

Minnesota Department of Natural Resources **Fisheries Management**



STANDARD LAKE SURVEY REPORT

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

Survey Type: Winter Kill Assessment Lake Name: Kinbrae

Survey ID Date: 04/22/2014 DOW Number: 53-0016-00

Lake Identification

Alternate Lake Name: Clear DNR Sounding Map Number: N/A Primary Lake Class ID: 43 Alternate Lake Class ID: N/A

Lake Location

Primary County: Nobles Nearest Town: Kinbrae

Legal Descriptions

Lake Center: Township - 104N Range - 39W Section - 11

PLS Section Lake Center: 10403911

All Legal Descriptions:

Section - 11 Nobles County: Township - 104N Range - 39W

Area Office

Area Name: Windom ORG Code: F418 Region Name: Southern Region Number: 4

Lake Access

(Information based on Population Assessment dated 06/13/1994)

Station ID Ownership **Public Use Location / Comments** Type

(Data excludes records where public use is not designated or is designated "No Public Use")

Lake Characteristics

Lake Area (planimetered acres): 120.00 GIS Shoreline Length (miles): 1.95

GIS Lake Area (acres): 93.94 Maximum Fetch (miles): 0.70 DOW Lake Area (acres): 87.00 Fetch Orientation (degrees): 22 Littoral Area (acres): 93.94 USGS Quad Map Number: W08c USGS Quad 24K GIS Index: 4515 Area in MN (acres): 93.94

Maximum Depth (feet): 7.0 Mean Depth (feet): N/A

Watershed Characteristics

Major Watershed Minor Watershed

Name: Des Moines-Headwaters Name: Talcot L

Watershed Number: 51 Watershed Number:

798,595 7,297 Watershed size (acres): Watershed size (acres):



Surveys And Investigations

Re-Survey: 06/06/2006.

Population Assessment: 06/04/2012, 06/05/2000, 06/13/1994, 07/12/1989.

Winter Kill Assessment: 04/22/2014.

Dissolved Oxygen Check: 12/30/2013, 02/07/2013, 01/07/2013, 02/17/2012, 01/26/2012, 12/28/2010, 01/11/2010.

Water Level History - Readings

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	06/04/2012	N/A	N/A	Not Found
	06/13/2006	High	-3.50	Above or below Benchmark
BM - 2	06/07/2012	Normal	-1.50	Above or below Benchmark

Water Level History - Station Summary

	Minim	um Level	Maxim	um Level	Range	Average	Reading Type
Station ID	Feet	Date	Feet	Date	(feet)	Level (feet)	(and number of readings)
BM - 1	-3.50	06/13/2006	-3.50	06/13/2006	0.00	-3.50	Above or below Benchmark (1)
BM - 1	N/A	N/A	N/A	N/A	N/A	N/A	Not Found - 06/04/2012 (0)
BM - 2	-1.50	06/07/2012	-1.50	06/07/2012	0.00	-1.50	Above or below Benchmark (1)

Net Catch Summary by Numbers for STN

Special sampling with trap nets

Number of Sets: 4

First Set Date: 04/22/2014 Last Lift Date: 04/23/2014 Target Species: N/A

Quartiles	for	Lake	Class	43*
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Abbr	Species	Total Fish	Number Per Set	25%	50%	75%
BLB	Black Bullhead	852	213.00	N/A	N/A	N/A
		Total Fish/Set:	213.00	* Quartile	es for Number P	er Set

Net Catch Summary by Weight for <u>STN</u>

Special sampling with trap nets

		Total Weight	Pounds	Mean	Quartiles	for Lake Clas	s 43*
Abbr	Species	(Pounds)	Per Set	Weight	25%	50%	75%
BLB	Black Bullhead	71.52	17.88	0.08	N/A	N/A	N/A
		Total Pounds Fish/Set:	17.88		* Quarti	les for Mean W	eight //

Length Frequency Distribution For STN

Special sampling with trap nets

(Field work conducted between 04/22/2014 and 04/23/2014)

,	BLB
< 3.00	-
3.00 - 3.49	-
3.50 - 3.99	-
4.00 - 4.49	32
4.50 - 4.99	17
5.00 - 5.49	
5.50 - 5.99	6
	-
6.00 - 6.49	_
6.50 - 6.99	-
7.00 - 7.49	-
7.50 - 7.99	6
8.00 - 8.49	1
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	_
34.00 - 34.99 35.00 - 35.99	-
	_
= > 36.00	-
	BLB

	BLB
Total	62
Min. Length	4.29
Max. Length	8.46
Mean Length	5.10
# Measured	14
No Lengths for	838

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	3		N/A	0	N/A
	Snapping Turtle	1	0	N/A	0	N/A

(1) Key to sampling gear abbreviations:

STN = Special sampling with trap nets

(2) Gender: If identified and reported.



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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.

REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Kinbrae Survey Type: Winter Kill Assessment

DOW Number: 53-0016-00 Survey ID Date: 04/22/2014

Survey Status: Field Work Complete

The following 22 (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
- 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 Measusrements 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. Water Quality (Winter Observations) (added to revision 01/21/2010)

- * 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.

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.