

Lake Name: Cedar  
DOW Number: 46-0121-00

Survey Type: Standard Survey  
Survey ID Date: 06/06/2022

**Lake Identification**

Alternate Lake Name: N/A  
Primary Lake Class ID: 43  
DNR Sounding Map Number: N/A  
Alternate Lake Class ID: N/A

**Lake Location**

Primary County: Martin  
Nearest Town: Trimont

**Legal Descriptions**

Lake Center: Township - 104N Range - 32W Section - 30  
PLS Section Lake Center: 10403230

**All Legal Descriptions:**

Martin County: Township - 103N Range - 33W Section - 1  
Township - 104N Range - 32W Sections - 19, 30  
Township - 104N Range - 33W Sections - 24, 25, 36

**Area Office**

Area Name: Windom  
Region Name: Southern  
ORG Code: F418  
Region Number: 4

**Lake Access**

(Information based on Re-Survey dated 06/19/1995)

Station ID	Ownership	Public Use	Type	Location / Comments
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(Data excludes records where public use is not designated or is designated "No Public Use")

**Lake Characteristics**

Lake Area (planimetered acres): 710.00	GIS Shoreline Length (miles): 9.50
GIS Lake Area (acres): 706.87	Maximum Fetch (miles): 2.90
DOW Lake Area (acres): 726.00	Fetch Orientation (degrees): 45
Littoral Area (acres): 706.87	USGS Quad Map Number: W11c
Area in MN (acres): 706.87	USGS Quad 24K GIS Index: 4521
Maximum Depth (feet): 7.0	
Mean Depth (feet): N/A	

**Watershed Characteristics**

**Major Watershed**

Name: Blue Earth River  
Watershed Number: 30  
Watershed size (acres): 777,240

**Minor Watershed**

Name: Cedar L  
Watershed Number: 78  
Watershed size (acres): 10,025

**Surveys and Investigations**

**Initial Survey:** 06/16/1986.  
**Re-Survey:** 06/08/2004, 06/19/1995.  
**Population Assessment:** 06/09/2014, 07/12/2010, 06/12/2000, 07/01/1991.  
**Special Assessment:** 04/06/1995, 06/18/1957.  
**Winter Kill Assessment:** 04/17/2014.  
**Dissolved Oxygen Check:** 02/11/2016, 02/24/2015, 01/03/2014, 01/08/2013, 12/28/2012, 01/11/2012, 12/29/2010, 01/12/2010.  
**Standard Survey:** 06/04/2018.  
**Targeted Survey:** 02/03/2020, 01/10/2019, 08/13/2018, 06/25/2018, 01/18/2018.

**Water Level History - Readings**

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	06/10/2014	Normal	-4.80	Above or below Benchmark
	07/15/2010	High	2.80	Above or below Benchmark

**Water Level History - Station Summary**

Station ID	Minimum Level		Maximum Level		Range (feet)	Average Level (feet)	Reading Type (and number of readings)
	Feet	Date	Feet	Date			
BM - 1	-4.80	06/10/2014	2.80	07/15/2010	7.60	-1.00	Above or below Benchmark (2)

**Dissolved Oxygen and Temperature Profile of Lake Water**

Station ID	Sampling Date	Bottom Depth (Feet)	Sample Depth (Feet)	Water Temperature (°F)	Dissolved Oxygen (ppm)
WQ - 1	06/07/2022	5.5	Surface	67.6	9.5
			1.0	67.8	9.1
			2.0	67.8	9.1
			3.0	67.8	9.1
			4.0	67.6	9.0
			5.0	67.8	9.0
			5.5	67.5	8.4

**Field Measurements of Water Quality**

Station ID	Sampling Date	Sample Depth (Feet)	Secchi Depth (Feet)	Field pH	Alkalinity (ppm)	Water Color	Color Cause
WQ - 1	06/07/2022	Surface	1.3	8.50	180	Green	Algae

**Net Catch Summary by Numbers for GN**

Standard gill net sets

Number of Sets: 3  
 First Set Date: 06/06/2022  
 Last Lift Date: 06/09/2022  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 <sup>1</sup>		
				25%	50%	75%
BIB	Bigmouth Buffalo	18	6.00	0.75	2.58	6.96
BLB	Black Bullhead	548	182.67	30.34	75.58	150.62
BLC	Black Crappie	48	16.00	1.41	3.71	13.75
CAP	Common Carp	123	41.00	1.00	3.33	13.75
FRD	Freshwater Drum	6	2.00	0.50	2.56	8.33
GOS	Golden Shiner	3	1.00	0.50	1.00	2.58
NOP	Northern Pike	21	7.00	1.08	3.00	8.00
WAE	Walleye	11	3.67	2.28	6.83	18.06
WHC	White Crappie	1	0.33	0.50	2.00	8.42
WTS	White Sucker	12	4.00	0.81	2.33	6.50
YEP	Yellow Perch	8	2.67	2.65	8.00	25.00
Total Fish/Set:			266.33	<sup>1</sup> 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 <sup>2</sup>	Quartiles for Lake Class 43 <sup>1</sup>		
					25%	50%	75%
BIB	Bigmouth Buffalo	30.48	10.16	1.69	N/A	N/A	N/A
BLB	Black Bullhead	72.55	24.18	0.24	0.17	0.26	0.39
BLC	Black Crappie	6.78	2.26	0.14	0.16	0.25	0.35
CAP	Common Carp	163.93	54.64	1.33	0.81	1.98	3.70
FRD	Freshwater Drum	4.41	1.47	0.73	0.40	0.82	1.67
GOS	Golden Shiner	0.00	0.00	N/A	0.08	0.10	0.11
NOP	Northern Pike	67.22	22.41	3.20	1.82	2.50	3.35
WAE	Walleye	22.61	7.54	2.06	1.01	1.53	2.30
WHC	White Crappie	0.12	0.04	0.12	0.15	0.21	0.32
WTS	White Sucker	12.84	4.28	1.07	0.93	1.58	2.02
YEP	Yellow Perch	1.42	0.47	0.18	0.13	0.21	0.31
Total Pounds Fish/Set:			127.45	<sup>1</sup> Quartiles for Mean Weight			

<sup>2</sup> Mean Weights are based on measured fish counts only.

**Net Catch Summary by Numbers for TN**

Standard 3/4-in mesh, double frame trap net sets

Number of Sets: 12  
 First Set Date: 06/06/2022  
 Last Lift Date: 06/09/2022  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 <sup>1</sup>		
				25%	50%	75%
BIB	Bigmouth Buffalo	6	0.50	0.17	0.38	1.04
BLB	Black Bullhead	1,047	87.25	11.50	42.00	132.61
BLC	Black Crappie	235	19.58	1.17	4.88	20.50
BLG	Bluegill	2	0.17	1.17	3.89	20.00
CAP	Common Carp	36	3.00	1.00	2.44	5.51
FRD	Freshwater Drum	5	0.42	0.23	0.92	3.25
GOS	Golden Shiner	1	0.08	0.22	0.50	1.10
NOP	Northern Pike	12	1.00	N/A	N/A	N/A
QBS	Quillback	2	0.17	N/A	N/A	N/A
WAE	Walleye	4	0.33	0.50	1.33	2.95
WHC	White Crappie	59	4.92	0.25	1.83	5.96
WTS	White Sucker	43	3.58	0.34	0.88	2.58
YEB	Yellow Bullhead	5	0.42	0.50	1.13	2.50
YEP	Yellow Perch	5	0.42	0.33	1.37	3.76
Total Fish/Set:			121.83	<sup>1</sup> Quartiles for Number Per Set		

**Net Catch Summary by Weight for TN**

Standard 3/4-in mesh, double frame trap net sets

Abbr	Species	Total Weight (Pounds)	Pounds Per Set	Mean Weight <sup>2</sup>	Quartiles for Lake Class 43 <sup>1</sup>		
					25%	50%	75%
BIB	Bigmouth Buffalo	37.75	3.15	6.29	2.56	3.75	5.83
BLB	Black Bullhead	343.18	28.60	0.32	0.18	0.28	0.40
BLC	Black Crappie	91.32	7.61	0.38	0.22	0.34	0.50
BLG	Bluegill	0.52	0.04	0.26	0.13	0.24	0.39
CAP	Common Carp	126.08	10.51	3.50	1.42	2.92	4.58
FRD	Freshwater Drum	6.73	0.56	1.35	0.28	0.60	0.95
GOS	Golden Shiner	0.05	0.00	0.05	0.06	0.10	0.10
NOP	Northern Pike	34.44	2.87	2.87	N/A	N/A	N/A
QBS	Quillback	4.06	0.34	2.03	N/A	N/A	N/A
WAE	Walleye	9.46	0.79	2.37	0.82	1.44	2.28
WHC	White Crappie	55.39	4.62	0.93	0.27	0.40	0.63
WTS	White Sucker	86.25	7.19	2.01	1.05	1.47	2.04
YEB	Yellow Bullhead	4.22	0.35	0.84	0.31	0.48	0.67
YEP	Yellow Perch	1.01	0.08	0.20	0.11	0.18	0.30
Total Pounds Fish/Set:			66.70	<sup>1</sup> Quartiles for Mean Weight			

<sup>2</sup> Mean Weights are based on measured fish counts only.

**Length Frequency Distribution for GN**

**Standard gill net sets**

(Field work conducted between 06/06/2022 and 06/09/2022)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>FRD</u>	<u>NOP</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</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	-	30	1	-	-	-	-	-	-	-
5.50 - 5.99	-	339	20	-	-	-	-	-	-	-
6.00 - 6.49	-	17	10	-	-	-	-	-	-	1
6.50 - 6.99	-	3	-	-	-	-	-	1	1	-
7.00 - 7.49	-	5	-	-	-	-	-	-	-	-
7.50 - 7.99	-	4	-	-	1	-	-	-	-	-
8.00 - 8.49	-	-	1	-	-	-	-	-	-	-
8.50 - 8.99	-	-	1	-	-	-	-	-	-	-
9.00 - 9.49	-	1	-	-	-	-	-	-	-	-
9.50 - 9.99	-	-	-	-	-	-	-	-	-	-
10.00 - 10.49	-	5	-	-	-	-	-	-	-	-
10.50 - 10.99	-	7	-	-	1	-	-	-	-	-
11.00 - 11.49	-	7	-	-	1	-	-	-	-	-
11.50 - 11.99	1	-	-	-	-	-	-	-	1	-
12.00 - 12.99	-	-	-	6	-	-	4	-	-	-
13.00 - 13.99	6	-	-	34	-	-	-	-	2	-
14.00 - 14.99	7	-	-	16	-	-	-	-	1	-
15.00 - 15.99	-	-	-	4	-	-	-	-	2	-
16.00 - 16.99	-	-	-	1	1	-	2	-	1	-
17.00 - 17.99	-	-	-	-	-	1	-	-	-	-
18.00 - 18.99	1	-	-	1	-	-	-	-	-	-
19.00 - 19.99	-	-	-	-	-	-	2	-	-	-
20.00 - 20.99	-	-	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-	3	-	-	-	-
22.00 - 22.99	-	-	-	-	-	1	-	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	-	3	-	-	-	-
25.00 - 25.99	-	-	-	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	1	1	-	-	-
27.00 - 27.99	-	-	-	-	-	2	-	-	-	-
28.00 - 28.99	-	-	-	-	-	2	-	-	-	-
29.00 - 29.99	-	-	-	-	-	1	-	-	-	-
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>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>FRD</u>	<u>NOP</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEP</u>
Total	15	418	33	62	4	14	9	1	8	1
Min. Length	11.73	5.35	5.47	12.64	7.56	17.68	12.40	6.54	6.77	6.14
Max. Length	18.62	11.38	8.58	18.94	16.57	29.96	26.06	6.54	16.38	6.14
Mean Length	14.15	6.87	6.10	13.90	11.56	24.68	16.50	6.54	13.39	6.14
# Measured	15	110	29	62	4	14	9	1	8	1
No Lengths for	0	413	4	18	0	0	0	0	0	0

**Note:** Unless all fish were measured in the catch, totals shown for some length-frequency distributions may differ from the total number of fish in the catch, due to rounding of fractions used in the estimation of length frequency from a subsample of measured fish

**Length Frequency Distribution for TN**

**Standard 3/4-in mesh, double frame trap net sets**

(Field work conducted between 06/06/2022 and 06/09/2022)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>FRD</u>	<u>NOP</u>	<u>QBS</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	5	-	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	40	6	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	313	38	1	-	-	-	-	-	-	-	-	1
6.00 - 6.49	-	119	21	-	-	-	-	-	-	1	-	-	2
6.50 - 6.99	-	37	4	-	-	-	-	-	-	6	-	-	-
7.00 - 7.49	-	14	-	-	-	-	-	-	-	1	-	-	-
7.50 - 7.99	-	29	1	-	-	-	-	-	-	2	-	-	-
8.00 - 8.49	-	22	22	-	-	-	-	-	-	1	-	-	-
8.50 - 8.99	-	5	49	-	-	-	-	-	-	-	-	-	-
9.00 - 9.49	-	-	8	-	-	-	-	-	-	1	-	-	-
9.50 - 9.99	-	11	4	-	-	-	-	-	-	-	-	-	-
10.00 - 10.49	-	41	6	-	-	-	-	-	-	-	-	1	-
10.50 - 10.99	-	112	8	-	-	-	-	-	-	-	-	-	-
11.00 - 11.49	-	120	3	-	-	-	-	-	-	-	-	-	-
11.50 - 11.99	-	10	8	-	2	-	-	-	-	1	-	2	-
12.00 - 12.99	-	5	24	-	3	-	-	-	-	15	-	1	-
13.00 - 13.99	1	-	-	-	6	-	-	-	-	17	-	-	-
14.00 - 14.99	1	-	-	-	6	-	-	-	-	2	-	-	-
15.00 - 15.99	-	-	-	-	2	1	-	-	-	-	7	-	-
16.00 - 16.99	-	-	-	-	4	1	-	2	1	-	14	-	-
17.00 - 17.99	-	-	-	-	-	1	-	-	-	-	11	-	-
18.00 - 18.99	-	-	-	-	1	-	-	-	2	-	3	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	-	1	-	-	-	1	-	-	-	-
21.00 - 21.99	-	-	-	-	2	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	2	-	2	-	-	-	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	-	-	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	-	-	-	1	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	1	-	-	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	1	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	-	-	-	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	-	1	-	-	-	-	-	-	-	-
30.00 - 30.99	-	-	-	-	1	-	-	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	-	1	-	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-	-	-	-	-

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>FRD</u>	<u>NOP</u>	<u>QBS</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	2	883	202	1	33	3	4	2	4	47	35	4	3
Min. Length	13.23	4.80	5.20	5.98	11.97	15.51	22.52	16.22	16.22	6.38	15.20	10.28	5.75
Max. Length	14.61	12.20	12.95	5.98	30.00	17.01	31.50	16.69	20.16	14.13	18.19	12.52	6.38
Mean Length	13.92	7.72	8.24	5.98	17.16	16.22	25.56	16.46	18.46	11.48	16.76	11.50	6.09
# Measured	2	184	121	1	33	3	4	2	4	41	35	4	3
No Lengths for	0	863	81	0	0	0	2	0	0	7	0	1	0

**Note:** Unless all fish were measured in the catch, totals shown for some length-frequency distributions may differ from the total number of fish in the catch, due to rounding of fractions used in the estimation of length frequency from a subsample of measured fish

**Other Species**

Gear Type (1)	Other Species (Gender) (2)	Total Num	Number Measured	Length (inches) Min - Mean - Max	Number Weighed	Weight (pounds) Min - Mean - Max
TN	Painted Turtle	15	0	N/A	0	N/A
	Snapping Turtle	9	9	9.45 - 12.71 - 17.95	0	N/A

**(1) Key to sampling gear abbreviations:**

TN = Standard 3/4-in mesh, double frame trap net sets

**(2) Gender:** If identified and reported.

**Approval Dates And Notices**

Date Approved By Windom Area Fisheries Supervisor: \_\_\_\_\_

Date Approved By Southern Region Fisheries Manager: \_\_\_\_\_

**This DRAFT VERSION of the Lake Survey Report contains preliminary data (as of 06/09/2022), and is therefore subject to change at any time.**



Minnesota Department of Natural Resources



By accepting the data in this report, the user agrees the data will be used for personal benefit and not for profit. Any other uses or publication of the data needs the consent of the Department. The Minnesota Department of Natural Resources assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on the data.

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Lake Survey Report revision: 20210824-RJE. Data Date: 06/09/2022 at 2:50 pm .



## REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Cedar

Survey Type: Standard Survey

DOW Number: 46-0121-00

Survey ID Date: 06/06/2022

Survey Status: Proposed

The following 22 (of 33) report components are not included in this Lake Survey Report:

1. Current Water Level
2. Benchmark And Gauge Descriptions / Locations
3. Water Level History<sup>1</sup>
4. Lake Inlets
5. Additional Inlet Information
6. Lake Outlets
7. Additional Outlet Information
8. Water Control Structure (Dam)
9. Surrounding Watershed Characteristics, Shoreline Characteristics, and Riparian Landscape Observations<sup>2</sup>
10. Resorts And Campgrounds
11. Fish Spawning Conditions
12. Erosion And Pollution
13. Fish Diseases And Parasites
14. Aquatic Vegetation And Shoalwater Substrates
15. Water Quality (Winter Observations) (added to revision 01/21/2010)
16. Laboratory Analysis Of Water Chemistry
17. Catch Summary (Pre-1993 Format) (added to revision 20201001)
18. Length At Capture With Last Incremental Length\*
19. Back-Calculated Lengths
20. Age Class Frequency Distributions
21. Status Of Fishery And Field Notes
22. Survey Attachments (added to revision 20150622)

<sup>1</sup> Water Level History report: This data has not yet been migrated into the Fisheries LSM database. On 01/08/2009, two additional Water Level History report components (Readings and Station Summary) were added.

<sup>2</sup> Effective 03/25/2014, the Surrounding Watershed Characteristics, Shoreline Characteristics, and Riparian Landscape Observations report component was modified to be included in the Lake Survey report if it did not include any Watershed and Shoreline characteristics and only consisted of Riparian Landscape Observations.

\* 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 after noon on 06/09/2022 may not be reflected in the Distribution tables until 06/10/2022.**

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