



**WISCONSIN DNR
FISHERIES INFORMATION SHEET**

LAKE: ALLEQUASH

COUNTY: VILAS

YEAR: 2010

The Department of Natural Resources surveyed Allequash Lake, Vilas County, from April 2 through June 1, 2010, to determine the health of its fishery. Estimating walleye abundance was the primary objective of the survey. Allequash Lake is a drainage lake with predominantly sand and gravel substrate and a low-density walleye population. It has a surface area of 426 acres, 5.8 miles of shoreline and a maximum depth of 10 feet.

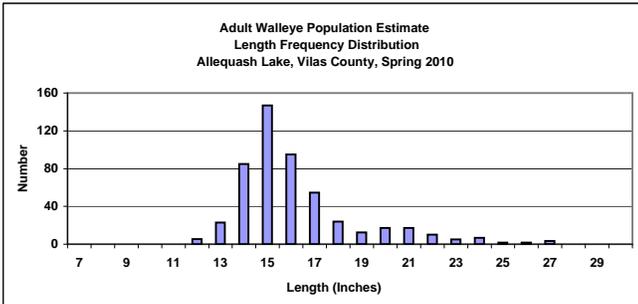


Figure 1. Length frequency distribution of 510 adult* walleye estimated to be in Allequash Lake, Vilas County, based on a spring 2010 survey.

* 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 Allequash Lake's adult* walleye population from April 2-6, 2010. We captured and marked (fin clipped) 359 adult walleye in four days of fyke netting. A crew sampled Allequash Lake with an electro-fishing boat on April 6th and captured 110 adult walleye. Nearly 72% (79 of 110) of those walleye bore the fin clip given during fyke netting.

Based on those results, we estimated that Allequash Lake is home to 510 adult walleye (1.2/acre). Approximately 78% (396 of 510) of adult walleye were 15 inches long or larger. The largest walleye we captured was a 26.7-inch female.

Smallmouth Bass

Smallmouth bass were an incidental catch in our survey of Allequash Lake. Most of our sampling was not done during the peak of the smallmouth bass spawning season.

We captured 10 smallmouth bass, 8 inches or larger, during our fyke netting and electro-fishing sampling of Allequash Lake. Four of those smallmouth were 14 inches long or larger. The largest smallmouth bass we captured was 16.1 inches long.

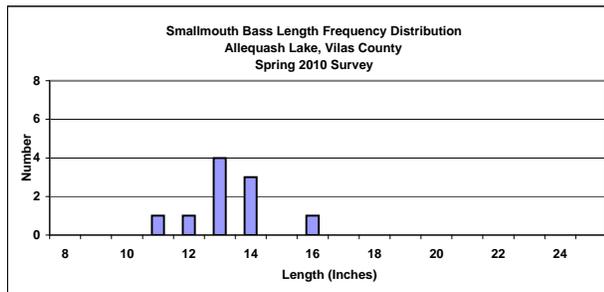


Figure 2. Length frequency distribution of 10 smallmouth bass \geq 8" captured during a fisheries survey of Allequash Lake, Vilas County, in spring 2010.

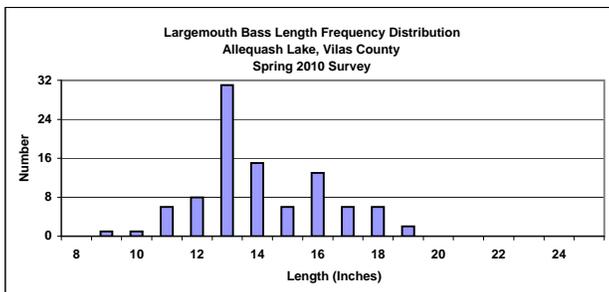


Figure 3. Length frequency distribution of 95 largemouth bass \geq 8" captured during a fisheries survey of Allequash Lake, Vilas County, in spring 2010.

Largemouth Bass

The majority of our sampling of Allequash Lake was also done outside the spawning period for largemouth bass.

We captured 95 largemouth bass, 8 inches or larger, during our fyke netting and electro-fishing sampling of Allequash Lake. Nearly 51% (48 of 95) of those largemouth were 14 inches long or larger. The biggest largemouth bass we captured was 19.6 inches long.

Northern Pike

We captured 56 adult* northern pike in fyke nets fished in Allequash Lake from April 2-5, 2010. Only one of the adult northern pike we captured was larger than 26 inches. That northern pike was 28.1 inches long.

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

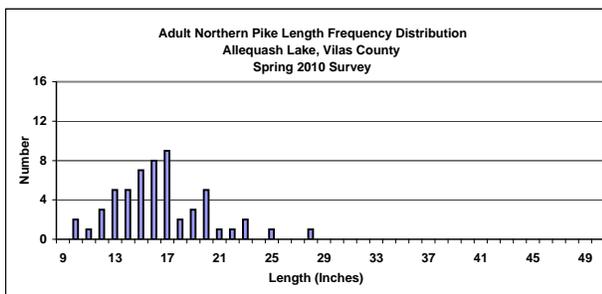


Figure 4. Length frequency distribution of 56 adult* northern pike captured in fyke nets during a fisheries survey of Allequash Lake, Vilas County, in spring 2010.

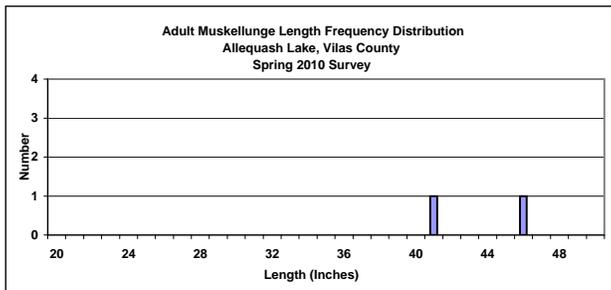


Figure 5. Length frequency distribution of two adult* muskellunge captured during a fisheries survey of Allequash Lake, Vilas County, in spring 2010.

Muskellunge

We captured two adult* muskellunge during our fyke netting and electro-fishing sampling of Allequash Lake. The largest muskellunge we captured was a 46.3-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 Allequash Lake in addition to the game fish mentioned above. Bluegill and yellow perch were the most abundant species in our fyke net catches. We caught moderate numbers of black crappie, white sucker and yellow bullhead. We also caught black bullhead, brook trout, creek chub, grass pickerel, pumpkinseed, rock bass and shorthead redhorse. In-water sampling will conclude with a survey of young-of-year walleye in fall 2010.

We are also conducting a creel (angler harvest) survey on Allequash Lake this year. Creel clerk John Logan will count and interview anglers and examine their catch during the 2010 open-water fishing season.

Table 1. General Fishing Regulations for Allequash Lake, Vilas County, 2010

FISH SPECIES	OPEN SEASON	DAILY LIMIT	MINIMUM LENGTH
Walleye	May 1 - March 6	5	15 inches
Largemouth and Smallmouth Bass	May 1 - June 18 (C&R) June 19 - March 6 (Harvest)	None 5 in total	14 inches
Muskellunge	May 29 - Nov. 30	1	40 inches
Northern Pike	May 1 - March 6	5	None

A brief summary of selected fishing regulations for Allequash 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 2011. Spring survey and creel survey summaries will be posted at:

<http://dnr.wi.gov/fish/nor/northern.html>

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