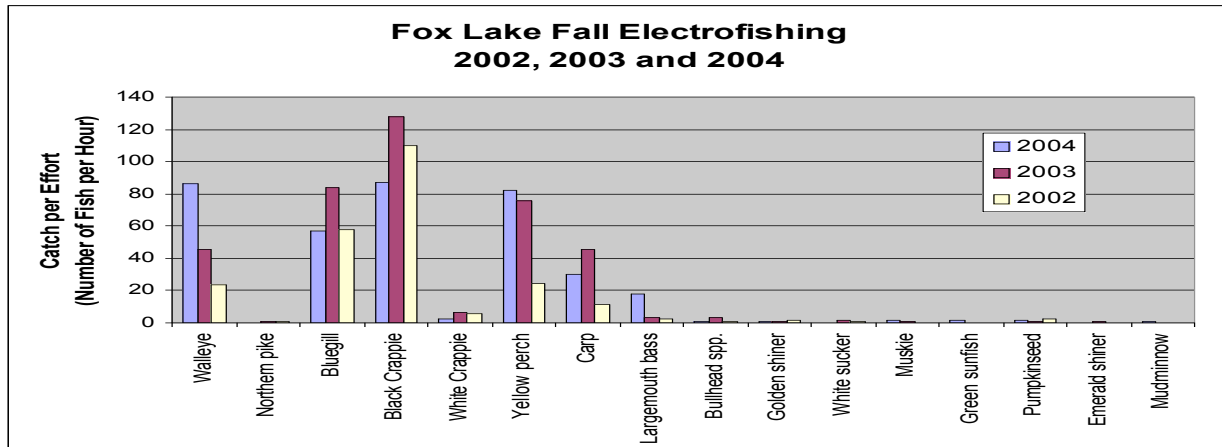


Fox Lake Fall Electrofishing Summary Report – 2004

Fall Electrofishing - Defined

Fall electrofishing was conducted on Fox Lake in Dodge County on October 14, 2005. Fall electrofishing is conducted using a large boomshocker boat during the fall allowing for the collection of young-of-the-year (YOY) and adult bass and walleye that are often under sampled by other gear types. In order to standardize fisheries data, total effort, in the form of time spent shocking and/or miles of shoreline shocked is recorded. For this survey, the total effort expended was 2.08 hours and the following stations were sampled: 1.) Inlet of Cambria Creek south (25 minutes), 2.) North side of Chief Kuno Trail (20 minutes), 3.) South side of Chief Kuno Trail (20 minutes), 4.) South shore of The Jug to outlet (20 minutes), 5.) Elmwood Island (20 minutes), 6.) Green Bell tavern to Maple Point (20 minutes). Lengths and scale samples were taken from a subset of fish and all fish were returned to the lake. This report highlights the findings of 2004 fall electrofishing with comparisons between 2003 fall electrofishing where applicable. Compiled by: Laura Stremick-Thompson, DNR Fisheries Biologist, N7725 Hwy 28, Horicon WI 53032. Phone (920) 387-7876 or Laura.Stremick-Thompson@dnr.state.wi.us.



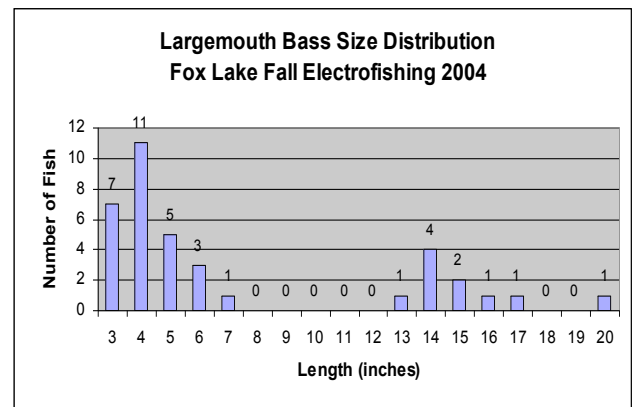
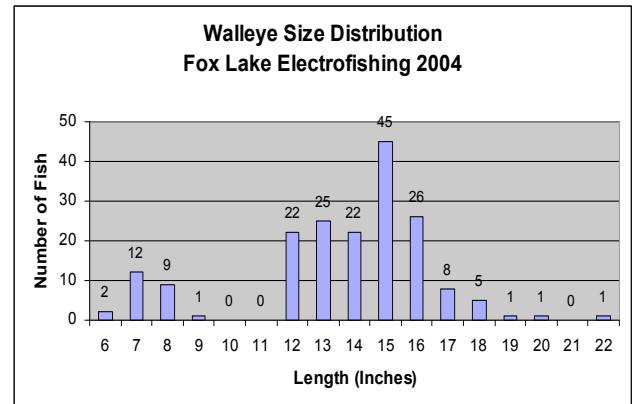
Gamefish Summary

Walleye

Abundance: 2004 Fall Electrofishing Catch=180 total fish, or 86.5 fish/hour.
2003 Fall Electrofishing Catch = 95 total fish, or 46 fish/hour.

Size Structure: 2004 Length range = 6.5-22.8 inches.
2003 Length range = 4.0-20.0 inches.
2004 Average Length = 14.1 inches.
2003 Average Length = 9.2 inches.

Walleye catch rates for 2004 fall electrofishing were 86.5/hour, up from 46/hour in 2003 and 24/hour in 2002. The number of young-of-the-year (YOY) walleye under 10 inches in length was 11.5/hour in 2004, 25/hour in 2003, 13.8/hour in 2002 and 8.2/hour in 2000 fall electrofishing. In 2004, DNR stocked 130,000 small fingerling walleye (1.4-inch ave. length) into Fox Lake.



Largemouth bass

Abundance: 2004 Fall Electrofishing Catch = 37 fish total, or 17.8 fish/hour.
2003 Fall Electrofishing Catch = 6 fish total, or 2.9 fish/hour.

Size Structure: 2004 Length range = 3.1-20.4 inches.
2003 Length range = 3.5-16.5 inches.
2004 Average length = 7.7 inches.
2003 Average length = 11.2 inches.

Largemouth bass catch rates for 2004 fall electrofishing were 17.8/hour, up from 2.9/hour in 2003 and 2.2/hour in 2002.

Northern pike

Abundance: 2004 Fall Electrofishing Catch = 0 fish total
2003 Fall Electrofishing Catch = 1 fish total or .48 fish/hour.

Size Structure: 2004 Length Range = N/A
2003 Average Length = 27 inches.

The low number of northern pike sampled during this survey is typical of the electrofishing gear used, and is not a reflection of low population levels. The best northern pike population data is obtained using fyke nets set during the spring spawning season.

Muskie

Abundance: 2004 Fall Electrofishing Catch = 4 fish total or 1.9/hour.

2003 Fall Electrofishing Catch = 2 fish total or .96/hour.

Size Structure: 2004 Length Range = 25.0-31.2 inches.

2003 Length Range = 22.0-22.2 inches.

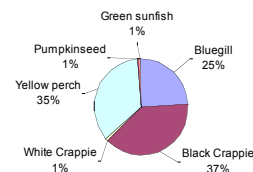
2004 Average Length = 28.1 inches.

2003 Average Length = 22.1 inches.

Panfish Summary

The panfish community in Fox Lake is dominated by a large black crappie population, as well as smaller populations of white crappie, bluegill, and yellow perch. Other panfish species present in the lake include pumpkinseed and green sunfish.

**Panfish Relative Abundance
Fox Lake Electrofishing 2004
(481 total panfish sampled)**



Bluegill

Abundance: 2004 Fall Electrofishing Catch = 118 fish total, or 56.7/hr.

2003 Fall Electrofishing Catch = 175 fish total, 84.1/hour.

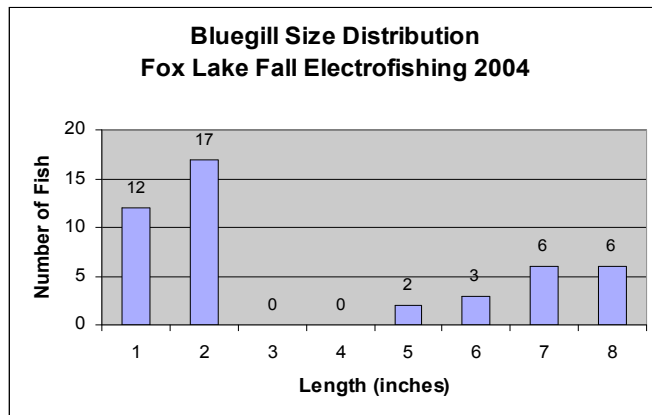
Size Structure: 2004 Length range = 1.2-8.9 inches.

2003 Length range = 1.6-9.3 inches.

2004 Average length = 4.0 inches.

2003 Average length = 4.7 inches.

Length measurements were taken on 46 of the total 118 bluegill sampled, of which 33% were greater than 6 inches in length.



Yellow perch

Abundance: 2004 Fall Electrofishing Catch = 171 fish total, 82.2/hour

2003 Fall Electrofishing Catch = 157 fish total, 75.5/hour.

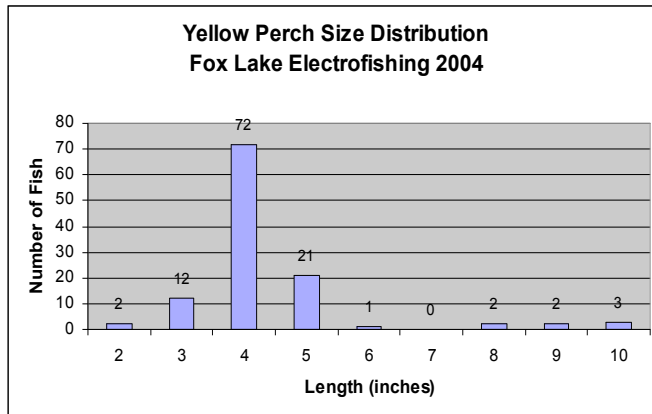
Size Structure: 2004 Length range = 2.0-10.9 inches.

2003 Length range = 3.3-8.1 inches.

2004 Average length = 4.9 inches

2003 Average length = 4.7 inches.

Length measurements were taken on 115 of the total 171 yellow perch sampled. The majority of the fish measured were 4 inches (63%), and 5 inches (18%) in length.



Black crappie

Abundance: 2004 Fall Electrofishing Catch = 181 fish total, 87/hour.

2003 Fall Electrofishing Catch = 266 fish total, 127.9/hour.

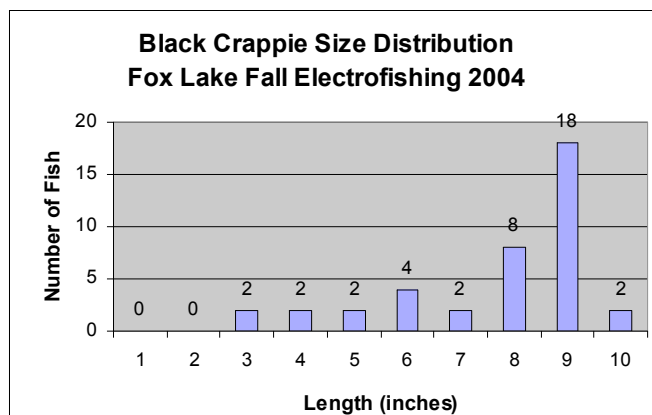
Size Structure: 2004 Length range = 2.0-11.5 inches.

2003 Length range = 2.2-9.6 inches.

2004 Average length = 7.3 inches.

2003 Average length = 6.8 inches.

Length measurements were taken on 159 of the total 181 black crappie sampled. Fifty percent of the fish measured were 9 to 10 inches in length.



White crappie

Abundance: 2004 Fall Electrofishing Catch 5 fish total, 2.4/hour.

2003 Fall Electrofishing Catch 14 fish total, 6.7/hour.

Size Structure: 2004 Length range = 4.7-10.5 inches.

2003 Length range = 2.7-9.8 inches.

2004 Average Length = 9.0 inches.

2003 Average Length = 6.3 inches.

Forage Species

Other species collected during 2004 fall electrofishing included golden shiner, mudminnow, common carp, and yellow bullhead. Yellow bullhead catch rates were 1.4/hour and ranged in length from 10.7-11.1 inches. Adult carp catch rates were 29.8/hour, down from 45.2/hour in 2003.