



Minnesota Department of Natural Resources  
Fisheries Management



STANDARD LAKE SURVEY REPORT

**DRAFT VERSION - PRELIMINARY DATA (AS OF 05/09/2014)**

Lake Name: East Chain  
DOW Number: 46-0010-00

Survey Type: Special Assessment  
Survey ID Date: 05/08/2014

**SPECIAL ASSESSMENT  
Trap Netting**

**Lake Identification**

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

DNR Sounding Map Number: C0454  
Alternate Lake Class ID: N/A

**Lake Location**

Primary County: Martin

Nearest Town: East Chain

**Legal Descriptions**

Lake Center: Township - 101N Range - 29W Section - 19  
PLS Section Lake Center: 10102919

**All Legal Descriptions:**

Martin County: Township - 101N Range - 29W Sections - 7, 18, 19, 30  
Township - 101N Range - 30W Sections - 13, 24, 25

**Area Office**

Area Name: Windom  
Region Name: Southern

ORG Code: F418  
Region Number: 4

**Lake Access**

(Information based on Re-Survey dated 07/07/1997)

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): 485.00	GIS Shoreline Length (miles): 5.90
GIS Lake Area (acres): 480.75	Maximum Fetch (miles): 2.00
DOW Lake Area (acres): 485.00	Fetch Orientation (degrees): 360
Littoral Area (acres): 480.75	USGS Quad Map Number: X12d
Area in MN (acres): 480.75	USGS Quad 24K GIS Index: 4724
Maximum Depth (feet): 6.0	
Mean Depth (feet): N/A	

**Watershed Characteristics**

**Major Watershed**

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

**Minor Watershed**

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Name: Sager L  
 Watershed Number: 62  
 Watershed size (acres): 5,253

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**Surveys And Investigations**

**Re-Survey:** 07/07/1997.  
**Population Assessment:** 07/08/2013, 07/02/2001, 07/06/1992.  
**Special Assessment:** 05/08/2014, 04/15/1997.  
**Winter Kill Assessment:** 04/15/2009.  
**Dissolved Oxygen Check:** 01/03/2014, 01/08/2013, 12/28/2012, 01/18/2011, 01/15/2010.

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**Water Level History - Readings**

<u>Station ID</u>	<u>Date</u>	<u>Level</u>	<u>Reading (feet)</u>	<u>Reading Type</u>
BM - 1	07/11/2013	Normal	-2.90	Above or below Benchmark

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**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	-2.90	07/11/2013	-2.90	07/11/2013	0.00	-2.90	Above or below Benchmark (1)

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**Net Catch Summary by Numbers for STN**

Special sampling with trap nets

Number of Sets: 4  
 First Set Date: 05/08/2014  
 Last Lift Date: 05/09/2014  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BIB	Bigmouth Buffalo	28	7.00	N/A	N/A	N/A
BLB	Black Bullhead	1,161	290.25	N/A	N/A	N/A
Total Fish/Set:			297.25	* 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%
BIB	Bigmouth Buffalo	191.31	47.83	6.83	N/A	N/A	N/A
BLB	Black Bullhead	285.95	71.49	0.25	N/A	N/A	N/A
Total Pounds Fish/Set:			119.32	* Quartiles for Mean Weight			

**Length Frequency Distribution For STN**

**Special sampling with trap nets**

(Field work conducted between 05/08/2014 and 05/09/2014)

	<u>BIB</u>	<u>BLB</u>
< 3.00	-	-
3.00 - 3.49	-	-
3.50 - 3.99	-	-
4.00 - 4.49	-	2
4.50 - 4.99	-	-
5.00 - 5.49	-	2
5.50 - 5.99	-	-
6.00 - 6.49	-	-
6.50 - 6.99	-	-
7.00 - 7.49	-	1
7.50 - 7.99	-	-
8.00 - 8.49	-	1
8.50 - 8.99	-	1
9.00 - 9.49	-	2
9.50 - 9.99	-	1
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	1	-
18.00 - 18.99	1	-
19.00 - 19.99	1	-
20.00 - 20.99	3	-
21.00 - 21.99	-	-
22.00 - 22.99	-	-
23.00 - 23.99	1	-
24.00 - 24.99	-	-
25.00 - 25.99	-	-
26.00 - 26.99	1	-
27.00 - 27.99	2	-
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>
Total	10	10
Min. Length	17.44	4.06
Max. Length	27.20	9.84
Mean Length	22.12	7.11
# Measured	10	10
No Lengths for	18	1151

**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 Standard Lake Survey Report contains preliminary data (as of 05/09/2014), 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.

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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 )

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Lake Name: East Chain

Survey Type: Special Assessment

DOW Number: 46-0010-00

Survey ID Date: 05/08/2014

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### Trap Netting

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Survey Status: Field Work Complete

The following 23 (of 31) report components are not included in this 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. 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)

<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 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 05/09/2014 may not be reflected in the Distribution tables until 05/10/2014.**