

Lake Name: Currant

Survey Type: Standard Survey

DOW Number: 51-0082-00

Survey ID Date: 06/21/2021

**Lake Identification**

Alternate Lake Name: Current  
Primary Lake Class ID: 43

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

**Lake Location**

Primary County: Murray

Nearest Town: Balaton

**Legal Descriptions**

Lake Center: Township - 108N Range - 42W Section - 18  
PLS Section Lake Center: 10804218

**All Legal Descriptions:**

Murray County: Township - 108N Range - 42W Sections - 7, 18  
Township - 108N Range - 43W Sections - 12, 13

**Area Office**

Area Name: Windom  
Region Name: Southern

ORG Code: F418  
Region Number: 4

**Lake Access**

(Information based on Re-Survey dated 06/07/1993)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	LOCATED ON NW SIDE OF THE LAKE. Adequate.
AC - 2	County	Open to Public use	Concrete	LOCATED ON EAST SIDE OF THE LAKE.

**Lake Characteristics**

Lake Area (planimetered acres): 377.00	GIS Shoreline Length (miles): 3.97
GIS Lake Area (acres): 405.74	Maximum Fetch (miles): 1.05
DOW Lake Area (acres): 394.00	Fetch Orientation (degrees): 360
Littoral Area (acres): 405.74	USGS Quad Map Number: V06b
Area in MN (acres): 405.74	USGS Quad 24K GIS Index: 4211
Maximum Depth (feet): 9.5	
Mean Depth (feet): N/A	

**Watershed Characteristics**

**Major Watershed**

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

**Minor Watershed**

Name: unknown DNR Minor Wshd  
Watershed Number: 86  
Watershed size (acres): 6,237

### Surveys and Investigations

**Initial Survey:** 06/14/1984.  
**Re-Survey:** 06/04/2001, 06/07/1993.  
**Population Assessment:** 06/24/2013, 06/22/2009, 06/20/2005, 06/16/1997, 06/13/1989.  
**Special Assessment:** 07/03/2013, 10/08/1998, 08/27/1948.  
**Dissolved Oxygen Check:** 02/17/2016, 02/19/2015, 01/02/2014, 02/06/2013, 01/03/2013, 01/10/2012, 12/29/2010, 01/05/2010.  
**Standard Survey:** 06/21/2021, 06/26/2017.  
**Targeted Survey:** 06/22/2021, 02/06/2020, 01/19/2018, 10/04/2017.

### Water Level History - Readings

Station ID	Date	Level	Reading (feet)	Reading Type
BM - 1	06/24/2009	High	-3.30	Above or below Benchmark
BM - 3	06/27/2013	Normal	-1.80	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	-3.30	06/24/2009	-3.30	06/24/2009	0.00	-3.30	Above or below Benchmark (1)
BM - 3	-1.80	06/27/2013	-1.80	06/27/2013	0.00	-1.80	Above or below Benchmark (1)

### 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	06/24/2021	8.2	Surface	70.9	9.6
			1.0	71.1	9.6
			2.0	70.9	9.5
			3.0	70.9	9.5
			4.0	70.9	9.5
			5.0	70.9	9.5
			6.0	70.7	9.3
			7.0	70.7	9.2

### 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	06/24/2021	Surface	1.1	8.50	280	Brown Grn	Algae

**Net Catch Summary by Numbers for GN**

Standard gill net sets

Number of Sets: 3  
 First Set Date: 06/21/2021  
 Last Lift Date: 06/24/2021  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BIB	Bigmouth Buffalo	211	70.33	0.75	2.58	6.96
BLB	Black Bullhead	145	48.33	30.34	75.58	150.62
BLC	Black Crappie	17	5.67	1.41	3.71	13.75
BRB	Brown Bullhead	1	0.33	0.50	1.50	5.63
CAP	Common Carp	22	7.33	1.00	3.33	13.75
WAE	Walleye	100	33.33	2.28	6.83	18.06
YEP	Yellow Perch	221	73.67	2.65	8.00	25.00
Total Fish/Set:			239.00	* Quartiles for Number Per Set		

**Net Catch Summary by Weight for GN**

Standard gill net sets

Abbr	Species	Total Weight (Pounds)	Pounds Per Set	Mean Weight	Quartiles for Lake Class 43*		
					25%	50%	75%
BIB	Bigmouth Buffalo	31.21	10.40	0.15	N/A	N/A	N/A
BLB	Black Bullhead	23.58	7.86	0.16	0.17	0.26	0.39
BLC	Black Crappie	1.27	0.42	0.07	0.16	0.25	0.35
BRB	Brown Bullhead	0.09	0.03	0.09	0.30	0.50	0.70
CAP	Common Carp	47.98	15.99	2.18	0.81	1.98	3.70
WAE	Walleye	127.52	42.51	1.28	1.01	1.53	2.30
YEP	Yellow Perch	35.33	11.78	0.16	0.13	0.21	0.31
Total Pounds Fish/Set:			89.00	* Quartiles for Mean Weight			

**Net Catch Summary by Numbers for TN**

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

Number of Sets: 8  
 First Set Date: 06/21/2021  
 Last Lift Date: 06/24/2021  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 43*		
				25%	50%	75%
BIB	Bigmouth Buffalo	26	3.25	0.17	0.38	1.04
BLB	Black Bullhead	182	22.75	11.50	42.00	132.61
BLC	Black Crappie	119	14.88	1.17	4.88	20.50
CAP	Common Carp	40	5.00	1.00	2.44	5.51
OSS	Orangespotted Sunfish	21	2.63	N/A	N/A	N/A
WAE	Walleye	24	3.00	0.50	1.33	2.95
YEB	Yellow Bullhead	13	1.63	0.50	1.13	2.50
YEP	Yellow Perch	165	20.63	0.33	1.37	3.76
Total Fish/Set:			73.75	* 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%
BIB	Bigmouth Buffalo	138.04	17.25	5.31	2.56	3.75	5.83
BLB	Black Bullhead	55.58	6.95	0.31	0.18	0.28	0.40
BLC	Black Crappie	9.60	1.20	0.08	0.22	0.34	0.50
CAP	Common Carp	138.81	17.35	3.47	1.42	2.92	4.58
OSS	Orangespotted Sunfish	0.73	0.09	0.03	N/A	N/A	N/A
WAE	Walleye	22.72	2.84	0.95	0.82	1.44	2.28
YEB	Yellow Bullhead	11.25	1.41	0.87	0.31	0.48	0.67
YEP	Yellow Perch	19.28	2.41	0.12	0.11	0.18	0.30
Total Pounds Fish/Set:			49.50	* Quartiles for Mean Weight			

**Natural Reproduction Catch Summary for SE**

**Standard shoreline seining**

**Number of Hauls:** 1  
**First Haul Date:** 06/24/2021  
**Last Haul Date:** 06/24/2021  
**Target Species:** Young of the year walleye

<b>Abbr</b>	<b>Species</b>	<b>Age</b>	<b>Total Number</b>	<b>Number Measured</b>	<b>Mean Length (inches)</b>	<b>Length Range (inches)</b>		<b>CPUE (num/ haul)</b>
						<b>Minimum</b>	<b>Maximum</b>	
WAE	Walleye	YOY	57	57	2.69	2.05	3.07	57.00

**Length Frequency Distribution for GN**

**Standard gill net sets**

(Field work conducted between 06/21/2021 and 06/24/2021)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>BRB</u>	<u>CAP</u>	<u>WAE</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-
4.00 - 4.49	-	-	2	-	-	-	-
4.50 - 4.99	3	12	7	-	-	-	5
5.00 - 5.49	-	37	4	1	-	-	77
5.50 - 5.99	95	27	4	-	-	-	81
6.00 - 6.49	63	30	-	-	-	-	7
6.50 - 6.99	24	24	-	-	-	-	4
7.00 - 7.49	19	7	-	-	-	-	1
7.50 - 7.99	6	1	-	-	-	-	1
8.00 - 8.49	-	2	-	-	1	-	6
8.50 - 8.99	1	2	-	-	4	-	12
9.00 - 9.49	1	-	-	-	5	2	13
9.50 - 9.99	-	-	-	-	4	5	1
10.00 - 10.49	-	-	-	-	-	15	2
10.50 - 10.99	-	-	-	-	-	23	4
11.00 - 11.49	-	-	-	-	-	11	5
11.50 - 11.99	-	1	-	-	1	2	3
12.00 - 12.99	-	-	-	-	-	-	1
13.00 - 13.99	-	2	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	1	-
16.00 - 16.99	-	-	-	-	-	3	-
17.00 - 17.99	-	-	-	-	-	4	-
18.00 - 18.99	-	-	-	-	-	17	-
19.00 - 19.99	-	-	-	-	1	9	-
20.00 - 20.99	-	-	-	-	1	6	-
21.00 - 21.99	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	1	-	-
23.00 - 23.99	-	-	-	-	-	1	-
24.00 - 24.99	-	-	-	-	1	-	-
25.00 - 25.99	-	-	-	-	1	-	-
26.00 - 26.99	-	-	-	-	2	-	-
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>BLC</u>	<u>BRB</u>	<u>CAP</u>	<u>WAE</u>	<u>YEP</u>
Total	212	145	17	1	22	99	223
Min. Length	4.65	4.65	4.33	5.47	8.27	9.13	4.76
Max. Length	9.25	13.98	5.75	5.47	26.46	23.66	12.60
Mean Length	6.48	6.21	5.05	5.47	13.94	14.02	7.43
# Measured	98	112	17	1	22	99	96
No Lengths for	113	33	0	0	0	1	125

**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

**Length Frequency Distribution for TN**

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

(Field work conducted between 06/21/2021 and 06/24/2021)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>CAP</u>	<u>OSS</u>	<u>WAE</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	1	-	-	-
3.00 - 3.49	-	-	-	-	8	-	-	-
3.50 - 3.99	-	-	-	-	11	-	-	-
4.00 - 4.49	-	11	-	-	1	-	-	5
4.50 - 4.99	-	5	28	-	-	-	-	23
5.00 - 5.49	1	37	60	-	-	-	-	59
5.50 - 5.99	4	25	27	-	-	-	-	44
6.00 - 6.49	6	41	2	-	-	-	1	14
6.50 - 6.99	2	25	-	-	-	-	-	2
7.00 - 7.49	1	9	-	-	-	-	-	1
7.50 - 7.99	-	7	2	1	-	-	-	-
8.00 - 8.49	-	-	-	1	-	-	1	1
8.50 - 8.99	-	1	-	1	-	1	1	6
9.00 - 9.49	-	-	-	9	-	1	3	4
9.50 - 9.99	-	-	-	1	-	-	-	2
10.00 - 10.49	-	-	-	4	-	7	1	1
10.50 - 10.99	-	-	-	4	-	6	1	3
11.00 - 11.49	-	1	-	1	-	4	1	-
11.50 - 11.99	-	2	-	-	-	-	3	-
12.00 - 12.99	-	4	-	1	-	-	-	1
13.00 - 13.99	-	9	-	-	-	-	1	-
14.00 - 14.99	-	7	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	-	-	-	-
18.00 - 18.99	-	-	-	-	-	2	-	-
19.00 - 19.99	-	-	-	-	-	2	-	-
20.00 - 20.99	-	-	-	-	-	1	-	-
21.00 - 21.99	-	-	-	-	-	-	-	-
22.00 - 22.99	1	-	-	2	-	-	-	-
23.00 - 23.99	1	-	-	3	-	-	-	-
24.00 - 24.99	2	-	-	-	-	-	-	-
25.00 - 25.99	2	-	-	4	-	-	-	-
26.00 - 26.99	1	-	-	3	-	-	-	-
27.00 - 27.99	-	-	-	4	-	-	-	-
28.00 - 28.99	2	-	-	1	-	-	-	-
29.00 - 29.99	1	-	-	-	-	-	-	-
30.00 - 30.99	2	-	-	-	-	-	-	-
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>BLC</u>	<u>CAP</u>	<u>OSS</u>	<u>WAE</u>	<u>YEB</u>	<u>YEP</u>
Total	26	184	119	40	21	24	13	166
Min. Length	5.16	4.02	4.53	7.95	2.01	8.70	6.14	4.33
Max. Length	30.39	14.25	7.91	28.70	4.02	20.51	13.78	12.52
Mean Length	15.62	7.52	5.25	16.50	3.48	12.28	10.25	5.89
# Measured	26	57	99	40	21	24	13	152
No Lengths for	0	125	20	0	0	0	0	13

**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

Length Frequency Distribution for SE

Standard shoreline seining

(Field work conducted on 06/24/2021)

	<u>YWAE</u>
< 0.50	-
0.50 - 0.99	-
1.00 - 1.49	-
1.50 - 1.99	-
2.00 - 2.49	9
2.50 - 2.99	45
3.00 - 3.49	3
3.50 - 3.99	-
4.00 - 4.49	-
4.50 - 4.99	-
5.00 - 5.49	-
5.50 - 5.99	-
6.00 - 6.49	-
6.50 - 6.99	-
7.00 - 7.49	-
7.50 - 7.99	-
8.00 - 8.49	-
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 - 12.49	-
12.50 - 12.99	-
13.00 - 13.49	-
13.50 - 13.99	-
14.00 - 14.49	-
14.50 - 14.99	-
15.00 - 15.49	-
15.50 - 15.99	-
= > 16.00	-

	<u>YWAE</u>
Total	57
Min. Length	2.05
Max. Length	3.07
Mean Length	2.69
# Measured	57
No Lengths for	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	4	0	N/A	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 Lake Survey Report contains preliminary data (as of 06/25/2021), 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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Lake Survey Report revision: 20210209-RJE. Data Date: 06/25/2021 at 11:12 am .

## REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Currant

Survey Type: Standard Survey

DOW Number: 51-0082-00

Survey ID Date: 06/21/2021

Survey Status: Field Work Complete

The following 22 (of 33) report components are not included in this Lake Survey Report:

1. Current Water Level
2. Benchmark And Gauge Descriptions / Locations
3. Water Level History<sup>1</sup>
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 Observations<sup>2</sup>
10. Resorts And Campgrounds
11. Fish Spawning Conditions
12. Erosion And Pollution
13. Fish Diseases And Parasites
14. Aquatic Vegetation And Shoalwater Substrates
15. Water Quality (Winter Observations) (added to revision 01/21/2010)
16. Laboratory Analysis Of Water Chemistry
17. Catch Summary (Pre-1993 Format) (added to revision 20201001)
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. Survey Attachments (added to revision 20150622)

<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 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 06/25/2021 may not be reflected in the Distribution tables until after 12:30 pm on 06/25/2021.**

The following survey component was flagged to be specifically excluded from this report: TN - 4

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