

Lake Name: South Silver

Survey Type: Standard Survey

DOW Number: 46-0020-00

Survey ID Date: 08/08/2022

**Lake Identification**

Alternate Lake Name: N/A  
Primary Lake Class ID: 24

DNR Sounding Map Number: C0458  
Alternate Lake Class ID: N/A

**Lake Location**

Primary County: Martin

Nearest Town: Fairmont

**Legal Descriptions**

Lake Center: Township - 101N Range - 30W Section - 29  
PLS Section Lake Center: 10103029

**All Legal Descriptions:**

Martin County: Township - 101N Range - 30W Sections - 29, 30, 31, 32

**Area Office**

Area Name: Windom  
Region Name: Southern

ORG Code: F418  
Region Number: 4

**Lake Access**

(Information based on Re-Survey dated 08/08/1994)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	STATE-OWNED BOAT ACCESS LOCATED ON THE SOUTH SHORE.

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

**Lake Characteristics**

Lake Area (planimetered acres): 245.00	GIS Shoreline Length (miles): 3.97
GIS Lake Area (acres): 252.38	Maximum Fetch (miles): 1.10
DOW Lake Area (acres): 252.00	Fetch Orientation (degrees): 360
Littoral Area (acres): 142.00	USGS Quad Map Number: X12c
Area in MN (acres): 252.38	USGS Quad 24K GIS Index: 4723
Maximum Depth (feet): 22.0	
Mean Depth (feet): 14.0	

**Watershed Characteristics**

**Major Watershed**

Name: Blue Earth River  
Watershed Number: 30  
Watershed size (acres): 777,240

**Minor Watershed**

Name: Iowa L  
Watershed Number: 65  
Watershed size (acres): 9,774

**Surveys and Investigations**

**Re-Survey:** 08/16/2010, 08/12/2002, 08/08/1994, 08/12/1985.  
**Population Assessment:** 08/14/2006, 08/10/1998, 08/13/1990.  
**Special Assessment:** 06/18/1957.  
**Standard Survey:** 08/08/2022, 08/15/2016.  
**Targeted Survey:** 07/07/2017, 08/15/2016.

**Water Level History - Readings**

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	08/25/2016	Normal	4.90	Above or below Benchmark
	08/19/2010	Normal	4.70	Above or below Benchmark
	08/14/2006	Normal	-4.85	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	-4.85	08/14/2006	4.90	08/25/2016	9.75	1.58	Above or below Benchmark (3)

**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	08/09/2022	20.7	Surface	76.8	7.4
			2.0	77.2	7.4
			4.0	77.2	7.4
			6.0	77.2	7.4
			8.0	77.0	7.2
			10.0	77.0	7.1
			12.0	77.0	6.9
			14.0	77.0	6.8
			16.0	77.0	6.6
			18.0	77.0	6.6
			20.0	76.8	6.6

**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	08/09/2022	Surface	2.0	8.70	220	Green	Algae

**Net Catch Summary by Numbers for GN**

Standard gill net sets

Number of Sets: 3  
First Set Date: 08/08/2022  
Last Lift Date: 08/11/2022  
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24 <sup>1</sup>		
				25%	50%	75%
BIB	Bigmouth Buffalo	11	3.67	0.25	0.55	1.69
BLB	Black Bullhead	15	5.00	2.50	10.46	44.95
BLC	Black Crappie	15	5.00	2.50	6.91	16.50
CCF	Channel Catfish	3	1.00	N/A	N/A	N/A
CAP	Common Carp	2	0.67	0.33	1.00	3.00
FRD	Freshwater Drum	33	11.00	4.00	11.75	32.25
LMB	Largemouth Bass	1	0.33	0.25	0.50	0.83
WAE	Walleye	2	0.67	1.17	2.82	6.33
WHB	White Bass	1	0.33	0.27	0.83	3.83
WHC	White Crappie	2	0.67	0.67	2.65	10.38
YEP	Yellow Perch	12	4.00	2.00	10.50	27.94
Total Fish/Set:			32.33	<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 24 <sup>1</sup>		
					25%	50%	75%
BIB	Bigmouth Buffalo	19.05	6.35	1.73	N/A	N/A	N/A
BLB	Black Bullhead	6.41	2.14	0.43	0.29	0.44	0.66
BLC	Black Crappie	3.84	1.28	0.26	0.15	0.20	0.26
CCF	Channel Catfish	4.57	1.52	1.52	N/A	N/A	N/A
CAP	Common Carp	8.77	2.92	4.38	1.87	3.41	5.24
FRD	Freshwater Drum	16.03	5.34	0.49	0.25	0.50	1.13
LMB	Largemouth Bass	0.79	0.26	0.79	0.40	0.60	1.00
WAE	Walleye	2.07	0.69	1.03	1.20	1.81	2.69
WHB	White Bass	0.73	0.24	0.73	N/A	N/A	N/A
WHC	White Crappie	0.71	0.24	0.36	0.17	0.24	0.33
YEP	Yellow Perch	1.61	0.54	0.14	0.10	0.13	0.18
Total Pounds Fish/Set:			21.53	<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: 08/08/2022  
 Last Lift Date: 08/11/2022  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24 <sup>1</sup>		
				25%	50%	75%
BLB	Black Bullhead	21	2.33	0.71	3.75	25.65
BLC	Black Crappie	152	16.89	1.83	6.50	21.16
BLG	Bluegill	24	2.67	7.54	23.13	62.50
CAP	Common Carp	9	1.00	0.38	0.74	2.00
FRD	Freshwater Drum	17	1.89	0.50	1.17	4.19
NOP	Northern Pike	1	0.11	N/A	N/A	N/A
WAE	Walleye	6	0.67	0.27	0.60	1.24
WHB	White Bass	1	0.11	0.23	0.33	0.88
WHC	White Crappie	3	0.33	0.50	1.50	6.55
YEB	Yellow Bullhead	2	0.22	0.88	2.15	5.68
YEP	Yellow Perch	1	0.11	0.25	0.60	1.67
Total Fish/Set:			26.33	<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 24 <sup>1</sup>		
					25%	50%	75%
BLB	Black Bullhead	13.48	1.50	0.64	0.28	0.43	0.62
BLC	Black Crappie	45.88	5.10	0.30	0.18	0.24	0.33
BLG	Bluegill	6.16	0.68	0.26	0.13	0.18	0.25
CAP	Common Carp	47.24	5.25	5.25	2.58	4.07	6.02
FRD	Freshwater Drum	16.02	1.78	0.94	0.43	0.79	1.21
NOP	Northern Pike	4.24	0.47	4.24	N/A	N/A	N/A
WAE	Walleye	3.64	0.40	0.61	0.80	1.50	2.78
WHB	White Bass	0.93	0.10	0.93	0.49	1.04	1.49
WHC	White Crappie	0.65	0.07	0.22	0.23	0.30	0.40
YEB	Yellow Bullhead	1.29	0.14	0.64	0.50	0.67	0.84
YEP	Yellow Perch	0.00	0.00	N/A	0.10	0.13	0.20
Total Pounds Fish/Set:			15.50	<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 08/08/2022 and 08/11/2022)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>LMB</u>	<u>WAE</u>	<u>WHB</u>	<u>WHC</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
5.50 - 5.99	-	-	1	-	-	-	-	-	-	-	3
6.00 - 6.49	-	-	-	-	-	1	-	-	-	-	3
6.50 - 6.99	-	-	-	-	-	-	-	-	-	-	1
7.00 - 7.49	-	-	-	-	-	1	-	-	-	-	2
7.50 - 7.99	-	-	10	-	-	3	-	-	-	-	-
8.00 - 8.49	1	2	4	-	-	3	-	-	-	-	1
8.50 - 8.99	-	8	-	-	-	1	-	-	-	-	-
9.00 - 9.49	-	2	-	-	-	1	-	-	-	2	-
9.50 - 9.99	2	1	-	-	-	4	-	-	-	-	-
10.00 - 10.49	-	-	-	-	-	3	-	-	-	-	-
10.50 - 10.99	-	1	-	-	-	6	-	-	-	-	-
11.00 - 11.49	1	1	-	-	-	4	1	-	-	-	-
11.50 - 11.99	-	-	-	-	-	-	-	-	1	-	-
12.00 - 12.99	-	-	-	-	1	2	-	1	-	-	-
13.00 - 13.99	2	-	-	-	-	3	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	1	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	-	-	1	-	-	-
16.00 - 16.99	4	-	-	-	1	-	-	-	-	-	-
17.00 - 17.99	1	-	-	-	-	-	-	-	-	-	-
18.00 - 18.99	-	-	-	1	-	-	-	-	-	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	-	1	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	1	-	-	-	-	-	-	-
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>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>LMB</u>	<u>WAE</u>	<u>WHB</u>	<u>WHC</u>	<u>YEP</u>
Total	11	15	15	2	3	33	1	2	1	2	11
Min. Length	8.11	8.11	5.55	18.98	12.40	6.38	11.34	12.72	11.61	9.09	5.08
Max. Length	17.99	11.06	8.39	22.87	20.16	14.25	11.34	15.98	11.61	9.09	8.27
Mean Length	13.62	9.12	7.75	20.93	16.23	10.25	11.34	14.35	11.61	9.09	6.42
# Measured	11	15	15	2	3	33	1	2	1	2	11
No Lengths for	0	0	0	0	0	0	0	0	0	0	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 08/08/2022 and 08/11/2022)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>FRD</u>	<u>NOP</u>	<u>WAE</u>	<u>WHB</u>	<u>WHC</u>	<u>YEB</u>
< 3.00	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	1	-	-	-	-	-	-	-
4.00 - 4.49	-	-	2	-	-	-	-	-	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	6	2	-	-	-	-	-	-	-
6.00 - 6.49	-	5	1	-	-	-	-	-	1	-
6.50 - 6.99	-	4	8	-	-	-	-	-	-	-
7.00 - 7.49	-	11	6	-	1	-	-	-	1	-
7.50 - 7.99	-	70	4	-	2	-	-	-	-	-
8.00 - 8.49	1	24	-	-	-	-	-	-	-	-
8.50 - 8.99	4	9	-	-	2	-	-	-	-	-
9.00 - 9.49	-	12	-	-	3	-	-	-	1	-
9.50 - 9.99	1	6	-	-	-	-	1	-	-	-
10.00 - 10.49	1	4	-	-	1	-	-	-	-	-
10.50 - 10.99	7	-	-	-	2	-	1	-	-	2
11.00 - 11.49	5	-	-	-	-	-	1	-	-	-
11.50 - 11.99	2	-	-	-	-	-	-	-	-	-
12.00 - 12.99	-	-	-	-	3	-	-	1	-	-
13.00 - 13.99	-	-	-	-	1	-	2	-	-	-
14.00 - 14.99	-	-	-	-	1	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	-	1	-	-	-
16.00 - 16.99	-	-	-	-	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	-	-	-	-	-	-
18.00 - 18.99	-	-	-	1	-	-	-	-	-	-
19.00 - 19.99	-	-	-	1	-	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	1	-	-	-	-	-	-
22.00 - 22.99	-	-	-	3	-	-	-	-	-	-
23.00 - 23.99	-	-	-	2	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	-	1	-	-	-	-	-
26.00 - 26.99	-	-	-	1	-	-	-	-	-	-
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>FRD</u>	<u>NOP</u>	<u>WAE</u>	<u>WHB</u>	<u>WHC</u>	<u>YEB</u>
Total	21	151	24	9	17	1	6	1	3	2
Min. Length	8.39	5.63	3.98	18.19	7.32	28.39	9.88	12.13	6.42	10.51
Max. Length	11.65	10.47	7.83	26.42	25.63	28.39	15.20	12.13	9.13	10.67
Mean Length	10.38	7.97	6.56	22.22	11.19	28.39	12.31	12.13	7.52	10.59
# Measured	21	140	24	9	17	1	6	1	3	2
No Lengths for	0	12	0	0	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

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**Other Species**

<b>Gear Type (1)</b>	<b>Other Species (Gender) (2)</b>	<b>Total Num</b>	<b>Number Measured</b>	<b>Length (inches) Min - Mean - Max</b>	<b>Number Weighed</b>	<b>Weight (pounds) Min - Mean - Max</b>
TN	Painted Turtle	15	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 08/15/2022), 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: 08/15/2022 at 1:03 pm .



## REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: South Silver

Survey Type: Standard Survey

DOW Number: 46-0020-00

Survey ID Date: 08/08/2022

Survey Status: Field Work Complete

The following 22 (of 33) 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. Catch Summary (Pre-1993 Format) (added to revision 20201001)
18. Length At Capture With Last Incremental Length\*
19. Back-Calculated Lengths
20. Age Class Frequency Distributions
21. Status Of Fishery And Field Notes
22. 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 after noon on 08/15/2022 may not be reflected in the Distribution tables until 08/16/2022.**

**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).