

Lake Name: Wood
DOW Number: 42-0078-00

Survey Type: Standard Survey
Survey ID Date: 06/30/2024

Lake Identification

Alternate Lake Name: Marguerite
Primary Lake Class ID: 43

DNR Sounding Map Number: C0791
Alternate Lake Class ID: N/A

Lake Location

Primary County: Lyon

Nearest Town: Russell

Legal Descriptions

Lake Center: Township - 110N Range - 43W Section - 9
PLS Section Lake Center: 11004309

All Legal Descriptions:

Lyon County: Township - 110N Range - 43W Sections - 3, 4, 9

Area Office

Area Name: Windom
Region Name: Southern

ORG Code: F418
Region Number: 4

Lake Access

(Information based on Re-Survey dated 07/15/1996)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	STATE OWNED ACCESS ON NORTH END OF LAKE.

Lake Characteristics

Lake Area (planimetered acres): 367.00	GIS Shoreline Length (miles): 3.49
GIS Lake Area (acres): 372.81	Maximum Fetch (miles): 1.10
DOW Lake Area (acres): 351.00	Fetch Orientation (degrees): 360
Littoral Area (acres): 372.80	USGS Quad Map Number: U05d
Area in MN (acres): 372.81	USGS Quad 24K GIS Index: 4110
Maximum Depth (feet): 14.0	
Mean Depth (feet): N/A	

Watershed Characteristics

Major Watershed

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

Minor Watershed

Name: unknown DNR Minor Wshd
Watershed Number: 46
Watershed size (acres): 3,158

Surveys and Investigations

Initial Survey: 07/13/1988.
Re-Survey: 07/15/1996.
Population Assessment: 07/16/2012, 07/14/2008, 07/12/2004, 07/10/2000, 07/13/1992.
Dissolved Oxygen Check: 01/22/2015, 01/02/2014, 02/18/2010.
Standard Survey: 06/30/2024, 07/13/2020, 07/11/2016.
Targeted Survey: 02/05/2020, 09/19/2019, 08/10/2017, 02/08/2017, 10/05/2016, 07/11/2016, 10/05/201

Current Water Level

<u>Station ID</u>	<u>Date</u>	<u>Level</u>	<u>Reading (feet)</u>	<u>Reading Type</u>
BM - 1	07/02/2024	High	-0.90	Above or below Benchmark

Benchmark and Gauge Descriptions / Locations

<u>Station ID</u>	<u>Location Description</u>
BM - 1	X on second large boulder (BFR) east of the public access.

Water Level History - Readings

<u>Station ID</u>	<u>Date</u>	<u>Level</u>	<u>Reading (feet)</u>	<u>Reading Type</u>
BM - 1	07/02/2024	High	-0.90	Above or below Benchmark
	07/16/2020	Normal	-4.30	Above or below Benchmark
	07/20/2016	High	-2.10	Above or below Benchmark
	07/17/2012	Normal	3.90	Above or below Benchmark
	07/17/2008	Normal	3.40	Above or below Benchmark

Water Level History - Station Summary

<u>Station ID</u>	<u>Minimum Level</u>		<u>Maximum Level</u>		<u>Range (feet)</u>	<u>Average Level (feet)</u>	<u>Reading Type (and number of readings)</u>
	<u>Feet</u>	<u>Date</u>	<u>Feet</u>	<u>Date</u>			
BM - 1	-4.30	07/16/2020	3.90	07/17/2012	8.20	0.00	Above or below Benchmark (5)

Dissolved Oxygen and Temperature Profile of Lake Water

<u>Station ID</u>	<u>Sampling Date</u>	<u>Bottom Depth (Feet)</u>	<u>Sample Depth (Feet)</u>	<u>Water Temperature (°F)</u>	<u>Dissolved Oxygen (ppm)</u>
WQ - 1	06/30/2024	13.7	1.0	71.2	9.0
			2.0	71.2	9.1
			3.0	71.2	8.9
			4.0	71.2	8.7
			5.0	71.2	8.6
			6.0	71.2	8.6
			7.0	71.2	8.5
			8.0	71.2	8.5
			9.0	71.2	8.4
			10.0	71.1	8.4
			11.0	71.1	8.3
			12.0	71.1	8.3
			13.0	71.1	8.2
			14.0	71.1	8.2

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	06/30/2024	13.7	1.5	8.85	320	Green	Algae

Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 3
First Set Date: 06/30/2024
Last Lift Date: 07/03/2024
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 ¹		
				25%	50%	75%
CAP	Common Carp	3	1.00	1.00	3.33	13.75
WAE	Walleye	37	12.33	2.28	6.83	18.06
YEP	Yellow Perch	84	28.00	2.65	8.00	25.00
Total Fish/Set:			41.33	¹ 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 ²	Quartiles for Lake Class 43 ¹		
					25%	50%	75%
CAP	Common Carp	18.35	6.12	6.12	0.81	1.98	3.70
WAE	Walleye	18.15	6.05	0.50	1.01	1.53	2.30
YEP	Yellow Perch	39.92	13.31	0.48	0.13	0.21	0.31
Total Pounds Fish/Set:			25.47	¹ Quartiles for Mean Weight			

² 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: 8
 First Set Date: 06/30/2024
 Last Lift Date: 07/03/2024
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 ¹		
				25%	50%	75%
BLB	Black Bullhead	1	0.13	11.50	42.00	132.61
BLG	Bluegill	1	0.13	1.17	3.89	20.00
CAP	Common Carp	20	2.50	1.00	2.44	5.51
WAE	Walleye	8	1.00	0.50	1.33	2.95
WTS	White Sucker	1	0.13	0.34	0.88	2.58
YEP	Yellow Perch	3	0.38	0.33	1.37	3.76
Total Fish/Set:			4.25	¹ 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 ²	Quartiles for Lake Class 43 ¹		
					25%	50%	75%
BLB	Black Bullhead	0.58	0.07	0.58	0.18	0.28	0.40
BLG	Bluegill	1.21	0.15	1.21	0.13	0.24	0.39
CAP	Common Carp	122.19	15.27	6.11	1.42	2.92	4.58
WAE	Walleye	3.49	0.44	0.44	0.82	1.44	2.28
WTS	White Sucker	3.31	0.41	3.31	1.05	1.47	2.04
YEP	Yellow Perch	1.03	0.13	0.34	0.11	0.18	0.30
Total Pounds Fish/Set:			16.48	¹ Quartiles for Mean Weight			

² Mean Weights are based on measured fish counts only.

Length Frequency Distribution for GN

Standard gill net sets

(Field work conducted between 06/30/2024 and 07/03/2024)

	<u>CAP</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	-	-	1
6.50 - 6.99	-	-	1
7.00 - 7.49	-	-	-
7.50 - 7.99	-	-	-
8.00 - 8.49	-	-	3
8.50 - 8.99	-	-	10
9.00 - 9.49	-	-	28
9.50 - 9.99	-	6	27
10.00 - 10.49	-	19	8
10.50 - 10.99	-	3	1
11.00 - 11.49	-	-	1
11.50 - 11.99	-	-	-
12.00 - 12.99	-	-	2
13.00 - 13.99	-	1	-
14.00 - 14.99	-	2	-
15.00 - 15.99	-	2	-
16.00 - 16.99	-	3	-
17.00 - 17.99	-	-	-
18.00 - 18.99	-	-	-
19.00 - 19.99	-	-	-
20.00 - 20.99	-	-	-
21.00 - 21.99	-	-	-
22.00 - 22.99	2	-	-
23.00 - 23.99	-	-	-
24.00 - 24.99	-	-	-
25.00 - 25.99	-	-	-
26.00 - 26.99	1	-	-
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>CAP</u>	<u>WAE</u>	<u>YEP</u>
Total	3	36	84
Min. Length	22.13	9.53	5.94
Max. Length	26.06	16.65	12.68
Mean Length	23.53	11.37	9.39
# Measured	3	35	82
No Lengths for	0	2	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.

Length Frequency Distribution for TN

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

(Field work conducted between 06/30/2024 and 07/03/2024)

	<u>BLB</u>	<u>BLG</u>	<u>CAP</u>	<u>WAE</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	-	-	-	-	-	-
5.50 - 5.99	-	-	-	-	-	1
6.00 - 6.49	-	-	-	-	-	-
6.50 - 6.99	-	-	-	-	-	-
7.00 - 7.49	-	-	-	-	-	-
7.50 - 7.99	-	-	-	-	-	-
8.00 - 8.49	-	-	-	-	-	-
8.50 - 8.99	-	-	-	-	-	-
9.00 - 9.49	1	-	-	-	-	1
9.50 - 9.99	-	-	-	1	-	1
10.00 - 10.49	-	-	-	1	-	-
10.50 - 10.99	-	1	-	2	-	-
11.00 - 11.49	-	-	-	1	-	-
11.50 - 11.99	-	-	-	2	-	-
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	-
20.00 - 20.99	-	-	4	-	-	-
21.00 - 21.99	-	-	3	-	-	-
22.00 - 22.99	-	-	4	-	-	-
23.00 - 23.99	-	-	4	-	-	-
24.00 - 24.99	-	-	1	-	-	-
25.00 - 25.99	-	-	2	-	-	-
26.00 - 26.99	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	-	-
28.00 - 28.99	-	-	1	-	-	-
29.00 - 29.99	-	-	-	-	-	-
30.00 - 30.99	-	-	1	-	-	-
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>BLG</u>	<u>CAP</u>	<u>WAE</u>	<u>WTS</u>	<u>YEP</u>
Total	1	1	20	8	1	3
Min. Length	9.37	10.67	20.59	9.65	19.25	5.98
Max. Length	9.37	10.67	30.79	12.13	19.25	9.96
Mean Length	9.37	10.67	23.30	11.03	19.25	8.32
# Measured	1	1	20	8	1	3
No Lengths for	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.

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	1	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.

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 07/05/2024), and is therefore subject to change at any time.



Minnesota Department of Natural Resources

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REPORT OVERVIEW - FOR OFFICE USE ONLY

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Lake Name: Wood
DOW Number: 42-0078-00

Survey Type: Standard Survey
Survey ID Date: 06/30/2024

Survey Status: Field Work Complete

The following 21 (of 34) report components are not included in this Lake Survey Report:

1. Water Level History¹
2. Lake Inlets
3. Additional Inlet Information
4. Lake Outlets
5. Additional Outlet Information
6. Water Control Structure (Dam)
7. Surrounding Watershed Characteristics, Shoreline Characteristics, and Riparian Landscape Observations²
8. Resorts And Campgrounds
9. Fish Spawning Conditions
10. Erosion And Pollution
11. Fish Diseases And Parasites
12. Aquatic Vegetation And Shoalwater Substrates
13. Water Quality (Winter Observations) (added to revision 01/21/2010)
14. Laboratory Analysis Of Water Chemistry
15. Zooplankton Sampling (added to revision 20221130)
16. Catch Summary (Pre-1993 Format) (added to revision 20201001)
17. Length At Capture With Last Incremental Length*
18. Back-Calculated Lengths
19. Age Class Frequency Distributions
20. Status Of Fishery And Field Notes
21. Survey Attachments (added to revision 20150622)

¹ 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.

² 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 07/05/2024 may not be reflected in the Distribution tables until after 12:30 pm on 07/05/2024.

The following survey component was flagged to be specifically excluded from this report: TN - 1

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