



Minnesota Department of Natural Resources
 Fisheries Management
 STANDARD LAKE SURVEY REPORT



Lake Name: Cedar
 DOW Number: 66-0052-00

Survey Type: Special Assessment
 Survey ID Date: 08/28/2006

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: Faribault

Legal Descriptions

Lake Center: Township - 110N Range - 22W Section - 35
 PLS Section Lake Center: 3187

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 Population Assessment dated 08/11/1986)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	Unknown		Other	NORTH SHORE OF EAST BAY OFF HWY 38. STATE OWNED PUBLIC ACCESS ON NORTHEAST CORNER OF EAST BAY OF LAKE.

Lake Characteristics

Lake Area (planimetered acres): 804.00
 GIS Lake Area (acres): 885.51
 DOW Lake Area (acres): 927.00
 Littoral Area (acres): 673.00
 Area in MN (acres): 804.00
 Maximum Depth (feet): 42.0
 Mean Depth (feet): N/A

GIS Shoreline Length (miles): 11.92
 Maximum Fetch (miles): 1.80
 Fetch Orientation (degrees): 315
 USGS Quad Map Number: U16c
 USGS Quad 24K GIS Index: 4131

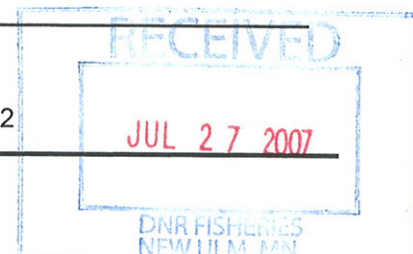
Watershed Characteristics

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



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Surveys And Investigations

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

Population Assessment: 08/11/1986.

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

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Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 10
 First Set Date: 08/28/2006
 Last Lift Date: 08/31/2006
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BLC	Black Crappie	426	42.60	2.50	6.91	16.50
BLG	Bluegill	89	8.90	N/A	N/A	N/A
CAP	Common Carp	16	1.60	0.33	1.00	3.00
GOS	Golden Shiner	4	0.40	0.25	0.50	1.54
LMB	Largemouth Bass	4	0.40	0.25	0.50	0.83
NOP	Northern Pike	4	0.40	1.50	3.75	7.29
WAE	Walleye	6	0.60	1.17	2.82	6.33
WHC	White Crappie	59	5.90	0.67	2.65	10.38
WTS	White Sucker	13	1.30	0.40	1.00	2.17
YEB	Yellow Bullhead	1	0.10	0.50	2.00	7.51
YEP	Yellow Perch	19	1.90	2.00	10.50	27.94
Total Fish/Set:			64.10	* 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%
BLC	Black Crappie	0.00	0.00	0.00	0.15	0.20	0.26
BLG	Bluegill	0.00	0.00	0.00	N/A	N/A	N/A
CAP	Common Carp	0.00	0.00	0.00	1.87	3.41	5.24
GOS	Golden Shiner	0.00	0.00	0.00	0.10	0.10	0.13
LMB	Largemouth Bass	0.00	0.00	0.00	0.40	0.60	1.00
NOP	Northern Pike	9.28	0.93	2.32	2.02	2.68	3.50
WAE	Walleye	8.27	0.83	1.38	1.20	1.81	2.69
WHC	White Crappie	0.00	0.00	0.00	0.17	0.24	0.33
WTS	White Sucker	0.00	0.00	0.00	1.55	2.00	2.38
YEB	Yellow Bullhead	0.00	0.00	0.00	0.46	0.61	0.82
YEP	Yellow Perch	5.74	0.57	0.30	0.10	0.13	0.18
Total Pounds Fish/Set:			2.33	* Quartiles for Mean Weight			

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Length Frequency Distribution For GN

Standard gill net sets

(Field work conducted between 08/28/2006 and 08/31/2006)

	<u>NOP</u>	<u>WAE</u>	<u>YEP</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	-	-	14
6.50 - 6.99	-	-	2
7.00 - 7.49	-	-	-
7.50 - 7.99	-	1	-
8.00 - 8.49	-	1	-
8.50 - 8.99	-	-	-
9.00 - 9.49	-	-	-
9.50 - 9.99	-	1	-
10.00 - 10.49	-	-	-
10.50 - 10.99	-	-	-
11.00 - 11.49	-	-	-
11.50 - 11.99	-	-	-
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	1	-	1
20.00 - 20.99	-	-	-
21.00 - 21.99	1	1	-
22.00 - 22.99	-	1	-
23.00 - 23.99	1	-	-
24.00 - 24.99	1	-	-
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>NOP</u>	<u>WAE</u>	<u>YEP</u>
Total	4	6	19
Min. Length	19.37	7.91	5.94
Max. Length	24.61	22.09	19.37
Mean Length	22.11	13.61	6.95
# Measured	4	6	19
No Lengths for	0	0	0

Survey Crew Notes

Survey by Waterville Research Staff as part of walleye study 635.

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

Field Notes - General Field

Cedar Lake was test netting using 10 standard gill net sets from 8-28 to 8-31-2006 as part of a research evaluation of the walleye stocking program.

Discussion

A special assessment was conducted on Cedar Lake in August 2006 as part of an ongoing research project on assessing the contribution of walleye fingerling stocking. Gill net catch per effort was determined for all species captured, but additional data such as length was only collected from walleye, yellow perch, and northern pike. Black crappies were the most abundant species in the gill net at 42.6/gill net. Bluegills were captured at a rate of 8.9/gill net. White crappies were captured at a rate of 5.9/gill net. Yellow perch were captured in low abundance at 1.9/gill net. Common carp, golden shiner, largemouth bass, and yellow bullheads were captured in low abundance.

Prior to 2003, walleye fry stocking had been used on Cedar Lake with limited success. Approximately 7,400 walleye fingerlings were stocked in 2003 and an additional 20,190 fingerlings were stocked in 2004. Despite these stocking, walleye remain rare as the gill net catch was 0.6/ gill net. Walleye ranged in length from 7.9 to 22 inches with a mean of 13.6 inches. Northern pike were historically rare in Cedar Lake, never exceeding 3/gill net since the first assessment in 1981. Northern pike fry have been stocked in Cedar Lake 4 of the past 5 years. Despite this effort, northern pike remain rare at 0.4/ gill net. Pike ranged from 19.3 to 24.6 inches long.

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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: *[Signature]*
8/9/2007



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(Standard Lake Survey Report revision: 07/09/2007-RJE. Printed on 07/24/2007 at 9:28:44AM)

SUBREPORTS WITH NO DATA

(This page is not part of the Standard Lake Survey Report and should be discarded)

Lake Name: Cedar
DOW Number: 66-0052-00

Survey Type: Special Assessment
Survey ID Date: 08/28/2006

Survey Status: Area Signed

The following 20 report components are not included in this report:

1. Current Water Level
2. Benchmark And Gauge Descriptions / Locations
3. Water Level History
4. Lake Inlets
5. Additional Inlet Information
6. Lake Outlets
7. Additional Outlet Information
8. Water Control Structure (Dam)
9. Surrounding Watershed Characteristics And Shoreline Characteristics
10. Resorts And Campgrounds
11. Fish Spawning Conditions
12. Erosion And Pollution
13. Fish Diseases And Parasites
14. Aquatic Vegetation And Shoalwater Substrates
15. Dissolved Oxygen And Temperature Profile Of Lake Water
16. Field Measurements Of Water Quality
17. Laboratory Analysis Of Water Chemistry
18. Length At Capture With Last Incremental Length*
19. Back-Calculated Lengths
20. Age Class Frequency Distributions

* In reference to the Length At Capture With Last Incremental Length report, the following criteria must be met for a report to be generated:

1. The fish species must have an assigned body scale constant.
2. Fish must have an "official" age assigned.
3. Fish must have a digitized measurement marked for back calculation use.

Note: The data source for Length and Age Class Frequency Distribution tables is updated twice daily - once at noon and once overnight. Any changes to the data made before noon on 07/24/2007 may not be reflected in the Distribution tables until after 12:30PM on 07/24/2007.

Cedar Lake 66-0052 Sample Site 8/28/2006



Waterville Fisheries Area

Legend

- Gill Nets



Created by
Dave Weitzel
2006

