05080000 RED LAKE RIVER AT FISHER, MN

LOCATION.--Lat 47°48'01", long 96°48'31", in SW$^1/_4$NE$^1/_4$ sec. 21, T.150 N., R.48 W., Polk County, Hydrologic Unit 09020303, on left bank 10 ft upstream from bridge on county highway, 0.3 mile west of Fisher and at river mile 27.6.

DRAINAGE AREA.--5,678 mi^2.

PERIOD OF RECORD.--Mar. to Sep. 1999 (gage heights and maximum discharge only), Oct. 1, 1999 to Sep. 30, 2000.

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft above sea level (levels by Minnesota Department of Transportation).

REMARKS.-- Runoff from 1,950 mi^2 of Red Lake River basin above Lower Red Lake outlet is completely comtrolled by dam at outlet of Lower Red Lake. Flow partially affected by occasional runoff of Thief and Mud Lakes in Thief River basin.

EXTREMES FOR PERIOD OF RECORD.-- Maximum discharge, 18,000 ft^3/s (approximately), gage-height 35.92 ft, Mar. 31, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3400	1720	e1600	e1200	e1000	e2600	1970	2040	1280	4170	1150	750
2	3110	1740	e1850	e1200	e1000	e2600	1900	2060	1270	3730	1130	747
3	2810	1720	e1840	e1180	e1000	e2600	1950	2010	1240	3250	1070	769
4	2670	1750	e1800	e1180	e1000	e2600	2120	2000	1160	2700	1070	876
5	2540	1800	e1600	e1150	e1000	e2550	2400	1930	1170	2350	1020	947
6	2440	1820	e1400	e1150	e980	e2500	2440	1860	1160	2290	1010	964
7	2260	1840	e1300	e1150	e980	e2450	2510	1870	1150	2260	1030	980
8	2280	1820	e1350	e1150	e980	e2450	2580	1660	1100	3270	1050	1000
9	2410	1850	e1350	e1150	e970	e2400	2580	1570	1100	5500	1050	1040
10	2540	2110	e1400	e1150	e970	e2400	2520	1540	1070	5870	1010	1070
11	2550	2070	e1500	e1130	e960	e2400	2470	1550	1020	5130	986	975
12	2550	1850	e1400	e1130	e960	e2350	2390	1540	1050	4040	939	906
13	2500	1880	e1320	e1130	e950	e2300	2370	1500	831	3110	910	795
14	2440	1950	e1300	e1100	e950	e2250	2350	1550	871	2520	948	745
15	2400	1970	e1250	e1100	e940	e2200	2330	1540	1010	2230	951	723
16	2340	1990	e1200	e1050	e940	e2200	2370	1530	1430	2110	1040	668
17	2280	2020	e1160	e1050	e940	e2150	2370	1540	1580	2000	1080	625
18	2200	2020	e1130	e1050	e940	e2150	2470	1480	1600	1900	1180	622
19	2180	2030	e1100	e1050	e940	e2100	2420	1430	1400	1850	1150	606
20	2080	2050	e1050	e1050	e940	e2100	2280	1410	1580	1860	1140	602
21	1940	2020	e1050	e1030	e940	e2050	2260	1390	3320	1740	1110	589
22	1950	2070	e1050	e1030	e960	e2000	2230	1340	6120	1670	1050	600
23	1910	2100	e1150	e1030	e980	e1950	2160	1320	7350	1600	1030	645
24	1940	2040	e1200	e1030	e1000	e1900	2080	1320	7550	1530	1040	851
25	1850	2130	e1250	e1020	e1050	1940	2130	1330	7180	1430	1030	952
26	1870	2040	e1250	e1020	e1200	2270	2080	1310	6600	1390	943	1160
27	1770	2070	e1250	e1020	e1600	2500	2030	1310	5950	1400	852	1200
28	1710	2080	e1250	e1010	e2400	2360	2010	1350	5410	1360	847	1150
29	1690	1980	e1250	e1010	e2500	2210	2020	1310	4980	1330	824	1120
30	1730	1790	e1230	e1010	---	2090	2010	1330	4580	1260	787	1050
31	1760	---	e1200	e1000	---	2050	---	1300	---	1220	761	---
TOTAL	70100	58320	41030	33710	31970	70670	67800	48220	83112	78070	31188	25727
MEAN	2261	1944	1324	1087	1102	2280	2260	1555	2770	2518	1006	858
MAX	3400	2130	1850	1200	2500	2600	2580	2060	7550	5870	1180	1200
MIN	1690	1720	1050	1000	940	1900	1900	1300	831	1220	761	589
AC-FT	139000	115700	81380	66860	63410	140200	134500	95640	164900	154900	61860	51030

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2261	1944	1324	1087	1102	2280	2260	1555	2770	2518	1006	858
MAX	2261	1944	1324	1087	1102	2280	2260	1555	2770	2518	1006	858
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
MIN	2261	1944	1324	1087	1102	2280	2260	1555	2770	2518	1006	858
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000

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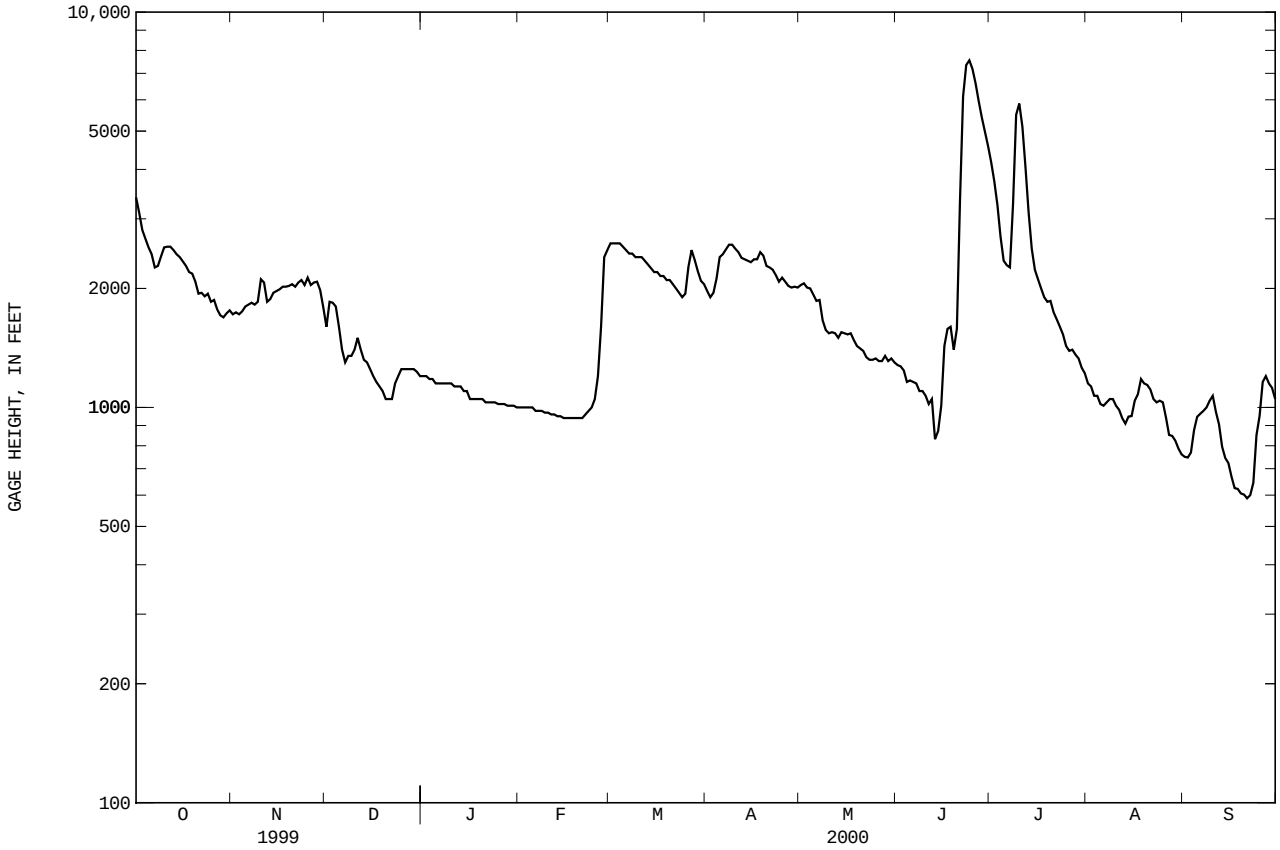
SUMMARY STATISTICS	FOR 2000 WATER YEAR	
ANNUAL TOTAL	639917	
ANNUAL MEAN	1748	
HIGHEST DAILY MEAN	7550	Jun 24
LOWEST DAILY MEAN	589	Sep 21
ANNUAL SEVEN-DAY MINIMUM	613	Sep 17
INSTANTANEOUS PEAK FLOW	7600	Jun 24
INSTANTANEOUS PEAK STAGE	26.05	Jun 24
ANNUAL RUNOFF (AC-FT)	1269000	
10 PERCENT EXCEEDS	2520	
50 PERCENT EXCEEDS	1520	
90 PERCENT EXCEEDS	949	

e Estimated.



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
SEP											
11...	1340	917	415	8.4	17.9	50	737	8.6	94	101	44