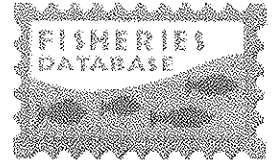




Minnesota Department of Natural Resources  
 Fisheries Management  
 STANDARD LAKE SURVEY REPORT



Lake Name: Gorman  
 DOW Number: 40-0032-00

Survey Type: Special Assessment  
 Survey ID Date: 10/09/2006

**Lake Identification**

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

DNR Sounding Map Number: C1532  
 Alternate Lake Class ID: 43

**Lake Location**

Primary County: Le Sueur

Nearest Town: Le Center

**Legal Descriptions**

Lake Center: Township - 110N Range - 24W Section - 12  
 PLS Section Lake Center: 2674

**All Legal Descriptions:**

Le Sueur County: Township - 110N Range - 24W Sections - 11, 12, 13, 14

**Area Office**

Area Name: Waterville  
 Region Name: Southern

ORG Code: F417  
 Region Number: 4

**Lake Characteristics**

Lake Area (planimetered acres): 499.00  
 GIS Lake Area (acres): 521.11  
 DOW Lake Area (acres): 590.00  
 Littoral Area (acres): 499.00  
 Area in MN (acres): 521.11  
 Maximum Depth (feet): 14.0  
 Mean Depth (feet): N/A

GIS Shoreline Length (miles): 4.90  
 Maximum Fetch (miles): 1.00  
 Fetch Orientation (degrees): 22  
 USGS Quad Map Number: U15c  
 USGS Quad 24K GIS Index: 4129

**Watershed Characteristics**

Major Watershed

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

Minor Watershed

Name: Cannon R  
 Watershed Number: 103  
 Watershed size (acres): 22,898

**Surveys And Investigations**

Initial Survey: 08/14/1968.

Re-Survey: 07/19/2004, 06/28/1999, 07/18/1994, 07/31/1989, 07/05/1983, 11/30/1970.

Population Assessment: 06/18/1992.

Special Assessment: 10/09/2006, 09/26/2005, 09/28/2004, 10/07/2003, 10/09/2002, 11/01/2001,  
 10/02/2000, 10/13/1999, 10/21/1998, 09/24/1997, 10/07/1996, 07/11/1955.

JUL 27 2007

STANDARD LAKE SURVEY REPORT  
SPECIAL ASSESSMENT DATED 10/09/2006 FOR DOW NUMBER 40-0032-00

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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: 10/09/2006  
Last Sampling Date: 10/09/2006  
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	Number per Hour On-Time	Total Weight	Lbs per Hour Run-Time	Lbs per Hour On-Time	Mean Weight
WAE	Walleye	8	8.00	8.00	3.11	3.11	3.11	0.39

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STANDARD LAKE SURVEY REPORT  
SPECIAL ASSESSMENT DATED 10/09/2006 FOR DOW NUMBER 40-0032-00

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**Length Frequency Distribution For EF**

**Standard electrofishing**

(Field work conducted on 10/09/2006)

	<u>WAE</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	-
7.00 - 7.49	-
7.50 - 7.99	1
8.00 - 8.49	-
8.50 - 8.99	-
9.00 - 9.49	1
9.50 - 9.99	1
10.00 - 10.49	-
10.50 - 10.99	3
11.00 - 11.49	-
11.50 - 11.99	1
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	-

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	<u>WAE</u>
Total	8
Min. Length	7.95
Max. Length	13.39
Mean Length	10.56
# Measured	8
No Lengths for	0

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STANDARD LAKE SURVEY REPORT  
SPECIAL ASSESSMENT DATED 10/09/2006 FOR DOW NUMBER 40-0032-00

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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+	
Walleye																				
EF	8	0	0	0	3	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0

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**(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 Survey  
Survey by Dan Wilfond and Craig Berberich

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

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

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### Field Notes - General Field

Gorman Lake was sampled using standard nighttime boat electrofishing on October 9, 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

Only 8 walleye were sampled in one hour of electrofishing and no age-0 fish were captured. Catch per effort (CPE) of YOY walleye in 2006 was below the 20-year mean for Gorman Lake and decreased from 2005 when 10 YOY walleye were sampled. Since Gorman Lake was first evaluated in 1987, CPE of YOY walleye has varied greatly among years (SE=5.81) with a mean of 14 YOY/hr. Natural reproduction appears very limited. Gorman Lake 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. Mean CPE for stocked years is 20 YOY walleye/hr (SE=3.62) while the mean for years without fry stocking is 1 YOY walleye/hr (SE=0.49). When compared to other lakes in the Cannon River chain, Gorman Lake consistently fails to produce YOY walleye and with the exception of 1989 and 1990, CPE has consistently been 20/hr or less.

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### **Status Of The Fishery**

Gorman Lake continues to have poor production of young of the year walleye when compared to other lakes in the Cannon River chain of lakes. Fry stocking appears to contribute to the presence of YOY walleye as natural reproduction is extremely limited, although CPE is much less in Gorman Lake than other lakes in the chain. Sampling in 2006 resulted in zero YOY walleye and likely represents poor fry survival to fingerling size. Lake surveys have indicated that Gorman Lake is not a consistent producer of walleye. Since 1970, gill net (GN) catches of walleye from Gorman Lake have failed to exceed 2/GN, with the exception of 1994 and 1989 when large year-classes of small walleye contributed to the fishery. Consistently poor fry survival appears to limit the walleye fishery of Gorman Lake.

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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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(Standard Lake Survey Report revision: 07/09/2007-RJE. Printed on 07/24/2007 at 1:24:50PM )

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# Gorman Lake Fall Walleye Electrofishing 10/9/2006



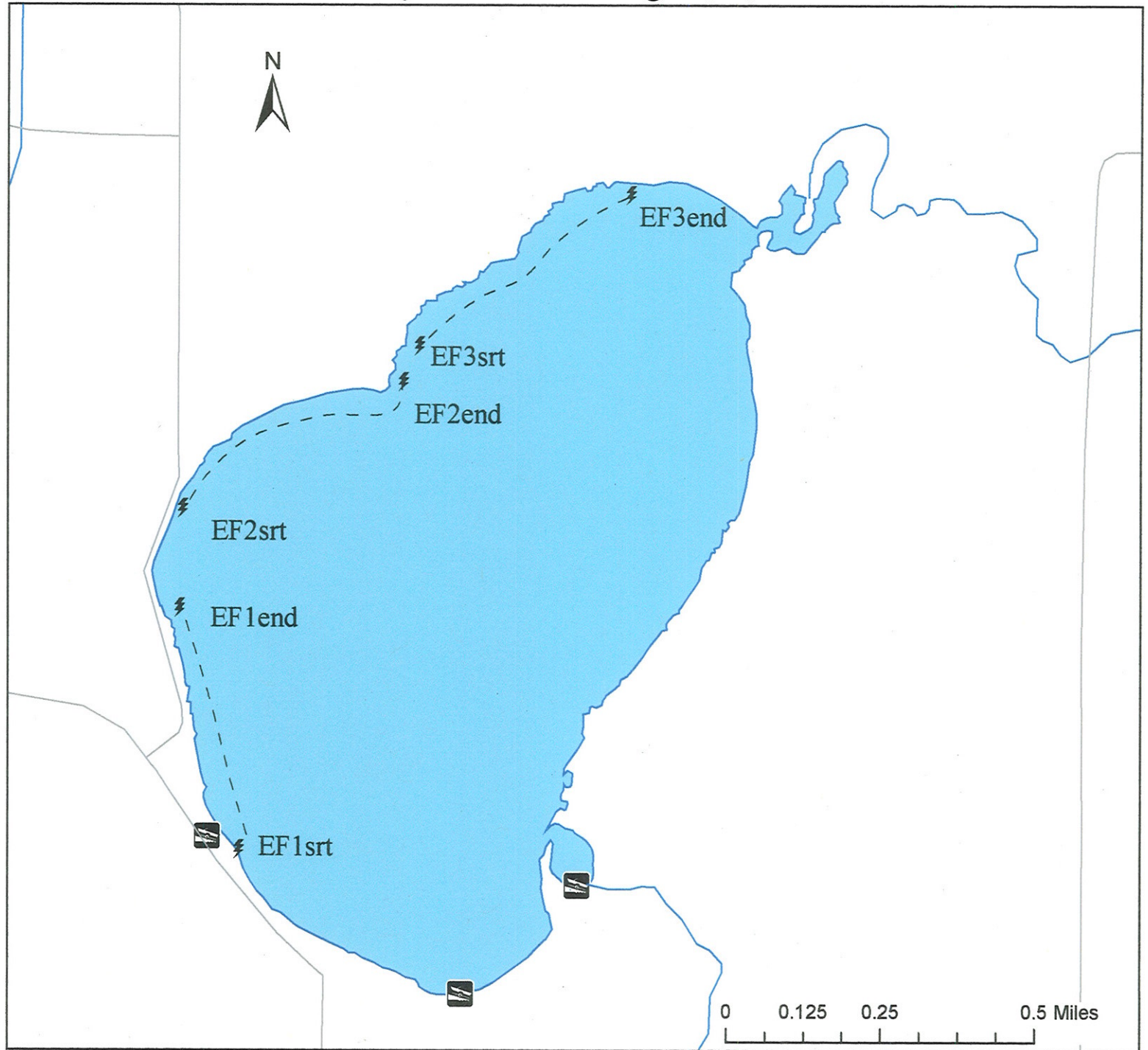
Waterville Fisheries Area

## Legend

-  Water Access Site
-  EF end points



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	<b>0</b>	58	13	58	22	141	14	2	3	12	33	4
GORMAN	<b>0</b>	29	114	42	<b>0</b>	17	5	14	1	2	0	8	<b>0</b>	20	3	14
L. SAKATAH	<b>0</b>	13	0	4	<b>0</b>	6	31	67	2	2	4	68	<b>0</b>	20	11	0
SABRE	<b>0</b>	46	1	9	<b>0</b>	1	18	47	4	63	0	28	6	20	16	1
TETONKA	<b>1</b>	38	2	35	3	28	22	19	11	79	51	39	6	21	68	0
U. SAKATAH	<b>0</b>	30	1	6	<b>0</b>	26	56	41	16	61	12	56	<b>0</b>	7	173	1
mean for year	<b>0.2</b>	31.2	23.6	63.2	<b>0.5</b>	22.7	24.2	41.0	9.3	58.0	13.5	33.5	2.5	16.6	50.7	3.3
SE	<b>0.2</b>	5.5	22.6	44.4	<b>0.5</b>	8.3	7.3	8.6	3.5	21.3	7.9	10.6	1.2	2.3	26.2	2.2
N	<b>5</b>	5	5	6	<b>6</b>	6	6	6	6	6	6	6	6	6	6	6

	2003	2004	2005	2006
CANNON	1	185	24	101
GORMAN	<b>0</b>	8	10	0
L. SAKATAH	1	23	1	7
SABRE	<b>0</b>	35	1	
TETONKA	<b>0</b>	11	2	21
U. SAKATAH	<b>0</b>	50	41	14
mean for year	<b>0.3</b>	52.0	13.2	28.6
SE	<b>0.2</b>	27.3	6.6	18.4
N	<b>6</b>	6	6	5

CPE of YOY Walleye from Gorman Lake

