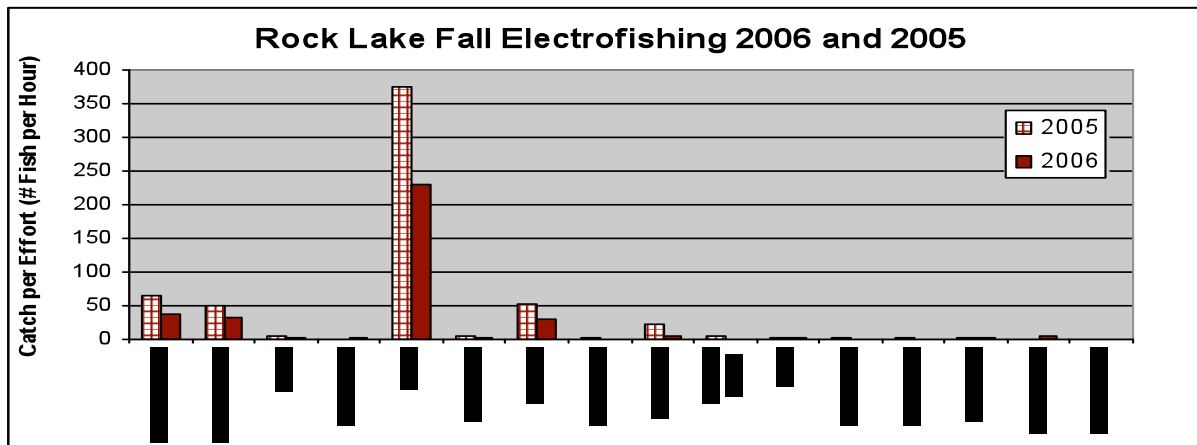


Rock Lake Fall Electrofishing Summary Report – 2006

Fall Electrofishing - Defined

Fall electrofishing was conducted on Rock Lake in Jefferson County on October 9, 2006. Fall electrofishing is conducted using a large boomshocker boat allowing for the collection of young-of-the-year (YOY) walleye and adult bass that are often undersampled 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 2.88 hours (covering 4.76 miles of shoreline) and the following stations were sampled: 1.) County boat launch on Hwy B to boat canal north of Korth's Bay (35 minutes), 2.) Boat canal north of Korth's Bay to just past the railroad trestle bridge (45 minutes), 3. Sandy Beach Park to Tyrana Park (93 minutes). This summary report will present fall electrofishing data from 2006 and compare results with similar surveys conducted in 2005. This report was compiled by Laura Stremick-Thompson, DNR Fisheries Biologist-Horicon (920) 387-7876 or Laura.Stremick-Thompson@dnr.state.wi.us.



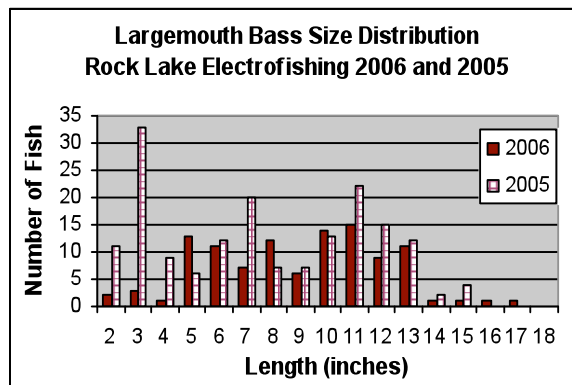
Gamefish Summary

Largemouth Bass

Abundance: 2006 Fall Electrofishing = 108 fish total or 37.5/hour
 2005 Fall Electrofishing = 173 fish total or 65.8/hour

Size Structure: 2006 Length Range = 2.9-17.8 inches
 2005 Length Range = 2.6-15.8 inches
 2006 Average Length = 9.4 inches
 2005 Average Length = 8.0 inches

A total of 108 largemouth bass were sampled during 2006 fall electrofishing. The number of largemouth bass greater than 14 inches (current legal harvestable size) was 3.7%, compared to 3.5% in 2005. The largemouth bass population in Rock Lake is naturally reproducing and no stocking is currently conducted by the DNR.

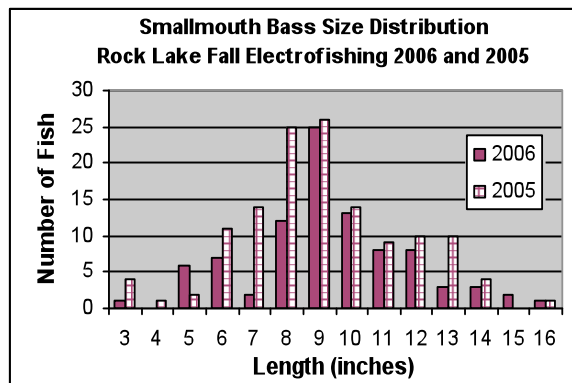


Smallmouth Bass

Abundance: 2006 Fall Electrofishing Catch = 91 fish total or 31.6/hour
 2005 Fall Electrofishing Catch = 131 fish total or 49.8/hour

Size Structure: 2006 Length Range = 3.3-16.7 inches
 2005 Length Range = 3.0-16.4 inches
 2006 Average Length = 9.8 inches
 2005 Average Length = 9.5 inches

A total of 91 smallmouth bass were sampled during 2006 fall electrofishing. The number of smallmouth bass greater than 14 inches (current legal harvestable size) was 6.6%, compared to 3.8% in 2005. The smallmouth bass population in Rock Lake is naturally reproducing and no stocking is currently conducted by the DNR.



Walleye

Abundance: 2006 Fall Electrofishing Catch = 7 fish total or 2.4/hour
 2005 Fall Electrofishing Catch = 11 fish total or 4.2/hour

Size Structure: 2006 Length Range = 15.4-21.1 inches
 2005 Length Range = 7.8-20.4 inches
 2006 Average Length = 18.3 inches
 2005 Average Length = 16.8 inches

A total of 7 walleye were collected during 2006 fall electrofishing. Despite the stocking of 251,600 walleye fry (average length .5 inches) in spring 2006, no young-of-the-year walleye (under 10 inches) were sampled during 2006 fall electrofishing.

Northern Pike

Abundance: 2006 Fall Electrofishing Catch = 4 fish total or 1.4/hour
 2005 Fall Electrofishing Catch = 4 fish total or 1.1/hour
Size Structure: 2006 Length Range = 22.0-25.3 inches
 2005 Length Range = 21.0-24.9 inches
 2006 Average Length = 23.4 inches
 2005 Average Length = 22.4 inches

A total of 4 northern pike were collected during 2006 fall electrofishing. 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.

Panfish Summary

A diverse panfish community exists in Rock Lake, including the most abundant species, bluegill, as well as rock bass and pumpkinseed. Fairly small populations of yellow perch, green sunfish, white bass and black crappie also inhabit the lake.

Bluegill

Abundance: 2006 Fall Electrofishing Catch = 662 fish total or 229.9/hour
 2005 Fall Electrofishing Catch = 990 fish total or 376/hour
Size Structure: 2006 Length Range = 1.6-9.0 inches
 2005 Length Range = 1.1-9.2 inches
 2006 Average Length = 5.7 inches
 2005 Average Length = 5.0 inches

In 2006, 49% of the bluegill measured were over 6 inches in length, compared to 25% in 2005.

Rock Bass

Abundance: 2006 Fall Electrofishing Catch = 86 fish total or 29.9/hour
 2005 Fall Electrofishing Catch = 140 fish total or 53.2/hour
Size Structure: 2006 Length Range = 3.2-10.5 inches
 2005 Length Range = 2.8-11.5 inches
 2006 Average Length = 6.9 inches
 2005 Average Length = 6.9 inches

Yellow Perch

Abundance: 2006 Fall Electrofishing Catch = 17 fish total or 5.9/hour
 2005 Fall Electrofishing Catch = 60 fish total or 22.8/hour
Size Structure: 2006 Length Range = 4.4-8.4 inches
 2005 Length Range = 2.9-10.4 inches
 2006 Average Length = 6.1 inches
 2005 Average Length = 5.8 inches

Of the 17 yellow perch measured in 2006, 76% were between 5 and 6 inches in length.

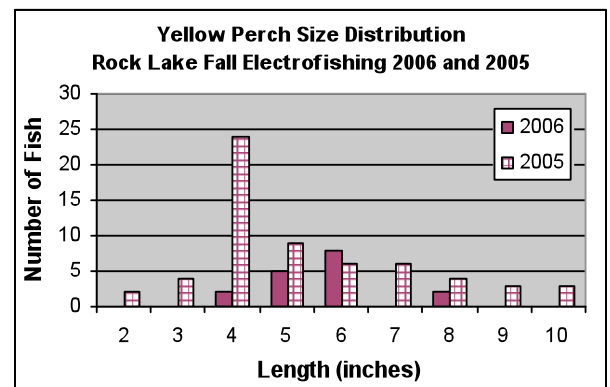
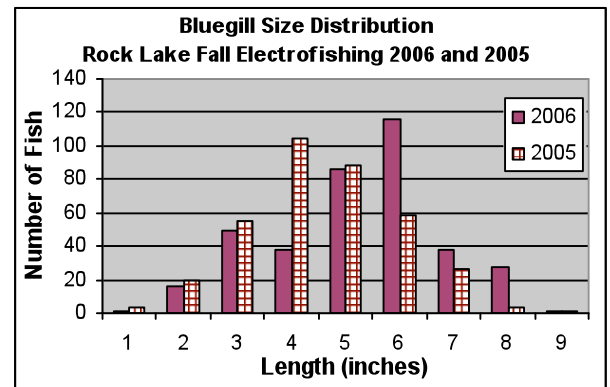
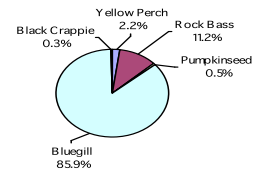
Pumpkinseed

Abundance: 2006 Fall Electrofishing Catch = 4 fish total or 1.4/hour
 2005 Fall Electrofishing Catch = 13 fish total or 5/hour
Size Structure: 2006 Length Range = 4.4-6.6 inches
 2005 Length Range = 2.6-7.2 inches
 2006 Average Length = 5.5 inches
 2005 Average Length = 4.6 inches

Non-game Species

Rock Lake contains a diverse non-game fish community including: bowfin, grass pickerel, white sucker, brook silverside, golden, emerald, blacknose, and mimic shiners, bluntnose and fathead minnows, yellow, black and brown bullhead, longnose gar, central mudminnow, blackstripe topminnow, banded killifish, Johnny darter, Iowa darter and common carp. In addition, two Special Concern (SC) species, the lake chubsucker and least darter and one Threatened (T) species, the pugnose shiner, inhabit Rock Lake. The pugnose shiner was collected during 2005, 2004 and 2003 fall electrofishing surveys. The lake chubsucker has been absent from fall electrofishing surveys since 2001.

**Panfish Relative Abundance
 Rock Lake Fall Electrofishing 2006
 (N=771 fish)**



**Non-Game Species Relative Abundance
 Rock Lake Fall Electrofishing 2006
 (N=30 fish)**

