

LAKE MANAGEMENT PLAN

Region	Area F212	D.O.W Number	County	D.O.W. Lake Name	Acreage								
2	Brainerd	18-226	Crow Wing	Goodrich	360								
<p>Long Range Goal: Provide a bluegill fishery with a PSD of 80, a RSD-P of 40 and a RSD-M of 10. Provide a black crappie fishery with a PSD of 80, a RSD-P of 40 and a RSD-M of 10, both based on spring trap netting. Maintain BLC abundance above 0.8/trap net and BLG abundance below 50.08/trap net in summer nettings.</p>													
<p>Operational Plan:</p> <ol style="list-style-type: none"> 1. Test net on a six-year rotation, with every third netting being a full survey. The next netting should be a full survey in 2012. 2. Evaluate bass abundance by spring electrofishing in netting years. 3. Evaluate special regulations for bluegill and black crappie with spring trap netting every third year. The next netting should be in 2009. 4. Encourage anglers to release northern pike 24 inches and larger. 													
<p>Midrange Objective: Evaluate progress toward meeting long rang goals for bluegill and black crappie. Build an electrofishing data base on bass populations.</p>													
<p>Potential Plan:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">1. AMA/environmental easements.</td> <td style="width: 40%; text-align: right;">100,000.</td> </tr> <tr> <td>2. Periodic winter fish house counts.</td> <td style="text-align: right;">500.</td> </tr> <tr> <td>3. Creel/recreational use survey</td> <td style="text-align: right;">25,000.</td> </tr> <tr> <td colspan="2" style="text-align: right;">TOTAL \$ 125,500.</td> </tr> </table>						1. AMA/environmental easements.	100,000.	2. Periodic winter fish house counts.	500.	3. Creel/recreational use survey	25,000.	TOTAL \$ 125,500.	
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<p>NARRATIVE: (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>Check the appropriate boxes below:</p> <ul style="list-style-type: none"> <input type="checkbox"/> BWCAW <input type="checkbox"/> Superior National Forest <input type="checkbox"/> Chippewa National Forest <input type="checkbox"/> Leech Lake Indian Reservation <input type="checkbox"/> 1854 Ceded Territory <input type="checkbox"/> 1837 Ceded Territory <input type="checkbox"/> Fond du Lac Indian Reservation <input type="checkbox"/> Voyageurs National Park 									
<p>Primary Species Management: Black Crappie, Bluegill</p>		<p>Secondary Species Management: Largemouth Bass</p>											
<p>Area Supervisor Signature:</p>		<p>Date:</p>		<p>Date sent from DNR Area Fisheries to USFS District Ranger:</p>									
<p>Regional Manager Signature:</p>		<p>Date:</p>		<p>Date sent from DNR Regional Fisheries to USFS Forest Supervisor:</p>									

LAKE MANAGEMENT PLAN - Goodrich Lake – Narrative

Various surveys- The initial lake survey was done in 1967. Subsequent nettings were done in 1974, 1982, 1987, 1992, 1999 and 2006. Spring electrofishing was done in 2006. Spring trap netting was done in 2005 and 2006. The lake was mapped in 1967.

A population assessment was done in 2006. Northern pike abundance was, again, above the third quartile value of 12.5/GN for the lake class. Walleye abundance remained below 1/GN and yellow perch were absent from net catches for the sixth time in the seven nettings to date. Largemouth bass abundance was “high” in trap nets and was 62.5/hour in spring electrofishing. Smallmouth bass were sampled at 1.5/hour in spring electrofishing, as well. Bluegill were caught at a rate of 22.78/TN in summer netting and black crappie at a rate of 2.0/TN. Spring netting showed PSD values over 80 for both species and RSD-P values of 26 for bluegills and 14 for crappies. No bluegills over 10 inches or crappies over 12 inches were caught in 2006 spring netting.

Past management- Management has primarily consisted of fish stocking, primarily of walleye and northern pike. Pike were last stocked in 1979. Walleye stocking was taken over by the lake association in 1988. DNR stocking was discontinued due to continually poor survival of stocked fingerlings, and lack of adequate public access.

Social considerations- The Goodrich-O’Brien Lake Association is an active and energetic group. Their main interest is trying to establish a walleye fishery in these two lakes. They have little interest in providing public access to this resource.

Present limiting factors- Northern pike abundance is often at or above the third quartile value for the lake class. Perch abundance is extremely low, being 0/GN in six of the seven nettings to date, thus complicating any attempts at walleye management.

Survey needs- The lake should be netted on a six-year rotation, with every third netting being a full survey. The next netting should be a full survey, in 2012. Spring electrofishing should be used in netting years to monitor bass populations. Spring trap netting should be done every third year, next in 2009, to follow progress of the special regulations put on bluegill and black crappie in 2005.

Land acquisition- Acquisition of an AMA or aquatic environmental easements should be pursued as opportunities arise.

Habitat development and protection- APM, DOW and WCA permitting processes should be used to protect habitat. Shoreline restoration/easements should be encouraged on this lake.

Commercial Fishery- There is little potential for commercial activity on this lake.

Stocking plans- There are no plans for DNR fish stocking on this lake. However, the lake association will be allowed to stock walleye fingerlings at a rate of up to 1 lb./littoral acre (237 lbs) in alternate (even numbered) years.

Other management tools- Following construction of a public access, special regulations reducing the possession limit of bluegill and black crappie to five fish of each species were adopted, effective 3/1/05. These regulations will be monitored with spring trap netting, on a three-year rotation, beginning in

2006.

Evaluation plans- Fish populations will be monitored using routine summer nettings. Spring electrofishing, in netting years, will be used to monitor bass populations. Spring trap netting will be used to monitor the effect of special regulations.

Goodrich Lake (18-226) netting summary

Lake Class 29

Species	Gear	Q1-Q3	1967	1974	1982	1987	1992	1999	2006
NOP	G	4.80-12.50	13.50	13.00	12.50	9.00	7.25	8.25	13.33
WAE	G	0.50-3.00	5.83	1.50	0.50	0.50	0.75	1.75	0.83
YEP	G	2.00-21.50			1.00	0.00	0.00	0.00	0.00
BLC	G	1.00-4.80	2.17	4.50	0.67	2.50	6.25	21.00	4.00
BLC	T	0.80-4.34	0.50	0.00	1.40	1.60	0.50	4.17	2.00
BLG	T	8.25-50.08	131.10	39.33	97.70	19.80	32.67	41.33	22.78
LMB	T	0.25-1.40	0.70	0.33	3.20	0.60	1.00	0.17	1.89
LMB	E	none							62.50
SMB	E	none							1.50

G = gill net

T= trap net

E= electrofishing