



# Minnesota Department of Natural Resources Fisheries Management



## STANDARD LAKE SURVEY REPORT

**DRAFT VERSION - PRELIMINARY DATA (AS OF 06/19/2014)**

Lake Name: Perch

Survey Type: Population Assessment

DOW Number: 46-0046-00

Survey ID Date: 06/16/2014

### Lake Identification

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

DNR Sounding Map Number: C0456  
Alternate Lake Class ID: N/A

### Lake Location

Primary County: Martin

Nearest Town: Truman

### Legal Descriptions

Lake Center: Township - 104N Range - 30W Section - 19  
PLS Section Lake Center: 10403019

**All Legal Descriptions:**

Martin County: Township - 104N Range - 30W Sections - 18, 19

### Area Office

Area Name: Windom  
Region Name: Southern

ORG Code: F418  
Region Number: 4

### Lake Access

(Information based on Population Assessment dated 06/11/2008)

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): 175.00	GIS Shoreline Length (miles): 2.68
GIS Lake Area (acres): 174.27	Maximum Fetch (miles): 1.10
DOW Lake Area (acres): 201.00	Fetch Orientation (degrees): 360
Littoral Area (acres): 174.27	USGS Quad Map Number: W12c
Area in MN (acres): 174.27	USGS Quad 24K GIS Index: 4523
Maximum Depth (feet): 5.0	
Mean Depth (feet): N/A	

### Watershed Characteristics

**Major Watershed**

Name: Watonwan River  
Watershed Number: 31  
Watershed size (acres): 558,963

**Minor Watershed**

Name: Perch Cr  
Watershed Number: 3  
Watershed size (acres): 5,023

### Surveys And Investigations

Initial Survey: 06/09/1992.  
Population Assessment: 06/16/2014, 06/11/2008, 06/10/2002, 06/09/1997.  
Special Assessment: 04/16/1997.

### Current Water Level

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	06/18/2014	High	-1.80	Above or below Benchmark

### Benchmark and Gauge Descriptions / Locations

Station ID	Location Description
BM - 1	N/A

### Water Level History - Readings

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	06/18/2014	High	-1.80	Above or below Benchmark
	06/13/2008	High	-1.90	Above or below Benchmark

### Water Level History - Station Summary

Station ID	Minimum Level		Maximum Level		Range (feet)	Average Level (feet)	Reading Type (and number of readings)
	Feet	Date	Feet	Date			
BM - 1	-1.90	06/13/2008	-1.80	06/18/2014	0.10	-1.85	Above or below Benchmark (2)

### Dissolved Oxygen And Temperature Profile Of Lake Water

Station ID	Sampling Date	Bottom Depth (Feet)	Sample Depth (Feet)	Water Temperature (°F)	Dissolved Oxygen (ppm)
WQ - 1	06/17/2014	4.6	Surface	67.3	8.4
			1.0	67.3	8.2
			2.0	67.3	8.2
			3.0	67.3	8.1
			4.0	67.1	7.9
			4.5	66.7	7.9

### Field Measurements Of Water Quality

Station ID	Sampling Date	Sample Depth (Feet)	Secchi Depth (Feet)	Field pH	Alkalinity (ppm)	Water Color	Color Cause
WQ - 1	06/17/2014	Surface	2.1	8.00	240	Brown Grn	Algae

**Net Catch Summary by Numbers for TN**

Standard 3/4-in mesh, double frame trap net sets

Number of Sets: 9  
 First Set Date: 06/16/2014  
 Last Lift Date: 06/18/2014  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BLB	Black Bullhead	1,021	113.44	11.50	42.00	132.61
CAP	Common Carp	5	0.56	1.00	2.44	5.51
NOP	Northern Pike	16	1.78	N/A	N/A	N/A
WTS	White Sucker	1	0.11	0.34	0.88	2.58
YEB	Yellow Bullhead	2	0.22	0.50	1.13	2.50
YEP	Yellow Perch	4	0.44	0.33	1.37	3.76
Total Fish/Set:			116.56	* Quartiles for Number Per Set		

**Net Catch Summary by Weight for TN**

Standard 3/4-in mesh, double frame trap net sets

Abbr	Species	Total Weight (Pounds)	Pounds Per Set	Mean Weight	Quartiles for Lake Class 43*		
					25%	50%	75%
BLB	Black Bullhead	378.45	42.05	0.37	0.18	0.28	0.40
CAP	Common Carp	21.44	2.38	4.29	1.42	2.92	4.58
NOP	Northern Pike	56.24	6.25	3.52	N/A	N/A	N/A
WTS	White Sucker	2.48	0.28	2.48	1.05	1.47	2.04
YEB	Yellow Bullhead	0.57	0.06	0.29	0.31	0.48	0.67
YEP	Yellow Perch	0.67	0.07	0.17	0.11	0.18	0.30
Total Pounds Fish/Set:			51.10	* Quartiles for Mean Weight			

**Length Frequency Distribution For TN**

**Standard 3/4-in mesh, double frame trap net sets**

(Field work conducted between 06/16/2014 and 06/18/2014)

	<u>BLB</u>	<u>CAP</u>	<u>NOP</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-
4.00 - 4.49	7	-	-	-	-	-
4.50 - 4.99	59	-	-	-	-	2
5.00 - 5.49	95	-	-	-	1	1
5.50 - 5.99	27	-	-	-	-	-
6.00 - 6.49	-	-	-	-	-	-
6.50 - 6.99	-	-	-	-	-	-
7.00 - 7.49	91	-	-	-	-	-
7.50 - 7.99	59	-	-	-	-	-
8.00 - 8.49	27	-	-	-	-	-
8.50 - 8.99	308	-	-	-	-	-
9.00 - 9.49	191	-	-	-	1	1
9.50 - 9.99	110	-	-	-	-	-
10.00 - 10.49	21	-	-	-	-	-
10.50 - 10.99	3	-	-	-	-	-
11.00 - 11.49	22	-	-	-	-	-
11.50 - 11.99	1	-	-	-	-	-
12.00 - 12.99	-	-	-	-	-	-
13.00 - 13.99	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	-
16.00 - 16.99	-	1	-	-	-	-
17.00 - 17.99	-	-	-	1	-	-
18.00 - 18.99	-	1	2	-	-	-
19.00 - 19.99	-	-	-	-	-	-
20.00 - 20.99	-	2	1	-	-	-
21.00 - 21.99	-	-	1	-	-	-
22.00 - 22.99	-	-	2	-	-	-
23.00 - 23.99	-	-	1	-	-	-
24.00 - 24.99	-	-	1	-	-	-
25.00 - 25.99	-	-	5	-	-	-
26.00 - 26.99	-	1	-	-	-	-
27.00 - 27.99	-	-	1	-	-	-
28.00 - 28.99	-	-	1	-	-	-
29.00 - 29.99	-	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-
31.00 - 31.99	-	-	1	-	-	-
32.00 - 32.99	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-

	<u>BLB</u>	<u>CAP</u>	<u>NOP</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
Total	1021	5	16	1	2	4
Min. Length	4.25	16.18	18.11	17.91	5.20	4.69
Max. Length	11.85	26.89	31.54	17.91	9.25	9.45
Mean Length	8.25	20.58	24.25	17.91	7.22	6.05
# Measured	144	5	16	1	2	4
No Lengths for	877	0	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

**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
TN	Painted Turtle	9	0	N/A	0	N/A
	Snapping Turtle	10	10	11.02 - 13.15 - 16.14	0	N/A

**(1) Key to sampling gear abbreviations:**

TN = Standard 3/4-in mesh, double frame trap net sets

**(2) Gender:** If identified and reported.

**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 06/19/2014), 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.

## 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: Perch**

**Survey Type: Population Assessment**

**DOW Number: 46-0046-00**

**Survey ID Date: 06/16/2014**

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**Survey Status:** Field Work Complete

The following 18 (of 31) report components are not included in this report:

1. Water Level History<sup>1</sup>
2. Lake Inlets
3. Additional Inlet Information
4. Lake Outlets
5. Additional Outlet Information
6. Water Control Structure (Dam)
7. Surrounding Watershed Characteristics, Shoreline Characteristics, and Riparian Landscape Observations<sup>2</sup>
8. Resorts And Campgrounds
9. Fish Spawning Conditions
10. Erosion And Pollution
11. Fish Diseases And Parasites
12. Aquatic Vegetation And Shoalwater Substrates
13. Laboratory Analysis Of Water Chemistry
14. Length At Capture With Last Incremental Length\*
15. Back-Calculated Lengths
16. Age Class Frequency Distributions
17. Status Of Fishery And Field Notes
18. 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 before noon on 06/19/2014 may not be reflected in the Distribution tables until after 12:30 pm on 06/19/2014.**