

Lake Name: Budd

Survey Type: Standard Survey

DOW Number: 46-0030-00

Survey ID Date: 08/10/2020

**Lake Identification**

Alternate Lake Name: N/A  
Primary Lake Class ID: 24

DNR Sounding Map Number: C0452  
Alternate Lake Class ID: N/A

**Lake Location**

Primary County: Martin

Nearest Town: Fairmont

**Legal Descriptions**

Lake Center: Township - 102N Range - 30W Section - 17  
PLS Section Lake Center: 10203017

**All Legal Descriptions:**

Martin County: Township - 102N Range - 30W Sections - 17, 18

**Area Office**

Area Name: Windom  
Region Name: Southern

ORG Code: F418  
Region Number: 4

**Lake Access**

(Information based on Re-Survey dated 08/10/1993)

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):	222.00	GIS Shoreline Length (miles):	2.23
GIS Lake Area (acres):	227.91	Maximum Fetch (miles):	0.75
DOW Lake Area (acres):	224.00	Fetch Orientation (degrees):	315
Littoral Area (acres):	111.00	USGS Quad Map Number:	X12b
Area in MN (acres):	227.91	USGS Quad 24K GIS Index:	4623
Maximum Depth (feet):	23.0		
Mean Depth (feet):	N/A		

**Watershed Characteristics**

**Major Watershed**

Name: Blue Earth River  
Watershed Number: 30  
Watershed size (acres): 777,240

**Minor Watershed**

Name: Center Cr  
Watershed Number: 67  
Watershed size (acres): 8,071

**Surveys and Investigations**

**Re-Survey:** 08/13/2001, 08/10/1993, 08/07/1989, 07/03/1984.  
**Population Assessment:** 08/17/2009, 08/11/1997.  
**Special Assessment:** 09/15/1997.  
**Dissolved Oxygen Check:** 02/11/2016, 02/24/2015, 01/03/2014, 01/08/2013, 12/28/2012, 02/16/2012, 12/29/2010, 01/15/2010.  
**External Management Survey:** 07/31/2014.  
**Standard Survey:** 08/14/2017.  
**Targeted Survey:** 02/19/2019, 01/18/2018, 06/30/2017, 08/21/2015.

**Current Water Level**

<u>Station ID</u>	<u>Date</u>	<u>Level</u>	<u>Reading (feet)</u>	<u>Reading Type</u>
BM - 1	08/13/2020	Low	-7.50	Above Mean Sea Level

**Benchmark and Gauge Descriptions / Locations**

<u>Station ID</u>	<u>Location Description</u>
BM - 1	middle of top of south side bridge between Budd and Sisseton Lakes

**Water Level History - Readings**

<u>Station ID</u>	<u>Date</u>	<u>Level</u>	<u>Reading (feet)</u>	<u>Reading Type</u>
BM - 1	08/13/2020	Low	-7.50	Above Mean Sea Level
	08/22/2017	Normal	-7.60	Above or below Benchmark
	08/19/2009	N/A	138.00	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	-7.60	08/22/2017	138.00	08/19/2009	145.60	65.20	Above or below Benchmark (2)
BM - 1	-7.50	08/13/2020	-7.50	08/13/2020	0.00	-7.50	Above Mean Sea Level (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	08/11/2020	19.1	Surface	77.4	8.1
			1.0	77.4	8.1
			2.0	77.4	8.1
			3.0	77.2	8.0
			4.0	77.0	7.8
			5.0	76.8	7.5
			6.0	76.6	7.4
			7.0	76.8	7.3
			8.0	76.6	7.3
			9.0	76.6	7.1
			10.0	76.3	7.0
			11.0	76.3	6.8
			12.0	76.3	6.7
			13.0	76.1	6.9
			14.0	76.1	6.8
			15.0	76.1	6.8
			16.0	76.1	6.8
			17.0	75.9	6.6
			18.0	75.9	6.2
19.0	75.6	6.0			

**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	08/11/2020	Surface	3.0	8.36	200	Green	Algae

**Net Catch Summary by Numbers for GN**

Standard gill net sets

**Number of Sets:** 3  
**First Set Date:** 08/10/2020  
**Last Lift Date:** 08/13/2020  
**Target Species:** N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BIB	Bigmouth Buffalo	1	0.33	0.25	0.55	1.69
BLC	Black Crappie	1	0.33	2.50	6.91	16.50
BLG	Bluegill	1	0.33	N/A	N/A	N/A
CCF	Channel Catfish	7	2.33	N/A	N/A	N/A
FRD	Freshwater Drum	106	35.33	4.00	11.75	32.25
NOP	Northern Pike	1	0.33	1.50	3.75	7.29
QBS	Quillback	1	0.33	N/A	N/A	N/A
WAE	Walleye	3	1.00	1.17	2.82	6.33
WTS	White Sucker	2	0.67	0.40	1.00	2.17
YLB	Yellow Bass	164	54.67	N/A	N/A	N/A
YEP	Yellow Perch	33	11.00	2.00	10.50	27.94
Total Fish/Set:			106.67	* 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 24*		
					25%	50%	75%
BIB	Bigmouth Buffalo	4.10	1.37	4.10	N/A	N/A	N/A
BLC	Black Crappie	0.28	0.09	0.28	0.15	0.20	0.26
BLG	Bluegill	0.06	0.02	0.06	N/A	N/A	N/A
CCF	Channel Catfish	22.57	7.52	3.22	N/A	N/A	N/A
FRD	Freshwater Drum	69.09	23.03	0.65	0.25	0.50	1.13
NOP	Northern Pike	2.51	0.84	2.51	2.02	2.68	3.50
QBS	Quillback	2.88	0.96	2.88	N/A	N/A	N/A
WAE	Walleye	1.05	0.35	0.35	1.20	1.81	2.69
WTS	White Sucker	4.80	1.60	2.40	1.55	2.00	2.38
YLB	Yellow Bass	N/A	N/A	N/A	N/A	N/A	N/A
YEP	Yellow Perch	10.78	3.59	0.33	0.10	0.13	0.18
Total Pounds Fish/Set:			39.37	* 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: 08/10/2020  
 Last Lift Date: 08/13/2020  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BLC	Black Crappie	89	11.13	1.83	6.50	21.16
BLG	Bluegill	66	8.25	7.54	23.13	62.50
CCF	Channel Catfish	2	0.25	N/A	N/A	N/A
CAP	Common Carp	13	1.63	0.38	0.74	2.00
FRD	Freshwater Drum	30	3.75	0.50	1.17	4.19
NOP	Northern Pike	6	0.75	N/A	N/A	N/A
QBS	Quillback	1	0.13	N/A	N/A	N/A
WAE	Walleye	6	0.75	0.27	0.60	1.24
WHC	White Crappie	1	0.13	0.50	1.50	6.55
WTS	White Sucker	5	0.63	0.20	0.44	1.00
YLB	Yellow Bass	65	8.13	N/A	N/A	N/A
YEP	Yellow Perch	6	0.75	0.25	0.60	1.67
Total Fish/Set:			36.25	* 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 24*		
					25%	50%	75%
BLC	Black Crappie	51.46	6.43	0.58	0.18	0.24	0.33
BLG	Bluegill	29.43	3.68	0.45	0.13	0.18	0.25
CCF	Channel Catfish	8.32	1.04	4.16	N/A	N/A	N/A
CAP	Common Carp	87.44	10.93	6.73	2.58	4.07	6.02
FRD	Freshwater Drum	22.37	2.80	0.75	0.43	0.79	1.21
NOP	Northern Pike	20.98	2.62	3.50	N/A	N/A	N/A
QBS	Quillback	0.05	0.01	0.05	N/A	N/A	N/A
WAE	Walleye	2.08	0.26	0.35	0.80	1.50	2.78
WHC	White Crappie	0.72	0.09	0.72	0.23	0.30	0.40
WTS	White Sucker	12.05	1.51	2.41	1.61	2.16	2.84
YLB	Yellow Bass	0.00	0.00	0.00	N/A	N/A	N/A
YEP	Yellow Perch	1.54	0.19	0.26	0.10	0.13	0.20
Total Pounds Fish/Set:			29.55	* Quartiles for Mean Weight			

**Length Frequency Distribution for GN**

**Standard gill net sets**

(Field work conducted between 08/10/2020 and 08/13/2020)

	<u>BIB</u>	<u>BLC</u>	<u>BLG</u>	<u>CCF</u>	<u>FRD</u>	<u>NOP</u>	<u>QBS</u>	<u>WAE</u>	<u>WTS</u>	<u>YEP</u>	<u>YLB</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	1	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	-	-	-	-	-	-	-	-	-	1
6.00 - 6.49	-	-	-	-	-	-	-	-	-	-	41
6.50 - 6.99	-	-	-	-	-	-	-	-	-	2	10
7.00 - 7.49	-	1	-	-	-	-	-	-	-	2	1
7.50 - 7.99	-	-	-	-	-	-	-	-	-	4	1
8.00 - 8.49	-	-	-	-	-	-	-	-	-	4	1
8.50 - 8.99	-	-	-	-	-	-	-	-	-	10	32
9.00 - 9.49	-	-	-	-	-	-	-	-	-	7	55
9.50 - 9.99	-	-	-	-	-	-	-	-	-	4	17
10.00 - 10.49	-	-	-	-	4	-	-	3	-	-	5
10.50 - 10.99	-	-	-	-	10	-	-	-	-	-	-
11.00 - 11.49	-	-	-	-	27	-	-	-	-	-	-
11.50 - 11.99	-	-	-	-	44	-	-	-	-	-	-
12.00 - 12.99	-	-	-	-	15	-	-	-	-	-	-
13.00 - 13.99	-	-	-	-	6	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	-	-	-	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-	-	-	-	-	-
17.00 - 17.99	-	-	-	1	-	-	-	-	2	-	-
18.00 - 18.99	-	-	-	2	-	-	1	-	-	-	-
19.00 - 19.99	1	-	-	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	1	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	2	-	1	-	-	-	-	-
23.00 - 23.99	-	-	-	1	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-	-	-
	<u>BIB</u>	<u>BLC</u>	<u>BLG</u>	<u>CCF</u>	<u>FRD</u>	<u>NOP</u>	<u>QBS</u>	<u>WAE</u>	<u>WTS</u>	<u>YEP</u>	<u>YLB</u>
Total	1	1	1	7	106	1	1	3	2	33	164
Min. Length	19.13	7.36	4.09	17.95	10.12	22.87	18.58	10.08	17.80	6.73	5.94
Max. Length	19.13	7.36	4.09	23.78	13.43	22.87	18.58	10.31	17.95	9.92	10.31
Mean Length	19.13	7.36	4.09	20.71	11.61	22.87	18.58	10.22	17.87	8.56	8.29
# Measured	1	1	1	7	104	1	1	3	2	33	157
No Lengths for	0	0	0	0	2	0	0	0	0	0	7

**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 08/10/2020 and 08/13/2020)

	<u>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>NOP</u>	<u>QBS</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEP</u>	<u>YLB</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	1	-	-	-	1	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	-	-	-	-	-	-	-	-	-	-	-
6.00 - 6.49	1	2	-	-	-	-	-	-	-	-	-	12
6.50 - 6.99	-	3	-	-	-	-	-	-	-	-	1	5
7.00 - 7.49	-	8	-	-	-	-	-	-	-	-	2	1
7.50 - 7.99	-	16	-	-	-	-	-	-	-	-	-	-
8.00 - 8.49	-	24	-	-	-	-	-	-	-	-	1	3
8.50 - 8.99	3	12	-	-	-	-	-	-	-	-	1	13
9.00 - 9.49	18	2	-	-	-	-	-	-	-	-	1	17
9.50 - 9.99	33	-	-	-	-	-	-	3	-	-	-	5
10.00 - 10.49	26	-	-	-	-	-	-	2	-	-	-	1
10.50 - 10.99	8	-	-	-	1	-	-	-	1	-	-	-
11.00 - 11.49	-	-	-	-	5	-	-	-	-	-	-	-
11.50 - 11.99	-	-	-	-	5	-	-	-	-	-	-	-
12.00 - 12.99	-	-	-	-	8	-	-	1	-	-	-	-
13.00 - 13.99	-	-	-	-	1	-	-	-	-	-	-	-
14.00 - 14.99	-	-	-	-	-	-	-	-	-	-	-	-
15.00 - 15.99	-	-	-	-	1	-	-	-	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-	-	-	-	1	-	-
17.00 - 17.99	-	-	-	-	-	1	-	-	-	1	-	-
18.00 - 18.99	-	-	-	-	-	-	-	-	-	3	-	-
19.00 - 19.99	-	-	1	-	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	1	-	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	1	-	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	1	2	-	-	-	-	-	-	-	-
23.00 - 23.99	-	-	-	-	-	1	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	-	1	-	-	-	-	-	-
25.00 - 25.99	-	-	3	-	-	-	-	-	-	-	-	-
26.00 - 26.99	-	-	2	-	-	1	-	-	-	-	-	-
27.00 - 27.99	-	-	2	-	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	1	-	-	1	-	-	-	-	-	-
29.00 - 29.99	-	-	-	-	-	1	-	-	-	-	-	-
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>BLC</u>	<u>BLG</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>NOP</u>	<u>QBS</u>	<u>WAE</u>	<u>WHC</u>	<u>WTS</u>	<u>YEP</u>	<u>YLB</u>
Total	89	67	13	2	21	6	1	6	1	5	6	57
Min. Length	6.38	6.22	4.65	22.36	10.75	17.44	4.65	9.53	10.87	16.97	6.77	6.14
Max. Length	10.87	9.29	28.82	22.91	15.12	29.21	4.65	12.32	10.87	18.74	9.49	10.12
Mean Length	9.78	7.90	23.26	22.64	12.08	24.87	4.65	10.30	10.87	17.88	7.97	8.18
# Measured	89	56	13	2	21	6	1	6	1	5	6	48
No Lengths for	0	10	0	0	9	0	0	0	0	0	0	17

**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 Lake Survey Report contains preliminary data (as of 08/14/2020), 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: 20190410-RJE. Data Date: 08/14/2020 at 7:13 am .



## REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Budd

Survey Type: Standard Survey

DOW Number: 46-0030-00

Survey ID Date: 08/10/2020

Survey Status: Proposed

The following 20 (of 32) report components are not included in this Lake Survey 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. Other Species (added to revision 03/24/2009)
19. Water Quality (Winter Observations) (added to revision 01/21/2010)
20. 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 08/14/2020 may not be reflected in the Distribution tables until after 12:30 pm on 08/14/2020.**

The following survey component was flagged to be specifically excluded from this report: TN - 6

**FOR OFFICE USE ONLY:** As of revision 20150622, this page is automatically suppressed on signed versions of this report (area supervisor, region manager, research biologist, research supervisor, program staff, or program manager signed).