



Minnesota Department of Natural Resources
Fisheries Management



STANDARD LAKE SURVEY REPORT

DRAFT VERSION - PRELIMINARY DATA (AS OF 05/02/2014)

Lake Name: Heron (South Heron)

Survey Type: Winter Kill Assessment

DOW Number: 32-0057-07

Survey ID Date: 05/01/2014

Lake Identification

Alternate Lake Name: N/A
Primary Lake Class ID: 41

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

Lake Location

Primary County: Jackson

Nearest Town: Lakefield

Legal Descriptions

Lake Center: Township - 103N Range - 37W Section - 13
PLS Section Lake Center: 10303713

All Legal Descriptions:

Jackson County: Township - 103N Range - 36W Sections - 19, 29, 30
Township - 103N Range - 37W (Eleven various sections)

Area Office

Area Name: Windom
Region Name: Southern

ORG Code: F418
Region Number: 4

Lake Access

(Information based on Population Assessment dated 07/06/1993)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Carry-In	DNR access on Northwest side T-103 R-37 S-15.
AC - 2	County	Open to Public use	Concrete	County access on east side T-103 R-36 S-19.
AC - 3	County	Open to Public use	Concrete	County access on West side T-103 R-37 S-24.

Lake Characteristics

Lake Area (planimetered acres): 2845.00	GIS Shoreline Length (miles): 14.43
GIS Lake Area (acres): 2641.39	Maximum Fetch (miles): 5.05
DOW Lake Area (acres): 0.00	Fetch Orientation (degrees): 315
Littoral Area (acres): 2641.39	USGS Quad Map Number: X09b
Area in MN (acres): 2641.39	USGS Quad 24K GIS Index: 4617
Maximum Depth (feet): 5.0	
Mean Depth (feet): 3.0	

Watershed Characteristics

Major Watershed

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

Minor Watershed

Name: Division Cr
Watershed Number: 95
Watershed size (acres): 16,116

Surveys And Investigations

Re-Survey: 07/08/1991, 07/06/1987, 09/08/1981.

Population Assessment: 06/13/2011, 07/06/1999, 06/29/1998, 07/14/1997, 07/01/1996, 07/10/1995, 07/05/1994,
07/06/1993.

Winter Kill Assessment: 05/01/2014.

Dissolved Oxygen Check: 01/14/2011.

Net Catch Summary by Numbers for STN

Special sampling with trap nets

Number of Sets: 4
First Set Date: 05/01/2014
Last Lift Date: 05/02/2014
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 41*		
				25%	50%	75%
BIB	Bigmouth Buffalo	16	4.00	N/A	N/A	N/A
BLB	Black Bullhead	2	0.50	N/A	N/A	N/A
CAP	Common Carp	20	5.00	N/A	N/A	N/A
NOP	Northern Pike	1	0.25	N/A	N/A	N/A
WAE	Walleye	2	0.50	N/A	N/A	N/A
WTS	White Sucker	2	0.50	N/A	N/A	N/A
YEP	Yellow Perch	1	0.25	N/A	N/A	N/A
Total Fish/Set:			11.00	* 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 41*		
					25%	50%	75%
BIB	Bigmouth Buffalo	7.93	1.98	0.50	N/A	N/A	N/A
BLB	Black Bullhead	0.19	0.05	0.10	N/A	N/A	N/A
CAP	Common Carp	103.82	25.95	5.19	N/A	N/A	N/A
NOP	Northern Pike	3.70	0.92	3.70	N/A	N/A	N/A
WAE	Walleye	4.57	1.14	2.29	N/A	N/A	N/A
WTS	White Sucker	2.31	0.58	1.15	N/A	N/A	N/A
YEP	Yellow Perch	0.06	0.01	0.06	N/A	N/A	N/A
Total Pounds Fish/Set:			30.64	* Quartiles for Mean Weight			

Length Frequency Distribution For STN

Special sampling with trap nets

(Field work conducted between 05/01/2014 and 05/02/2014)

	<u>BIB</u>	<u>BLB</u>	<u>CAP</u>	<u>NOP</u>	<u>WAE</u>	<u>WTS</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-
4.00 - 4.49	-	1	-	-	-	-	-
4.50 - 4.99	1	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	1
5.50 - 5.99	6	-	-	-	-	-	-
6.00 - 6.49	1	-	-	-	-	-	-
6.50 - 6.99	2	1	-	-	-	1	-
7.00 - 7.49	4	-	-	-	-	-	-
7.50 - 7.99	-	-	-	-	-	-	-
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	-	-	-	-	1	1	-
18.00 - 18.99	-	-	-	-	-	-	-
19.00 - 19.99	-	-	1	-	1	-	-
20.00 - 20.99	-	-	3	-	-	-	-
21.00 - 21.99	1	-	5	-	-	-	-
22.00 - 22.99	-	-	-	-	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-
24.00 - 24.99	-	-	5	-	-	-	-
25.00 - 25.99	-	-	-	1	-	-	-
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>BIB</u>	<u>BLB</u>	<u>CAP</u>	<u>NOP</u>	<u>WAE</u>	<u>WTS</u>	<u>YEP</u>
Total	16	2	14	1	2	2	1
Min. Length	4.88	4.29	19.72	25.94	17.76	6.61	5.16
Max. Length	21.06	6.61	24.84	25.94	19.92	17.36	5.16
Mean Length	7.33	5.45	22.19	25.94	18.84	11.99	5.16
# Measured	16	2	11	1	2	2	1
No Lengths for	0	0	9	0	0	0	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 Standard Lake Survey Report contains preliminary data (as of 05/02/2014), 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)

Lake Name: Heron (South Heron)

Survey Type: Winter Kill Assessment

DOW Number: 32-0057-07

Survey ID Date: 05/01/2014

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 after noon on 05/02/2014 may not be reflected in the Distribution tables until 05/03/2014.