



Minnesota Department of Natural Resources  
 Fisheries Management  
 STANDARD LAKE SURVEY REPORT



Lake Name: Roberds  
 DOW Number: 66-0018-00

Survey Type: Re-Survey  
 Survey ID Date: 07/07/2008

**Lake Identification**

Alternate Lake Name: N/A  
 Primary Lake Class ID: 24  
 DNR Sounding Map Number: C0816  
 Alternate Lake Class ID: 24

**Lake Location**

Primary County: Rice  
 Nearest Town: Shieldsville

**Legal Descriptions**

Lake Center: Township - 110N Range - 21W Section - 16  
 PLS Section Lake Center: 11002116

**All Legal Descriptions:**

Rice County: Township - 110N Range - 21W Sections - 15, 16, 21, 22

**Area Office**

Area Name: Waterville  
 Region Name: Southern  
 ORG Code: F417  
 Region Number: 4

**Lake Access**

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): 625.40  
 GIS Lake Area (acres): 632.28  
 DOW Lake Area (acres): 654.00  
 Littoral Area (acres): 393.40  
 Area in MN (acres): 632.28  
 Maximum Depth (feet): 43.0  
 Mean Depth (feet): N/A  
 GIS Shoreline Length (miles): 5.57  
 Maximum Fetch (miles): 1.50  
 Fetch Orientation (degrees): 292  
 USGS Quad Map Number: U16d  
 USGS Quad 24K GIS Index: 4132

**Watershed Characteristics**

**Major Watershed**

Name: Cannon River  
 Watershed Number: 39  
 Watershed size (acres): 941,122

**Minor Watershed**

Name: Unknown Watershed Name  
 Watershed Number: 100  
 Watershed size (acres): 10,790

**Surveys And Investigations**

**Re-Survey:** 07/07/2008, 07/07/2003, 06/30/1998, 07/14/1993, 08/11/1988, 08/15/1983.  
**Population Assessment:** 08/13/1986.  
**Special Assessment:** 07/07/1955.

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**Lake Inlets**

(Field work conducted on 06/30/2008)

Station ID	Name	Kittle Number	Origin and Cover Type (Primary and Secondary)	Surface Temp (°F)
IN - 1		N/A	Origin - N/A Marshland (P) and Grassland (S)	74.0

**Additional Inlet Information**

Station ID	Mean Width (feet)	Mean Depth (feet)	Discharge (CFS)	Mean Velocity (FPS)	Barriers to Fish Movement	Known Fish Spawning Runs
IN - 1	4.00	0.80	0.3	0.50	N/A	N/A

**Lake Outlets**

(Field work conducted on 06/30/2008)

Station ID	Name	Kittle Number	Tributary To
OUT - 1		N/A	N/A

**Additional Outlet Information**

Station ID	Mean Width (feet)	Mean Depth (feet)	Flow (CFS)	Mean Velocity (FPS)	Barriers to Fish Movement	Water Control Structure
OUT - 1	0.00	0.00	4.00	1.2	No	Concrete with fixed sill

**Resorts And Campgrounds**

Station ID	Resort/Campground Name	Number of Cabins	Number of Campsites	Comments
RE - 1	Winjum's Resort	8	65	Remodeled in 2008
RE - 2	Roberds Lake Resort	11	50	Bob Cross rode with to pull gillnets the first day of the survey
<b>Totals:</b>		19	115	

**Aquatic Vegetation And Shoalwater Substrates**

**Abundance Of Aquatic Plants (In Transects)**

Number of Transects: 25  
 Maximum Depth of Aquatic Vegetation Sample (Feet): 7.0  
 Date(s) of Field Work: 08/20/2008

Common Name	Type	Frequency of Occurrence (%)	Abundance Rating	Mean Abundance (%)
Blue-green algae	-	4	Rare	3.3
Bushy Pondweed	Submergent	4	Rare	0.7

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**Aquatic Vegetation And Shoalwater Substrates (Continued)**

**Abundance Of Aquatic Plants (In Transects) (Continued)**

<u>Common Name</u>	<u>Type</u>	<u>Frequency of Occurrence (%)</u>	<u>Abundance Rating</u>	<u>Mean Abundance (%)</u>
Canada Waterweed	Submergent	32	Rare	14.7
Cattail Group	Emergent	4	Rare	2.0
Coontail / Common hornwort	Submergent	64	Common	34.7
Curly-leaf Pondweed	Submergent	76	Common	50.0
Filamentous algae	-	24	Rare	16.0
Jewelweed	Terrestrial	4	Rare	2.0
Muskgrass Group	-	8	Rare	4.0
Narrow-leaf Pondweed Group	Submergent	12	Rare	4.7
Northern Milfoil	Submergent	4	Rare	0.7
Sago Pondweed	Submergent	32	Rare	10.7
Water Star-grass	Submergent	24	Rare	12.0
White-stem Pondweed	Submergent	4	Rare	2.0

(Floating-Leaf and wetland species may be tallied with emergent species)

**Shoalwater Substrates (In Transects)**

<u>Common Name</u>	<u>Frequency of Occurrence (%)</u>	<u>Abundance Rating</u>	<u>Mean Abundance (%)</u>
Boulder	4	Rare	0.7
Detritus	52	Common	42.0
Gravel	12	Rare	7.3
Muck	60	Rare	30.0
Rubble	4	Rare	2.0
Sand	52	Rare	24.7
Silt	32	Rare	16.0

**Dissolved Oxygen And Temperature Profile Of Lake Water**

<u>Station ID</u>	<u>Sampling Date</u>	<u>Bottom Depth (Feet)</u>	<u>Sample Depth (Feet)</u>	<u>Water Temperature (°F)</u>	<u>Dissolved Oxygen (ppm)</u>
WQ - 1	06/30/2008	N/A	Surface	73.0	4.8
			5.0	72.5	4.4
			10.0	72.1	4.3
			12.0	72.1	4.3
			14.0	72.1	3.8
			16.0	72.0	4.0
			18.0	72.0	3.5
			20.0	71.8	2.8
			WQ - 2	06/26/2008	N/A
5.0	75.6	8.3			
6.0	75.2	7.8			
7.0	75.4	8.2			
8.0	75.4	7.9			
9.0	75.4	7.9			
10.0	74.5	5.8			
11.0	73.6	2.8			
12.0	72.7	0.7			
15.0	70.9	0.3			
20.0	68.9	0.2			

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**Dissolved Oxygen And Temperature Profile Of Lake Water (Continued)**

<u>Station ID</u>	<u>Sampling Date</u>	<u>Bottom Depth (Feet)</u>	<u>Sample Depth (Feet)</u>	<u>Water Temperature (°F)</u>	<u>Dissolved Oxygen (ppm)</u>
WQ - 2	06/26/2008	N/A	25.0	68.2	0.2

(Continued)

**Field Measurements Of Water Quality**

<u>Station ID</u>	<u>Sampling Date</u>	<u>Sample Depth (Feet)</u>	<u>Secchi Depth (Feet)</u>	<u>Field pH</u>	<u>Alkalinity (ppm)</u>	<u>Water Color</u>	<u>Color Cause</u>
WQ - 1	06/03/2008	1.0	N/A	N/A	N/A	N/A	N/A
	06/30/2008	Surface	N/A	N/A	N/A	N/A	N/A
WQ - 2	06/26/2008	Surface	N/A	N/A	N/A	N/A	N/A

**Laboratory Analysis Of Water Chemistry**

(Analysis Date: 06/16/2008)

<u>Station ID</u>	<u>Sampling Date</u>	<u>Sample Depth (Feet)</u>	<u>Chemical Parameter</u>	<u>Chemical Value</u>
WQ - 1	06/03/2008	1.0	Total phosphorus	0.061 ppm
			Total alkalinity	128 ppm
			Total dissolved solids	208 ppm
			Chlorophyll-a trichromatic method calculation	18.7 ppb
			Conductivity	292 :S/cm
			pH	8.84 pH
			Chlorophyll-a corrected for pheophytin	15.50 ppb

**STANDARD LAKE SURVEY REPORT**  
**RE-SURVEY DATED 07/07/2008 FOR DOW NUMBER 66-0018-00**

**Net Catch Summary by Numbers for GN**

Standard gill net sets

Number of Sets: 8  
 First Set Date: 06/26/2008  
 Last Lift Date: 07/03/2008  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BLB	Black Bullhead	50	6.25	2.50	10.46	44.95
BLC	Black Crappie	109	13.63	2.50	6.91	16.50
BLG	Bluegill	63	7.88	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	1	0.13	0.20	0.50	0.80
CCF	Channel Catfish	35	4.38	N/A	N/A	N/A
CAP	Common Carp	5	0.63	0.33	1.00	3.00
FRD	Freshwater Drum	62	7.75	4.00	11.75	32.25
MUE	Muskellunge	1	0.13	0.25	0.50	1.00
NOP	Northern Pike	29	3.63	1.50	3.75	7.29
WAE	Walleye	5	0.63	1.17	2.82	6.33
WHB	White Bass	1	0.13	0.27	0.83	3.83
WHC	White Crappie	2	0.25	0.67	2.65	10.38
YEB	Yellow Bullhead	13	1.63	0.50	2.00	7.51
YEP	Yellow Perch	98	12.25	2.00	10.50	27.94
Total Fish/Set:			59.25	* 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%
BLB	Black Bullhead	30.75	3.84	0.62	0.29	0.44	0.66
BLC	Black Crappie	26.15	3.27	0.24	0.15	0.20	0.26
BLG	Bluegill	12.71	1.59	0.20	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	3.02	0.38	3.02	2.44	3.25	4.21
CCF	Channel Catfish	101.00	12.63	2.89	N/A	N/A	N/A
CAP	Common Carp	24.45	3.06	4.89	1.87	3.41	5.24
FRD	Freshwater Drum	73.01	9.13	1.18	0.25	0.50	1.13
MUE	Muskellunge	17.86	2.23	17.86	1.86	2.90	4.00
NOP	Northern Pike	131.46	16.43	4.53	2.02	2.68	3.50
WAE	Walleye	9.08	1.14	1.82	1.20	1.81	2.69
WHB	White Bass	1.01	0.13	1.01	N/A	N/A	N/A
WHC	White Crappie	1.47	0.18	0.73	0.17	0.24	0.33
YEB	Yellow Bullhead	7.65	0.96	0.59	0.46	0.61	0.82
YEP	Yellow Perch	18.62	2.33	0.19	0.10	0.13	0.18
Total Pounds Fish/Set:			57.28	* Quartiles for Mean Weight			

**STANDARD LAKE SURVEY REPORT**  
**RE-SURVEY DATED 07/07/2008 FOR DOW NUMBER 66-0018-00**

**Net Catch Summary by Numbers for TN**

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

Number of Sets: 13  
 First Set Date: 06/26/2008  
 Last Lift Date: 07/03/2008  
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BLB	Black Bullhead	25	1.92	0.71	3.75	25.65
BLC	Black Crappie	270	20.77	1.83	6.50	21.16
BLG	Bluegill	130	10.00	7.54	23.13	62.50
BOF	Bowfin (Dogfish)	6	0.46	0.38	0.75	1.29
CCF	Channel Catfish	13	1.00	N/A	N/A	N/A
CAP	Common Carp	22	1.69	0.38	0.74	2.00
FRD	Freshwater Drum	18	1.38	0.50	1.17	4.19
GOS	Golden Shiner	1	0.08	0.17	0.30	0.83
HSF	Hybrid Sunfish	1	0.08	N/A	N/A	N/A
NOP	Northern Pike	2	0.15	N/A	N/A	N/A
WAE	Walleye	1	0.08	0.27	0.60	1.24
YEB	Yellow Bullhead	29	2.23	0.88	2.15	5.68
YEP	Yellow Perch	5	0.38	0.25	0.60	1.67
Total Fish/Set:			40.23	* 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%
BLB	Black Bullhead	24.89	1.91	1.00	0.28	0.43	0.62
BLC	Black Crappie	73.44	5.65	0.27	0.18	0.24	0.33
BLG	Bluegill	24.42	1.88	0.19	0.13	0.18	0.25
BOF	Bowfin (Dogfish)	32.99	2.54	5.50	2.28	3.33	4.10
CCF	Channel Catfish	28.68	2.21	2.21	N/A	N/A	N/A
CAP	Common Carp	104.07	8.01	4.73	2.58	4.07	6.02
FRD	Freshwater Drum	37.26	2.87	2.07	0.43	0.79	1.21
GOS	Golden Shiner	0.07	0.01	0.07	0.07	0.10	0.13
HSF	Hybrid Sunfish	0.26	0.02	0.26	N/A	N/A	N/A
NOP	Northern Pike	15.55	1.20	7.77	N/A	N/A	N/A
WAE	Walleye	4.08	0.31	4.08	0.80	1.50	2.78
YEB	Yellow Bullhead	20.82	1.60	0.72	0.50	0.67	0.84
YEP	Yellow Perch	0.87	0.07	0.17	0.10	0.13	0.20
Total Pounds Fish/Set:			28.26	* Quartiles for Mean Weight			

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**Electrofishing Catch Summary for EF**

Standard electrofishing

Total run-time for all stations: N/A  
 Total on-time for all stations: 00:00:03  
 First Sampling Date: 05/14/2008  
 Last Sampling Date: 05/14/2008  
 Daylight Sampling: No  
 Target Species: N/A

Abbr	Species	Summary By Numbers			Summary By Weight (pounds)			
		Total Number	Run-Time	Number per Hour On-Time	Total Weight	Run-Time	Lbs per Hour On-Time	Mean Weight
LMB	Largemouth Bass	32	N/A	38554.22	33.21	N/A	40016.77	1.04

**STANDARD LAKE SURVEY REPORT**  
**RE-SURVEY DATED 07/07/2008 FOR DOW NUMBER 66-0018-00**

**Length Frequency Distribution For GN (for fish < 36.00 inches)**

**Standard gill net sets**

(Field work conducted between 06/26/2008 and 07/03/2008)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>MUE</u>	<u>NOP</u>	<u>WAE</u>	<u>WHB</u>	<u>WHC</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	4	-	-	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	1	1	-	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	1	2	13	-	-	-	-	-	-	-	-	-	-	4
6.00 - 6.49	2	12	21	-	-	-	-	-	-	-	-	-	-	5
6.50 - 6.99	-	18	22	-	-	-	7	-	-	-	-	-	-	8
7.00 - 7.49	1	4	5	-	-	-	1	-	-	-	-	-	-	42
7.50 - 7.99	1	20	-	-	-	-	1	-	-	-	-	1	-	30
8.00 - 8.49	1	34	-	-	-	-	-	-	-	-	-	-	-	8
8.50 - 8.99	-	11	-	-	-	-	-	-	-	-	-	-	-	2
9.00 - 9.49	4	2	-	-	-	-	-	-	-	-	-	-	2	-
9.50 - 9.99	11	-	-	-	-	-	-	-	-	-	-	-	3	-
10.00 - 10.49	10	-	-	-	-	-	-	-	-	-	-	-	6	-
10.50 - 10.99	5	-	-	-	-	-	-	-	-	-	-	-	1	-
11.00 - 11.49	4	-	-	-	-	-	-	-	-	-	-	-	-	-
11.50 - 11.99	5	-	-	-	1	-	5	-	-	1	-	-	-	-
12.00 - 12.99	5	-	-	-	-	-	24	-	-	1	1	-	1	-
13.00 - 13.99	-	-	-	-	-	-	6	-	-	-	-	1	-	-
14.00 - 14.99	-	-	-	-	-	-	-	-	-	1	-	-	-	-
15.00 - 15.99	-	-	-	-	-	-	1	-	-	1	-	-	-	-
16.00 - 16.99	-	-	-	-	-	1	3	-	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	-	5	9	-	-	-	-	-	-	-
18.00 - 18.99	-	-	-	-	-	12	3	-	-	-	-	-	-	-
19.00 - 19.99	-	-	-	-	-	5	2	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	1	1	8	-	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-	2	-	-	3	-	-	-	-	-
22.00 - 22.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	3	-	-	-	-	-
24.00 - 24.99	-	-	-	-	1	-	-	-	3	1	-	-	-	-
25.00 - 25.99	-	-	-	-	1	-	-	-	2	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	1	-	-	3	-	-	-	-	-
27.00 - 27.99	-	-	-	-	-	-	-	-	3	-	-	-	-	-
28.00 - 28.99	-	-	-	-	-	-	-	-	6	-	-	-	-	-
29.00 - 29.99	-	-	-	-	-	-	-	-	3	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	-	-	1	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	-	-	-	1	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-	1	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	1	-	-	-	-	-	-
<b>Total</b>	<b>50</b>	<b>108</b>	<b>62</b>	<b>1</b>	<b>4</b>	<b>34</b>	<b>62</b>	<b>1</b>	<b>29</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>13</b>	<b>99</b>
Min. Length	5.87	4.21	4.72	20.67	11.57	16.81	6.54	44.49	21.18	11.97	12.99	7.91	9.37	5.55
Max. Length	12.99	9.25	7.32	20.67	25.12	26.46	19.72	44.49	32.52	24.21	12.99	13.94	12.60	8.86
Mean Length	10.12	7.54	6.38	20.67	20.31	19.29	13.12	44.49	26.79	15.80	12.99	10.93	10.22	7.38
# Measured	50	105	59	1	4	34	62	1	29	5	1	2	13	76
No Lengths for	0	4	4	0	1	1	0	0	0	0	0	0	0	22

**STANDARD LAKE SURVEY REPORT**  
**RE-SURVEY DATED 07/07/2008 FOR DOW NUMBER 66-0018-00**

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

**Standard gill net sets**

(Field work conducted between 06/26/2008 and 07/03/2008)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>MUE</u>	<u>NOP</u>	<u>WAE</u>	<u>WHB</u>	<u>WHC</u>	<u>YEB</u>	<u>YEP</u>
< 36.00	50	109	63	1	5	35	62	-	29	5	1	2	13	98
36.00 - 36.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.00 - 37.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38.00 - 38.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39.00 - 39.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40.00 - 40.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41.00 - 41.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
42.00 - 42.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43.00 - 43.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44.00 - 44.99	-	-	-	-	-	-	-	1	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>50</b>	<b>109</b>	<b>63</b>	<b>1</b>	<b>5</b>	<b>35</b>	<b>62</b>	<b>1</b>	<b>29</b>	<b>5</b>	<b>1</b>	<b>2</b>	<b>13</b>	<b>98</b>
Min. Length	5.87	4.21	4.72	20.67	11.57	16.81	6.54	44.49	21.18	11.97	12.99	7.91	9.37	5.55
Max. Length	12.99	9.25	7.32	20.67	25.12	26.46	19.72	44.49	32.52	24.21	12.99	13.94	12.60	8.86
Mean Length	10.12	7.54	6.38	20.67	20.31	19.29	13.12	44.49	26.79	15.80	12.99	10.93	10.22	7.38
# Measured	50	105	59	1	4	34	62	1	29	5	1	2	13	76
No Lengths for	0	4	4	0	1	1	0	0	0	0	0	0	0	22

**STANDARD LAKE SURVEY REPORT**  
**RE-SURVEY DATED 07/07/2008 FOR DOW NUMBER 66-0018-00**

**Length Frequency Distribution For TN**

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

(Field work conducted between 06/26/2008 and 07/03/2008)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>GOS</u>	<u>HSF</u>	<u>NOP</u>	<u>WAE</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	1	1	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	1	5	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	4	-	-	-	-	-	-	-	-	-	1
5.00 - 5.49	-	-	8	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	4	30	-	-	-	-	1	-	-	-	-	-
6.00 - 6.49	-	9	40	-	-	-	-	-	-	-	-	-	-
6.50 - 6.99	-	34	26	-	-	-	-	-	1	-	-	-	1
7.00 - 7.49	-	16	7	-	-	-	-	-	-	-	-	-	-
7.50 - 7.99	-	51	6	-	-	-	-	-	-	-	-	-	1
8.00 - 8.49	-	97	3	-	-	-	-	-	-	-	-	1	1
8.50 - 8.99	-	53	-	-	-	-	-	-	-	-	-	4	1
9.00 - 9.49	1	3	-	-	-	-	-	-	-	-	-	1	-
9.50 - 9.99	1	1	-	-	-	-	-	-	-	-	-	2	-
10.00 - 10.49	1	-	-	-	-	-	-	-	-	-	-	6	-
10.50 - 10.99	3	-	-	-	-	-	-	-	-	-	-	4	-
11.00 - 11.49	3	-	-	-	-	-	-	-	-	-	-	5	-
11.50 - 11.99	5	-	-	-	-	-	1	-	-	-	-	-	-
12.00 - 12.99	6	-	-	-	-	-	4	-	-	-	-	2	-
13.00 - 13.99	3	-	-	-	1	-	1	-	-	-	-	3	-
14.00 - 14.99	2	-	-	-	-	-	1	-	-	-	-	1	-
15.00 - 15.99	-	-	-	-	-	1	-	-	-	-	-	-	-
16.00 - 16.99	-	-	-	-	-	3	1	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	1	4	3	-	-	-	-	-	-
18.00 - 18.99	-	-	-	-	1	2	5	-	-	-	-	-	-
19.00 - 19.99	-	-	-	-	2	2	2	-	-	-	-	-	-
20.00 - 20.99	-	-	-	2	3	1	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	1	2	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	8	-	-	-	-	-	1	-	-
23.00 - 23.99	-	-	-	-	1	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	-	2	-	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	1	1	-	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	-	-	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	-	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	-	-	-	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	2	-	-	-	-	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	-	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	-	-	-	-	2	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-	-	-	-	-

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>GOS</u>	<u>HSF</u>	<u>NOP</u>	<u>WAE</u>	<u>YEB</u>	<u>YEP</u>
Total	25	270	130	6	22	13	18	1	1	2	1	29	5
Min. Length	9.21	3.82	3.90	20.67	13.50	15.87	11.54	5.71	6.69	31.06	22.13	8.15	4.61
Max. Length	14.45	9.76	8.19	29.88	25.00	20.08	19.37	5.71	6.69	31.30	22.13	14.06	8.54
Mean Length	11.93	7.92	6.18	24.73	21.39	17.87	16.22	5.71	6.69	31.18	22.13	10.74	7.12
# Measured	25	142	110	6	22	13	18	1	1	2	1	29	5
No Lengths for	0	128	20	0	0	0	0	0	0	0	0	0	0

STANDARD LAKE SURVEY REPORT  
RE-SURVEY DATED 07/07/2008 FOR DOW NUMBER 66-0018-00

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**Length Frequency Distribution For EF**

**Standard electrofishing**

(Field work conducted on 05/14/2008)

	<u>LMB</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	1
8.00 - 8.49	1
8.50 - 8.99	3
9.00 - 9.49	7
9.50 - 9.99	5
10.00 - 10.49	4
10.50 - 10.99	-
11.00 - 11.49	1
11.50 - 11.99	-
12.00 - 12.99	-
13.00 - 13.99	-
14.00 - 14.99	3
15.00 - 15.99	4
16.00 - 16.99	1
17.00 - 17.99	1
18.00 - 18.99	-
19.00 - 19.99	1
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	-
= > 36.00	-

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	<u>LMB</u>
Total	32
Min. Length	7.80
Max. Length	19.21
Mean Length	11.48
# Measured	32
No Lengths for	0

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**STANDARD LAKE SURVEY REPORT**  
**RE-SURVEY DATED 07/07/2008 FOR DOW NUMBER 66-0018-00**

**Age Class Frequency Distribution**

Species and Gear (1)	Number of Fish (2)			Number of Fish in Year Class ('yy) and Age Class															
	Aged	Keyed	Unaged	'08	'07	'06	'05	'04	'03	'02	'01	'00	'99	'98	'97	'96	'95	'94	<'94
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
<b>Black Crappie</b>																			
GN	38	71	0	0	2	35	40	32	0	0	0	0	0	0	0	0	0	0	0
TN	8	172	90	0	1	9	69	4	97	0	0	0	0	0	0	0	0	0	0
<b>Totals:</b>	<b>46</b>	<b>243</b>	<b>90</b>	<b>0</b>	<b>3</b>	<b>44</b>	<b>109</b>	<b>36</b>	<b>97</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Bluegill</b>																			
GN	15	47	1	0	0	0	62	0	0	0	0	0	0	0	0	0	0	0	0
TN	28	62	40	0	1	13	67	9	0	0	0	0	0	0	0	0	0	0	0
<b>Totals:</b>	<b>43</b>	<b>109</b>	<b>41</b>	<b>0</b>	<b>1</b>	<b>13</b>	<b>129</b>	<b>9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Channel Catfish</b>																			
GN	17	18	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0
TN	8	3	2	0	0	0	0	1	10	0	0	0	0	0	0	0	0	0	0
<b>Totals:</b>	<b>25</b>	<b>21</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>
<b>Largemouth Bass</b>																			
EF	29	3	0	0	0	4	13	8	4	2	1	0	0	0	0	0	0	0	0
<b>Muskellunge</b>																			
GN	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<b>Northern Pike</b>																			
GN	29	0	0	0	0	3	10	11	2	0	0	3	0	0	0	0	0	0	0
TN	2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
<b>Totals:</b>	<b>31</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>10</b>	<b>11</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Walleye</b>																			
GN	5	0	0	0	0	0	3	1	0	1	0	0	0	0	0	0	0	0	0
TN	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
<b>Totals:</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>White Crappie</b>																			
GN	2	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
<b>Yellow Perch</b>																			
GN	28	70	0	0	2	3	89	4	0	0	0	0	0	0	0	0	0	0	0
TN	3	0	2	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0
<b>Totals:</b>	<b>31</b>	<b>70</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>91</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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

GN = Standard gill net sets  
 TN = Standard 3/4-in mesh, double frame trap net sets  
 EF = Standard electrofishing

**(2) Notes:**

Number of Fish Aged: Fish that were aged from bony parts.  
 Number of Fish Keyed: Fish assigned an age with an age-length key or by expansion of mesh or station age distributions.  
 Number of Fish Unaged: Fish that were not aged and were not assigned an age.

**Other Species**

Gear Type (1)	Other Species (Gender) (2)	Total	Number	Length (inches)	Number	Weight (pounds)
		Num	Measured	Min - Mean - Max	Weighed	Min - Mean - Max
TN	Painted Turtle	14	0	N/A	0	N/A

**STANDARD LAKE SURVEY REPORT**  
**RE-SURVEY DATED 07/07/2008 FOR DOW NUMBER 66-0018-00**

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**Other Species (Continued)**

<b>Gear Type (1)</b>	<b>Other Species (Gender) (2)</b>	<b>Total Num</b>	<b>Number Measured</b>	<b>Length (inches) Min - Mean - Max</b>	<b>Number Weighed</b>	<b>Weight (pounds) Min - Mean - Max</b>
	Snapping Turtle	1	1	14.25	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.

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**STANDARD LAKE SURVEY REPORT**  
**RE-SURVEY DATED 07/07/2008 FOR DOW NUMBER 66-0018-00**

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**Survey Crew Notes**

Fieldwork by Scott Mackenthun and Craig Berberich

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**Discussion**

Roberds Lake in Rice County is a 625 acre lake northwest of Faribault. A DNR owned public access is on the west side of the lake next to Winjum's Resort and Campgrounds off Rice county road 69.

Roberds Lake was surveyed the week of July 7th, 2008 to monitor the fish community and aquatic habitat. Black crappie were well represented in the catch. Black crappie were netted at a rate of 20.8 fish per trap net and 13.6 fish per gill net. Black crappies ranged in size from 4 to 10 inches. Two white crappies were captured in the survey, down from 13 in the 2003 survey. Bluegill size structure waned since the 2003 survey; size ranged from 4 to 8 inches with a combined gear mean size of 6.2 inches.

Yellow perch abundance is around the median at 12.3 fish per gill net lift. Perch range from 6 to 9 inches. Northern pike abundance is also around the median at 3.6 fish per gill net lift. Pike ranged from 21 to 33 inches. Channel catfish were netted at an all time high. Catfish were netted at a rate of 4.4 catfish per gill net and 1 catfish per trap net lift. Channel catfish ranged in size from 16 to 26 inches. Channel catfish have been entirely maintained through natural reproduction.

Largemouth bass were sampled in mid-May with a Smith-Root electrofishing boat. Bass do not net well and electrofishing is the most reliable way to estimate abundance. 32 bass were caught per hour of on time. Largemouth bass were distributed bimodally around 10 and 16 inches.

One 44.5 inch muskellunge was caught in a gill net and successfully released. Anecdotal occasional muskellunge catches have been reported, and during high water periods, the outlet from French Lake's southeast side can run into Roberds Lakes' southern lagoon. French Lake is annually stocked with muskellunge. Other fish caught during the Roberds survey include bowfin (dogfish), yellow bullhead, black bullhead, golden shiner, hybrid sunfish.

Anglers can help maintain or improve the quality of fishing by practicing selective harvest. Selective harvest allows for the harvest of smaller fish for table fare, but encourages release of medium- to large-sized fish. Releasing these fish can help maintain balance in the fish community in Roberds Lake and provide anglers the opportunity to catch more and larger fish in the future.

Shoreline areas on the land and into the shallow water provide essential habitat for fish and wildlife that live in or near Minnesota's lakes. Overdeveloped shorelines cannot support the fish, wildlife, and clean water that are associated with natural undeveloped lakes.

Shoreline habitat consists of aquatic plants, woody plants, and natural lake bottom soils. Plants in the water and at the water's edge provide habitat, prevent erosion, and absorb excess nutrients. Shrubs, trees, and woody debris such as fallen trees or limbs provide good habitat both above and below the water and should be left in place. By leaving a buffer strip of natural vegetation along the shoreline, property owners can reduce erosion, help maintain water quality, and provide habitat and travel corridors for wildlife.

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**STANDARD LAKE SURVEY REPORT**  
**RE-SURVEY DATED 07/07/2008 FOR DOW NUMBER 66-0018-00**

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### **Status Of The Fishery**

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STANDARD LAKE SURVEY REPORT  
RE-SURVEY DATED 07/07/2008 FOR DOW NUMBER 66-0018-00

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Approval Dates And Notices



Date Approved By Waterville Area Fisheries Supervisor: 06/05/2009

Date Approved By Southern Region Fisheries Manager: 6/9/09 gsp (sp)



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Standard Lake Survey Report revision: 04/10/2009-RJE. Data dated 06/05/2009 at 11:45:50AM