



Minnesota Department of Natural Resources
 Fisheries Management
 STANDARD LAKE SURVEY REPORT



Lake Name: Lower Sakatah

Survey Type: Natural Reproduction Check

DOW Number: 66-0044-00

Survey ID Date: 11/15/2007

Lake Identification

Alternate Lake Name: N/A
 Primary Lake Class ID: 43

DNR Sounding Map Number: N/A
 Alternate Lake Class ID: 43

Lake Location

Primary County: Rice

Nearest Town: Mankato

Legal Descriptions

Lake Center: Township - 109N Range - 22W Section - 20
 PLS Section Lake Center: 3177

All Legal Descriptions:

Rice County: Township - 109N Range - 22W Sections - 17, 19, 20

Area Office

Area Name: Waterville
 Region Name: Southern

ORG Code: F417
 Region Number: 4

Lake Access

(Information based on Re-Survey dated 08/04/2004)

Station ID	Ownership	Public Use	Type	Location / Comments
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(Data excludes records where public use is not designated or is designated "No Public Use")

Lake Characteristics

Lake Area (planimetered acres): 310.00	GIS Shoreline Length (miles): 6.05
GIS Lake Area (acres): 372.20	Maximum Fetch (miles): 3.00
DOW Lake Area (acres): 341.00	Fetch Orientation (degrees): N/A
Littoral Area (acres): 310.00	USGS Quad Map Number: V15a
Area in MN (acres): 372.20	USGS Quad 24K GIS Index: 4230
Maximum Depth (feet): 7.0	
Mean Depth (feet): N/A	

Watershed Characteristics

Major Watershed

Name: Cannon River
 Watershed Number: 39
 Watershed size (acres): 941,122

Minor Watershed

Name: Lower Sakatah L
 Watershed Number: 94
 Watershed size (acres): 5,133

Surveys And Investigations

Initial Survey: 09/02/1986.

Re-Survey: 08/04/2004, 08/16/1999, 08/03/1994, 08/14/1989.

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Surveys And Investigations (Continued)

Population Assessment: 08/07/1968.

Special Assessment: 10/19/2006, 11/02/2005, 09/29/2004, 05/25/2004, 10/13/2003, 10/25/2002,
10/18/2001, 10/12/2000, 10/06/1999, 10/26/1998, 10/15/1997, 10/16/1996,
10/11/1995, 10/24/1994, 10/06/1993, 10/23/1992, 10/01/1991, 10/18/1990,
10/19/1989, 10/05/1988, 08/02/1983, 05/13/1954.

Natural Reproduction Check: 11/15/2007.

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Electrofishing Catch Summary for EF

Standard electrofishing

Total run-time for all stations: 01:00:00
Total on-time for all stations: 00:54:36
First Sampling Date: 11/15/2007
Last Sampling Date: 11/15/2007
Daylight Flag: No
Target Species: All juveniles walleye

Abbr	Species	Summary By Numbers			Summary By Weight (Pounds)		
		Total Number	Run-Time	Number per Hour On-Time	Total Weight	Run-Time	Lbs per Hour On-Time
(No fish taken)							

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Survey Crew Notes

Field work by Sean Sisler and Peter Muggli.

Report by Marc Bacigalupi.

Area Signed by user 'huvalian' on 04/03/2008

Discussion

This fall electrofishing survey was conducted as part of a 20-year monitoring of walleye year-classes in the Cannon River chain of lakes in which walleye fry are stocked at 1500/littoral acre 3 out of 4 years.

2007 was a non-stocked year. Therefore, the catch of 0 young-of-the-year (YOY) walleye per hour of electrofishing is not unexpected. In 7 non-stocked years since 1987, the average catch rate of YOY walleye in Lower Sakatah is 2 per electrofishing hour. This number is skewed higher due to the catch of 11/hr in 2001 when significant walleye natural reproduction occurred in the Cannon River chain of lakes. The average catch rate in 14 stocked years since 1987 is 18 with standard error of 3.6.

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Status Of The Fishery

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Approval Dates And Notices



Date Approved By Waterville Area Fisheries Supervisor: 04/03/2008

Date Approved By Southern Region Fisheries Manager: JR

4/30/2008

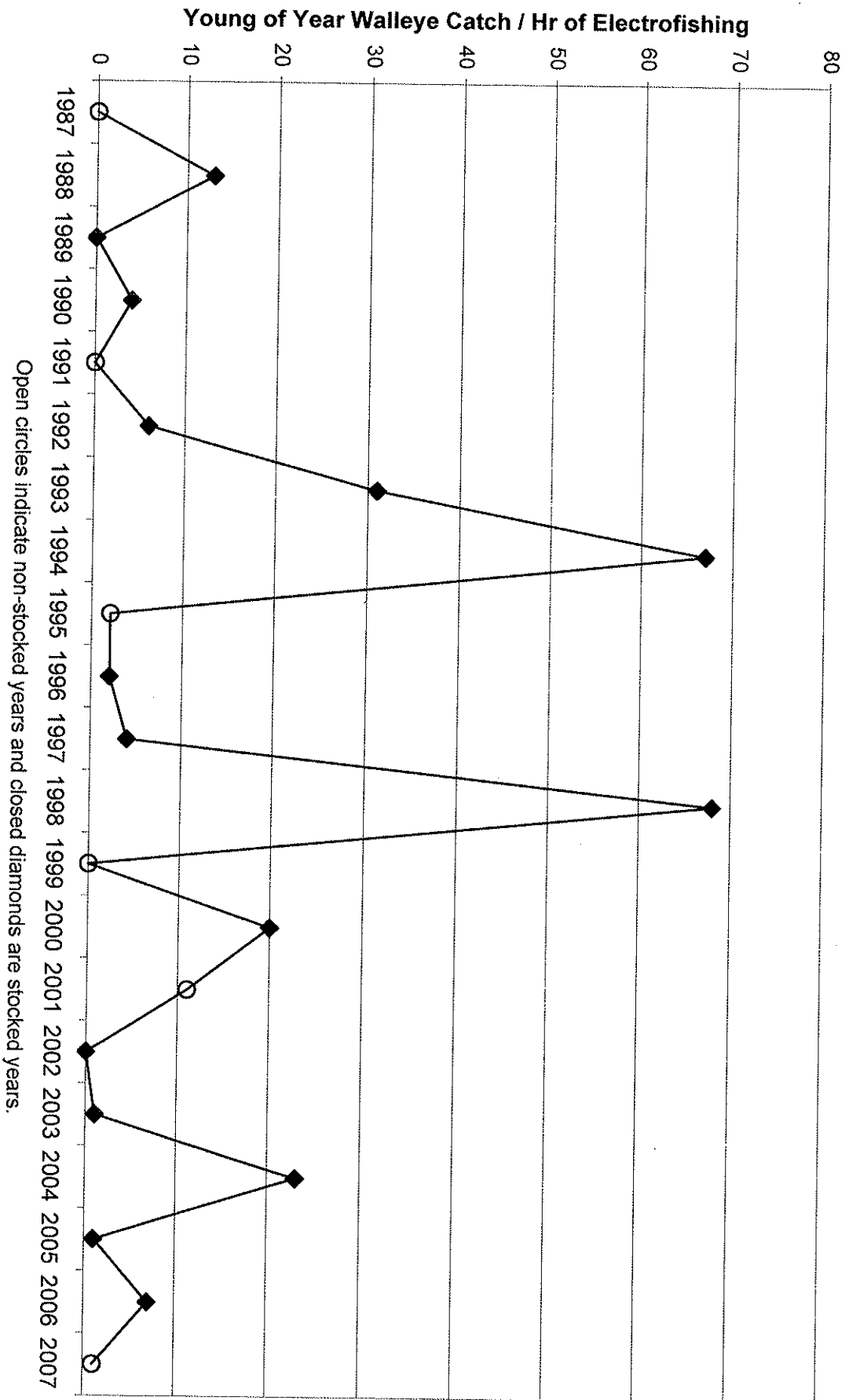


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LOWER SAKATAH



Cannon River Chain of Lakes

