



Minnesota Department of Natural Resources  
 Fisheries Management  
 STANDARD LAKE SURVEY REPORT



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

Survey Type: Special Assessment  
 Survey ID Date: 10/05/2006

**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
AC - 1	DNR		Concrete	SOUTH SHORE STATE OWNED WITH CONCRETE RAMP AND SMALL PICNIC AREA. SOUTH SHORE STATE OWNED WITH CONCRETE RAMP AND SMALL PICNIC AREA.

**Lake Characteristics**

Lake Area (planimetered acres): 1336.00  
 GIS Lake Area (acres): 1357.77  
 DOW Lake Area (acres): 1336.00  
 Littoral Area (acres): 548.00  
 Area in MN (acres): 1357.77  
 Maximum Depth (feet): 35.0  
 Mean Depth (feet): 19.0

GIS Shoreline Length (miles): 11.64  
 Maximum Fetch (miles): 4.00  
 Fetch Orientation (degrees): N/A  
 USGS Quad Map Number: V15a  
 USGS Quad 24K GIS Index: 4230



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**Watershed Characteristics**

**Major Watershed**

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

**Minor Watershed**

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

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**Surveys And Investigations**

**Initial Survey:** 07/22/1947.

**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.

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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: 01:00:00  
 First Sampling Date: 10/05/2006  
 Last Sampling Date: 10/05/2006  
 Daylight Flag: No  
 Target Species: Young of the year walleye

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	33	33.00	33.00	16.35	16.35	16.35	0.50

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**Length Frequency Distribution For EF**

**Standard electrofishing**

(Field work conducted on 10/05/2006)

	<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	-	-
6.00 - 6.49	-	-
6.50 - 6.99	-	3
7.00 - 7.49	-	9
7.50 - 7.99	-	7
8.00 - 8.49	-	2
8.50 - 8.99	-	-
9.00 - 9.49	1	-
9.50 - 9.99	2	-
10.00 - 10.49	2	-
10.50 - 10.99	-	-
11.00 - 11.49	1	-
11.50 - 11.99	-	-
12.00 - 12.99	-	-
13.00 - 13.99	-	-
14.00 - 14.99	2	-
15.00 - 15.99	-	-
16.00 - 16.99	-	-
17.00 - 17.99	-	-
18.00 - 18.99	2	-
19.00 - 19.99	1	-
20.00 - 20.99	1	-
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	12	21
Min. Length	9.37	6.65
Max. Length	20.59	8.07
Mean Length	13.92	7.42
# Measured	12	21
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	'06 0	'05 1	'04 2	'03 3	'02 4	'01 5	'00 6	'99 7	'98 8	'97 9	'96 10	'95 11	'94 12	'93 13	'92 14	<'92 15+
<b>Walleye</b>																			
EF	33	0	0	21	5	1	0	2	2	2	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 walleye electrofishing by Dave Weitzel and Dan Wilfond. Analysis and write up by Dave Weitzel.

Area Signed by user 'daweitze' on 07/16/2007 as approved by Hugh Valiant.

Region Signed by user 'jalauer1' on 07/20/2007

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**Field Notes - General Field**

Lake Tetonka was sampled using standard nighttime boat electrofishing on October 5, 2006 to evaluate the status of the walleye population and determine the presence of young of the year (YOY) walleye. This evaluation is part of an annual assessment of walleye on the Cannon River chain of lakes. Three sites were sampled for 20 minutes each.

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**Discussion**

A total of 33 walleye were sampled in one hour of electrofishing, 21 of which were age-0 fish as determined from scale samples. Catch per effort (CPE) of YOY walleye in 2006 was above the 20-year mean for Lake Tetonka and improved from 2005 when 11 YOY walleye were sampled. Since Lake Tetonka was first evaluated in 1987, CPE of YOY walleye has varied greatly among years (SE=5.14) with a mean of 23 YOY/hr. Natural reproduction appears very limited. Lake Tetonka has frequently been stocked with walleye fry and is currently stocked 3 out of 4 years. Fry stocking appears to contribute greatly to the presence of YOY walleye. With the exception of 2001 when an exceptionally strong natural year-class appears to have occurred, stocked years have had much higher CPE than years with no stocking. Mean CPE for stocked years is 26.5 YOY walleye/hr (SE=10.81) while the mean for years without fry stocking is 15 YOY walleye/hr (SE=26.5). When compared to other lakes in the Cannon River chain, Lake Tetonka consistently produces the higher CPE of YOY walleye than Gorman, Sabre, and lower Sakatah lakes, is similar to production on Upper Sakatah Lake, and produces less YOY walleye than Cannon Lake.

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### **Status Of The Fishery**

Lake Tetonka continues to produce good levels of young of the year walleye when compared to other lakes in the Cannon River chain of lakes. Fry stocking appears to contribute greatly to the presence of YOY walleye as natural reproduction is limited. Sampling in 2006 resulted in above average abundance of YOY walleye and likely represents good fry survival to fingerling size. The abundance of these fingerlings may contribute greatly to the overall walleye fishery and provide abundant angling opportunities in the near future.

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**Approval Dates And Notices**



Date Approved By Waterville Area Fisheries Supervisor: 07/16/2007

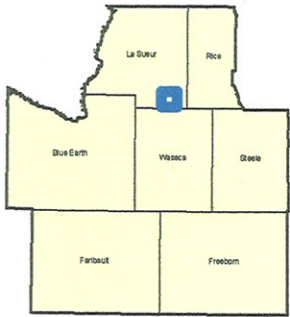
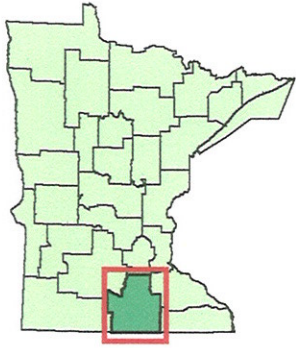
Date Approved By Southern Region Fisheries Manager: 07/20/2007



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# Lake Tetonka Fall Walleye Electrofishing 10/5/2006



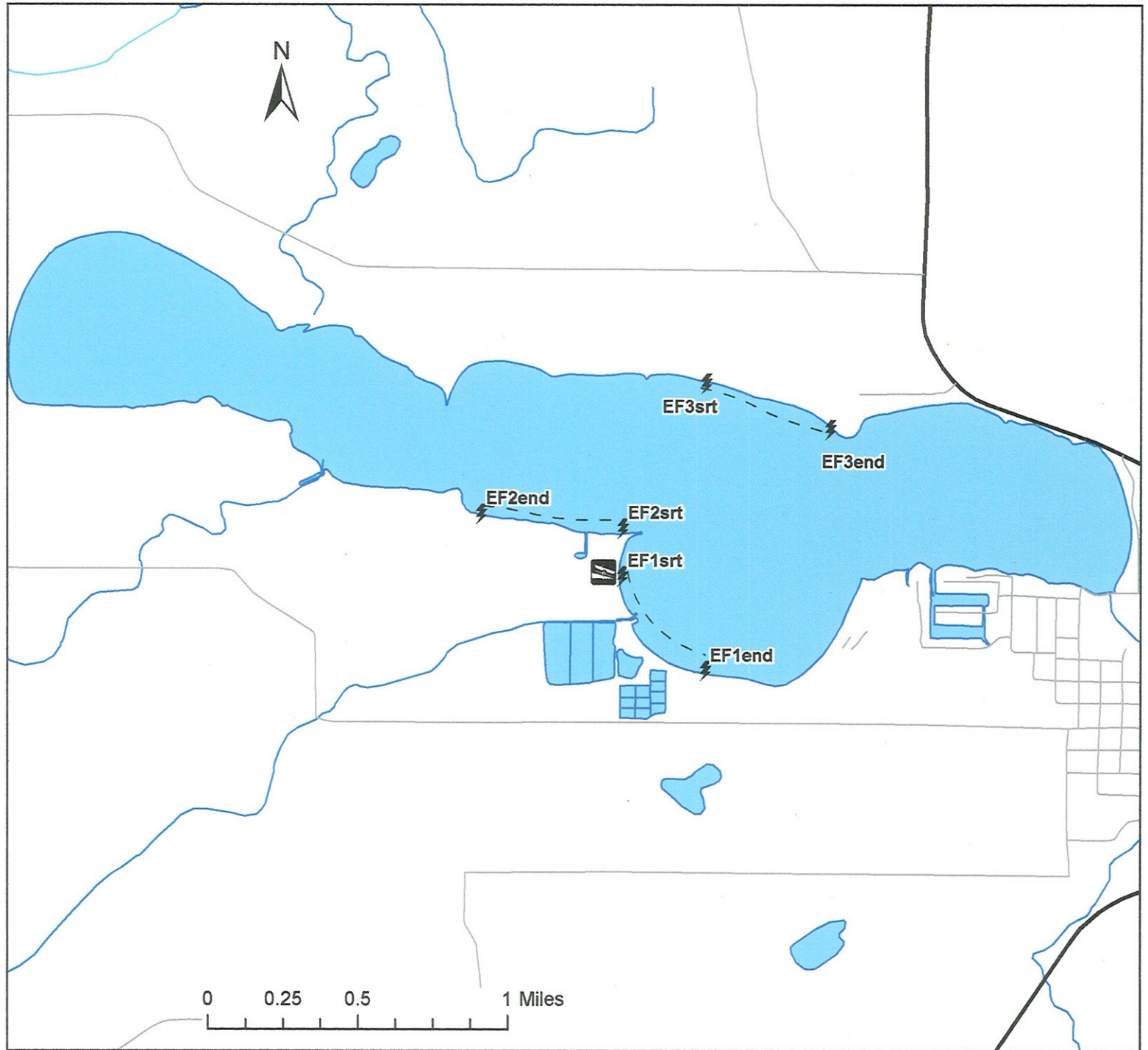
Waterville Fisheries Area

## Legend

-  Water Access Site
-  fallef



Created by  
David Weitzel  
2006



YOY Walleye catch per hour by year (bold print indicates years with no stocking)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
CANNON				283	0	58	13	58	22	141	14	2	3	12	33	4
GORMAN	0	29	114	42	0	17	5	14	1	2	0	8	0	20	3	14
L. SAKATAH	0	13	0	4	0	6	31	67	2	2	4	68	0	20	11	0
SABRE	0	46	1	9	0	1	18	47	4	63	0	28	6	20	16	1
TETONKA	1	38	2	35	3	28	22	19	11	79	51	39	6	21	68	0
U. SAKATAH	0	30	1	6	0	26	56	41	16	61	12	56	0	7	173	1
mean for year	0.2	31.2	23.6	63.2	0.5	22.7	24.2	41.0	9.3	58.0	13.5	33.5	2.5	16.6	50.7	3.3
SE	0.2	5.5	22.6	44.4	0.5	8.3	7.3	8.6	3.5	21.3	7.9	10.6	1.2	2.3	26.2	2.2
N	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6

	2003	2004	2005	2006
CANNON	1	185	24	101
GORMAN	0	8	10	0
L. SAKATAH	1	23	1	7
SABRE	0	35	1	
TETONKA	0	11	2	21
U. SAKATAH	0	50	41	14

	2003	2004	2005	2006
mean for year	0.3	52.0	13.2	28.6
SE	0.2	27.3	6.6	18.4
N	6	6	6	5

