



Minnesota Department of Natural Resources Fisheries Management



STANDARD LAKE SURVEY REPORT

DRAFT VERSION - PRELIMINARY DATA (AS OF 05/19/2014)

Lake Name: Talcot

Survey Type: Winter Kill Assessment

DOW Number: 17-0060-00

Survey ID Date: 04/07/2014

Lake Identification

Alternate Lake Name: Talcott
Primary Lake Class ID: 43

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

Lake Location

Primary County: Cottonwood

Nearest Town: Dundee

All Counties: Cottonwood, Murray.

Legal Descriptions

Lake Center: Township - 105N Range - 38W Section - 19
PLS Section Lake Center: 10503819

All Legal Descriptions:

Cottonwood County: Township - 105N Range - 38W Sections - 19, 20, 30
Murray County: Township - 105N Range - 39W Sections - 24, 25

Area Office

Area Name: Windom
Region Name: Southern

ORG Code: F418
Region Number: 4

Lake Access

(Information based on Re-Survey dated 07/31/1995)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	STATE OWNED ACCESS ON SOUTHSORE.
AC - 2	DNR	Open to Public use	Carry-In	STATE OWNED CANOE ACCESS ON DES MOINES RIVER.

Lake Characteristics

Lake Area (planimetered acres): 678.00	GIS Shoreline Length (miles): 8.54
GIS Lake Area (acres): 873.05	Maximum Fetch (miles): 2.00
DOW Lake Area (acres): 928.00	Fetch Orientation (degrees): 45
Littoral Area (acres): 873.05	USGS Quad Map Number: W08b
Area in MN (acres): 873.05	USGS Quad 24K GIS Index: 4415
Maximum Depth (feet): 6.0	
Mean Depth (feet): N/A	

Watershed Characteristics

Major Watershed

Name: Des Moines-Headwaters
 Watershed Number: 51
 Watershed size (acres): 798,595

Minor Watershed

Name: Talcot L
 Watershed Number: 25
 Watershed size (acres): 7,297

Surveys And Investigations

Initial Survey: 08/05/1985.
Re-Survey: 07/29/2002, 07/31/1995.
Population Assessment: 07/26/2010, 07/24/2006, 08/02/1999, 07/29/1991, 07/23/1990, 07/24/1989.
Special Assessment: 10/04/2006, 10/11/2004, 10/07/2003, 10/07/2002, 09/13/2001, 09/12/2000, 09/14/1999, 09/21/1998, 09/24/1997, 09/24/1996, 09/27/1995.
Winter Kill Assessment: 04/07/2014.
Dissolved Oxygen Check: 01/02/2014, 02/07/2013, 01/07/2013, 01/21/2010.
Natural Reproduction Check: 10/16/2013, 10/16/2012, 10/26/2011, 10/18/2010, 10/08/2008, 10/11/2007.

Water Level History - Readings

<u>Station ID</u>	<u>Date</u>	<u>Level</u>	<u>Reading (feet)</u>	<u>Reading Type</u>
BM - 1	07/29/2010	High	3.10	Above or below Benchmark
	07/24/2006	Normal	-3.60	Above or below Benchmark

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	-3.60	07/24/2006	3.10	07/29/2010	6.70	-0.25	Above or below Benchmark (2)

Net Catch Summary by Numbers for STN

Special sampling with trap nets

Number of Sets: 6
First Set Date: 04/07/2014
Last Lift Date: 04/08/2014
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BIB	Bigmouth Buffalo	120	20.00	N/A	N/A	N/A
BLB	Black Bullhead	24	4.00	N/A	N/A	N/A
BLC	Black Crappie	1	0.17	N/A	N/A	N/A
CAP	Common Carp	5	0.83	N/A	N/A	N/A
NOP	Northern Pike	24	4.00	N/A	N/A	N/A
QBS	Quillback	1	0.17	N/A	N/A	N/A
TPM	Tadpole Madtom	2	0.33	N/A	N/A	N/A
WAE	Walleye	8	1.33	N/A	N/A	N/A
YEP	Yellow Perch	160	26.67	N/A	N/A	N/A
Total Fish/Set:			57.50	* 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	0.00	0.00	0.00	N/A	N/A	N/A
BLB	Black Bullhead	0.00	0.00	0.00	N/A	N/A	N/A
BLC	Black Crappie	0.00	0.00	0.00	N/A	N/A	N/A
CAP	Common Carp	0.00	0.00	0.00	N/A	N/A	N/A
NOP	Northern Pike	0.00	0.00	0.00	N/A	N/A	N/A
QBS	Quillback	0.00	0.00	0.00	N/A	N/A	N/A
TPM	Tadpole Madtom	0.00	0.00	0.00	N/A	N/A	N/A
WAE	Walleye	0.00	0.00	0.00	N/A	N/A	N/A
YEP	Yellow Perch	0.00	0.00	0.00	N/A	N/A	N/A
Total Pounds Fish/Set:			0.00	* Quartiles for Mean Weight			

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 05/19/2014), 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: 05/19/2014 at 10:49 am .

REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Talcot

Survey Type: Winter Kill Assessment

DOW Number: 17-0060-00

Survey ID Date: 04/07/2014

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. 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 Frequency Distributions
19. Length At Capture With Last Incremental Length*
20. Back-Calculated Lengths
21. Age Class Frequency Distributions
22. Status Of Fishery And Field Notes
23. Other Species (added to revision 03/24/2009)
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 before noon on 05/19/2014 may not be reflected in the Distribution tables until after 12:30 pm on 05/19/2014.