



Minnesota Department of Natural Resources
 Fisheries Management
 STANDARD LAKE SURVEY REPORT



Lake Name: German
 DOW Number: 40-0063-00

Survey Type: Population Assessment
 Survey ID Date: 06/17/2008

Lake Identification

Alternate Lake Name: N/A
 Primary Lake Class ID: 24
 DNR Sounding Map Number: C0432
 Alternate Lake Class ID: 24

Lake Location

Primary County: Le Sueur
 Nearest Town: Greenland

Legal Descriptions

Lake Center: Township - 109N Range - 24W Section - 5
 PLS Section Lake Center: 10902405

All Legal Descriptions:

Le Sueur County: Township - 109N Range - 24W Sections - 4, 5, 8, 9
 Township - 110N Range - 24W Sections - 32, 33

Area Office

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

Lake Access

(Information based on Re-Survey dated 07/13/1992)

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Concrete	NORTH SHORE DOUBLE RAMP.

Lake Characteristics

Lake Area (planimetered acres): 899.00
 GIS Lake Area (acres): 791.62
 DOW Lake Area (acres): 975.00
 Littoral Area (acres): 521.00
 Area in MN (acres): 791.62
 Maximum Depth (feet): 51.0
 Mean Depth (feet): 13.0
 GIS Shoreline Length (miles): 5.84
 Maximum Fetch (miles): 1.60
 Fetch Orientation (degrees): 157
 USGS Quad Map Number: U15c
 USGS Quad 24K GIS Index: 4129

Watershed Characteristics

Major Watershed

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

Minor Watershed

Name: German L
 Watershed Number: 106
 Watershed size (acres): 4,781

Surveys And Investigations

Re-Survey: 06/24/2002, 06/16/1997, 07/13/1992, 07/01/1987, 11/30/1981.

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POPULATION ASSESSMENT DATED 06/17/2008 FOR DOW NUMBER 40-0063-00

Surveys And Investigations (Continued)

Population Assessment: 06/17/2008, 07/12/1984.

Special Assessment: 05/20/2004, 07/06/1994.

Fish Diseases And Parasites

Species Examined	Number of Fish Examined			Examination Results	
	Internally	Externally	In Lab	Condition Observed	Number of Fish
walleye	-	-	-	Lymphocystis	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	06/20/2008	N/A	Surface	74.5	12.4
			5.0	73.9	11.9
			10.0	68.2	7.1
			15.0	66.4	5.6
			20.0	67.3	4.8
			25.0	66.6	3.1

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	06/20/2008	Surface	4.0	N/A	N/A	Green	Algae

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Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 8
 First Set Date: 06/16/2008
 Last Lift Date: 06/20/2008
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BLB	Black Bullhead	187	23.38	2.50	10.46	44.95
BLC	Black Crappie	128	16.00	2.50	6.91	16.50
BLG	Bluegill	381	47.63	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	3	0.38	0.20	0.50	0.80
FRD	Freshwater Drum	54	6.75	4.00	11.75	32.25
LMB	Largemouth Bass	3	0.38	0.25	0.50	0.83
NOP	Northern Pike	35	4.38	1.50	3.75	7.29
WAE	Walleye	9	1.13	1.17	2.82	6.33
WTS	White Sucker	1	0.13	0.40	1.00	2.17
YEP	Yellow Perch	171	21.38	2.00	10.50	27.94
Total Fish/Set:			121.50	* 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	89.43	11.18	0.48	0.29	0.44	0.66
BLC	Black Crappie	31.64	3.95	0.25	0.15	0.20	0.26
BLG	Bluegill	93.23	11.65	0.24	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	9.52	1.19	3.17	2.44	3.25	4.21
FRD	Freshwater Drum	75.46	9.43	1.40	0.25	0.50	1.13
LMB	Largemouth Bass	4.38	0.55	1.46	0.40	0.60	1.00
NOP	Northern Pike	128.14	16.02	3.66	2.02	2.68	3.50
WAE	Walleye	30.69	3.84	3.41	1.20	1.81	2.69
WTS	White Sucker	2.58	0.32	2.58	1.55	2.00	2.38
YEP	Yellow Perch	21.53	2.69	0.13	0.10	0.13	0.18
Total Pounds Fish/Set:			60.82	* Quartiles for Mean Weight			

STANDARD LAKE SURVEY REPORT
POPULATION ASSESSMENT DATED 06/17/2008 FOR DOW NUMBER 40-0063-00

Net Catch Summary by Numbers for TN

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

Number of Sets: 12
 First Set Date: 06/16/2008
 Last Lift Date: 06/20/2008
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BIB	Bigmouth Buffalo	3	0.25	0.20	0.25	0.75
BLB	Black Bullhead	176	14.67	0.71	3.75	25.65
BLC	Black Crappie	17	1.42	1.83	6.50	21.16
BLG	Bluegill	905	75.42	7.54	23.13	62.50
BOF	Bowfin (Dogfish)	11	0.92	0.38	0.75	1.29
CAP	Common Carp	19	1.58	0.38	0.74	2.00
FRD	Freshwater Drum	30	2.50	0.50	1.17	4.19
HSF	Hybrid Sunfish	1	0.08	N/A	N/A	N/A
LNG	Longnose Gar	3	0.25	N/A	N/A	N/A
PMK	Pumpkinseed	4	0.33	0.74	2.00	4.24
WAE	Walleye	3	0.25	0.27	0.60	1.24
WHB	White Bass	2	0.17	0.23	0.33	0.88
YEB	Yellow Bullhead	25	2.08	0.88	2.15	5.68
Total Fish/Set:			99.92	* 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%
BIB	Bigmouth Buffalo	10.03	0.84	3.34	2.50	4.13	5.65
BLB	Black Bullhead	82.81	6.90	0.47	0.28	0.43	0.62
BLC	Black Crappie	5.43	0.45	0.32	0.18	0.24	0.33
BLG	Bluegill	255.94	21.33	0.28	0.13	0.18	0.25
BOF	Bowfin (Dogfish)	48.62	4.05	4.42	2.28	3.33	4.10
CAP	Common Carp	111.03	9.25	5.84	2.58	4.07	6.02
FRD	Freshwater Drum	46.64	3.89	1.55	0.43	0.79	1.21
HSF	Hybrid Sunfish	0.34	0.03	0.34	N/A	N/A	N/A
LNG	Longnose Gar	2.72	0.23	0.91	N/A	N/A	N/A
PMK	Pumpkinseed	0.86	0.07	0.22	0.10	0.13	0.18
WAE	Walleye	13.81	1.15	4.60	0.80	1.50	2.78
WHB	White Bass	2.95	0.25	1.48	0.49	1.04	1.49
YEB	Yellow Bullhead	26.90	2.24	1.08	0.50	0.67	0.84
Total Pounds Fish/Set:			50.67	* Quartiles for Mean Weight			

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Length Frequency Distribution For GN

Standard gill net sets

(Field work conducted between 06/16/2008 and 06/20/2008)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>FRD</u>	<u>LMB</u>	<u>NOP</u>	<u>WAE</u>	<u>WTS</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	1	-	-	-	-	-	-	-
3.50 - 3.99	-	-	2	-	-	-	-	-	-	-
4.00 - 4.49	-	-	1	-	-	-	-	-	-	-
4.50 - 4.99	-	-	7	-	-	-	-	-	-	-
5.00 - 5.49	-	-	31	-	-	-	-	-	-	22
5.50 - 5.99	-	7	15	-	-	-	-	-	-	44
6.00 - 6.49	-	5	26	-	1	-	-	-	-	34
6.50 - 6.99	-	10	97	-	1	-	-	-	-	27
7.00 - 7.49	-	37	181	-	-	-	-	-	-	9
7.50 - 7.99	-	31	18	-	-	-	-	-	-	25
8.00 - 8.49	8	17	1	-	-	-	-	-	-	8
8.50 - 8.99	20	6	-	-	-	-	-	-	-	-
9.00 - 9.49	49	6	-	-	1	-	-	-	-	-
9.50 - 9.99	81	5	-	-	-	-	-	-	-	1
10.00 - 10.49	29	3	-	-	1	-	-	-	-	-
10.50 - 10.99	-	-	-	-	1	-	-	-	-	-
11.00 - 11.49	-	-	-	-	1	-	-	-	-	-
11.50 - 11.99	-	-	-	-	2	-	-	-	-	-
12.00 - 12.99	-	-	-	-	2	-	-	-	-	-
13.00 - 13.99	-	-	-	-	24	1	-	-	-	-
14.00 - 14.99	-	-	-	-	14	2	-	-	-	-
15.00 - 15.99	-	-	-	-	4	-	-	-	-	-
16.00 - 16.99	-	-	-	-	1	-	-	-	-	-
17.00 - 17.99	-	-	-	1	-	-	-	1	-	-
18.00 - 18.99	-	-	-	-	-	-	1	2	1	-
19.00 - 19.99	-	-	-	-	-	-	1	-	-	-
20.00 - 20.99	-	-	-	-	-	-	2	2	-	-
21.00 - 21.99	-	-	-	1	-	-	5	2	-	-
22.00 - 22.99	-	-	-	-	-	-	3	1	-	-
23.00 - 23.99	-	-	-	1	-	-	4	-	-	-
24.00 - 24.99	-	-	-	-	-	-	3	-	-	-
25.00 - 25.99	-	-	-	-	-	-	2	-	-	-
26.00 - 26.99	-	-	-	-	-	-	1	1	-	-
27.00 - 27.99	-	-	-	-	-	-	5	-	-	-
28.00 - 28.99	-	-	-	-	-	-	5	-	-	-
29.00 - 29.99	-	-	-	-	-	-	1	-	-	-
30.00 - 30.99	-	-	-	-	-	-	1	-	-	-
31.00 - 31.99	-	-	-	-	-	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	1	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	1	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	-	-	-
Total	187	127	380	3	54	3	35	9	1	170
Min. Length	8.03	5.83	3.07	17.20	6.14	13.27	18.11	17.83	18.31	5.20
Max. Length	10.47	10.47	8.11	23.15	33.74	14.41	34.76	26.65	18.31	9.76
Mean Length	9.52	7.69	6.73	20.72	13.70	14.02	25.03	20.86	18.31	6.43
# Measured	183	124	341	3	54	3	35	9	1	136
No Lengths for	4	4	40	0	0	0	0	0	0	35

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Length Frequency Distribution For TN

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

(Field work conducted between 06/16/2008 and 06/20/2008)

	<u>BIB</u>	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>FRD</u>	<u>HSF</u>	<u>LNG</u>	<u>PMK</u>	<u>WAE</u>	<u>WHB</u>	<u>YEB</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	-	1	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	-	-	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	-	-	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	-	-	5	-	-	-	-	-	1	-	-	-
5.50 - 5.99	-	-	-	18	-	-	-	-	-	-	-	-	-
6.00 - 6.49	-	-	1	45	-	-	-	-	-	1	-	-	-
6.50 - 6.99	-	-	1	180	-	-	2	-	-	1	-	-	-
7.00 - 7.49	-	-	1	540	-	-	-	1	-	1	-	-	-
7.50 - 7.99	-	1	4	110	-	-	-	-	-	-	-	-	-
8.00 - 8.49	-	3	5	5	-	-	-	-	-	-	-	-	-
8.50 - 8.99	-	23	-	-	-	-	-	-	-	-	-	-	-
9.00 - 9.49	-	47	1	-	-	-	-	-	-	-	-	-	-
9.50 - 9.99	-	89	2	-	-	-	-	-	-	-	-	-	-
10.00 - 10.49	1	12	1	-	-	-	-	-	-	-	-	-	1
10.50 - 10.99	-	1	-	-	-	-	-	-	-	-	-	-	-
11.00 - 11.49	-	-	1	-	-	-	-	-	-	-	-	-	5
11.50 - 11.99	-	-	-	-	-	-	-	-	-	-	-	-	2
12.00 - 12.99	-	-	-	-	-	-	-	-	-	-	-	-	11
13.00 - 13.99	-	-	-	-	-	-	1	-	-	-	-	-	5
14.00 - 14.99	-	-	-	-	-	-	6	-	-	-	-	1	1
15.00 - 15.99	-	-	-	-	-	-	12	-	-	-	-	1	-
16.00 - 16.99	-	-	-	-	-	-	9	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	1	-	-	-	-	-	1	-	-
18.00 - 18.99	-	-	-	-	2	3	-	-	-	-	-	-	-
19.00 - 19.99	1	-	-	-	1	-	-	-	-	-	-	-	-
20.00 - 20.99	1	-	-	-	-	1	-	-	-	-	-	-	-
21.00 - 21.99	-	-	-	-	1	3	-	-	-	-	-	-	-
22.00 - 22.99	-	-	-	-	1	2	-	-	-	-	1	-	-
23.00 - 23.99	-	-	-	-	-	4	-	-	1	-	-	-	-
24.00 - 24.99	-	-	-	-	1	1	-	-	2	-	-	-	-
25.00 - 25.99	-	-	-	-	1	2	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	1	1	-	-	-	-	1	-	-
27.00 - 27.99	-	-	-	-	-	2	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	-	2	-	-	-	-	-	-	-	-
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>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>FRD</u>	<u>HSF</u>	<u>LNG</u>	<u>PMK</u>	<u>WAE</u>	<u>WHB</u>	<u>YEB</u>
Total	3	176	17	904	11	19	30	1	3	4	3	2	25
Min. Length	10.43	7.68	6.14	3.62	17.01	18.15	6.50	7.32	23.70	5.04	17.99	14.72	10.24
Max. Length	20.39	10.63	11.30	8.23	28.35	27.17	16.73	7.32	24.69	7.24	26.57	15.35	14.29
Mean Length	16.81	9.46	8.37	7.06	22.86	23.00	14.98	7.32	24.13	6.33	22.47	15.04	12.43
# Measured	3	121	17	273	11	19	30	1	3	4	3	2	25
No Lengths for	0	55	0	632	0	0	0	0	0	0	0	0	0

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POPULATION ASSESSMENT DATED 06/17/2008 FOR DOW NUMBER 40-0063-00

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 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	39	85	4	0	0	11	93	15	5	0	0	0	0	0	0	0	0	0	0
TN	7	3	7	0	0	1	5	3	1	0	0	0	0	0	0	0	0	0	0
Totals:	46	88	11	0	0	12	98	18	6	0	0	0	0	0	0	0	0	0	0
Bluegill																			
GN	34	347	0	0	0	6	58	174	107	36	0	0	0	0	0	0	0	0	0
TN	9	171	725	0	0	1	69	0	73	37	0	0	0	0	0	0	0	0	0
Totals:	43	518	725	0	0	7	127	174	180	73	0	0	0	0	0	0	0	0	0
Largemouth Bass																			
GN	3	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0
Northern Pike																			
GN	34	0	1	0	1	6	19	6	2	0	0	0	0	0	0	0	0	0	0
Pumpkinseed																			
TN	3	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
Walleye																			
GN	8	1	0	0	0	0	0	0	1	5	1	1	1	0	0	0	0	0	0
TN	3	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0
Totals:	11	1	0	0	0	0	0	0	1	6	2	1	2	0	0	0	0	0	0
White Bass																			
TN	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Yellow Perch																			
GN	40	131	0	0	4	62	70	17	11	7	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 Num	Number Measured	Length (inches) Min - Mean - Max	Number Weighed	Weight (pounds) Min - Mean - Max
TN	Painted Turtle	2	2	5.83 - 6.11 - 6.38	0	N/A
	Snapping Turtle	3	3	9.06 - 14.31 - 20.08	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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POPULATION ASSESSMENT DATED 06/17/2008 FOR DOW NUMBER 40-0063-00

Discussion

German lake in LeSueur County is an 899 acre lake northwest of Elysian. A DNR-owned public access is located on the north side of the lake off LeSueur county road 12. German lake is connected to the Jefferson chain of lakes to the west, and is within the Cannon River major watershed. Eurasian watermilfoil was found in the lake in 2002. Boaters should be sure to remove all aquatic vegetation from boats, trailers, and equipment when leaving German lake to prevent the spread of Eurasian watermilfoil to other lakes.

German lake was surveyed the week of June 16th, 2008 to monitor the fish community. Bluegills were the most numerous fish in the assessment in both trap and gill net catches. Bluegills averaged 48 fish per gill net lift and 76 fish per trap net lift. Average (mean) size of bluegill was around 7 inches for both gear types, a "preferred" length in stock density indices. Bluegill were spawning during the assessment and anglers at the public access reported good bluegill fishing.

Black crappie abundance is nearing the upper quartile range at 16 fish per gill net lift. Trap netting for black crappie was not as effective as gill netting during this survey; crappies were caught in the trap nets at a rate of 1.4 fish per trap net lift. Crappie ranged in length from 6 to 11 inches, with the average (mean) fish measuring 8 inches.

Yellow perch abundance remained stable at 21.38 fish per gill net lift. Perch ranged between 5 and 10 inches. Walleye abundance was low; 1.13 fish per gill net lifted were measured, a value that is within the lowest quartile range. Walleye were large, between 18 and 27 inch long.

Black bullhead abundance increased since the record low levels observed in the 2002 survey. Black bullheads were netted at a rate of 23.4 fish per gill net and 14.6 fish per trap net. Black bullheads were small, ranging between 8 to 10.5 inches.

German features a nice northern pike population. Northern Pike averaged 4.3 fish per gill net lift, which is above average for this lake type. Pike ranged from 18 to 35 inches in length, with the average (mean) size being 25 inches. The average pike weight of 3.7 pounds is above the 75th percentile for this lake type.

Three largemouth bass were caught in the gill nets. Bass are not well sampled by passive gears (gill nets and trap nets) and electrofishing is not scheduled until the next full fisheries survey. White crappie and channel catfish are also present in the lake, although none were observed in this assessment. Other fish seen in the survey include white sucker, bowfin (dogfish), bigmouth buffalo, freshwater drum, yellow bullhead, white bass, longnose gar, pumpkinseed sunfish, and 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 German 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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Status Of The Fishery

German lake in LeSueur County is an 899 acre lake northwest of Elysian. A DNR-owned public access is located on the north side of the lake off LeSueur county road 12. German lake is connected to the Jefferson chain of lakes to the west, and is within the Cannon River major watershed. Eurasian watermilfoil was found in the lake in 2002. Boaters should be sure to remove all aquatic vegetation from boats, trailers, and equipment when leaving German lake to prevent the spread of Eurasian watermilfoil to other lakes.

German lake was surveyed the week of June 16th, 2008 to monitor the fish community. Bluegills were the most numerous fish in the assessment in both trap and gill net catches. Bluegills averaged 48 fish per gill net lift and 76 fish per trap net lift. Average (mean) size of bluegill was around 7 inches for both gear types, a "preferred" length in stock density indices. Bluegill were spawning during the assessment and anglers at the public access reported good bluegill fishing.

Black crappie abundance is nearing the upper quartile range at 16 fish per gill net lift. Trap netting for black crappie was not as effective as gill netting during this survey; crappies were caught in the trap nets at a rate of 1.4 fish per trap net lift. Crappie ranged in length from 6 to 11 inches, with the average (mean) fish measuring 8 inches.

Yellow perch abundance remained stable at 21.38 fish per gill net lift. Perch ranged between 5 and 10 inches. Walleye abundance was low; 1.13 fish per gill net lifted were measured, a value that is within the lowest quartile range. Walleye were large, between 18 and 27 inch long.

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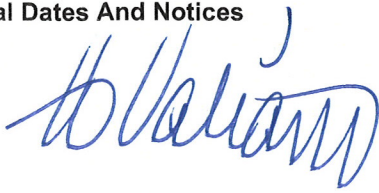
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Approval Dates And Notices



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

Date Approved By Southern Region Fisheries Manager: 6/9/09 JG (J3)



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