



WISCONSIN DEPARTMENT OF NATURAL RESOURCES

Fisheries Information Sheet

LAKE: Two Sisters

COUNTY: Oneida

YEAR: 2023

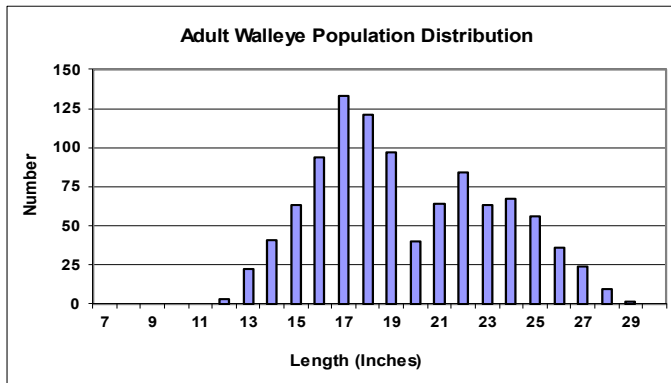
Introduction

The Department of Natural Resources surveyed Two Sisters Lake in Oneida County from May 7 through May 17 to assess the status of the walleye and muskellunge populations. An additional electrofishing survey was conducted June 6 to assess the bass and panfish communities. Two Sisters Lake is a spring-fed, clear water lake with predominantly sand and gravel substrates. It has a surface area of 719 acres, 9.4 miles of shoreline and a maximum depth of 63 feet. Two Sisters Lake's walleye population is sustained through a combination of natural reproduction and stocking, while the muskellunge population is supported solely through natural reproduction.



WALLEYE

During four days of walleye-targeted fyke netting, 522 adult walleyes (sexually mature or ≥ 15 inches) were captured and marked with a fin clip. Crews then sampled with electrofishing boats and caught 65 adult walleyes. During electrofishing, 35% (23 of 65) of walleyes bore the fin clip applied during fyke netting. Based on those results, Two Sisters Lake was estimated to contain 1,019 adult walleyes (1.4/acre).

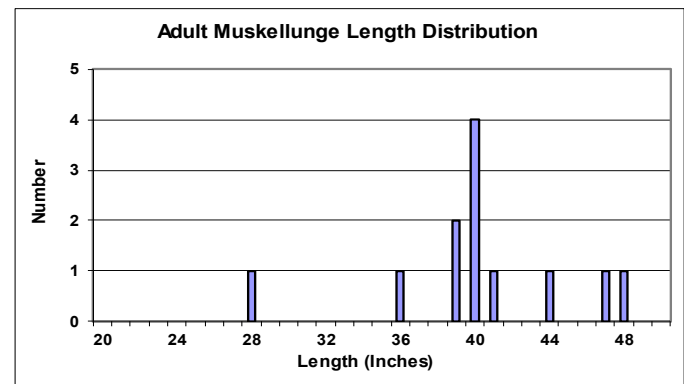


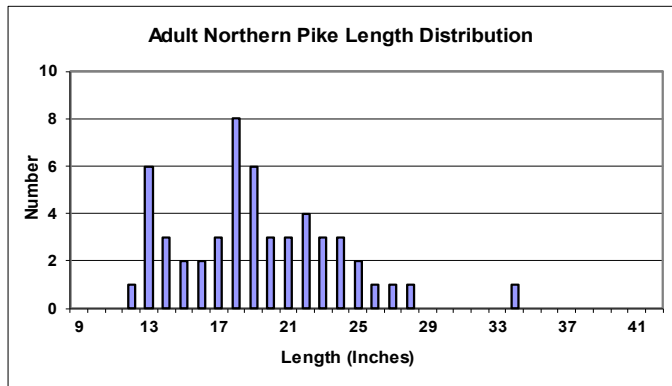
An estimated 93% of adult walleyes were 15 inches or longer. The largest walleye caught was a 29.7-inch female.

MUSKELLUNGE



During fyke netting and electrofishing sampling, 12 adult muskellunge (sexually mature or ≥ 30 inches) were caught. Of the adult muskellunge, 67% (8 of 12) were 40 inches or longer, with the largest being a 48.6-inch female.



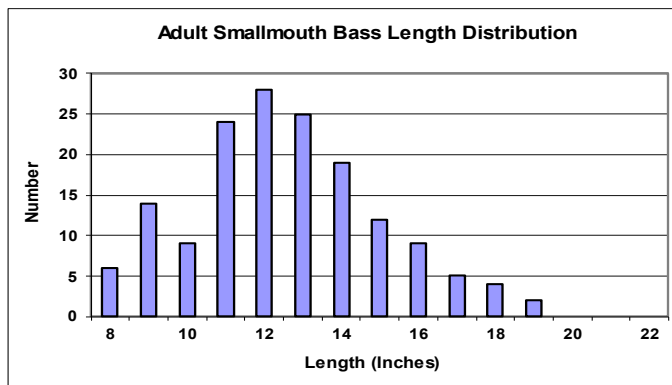
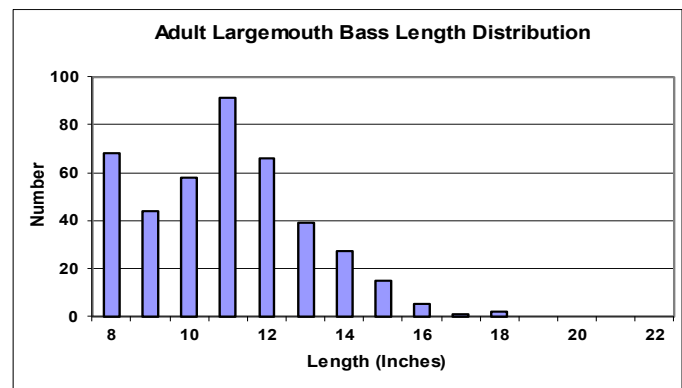


NORTHERN PIKE

Sampling Two Sisters Lake through June 6 resulted in the catch of 53 adult northern pike, sexually mature or ≥ 12 inches. Four (8%) of those pike were greater than 26 inches long, the largest measuring 34.3 inches.

LARGEMOUTH BASS

Lake survey sampling resulted in 470 largemouth bass caught. Of the 470 caught, 416 were considered adults (≥ 8 inches) and 12% were 14 inches or longer, the largest measuring 18.7 inches. During the June 6 electrofishing survey, adult largemouth bass were caught at a moderately high rate of 17.7 per mile of shoreline (22.1/mi for all largemouth bass).



SMALLMOUTH BASS

Survey sampling conducted through June 6, resulted in 170 smallmouth bass being caught. Of the 170 caught, 157 were considered adults (≥ 8 inches) and 33% were 14 inches or longer, the largest measuring 19.7 inches. During the June 6 electrofishing survey, adult smallmouth bass were caught at a moderate rate of 7.6 per mile of shoreline (8.7/mi for all smallmouth bass).

OTHER SPECIES

In addition to the gamefish mentioned above, fyke netting and electrofishing sampling efforts in Two Sisters Lake resulted in the catch of 18 species of fish. Rock Bass, Bluegill, Black Crappie, and Yellow Bullhead were common in survey catches. Other species caught included Pumpkinseed, Yellow Perch, White Sucker, Black Bullhead, Greater Redhorse, Common Shiner, Golden Shiner, Mimic Shiner, Bluntnose Minnow, Fathead Minnow, Central Mudminnow, Logperch, Johnny Darter, and Mottled Sculpin.

Table 1. Special fishing regulations for Two Sisters Lake, in Oneida County Wisconsin. Regulations for species not listed below follow the "General Inland Waters" rules found within the state fishing regulations pamphlet.

SPECIES	SEASON DATES	DAILY BAG LIMIT	SIZE LIMIT
walleye	May 6 - March 3	3	18 inches

Acknowledgements & Questions

This report was compiled by DNR fisheries technician Mark Love. For answers to questions about findings within this report contact the treaty fisheries biologist. For questions regarding fisheries management activities on Two Sisters Lake, contact the Oneida County biologist.

Lawrence Eslinger

Treaty Fisheries Biologist
Wisconsin Department of Natural Resources
8770 Highway J
Woodruff, WI 54568
(715) 356-5211 Ext. 209
Email: lawrence.eslinger@wisconsin.gov

Nathan Lederman

Oneida County Fisheries Biologist
Wisconsin Department of Natural Resources
107 Sutliff Ave
Rhinelander, WI 54501
(715) 525-2898
Email: nathaniel.lederman@wisconsin.gov