



Minnesota Department of Natural Resources
 Fisheries Management
 STANDARD LAKE SURVEY REPORT



Lake Name: Tetonka

Survey Type: Re-Survey

DOW Number: 40-0031-00

Survey ID Date: 07/20/2009

Lake Identification

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

DNR Sounding Map Number: B0201
 Alternate Lake Class ID: 24

Lake Location

Primary County: Le Sueur

Nearest Town: Waterville

Legal Descriptions

Lake Center: Township - 109N Range - 23W Section - 20
 PLS Section Lake Center: 10902320

All Legal Descriptions:

Le Sueur County: Township - 109N Range - 23W Sections - 18, 19, 20, 21, 22, 27, 28, 29
 Township - 109N Range - 24W Section - 24

Area Office

Area Name: Waterville
 Region Name: Southern

ORG Code: F417
 Region Number: 4

Lake Access

Station ID	Ownership	Public Use	Type	Location / Comments
AC - 1	DNR	Open to Public use	Asphalt	DNR Public Access inside Antl Bay. 15 Parking spots for vehicles with trailers on asphalt, 10 parking spots for vehicles with trailers on the grass, and 3 parking spots for handicapped access. No parking allowed on entrance road.
AC - 2	City	Open to Public use	Asphalt	Cannon River City Launch. Can accomodate approximately 23 vehicles with trailers; overflow parking can use city streets.

Lake Characteristics

Lake Area (planimetered acres): 1336.00	GIS Shoreline Length (miles): 11.64
GIS Lake Area (acres): 1357.77	Maximum Fetch (miles): 4.00
DOW Lake Area (acres): 1336.00	Fetch Orientation (degrees): N/A
Littoral Area (acres): 548.00	USGS Quad Map Number: V15a
Area in MN (acres): 1357.77	USGS Quad 24K GIS Index: 4230
Maximum Depth (feet): 35.0	
Mean Depth (feet): 19.0	

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Watershed Characteristics

Major Watershed

Name: Cannon River
 Watershed Number: 39
 Watershed size (acres): 940,540

Minor Watershed

Name: Tetonka L
 Watershed Number: 104
 Watershed size (acres): 6,659

Surveys And Investigations

Initial Survey: 07/22/1947.

Re-Survey: 07/20/2009, 07/12/2004, 07/12/1999, 07/20/1994, 08/07/1989, 08/26/1981, 08/25/1969, 07/20/1955, 07/21/1952.

Population Assessment: 08/26/1986.

Special Assessment: 10/05/2006, 10/11/2005, 10/10/2004, 05/25/2004, 10/14/2003, 10/10/2002, 11/02/2001, 10/04/2000, 09/21/1999, 10/08/1998, 09/18/1997, 09/22/1996, 10/17/1995, 10/05/1994, 09/30/1993, 10/20/1992, 10/09/1991, 10/09/1990, 10/12/1989, 10/04/1988.

Natural Reproduction Check: 10/24/2007.

Lake Inlets

(Field work conducted on 07/20/2009)

Station ID	Name	Kittle Number	Origin and Cover Type (Primary and Secondary)	Surface Temp (°F)
IN - 1	Ditch from wetlands in South Antl Bay	N/A	Ditch Crops (P) and Hardwoods (S)	N/A
IN - 2	Ditch west of Lagoons	N/A	Ditch Marshland (P) and Hardwoods (S)	N/A
IN - 3	Ditch into Lagoons	N/A	Ditch Marshland (P) and Hardwoods (S)	N/A
IN - 4	Cannon River	M-48	Lake Crops (P) and Marshland (S)	N/A
IN - 5	From Fish Lake	N/A	Lake Hardwoods (P) and Marshland (S)	N/A
IN - 6	Hatchery Creek	N/A	Marsh Hardwoods (P) and Crops (S)	N/A
IN - 7	West of Best Point	N/A	Tile Crops (P) and Hardwoods (S)	N/A
IN - 8	Along Highway 13	N/A	Tile Crops (P) and Hardwoods (S)	N/A

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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	10.00	1.00	0.0	0.00	No	N/A
IN - 2	8.00	0.50	0.0	0.00	No	N/A
IN - 3	7.00	0.50	0.0	0.00	No	N/A
IN - 4	40.00	2.00	40.0	0.00	No	N/A
Inlet Origin: Shields Lake						
IN - 5	5.00	0.50	0.0	0.00	No	N/A
IN - 6	5.00	0.50	0.0	0.50	No	N/A
IN - 7	30.00	0.50	0.0	0.00	No	N/A
IN - 8	10.00	0.50	0.0	0.00	No	N/A

Lake Outlets

(Field work conducted on 07/20/2009)

Station ID	Name	Kittle Number	Tributary To
OUT - 1	Cannon River	M-48	40-0002-00

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	50.00	3.00	150.00	0.0	No	No barrier

Shoreline Characteristics

Use / Coverage	% Use	Relief	Location / Comments
Residential	50	Flat	N/A
Forested	40	Rolling	N/A
Marsh	10	Flat	N/A

Riparian Landscape Observations

Soil Types (Primary and Secondary): Glacial Till (P), Loam (S)
Soil Comments: N/A
Number of Homes/Cabins: 309
Comments About Shoreline Development: N/A

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Resorts And Campgrounds

Station ID	Resort/Campground Name	Number of Cabins	Number of Campsites	Comments
RE - 1	Best Point Resort	7	10	N/A
RE - 2	Hidden Cove Campgrounds	0	40	Owned by Jerry and Linda Miller, owners of Best Point Resort
RE - 3	Tetonka Lake Resort	6	29	N/A
Totals:		13	79	

Fish Spawning Conditions

Station ID	Species Name	Rating	Location / Comments
SP - 1	black crappie	Good	Tetonka's muck, sand, and gravel bottoms cater to crappie spawning, although emergent vegetation is hard to come by. Curlyleaf pondweed is often the dominant early season vegetation and crappie site selection is often near weed edges.
	bluegill	Excellent	Plenty of sandy areas adjacent to vegetation, particularly wild celery on Dickinson flats and the east and west ends of the lake.
	largemouth bass	Fair	Most emergent plants and woody cover have been removed from the lake by shoreline owners, but some nests were observed during bass electrofishing on the inside weed edge (mostly curlyleaf pondweed).
	northern pike	Poor	Northern pike used to be raised in Gray's Pond (waterbody immediately upstream on the Cannon River) for release to Tetonka Lake. Little wetland connectivity exists with Tetonka Lake today, pike spawning may be limited to less successful in lake spawning.
	smallmouth bass	Poor	A small spawning population exists in the lake, but overall reproduction is poor. There may be interspecific competition with other centrarchids for spawn sites, the overall population may be too small for reproduction to do anything beyond replacement, or there may be too few lithophilic spawn sites that attract smallmouth bass.
	walleye	Poor	Evidence of walleye natural reproduction has been discovered in the past. A small spawning run of walleye may enter the Cannon River when peak flows coincide with spawning season. In-lake spawning over rare gravel substrates may explain some occasional recruitment in non-stocked years.
	white bass	Fair	Sand and gravel substrates near the Cannon River outlet and inlet are the presumed pelagic spawning locations of white bass.
	yellow perch	Good	Perch can generally use the entire lake for spawning shortly after ice out. Curlyleaf pondweed provides early season vegetation to lay egg strands on.

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Fish Diseases And Parasites

Species Examined	Number of Fish Examined			Examination Results	
	Internally	Externally	In Lab	Condition Observed	Number of Fish
bluegill	-	-	-	Ich or White Spot Disease	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	07/20/2009	N/A	Surface	69.6	6.8
			3.0	69.6	6.8
			6.0	69.6	6.7
			9.0	69.4	6.5
			12.0	69.4	6.4
			15.0	69.4	6.2
			18.0	69.3	6.2
			21.0	69.3	6.2
			24.0	68.5	2.9

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	07/20/2009	Surface	8.5	N/A	N/A	Green	Algae

Water Quality (Winter Observations)

Station ID	Sampling Date	Fish In Hole	Hydrogen Sulfide	Ice Thickness (Inches)	Snow Depth (Inches)	Winter Kill Suspected
WQ - 1	07/20/2009	No	No	N/A	N/A	No

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Net Catch Summary by Numbers for GN

Standard gill net sets

Number of Sets: 15
First Set Date: 07/20/2009
Last Lift Date: 07/28/2009
Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BLB	Black Bullhead	26	1.73	2.50	10.46	44.95
BLC	Black Crappie	46	3.07	2.50	6.91	16.50
BLG	Bluegill	25	1.67	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	3	0.20	0.20	0.50	0.80
CAP	Common Carp	5	0.33	0.33	1.00	3.00
FRD	Freshwater Drum	171	11.40	4.00	11.75	32.25
LNG	Longnose Gar	1	0.07	N/A	N/A	N/A
NOP	Northern Pike	48	3.20	1.50	3.75	7.29
QBS	Quillback	2	0.13	N/A	N/A	N/A
SMB	Smallmouth Bass	1	0.07	0.20	0.50	2.29
WAE	Walleye	36	2.40	1.17	2.82	6.33
WHB	White Bass	33	2.20	0.27	0.83	3.83
WTS	White Sucker	11	0.73	0.40	1.00	2.17
YEB	Yellow Bullhead	4	0.27	0.50	2.00	7.51
YEP	Yellow Perch	65	4.33	2.00	10.50	27.94
Total Fish/Set:			31.80	* 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	24.14	1.61	0.93	0.29	0.44	0.66
BLC	Black Crappie	19.19	1.28	0.42	0.15	0.20	0.26
BLG	Bluegill	5.54	0.37	0.22	N/A	N/A	N/A
BOF	Bowfin (Dogfish)	18.67	1.24	6.22	2.44	3.25	4.21
CAP	Common Carp	28.99	1.93	5.80	1.87	3.41	5.24
FRD	Freshwater Drum	127.13	8.48	0.74	0.25	0.50	1.13
LNG	Longnose Gar	1.31	0.09	1.31	N/A	N/A	N/A
NOP	Northern Pike	212.13	14.14	4.42	2.02	2.68	3.50
QBS	Quillback	2.78	0.19	1.39	N/A	N/A	N/A
SMB	Smallmouth Bass	2.21	0.15	2.21	0.86	1.08	1.50
WAE	Walleye	105.39	7.03	2.93	1.20	1.81	2.69
WHB	White Bass	39.08	2.61	1.18	N/A	N/A	N/A
WTS	White Sucker	24.58	1.64	2.23	1.55	2.00	2.38
YEB	Yellow Bullhead	4.85	0.32	1.21	0.46	0.61	0.82
YEP	Yellow Perch	20.43	1.36	0.31	0.10	0.13	0.18
Total Pounds Fish/Set:			42.43	* Quartiles for Mean Weight			

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Net Catch Summary by Numbers for TN

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

Number of Sets: 15
 First Set Date: 07/20/2009
 Last Lift Date: 07/24/2009
 Target Species: N/A

Abbr	Species	Total Fish	Number Per Set	Quartiles for Lake Class 24*		
				25%	50%	75%
BLB	Black Bullhead	14	0.93	0.71	3.75	25.65
BLC	Black Crappie	72	4.80	1.83	6.50	21.16
BLG	Bluegill	417	27.80	7.54	23.13	62.50
BOF	Bowfin (Dogfish)	21	1.40	0.38	0.75	1.29
CCF	Channel Catfish	1	0.07	N/A	N/A	N/A
CAP	Common Carp	17	1.13	0.38	0.74	2.00
FRD	Freshwater Drum	88	5.87	0.50	1.17	4.19
HSF	Hybrid Sunfish	2	0.13	N/A	N/A	N/A
NOP	Northern Pike	5	0.33	N/A	N/A	N/A
PMK	Pumpkinseed	1	0.07	0.74	2.00	4.24
WAE	Walleye	5	0.33	0.27	0.60	1.24
WHB	White Bass	4	0.27	0.23	0.33	0.88
WTS	White Sucker	1	0.07	0.20	0.44	1.00
YEB	Yellow Bullhead	35	2.33	0.88	2.15	5.68
YEP	Yellow Perch	11	0.73	0.25	0.60	1.67
Total Fish/Set:			46.27	* 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	12.06	0.80	0.86	0.28	0.43	0.62
BLC	Black Crappie	19.23	1.28	0.27	0.18	0.24	0.33
BLG	Bluegill	71.45	4.76	0.17	0.13	0.18	0.25
BOF	Bowfin (Dogfish)	85.68	5.71	4.08	2.28	3.33	4.10
CCF	Channel Catfish	2.65	0.18	2.65	N/A	N/A	N/A
CAP	Common Carp	56.20	3.75	3.31	2.58	4.07	6.02
FRD	Freshwater Drum	127.12	8.47	1.44	0.43	0.79	1.21
HSF	Hybrid Sunfish	0.25	0.02	0.12	N/A	N/A	N/A
NOP	Northern Pike	14.20	0.95	2.84	N/A	N/A	N/A
PMK	Pumpkinseed	0.20	0.01	0.20	0.10	0.13	0.18
WAE	Walleye	9.54	0.64	1.91	0.80	1.50	2.78
WHB	White Bass	5.43	0.36	1.36	0.49	1.04	1.49
WTS	White Sucker	3.66	0.24	3.66	1.61	2.16	2.84
YEB	Yellow Bullhead	33.81	2.25	0.97	0.50	0.67	0.84
YEP	Yellow Perch	2.97	0.20	0.27	0.10	0.13	0.20
Total Pounds Fish/Set:			29.63	* Quartiles for Mean Weight			

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Electrofishing Catch Summary for EF

Standard electrofishing

Total run-time for all stations: 01:00:00
Total on-time for all stations: 01:00:00
First Sampling Date: 05/26/2009
Last Sampling Date: 05/26/2009
Daylight Sampling: Yes
Target Species: All ages largemouth bass

Abbr	Species	Summary By Numbers			Summary By Weight (pounds)			
		Total Number	Number per Hour		Total Weight	Lbs per Hour		Mean Weight
			Run-Time	On-Time		Run-Time	On-Time	
LMB	Largemouth Bass	14	14.00	14.00	25.89	25.89	25.89	1.85

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

Standard gill net sets

(Field work conducted between 07/20/2009 and 07/28/2009)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>FRD</u>	<u>LNG</u>	<u>NOP</u>	<u>QBS</u>	<u>SMB</u>	<u>WAE</u>	<u>WHB</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
5.00 - 5.49	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1
5.50 - 5.99	-	2	1	-	-	1	-	-	-	-	-	-	-	-	2
6.00 - 6.49	-	-	1	-	-	1	-	-	-	-	-	-	-	-	1
6.50 - 6.99	-	-	7	-	-	2	-	-	-	-	-	-	-	-	1
7.00 - 7.49	-	-	5	-	-	8	-	-	-	-	-	1	-	-	4
7.50 - 7.99	-	2	-	-	-	9	-	-	-	-	-	-	-	-	8
8.00 - 8.49	-	6	3	-	-	15	-	-	-	-	-	-	-	-	7
8.50 - 8.99	-	14	1	-	-	23	-	-	-	-	2	-	-	-	16
9.00 - 9.49	-	9	-	-	-	10	-	-	-	-	-	-	-	-	14
9.50 - 9.99	1	2	-	-	-	10	-	-	-	-	-	1	-	-	5
10.00 - 10.49	1	1	-	-	-	5	-	-	-	-	-	2	-	-	5
10.50 - 10.99	6	4	-	-	-	1	-	-	-	-	-	2	-	-	1
11.00 - 11.49	4	1	-	-	-	3	-	-	-	-	-	3	-	-	-
11.50 - 11.99	1	1	-	-	-	2	-	-	-	-	2	1	-	1	-
12.00 - 12.99	11	-	-	-	-	6	-	-	-	-	1	5	1	2	-
13.00 - 13.99	1	-	-	-	-	26	-	-	1	-	-	2	-	-	-
14.00 - 14.99	1	-	-	-	-	33	-	-	-	-	1	4	1	1	-
15.00 - 15.99	-	-	-	-	-	10	-	-	1	1	-	9	1	-	-
16.00 - 16.99	-	-	-	-	-	2	-	-	-	-	4	2	1	-	-
17.00 - 17.99	-	-	-	-	-	1	-	-	-	-	2	-	3	-	-
18.00 - 18.99	-	-	-	-	1	1	-	1	-	-	3	-	3	-	-
19.00 - 19.99	-	-	-	-	-	-	-	1	-	-	3	-	-	-	-
20.00 - 20.99	-	-	-	-	-	-	-	1	-	-	2	-	1	-	-
21.00 - 21.99	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-
22.00 - 22.99	-	-	-	-	1	-	-	3	-	-	8	-	-	-	-
23.00 - 23.99	-	-	-	-	1	-	-	2	-	-	1	-	-	-	-
24.00 - 24.99	-	-	-	1	1	-	-	8	-	-	1	-	-	-	-
25.00 - 25.99	-	-	-	-	-	-	-	4	-	-	1	-	-	-	-
26.00 - 26.99	-	-	-	1	1	-	1	7	-	-	2	-	-	-	-
27.00 - 27.99	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	1	-	-	-	4	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
30.00 - 30.99	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
31.00 - 31.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32.00 - 32.99	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
33.00 - 33.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34.00 - 34.99	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
35.00 - 35.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
= > 36.00	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Total	26	45	25	3	5	169	1	46	2	1	35	32	11	4	65
Min. Length	9.57	4.29	3.62	24.06	18.50	5.83	26.77	18.15	13.66	15.94	8.58	7.20	12.83	11.97	5.39
Max. Length	14.17	11.81	8.74	28.39	26.38	18.62	26.77	38.27	15.16	15.94	26.81	16.85	20.87	14.65	10.55
Mean Length	11.75	8.72	6.16	26.30	22.96	11.35	26.77	26.30	14.41	15.94	19.28	13.29	17.20	12.89	8.58
# Measured	25	44	22	3	5	168	1	44	2	1	35	32	11	4	60
No Lengths for	1	2	3	0	0	3	0	4	0	0	1	1	0	0	5

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

Standard gill net sets

(Field work conducted between 07/20/2009 and 07/28/2009)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>FRD</u>	<u>LNG</u>	<u>NOP</u>	<u>QBS</u>	<u>SMB</u>	<u>WAE</u>	<u>WHB</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 36.00	26	46	25	3	5	171	1	47	2	1	36	33	11	4	65
36.00 - 36.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37.00 - 37.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38.00 - 38.99	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
39.00 - 39.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40.00 - 40.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	26	46	25	3	5	171	1	48	2	1	36	33	11	4	65
Min. Length	9.57	4.29	3.62	24.06	18.50	5.83	26.77	18.15	13.66	15.94	8.58	7.20	12.83	11.97	5.39
Max. Length	14.17	11.81	8.74	28.39	26.38	18.62	26.77	38.27	15.16	15.94	26.81	16.85	20.87	14.65	10.55
Mean Length	11.75	8.72	6.16	26.30	22.96	11.35	26.77	26.30	14.41	15.94	19.28	13.29	17.20	12.89	8.58
# Measured	25	44	22	3	5	168	1	44	2	1	35	32	11	4	60
No Lengths for	1	2	3	0	0	3	0	4	0	0	1	1	0	0	5

STANDARD LAKE SURVEY REPORT
RE-SURVEY DATED 07/20/2009 FOR DOW NUMBER 40-0031-00

Length Frequency Distribution For TN

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

(Field work conducted between 07/20/2009 and 07/24/2009)

	<u>BLB</u>	<u>BLC</u>	<u>BLG</u>	<u>BOF</u>	<u>CAP</u>	<u>CCF</u>	<u>FRD</u>	<u>HSF</u>	<u>NOP</u>	<u>PMK</u>	<u>WAE</u>	<u>WHB</u>	<u>WTS</u>	<u>YEB</u>	<u>YEP</u>
< 3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00 - 3.49	-	-	44	-	-	-	-	-	-	-	-	-	-	-	-
3.50 - 3.99	-	-	55	-	-	-	-	-	-	-	-	-	-	-	-
4.00 - 4.49	-	3	20	-	-	-	-	-	-	-	-	-	-	-	-
4.50 - 4.99	-	10	15	-	-	-	-	1	-	-	-	-	-	-	-
5.00 - 5.49	-	7	38	-	-	-	-	-	-	-	-	-	-	-	-
5.50 - 5.99	-	11	56	-	-	-	-	1	-	-	-	-	-	-	-
6.00 - 6.49	-	3	44	-	-	-	2	-	-	1	-	-	-	2	2
6.50 - 6.99	-	1	46	-	-	-	1	-	-	-	-	-	-	-	1
7.00 - 7.49	1	1	45	-	-	-	2	-	-	-	-	-	-	2	-
7.50 - 7.99	-	2	31	-	-	-	4	-	-	-	-	-	-	1	2
8.00 - 8.49	-	5	14	-	-	-	1	-	-	-	-	-	-	-	1
8.50 - 8.99	-	8	9	-	-	-	2	-	-	-	-	-	-	-	1
9.00 - 9.49	-	12	-	-	-	-	2	-	-	-	-	-	-	1	2
9.50 - 9.99	-	6	-	-	-	-	1	-	-	-	-	-	-	-	1
10.00 - 10.49	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
10.50 - 10.99	1	-	-	-	-	-	1	-	-	-	-	-	-	2	1
11.00 - 11.49	6	1	-	-	-	-	-	-	-	-	-	-	-	4	-
11.50 - 11.99	2	2	-	-	-	-	1	-	-	-	-	-	-	7	-
12.00 - 12.99	4	-	-	-	2	-	1	-	-	-	3	-	-	6	-
13.00 - 13.99	-	-	-	-	-	-	11	-	-	-	-	2	-	4	-
14.00 - 14.99	-	-	-	-	1	-	14	-	-	-	-	1	-	3	-
15.00 - 15.99	-	-	-	-	-	-	23	-	-	-	-	-	-	2	-
16.00 - 16.99	-	-	-	-	-	-	14	-	1	-	-	-	-	-	-
17.00 - 17.99	-	-	-	-	1	-	3	-	-	-	-	-	-	-	-
18.00 - 18.99	-	-	-	1	4	-	1	-	1	-	-	1	-	-	-
19.00 - 19.99	-	-	-	3	4	-	2	-	-	-	-	-	-	-	-
20.00 - 20.99	-	-	-	2	2	1	-	-	1	-	-	-	1	-	-
21.00 - 21.99	-	-	-	3	2	-	1	-	-	-	1	-	-	-	-
22.00 - 22.99	-	-	-	4	-	-	-	-	-	-	1	-	-	-	-
23.00 - 23.99	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
24.00 - 24.99	-	-	-	6	1	-	-	-	-	-	-	-	-	-	-
25.00 - 25.99	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
26.00 - 26.99	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
27.00 - 27.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28.00 - 28.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29.00 - 29.99	-	-	-	1	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	14	72	417	21	17	1	88	2	5	1	5	4	1	35	11
Min. Length	7.48	4.13	3.15	18.58	12.13	20.08	6.30	4.84	16.73	6.22	12.44	13.78	20.51	6.14	6.06
Max. Length	12.83	11.97	8.94	29.02	24.25	20.08	23.07	5.79	29.37	6.22	22.36	18.39	20.51	15.55	10.55
Mean Length	11.39	7.26	5.61	22.64	18.69	20.08	14.19	5.31	22.35	6.22	16.41	15.09	20.51	11.61	8.26
# Measured	14	72	316	21	17	1	88	2	5	1	5	4	1	35	11
No Lengths for	0	0	101	0	0	0	0	0	0	0	0	0	0	0	0

STANDARD LAKE SURVEY REPORT
RE-SURVEY DATED 07/20/2009 FOR DOW NUMBER 40-0031-00

Length Frequency Distribution For EF

Standard electrofishing

(Field work conducted on 05/26/2009)

	<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	1
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	2
9.50 - 9.99	-
10.00 - 10.49	1
10.50 - 10.99	-
11.00 - 11.49	-
11.50 - 11.99	-
12.00 - 12.99	1
13.00 - 13.99	1
14.00 - 14.99	1
15.00 - 15.99	1
16.00 - 16.99	-
17.00 - 17.99	3
18.00 - 18.99	3
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	-
= > 36.00	-

	<u>LMB</u>
Total	14
Min. Length	5.63
Max. Length	18.62
Mean Length	14.08
# Measured	14
No Lengths for	0

STANDARD LAKE SURVEY REPORT
RE-SURVEY DATED 07/20/2009 FOR DOW NUMBER 40-0031-00

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	'09	'08	'07	'06	'05	'04	'03	'02	'01	'00	'99	'98	'97	'96	'95	<'95
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Channel Catfish																			
TN	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0

(1) Key to sampling gear abbreviations:

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
	Snapping Turtle	2	2	10.63 - 11.42 - 12.20	0	N/A
	Spiney Softshell Turtle	1	0	N/A	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.

STANDARD LAKE SURVEY REPORT
RE-SURVEY DATED 07/20/2009 FOR DOW NUMBER 40-0031-00

Field Notes - General Field

Channel catfish spines were sectioned and read. Tetonka's aging structures are cataloged and available if needed for future use. Staff and timing shortfalls did not leave enough room for fish aging.

Discussion

Tetonka Lake in Le Sueur County is a 1,336 acre lake located in the town of Waterville. The lake is accessible from two public water accesses. A city-owned access is open in Waterville off 1st street North on the Cannon River. The parking lot and access can be found from across town by driving towards the blue water tower. A second public access is found on the south side of the lake in Antl Bay, off Le Sueur County Road 14.

Tetonka Lake was surveyed the week of July 20th, 2009 to monitor the fish community and aquatic habitat. Water clarity was excellent; secchi depths measured 8.5 feet. It is possible the exceptional water clarity resulted in lowered net catches compared to historical catches.

Bluegill are a feature on Tetonka Lake and likely are the most targeted species by both summer and winter anglers. Bluegill averaged 28 fish per trap net, ranging in size from 3 to 9 inches in length. Average bluegill size was 5.6 inches.

Black crappie averaged 3.1 and 4.8 fish per net in gill net and trap net catches respectively. Average size for all gears was 7.8 inches. Size range was good, with fish ranging from 4.1 to 12.0 inches.

One channel catfish was caught during the survey. Channel catfish have a long stocking history in Tetonka Lake. Channel catfish are found throughout the Cannon River chain of lakes.

Northern pike averaged 3.2 fish per gill net lift. Pike ranged from 18 to 38 inches in length, with an average of 26 inches. Average weight was 4.4 pounds, which exceeded the upper quartile for lakes of Tetonka's classification (class 24).

Walleye maintain a low level of abundance on Tetonka Lake. Walleye averaged 2.4 fish per gill net lift. Walleye ranged from 9 to 27 inches in length and averaged 19 inches. Walleye fry are stocked 3 out of 4 years.

White bass averaged 2.2 fish per gill net lift. Size was good; white bass averaged 13 inches and one 18 inch fish was caught. White bass, while generally underutilized throughout the Cannon River chain of lakes, do provide a good fight to sport anglers and have firm white flesh.

Yellow perch averaged 4.3 fish per gill net lift. Perch averaged 8.6 inches in length, and ranged from 5.4 to 10.5 inches. Some large individuals can be found in the lake; Tetonka has historically had better yellow perch size distribution than other area lakes.

Largemouth bass were sampled in late May with a boom electroshocking boat. Only 14 fish per hour of run time were sampled. This sample may have not been representative because of cold weather. Tetonka is usually considered a good bass fishing lake; at one time it was the home of the Minnesota state record largemouth bass.

A small population of smallmouth bass exists in Tetonka Lake. Only one fish was sampled in the 2009 assessment in a gill net. Rocky point and some of the midlake rocky humps tend to hold a few smallmouth bass. Other fish observed in the survey include black bullhead, bowfin (dogfish), common carp, freshwater drum (sheephead), longnose gar, quillback sucker, white sucker, yellow bullhead, hybrid sunfish, and pumpkinseed sunfish.

A point-intercept or grid sampling survey of aquatic plants was conducted on July 27, 2009 according to the methodology of Perleberg 2006. This survey was conducted to continue quantify aquatic plant distribution to support the Lake Vegetation Management Plan. Figure 1 shows 545 potential sampling point locations, 100 meter grid spacing, in relation to water depth contours. Figure 2 shows 178 points that fell in the vegetated zone found to be in 10 feet of water or less and the number of rooted plant species found at those locations. Tetonka's aquatic plant community is only moderately diverse with 14 species or groups identified (Table 1). The distribution of rooted plants found at over 10% of vegetated zone sites are shown in Figures 3-8.

Discussion (Continued)

In 2009 a proposal to manage Tetonka for muskellunge as one of 5 new lakes statewide was drafted. Consistent with the Long Range Plan for Muskellunge and Northern Pike Management through 2020, the proposal is based on angler input, geographic distribution, fish community, physical size, and various biological and chemical criteria. The proposal is designed to provide an additional opportunity to muskie anglers, particularly in southern Minnesota where such a fishing opportunity is limited. The proposal is open to public comment in the Fall of 2010. Anyone interested in more information on the Tetonka Lake proposal or muskellunge are encouraged to visit <http://www.dnr.state.mn.us/fish/muskellunge/muskiefaq.html> or call the Waterville area fisheries office at the number below.

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 Tetonka 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.

Reference: Perleberg D. 2006. Aquatic vegetation of German Lake, LeSueur County, Minnesota (DOW 40-0063-00), June 22, 2004. Minnesota Department of Natural Resources, Ecological Services Division, 1601 Minnesota Dr., Brainerd, MN 56401. 17 pp.

STANDARD LAKE SURVEY REPORT
RE-SURVEY DATED 07/20/2009 FOR DOW NUMBER 40-0031-00

Status Of The Fishery

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Status Of The Fishery (Continued)

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STANDARD LAKE SURVEY REPORT
RE-SURVEY DATED 07/20/2009 FOR DOW NUMBER 40-0031-00

Approval Dates And Notices

Date Approved By Waterville Area Fisheries Supervisor: 05/11/2010

Date Approved By Southern Region Fisheries Manager: _____



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Standard Lake Survey Report revision: 05/05/2010-RJE. Data Date: 05/27/2010 at 2:10 pm .

REPORT OVERVIEW - FOR OFFICE USE ONLY

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

Lake Name: Tetonka
DOW Number: 40-0031-00

Survey Type: Re-Survey
Survey ID Date: 07/20/2009

Survey Status: Area Signed

The following 11 (of 31) report components are not included in this report:

1. Current Water Level
2. Benchmark And Gauge Descriptions / Locations
3. Water Level History*
4. Water Level History - Readings*
5. Water Level History - Station Summary*
6. Water Control Structure (Dam)
7. Erosion And Pollution
8. Aquatic Vegetation And Shoalwater Substrates
9. Laboratory Analysis Of Water Chemistry
10. Length At Capture With Last Incremental Length*
11. Back-Calculated Lengths

* 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.

* 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 after noon on 05/27/2010 may not be reflected in the Distribution tables until 05/28/2010.