

Lake Name: Budd  
DOW Number: 46-0030-00

Survey Type: Targeted Survey  
Survey ID Date: 04/23/2024

**TARGETED SURVEY**  
**Electrofishing targeting Muskellunge All Ages**  
**Electrofishing**  
**Seining**

**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 Lake Area (acres): 227.91  
DOW Lake Area (acres): 224.00  
Littoral Area (acres): 111.00  
Area in MN (acres): 227.91  
Maximum Depth (feet): 23.0  
Mean Depth (feet): N/A

GIS Shoreline Length (miles): 2.23  
Maximum Fetch (miles): 0.75  
Fetch Orientation (degrees): 315  
USGS Quad Map Number: X12b  
USGS Quad 24K GIS Index: 4623

**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, 12/29/2011, 01/15/2010.  
**External Management Survey:** 07/31/2014.  
**Standard Survey:** 08/10/2020, 08/14/2017.  
**Targeted Survey:** 09/22/2023, 02/03/2020, 02/19/2019, 01/18/2018, 06/30/2017, 08/21/2015.

**Water Level History - Readings**

Station ID	Date	Level	Reading (feet)	Reading Type
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**

Station ID	Minimum Level		Maximum Level		Range (feet)	Average Level (feet)	Reading Type (and number of readings)
	Feet	Date	Feet	Date			
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)

**Natural Reproduction Catch Summary for SEF**

**Special sampling, electrofishing**

**Number of Stations:** 1  
**Total run-time for all stations:** 277788:27:39  
**Total on-time for all stations:** 12:41:46  
**First Sampling Date:** 04/23/2024  
**Last Sampling Date:** 05/08/2024  
**Daylight Sampling:** Yes  
**Target Species:** All ages muskellunge

Abbr	Species	Age	Total Number	Number Measured	Mean Length (inches)	Length Range (inches)		Catch Rates (number per hour)	
						Min	Max	Run-Time	On-Time
MUE	Muskellunge	All	12	12	38.15	35.43	40.98	0.00	0.95

**Length Frequency Distribution for SEF (for fish < 36.00 inches)**

**Special sampling, electrofishing**

(Field work conducted between 04/23/2024 and 05/08/2024)

	<u>MUE</u>
< 3.00	-
3.00 - 3.49	-
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 - 12.99	-
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	-
35.00 - 35.99	1
= > 36.00	11

	<u>MUE</u>
Total	12
Min. Length	35.43
Max. Length	40.98
Mean Length	38.15
# Measured	12
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.

**Length Frequency Distribution for SEF (for fish  $\geq$  36.00 inches)**

**Special sampling, electrofishing**

(Field work conducted between 04/23/2024 and 05/08/2024)

	<u>MUE</u>
< 36.00	1
36.00 - 36.99	4
37.00 - 37.99	1
38.00 - 38.99	1
39.00 - 39.99	3
40.00 - 40.99	2
41.00 - 41.99	-
42.00 - 42.99	-
43.00 - 43.99	-
44.00 - 44.99	-
45.00 - 45.99	-
46.00 - 46.99	-
47.00 - 47.99	-
48.00 - 48.99	-
49.00 - 49.99	-
50.00 - 50.99	-
51.00 - 51.99	-
52.00 - 52.99	-
53.00 - 53.99	-
54.00 - 54.99	-
55.00 - 55.99	-
56.00 - 56.99	-
57.00 - 57.99	-
58.00 - 58.99	-
59.00 - 59.99	-
60.00 - 60.99	-
61.00 - 61.99	-
62.00 - 62.99	-
63.00 - 63.99	-
64.00 - 64.99	-
65.00 - 65.99	-
66.00 - 66.99	-
67.00 - 67.99	-
68.00 - 68.99	-
69.00 - 69.99	-
70.00 - 70.99	-
71.00 - 71.99	-
72.00 - 72.99	-
73.00 - 73.99	-
74.00 - 74.99	-
75.00 - 75.99	-
76.00 - 76.99	-
77.00 - 77.99	-
= > 78.00	-

	<u>MUE</u>
Total	12
Min. Length	35.43
Max. Length	40.98
Mean Length	38.15
# Measured	12
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.

**Field Notes - General Field**

Entire Fairmont Chain of Lakes was sampled with EF to assess the Muskellunge population. Data entered into Budd Lake for consistency and a single report.

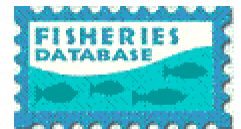
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**Approval Dates And Notices**

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 07/12/2024), 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: 20230207-RJE. Data Date: 07/12/2024 at 8:35 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: Targeted Survey

DOW Number: 46-0030-00

Survey ID Date: 04/23/2024

## Electrofishing targeting Muskellunge All Ages, Electrofishing, Seining

Survey Status: Proposed

The following 25 (of 34) 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. Dissolved Oxygen And Temperature Profile Of Lake Water
16. Field Measurements Of Water Quality
17. Water Quality (Winter Observations) (added to revision 01/21/2010)
18. Laboratory Analysis Of Water Chemistry
19. Zooplankton Sampling (added to revision 20221130)
20. Catch Summary (Pre-1993 Format) (added to revision 20201001)
21. Length At Capture With Last Incremental Length\*
22. Back-Calculated Lengths
23. Age Class Frequency Distributions
24. Other Species (added to revision 03/24/2009)
25. 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 07/12/2024 may not be reflected in the Distribution tables until after 12:30 pm on 07/12/2024.**

The following survey component was flagged to be specifically excluded from this report: SSE - 1

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