



**WISCONSIN DNR  
FISHERIES INFORMATION SHEET**

**LAKE:** ARCHIBALD

**COUNTY:** OCONTO

**YEAR:** 2011

The Department of Natural Resources surveyed Archibald Lake, Oconto County, from April 28 through June 7, 2011, to determine the health of its fishery. The primary objective of the survey was to estimate the abundance of the lake's walleye population. Archibald Lake is a hard water seepage lake with predominantly sand substrate and a low-density walleye population. It has a surface area of 393 acres, 8.8 miles of shoreline and a maximum depth of 50 feet.

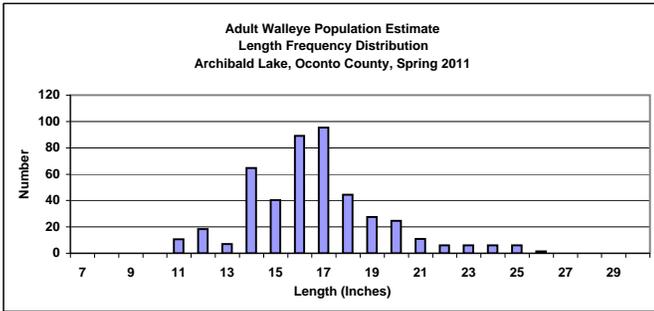


Figure 1. Length frequency distribution of 459 adult\* walleye estimated to be in Archibald Lake, Oconto County, based on a spring 2011 survey.

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

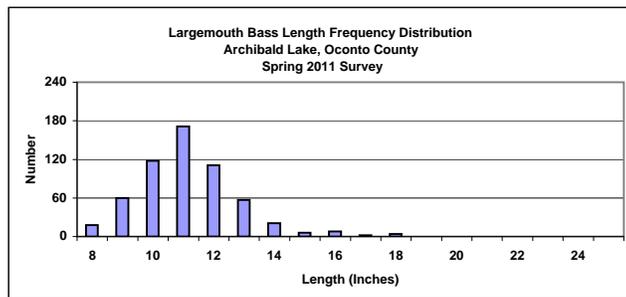


Figure 3. Length frequency distribution of 576 largemouth bass  $\geq$  8" captured during a fisheries survey of Archibald Lake, Oconto County, in spring 2011.

**Northern Pike**

The Peshtigo crew captured 64 adult\* northern pike in their sampling of Archibald Lake from April 28 through June 7, 2011. Sixty-two of the adult northern pike they captured were less than 26 inches long. The largest northern pike captured was 29.2 inches long.

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

**Walleye**

Chip Long and the Peshtigo crew conducted a mark-recapture survey of Archibald Lake's adult\* walleye population from April 28 through May 3, 2011. They captured and marked (fin clipped) 226 adult walleye in six days of fyke netting. Their crew sampled Archibald Lake with an electro-fishing boat on May 3rd and captured 67 adult walleye. Nearly 48% (32 of 67) of those walleye bore the fin clip given during fyke netting.

Based on those results, we estimated that Archibald Lake is home to 459 adult walleye (1.2/acre). Approximately 78% (358 of 459) of adult walleye were 15 inches long or larger. The largest walleye we captured was a 26.1-inch female.

**Largemouth Bass**

The Peshtigo crew captured 576 largemouth bass, 8 inches or larger, during their fyke netting and electro-fishing sampling of Archibald Lake. Approximately 7% (41 of 576) of those largemouth were 14 inches long or larger. The biggest largemouth bass they captured was 18.7 inches long.

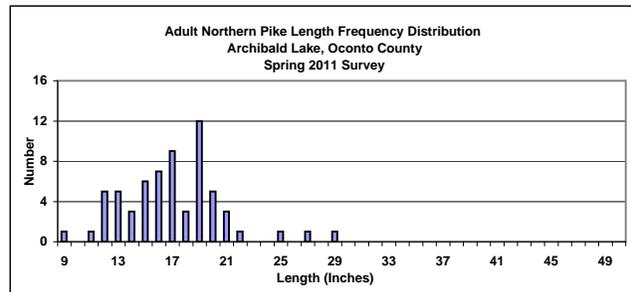


Figure 4. Length frequency distribution of 64 adult\* northern pike captured during a fisheries survey of Archibald Lake, Oconto County, in spring 2011.

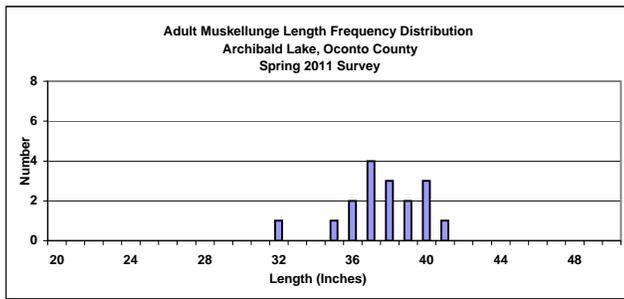


Figure 5. Length frequency distribution of 17 adult\* muskellunge captured during a fisheries survey of Archibald Lake, Oconto County, in spring 2011.

### Muskellunge

The Peshtigo crew captured 17 adult\* muskellunge during their fyke netting and electro-fishing sampling of Archibald Lake. Sixteen of those adult muskellunge were 34 inches long or larger. Roughly one in four muskellunge (4 of 17) were 40 inches long or larger. The largest muskellunge captured was a 41.2-inch female.

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

### Other Species

The Peshtigo crew captured seven species of fish in their fyke netting and electro-fishing sampling of Archibald Lake in addition to the game fish mentioned above. Bluegill, rock bass and yellow perch were the most common non-game species captured in their sampling. They also caught black crappie, pumpkinseed, white sucker and yellow bullhead. In-water sampling will conclude with a survey of young-of-year walleye in fall 2011.

We are also conducting a creel (angler harvest) survey on Archibald Lake this year. Creel clerk Neal Lowery will count and interview anglers and examine their catch throughout the 2011 open-water fishing season.

**Table 1. General Fishing Regulations for Archibald Lake, Oconto County, 2011**

FISH SPECIES	OPEN SEASON	DAILY LIMIT	MINIMUM LENGTH
Walleye	May 7 - March 4	3	15 inches
Largemouth and Smallmouth Bass	May 3 - June 17 (C&R) June 18 - March 4 (Harvest)	None 5 in total	14 inches
Muskellunge	May 28 - Nov. 30	1	40 inches
Northern Pike	May 7 - March 4	5	None

A brief summary of selected fishing regulations for Archibald 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 2012. Watch for survey summaries at: <http://dnr.wi.gov/fish/nor/northern.html> or contact:

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