



# Minnesota Department of Natural Resources Fisheries Management



## STANDARD LAKE SURVEY REPORT

**DRAFT VERSION - PRELIMINARY DATA (AS OF 06/05/2014)**

Lake Name: Indian

Survey Type: Population Assessment

DOW Number: 53-0007-00

Survey ID Date: 06/02/2014

### 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): 197.21	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): 197.21	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: 01/02/2014, 02/07/2013, 01/07/2013, 02/17/2012, 01/26/2012, 12/28/2010, 01/11/2010.

### Current Water Level

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	06/04/2014	Low	-4.25	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	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	-4.25	06/04/2014	0.00	-4.25	Above or below Benchmark (1)

### 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	06/03/2014	4.5	Surface	71.1	7.8
			1.0	70.7	7.7
			2.0	70.5	7.6
			3.0	69.8	7.3
			4.0	69.6	6.7
			4.5	69.6	6.1

### 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	06/03/2014	Surface	1.9	8.10	240	Brown Grn	Algae

**Net Catch Summary by Numbers for GN**

Standard gill net sets

Number of Sets: 3  
 First Set Date: 06/02/2014  
 Last Lift Date: 06/05/2014  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BIB	Bigmouth Buffalo	10	3.33	0.75	2.58	6.96
BLB	Black Bullhead	17	5.67	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	10	3.33	1.00	3.33	13.75
FRD	Freshwater Drum	17	5.67	0.50	2.56	8.33
WAE	Walleye	8	2.67	2.28	6.83	18.06
WHC	White Crappie	6	2.00	0.50	2.00	8.42
WTS	White Sucker	13	4.33	0.81	2.33	6.50
YEP	Yellow Perch	15	5.00	2.65	8.00	25.00
Total Fish/Set:			33.33	* 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	Quartiles for Lake Class 43*		
					25%	50%	75%
BIB	Bigmouth Buffalo	58.68	19.56	5.87	N/A	N/A	N/A
BLB	Black Bullhead	14.53	4.84	0.85	0.17	0.26	0.39
BLC	Black Crappie	0.70	0.23	0.23	0.16	0.25	0.35
CCF	Channel Catfish	8.05	2.68	8.05	N/A	N/A	N/A
CAP	Common Carp	52.74	17.58	5.27	0.81	1.98	3.70
FRD	Freshwater Drum	27.10	9.03	1.59	0.40	0.82	1.67
WAE	Walleye	13.29	4.43	1.66	1.01	1.53	2.30
WHC	White Crappie	2.01	0.67	0.33	0.15	0.21	0.32
WTS	White Sucker	29.73	9.91	2.29	0.93	1.58	2.02
YEP	Yellow Perch	5.34	1.78	0.36	0.13	0.21	0.31
Total Pounds Fish/Set:			70.72	* Quartiles for Mean Weight			

**Net Catch Summary by Numbers for TN**

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

Number of Sets: 8  
 First Set Date: 06/02/2014  
 Last Lift Date: 06/05/2014  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BIB	Bigmouth Buffalo	2	0.25	0.17	0.38	1.04
BLB	Black Bullhead	22	2.75	11.50	42.00	132.61
BLC	Black Crappie	3	0.38	1.17	4.88	20.50
CAP	Common Carp	14	1.75	1.00	2.44	5.51
FRD	Freshwater Drum	3	0.38	0.23	0.92	3.25
WAE	Walleye	9	1.13	0.50	1.33	2.95
WHC	White Crappie	145	18.13	0.25	1.83	5.96
WTS	White Sucker	13	1.63	0.34	0.88	2.58
YEP	Yellow Perch	5	0.63	0.33	1.37	3.76
Total Fish/Set:			27.00	* 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	Quartiles for Lake Class 43*		
					25%	50%	75%
BIB	Bigmouth Buffalo	9.78	1.22	4.89	2.56	3.75	5.83
BLB	Black Bullhead	20.74	2.59	0.94	0.18	0.28	0.40
BLC	Black Crappie	3.78	0.47	1.26	0.22	0.34	0.50
CAP	Common Carp	144.32	18.04	10.31	1.42	2.92	4.58
FRD	Freshwater Drum	0.15	0.02	0.05	0.28	0.60	0.95
WAE	Walleye	1.17	0.15	0.13	0.82	1.44	2.28
WHC	White Crappie	78.60	9.83	0.54	0.27	0.40	0.63
WTS	White Sucker	31.64	3.96	2.43	1.05	1.47	2.04
YEP	Yellow Perch	2.31	0.29	0.46	0.11	0.18	0.30
Total Pounds Fish/Set:			36.56	* Quartiles for Mean Weight			

**Length Frequency Distribution For GN**

**Standard gill net sets**

(Field work conducted between 06/02/2014 and 06/05/2014)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	1	-	-	-	-	2	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	1	-	-	-	-
5.50 - 5.99	-	-	-	-	-	-	-	-	-	-
6.00 - 6.49	-	-	1	-	-	-	-	-	-	-
6.50 - 6.99	-	-	-	-	-	-	-	-	-	-
7.00 - 7.49	-	-	-	-	-	-	-	-	-	-
7.50 - 7.99	2	-	-	-	-	-	-	-	-	2
8.00 - 8.49	-	-	-	-	-	-	-	1	-	-
8.50 - 8.99	-	-	-	4	-	-	-	-	-	4
9.00 - 9.49	-	-	-	2	-	-	-	-	-	3
9.50 - 9.99	-	-	1	-	-	-	-	2	-	4
10.00 - 10.49	-	1	-	-	-	1	1	1	-	-
10.50 - 10.99	-	4	-	-	-	-	-	-	-	1
11.00 - 11.49	-	4	-	-	-	-	-	-	-	-
11.50 - 11.99	-	3	-	-	-	-	-	-	-	-
12.00 - 12.99	-	3	-	-	-	-	-	-	-	-
13.00 - 13.99	-	1	-	-	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	5	-	-	1	-
15.00 - 15.99	-	-	-	-	-	2	2	-	1	-
16.00 - 16.99	-	-	-	-	-	4	2	-	6	-
17.00 - 17.99	1	-	-	-	-	3	1	-	5	-
18.00 - 18.99	1	-	-	-	-	1	1	-	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-	-
20.00 - 20.99	3	-	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-	-	1	-	-	-
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	2	-	-	2	-	-	-	-	-	-
28.00 - 28.99	-	-	-	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	1	-	-	-	-	-	-
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>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEP</u>
Total	10	16	3	10	1	17	8	6	13	14
Min. Length	7.72	10.39	4.41	8.58	25.20	5.08	10.12	4.13	14.92	7.64
Max. Length	27.60	13.15	9.72	35.91	25.20	18.58	21.06	10.16	17.28	10.87
Mean Length	20.46	11.44	6.82	16.22	25.20	14.97	16.29	7.84	16.68	9.15
# Measured	9	16	3	9	1	17	8	6	13	14
No Lengths for	1	1	0	1	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 06/02/2014 and 06/05/2014)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>FRD</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	-	4	-	-
4.50 - 4.99	-	-	-	-	1	-	3	-	-
5.00 - 5.49	-	-	-	-	2	-	-	-	-
5.50 - 5.99	-	-	-	-	-	-	-	-	-
6.00 - 6.49	-	-	-	-	-	-	-	-	-
6.50 - 6.99	-	-	-	-	-	1	-	-	-
7.00 - 7.49	-	-	-	-	-	3	-	-	-
7.50 - 7.99	-	-	-	-	-	3	1	-	-
8.00 - 8.49	-	-	-	-	-	1	4	-	-
8.50 - 8.99	-	-	-	-	-	-	9	-	-
9.00 - 9.49	-	-	-	-	-	-	25	-	1
9.50 - 9.99	-	-	-	-	-	-	54	-	2
10.00 - 10.49	-	1	-	-	-	-	27	-	2
10.50 - 10.99	-	5	-	-	-	-	4	-	-
11.00 - 11.49	-	2	-	-	-	-	3	-	-
11.50 - 11.99	-	10	-	-	-	-	1	-	-
12.00 - 12.99	-	3	1	-	-	-	4	-	-
13.00 - 13.99	-	1	2	-	-	-	4	-	-
14.00 - 14.99	-	-	-	-	-	-	1	-	-
15.00 - 15.99	-	-	-	-	-	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-	-	5	-
17.00 - 17.99	-	-	-	-	-	-	-	5	-
18.00 - 18.99	1	-	-	-	-	-	-	2	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-	-	-	1	-
21.00 - 21.99	1	-	-	1	-	-	-	-	-
22.00 - 22.99	-	-	-	-	-	-	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	1	-	-	-	-	-
26.00 - 26.99	-	-	-	2	-	-	-	-	-
27.00 - 27.99	-	-	-	1	-	-	-	-	-
28.00 - 28.99	-	-	-	1	-	-	-	-	-
29.00 - 29.99	-	-	-	5	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	-	-	-
31.00 - 31.99	-	-	-	1	-	-	-	-	-
32.00 - 32.99	-	-	-	1	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	1	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>FRD</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEP</u>
Total	2	22	3	14	3	8	144	13	5
Min. Length	18.74	10.04	12.76	21.38	4.72	6.85	4.13	16.02	9.17
Max. Length	21.73	13.54	13.50	34.06	5.43	8.46	14.96	20.67	10.24
Mean Length	20.24	11.57	13.25	28.59	5.10	7.49	9.60	17.49	9.79
# Measured	2	22	3	14	3	7	115	13	5
No Lengths for	0	0	0	0	0	2	30	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

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	3	2	9.76 - 10.10 - 10.43	0	N/A
	Snapping Turtle	2	2	15.98 - 16.14 - 16.30	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 Standard Lake Survey Report contains preliminary data (as of 06/05/2014), 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.



## REPORT OVERVIEW - FOR OFFICE USE ONLY

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

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**Lake Name: Indian**

**Survey Type: Population Assessment**

**DOW Number: 53-0007-00**

**Survey ID Date: 06/02/2014**

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**Survey Status:** Field Work Complete

The following 18 (of 31) report components are not included in this 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. Laboratory Analysis Of Water Chemistry
14. Length At Capture With Last Incremental Length\*
15. Back-Calculated Lengths
16. Age Class Frequency Distributions
17. Status Of Fishery And Field Notes
18. Water Quality (Winter Observations) (added to revision 01/21/2010)

<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 Standard 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 06/05/2014 may not be reflected in the Distribution tables until 06/06/2014.**

The following survey component was flagged to be specifically excluded from this report: TN - 2