

**Lake Name: Clear**

**Survey Type: Standard Survey**

**DOW Number: 42-0055-00**

**Survey ID Date: 05/28/2024**

**Lake Identification**

Alternate Lake Name: N/A  
Primary Lake Class ID: 42

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

**Lake Location**

Primary County: Lyon

Nearest Town: Russell

**Legal Descriptions**

Lake Center: Township - 110N Range - 42W Section - 19  
PLS Section Lake Center: 11004219

**All Legal Descriptions:**

Lyon County: Township - 110N Range - 42W Sections - 18, 19

**Area Office**

Area Name: Windom  
Region Name: Southern

ORG Code: F418  
Region Number: 4

**Lake Access**

(Information based on Re-Survey dated 08/25/2003)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	A CONCRETE ACCESS RAMP WAS CONSTRUCTED IN 1996.

**Lake Characteristics**

Lake Area (planimetered acres): 68.00	GIS Shoreline Length (miles): 1.28
GIS Lake Area (acres): 65.54	Maximum Fetch (miles): 0.86
DOW Lake Area (acres): 68.00	Fetch Orientation (degrees): 337
Littoral Area (acres): 65.76	USGS Quad Map Number: U06c
Area in MN (acres): 65.54	USGS Quad 24K GIS Index: 4111
Maximum Depth (feet): 11.0	
Mean Depth (feet): N/A	

**Watershed Characteristics**

**Major Watershed**

Name: Redwood River  
Watershed Number: 27  
Watershed size (acres): 447,531

**Minor Watershed**

Name: Redwood R  
Watershed Number: 43  
Watershed size (acres): 27,085

**Surveys and Investigations**

**Initial Survey:** 08/29/1995.  
**Re-Survey:** 08/25/2003.  
**Population Assessment:** 08/20/2012, 08/20/2007, 08/23/1999.  
**Winter Kill Assessment:** 04/19/2010.  
**Dissolved Oxygen Check:** 02/16/2016, 02/18/2015, 12/31/2013, 02/06/2013, 01/03/2013, 01/11/2012, 12/28/20101/04/2010.  
**Standard Survey:** 05/28/2024, 06/01/2021, 08/22/2016.  
**Targeted Survey:** 01/08/2020, 02/01/2019, 01/18/2018, 01/07/2017.

**Water Level History - Readings**

Station ID	Date	Level	Reading (feet)	Reading Type
GA - 1	06/01/2021	Normal	4.65	Direct Gauge Reading
	08/22/2012	Low	6.20	Direct Gauge Reading

**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			
GA - 1	4.65	06/01/2021	6.20	08/22/2012	1.55	5.43	Direct Gauge Reading (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	05/28/2024	9.0	Surface	64.2	8.2
			2.0	64.2	8.2
			4.0	64.2	8.2
			6.0	64.2	8.2
			8.0	64.2	8.1
			9.0	64.2	7.9

**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	05/28/2024	Surface	1.3	8.36	220	Brown	Sediment

**Net Catch Summary by Numbers for GN**

Standard gill net sets

**Number of Sets:** 1  
**First Set Date:** 05/28/2024  
**Last Lift Date:** 05/29/2024  
**Target Species:** N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 42 <sup>1</sup>		
				25%	50%	75%
BLB	Black Bullhead	77	77.00	9.63	39.75	91.42
NOP	Northern Pike	11	11.00	1.54	4.29	7.00
WAE	Walleye	7	7.00	1.00	2.50	7.33
YEP	Yellow Perch	33	33.00	3.00	8.00	26.50
Total Fish/Set:			128.00	<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 42 <sup>1</sup>		
					25%	50%	75%
BLB	Black Bullhead	16.92	16.92	0.22	0.18	0.28	0.49
NOP	Northern Pike	7.59	7.59	0.69	1.49	2.17	3.40
WAE	Walleye	0.72	0.72	0.10	0.95	1.58	2.80
YEP	Yellow Perch	4.23	4.23	0.13	0.14	0.20	0.28
Total Pounds Fish/Set:			29.45	<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: 6  
First Set Date: 05/28/2024  
Last Lift Date: 05/30/2024  
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 42 <sup>1</sup>		
				25%	50%	75%
BLB	Black Bullhead	529	88.17	2.20	17.30	60.46
GSF	Green Sunfish	1	0.17	0.20	0.40	2.00
NOP	Northern Pike	1	0.17	N/A	N/A	N/A
WAE	Walleye	21	3.50	0.40	0.86	1.94
WTS	White Sucker	5	0.83	0.28	0.67	2.20
YEB	Yellow Bullhead	1	0.17	0.83	2.43	6.15
YEP	Yellow Perch	29	4.83	0.48	1.29	3.45
Total Fish/Set:			97.83	<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 42 <sup>1</sup>		
					25%	50%	75%
BLB	Black Bullhead	143.59	23.93	0.27	0.19	0.30	0.50
GSF	Green Sunfish	0.09	0.02	0.09	0.09	0.10	0.19
NOP	Northern Pike	1.54	0.26	1.54	N/A	N/A	N/A
WAE	Walleye	3.04	0.51	0.14	0.59	1.53	2.56
WTS	White Sucker	8.57	1.43	1.71	1.14	1.79	2.50
YEB	Yellow Bullhead	0.28	0.05	0.28	0.43	0.56	0.69
YEP	Yellow Perch	4.21	0.70	0.14	0.10	0.17	0.27
Total Pounds Fish/Set:			26.89	<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 05/28/2024 and 05/29/2024)

	<u>BLB</u>	<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	3	-	-	-
5.00 - 5.49	2	-	-	11
5.50 - 5.99	3	-	2	12
6.00 - 6.49	8	-	2	2
6.50 - 6.99	13	-	1	-
7.00 - 7.49	13	-	1	2
7.50 - 7.99	20	-	-	2
8.00 - 8.49	12	-	-	-
8.50 - 8.99	2	-	-	-
9.00 - 9.49	1	-	-	2
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	-	-	-	-
13.00 - 13.99	-	5	-	-
14.00 - 14.99	-	3	-	-
15.00 - 15.99	-	1	-	-
16.00 - 16.99	-	2	-	-
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>BLB</u>	<u>NOP</u>	<u>WAE</u>	<u>YEP</u>
Total	77	11	6	32
Min. Length	4.72	13.03	5.59	5.16
Max. Length	9.09	16.65	7.17	9.72
Mean Length	7.18	14.50	6.31	6.17
# Measured	77	11	6	32
No Lengths for	0	0	1	1

**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 05/28/2024 and 05/30/2024)

	<u>BLB</u>	<u>GSF</u>	<u>NOP</u>	<u>WAE</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	-	-	-	-	-	-	-
5.00 - 5.49	1	-	-	-	-	-	9
5.50 - 5.99	-	1	-	-	-	-	12
6.00 - 6.49	1	-	-	8	-	-	-
6.50 - 6.99	8	-	-	4	-	-	-
7.00 - 7.49	15	-	-	4	-	-	-
7.50 - 7.99	25	-	-	3	-	-	5
8.00 - 8.49	55	-	-	-	-	1	1
8.50 - 8.99	15	-	-	-	-	-	-
9.00 - 9.49	-	-	-	1	-	-	1
9.50 - 9.99	-	-	-	-	1	-	1
10.00 - 10.49	-	-	-	-	-	-	-
10.50 - 10.99	-	-	-	-	-	-	-
11.00 - 11.49	-	-	-	1	-	-	-
11.50 - 11.99	-	-	-	-	-	-	-
12.00 - 12.99	-	-	-	-	-	-	-
13.00 - 13.99	-	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	1	-	-
16.00 - 16.99	-	-	-	-	2	-	-
17.00 - 17.99	-	-	-	-	-	-	-
18.00 - 18.99	-	-	1	-	1	-	-
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>BLB</u>	<u>GSF</u>	<u>NOP</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	120	1	1	21	5	1	29
Min. Length	5.20	5.59	18.54	6.02	9.69	8.11	5.16
Max. Length	8.70	5.59	18.54	11.26	18.15	8.11	9.88
Mean Length	7.92	5.59	18.54	7.10	15.19	8.11	6.23
# Measured	52	1	1	21	5	1	27
No Lengths for	477	0	0	0	0	0	2

**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.

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**Other Species**

<u>Gear Type (1)</u>	<u>Other Species (Gender) (2)</u>	<u>Total Num</u>	<u>Number Measured</u>	<u>Length (inches) Min - Mean - Max</u>	<u>Number Weighed</u>	<u>Weight (pounds) Min - Mean - Max</u>
TN	Painted Turtle	3	0	N/A	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.

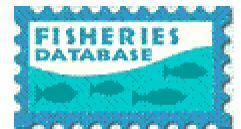
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**Approval Dates And Notices**

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 05/31/2024), 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: 20230207-RJE. Data Date: 05/31/2024 at 7:37 am .



## REPORT OVERVIEW - FOR OFFICE USE ONLY

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

**Lake Name: Clear**

**Survey Type: Standard Survey**

**DOW Number: 42-0055-00**

**Survey ID Date: 05/28/2024**

**Survey Status:** Field Work Complete

The following 23 (of 34) 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. Zooplankton Sampling (added to revision 20221130)
18. Catch Summary (Pre-1993 Format) (added to revision 20201001)
19. Length At Capture With Last Incremental Length\*
20. Back-Calculated Lengths
21. Age Class Frequency Distributions
22. Status Of Fishery And Field Notes
23. 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 before noon on 05/31/2024 may not be reflected in the Distribution tables until after 12:30 pm on 05/31/2024.**

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