



Minnesota Department of Natural Resources Fisheries Management



STANDARD LAKE SURVEY REPORT

DRAFT VERSION - PRELIMINARY DATA (AS OF 05/06/2014)

Lake Name: Louisa

Survey Type: Winter Kill Assessment

DOW Number: 51-0006-00

Survey ID Date: 04/21/2014

Lake Identification

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

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

Lake Location

Primary County: Murray

Nearest Town: Westbrook

Legal Descriptions

Lake Center: Township - 106N Range - 39W Section - 12
PLS Section Lake Center: 10603912

All Legal Descriptions:

Murray County: Township - 106N Range - 39W Sections - 1, 2, 11, 12

Area Office

Area Name: Windom
Region Name: Southern

ORG Code: F418
Region Number: 4

Lake Access

(Information based on Population Assessment dated 07/01/1991)

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): 298.00	GIS Shoreline Length (miles): 3.45
GIS Lake Area (acres): 229.54	Maximum Fetch (miles): 1.00
DOW Lake Area (acres): 211.00	Fetch Orientation (degrees): N/A
Littoral Area (acres): 229.54	USGS Quad Map Number: V08c
Area in MN (acres): 229.54	USGS Quad 24K GIS Index: 4315
Maximum Depth (feet): 8.0	
Mean Depth (feet): N/A	

Watershed Characteristics

Major Watershed

Name: Cottonwood River
Watershed Number: 29
Watershed size (acres): 840,782

Minor Watershed

Name: From L Louisa
Watershed Number: 81
Watershed size (acres): 5,918

Surveys And Investigations

Initial Survey: 06/30/1986.
Population Assessment: 07/01/1991.
Winter Kill Assessment: 04/21/2014.
Dissolved Oxygen Check: 12/31/2013, 01/02/2013, 01/11/2012, 12/28/2010, 01/04/2010.

Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 1
First Set Date: 05/05/2014
Last Lift Date: 05/06/2014
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
(No fish taken)						

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 43*		
					25%	50%	75%
(No fish taken)							

Net Catch Summary by Numbers for STN

Special sampling with trap nets

Number of Sets: 6
 First Set Date: 04/21/2014
 Last Lift Date: 05/06/2014
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
FHM	Fathead Minnow	234	39.00	N/A	N/A	N/A
Total Fish/Set:			39.00	* Quartiles for Number Per Set		

Net Catch Summary by Weight for STN

Special sampling with trap nets

Abbr	Species	Total Weight (Pounds)	Pounds Per Set	Mean Weight	Quartiles for Lake Class 43*		
					25%	50%	75%
FHM	Fathead Minnow	0.00	0.00	0.00	N/A	N/A	N/A
Total Pounds Fish/Set:			0.00	* Quartiles for Mean Weight			

Length Frequency Distribution For STN

Special sampling with trap nets

(Field work conducted between 04/21/2014 and 05/06/2014)

	<u>FHM</u>
< 3.00	7
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	-
10.00 - 10.49	-
10.50 - 10.99	-
11.00 - 11.49	-
11.50 - 11.99	-
12.00 - 12.99	-
13.00 - 13.99	-
14.00 - 14.99	-
15.00 - 15.99	-
16.00 - 16.99	-
17.00 - 17.99	-
18.00 - 18.99	-
19.00 - 19.99	-
20.00 - 20.99	-
21.00 - 21.99	-
22.00 - 22.99	-
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>FHM</u>
Total	7
Min. Length	2.09
Max. Length	2.80
Mean Length	2.49
# Measured	7
No Lengths for	227

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
STN	Painted Turtle	11	0	N/A	0	N/A

(1) **Key to sampling gear abbreviations:**
STN = Special sampling with trap nets

(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 05/06/2014), 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.

Standard Lake Survey Report revision: 03/25/2014-RJE. Data Date: 05/06/2014 at 3:18 pm .

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REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Louisa

Survey Type: Winter Kill Assessment

DOW Number: 51-0006-00

Survey ID Date: 04/21/2014

Survey Status: Field Work Complete

The following 24 (of 31) report components are not included in this report:

1. Current Water Level
2. Benchmark And Gauge Descriptions / Locations
3. Water Level History¹
4. Water Level History - Readings*
5. Water Level History - Station Summary*
6. Lake Inlets
7. Additional Inlet Information
8. Lake Outlets
9. Additional Outlet Information
10. Water Control Structure (Dam)
11. Surrounding Watershed Characteristics, Shoreline Characteristics, and Riparian Landscape Observations²
12. Resorts And Campgrounds
13. Fish Spawning Conditions
14. Erosion And Pollution
15. Fish Diseases And Parasites
16. Aquatic Vegetation And Shoalwater Substrates
17. Dissolved Oxygen And Temperature Profile Of Lake Water
18. Field Measurements Of Water Quality
19. Laboratory Analysis Of Water Chemistry
20. Length At Capture With Last Incremental Length*
21. Back-Calculated Lengths
22. Age Class Frequency Distributions
23. Status Of Fishery And Field Notes
24. Water Quality (Winter Observations) (added to revision 01/21/2010)

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 Standard 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 05/06/2014 may not be reflected in the Distribution tables until 05/07/2014.