

**Lake Name: Flahtery**

**Survey Type: Standard Survey**

**DOW Number: 32-0045-00**

**Survey ID Date: 07/05/2023**

**Lake Identification**

Alternate Lake Name: Flahtery  
Primary Lake Class ID: 43

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

**Lake Location**

Primary County: Jackson

Nearest Town: Lakefield

**Legal Descriptions**

Lake Center: Township - 103N Range - 36W Section - 7  
PLS Section Lake Center: 10303607

**All Legal Descriptions:**

Township - Range - Section -

**Area Office**

Area Name: Windom  
Region Name: Southern

ORG Code: F418  
Region Number: 4

**Lake Characteristics**

Lake Area (planimetered acres): N/A  
GIS Lake Area (acres): 457.33  
DOW Lake Area (acres): 464.00  
Littoral Area (acres): 0.00  
Area in MN (acres): 457.33  
Maximum Depth (feet): 6.2  
Mean Depth (feet): N/A

GIS Shoreline Length (miles): 4.06  
Maximum Fetch (miles): N/A  
Fetch Orientation (degrees): N/A  
USGS Quad Map Number: X09b  
USGS Quad 24K GIS Index: 4617

**Watershed Characteristics**

Major Watershed

Name: Des Moines-Headwaters  
Watershed Number: 51  
Watershed size (acres): 798,595

Minor Watershed

Name: From L Flahtery  
Watershed Number: 100  
Watershed size (acres): 5,133

**Surveys and Investigations**

**Standard Survey:** 07/05/2023, 06/17/2019, 06/30/2015.

**Targeted Survey:** 02/04/2020, 02/05/2019, 01/19/2018.

**Current Water Level**

<u>Station ID</u>	<u>Date</u>	<u>Level</u>	<u>Reading (feet)</u>	<u>Reading Type</u>
BM - 1	07/06/2023	Normal	-7.50	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	07/06/2023	Normal	-7.50	Above or below Benchmark
	06/19/2019	High	-6.60	Above or below Benchmark
	08/12/2015	Normal	-6.50	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	-7.50	07/06/2023	-6.50	08/12/2015	1.00	-6.87	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)
WQ - 1	07/05/2023	6.0	Surface	75.0	5.7
			1.0	75.0	5.4
			2.0	75.0	5.3
			3.0	75.0	5.2
			4.0	75.0	5.2
			5.0	75.0	5.2
			6.0	75.0	4.9

**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	07/05/2023	Surface	0.7	8.70	220	Green	Algae

**Net Catch Summary by Numbers for GN**

Standard gill net sets

Number of Sets: 1  
 First Set Date: 07/05/2023  
 Last Lift Date: 07/06/2023  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 <sup>1</sup>		
				25%	50%	75%
BIB	Bigmouth Buffalo	18	18.00	0.75	2.58	6.96
BLB	Black Bullhead	79	79.00	30.34	75.58	150.62
CAP	Common Carp	3	3.00	1.00	3.33	13.75
WAE	Walleye	34	34.00	2.28	6.83	18.06
WTS	White Sucker	5	5.00	0.81	2.33	6.50
YEB	Yellow Bullhead	2	2.00	0.50	1.50	3.50
YEP	Yellow Perch	1	1.00	2.65	8.00	25.00
Total Fish/Set:			142.00	<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%
BIB	Bigmouth Buffalo	58.06	58.06	2.87	N/A	N/A	N/A
BLB	Black Bullhead	13.59	13.59	0.17	0.17	0.26	0.39
CAP	Common Carp	10.62	10.62	3.54	0.81	1.98	3.70
WAE	Walleye	47.06	47.06	1.38	1.01	1.53	2.30
WTS	White Sucker	4.95	4.95	0.99	0.93	1.58	2.02
YEB	Yellow Bullhead	1.20	1.20	0.60	0.31	0.53	0.73
YEP	Yellow Perch	0.13	0.13	0.13	0.13	0.21	0.31
Total Pounds Fish/Set:			135.63	<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: 07/05/2023  
 Last Lift Date: 07/07/2023  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43 <sup>1</sup>		
				25%	50%	75%
BIB	Bigmouth Buffalo	6	0.67	0.17	0.38	1.04
BLB	Black Bullhead	365	40.56	11.50	42.00	132.61
CAP	Common Carp	2	0.22	1.00	2.44	5.51
FRD	Freshwater Drum	1	0.11	0.23	0.92	3.25
NOP	Northern Pike	1	0.11	N/A	N/A	N/A
OSS	Orangespotted Sunfish	20	2.22	N/A	N/A	N/A
WAE	Walleye	8	0.89	0.50	1.33	2.95
WTS	White Sucker	1	0.11	0.34	0.88	2.58
YEB	Yellow Bullhead	6	0.67	0.50	1.13	2.50
YEP	Yellow Perch	19	2.11	0.33	1.37	3.76
Total Fish/Set:			47.67	<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%
BIB	Bigmouth Buffalo	32.37	3.60	5.40	2.56	3.75	5.83
BLB	Black Bullhead	43.12	4.79	0.10	0.18	0.28	0.40
CAP	Common Carp	9.91	1.10	4.96	1.42	2.92	4.58
FRD	Freshwater Drum	0.43	0.05	0.43	0.28	0.60	0.95
NOP	Northern Pike	3.42	0.38	3.42	N/A	N/A	N/A
OSS	Orangespotted Sunfish	0.47	0.05	0.02	N/A	N/A	N/A
WAE	Walleye	13.15	1.46	1.64	0.82	1.44	2.28
WTS	White Sucker	1.90	0.21	1.90	1.05	1.47	2.04
YEB	Yellow Bullhead	4.67	0.52	0.78	0.31	0.48	0.67
YEP	Yellow Perch	2.24	0.25	0.12	0.11	0.18	0.30
Total Pounds Fish/Set:			12.41	<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 07/05/2023 and 07/06/2023)

	<u>BIB</u>	<u>BLB</u>	<u>CAP</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-
4.00 - 4.49	-	3	-	-	-	-	-
4.50 - 4.99	-	12	-	-	-	-	-
5.00 - 5.49	-	13	-	-	-	-	-
5.50 - 5.99	-	15	-	-	-	-	-
6.00 - 6.49	-	11	-	-	-	-	1
6.50 - 6.99	-	8	-	-	-	-	-
7.00 - 7.49	-	-	-	-	-	-	-
7.50 - 7.99	-	5	-	-	-	-	-
8.00 - 8.49	2	9	-	-	1	-	-
8.50 - 8.99	4	-	-	-	-	-	-
9.00 - 9.49	-	1	-	-	-	1	-
9.50 - 9.99	-	2	-	-	-	-	-
10.00 - 10.49	-	-	-	-	-	1	-
10.50 - 10.99	-	-	-	-	2	-	-
11.00 - 11.49	-	-	-	1	-	-	-
11.50 - 11.99	-	-	1	2	-	-	-
12.00 - 12.99	1	-	-	-	-	-	-
13.00 - 13.99	1	-	1	1	-	-	-
14.00 - 14.99	1	-	-	14	1	-	-
15.00 - 15.99	1	-	-	10	1	-	-
16.00 - 16.99	1	-	-	3	-	-	-
17.00 - 17.99	-	-	-	2	-	-	-
18.00 - 18.99	-	-	-	-	-	-	-
19.00 - 19.99	-	-	-	-	-	-	-
20.00 - 20.99	1	-	-	-	-	-	-
21.00 - 21.99	4	-	-	1	-	-	-
22.00 - 22.99	-	-	-	-	-	-	-
23.00 - 23.99	2	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	-	-
27.00 - 27.99	-	-	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>BIB</u>	<u>BLB</u>	<u>CAP</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	18	79	3	34	5	2	1
Min. Length	8.35	4.17	11.65	11.38	8.35	9.09	6.38
Max. Length	23.70	9.92	27.64	21.14	15.51	10.35	6.38
Mean Length	14.99	6.18	17.51	15.08	11.98	9.72	6.38
# Measured	15	79	3	34	5	2	1
No Lengths for	3	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 07/05/2023 and 07/07/2023)

	<u>BIB</u>	<u>BLB</u>	<u>CAP</u>	<u>FRD</u>	<u>NOP</u>	<u>OSS</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	14	-	-	-	-
3.00 - 3.49	-	-	-	-	-	2	-	-	-	-
3.50 - 3.99	-	1	-	-	-	4	-	-	-	-
4.00 - 4.49	-	4	-	-	-	-	-	-	-	2
4.50 - 4.99	-	28	-	-	-	-	-	-	-	-
5.00 - 5.49	-	66	-	-	-	-	-	-	-	5
5.50 - 5.99	-	151	-	-	-	-	-	-	-	2
6.00 - 6.49	-	63	-	-	-	-	-	-	-	7
6.50 - 6.99	-	13	-	-	-	-	-	-	1	1
7.00 - 7.49	-	13	-	-	-	-	-	-	-	1
7.50 - 7.99	-	13	-	-	-	-	-	-	-	-
8.00 - 8.49	-	-	-	-	-	-	-	-	-	-
8.50 - 8.99	-	1	-	-	-	-	-	-	-	-
9.00 - 9.49	-	1	-	1	-	-	-	-	2	-
9.50 - 9.99	-	13	-	-	-	-	-	-	-	-
10.00 - 10.49	-	-	-	-	-	-	-	-	1	-
10.50 - 10.99	-	-	-	-	-	-	-	-	-	-
11.00 - 11.49	-	-	-	-	-	-	1	-	-	-
11.50 - 11.99	-	-	-	-	-	-	-	-	-	-
12.00 - 12.99	-	-	-	-	-	-	-	-	2	-
13.00 - 13.99	2	-	1	-	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	-	3	-	-	-
15.00 - 15.99	-	-	-	-	-	-	2	-	-	-
16.00 - 16.99	-	-	-	-	-	-	-	1	-	-
17.00 - 17.99	-	-	-	-	-	-	-	-	-	-
18.00 - 18.99	-	-	-	-	-	-	1	-	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-	-
20.00 - 20.99	1	-	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-	-	-	-	-	-
22.00 - 22.99	1	-	-	-	-	-	1	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	1	-	-	-	-	-
25.00 - 25.99	-	-	-	-	-	-	-	-	-	-
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>BIB</u>	<u>BLB</u>	<u>CAP</u>	<u>FRD</u>	<u>NOP</u>	<u>OSS</u>	<u>WAE</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	5	367	2	1	1	20	8	1	6	18
Min. Length	13.46	3.58	13.07	9.29	24.45	2.40	11.38	16.57	6.61	4.41
Max. Length	27.87	9.76	27.87	9.29	24.45	3.98	22.48	16.57	12.68	7.36
Mean Length	19.53	5.51	20.47	9.29	24.45	2.90	15.87	16.57	10.08	5.81
# Measured	5	74	2	1	1	20	8	1	6	16
No Lengths for	1	291	0	0	0	0	0	0	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.

**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	35	0	N/A	0	N/A
	Snapping Turtle	2	2	10.63 - 11.62 - 12.60	0	N/A

**(1) Key to sampling gear abbreviations:**

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

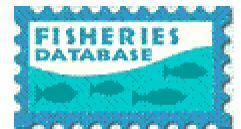
**(2) Gender:** If identified and reported.

**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 07/10/2023), 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: 20230207-RJE. Data Date: 07/10/2023 at 2:36 pm .



## REPORT OVERVIEW - FOR OFFICE USE ONLY

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

**Lake Name: Flahtery**

**Survey Type: Standard Survey**

**DOW Number: 32-0045-00**

**Survey ID Date: 07/05/2023**

**Survey Status:** Field Work Complete

The following 22 (of 34) report components are not included in this Lake Survey Report:

1. Lake Access
2. Water Level History<sup>1</sup>
3. Lake Inlets
4. Additional Inlet Information
5. Lake Outlets
6. Additional Outlet Information
7. Water Control Structure (Dam)
8. Surrounding Watershed Characteristics, Shoreline Characteristics, and Riparian Landscape Observations<sup>2</sup>
9. Resorts And Campgrounds
10. Fish Spawning Conditions
11. Erosion And Pollution
12. Fish Diseases And Parasites
13. Aquatic Vegetation And Shoalwater Substrates
14. Water Quality (Winter Observations) (added to revision 01/21/2010)
15. Laboratory Analysis Of Water Chemistry
16. Zooplankton Sampling (added to revision 20221130)
17. Catch Summary (Pre-1993 Format) (added to revision 20201001)
18. Length At Capture With Last Incremental Length\*
19. Back-Calculated Lengths
20. Age Class Frequency Distributions
21. Status Of Fishery And Field Notes
22. 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 after noon on 07/10/2023 may not be reflected in the Distribution tables until 07/11/2023.**

**FOR OFFICE USE ONLY:** As of revision 20150622, this page is automatically suppressed on signed versions of this report (area supervisor, region manager, research biologist, research supervisor, program staff, or program manager signed).