The Department of Natural Resources surveyed Long Lake, Oneida County, from May 8 through May 23, 2014, to determine the health of its walleye fishery. Long Lake is a drainage lake with sand/gravel/rock substrate and a naturally reproducing walleye population. It has a surface area of 604 acres and a maximum depth of 31 feet.

**Walleye**

A mark-recapture survey of Long Lake’s adult walleye population was conducted from 5/8-5/10, 2014. During 3 days of fyke netting, 675 adult walleye were captured and marked with a fin clip and floy tag. Two crews sampled Long Lake with electro-fishing boats on May 10 and captured 599 adult walleye. During electro-fishing 28% (170 of 599) of captured walleye bore the fin clip given during fyke netting. The largest walleye captured was a 27.2-inch female.

Based on those results, Long Lake was estimated to contain 2,069 adult walleye (3.4 /acre). An estimated 16% (324 of 2,069) of adult walleye were 15 inches long or larger.

**Smallmouth Bass**

Smallmouth bass were not a primary target during our survey of Long Lake. Sampling occurred prior to peak smallmouth spawning. However, we did capture 17 smallmouth bass, 8 inches or larger, during fyke netting and electro-fishing. Of those smallmouth captured, 47% (8 of 17) were 14 inches long or larger. The largest smallmouth captured was 19.8 inches long.

**Largemouth Bass**

Largemouth bass were also not targeted during our survey of Long Lake. However, we incidentally captured 32 largemouth bass, 8 inches or larger, during fyke netting and electro-fishing. Of those largemouth captured, 34% (11 of 32) were 14 inches long or larger. The largest largemouth captured was 17.8 inches long.
From May 8 through May 23, 2014, 68 adult northern pike were captured in Long Lake. Of the adult northern pike captured 96% (65 of 68) were less than 26 inches long. The largest northern pike captured was a 26.7-inch female.

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

During our fyke netting and electro-fishing sampling of Long Lake, 21 adult muskellunge were captured. Of the muskellunge captured, 5% (1 of 21) were 40 inches long or larger. The largest muskellunge captured was a 42.2-inch female.

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

Other Species

In addition to the game fish mentioned above, 10 species of fish were captured during fyke netting and electro-fishing sampling of Long Lake. Yellow perch, black crappie, and rock bass were common in our fyke net catches. Also caught were moderate numbers of pumpkinseeds and white suckers. Other species sampled included yellow bullhead, burbot, common shiner, golden shiner, and redhorse.

A creel survey will be conducted on Long Lake throughout the 2014-15 fishing season to get estimates of fishing effort and angler harvest. Creel clerk John Logan will count and interview anglers and examine their catch. The information gathered will be used to estimate fishing effort and angler harvest.

Table 1. General Fishing Regulations for Long Lake, Oneida County, 2014-15

<table>
<thead>
<tr>
<th>FISH SPECIES</th>
<th>OPEN SEASON</th>
<th>DAILY LIMIT</th>
<th>MINIMUM LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walleye</td>
<td>May 3 - March 1</td>
<td>3</td>
<td>No min. length but only 1 fish over 14&quot; allowed</td>
</tr>
<tr>
<td>Largemouth Bass</td>
<td>May 3 - March 1</td>
<td>5 in total with SMB</td>
<td>14 inches</td>
</tr>
<tr>
<td>Smallmouth Bass</td>
<td>May 3 - June 20 (C&amp;R) June 21 - March 1 (Harvest)</td>
<td>5 in total with LMB harvest season only</td>
<td>14 inches</td>
</tr>
<tr>
<td>Muskellunge</td>
<td>May 24 - Nov. 30</td>
<td>1</td>
<td>40 inches</td>
</tr>
<tr>
<td>Northern Pike</td>
<td>May 3 - March 1</td>
<td>5</td>
<td>None</td>
</tr>
</tbody>
</table>

A brief summary of selected fishing regulations for Long 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 at:

http://dnr.wi.gov/topic/fishing/regulations/

This report is interim only; data and findings should not be considered final. Results of creel surveys should be available by June 2015. Watch for survey summaries at: http://dnr.wi.gov/topic/Fishing/north/trtysprngsvvys.html or contact:

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