



# Minnesota Department of Natural Resources

## Fisheries Management

### LAKE SURVEY REPORT



**DRAFT VERSION - PRELIMINARY DATA (AS OF 07/09/2015)**

Lake Name: Flahtery

Survey Type: Standard Survey

DOW Number: 32-0045-00

Survey ID Date: 06/30/2015

#### Lake Identification

Alternate Lake Name: Flaherty  
Primary Lake Class ID:

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): 450.76  
DOW Lake Area (acres): 464.00  
Littoral Area (acres): 0.00  
Area in MN (acres): 450.76  
Maximum Depth (feet): N/A  
Mean Depth (feet): N/A

GIS Shoreline Length (miles): 3.81  
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 Flaherty  
Watershed Number: 100  
Watershed size (acres): 5,133

#### Surveys and Investigations

Standard Survey: 06/30/2015.

#### Riparian Landscape Observations

Soil Types (Primary and Secondary): N/A

Soil Comments: N/A

Number of Homes/Cabins: 6

Comments About Shoreline Development: N/A

**Dissolved Oxygen and Temperature Profile of Lake Water**

<u>Station ID</u>	<u>Sampling Date</u>	<u>Bottom Depth (Feet)</u>	<u>Sample Depth (Feet)</u>	<u>Water Temperature (°F)</u>	<u>Dissolved Oxygen (ppm)</u>
WQ - 1	07/02/2015	6.2	Surface	70.9	8.0
			1.0	70.9	8.1
			2.0	70.9	8.1
			3.0	70.9	8.1
			4.0	70.9	8.1
			5.0	70.9	8.0
			6.0	71.1	3.1

**Field Measurements of Water Quality**

<u>Station ID</u>	<u>Sampling Date</u>	<u>Sample Depth (Feet)</u>	<u>Secchi Depth (Feet)</u>	<u>Field pH</u>	<u>Alkalinity (ppm)</u>	<u>Water Color</u>	<u>Color Cause</u>
WQ - 1	07/02/2015	Surface	1.3	8.20	170	Brown Grn	Algae

### Net Catch Summary by Numbers for GN

#### Standard gill net sets

Number of Sets: 1  
First Set Date: 06/30/2015  
Last Lift Date: 07/01/2015  
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	25%	50%	75%
BIB	Bigmouth Buffalo	9	9.00	N/A	N/A	N/A
BLB	Black Bullhead	73	73.00	N/A	N/A	N/A
WAE	Walleye	1	1.00	N/A	N/A	N/A
WTS	White Sucker	11	11.00	N/A	N/A	N/A
YEP	Yellow Perch	69	69.00	N/A	N/A	N/A
Total Fish/Set:			163.00	* 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	25%	50%	75%
BIB	Bigmouth Buffalo	12.83	12.83	1.43	N/A	N/A	N/A
BLB	Black Bullhead	33.25	33.25	0.46	N/A	N/A	N/A
WAE	Walleye	4.19	4.19	4.19	N/A	N/A	N/A
WTS	White Sucker	9.03	9.03	0.82	N/A	N/A	N/A
YEP	Yellow Perch	10.02	10.02	0.15	N/A	N/A	N/A
Total Pounds Fish/Set:			69.32	* Quartiles for Mean Weight			

### Net Catch Summary by Numbers for TN

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

Number of Sets: 9  
First Set Date: 06/30/2015  
Last Lift Date: 07/02/2015  
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	25%	50%	75%
BIB	Bigmouth Buffalo	2	0.22	N/A	N/A	N/A
BLB	Black Bullhead	31	3.44	N/A	N/A	N/A
CAP	Common Carp	25	2.78	N/A	N/A	N/A
OSS	Orangespotted Sunfish	23	2.56	N/A	N/A	N/A
WTS	White Sucker	1	0.11	N/A	N/A	N/A
YEP	Yellow Perch	95	10.56	N/A	N/A	N/A
Total Fish/Set:			19.67	* 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	25%	50%	75%
BIB	Bigmouth Buffalo	12.02	1.34	6.01	N/A	N/A	N/A
BLB	Black Bullhead	11.73	1.30	0.38	N/A	N/A	N/A
CAP	Common Carp	188.31	20.92	7.53	N/A	N/A	N/A
OSS	Orangespotted Sunfish	0.67	0.07	0.03	N/A	N/A	N/A
WTS	White Sucker	2.43	0.27	2.43	N/A	N/A	N/A
YEP	Yellow Perch	10.09	1.12	0.11	N/A	N/A	N/A
Total Pounds Fish/Set:			25.03	* Quartiles for Mean Weight			

### Length Frequency Distribution for GN

#### Standard gill net sets

(Field work conducted between 06/30/2015 and 07/01/2015)

	<u>BIB</u>	<u>BLB</u>	<u>WAE</u>	<u>WTS</u>	<u>YEP</u>
< 3.00	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-
4.50 - 4.99	-	1	-	-	-
5.00 - 5.49	-	2	-	-	7
5.50 - 5.99	-	-	-	-	27
6.00 - 6.49	-	-	-	-	22
6.50 - 6.99	-	2	-	-	2
7.00 - 7.49	-	5	-	-	-
7.50 - 7.99	-	6	-	1	1
8.00 - 8.49	-	10	-	1	-
8.50 - 8.99	2	14	-	-	4
9.00 - 9.49	1	17	-	-	4
9.50 - 9.99	1	8	-	-	2
10.00 - 10.49	-	3	-	1	-
10.50 - 10.99	-	1	-	-	-
11.00 - 11.49	-	2	-	1	-
11.50 - 11.99	1	-	-	2	-
12.00 - 12.99	-	2	-	2	-
13.00 - 13.99	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-
15.00 - 15.99	1	-	-	2	-
16.00 - 16.99	3	-	-	-	-
17.00 - 17.99	-	-	-	-	-
18.00 - 18.99	-	-	-	-	-
19.00 - 19.99	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-
22.00 - 22.99	-	-	1	-	-
23.00 - 23.99	-	-	-	-	-
24.00 - 24.99	-	-	-	-	-
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>BIB</u>	<u>BLB</u>	<u>WAE</u>	<u>WTS</u>	<u>YEP</u>
Total	9	73	1	10	69
Min. Length	8.78	4.92	22.32	7.87	5.31
Max. Length	16.89	12.83	22.32	15.67	9.96
Mean Length	12.66	8.81	22.32	11.78	6.52
# Measured	9	73	1	10	61
No Lengths for	0	0	0	1	8

**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 06/30/2015 and 07/02/2015)

	<u>BIB</u>	<u>BLB</u>	<u>CAP</u>	<u>OSS</u>	<u>WTS</u>	<u>YEP</u>
< 3.00	-	-	-	8	-	-
3.00 - 3.49	-	-	-	11	-	-
3.50 - 3.99	-	-	-	4	-	-
4.00 - 4.49	-	-	-	-	-	-
4.50 - 4.99	-	1	-	-	-	3
5.00 - 5.49	-	1	-	-	-	16
5.50 - 5.99	-	1	-	-	-	39
6.00 - 6.49	-	2	-	-	-	19
6.50 - 6.99	-	2	-	-	-	10
7.00 - 7.49	-	6	-	-	-	3
7.50 - 7.99	-	3	1	-	-	4
8.00 - 8.49	-	7	-	-	-	-
8.50 - 8.99	-	2	-	-	-	-
9.00 - 9.49	-	1	-	-	-	-
9.50 - 9.99	-	-	-	-	-	-
10.00 - 10.49	-	-	-	-	-	-
10.50 - 10.99	-	1	-	-	-	-
11.00 - 11.49	-	1	-	-	-	-
11.50 - 11.99	-	3	-	-	-	-
12.00 - 12.99	-	-	-	-	-	-
13.00 - 13.99	-	-	1	-	-	-
14.00 - 14.99	-	-	1	-	-	-
15.00 - 15.99	-	-	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	1	-
18.00 - 18.99	-	-	-	-	-	-
19.00 - 19.99	1	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-	-
21.00 - 21.99	-	-	3	-	-	-
22.00 - 22.99	-	-	2	-	-	-
23.00 - 23.99	-	-	3	-	-	-
24.00 - 24.99	-	-	1	-	-	-
25.00 - 25.99	-	-	3	-	-	-
26.00 - 26.99	1	-	2	-	-	-
27.00 - 27.99	-	-	3	-	-	-
28.00 - 28.99	-	-	1	-	-	-
29.00 - 29.99	-	-	1	-	-	-
30.00 - 30.99	-	-	3	-	-	-
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>OSS</u>	<u>WTS</u>	<u>YEP</u>
Total	2	31	25	23	1	94
Min. Length	19.29	4.80	7.60	2.56	17.68	4.84
Max. Length	26.06	11.69	30.79	3.86	17.68	7.87
Mean Length	22.68	8.09	24.06	3.12	17.68	5.94
# Measured	2	31	25	22	1	84
No Lengths for	0	0	0	1	0	11

**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	54	0	N/A	0	N/A
	Snapping Turtle	1	1	12.80	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 07/09/2015), 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: 20150625-RJE. Data Date: 07/09/2015 at 8:36 am .



## 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: 06/30/2015**

**Survey Status:** Active

The following 23 (of 32) report components are not included in this Lake Survey Report:

1. Lake Access
2. Current Water Level
3. Benchmark And Gauge Descriptions / Locations
4. Water Level History<sup>1</sup>
5. Water Level History - Readings\*
6. Water Level History - Station Summary\*
7. Lake Inlets
8. Additional Inlet Information
9. Lake Outlets
10. Additional Outlet Information
11. Water Control Structure (Dam)
12. Resorts And Campgrounds
13. Fish Spawning Conditions
14. Erosion And Pollution
15. Fish Diseases And Parasites
16. Aquatic Vegetation And Shoalwater Substrates
17. Laboratory Analysis Of Water Chemistry
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. Water Quality (Winter Observations) (added to revision 01/21/2010)
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.

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 07/09/2015 may not be reflected in the Distribution tables until after 12:30 pm on 07/09/2015.**

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