



Minnesota Department of Natural Resources  
Fisheries Management



STANDARD LAKE SURVEY REPORT

DRAFT VERSION - PRELIMINARY DATA (AS OF 08/23/2013)

Lake Name: Sisseton

Survey Type: Population Assessment

DOW Number: 46-0025-00

Survey ID Date: 08/19/2013

Lake Identification

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

DNR Sounding Map Number: C0460  
Alternate Lake Class ID: N/A

Lake Location

Primary County: Martin

Nearest Town: Fairmont

Legal Descriptions

Lake Center: Township - 102N Range - 30W Section - 7  
PLS Section Lake Center: 10203007

All Legal Descriptions:

Martin County: Township - 102N Range - 30W Sections - 7, 8

Area Office

Area Name: Windom  
Region Name: Southern

ORG Code: F418  
Region Number: 4

Lake Access

(Information based on Re-Survey dated 08/16/1993)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	City	Open to Public use	Concrete	CITY PARK ON THE EAST.

Lake Characteristics

Lake Area (planimetered acres): 140.00	GIS Shoreline Length (miles): 2.78
GIS Lake Area (acres): 138.20	Maximum Fetch (miles): 0.70
DOW Lake Area (acres): 139.00	Fetch Orientation (degrees): 337
Littoral Area (acres): 100.00	USGS Quad Map Number: X12b
Area in MN (acres): 138.20	USGS Quad 24K GIS Index: 4623
Maximum Depth (feet): 19.0	
Mean Depth (feet): N/A	

Watershed Characteristics

Major Watershed

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

Minor Watershed

Name: Center Cr  
Watershed Number: 67  
Watershed size (acres): 8,071

**Surveys And Investigations**

Re-Survey: 08/20/2001, 08/16/1993, 07/03/1984.

Population Assessment: 08/19/2013, 08/22/2005, 08/18/1997, 08/14/1989.

Dissolved Oxygen Check: 01/08/2013, 12/28/2012, 02/16/2012, 12/29/2010, 01/15/2010.

**Current Water Level**

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 2	08/22/2013	N/A	-7.70	Above or below Benchmark

**Benchmark and Gauge Descriptions / Locations**

Station ID	Location Description
BM - 2	N/A

**Water Level History - Readings**

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 2	08/22/2013	N/A	-7.70	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 - 2	-7.70	08/22/2013	-7.70	08/22/2013	0.00	-7.70	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	08/19/2013	17.2	Surface	74.5	8.3
			3.0	74.5	8.2
			6.0	74.3	8.1
			9.0	74.3	7.8
			12.0	74.1	7.6
			13.0	73.9	7.4
			14.0	72.7	0.2
			17.0	72.1	0.1

**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	08/19/2013	Surface	2.4	N/A	119	Brown Grn	Algae

**Net Catch Summary by Numbers for GN**

Standard gill net sets

Number of Sets: 3  
 First Set Date: 08/19/2013  
 Last Lift Date: 08/22/2013  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BLB	Black Bullhead	4	1.33	2.50	10.46	44.95
BLC	Black Crappie	1	0.33	2.50	6.91	16.50
BLG	Bluegill	2	0.67	N/A	N/A	N/A
CCF	Channel Catfish	20	6.67	N/A	N/A	N/A
CAP	Common Carp	2	0.67	0.33	1.00	3.00
FRD	Freshwater Drum	89	29.67	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
WHC	White Crappie	1	0.33	0.67	2.65	10.38
WTS	White Sucker	2	0.67	0.40	1.00	2.17
YEB	Yellow Bullhead	27	9.00	0.50	2.00	7.51
YEP	Yellow Perch	23	7.67	2.00	10.50	27.94
Total Fish/Set:			58.00	* 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 24*		
					25%	50%	75%
BLB	Black Bullhead	3.51	1.17	0.88	0.29	0.44	0.66
BLC	Black Crappie	0.68	0.23	0.68	0.15	0.20	0.26
BLG	Bluegill	0.60	0.20	0.30	N/A	N/A	N/A
CCF	Channel Catfish	41.55	13.85	2.08	N/A	N/A	N/A
CAP	Common Carp	9.59	3.20	4.80	1.87	3.41	5.24
FRD	Freshwater Drum	78.22	26.07	0.88	0.25	0.50	1.13
LMB	Largemouth Bass	1.77	0.59	1.77	0.40	0.60	1.00
WAE	Walleye	2.08	0.69	1.04	1.20	1.81	2.69
WHC	White Crappie	0.53	0.18	0.53	0.17	0.24	0.33
WTS	White Sucker	4.09	1.36	2.04	1.55	2.00	2.38
YEB	Yellow Bullhead	15.62	5.21	0.58	0.46	0.61	0.82
YEP	Yellow Perch	8.58	2.86	0.37	0.10	0.13	0.18
Total Pounds Fish/Set:			55.61	* 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: 08/19/2013  
 Last Lift Date: 08/22/2013  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BLB	Black Bullhead	2	0.25	0.71	3.75	25.65
BLC	Black Crappie	30	3.75	1.83	6.50	21.16
BLG	Bluegill	35	4.38	7.54	23.13	62.50
CCF	Channel Catfish	7	0.88	N/A	N/A	N/A
CAP	Common Carp	20	2.50	0.38	0.74	2.00
FRD	Freshwater Drum	141	17.63	0.50	1.17	4.19
LMB	Largemouth Bass	2	0.25	0.20	0.33	0.67
NOP	Northern Pike	3	0.38	N/A	N/A	N/A
WAE	Walleye	13	1.63	0.27	0.60	1.24
WHC	White Crappie	14	1.75	0.50	1.50	6.55
WTS	White Sucker	9	1.13	0.20	0.44	1.00
YEB	Yellow Bullhead	3	0.38	0.88	2.15	5.68
YEP	Yellow Perch	1	0.13	0.25	0.60	1.67
Total Fish/Set:			35.00	* 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 24*		
					25%	50%	75%
BLB	Black Bullhead	1.58	0.20	0.79	0.28	0.43	0.62
BLC	Black Crappie	20.23	2.53	0.67	0.18	0.24	0.33
BLG	Bluegill	11.13	1.39	0.32	0.13	0.18	0.25
CCF	Channel Catfish	27.40	3.42	3.91	N/A	N/A	N/A
CAP	Common Carp	160.25	20.03	8.01	2.58	4.07	6.02
FRD	Freshwater Drum	118.15	14.77	0.84	0.43	0.79	1.21
LMB	Largemouth Bass	8.16	1.02	4.08	0.15	0.31	0.91
NOP	Northern Pike	16.98	2.12	5.66	N/A	N/A	N/A
WAE	Walleye	12.86	1.61	0.99	0.80	1.50	2.78
WHC	White Crappie	7.91	0.99	0.57	0.23	0.30	0.40
WTS	White Sucker	23.32	2.91	2.59	1.61	2.16	2.84
YEB	Yellow Bullhead	2.32	0.29	0.77	0.50	0.67	0.84
YEP	Yellow Perch	0.48	0.06	0.48	0.10	0.13	0.20
Total Pounds Fish/Set:			51.35	* Quartiles for Mean Weight			

**STANDARD LAKE SURVEY REPORT**  
**POPULATION ASSESSMENT DATED 08/19/2013 FOR DOW NUMBER 46-0025-00**

**DRAFT**

**Length Frequency Distribution For GN**

**Standard gill net sets**

(Field work conducted between 08/19/2013 and 08/22/2013)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>LMB</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>	<u>YYEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	1	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	-	-	-	-	-	-	-	-	-	-	-	-
6.00 - 6.49	-	-	-	-	-	-	-	-	-	-	-	-	-
6.50 - 6.99	-	-	-	-	-	-	-	-	-	-	-	-	-
7.00 - 7.49	-	-	-	-	-	-	-	-	-	-	-	1	2
7.50 - 7.99	-	-	-	-	-	-	-	-	-	-	-	3	2
8.00 - 8.49	-	-	-	-	-	-	-	-	-	-	3	-	-
8.50 - 8.99	-	-	1	-	-	-	-	-	-	-	1	3	-
9.00 - 9.49	-	-	-	-	-	-	-	-	-	-	3	4	1
9.50 - 9.99	-	-	-	-	-	-	-	-	-	-	1	1	2
10.00 - 10.49	1	1	-	-	-	-	-	-	1	-	9	3	-
10.50 - 10.99	2	-	-	-	-	-	-	-	-	-	8	-	-
11.00 - 11.49	-	-	-	-	-	1	-	-	-	-	-	1	-
11.50 - 11.99	-	-	-	-	-	4	-	-	-	-	2	-	-
12.00 - 12.99	1	-	-	-	1	44	-	1	-	-	-	-	-
13.00 - 13.99	-	-	-	-	1	38	1	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	5	1	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	1	-	-	1	-	1	-	-	-
16.00 - 16.99	-	-	-	-	-	-	-	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	1	-	-	-	-	1	-	-	-
18.00 - 18.99	-	-	-	-	3	-	-	-	-	-	-	-	-
19.00 - 19.99	-	-	-	-	2	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	-	2	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	1	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	2	-	-	-	-	-	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>20</b>	<b>89</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>27</b>	<b>16</b>	<b>7</b>
Min. Length	10.16	10.08	8.58	28.03	12.60	3.11	13.94	12.87	10.00	15.91	8.03	7.44	7.13
Max. Length	12.68	10.08	8.58	28.03	24.02	14.21	13.94	15.16	10.00	17.01	11.54	11.02	9.92
Mean Length	11.02	10.08	8.58	28.03	17.89	12.72	13.94	14.02	10.00	16.46	10.05	9.10	8.37
# Measured	4	1	1	1	20	86	1	2	1	2	27	14	7
No Lengths for	0	0	1	1	0	3	0	0	0	0	0	2	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 08/19/2013 and 08/22/2013)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>LMB</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	-	1	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	7	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	3	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	1	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	-	1	-	-	-	-	-	-	-	-	-	-
6.00 - 6.49	-	-	-	-	-	-	-	-	-	-	-	-	-
6.50 - 6.99	-	-	1	-	-	-	-	-	-	-	-	-	-
7.00 - 7.49	-	-	3	-	-	-	-	-	-	-	-	-	-
7.50 - 7.99	-	-	5	-	-	-	-	-	-	-	-	-	-
8.00 - 8.49	-	-	6	-	-	-	-	-	-	-	-	-	-
8.50 - 8.99	-	1	3	-	-	-	-	-	-	-	-	-	-
9.00 - 9.49	-	1	-	-	-	1	-	-	-	2	-	-	1
9.50 - 9.99	1	8	-	-	-	-	-	-	-	8	-	-	-
10.00 - 10.49	-	9	-	-	-	2	-	-	-	3	-	1	-
10.50 - 10.99	-	9	-	-	-	2	-	-	-	1	-	-	-
11.00 - 11.49	-	-	-	-	-	7	-	-	-	-	-	1	-
11.50 - 11.99	-	-	-	-	-	18	-	-	-	-	-	1	-
12.00 - 12.99	1	1	-	-	-	74	-	-	2	-	-	-	-
13.00 - 13.99	-	-	-	-	-	32	-	-	5	-	-	-	-
14.00 - 14.99	-	-	-	-	-	3	-	-	3	-	-	-	-
15.00 - 15.99	-	-	-	-	-	1	-	-	1	-	-	-	-
16.00 - 16.99	-	-	-	-	-	1	-	-	1	-	1	-	-
17.00 - 17.99	-	-	-	-	-	-	-	-	-	-	5	-	-
18.00 - 18.99	-	-	-	-	-	-	1	-	1	-	-	-	-
19.00 - 19.99	-	-	-	-	-	-	1	-	-	-	2	-	-
20.00 - 20.99	-	-	-	1	3	-	-	-	-	-	1	-	-
21.00 - 21.99	-	-	-	-	1	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	1	1	-	-	-	-	-	-	-	-
23.00 - 23.99	-	-	-	2	-	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	6	2	-	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	2	-	-	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	2	-	-	-	2	-	-	-	-	-
27.00 - 27.99	-	-	-	2	-	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	3	-	-	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	1	-	-	-	-	-	-	-	-	-
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>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>LMB</u>	<u>NOP</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	2	30	30	20	7	141	2	3	13	14	9	3	1
Min. Length	9.65	3.27	3.58	20.20	20.12	9.25	18.43	26.06	12.52	9.37	16.34	10.24	9.49
Max. Length	12.48	12.52	8.74	29.17	24.45	16.57	19.96	33.78	18.54	10.75	20.00	11.73	9.49
Mean Length	11.06	10.03	6.41	25.64	22.08	12.52	19.19	28.90	14.36	9.89	18.04	11.14	9.49
# Measured	2	30	30	20	7	118	2	3	13	14	9	3	1
No Lengths for	0	0	0	0	0	23	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

**Other Species**

Gear Type (1)	Other Species (Gender) (2)	Total Num	Number Measured	Length (inches) Min - Mean - Max	Number Weighed	Weight (pounds) Min - Mean - Max
TN	Painted Turtle	3	1	0.04	0	N/A
	Snapping Turtle	2	2	11.61 - 12.74 - 13.86	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 08/23/2013), 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: Sisseton**

**Survey Type: Population Assessment**

**DOW Number: 46-0025-00**

**Survey ID Date: 08/19/2013**

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**Survey Status:** Active

The following 18 (of 31) report components are not included in this report:

1. Water Level History\*
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
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)

\* 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.

\* 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 08/23/2013 may not be reflected in the Distribution tables until after 12:30 pm on 08/23/2013.**

The following survey component was flagged to be specifically excluded from this report: TN - 6