



**WISCONSIN DNR  
FISHERIES INFORMATION SHEET**

**LAKE:** Lake Mary

**COUNTY:** Marinette

**WBIC:** 530500

**YEAR:** 2004

The Department of Natural Resources surveyed Lake Mary, Marinette County (T33N, R21E, Sec 25.), with a one night mini fyke net lift on August 2, 2004 and a night electroshocking run October 11, 2004, to determine the health of its fishery. The survey was designed to give a basic overview of the lake's fishery. Lake Mary is a hard-water drainage lake with a mainly sand substrate and a significant area of wetland along the northeast shore an inlet on the north side flows from Mud Lake and an outlet that flows into Lake Julia. Lake Mary has a surface area of 175 acres, 2.2 miles of shoreline and a maximum depth of 20 feet. The predominant fishery is composed of largemouth bass, northern pike, bluegill and yellow perch. Growth rates of both largemouth bass and northern pike were above the WDNR northeast region average for ages 1-3. The most abundant panfish species in the lake was Bluegill.

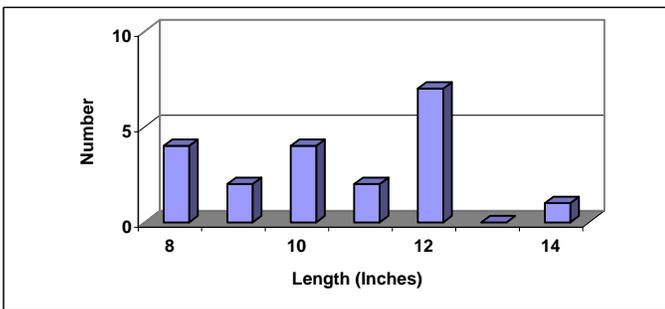


Figure 1. Length frequency distribution of 20 largemouth bass captured during a fisheries survey of Lake Mary, Marinette County, in fall 2004.

**Largemouth Bass**

We captured 20 largemouth bass, 8 inches or larger, during our electro-fishing sampling of Lake Mary on October 11, 2004. We also caught 6 largemouth bass that were juveniles (under 8 inches). Our catch per unit effort was 11.9 per mile or 23.6 per hour. No young -of-the-year largemouth bass were caught during our summer mini-fyke net survey.

The largemouth bass ranged in size from 2.0 inches to 14.0 inches with an average length of 9.9 inches. The fish surveyed indicated good growth at younger ages and slower growth at older ages. Largemouth bass aged 1-3 and 5-6 grew above the WDNR northeast average and age 4 grew below the WDNR northeast average.

**Northern Pike**

We captured 8 adult northern pike in our fall, 2004 survey of Lake Mary. Nearly 75% (6) of adult northern pike we captured were less than 20 inches long. Our catch per unit effort was 3.7 per mile or 7.3 per hour.

No young-of-the-year northern pike were captured during the summer mini fyke net survey.

The northern pike ranged in size from 14.0 inches to 22.5 inches with an overall average of 18.6 inches.

The fish surveyed showed good growth rates at young ages with ages 1-3 being above the WDNR northeast average. At age 4 the growth slowed and was below the WDNR northeast average.

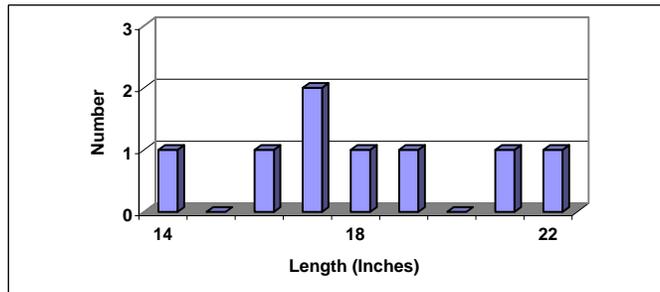


Figure 2. Length frequency distribution of 8 adult northern pike captured during a fisheries survey of Lake Mary, Marinette County, in fall 2004.

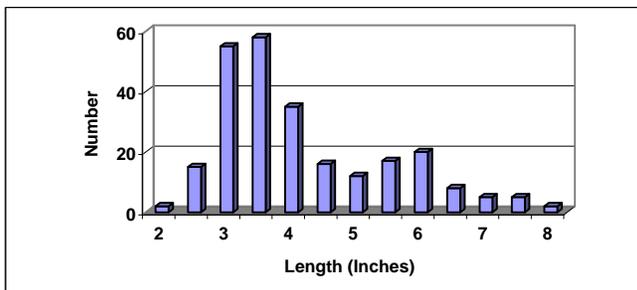


Figure 3. Length frequency distribution of 250 bluegill captured during a fisheries survey of Lake Mary, Marinette County, in fall 2004.

**Bluegill**

We captured 396 bluegill in our fall 2004 survey of Lake Mary. A sub sample of 250 bluegill were used for length analysis. The bluegill ranged in size from 2.0 inches to 8.0 inches with an overall average of 4.4 inches. Catch per unit effort was 182 per mile or 360 per hour.

**Yellow Perch**

We captured 62 yellow perch in our fall, 2004 survey of Lake Mary. The yellow perch ranged in size from 2.5 inches to 6.5 inches with an overall average length of 4.9 inches.

**Other Species**

We captured twelve species of fish in our mini-fyke netting and electro-fishing sampling of Lake Mary in addition to the game fish and pan fish mentioned above. Black crappie, pumpkinseed, rock bass and bullheads were caught in moderate numbers in our electro-fishing catches.

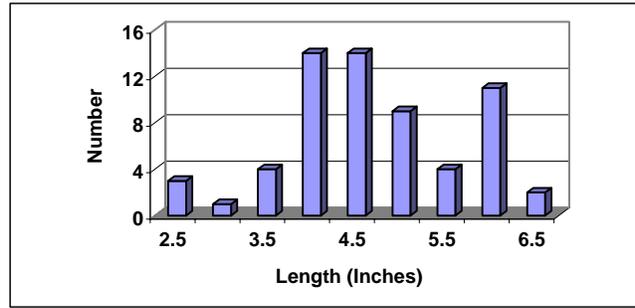


Figure 4. Length frequency distribution of 62 adult yellow perch captured during a fisheries survey of Lake Mary, Marinette County, in fall 2004.

**Conclusions**

Lake Mary should be managed for a largemouth bass, northern pike and panfish (bluegill, yellow perch, black crappie, pumpkinseed and rock bass) fishery. A comprehensive study was last conducted in 1983 and that survey showed similar results with the 2004 assessments, indicating a generally good fishery. I feel the habitat is sufficient for these species and do not recommend any stocking. There is adequate public access and boat launching facilities located at two sites and shoreline development does not appear to be negatively impacting Lake Mary. The current fishing regulations are adequate to protect this lake.

**Table 1. General Fishing Regulations for Lake Mary, Marinette County, 2006-2007**

FISH SPECIES	OPEN SEASON	DAILY LIMIT	MINIMUM LENGTH
Largemouth Bass	May 6 to June 16	0	Catch and Release Only
	June 17 to March 4	5	14 Inches
Northern Pike	May 6 to March 4	5	None
Pan Fish	Open all Year	25	None

A brief summary of selected fishing regulations for Lake Mary 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.state.wi.us/org/water/fhp/fish/>

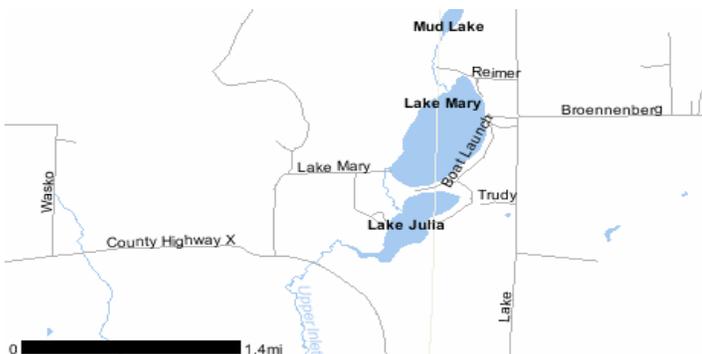


Figure 5. Location of Lake Mary, Marinette County

For answers to questions about fisheries management activities and plans for Lake Mary, Marinette County, contact:

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