INTRODUCTION

The Wisconsin Department of Natural Resources regularly conducts netting and electrofishing surveys of area lakes and reservoirs to determine what species of fish are present, how many of each there are, and what is the health of these populations. Information is also needed to determine the impact sport anglers are having on fish populations. To gather this information we conduct creel surveys.

A creel survey is a management tool used to measure the fishing activities of the anglers on a body of water. The key word in the last sentence is SURVEY. We cannot practically interview every angler (census) who fishes on a lake. Creel surveys are designed to have a creel survey clerk on a lake, working random shifts, forty hours each week throughout the fishing season. Each month these shifts cover a sample of all the daylight hours. A computer program is then used to accurately calculate estimates of all angler activity. This data is summarized by month using information collected by the creel survey clerk.

Creel survey clerks travel around their assigned lakes using a boat or snowmobile to count and interview anglers. Typically only anglers that have completed their fishing trip are interviewed. We prefer not to disturb anglers while they are fishing.

You may have encountered one of the department's clerks on a recent fishing trip and were interviewed. It only takes a moment of your time, but it helps us determine quite a lot about the fishery.

This creel survey report will provide you with four types of estimated information for this body of water:

1. Overall fishing pressure
2. Fishing effort directed at each species
3. Catch and harvest rates
4. Numbers of fish caught and harvested.

Also included in this report are physical information about the lake; discussion of results of the survey; and detailed summaries, by species, of what anglers caught.

Additional copies of this report and those covering other local lakes can be obtained from the Spooner DNR. Written requests should be sent to:

Treaty Fisheries Biologist
WDNR Spooner Office
810 West Maple Street
Spooner WI 54801

GENERAL INFORMATION

Seasons Surveyed
The creel survey started on opening day (5/2) of the 2009 gamefish season and ran through March 7, 2010. The only period not covered by the survey during this time was November 1 through November 30, due to unsafe ice conditions.

Harvest Regulations
The following seasons, daily bag limits, and length limits were in place on this lake in 2009-2010:

<table>
<thead>
<tr>
<th>Species</th>
<th>Season</th>
<th>Bag Limit</th>
<th>Min. Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Largemouth Bass</td>
<td>05/02-3/07</td>
<td>5</td>
<td>14&quot;</td>
</tr>
<tr>
<td>Smallmouth Bass</td>
<td>05/02-3/07</td>
<td>5</td>
<td>14&quot;</td>
</tr>
<tr>
<td>Musky</td>
<td>5/23-11/30</td>
<td>1</td>
<td>40&quot;</td>
</tr>
<tr>
<td>Northern Pike</td>
<td>5/02-3/07</td>
<td>5</td>
<td>none</td>
</tr>
<tr>
<td>Walleye</td>
<td>5/02-3/07</td>
<td>2*</td>
<td>15&quot;</td>
</tr>
<tr>
<td>Panfish</td>
<td>all year</td>
<td>25</td>
<td>none</td>
</tr>
</tbody>
</table>
SPECIES CATCH AND HARVEST INFORMATION

Angling information is summarized on a single page for each species. If a page for a particular species is not present in this section it is because no one reported they were fishing for that species and/or none were caught. Each species page has up to five graphs covering the following:

1. ESTIMATED FISHING EFFORT
   Total calculated number of hours during each month that anglers spent fishing for this species.

2. ESTIMATED ANGLER CATCH AND HARVEST RATES
   Calculated number of hours it takes an angler to catch or harvest a fish of the indicated species. Only information from anglers who were specifically targeting this species is reported here.

3. ESTIMATED ANGLER CATCH AND HARVEST
   Calculated number of fish of the species indicated caught or harvested by all anglers.

4. LENGTH DISTRIBUTION OF HARVESTED FISH MEASURED BY THE CREEL CLERK
   All fish of this species that were measured by the clerk during the entire creel survey season.

5. AVERAGE LENGTH AND LARGEST FISH HARVESTED
   Average length and the largest fish of this species harvested each month. Only those fish measured by the creel survey clerk are reported here.

ACKNOWLEDGEMENTS

Cal Glessing was the survey clerk on the lake for the entire survey period. He collected the angler interview information that makes this report possible.

The Department would like to thank Robert Wenzel. He generously allowed the department to keep a boat at his property during this survey.

We would also like to thank all the anglers who took the time to offer information about their fishing trip to the survey clerk. Without their cooperation this survey would not have been possible.
ESTIMATED ANGLER CATCH AND HARVEST RATES

MONTH

HOURS PER FISH

CATCH

HARVEST

ESTIMATED FISHING EFFORT

MONTH

ANGLING HOURS

WALLEYE

LENGTH DISTRIBUTION OF FISH MEASURED BY THE CREEL CLERK

INCHES

NUMBER OF FISH

AVERAGE LENGTH AND LARGEST FISH HARVESTED

INCHES

NUMBER OF FISH
ESTIMATED ANGLER CATCH AND HARVEST RATES

MONTH

ESTIMATED FISHING EFFORT

MONTH

ESTIMATED ANGLER CATCH AND HARVEST

MONTH

LENGTH DISTRIBUTION OF FISH MEASURED BY THE CREEL CLERK

INCHES

AVERAGE LENGTH AND LARGEST FISH HARVESTED

INCHES

SMALLMOUTH BASS
ESTIMATED ANGLER CATCH AND HARVEST RATES

MONTH

HOURS PER FISH

CATCH

HARVEST

ESTIMATED ANGLER CATCH AND HARVEST

MONTH

NUMBER OF FISH

ESTIMATED ANGLER CATCH AND HARVEST

MONTH

AVERAGE LENGTH AND LARGEST FISH HARVESTED

INCHES

LARGEMOUTH BASS

LENGTH DISTRIBUTION OF FISH MEASURED BY THE CREEL CLERK

INCHES

NUMBER OF FISH

AVERAGE LENGTH AND LARGEST FISH HARVESTED

INCHES

LARGEMOUTH BASS

ESTIMATED FISHING EFFORT

MONTH

ANGLING HOURS

YEAR


**Estimated Angler Catch and Harvest Rates**

- **Estimated Fishing Effort**
  - Angling hours per fishing effort:
    - May: 61
    - Jun: 186
    - Jul: 149
    - Aug: 81
    - Sep: 121
    - Oct: 63
    - Nov: 15
    - Dec: 14
    - Jan: 0
    - Feb: 0
    - Mar: 0

- **Estimated Angler Catch and Harvest Rates**
  - Hours per fish:
    - May: 0.0
    - Jun: 1.0
    - Jul: 0.0
    - Aug: 0.0
    - Sep: 0.0
    - Oct: 0.0
    - Nov: 0.0
    - Dec: 0.0
    - Jan: 0.0
    - Feb: 0.0
    - Mar: 0.0

**Length Distribution of Fish Measured by the Creel Clerk**

- Number of fish by length:
  - 3 inches: 6
  - 4 inches: 18
  - 5 inches: 16
  - 6 inches: 2
  - 7 inches: 2

**Average Length and Largest Fish Harvested**

- Average length:
  - May: 10.8
  - Jun: 10.8
  - Jul: 12.0
  - Aug: 12.0
  - Sep: 11.8
  - Oct: 11.8
  - Nov: 11.8
  - Dec: 12.0
  - Jan: 12.0
  - Feb: 10.8
  - Mar: 11.8

**Black Crappie**

- Black crappie image

**Estimated Fishing Effort**

- Estimated fishing effort by month:
  - May: 61
  - Jun: 186
  - Jul: 149
  - Aug: 81
  - Sep: 121
  - Oct: 63
  - Nov: 15
  - Dec: 14
  - Jan: 0
  - Feb: 0
  - Mar: 0

**Estimated Angler Catch and Harvest Rates**

- Estimated angler catch and harvest rates by month:
  - May: 0.0
  - Jun: 1.0
  - Jul: 0.0
  - Aug: 0.0
  - Sep: 0.0
  - Oct: 0.0
  - Nov: 0.0
  - Dec: 0.0
  - Jan: 0.0
  - Feb: 0.0
  - Mar: 0.0
ESTIMATED ANGLER CATCH AND HARVEST RATES

ESTIMATED ANGLER CATCH AND HARVEST

LENGTH DISTRIBUTION OF FISH MEASURED BY THE CREEL CLERK

AVERAGE LENGTH AND LARGEST FISH HARVESTED

YELLOW PERCH
RAINBOW TROUT

NO PICTURE AVAILABLE

ESTIMATED ANGLER CATCH AND HARVEST RATES

ESTIMATED ANGLER CATCH AND HARVEST

LENGTH DISTRIBUTION OF FISH MEASURED BY THE CREEL CLERK

LARGEST AND AVERAGE LENGTH OF FISH HARVESTED

ESTIMATED FISHING EFFORT
This graph illustrates the percentage of time that anglers spent fishing for each species during the entire creel survey. The percentages are based on the species of fish anglers told the clerk they were fishing for, not what they actually caught. If a particular species is not present in the graph it is because no one reported they were fishing for that species.
Estimated angler fishing effort on Silver Lake for each month surveyed and by season.

<table>
<thead>
<tr>
<th>Month</th>
<th>Total Angler Hours</th>
<th>Total Angler Hours/Acre</th>
<th>Barron County Average Hours/Acre</th>
<th>Statewide Average Hours/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>May</td>
<td>1124</td>
<td>3.3</td>
<td>4.8</td>
<td>5.8</td>
</tr>
<tr>
<td>June</td>
<td>1288</td>
<td>3.8</td>
<td>6.8</td>
<td>6.1</td>
</tr>
<tr>
<td>July</td>
<td>1239</td>
<td>3.7</td>
<td>6.5</td>
<td>6.4</td>
</tr>
<tr>
<td>August</td>
<td>1141</td>
<td>3.4</td>
<td>4.3</td>
<td>5.4</td>
</tr>
<tr>
<td>September</td>
<td>927</td>
<td>2.7</td>
<td>2.5</td>
<td>3.8</td>
</tr>
<tr>
<td>October</td>
<td>160</td>
<td>0.5</td>
<td>0.6</td>
<td>1.6</td>
</tr>
<tr>
<td>December</td>
<td>2362</td>
<td>7.0</td>
<td>1.9</td>
<td>1.7</td>
</tr>
<tr>
<td>January</td>
<td>833</td>
<td>2.5</td>
<td>2.7</td>
<td>1.5</td>
</tr>
<tr>
<td>February</td>
<td>361</td>
<td>1.1</td>
<td>2.8</td>
<td>1.3</td>
</tr>
<tr>
<td>March</td>
<td>239</td>
<td>0.7</td>
<td>**</td>
<td>**</td>
</tr>
<tr>
<td>*Summer Total</td>
<td>5879</td>
<td>17.4</td>
<td>25.6</td>
<td>29.1</td>
</tr>
<tr>
<td>*Winter Total</td>
<td>3793</td>
<td>11.3</td>
<td>7.4</td>
<td>4.5</td>
</tr>
<tr>
<td>Grand Total</td>
<td>9672</td>
<td>28.7</td>
<td>33.0</td>
<td>33.6</td>
</tr>
</tbody>
</table>

*"Summer" is May-October; "Winter" is December-March
**Too few lakes have been surveyed in March to give a meaningful statewide average.

**Number of Angler Party Interviews** is the number of groups of anglers interviewed by the creel clerk. A party is considered the members of a group who fish together in the same boat, ice shanty, or from shore. The clerk fills out one interview form for each group of anglers. The number of individual anglers actually contacted by the clerk is usually much greater than the number of groups listed in this table since most groups consist of more than one angler.

**Total Angler Hours** is the estimated total number of hours that anglers spent fishing on this lake during each month surveyed.

**Total Angler Hours/Acre** is the total angler hours divided by the area of the lake in acres. This is useful if you wish to compare effort on this lake to others.

**County Average Hours/Acre** is the average angler effort in hours per acre for county lakes that have been surveyed since 1990. This value can be useful in comparisons as well.

**Statewide Average Hours/Acre** is the average angler effort in hours per acre for inland lakes in the state surveyed between 1990 and 1995. This value can be used to compare this lake to other lakes statewide.
## CREEL SURVEY HISTORY/SYNOPSIS
### SILVER LAKE, BARRON COUNTY

**CREEL YEAR:** 2009-10

<table>
<thead>
<tr>
<th>SPECIES</th>
<th>DIRECTED EFFORT (Hours)</th>
<th>PERCENT OF TOTAL</th>
<th>TOTAL CATCH</th>
<th>SPECIFIC CATCH RATE (Hrs/Fish)</th>
<th>TOTAL HARVEST</th>
<th>SPECIFIC HARVEST RATE (Hrs/Fish)</th>
<th>MEAN LENGTH OF HARVESTED FISH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walleye</td>
<td>4674</td>
<td>27.54%</td>
<td>373</td>
<td>14.3</td>
<td>151</td>
<td>33.3</td>
<td>18.0</td>
</tr>
<tr>
<td>Northern Pike</td>
<td>2699</td>
<td>15.90%</td>
<td>680</td>
<td>10.0</td>
<td>162</td>
<td>20.0</td>
<td>22.1</td>
</tr>
<tr>
<td>Muskellunge</td>
<td>0</td>
<td>0.00%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Smallmouth Bass</td>
<td>3204</td>
<td>18.88%</td>
<td>2982</td>
<td>1.6</td>
<td>76</td>
<td>50.0</td>
<td>15.8</td>
</tr>
<tr>
<td>Largemouth Bass</td>
<td>3044</td>
<td>17.94%</td>
<td>4148</td>
<td>0.6</td>
<td>125</td>
<td>50.0</td>
<td>14.2</td>
</tr>
<tr>
<td>Bluegill</td>
<td>1612</td>
<td>9.50%</td>
<td>1515</td>
<td>1.4</td>
<td>268</td>
<td>6.3</td>
<td>7.7</td>
</tr>
<tr>
<td>Pumpkinseed</td>
<td>556</td>
<td>3.28%</td>
<td>271</td>
<td>2.5</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Black Crappie</td>
<td>781</td>
<td>6.35%</td>
<td>365</td>
<td>2.7</td>
<td>288</td>
<td>3.1</td>
<td>10.9</td>
</tr>
<tr>
<td>Yellow Perch</td>
<td>105</td>
<td>1.09%</td>
<td>428</td>
<td>3.7</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Brook Trout</td>
<td>37</td>
<td>0.39%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Brown Trout</td>
<td>127</td>
<td>1.99%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>Rainbow Trout</td>
<td>131</td>
<td>3.91%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.0</td>
</tr>
</tbody>
</table>