



**WISCONSIN DNR  
FISHERIES INFORMATION SHEET**

**LAKE:** MAMIE (Cisco Chain)

**COUNTY:** VILAS

**YEAR:** 2008

The Department of Natural Resources surveyed Mamie Lake, Cisco Chain, Vilas County, from May 3 through May 7, 2008, to determine the health of its fishery. The primary objective of the survey was to estimate the abundance of the lake's adult walleye population. Mamie Lake is a shallow, fertile, drainage lake with predominantly sand substrate. Mamie Lake has a high-density walleye population with a preponderance of small walleye. It has a surface area of 400 acres, 5.9 miles of shoreline and a maximum depth of 15 feet.

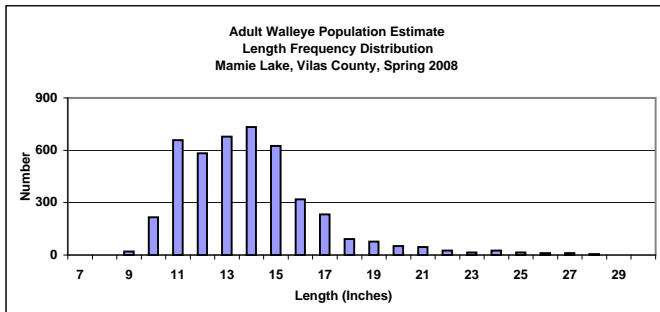


Figure 1. Length frequency distribution of 4,439 adult\* walleye estimated to be in Mamie Lake, Cisco Chain, Vilas County, based on a spring 2008 survey.

\* 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 Mamie Lake's adult\* walleye population from May 3 through May 7, 2008. We captured and marked (fin clipped) 954 adult walleye in three days of fyke netting. A crew sampled Mamie Lake with an electro-fishing boat on May 7th and captured 353 adult walleye. Nearly 21% (73 of 353) of those walleye bore the fin clip given during fyke netting.

Based on those results, we estimated that Mamie Lake is home to 4,439 adult walleye (11.1/acre). Approximately 35% (1,551 of 4,439) of adult walleye were 15 inches long or larger. The largest walleye we captured was a 28.2-inch female.

**Smallmouth Bass**

Smallmouth bass were not a primary target of our survey of Mamie Lake. Sampling occurred prior to peak smallmouth spawning. We captured only two smallmouth bass, 8-inches or larger, during our fyke netting and electro-fishing sampling. The largest smallmouth we captured was 18.5 inches long.

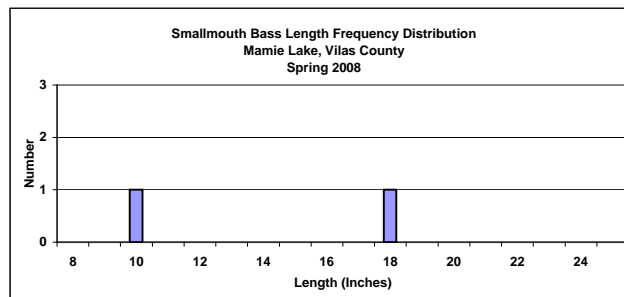


Figure 2. Length frequency distribution of two smallmouth bass  $\geq$  8" captured during a fisheries survey of Mamie Lake, Cisco Chain, Vilas County, in spring 2008.

**Northern Pike**

We captured 81 adult\* northern pike in fyke nets fished in Mamie Lake from May 3-5, 2008. Only three of the northern pike we captured were larger than 26 inches. The largest northern pike we captured was a 29.7-inch female.

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

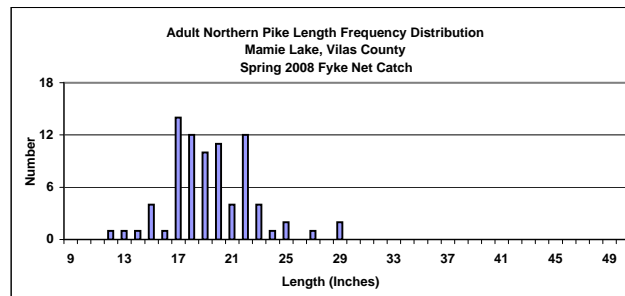


Figure 3. Length frequency distribution of 81 adult\* northern pike captured in fyke nets during a fisheries survey of Mamie Lake, Vilas County, in spring 2008.

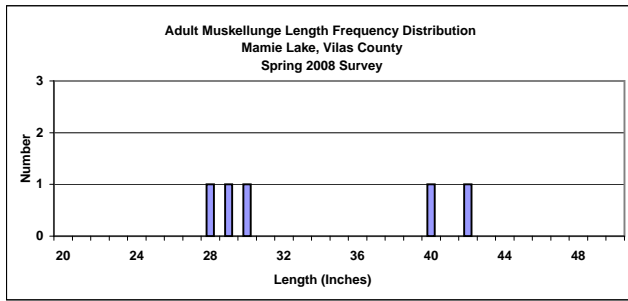


Figure 4. Length frequency distribution of five adult\* muskellunge captured during a fisheries survey of Mamie Lake, Vilas County, in spring 2008.

### **Muskellunge**

We captured five adult\* muskellunge during our fyke netting and electro-fishing sampling of Mamie Lake. We captured two muskellunge 34 inches long or larger. The largest muskellunge we captured was a 42.1-inch male.

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

### **Other Species**

We captured seven species of fish in our fyke netting and electro-fishing sampling of Mamie Lake in addition to the game fish mentioned above. Yellow perch were by far the most common fish species in our fyke net catches. We also caught moderate numbers of black crappie, bluegill, pumpkinseed, rock bass, white 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 Mamie Lake this year. Creel clerk John Logan will count and interview anglers and examine their catch throughout the 2008 open-water fishing season.

**Table 1. General Fishing Regulations for Mamie Lake, Vilas 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 - Nov. 30 (Harvest)	None 5 in total	14 inches
Muskellunge	May 15 - Nov. 30	1	40 inches
Northern Pike	May 3 - March 1	5	None

A brief summary of selected fishing regulations for Mamie 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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