



Minnesota Department of Natural Resources
 Fisheries Management
 STANDARD LAKE SURVEY REPORT



Lake Name: Tetonka
 DOW Number: 40-0031-00

Survey Type: Natural Reproduction Check
 Survey ID Date: 10/24/2007

Lake Identification

Alternate Lake Name: N/A
 Primary Lake Class ID: 24
 DNR Sounding Map Number: B0201
 Alternate Lake Class ID: 24

Lake Location

Primary County: Le Sueur
 Nearest Town: Waterville

Legal Descriptions

Lake Center: Township - 109N Range - 23W Section - 20
 PLS Section Lake Center: 2657

All Legal Descriptions:

Le Sueur County: Township - 109N Range - 23W Sections - 18, 19, 20, 21, 22, 27, 28, 29
 Township - 109N Range - 24W Section - 24

Area Office

Area Name: Waterville
 Region Name: Southern
 ORG Code: F417
 Region Number: 4

Lake Access

(Information based on Re-Survey dated 07/12/2004)

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): 1336.00	GIS Shoreline Length (miles): 11.64
GIS Lake Area (acres): 1357.77	Maximum Fetch (miles): 4.00
DOW Lake Area (acres): 1336.00	Fetch Orientation (degrees): N/A
Littoral Area (acres): 548.00	USGS Quad Map Number: V15a
Area in MN (acres): 1357.77	USGS Quad 24K GIS Index: 4230
Maximum Depth (feet): 35.0	
Mean Depth (feet): 19.0	

Watershed Characteristics

Major Watershed

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

Minor Watershed

Name: Tetonka L
 Watershed Number: 104
 Watershed size (acres): 6,906

Surveys And Investigations

Initial Survey: 07/22/1947.

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Surveys And Investigations (Continued)

Re-Survey: 07/12/2004, 07/12/1999, 07/20/1994, 08/07/1989, 08/26/1981, 08/25/1969,
07/20/1955, 07/21/1952.

Population Assessment: 08/26/1986.

Special Assessment: 10/05/2006, 10/11/2005, 10/10/2004, 05/25/2004, 10/14/2003, 10/10/2002,
11/02/2001, 10/04/2000, 09/21/1999, 10/08/1998, 09/18/1997, 09/22/1996,
10/17/1995, 10/05/1994, 09/30/1993, 10/20/1992, 10/09/1991, 10/09/1990,
10/12/1989, 10/04/1988.

Natural Reproduction Check: 10/24/2007.

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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: 00:58:11
 First Sampling Date: 10/24/2007
 Last Sampling Date: 10/24/2007
 Daylight Flag: No
 Target Species: N/A

Abbr	Species	Summary By Numbers			Summary By Weight (Pounds)			
		Total Number	Number per Hour Run-Time	On-Time	Total Weight	Lbs per Hour Run-Time	On-Time	Mean Weight
WAE	Walleye	22	22.00	22.69	7.02	7.02	7.24	0.32

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Length Frequency Distribution For EF

Standard electrofishing

(Field work conducted on 10/24/2007)

	<u>WAE</u>	<u>YWAE</u>
< 3.00	-	-
3.00 - 3.49	-	-
3.50 - 3.99	-	-
4.00 - 4.49	-	-
4.50 - 4.99	-	-
5.00 - 5.49	-	-
5.50 - 5.99	-	2
6.00 - 6.49	-	2
6.50 - 6.99	-	2
7.00 - 7.49	-	-
7.50 - 7.99	-	-
8.00 - 8.49	-	-
8.50 - 8.99	1	-
9.00 - 9.49	1	-
9.50 - 9.99	1	-
10.00 - 10.49	2	-
10.50 - 10.99	3	-
11.00 - 11.49	4	-
11.50 - 11.99	3	-
12.00 - 12.99	-	-
13.00 - 13.99	1	-
14.00 - 14.99	-	-
15.00 - 15.99	-	-
16.00 - 16.99	-	-
17.00 - 17.99	-	-
18.00 - 18.99	-	-
19.00 - 19.99	-	-
20.00 - 20.99	-	-
21.00 - 21.99	-	-
22.00 - 22.99	-	-
23.00 - 23.99	-	-
24.00 - 24.99	-	-
25.00 - 25.99	-	-
26.00 - 26.99	-	-
27.00 - 27.99	-	-
28.00 - 28.99	-	-
29.00 - 29.99	-	-
30.00 - 30.99	-	-
31.00 - 31.99	-	-
32.00 - 32.99	-	-
33.00 - 33.99	-	-
34.00 - 34.99	-	-
35.00 - 35.99	-	-
= > 36.00	-	-

	<u>WAE</u>	<u>YWAE</u>
Total	16	6
Min. Length	8.78	5.87
Max. Length	13.39	6.81
Mean Length	10.87	6.31
# Measured	16	6
No Lengths for	0	0

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Age Class Frequency Distribution

Species and Gear (1)	Number of Fish (2)			Number of Fish in Year Class ('yy) and Age Class															
	Aged	Keyed	Unaged	'07 0	'06 1	'05 2	'04 3	'03 4	'02 5	'01 6	'00 7	'99 8	'98 9	'97 10	'96 11	'95 12	'94 13	'93 14	<'93 15+
Walleye																			
EF	13	4	5	6	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0

(1) Key to sampling gear abbreviations:

EF = Standard electrofishing

(2) Notes:

Number of Fish Aged: Fish that were aged from bony parts.

Number of Fish Keyed: Fish assigned an age with an age-length key or by expansion of mesh or station age distributions.

Number of Fish Unaged: Fish that were not aged and were not assigned an age.

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Survey Crew Notes

Fall WAE EF conducted by Sean Sisler and staff

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 5 young-of-the-year (YOY) walleye per hour of electrofishing could be indicative of some natural reproduction or a result of hatchery escapements. In 7 non-stocked years since 1987, the average catch rate of YOY walleye in Tetonka is 13 per electrofishing hour. This number is skewed higher due to the catch of 68 /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 26 with a standard error of 5.6.

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Status Of The Fishery

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Approval Dates And Notices

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

Date Approved By Southern Region Fisheries Manager: *[Handwritten signature]*

4/30/2008

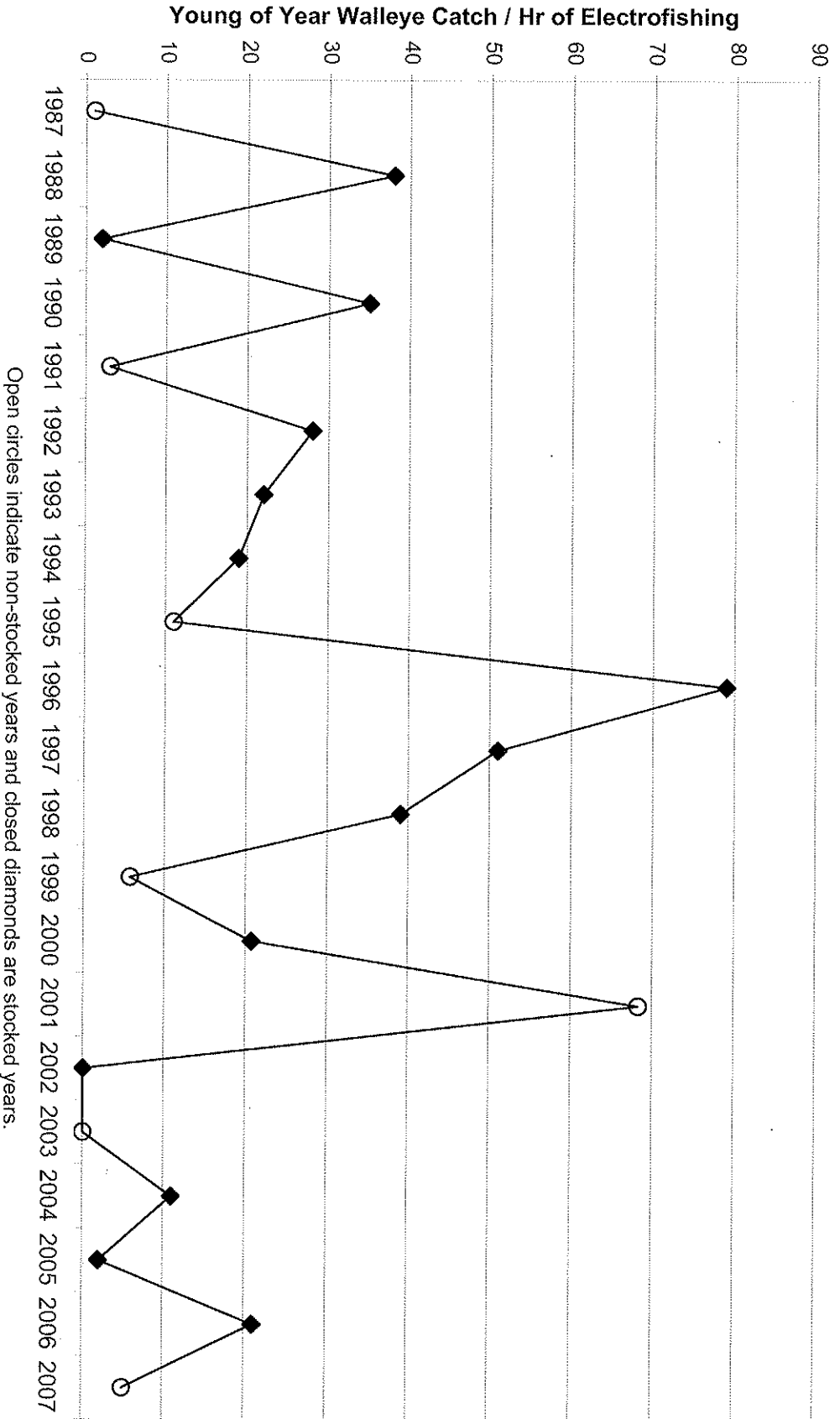


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TETONKA LAKE



Cannon River Chain of Lakes

