

Lake Name: Indian
DOW Number: 53-0007-00

Survey Type: Standard Survey
Survey ID Date: 05/23/2022

Lake Identification

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

DNR Sounding Map Number: C2911
Alternate Lake Class ID: N/A

Lake Location

Primary County: Nobles

Nearest Town: Round Lake

Legal Descriptions

Lake Center: Township - 101N Range - 39W Section - 34
PLS Section Lake Center: 10103934

All Legal Descriptions:

Nobles County: Township - 101N Range - 39W Sections - 27, 34

Area Office

Area Name: Windom
Region Name: Southern

ORG Code: F418
Region Number: 4

Lake Access

(Information based on Re-Survey dated 06/03/1996)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	STATE ACCESS IN CO PARK IN SEC. 34; STATE ACCESS IN SEC. 27 - W/O BOAT RAMP.

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

Lake Characteristics

Lake Area (planimetered acres): 204.00	GIS Shoreline Length (miles): 3.02
GIS Lake Area (acres): 197.22	Maximum Fetch (miles): 0.80
DOW Lake Area (acres): 204.00	Fetch Orientation (degrees): 22
Littoral Area (acres): 197.21	USGS Quad Map Number: X07d
Area in MN (acres): 197.22	USGS Quad 24K GIS Index: 4714
Maximum Depth (feet): 6.0	
Mean Depth (feet): N/A	

Watershed Characteristics

Major Watershed

Name: Little Sioux River
Watershed Number: 84
Watershed size (acres): 205,753

Minor Watershed

Name: Jud Ditch #24
Watershed Number: 7
Watershed size (acres): 23,080

Surveys and Investigations

Re-Survey: 06/03/1996.
Population Assessment: 06/02/2014, 06/01/2010, 06/01/2004, 05/30/2000, 06/01/1992, 06/01/1987.
Special Assessment: 05/25/1993.
Winter Kill Assessment: 05/01/2014.
Dissolved Oxygen Check: 02/10/2016, 02/25/2015, 01/02/2014, 02/07/2013, 01/07/2013, 02/17/2012, 01/26/2012, 12/28/2010, 01/11/2010.
Standard Survey: 05/23/2022, 05/21/2018.
Targeted Survey: 02/04/2020, 03/15/2019, 01/19/2018.

Current Water Level

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	05/26/2022	Normal	-3.70	Above or below Benchmark

Benchmark and Gauge Descriptions / Locations

Station ID	Location Description
BM - 1	N/A

Water Level History - Readings

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	05/26/2022	Normal	-3.70	Above or below Benchmark
	05/21/2018	High	-3.80	Above or below Benchmark
	06/04/2014	Low	-4.25	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	-4.25	06/04/2014	-3.70	05/26/2022	0.55	-3.92	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)
				Surface	Depth	
WQ - 1	05/23/2022	4.5	Surface	55.9	10.8	
			1.0	55.8	10.7	
			2.0	55.8	10.7	
			3.0	55.8	10.6	
			4.0	55.8	10.5	

Field Measurements of Water Quality

Station ID	Sampling Date	Sample Depth (Feet)	Secchi Depth (Feet)	Field pH	Alkalinity (ppm)	Water Color	Color Cause

Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 3
 First Set Date: 05/23/2022
 Last Lift Date: 05/26/2022
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 ¹		
				25%	50%	75%
BIB	Bigmouth Buffalo	6	2.00	0.75	2.58	6.96
BLB	Black Bullhead	46	15.33	30.34	75.58	150.62
BLC	Black Crappie	3	1.00	1.41	3.71	13.75
CCF	Channel Catfish	1	0.33	N/A	N/A	N/A
CAP	Common Carp	3	1.00	1.00	3.33	13.75
FRD	Freshwater Drum	6	2.00	0.50	2.56	8.33
NOP	Northern Pike	5	1.67	1.08	3.00	8.00
WAE	Walleye	10	3.33	2.28	6.83	18.06
WHC	White Crappie	2	0.67	0.50	2.00	8.42
WTS	White Sucker	11	3.67	0.81	2.33	6.50
YEB	Yellow Bullhead	4	1.33	0.50	1.50	3.50
YEP	Yellow Perch	7	2.33	2.65	8.00	25.00
Total Fish/Set:			34.67	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%
BIB	Bigmouth Buffalo	8.84	2.95	1.47	N/A	N/A	N/A
BLB	Black Bullhead	36.90	12.30	0.80	0.17	0.26	0.39
BLC	Black Crappie	3.56	1.19	1.19	0.16	0.25	0.35
CCF	Channel Catfish	6.67	2.22	6.67	N/A	N/A	N/A
CAP	Common Carp	16.76	5.59	5.59	0.81	1.98	3.70
FRD	Freshwater Drum	9.69	3.23	1.61	0.40	0.82	1.67
NOP	Northern Pike	21.40	7.13	4.28	1.82	2.50	3.35
WAE	Walleye	21.58	7.19	2.16	1.01	1.53	2.30
WHC	White Crappie	2.07	0.69	1.04	0.15	0.21	0.32
WTS	White Sucker	24.05	8.02	2.19	0.93	1.58	2.02
YEB	Yellow Bullhead	4.32	1.44	1.08	0.31	0.53	0.73
YEP	Yellow Perch	2.39	0.80	0.34	0.13	0.21	0.31
Total Pounds Fish/Set:			52.74	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: 9
 First Set Date: 05/23/2022
 Last Lift Date: 05/26/2022
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 ¹		
				25%	50%	75%
BIB	Bigmouth Buffalo	3	0.33	0.17	0.38	1.04
BLB	Black Bullhead	48	5.33	11.50	42.00	132.61
BLC	Black Crappie	6	0.67	1.17	4.88	20.50
CAP	Common Carp	10	1.11	1.00	2.44	5.51
FRD	Freshwater Drum	2	0.22	0.23	0.92	3.25
GSF	Green Sunfish	1	0.11	0.15	0.25	1.94
WAE	Walleye	19	2.11	0.50	1.33	2.95
WHC	White Crappie	18	2.00	0.25	1.83	5.96
WTS	White Sucker	7	0.78	0.34	0.88	2.58
YEB	Yellow Bullhead	14	1.56	0.50	1.13	2.50
Total Fish/Set:			14.22	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%
BIB	Bigmouth Buffalo	6.76	0.75	2.25	2.56	3.75	5.83
BLB	Black Bullhead	53.19	5.91	1.11	0.18	0.28	0.40
BLC	Black Crappie	6.98	0.78	1.16	0.22	0.34	0.50
CAP	Common Carp	69.98	7.78	7.00	1.42	2.92	4.58
FRD	Freshwater Drum	3.46	0.38	1.73	0.28	0.60	0.95
GSF	Green Sunfish	0.06	0.01	0.06	0.09	0.11	0.24
WAE	Walleye	31.95	3.55	1.68	0.82	1.44	2.28
WHC	White Crappie	18.67	2.07	1.04	0.27	0.40	0.63
WTS	White Sucker	12.23	1.36	1.75	1.05	1.47	2.04
YEB	Yellow Bullhead	13.08	1.45	0.93	0.31	0.48	0.67
Total Pounds Fish/Set:			24.04	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 05/23/2022 and 05/26/2022)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>NOP</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	3	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	1	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	1	1	-	-	-	-	-	-	-	-	-	-
6.00 - 6.49	1	-	-	-	-	-	-	-	-	-	-	-
6.50 - 6.99	-	1	-	-	-	-	-	-	-	-	-	-
7.00 - 7.49	1	-	-	1	-	-	-	-	-	-	-	-
7.50 - 7.99	2	1	-	-	-	-	-	-	-	-	-	1
8.00 - 8.49	-	1	-	-	-	-	-	-	-	-	-	2
8.50 - 8.99	-	2	-	-	-	-	-	-	-	-	-	3
9.00 - 9.49	-	4	-	-	-	-	-	-	-	-	-	1
9.50 - 9.99	-	-	-	-	-	-	-	-	-	-	-	-
10.00 - 10.49	-	-	-	-	-	-	-	-	-	-	1	-
10.50 - 10.99	-	-	-	-	-	-	-	-	-	-	-	-
11.00 - 11.49	-	2	-	-	-	-	-	-	-	-	-	-
11.50 - 11.99	-	10	2	-	-	-	-	-	1	-	-	-
12.00 - 12.99	-	19	-	-	-	-	-	-	1	-	1	-
13.00 - 13.99	-	1	1	-	-	1	-	-	-	-	2	-
14.00 - 14.99	-	-	-	-	-	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	3	-	-	-	3	-	-
16.00 - 16.99	-	-	-	-	-	2	1	4	-	1	-	-
17.00 - 17.99	-	-	-	-	-	-	-	4	-	4	-	-
18.00 - 18.99	-	-	-	-	-	-	-	-	-	3	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-	-	-	1	-	-	-	-
21.00 - 21.99	-	-	-	-	-	-	1	-	-	-	-	-
22.00 - 22.99	-	-	-	-	-	-	-	-	-	-	-	-
23.00 - 23.99	1	-	-	-	-	-	1	1	-	-	-	-
24.00 - 24.99	-	-	-	-	-	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	-	-	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	2	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	-	-	-	-	-	-	1	-	-	-	-	-
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>NOP</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	6	46	3	3	1	6	5	10	2	11	4	7
Min. Length	5.87	4.76	11.97	7.32	26.06	13.62	16.61	16.57	11.93	15.20	10.08	7.87
Max. Length	23.70	13.03	13.19	26.46	26.06	16.65	33.70	23.62	12.13	18.86	13.43	9.02
Mean Length	9.68	10.74	12.38	19.95	26.06	15.43	24.89	18.18	12.03	17.26	12.36	8.54
# Measured	6	46	3	3	1	6	5	10	2	11	4	7
No Lengths for	0	0	0	0	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

Length Frequency Distribution for TN

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

(Field work conducted between 05/23/2022 and 05/26/2022)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>FRD</u>	<u>GSF</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEB</u>
< 3.00	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	1	-	-	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	-	-	-	-	-	-	-	-	-
6.00 - 6.49	-	-	-	-	-	-	-	-	-	-
6.50 - 6.99	1	-	-	-	-	-	-	-	-	-
7.00 - 7.49	1	-	-	-	-	-	-	-	-	-
7.50 - 7.99	-	-	-	-	-	-	-	-	-	-
8.00 - 8.49	-	1	-	-	-	-	-	-	-	-
8.50 - 8.99	-	-	-	1	-	-	-	-	-	1
9.00 - 9.49	-	-	-	-	-	-	-	-	-	-
9.50 - 9.99	-	-	-	-	-	-	-	-	-	1
10.00 - 10.49	-	-	-	-	-	-	-	-	-	2
10.50 - 10.99	-	-	-	-	-	-	-	-	-	-
11.00 - 11.49	-	-	1	-	-	-	-	4	-	1
11.50 - 11.99	-	5	2	-	-	-	-	6	-	3
12.00 - 12.99	-	33	2	-	-	-	-	8	-	2
13.00 - 13.99	-	9	1	-	-	-	-	-	-	4
14.00 - 14.99	-	-	-	-	-	-	-	-	1	-
15.00 - 15.99	-	-	-	-	1	-	1	-	1	-
16.00 - 16.99	-	-	-	-	1	-	5	-	4	-
17.00 - 17.99	-	-	-	-	-	-	8	-	1	-
18.00 - 18.99	-	-	-	-	-	-	5	-	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	1	-	-	-	-	-	-
22.00 - 22.99	1	-	-	-	-	-	-	-	-	-
23.00 - 23.99	-	-	-	1	-	-	-	-	-	-
24.00 - 24.99	-	-	-	1	-	-	-	-	-	-
25.00 - 25.99	-	-	-	3	-	-	-	-	-	-
26.00 - 26.99	-	-	-	1	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	2	-	-	-	-	-	-
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>FRD</u>	<u>GSF</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEB</u>
Total	3	48	6	10	2	1	19	18	7	14
Min. Length	6.93	8.23	11.38	8.62	15.51	4.45	15.98	11.06	14.69	8.86
Max. Length	22.13	13.86	13.23	28.90	16.10	4.45	18.54	12.64	17.36	13.82
Mean Length	12.13	12.44	12.15	23.80	15.81	4.45	17.40	11.94	16.09	11.75
# Measured	3	48	6	10	2	1	19	18	7	14
No Lengths for	0	0	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

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 06/20/2022), 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.

Lake Survey Report revision: 20210824-RJE. Data Date: 06/20/2022 at 1:03 pm .

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REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Indian

Survey Type: Standard Survey

DOW Number: 53-0007-00

Survey ID Date: 05/23/2022

Survey Status: Field Work Complete

The following 21 (of 33) 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. 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. Other Species (added to revision 03/24/2009)
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 after noon on 06/20/2022 may not be reflected in the Distribution tables until 06/21/2022.

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