

Lake Name: Summit
DOW Number: 51-0068-00

Survey Type: Targeted Survey
Survey ID Date: 05/17/2023

TARGETED SURVEY
Electrofishing

Lake Identification

Alternate Lake Name: N/A
Primary Lake Class ID: 40
DNR Sounding Map Number: C0475
Alternate Lake Class ID: N/A

Lake Location

Primary County: Murray
Nearest Town: Hadley

Legal Descriptions

Lake Center: Township - 106N Range - 42W Section - 11
PLS Section Lake Center: 10604211

All Legal Descriptions:

Murray County: Township - 106N Range - 42W Section - 11

Area Office

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

Lake Access

(Information based on Re-Survey dated 06/02/2008)

Station ID	Ownership	Public Use	Type	Location / Comments
------------	-----------	------------	------	---------------------

(Data excludes records where public use is not designated or is designated "No Public Use")

Lake Characteristics

Lake Area (planimetered acres):	77.00	GIS Shoreline Length (miles):	1.49
GIS Lake Area (acres):	78.30	Maximum Fetch (miles):	0.50
DOW Lake Area (acres):	80.00	Fetch Orientation (degrees):	292
Littoral Area (acres):	76.86	USGS Quad Map Number:	W06a
Area in MN (acres):	78.30	USGS Quad 24K GIS Index:	4412
Maximum Depth (feet):	7.0		
Mean Depth (feet):	N/A		

Watershed Characteristics

Major Watershed

Name: Des Moines-Headwaters
Watershed Number: 51
Watershed size (acres): 798,595

Minor Watershed

Name: unknown DNR Minor Wshd
Watershed Number: 70
Watershed size (acres): 7,061

Surveys and Investigations

Re-Survey: 06/02/2008, 06/10/1996.
Population Assessment: 06/04/2012, 05/24/2004, 05/30/2000, 06/09/1992, 08/11/1987.
Special Assessment: 04/23/2001.
Standard Survey: 06/06/2016.
Targeted Survey: 02/06/2020.

Water Level History - Readings

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	06/06/2016	Normal	-0.50	Above or below Benchmark
	06/07/2012	N/A	-0.60	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	-0.60	06/07/2012	-0.50	06/06/2016	0.10	-0.55	Above or below Benchmark (2)

Electrofishing Catch Summary for EF

Standard electrofishing

Number of Stations: 1
Total run-time for all stations: 00:30:00
Total on-time for all stations: 00:30:00
First Sampling Date: 05/17/2023
Last Sampling Date: 05/17/2023
Daylight Sampling: Yes
Target Species: N/A

Abbr	Species	Summary By Numbers			Summary By Weight (pounds)			
		Total Number	Number per Hour		Total Weight	Lbs per Hour		Mean Weight
			Run-Time	On-Time		Run-Time	On-Time	
BLB	Black Bullhead	16	32.00	32.00	12.13	24.26	24.26	0.76
NOP	Northern Pike	14	28.00	28.00	26.00	52.00	52.00	1.86
YEP	Yellow Perch	27	54.00	54.00	1.94	3.87	3.87	0.07

Length Frequency Distribution for EF

Standard electrofishing

(Field work conducted on 05/17/2023)

	<u>BLB</u>	<u>NOP</u>	<u>YEP</u>
< 3.00	-	-	-
3.00 - 3.49	-	-	-
3.50 - 3.99	-	-	2
4.00 - 4.49	-	-	1
4.50 - 4.99	-	-	-
5.00 - 5.49	-	-	9
5.50 - 5.99	-	-	13
6.00 - 6.49	-	-	2
6.50 - 6.99	-	-	-
7.00 - 7.49	-	-	-
7.50 - 7.99	-	-	-
8.00 - 8.49	-	-	-
8.50 - 8.99	-	-	-
9.00 - 9.49	-	-	-
9.50 - 9.99	-	-	-
10.00 - 10.49	3	-	-
10.50 - 10.99	5	-	-
11.00 - 11.49	6	-	-
11.50 - 11.99	2	-	-
12.00 - 12.99	-	-	-
13.00 - 13.99	-	-	-
14.00 - 14.99	-	-	-
15.00 - 15.99	-	1	-
16.00 - 16.99	-	-	-
17.00 - 17.99	-	4	-
18.00 - 18.99	-	3	-
19.00 - 19.99	-	1	-
20.00 - 20.99	-	-	-
21.00 - 21.99	-	-	-
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	-	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>NOP</u>	<u>YEP</u>
Total	16	12	27
Min. Length	10.00	15.20	3.58
Max. Length	11.89	28.19	6.38
Mean Length	11.04	19.97	5.43
# Measured	16	10	27
No Lengths for	0	4	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.

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 06/01/2023), 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.

Lake Survey Report revision: 20230207-RJE. Data Date: 06/01/2023 at 1:44 pm .

REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Summit

Survey Type: Targeted Survey

DOW Number: 51-0068-00

Survey ID Date: 05/17/2023

Electrofishing

Survey Status: Proposed

The following 26 (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 History¹
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 Observations²
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. Water Quality (Winter Observations) (added to revision 01/21/2010)
18. Laboratory Analysis Of Water Chemistry
19. Zooplankton Sampling (added to revision 20221130)
20. Catch Summary (Pre-1993 Format) (added to revision 20201001)
21. Length At Capture With Last Incremental Length*
22. Back-Calculated Lengths
23. Age Class Frequency Distributions
24. Other Species (added to revision 03/24/2009)
25. Status Of Fishery And Field Notes
26. 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 after noon on 06/01/2023 may not be reflected in the Distribution tables until 06/02/2023.

FOR OFFICE USE ONLY: As of revision 20150622, this page is automatically suppressed on signed versions of this report (area supervisor, region manager, research biologist, research supervisor, program staff, or program manager signed).

Fisheries Lake ID = 3934, Survey ID = 20812313740642000

Lake Survey Report revision: 20230207-RJE. Data Date: 06/01/2023 at 1:44 pm .