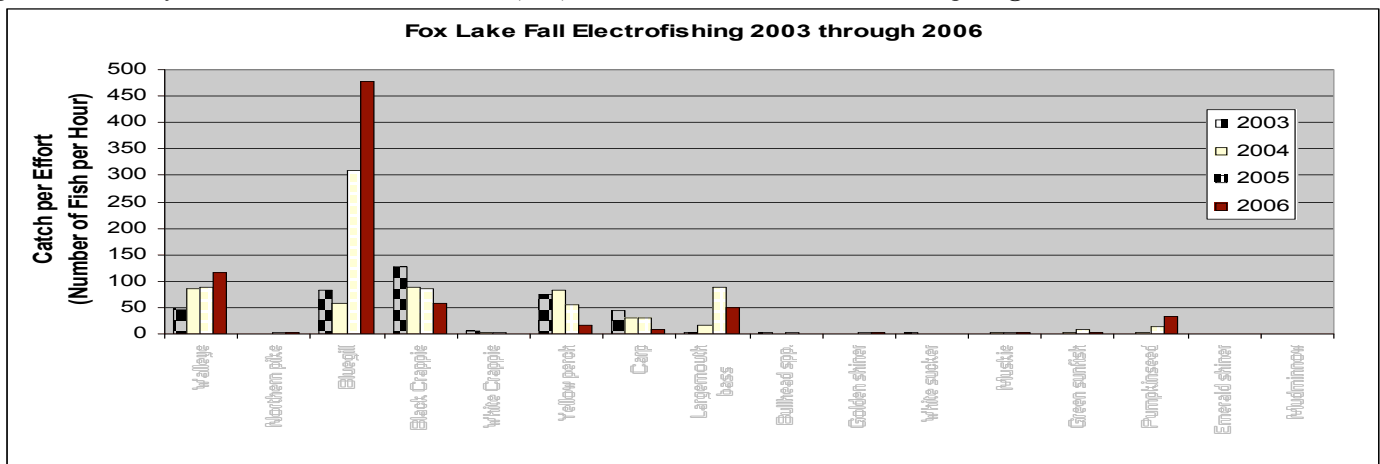


Fox Lake Fall Electrofishing Summary Report – 2006

Fall Electrofishing - Defined

Fall electrofishing was conducted on Fox Lake in Dodge County on October 11 and 18, 2006. Fall electrofishing is conducted using a large boomshocker boat 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). Length measurements were taken from a subset of fish and all fish were returned to the lake. This report highlights the findings of 2006 fall electrofishing with comparisons between 2005 and previous 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.



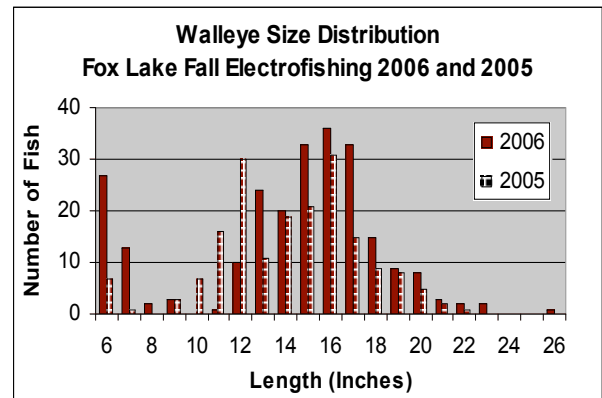
Gamefish Summary

Walleye

Abundance: 2006 Fall Electrofishing Catch = 242 fish total, or 116.3/hour.
2005 Fall Electrofishing Catch = 186 fish total, or 89.2/hour.

Size Structure: 2006 Length range = 6.2-26.3 inches.
2005 Length range = 6.0-22.8 inches.
2006 Average Length = 14.6 inches.
2005 Average Length = 14.6 inches.

Walleye catch rates for 2006 fall electrofishing were 116.3/hr, compared to 89.2/hr in 2005. The number of young-of-the-year (YOY) walleye under 10 inches was 21.6/hr in 2006 and 5.3/hr in 2005 fall electrofishing. In 2006, DNR stocked Fox Lake with 91,875 small fingerling walleye (2-inch average length).

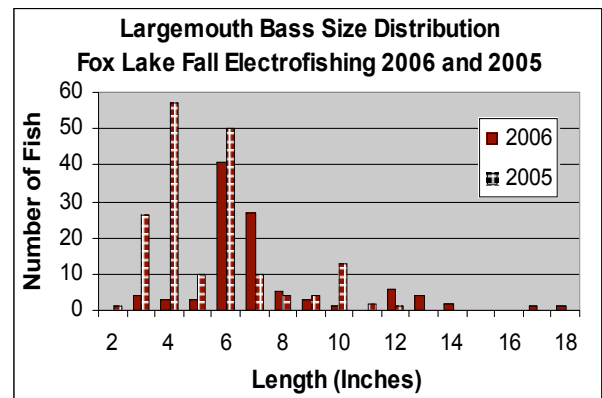


Largemouth bass

Abundance: 2006 Fall Electrofishing Catch = 101 fish total, or 48.6/hour.
2005 Fall Electrofishing Catch = 182 fish total, or 87.4/hour.

Size Structure: 2006 Length range = 3.4-18.5 inches.
2005 Length range = 3.0-18.0 inches.
2006 Average length = 7.7 inches.
2005 Average length = 6.9 inches.

Largemouth bass catch rates for 2006 fall electrofishing were 48.6/hour, down from 87.4/hour in 2005. The majority of fish measured (40%) were between 6 and 7 inches.



Northern pike

Abundance: 2006 Fall Electrofishing Catch = 6 fish total or 2.9 fish/hour.
2005 Fall Electrofishing Catch = 8 fish total or 3.8 fish/hour.

Size Structure: 2006 Length Range = 12.9-28.6 inches.
2005 Length Range = 13.0-30.1 inches.
2006 Average Length = 21.2 inches
2005 Average Length = 20.8 inches.

The low number of northern pike sampled is typical for the electrofishing gear used, as northern pike population data is best obtained using fyke nets set during spring spawning. In 2006, DNR switched to stocking Fox Lake with 50,000 small fingerling northern pike (2-3 inch average length) as opposed to fry (.5 inch average length).

Muskie

- Abundance:** 2006 Fall Electrofishing Catch = 4 fish total or 1.9/hour.
2005 Fall Electrofishing Catch = 4 fish total or 1.9/hour.
- Size Structure:** 2006 Length Range = 34.9-37.1 inches.
2005 Length Range = 28.0-35.3 inches.
2006 Average Length = 35.8 inches.
2005 Average Length = 32.2 inches.

DNR has not stocked muskies into Fox Lake since 2001.

Panfish Summary

The panfish community in Fox Lake is composed primarily of black crappie and bluegill, as well as smaller populations of white crappie, bluegill, and yellow perch. Other panfish species present include pumpkinseed and green sunfish.

Bluegill

- Abundance:** 2006 Fall Electrofishing Catch = 993 fish total, 477/hour
2005 Fall Electrofishing Catch = 643 fish total, 309/hour.
- Size Structure:** 2006 Length range = 1.4-7.9 inches.
2005 Length range = 1.2-9.5 inches.
2006 Average length = 4.8 inches.
2005 Average length = 4.9 inches.

Length measurements were taken on 388 of the total 993 bluegill sampled, of which 22% were greater than 6 inches in length. The majority of bluegill measured (41%) were between 4 and 5 inches in length.

Yellow perch

- Abundance:** 2006 Fall Electrofishing Catch = 35 fish total, 16.8/hour.
2005 Fall Electrofishing Catch = 116 fish total, 55.7/hour.
- Size Structure:** 2006 Length range = 2.5-8.9 inches.
2005 Length range = 5.5-10.5 inches.
2006 Average length = 5.9 inches.
2005 Average length = 7.1 inches

Length measurements were taken on all 35 yellow perch sampled. The majority (37%) of the fish measured were between 8 and 9 inches in length.

Black crappie

- Abundance:** 2006 Fall Electrofishing Catch = 118 fish total, 56.7/hour.
2005 Fall Electrofishing Catch = 178 fish total, 85.4/hour.
- Size Structure:** 2006 Length range = 2.7-10.8 inches.
2005 Length range = 2.5-12.0 inches.
2006 Average length = 7.0 inches.
2005 Average length = 5.8 inches.

Length measurements were taken on all 118 black crappie sampled. The majority of the fish sampled (31%) were between 6 and 7 inches in length.

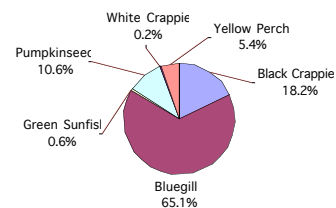
White crappie

- Abundance:** 2006 Fall Electrofishing Catch 1 fish total, 0.5/hour.
2005 Fall Electrofishing Catch 3 fish total, 1.4/hour.
- Size Structure:** 2006 Length range = 10.5 inches.
2005 Length range = 4.6-11.2 inches.
2006 Average Length = 10.5 inches.
2005 Average Length = 6.8 inches.

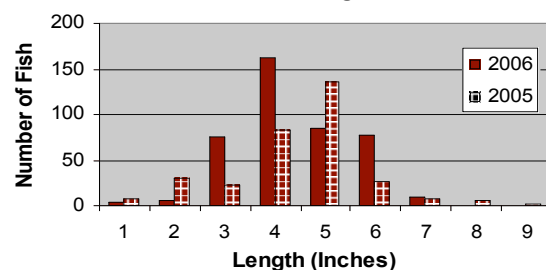
Other Species

Other species sampled during 2006 fall electrofishing included green sunfish, central mudminnow, golden shiner, common carp, and yellow, brown and black bullhead. 2006 bullhead catch rates were 6.3/hr with lengths between 5.3-13.6 inches. 2006 carp catch rates were 9.6/hr, compared to 30.7/hr in 2005.

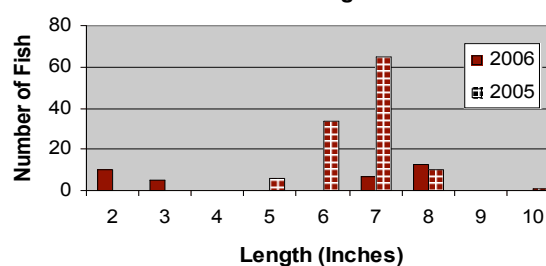
**Panfish Relative Abundance
Fox Lake Fall Electrofishing 2006**



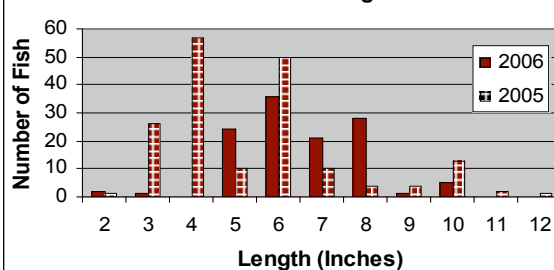
**Bluegill Size Distribution
Fox Lake Fall Electrofishing 2006 and 2005**



**Yellow Perch Size Distribution
Fox Lake Fall Electrofishing 2006 and 2005**



**Black Crappie Size Distribution
Fox Lake Fall Electrofishing 2006 and 2005**



**Non-Game Relative Abundance
Fox Lake Fall Electrofishing 2006**

