

Lake Name: Shetek
DOW Number: 51-0046-00

Survey Type: Targeted Survey
Survey ID Date: 05/08/2023

TARGETED SURVEY
Gill Netting

Lake Identification

Alternate Lake Name: N/A
Primary Lake Class ID: 41

DNR Sounding Map Number: B0292
Alternate Lake Class ID: N/A

Lake Location

Primary County: Murray

Nearest Town: Currie

Legal Descriptions

Lake Center: Township - 108N Range - 40W Section - 30
PLS Section Lake Center: 10804030

All Legal Descriptions:

Murray County: Township - 107N Range - 40W Sections - 6, 7
Township - 107N Range - 41W Sections - 1, 2, 11, 12
Township - 108N Range - 40W Sections - 18, 19, 20, 29, 30, 31, 32
Township - 108N Range - 41W Sections - 11, 13, 14, 24, 35, 36

Area Office

Area Name: Windom
Region Name: Southern

ORG Code: F418
Region Number: 4

Lake Access

(Information based on Special Assessment dated 10/10/1995)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Carry-In	CARRY IN ACCESS ON INLET (NORTHWEST SIDE OF LAKE).
AC - 2	DNR	Fee/Permit needed	Concrete	DNR OWNED ACCESS AT THE STATE PARK (EAST SIDE OF LAKE).
AC - 4	DNR	Open to Public use	Concrete	DNR OWNED ACCESS ON SOUTHWEST SIDE OF LAKE.

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

Lake Characteristics

Lake Area (planimetered acres): 3,596.00	GIS Shoreline Length (miles): 36.04
GIS Lake Area (acres): 3,462.23	Maximum Fetch (miles): 2.60
DOW Lake Area (acres): 3,596.00	Fetch Orientation (degrees): 45
Littoral Area (acres): 3,462.22	USGS Quad Map Number: V07b
Area in MN (acres): 3,462.23	USGS Quad 24K GIS Index: 4213
Maximum Depth (feet): 10.0	
Mean Depth (feet): 5.0	

Watershed Characteristics

Major Watershed

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

Minor Watershed

Name: L Shetek
 Watershed Number: 78
 Watershed size (acres): 21,416

Surveys and Investigations

Re-Survey: 08/07/2006, 08/10/1992, 07/26/1983.
Population Assessment: 08/04/2014, 08/06/2012, 08/09/2010, 07/20/2009, 08/11/2008, 07/23/2007, 08/05/2002, 08/03/1998, 08/05/1996, 08/08/1988.
Special Assessment: 09/26/2000, 10/13/1998, 10/10/1995, 10/25/1994, 10/18/1993, 07/23/1956.
Creel Survey: 05/09/1998.
Winter Kill Assessment: 04/13/2010.
Dissolved Oxygen Check: 02/16/2016, 02/18/2015, 12/31/2013, 01/02/2013, 01/11/2012, 12/28/2010, 01/04/2010.
External Management Survey: 06/29/2007.
Standard Survey: 08/01/2022, 08/03/2020, 08/06/2018, 08/08/2016.
Targeted Survey: 05/08/2023, 10/10/2022, 10/12/2020, 02/05/2020, 09/19/2019, 01/18/2018, 09/27/2017, 02/08/2017.

Water Level History - Readings

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	08/04/2022	Normal	-0.25	Above or below Benchmark
	08/07/2018	High	0.50	Above or below Benchmark
	08/08/2016	High	0.10	Above or below Benchmark
	08/05/2014	Normal	0.15	Above or below Benchmark
	07/23/2009	Low	0.00	Above or below Benchmark
	08/15/2008	Low	-0.10	Above or below Benchmark
GA - 1	08/07/2018	High	5.15	Direct Gauge Reading
	08/05/2014	Normal	4.60	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			
BM - 1	-0.25	08/04/2022	0.50	08/07/2018	0.75	0.07	Above or below Benchmark (6)
GA - 1	4.60	08/05/2014	5.15	08/07/2018	0.55	4.88	Direct Gauge Reading (2)

Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 2
 First Set Date: 05/08/2023
 Last Lift Date: 05/09/2023
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 41 ¹		
				25%	50%	75%
BLB	Black Bullhead	23	11.50	4.56	23.42	83.00
NOP	Northern Pike	2	1.00	1.20	3.50	7.79
QBS	Quillback	1	0.50	N/A	N/A	N/A
WAE	Walleye	14	7.00	3.22	7.67	15.33
YEP	Yellow Perch	11	5.50	3.00	8.94	22.50
Total Fish/Set:			25.50	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 41 ¹		
					25%	50%	75%
BLB	Black Bullhead	20.36	10.18	0.89	0.21	0.38	0.60
NOP	Northern Pike	3.66	1.83	1.83	1.53	2.12	2.95
QBS	Quillback	0.00	0.00	N/A	N/A	N/A	N/A
WAE	Walleye	11.17	5.58	0.80	0.88	1.37	1.90
YEP	Yellow Perch	3.53	1.76	0.32	0.14	0.24	0.36
Total Pounds Fish/Set:			19.36	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 05/08/2023 and 05/09/2023)

	<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	-	-	-	-
5.00 - 5.49	-	-	-	-
5.50 - 5.99	-	-	-	-
6.00 - 6.49	-	-	-	1
6.50 - 6.99	-	-	-	2
7.00 - 7.49	-	-	-	1
7.50 - 7.99	1	-	1	1
8.00 - 8.49	-	-	1	1
8.50 - 8.99	-	-	1	-
9.00 - 9.49	-	-	-	3
9.50 - 9.99	-	-	-	-
10.00 - 10.49	3	-	-	1
10.50 - 10.99	3	-	-	-
11.00 - 11.49	5	-	-	1
11.50 - 11.99	6	-	-	-
12.00 - 12.99	5	-	5	-
13.00 - 13.99	-	1	-	-
14.00 - 14.99	-	-	2	-
15.00 - 15.99	-	-	2	-
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	-	1	-	-
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	23	2	14	11
Min. Length	7.68	13.74	7.91	6.34
Max. Length	12.68	23.15	16.18	11.34
Mean Length	11.22	18.44	12.81	8.38
# Measured	23	2	14	11
No Lengths for	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.

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 05/11/2023), 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.

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REPORT OVERVIEW - FOR OFFICE USE ONLY

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Lake Name: Shetek

Survey Type: Targeted Survey

DOW Number: 51-0046-00

Survey ID Date: 05/08/2023

Gill Netting

Survey Status: Field Work Complete

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 before noon on 05/11/2023 may not be reflected in the Distribution tables until after 12:30 pm on 05/11/2023.

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Fisheries Lake ID = 3756, Survey ID = 20822312935538000

Lake Survey Report revision: 20230207-RJE. Data Date: 05/11/2023 at 11:55 am .