



Minnesota Department of Natural Resources
 Fisheries Management
 STANDARD LAKE SURVEY REPORT



Lake Name: Middle Jefferson
 DOW Number: 40-0092-04

Survey Type: Population Assessment
 Survey ID Date: 07/28/2008

Lake Identification

Alternate Lake Name: N/A
 Primary Lake Class ID: 41
 DNR Sounding Map Number: B0200
 Alternate Lake Class ID: 41

Lake Location

Primary County: Le Sueur
 Nearest Town: Marysburg

Legal Descriptions

Lake Center: Township - 109N Range - 25W Section - 2
 PLS Section Lake Center: 10902502

All Legal Descriptions:

Le Sueur County: Township - 109N Range - 25W Sections - 1, 2, 3, 12
 Township - 110N Range - 25W Section - 35

Area Office

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

Lake Access

(Information based on Re-Survey dated 08/13/2002)

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): 645.00
 GIS Lake Area (acres): 664.22
 DOW Lake Area (acres): 0.00
 Littoral Area (acres): 645.00
 Area in MN (acres): 664.22
 Maximum Depth (feet): 8.0
 Mean Depth (feet): N/A
 GIS Shoreline Length (miles): 5.38
 Maximum Fetch (miles): 1.80
 Fetch Orientation (degrees): 315
 USGS Quad Map Number: U14d
 USGS Quad 24K GIS Index: 4128

Watershed Characteristics

Major Watershed

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

Minor Watershed

Name: Lake Jefferson
 Watershed Number: 107
 Watershed size (acres): 10,526

Surveys And Investigations

Re-Survey: 08/13/2002.

STANDARD LAKE SURVEY REPORT
POPULATION ASSESSMENT DATED 07/28/2008 FOR DOW NUMBER 40-0092-04

Surveys And Investigations (Continued)

Population Assessment: 07/28/2008.
 Special Assessment: 06/29/1994.

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	07/30/2008	N/A	Surface	81.5	9.8
			1.0	81.5	9.1
			2.0	81.3	8.5
			3.0	80.6	7.3
			4.0	80.4	6.6

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	07/30/2008	Surface	N/A	N/A	N/A	N/A	N/A

STANDARD LAKE SURVEY REPORT
POPULATION ASSESSMENT DATED 07/28/2008 FOR DOW NUMBER 40-0092-04

Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 2
 First Set Date: 07/28/2008
 Last Lift Date: 07/29/2008
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 41*		
				25%	50%	75%
BLB	Black Bullhead	236	118.00	4.56	23.42	83.00
BLC	Black Crappie	2	1.00	0.83	2.63	11.10
BLG	Bluegill	6	3.00	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	1	0.50	0.10	0.17	1.00
CAP	Common Carp	68	34.00	0.52	1.80	9.13
FRD	Freshwater Drum	93	46.50	3.64	10.25	24.24
GOS	Golden Shiner	11	5.50	0.14	0.26	0.68
WAE	Walleye	2	1.00	3.22	7.67	15.33
WHB	White Bass	1	0.50	0.75	1.67	7.15
YEP	Yellow Perch	24	12.00	3.00	8.94	22.50
Total Fish/Set:			222.00	* 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 41*		
					25%	50%	75%
BLB	Black Bullhead	105.79	52.89	0.45	0.21	0.38	0.60
BLC	Black Crappie	0.65	0.32	0.32	0.17	0.25	0.37
BLG	Bluegill	1.42	0.71	0.24	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	5.01	2.50	5.01	3.33	4.35	5.50
CAP	Common Carp	54.08	27.04	0.80	1.00	2.39	4.88
FRD	Freshwater Drum	154.93	77.46	1.67	0.25	0.45	1.00
GOS	Golden Shiner	0.91	0.45	0.08	0.07	0.10	0.16
WAE	Walleye	10.36	5.18	5.18	0.88	1.37	1.90
WHB	White Bass	1.17	0.59	1.17	N/A	N/A	N/A
YEP	Yellow Perch	3.53	1.77	0.15	0.14	0.24	0.36
Total Pounds Fish/Set:			168.93	* Quartiles for Mean Weight			

STANDARD LAKE SURVEY REPORT
POPULATION ASSESSMENT DATED 07/28/2008 FOR DOW NUMBER 40-0092-04

Net Catch Summary by Numbers for TN

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

Number of Sets: 9
 First Set Date: 07/28/2008
 Last Lift Date: 07/30/2008
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 41*		
				25%	50%	75%
BIB	Bigmouth Buffalo	1	0.11	0.22	0.48	1.45
BLB	Black Bullhead	236	26.22	1.33	14.73	78.13
BLC	Black Crappie	96	10.67	0.98	2.96	12.33
BLG	Bluegill	299	33.22	1.05	3.00	14.93
BOF	Bowfin (Dogfish)	12	1.33	0.13	0.30	0.68
CAP	Common Carp	174	19.33	0.70	1.80	5.11
CSH	Common Shiner	1	0.11	N/A	N/A	N/A
FRD	Freshwater Drum	58	6.44	0.36	0.95	4.00
GOS	Golden Shiner	44	4.89	0.17	0.41	1.00
GSF	Green Sunfish	1	0.11	0.13	0.33	0.66
HSF	Hybrid Sunfish	13	1.44	N/A	N/A	N/A
LMB	Largemouth Bass	6	0.67	0.13	0.40	0.75
LNG	Longnose Gar	1	0.11	N/A	N/A	N/A
PMK	Pumpkinseed	5	0.56	0.43	1.10	4.47
WAE	Walleye	1	0.11	0.31	0.73	1.69
WHB	White Bass	1	0.11	0.38	1.09	1.91
YEB	Yellow Bullhead	12	1.33	0.50	1.60	4.05
YEP	Yellow Perch	30	3.33	0.25	0.81	2.62
		Total Fish/Set:	110.11	* Quartiles for Number Per Set		

STANDARD LAKE SURVEY REPORT
POPULATION ASSESSMENT DATED 07/28/2008 FOR DOW NUMBER 40-0092-04

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 41*		
					25%	50%	75%
BIB	Bigmouth Buffalo	8.09	0.90	8.09	1.25	3.18	5.07
BLB	Black Bullhead	108.12	12.01	0.46	0.21	0.36	0.59
BLC	Black Crappie	36.97	4.11	0.39	0.23	0.34	0.49
BLG	Bluegill	66.78	7.42	0.22	0.16	0.25	0.38
BOF	Bowfin (Dogfish)	71.80	7.98	5.98	3.65	4.57	5.08
CAP	Common Carp	311.51	34.61	1.79	2.33	4.10	5.64
CSH	Common Shiner	0.12	0.01	0.12	N/A	N/A	N/A
FRD	Freshwater Drum	106.45	11.83	1.84	0.49	0.85	1.74
GOS	Golden Shiner	4.51	0.50	0.10	0.06	0.10	0.10
GSF	Green Sunfish	0.04	0.00	0.04	0.06	0.10	0.17
HSF	Hybrid Sunfish	2.35	0.26	0.18	N/A	N/A	N/A
LMB	Largemouth Bass	17.28	1.92	2.88	0.41	1.00	1.54
LNG	Longnose Gar	1.80	0.20	1.80	N/A	N/A	N/A
PMK	Pumpkinseed	1.12	0.12	0.22	0.10	0.15	0.26
WAE	Walleye	4.13	0.46	4.13	0.85	1.63	2.41
WHB	White Bass	0.99	0.11	0.99	0.18	0.63	0.79
YEB	Yellow Bullhead	16.61	1.85	1.38	0.40	0.60	0.84
YEP	Yellow Perch	4.69	0.52	0.16	0.13	0.20	0.31
Total Pounds Fish/Set:			84.82	* Quartiles for Mean Weight			

STANDARD LAKE SURVEY REPORT
POPULATION ASSESSMENT DATED 07/28/2008 FOR DOW NUMBER 40-0092-04

Length Frequency Distribution For GN

Standard gill net sets

(Field work conducted between 07/28/2008 and 07/29/2008)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>YCAP</u>	<u>FRD</u>	<u>GOS</u>	<u>WAE</u>	<u>WHB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-	3	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	27	-	-	-	-	-
4.50 - 4.99	2	-	-	-	-	19	-	1	-	-	-
5.00 - 5.49	4	-	1	-	-	-	-	2	-	-	-
5.50 - 5.99	-	-	1	-	-	-	-	2	-	-	5
6.00 - 6.49	-	-	-	-	-	-	-	3	-	-	8
6.50 - 6.99	-	-	1	-	-	-	-	3	-	-	1
7.00 - 7.49	-	-	1	-	-	-	-	-	-	-	5
7.50 - 7.99	2	-	1	-	-	-	-	-	-	-	1
8.00 - 8.49	10	2	-	-	-	-	-	-	-	-	2
8.50 - 8.99	30	-	-	-	-	-	-	-	-	-	-
9.00 - 9.49	84	-	-	-	-	-	-	-	-	-	2
9.50 - 9.99	76	-	-	-	-	-	-	-	-	-	-
10.00 - 10.49	18	-	-	-	-	-	-	-	-	-	-
10.50 - 10.99	5	-	-	-	2	-	-	-	-	-	-
11.00 - 11.49	3	-	-	-	-	-	-	-	-	-	-
11.50 - 11.99	-	-	-	-	1	-	1	-	-	-	-
12.00 - 12.99	-	-	-	-	4	-	7	-	-	-	-
13.00 - 13.99	-	-	-	-	4	-	9	-	-	1	-
14.00 - 14.99	-	-	-	-	3	-	7	-	-	-	-
15.00 - 15.99	-	-	-	-	1	-	42	-	-	-	-
16.00 - 16.99	-	-	-	-	-	-	20	-	-	-	-
17.00 - 17.99	-	-	-	-	-	-	2	-	-	-	-
18.00 - 18.99	-	-	-	-	-	-	1	-	-	-	-
19.00 - 19.99	-	-	-	-	-	-	4	-	-	-	-
20.00 - 20.99	-	-	-	-	1	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	-	-	-	1	-	-	-
23.00 - 23.99	-	-	-	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	1	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	-	1	-	-	-	1	-	-
26.00 - 26.99	-	-	-	-	-	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	1	-	-	-	-	-	-
28.00 - 28.99	-	-	-	-	-	-	-	-	-	-	-
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>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>YCAP</u>	<u>FRD</u>	<u>GOS</u>	<u>WAE</u>	<u>WHB</u>	<u>YEP</u>
Total	234	2	5	1	19	49	93	11	2	1	24
Min. Length	4.92	8.19	5.43	24.53	10.83	3.90	11.93	4.84	22.01	13.66	5.55
Max. Length	11.14	8.46	7.91	24.53	29.80	4.96	19.53	6.89	25.79	13.66	9.02
Mean Length	9.20	8.33	6.70	24.53	15.81	4.41	15.46	6.01	23.90	13.66	6.64
# Measured	129	2	5	1	19	34	87	11	2	1	19
No Lengths for	107	0	1	0	0	15	6	0	0	0	5

STANDARD LAKE SURVEY REPORT
POPULATION ASSESSMENT DATED 07/28/2008 FOR DOW NUMBER 40-0092-04

Length Frequency Distribution For TN

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

(Field work conducted between 07/28/2008 and 07/30/2008)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>YBLG</u>	<u>BOF</u>	<u>CAP</u>	<u>YCAP</u>	<u>CSH</u>	<u>FRD</u>	<u>GOS</u>	<u>GSF</u>	<u>HSF</u>	<u>LMB</u>	<u>LNG</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	1	1	-	-	2	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	8	-	-	-	18	-	-	-	1	3	-	-
4.00 - 4.49	-	-	-	23	-	-	-	28	-	-	1	-	2	-	-
4.50 - 4.99	-	-	-	10	-	-	-	17	-	-	1	-	-	-	-
5.00 - 5.49	-	-	-	7	-	-	-	11	-	-	2	-	1	-	-
5.50 - 5.99	-	-	2	17	-	-	-	2	-	-	7	-	2	-	-
6.00 - 6.49	-	-	2	54	-	-	-	-	-	-	7	-	-	-	-
6.50 - 6.99	-	-	3	83	-	-	-	-	1	-	18	-	3	-	-
7.00 - 7.49	-	1	-	35	-	-	-	-	-	-	6	-	-	-	-
7.50 - 7.99	-	1	8	57	-	-	-	1	-	-	1	-	2	-	-
8.00 - 8.49	-	6	20	3	-	-	-	-	-	-	-	-	-	-	-
8.50 - 8.99	-	44	20	-	-	-	-	-	-	-	-	-	-	-	-
9.00 - 9.49	-	90	21	-	-	-	-	-	-	-	-	-	-	-	-
9.50 - 9.99	-	60	12	-	-	-	-	-	-	-	-	-	-	-	-
10.00 - 10.49	-	33	6	-	-	-	9	-	-	-	-	-	-	-	-
10.50 - 10.99	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
11.00 - 11.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11.50 - 11.99	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
12.00 - 12.99	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
13.00 - 13.99	-	-	-	-	-	-	9	-	-	-	-	-	-	1	-
14.00 - 14.99	-	-	-	-	-	-	4	-	-	9	-	-	-	1	-
15.00 - 15.99	-	-	-	-	-	-	11	-	-	19	-	-	-	1	-
16.00 - 16.99	-	-	-	-	-	-	1	-	-	23	-	-	-	-	-
17.00 - 17.99	-	-	-	-	-	-	10	-	-	5	-	-	-	2	-
18.00 - 18.99	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
19.00 - 19.99	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-
20.00 - 20.99	-	-	-	-	-	1	10	-	-	-	-	-	-	1	-
21.00 - 21.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-
23.00 - 23.99	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
24.00 - 24.99	1	-	-	-	-	-	3	-	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	-	-	2	10	-	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	-	2	3	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	-	-	4	5	-	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
30.00 - 30.99	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
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>BLG</u>	<u>YBLG</u>	<u>BOF</u>	<u>CAP</u>	<u>YCAP</u>	<u>CSH</u>	<u>FRD</u>	<u>GOS</u>	<u>GSF</u>	<u>HSF</u>	<u>LMB</u>	<u>LNG</u>
Total	1	235	96	298	1	12	95	79	1	58	43	1	13	6	1
Min. Length	24.02	7.40	5.51	3.46	3.39	20.55	10.43	3.39	6.77	14.17	4.41	3.86	3.74	13.50	29.25
Max. Length	24.02	10.31	10.98	8.35	3.39	28.90	31.69	7.80	6.77	19.53	7.87	3.86	7.80	20.47	29.25
Mean Length	24.02	9.38	8.74	6.42	3.39	25.77	21.06	4.41	6.77	16.05	6.44	3.86	5.63	16.52	29.25
# Measured	1	159	96	168	1	12	53	79	1	58	42	1	13	6	1
No Lengths for	0	77	0	130	0	0	42	0	0	0	2	0	0	0	0

STANDARD LAKE SURVEY REPORT
POPULATION ASSESSMENT DATED 07/28/2008 FOR DOW NUMBER 40-0092-04

Length Frequency Distribution For TN (Continued)

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

(Field work conducted between 07/28/2008 and 07/30/2008)

	<u>PMK</u>	<u>WAE</u>	<u>WHB</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-
3.50 - 3.99	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-
4.50 - 4.99	-	-	-	-	-
5.00 - 5.49	-	-	-	-	1
5.50 - 5.99	1	-	-	-	6
6.00 - 6.49	2	-	-	-	8
6.50 - 6.99	1	-	-	-	3
7.00 - 7.49	1	-	-	-	2
7.50 - 7.99	-	-	-	-	1
8.00 - 8.49	-	-	-	-	2
8.50 - 8.99	-	-	-	-	4
9.00 - 9.49	-	-	-	-	1
9.50 - 9.99	-	-	-	-	1
10.00 - 10.49	-	-	-	-	-
10.50 - 10.99	-	-	-	-	-
11.00 - 11.49	-	-	-	-	-
11.50 - 11.99	-	-	-	2	-
12.00 - 12.99	-	-	1	-	-
13.00 - 13.99	-	-	-	8	-
14.00 - 14.99	-	-	-	1	-
15.00 - 15.99	-	-	-	1	-
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	-	1	-	-	-
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	-	-	-	-	-

	<u>PMK</u>	<u>WAE</u>	<u>WHB</u>	<u>YEB</u>	<u>YEP</u>
Total	5	1	1	12	29
Min. Length	5.63	22.44	12.91	11.93	5.39
Max. Length	7.36	22.44	12.91	15.04	9.76
Mean Length	6.36	22.44	12.91	13.50	6.98
# Measured	5	1	1	12	29
No Lengths for	0	0	0	0	1

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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 0	'07 1	'06 2	'05 3	'04 4	'03 5	'02 6	'01 7	'00 8	'99 9	'98 10	'97 11	'96 12	'95 13	'94 14	<'94 15+
Black Crappie																			
GN	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
TN	34	61	1	0	0	8	27	37	23	0	0	0	0	0	0	0	0	0	0
Totals:	36	61	1	0	0	8	28	38	23	0	0	0	0	0	0	0	0	0	0
Bluegill																			
GN	5	0	1	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0
TN	52	247	0	1	40	14	97	109	38	0	0	0	0	0	0	0	0	0	0
Totals:	57	247	1	1	40	14	99	111	39	0	0	0	0	0	0	0	0	0	0
Largemouth Bass																			
TN	1	0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Pumpkinseed																			
TN	2	0	3	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
Walleye																			
GN	2	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
TN	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Totals:	3	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0
Yellow Perch																			
GN	16	8	0	0	10	7	5	0	0	2	0	0	0	0	0	0	0	0	0
TN	9	16	5	0	6	11	3	0	5	0	0	0	0	0	0	0	0	0	0
Totals:	25	24	5	0	16	18	8	0	5	2	0	0	0	0	0	0	0	0	0

(1) Key to sampling gear abbreviations:

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

(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	31	21	5.04 - 7.02 - 17.56	0	N/A
	Snapping Turtle	2	2	11.42 - 13.23 - 15.04	0	N/A
	Spiney Softshell Turtle	2	2	8.19 - 8.47 - 8.74	0	N/A

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(2) Gender: If identified and reported.

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Survey Crew Notes

Fieldwork by Scott Mackenthun, Craig Berberich, and intern Jason Rhoten

Discussion

Middle Jefferson Lake is a 645 acre lake in LeSueur county located northwest of Elysian. The lake is accessed through the narrows on the east side of the lake from East Jefferson Lake. East Jefferson was surveyed the week of July 28th, 2008 to monitor the fish community. Middle Jefferson has a maximum depth of 9 feet, so partial winterkills occur infrequently.

Black bullhead was the predominant fish in the gill net catch at 118 fish per net. Freshwater drum were gill netted at a rate of 47 per gill net lift and common carp were captured at 34 per gill net lift. In the trap nets, black bullhead were captured at a rate of 26 per net, carp at 19 per net of which 9 on average were young of the year, and freshwater drum at 6 per net. Black crappie and bluegill were numerous in the trap nets at 11 and 33 fish per lift respectively.

Three walleye were caught in the combined gears. Yellow perch between 5.5 and 10 inches were caught in trap and gill nets; perch were taken at a rate of 12 fish per gill net lift. Six largemouth bass were taken in trap nets nearest the narrows to East Jefferson lake. One individual largemouth bass was over twenty inches. Other fish observed in the assessment include golden shiner, common shiner, hybrid sunfish, green sunfish, white bass, pumpkinseed, longnose gar, bigmouth buffalo, yellow bullhead, and bowfin (dogfish). Missing from the assessment were white crappie and northern pike, which have been sampled in years past in Middle Jefferson.

Connectivity exists between the entire Jefferson chain and German lake, so some fish migration is expected and the perpetual threat of Eurasian Watermilfoil moving in from German lake exists. Anglers are encouraged to clean and remove all vegetation from boats, trailers, and equipment and drain all water.

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 the Jefferson lake chain 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 waters 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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Status Of The Fishery

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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: 4/9/09 JCB



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