	--	--			
Toxaphene	0	--	--	--	--	--			
Chemical	Linear Regression	Exponential Regression							
	R ²	R ²							
PCB	--	--							
DDT	--	--							
Chlordane	--	--							
Toxaphene	--	--							
						Final meal category based on UCL:		--	

Existing Advisory: Dinner Lake largemouth bass are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide guidelines apply. No one should eat more than 2 meals per month of largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches.

Northern Pike

Dinner Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
2004	2004	3	29.2	24	29.2	31.7	
Datasets available: 2004							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
Mercury	3	1.01	0.91	1.08	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury	--	--					

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
--	--	--	--	--	--	--	
Datasets available: --							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
PCB	0	--	--	--	--	--	
DDT	0	--	--	--	--	--	
Chlordane	0	--	--	--	--	--	
Toxaphene	0	--	--	--	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	--	--					
DDT	--	--					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							--

Existing Advisory: Dinner Lake northern pike are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide guidelines apply. No one should eat more than 1 meal per month of northern pike larger than 30 inches or more than 2 meals per month of northern pike smaller than 30 inches in length.

Walleye

Dinner Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
2004	2004	1	9	15	--	--		
Datasets available: 2004								
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
Mercury	1	1.09	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	--	--						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	--	--	--	--	--		
Datasets available: --								
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
PCB	0	--	--	--	--	--		
DDT	0	--	--	--	--	--		
Chlordane	0	--	--	--	--	--		
Toxaphene	0	--	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
						Final meal category based on UCL:		--

Existing Advisory: Dinner Lake walleye are covered by the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide guidelines apply. No one should eat more than 2 meals per month of walleye smaller than 20 inches or more than 1 meal per month of walleye larger than 20 inches.

Brook Trout

Duck Creek

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
1998	1998	12	7.5	10	9.6	10.6	
Datasets available: 1998							
Chemical	Sample Size (All)*	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)		
Mercury	2	0.14	0.09	0.20			
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury							

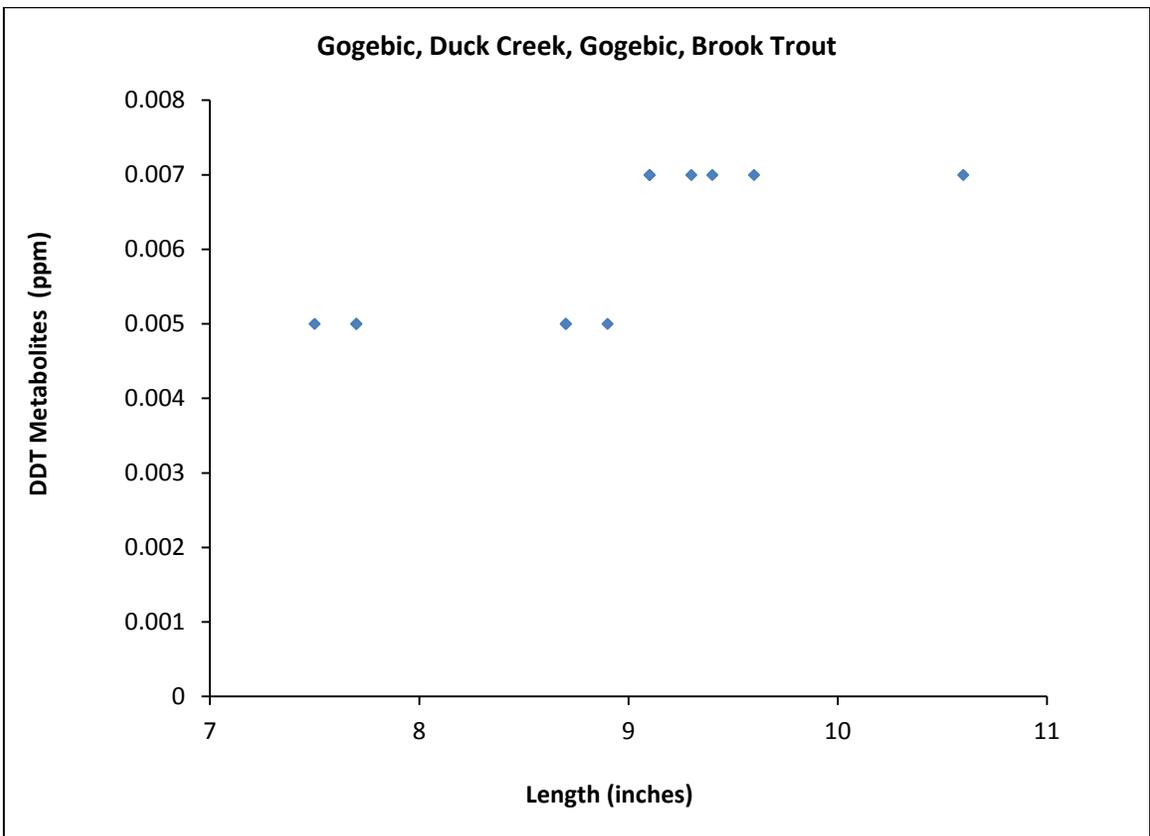
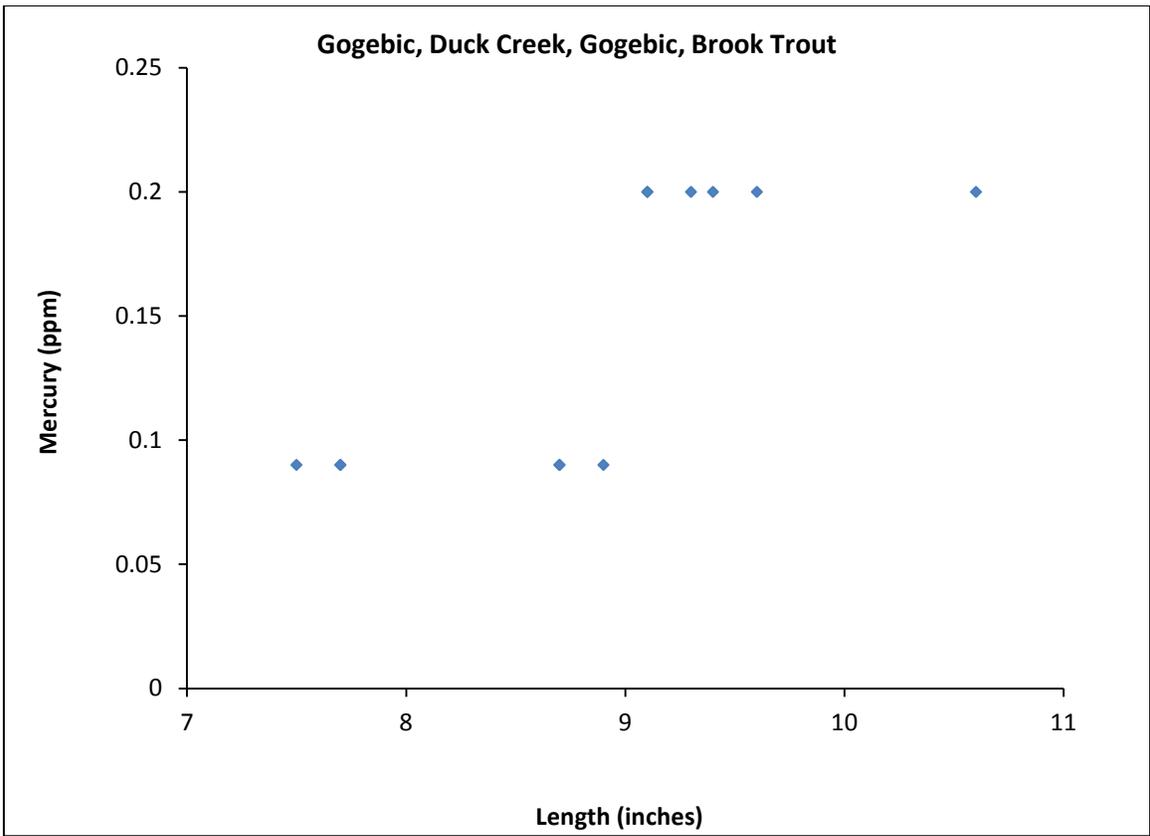
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
1998	1998	12	7.5	10	9.6	10.6	
Datasets available: 1998							
Chemical	Sample Size (Legal)*	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)		
PCB	2	ND	--	--	--	--	
DDT	2	0.006	0.005	0.007	--	--	
Chlordane	2	ND	--	--	--	--	
Toxaphene	2	ND	--	--	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	--	--					
DDT	0.593	0.593					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							--

* - 2 composites of 6 fillets each

Existing Advisory: There are no existing consumption advisories for brook trout from Duck Creek.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. There are insufficient data for this species to develop waterbody-specific or statewide advice.



White Sucker

Duck Creek

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1998	1998	4	11.4	na	11.4	14.2
Datasets available: 1998						
Chemical	Sample Size (Legal)*	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	1	0.23	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1998	1998	4	11.4	na	11.4	14.2
Datasets available: 1998						
Chemical	Sample Size (Legal)*	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	1	ND	--	--	--	--
DDT	1	ND	--	--	--	--
Chlordane	1	ND	--	--	--	--
Toxaphene	1	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

* - 1 composite sample comprised of 4 fillets

Existing Advisory: There are no existing advisories for white sucker from Duck Creek.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide advice due to mercury applies to Duck Creek sucker: No one should eat more than 8 meals per month of sucker from inland waters.

Northern Pike

Duck Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	1986	1	21.5	24	--	--
Datasets available: 1986						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	1	0.2	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Duck Lake northern pike are covered by the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide guidelines apply. No one should eat more than 1 meal per month of northern pike larger than 30 inches or more than 2 meals per month of northern pike smaller than 30 inches in length.

Rock Bass

Duck Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	1986	10	7.7	na	7.7	9.4
Datasets available: 1986						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.22	0.10	0.40	0.30	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.638	0.674				

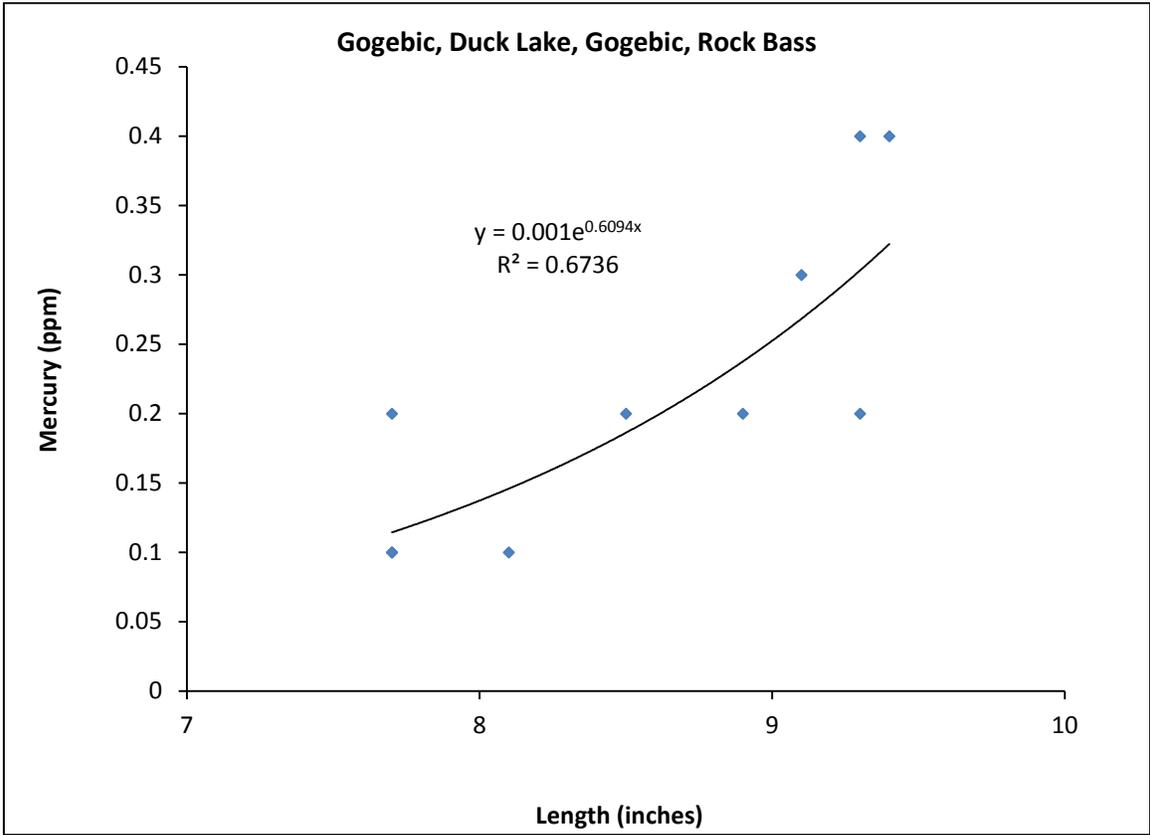
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Duck Lake rock bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 4 meals per month of Duck Lake rock bass smaller than 9 inches or more than 2 meals per month of those fish larger than 9 inches due to mercury. Dataset is limited by the length range and age. Length break based on the regression.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
6	0.039	16
7	0.071	12
8	0.131	4
9	0.241	4
10	0.443	2
11	0.815	1
12	1.499	0.5
13	2.758	0
14	5.073	0
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Duck Lake

Gogebic County

Hg Analysis:

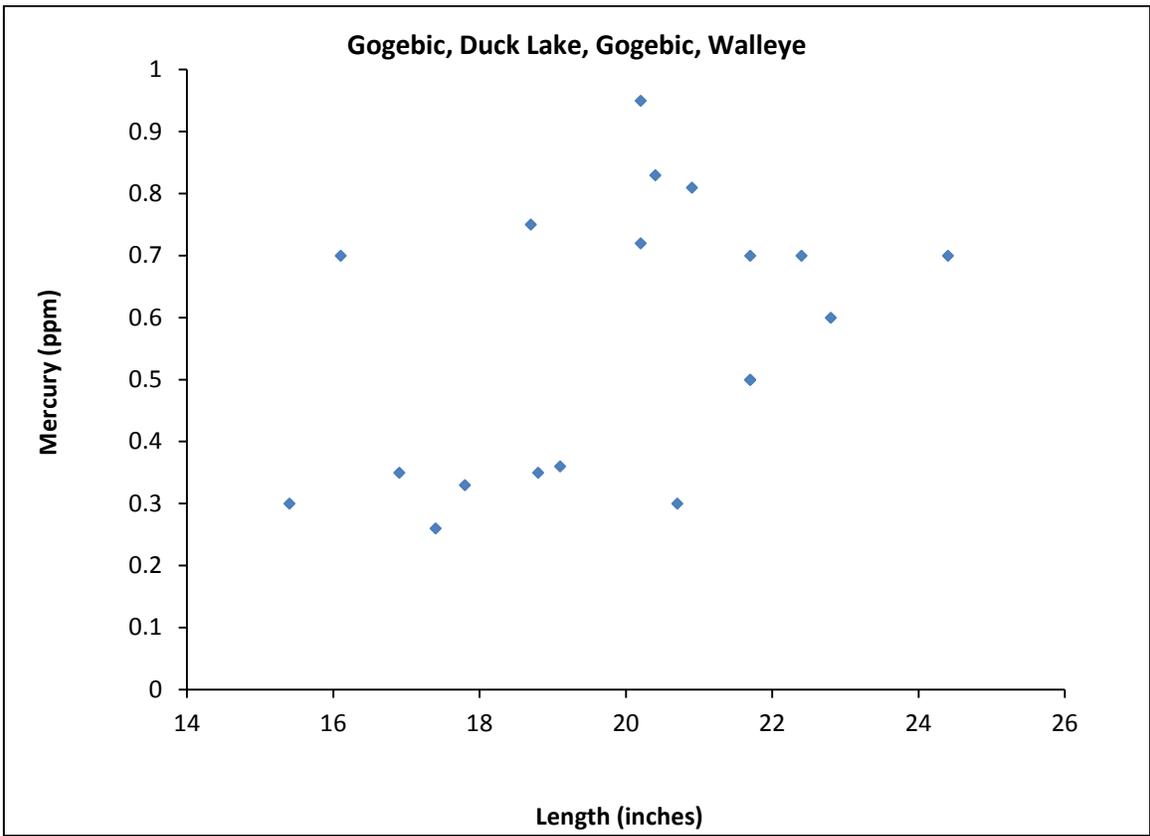
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	1999	19	15.1	15	15.4	24.4
Datasets available: 1986, 1999						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	19	0.56	0.26	0.95	0.97	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.195	0.243				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Women and children should not eat more than one meal per month of Duck Lake walleye larger than 18 inches.

Recommendation: No one should eat more than 1 meal per month of Duck Lake walleye due to mercury.



Black Crappie

Eel Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2009	2009	10	8.1	na	8.1	12.8
Datasets available: 2009						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.19	0.09	0.42	0.28	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.683	0.603				

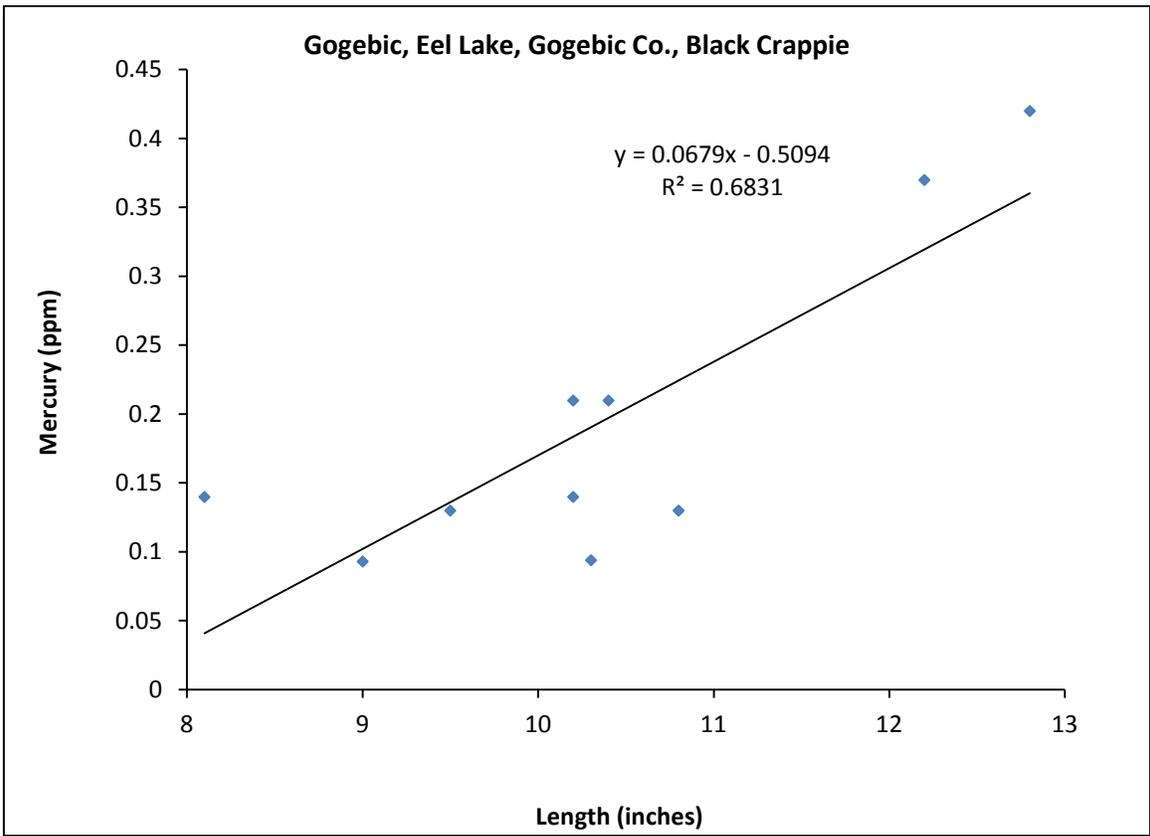
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Eel Lake black crappie are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 4 meals per month of Eel Lake crappie smaller than 12 inches or more than 2 meals per month of those fish larger than 12 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
8	0.034	16
9	0.102	8
10	0.170	4
11	0.238	4
12	0.305	2
13	0.373	2
<i>Shaded area denotes extrapolated estimates</i>		



Rock Bass

Lake Gogebic

**Gogebic & Ontonagon
Counties**

Hg Analysis:

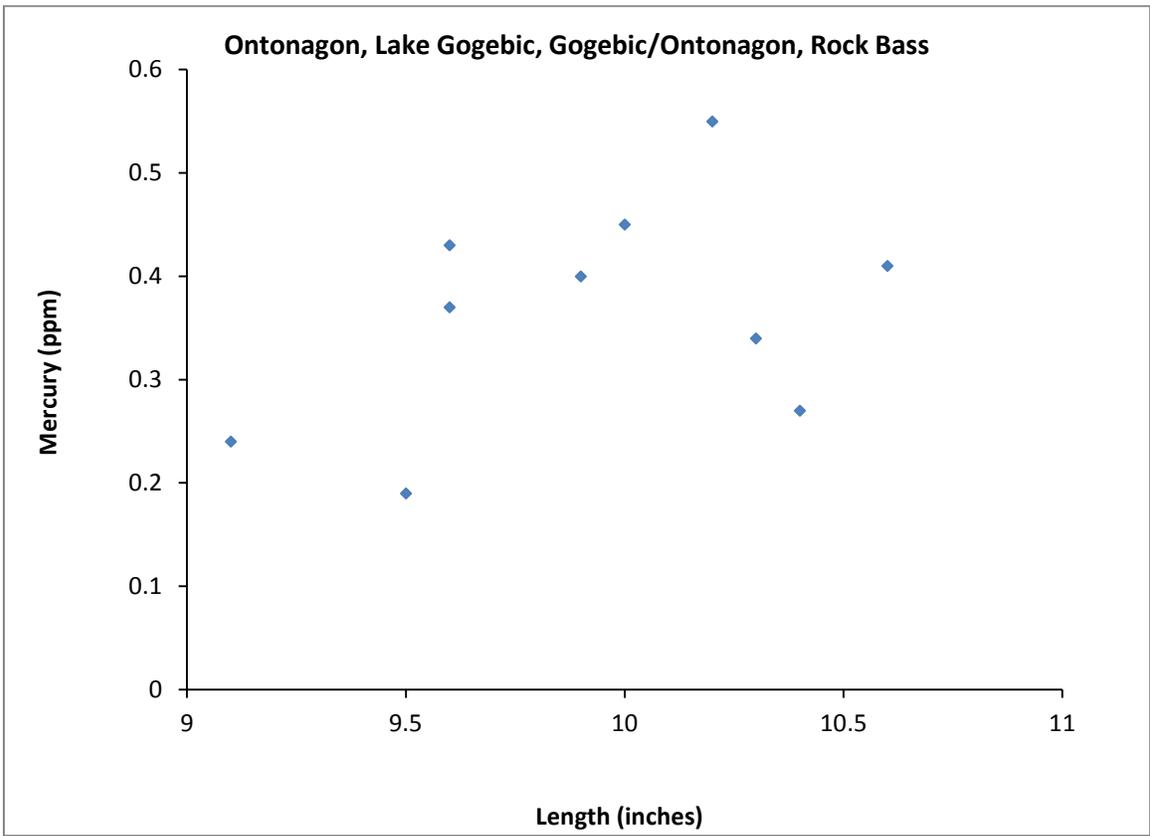
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2003	2003	10	9.1	na	9.1	10.6
Datasets available: 2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.37	0.19	0.55	0.44	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.169	0.193				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Lake Gogebic rock bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Lake Gogebic rock bass due to mercury.



Walleye

Lake Gogebic

**Gogebic & Ontonagon
Counties**

Hg Analysis:

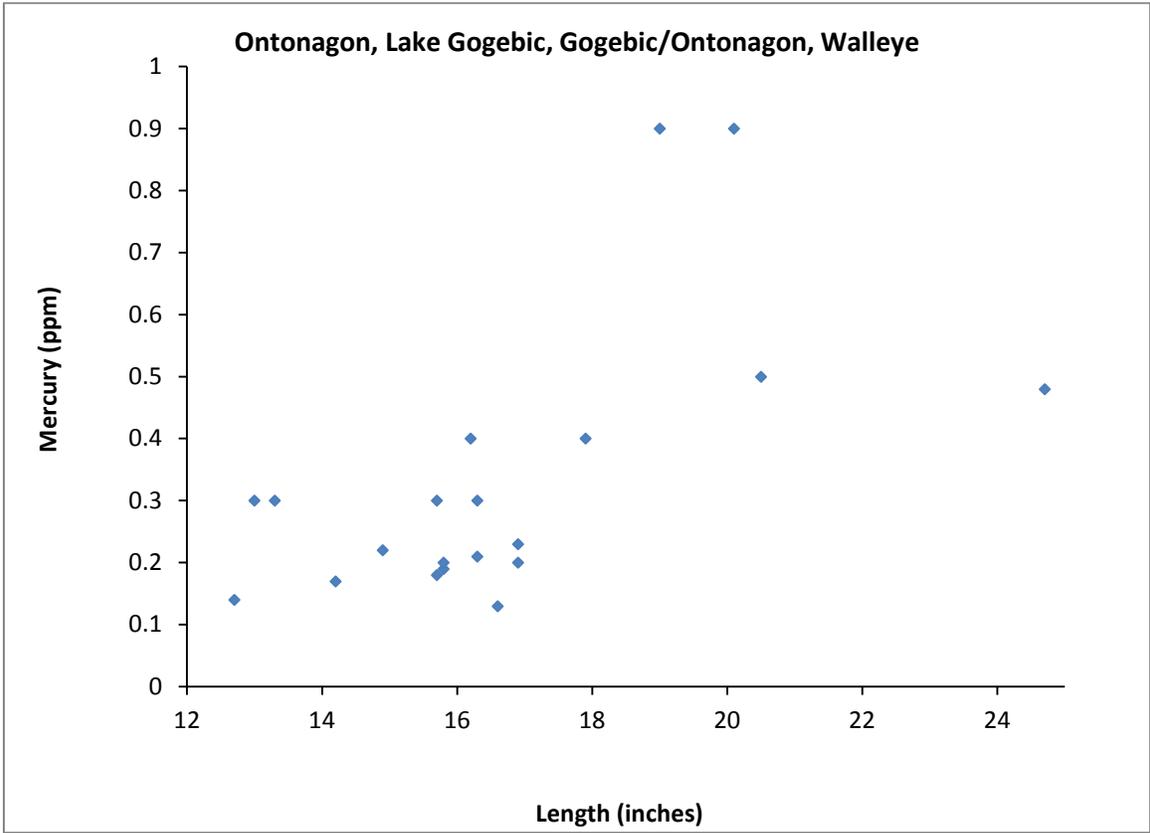
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1985	2002	20	12.7	15	14.9	24.7
Datasets available: 1985, 2002						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	16	0.36	0.13	0.9	0.49	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.366	0.396				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Women and children should not eat more than one meal per month of Lake Gogebic walleye over 18 inches due to mercury.

Recommendation: No one should eat more than 2 meals per month of Lake Gogebic walleye less than 20 inches or 1 meal per month of those fish greater than 20 inches due to mercury. Statewide length break applied due to limited sample size above 20 inches.



White Sucker

Lake Gogebic

Gogebic & Ontonagon Counties

Hg Analysis:

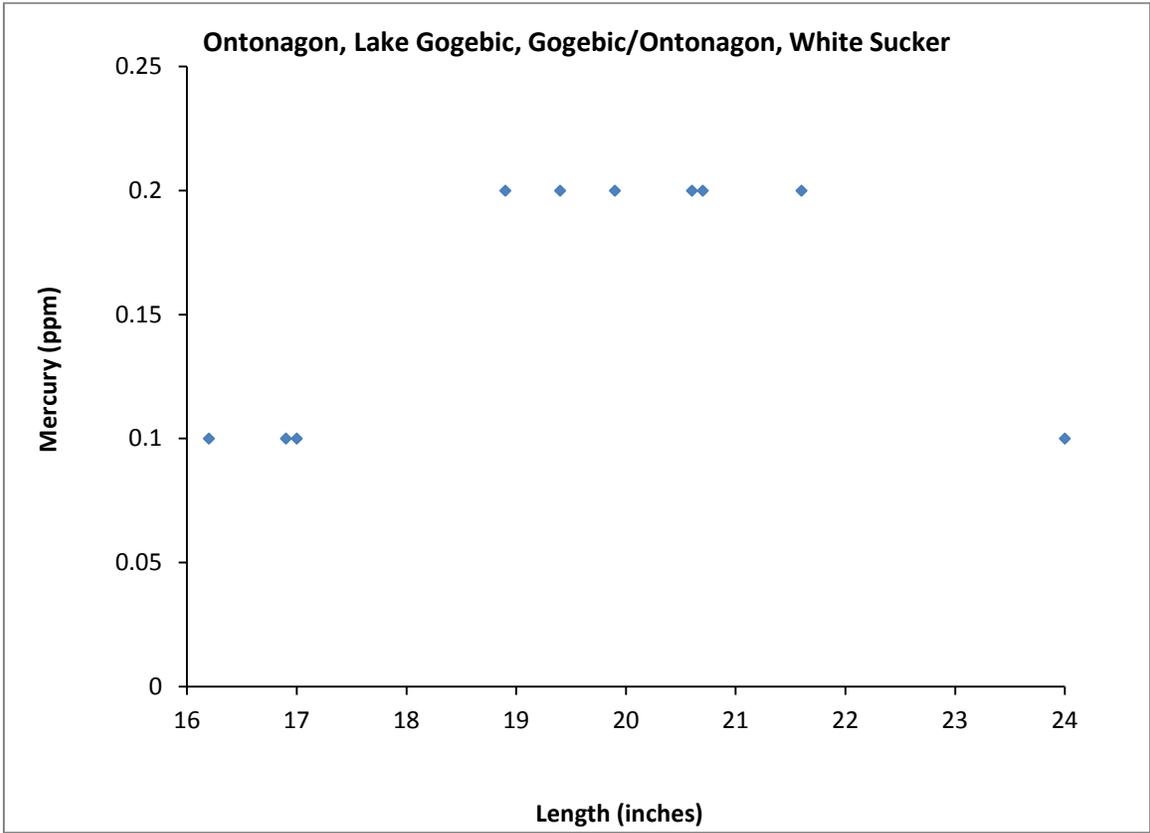
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1985	1985	10	16.2	na	16.2	24
Datasets available:		1985				
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.16	0.1	0.2	0.20	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.128	0.128				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available:		--				
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Lake Gogebic white sucker have no existing advisory.

Recommendation: No one should eat more than 4 meals per month of Lake Gogebic sucker due to mercury.



Bluegill

Langford Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	1986	10	7.5	na	7.5	9.3
Datasets available: 1986						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.29	0.20	0.60	0.39	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.615	0.617				

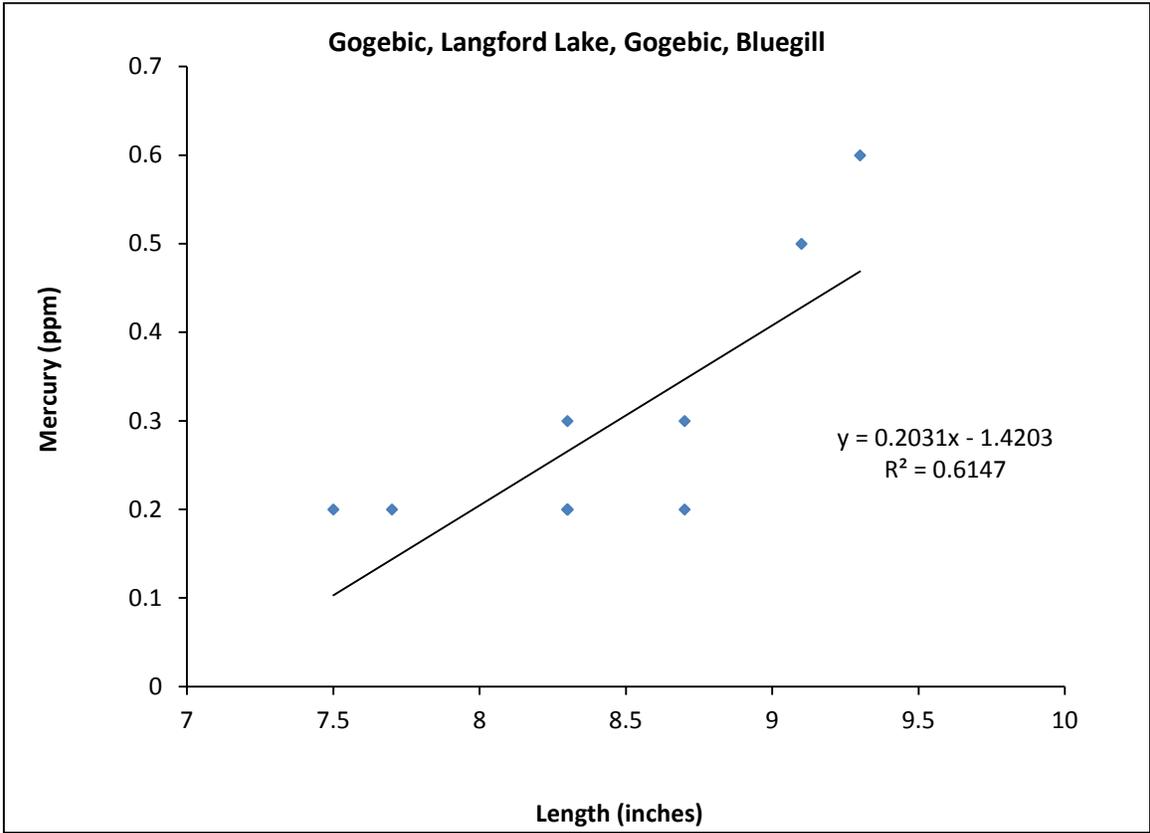
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: There are no existing advisories for bluegill in Langford Lake.

Recommendation: No one should eat more than 4 meals per month of Langford Lake sunfish smaller than 8 inches or more than 2 meals per month of those fish larger than 8 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
6	0	16
7	0.001	16
8	0.20	4
9	0.41	2
10	0.61	1
11	0.81	1
12	1.02	1
13	1.22	0.5
14	1.42	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Northern Pike

Langford Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1994	1994	5	20.3	24	25.2	28.3
Datasets available: 1994						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.52	0.30	0.65	0.71	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.633	0.569				

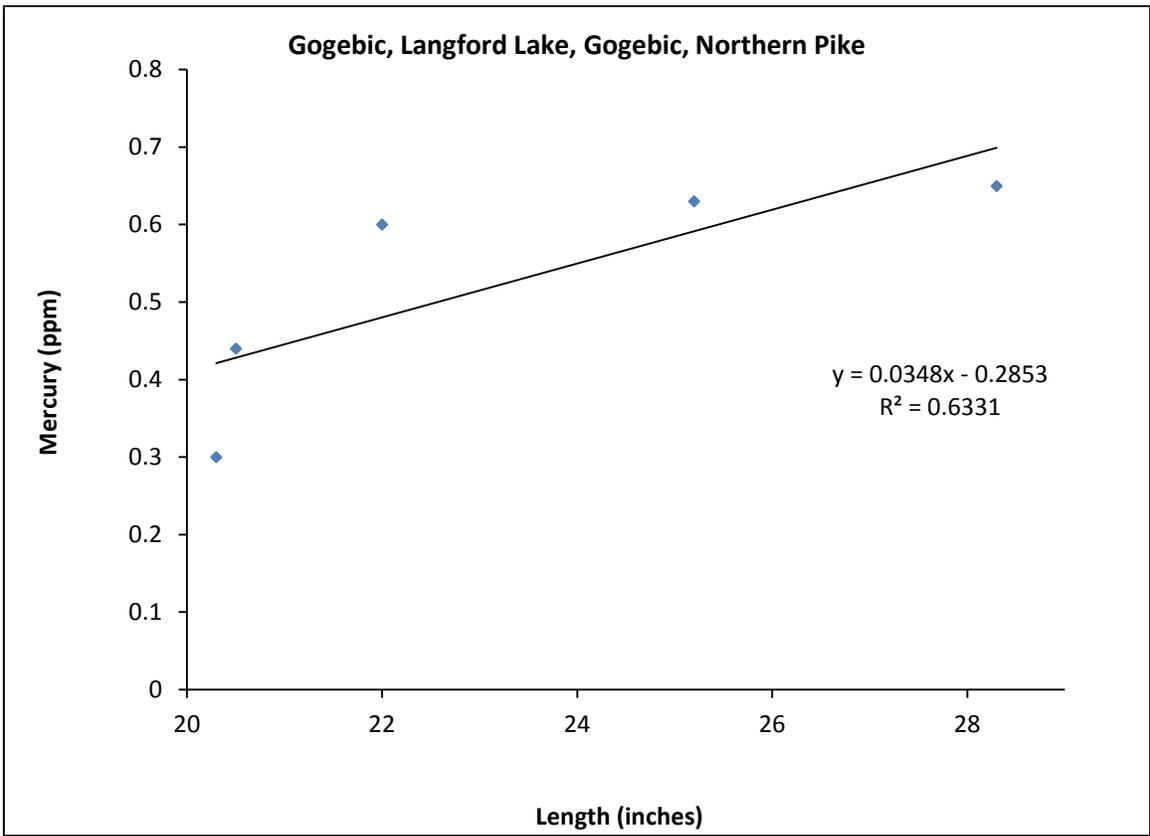
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Langford Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Langford Lake northern pike smaller than 30 inches or more than 6 meals per year of those fish larger than 30 inches due to mercury. The statewide length break was applied as the size range was limited.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
20	0.41	2
21	0.45	2
22	0.48	2
23	0.52	2
24	0.55	1
25	0.58	1
26	0.62	1
27	0.65	1
28	0.69	1
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Langford Lake

Gogebic County

Hg Analysis:

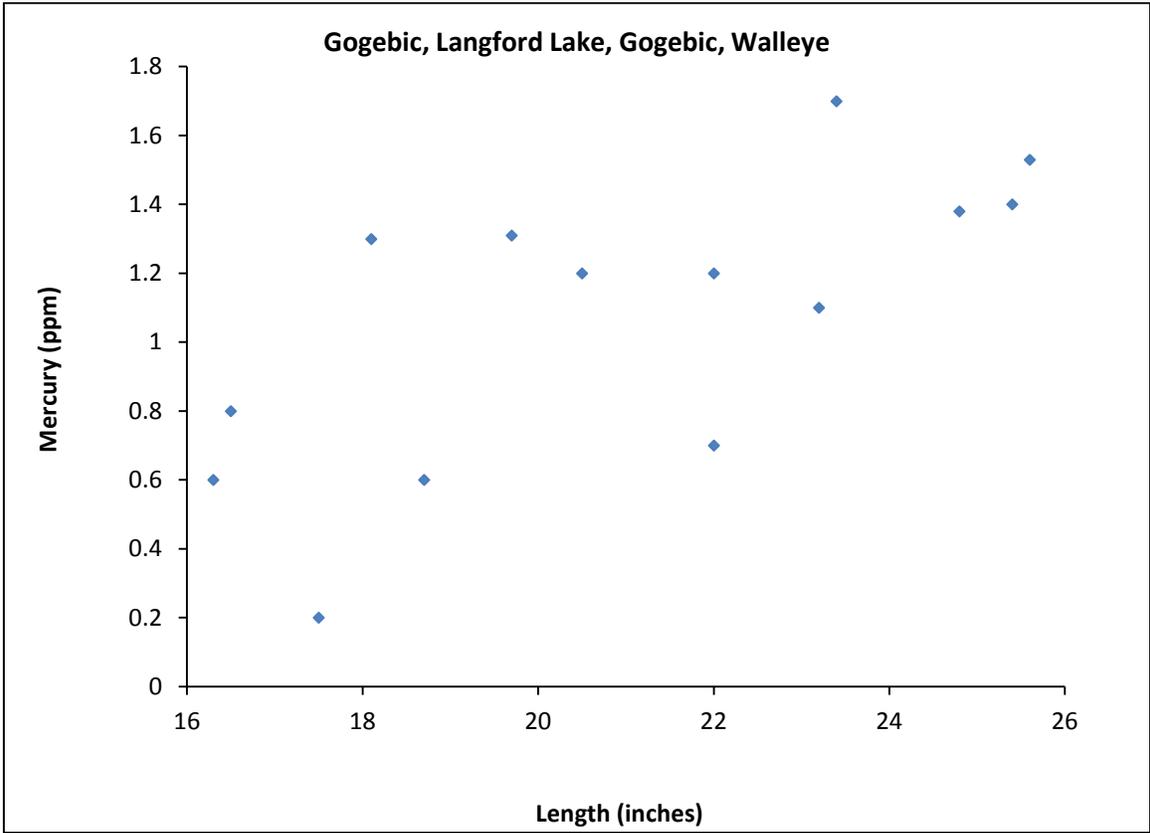
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	1994	14	16.3	15	16.3	25.6
Datasets available: 1986, 1994						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	14	1.07	0.20	1.70	1.32	0.5
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.486	0.391				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						0.5

Existing Advisory: No one should eat walleye greater than 22 inches from Langford Lake due to mercury.

Recommendation: No one should eat more than 6 meals per year of Langford Lake walleye due to mercury.



Largemouth Bass

Little Oxbow Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2005	2005	7	13.7	14	13.7	16.3
Datasets available: 2005						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	7	0.29	0.16	0.55	0.44	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.890	0.870				

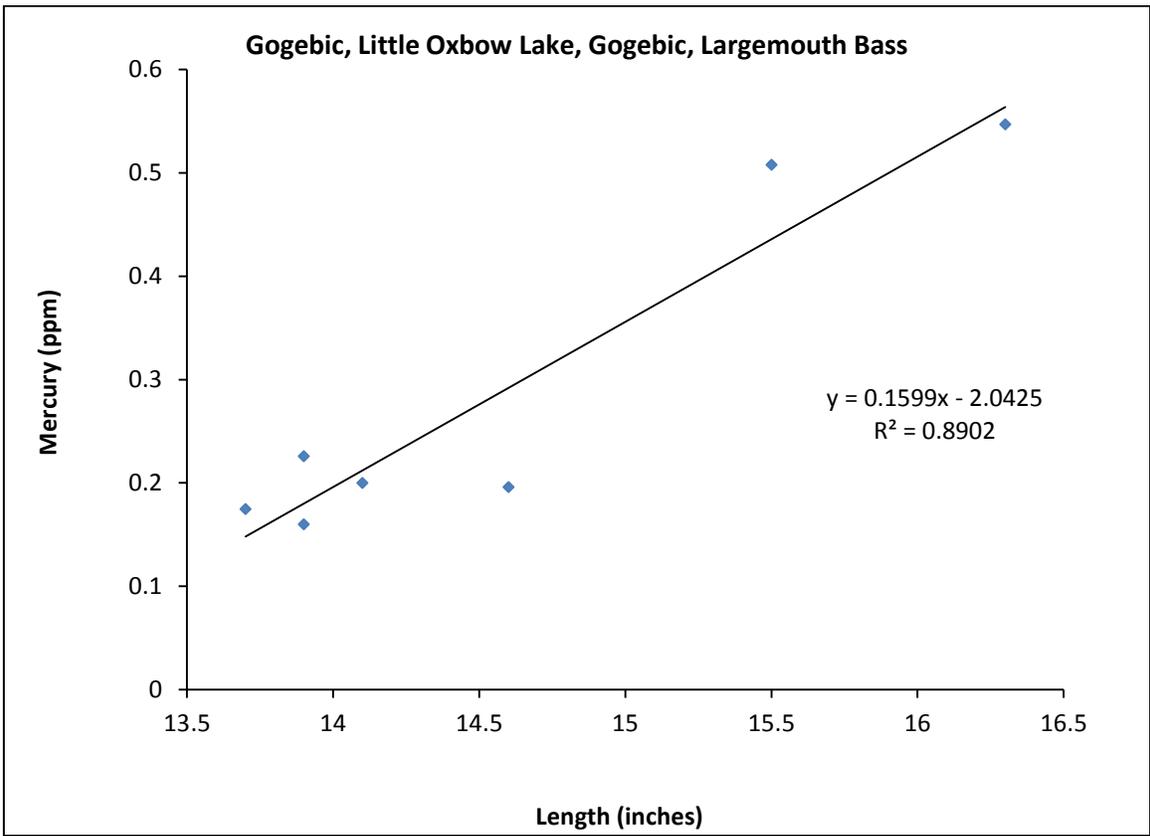
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Little Oxbow Lake largemouth bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Little Oxbow Lake largemouth or smallmouth bass smaller than 16 inches or more than 1 meal per month of those fish larger than 16 inches due to mercury. Length break based on regression estimates.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
13	0.04	16
14	0.20	4
15	0.36	2
16	0.52	2
17	0.68	1
18	0.84	1
19	1.00	1
20	1.16	0.5
21	1.32	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Little Oxbow Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2005	2005	3	15.1	15	15.1	16.3
Datasets available: 2005						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	3	0.81	0.73	0.86	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.393	0.410				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Little Oxbow Lake walleye are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guidelines apply. No one should eat more than 2 meals per month of walleye smaller than 20 inches or more than 1 meal per month of walleye larger than 20 inches.

Northern Pike

Marion Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples				
Earliest	Most Recent				Min	Max			
2003	2003	1	29.0	24	--	--			
Datasets available:		2003							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category			
Mercury	1	0.90	--	--	--	--			
Chemical	Linear Regression	Exponential Regression							
	R ²	R ²							
Mercury	--	--							

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples				
Earliest	Most Recent				Min	Max			
--	--	--	--	--	--	--			
Datasets available:		--							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category			
PCB	0	--	--	--	--	--			
DDT	0	--	--	--	--	--			
Chlordane	0	--	--	--	--	--			
Toxaphene	0	--	--	--	--	--			
Chemical	Linear Regression	Exponential Regression							
	R ²	R ²							
PCB	--	--							
DDT	--	--							
Chlordane	--	--							
Toxaphene	--	--							
						Final meal category based on UCL:		--	

Existing Advisory: Marion Lake northern pike are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guidelines apply. No one should eat more than 1 meal per month of northern pike larger than 30 inches or more than 2 meals per month of northern pike smaller than 30 inches in length.

Rock Bass

Marion Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	1987	8	6.7	na	6.7	8.7
Datasets available: 1987						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	8	0.25	0.15	0.43	0.32	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.772	0.688				

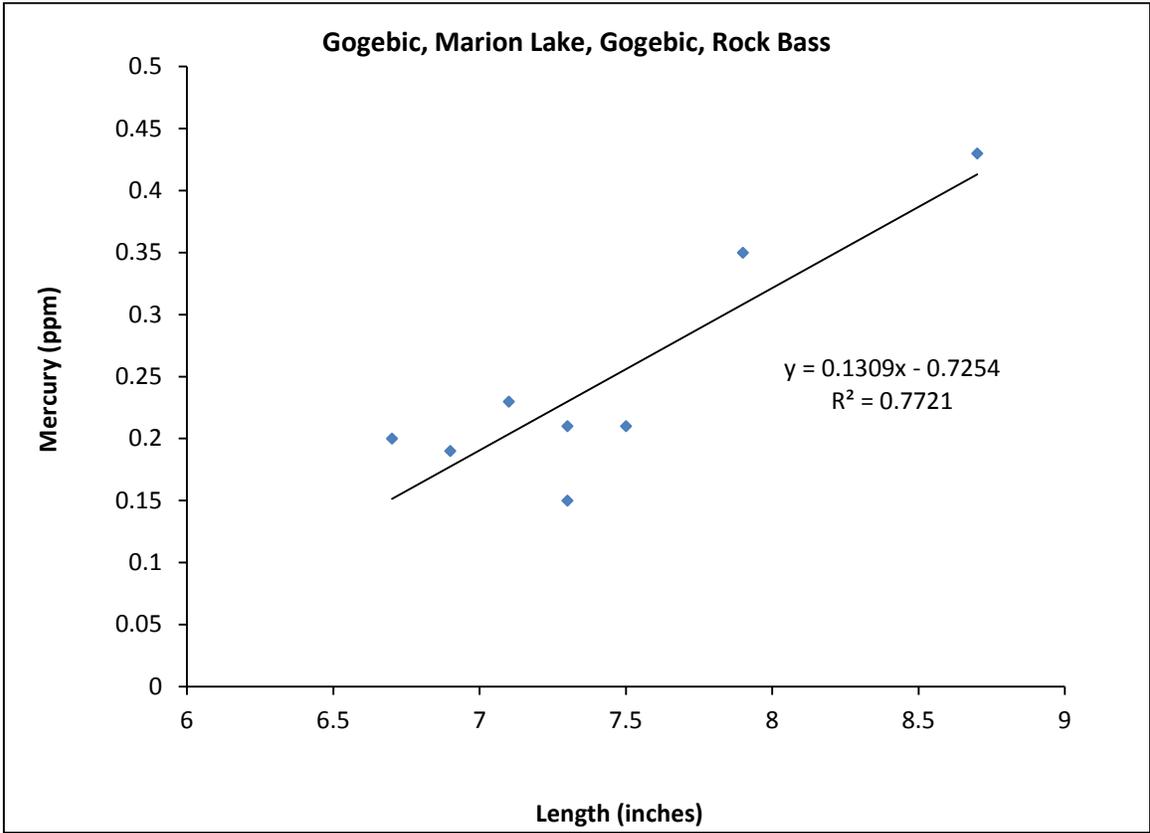
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Marion Lake rock bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Marion Lake rock bass smaller than 9 inches or more than 1 meal per month of those fish larger than 9 inches due to mercury. Length break based on the regression estimates.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
6	0.060	16
7	0.191	4
8	0.322	2
9	0.453	2
10	0.584	1
11	0.715	1
12	0.845	1
13	0.976	1
14	1.107	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Smallmouth Bass

Marion Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
2003	2003	1	15.0	14.0	15.0	15.0	
Datasets available: 2003							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
Mercury	1	0.47	--	--	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury	--	--					

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
--	--	--	--	--	--	--	
Datasets available: --							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
PCB	0	--	--	--	--	--	
DDT	0	--	--	--	--	--	
Chlordane	0	--	--	--	--	--	
Toxaphene	0	--	--	--	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	--	--					
DDT	--	--					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							--

Existing Advisory: Marion Lake smallmouth bass are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guidelines apply. No one should eat more than 2 meals per month of largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches.

Walleye

Marion Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1987	2003	8	13.2	15	15.0	19.7
Datasets available: 1987, 2003						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.87	0.62	1.28	1.13	0.5
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.654	0.686				

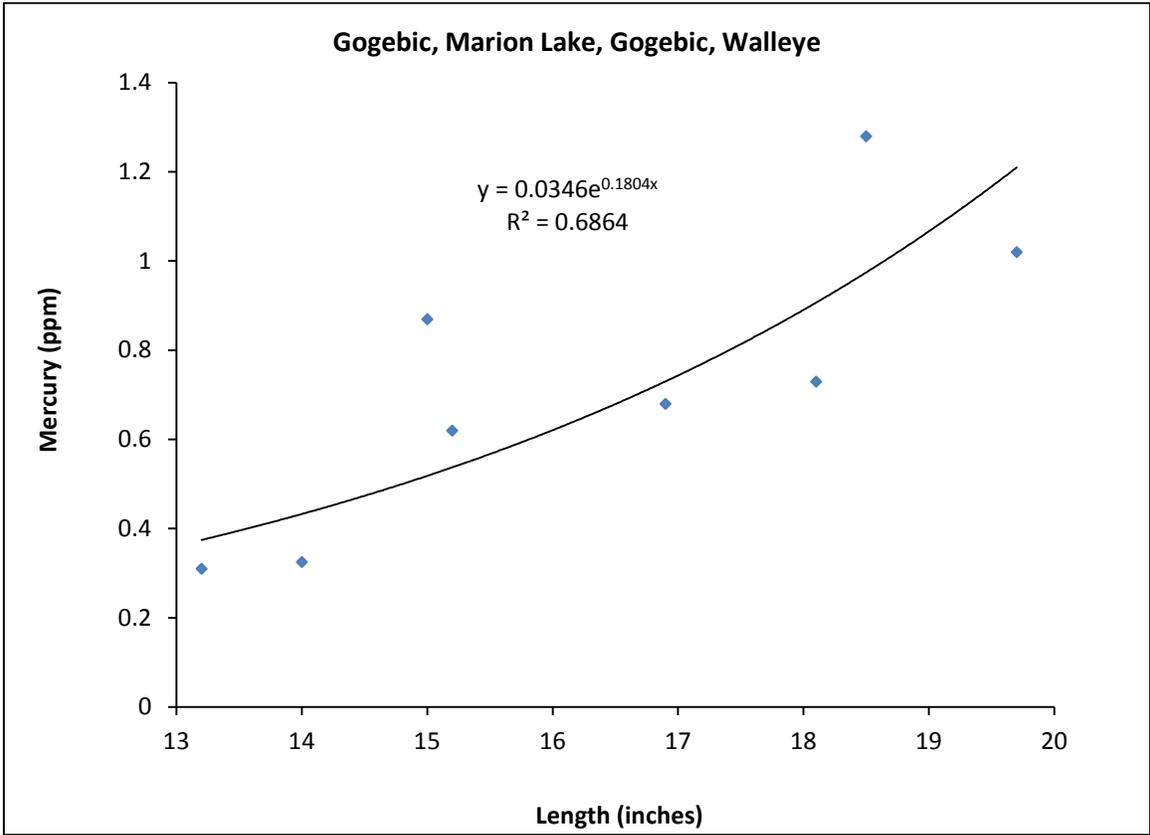
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						0.5

Existing Advisory: Marion Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Marion Lake walleye smaller than 20 inches or more than 6 meals per year of those fish larger than 20 inches due to mercury. Statewide length break was applied and is in agreement with the regression estimates.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
13	0.36	2
14	0.43	2
15	0.52	2
16	0.62	1
17	0.74	1
18	0.89	1
19	1.07	1
20	1.28	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Yellow Perch

Marion Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
2003	2003	1	9.0	na	--	--		
Datasets available:		2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
Mercury	1	0.26	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	--	--						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	--	--	--	--	--		
Datasets available:		--						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
PCB	0	--	--	--	--	--		
DDT	0	--	--	--	--	--		
Chlordane	0	--	--	--	--	--		
Toxaphene	0	--	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
						Final meal category based on UCL:		--

Existing Advisory: Marion Lake yellow perch are covered by the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guidelines apply. No one should eat more than 4 meals per month of yellow perch from inland waters.

Largemouth Bass

Ormes Lake

Gogebic County

Hg Analysis:

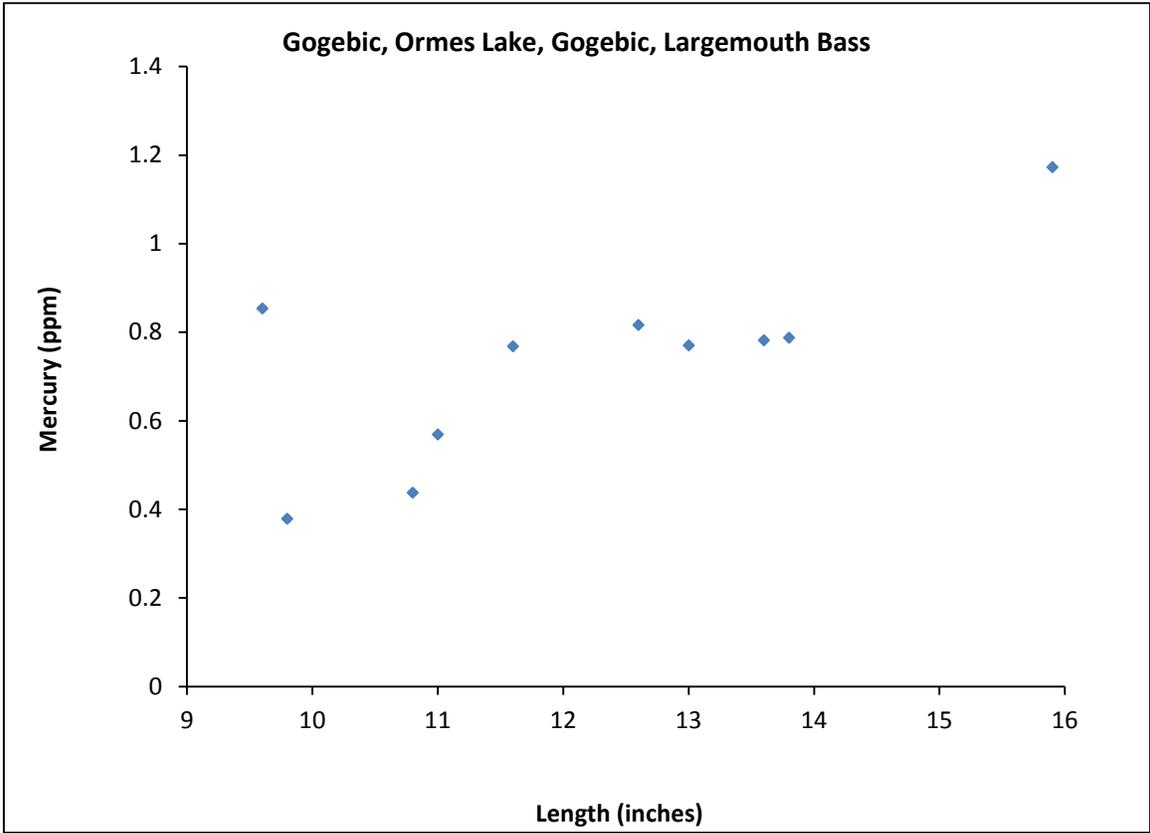
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2005	2005	10	9.6	14	13.6	15.9
Datasets available: 2005						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.73	0.37	1.17	0.9	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.541	0.493				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Ormes Lake largemouth bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Ormes Lake largemouth or smallmouth bass smaller than 18 inches or more than 6 meals per year of those fish larger than 18 inches due to mercury. The statewide length break was applied as the length range was limited.



Walleye

Pomeroy Lake

Gogebic County

Hg Analysis:

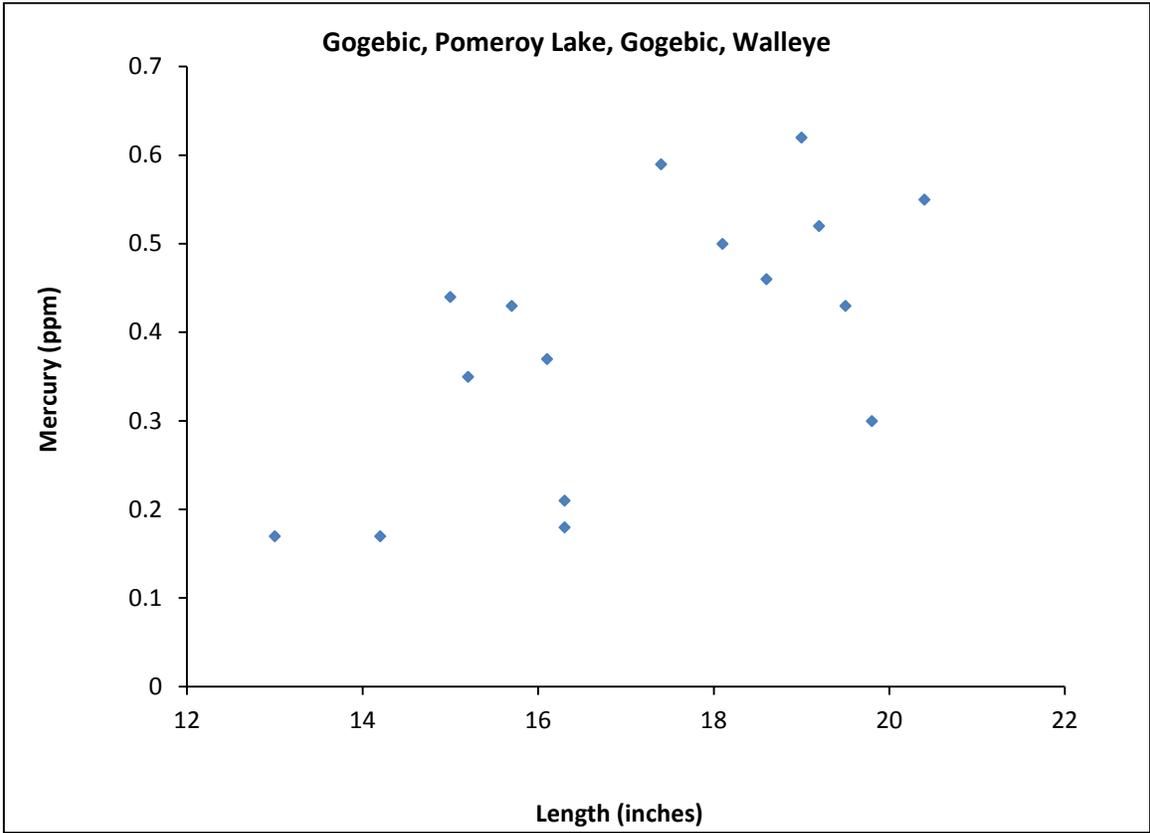
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1997	1999	16	13	15	15	20.4
Datasets available: 1997, 1999						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	14	0.42	0.18	0.62	0.50	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.400	0.412				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Women and children should not eat more than one meal per month of walleye greater than 18 inches from Pomeroy Lake.

Recommendation: No one should eat more than 2 meals per month of Pomeroy Lake walleye smaller than 20 inches or more than 1 meal per month of those fish larger than 20 inches due to mercury. The statewide length break was applied as the length range was limited.



Black Crappie

Sunday Lake

Gogebic County

Hg Analysis:

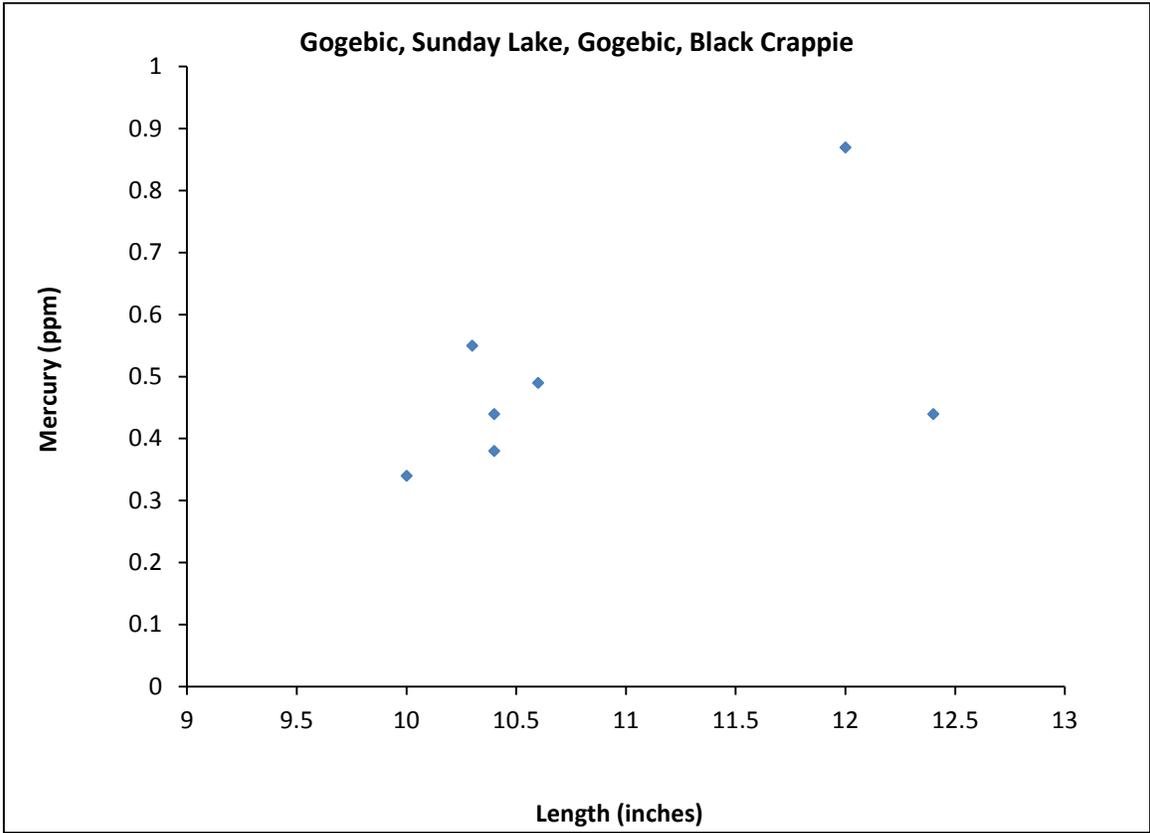
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2003	2003	7	10	na	10	12.4
Datasets available: 2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	7	0.50	0.34	0.87	0.66	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.282	0.281				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Sunday Lake black crappie are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Sunday Lake crappie due to mercury.



Northern Pike

Sunday Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Length Range of All Samples	
Earliest	Most Recent				Min	Max
2003	2003	8	16.2	24	16.2	20.1
Datasets available: 2003						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	8	0.864	0.590	1.220	1.040	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.731	0.797				

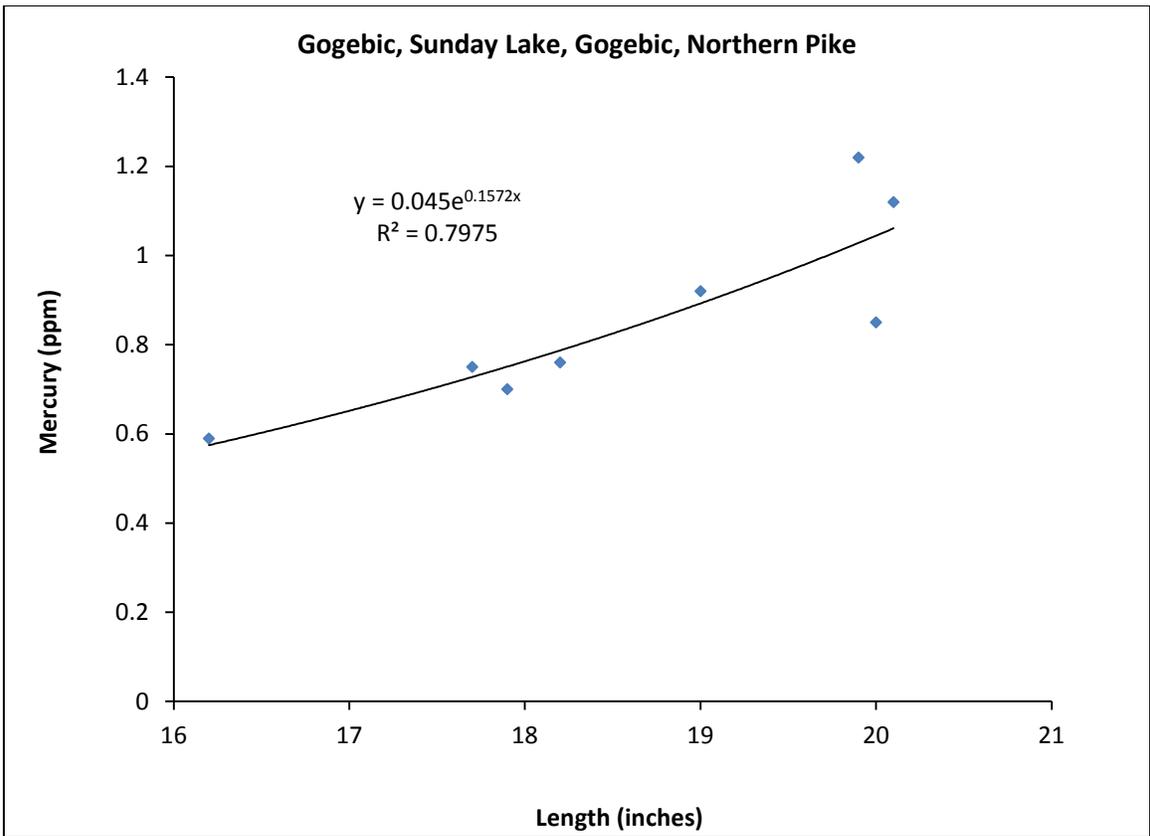
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Sunday Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat any Sunday Lake northern pike due to mercury. Dataset is limited by sublegal samples. Mercury concentrations in the sublegal samples are relatively high for the lengths, and the extrapolated region of the regression indicates that legal sized northern pike should not be eaten due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
16	0.56	1
18	0.76	1
20	1.04	1
22	1.43	0.5
24	1.96	0.5
26	2.68	0
28	3.67	0
30	5.03	0
32	6.88	0
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Sunday Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2003	2003	2	17.1	15	17.1	17.1
Datasets available: 2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	2	1.04	0.9	1.18	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Sunday Lake walleye are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. However, the 2 walleye samples suggest elevated mercury levels. No one should eat more than 1 meal per month of Sunday Lake walleye smaller than 20 inches or more than 6 meals per year of those fish larger than 20 inches due to mercury. The advice is one step more restrictive than the statewide advice for walleye.

Note: Northern pike and crappie from the same lake have relatively high Hg concentrations.

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2003	2003	3	10.2	na	10.2	12
Datasets available: 2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	3	0.67	0.61	0.77	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Sunday Lake yellow perch are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. However, other fish from that lake have relatively high levels of mercury. No one should eat more than 2 meals per month of Sunday Lake yellow perch due to mercury. The advice is one step more restrictive than the statewide advice.

Note: Northern pike and crappie from the same lake had relatively high Hg concentrations.

Walleye

Thousand Island Lake

Gogebic County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1999	1999	10	15.8	15	15.8	26.7
Datasets available: 1999						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.51	0.27	1.05	0.69	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.632	0.621				

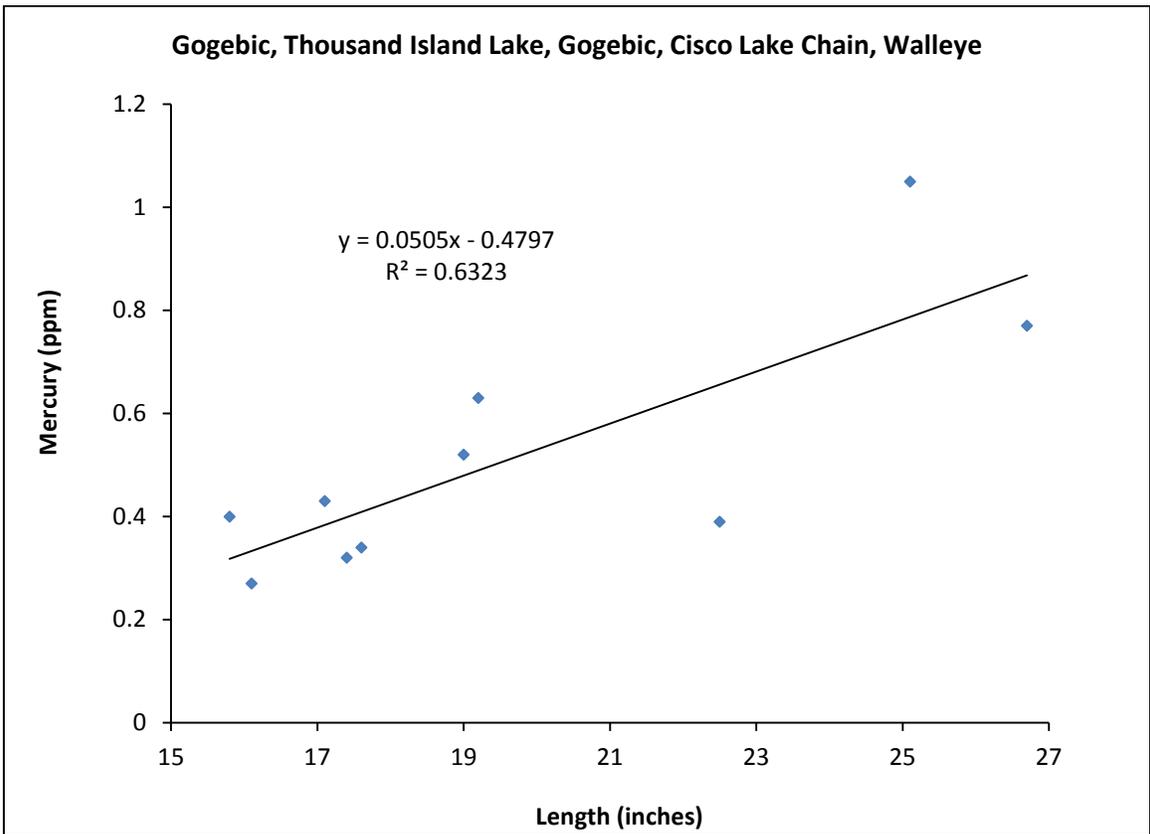
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Women and children should not eat more than one meal per month of Thousand Island Lake walleye larger than 18 inches.

Recommendation: No one should eat more than 2 meals per month of Thousand Island Lake walleye smaller than 20 inches or more than 1 meal per month of those fish larger than 20 inches due to mercury. Statewide length break and regression agree.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
15	0.28	2
17	0.38	2
19	0.48	2
20	0.53	1
23	0.68	1
25	0.78	1
27	0.88	1
<i>Shaded area denotes extrapolated estimates</i>		



Houghton County

Walleye

Bob Lake

Houghton County

Hg Analysis:

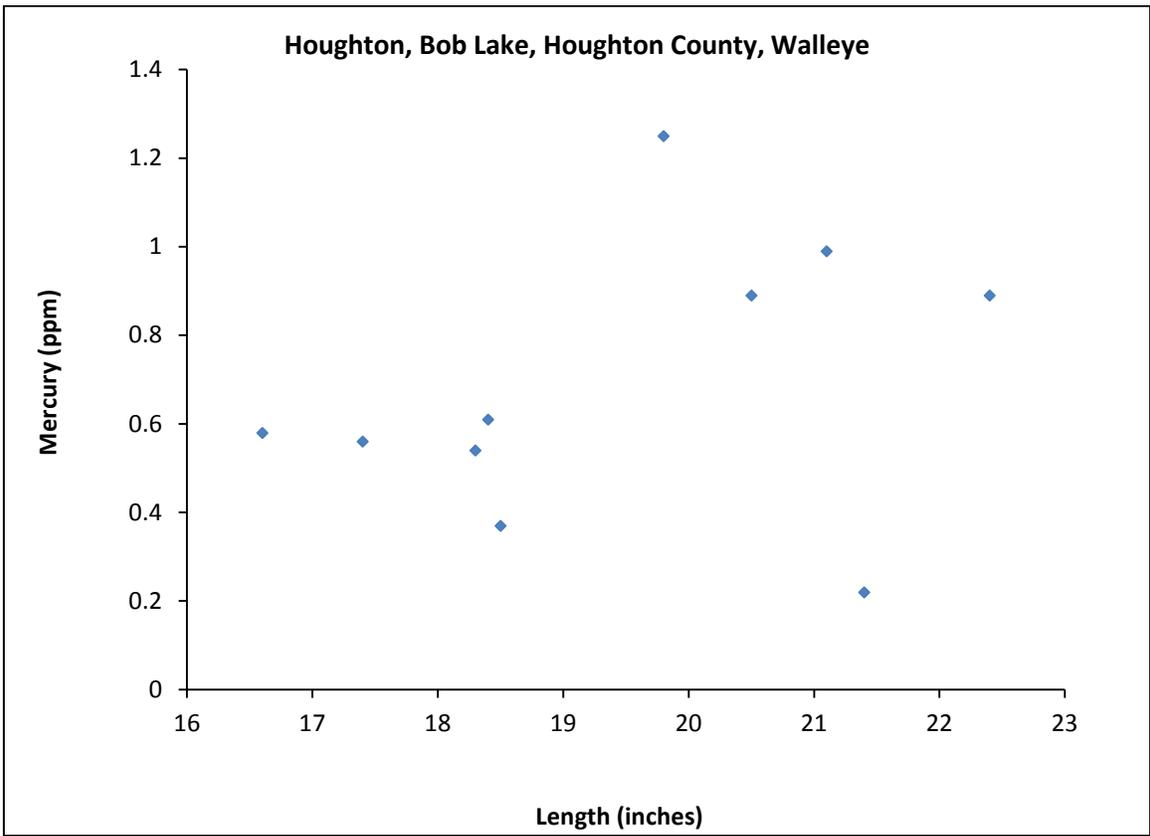
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
2001	2001	10	16.6	15	16.6	22.4		
Datasets available:		2001						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
Mercury	10	0.69	0.22	1.25	0.91	1		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	0.106	0.030						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	--	--	--	--	--		
Datasets available:		--						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
PCB	0	--	--	--	--	--		
DDT	0	--	--	--	--	--		
Chlordane	0	--	--	--	--	--		
Toxaphene	0	--	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
Final meal category based on UCL:						1		

Existing Advisory: Bob Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Bob Lake walleye due to mercury.



White Sucker

Boston Pond

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2000	2000	10	12.1	na	12.1	14.4
Datasets available: 2000						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.02	0.01	0.04	0.03	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.368	0.523				

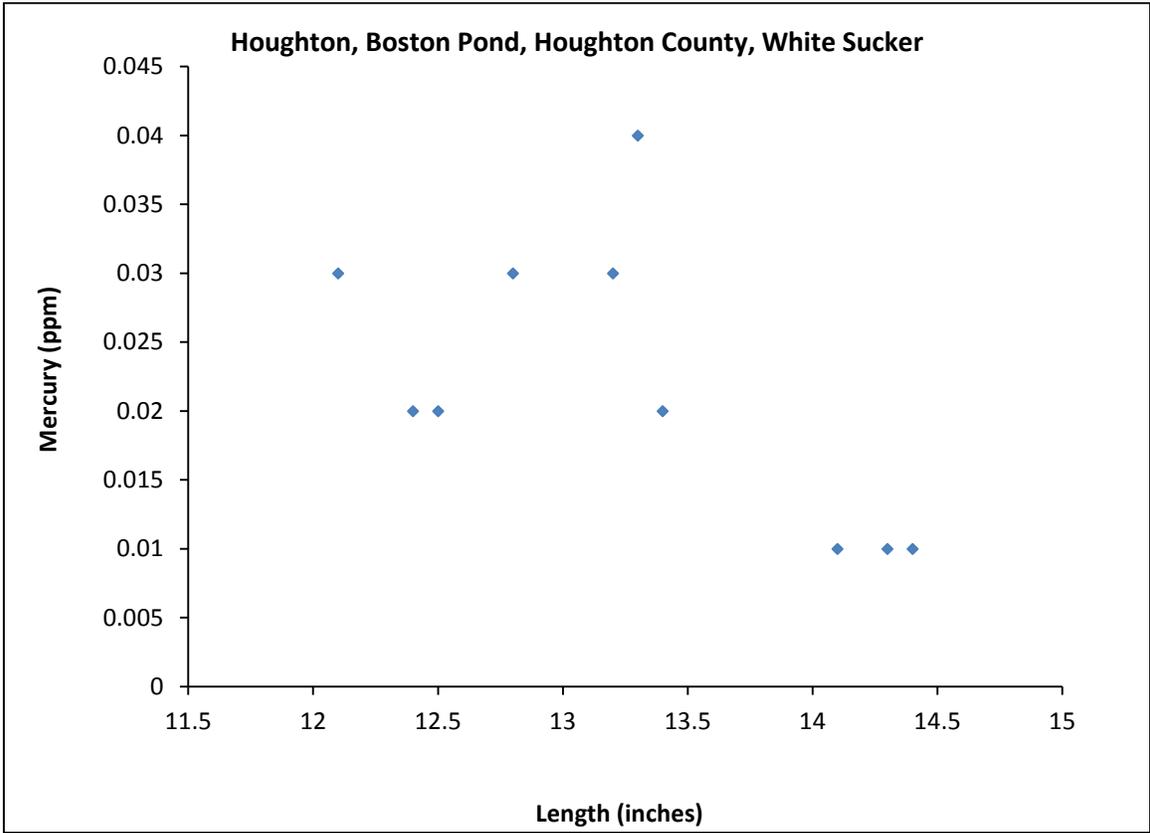
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2000	2000	10	12.1	NA	12.1	14.4
Datasets available: 2000						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	ND	--	--	--	--
DDT	10	0.003*	0.003	0.003	0.003	--
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						16

* - 2 samples at detection level of 0.003 ppm

Existing Advisory: Boston Pond white sucker have no existing advisory.

Recommendation: No consumption restrictions are needed for Boston Pond sucker.



Yellow Perch

Boston Pond

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2000	2000	10	8	NA	8	13.6
Datasets available: 2000						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.07	0.05	0.12	0.09	12
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.717	0.693				

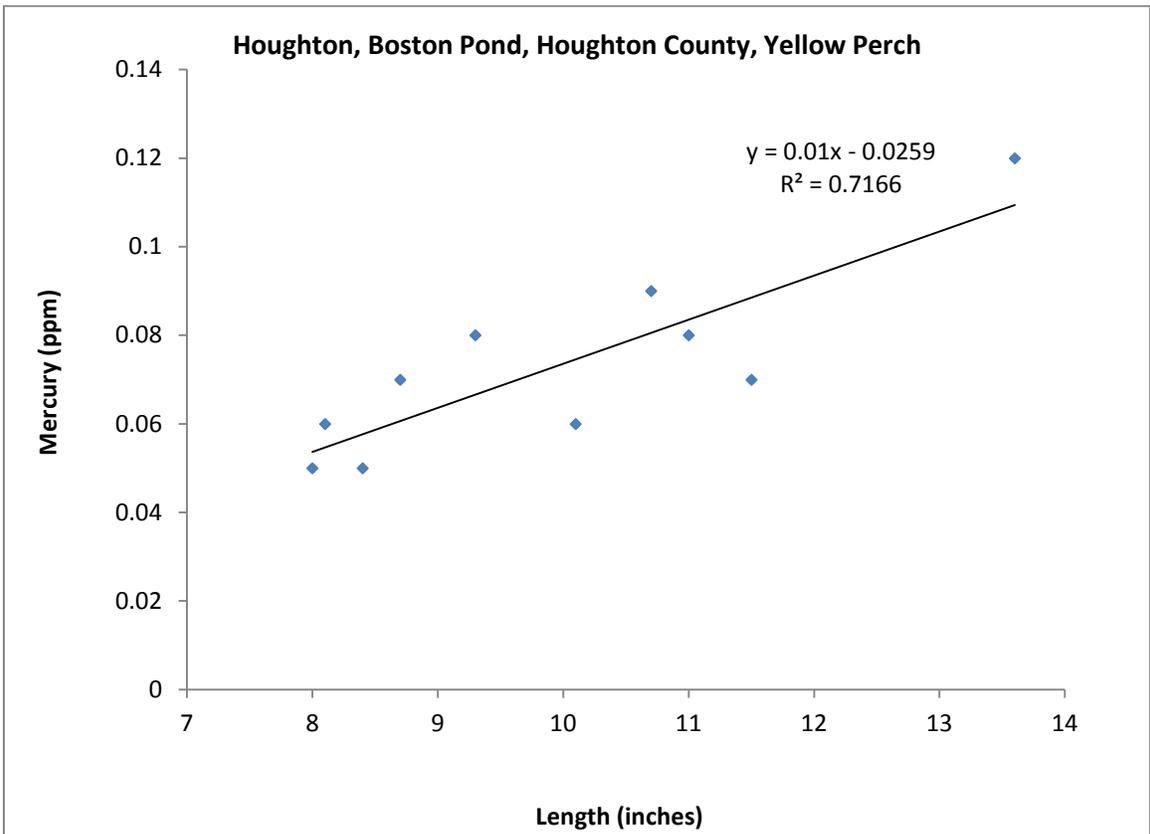
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2000	2000	10	8	NA	8	13.6
Datasets available: 2000						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	ND	--	--	--	--
DDT	10	ND	--	--	--	--
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						12

Existing Advisory: Women and children have no eating restrictions on Boston Pond yellow perch.

Recommendation: No one should eat 12 meals per month of Boston Pond yellow perch smaller than 12 inches or more than 8 meals per month of yellow perch larger than 12 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
8	0.05	16
9	0.06	16
10	0.07	12
11	0.08	12
12	0.09	8
13	0.10	8
14	0.11	8
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Emily Lake

Houghton County

Hg Analysis:

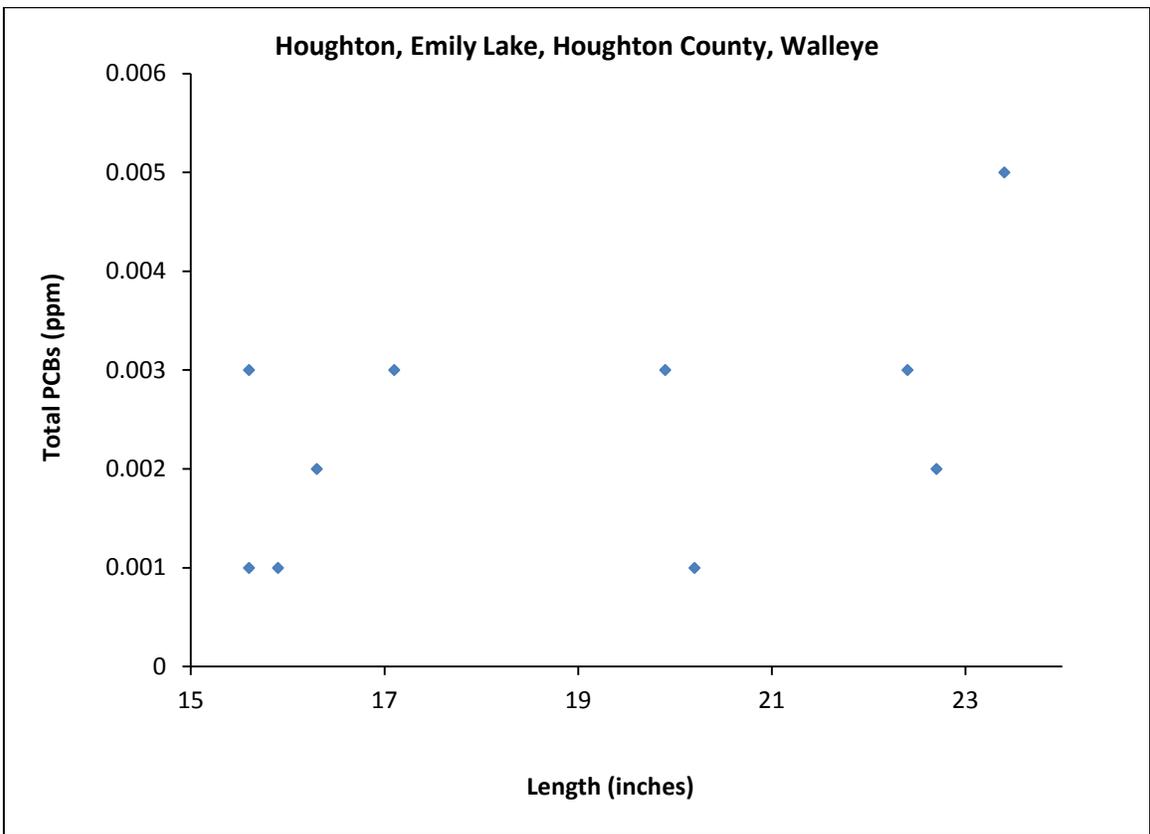
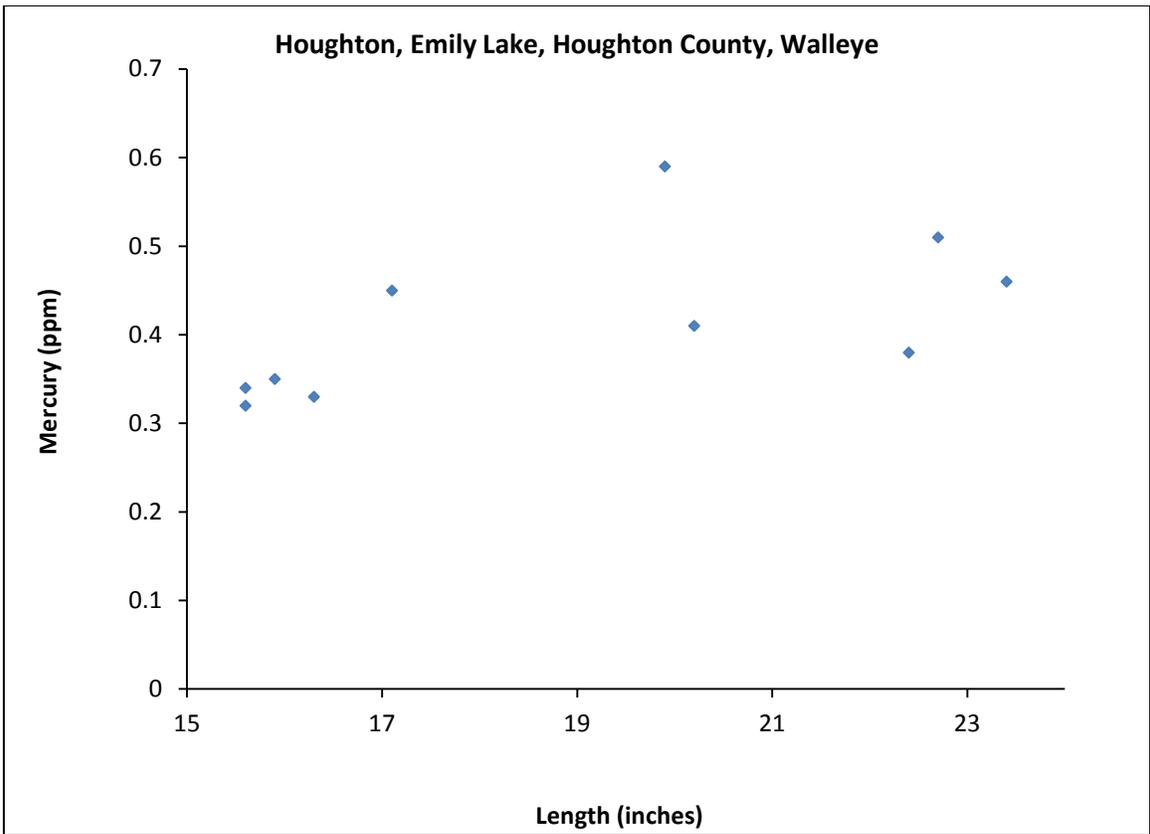
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2002	2002	10	15.6	15	15.6	23.4
Datasets available: 2002						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.41	0.32	0.59	0.48	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.366	0.415				

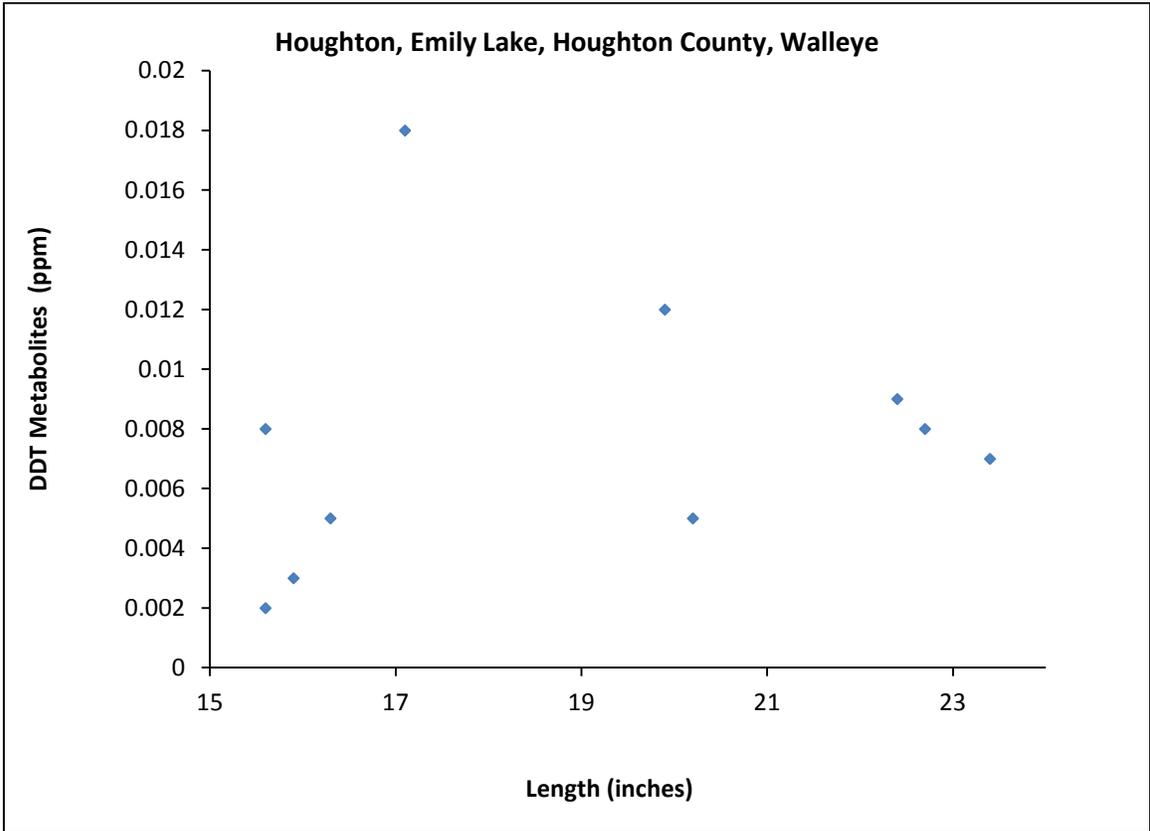
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2002	2002	10	15.6	15	15.6	23.4
Datasets available: 2002						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	0.002	0.001	0.005	0.000	16
DDT	10	0.008	0.002	0.018	0.010	16
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.245	0.204				
DDT	0.032	0.141				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Emily Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Emily Lake walleye due to mercury.





Walleye

Otter Lake

Houghton County

Hg Analysis:

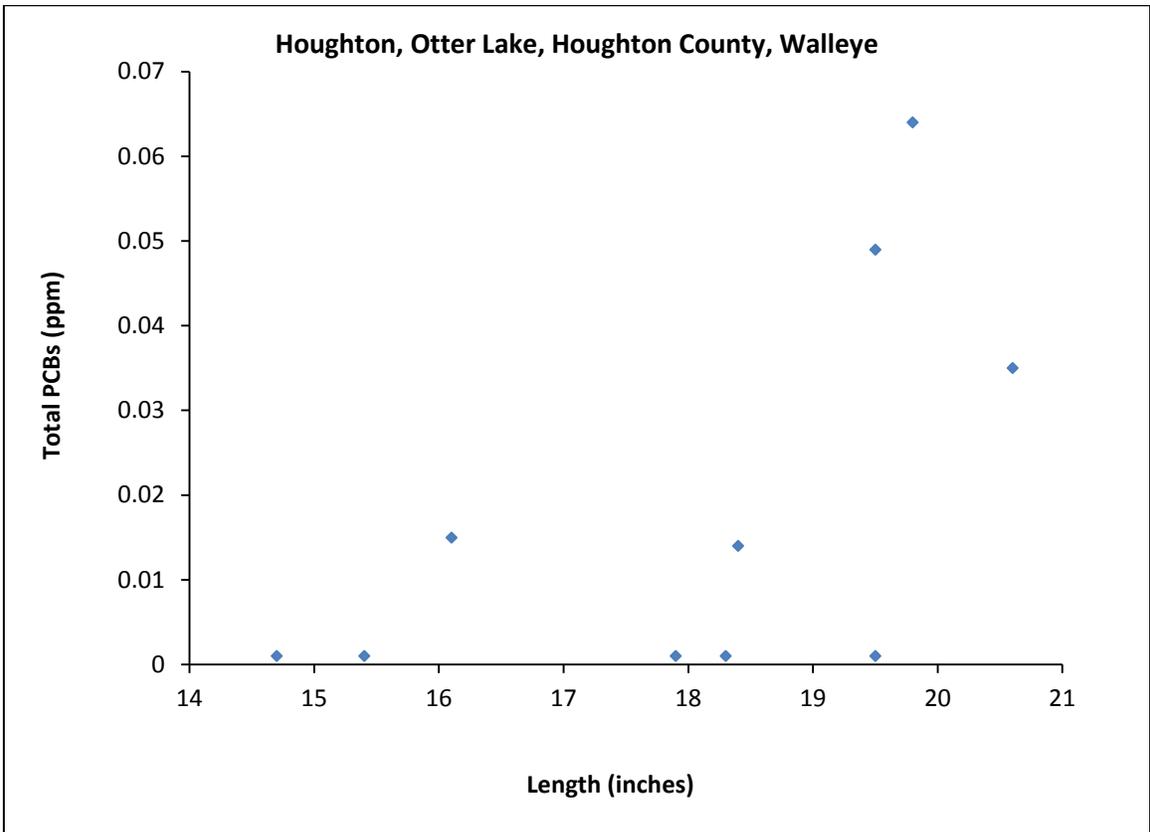
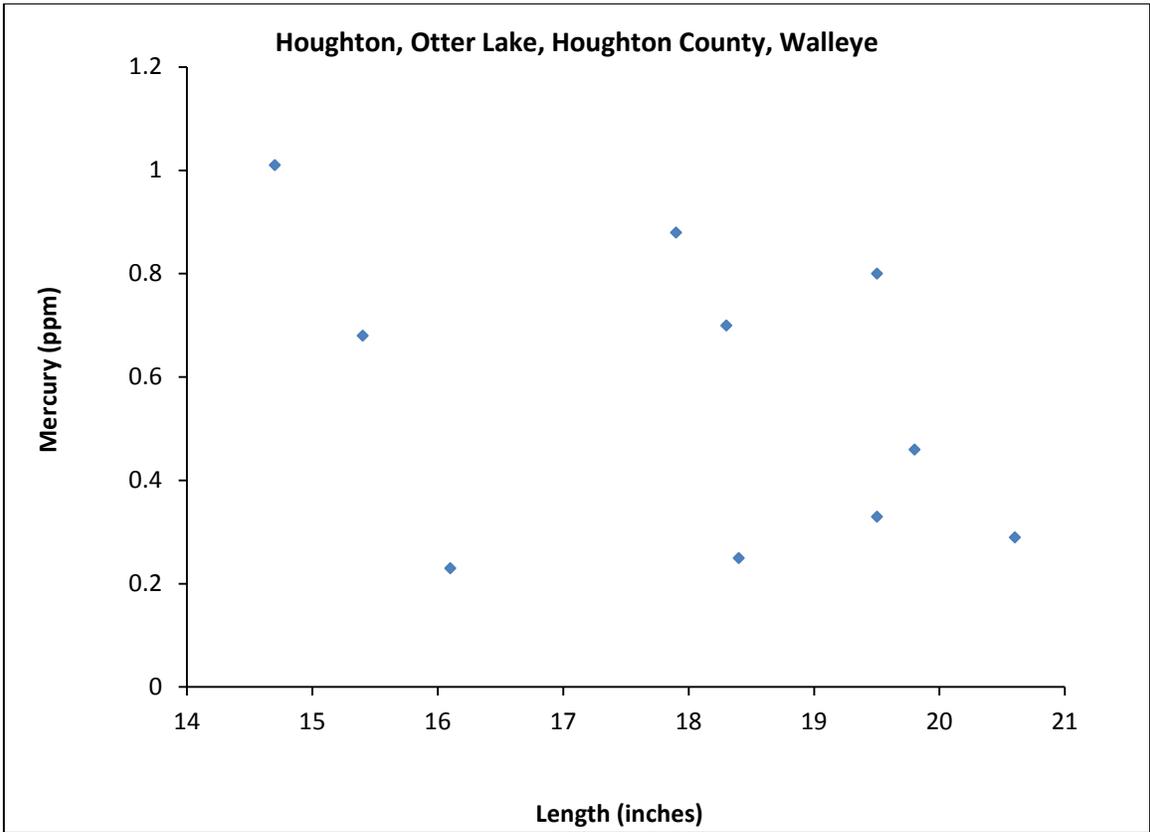
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2000	2000	10	14.7	15	14.7	20.6
Datasets available: 2000						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.56	0.23	1.01	0.77	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.174	0.112				

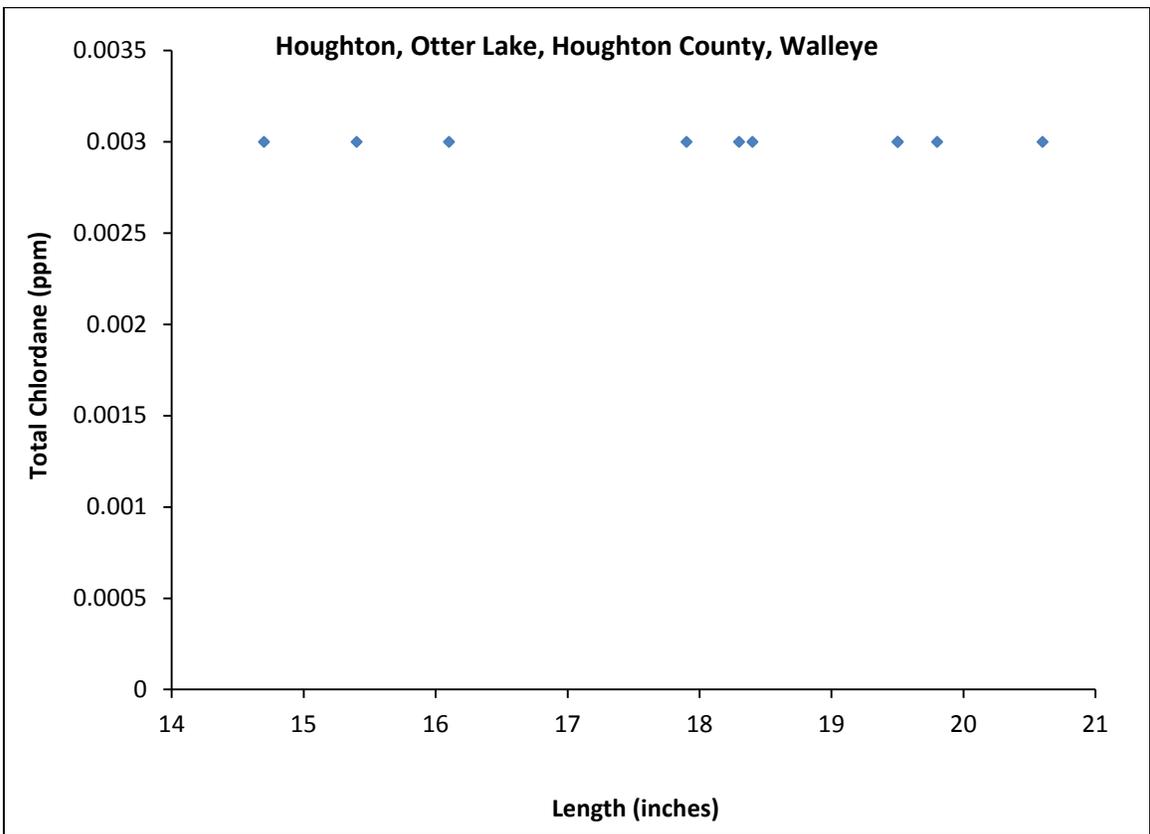
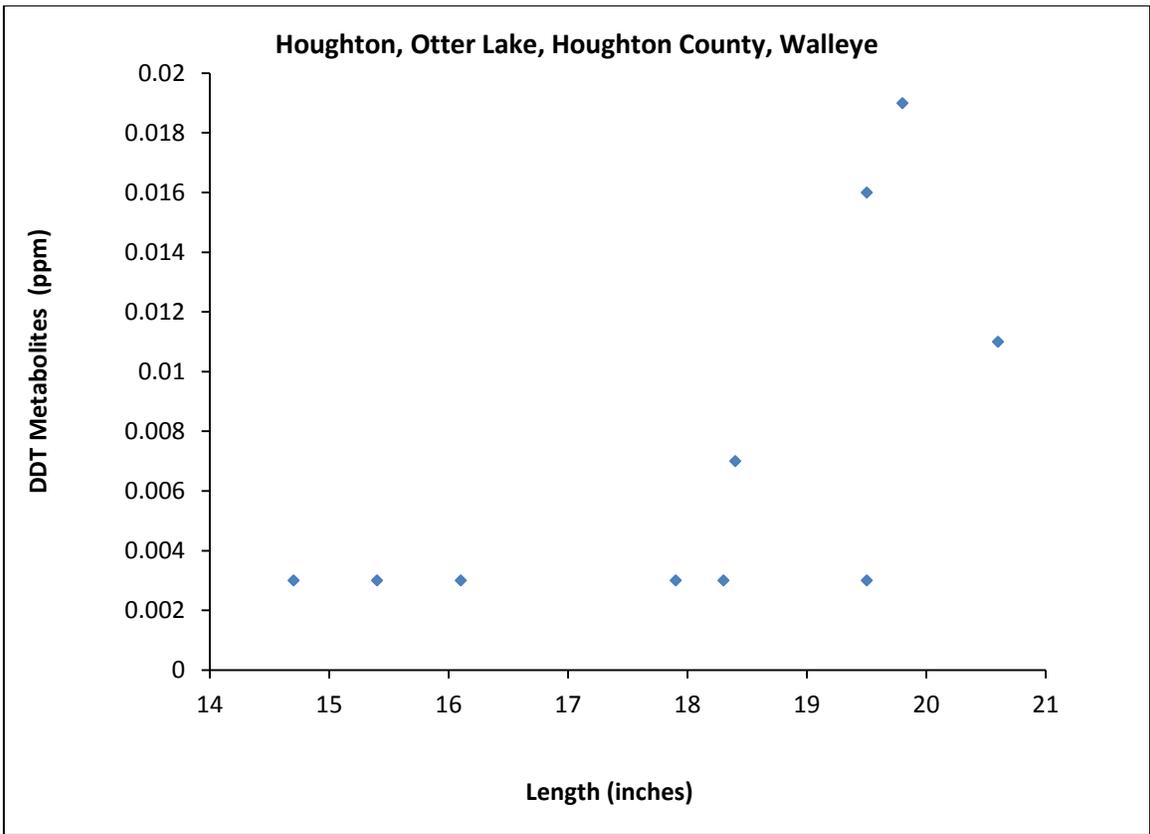
Organics Analysis:

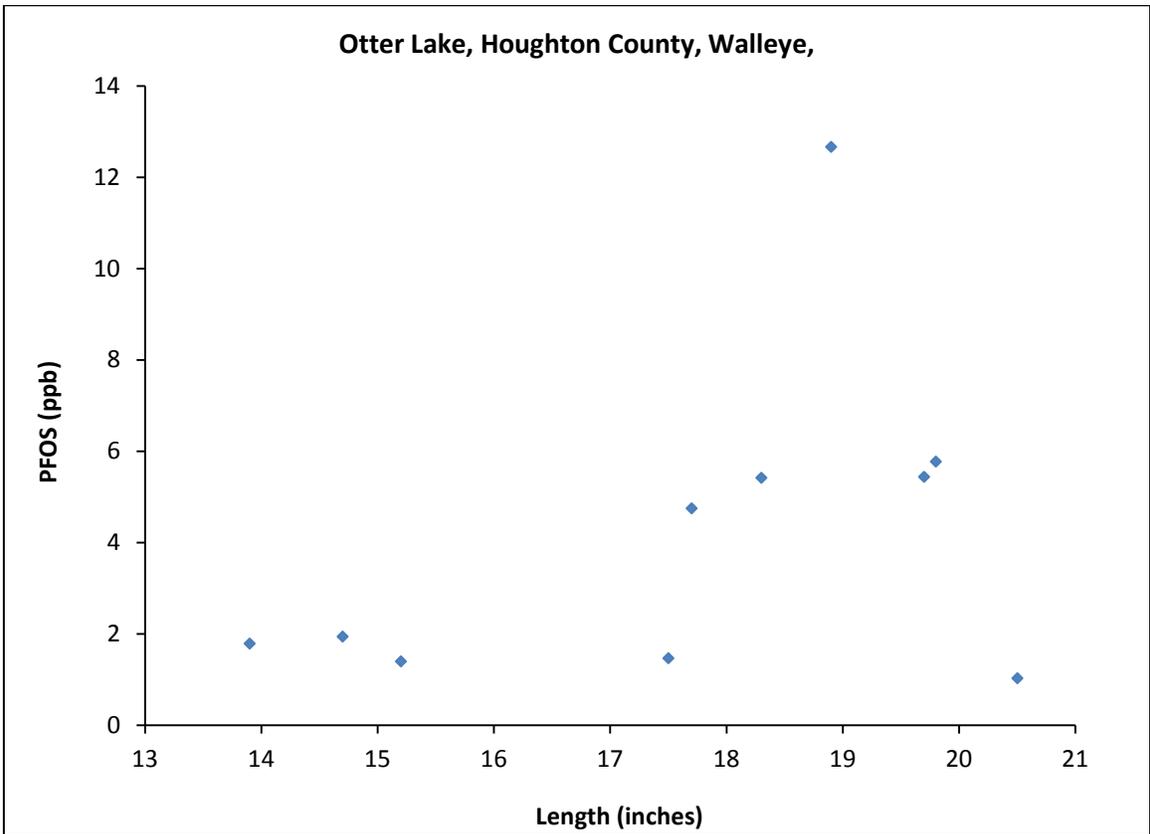
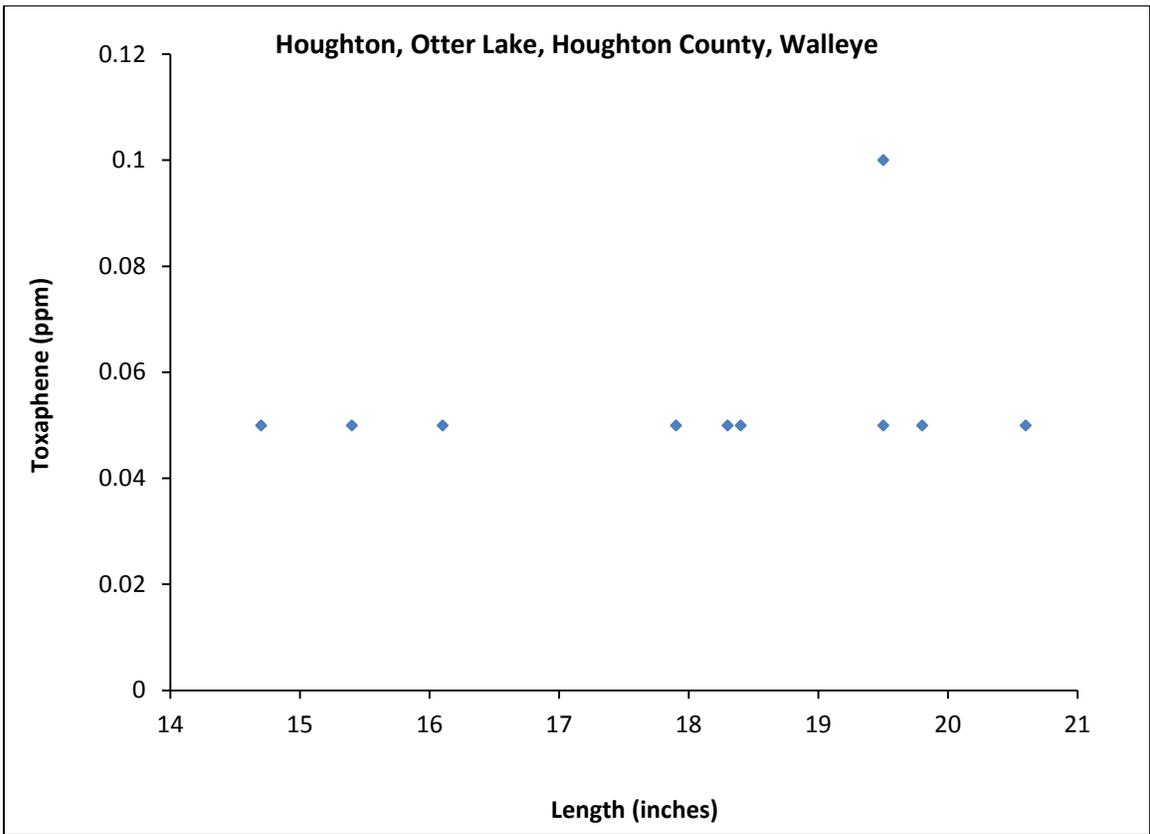
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2000	2010	10	14.7	15	14.7	20.6
Datasets available: 2000, 2010						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	0.02	0.001	0.064	0.03	8
DDT	10	0.007	0.003	0.019	0.01	16
Chlordane	10	0.003	0.003	0.003	0.003	--
Toxaphene	10	0.06	0.05	0.10	0.07	4
PFOS	9	4.4 ppb	1.0 ppb	12.7 ppb	7.2 ppb	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.356	0.298				
DDT	0.402	0.458				
Chlordane	--	--				
Toxaphene	0.068	0.068				
PFOS	0.180	0.168				
Final meal category based on UCL:						1

Existing Advisory: Otter Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Otter Lake walleye smaller than 20 inches or more than 6 meals per year of those fish larger than 20 inches due to mercury. Statewide length break was applied as the size range was limited. PCBs and toxaphene would cause advisories.







White Sucker

Otter Lake

Houghton County

Hg Analysis:

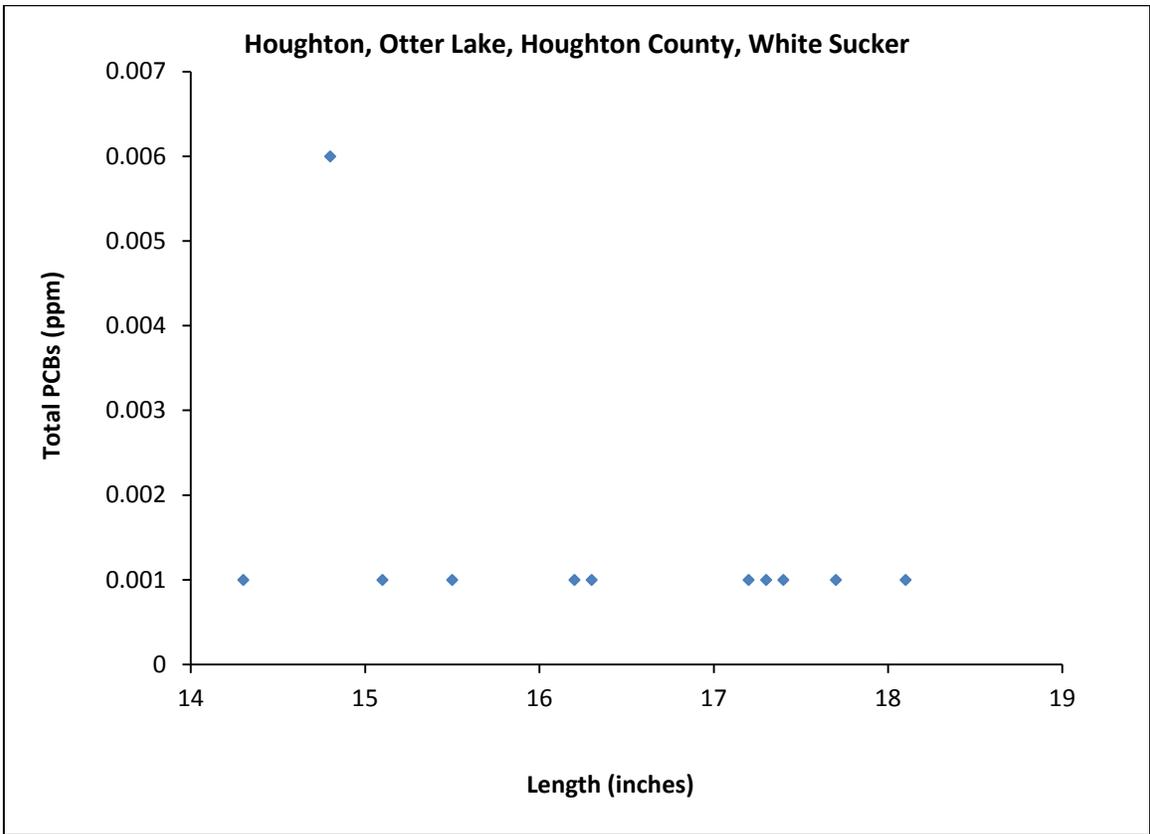
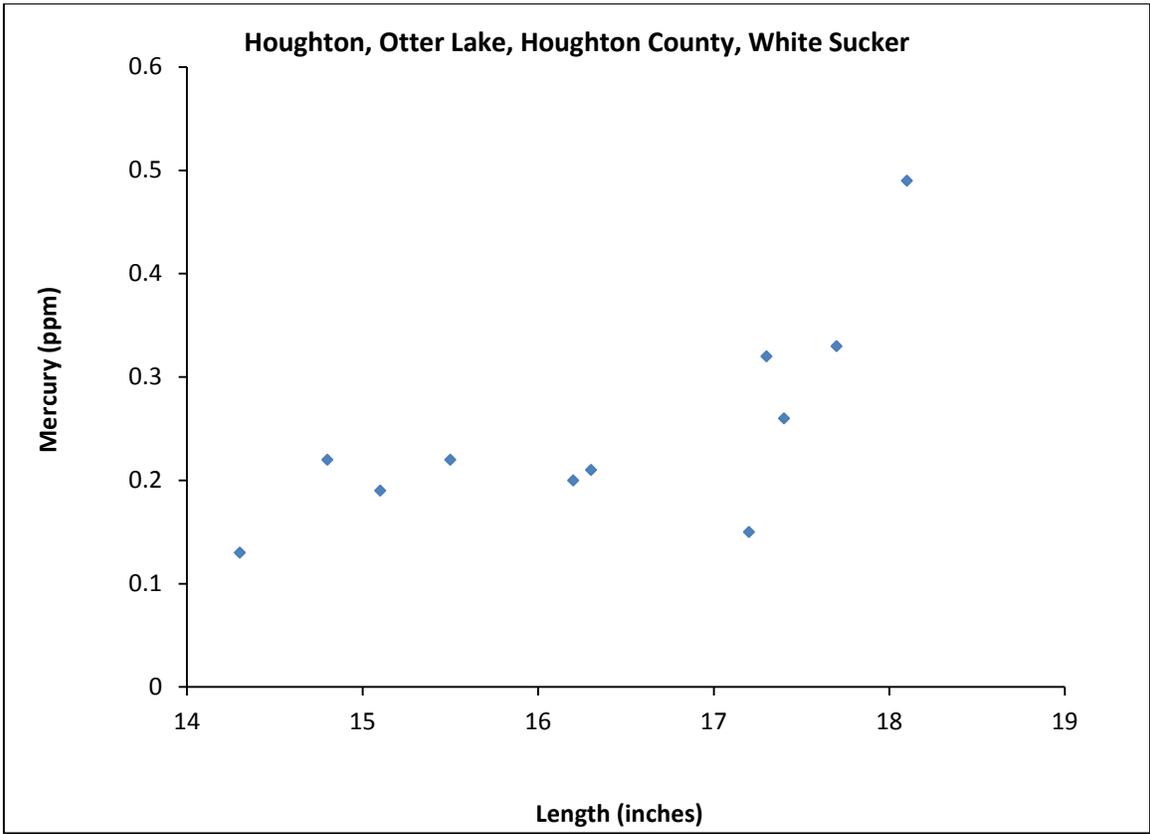
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2000	2000	11	14.3	na	14.3	18.1
Datasets available: 2000						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	11	0.25	0.13	0.49	0.32	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.501	0.508				

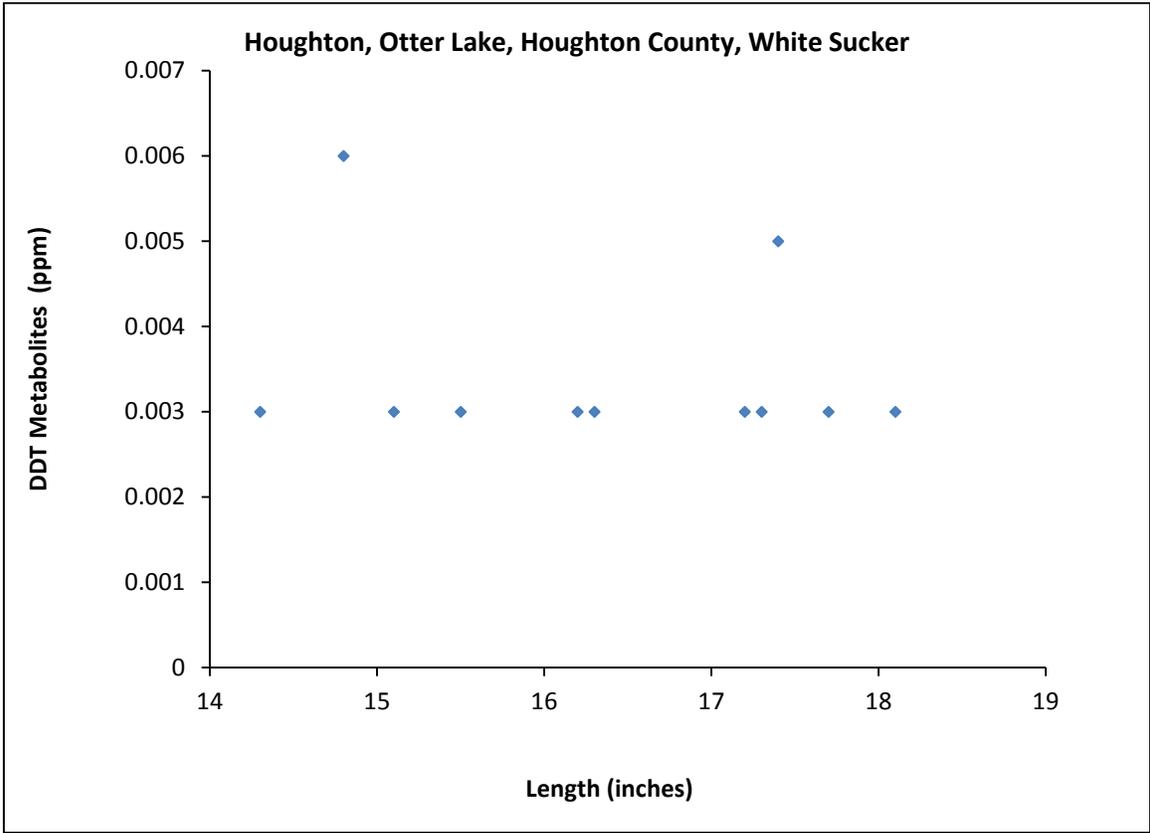
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2000	2000	11	14.3	NA	14.3	18.1
Datasets available: 2000						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	11	0.001	0.001	0.006	0.000	16
DDT	11	0.003	0.003	0.006	0.000	16
Chlordane	11	ND	--	--	--	--
Toxaphene	11	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.161	0.161				
DDT	0.037	0.029				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Otter Lake white sucker have no existing advisories.

Recommendation: No one should eat more than 2 meals per month of Otter Lake sucker due to mercury.





Northern Pike

Pike Lake

Houghton County

Hg Analysis:

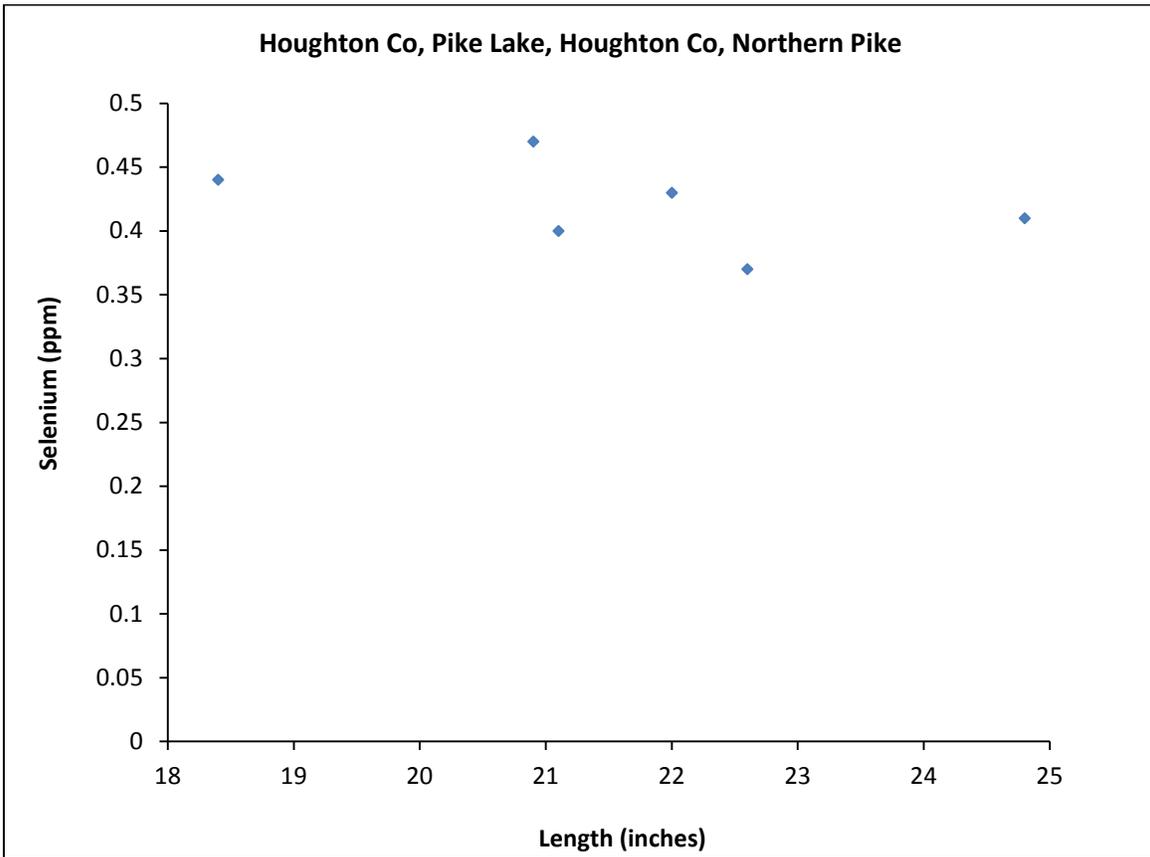
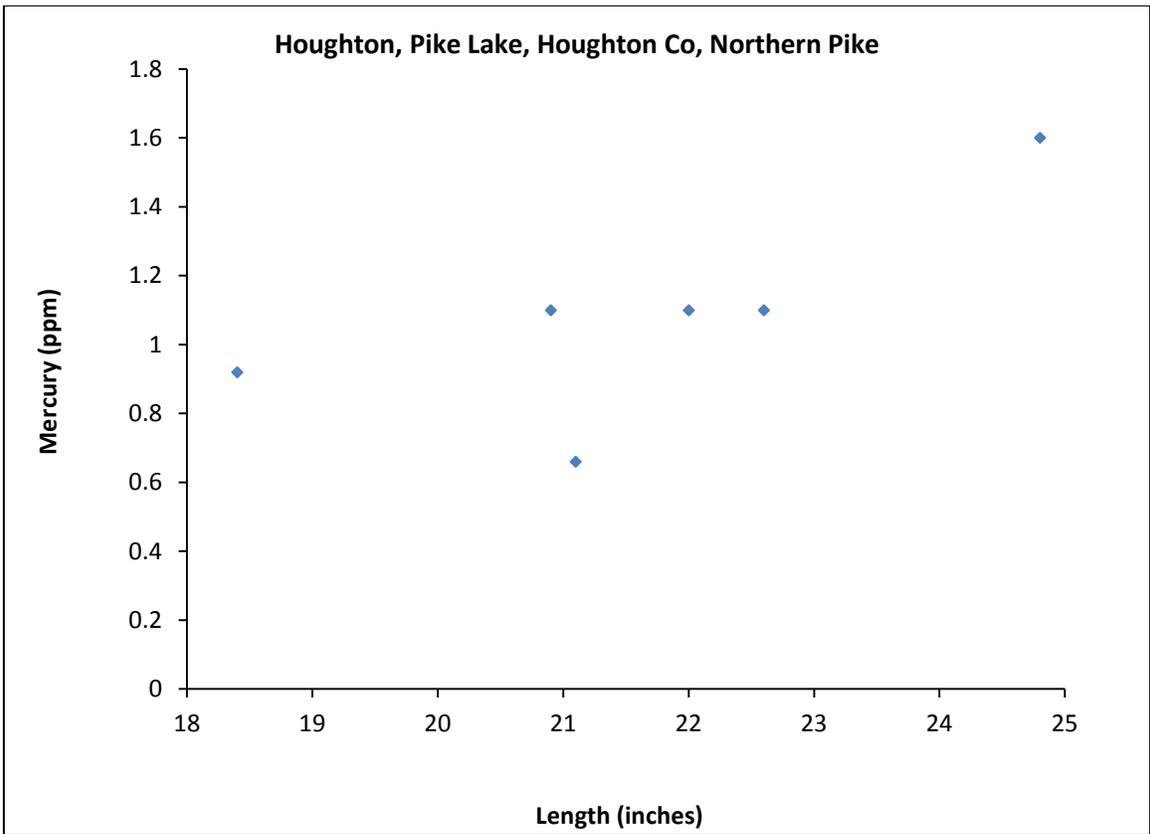
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2007	2007	6	18.4	24	24.8	24.8
Datasets available: 2007						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	1.08	0.66	1.6	1.4	0.5
Selenium	6	0.42	0.37	0.47	0.46	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.544	0.445				
Selenium	0.208	0.205				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						0.5

Existing Advisory: Pike Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat any Pike Lake northern pike larger than 30 inches or more than 6 meals per year of those fish smaller than 30 inches due to mercury. Statewide length break was applied as the size range was limited.



Brown Trout

Portage Lake

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	10	13.2	10	13.2	26.5
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.19	0.1	0.44	0.28	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.251	0.238				

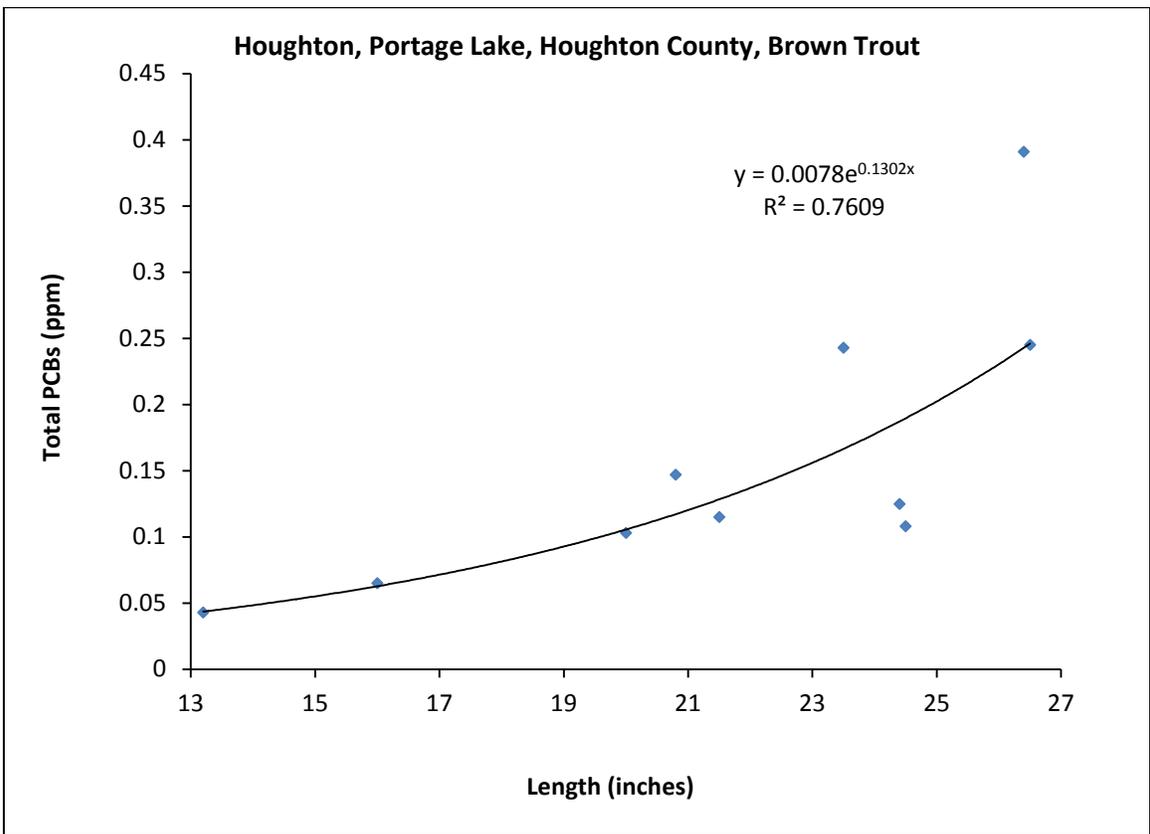
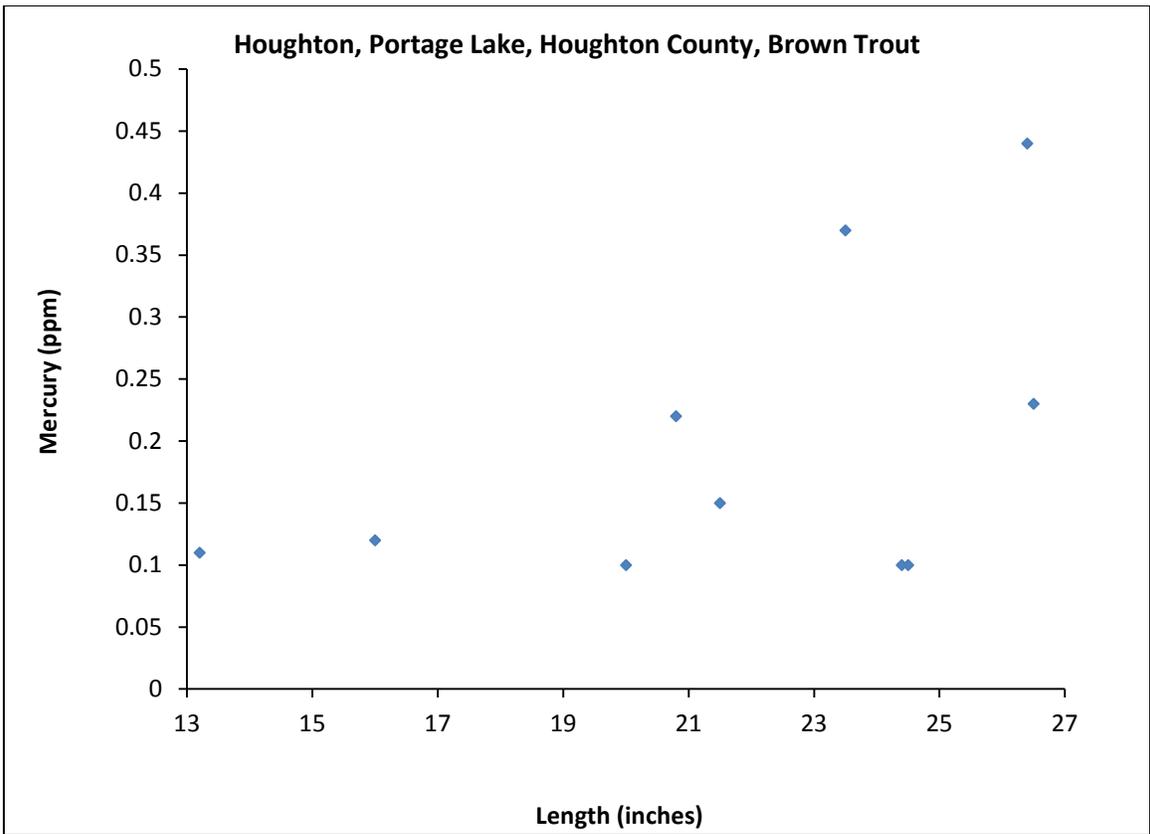
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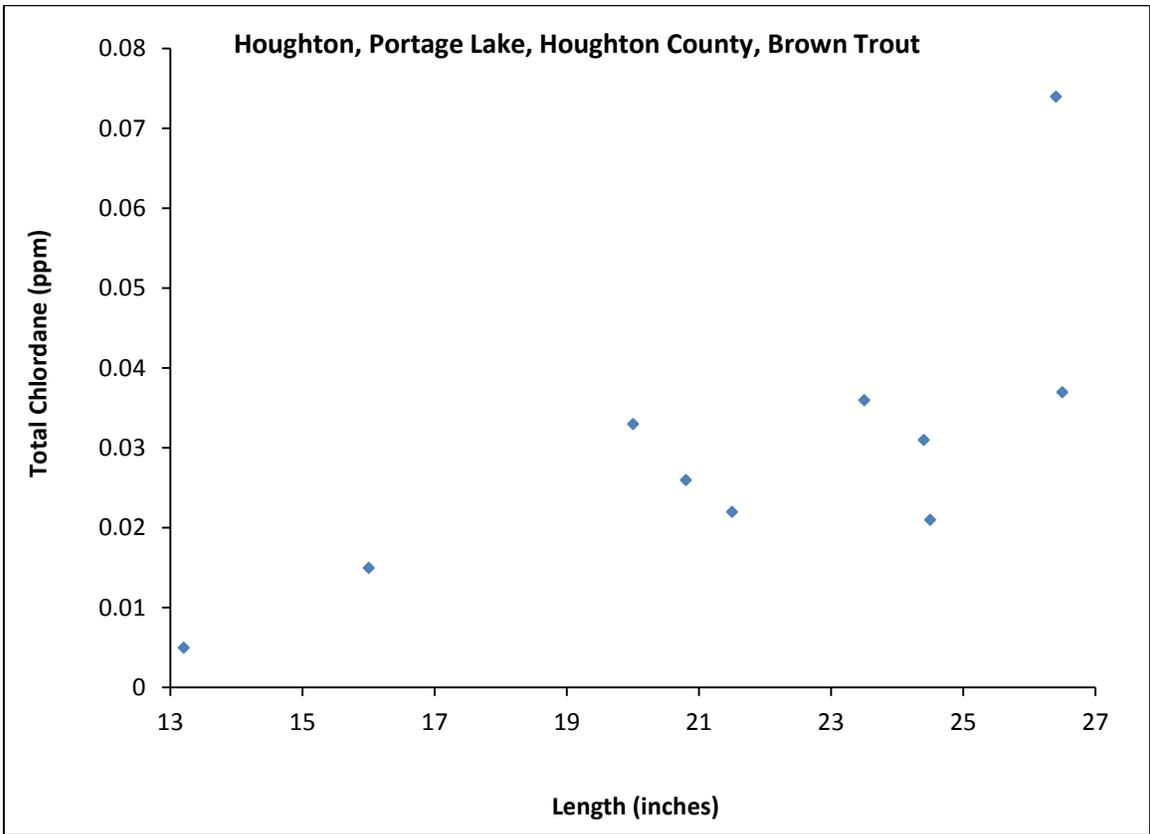
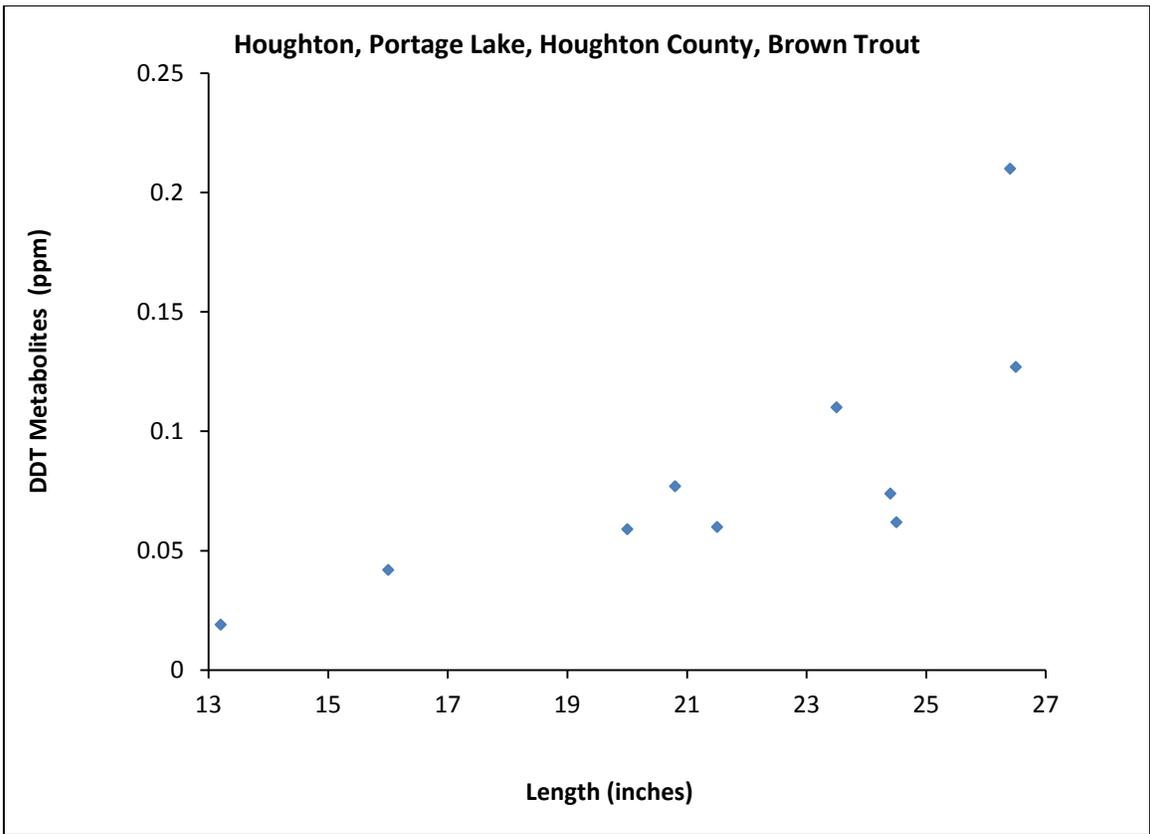
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	10	13.2	10	13.2	26.5
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	0.16	0.043	0.391	0.23	0.5
DDT	10	0.08	0.019	0.21	0.12	12
Chlordane	10	0.03	0.005	0.074	0.04	--
Toxaphene	10	0.18	0.05	0.35	0.25	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.546	0.761				
DDT	0.569	0.799				
Chlordane	0.530	0.737				
Toxaphene	0.402	0.367				
Final meal category based on UCL:						0.5*

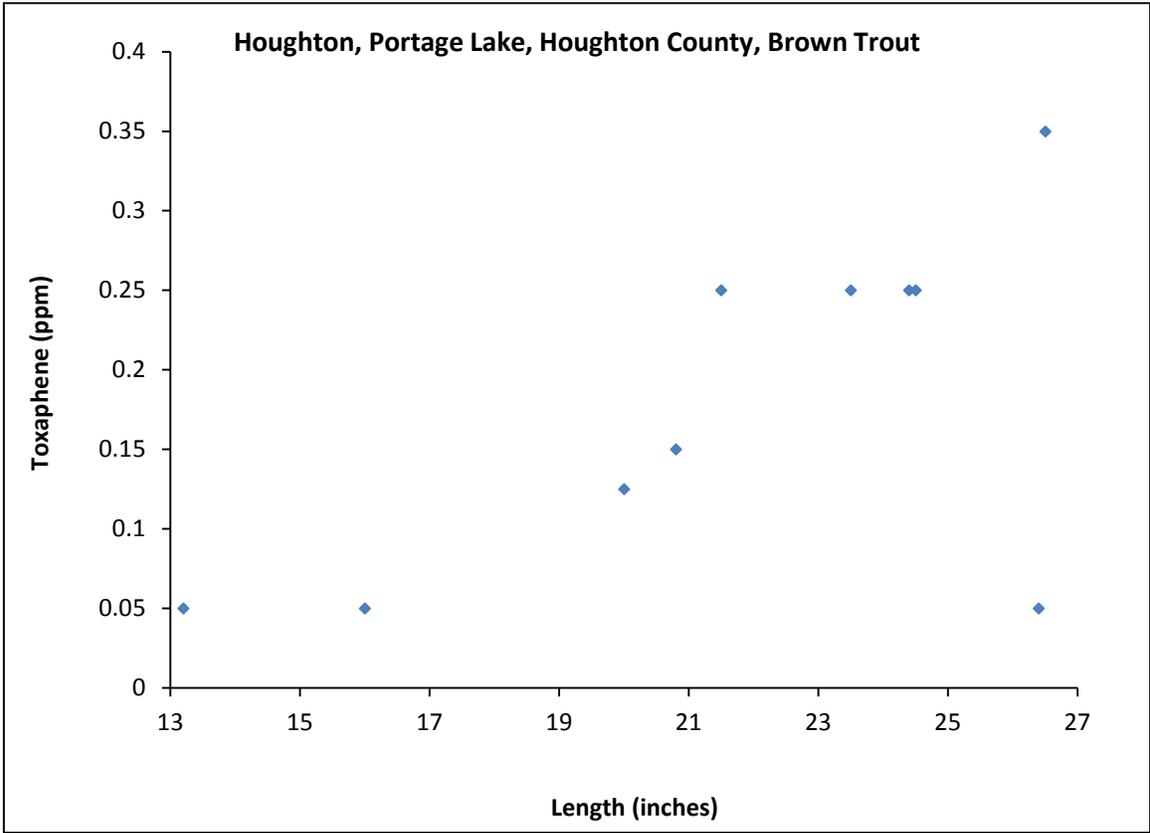
Existing Advisory: Women and children should not eat more than one meal per week of Portage Lake brown trout smaller than 22 inches and no more than one meal per month of brown trout larger than 22 inches due to PCBs.

Recommendation: No one should eat more than 2 meals per month of Portage Lake brown trout smaller than 20 inches due to mercury or more than 2 meals per month of those fish larger than 20 inches due to mercury and PCBs. DDT and toxaphene would cause advisories. The quality of this dataset is limited due to the age of the data. *Based on the MDEQ Fish Contaminant Monitoring Program, PCB, DDT, and toxaphene concentrations ≥15 years old are expected to have declined to concentrations that allow a less restrictive meal category.

Length (Inches)	PCB Regression Equation Estimate (ppm)	Meal Category*
13	0.04	4
15	0.05	4
17	0.07	2
19	0.09	2
20	0.11	2
21	0.12	1
23	0.16	1
25	0.20	1
27	0.26	0.5
<i>Shaded area denotes extrapolated estimates</i>		







Northern Pike

Portage Lake

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	9	19.6	24	23.5	37.5
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.27	0.16	0.43	0.40	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.181	0.182				

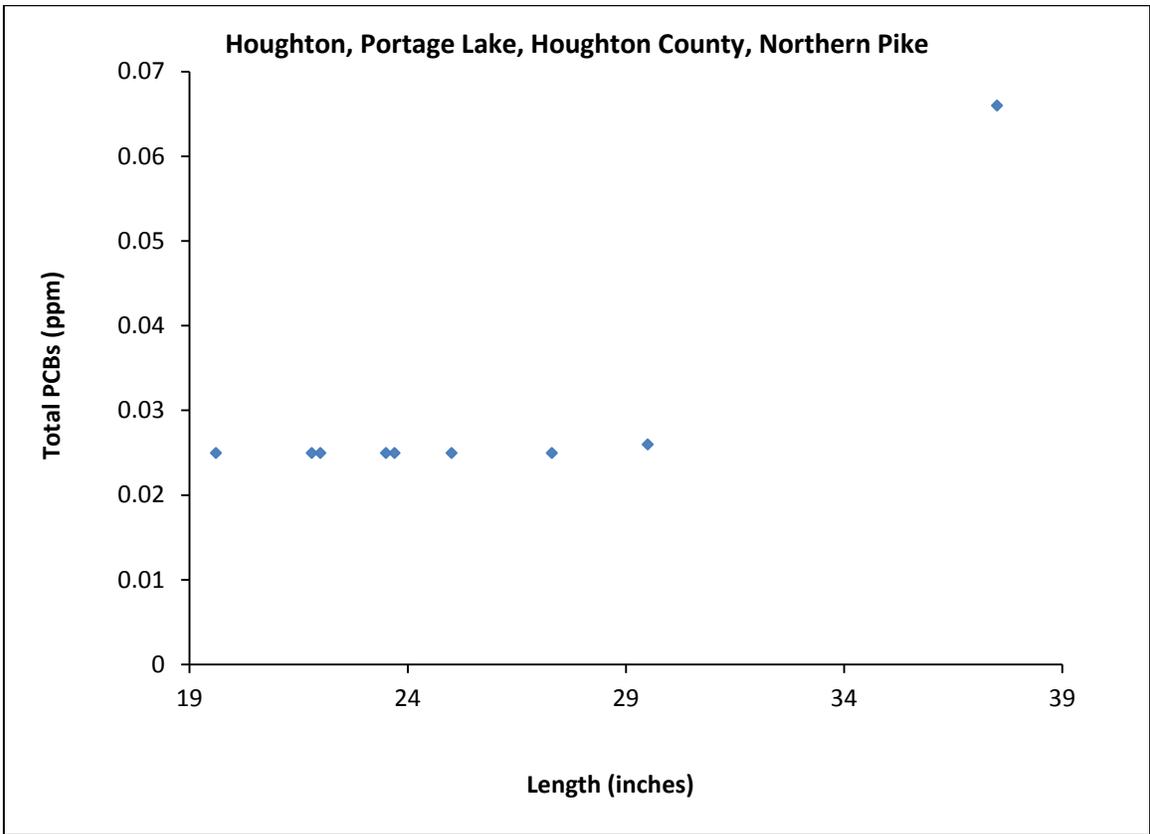
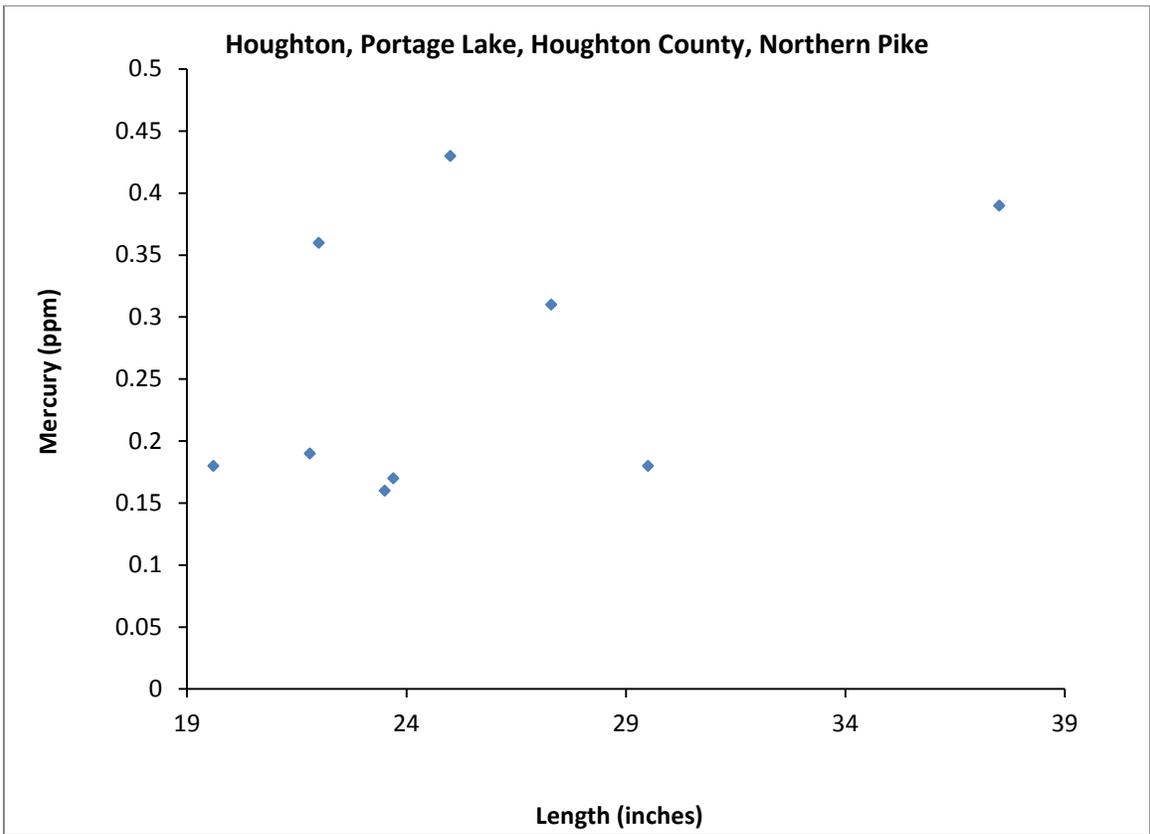
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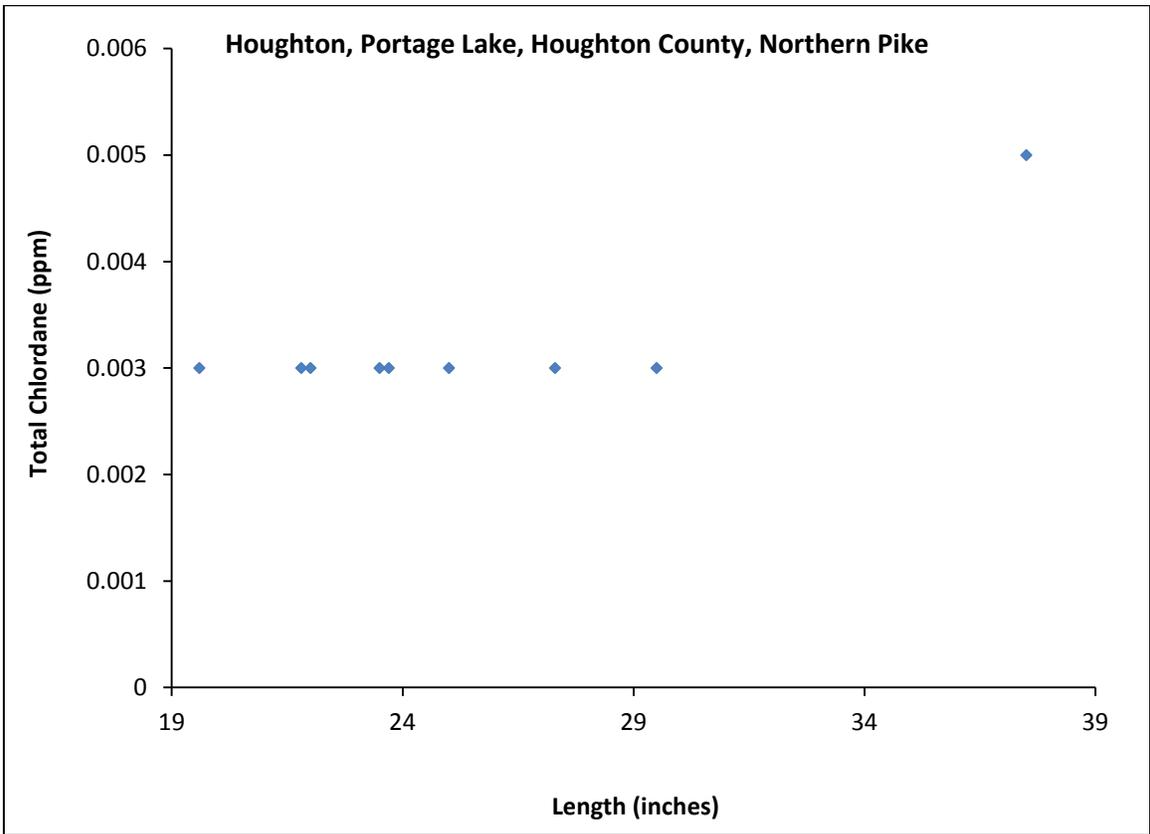
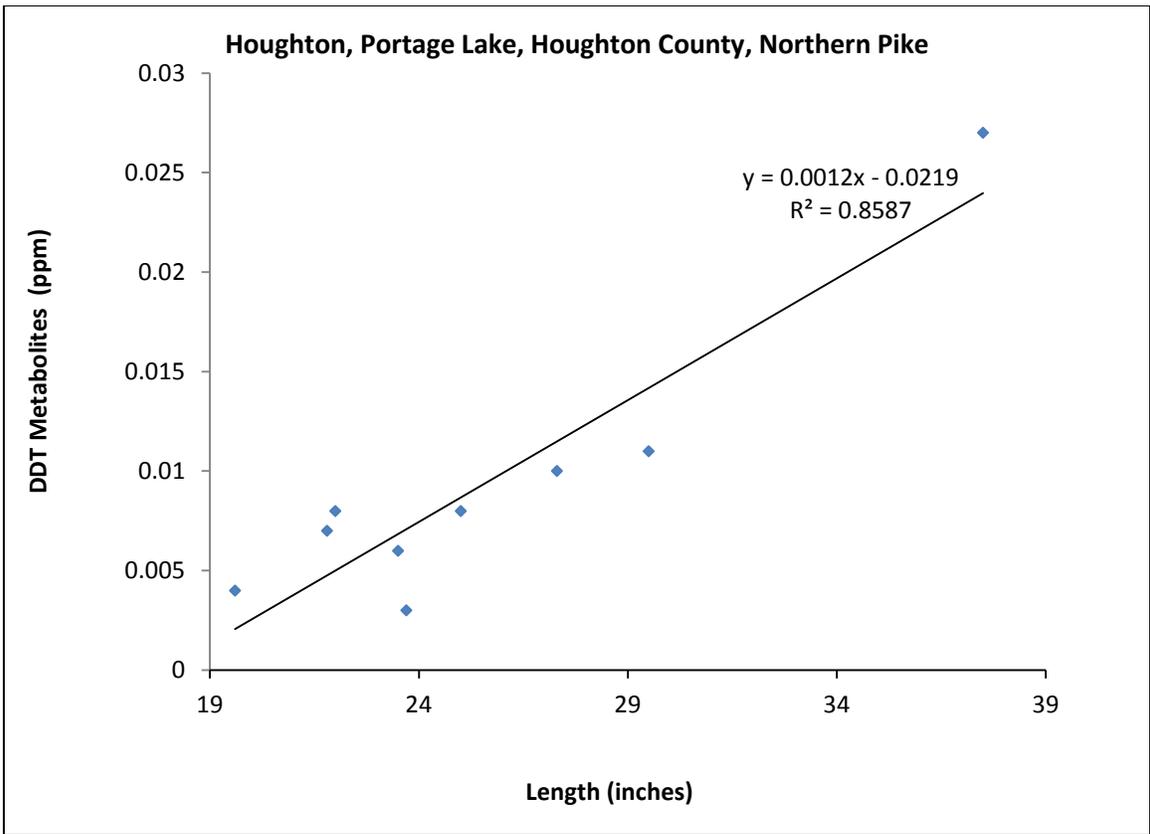
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	9	19.6	24	23.5	37.5
Datasets available: 1988						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	9	0.03	0.025	0.066	0.040	4
DDT	9	0.009	0.003	0.027	0.010	16
Chlordane	9	0.003	0.003	0.005	0.00	--
Toxaphene	9	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.710*	0.720*	*Regression not used, due to slopes for PCBs and chlordane are cause by one data point.			
DDT	0.859	0.736				
Chlordane	0.695*	0.695*				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Portage Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Portage Lake northern pike due to mercury. PCBs would cause an advisory. Organics data is limited due to the age of the dataset.

Length (Inches)	DDT Regression Equation Estimate (ppm)	Meal Category
19	0.001	16
22	0.005	16
25	0.01	16
28	0.01	16
31	0.02	16
34	0.02	16
37	0.02	16
40	0.03	16
<i>Shaded area denotes extrapolated estimates</i>		





Walleye

Portage Lake

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	2007	25	14.3	15	14.5	30
Datasets available: 1988, 1998, 2007						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	25	0.36	0.1	1.3	0.48	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.796	0.843				

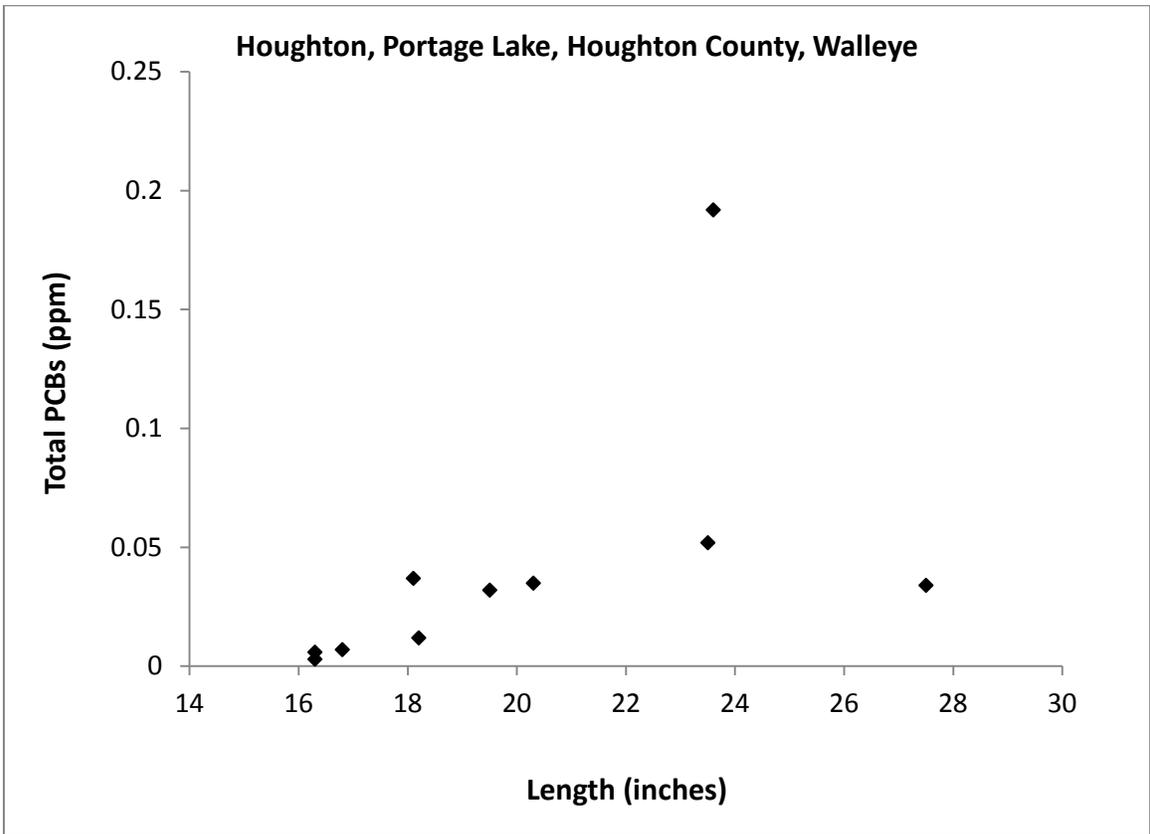
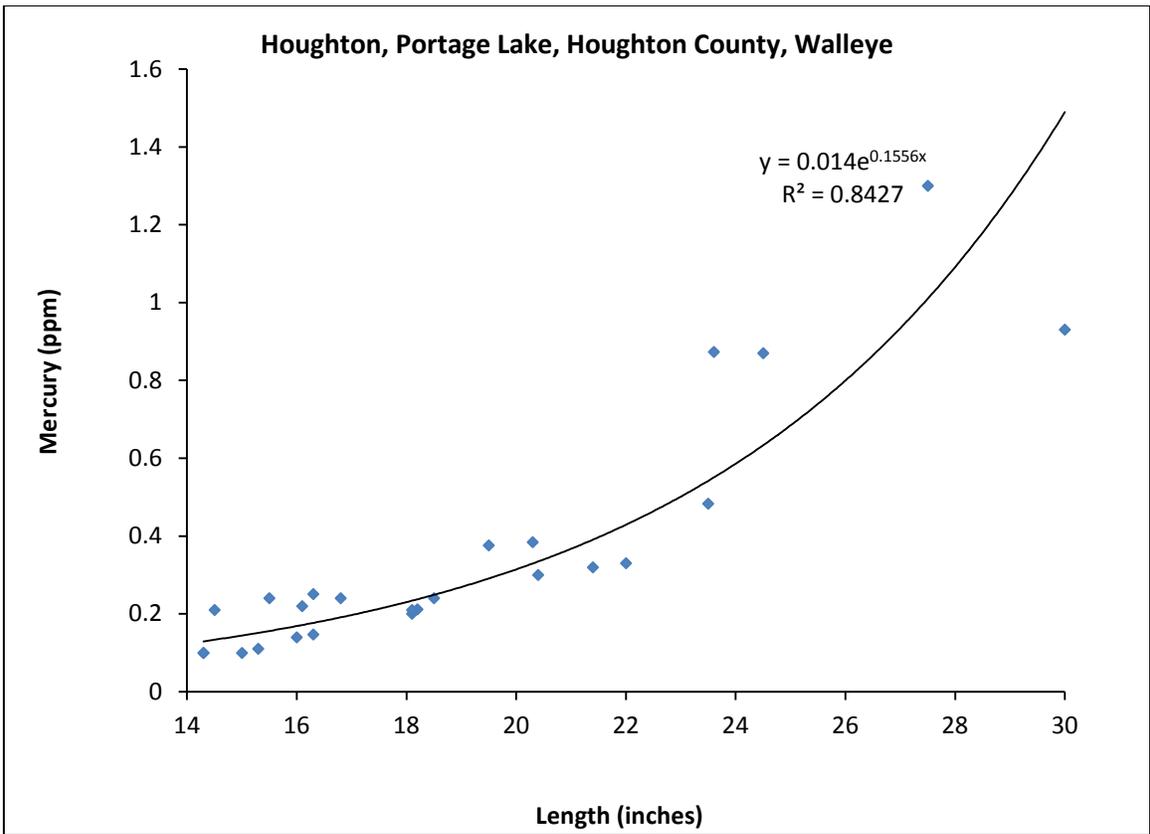
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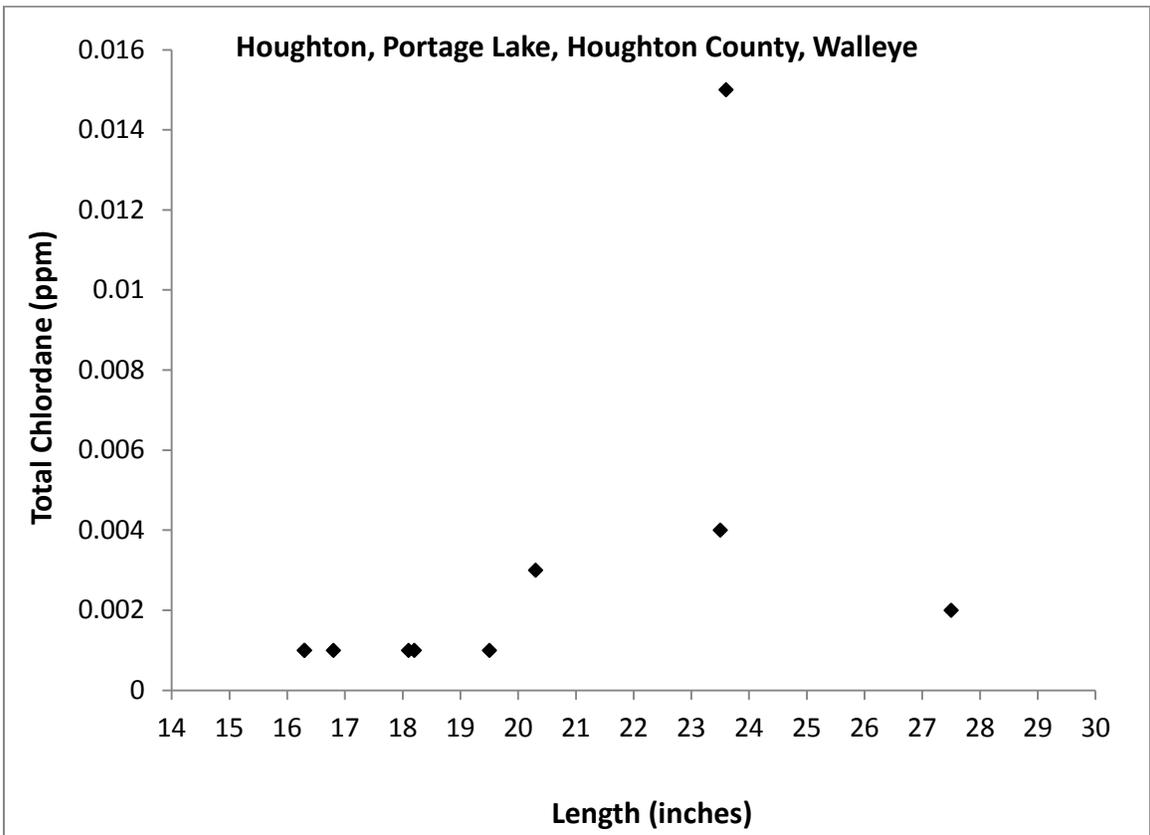
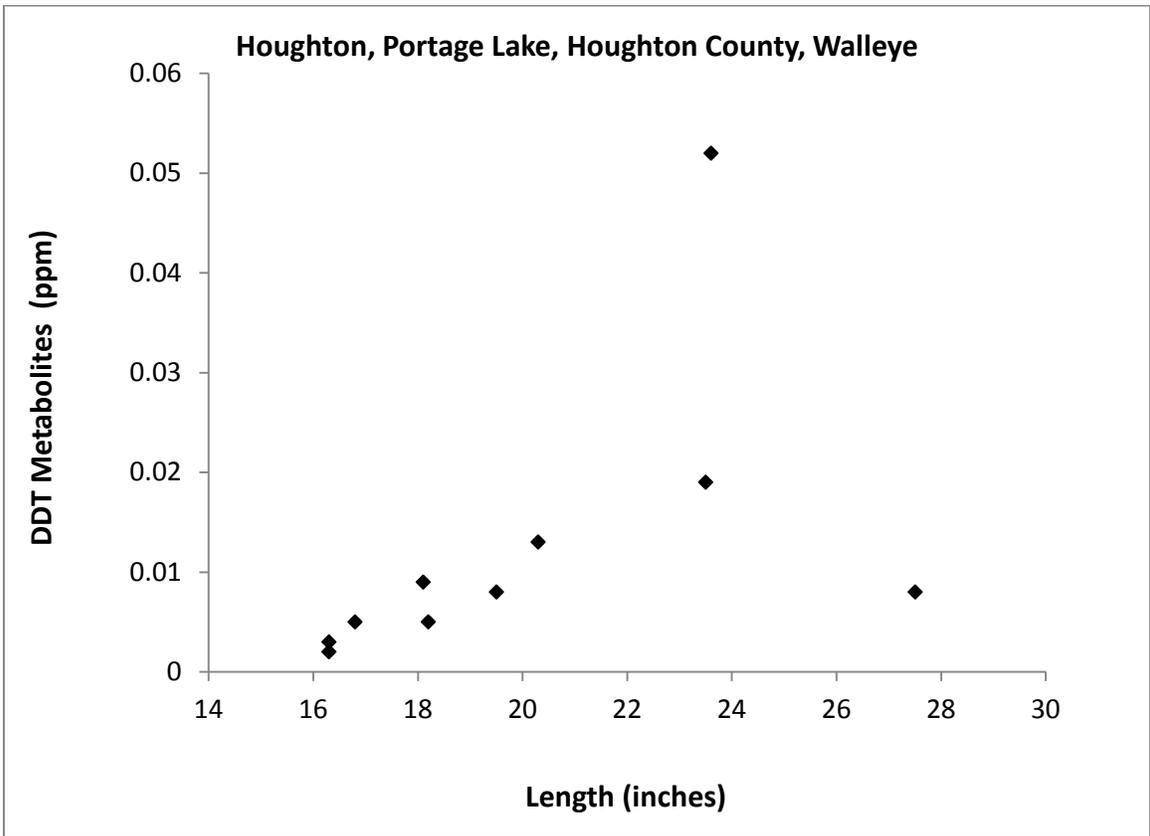
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2007	2007	10	16.3	15	16.3	27.5
Datasets available: 1988, 1998, 2007						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	0.041	0.003	0.19	0.08	2
DDT	10	0.012	0.002	0.05	0.02	16
Chlordane	10	0.003	0.001	0.02	0.01	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.338	0.355				
DDT	0.419	0.617				
Chlordane	0.371	0.317				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Women and children should not eat more than one meal per month of Portage Lake walleye over 22 inches due to mercury and PCBs.

Recommendation: No one should eat more than 2 meals per month of Portage Lake walleye less than 24 inches due to mercury and PCBs, 1 meal per month of walleye between 24 and 28 inches, or 6 meals per year greater than 28 inches.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
14	0.12	8
16	0.17	4
18	0.23	4
20	0.31	2
22	0.43	2
24	0.59	1
26	0.80	1
27	0.93	1
28	1.1	1
29	1.28	0.5
30	1.49	0.5
<i>Shaded area denotes extrapolated estimates</i>		





White Sucker

Portage Lake

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1998	1998	1	16.4	na	16.4	16.4
Datasets available: 1998						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	1	0.12	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1998	1998	1	16.4	na	16.4	16.4
Datasets available: 1998						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	1	ND	--	--	--	--
DDT	1	0.009	0.009	0.009	--	--
Chlordane	1	ND	--	--	--	--
Toxaphene	1	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: There are no current consumption advisories for Portage Lake white sucker.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. The statewide guidelines apply. No one should eat more than 8 meals per month of sucker from inland waters.

Northern Pike

Rice Lake

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1991	1991	5	20.2	NA*	20.2	23.4
Datasets available: 1991						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.15	0.13	0.18	0.17	4
Chemical	Linear Regression	Exponential Regression	*There is no size limit on Rice Lake (Houghton County) northern pike.			
	R ²	R ²				
Mercury	0.691	0.645				

Organics Analysis:

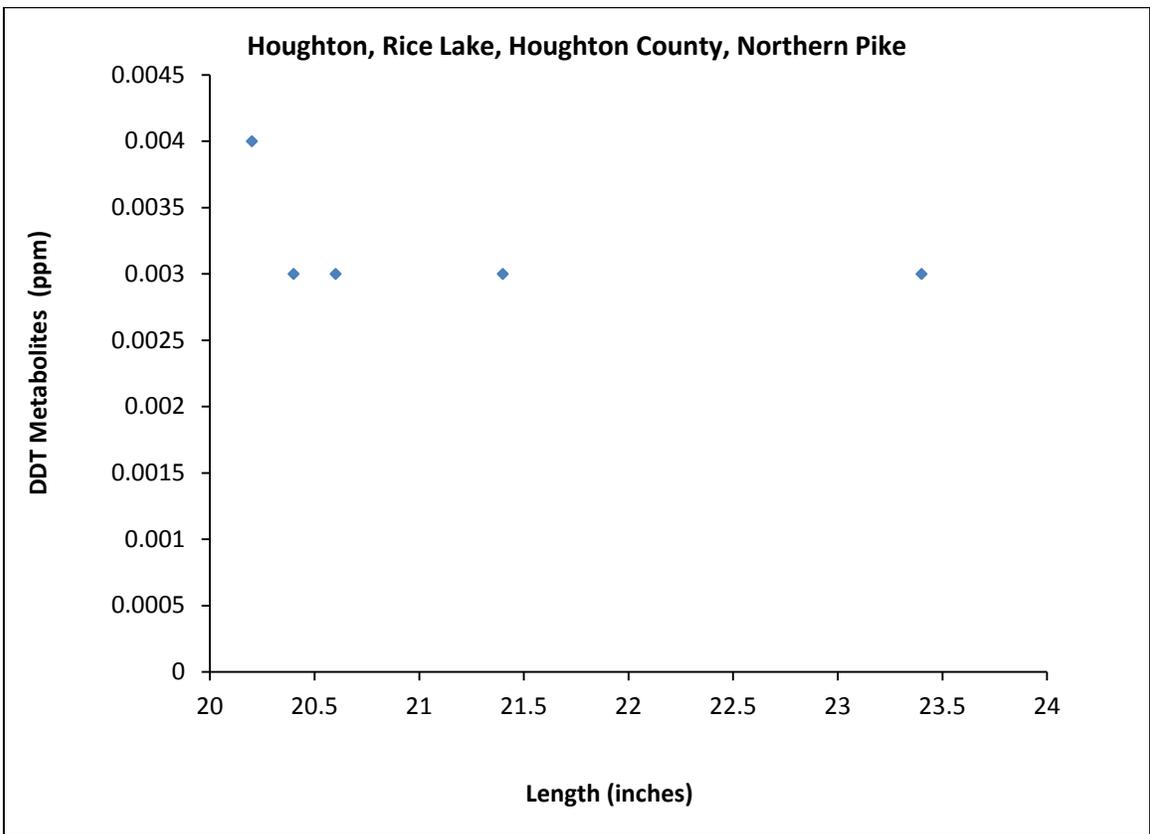
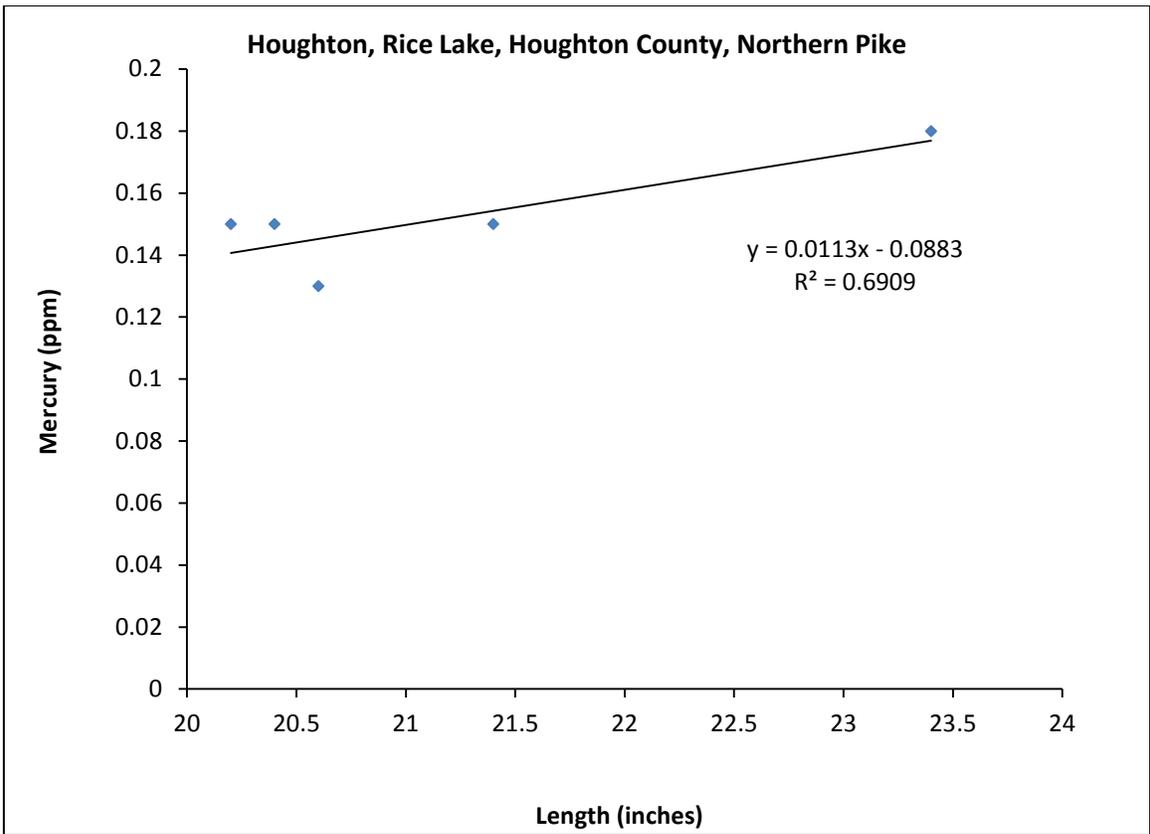
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1991	1991	5	20.2	NA*	20.2	23.4
Datasets available: 1991						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	5	ND	--	--	--	--
DDT	5	0.003	0.003	0.004	0.000	16
Chlordane	5	ND	--	--	--	--
Toxaphene	5	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression	*There is no size limit on Rice Lake (Houghton County) northern pike.			
	R ²	R ²				
PCB	--	--				
DDT	0.182	0.182				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Rice Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 4 meals per month of Rice Lake northern pike smaller than 24 inches or more than 2 meals per month of those fish larger than 24 inches due to mercury. Length break based on regression estimates was applied as the size range of the fish was limited.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
20	0.14	4
21	0.15	4
22	0.16	4
23	0.17	4
24	0.18	4
25	0.19	4
26	0.21	4
27	0.22	4
28	0.23	4

Shaded area denotes extrapolated estimates



Walleye

Rice Lake

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1991	1991	6	15.1	15	15.1	26.5
Datasets available: 1991						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.39	0.11	0.8	0.70	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.964	0.857				

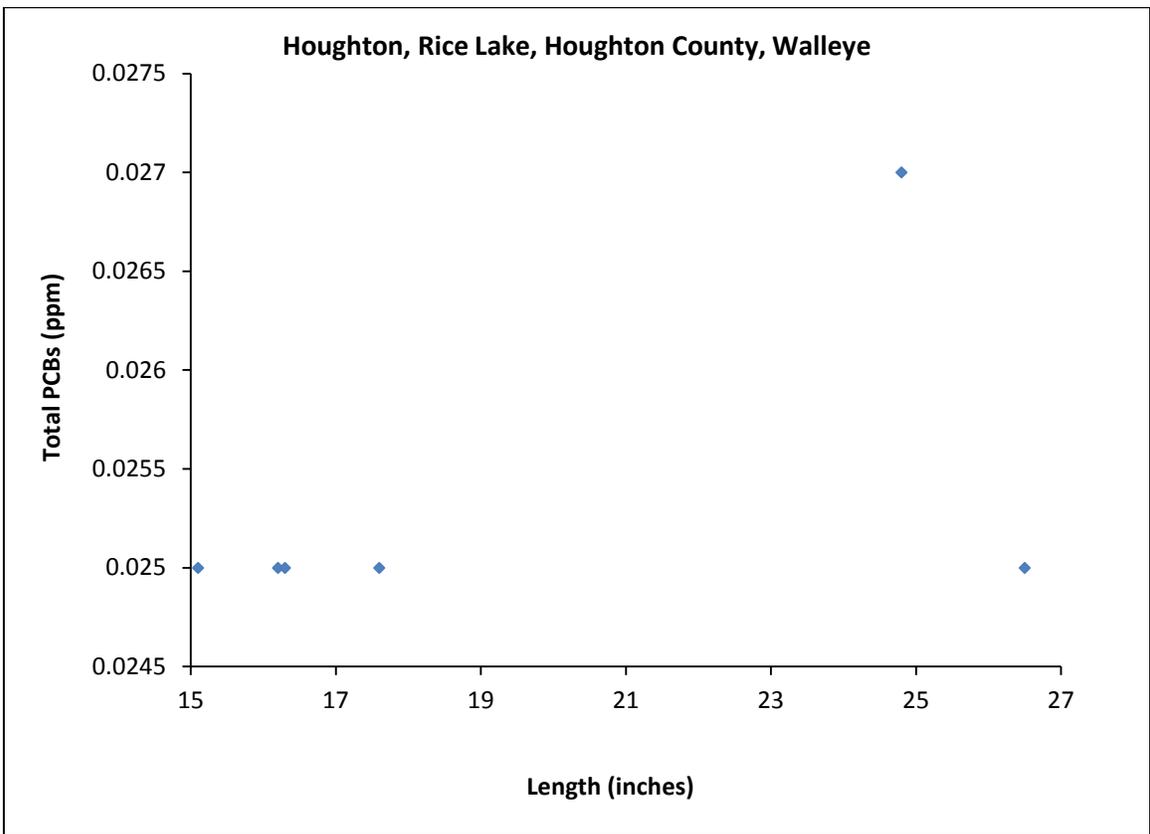
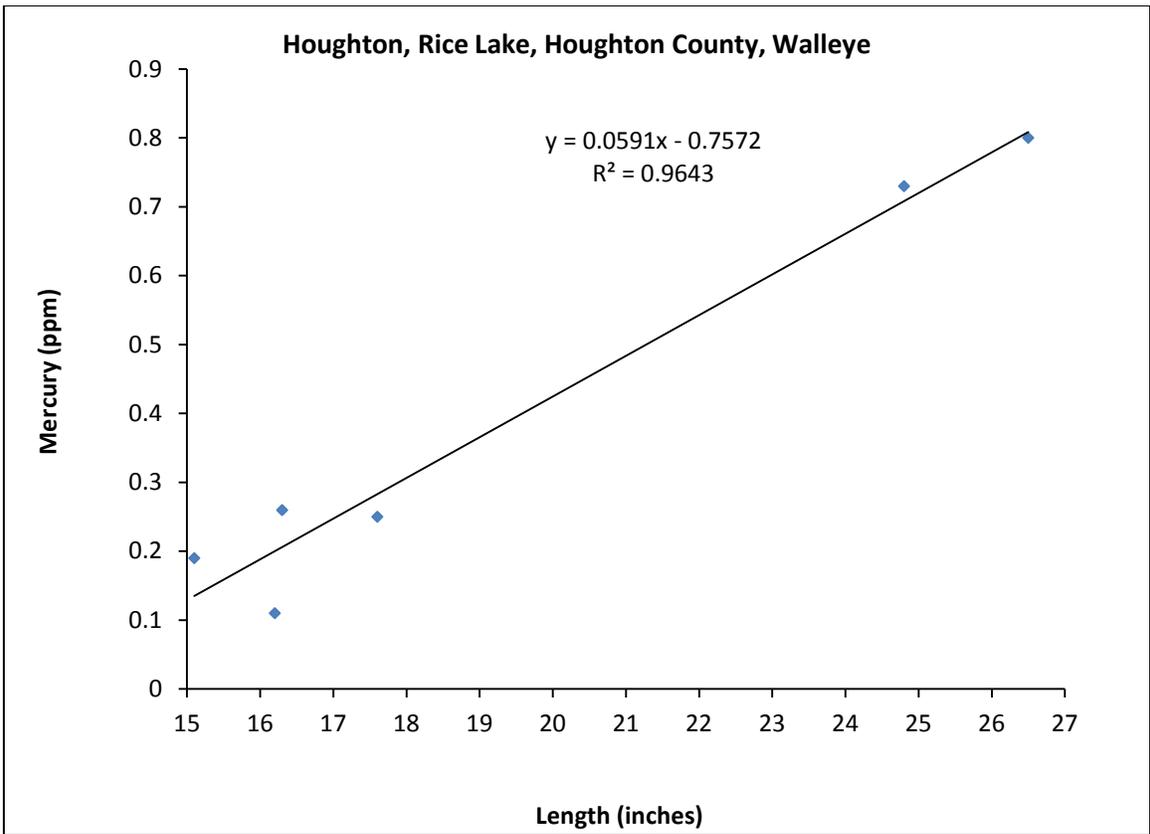
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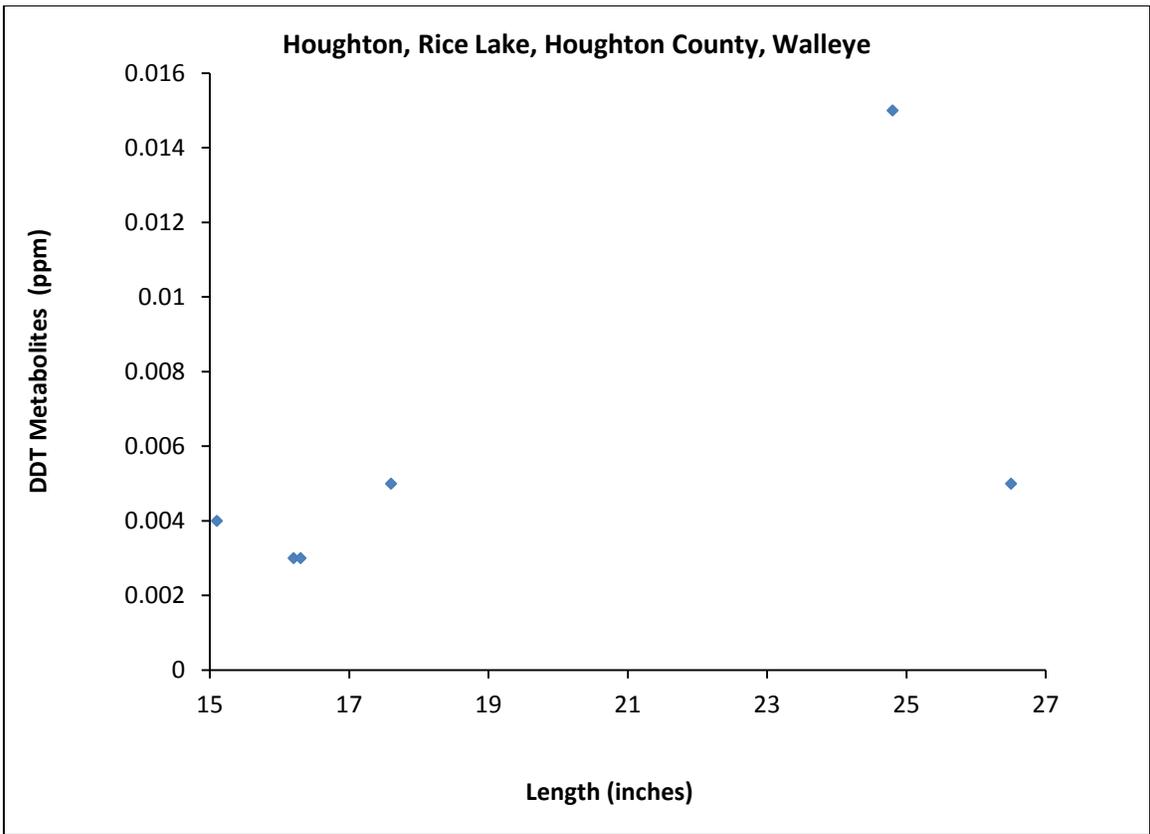
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1991	1991	6	15.1	15	15.1	26.5
Datasets available: 1991						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	6	0.025	0.025	0.027	0.03	8
DDT	6	0.006	0.003	0.015	0.01	16
Chlordane	6	ND	--	--	--	--
Toxaphene	6	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.287	0.287				
DDT	0.395	0.476				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Rice Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Rice Lake walleye smaller than 22 inches or more than 1 meal per month of those fish larger than 22 inches due to mercury. Organics data is limited due to the age of the data.

Length (Inches)	Regression Equation Estimate (ppm)	Meal Category
15	0.13	8
16	0.19	4
17	0.25	4
18	0.31	2
20	0.42	2
21	0.48	2
22	0.54	1
25	0.72	1
27	0.84	1
<i>Shaded area denotes extrapolated estimates</i>		





Rock Bass

Roland Lake

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	8	7.3	NA	7.3	8.3
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	8	0.26	0.17	0.48	0.37	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.739	0.779				

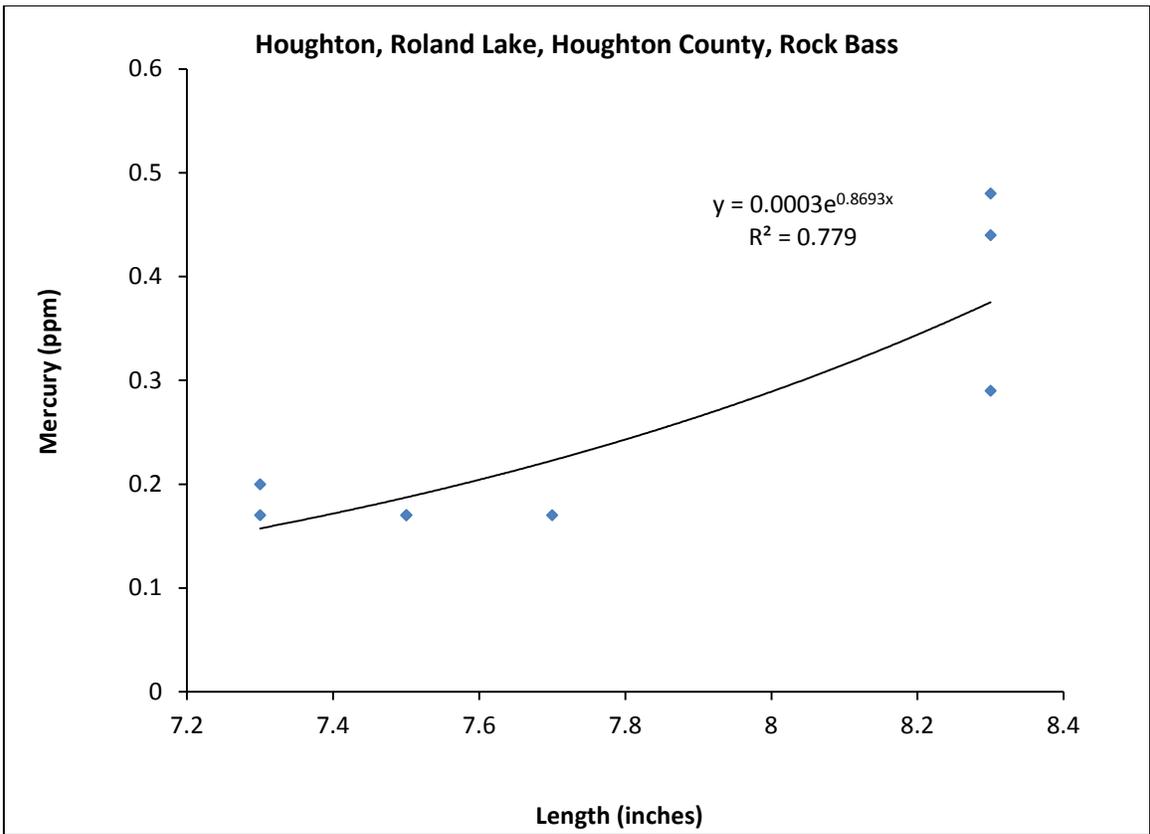
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Roland Lake rock bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Roland Lake rock bass smaller than 9 inches or more than 1 meal per month of those fish larger than 9 inches due to mercury. Length break was added based on the regression and due to the limited range of lengths.

Length (Inches)	Regression Equation Estimate (ppm)	Meal Category
7	0.13	4
8	0.31	2
9	0.75	1
<i>Shaded area denotes extrapolated estimates</i>		



Smallmouth Bass

Roland Lake

Houghton County

Hg Analysis:

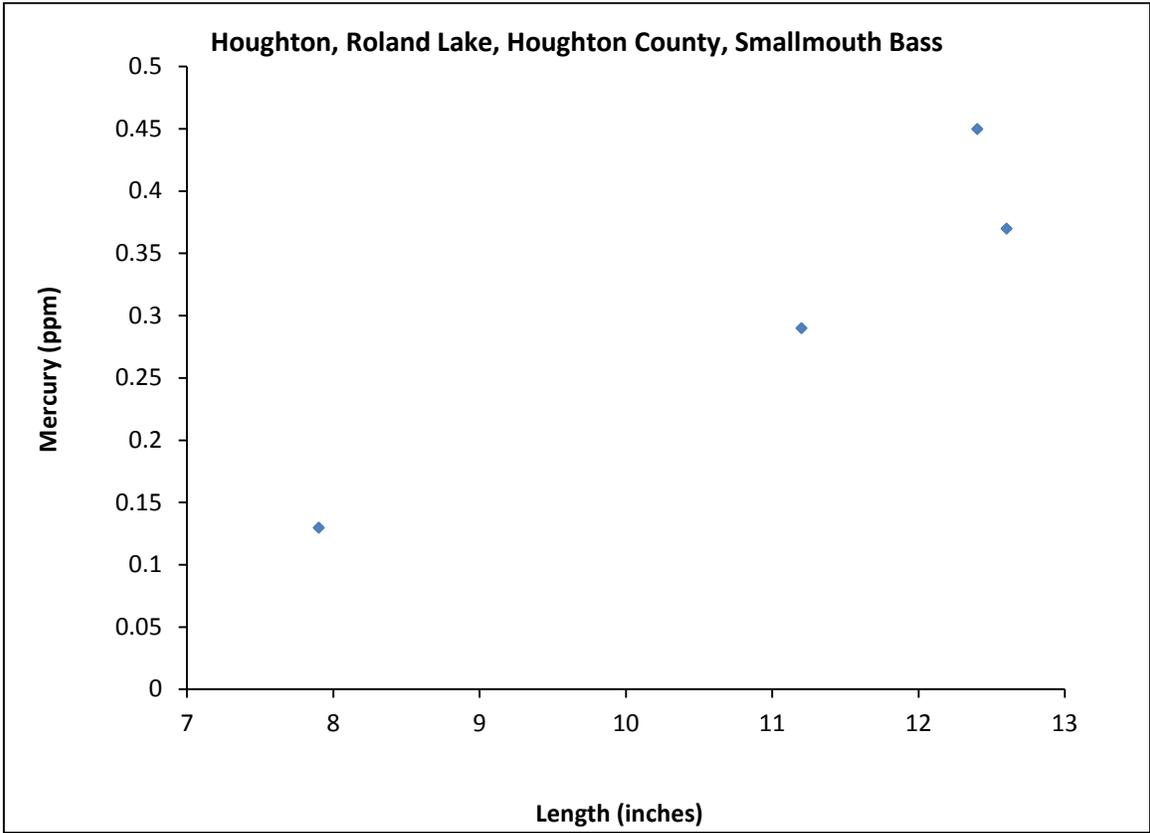
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of All Samples	
Earliest	Most Recent				Min	Max
1988	1988	4	7.9	14	7.9	12.6
Datasets available: 1988						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	4	0.31	0.13	0.45	0.53	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.902	0.966				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	4	7.9	14	7.9	12.6
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB						
DDT						
Chlordane						
Toxaphene						
Final meal category based on UCL:						2

Existing Advisory: Roland Lake smallmouth bass are covered under the statewide mercury advisory.

Recommendation: The size range of fish in this sample set is limited. The statewide guidelines apply: No one should eat more than 2 meals per month of Roland Lake largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches.



Bluegill

Six Mile Lake

**Houghton & Ontonagon
Counties**

Hg Analysis:

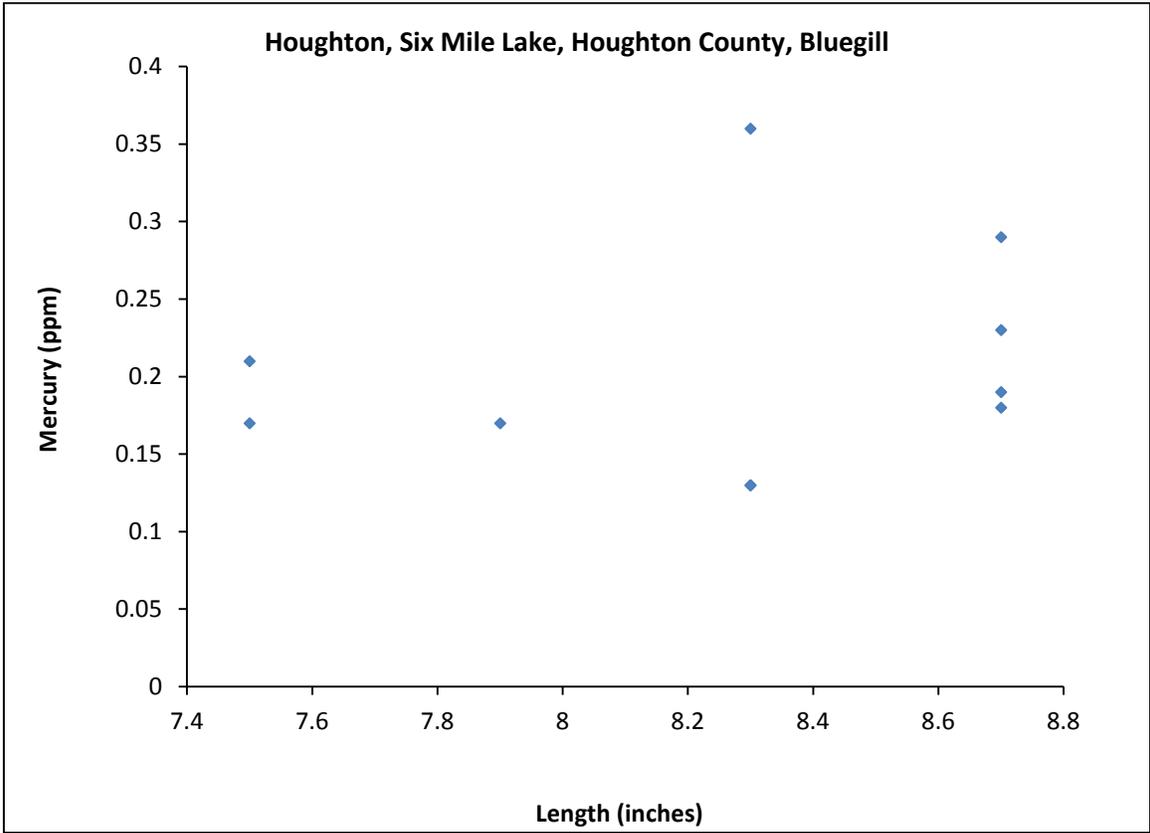
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1995	1995	10	7.5	NA	7.5	8.7
Datasets available: 1995						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.21	0.13	0.36	0.26	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.046	0.043				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Six Mile Lake bluegill have no existing advisory.

Recommendation: No one should eat more than 4 meals per month of Six Mile Lake bluegill or other sunfish due to mercury.



Walleye

Six Mile Lake

**Houghton & Ontonagon
Counties**

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1995	1995	5	15.4	15	15.4	17.3
Datasets available: 1995						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.63	0.46	0.75	0.77	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.908	0.939				

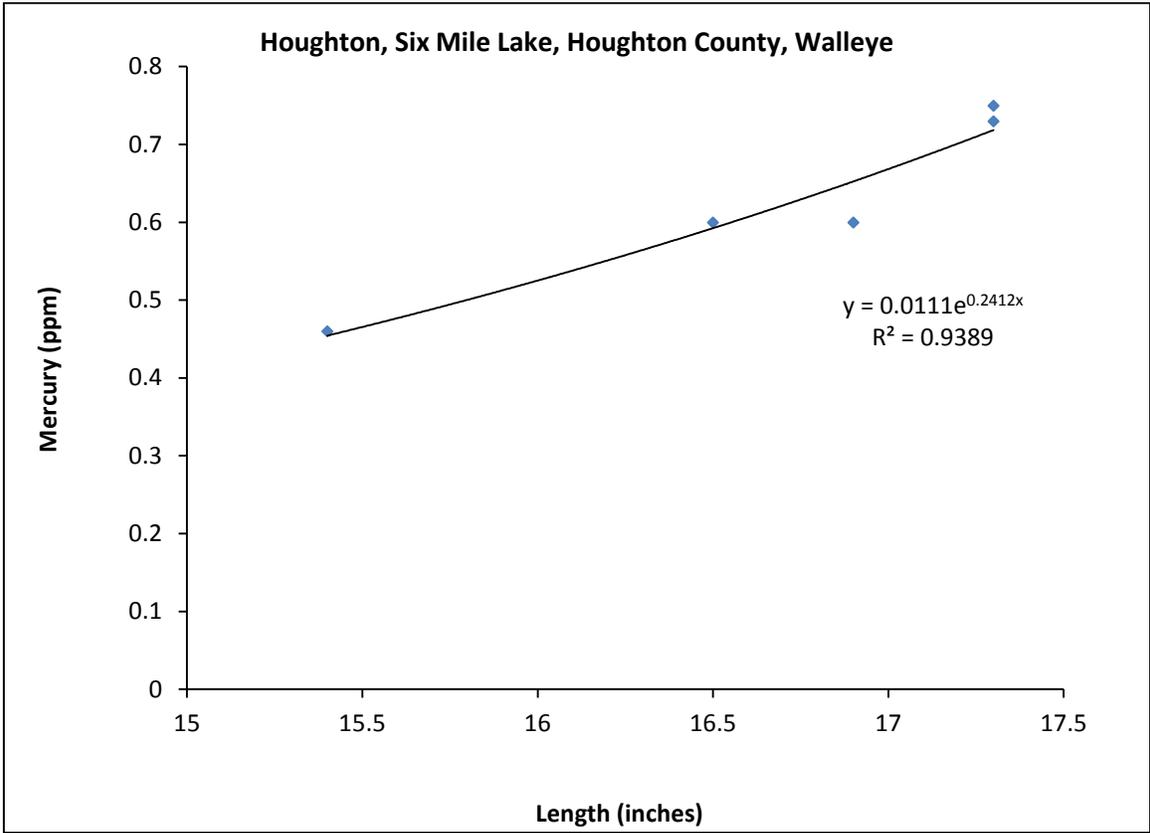
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Six Mile Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meals per month of Six Mile Lake walleye smaller than 20 inches or more than 6 meals per year of those fish larger than 20 inches. Statewide length break applied as size range and number of fish in this sample set is limited.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
15	0.41	2
16	0.53	2
17	0.67	1
18	0.85	1
<i>Shaded area denotes extrapolated estimates</i>		



Northern Pike

Torch Lake

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		
Earliest	Most Recent				Min	Max	
1988	2013	39	18	24	24	36.1	
Datasets available: 1988, 2000, 2007, 2013							
Chemical	Sample Size (Legal)	Mean (ppm)		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	31	0.39		0.15	0.76	0.46	2
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury	0.454	0.460					

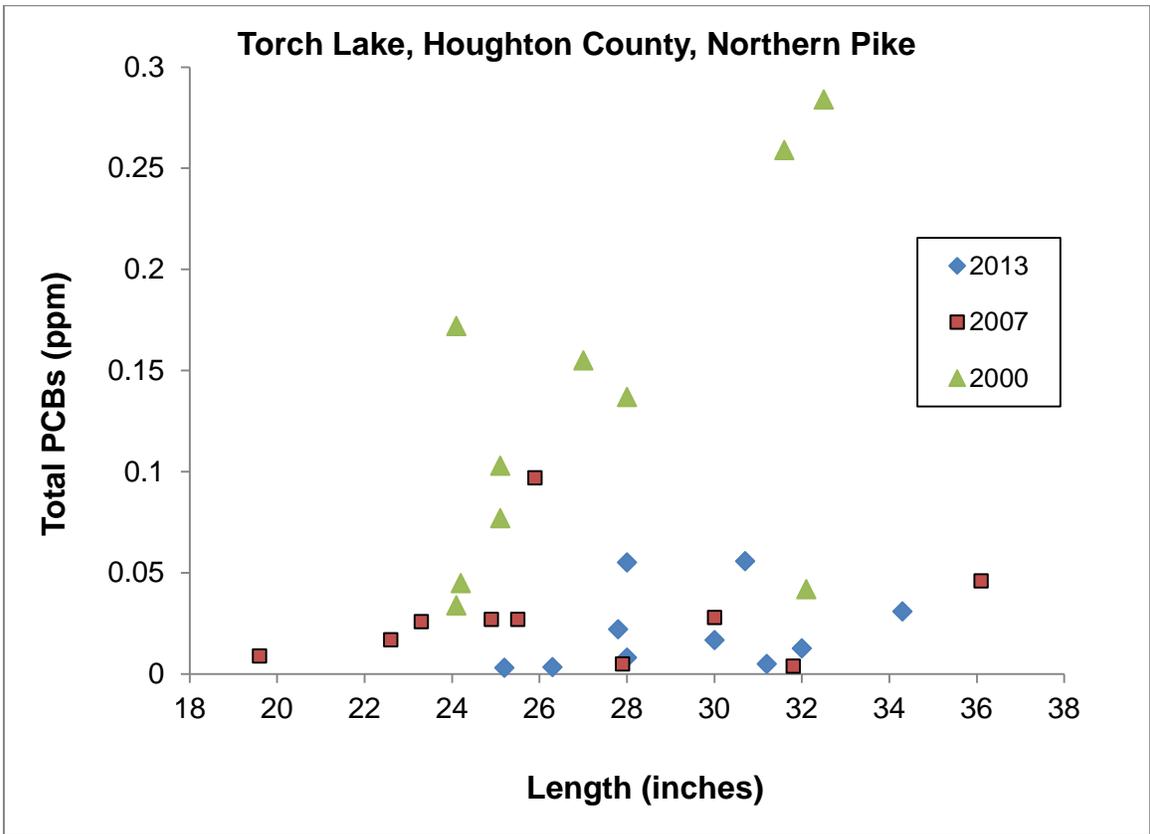
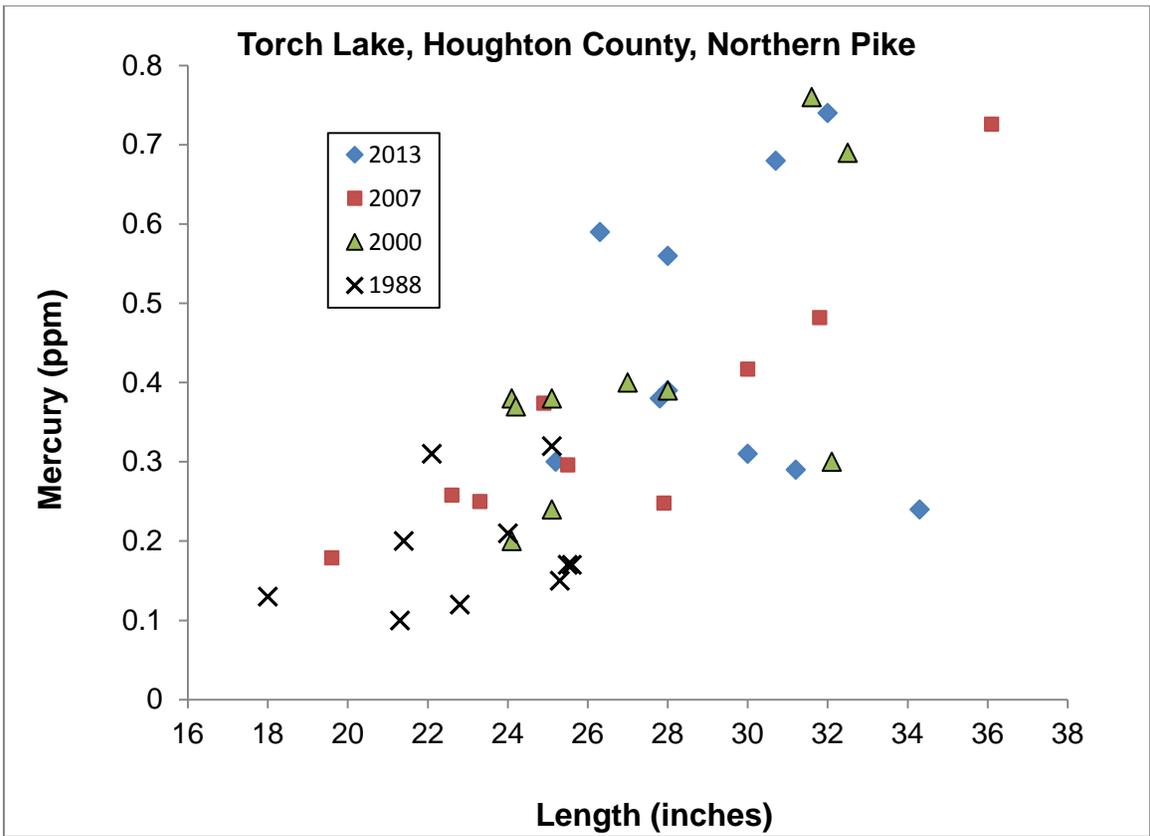
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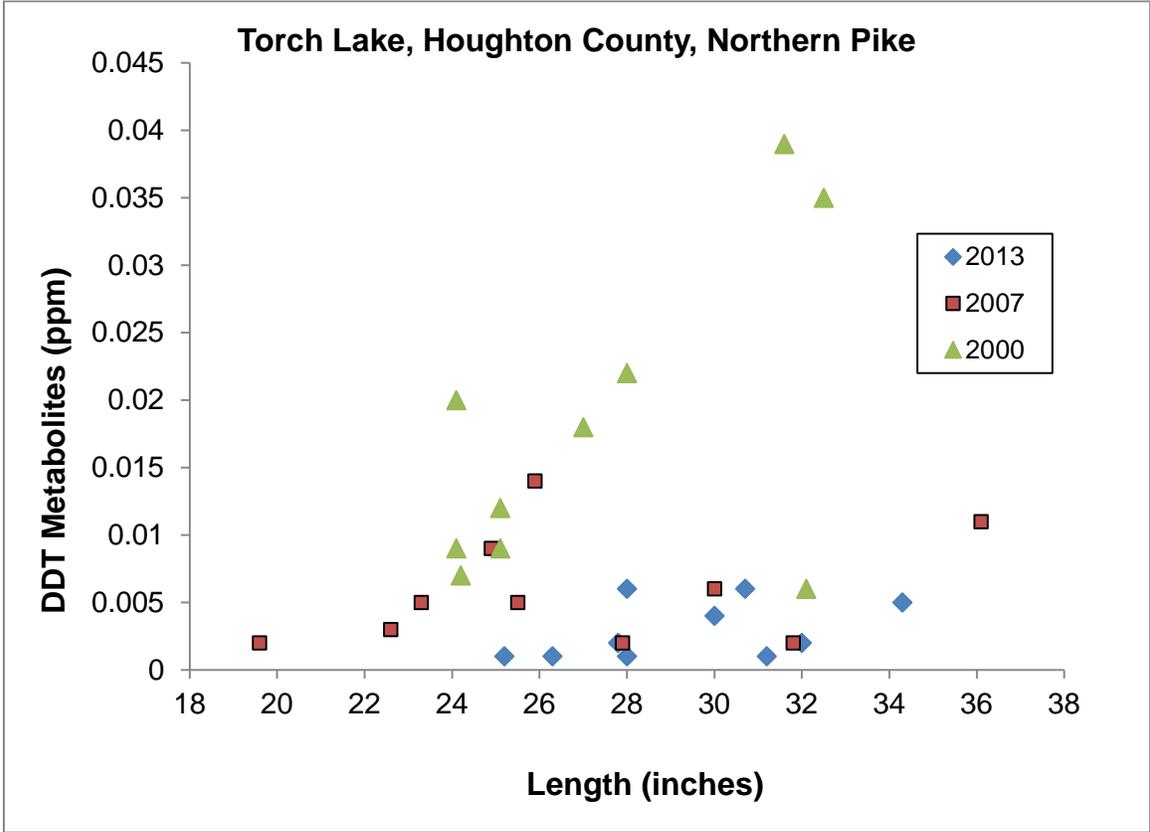
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		
Earliest	Most Recent				Min	Max	
2000	2013	30	19.6	24	36.1		
Datasets available: 1988, 2000, 2007, 2013							
Chemical	Sample Size (Legal)	Mean (ppm)		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	27	0.065		0.003	0.28	0.10	2*
DDT	27	0.009		0.001	0.04	0.01	16
Chlordane	27	ND		--	--	--	--
Toxaphene	27	ND		--	--	--	--
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	0.024	0.007					
DDT	0.033	0.009					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							2

Existing Advisory: No one should eat more than 1 meal per month of Torch Lake northern pike due to PCBs

Recommendation: No one should eat more than 2 meals per month of Torch Lake northern pike due to PCBs and mercury.

* PCB concentrations have declined since 2000. Based only on 2007 and 2013 PCB results advice would be 4 meals per month.





Smallmouth Bass

Torch Lake

Houghton County

Hg Analysis:

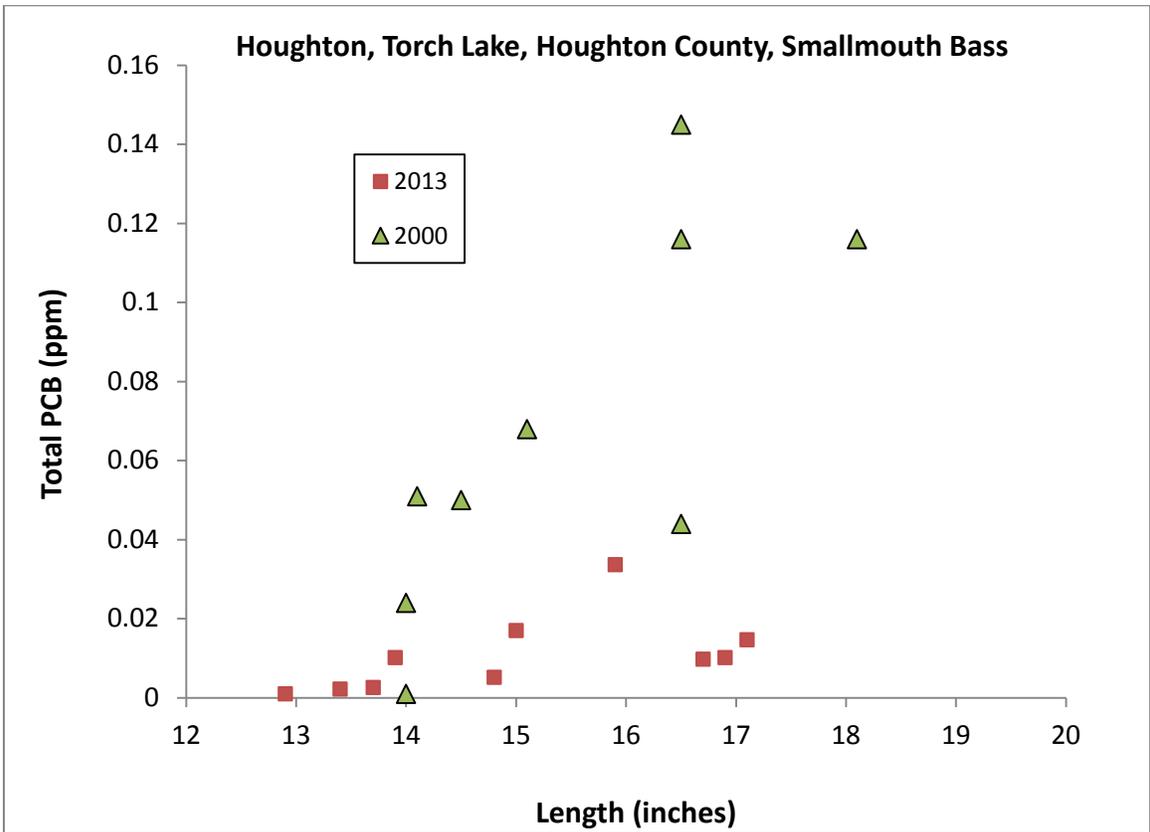
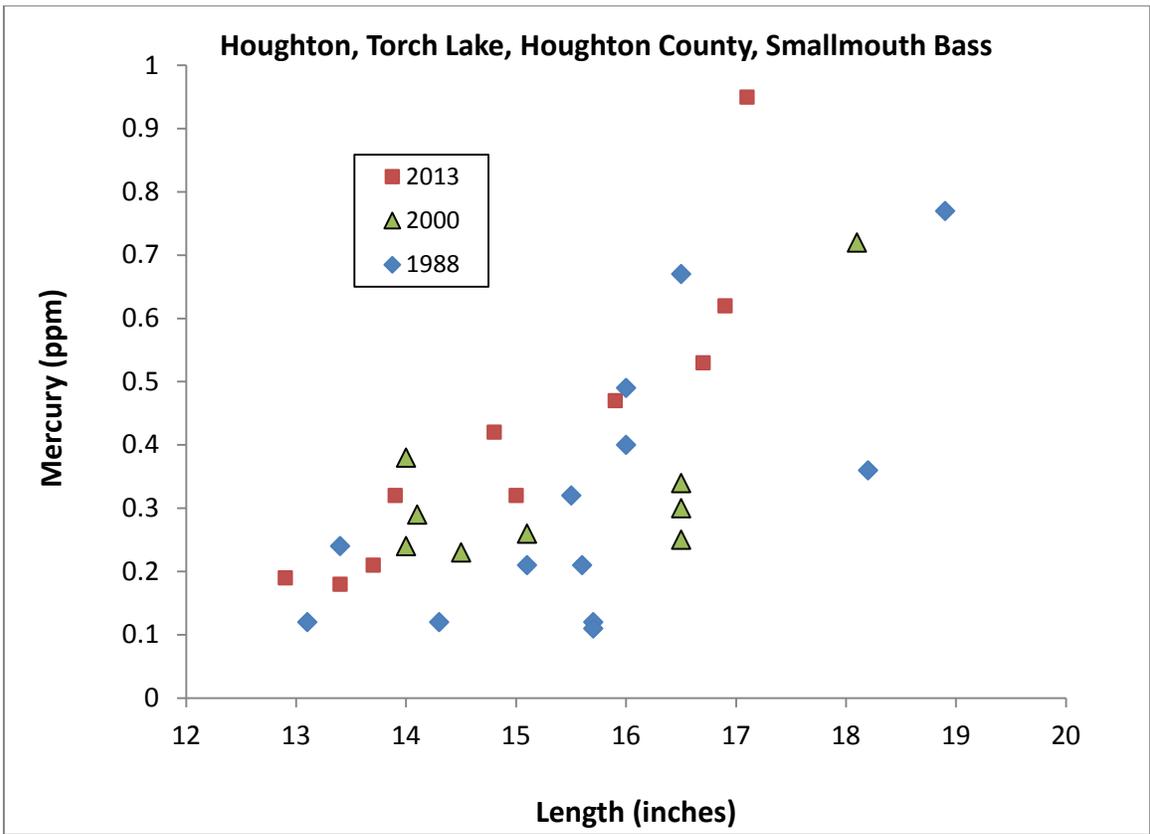
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	2013	32	12.9	14	13.7	18.9
Datasets available: 1988, 2000, 2013						
Chemical	Sample Size (Legal)	Mean Conc. (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	28	0.38	0.11	0.95	0.46	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.464	0.413				

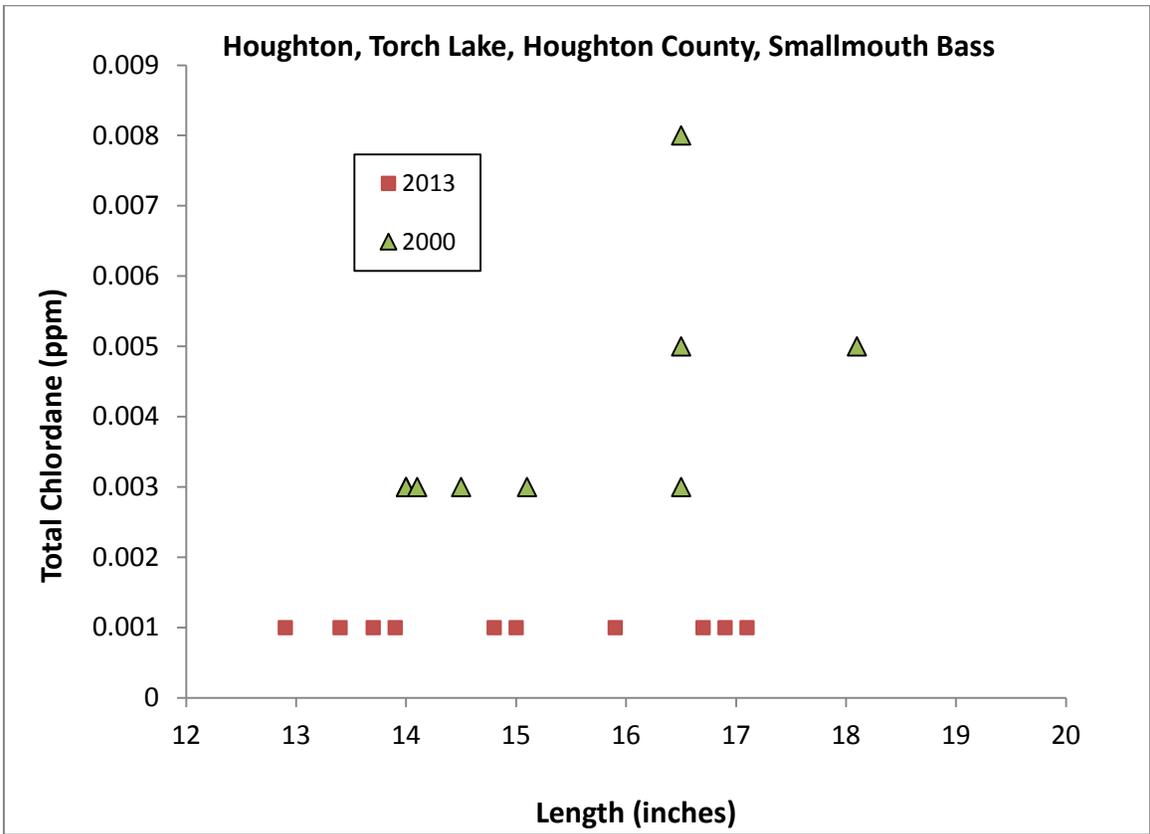
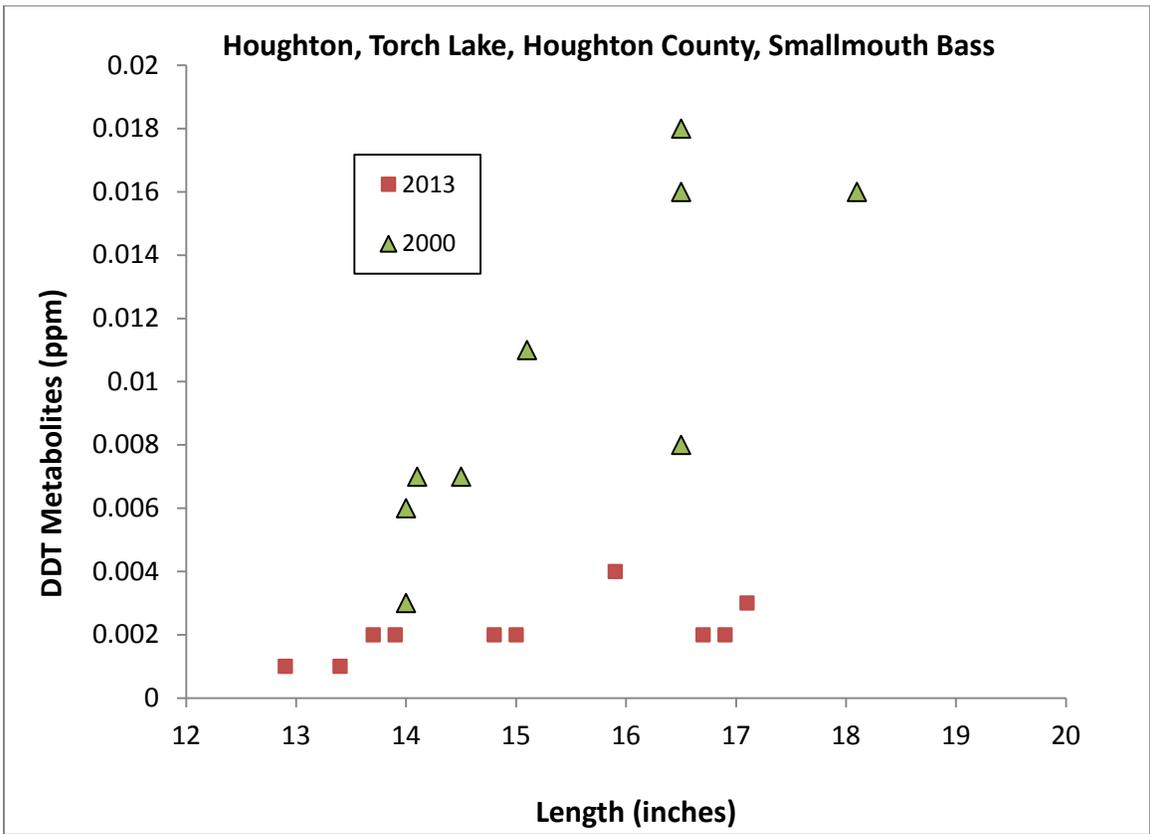
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2000	2013	19	12.9	14	13.7	18.1
Datasets available: 1988, 2000, 2013						
Chemical	Sample Size (Legal)	Mean Conc. (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	17	0.042	0.001	0.14	0.06	2
DDT	17	0.007	0.002	0.02	0.009	16
Chlordane	17	0.003	0.001	0.008	0.004	--
Toxaphene	17	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.285	0.377				
DDT	0.265	0.264				
Chlordane	0.132	0.086				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: No one should eat more than 2 meals per month of largemouth or smallmouth bass from Torch Lake due to PCBs & mercury.

Recommendation: No one should eat more than 2 meals per week of largemouth or smallmouth bass from Torch Lake smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches due to mercury and PCBs. The statewide length break was applied due to the limited length range in the sample.





Walleye

Torch Lake

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	2013	46	13.3	15	14.7	24.9
Datasets available: 1988, 2000, 2007, 2013						
Chemical	Sample Size (Legal)	Mean Conc. (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	45	0.66	0.13	2.38	0.81	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.675	0.819				

Organics Analysis:

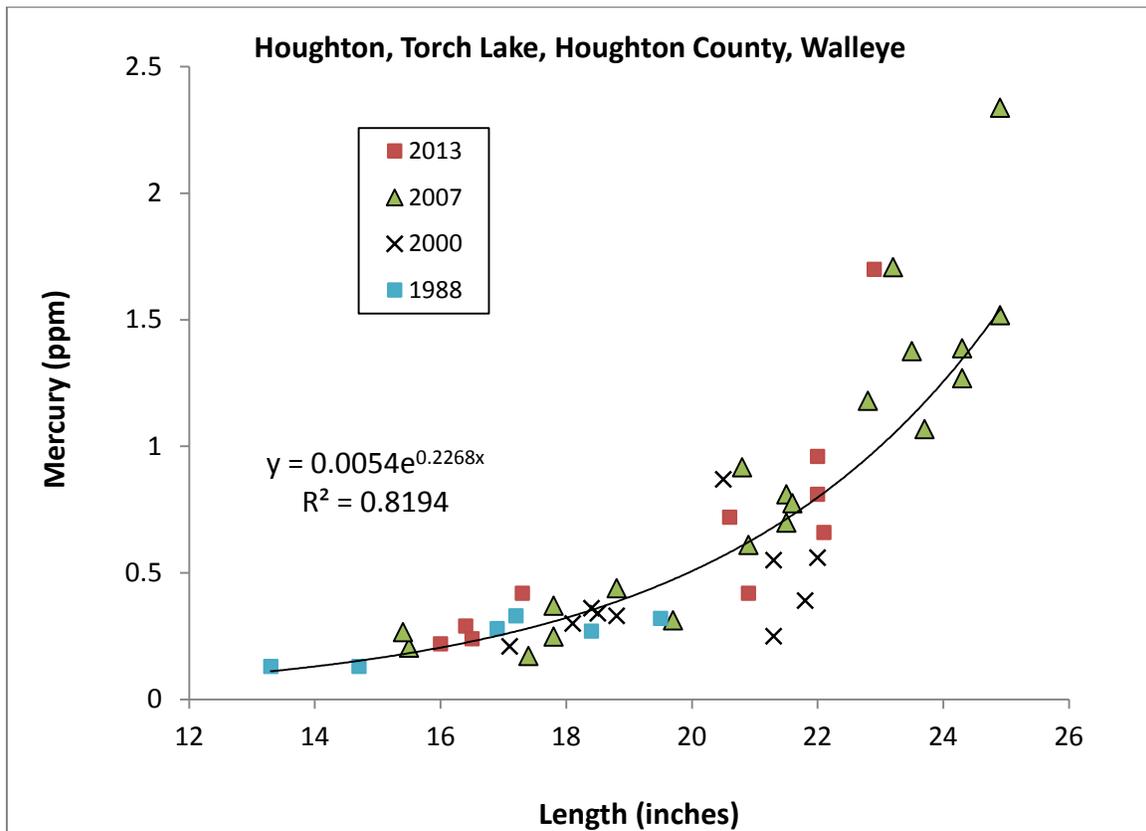
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2007	2013	30	15.4	15	15.4	24.9
Datasets available: 1988, 2000, 2007, 2013						
Chemical	Sample Size (Legal)	Mean Conc. (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	30	0.13	0.001	0.47	0.18	1
DDT	30	0.02	0.001	0.07	0.03	16
Chlordane	30	0.003	0.001	0.009	0.003	--
Toxaphene	30	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.518	0.642				
DDT	0.460	0.634				
Chlordane	0.294	0.381				
Toxaphene	--	--				
Final meal category based on UCL:						1

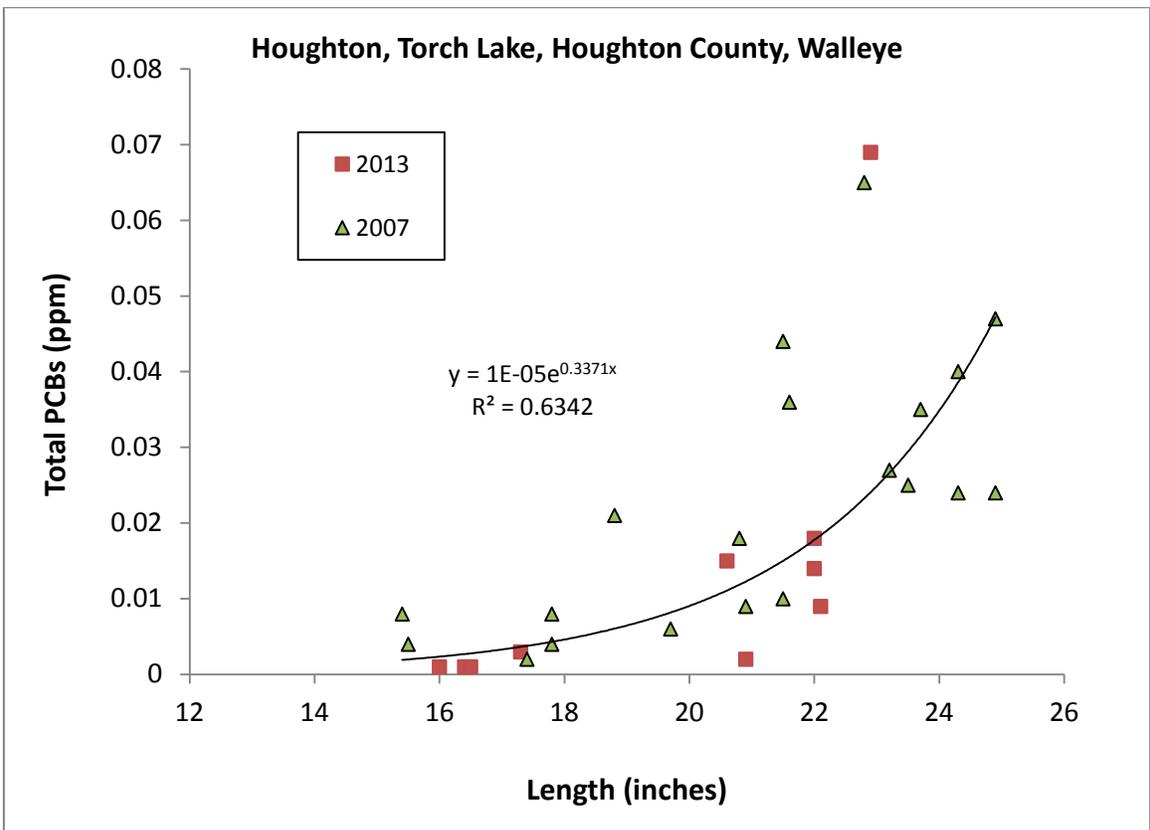
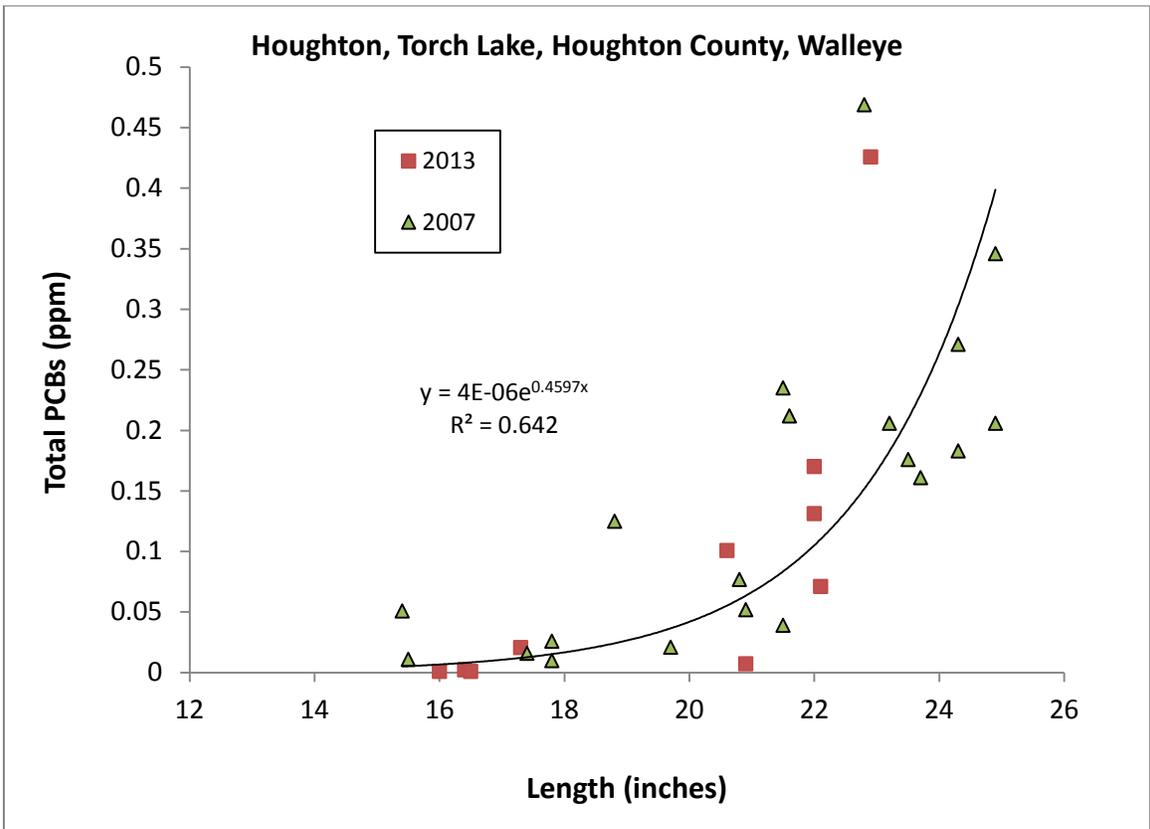
Length (Inches)	Hg		PCB		DDT	
	Regression Equation Estimate (ppm)	Meal Category	Regression Equation Estimate (ppm)	Meal Category	Regression Equation Estimate (ppm)	Meal Category
14	0.13	8	0	16	0	16
16	0.2	4	0.01	16	0	16
18	0.32	2	0.02	12	0	16
20	0.5	2	0.04	4	0.01	16
22	0.79	1	0.1	2	0.02	16
24	1.25	0.5	0.25	0.5	0.03	16
26	1.96	0.5	0.62	Limited	0.06	16
28	3.09	0	1.56	Limited	0.13	12

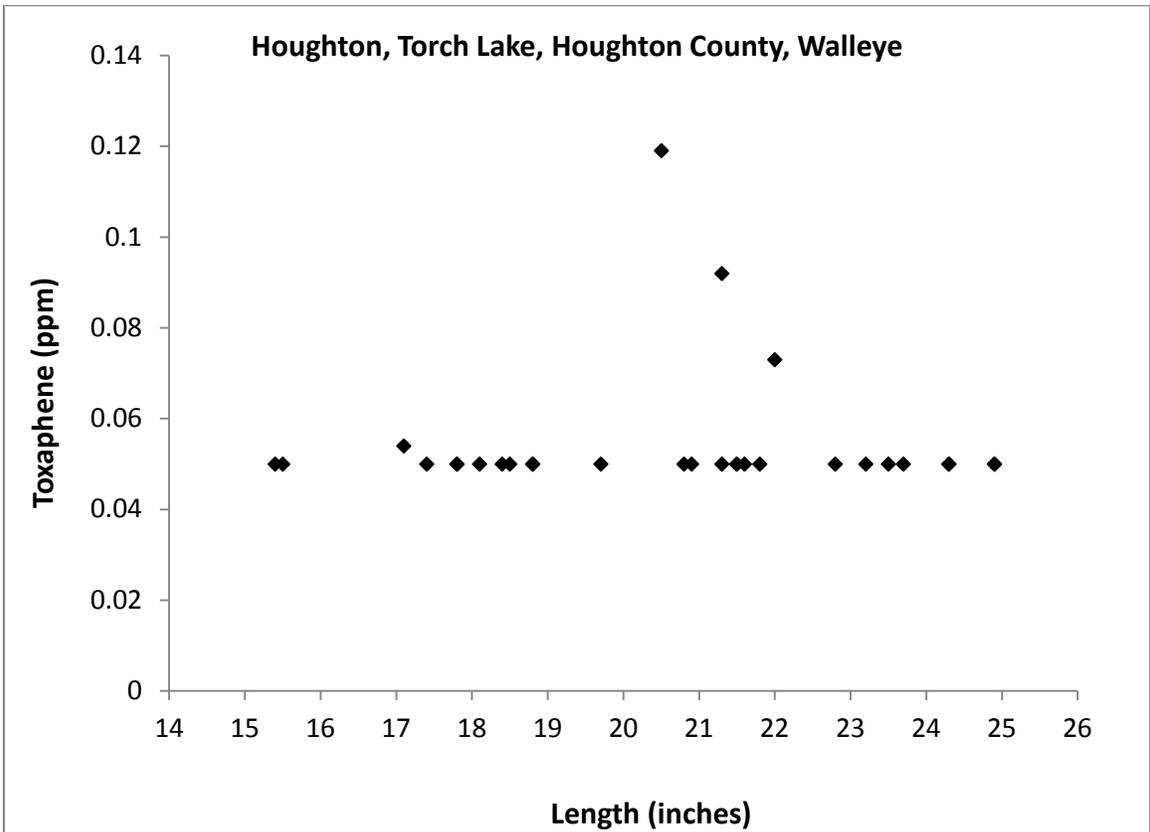
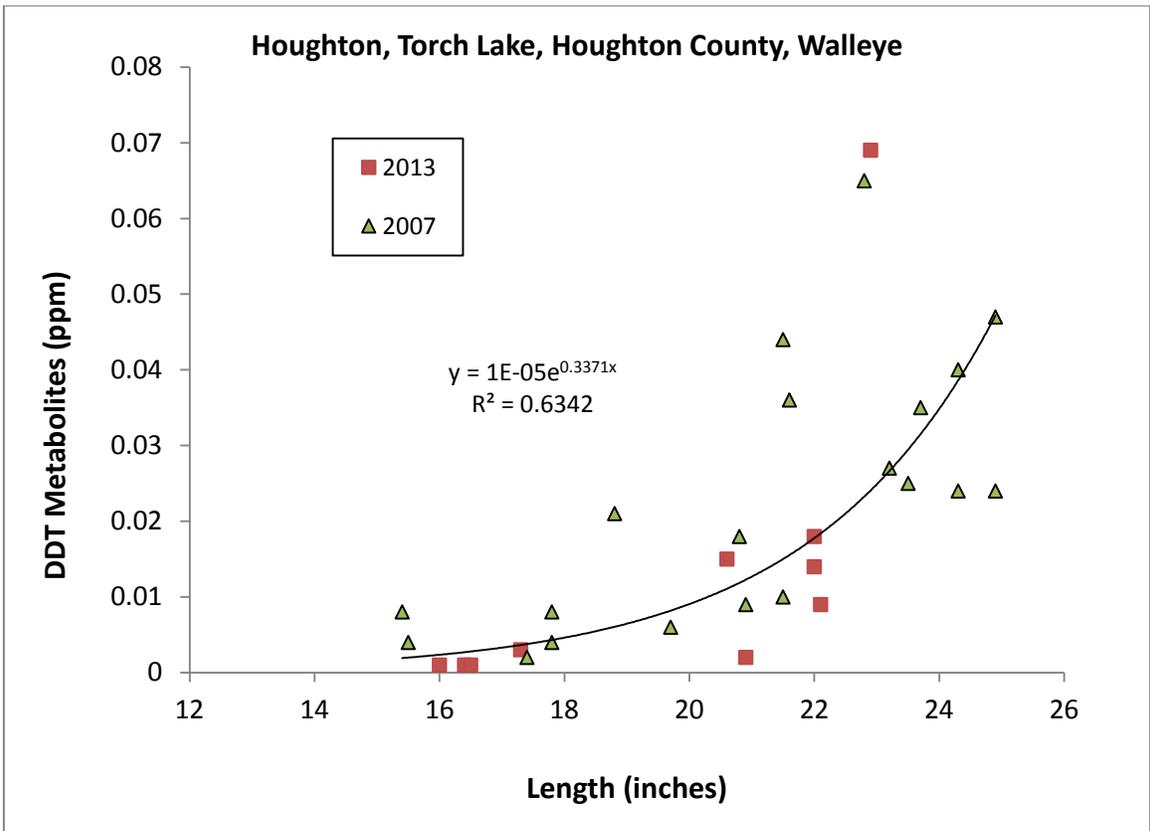
Shaded area denotes extrapolated estimates

Existing Advisory: No one should eat more than 1 meal per month of Torch Lake walleye smaller than 20 inches due to PCBs and no more than 1 meal a month of those greater than 20 inches due to mercury and PCBs. Toxaphene would cause advisories.

Recommendation: No one should eat more than 1 meal per month of Torch Lake walleye smaller than 22 inches and no more than 6 meals per year of walleye larger than 22 inches due to mercury and PCBs.







White Sucker

Torch Lake

Houghton County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2007	2007	10	13.8	na	13.8	18.8
Datasets available: 2007						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.11	0.042	0.228	0.15	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.593	0.695				

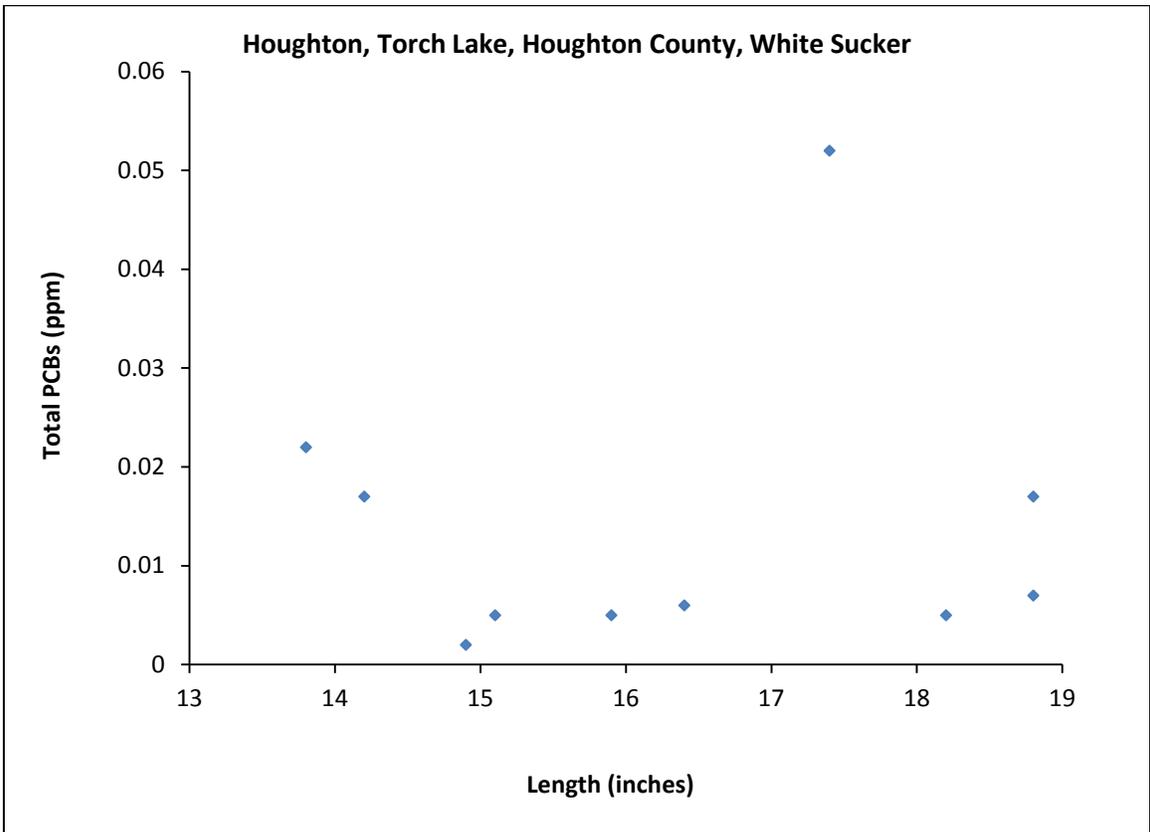
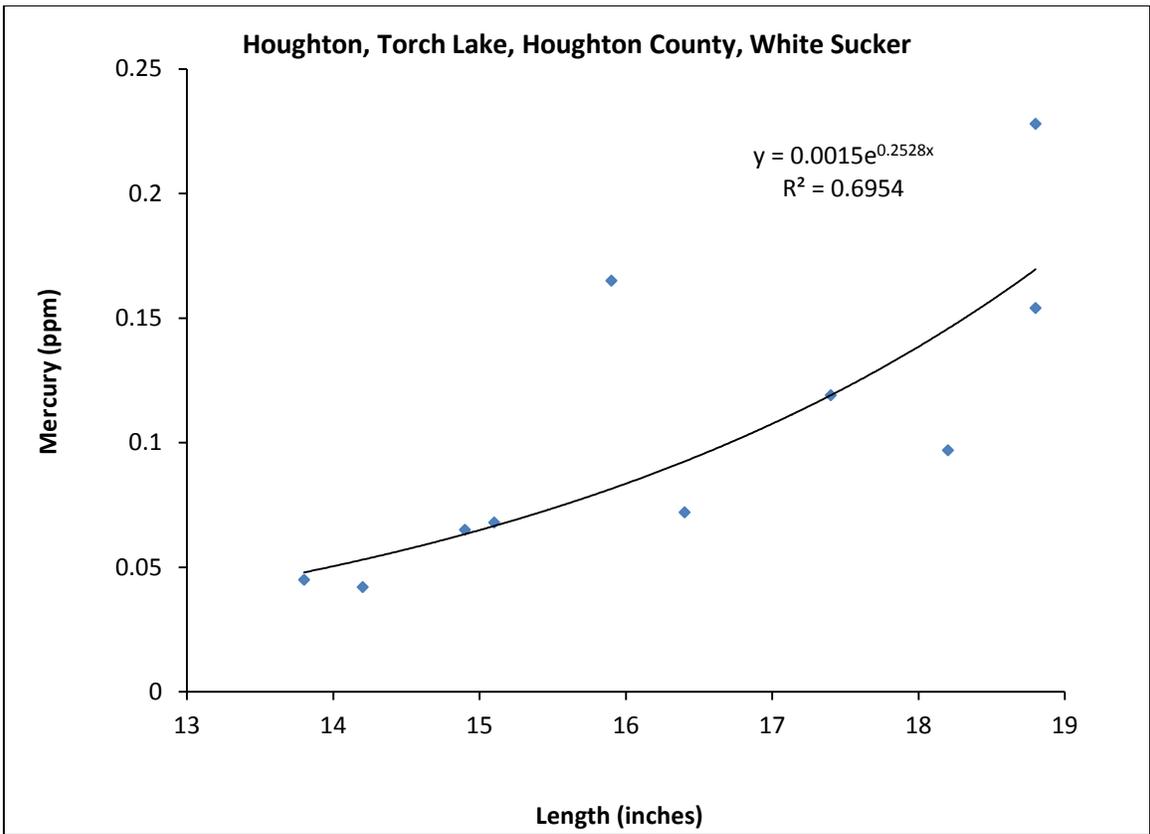
Organics Analysis:

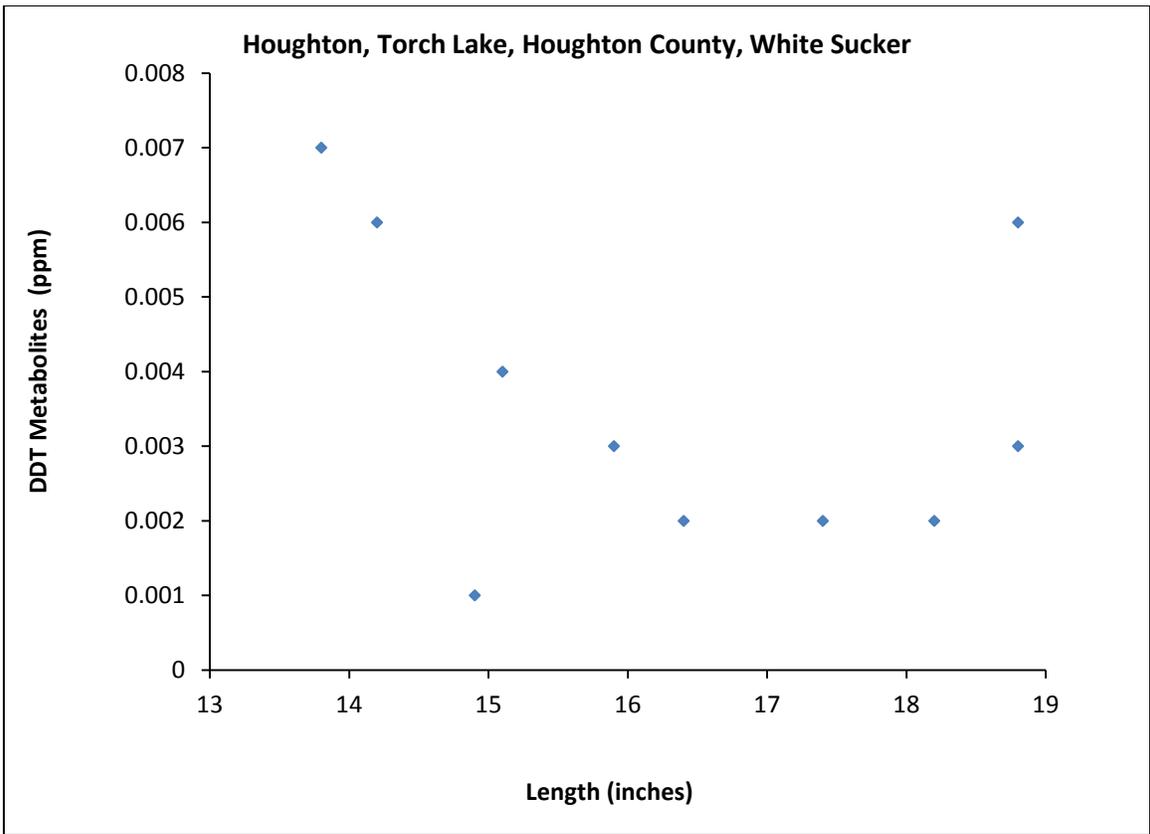
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2007	2007	10	13.8	NA	13.8	18.8
Datasets available: 2007						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	0.01	0.002	0.052	0.02	12
DDT	10	0.004	0.001	0.007	0.01	16
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.006	0.006				
DDT	0.093	0.034				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Torch Lake white sucker have no eating restrictions.

Recommendation: No one should eat more than 4 meals per month of Torch Lake sucker larger than 18 inches due to mercury or more than 12 meals per month of those fish smaller than 18 inches due to PCBs.

Length (Inches)	Regression Equation Estimate (ppm)	Meal Category
13	0.04	16
14	0.05	16
15	0.07	16
16	0.09	12
17	0.11	8
18	0.14	4
19	0.18	4
<i>Shaded area denotes extrapolated estimates</i>		





Iron County

Largemouth Bass

Cable Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
1988	1988	4	9.3	14	15.9	15.9		
Datasets available:		1988						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
Mercury	4	0.45	0.23	0.78	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	0.280	0.428						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	--	--	--	--	--		
Datasets available:		--						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
PCB	0	--	--	--	--	--		
DDT	0	--	--	--	--	--		
Chlordane	0	--	--	--	--	--		
Toxaphene	0	--	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
						Final meal category based on UCL:		--

Existing Advisory: Cable Lake largemouth bass are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guidelines apply. No one should eat more than 2 meals per month of largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches.

Walleye

Cable Lake

Iron County

Hg Analysis:

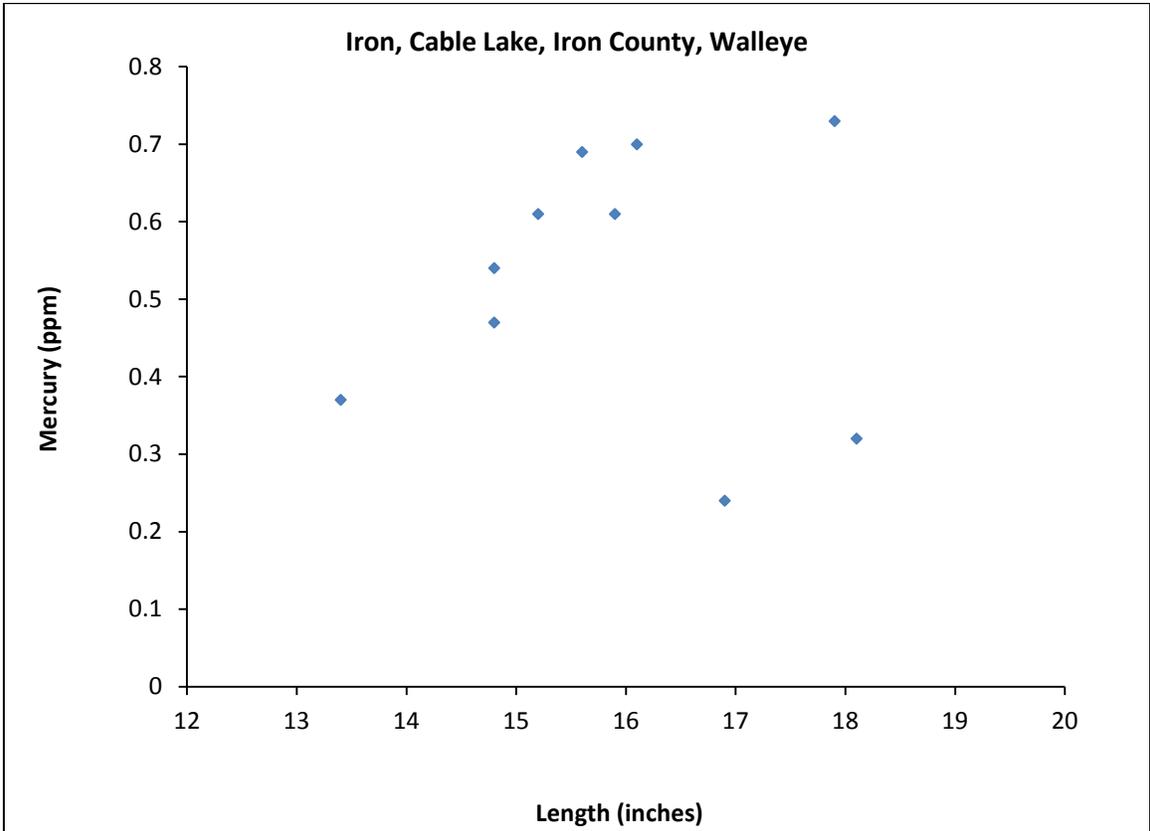
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	10	13.4	15	14.8	18.1
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	9	0.55	0.24	0.73	0.68	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.000	0.006				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Cable Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Cable Lake walleye smaller than 20 inches or more than 6 meals per year of those fish larger than 20 inches due to mercury. The statewide length break was applied as the size range of the fish collected was limited.



Lake Whitefish

Chicagon Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2000	2000	10	16.1	na	16.1	23.7
Datasets available: 2000						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.11	0.08	0.26	0.15	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.539	0.506				

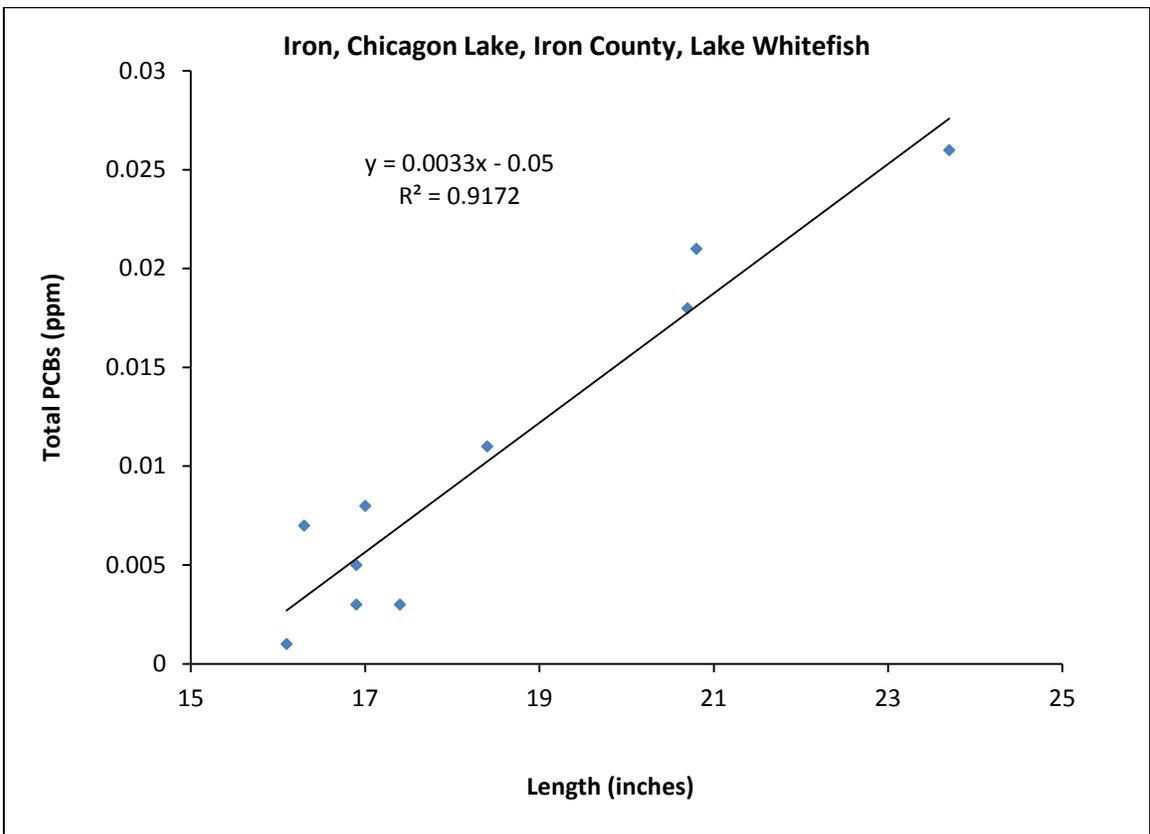
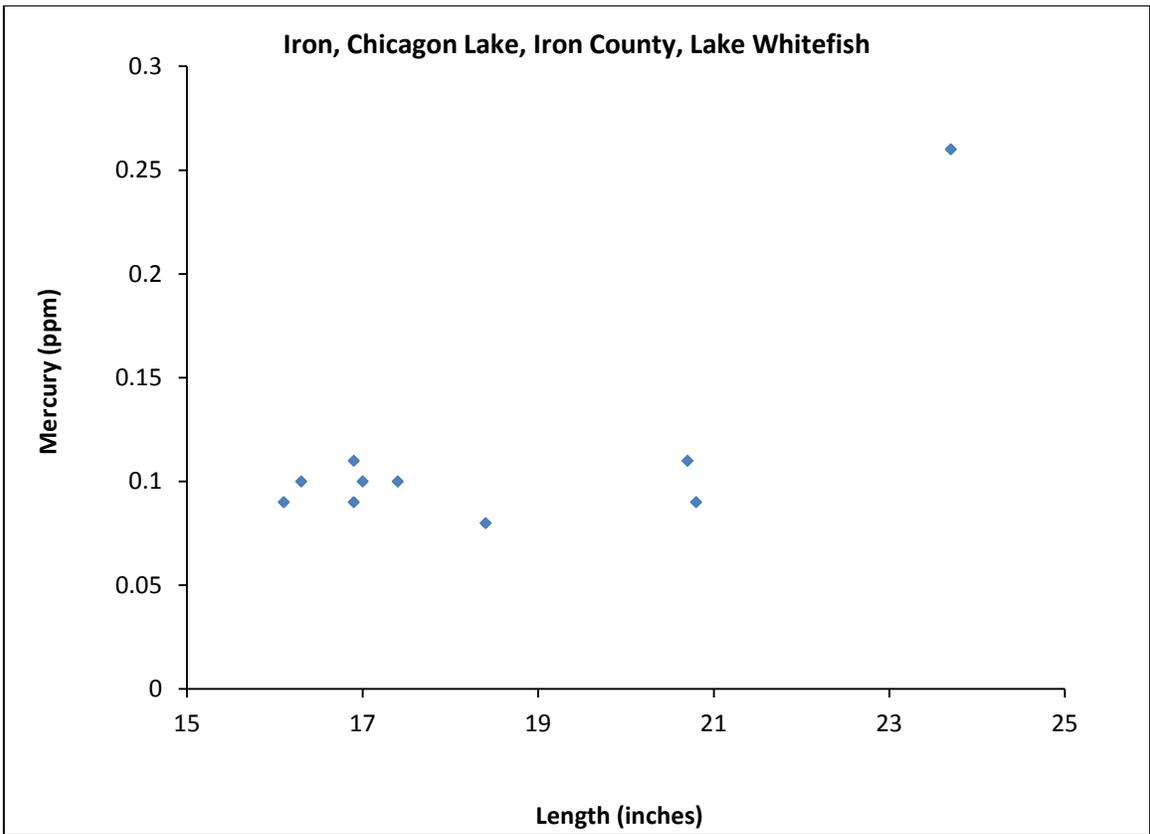
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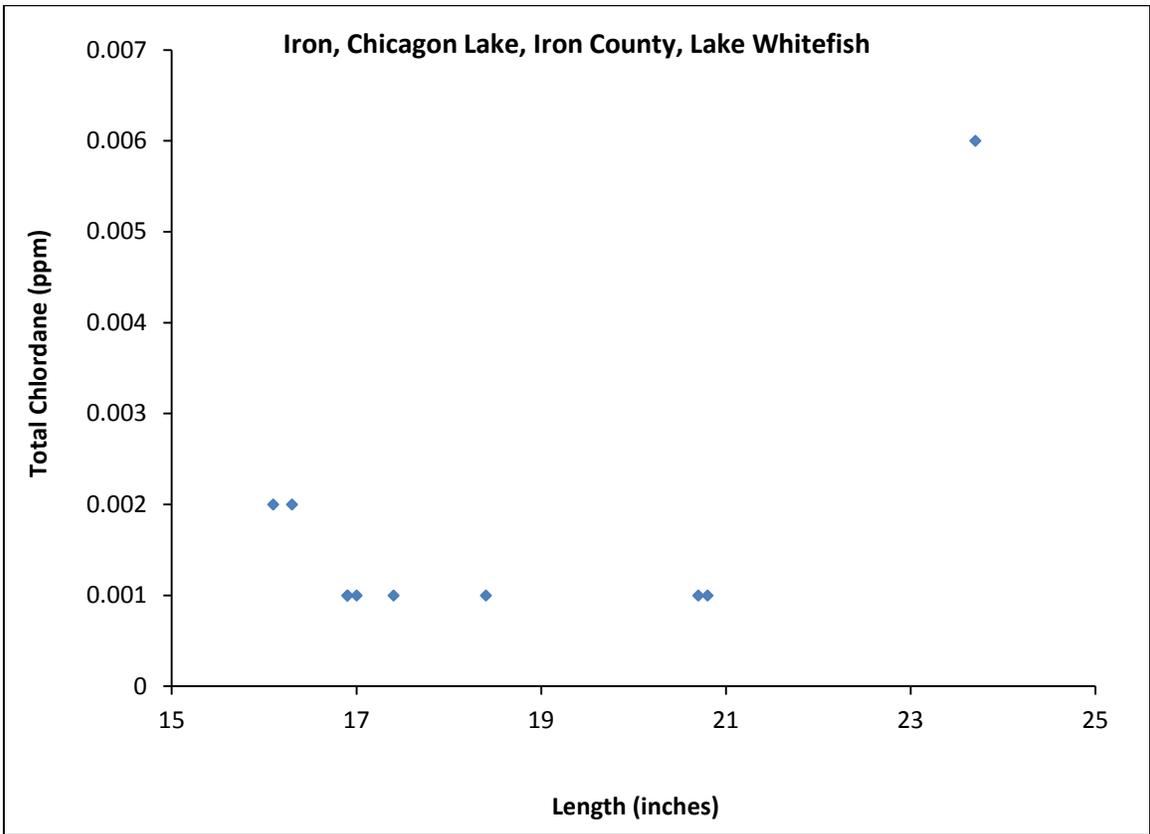
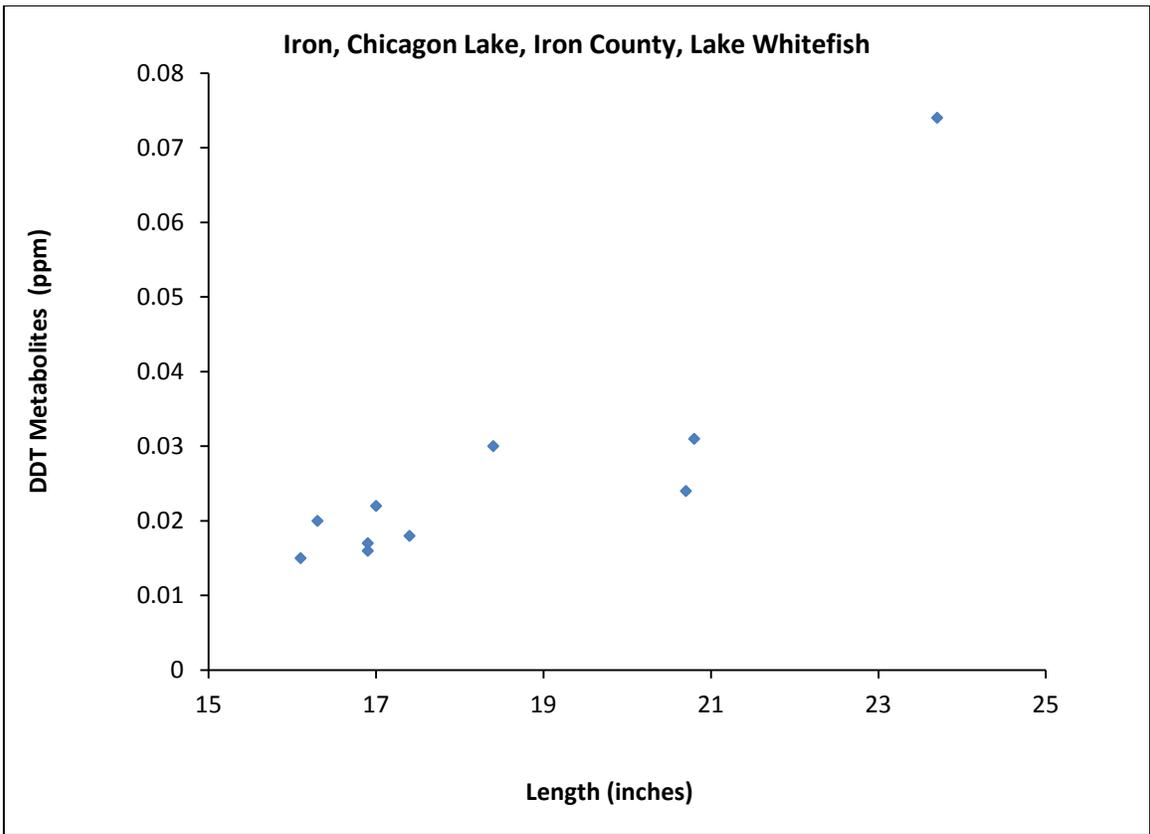
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2000	2000	10	16.1	na	16.1	23.7
Datasets available: 2000						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	0.01	0.001	0.03	0.02	12
DDT	10	0.03	0.02	0.07	0.04	12
Chlordane	10	0.003	0.001	0.006	0.004	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.917	0.661				
DDT	0.751	0.813				
Chlordane	0.388	0.229				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Chicagon Lake lake whitefish have no existing advisory.

Recommendation: No one should eat more than 4 meals per month of Chicagon Lake lake whitefish due to mercury. PCBs and DDT would cause advisories.

Length (Inches)	PCB Regression Equation Estimate (ppm)	Meal Category
16	0.003	16
18	0.01	16
20	0.02	12
22	0.02	8
24	0.03	8
26	0.04	4
28	0.04	4
<i>Shaded area denotes extrapolated estimates</i>		





Rock Bass

Chicagon Lake

Iron County

Hg Analysis:

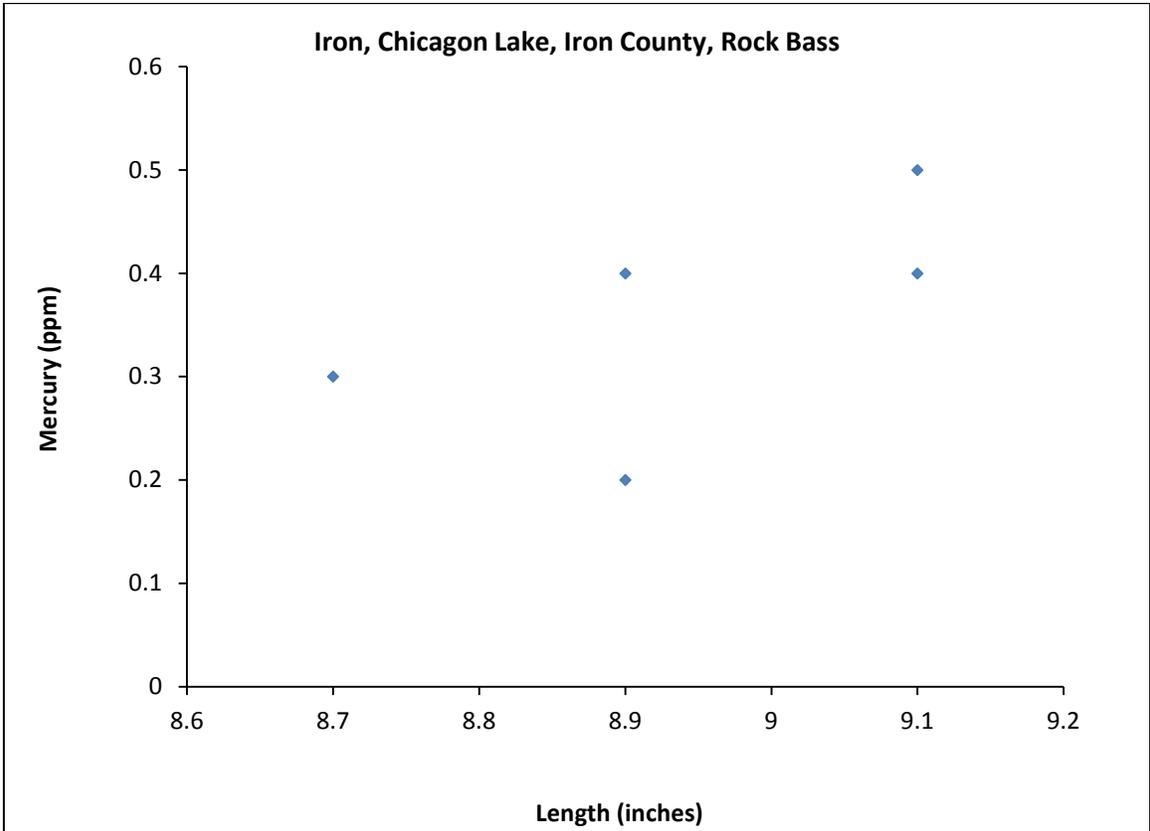
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	1986	5	8.7	na	8.7	9.1
Datasets available: 1986						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.36	0.2	0.5	0.50	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.396	0.315				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Chicagon Lake rock bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Chicagon Lake rock bass due to mercury.



Walleye

Chicagon Lake

Iron County

Hg & Se Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	2014	31	14.9	15	14.9	25
Datasets available: 1986, 1994, 2008, 2014						
Chemical	Sample Size (Legal)	Mean	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	31	0.59	0.24	1.15	0.67	1
Selenium	10	0.657	0.570	0.790	0.710	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.633	0.621				
Selenium	0.088	0.065				

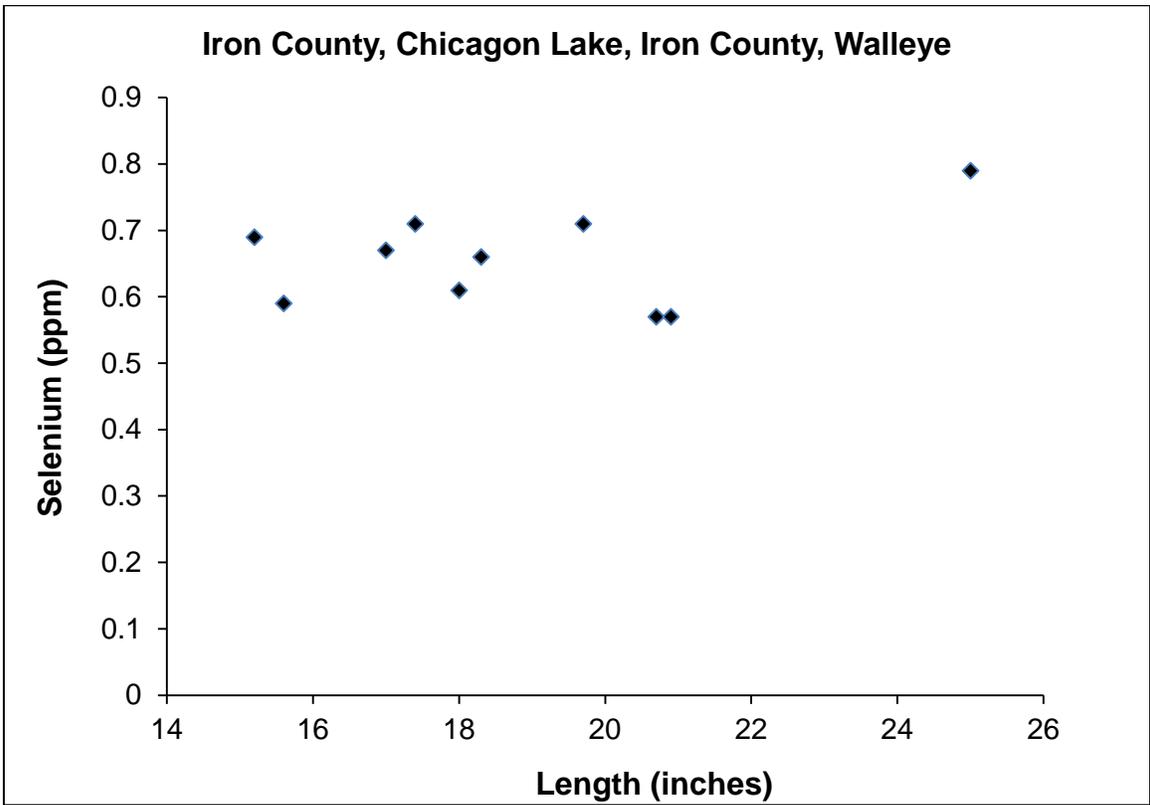
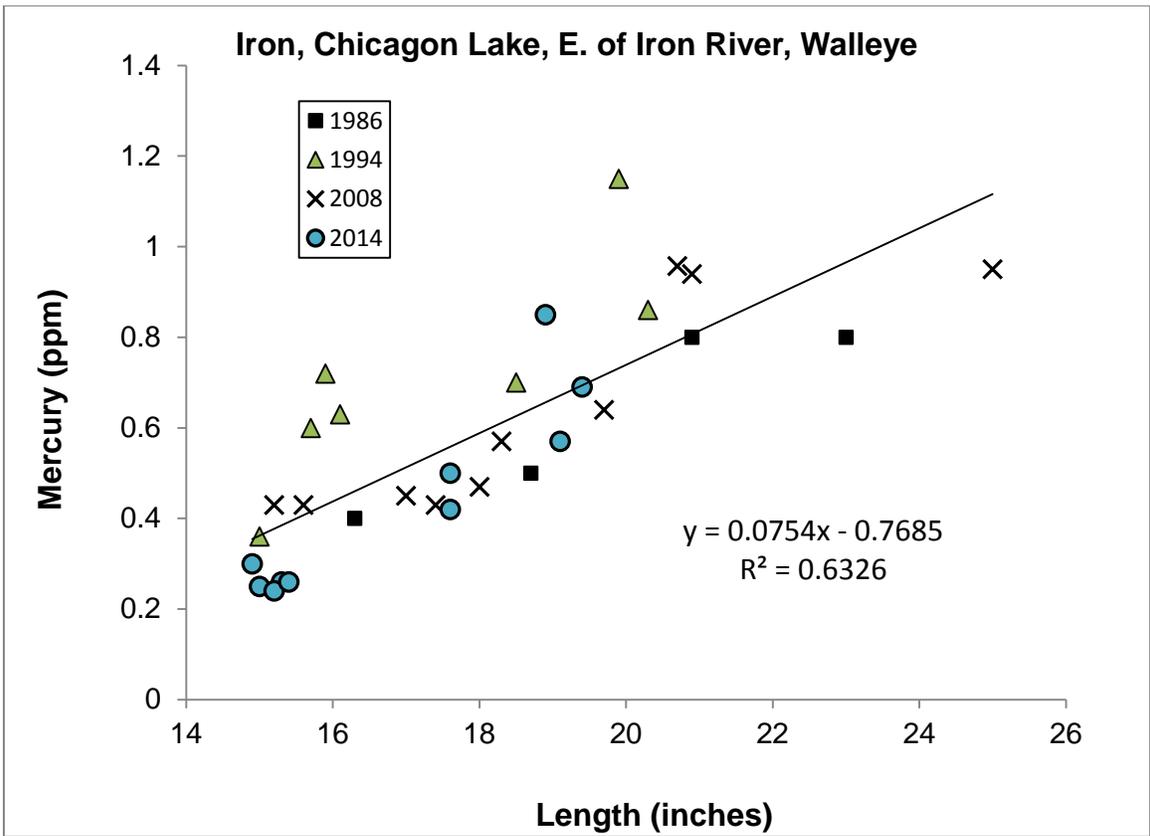
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	--	--	--	--	--	--
DDT	--	--	--	--	--	--
Chlordane	--	--	--	--	--	--
Toxaphene	--	--	--	--	--	--
TEQ	--	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
TEQ	--	--				
Final meal category based on UCL:						1

Existing Advisory: No one should eat more than 1 meal per month of Chicagon Lake walleye due to mercury.

Recommendation: No one should eat more than 1 meal per month of Chicagon Lake walleye smaller than 24 inches or more than 6 meals per year of those fish larger than 24 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppt)	Meal Category
14	0.29	2
16	0.44	2
18	0.59	1
20	0.74	1
22	0.89	1
24	1.04	1
26	1.19	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Northern Pike

Deer Lake

Iron County

Hg & Se Analysis:

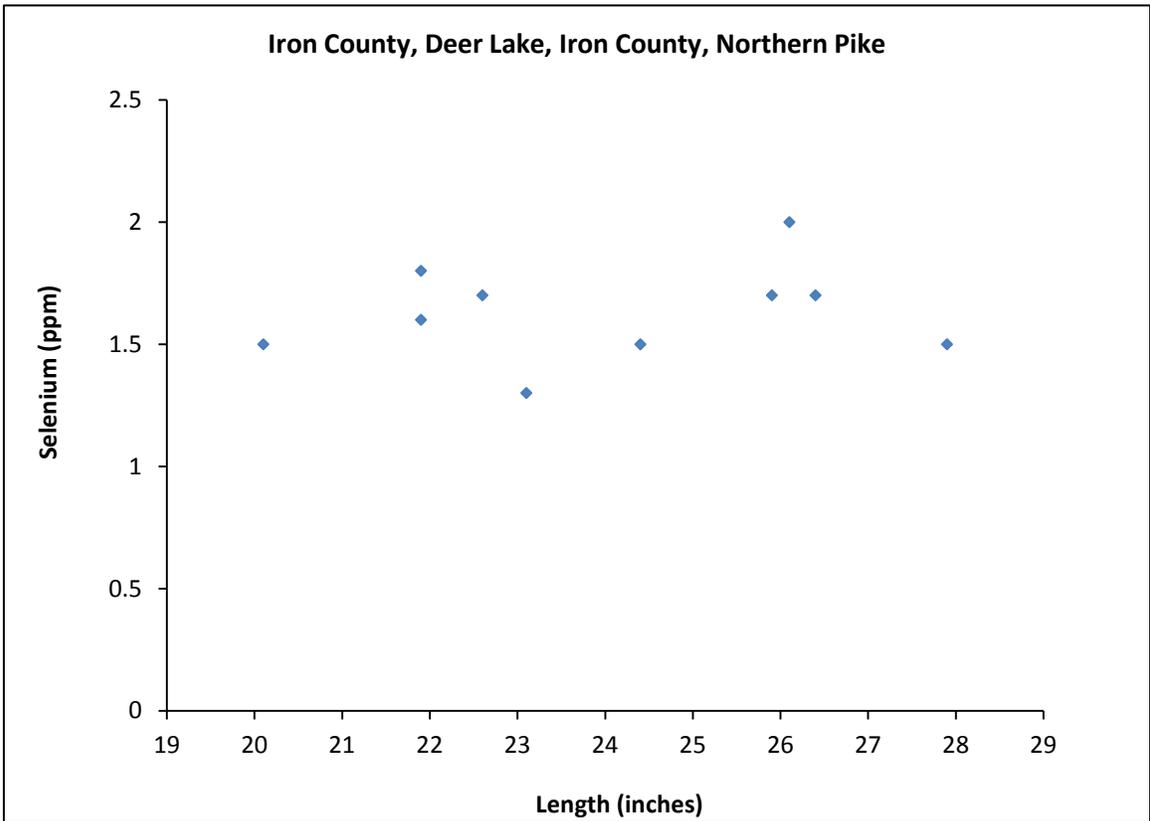
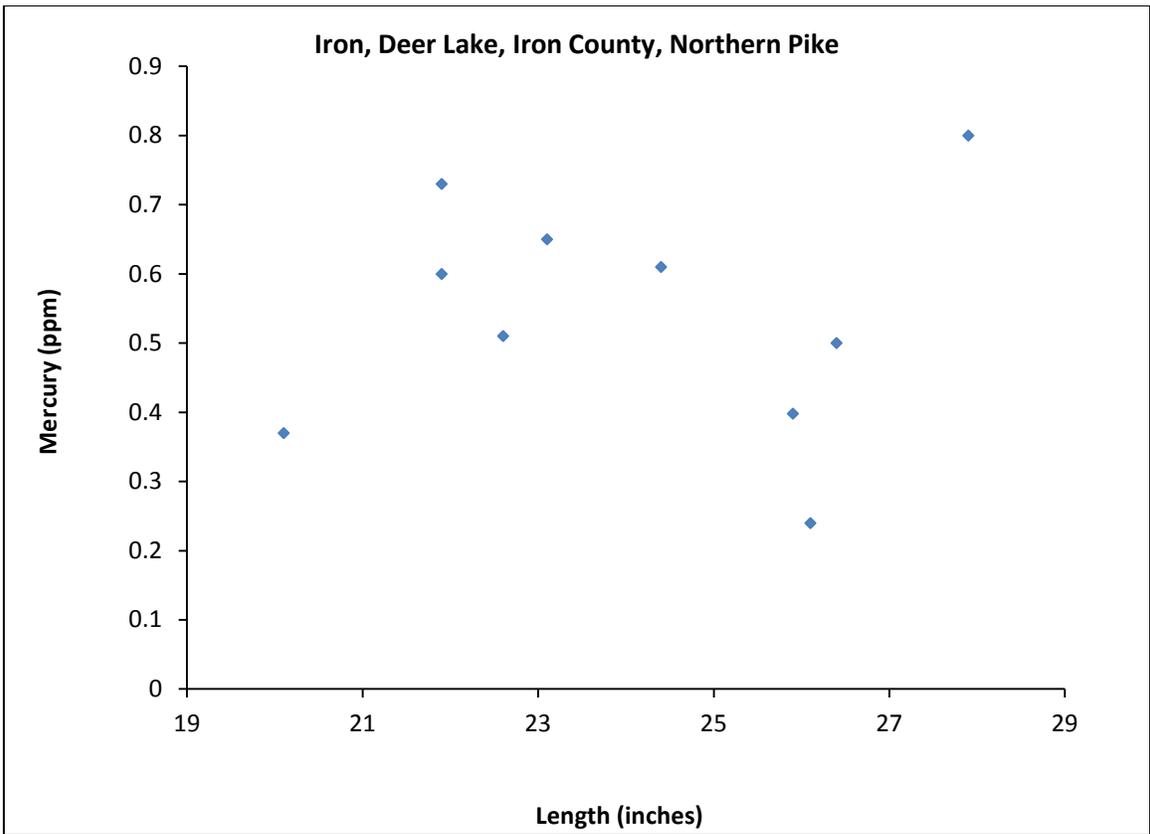
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2006	2006	10	20.1	24	24.4	27.9
Datasets available: 2006						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.51	0.24	0.8	0.77	1
Selenium	5	1.68	1.50	2.00	1.93	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.001	0.002				
Selenium	0.045	0.043				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	na	--	--	--	--
DDT	0	na	--	--	--	--
Chlordane	0	na	--	--	--	--
Toxaphene	0	na	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Deer Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Deer Lake northern pike smaller than 30 inches or more than 6 meals per year of those fish larger than 30 inches due to mercury. The statewide length break was applied as the size range of the fish was limited.



Northern Pike

Fire Lake

Iron County

Hg & Se Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2007	2007	10	19.1	24	24.1	32.2
Datasets available: 2007						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	3	0.36	0.23	0.59	--	--
Selenium	10	0.36	0.29	0.45	0.39	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.845	0.810				
Selenium	0.455	0.527				

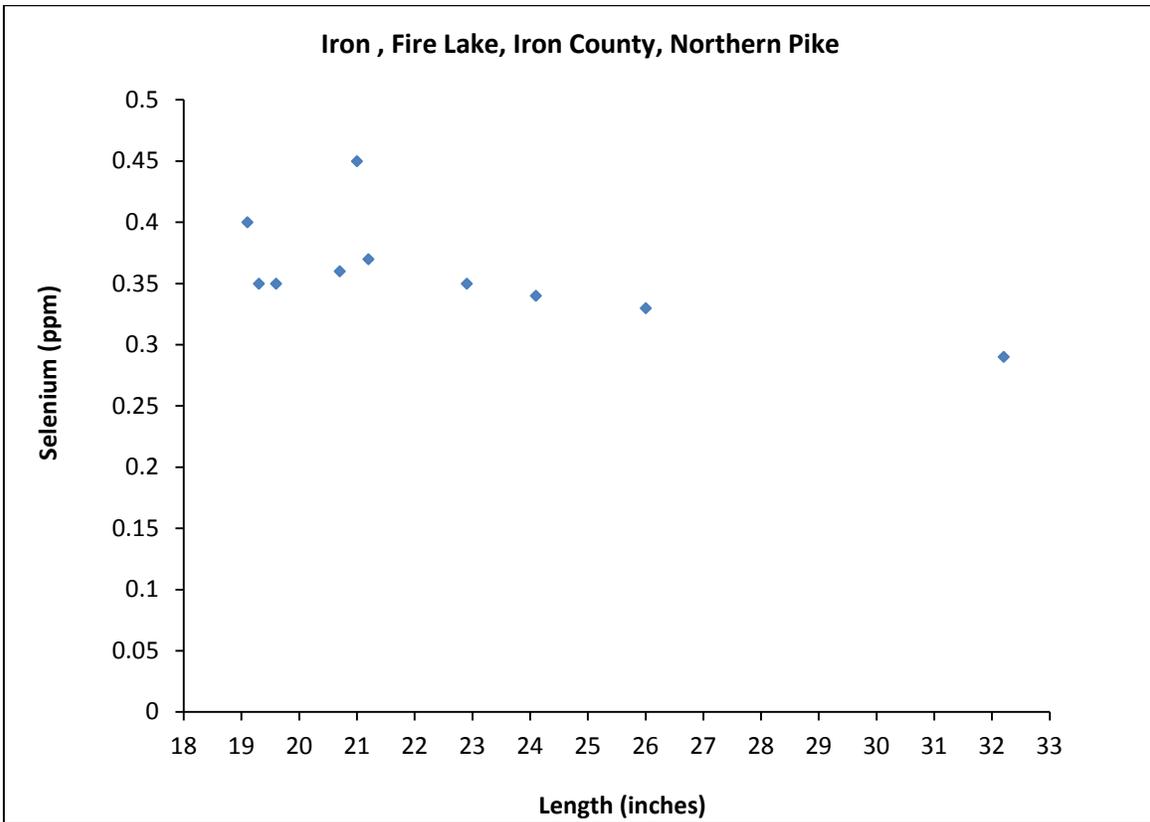
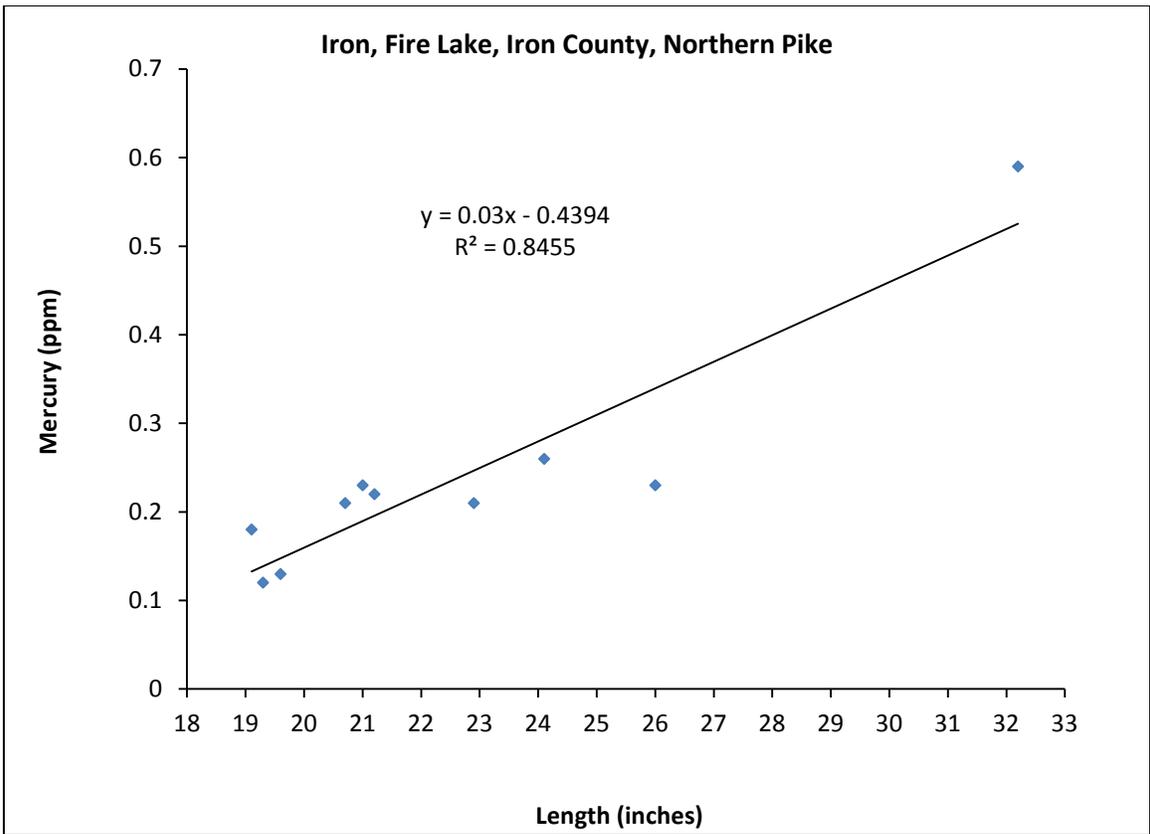
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	ND	--	--	--	--
DDT	0	ND	--	--	--	--
Chlordane	0	ND	--	--	--	--
Toxaphene	0	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Fire Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Fire Lake northern pike smaller than 30 inches or more than 1 meal per month of those fish larger than 30 inches due to mercury. The statewide length break was applied as the size range of the fish collected was limited.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
22	0.22	4
24	0.28	2
26	0.34	2
28	0.40	2
30	0.46	2
32	0.52	2
34	0.58	1
36	0.64	1
38	0.70	1
<i>Shaded area denotes extrapolated estimates</i>		



**Largemouth Bass
& Smallmouth Bass
Hg Analysis:**

Fortune Lake

Iron County

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1990	1990	8	12.2	14	13.8	18.9
Datasets available: 1990						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	4	0.59	0.26	0.89	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.827	0.755				

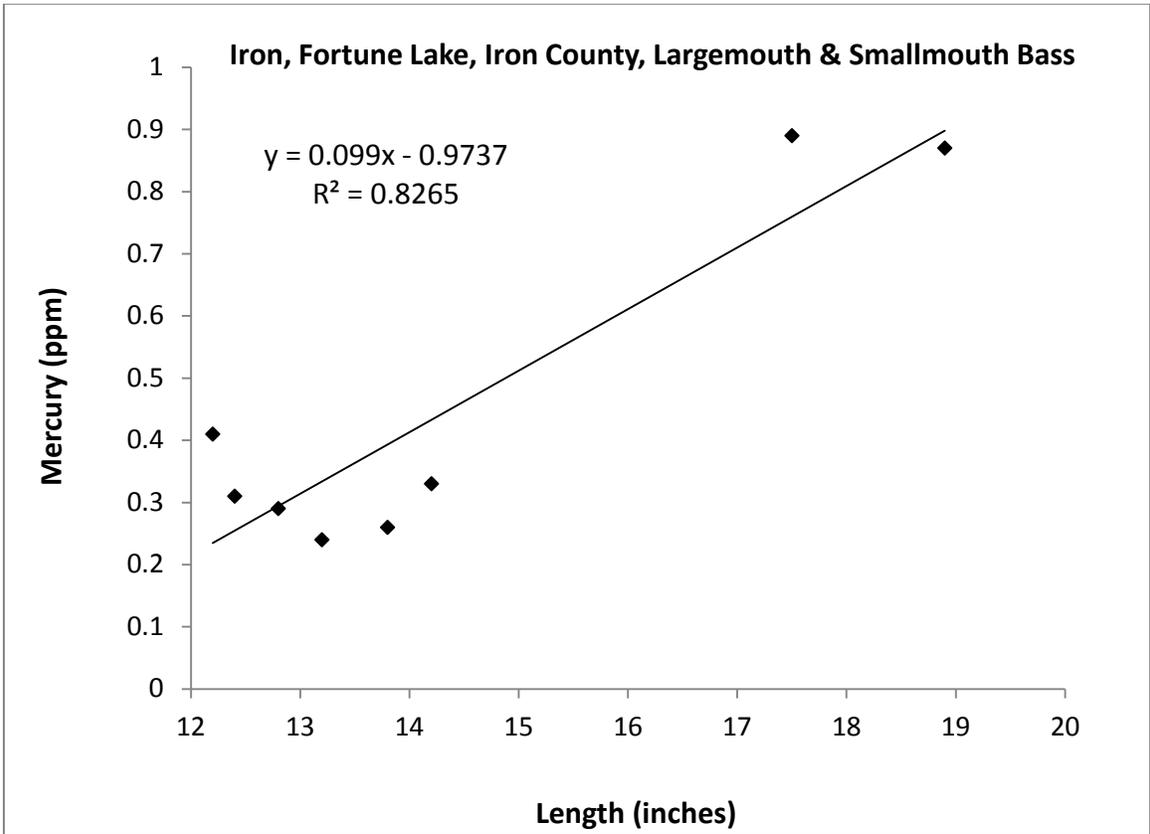
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Fortune Lake largemouth bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Fortune Lake largemouth or smallmouth bass smaller than 18 inches or more than 6 meals per year of those fish larger than 18 inches due to mercury. The statewide length break was applied as the size range of the fish collected was limited.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
12	0.21	4
14	0.41	2
16	0.61	1
18	0.81	1
20	1.01	1
22	1.2	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Smallmouth Bass

Hagerman Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of All Samples	
Earliest	Most Recent				Min	Max
1988	1988	4	12.2	14	12.2	13
Datasets available: 1988						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	4	0.11	0.1	0.11	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	4	12.2	14	12.2	13
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	4	ND	--	--	--	--
DDT	4	0.01	0.009	0.02	--	--
Chlordane	4	ND	--	--	--	--
Toxaphene	4	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Hagerman Lake smallmouth bass are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guidelines apply. No one should eat more than 2 meals per month of largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches.

Walleye

Hagerman Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	10	17.1	15	17.1	24.2
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.25	0.15	0.44	0.32	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.609	0.580				

Organics Analysis:

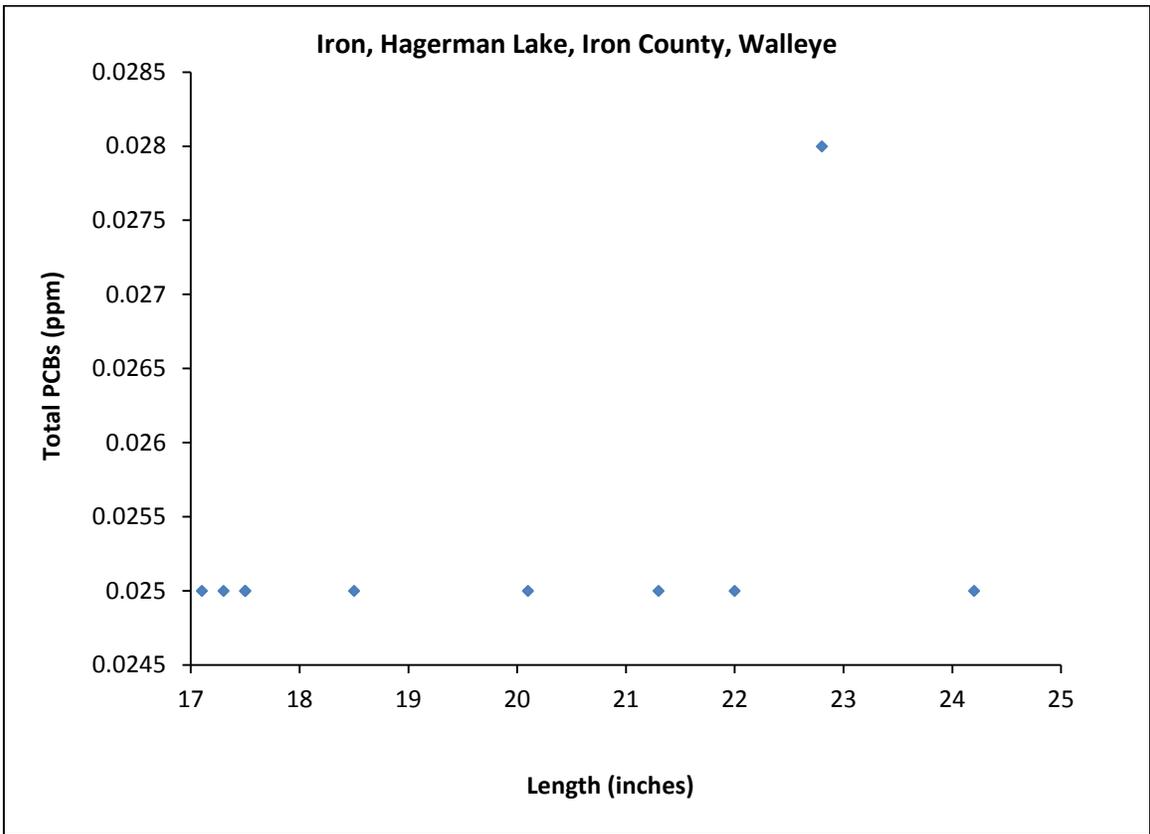
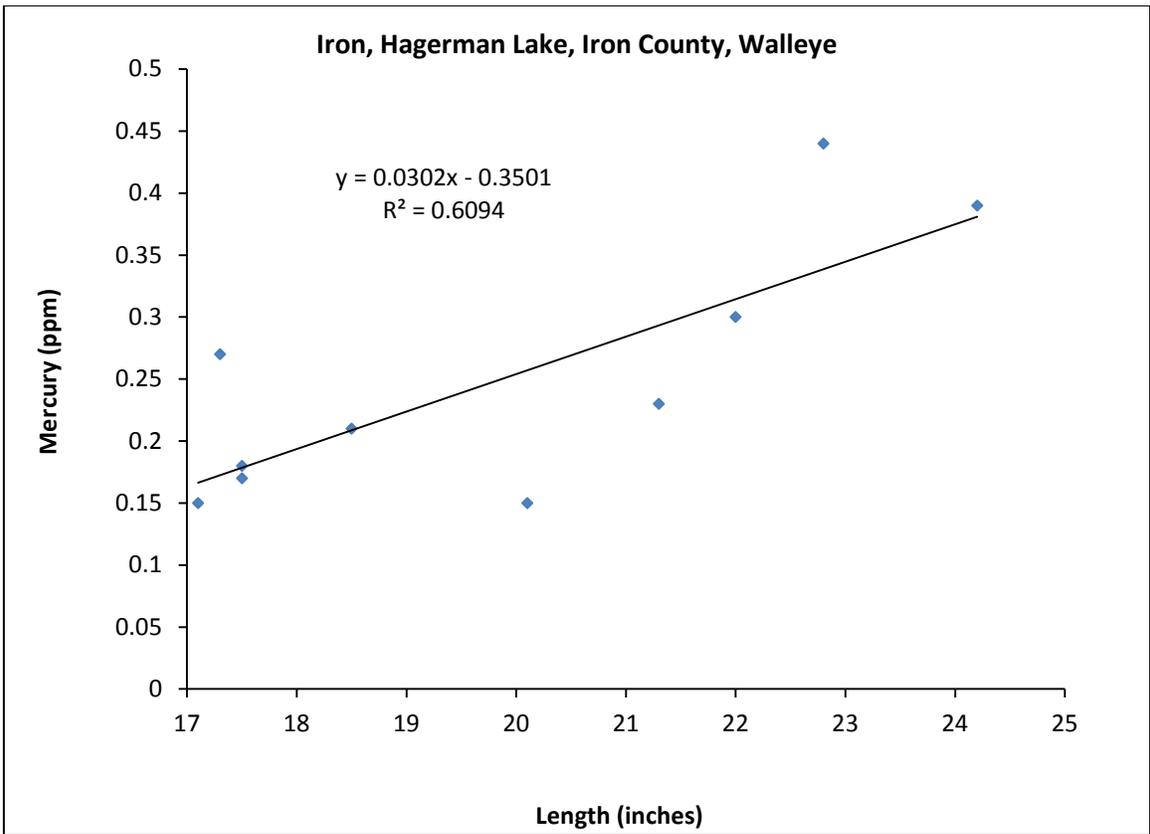
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	10	17.1	15	17.1	24.2
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	0.03	0.025	0.028	0.03	8
DDT	10	0.03	0.011	0.074	0.04	12
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.160	0.160				
DDT	0.439	0.439				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

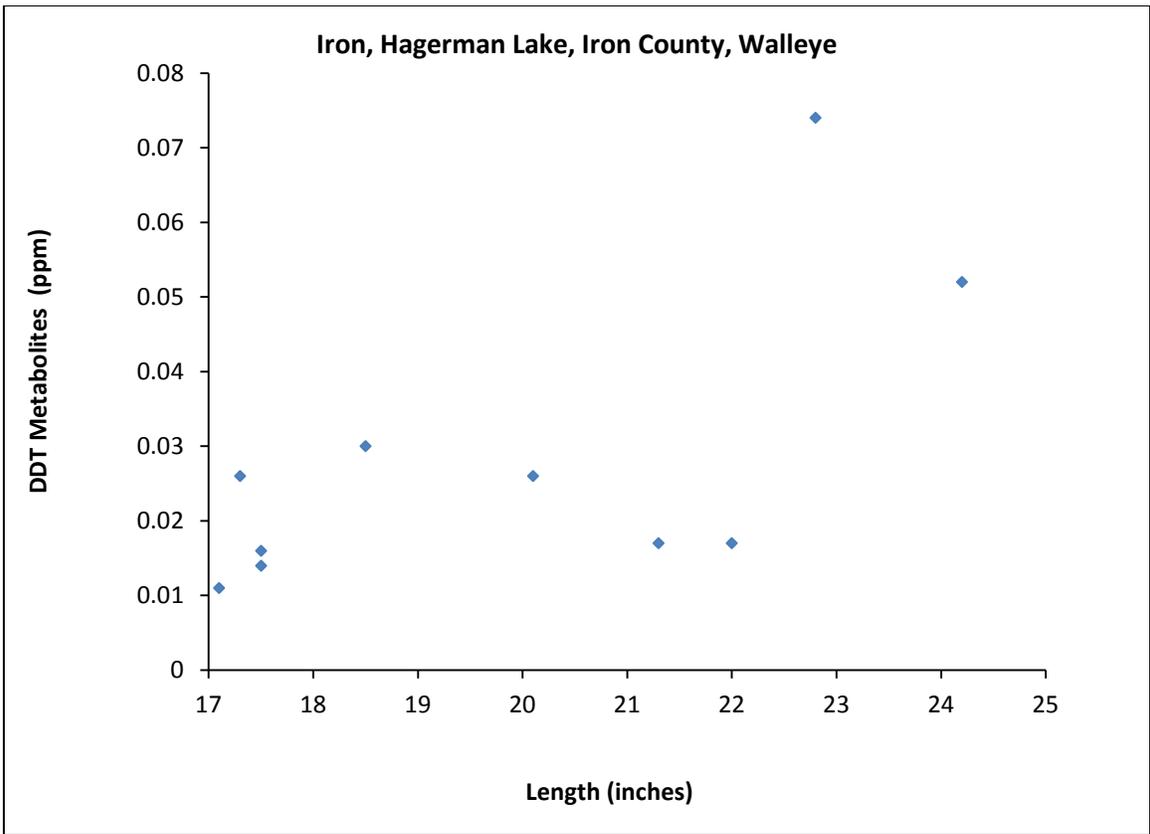
Existing Advisory: Hagerman Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 4 meals per month of Hagerman Lake walleye smaller than 20 inches or more than 2 meals per month of those fish larger than 20 inches due to mercury.

Note: The potential for PCBs and DDT to cause advisories is discounted due to the age of the data.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
16	0.13	4
18	0.19	4
20	0.25	4
22	0.31	2
24	0.37	2
26	0.44	2
28	0.50	2
30	0.56	1
<i>Shaded area denotes extrapolated estimates</i>		





Northern Pike

Indian Lake

Iron County

Hg & Se Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2008	2008	10	14.2	na*	14.2	23.6
Datasets available: 2008						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.23	0.10	0.87	0.39	2
Selenium	10	0.29	0.26	0.37	0.32	16
Chemical	Linear Regression	Exponential Regression	*There is no size limit for Indian Lake (Iron County) northern pike.			
	R ²	R ²				
Mercury	0.821	0.879				
Selenium	0.479	0.448				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression	Final meal category based on UCL: 2			
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				

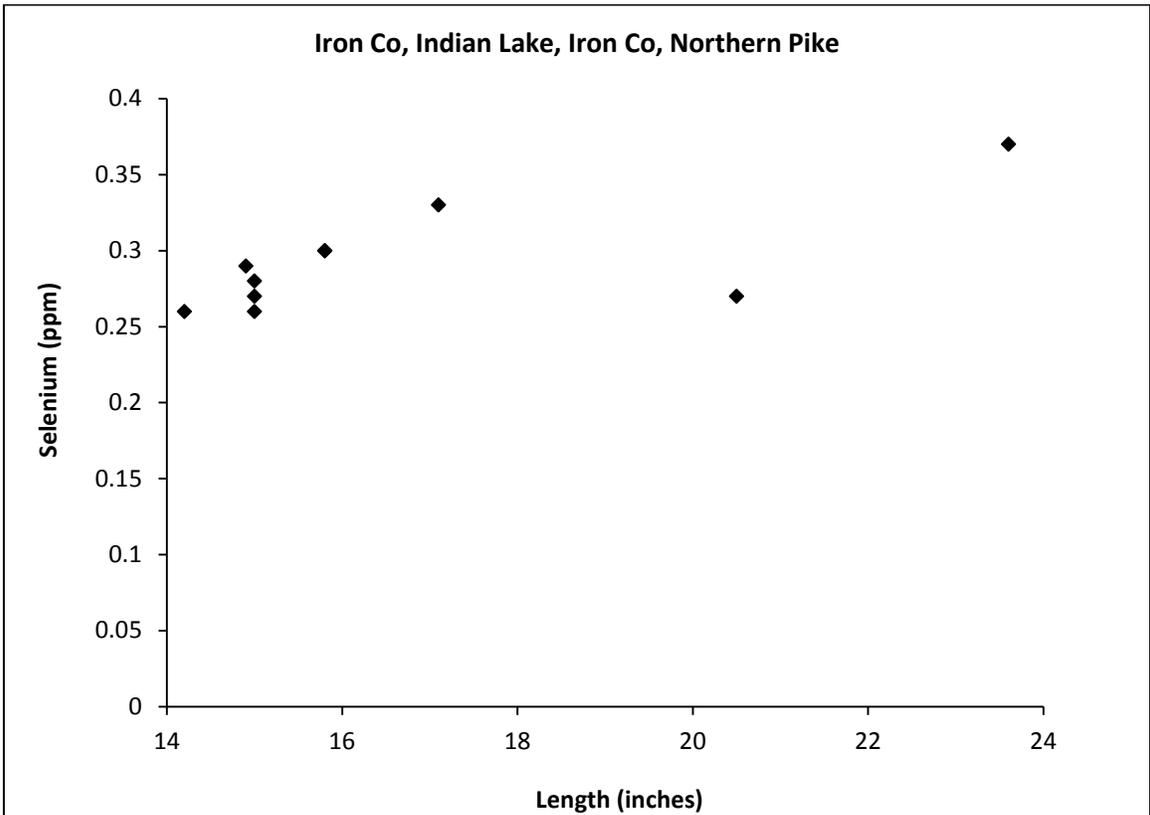
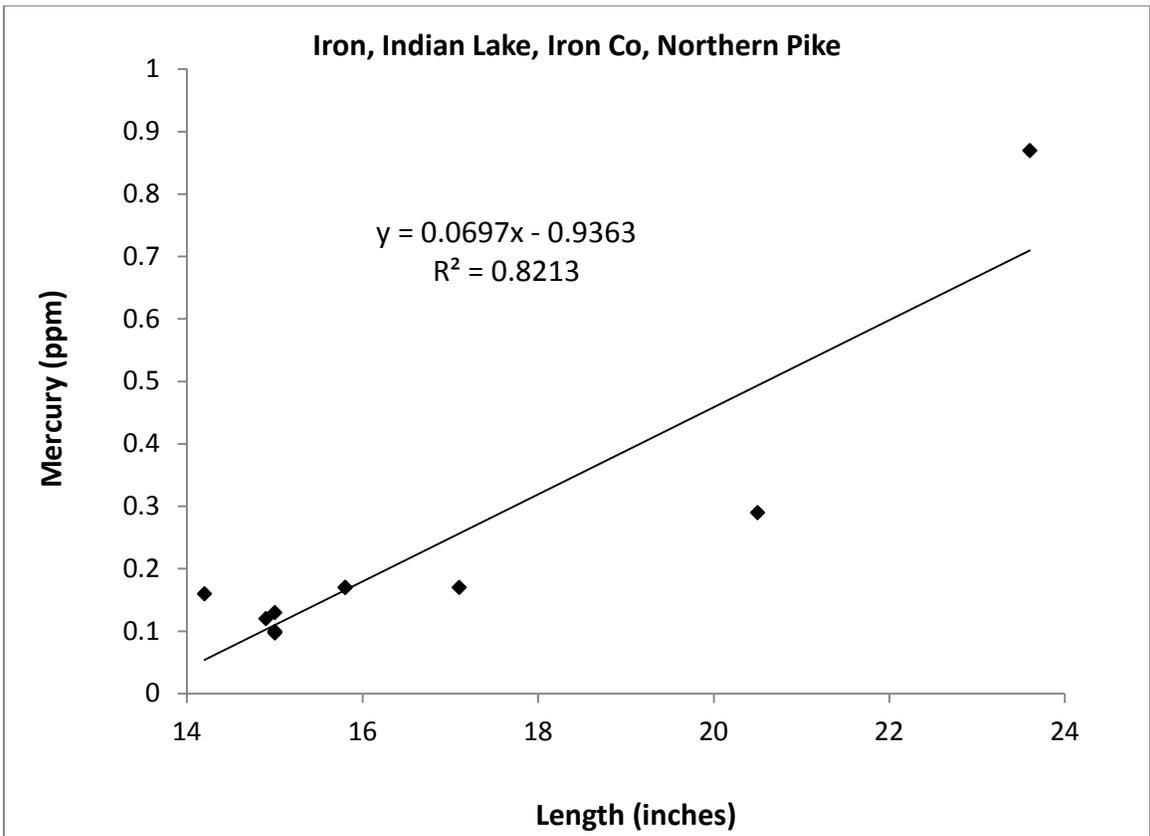
Existing Advisory: Indian Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Indian Lake northern pike smaller than 20 inches or more than 1 meal per month of those fish larger than 20 inches due to mercury.

Note: Linear regression was used to generate meal categories; exponential regression line appeared less realistic for larger fish.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
16	0.18	4
18	0.32	2
20	0.46	2
22	0.60	1
24	0.74	1
26	0.88	1
28	1.02	1
30	1.15	0.5

Shaded area denotes extrapolated estimates



Brown Trout

**Iron River
Above Wild River Road**

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1998	1998	10	6.9	8	7.5	8.7
Datasets available: 1998						
Chemical	Sample Size (All)*	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	2	0.085	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1998	1998	10	6.9	8	7.5	8.7
Datasets available: 1998						
Chemical	Sample Size (All)*	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	2	ND	--	--	--	--
DDT	2	0.003	--	--	--	--
Chlordane	2	ND	--	--	--	--
Toxaphene	2	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

* - 2 composite samples of 5 fillets each

Existing Advisory: Iron River brown trout are not covered by an advisory.

Recommendation: There are insufficient data available to develop specific advice for Iron River brown trout.

Walleye

Long Lake

Iron County

Hg Analysis:

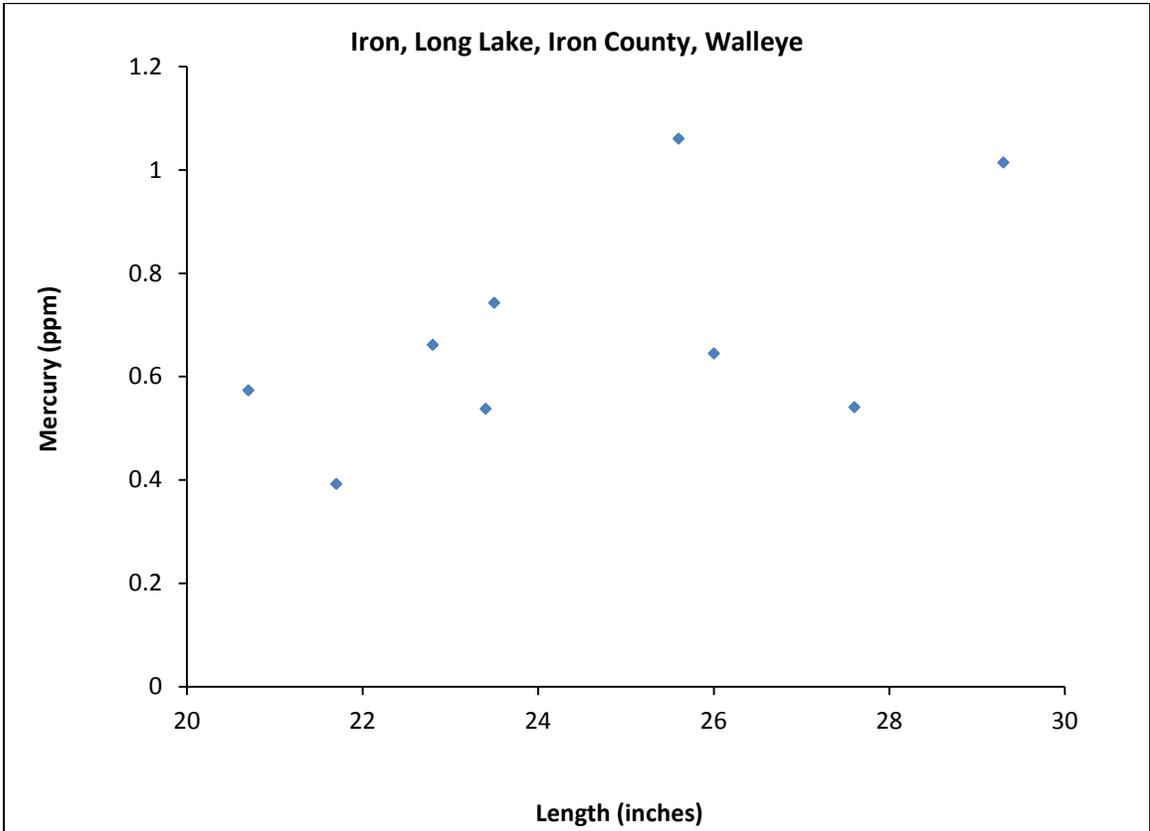
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2007	2007	9	20.7	15	20.7	29.3
Datasets available: 2007						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	9	0.69	0.39	1.06	0.86	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.329	0.321				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Long Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Long Lake walleye due to mercury.



Largemouth Bass

Lake Emily

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	10	11.2	14	13.8	16.9
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.61	0.45	0.80	0.77	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.908	0.940				

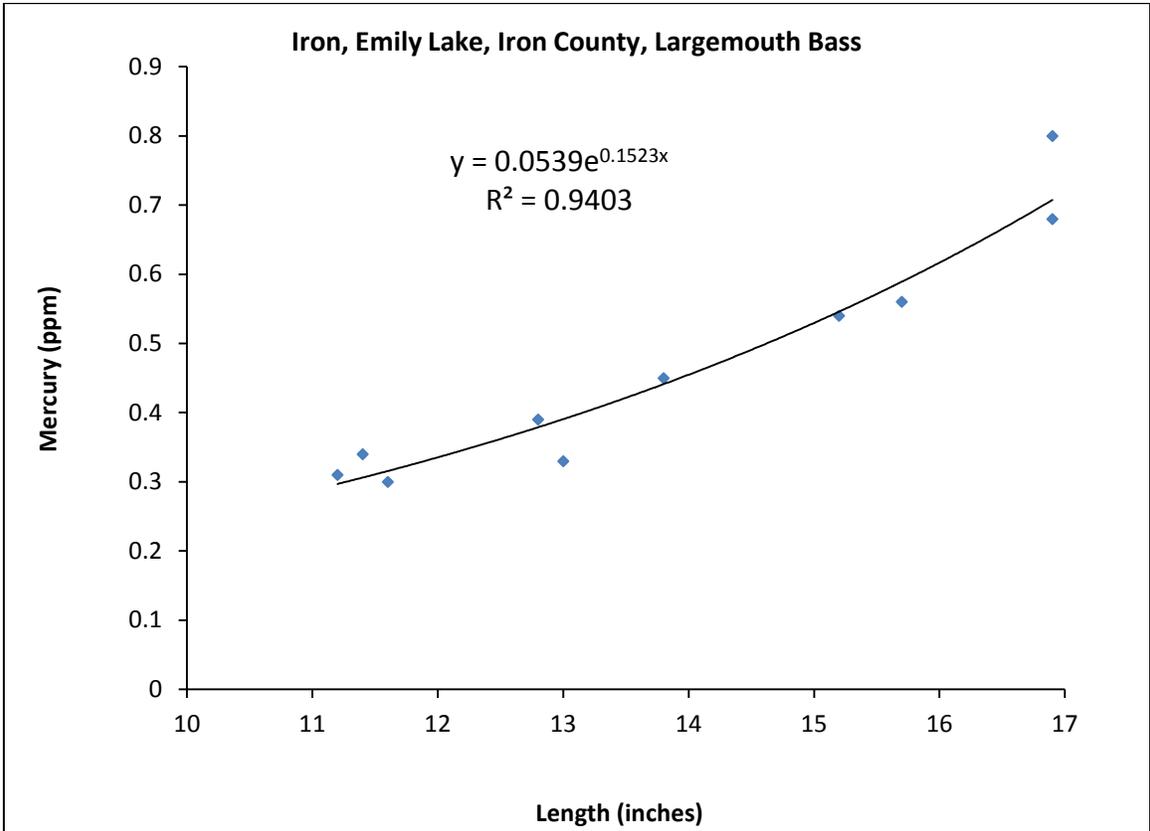
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Emily Lake largemouth bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Emily Lake largemouth or smallmouth bass smaller than 18 inches or more than 6 meals per year of those fish larger than 18 inches due to mercury. The statewide length break was applied as the size range of the fish collected was limited.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
12	0.34	2
14	0.45	2
16	0.62	1
18	0.84	1
20	1.13	0.5
22	1.54	0.5
24	2.08	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Lake Emily

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	2014	20	12	15		24.9
Datasets available: 1988, 2014						
Chemical	Sample Size (Legal)	Mean	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	18	0.63	0.26	1.17	0.77	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.632	0.667				

Organics Analysis:

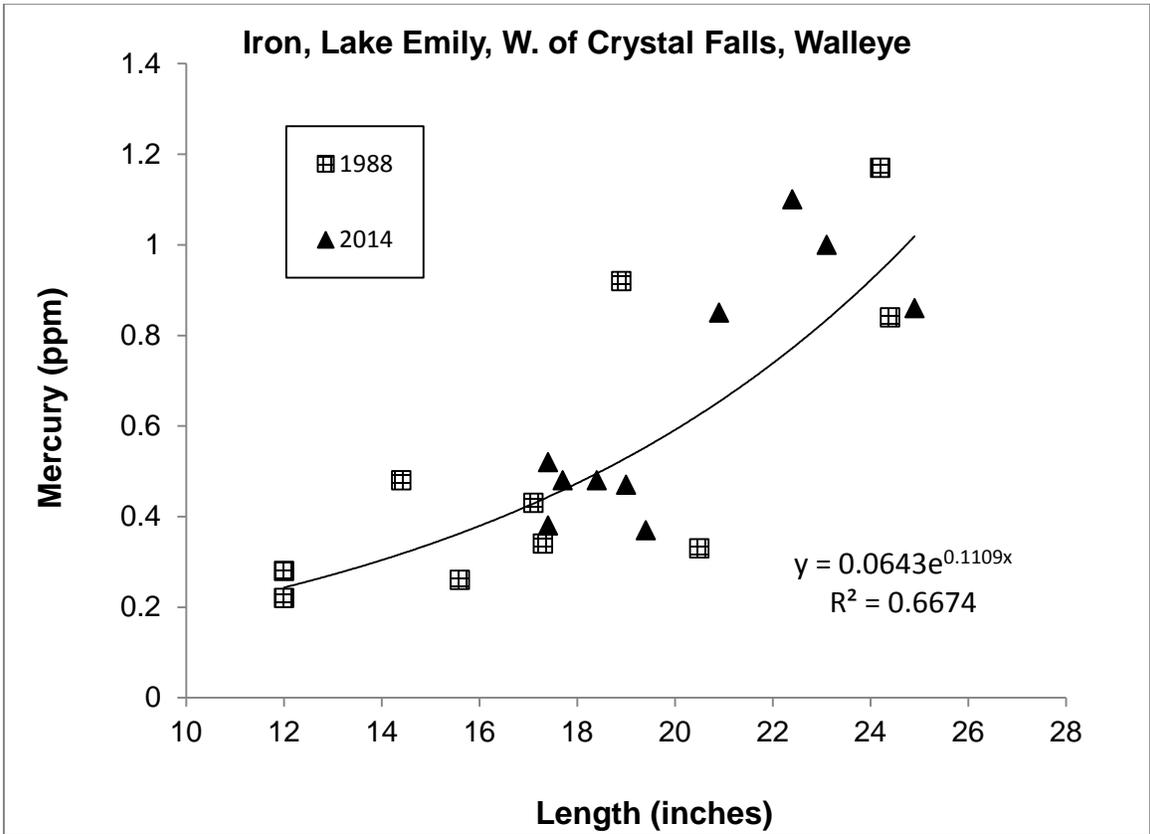
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	NA	--	--	--	--
DDT	0	NA	--	--	--	--
Chlordane	0	NA	--	--	--	--
Toxaphene	0	NA	--	--	--	--
TEQ	0	NA	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
TEQ	--	--				
Final meal category based on UCL:						1

Existing Advisory: No one should eat more than 2 meals per month of Emily Lake walleye smaller than 20 inches or more than 1 meal per month of those fish larger than 20 inches due to mercury.

Recommendation: No change is recommended.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
14	0.3	2
16	0.38	2
18	0.47	2
20	0.59	1
22	0.74	1
24	0.92	1
26	1.15	0.5
28	1.43	0.5

Shaded area denotes extrapolated estimates



Brown Bullhead

Marten Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
1985	1985	2	11.7	na	11.7	14.5		
Datasets available: 1985								
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
Mercury	2	0.5	0.2	0.8	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	--	--						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	--	--	--	--	--		
Datasets available: --								
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
PCB	0	--	--	--	--	--		
DDT	0	--	--	--	--	--		
Chlordane	0	--	--	--	--	--		
Toxaphene	0	--	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
						Final meal category based on UCL:		--

Existing Advisory: Marten Lake brown bullhead have no existing advisory.

Recommendation: There are insufficient data available to develop specific advice for Marten Lake bullhead due to mercury.

Note: Limited evidence from this lake suggests elevated relatively high Hg concentrations; results for northern pike from this lake are high relative to the statewide median.

Northern Pike

Marten Lake

Iron County

Hg Analysis:

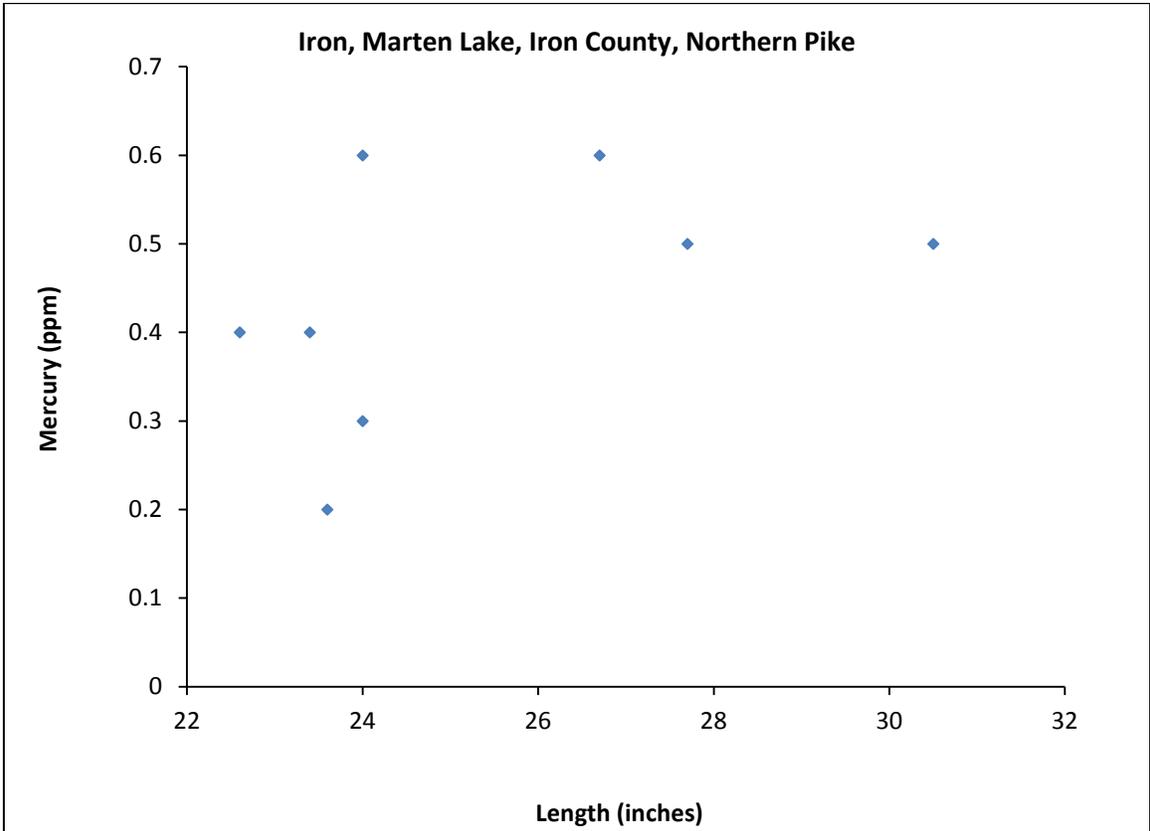
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1985	1985	8	22.6	24	23.6	30.5
Datasets available: 1985						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	0.45	0.2	0.6	0.62	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.216	0.212				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Marten Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Marten Lake northern pike smaller than 30 inches or more than 6 meals per year of those fish larger than 30 inches due to mercury. The statewide length break was applied as the size range of the fish collected was limited.



Northern Pike

**Net River
Iron County, The Wide Waters**

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1989	10	19.5	na*	19	25
Datasets available: 1989						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.42	0.24	0.65	0.52	2
Chemical	Linear Regression	Exponential Regression	* - there is no size limit for Net River northern pike			
	R ²	R ²				
Mercury	0.648	0.623				

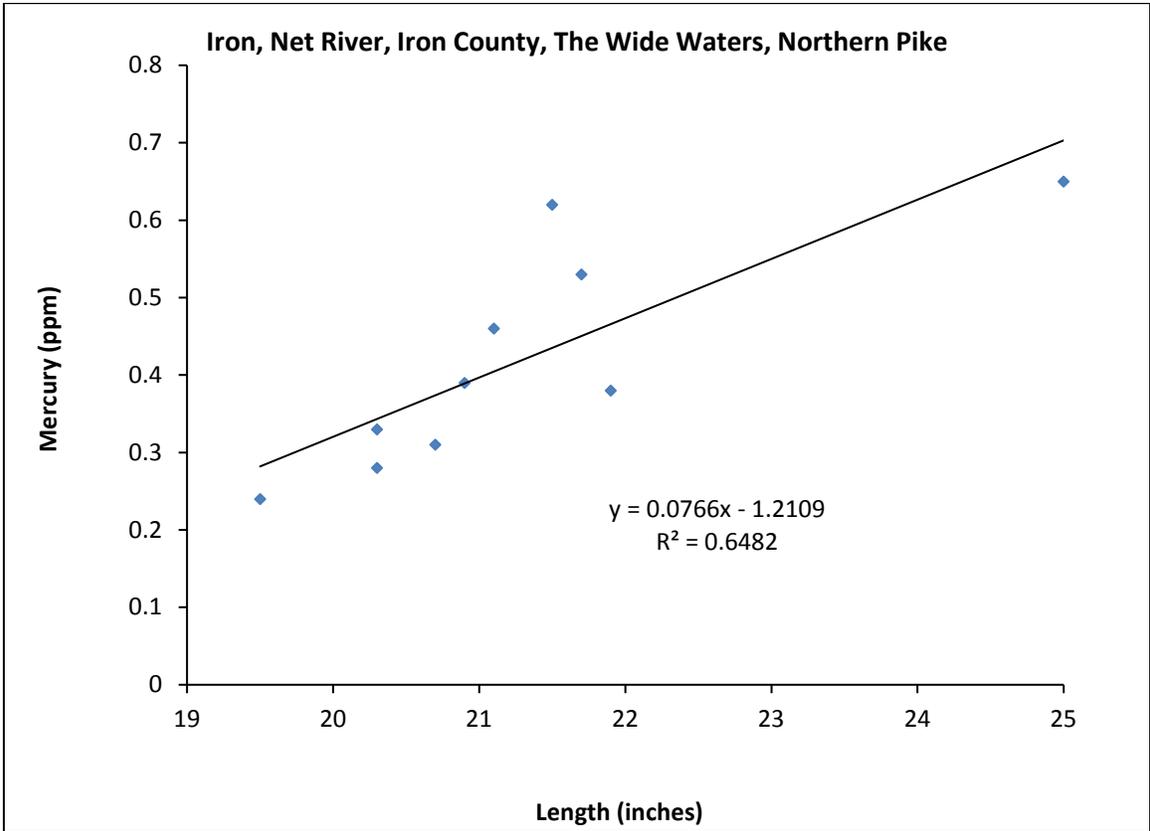
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1989	10	19.5	na*	19	25
Datasets available: 1989						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	ND	--	--	--	--
DDT	10	ND	--	--	--	--
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Women and children should eat no more than one meal per month of Net River northern pike.

Recommendation: No one should eat more than 1 meals per month of Net River northern pike smaller than 30 inches or more than 6 meal per year of those fish larger than 30 inches due to mercury. The statewide length break was applied as the size range of the collected fish was limited.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
19	0.24	4
21	0.40	2
23	0.55	1
25	0.70	1
27	0.86	1
29	1.01	1
31	1.16	0.5
33	1.32	0.5
35	1.47	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

**Net River
Iron, The Wide Waters**

Iron County

Hg Analysis:

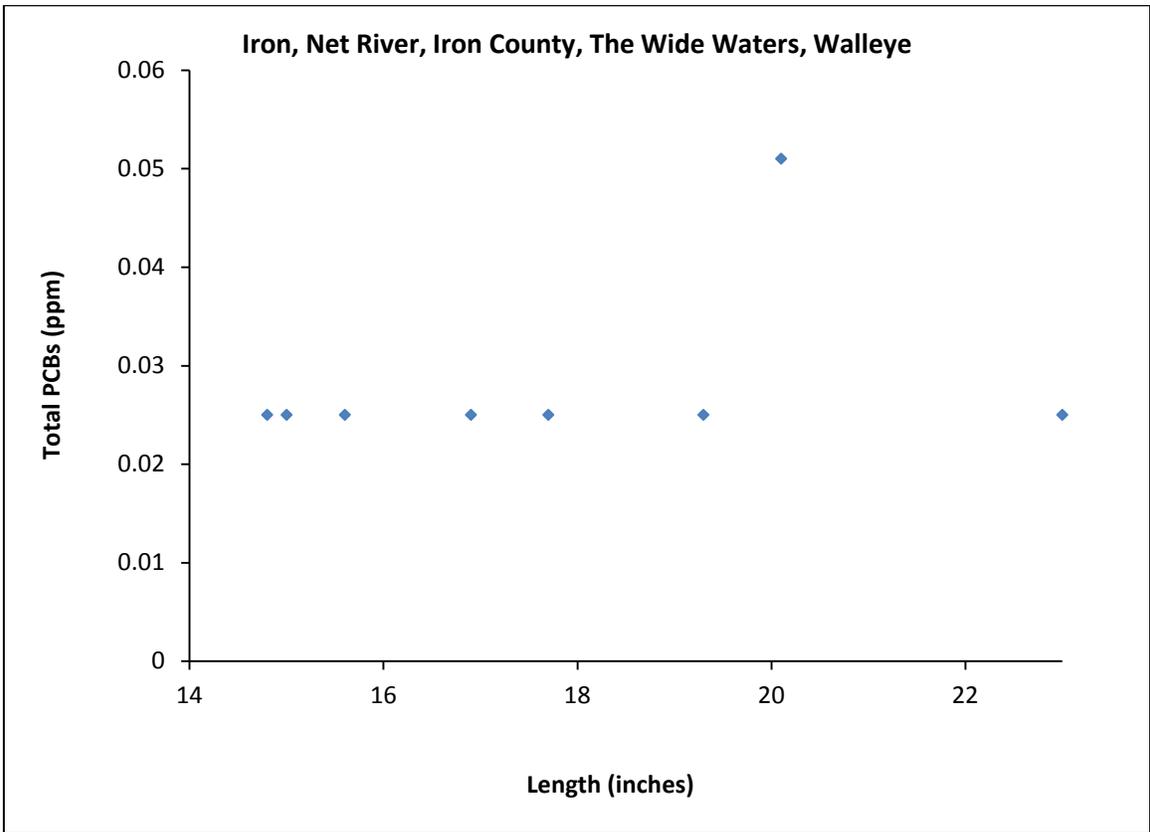
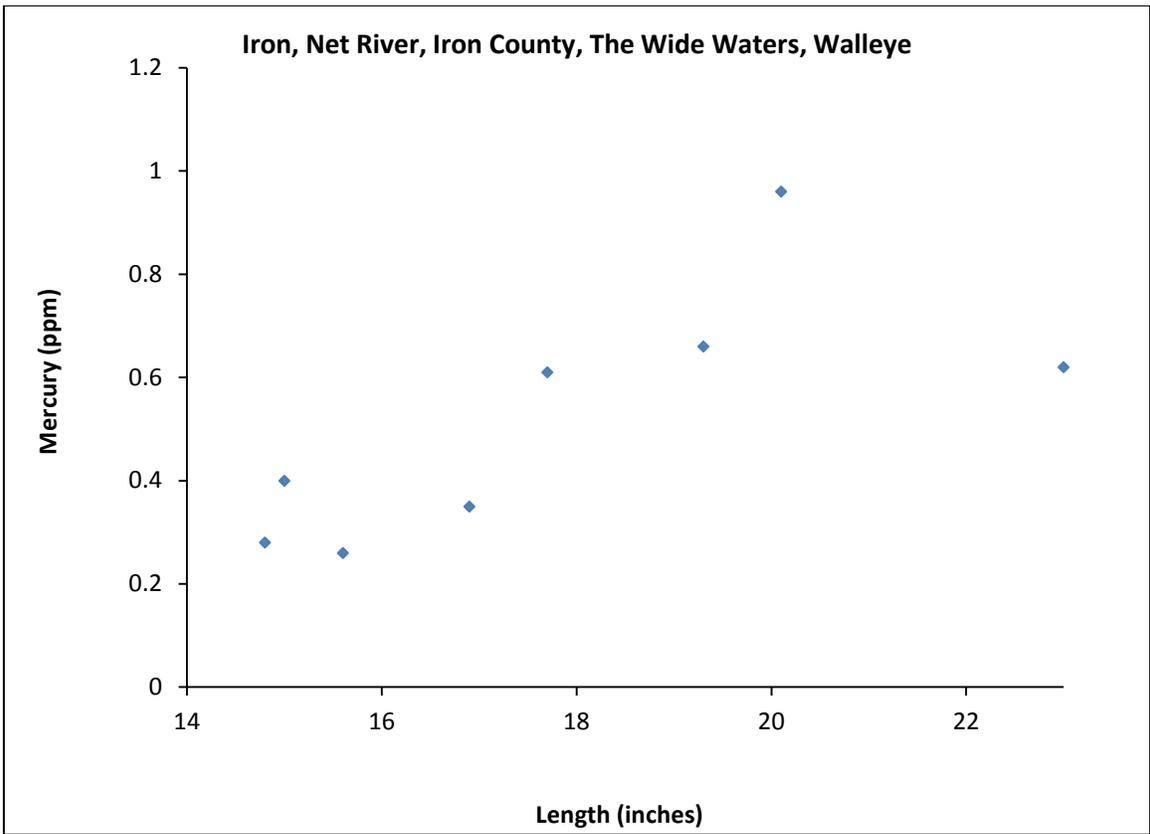
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1989	8	14.8	15	14.8	23
Datasets available: 1989						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	8	0.52	0.26	0.96	0.72	1
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.541	0.595				

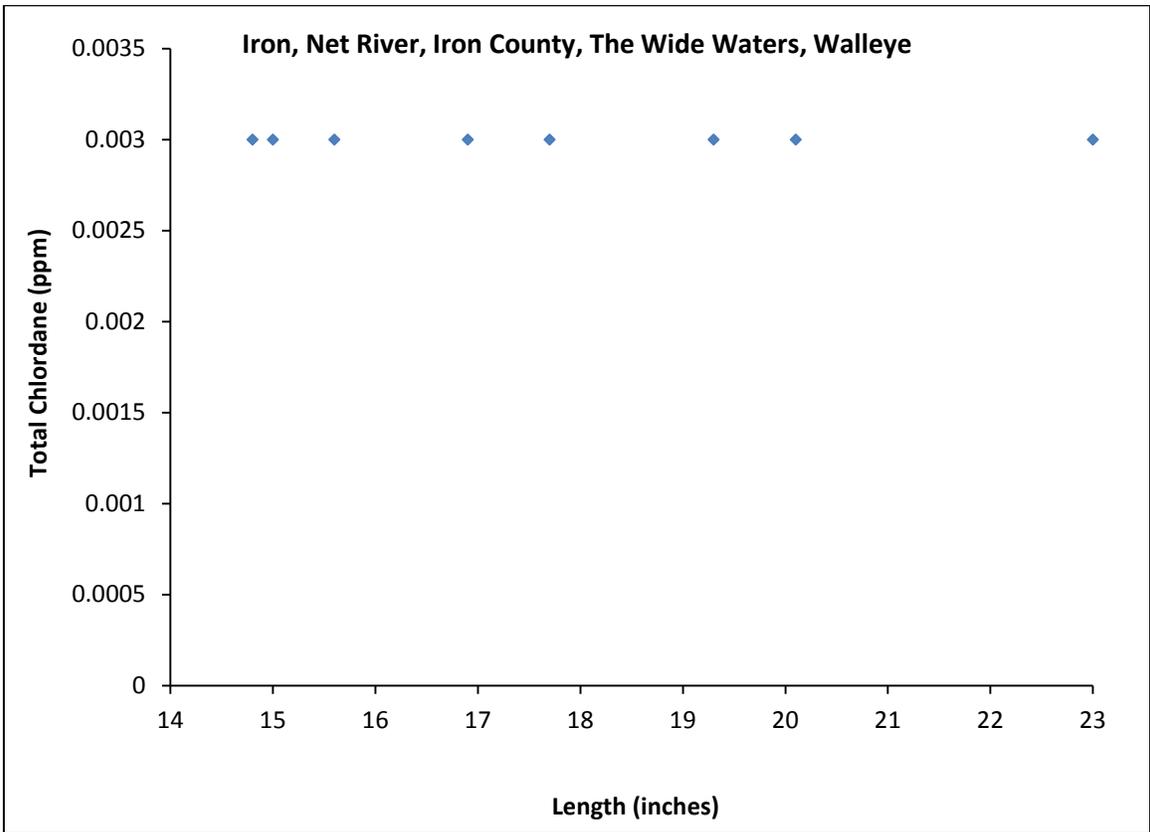
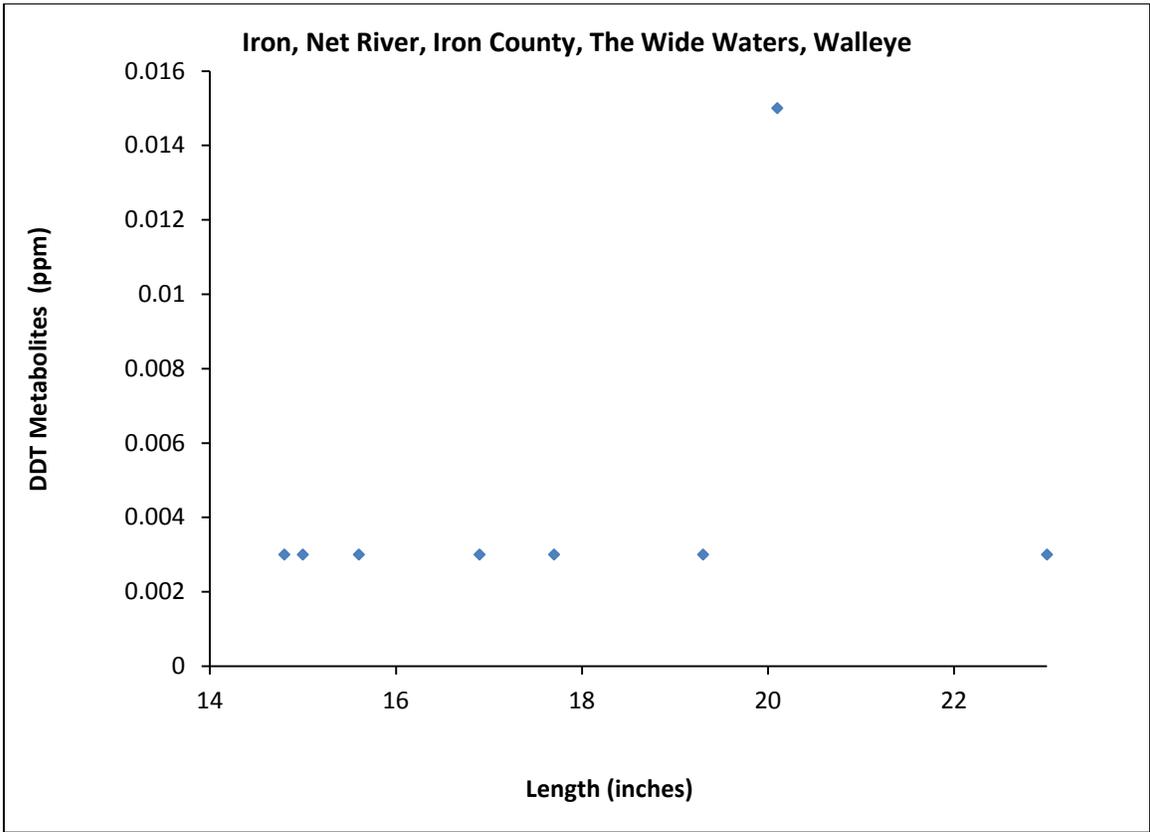
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1989	1989	8	14.8	15	14.8	23
Datasets available: 1989						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	8	0.03	0.02	0.05	0.04	4
DDT	8	0.005	0.003	0.02	0.01	16
Chlordane	8	0.003	0.003	0.003	0.003	--
Toxaphene	8	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	0.106	0.106				
DDT	0.106	0.106				
Chlordane	0.000	0.000				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Women and children should not eat more than one meal per month of Net River walleye.

Recommendation: No one should eat more than 1 meal per month of Net River walleye smaller than 20 inches or more than 6 meals per year of those fish larger than 20 inches due to mercury. The statewide length break was applied as the size range of the collected fish was limited. PCBs would cause an advisory.





Northern Pike

Ottawa Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	1986	5	21.9	24	23.8	27.6
Datasets available: 1986						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	3	0.37	0.3	0.4	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.836	0.792				

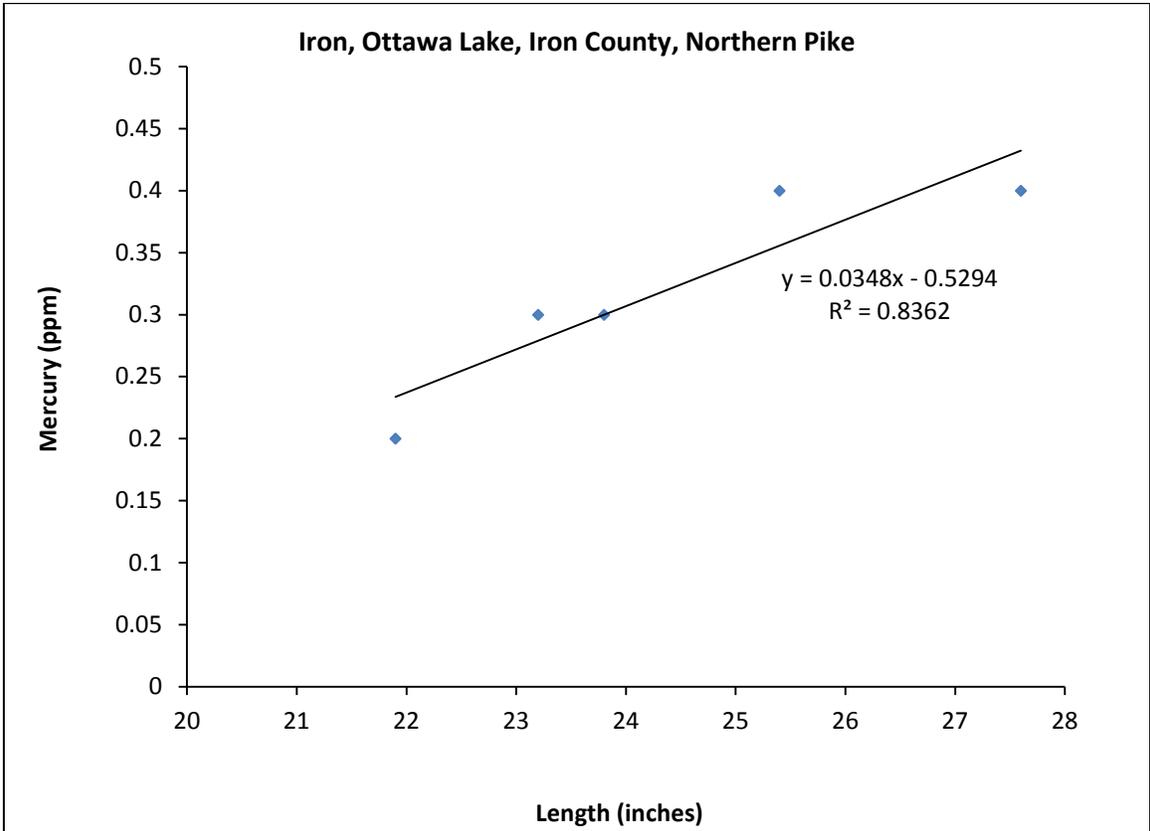
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Ottawa Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals of Ottawa Lake northern pike smaller than 30 inches or more than 1 meal per month of those fish larger than 30 inches due to mercury. Statewide length break applied as the size range was limited.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
22	0.24	4
24	0.31	2
26	0.38	2
28	0.45	2
30	0.51	2
32	0.58	1
34	0.65	1
36	0.72	1
<i>Shaded area denotes extrapolated estimates</i>		



Rock Bass

Ottawa Lake

Iron County

Hg Analysis:

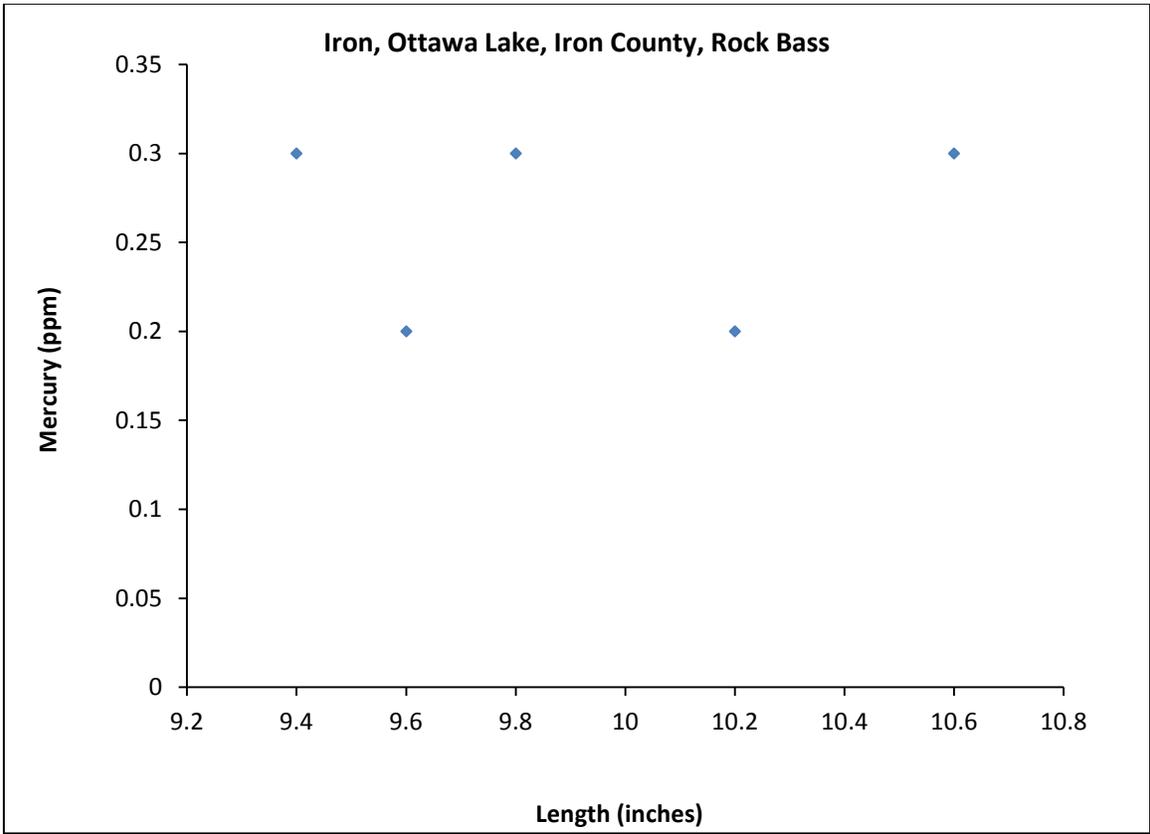
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	1986	5	9.4	na	9.4	10.6
Datasets available: 1986						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	5	0.26	0.2	0.3	0.33	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.001	0.001				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Ottawa Lake rock bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Ottawa Lake rock bass due to mercury.



Northern Pike

Paint Lake

Iron County

Hg Analysis:

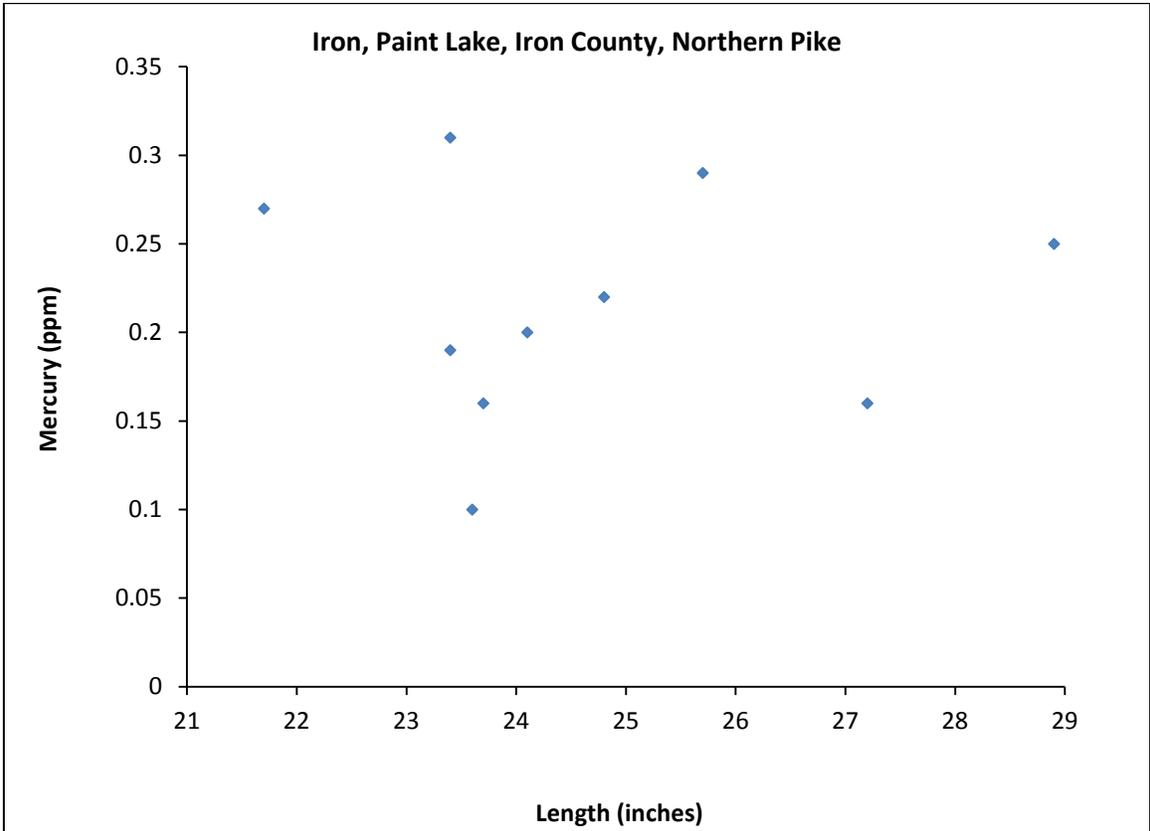
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2003	2003	10	21.7	24	23.6	28.9
Datasets available: 2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	7	0.20	0.1	0.29	0.26	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.000	0.003				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	0				
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: Women and children should not eat more than one meal per week of Paint Lake northern pike smaller than 30 inches and no more than one meal per month of northern pike larger than 30 inches due to mercury.

Recommendation: No one should eat more than 4 meals per month of Paint Lake northern pike smaller than 30 inches or more than 2 meals per month of those fish larger than 30 inches due to mercury. The statewide length break was applied as the size range of the fish was limited.



Muskellunge

**Paint River
Paint River Pond**

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of All Samples		
Earliest	Most Recent				Min	Max	
1984	1984	3	21.4	42	21.4	27.3	
Datasets available: 1984							
Chemical	Sample Size (All)	Mean		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL	Meal Category
Mercury	3	0.57		0.4	0.4	1.1	1
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury	0.814	0.871					

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		
Earliest	Most Recent				Min	Max	
--	--	--	--	--	--	--	
Datasets available: --							
Chemical	Sample Size (Legal)	Mean		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL	Meal Category
PCB	0	--		--	--	--	--
DDT	0	--		--	--	--	--
Chlordane	0	--		--	--	--	--
Toxaphene	0	--		--	--	--	--
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	--	--					
DDT	--	--					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							1

Existing Advisory: Paint River Pond, in the Paint River, muskellunge are covered under the statewide mercury advisory.

Recommendation: Statewide guidelines apply. Data are insufficient to calculate a waterbody-species specific guideline.

Rock Bass

**Paint River
Paint River Pond**

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
1984	1984	1	8.3	--	--	--		
Datasets available:		1984						
Chemical	Sample Size (Legal)	Mean		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL	Meal Category	
Mercury	--	--		--	--	--	--	
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	--	--						--

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	--	--	--	--	--		
Datasets available:		--						
Chemical	Sample Size (Legal)	Mean		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL	Meal Category	
PCB	0	--		--	--	--	--	
DDT	0	--		--	--	--	--	
Chlordane	0	--		--	--	--	--	
Toxaphene	0	--		--	--	--	--	
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
							Final meal category based on UCL:	--

Existing Advisory: Rock bass from Paint River Pond are covered by the statewide mercury advisory.

Recommendation: Statewide guidelines apply. Data are insufficient to calculate a waterbody-species specific guideline.

Walleye

**Paint River
Paint River Pond**

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
1984	1984	4	13.1	15	17.2	19.7		
Datasets available:		1984						
Chemical	Sample Size (All)	Mean	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL	Meal Category		
Mercury	4	0.83	0.7	1	1.06	1		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	0.073	0.072						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	--	--	--	--	--		
Datasets available:		--						
Chemical	Sample Size (Legal)	Mean	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL	Meal Category		
PCB	0	--	--	--	--	--		
DDT	0	--	--	--	--	--		
Chlordane	0	--	--	--	--	--		
Toxaphene	0	--	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
Final meal category based on UCL:						1		

Existing Advisory: Women and children should eat no more than one meal per month of 14 to 18 inch walleye and no one should eat walleye over 18 inches from the Michigamme River System.

Recommendation: Statewide guidelines apply. Data are insufficient to calculate a waterbody-species specific guideline.

Yellow Perch

**Paint River
Paint River Pond**

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
1984	1984	2	6.8	NA	6.8	7.2		
Datasets available: 1984								
Chemical	Sample Size (Legal)	Mean		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL	Meal Category	
Mercury	2	--		0.1	0.1	--	--	
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	--	--						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	--	--	--	--	--		
Datasets available:								
Chemical	Sample Size (Legal)	Mean		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL	Meal Category	
PCB	0	--		--	--	--	--	
DDT	0	--		--	--	--	--	
Chlordane	0	--		--	--	--	--	
Toxaphene	0	--		--	--	--	--	
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
Final meal category based on UCL:								

Existing Advisory: Paint River Pond, in the Paint River, yellow perch are covered under the statewide mercury advisory.

Recommendation: Statewide guidelines apply. Data are insufficient to calculate a waterbody-species specific guideline.

Northern Pike

Perch Lake

Iron County

Hg & Se Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	2006	16	16.5	24	23.6	31.6
Datasets available: 1988, 2006						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	9	0.45	0.28	0.92	0.60	1
Selenium	8	0.26	0.21	0.37	0.30	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.623	0.715				
Selenium	0.025	0.011				

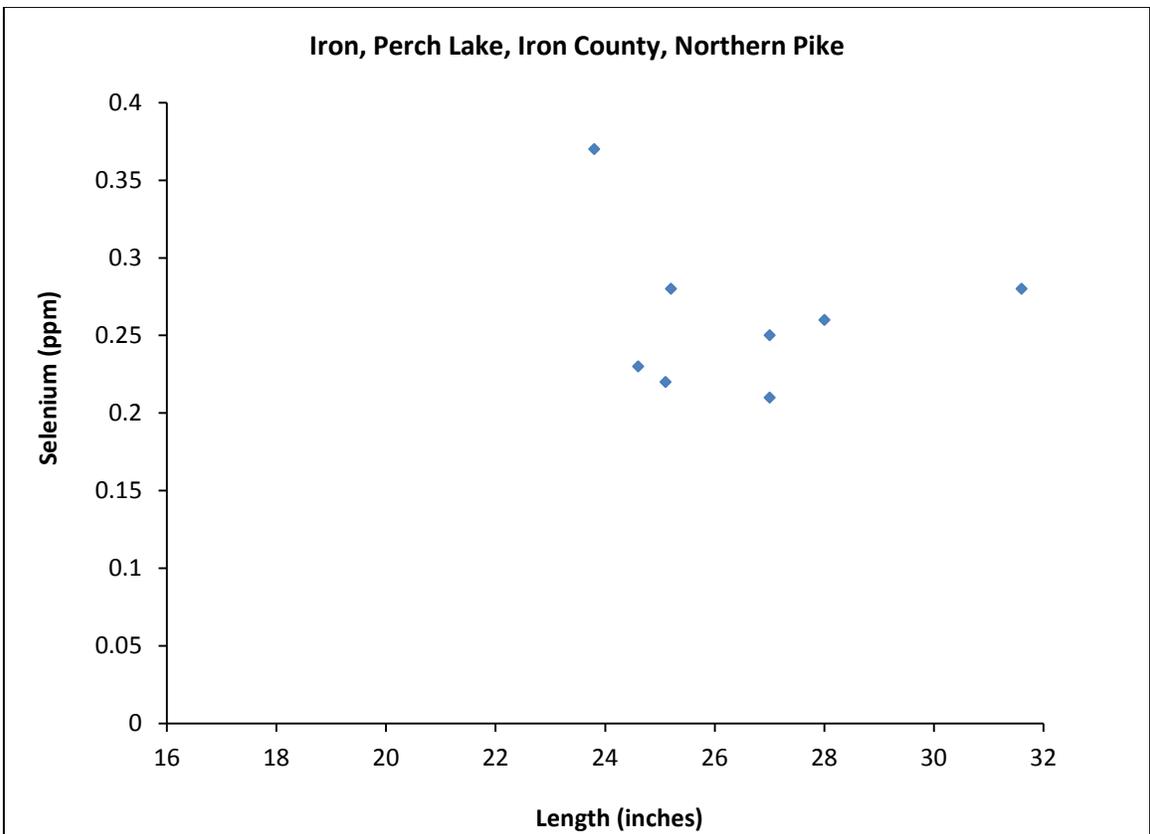
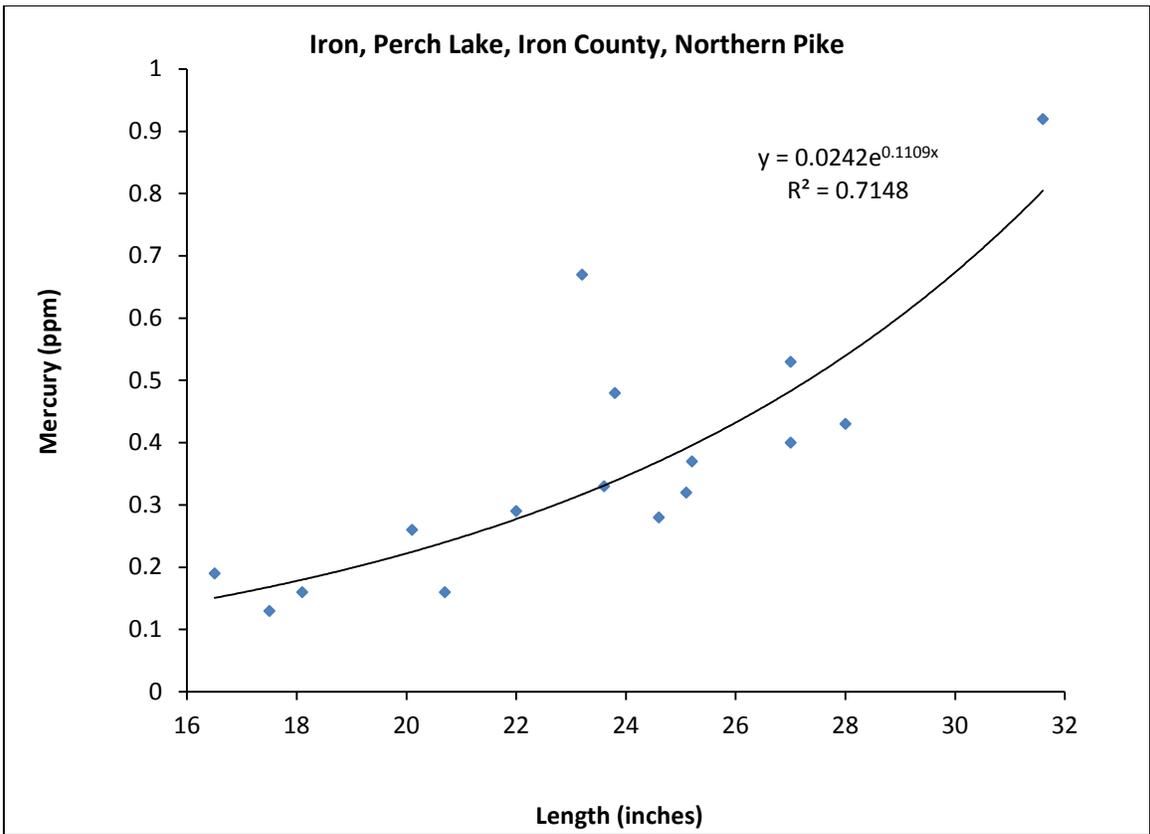
Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Perch Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Perch Lake northern pike smaller than 28 inches or more than 1 meal per month of those fish larger than 28 inches due to mercury.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
22	0.28	2
24	0.35	2
26	0.43	2
28	0.54	1
30	0.67	1
32	0.84	1
34	1.05	1
36	1.31	0.5
<i>Shaded area denotes extrapolated estimates</i>		



Walleye

Perch Lake

Iron County

Hg & Se Analysis:

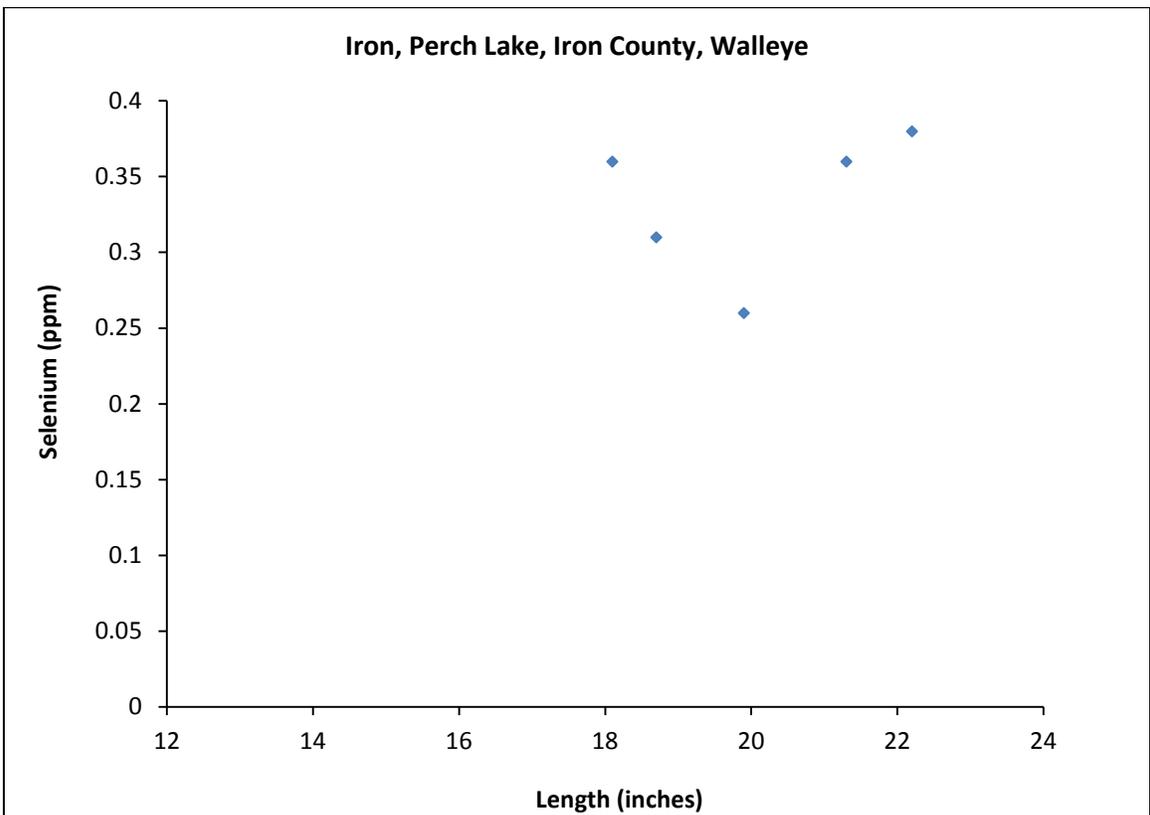
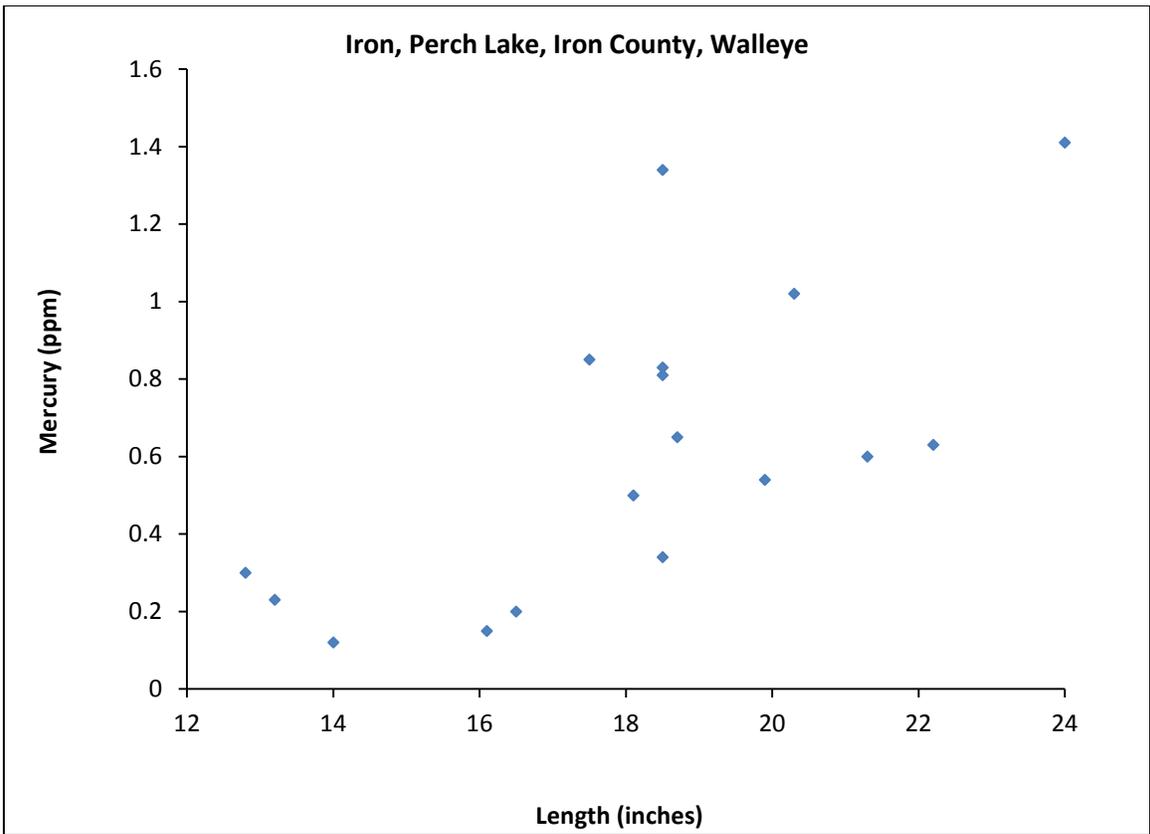
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	2006	17	12.8	15	16.1	24
Datasets available: 1988, 2006						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	14	0.71	0.15	1.41	0.92	1
Selenium	5	0.334	0.260	0.380	0.390	16
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.462	0.525				
Selenium	0.137	0.116				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						1

Existing Advisory: Perch Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Perch Lake walleye less than 20 inches or 6 meals per year of those greater than 20 inches due to mercury. Statewide length break applied as the sample size of fish over 20 inches is limited.



Northern Pike

Runkle Lake

Iron County

Hg Analysis:

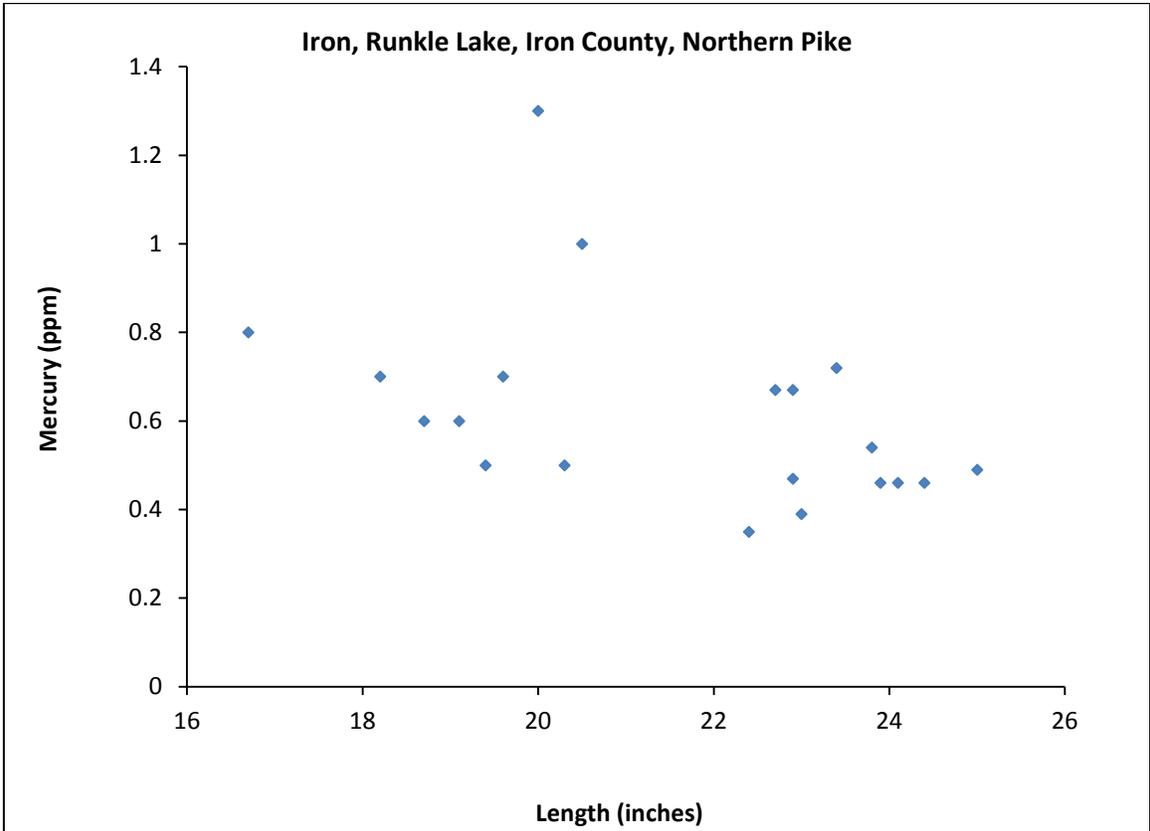
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1985	2003	20	16.7	na*	16.7	25
Datasets available: 1985, 2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	20	0.62	0.35	1.30	0.72	1
Chemical	Linear Regression	Exponential Regression	*There is no minimum size limit on Runkle Lake northern pike.			
	R ²	R ²				
Mercury	0.199	0.241				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2003	2003	11	22.4	na*	22.4	25
Datasets available: 2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	11	ND	--	--	--	--
DDT	11	0.001	0.001	0.002	0.002	16
Chlordane	11	ND	--	--	--	--
Toxaphene	11	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression	*There is no minimum size limit on Runkle Lake (Iron County) northern pike.			
	R ²	R ²				
PCB	--	--				
DDT						
Chlordane						
Toxaphene						
Final meal category based on UCL:						1

Existing Advisory: Runkle Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 1 meal per month of Runkle Lake northern pike smaller than 30 inches or more than 6 meals per year of those fish larger than 30 inches due to mercury. The statewide length break was applied as the size range of the fish was limited.



Lake Trout

Smokey Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
1986	1986	1	31.9	8	31.9	31.9		
Datasets available: 1986								
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
Mercury	1	1.6	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	--	--						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	--	--	--	--	--		
Datasets available: --								
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
PCB	0	--	--	--	--	--		
DDT	0	--	--	--	--	--		
Chlordane	0	--	--	--	--	--		
Toxaphene	0	--	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
						Final meal category based on UCL:		--

Existing Advisory: Smokey Lake lake trout are not covered by an advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method.

Rock Bass

Smokey Lake

Iron County

Hg Analysis:

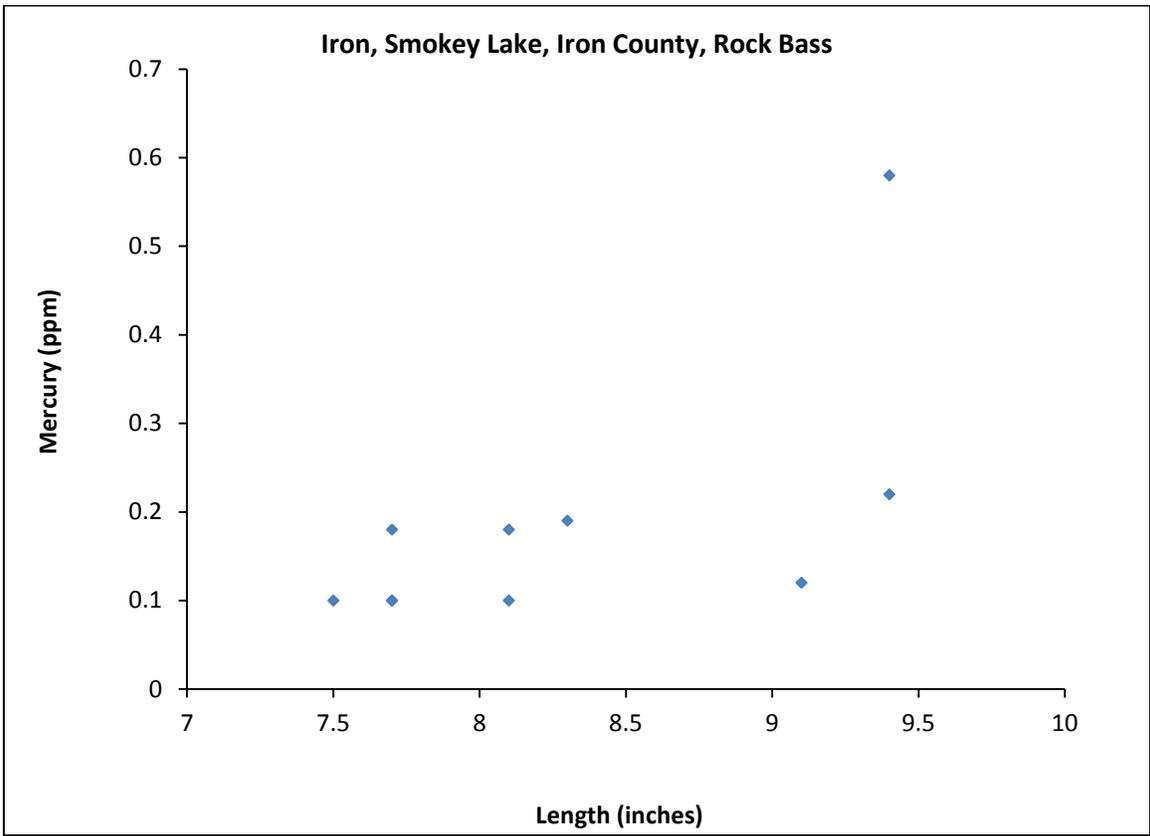
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1986	1986	10	7.5	na	7.5	9.4
Datasets available: 1986						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.19	0.1	0.58	0.29	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.405	0.454				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Smokey Lake rock bass are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Smokey Lake rock bass due to mercury.



Smallmouth Bass

Smokey Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of All Samples	
Earliest	Most Recent				Min	Max
1986	1986	2	12.8	14	12.8	12.8
Datasets available: 1986						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	2	0.46	0.46	0.47	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Smokey Lake smallmouth bass are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guidelines apply: No one should eat more than 2 meals per month of largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches.

White Sucker

Smokey Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
1986	1986	1	20.1	na	20.1	20.1		
Datasets available: 1986								
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
Mercury	1	0.17	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	--	--						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	--	--	--	--	--		
Datasets available: --								
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category		
PCB	0	--	--	--	--	--		
DDT	0	--	--	--	--	--		
Chlordane	0	--	--	--	--	--		
Toxaphene	0	--	--	--	--	--		
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
						Final meal category based on UCL:		--

Existing Advisory: Smokey Lake sucker are not covered by an advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guidelines apply: No one should eat more than 8 meals per month of sucker from inland waters.

Walleye

Stager Lake

Iron County

Hg Analysis:

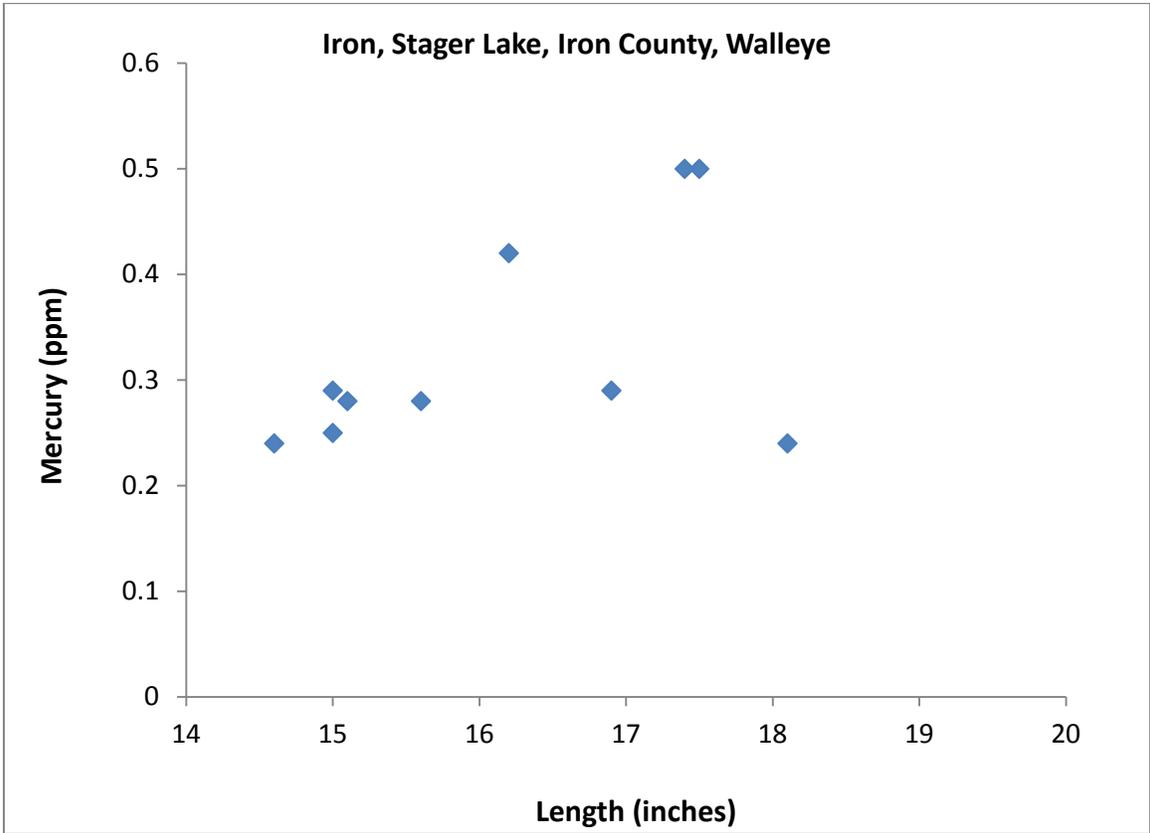
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2012	2012	10	14.6	15	14.6	18.1
Datasets available: 2012						
Chemical	Sample Size (Legal)	Mean Conc. (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.33	0.24	0.50	0.40	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.261	0.238				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean Conc. (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	--	--	--	--	--	--
DDT	--	--	--	--	--	--
Chlordane	--	--	--	--	--	--
Toxaphene	--	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Stager Lake walleye are covered by the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of walleye smaller than 20 inches or more than 1 meal per month of walleye larger than 20 inches due to mercury. The statewide length break was applied as the size range of fish was limited.



**Largemouth and
Smallmouth Bass**

Stanley Lake

Iron County

Hg Analysis:

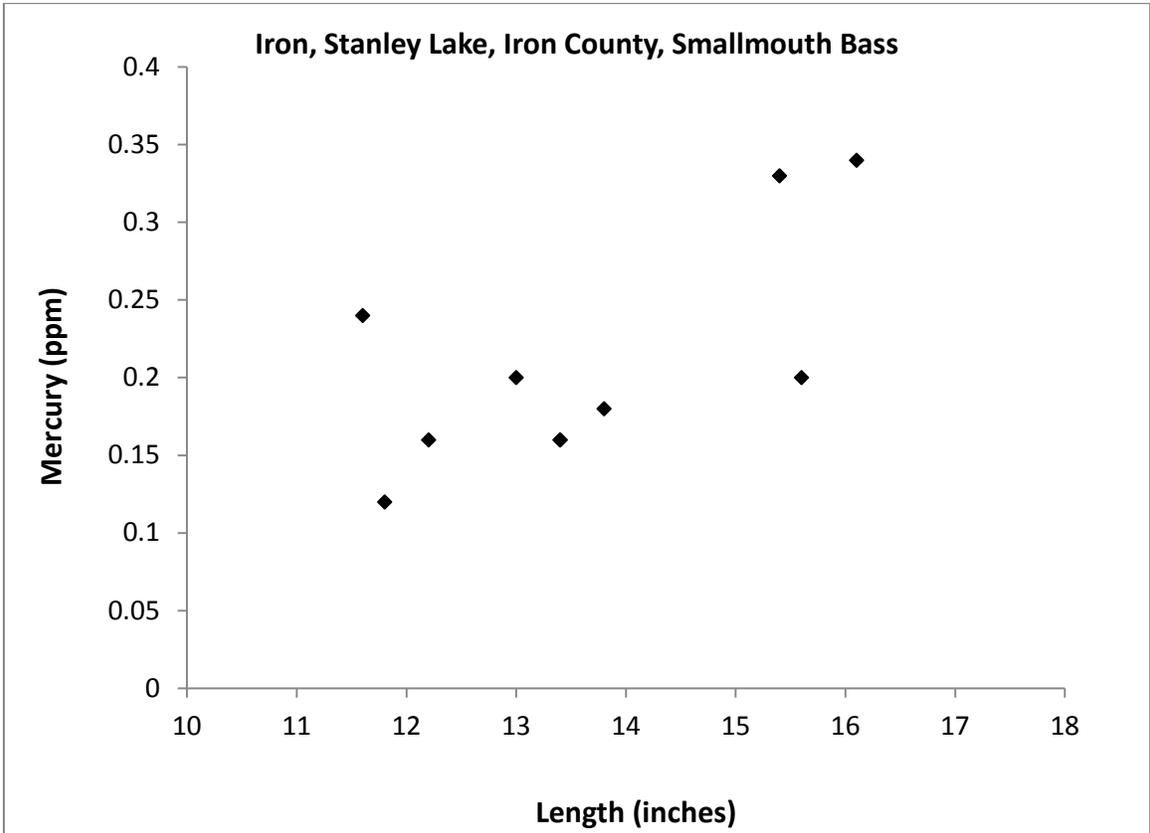
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
1990	1990	10	11.6	14	13.8	16.1	
Datasets available: 1990							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
Mercury	4	0.26	0.18	0.34	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
Mercury	0.449	0.439					

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples		Meal Category
Earliest	Most Recent				Min	Max	
--	--	0					
Datasets available: --							
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
PCB	0	--	--	--	--	--	
DDT	0	--	--	--	--	--	
Chlordane	0	--	--	--	--	--	
Toxaphene	0	--	--	--	--	--	
Chemical	Linear Regression	Exponential Regression					
	R ²	R ²					
PCB	--	--					
DDT	--	--					
Chlordane	--	--					
Toxaphene	--	--					
Final meal category based on UCL:							--

Existing Advisory: Stanley Lake largemouth bass and smallmouth bass are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guideline apply: No one should eat more than 2 meals per month of largemouth or smallmouth bass smaller than 18 inches or more than 1 meal per month of those fish larger than 18 inches.



Walleye

Stanley Lake

Iron County

Hg Analysis:

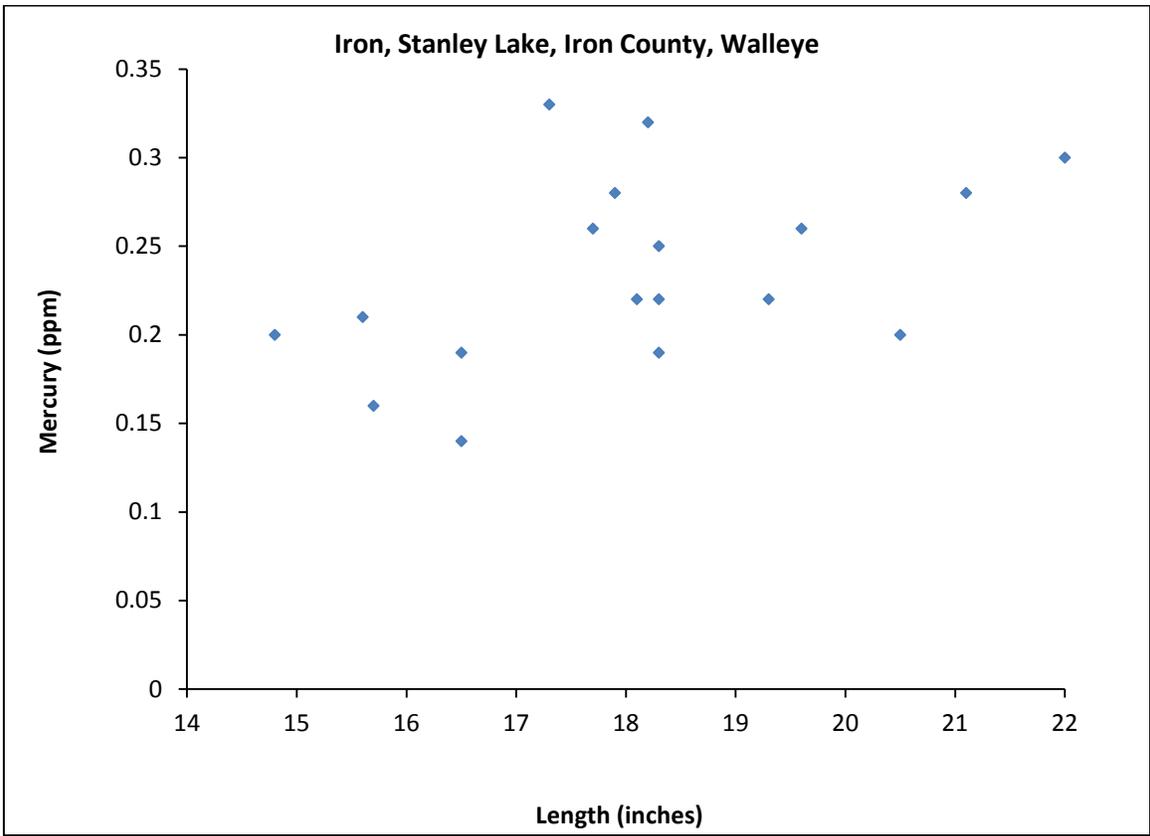
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1990	2001	18	14.8	15	14.8	22
Datasets available: 1990, 2001						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	18	0.24	0.14	0.33	0.26	4
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.216	0.236				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						4

Existing Advisory: There are no eating restrictions for Stanley Lake walleye.

Recommendation: No one should eat more than 4 meals per month of Stanley Lake walleye smaller than 20 inches or more than 2 meals per month of those fish larger than 20 inches due to mercury. The statewide length break was applied as the size range of the fish was limited.



Northern Pike

Sunset Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of All Samples	
Earliest	Most Recent				Min	Max
1988	1988	2	22	24	22	23
Datasets available: 1988						
Chemical	Sample Size (All)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	2	--	0.25	0.31	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	--	--				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	2	22	24	22	23
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	2	ND	--	--	--	--
DDT	2	0.02	0.02	0.02	--	--
Chlordane	2	ND	--	--	--	--
Toxaphene	2	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						--

Existing Advisory: Sunset Lake northern pike are covered under the statewide mercury advisory.

Recommendation: A dataset of less than five data points for a given chemical, species and waterbody is considered insufficient for evaluation using the standard evaluation method. Statewide guidelines apply: No one should eat more than 1 meal per month of northern pike larger than 30 inches or more than 2 meals per month of northern pike smaller than 30 inches in length.

Walleye

Sunset Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	10	14.8	15	14.8	22
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	10	0.41	0.22	0.65	0.51	2
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.806	0.806				

Organics Analysis:

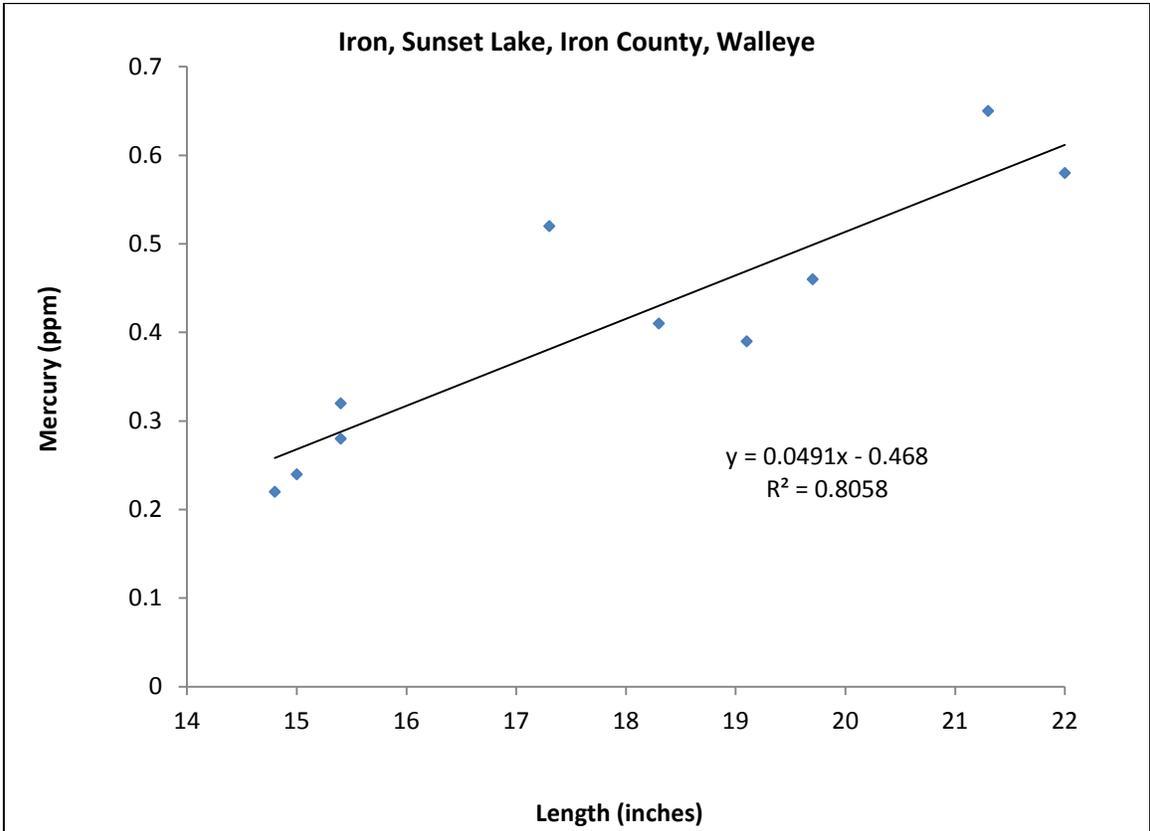
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
1988	1988	10	14.8	15	14.8	22
Datasets available: 1988						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	10	ND	--	--	--	--
DDT	10	0.03	0.011	0.07	0.04	12
Chlordane	10	ND	--	--	--	--
Toxaphene	10	ND	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						2

Existing Advisory: Sunset Lake walleye are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 2 meals per month of Sunset Lake walleye smaller than 20 inches or more than 1 meal per month of those fish larger than 20 inches due to mercury.

Note: DDT as a cause of an advisory is discounted due to the age of the data.

Length (Inches)	Hg Regression Equation Estimate (ppm)	Meal Category
14	0.22	4
15	0.27	4
16	0.32	2
17	0.37	2
18	0.42	2
19	0.46	2
20	0.51	2
22	0.61	1
24	0.71	1
<i>Shaded area denotes extrapolated estimates</i>		



Northern Pike

Tepee Lake

Iron County

Hg Analysis:

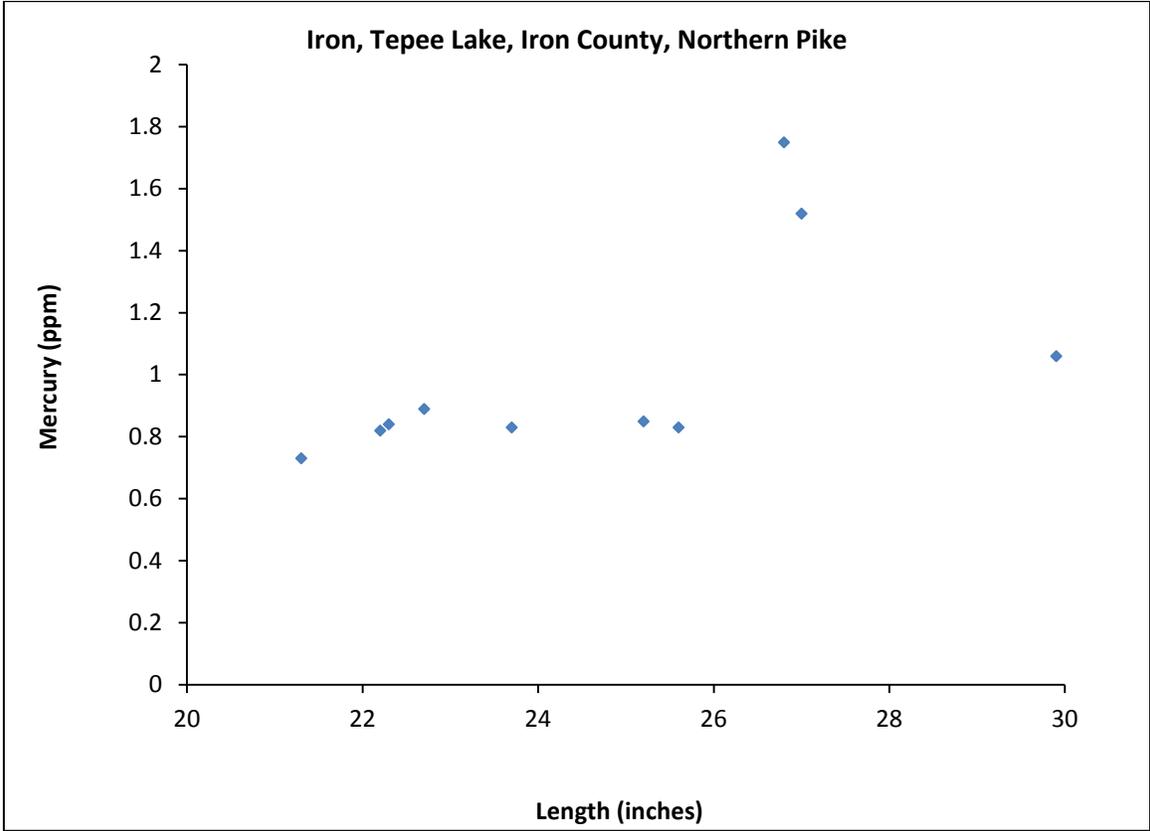
Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
2003	2003	10	21.3	24	23.7	29.9
Datasets available: 2003						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
Mercury	6	1.14	0.83	1.75	1.56	0.5
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
Mercury	0.356	0.417				

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples	
Earliest	Most Recent				Min	Max
--	--	--	--	--	--	--
Datasets available: --						
Chemical	Sample Size (Legal)	Mean (ppm)	Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category
PCB	0	--	--	--	--	--
DDT	0	--	--	--	--	--
Chlordane	0	--	--	--	--	--
Toxaphene	0	--	--	--	--	--
Chemical	Linear Regression	Exponential Regression				
	R ²	R ²				
PCB	--	--				
DDT	--	--				
Chlordane	--	--				
Toxaphene	--	--				
Final meal category based on UCL:						0.5

Existing Advisory: Tepee Lake northern pike are covered under the statewide mercury advisory.

Recommendation: No one should eat more than 6 meals per year of Tepee Lake northern pike smaller than 30 inches, and no one should eat any of those fish larger than 30 inches due to mercury. The statewide length break was applied as the size range of the fish were limited.



Walleye

Winslow Lake

Iron County

Hg Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
2013	2013	10	14.8	15	14.8	22.1		
Datasets available: 2013								
Chemical	Sample Size (Legal)	Mean		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
Mercury	10	0.50		0.27	0.80	0.62	1	
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
Mercury	0.406	0.409						

Organics Analysis:

Range of Years Used		N (All)	Overall Min Length	Legal Min (Inches)	Range of Legal Sized Samples			
Earliest	Most Recent				Min	Max		
--	--	0	--	--	--	--		
Datasets available: --								
Chemical	Sample Size (Legal)	Mean		Min. Conc. (ppm)	Max Conc. (ppm)	95%UCL (ppm)	Meal Category	
PCB	--	--		--	--	--	--	
DDT	--	--		--	--	--	--	
Chlordane	--	--		--	--	--	--	
Toxaphene	--	--		--	--	--	--	
TEQ	--	--		--	--	--	--	
Chemical	Linear Regression	Exponential Regression						
	R ²	R ²						
PCB	--	--						
DDT	--	--						
Chlordane	--	--						
Toxaphene	--	--						
TEQ	--	--						
							Final meal category based on UCL: 1	

Existing Advisory: Winslow Lake walleye are covered by the statewide advisory: No one should eat more than 2 meals per month of walleye smaller than 20 inches or more than 1 meal per month of those fish larger than 20 inches due to mercury.

Recommendation: No one should eat more than 1 meal per month of Winslow Lake walleye less than 20 inches and 6 meals per year of those fish larger than 20 inches due to mercury. The statewide length break was applied as the size range of the fish were limited.

