



Minnesota Department of Natural Resources  
 Fisheries Management  
 STANDARD LAKE SURVEY REPORT



Lake Name: Cedar

Survey Type: Population Assessment

DOW Number: 66-0052-00

Survey ID Date: 08/04/2008

**Lake Identification**

Alternate Lake Name: N/A  
 Primary Lake Class ID: 24

DNR Sounding Map Number: C0505  
 Alternate Lake Class ID: 24

**Lake Location**

Primary County: Rice

Nearest Town: Warsaw

**Legal Descriptions**

Lake Center: Township - 110N Range - 22W Section - 35  
 PLS Section Lake Center: 11002235

**All Legal Descriptions:**

Rice County: Township - 110N Range - 22W Sections - 25, 26, 27, 34, 35, 36

**Area Office**

Area Name: Waterville  
 Region Name: Southern

ORG Code: F417  
 Region Number: 4

**Lake Access**

(Information based on Re-Survey dated 08/05/1996)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	NORTH SHORE OF EAST BAY; OFF HWY 38.

**Lake Characteristics**

Lake Area (planimetered acres): 804.00	GIS Shoreline Length (miles): 11.92
GIS Lake Area (acres): 885.51	Maximum Fetch (miles): 1.80
DOW Lake Area (acres): 927.00	Fetch Orientation (degrees): 315
Littoral Area (acres): 673.00	USGS Quad Map Number: U16c
Area in MN (acres): 885.51	USGS Quad 24K GIS Index: 4131
Maximum Depth (feet): 42.0	
Mean Depth (feet): N/A	

**Watershed Characteristics**

Major Watershed

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

Minor Watershed

Name: Devil Cr  
 Watershed Number: 90  
 Watershed size (acres): 12,962

**Surveys And Investigations**

Re-Survey: 08/06/2001, 08/05/1996, 06/19/1991, 08/03/1981.

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**Surveys And Investigations (Continued)**

**Population Assessment:** 08/04/2008, 08/11/1986.

**Special Assessment:** 08/28/2006, 08/04/2004, 05/10/2004, 10/02/2003, 05/16/2002.

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**STANDARD LAKE SURVEY REPORT**  
**POPULATION ASSESSMENT DATED 08/04/2008 FOR DOW NUMBER 66-0052-00**

**Net Catch Summary by Numbers for GN**

Standard gill net sets

Number of Sets: 10  
 First Set Date: 08/04/2008  
 Last Lift Date: 08/07/2008  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BLB	Black Bullhead	1	0.10	2.50	10.46	44.95
BLC	Black Crappie	608	60.80	2.50	6.91	16.50
BLG	Bluegill	52	5.20	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	2	0.20	0.20	0.50	0.80
BRB	Brown Bullhead	2	0.20	0.39	0.83	2.00
CAP	Common Carp	8	0.80	0.33	1.00	3.00
GOS	Golden Shiner	3	0.30	0.25	0.50	1.54
LMB	Largemouth Bass	3	0.30	0.25	0.50	0.83
NOP	Northern Pike	17	1.70	1.50	3.75	7.29
WAE	Walleye	16	1.60	1.17	2.82	6.33
WHC	White Crappie	91	9.10	0.67	2.65	10.38
YEB	Yellow Bullhead	15	1.50	0.50	2.00	7.51
YEP	Yellow Perch	11	1.10	2.00	10.50	27.94
Total Fish/Set:			82.90	* Quartiles for Number Per Set		

**Net Catch Summary by Weight for GN**

Standard gill net sets

Abbr	Species	Total Weight (Pounds)	Pounds Per Set	Mean Weight	Quartiles for Lake Class 24*		
					25%	50%	75%
BLB	Black Bullhead	0.57	0.06	0.57	0.29	0.44	0.66
BLC	Black Crappie	59.96	6.00	0.10	0.15	0.20	0.26
BLG	Bluegill	3.44	0.34	0.07	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	8.55	0.85	4.27	2.44	3.25	4.21
BRB	Brown Bullhead	2.50	0.25	1.25	0.50	0.75	1.00
CAP	Common Carp	46.25	4.62	5.78	1.87	3.41	5.24
GOS	Golden Shiner	0.23	0.02	0.08	0.10	0.10	0.13
LMB	Largemouth Bass	3.96	0.40	1.32	0.40	0.60	1.00
NOP	Northern Pike	54.02	5.40	3.18	2.02	2.68	3.50
WAE	Walleye	37.12	3.71	2.32	1.20	1.81	2.69
WHC	White Crappie	5.17	0.52	0.06	0.17	0.24	0.33
YEB	Yellow Bullhead	14.67	1.47	0.98	0.46	0.61	0.82
YEP	Yellow Perch	1.04	0.10	0.09	0.10	0.13	0.18
Total Pounds Fish/Set:			23.75	* Quartiles for Mean Weight			

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**Length Frequency Distribution For GN**

**Standard gill net sets**

(Field work conducted between 08/04/2008 and 08/07/2008)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>BRB</u>	<u>CAP</u>	<u>GOS</u>	<u>LMB</u>	<u>NOP</u>	<u>WAE</u>	<u>WHC</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	3	17	-	-	-	-	-	-	-	1	-	-
4.00 - 4.49	-	153	8	-	-	-	-	-	-	-	19	-	-
4.50 - 4.99	-	161	14	-	-	-	-	-	-	-	34	-	-
5.00 - 5.49	-	13	9	-	-	-	-	-	-	-	25	-	1
5.50 - 5.99	-	33	4	-	-	-	2	-	-	-	9	-	5
6.00 - 6.49	-	42	-	-	-	-	1	-	-	-	2	-	4
6.50 - 6.99	-	30	-	-	-	-	-	-	-	-	-	-	1
7.00 - 7.49	-	64	-	-	-	-	-	-	-	-	-	-	-
7.50 - 7.99	-	61	-	-	-	-	-	-	-	-	-	1	-
8.00 - 8.49	-	12	-	-	-	-	-	-	-	-	-	-	-
8.50 - 8.99	-	-	-	-	-	-	-	-	-	-	-	1	-
9.00 - 9.49	-	-	-	-	-	-	-	-	-	-	-	-	-
9.50 - 9.99	-	-	-	-	-	-	-	-	-	-	-	1	-
10.00 - 10.49	1	-	-	-	-	-	-	-	-	-	-	1	-
10.50 - 10.99	-	-	-	-	-	-	-	-	-	-	-	-	-
11.00 - 11.49	-	-	-	-	-	-	-	-	-	-	-	2	-
11.50 - 11.99	-	-	-	-	-	-	-	-	-	-	-	1	-
12.00 - 12.99	-	-	-	-	1	-	-	1	-	-	-	1	-
13.00 - 13.99	-	-	-	-	-	-	-	1	-	-	-	7	-
14.00 - 14.99	-	-	-	-	1	-	-	1	-	1	-	-	-
15.00 - 15.99	-	-	-	-	-	-	-	-	-	1	-	-	-
16.00 - 16.99	-	-	-	-	-	1	-	-	-	5	-	-	-
17.00 - 17.99	-	-	-	-	-	-	-	-	-	-	-	-	-
18.00 - 18.99	-	-	-	1	-	2	-	-	-	3	-	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-	2	-	-	-
20.00 - 20.99	-	-	-	-	-	-	-	-	-	1	-	-	-
21.00 - 21.99	-	-	-	-	-	1	-	-	4	1	-	-	-
22.00 - 22.99	-	-	-	-	-	1	-	-	1	1	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	2	1	-	-	-
24.00 - 24.99	-	-	-	-	-	1	-	-	3	-	-	-	-
25.00 - 25.99	-	-	-	-	-	1	-	-	2	-	-	-	-
26.00 - 26.99	-	-	-	1	-	-	-	-	2	-	-	-	-
27.00 - 27.99	-	-	-	-	-	-	-	-	1	-	-	-	-
28.00 - 28.99	-	-	-	-	-	-	-	-	1	-	-	-	-
29.00 - 29.99	-	-	-	-	-	-	-	-	1	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	1	-	-	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-	-	-	-	-

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>BRB</u>	<u>CAP</u>	<u>GOS</u>	<u>LMB</u>	<u>NOP</u>	<u>WAE</u>	<u>WHC</u>	<u>YEB</u>	<u>YEP</u>
Total	1	572	52	2	2	8	3	3	17	16	90	15	11
Min. Length	10.08	3.94	3.66	18.58	12.52	16.57	5.71	12.80	21.10	14.92	3.98	7.72	5.43
Max. Length	10.08	8.31	5.91	26.57	14.29	31.69	6.10	14.57	29.13	23.03	6.14	13.98	6.54
Mean Length	10.08	5.83	4.51	22.58	13.41	22.29	5.93	13.46	24.60	18.46	4.91	11.81	5.98
# Measured	1	426	52	2	2	8	3	3	17	16	90	15	11
No Lengths for	0	182	0	0	0	0	0	0	0	0	1	0	0

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**Discussion**

Cedar Lake in Rice County is an 804 acre lake north of Warsaw. A DNR-owned public access is located on the north shore off Rice County road 38. Eurasian watermilfoil was found in the lake in 2001, the first incidence of EWM in south central Minnesota. Boaters should be sure to remove all aquatic vegetation from boats, trailers, and equipment and drain all water when leaving Cedar Lake to prevent the spread of Eurasian watermilfoil to other lakes.

Cedar Lake was surveyed the week of August 4th, 2008 to monitor the fish community. Cedar Lake was part of a statewide study on the efficiency of stocking walleye fry, fryling, fingerlings into class 24 lakes. Only gill netting was conducted in this assessment.

Black crappie gill net abundance increased from 3.2 in 2001 to 60.8 in 2008. White crappie gill net abundance increased from 0.8 in 2001 to 9.1 in 2008. Northern pike gill net abundance increased from 0.2 in 2001 to 1.7 in 2008. Walleye gill net abundance decreased from 2.8 in 2001 to 1.6 in 2008. Bluegill gill net abundance decreased from 21.2 in 2001 to 5.2 in 2008. Yellow perch gill net abundance decreased from 5.8 in 2001 to 1.1 in 2008. Three largemouth bass were taken from ten gill net sets; gill nets do not reliably estimate bass abundance.

Other fish caught in the survey include golden shiner, black bullhead, brown bullhead, yellow bullhead, bowfin (dogfish), and common carp.

Anglers can help maintain or improve the quality of fishing by practicing selective harvest. Selective harvest allows for the harvest of smaller fish for table fare, but encourages release of medium- to large-sized fish. Releasing these fish can help maintain balance in the fish community in Cedar Lake and provide anglers the opportunity to catch more and larger fish in the future.

Shoreline areas on the land and into the shallow water provide essential habitat for fish and wildlife that live in or near Minnesota's lakes. Overdeveloped shorelines can't support the fish, wildlife, and clean water that are associated with natural undeveloped lakes.

Shoreline habitat consists of aquatic plants, woody plants and natural lake bottom soils. Plants in the water and at the water's edge provide habitat, prevent erosion and absorb excess nutrients. Shrubs, trees, and woody debris such as fallen trees or limbs provide good habitat both above and below the water and should be left in place. By leaving a buffer strip of natural vegetation along the shoreline, property owners can reduce erosion, help maintain water quality, and provide habitat and travel corridors for wildlife.

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### **Status Of The Fishery**

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Approval Dates And Notices

*to Valiano*

Date Approved By Waterville Area Fisheries Supervisor: 05/28/2009

Date Approved By Southern Region Fisheries Manager: 6/9/09 JF (JP)



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Standard Lake Survey Report revision: 04/10/2009-RJE. Data dated 05/28/2009 at 1:29:20PM