

## LAKE MANAGEMENT PLAN

Lit. Acres = Unknown

Region	Area	D.O.W Number	County	D.O.W. Lake Name	Acreage								
I	Walker 170	11-163	Cass	Cooper	137								
<p><b>Long Range Goal:</b> To provide a quality sportfishery with the following species specific population parameters: (over)</p>													
<p><b>Operational Plan:</b> Lake survey or population assessment every 12 years (1999, 2011, 2023 ...) unless some perceived problem arises. Fish habitat will be protected via strict permit reviews and dissemination of information on the value of various habitat components. Dissemination of information on the value of catch and release of quality-size fish for maintaining quality fish populations.</p>													
<p><b>Midrange Objective:</b> Fish population data collected will be used to determine if long-range goal is being achieved.</p>													
<p><b>Potential Plan:</b></p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Creel Survey to estimate fishing pressure and harvest</td> <td style="text-align: right;">\$ 5,000</td> </tr> <tr> <td style="padding-left: 20px;">Spring electrofishing to assess largemouth bass and black crappie populations</td> <td style="text-align: right;">500</td> </tr> <tr> <td style="padding-left: 20px;">Public Access (Trails &amp; Waterways funds)</td> <td style="text-align: right;">25,000</td> </tr> <tr> <td style="text-align: right;"><b>TOTAL \$</b></td> <td style="text-align: right;"><b>30,500</b></td> </tr> </table>						Creel Survey to estimate fishing pressure and harvest	\$ 5,000	Spring electrofishing to assess largemouth bass and black crappie populations	500	Public Access (Trails & Waterways funds)	25,000	<b>TOTAL \$</b>	<b>30,500</b>
Creel Survey to estimate fishing pressure and harvest	\$ 5,000												
Spring electrofishing to assess largemouth bass and black crappie populations	500												
Public Access (Trails & Waterways funds)	25,000												
<b>TOTAL \$</b>	<b>30,500</b>												
<p><b>NARRATIVE:</b> (Historical perspectives - <u>various surveys</u>; <u>past management</u>; <u>social considerations</u>; <u>present limiting factors</u>; <u>survey needs</u>; <u>land acquisition</u>; <u>habitat development and protection</u>; <u>commercial fishery</u>; <u>stocking plans</u>; <u>other management tools</u>; and <u>evaluation plans</u>)</p> <p style="text-align: center;"><b>(see reverse side)</b></p>				<p><b>FOR CENTRAL OFFICE USE ONLY</b></p>									
				Entry Date:	Year Resurvey:								
				Stock Species -Size- Number per Acre									
				Schedule:	Year Beginning								
				Population Manipulation									
				YES	NO	Year							
<p><b>Primary Species Management:</b> NOP, BLC</p>		<p><b>Secondary Species Management:</b> LMB, BLG</p>		Development									
				YES	NO	Year							
<p><b>Area Supervisor's Signature:</b></p>		<p><b>Date</b> July 7, 1994</p>		Creel or Use Survey									
				YES	NO	Year							
<p><b>Regional Manager's Signature:</b></p>		<p><b>Date</b></p>		Other:									
				Year									

**LAKE MANAGEMENT PLAN**

Re gi on	Area	D.O.W Number	County	D.O.W. Lake Name	Acreage	Date
----------------	------	-----------------	--------	------------------	---------	------

**NARRATIVE:** Cooper Lake 11-163

**LONG RANGE GOAL:**

Cisco

A. Gillnet catch rate of 5 to 15.

Northern Pike

A. Gillnet catch rate of 4 to 8.

B. PSD and RSD-P values of 50 and 15.

Bluegill

A. Trapnet catch rate of 30 to 50.

B. PSD and RSD-7 values of 50 and 5.

Black Crappie Sampling needs to be directed at this species to develop realistic goals. Largemouth Bass Sampling needs to be directed at this species to develop realistic goals.

**VARIOUS SURVEYS:**

1987 and 1973 lake surveys. Both surveys indicate a fairly abundant northern cisco population being present in Cooper Lake. The present northern pike gillnet catch is 5.3/net, with fish over 30 inches present in the sample. They exhibit a good growth rate. The present bluegill population appears to be dominated by fish that are less than 7 inches in length and relatively slow growing. Black crappie were not sampled during the 1987 survey, but were fairly abundant in the 1973 survey. The resort owner did state that there was an excellent winter and summer crappie fishery on the lake. Not many largemouth bass were collected. The few that were ranged in size from 6 to 15 inches in length. One longear sunfish was collected from Cooper Lake in 1987. Dr. James Underhill, University of Minnesota, confirmed the identification.

**PAST MANAGEMENT:**

Periodic northern pike stocking prior to 1968. One walleye fry stocking 1965.

**SOCIAL CONSIDERATIONS:** One resort and several cottages and homes are located on Cooper Lake. There is no public access. The lake is located two miles south of Longville MN.

**SURVEY NEEDS:**

Electrofishing to better assess largemouth bass and black crappie populations. Creel survey to assess fishing pressure and harvest.

**STOCKING PLANS:**

None at present.

**EVALUATION PLANS:**

Lake survey or population assessment every 12 years (1999, 2011, 2023 ...) unless some perceived problem arises.