

Lake Name: St. James

DOW Number: 83-0043-00

Survey Type: Standard Survey

Survey ID Date: 06/03/2025

Lake Identification

Alternate Lake Name: N/A
Primary Lake Class ID: 42

DNR Sounding Map Number: C2883
Alternate Lake Class ID: N/A

Lake Location

Primary County: Watonwan

Nearest Town: Saint James

Legal Descriptions

Lake Center: Township - 106N Range - 32W Section - 23
PLS Section Lake Center: 10603223

All Legal Descriptions:

Watonwan County: Township - 106N Range - 32W Sections - 14, 23, 24, 26, 27

Area Office

Area Name: Windom
Region Name: Southern

ORG Code: F418
Region Number: 4

Lake Access

(Information based on Re-Survey dated 06/12/1995)

Station ID	Ownership	Public Use	Type	Location / Comments
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(Data excludes records where public use is not designated or is designated "No Public Use")

Lake Characteristics

Lake Area (planimetered acres): 252.00
GIS Lake Area (acres): 202.76
DOW Lake Area (acres): 252.00
Littoral Area (acres): 202.76
Area in MN (acres): 202.76
Maximum Depth (feet): 15.4
Mean Depth (feet): N/A

GIS Shoreline Length (miles): 3.74
Maximum Fetch (miles): 1.50
Fetch Orientation (degrees): 45
USGS Quad Map Number: W11b
USGS Quad 24K GIS Index: 4421

Watershed Characteristics

Major Watershed

Name: Watonwan River
Watershed Number: 31
Watershed size (acres): 558,963

Minor Watershed

Name: St James Cr
Watershed Number: 20
Watershed size (acres): 17,084

Surveys and Investigations

Initial Survey: 06/09/1986.
Re-Survey: 06/09/2003, 06/12/1995, 06/10/1991.
Population Assessment: 04/11/2011, 07/16/2007, 07/13/2005, 06/14/1999.
Special Assessment: 08/05/2013, 06/10/2013, 08/08/2011, 06/01/2011, 07/26/2010, 07/19/2010, 06/22/2010, 06/07/2010, 05/26/2010, 03/31/2010, 08/11/2009, 07/13/2009, 06/04/2009, 04/07/2008, 08/27/2008, 07/28/2008, 06/17/2008, 06/10/2008, 04/21/2008, 05/09/1994, 08/18/1994
Dissolved Oxygen Check: 02/11/2016, 02/24/2015, 01/03/2014, 12/28/2012, 02/14/2012, 12/29/2010, 01/12/2010
External Management Survey: 06/10/2009, 06/23/2008.
Standard Survey: 06/03/2025, 05/26/2021, 06/05/2017, 08/03/2015.
Targeted Survey: 05/14/2025, 06/20/2023, 06/15/2022, 02/03/2020, 02/19/2019, 01/18/2018, 06/19/2018

Current Water Level

Station ID	Date	Level	Reading (feet)	Reading Type
GA - 1	06/05/2025	Normal	5.30	Direct Gauge Reading

Benchmark and Gauge Descriptions / Locations

Station ID	Location Description
GA - 1	On box culvert that goes under Co. Rd. 57. (Tiell Dr.) on south end of lake.

Water Level History - Readings

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	06/08/2017	High	2.10	Above or below Benchmark
	08/05/2013	Normal	-5.40	Above or below Benchmark
	08/09/2011	Normal	3.75	Above or below Benchmark
	07/31/2008	N/A	9.65	Direct Gauge Reading
	07/16/2007	Low	-6.20	Above or below Benchmark
GA - 1	06/05/2025	Normal	5.30	Direct Gauge Reading
	06/10/2021	N/A	4.70	Direct Gauge Reading
	06/08/2017	High	5.25	Direct Gauge Reading
	08/03/2015	Normal	4.40	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	-6.20	07/16/2007	3.75	08/09/2011	9.95	-1.44	Above or below Benchmark (4)
BM - 1	9.65	07/31/2008	9.65	07/31/2008	0.00	9.65	Direct Gauge Reading (1)
GA - 1	4.40	08/03/2015	5.30	06/05/2025	0.90	4.91	Direct Gauge Reading (4)

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	06/05/2025	17.0	2.0	69.8	9.1
			4.0	69.8	8.6
			6.0	69.4	7.2
			8.0	66.9	4.2
			10.0	66.4	2.7
			12.0	63.7	0.5
			14.0	58.3	0.3
			16.0	56.3	0.3
			17.0	55.6	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	06/05/2025	Surface	3.5	8.85	260	Green	Algae

Net Catch Summary by Numbers for GN**Standard gill net sets**

Number of Sets: 2
 First Set Date: 06/03/2025
 Last Lift Date: 06/05/2025
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 42 ¹		
				25%	50%	75%
BLB	Black Bullhead	6	3.00	9.63	39.75	91.42
BLC	Black Crappie	38	19.00	1.50	5.50	14.69
BLG	Bluegill	23	11.50	N/A	N/A	N/A
CAP	Common Carp	17	8.50	0.33	1.25	4.20
LMB	Largemouth Bass	2	1.00	0.48	0.54	1.00
NOP	Northern Pike	55	27.50	1.54	4.29	7.00
WAE	Walleye	2	1.00	1.00	2.50	7.33
YEP	Yellow Perch	10	5.00	3.00	8.00	26.50
Total Fish/Set:			76.50	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 42 ¹		
					25%	50%	75%
BLB	Black Bullhead	3.78	1.89	0.63	0.18	0.28	0.49
BLC	Black Crappie	5.40	2.70	0.14	0.12	0.18	0.29
BLG	Bluegill	7.42	3.71	0.32	N/A	N/A	N/A
CAP	Common Carp	39.99	20.00	2.35	0.78	2.00	5.00
LMB	Largemouth Bass	7.22	3.61	3.61	0.20	0.63	1.50
NOP	Northern Pike	137.70	68.85	2.57	1.49	2.17	3.40
WAE	Walleye	2.34	1.17	1.17	0.95	1.58	2.80
YEP	Yellow Perch	1.40	0.70	0.16	0.14	0.20	0.28
Total Pounds Fish/Set:			102.62	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: 06/03/2025
Last Lift Date: 06/06/2025
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 42 ¹		
				25%	50%	75%
BLB	Black Bullhead	5	0.56	2.20	17.30	60.46
BLC	Black Crappie	8	0.89	2.36	5.60	15.10
BLG	Bluegill	57	6.33	1.88	10.80	29.50
CAP	Common Carp	9	1.00	1.00	2.06	3.56
NOP	Northern Pike	4	0.44	N/A	N/A	N/A
WAE	Walleye	8	0.89	0.40	0.86	1.94
YEP	Yellow Perch	2	0.22	0.48	1.29	3.45
Total Fish/Set:			10.33	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 42 ¹		
					25%	50%	75%
BLB	Black Bullhead	4.85	0.54	0.97	0.19	0.30	0.50
BLC	Black Crappie	3.15	0.35	0.39	0.17	0.25	0.36
BLG	Bluegill	17.77	1.97	0.31	0.15	0.20	0.30
CAP	Common Carp	29.20	3.24	3.24	2.10	3.55	5.29
NOP	Northern Pike	5.50	0.61	1.38	N/A	N/A	N/A
WAE	Walleye	21.48	2.39	2.69	0.59	1.53	2.56
YEP	Yellow Perch	0.15	0.02	0.07	0.10	0.17	0.27
Total Pounds Fish/Set:			9.12	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 06/03/2025 and 06/05/2025)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>LMB</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	-	7	-	-	-	-	-	3
5.50 - 5.99	-	21	1	-	-	-	-	3
6.00 - 6.49	-	6	2	-	-	-	-	-
6.50 - 6.99	-	1	7	-	-	-	-	-
7.00 - 7.49	1	-	5	-	-	-	-	2
7.50 - 7.99	-	-	4	-	-	-	-	-
8.00 - 8.49	-	-	4	-	-	-	-	-
8.50 - 8.99	-	1	-	-	-	-	-	-
9.00 - 9.49	-	1	-	-	-	-	-	-
9.50 - 9.99	-	-	-	-	-	-	-	1
10.00 - 10.49	1	1	-	-	-	-	-	-
10.50 - 10.99	-	-	-	-	-	-	-	-
11.00 - 11.49	3	-	-	-	-	-	-	-
11.50 - 11.99	1	-	-	-	-	-	-	-
12.00 - 12.99	-	-	-	-	-	-	-	-
13.00 - 13.99	-	-	-	-	-	-	-	-
14.00 - 14.99	-	-	-	1	-	-	2	-
15.00 - 15.99	-	-	-	3	1	-	-	-
16.00 - 16.99	-	-	-	5	-	-	-	-
17.00 - 17.99	-	-	-	7	-	1	-	-
18.00 - 18.99	-	-	-	-	-	7	-	-
19.00 - 19.99	-	-	-	-	1	7	-	-
20.00 - 20.99	-	-	-	1	-	8	-	-
21.00 - 21.99	-	-	-	-	-	7	-	-
22.00 - 22.99	-	-	-	-	-	8	-	-
23.00 - 23.99	-	-	-	-	-	5	-	-
24.00 - 24.99	-	-	-	-	-	7	-	-
25.00 - 25.99	-	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	3	-	-
27.00 - 27.99	-	-	-	-	-	2	-	-
28.00 - 28.99	-	-	-	-	-	1	-	-
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	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>LMB</u>	<u>NOP</u>	<u>WAE</u>	<u>YEP</u>
Total	6	38	23	17	2	57	2	9
Min. Length	7.17	5.00	5.75	14.53	15.47	17.80	14.65	5.16
Max. Length	11.50	10.04	8.27	20.08	19.88	29.21	14.76	9.53
Mean Length	10.45	6.03	7.17	16.88	17.68	22.32	14.70	6.59
# Measured	6	37	23	17	2	50	2	7
No Lengths for	0	1	0	0	0	5	0	3

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 06/03/2025 and 06/06/2025)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</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	-	-	1	-	-	-	1
5.00 - 5.49	-	1	-	-	-	-	1
5.50 - 5.99	-	-	6	-	-	-	-
6.00 - 6.49	-	-	8	-	-	-	-
6.50 - 6.99	-	1	11	-	-	-	-
7.00 - 7.49	-	1	12	-	-	-	-
7.50 - 7.99	-	-	15	-	-	-	-
8.00 - 8.49	-	-	3	-	-	1	-
8.50 - 8.99	-	-	1	-	-	-	-
9.00 - 9.49	-	1	-	-	-	1	-
9.50 - 9.99	-	2	-	-	-	-	-
10.00 - 10.49	-	2	-	-	-	-	-
10.50 - 10.99	-	-	-	-	-	-	-
11.00 - 11.49	2	-	-	-	-	-	-
11.50 - 11.99	1	-	-	-	-	-	-
12.00 - 12.99	2	-	-	-	-	-	-
13.00 - 13.99	-	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	-	-
16.00 - 16.99	-	-	-	3	-	-	-
17.00 - 17.99	-	-	-	-	1	1	-
18.00 - 18.99	-	-	-	3	1	-	-
19.00 - 19.99	-	-	-	1	-	2	-
20.00 - 20.99	-	-	-	1	2	-	-
21.00 - 21.99	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	-	2	-
23.00 - 23.99	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	1	-	1	-
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>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>NOP</u>	<u>WAE</u>	<u>YEP</u>
Total	5	8	57	9	4	8	2
Min. Length	11.06	5.16	4.76	16.22	17.52	8.31	4.92
Max. Length	12.64	10.47	8.58	24.65	20.28	24.02	5.47
Mean Length	11.83	8.53	7.00	18.70	19.09	17.93	5.20
# Measured	5	8	57	9	4	8	2
No Lengths for	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	4	0	N/A	0	N/A
	Snapping Turtle	2	2	12.83 - 13.29 - 13.74	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 Lake Survey Report contains preliminary data (as of 06/09/2025), and is therefore subject to change at any time.



Minnesota Department of Natural Resources



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REPORT OVERVIEW - FOR OFFICE USE ONLY
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Lake Name: St. James
DOW Number: 83-0043-00

Survey Type: Standard Survey
Survey ID Date: 06/03/2025

Survey Status: Field Work Complete

The following 21 (of 34) 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. Zooplankton Sampling (added to revision 20221130)
16. Catch Summary (Pre-1993 Format) (added to revision 20201001)
17. Length At Capture With Last Incremental Length*
18. Back-Calculated Lengths
19. Age Class Frequency Distributions
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 before noon on 06/09/2025 may not be reflected in the Distribution tables until after 12:30 pm on 06/09/2025.

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