

Lake Name: Mountain  
DOW Number: 17-0003-00

Survey Type: Standard Survey  
Survey ID Date: 05/31/2022

**Lake Identification**

Alternate Lake Name: N/A  
Primary Lake Class ID: 43

DNR Sounding Map Number: C2884  
Alternate Lake Class ID: N/A

**Lake Location**

Primary County: Cottonwood

Nearest Town: Mountain Lake

**Legal Descriptions**

Lake Center: Township - 106N Range - 34W Section - 32  
PLS Section Lake Center: 10603432

**All Legal Descriptions:**

Cottonwood County: Township - 106N Range - 34W Sections - 28, 29, 31, 32, 33

**Area Office**

Area Name: Windom  
Region Name: Southern

ORG Code: F418  
Region Number: 4

**Lake Access**

(Information based on Population Assessment dated 06/06/1994)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	LOCATED ON EAST SIDE OF LAKE.
AC - 2	DNR	Open to Public use	Earthen	LOCATED ON WEST SIDE OF LAKE; ADJACENT TO WILDLIFE MANAGEMENT AREA.

**Lake Characteristics**

Lake Area (planimetered acres): 241.00	GIS Shoreline Length (miles): 4.22
GIS Lake Area (acres): 229.52	Maximum Fetch (miles): 1.31
DOW Lake Area (acres): 241.00	Fetch Orientation (degrees): 270
Littoral Area (acres): 219.79	USGS Quad Map Number: W10b
Area in MN (acres): 219.79	USGS Quad 24K GIS Index: 4419
Maximum Depth (feet): 8.0	
Mean Depth (feet): N/A	

**Watershed Characteristics**

**Major Watershed**

Name: Watonwan River  
Watershed Number: 31  
Watershed size (acres): 558,963

**Minor Watershed**

Name: From Mountain L  
Watershed Number: 58  
Watershed size (acres): 7,845

**Surveys and Investigations**

**Re-Survey:** 08/19/2002, 06/02/1997, 06/04/1985.  
**Population Assessment:** 08/25/2014, 08/30/2010, 08/30/2004, 06/06/1994, 06/04/1990.  
**Special Assessment:** 08/07/2014, 07/24/2014, 07/02/2013, 06/03/2009, 05/16/2000.  
**Dissolved Oxygen Check:** 02/11/2016, 02/24/2015, 01/03/2014, 01/08/2013, 12/28/2012, 02/14/2012, 12/29/2010, 01/12/2010.  
**Research Survey:** 04/15/1991, 09/26/1990, 05/30/1990.  
**External Management Survey:** 05/20/2015.  
**Standard Survey:** 05/29/2018.  
**Targeted Survey:** 02/03/2020, 02/19/2019, 01/18/2018.

**Current Water Level**

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 2	06/02/2022	Normal	-1.90	Above or below Benchmark

**Benchmark and Gauge Descriptions / Locations**

Station ID	Location Description
BM - 2	southwest corner of the north wing of the dam on the northeast side of the lake.

**Water Level History - Readings**

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	08/25/2014	High	-2.00	Above or below Benchmark
BM - 2	06/02/2022	Normal	-1.90	Above or below Benchmark
	05/30/2018	Normal	-2.00	Above or below Benchmark
	09/01/2010	Low	-2.50	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	-2.00	08/25/2014	-2.00	08/25/2014	0.00	-2.00	Above or below Benchmark (1)
BM - 2	-2.50	09/01/2010	-1.90	06/02/2022	0.60	-2.13	Above or below Benchmark (3)

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

Station ID	Sampling Date	Bottom Depth (Feet)	Sample Depth (Feet)	Water	Dissolved
				Temperature (°F)	Oxygen (ppm)
WQ - 1	06/02/2022	5.5	Surface	63.3	8.2
			1.0	63.5	8.1
			2.0	63.3	8.2
			3.0	63.5	8.2
			4.0	63.5	8.2
			5.0	63.3	8.6

**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	06/02/2022	5.0	N/A	8.50	200	Brown	Sediment

**Net Catch Summary by Numbers for GN**

Standard gill net sets

Number of Sets: 1  
 First Set Date: 05/31/2022  
 Last Lift Date: 06/01/2022  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 <sup>1</sup>		
				25%	50%	75%
BLB	Black Bullhead	13	13.00	30.34	75.58	150.62
BLC	Black Crappie	23	23.00	1.41	3.71	13.75
BLG	Bluegill	62	62.00	N/A	N/A	N/A
LMB	Largemouth Bass	8	8.00	0.20	0.50	1.50
NOP	Northern Pike	1	1.00	1.08	3.00	8.00
PMK	Pumpkinseed	2	2.00	N/A	N/A	N/A
WAE	Walleye	14	14.00	2.28	6.83	18.06
YEB	Yellow Bullhead	17	17.00	0.50	1.50	3.50
YEP	Yellow Perch	13	13.00	2.65	8.00	25.00
Total Fish/Set:			153.00	<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 43 <sup>1</sup>		
					25%	50%	75%
BLB	Black Bullhead	9.01	9.01	0.69	0.17	0.26	0.39
BLC	Black Crappie	3.87	3.87	0.17	0.16	0.25	0.35
BLG	Bluegill	10.11	10.11	0.17	N/A	N/A	N/A
LMB	Largemouth Bass	11.31	11.31	1.41	0.60	1.18	1.37
NOP	Northern Pike	9.59	9.59	9.59	1.82	2.50	3.35
PMK	Pumpkinseed	0.56	0.56	0.28	N/A	N/A	N/A
WAE	Walleye	33.52	33.52	2.39	1.01	1.53	2.30
YEB	Yellow Bullhead	12.95	12.95	0.76	0.31	0.53	0.73
YEP	Yellow Perch	3.61	3.61	0.28	0.13	0.21	0.31
Total Pounds Fish/Set:			94.52	<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: 9  
 First Set Date: 05/31/2022  
 Last Lift Date: 06/03/2022  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 <sup>1</sup>		
				25%	50%	75%
BLB	Black Bullhead	189	21.00	11.50	42.00	132.61
BLC	Black Crappie	56	6.22	1.17	4.88	20.50
BLG	Bluegill	520	57.78	1.17	3.89	20.00
CAP	Common Carp	4	0.44	1.00	2.44	5.51
LMB	Largemouth Bass	5	0.56	0.23	0.38	0.67
PMK	Pumpkinseed	153	17.00	0.26	1.35	4.92
WAE	Walleye	5	0.56	0.50	1.33	2.95
YEB	Yellow Bullhead	72	8.00	0.50	1.13	2.50
YEP	Yellow Perch	1	0.11	0.33	1.37	3.76
Total Fish/Set:			111.67	<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%
BLB	Black Bullhead	141.58	15.73	0.75	0.18	0.28	0.40
BLC	Black Crappie	23.26	2.58	0.42	0.22	0.34	0.50
BLG	Bluegill	138.89	15.43	0.25	0.13	0.24	0.39
CAP	Common Carp	28.67	3.19	7.17	1.42	2.92	4.58
LMB	Largemouth Bass	5.99	0.67	1.20	0.30	0.85	1.53
PMK	Pumpkinseed	38.81	4.31	0.25	0.08	0.12	0.20
WAE	Walleye	7.12	0.79	1.42	0.82	1.44	2.28
YEB	Yellow Bullhead	72.81	8.09	1.01	0.31	0.48	0.67
YEP	Yellow Perch	0.41	0.05	0.41	0.11	0.18	0.30
Total Pounds Fish/Set:			50.84	<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 05/31/2022 and 06/01/2022)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>WAE</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	2	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	3	-	-	-	-	-	-
5.00 - 5.49	-	-	12	-	-	-	-	-	-
5.50 - 5.99	-	-	12	-	-	-	-	-	-
6.00 - 6.49	-	13	20	-	-	-	-	-	-
6.50 - 6.99	-	5	8	-	-	2	-	-	-
7.00 - 7.49	2	1	7	-	-	-	-	-	2
7.50 - 7.99	1	-	-	-	-	-	-	-	2
8.00 - 8.49	-	1	-	-	-	-	-	1	4
8.50 - 8.99	-	1	-	-	-	-	-	2	3
9.00 - 9.49	-	-	-	1	-	-	-	-	1
9.50 - 9.99	1	-	-	-	-	-	-	-	-
10.00 - 10.49	-	-	-	-	-	-	-	4	-
10.50 - 10.99	-	-	-	-	-	-	-	2	-
11.00 - 11.49	4	-	-	-	-	-	-	1	1
11.50 - 11.99	4	1	-	-	-	-	-	3	-
12.00 - 12.99	1	-	-	-	-	-	-	3	-
13.00 - 13.99	-	-	-	2	-	-	-	1	-
14.00 - 14.99	-	-	-	5	-	-	3	-	-
15.00 - 15.99	-	-	-	-	-	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-	3	-	-
17.00 - 17.99	-	-	-	-	-	-	2	-	-
18.00 - 18.99	-	-	-	-	-	-	2	-	-
19.00 - 19.99	-	-	-	-	-	-	1	-	-
20.00 - 20.99	-	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-	-	1	-	-
22.00 - 22.99	-	-	-	-	-	-	-	-	-
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	-	-	-	-	1	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-
	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>LMB</u>	<u>NOP</u>	<u>PMK</u>	<u>WAE</u>	<u>YEB</u>	<u>YEP</u>
Total	13	24	62	8	1	2	14	17	13
Min. Length	7.09	2.17	4.88	9.25	35.98	6.85	14.29	8.35	7.28
Max. Length	12.05	11.61	7.40	14.80	35.98	6.89	24.02	13.90	11.42
Mean Length	10.46	6.38	6.08	13.50	35.98	6.87	18.20	10.96	8.56
# Measured	13	21	54	8	1	2	14	17	13
No Lengths for	0	2	8	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 05/31/2022 and 06/03/2022)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>LMB</u>	<u>PMK</u>	<u>WAE</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	1	-	-	-
3.50 - 3.99	-	1	-	-	-	1	-	-	-
4.00 - 4.49	-	-	3	-	-	-	-	-	-
4.50 - 4.99	-	-	5	-	-	6	-	-	-
5.00 - 5.49	-	-	17	-	-	17	-	-	-
5.50 - 5.99	-	1	51	-	-	27	-	-	-
6.00 - 6.49	-	2	76	-	-	58	-	-	-
6.50 - 6.99	8	4	207	-	-	27	-	-	-
7.00 - 7.49	1	1	118	-	-	14	-	1	-
7.50 - 7.99	7	2	38	-	-	-	-	-	-
8.00 - 8.49	-	15	4	-	-	-	-	-	-
8.50 - 8.99	3	10	-	-	-	-	-	1	-
9.00 - 9.49	-	3	-	-	1	-	-	-	-
9.50 - 9.99	-	6	-	-	-	-	-	-	1
10.00 - 10.49	-	5	-	-	-	-	-	1	-
10.50 - 10.99	2	2	-	-	-	-	-	1	-
11.00 - 11.49	19	3	-	-	-	-	-	2	-
11.50 - 11.99	17	1	-	-	1	-	-	3	-
12.00 - 12.99	22	-	-	-	1	-	1	9	-
13.00 - 13.99	-	-	-	-	-	-	1	4	-
14.00 - 14.99	-	-	-	-	-	-	-	2	-
15.00 - 15.99	-	-	-	-	1	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-	1	-	-
17.00 - 17.99	-	-	-	-	1	-	1	-	-
18.00 - 18.99	-	-	-	-	-	-	1	-	-
19.00 - 19.99	-	-	-	1	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	-	-	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	1	-	-	-	-	-
25.00 - 25.99	-	-	-	1	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	1	-	-	-	-	-
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>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>LMB</u>	<u>PMK</u>	<u>WAE</u>	<u>YEB</u>	<u>YEP</u>
Total	79	56	519	4	5	151	5	24	1
Min. Length	6.54	3.86	4.09	19.21	9.06	3.46	12.13	7.09	9.61
Max. Length	12.40	11.81	8.15	28.66	17.05	7.32	18.19	14.80	9.61
Mean Length	10.72	8.72	6.54	24.56	13.15	6.19	15.62	12.03	9.61
# Measured	31	56	181	4	5	116	5	24	1
No Lengths for	158	0	339	0	0	37	0	48	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	30	1	11.81	0	N/A
	Snapping Turtle	3	3	7.87 - 12.81 - 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 06/06/2022), 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: 06/06/2022 at 9:22 am .



## REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Mountain  
DOW Number: 17-0003-00

Survey Type: Standard Survey  
Survey ID Date: 05/31/2022

Survey Status: Proposed

The following 20 (of 33) report components are not included in this Lake Survey Report:

1. Water Level History<sup>1</sup>
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 Observations<sup>2</sup>
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. Catch Summary (Pre-1993 Format) (added to revision 20201001)
16. Length At Capture With Last Incremental Length\*
17. Back-Calculated Lengths
18. Age Class Frequency Distributions
19. Status Of Fishery And Field Notes
20. 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 06/06/2022 may not be reflected in the Distribution tables until after 12:30 pm on 06/06/2022.**

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