

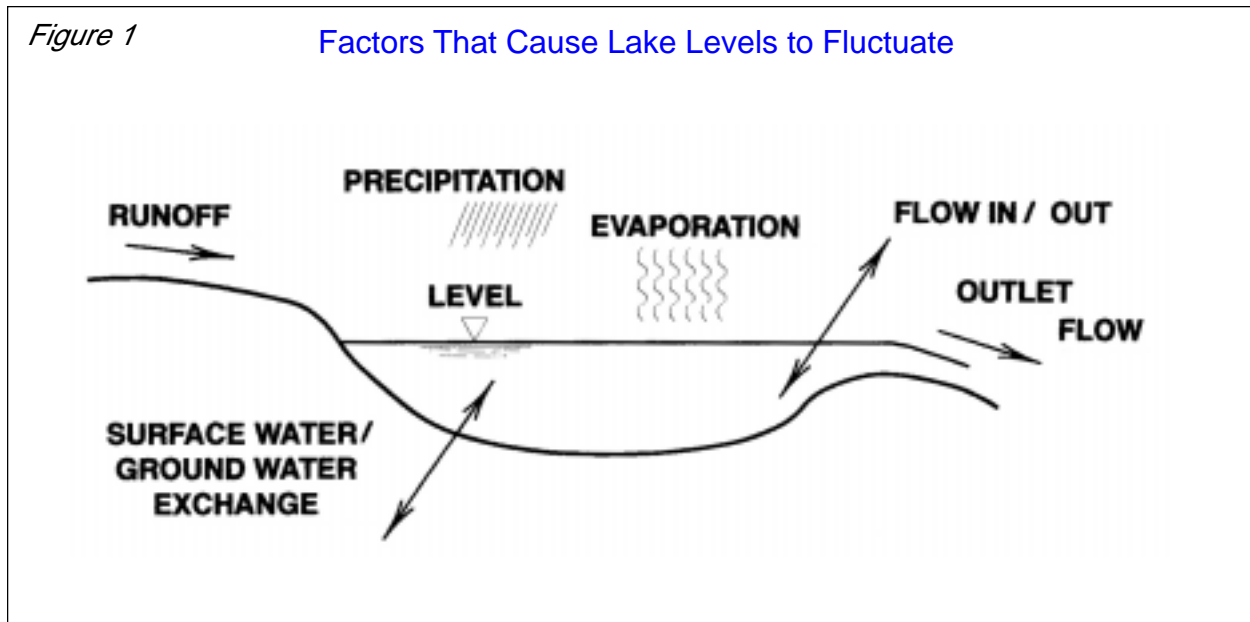
Lake Levels

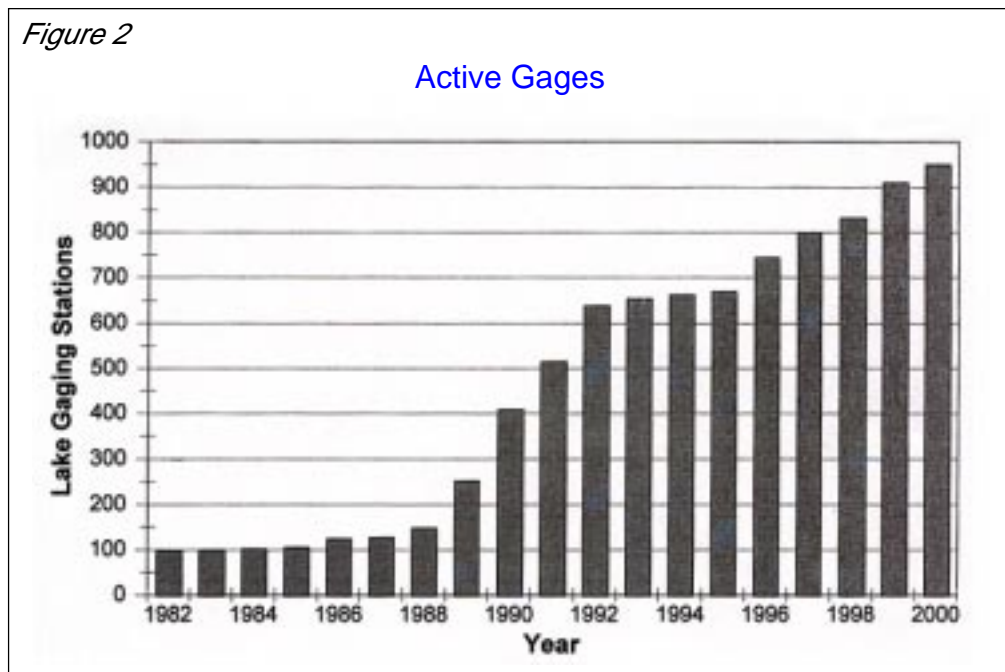
The water levels of all lakes fluctuate, some more than others. The primary factor that affects water level changes is the quantity and distribution of precipitation (rain & snow). Other factors that contribute to water level changes are outlet conditions, beaver dams, ground water movement and watershed characteristics (Figure 1). Knowing and understanding the history of water level fluctuations can help lake users deal with problems associated with the changing levels.

Historical water level data are useful in calibrating hydrologic and hydraulic computer models. These data also benefit watershed management authorities and other governmental units in preparing local water management plans and to locate building and sewage treatment sites.



The success of monitoring water levels is greatly dependent on citizen volunteers and cooperating organizations who participate in the DNR Waters Lake Level Minnesota (LLM) program. Lake levels were actively monitored at nearly 1000 sites in 2000 by citizen volunteers and cooperative organizations (Figure 2). Volunteer observers usually live on or near a lake, which makes it convenient to obtain weekly or more frequent readings. There is no cost to the volunteers to be in this program as the gage and installation are provided by DNR Waters. Each year the volunteer receives an updated water level graph and summary sheet that contains the information they provided.





Lake level monitoring has also been accomplished in cooperation with various public and private organizations including:

- Federal (USGS, COE, NRCS)
- State (DNR)
- Counties
- Cities
- Soil & Water Conservation Districts
- Watershed Districts
- Consulting Land Surveyors and Engineers
- Power and Mining Companies

In order to improve geographic coverage, pull together all available data and eliminate possible duplication of efforts, DNR Waters has initiated cooperative programs with these organizations. This component of LLM accounts for approximately 290 lakes, up 20 percent from WY1998.

All lake level readings received are entered into Lakesdb©, a database program for easy management and access of recorded lake levels and other useful information. This information is now available on the internet (see “Lake Finder” sidebar on page 28).

Annual Lake Level Fluctuation

Minnesota lakes typically fluctuate one to two vertical feet in a given year., but historical fluctuations have been recorded in excess of ten feet. Water Year 1999 saw a statewide average fluctuation of 1.24 feet, which corresponds to the above-normal precipitation received during the year. Water Year 2000 had an average fluctuation of 1.05 feet (averages for six years are shown in Figure 3). The tables on pages 34 to 40 display fluctuations for Water Year 1999, Water Year 2000, an average fluctuation for the indicated period of record and the range between the historical high and low.

Figure 3

Water Year	Average Fluctuation Statewide (ft)
1995	1.03
1996	1.24
1997	1.55
1998	1.04
1999	1.24
2000	1.05

Lake Level Data on the DNR Website

“Lake Finder” is a feature of both the DNR website (www.dnr.state.mn.us) and the DNR Waters website (www.dnr.state.mn.us/waters). Lake Finder provides access to DNR Fisheries lake surveys and lake maps, Pollution Control Agency water quality and clarity data and the Health Department fish consumption advisory.

In 2000, DNR Waters added a new option titled “lake water levels”. A single click on the checkmark below “lake water levels” will display a concise summary of recorded lake levels for the indicated period of record, a lake level graph for the last ten years (if enough data points are available), the ordinary high water (OHW) elevation, datum adjustment and reference benchmark (see Figure 4).

Most of the recorded water levels for each lake are collected by volunteers involved with the Lake Level Minnesota program. DNR Waters presently has water level information for approximately 3300 lakes.

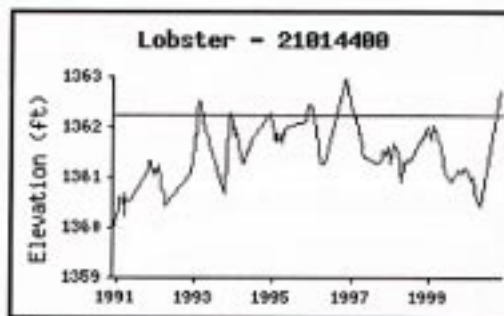
Figure 4

Lake name: Lobster

County: Douglas

Water Level Data

Period of record: 10/23/1936 to 04/25/2001
of readings: 1137
Highest recorded: 1362.93 ft (05/01/1997)
Highest known: 1364.2 ft
Lowest recorded: 1351.73 ft (10/23/1936)
Recorded range: 11.2 ft
Average water level: 1357.02 ft
Last reading: 1362.68 ft (04/25/2001)
OHW elevation: 1362.2 ft
Datum: 1929 (ft)



Last 10 years of data, click to enlarge.

Download lake level data as: [\[dBase\]](#) [\[ASCII\]](#) (if you have trouble try right clicking on the download link and choosing the "Save ... As" option.)

Benchmarks

Elevation: 1364.92 ft Date Set: 02/06/1979
Datum: 1929 (ft)

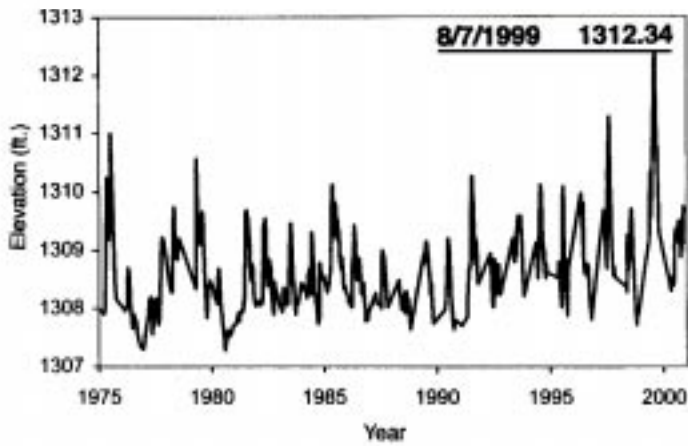
Benchmark Location
Township: 128 Range: 38 Section: 19

Description: Brass disk in right upstream abutment of Lobster Lk outlet dam.

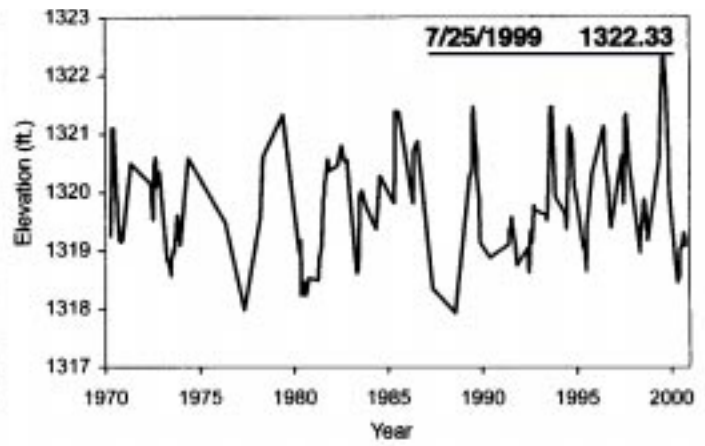
Lake Level Trends

Many lakes, primarily located in the northern half of the state, experienced their highest recorded levels during 1999. Lake level hydrographs for five representative lakes are shown on page 29, with their peak levels and corresponding dates highlighted.

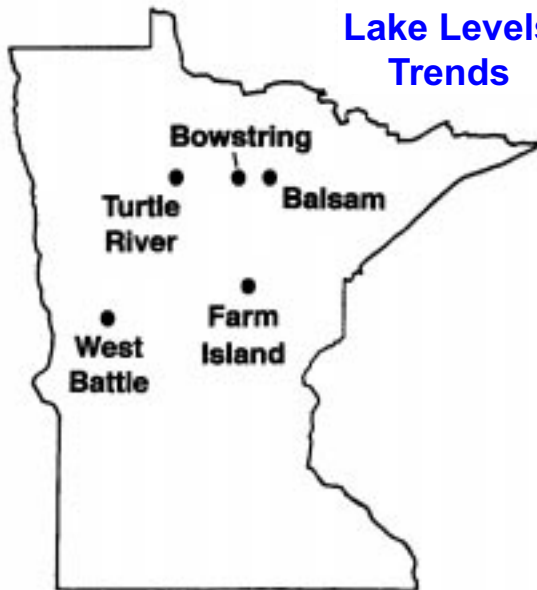
Turtle River Lake (4-111) Beltrami County



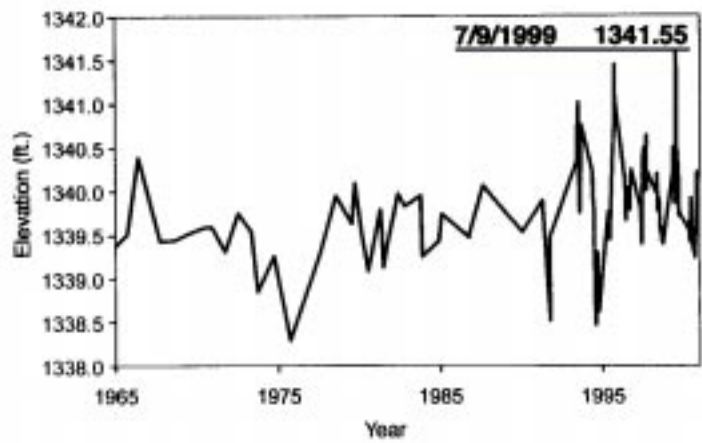
Bowstring Lake (31-813) Itasca County



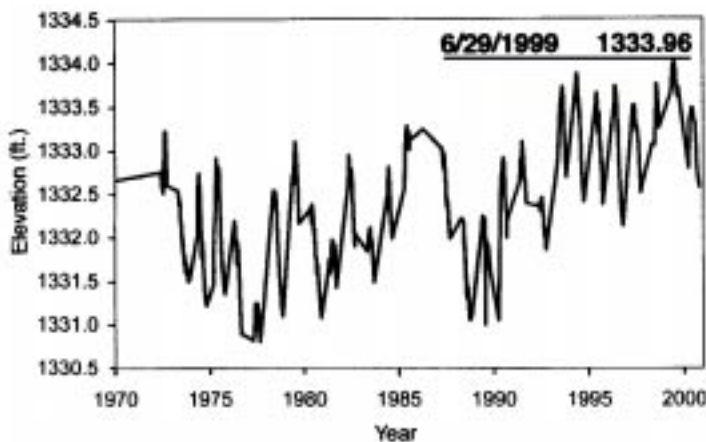
**Lake Levels
Trends**



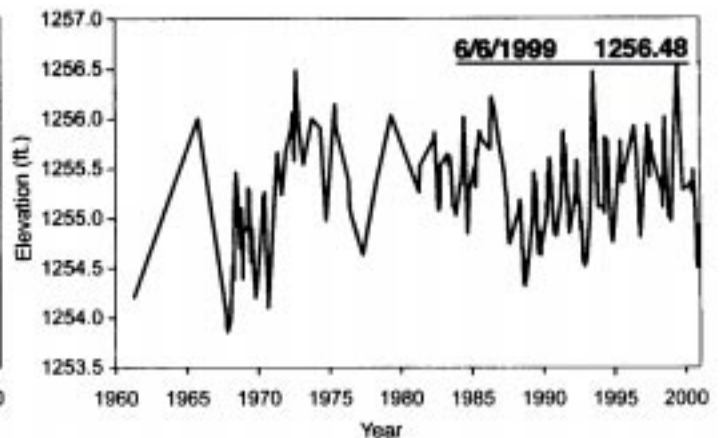
Balsam Lake (31-813) Itasca County



West Battle Lake (56-239) Otter Tail County



Farm Island Lake (1-159) Aitkin County



Landlocked Basins

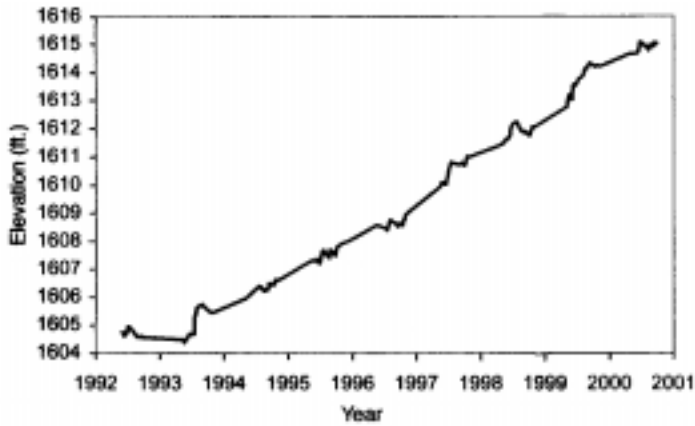
A landlocked lake has no regularly-functioning surface outlet channel, a small watershed, and typically experiences large, long-term water level fluctuations. The importance of ground water contributions to landlocked lakes can make them a good indicator of local ground water levels and movement.

The graphs on page 31 represent water levels for five landlocked basins that experienced their highest levels during 1999.

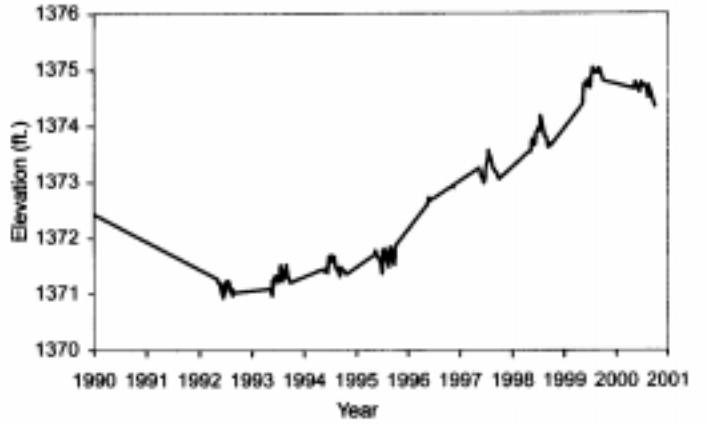
Ten-Year Trends

For many lakes that are presently monitored, reliable information has been collected for more than ten years. A ten-year average is used as a reference mark when comparing water year data to a longer-term average, and is useful in locating trends in a particular basin. Lakes graphed on pages 32 and 33 show above average levels in WY1999 in response to above average precipitation (see Figure 5 on page 5). With sharp geographical differences in precipitation in WY2000 (see Figure 14 on page 12), lakes in the northern half of the state continued to be above their ten-year average while lakes in central and southwestern Minnesota were below average.

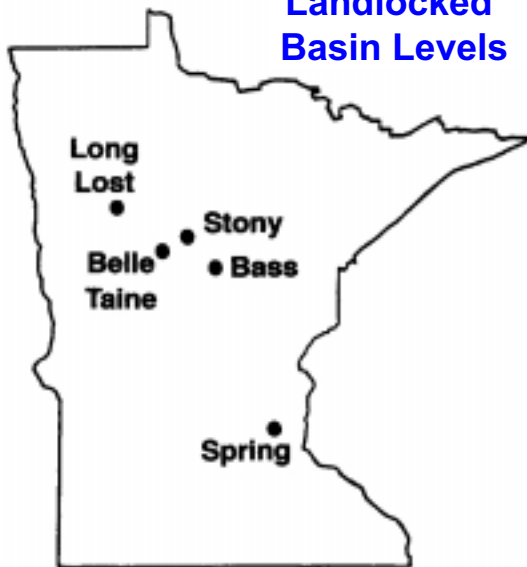
Long Lost Lake (15-68) Clearwater County



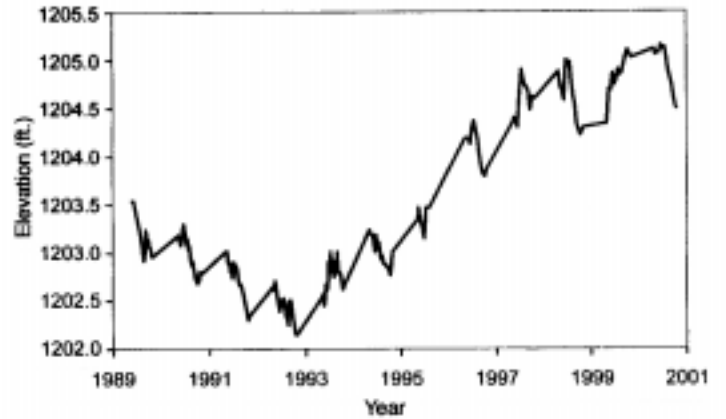
Stony Lake (11-371) Cass County



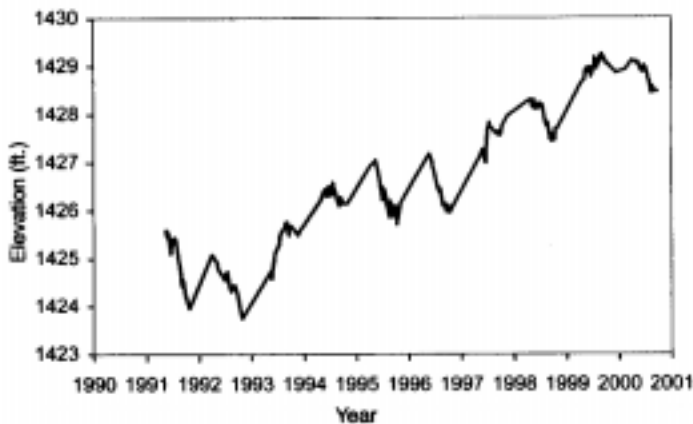
**Landlocked
Basin Levels**



Bass Lake (18-256) Crow Wing County



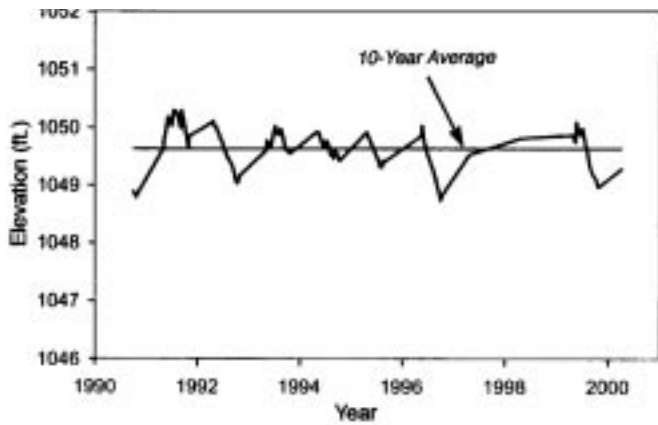
Belle Taine Lake (29-146) Hubbard County



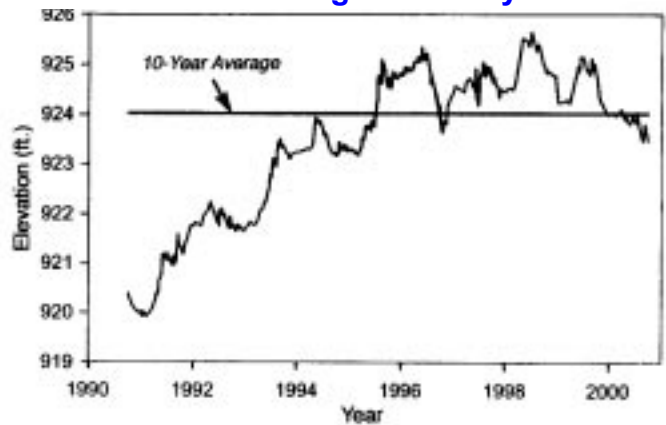
Spring Lake (2-71) Anoka County



Lake Sylvia (86-289) Wright County



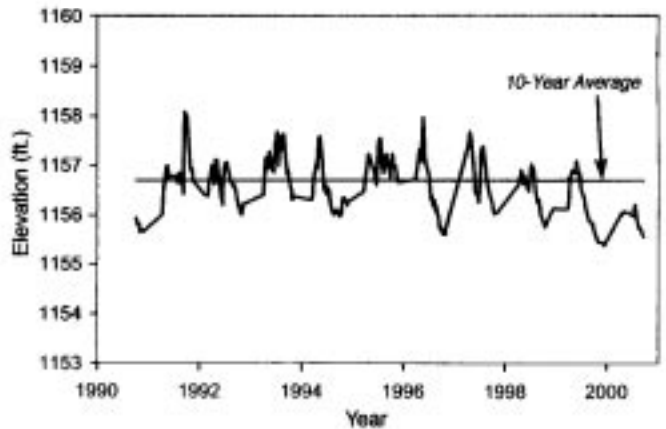
**White Bear Lake (2-167)
Washington County**



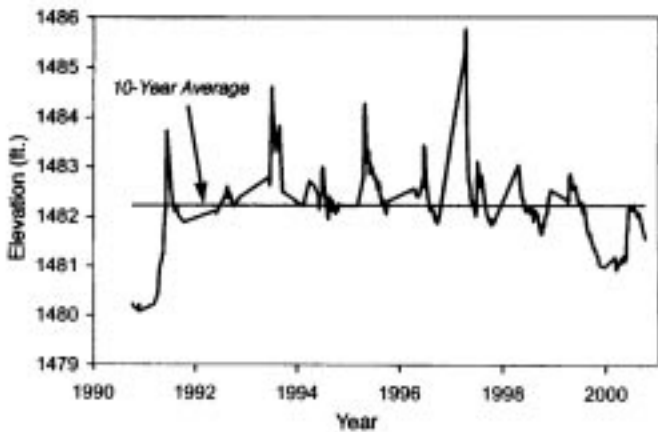
**Ten-Year
Trends**



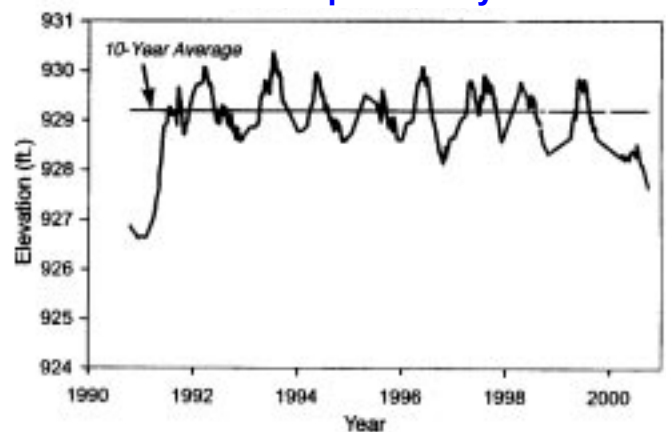
Green Lake (34-79) Kandiyohi County



Lake Shetek (51-46) Murray County

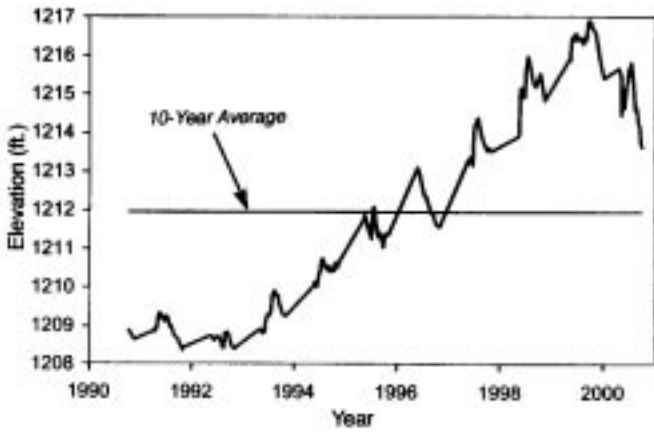


**Lake Minnetonka (27-133)
Hennepin County**

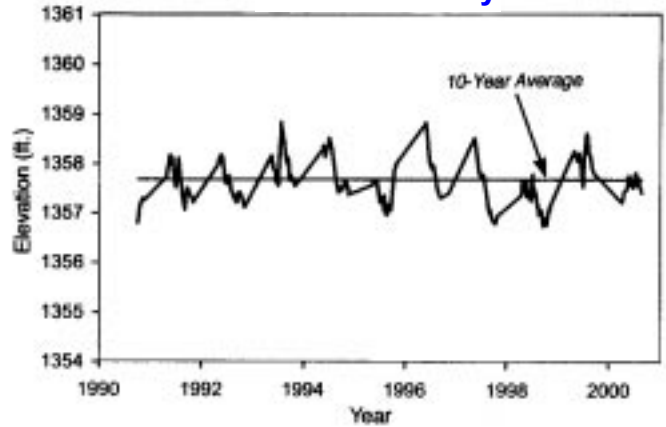


May 2001

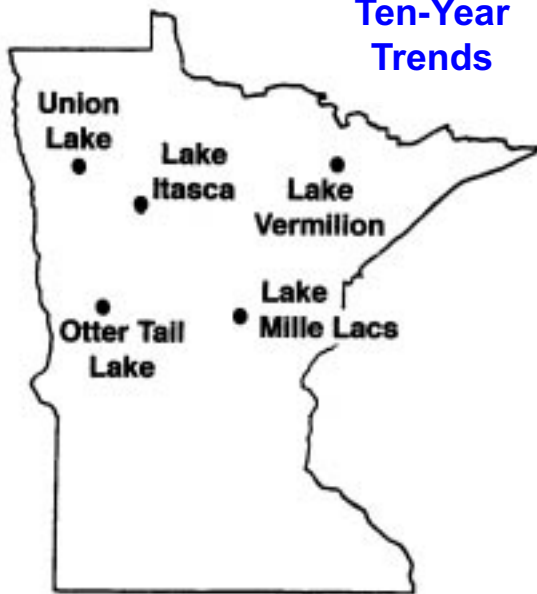
Union Lake (60-217) Polk County



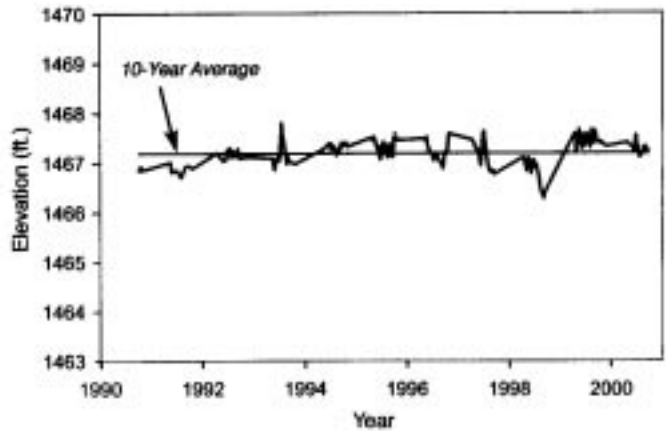
**Lake Vermillion (69-37)
St. Louis County**



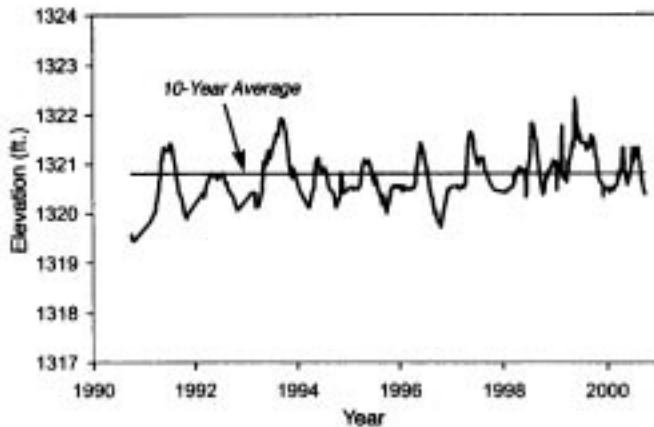
**Ten-Year
Trends**



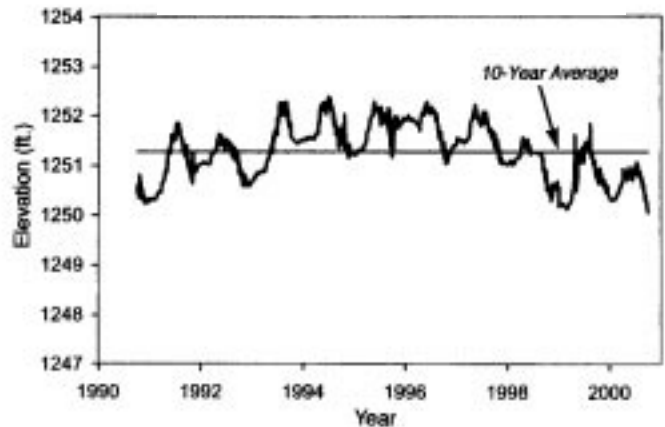
Lake Itasca (15-16) Clearwater County



**Otter Tail Lake (56-242)
Otter Tail County**



**Lake Mille Lacs (48-02)
Mille Lacs County**



Annual Lake Level Fluctuation (feet)

Lake Name	WY99	WY00	WYAv.	# Yrs.	Range	Lake Name	WY99	WY00	WYAv.	# Yrs.	Range
AITKIN COUNTY						BECKER COUNTY (cont):					
Big Sandy (1-62)	3.36	2.40	5.31	(102)	16.83	Elbow (3-159)	0.88	0.87	1.23	(9)	3.33
Blackface (1-45)	0.80	0.79	0.75	(9)	1.25	Eunice (3-503)	0.34	0.26	0.58	(10)	1.87
Cedar (1-209)	2.06	0.74	1.61	(50)	3.87	Height of Land (3-195)	1.68	0.98	1.53	(43)	4.45
Clear (1-93)	0.75	0.43	0.85	(30)	4.39	Ice Cracking (3-156)	0.85	0.98	1.11	(11)	4.64
Dam (1-96)	1.42	0.97	1.23	(17)	2.66	Ida (3-582)	1.11	0.68	0.97	(13)	4.50
Elm Island (1-123)	1.46	1.12	1.33	(7)	3.23	Juggler (3-136)	0.56	0.54	0.78	(8)	4.93
Farm Island (1-159)	1.51	0.82	1.01	(23)	3.28	Little Bemidji (3-234)	0.68	0.70	0.97	(6)	2.74
Fleming (1-105)	0.50	0.84	0.73	(9)	1.90	Little Toad (3-189)	0.95	0.62	0.69	(7)	1.79
Gun (1-99)	0.99	0.77	0.71	(11)	1.68	Long (3-383)	0.38	0.44	0.53	(14)	1.64
Hanging Kettle (1-170)	1.43	0.40	1.47	(15)	3.75	Maud (3-500)	0.66	0.30	0.74	(9)	1.86
Horseshoe (1-34)	0.50	0.59	0.70	(6)	1.10	Melissa (3-475)	1.05	1.63	1.09	(25)	6.30
Lone (1-125)	0.22	0.74	0.64	(10)	4.65	Muskrat (3-360)	0.53	0.64	0.88	(28)	2.81
Long (1-101)	0.52	0.32	0.52	(8)	1.40	Pickereel (3-287)	1.40	0.72	1.00	(9)	5.83
Minnewawa (1-33)	1.52	0.67	0.83	(18)	1.82	Rock (3-293)	1.76	1.10	1.26	(6)	2.01
Rat (1-77)	1.12	0.57	1.09	(8)	3.95	Round (3-155)	0.84	2.66	1.19	(18)	2.97
Rock (1-72)	0.68	0.94	0.76	(7)	1.68	Sallie (3-359)	1.08	0.84	1.24	(33)	5.58
Round (1-23)	0.58	0.57	0.64	(8)	1.43	Straight (3-10)	0.48	0.35	0.52	(15)	6.16
Round (1-204)	1.33	0.80	0.94	(10)	2.20	Talac (3-619)	0.59	0.98	1.29	(8)	9.72
Spirit (1-178)	0.47	0.25	0.53	(20)	3.03	Toad (3-107)	0.98	1.14	1.21	(20)	5.20
Sugar (1-87)	0.77	0.62	0.73	(30)	2.65	Two Inlets (3-17)	0.95	1.21	1.24	(19)	3.91
Waukenabo (1-136)	1.38	1.50	1.36	(19)	4.34	Upper Cormorant (3-588)					
ANOKA COUNTY							0.48	0.90	1.06	(25)	3.89
Baldwin (2-13)	3.14	1.34	2.97	(26)	6.86	White Earth (3-328)	1.02	1.52	1.01	(20)	3.34
Bunker (2-90)	0.94	3.38	1.69	(15)	7.87	BELTRAMI COUNTY					
Coon (2-42)	0.73	1.29	1.07	(32)	4.84	Bemidji (4-130)	2.04	1.43	1.77	(17)	4.25
Crooked (2-84)	1.01	1.77	0.94	(16)	3.40	Big Bass					
Fawn (2-35)	0.56	1.06	1.00	(12)	4.64	(east basin) (4-132)	2.67	2.81	1.18	(6)	4.25
Golden (2-45)	1.14	0.84	0.87	(12)	2.44	Big Bass					
Ham (2-53)	0.82	1.98	1.08	(16)	4.78	(west basin) (4-132)	0.70	1.49	0.59	(6)	2.05
Howard (2-16)	0.83	0.69	0.95	(11)	2.46	Cass (4-30)	2.51	2.15	1.91	(54)	4.83
Itasca (2-110)	0.71	3.45	1.57	(11)	8.25	Gallagher (Rhoda)(4-92)					
Laddie (2-72)	0.83	2.20	1.03	(9)	4.19		1.13	1.21	0.80	(28)	2.39
Martin (2-34)	0.84	0.60	1.14	(22)	4.08	Long (4-76)	1.06	0.42	0.76	(14)	2.85
Moore (2-75)	0.79	0.75	0.93	(12)	1.76	Red (4-35)	3.03	1.70	1.63	(55)	6.93
Netta (2-52)	0.68	1.85	1.11	(17)	5.56	Stump (4-130)	1.74	1.60	2.24	(17)	5.70
Otter (2-3)	1.12	1.04	1.63	(78)	6.72	Turtle River (4-111)	4.62	1.20	1.83	(28)	5.06
Reshanau (2-9)	1.92	0.66	1.88	(11)	4.54	BENTON COUNTY					
Rice (2-8)	3.14	1.34	3.08	(12)	6.64	Little Rock (5-13)	0.38	0.56	0.63	(7)	1.17
Rogers (2-104)	1.39	2.35	1.43	(12)	5.35	BIG STONE COUNTY					
Rondeau (2-15)	0.60	0.70	0.86	(9)	1.94	Big Stone (6-152)	1.30	1.20	2.37	(31)	10.83
Round (2-89)	0.82	2.54	1.22	(16)	5.93	East Toqua (6-138)	0.89	0.95	1.56	(10)	4.90
Sand Shore (2-102)	0.96	1.12	0.91	(9)	2.32	BLUE EARTH COUNTY					
Sandy (2-80)	0.80	0.89	1.36	(9)	2.98	Duck (7-53)	1.18	0.96	1.08	(10)	3.17
Spring (2-71)	0.95	2.25	1.59	(46)	6.60	BROWN COUNTY					
BECKER COUNTY						Sleepy Eye (8-45)	0.80	0.70	1.49	(13)	5.54
Bad Medicine (3-85)	1.31	0.71	0.90	(14)	6.21	Somsen (8-18)	1.19	1.56	3.09	(10)	8.88
Big Cormorant (3-576)	0.48	0.98	1.09	(35)	10.30						
Cotton (3-286)	0.60	0.82	0.98	(34)	5.15						
Detroit (3-381)	0.70	1.01	0.96	(22)	2.44						

May 2001

Annual Lake Level Fluctuation (feet)

Lake Name	WY99	WY00	WYAv.	# Yrs.	Range	Lake Name	WY99	WY00	WYAv.	# Yrs.	Range
CARLTON COUNTY						CLEARWATER COUNTY					
Big (9-32)	0.76	0.63	0.59	(8)	1.52	Itasca (15-16)	0.44	0.44	0.71	(33)	2.21
Chub (9-8)	0.69	1.09	0.96	(14)	3.47	Long Lost (15-68)	2.58	0.87	1.38	(9)	10.76
Eagle (9-57)	1.35	0.93	0.79	(8)	1.88	COOK COUNTY					
Eddy (9-39)	2.57	1.78	2.58	(7)	4.17	Clearwater (16-139)	1.55	0.90	1.11	(6)	1.55
Little Hanging Horn (9-35)						Flour (16-147)	0.74	0.54	0.64	(11)	1.88
	3.02	1.61	2.20	(10)	3.53	Gunflint (16-356)	1.25	1.33	1.68	(10)	3.33
Park (9-29)	0.90	0.79	0.69	(10)	1.65	Poplar (16-239)	1.33	0.27	1.12	(12)	3.70
Torch Light (9-25)	1.46	0.77	0.93	(8)	1.86	Saganaga (16-633)	1.02	1.24	1.80	(10)	5.15
CARVER COUNTY						Sea Gull (16-629)	1.19	0.97	1.72	(9)	3.44
Berliner (10-103)	1.46	1.20	1.19	(10)	3.95	COTTONWOOD COUNTY					
Hydes (10-88)	1.16	1.03	0.76	(7)	3.83	Cottonwood (17-22)	1.77	2.27	1.94	(13)	9.90
Lotus (10-6)	1.22	0.56	1.38	(30)	3.90	CROW WING COUNTY					
Minnewashta (10-9)	1.44	0.80	1.30	(15)	3.40	Bass (18-256)	0.80	0.54	0.67	(12)	3.00
Oak (10-93)	0.77	1.49	1.09	(6)	3.26	Bonnie (18-259)	0.83	0.58	0.65	(11)	2.90
Patterson (10-86)	1.50	0.76	1.23	(11)	3.40	Clark (18-374)	0.94	0.30	0.82	(12)	1.73
Riley (10-2)	1.29	0.70	1.41	(30)	4.74	Crooked (18-41)	0.87	1.28	0.77	(11)	2.38
Waconia (10-59)	1.34	0.87	1.13	(32)	5.90	Crow Wing (18-155)	2.07	0.52	1.43	(9)	3.85
CASS COUNTY						East Twin (18-407)	0.70	0.50	0.62	(10)	2.57
Ada (11-250)	0.65	0.66	0.78	(11)	2.36	Edward (18-305)	1.15	0.71	0.89	(33)	7.13
Agate (11-216)	0.85	0.50	0.67	(10)	3.05	Garden (18-329)	0.78	0.32	0.48	(12)	1.29
Barnum (11-281)	0.99	0.62	0.68	(7)	2.12	Gilbert (18-320)	2.10	0.64	1.13	(11)	4.71
Big Rice (11-73)	2.80	1.90	2.17	(33)	5.00	Gladstone (18-338)	0.84	0.46	0.65	(12)	1.21
Birch (11-412)	0.56	0.79	0.93	(10)	2.00	Goodrich (18-226)	0.47	0.54	0.52	(8)	1.30
Blackwater (11-274)	1.38	0.31	0.57	(6)	3.93	Hamlet (18-70)	1.90	0.88	1.03	(37)	6.70
Child (11-263)	1.24	0.82	0.92	(11)	1.98	Hartley (18-392)	0.52	0.65	0.68	(12)	3.28
Hay (11-199)	0.85	0.64	0.88	(10)	3.32	Horseshoe (18-251)	1.01	0.76	0.69	(12)	2.49
Horseshoe (11-358)	0.95	0.84	0.54	(10)	3.09	Hubert (18-375)	1.03	0.70	0.97	(20)	3.50
Inguadona (11-120)	1.68	1.69	1.43	(9)	2.90	Island (18-183)	1.95	0.94	1.45	(12)	2.98
Laura (11-104)	1.10	1.00	0.72	(15)	1.85	Little Hubert (18-340)	1.61	1.14	0.96	(12)	3.29
Leech (11-203)	1.92	1.73	1.40	(36)	3.35	Little Pelican (18-351)	0.91	0.79	0.68	(12)	1.94
Little Boy (11-167)	1.24	0.48	1.10	(8)	2.50	Lougee (18-342)	1.16	0.67	0.72	(12)	2.40
Long (11-142)	1.50	0.71	0.96	(10)	4.79	Lower Mission (18-243)	0.61	0.42	0.67	(24)	2.20
Lower Trelipe (11-129)	1.46	1.19	1.11	(21)	4.63	Mollie (18-335)	1.21	0.70	0.75	(12)	2.94
Mud (11-100)	5.40	4.20	2.61	(26)	6.70	North Long (18-372)	1.09	0.95	0.90	(30)	2.88
Paquet (11-381)	0.33	1.23	1.08	(8)	2.26	O'Brien (18-227)	0.38	0.31	0.55	(9)	1.89
Portage (11-476)	1.96	0.80	0.96	(10)	4.44	Olander (18-91)	1.37	1.02	1.14	(39)	7.25
Stony (11-371)	0.66	0.44	0.55	(9)	4.11	Ossawinnamakee (18-352)					
Sylvan (11-304)	0.88	0.60	0.84	(19)	3.21		0.72	0.40	0.78	(17)	1.81
Ten Mile (11-413)	0.62	0.47	0.78	(26)	2.72	Pelican (18-308)	0.97	0.56	0.87	(44)	4.51
Vermillion (11-29)	2.46	1.10	1.97	(7)	5.25	Perch (18-304)	0.80	0.62	0.74	(12)	2.86
Winnibigoshish (11-147)	2.44	1.90	2.00	(41)	3.90	Portage (18-50)	0.80	1.51	0.90	(10)	3.11
Woman (11-201)	1.02	0.70	0.83	(11)	1.72	Rabbit (18-93)	0.55	0.35	0.95	(43)	3.24
CHISAGO COUNTY						Roger (18-184)	1.14	0.77	0.81	(13)	2.30
Goose (13-83)	1.70	0.50	1.55	(13)	3.17	Ross (18-165)	1.70	1.36	1.42	(17)	3.05
Green (13-41)	0.72	0.68	1.05	(23)	9.10	Ruth (18-212)	0.30	0.82	0.86	(34)	6.31
North Center (13-32)	0.70	1.10	1.58	(28)	7.26	Shaffer (18-348)	1.16	0.97	0.74	(13)	2.84
Rush (13-69)	1.32	0.91	1.39	(34)	3.28	Sorenson (18-323)	1.25	0.64	0.95	(12)	2.98
Sunrise (13-31)	0.70	0.77	0.96	(13)	13.07	South Long (18-136)	2.20	0.94	1.13	(35)	3.24

Annual Lake Level Fluctuation (feet)

Lake Name	WY99	WY00	WYAv.	# Yrs.	Range	Lake Name	WY99	WY00	WYAv.	# Yrs.	Range
CROW WING COUNTY (cont):						HENNEPIN COUNTY (cont):					
Upper South Long (18-96)	2.14	0.60	1.11	(31)	3.42	Fish (27-118)	1.78	1.94	1.47	(13)	2.87
West Twin (18-409)	0.82	0.71	0.61	(10)	2.28	Harriet (27-16)	0.97	1.32	1.22	(70)	4.57
Whitefish (18-1)	0.85	1.24	1.16	(9)	2.91	Hiawatha (27-18)	2.18	2.41	2.78	(34)	12.00
Young (18-252)	1.14	0.98	0.78	(12)	2.36	Independence (27-176)	1.90	0.86	1.64	(20)	7.81
DAKOTA COUNTY						Indianhead (27-44)	1.12	1.28	1.24	(8)	3.19
Marion (19-26)	1.40	1.94	2.09	(42)	13.22	Langdon (27-182)	1.31	0.84	1.30	(9)	3.38
Orchard (19-31)	3.40	0.58	1.05	(9)	3.58	Long (27-160)	1.72	1.07	1.36	(15)	3.35
Sunfish (19-50)	0.92	0.71	1.00	(10)	3.42	Loring (27-655)	0.95	0.62	0.92	(18)	3.57
DOUGLAS COUNTY						Medicine (27-104)	1.40	1.52	1.56	(28)	5.08
Aaron (21-242)	0.40	0.62	0.77	(7)	2.34	Minnetoga (27-88)	0.70	0.46	0.98	(27)	2.94
Andrew (21-85)	0.64	0.74	0.94	(9)	3.79	Minnetonka (27-133)	1.50	0.87	1.39	(95)	8.73
Chippewa (21-145)	1.54	1.36	1.20	(17)	3.30	Nesbitt Pond (27-1018)	1.72	1.19	1.00	(7)	1.85
Christina (21-375)	1.05	0.54	0.94	(28)	2.97	Nokomis (27-19)	0.56	2.13	2.07	(51)	8.76
Geneva (21-52)	1.11	0.45	0.94	(7)	2.32	Parkers (27-107)	3.63	1.54	2.58	(28)	11.65
Ida (21-123)	0.46	0.76	1.08	(18)	7.94	Powderhorn (27-14)	1.38	3.55	3.10	(16)	10.84
Irene (21-76)	0.68	0.61	0.69	(11)	1.33	Rice (27-116)	1.31	0.64	1.84	(13)	10.88
Latoka (21-106)	0.25	0.20	0.50	(8)	5.98	Sarah (27-191)	2.41	0.60	1.69	(7)	3.38
Le Homme Dieu (21-56)	0.74	0.48	0.94	(10)	1.80	Twin (27-42)	2.21	0.99	1.35	(10)	3.98
Lobster (21-144)	0.75	1.15	1.18	(28)	11.20	Weaver (27-117)	0.66	0.51	0.94	(13)	3.19
Louise (21-94)	2.47	1.56	1.49	(14)	5.71	Wirth (27-37)	0.25	2.60	1.59	(46)	5.86
Maple (21-79)	0.77	0.43	0.76	(7)	2.90	HUBBARD COUNTY					
Mary (21-92)	0.38	0.70	1.32	(10)	5.31	Belle Taine (29-146)	1.80	0.68	1.36	(47)	13.84
Mill (21-180)	1.15	0.36	1.14	(8)	3.37	Big Sand (29-185)	1.39	0.52	0.84	(10)	2.50
Miltona (21-83)	1.28	0.54	1.08	(25)	4.60	Big Stony (29-143)	0.90	0.88	0.69	(7)	1.52
Moon (21-226)	1.40	0.66	1.28	(16)	10.59	Blue (29-184)	0.71	0.85	0.58	(6)	1.07
Moses (21-245)	0.80	0.38	1.52	(16)	13.24	Eagle (29-256)	2.08	1.72	1.55	(10)	2.78
Red Rock (21-291)	1.98	1.30	1.46	(10)	4.21	East Crooked (29-101)	0.89	0.41	0.84	(7)	3.54
Victoria (21-54)	1.45	0.54	1.16	(19)	3.45	Fifth Crow Wing (29-92)	0.68	0.56	0.73	(7)	1.26
Winona (21-81)	0.74	0.38	0.69	(7)	1.66	Fish Hook (29-242)	1.88	1.64	1.12	(10)	2.12
FREEBORN COUNTY						Gilmore (29-188)	0.46	0.32	0.49	(7)	0.89
Albert Lea (24-14)	1.10	2.25	2.09	(19)	5.52	Grace (29-71)	0.49	0.44	0.70	(10)	2.75
Bear (24-28)	0.95	1.74	1.18	(17)	5.58	Island (29-254)	1.68	2.34	2.15	(10)	3.92
Fountain (24-18)	1.32	4.14	1.93	(6)	5.27	Little Sand (29-150)	0.48	0.52	0.71	(27)	3.08
Geneva (24-15)	3.95	3.18	1.50	(8)	4.58	Long (29-161)	0.53	0.67	0.51	(14)	1.18
Lower Twin (24-27)	0.80	1.48	1.14	(8)	2.66	Middle Crooked (29-101)	0.88	0.41	0.69	(6)	2.03
Upper Twin (24-31)	0.90	1.10	1.33	(8)	3.06	Palmer (29-87)	1.39	0.70	0.84	(10)	2.91
GRANT COUNTY						Plantagenet (29-156)	2.32	1.02	1.40	(19)	3.47
Elk (26-40)	0.64	0.78	0.75	(6)	1.76	Stocking (29-172)	0.56	0.48	0.51	(6)	1.08
Pelican (26-2)	0.58	0.41	1.00	(12)	7.64	West Crooked (29-101)	1.37	0.77	0.68	(7)	2.01
HENNEPIN COUNTY						ISANTI COUNTY					
Calhoun (27-31)	1.26	1.78	1.86	(73)	6.36	Green (30-136)	1.60	0.60	1.42	(18)	7.04
Cedar Island (27-119)	1.04	0.74	1.13	(14)	6.50	Skogman (30-22)	0.72	1.02	1.22	(22)	4.29
Eagle/Pike (27-111)	0.79	0.44	1.01	(14)	3.27	Spectacle (30-135)	0.38	1.10	0.65	(8)	2.68
Edward (27-121)	0.63	0.64	0.99	(13)	3.69	Typo (30-9)	0.76	0.52	1.54	(12)	3.57

Annual Lake Level Fluctuation (feet)

Lake Name	WY99	WY00	WYAv.	# Yrs.	Range	Lake Name	WY99	WY00	WYAv.	# Yrs.	Range
ITASCA COUNTY						JACKSON COUNTY					
Ball Club (31-812)	2.34	5.84	3.13	(10)	6.93	Fish (32-18)	0.75	0.67	1.26	(12)	7.45
Balsam (31-259)	2.16	0.66	1.13	(18)	3.26	Heron (Duck) (32-57)	1.40	1.28	1.51	(10)	5.58
Bass (31-576)	1.24	0.60	0.82	(21)	2.47	KANABEC COUNTY					
Beatrice (31-58)	1.52	0.90	0.85	(9)	1.92	Fish (33-36)	2.84	0.82	1.82	(9)	4.82
Bello (31-726)	1.56	0.39	0.76	(6)	1.87	Knife (33-28)	1.80	0.30	2.12	(33)	11.99
Bowstring (31-813)	3.16	3.17	1.62	(22)	4.40	KANDIYOHI COUNTY					
Buck (31-69)	1.06	0.46	0.52	(16)	1.33	Andrew (34-206)	0.91	0.84	1.48	(33)	13.60
Burrows (31-413)	1.15	0.80	0.71	(11)	2.18	Calhoun (34-62)	1.22	0.80	1.35	(29)	6.83
Caribou (31-620)	0.50	0.60	0.60	(12)	2.28	Diamond (34-44)	0.89	0.42	0.99	(19)	3.95
Carlson (31-366)	1.45	1.22	0.85	(6)	1.62	Eagle (34-171)	0.41	0.74	1.15	(31)	5.22
Crooked (31-193)	9.40	4.28	6.02	(8)	9.40	Elizabeth (34-22)	1.05	0.91	1.13	(20)	3.11
Deer (31-719)	0.28	0.70	0.52	(7)	1.20	Elkhorn (34-119)	0.33	0.54	0.88	(19)	4.11
Dixon (31-921)	3.78	2.06	2.78	(7)	4.41	Florida (34-217)	0.74	0.94	1.37	(20)	5.22
Dora (31-882)	3.49	3.14	1.98	(20)	4.35	Florida Slough (34-204)	0.18	0.32	1.41	(14)	4.95
Forest (31-374)	0.68	0.22	0.69	(35)	2.94	Foot (34-181)	0.66	0.92	1.18	(18)	3.93
Grave (31-624)	1.10	0.27	0.58	(8)	1.27	George (34-142)	0.52	0.92	1.02	(25)	3.88
Hale (31-361)	0.46	1.04	1.03	(8)	2.36	Green (34-79)	1.34	0.82	1.53	(45)	4.91
Hale (31-373)	1.15	0.49	0.83	(42)	3.16	Henderson (34-116)	0.81	0.92	0.91	(15)	5.24
Jessie (31-786)	3.44	0.55	1.16	(11)	3.44	Long (34-66)	0.45	0.71	0.50	(18)	1.61
Johnson (31-586)	1.33	1.02	0.91	(11)	3.01	Long (34-192)	0.72	0.80	1.13	(19)	5.07
Lawrence (31-231)	10.98	2.64	4.74	(6)	10.98	Mud (34-158)	0.61	0.94	1.30	(33)	3.64
Little Bowstring (31-758)						Nest (34-154)	1.21	1.58	1.31	(32)	5.20
	1.59	1.00	1.17	(7)	2.08	Norway (34-251)	0.91	0.78	1.24	(18)	4.29
Little Long (31-266)	1.70	0.35	1.01	(9)	2.32	Skataas (34-196)	0.87	0.78	1.19	(13)	4.81
Little Long (31-613)	1.45	1.07	0.76	(10)	5.68	Sunburg (34-359)	0.41	0.86	1.02	(6)	3.00
Little Winnibigoshish (31-850)						Swenson (34-321)	0.53	1.02	1.14	(13)	5.63
	6.05	4.55	5.42	(12)	7.92	Unnamed (Golden Pond) (34-355)					
Long (31-570)	1.19	0.82	0.92	(35)	3.39		1.03	1.44	0.97	(6)	2.54
Loon (31-571)	1.59	0.88	1.05	(36)	3.62	Wagonga (34-169)	0.68	0.80	1.49	(16)	4.40
McGuire (31-78)	2.60	2.29	2.64	(9)	4.80	LAKE COUNTY					
Moose (31-722)	1.65	0.44	0.76	(12)	1.77	Farm (38-779)	0.44	0.28	0.44	(8)	0.78
North Star (31-653)	1.10	0.40	0.61	(12)	1.40	Garden (38-782)	0.63	0.44	1.31	(9)	3.67
Owen (31-292)	1.06	0.63	0.72	(11)	2.28	LE SUEUR COUNTY					
Pigeon Dam (31-894)	1.65	1.50	1.25	(13)	3.30	Emily (40-124)	1.28	1.00	1.35	(23)	7.34
Pokegama (31-532)	4.51	3.28	3.06	(47)	8.89	Frances (40-57)	1.07	0.78	0.85	(9)	13.14
Ruby (31-422)	0.80	0.65	0.59	(11)	2.21	Volney (40-33)	1.24	0.98	1.28	(10)	3.60
Sand (31-438)	1.06	0.80	0.82	(9)	3.14	Washington (40-117)	1.82	1.26	1.48	(22)	5.35
Sand (31-826)	3.56	3.56	1.65	(18)	4.40	West Jefferson (40-92)	1.53	1.15	1.39	(26)	6.92
Shallow (31-84)	0.41	0.53	0.61	(9)	1.12	MCLEOD COUNTY					
Shoal (31-141)	1.20	0.58	1.00	(7)	1.85	Marion (43-84)	0.72	0.90	1.02	(11)	3.05
Siseebakwet (31-554)	0.82	0.48	0.74	(52)	2.19	Winsted (43-12)	1.97	0.44	1.58	(10)	3.31
Smith (31-650)	1.67	1.12	0.80	(11)	3.17	MAHNOMEN COUNTY					
Snaptail (31-255)	1.59	0.84	1.01	(9)	1.91	Tulaby (44-3)	0.68	0.80	1.10	(8)	2.44
South Sturgeon (31-3)	2.51	1.37	1.36	(7)	3.40						
Spider (31-538)	1.32	0.82	0.79	(11)	2.40						
Split Hand (31-353)	2.12	1.98	1.55	(19)	3.65						
Swan (31-67)	0.86	0.68	1.51	(52)	4.65						
Trout (31-216)	1.56	1.10	1.16	(40)	6.09						
White Swan (31-260)	0.80	0.50	0.58	(11)	2.25						

Annual Lake Level Fluctuation (feet)

Lake Name	WY99	WY00	WYAv.	# Yrs.	Range	Lake Name	WY99	WY00	WYAv.	# Yrs.	Range
MARTIN COUNTY						OTTER TAIL COUNTY (cont):					
Amber (46-34)	2.20	1.38	1.40	(8)	3.89	East Leaf (56-116)	2.52	1.48	2.10	(6)	3.22
Budd (46-30)	2.56	2.16	1.48	(7)	5.32	East Lost (56-378)	2.01	1.38	2.00	(8)	3.38
George (46-24)	1.82	1.32	1.31	(8)	8.84	Jewett (56-877)	0.70	0.66	0.64	(6)	3.37
MEEKER COUNTY						Lida (56-747)	0.52	0.41	0.89	(7)	2.10
Belle (47-49)	0.80	1.26	1.19	(9)	11.84	Little McDonald (56-328)	1.04	1.02	1.05	(9)	4.26
Clear (47-95)	0.90	0.82	1.27	(11)	4.21	Little Pine (56-142)	1.09	0.64	1.07	(36)	3.30
Francis (47-2)	0.86	0.88	0.87	(18)	4.31	Lizzie (56-760)	0.58	1.08	1.19	(53)	4.56
Jennie (47-15)	0.75	0.92	0.91	(9)	9.04	Long (56-388)	0.86	0.66	0.77	(17)	6.20
Long (47-26)	0.65	0.55	0.50	(6)	1.08	Middle Leaf (56-116)	1.79	1.30	1.83	(6)	3.61
Manuella (47-50)	0.85	0.69	1.40	(12)	4.47	Otter Tail (56-242)	1.95	1.00	1.43	(71)	4.63
Minnie-Belle (47-119)	0.71	1.06	1.30	(12)	5.92	Pelican (56-786)	0.79	0.64	1.29	(27)	4.94
Ripley (47-134)	0.85	0.80	0.91	(8)	9.61	Pickerel (56-204)	1.65	0.94	1.16	(7)	2.66
Stella (47-68)	0.70	0.90	0.99	(12)	2.48	Pickerel (56-475)	0.51	0.54	0.69	(22)	3.03
Thompson (47-159)	0.86	0.90	1.35	(11)	6.61	Prairie (56-915)	1.06	0.34	0.82	(20)	4.70
Washington (47-46)	0.52	0.66	0.65	(12)	2.03	Rush (56-141)	1.40	1.50	1.55	(61)	3.87
MILLE LACS COUNTY						Rush (TW) (56-141)	1.88	1.10	1.83	(16)	5.08
Mille Lacs (48-2)	1.70	1.01	1.33	(70)	7.69	Star (56-385)	0.95	0.76	1.04	(24)	3.79
Onamia (48-9)	1.72	0.92	1.63	(35)	6.12	Swan (56-781)	0.91	0.79	1.02	(9)	3.63
MORRISON COUNTY						Twenty-one (56-728)	1.12	0.58	0.95	(6)	3.73
Alexander (49-79)	1.20	0.89	0.99	(19)	3.82	Wall (56-658)	0.50	0.32	0.39	(9)	0.75
Round (49-56)	1.07	0.62	0.78	(6)	1.46	West Battle (56-239)	0.35	0.70	1.07	(28)	7.22
Shamineau (49-127)	0.81	0.77	0.83	(7)	4.51	West Lost (56-481)	0.92	1.67	1.76	(6)	4.61
Sullivan (49-16)	2.00	0.74	1.35	(22)	3.79	West McDonald (56-386)	1.64	1.32	1.03	(7)	2.00
MOWER COUNTY						PINE COUNTY					
East Side (50-2)	0.80	1.56	0.96	(7)	1.73	Grindstone (58-123)	0.50	1.02	1.06	(24)	2.72
MURRAY COUNTY						Pokegama (58-142)	3.70	1.76	3.71	(21)	8.20
Currant (51-82)	1.50	0.65	1.36	(7)	4.56	Sand (58-81)	1.81	1.17	1.41	(26)	5.99
Sarah (51-63)	0.46	0.64	1.12	(6)	4.25	Sturgeon (58-67)	0.60	0.43	0.92	(25)	4.04
Shetek (51-46)	1.46	1.32	2.00	(51)	7.67	Upper Pine (58-130)	0.65	0.46	0.63	(8)	1.18
NOBLES COUNTY						POLK COUNTY					
Indian (53-7)	1.42	1.80	1.72	(13)	4.48	Breeze (60-144)	1.37	0.85	0.95	(8)	3.65
Ocheda (53-24)	1.59	1.51	1.38	(33)	5.42	Cable (60-293)	0.56	0.86	0.88	(9)	7.90
OLMSTED COUNTY						Cameron (60-189)	0.54	0.58	0.73	(8)	3.08
Shady (55-5)	0.74	1.88	2.10	(7)	6.30	Cross (60-27)	1.59	0.94	1.45	(12)	3.46
OTTER TAIL COUNTY						Hill River (60-142)	1.02	0.46	0.99	(9)	1.94
Beers (56-724)	1.15	0.58	1.01	(7)	3.78	Maple (60-305)	1.17	0.90	1.16	(24)	11.22
Big McDonald (56-386)	0.85	1.00	0.93	(6)	1.60	Poplar (60-6)	1.69	1.19	1.66	(9)	3.30
Big McDonald, West (56-386)	1.86	0.80	1.05	(7)	8.66	Sarah (60-202)	3.46	3.57	2.93	(12)	14.89
Big Pine (56-130)	1.19	1.13	1.53	(51)	4.73	Spring (60-12)	0.64	0.82	0.86	(9)	2.35
Blanche (56-240)	0.60	0.47	0.56	(8)	1.56	Turtle (60-32)	1.77	0.90	1.31	(13)	4.18
POPE COUNTY						Union (60-217)	2.07	3.11	1.53	(15)	8.55
						Gilchrist (61-72)	2.38	1.30	2.15	(10)	4.44
						Leven (61-66)	2.02	1.00	1.58	(7)	2.86
						Linka (61-37)	0.60	0.76	0.86	(7)	1.61
						Marlu (61-60)	0.92	0.60	0.95	(7)	1.75

May 2001

Annual Lake Level Fluctuation (feet)

Lake Name	WY99	WY00	WYAv.	# Yrs.	Range	Lake Name	WY99	WY00	WYAv.	# Yrs.	Range
POPE COUNTY (cont):						ST. LOUIS COUNTY (cont):					
Minnewaska (61-130)	0.66	1.58	1.17	(56)	10.01	Eagles Nest #1 (69-285)	2.00	1.24	0.81	(8)	3.10
Villard (61-67)	1.73	0.80	1.57	(7)	3.33	Eagles Nest #2 (69-285)	2.00	1.24	0.81	(8)	3.10
RAMSEY COUNTY						ST. LOUIS COUNTY (cont):					
Bald Eagle (62-2)	0.88	0.59	1.27	(78)	6.88	Eagles Nest #3 (69-285)	1.18	0.89	0.82	(9)	1.41
Beaver (62-16)	0.98	1.28	1.95	(46)	7.10	Eagles Nest #4 (69-218)	0.35	0.20	0.42	(8)	0.97
Bennett (62-48)	1.83	3.17	2.85	(14)	6.60	Ely (69-660)	0.68	1.32	0.84	(47)	2.80
RAMSEY COUNTY						ST. LOUIS COUNTY (cont):					
Birch (62-24)	0.87	1.23	1.32	(71)	7.13	Island Lake Reservoir (69-372)	1.70	10.26	18.87	(25)	32.25
Como (62-55)	1.14	2.40	1.67	(23)	4.19	Jacobs (69-231)	1.66	1.04	0.77	(10)	2.31
Gervais (62-7)	1.08	1.40	2.15	(77)	7.20	Janette (69-887)	0.73	0.48	0.66	(8)	1.49
Grass (62-74)	3.86	2.96	3.26	(19)	9.63	Little Stone (69-28)	0.30	0.70	0.77	(8)	2.99
Island (62-75)	0.96	0.73	1.40	(55)	9.32	Long (69-509)	0.70	1.54	0.98	(11)	2.24
Johanna (62-78)	0.96	1.62	1.98	(78)	13.91	Long (69-653)	1.02	0.61	0.78	(9)	1.47
Josephine (62-57)	0.78	0.90	1.17	(77)	4.20	Maple Leaf (69-700)	0.67	0.52	0.81	(10)	1.64
Long (62-67)	1.54	1.48	1.72	(77)	5.20	ST. LOUIS COUNTY					
McCarron (62-54)	0.74	0.89	1.15	(77)	4.45	Merrill (69-891)	0.58	0.53	0.67	(8)	1.38
Owasso (62-56)	1.12	0.98	1.15	(77)	6.83	Nichols (69-627)	0.47	0.80	0.66	(12)	1.71
Phalen (62-13)	1.91	3.20	3.49	(77)	12.32	Perch (69-932)	0.58	0.75	0.55	(10)	2.23
Pike (62-69)	0.94	1.75	1.38	(32)	4.57	Prairie (69-848)	1.13	1.22	1.23	(17)	2.85
Round (62-9)	1.84	2.32	2.00	(67)	11.67	Sand (69-736)	0.68	0.42	0.66	(9)	1.55
Silver (East) (62-1)	1.05	0.99	1.71	(76)	10.05	Schubert (69-546)	1.00	0.41	1.00	(6)	2.13
Silver (West) (62-83)	1.01	1.43	1.72	(67)	13.25	St. Mary's (69-651)	2.15	0.92	1.22	(43)	4.57
Snail (62-73)	1.39	1.42	1.60	(77)	9.96	Stone (69-27)	0.81	0.62	0.80	(11)	1.64
Turtle (62-61)	0.72	0.88	0.98	(78)	5.68	Stone (69-686)	2.36	1.28	1.17	(8)	3.01
Valentine (62-71)	1.11	1.75	1.82	(76)	6.95	Sturgeon (69-939)	2.60	1.57	1.52	(17)	3.00
Wabasso (62-82)	1.33	1.10	1.40	(63)	5.53	Vermilion (69-378)	1.85	0.60	1.61	(50)	3.15
Wakefield (62-11)	1.18	1.71	2.30	(48)	10.53	Wild Rice (69-371)	1.38	1.35	1.64	(6)	2.81
Willow (62-40)	0.62	0.92	1.00	(14)	2.01	SCOTT COUNTY					
RENVILLE COUNTY						SCOTT COUNTY (cont):					
Allie (65-6)	1.05	0.94	1.25	(11)	8.28	Cedar (70-91)	1.00	0.56	0.92	(7)	2.42
Preston (65-2)	0.86	0.78	1.28	(8)	3.70	O'Dowd (70-95)	1.04	1.08	1.12	(8)	5.08
RICE COUNTY						SCOTT COUNTY (cont):					
Cannon (66-8)	1.32	0.40	1.04	(7)	6.16	Spring (70-54)	2.16	1.44	1.58	(10)	2.86
Cedar (66-52)	0.91	0.96	1.07	(13)	2.44	Upper Prior (70-72)	2.74	1.27	2.31	(29)	12.20
Circle (66-27)	0.73	1.98	1.64	(18)	8.92	SHERBURNE COUNTY					
Fox (66-29)	0.85	2.00	1.47	(19)	5.05	Elk (71-141)	2.50	1.20	1.57	(6)	4.87
French (66-38)	1.32	1.42	1.10	(10)	5.05	Long (71-159)	0.63	1.86	1.15	(9)	9.04
Rice (66-48)	0.78	0.83	1.58	(15)	3.72	Rush (71-147)	1.49	0.52	1.54	(11)	5.37
ST. LOUIS COUNTY						STEARNS COUNTY					
Beaver (69-501)	0.99	0.56	0.83	(12)	2.88	Big (73-159)	1.16	0.76	1.29	(11)	5.20
Big Rice (69-669)	1.71	1.22	1.11	(11)	2.43	Big Fish (73-106)	1.25	0.84	0.98	(24)	4.06
Birch (69-3)	1.66	1.58	3.09	(18)	5.57	Big Watab (73-102)	0.82	0.60	0.73	(16)	1.90
Burntside (69-118)	1.12	0.70	0.98	(10)	4.76	Carnelian (73-38)	0.70	0.92	1.53	(9)	10.56
Colby (69-249)	3.34	2.79	2.53	(35)	7.02	Eden (73-150)	2.68	0.82	2.41	(13)	10.38
Comstock (69-412)	2.04	1.58	1.56	(7)	2.47	Grand (73-55)	0.82	0.82	1.06	(20)	3.21
						Horseshoe (73-157)	2.10	0.80	1.71	(15)	5.28
						Koronis (73-200)	1.72	0.81	2.05	(20)	6.00
						Long (73-4)	1.45	1.36	1.24	(8)	3.38
						Pearl (73-37)	0.46	0.32	0.69	(15)	3.70
						Rice (73-196)	2.79	1.33	3.03	(15)	6.94

Annual Lake Level Fluctuation (feet)

Lake Name	WY99	WY00	WYAv.	# Yrs.	Range	Lake Name	WY99	WY00	WYAv.	# Yrs.	Range
STEVENS COUNTY						WASHINGTON COUNTY (cont):					
Long (75-24)	0.60	0.71	1.34	(21)	7.48	Eagle Point (82-109)	1.28	0.81	2.16	(26)	7.40
Page (75-19)	0.88	1.01	1.43	(21)	8.08	Egg (82-147)	0.34	0.26	0.79	(11)	3.41
Perkins (75-75)	0.26	1.13	1.27	(18)	4.86	Elmo (82-106)	0.64	0.43	1.23	(26)	9.58
SWIFT COUNTY											
Camp (76-72)	1.44	2.28	1.78	(6)	4.42	Forest (82-159)	0.38	0.62	0.74	(26)	2.78
Oliver (76-146)	1.41	4.05	1.32	(6)	18.91	Goose (82-59)	0.92	1.75	1.38	(7)	6.00
TODD COUNTY											
Beauty (77-35)	0.84	0.73	0.75	(7)	2.40	Halfbreed (82-80)	0.86	0.72	0.95	(11)	2.92
Big (77-63)	1.22	0.72	0.89	(8)	1.61	Horseshoe (82-74)	0.39	0.36	1.72	(23)	15.74
Big Birch (77-84)	0.92	0.90	1.01	(24)	3.03	Jane (82-104)	0.54	0.27	1.63	(33)	8.99
Big Birch,HW (77-84)	0.80	0.68	0.68	(10)	1.48	Lily (82-23)	1.53	2.13	1.43	(6)	11.98
Fairy (77-154)	0.83	1.64	1.22	(12)	9.91	Little Carnelian(82-14)	1.49	1.72	3.75	(9)	35.17
Little Birch (77-89)	0.75	0.48	1.01	(21)	3.39	Long (82-118)	3.64	1.78	3.25	(27)	10.34
Long (77-27)	0.70	0.40	0.73	(8)	1.80	McDonald (82-10)	0.62	0.96	1.03	(7)	3.92
Maple (77-181)	1.44	0.60	1.29	(12)	2.61	Mud (82-26)	0.50	0.35	0.67	(6)	1.80
Mound (77-7)	0.39	0.54	0.58	(8)	0.94	Oneka (82-140)	0.27	1.19	0.95	(22)	4.13
Osakis (77-215)	0.42	0.70	1.51	(40)	7.39	Square (82-46)	0.47	0.22	0.72	(24)	5.34
Sauk (77-150)	1.88	0.72	1.74	(18)	5.20	Sunfish (82-107)	0.62	1.43	1.59	(26)	18.15
WADENA COUNTY											
Hazel (80-5)	0.94	1.01	0.92	(21)	3.33	Sunnybrook (82-133)	1.62	1.24	1.90	(8)	3.40
Stocking (80-37)	0.50	0.47	0.55	(13)	1.52	Sunset (82-153)	1.28	1.11	1.13	(7)	2.70
WASHINGTON COUNTY											
Bass (82-35)	2.61	1.42	1.48	(6)	3.75	Tanners (82-115)	0.66	1.25	1.27	(10)	2.80
Battle Creek (82-91)	1.46	0.85	1.36	(11)	3.02	Turtle (82-36)	0.76	0.64	1.04	(7)	3.41
Big Carnelian (82-49)	0.66	0.47	1.28	(24)	14.26	West Boot (82-44)	0.59	0.53	0.73	(6)	2.78
Big Marine (82-52)	1.10	0.61	1.00	(27)	7.10	White Bear (82-167)	0.94	1.24	1.17	(84)	7.07
Bone (82-54)	1.20	0.78	1.25	(20)	4.27	WATONWAN COUNTY					
Carver (82-166)	1.47	0.75	1.43	(10)	3.21	Fedji (83-21)	0.52	2.28	1.04	(10)	4.19
Clear (82-163)	1.18	0.71	1.14	(27)	3.54	WRIGHT COUNTY					
Cloverdale (82-9)	1.52	1.42	2.21	(7)	9.21	Augusta (86-284)	1.06	0.56	0.99	(7)	2.85
DeMontreville (82-101)	1.00	0.73	1.47	(33)	6.40	Birch (86-66)	1.01	1.34	1.15	(8)	6.19
Downs (82-110)	1.21	1.81	2.52	(19)	7.73	Charlotte (86-11)	0.50	1.47	1.39	(16)	8.68
						Collinwood (86-293)					
						0.90 0.90 0.93 (6) 3.88					
						Indian (86-223)					
						0.52 1.12 1.49 (15) 9.76					
						Maple (86-134)					
						1.44 1.22 1.20 (15) 5.34					
						Pelican (86-31)					
						0.69 0.47 0.57 (6) 8.00					
						Sugar (86-233)					
						1.20 0.86 0.77 (24) 4.34					
						Sylvia (86-289)					
						0.96 0.32 0.87 (22) 3.65					