



**WISCONSIN DNR
FISHERIES INFORMATION SHEET**

LAKE: TWO SISTERS

COUNTY: ONEIDA

YEAR: 2008

The Department of Natural Resources surveyed Two Sisters Lake, Oneida County, from May 5 through June 2, 2008, to determine the health of its fishery. The survey was designed to take a comprehensive look at the lake's fishery. Two Sisters Lake is a deep, clear spring lake with predominantly sand and gravel substrate and a moderate-density walleye population. It has a surface area of 719 acres, 9.3 miles of shoreline and a maximum depth of 63 feet.

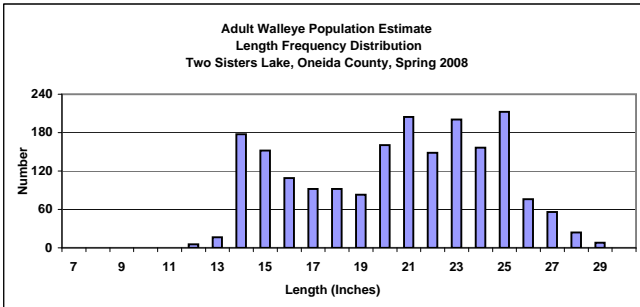


Figure 1. Length frequency distribution of 1,976 adult* walleye estimated to be in Two Sisters Lake, Oneida County, based on a spring 2008 survey.

* Note: Adult walleye are defined as all sexable walleye and walleye of unknown sex \geq 15 inches long.

Walleye

We conducted a mark-recapture survey of Two Sisters Lake's adult* walleye population from May 5 through May 10, 2008. We captured and marked (fin clipped) 531 adult walleye in five days of fyke netting. Two crews sampled Two Sisters Lake with electro-fishing boats on May 10th and captured 125 adult walleye. Twenty-eight percent (35 of 125) of those walleye had been marked during fyke netting.

Based on those results, we estimated that 1,976 adult walleye (2.7/acre) inhabited Two Sisters Lake. Nearly 90% (1,776 of 1,976) of adult walleye were 15 inches long or larger. The largest walleye we captured was a 29.2-inch female.

Smallmouth Bass

We were unable to capture enough smallmouth bass in our sampling of Two Sisters Lake to estimate their abundance. We caught a total of 91 smallmouth bass 8 inches long or larger. Approximately 24% (22 of 91) of those smallmouth bass were 14 inches long or larger. The largest smallmouth bass we captured was 17.7 inches long.

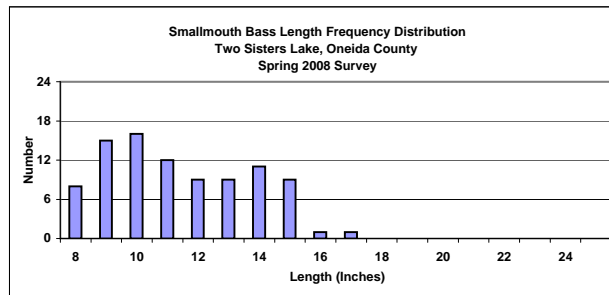


Figure 2. Length frequency distribution of 91 smallmouth bass \geq 8" captured during a fisheries survey of Two Sisters Lake, Oneida County, in spring 2008.

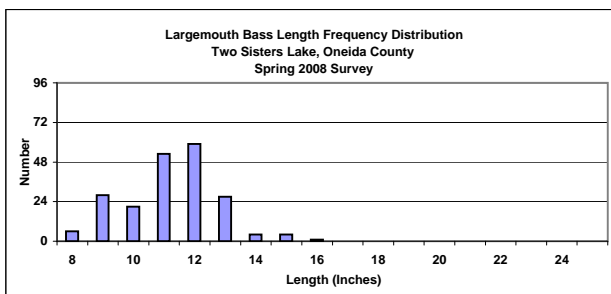


Figure 3. Length frequency distribution of 203 largemouth bass \geq 8" captured during a fisheries survey of Two Sisters Lake, Oneida County, in spring 2008.

Largemouth Bass

We captured 203 largemouth bass, 8 inches or larger, during our fyke netting and electro-fishing sampling of Two Sisters Lake. Nine of those largemouth were 14 inches long or larger. The biggest largemouth bass we captured was 16.7 inches long.

Northern Pike

We captured 52 adult* northern pike in fyke nets fished in Two Sisters Lake from May 5-9, 2008. None of the adult northern pike we captured were larger than 26 inches. The largest northern pike we captured was a 25.7-inch female.

* Note: Adult northern pike are defined as all sexable northern pike and northern pike of unknown sex \geq 12 inches long.

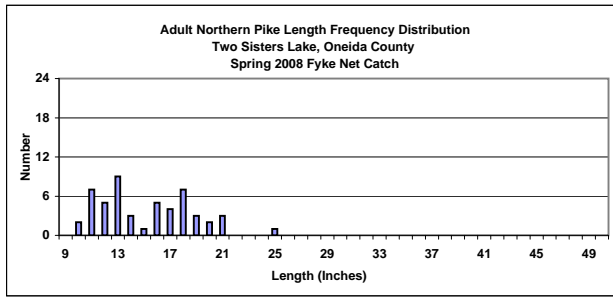


Figure 4. Length frequency distribution of 52 adult* northern pike captured in fyke nets during a fisheries survey of Two Sisters Lake, Oneida County, in spring 2008.

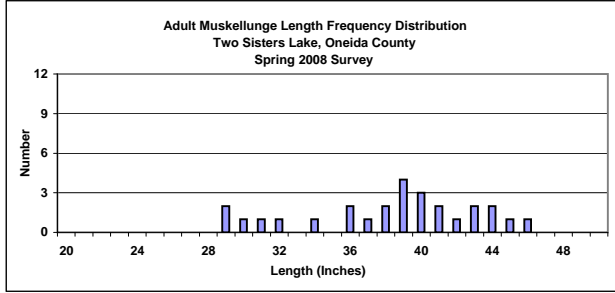


Figure 5. Length frequency distribution of 27 adult* muskellunge captured during a fisheries survey of Two Sisters Lake, Oneida County, in spring 2008.

Muskellunge

We captured 27 adult* muskellunge during our fyke netting and electro-fishing sampling of Two Sisters Lake. Approximately 81% of the adult muskellunge (22 of 27) we captured were 34 inches long or larger. Approximately 44% of those muskellunge (12 of 27) were 40 inches long or larger. The largest muskellunge we captured was a 46.2-inch female.

* Note: Adult muskellunge are defined as all sexable muskellunge and muskellunge of unknown sex \geq 20 inches long.

Other Species

We captured 12 species of fish in our fyke netting and electro-fishing sampling of Two Sisters Lake in addition to the game fish mentioned above. Bluegill and rock bass were common in our fyke net catches. We captured moderate numbers of black crappie, pumpkinseed, white sucker and yellow perch. We also caught black bullhead, common shiner, golden shiner, greater redhorse, northern hog sucker and yellow bullhead. In-water sampling will conclude with a survey of young-of-year walleye in fall 2008.

We are also conducting a creel (angler harvest) survey on Two Sisters Lake this year. Creel clerk David Stahmer will count and interview anglers and examine their catch throughout the 2008 open-water fishing season.

Table 1. General Fishing Regulations for Two Sisters Lake, Oneida County, 2008

FISH SPECIES	OPEN SEASON	DAILY LIMIT	MINIMUM LENGTH
Walleye	May 3 - March 1	3	15 inches
Largemouth and Smallmouth Bass	May 3 - June 20 (C&R) June 21 - March 1 (Harvest)	None 5 in total	14 inches
Muskellunge	May 24 - Nov. 30	1	40 inches
Northern Pike	May 3 - March 1	5	None

A brief summary of selected fishing regulations for Two Sisters Lake is included above (Table 1). While the regulatory information provided was current at the time the surveys were conducted, it is not comprehensive and should not be used as a substitute for the current fishing regulation pamphlet. You may obtain a copy of current fishing regulations when you purchase your fishing license, or download a copy from our web site at:

<http://www.dnr.wi.gov/fish/regulations/>

This report is interim only; data and findings should not be considered final. Results of creel surveys should be available by June 2009. If you are interested in a summary of the creel survey or want an update on this year's fyke netting and electro-fishing survey results, contact:

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