



Minnesota Department of Natural Resources
 Fisheries Management
LAKE SURVEY REPORT



DRAFT VERSION - PRELIMINARY DATA (AS OF 07/27/2016)

Lake Name: West Twin

Survey Type: Standard Survey

DOW Number: 42-0074-00

Survey ID Date: 06/20/2016

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: Lyon

Nearest Town: Florence

Legal Descriptions

Lake Center: Township - 109N Range - 43W Section - 30
 PLS Section Lake Center: 10904330

All Legal Descriptions:

Lyon County: Township - 109N Range - 43W Sections - 29, 30, 31, 32

Area Office

Area Name: Windom
 Region Name: Southern

ORG Code: F418
 Region Number: 4

Lake Access

(Information based on Initial Survey dated 07/23/1986)

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):	232.00	GIS Shoreline Length (miles):	2.88
GIS Lake Area (acres):	219.96	Maximum Fetch (miles):	1.00
DOW Lake Area (acres):	237.00	Fetch Orientation (degrees):	N/A
Littoral Area (acres):	219.96	USGS Quad Map Number:	V05a
Area in MN (acres):	219.96	USGS Quad 24K GIS Index:	4210
Maximum Depth (feet):	10.0		
Mean Depth (feet):	N/A		

Watershed Characteristics

Major Watershed

Name: Redwood River
 Watershed Number: 27
 Watershed size (acres): 447,531

Minor Watershed

Name: unknown DNR Minor Wshd
 Watershed Number: 17
 Watershed size (acres): 5,206

Surveys and Investigations

Initial Survey: 07/23/1986.
Re-Survey: 06/27/2005.
Population Assessment: 06/25/2012.
Special Assessment: 08/19/2013, 07/30/1948.
Dissolved Oxygen Check: 02/17/2016, 02/19/2015, 01/02/2014, 02/06/2013, 01/03/2013, 01/10/2012, 12/29/2010, 01/05/2010.

Water Level History - Readings

<u>Station ID</u>	<u>Date</u>	<u>Level</u>	<u>Reading (feet)</u>	<u>Reading Type</u>
BM - 1	06/27/2012	Normal	4.86	Direct Gauge Reading

Water Level History - Station Summary

<u>Station ID</u>	<u>Minimum Level</u>		<u>Maximum Level</u>		<u>Range (feet)</u>	<u>Average Level (feet)</u>	<u>Reading Type (and number of readings)</u>
	<u>Feet</u>	<u>Date</u>	<u>Feet</u>	<u>Date</u>			
BM - 1	4.86	06/27/2012	4.86	06/27/2012	0.00	4.86	Direct Gauge Reading (1)

Electrofishing Catch Summary for EF

Standard electrofishing

Total run-time for all stations: 01:00:00
Total on-time for all stations: 01:00:00
First Sampling Date: 05/17/2016
Last Sampling Date: 05/17/2016
Daylight Sampling: Yes
Target Species: All ages largemouth bass

Abbr	Species	Summary By Numbers			Summary By Weight (pounds)			
		Total Number	Number per Hour		Total Weight	Lbs per Hour		Mean Weight
			Run-Time	On-Time		Run-Time	On-Time	
LMB	Largemouth Bass	196	196.00	196.00	124.32	124.32	124.32	0.63

Length Frequency Distribution for EF

Standard electrofishing

(Field work conducted on 05/17/2016)

	<u>LMB</u>
< 3.00	1
3.00 - 3.49	1
3.50 - 3.99	2
4.00 - 4.49	2
4.50 - 4.99	-
5.00 - 5.49	4
5.50 - 5.99	8
6.00 - 6.49	2
6.50 - 6.99	-
7.00 - 7.49	-
7.50 - 7.99	-
8.00 - 8.49	3
8.50 - 8.99	21
9.00 - 9.49	44
9.50 - 9.99	47
10.00 - 10.49	36
10.50 - 10.99	13
11.00 - 11.49	-
11.50 - 11.99	-
12.00 - 12.99	1
13.00 - 13.99	4
14.00 - 14.99	-
15.00 - 15.99	1
16.00 - 16.99	1
17.00 - 17.99	1
18.00 - 18.99	1
19.00 - 19.99	3
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>LMB</u>
Total	196
Min. Length	2.80
Max. Length	19.45
Mean Length	9.57
# Measured	196
No Lengths for	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

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 07/27/2016), 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: West Twin
DOW Number: 42-0074-00

Survey Type: Standard Survey
Survey ID Date: 06/20/2016

Survey Status: Proposed

The following 24 (of 32) report components are not included in this Lake Survey Report:

1. Current Water Level
2. Benchmark And Gauge Descriptions / Locations
3. Water Level History¹
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 Observations²
10. Resorts And Campgrounds
11. Fish Spawning Conditions
12. Erosion And Pollution
13. Fish Diseases And Parasites
14. Aquatic Vegetation And Shoalwater Substrates
15. Dissolved Oxygen And Temperature Profile Of Lake Water
16. Field Measurements Of Water Quality
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. Other Species (added to revision 03/24/2009)
23. Water Quality (Winter Observations) (added to revision 01/21/2010)
24. 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 after noon on 07/27/2016 may not be reflected in the Distribution tables until 07/28/2016.

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