



Minnesota Department of Natural Resources  
 Fisheries Management  
 STANDARD LAKE SURVEY REPORT



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

Survey Type: Natural Reproduction Check  
 Survey ID Date: 10/25/2007

**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 Access**

(Information based on Re-Survey dated 07/19/2004)

| Station ID | Ownership | Public Use         | Type     | Location / Comments       |
|------------|-----------|--------------------|----------|---------------------------|
| AC - 1     | DNR       | Open to Public use | Concrete | SOUTH SHORE- STATE OWNED. |

(Data excludes records where public use is not designated or is designated "No Public Use")

**Lake Characteristics**

|  |                                    |
|--|------------------------------------|
| Lake Area (planimetered acres): 499.00 | GIS Shoreline Length (miles): 4.90 |
| GIS Lake Area (acres): 521.11          | Maximum Fetch (miles): 1.00        |
| DOW Lake Area (acres): 590.00          | Fetch Orientation (degrees): 22    |
| Littoral Area (acres): 499.00          | USGS Quad Map Number: U15c         |
| Area in MN (acres): 521.11             | USGS Quad 24K GIS Index: 4129      |
| Maximum Depth (feet): 14.0             |                                    |
| Mean Depth (feet): N/A                 |                                    |

**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.

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**Surveys And Investigations (Continued)**

**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.  
**Natural Reproduction Check:** 10/25/2007.

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Electrofishing Catch Summary for EE

Standard electrofishing

Total run-time for all stations: 01:00:00  
 Total on-time for all stations: 00:57:35  
 First Sampling Date: 10/25/2007  
 Last Sampling Date: 10/25/2007  
 Daylight Flag: No  
 Target Species: All juveniles 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 | 21                 | 21.00                    | 21.88   | 4.19                       | 4.19                  | 4.37    | 0.20        |

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**Length Frequency Distribution For EE**

**Standard electrofishing**

(Field work conducted on 10/25/2007)

|               | <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   | 3          |
| 7.50 - 7.99   | 9          |
| 8.00 - 8.49   | 4          |
| 8.50 - 8.99   | 1          |
| 9.00 - 9.49   | -          |
| 9.50 - 9.99   | -          |
| 10.00 - 10.49 | 1          |
| 10.50 - 10.99 | 1          |
| 11.00 - 11.49 | -          |
| 11.50 - 11.99 | 1          |
| 12.00 - 12.99 | 1          |
| 13.00 - 13.99 | -          |
| 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> |
|----------------|------------|
| Total          | 21         |
| Min. Length    | 7.36       |
| Max. Length    | 12.09      |
| Mean Length    | 8.48       |
| # Measured     | 21         |
| No Lengths for | 0          |

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**Age Class Frequency Distribution**

| Species<br>and<br>Gear (1) | Number of Fish (2) |       |        | Number of Fish in Year Class ('yy) and Age Class |          |          |          |          |          |          |          |          |          |           |           |           |           |           |             |
|----------------------------|--------------------|-------|--------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-------------|
|                            | Aged               | Keyed | Unaged | '07<br>0   | '06<br>1 | '05<br>2 | '04<br>3 | '03<br>4 | '02<br>5 | '01<br>6 | '00<br>7 | '99<br>8 | '98<br>9 | '97<br>10 | '96<br>11 | '95<br>12 | '94<br>13 | '93<br>14 | <'93<br>15+ |
| Walleye                    |                    |       |        |  |          |          |          |          |          |          |          |          |          |           |           |           |           |           |             |
| EF                         | 19                 | 1     | 1      | 0  | 18       | 2        | 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**

Field work by Sean Sisler and staff.

Report by Marc Bacigalupi

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

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**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.

In most years, walleye fry stocking appears to be the most effective way to establish a year-class. 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 Gorman is 1 per electrofishing hour. Even in 2001 when significant walleye natural reproduction occurred in the Cannon River chain of lakes, the catch rate in Gorman was only 3 /hr. The average catch rate in the 14 stocked years since 1987 is 20 with standard error of 3.6.

Though the 2006 year-class of walleye were not targeted they were observed at roughly 18/on-time hr. Of note, this year-class was not successfully sampled in the fall of 2006, none were captured.

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**Status Of The Fishery**

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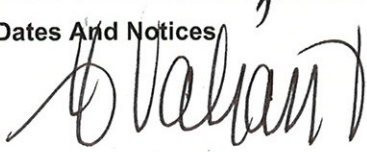
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Approval Dates And Notices



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

Date Approved By Southern Region Fisheries Manager: Jan

4/30/2008



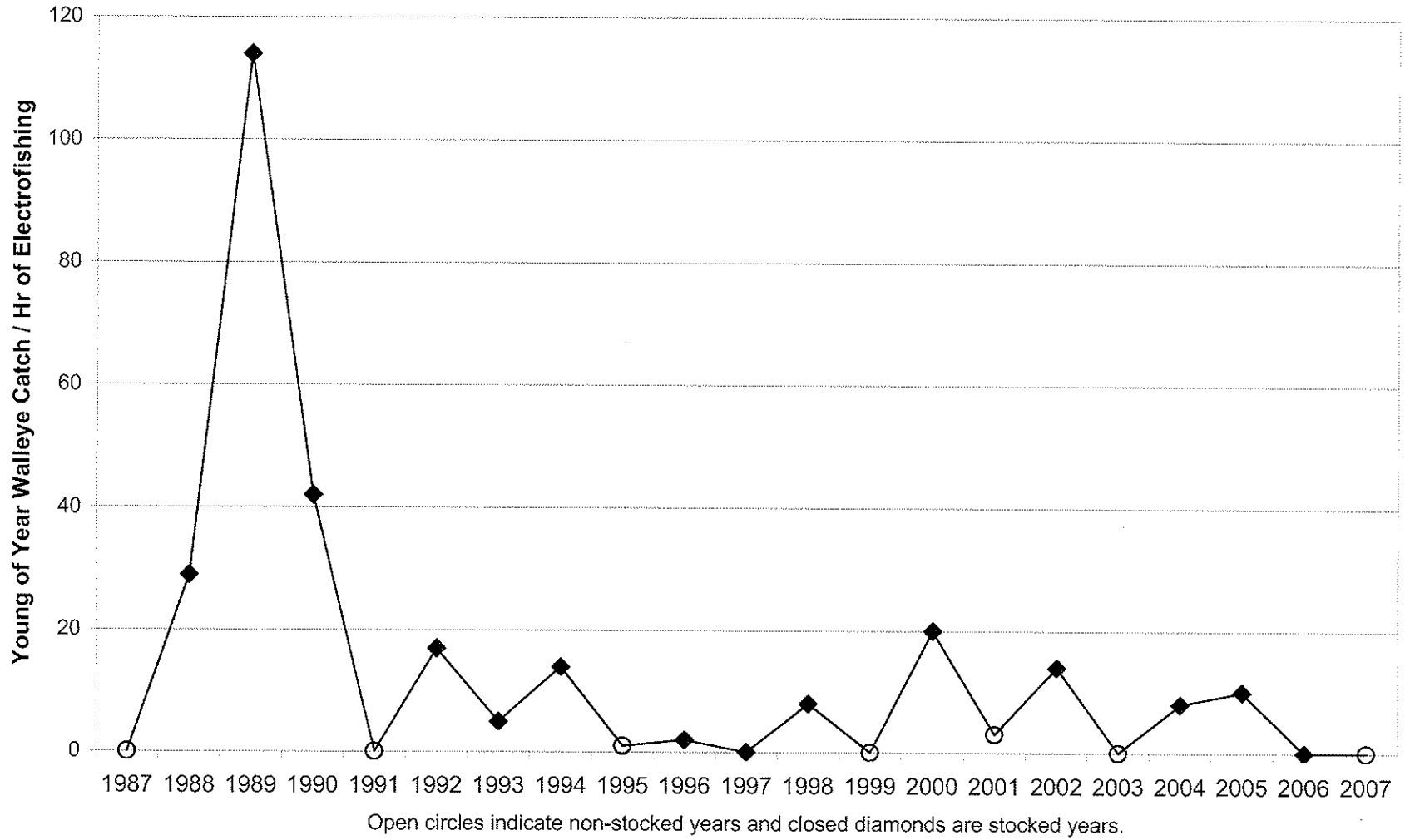
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# GORMAN LAKE



# Cannon River Chain of Lakes

