

**Lake Name: Big Twin**  
**DOW Number: 46-0133-00**

**Survey Type: Standard Survey**  
**Survey ID Date: 06/10/2024**

**Lake Identification**

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

DNR Sounding Map Number: C2885  
Alternate Lake Class ID: N/A

**Lake Location**

Primary County: Martin

Nearest Town: Trimont

**Legal Descriptions**

Lake Center: Township - 103N Range - 33W Section - 13  
PLS Section Lake Center: 10303313

**All Legal Descriptions:**

Martin County: Township - 103N Range - 33W Sections - 11, 12, 13, 14

**Area Office**

Area Name: Windom  
Region Name: Southern

ORG Code: F418  
Region Number: 4

**Lake Access**

(Information based on Special Assessment dated 11/08/1994)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	STATE OWNED ACCESS ON EAST SIDE.

**Lake Characteristics**

Lake Area (planimetered acres): 457.00  
GIS Lake Area (acres): 460.75  
DOW Lake Area (acres): 457.00  
Littoral Area (acres): 443.50  
Area in MN (acres): 460.75  
Maximum Depth (feet): 18.0  
Mean Depth (feet): N/A

GIS Shoreline Length (miles): 6.11  
Maximum Fetch (miles): 1.50  
Fetch Orientation (degrees): 360  
USGS Quad Map Number: X11b  
USGS Quad 24K GIS Index: 4621

**Watershed Characteristics**

**Major Watershed**

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

**Minor Watershed**

Name: Elm Cr  
Watershed Number: 76  
Watershed size (acres): 30,240

**Surveys and Investigations**

**Initial Survey:** 06/13/1983.  
**Re-Survey:** 06/26/2000, 06/23/1992.  
**Population Assessment:** 06/18/2012, 06/23/2008, 06/28/2004, 06/24/1996, 06/27/1988.  
**Special Assessment:** 09/27/2000, 09/15/1999, 11/08/1994.  
**Dissolved Oxygen Check:** 02/11/2016, 02/23/2015, 01/03/2014, 01/08/2013, 12/28/2012, 01/11/2012, 12/29/2010, 01/12/2010.  
**Standard Survey:** 06/10/2024, 06/29/2020, 06/27/2016.  
**Targeted Survey:** 09/21/2023, 10/05/2022, 10/05/2020, 02/03/2020, 02/19/2019, 01/18/2018, 07/05/2010, 07/01/2016.

**Water Level History - Readings**

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	06/30/2020	Normal	-6.90	Above or below Benchmark
	06/27/2016	High	-6.60	Above or below Benchmark
	06/18/2012	Normal	-4.20	Above or below Benchmark
	06/24/2008	Normal	-7.30	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	-7.30	06/24/2008	-4.20	06/18/2012	3.10	-6.25	Above or below Benchmark (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	06/10/2024	10.6	0.1	69.1	6.5
			1.0	69.1	6.3
			2.0	68.9	6.2
			3.0	68.9	6.1
			4.0	68.9	6.2
			5.0	68.9	6.2
			6.0	68.9	6.3
			7.0	68.9	6.3
			8.0	68.9	6.3
			9.0	68.7	5.6
			10.0	68.7	5.6
11.0	68.7	5.5			

**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	06/10/2024	Surface	1.5	8.50	220	Brown Grn	N/A

**Net Catch Summary by Numbers for GN**

Standard gill net sets

**Number of Sets:** 3  
**First Set Date:** 06/10/2024  
**Last Lift Date:** 06/13/2024  
**Target Species:** N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 <sup>1</sup>		
				25%	50%	75%
CCF	Channel Catfish	36	12.00	N/A	N/A	N/A
CAP	Common Carp	9	3.00	1.00	3.33	13.75
FRD	Freshwater Drum	22	7.33	0.50	2.56	8.33
WAE	Walleye	76	25.33	2.28	6.83	18.06
YEP	Yellow Perch	5	1.67	2.65	8.00	25.00
Total Fish/Set:			49.33	<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 43 <sup>1</sup>		
					25%	50%	75%
CCF	Channel Catfish	126.88	42.29	3.52	N/A	N/A	N/A
CAP	Common Carp	42.70	14.23	4.74	0.81	1.98	3.70
FRD	Freshwater Drum	51.33	17.11	2.33	0.40	0.82	1.67
WAE	Walleye	87.02	29.01	1.19	1.01	1.53	2.30
YEP	Yellow Perch	2.73	0.91	0.68	0.13	0.21	0.31
Total Pounds Fish/Set:			103.55	<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: 06/10/2024  
Last Lift Date: 06/13/2024  
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 <sup>1</sup>		
				25%	50%	75%
BLB	Black Bullhead	2	0.22	11.50	42.00	132.61
BLC	Black Crappie	10	1.11	1.17	4.88	20.50
BLG	Bluegill	10	1.11	1.17	3.89	20.00
CCF	Channel Catfish	8	0.89	N/A	N/A	N/A
CAP	Common Carp	2	0.22	1.00	2.44	5.51
FRD	Freshwater Drum	1	0.11	0.23	0.92	3.25
LMB	Largemouth Bass	1	0.11	0.23	0.38	0.67
WAE	Walleye	26	2.89	0.50	1.33	2.95
Total Fish/Set:			6.67	<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 43 <sup>1</sup>		
					25%	50%	75%
BLB	Black Bullhead	3.58	0.40	1.79	0.18	0.28	0.40
BLC	Black Crappie	5.05	0.56	0.51	0.22	0.34	0.50
BLG	Bluegill	4.58	0.51	0.46	0.13	0.24	0.39
CCF	Channel Catfish	32.83	3.65	4.10	N/A	N/A	N/A
CAP	Common Carp	13.89	1.54	6.95	1.42	2.92	4.58
FRD	Freshwater Drum	2.47	0.27	2.47	0.28	0.60	0.95
LMB	Largemouth Bass	1.68	0.19	1.68	0.30	0.85	1.53
WAE	Walleye	65.94	7.33	2.54	0.82	1.44	2.28
Total Pounds Fish/Set:			14.45	<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 06/10/2024 and 06/13/2024)

	<u>CAP</u>	<u>CCF</u>	<u>FRD</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	-	-	-	-	-
5.50 - 5.99	-	-	-	-	-
6.00 - 6.49	-	-	-	-	-
6.50 - 6.99	-	-	-	-	-
7.00 - 7.49	-	-	-	-	-
7.50 - 7.99	-	-	-	-	-
8.00 - 8.49	-	-	-	-	-
8.50 - 8.99	-	-	-	-	-
9.00 - 9.49	-	-	-	-	-
9.50 - 9.99	-	-	-	4	-
10.00 - 10.49	-	-	-	13	-
10.50 - 10.99	-	-	-	18	1
11.00 - 11.49	1	-	-	15	3
11.50 - 11.99	2	-	-	2	-
12.00 - 12.99	1	-	-	-	-
13.00 - 13.99	-	-	-	-	-
14.00 - 14.99	-	-	1	-	-
15.00 - 15.99	-	-	4	7	-
16.00 - 16.99	-	1	5	1	-
17.00 - 17.99	-	-	8	2	-
18.00 - 18.99	-	-	2	3	-
19.00 - 19.99	-	1	-	1	-
20.00 - 20.99	-	6	1	3	-
21.00 - 21.99	-	12	1	2	-
22.00 - 22.99	-	7	-	2	-
23.00 - 23.99	-	5	-	-	-
24.00 - 24.99	2	4	-	2	-
25.00 - 25.99	2	-	-	-	-
26.00 - 26.99	-	-	-	-	-
27.00 - 27.99	1	-	-	1	-
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>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>WAE</u>	<u>YEP</u>
Total	9	36	22	76	4
Min. Length	11.02	16.34	14.57	9.69	10.79
Max. Length	27.17	24.41	21.10	27.32	11.42
Mean Length	19.43	21.96	17.10	13.66	11.10
# Measured	9	36	22	68	3
No Lengths for	0	0	0	8	2

**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 06/10/2024 and 06/13/2024)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>LMB</u>	<u>WAE</u>
< 3.00	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	1	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-
5.50 - 5.99	-	-	3	-	-	-	-	-
6.00 - 6.49	-	-	3	-	-	-	-	-
6.50 - 6.99	-	-	-	-	-	-	-	-
7.00 - 7.49	-	-	-	-	-	-	-	-
7.50 - 7.99	-	-	-	-	-	-	-	-
8.00 - 8.49	-	1	-	-	-	-	-	-
8.50 - 8.99	-	3	1	-	-	-	-	-
9.00 - 9.49	-	5	-	-	-	-	-	1
9.50 - 9.99	-	-	-	-	-	-	-	1
10.00 - 10.49	-	-	1	-	-	-	-	4
10.50 - 10.99	-	-	1	-	-	-	-	2
11.00 - 11.49	-	-	-	-	-	-	-	3
11.50 - 11.99	-	-	-	-	-	-	-	-
12.00 - 12.99	-	-	-	-	-	-	-	-
13.00 - 13.99	2	1	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	-	1	-
15.00 - 15.99	-	-	-	-	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	-	-	-	-
18.00 - 18.99	-	-	-	-	-	-	-	1
19.00 - 19.99	-	-	-	-	1	-	-	1
20.00 - 20.99	-	-	-	-	-	-	-	1
21.00 - 21.99	-	-	-	-	2	-	-	2
22.00 - 22.99	-	-	-	-	2	1	-	2
23.00 - 23.99	-	-	-	-	2	-	-	-
24.00 - 24.99	-	-	-	1	-	-	-	3
25.00 - 25.99	-	-	-	1	1	-	-	3
26.00 - 26.99	-	-	-	-	-	-	-	2
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>CCF</u>	<u>FRD</u>	<u>LMB</u>	<u>WAE</u>
Total	2	10	10	2	8	1	1	26
Min. Length	13.86	8.27	3.62	24.80	19.29	22.28	14.49	9.29
Max. Length	13.98	13.39	10.75	25.71	25.98	22.28	14.49	26.30
Mean Length	13.92	9.39	6.93	25.26	22.51	22.28	14.49	17.77
# Measured	2	10	10	2	8	1	1	26
No Lengths for	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	22	1	0.12	0	N/A
	Snapping Turtle	6	6	10.24 - 14.30 - 18.94	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**

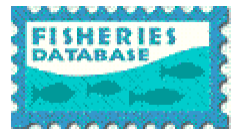
Date Approved By Windom Area Fisheries Supervisor: \_\_\_\_\_

Date Approved By Southern Region Fisheries Manager: \_\_\_\_\_

**This DRAFT VERSION of the Lake Survey Report contains preliminary data (as of 06/14/2024), 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: 20230207-RJE. Data Date: 06/14/2024 at 7:16 am .



# REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Big Twin

Survey Type: Standard Survey

DOW Number: 46-0133-00

Survey ID Date: 06/10/2024

Survey Status: Field Work Complete

The following 23 (of 34) 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. Zooplankton Sampling (added to revision 20221130)
18. Catch Summary (Pre-1993 Format) (added to revision 20201001)
19. Length At Capture With Last Incremental Length\*
20. Back-Calculated Lengths
21. Age Class Frequency Distributions
22. Status Of Fishery And Field Notes
23. 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 before noon on 06/14/2024 may not be reflected in the Distribution tables until after 12:30 pm on 06/14/2024.**

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