

**WISCONSIN DNR  
FISHERIES INFORMATION SHEET**

**LAKE:** CRESCENT

**COUNTY:** ONEIDA

**YEAR:** 2010

The Department of Natural Resources surveyed Crescent Lake, Oneida County, from April 1 through May 18, 2010, to determine the health of its fishery. The survey was designed to take a comprehensive look at the lake's fishery. Crescent Lake is a soft-water spring lake with substrate dominated by sand, gravel and rubble. Crescent Lake has a high-density walleye population made up of mostly small to medium-sized walleye. It has a surface area of 626 acres, 7.4 miles of shoreline and a maximum depth of 32 feet.

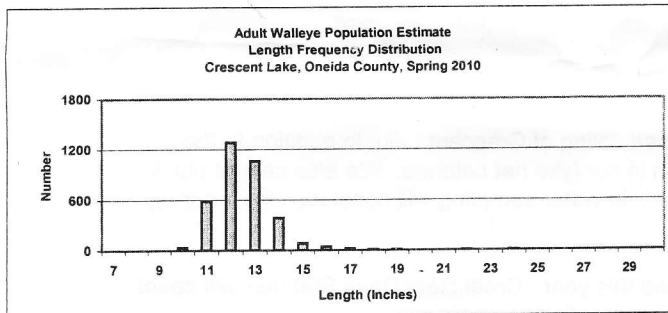


Figure 1. Length frequency distribution of 3,526 adult walleye estimated to be in Crescent Lake, Oneida County, based on a spring 2010 survey.

**Smallmouth Bass**

We also completed a mark-recapture survey of Crescent Lake's smallmouth bass population from April 1 through May 18, 2010. We captured and marked 129 smallmouth bass through May 15th. An electro-fishing crew captured 107 smallmouth bass on May 18th. Approximately 14% (15 of 107) of those smallmouth had been marked (fin clipped) in previous sampling.

From those results, we estimated that 792 smallmouth bass, 8-inches or larger, inhabited Crescent Lake. Approximately 69% (549 of 792) of those smallmouth were 14 inches long or larger. Nearly 12 percent (91 of 792) were 18 inches long or larger. The largest smallmouth we captured was 20.7 inches long.

**Walleye**

We conducted a mark-recapture survey of Crescent Lake's adult walleye population from April 1-8, 2010. We captured and marked (fin clipped) 1,398 adult walleye in eight days of fyke netting. Two crews sampled Crescent Lake with electro-fishing boats on April 8th and captured 531 adult walleye. Approximately 40% (211 of 531) of those walleye bore the fin clip given during fyke netting.

Based on those results, we estimated that Crescent Lake is home to 3,526 adult walleye (5.6 /acre). Nearly 16% (554 of 3,526) of adult walleye were 14 inches long or larger. The largest walleye we captured was a 28.2-inch female.

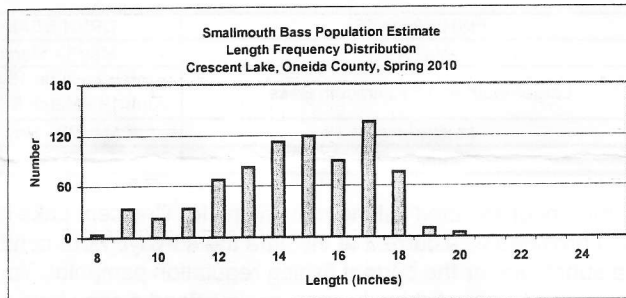


Figure 2. Length frequency distribution of 792 smallmouth bass  $\geq$  8" estimated to be in Crescent Lake, Oneida County, based on a spring 2010 survey.

**Largemouth Bass**

We captured 32 largemouth bass, 8 inches or larger, during our fyke netting and electro-fishing sampling of Crescent Lake. Approximately 84% (27 of 32) of those largemouth were 14 inches long or larger. The biggest largemouth bass we captured was 18.7 inches long.

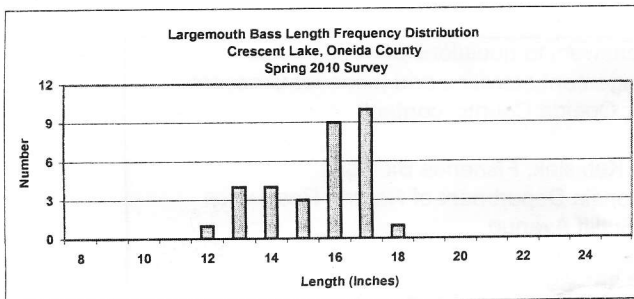


Figure 3. Length frequency distribution of 32 largemouth bass  $\geq$  8" captured during a fisheries survey of Crescent Lake, Oneida County, in spring 2010.

**Northern Pike**

We captured 161 adult northern pike in fyke nets fished in Crescent Lake from April 1-8, 2010. All of the adult northern pike we captured were less than 26 inches long. The largest northern pike we captured was a 25.7-inch female.

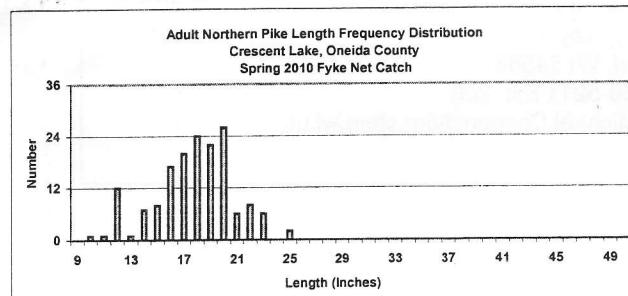


Figure 4. Length frequency distribution of 161 adult northern pike captured in fyke nets during a fisheries survey of Crescent Lake, Oneida County, in spring 2010.

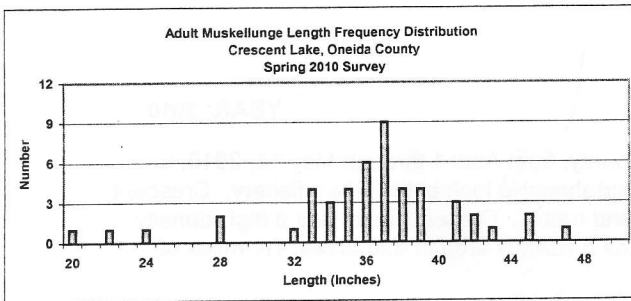


Figure 5. Length frequency distribution of 49 adult muskellunge captured during a fisheries survey of Crescent Lake, Oneida County, in spring 2010.

**Muskellunge**

We captured 49 adult muskellunge during our fyke netting and electro-fishing sampling of Crescent Lake. Nearly 80% of the adult muskellunge (39 of 49) we captured were 34 inches long or larger. Nine of those muskellunge were 40 inches long or larger. The largest muskellunge we captured was a 47.2-inch female.

**Other Species**

We captured eight species of fish in our fyke netting and electro-fishing sampling of Crescent Lake in addition to the game fish mentioned above. Yellow perch and rock bass were common in our fyke net catches. We also caught black crappie, bluegill, burbot, common shiner, pumpkinseed and white sucker. 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 Crescent Lake this year. Creel clerk Dave Stahmer will count and interview anglers and examine their catch throughout the 2010 open-water fishing season.

**Table 1. General Fishing Regulations for Crescent Lake, Oneida County, 2010**

| FISH SPECIES                   | OPEN SEASON  | DAILY LIMIT        | MINIMUM LENGTH                |
|--------------------------------|--|--------------------|-------------------------------|
| Walleye                        | May 1 - March 6                                      | 2                  | No minimum, only one over 14" |
| Largemouth and Smallmouth Bass | May 1 - June 18 (C&R)<br>June 19 - March 6 (Harvest) | None<br>1 in total | 18 inches                     |
| Muskellunge                    | May 29 - Nov. 30                                     | 1                  | 34 inches                     |
| Northern Pike                  | May 1 - March 5                                      | 5                  | None                          |

A brief summary of selected fishing regulations for Crescent 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>  
 or contact:

Mike Coshun, Treaty Fisheries Biologist  
 Wisconsin Department of Natural Resources  
 8770 Highway J  
 Woodruff, WI 54568  
 (715) 356-5211 Ext. 209  
 Email: Michael.Coshun@dnr.state.wi.us

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

John Kubisiak, Fisheries Biologist  
 Wisconsin Department of Natural Resources  
 107 Sutliff Avenue  
 Rhinelander, WI 54501  
 (715) 365-8919  
 Email: JohnF1.Kubisiak@Wisconsin.gov