



Minnesota Department of Natural Resources

Fisheries Management



STANDARD LAKE SURVEY REPORT

DRAFT VERSION - PRELIMINARY DATA (AS OF 04/28/2014)

Lake Name: Wilmert (main bay)

Survey Type: Winter Kill Assessment

DOW Number: 46-0014-01

Survey ID Date: 04/21/2014

Lake Identification

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

DNR Sounding Map Number: C0460
Alternate Lake Class ID: N/A

Lake Location

Primary County: Martin

Nearest Town: Fairmont

Legal Descriptions

Lake Center: Township - 101N Range - 30W Section - 7
PLS Section Lake Center: 10103007

All Legal Descriptions:

Martin County: Township - 101N Range - 30W Sections - 7, 18

Area Office

Area Name: Windom
Region Name: Southern

ORG Code: F418
Region Number: 4

Lake Access

(Information based on Re-Survey dated 08/30/2010)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Asphalt	Needs maintenance. Gravel on top of access ramp causing truck tires to spin out when loading out boat.

Lake Characteristics

Lake Area (planimetered acres): 362.00
GIS Lake Area (acres): 335.44
DOW Lake Area (acres): 362.00
Littoral Area (acres): 335.44
Area in MN (acres): 335.44
Maximum Depth (feet): 8.0
Mean Depth (feet): N/A

GIS Shoreline Length (miles): 3.27
Maximum Fetch (miles): 1.14
Fetch Orientation (degrees): 315
USGS Quad Map Number: X12c
USGS Quad 24K GIS Index: 4723

Watershed Characteristics

Major Watershed

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

Minor Watershed

Name: From Amber L
Watershed Number: 66
Watershed size (acres): 11,904

Surveys And Investigations

Initial Survey: 09/04/1990.

Re-Survey: 08/30/2010, 08/27/2001, 08/25/1997, 08/30/1993.

Population Assessment: 08/25/1997.

Special Assessment: 10/20/1999, 09/09/1997, 07/07/1950.

Winter Kill Assessment: 04/21/2014.

Dissolved Oxygen Check: 01/03/2014, 01/08/2013, 02/05/2010.

Net Catch Summary by Numbers for STN

Special sampling with trap nets

Number of Sets: 4
First Set Date: 04/21/2014
Last Lift Date: 04/22/2014
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BIB	Bigmouth Buffalo	395	98.75	N/A	N/A	N/A
BLB	Black Bullhead	21	5.25	N/A	N/A	N/A
BLC	Black Crappie	92	23.00	N/A	N/A	N/A
CAP	Common Carp	13	3.25	N/A	N/A	N/A
FRD	Freshwater Drum	5	1.25	N/A	N/A	N/A
NOP	Northern Pike	1	0.25	N/A	N/A	N/A
WAE	Walleye	114	28.50	N/A	N/A	N/A
WHC	White Crappie	10	2.50	N/A	N/A	N/A
WTS	White Sucker	1	0.25	N/A	N/A	N/A
YEP	Yellow Perch	1,780	445.00	N/A	N/A	N/A
Total Fish/Set:			608.00	* 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%
BIB	Bigmouth Buffalo	100.72	25.18	0.25	N/A	N/A	N/A
BLB	Black Bullhead	11.27	2.82	0.54	N/A	N/A	N/A
BLC	Black Crappie	55.29	13.82	0.60	N/A	N/A	N/A
CAP	Common Carp	31.12	7.78	2.39	N/A	N/A	N/A
FRD	Freshwater Drum	0.15	0.04	0.03	N/A	N/A	N/A
NOP	Northern Pike	10.25	2.56	10.25	N/A	N/A	N/A
WAE	Walleye	81.25	20.31	0.71	N/A	N/A	N/A
WHC	White Crappie	0.33	0.08	0.03	N/A	N/A	N/A
WTS	White Sucker	0.00	0.00	0.00	N/A	N/A	N/A
YEP	Yellow Perch	203.28	50.82	0.11	N/A	N/A	N/A
Total Pounds Fish/Set:			123.42	* Quartiles for Mean Weight			

Length Frequency Distribution For STN

Special sampling with trap nets

(Field work conducted between 04/21/2014 and 04/22/2014)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>FRD</u>	<u>NOP</u>	<u>WAE</u>	<u>WHC</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	1	-
3.50 - 3.99	-	-	5	-	-	-	-	4	249
4.00 - 4.49	-	-	16	-	3	-	-	2	997
4.50 - 4.99	-	2	5	-	2	-	-	3	-
5.00 - 5.49	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	-	-	1	-	-	-	-	-
6.00 - 6.49	15	-	-	3	-	-	-	-	-
6.50 - 6.99	31	3	-	4	-	-	-	-	-
7.00 - 7.49	31	-	-	1	-	-	-	-	-
7.50 - 7.99	123	3	-	-	-	-	-	-	-
8.00 - 8.49	15	-	-	-	-	-	-	-	-
8.50 - 8.99	-	-	-	-	-	-	3	-	379
9.00 - 9.49	-	-	-	-	-	-	22	-	135
9.50 - 9.99	-	-	-	-	-	-	24	-	-
10.00 - 10.49	-	5	-	-	-	-	7	-	-
10.50 - 10.99	-	3	33	-	-	-	-	-	-
11.00 - 11.49	-	4	-	-	-	-	-	-	5
11.50 - 11.99	-	3	33	-	-	-	-	-	-
12.00 - 12.99	-	-	-	-	-	-	-	-	-
13.00 - 13.99	-	-	-	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	-	1	-	-
15.00 - 15.99	-	-	-	-	-	-	1	-	-
16.00 - 16.99	-	-	-	-	-	-	3	-	-
17.00 - 17.99	-	-	-	-	-	-	3	-	-
18.00 - 18.99	-	-	-	-	-	-	3	-	-
19.00 - 19.99	-	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-	-	2	-	-
21.00 - 21.99	-	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	-	-	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	2	-	-	-	-	-
25.00 - 25.99	-	-	-	1	-	-	-	-	-
26.00 - 26.99	-	-	-	1	-	-	-	-	-
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	-	-	-	-	-	1	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>FRD</u>	<u>NOP</u>	<u>WAE</u>	<u>WHC</u>	<u>YEP</u>
Total	215	23	92	13	5	1	69	10	1765
Min. Length	6.26	4.80	3.98	5.79	4.09	33.46	8.98	3.46	3.70
Max. Length	8.43	11.97	11.73	26.42	4.76	33.46	20.94	4.84	11.06
Mean Length	7.53	9.12	5.45	12.27	4.45	33.46	12.65	4.13	6.34
# Measured	14	11	12	13	3	1	30	10	18
No Lengths for	381	10	80	0	2	0	84	0	1762

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 04/28/2014), 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: 04/28/2014 at 10:26 am .

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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: Wilmert (main bay)

Survey Type: Winter Kill Assessment

DOW Number: 46-0014-01

Survey ID Date: 04/21/2014

Survey Status: Field Work Complete

The following 25 (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. Other Species (added to revision 03/24/2009)
25. 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 before noon on 04/28/2014 may not be reflected in the Distribution tables until after 12:30 pm on 04/28/2014.