

MINNESOTA RIVER BASIN--Continued

05301000 MINNESOTA RIVER NEAR LAC QUI PARLE, MN

LOCATION.--Lat 45°01'17", long 95°52'05", in NW¹/₄NE¹/₄ sec.24, T.118 N., R.42 W., Chippewa County, Hydrologic Unit 07020004, on left bank 200 ft downstream from highway bridge and dam, 2.4 mi northeast of city of Lac Qui Parle, and 3.5 mi west of city of Watson.

DRAINAGE AREA.--4050 mi² (approximately).

PERIOD OF RECORD.--October 1942 to September 1994, October 1998 to present.

REVISED RECORDS.--WDR MN-91-2; 1979

GAGE.--Water-stage recorder. Datum of gage is 900.00 ft above sea level (NGVD or 1929, levels by U.S. Army Corps of Engineers). Prior to Nov. 10, 1944, at datum 0.20 ft. lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Part of flow from 2,050 mi², of Chippewa River basin at most times diverted into Minnesota River above station. Some regulation by Big Stone Lake since Apr. 17, 1937, Lac qui Parle since Jan. 1938, Marsh Lake since Nov. 1, 1939, and Odessa Dam since May 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 1997 reached a discharge of approximately 43,000 ft³/s, combination of measured flow through dam and indirect computation of flow over dam; peak stage occurred Apr. 7, 1997 (from Corps of Engineers).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	306	291	107	e216	258	539	12500	2790	3420	1010	236
2	24	421	293	106	e217	304	650	11600	2770	3110	916	235
3	25	418	294	104	e218	337	895	10800	2700	2610	906	231
4	24	384	e250	114	219	367	1100	10200	2610	2320	906	233
5	23	372	e225	132	212	360	1510	9590	2510	2370	904	233
6	24	378	e190	148	195	361	2330	9120	2480	2480	844	211
7	23	424	186	147	196	353	3220	8830	2470	2460	748	203
8	24	433	178	148	194	345	3840	8290	2480	2400	590	228
9	24	459	164	159	193	355	5780	7820	2500	2430	519	233
10	24	355	164	164	198	344	10600	7480	2550	2480	483	203
11	24	345	149	163	198	348	22600	7060	2520	2450	432	176
12	23	348	134	161	195	345	28200	6560	2540	2490	423	176
13	18	393	131	162	194	356	29500	6110	2860	2450	426	176
14	15	360	131	160	181	374	29800	5760	3700	2380	482	178
15	16	344	131	158	153	359	29000	5850	4470	2290	489	180
16	20	260	127	160	135	323	27000	5400	4320	2110	457	179
17	23	195	129	163	138	308	23000	4680	4210	1950	458	179
18	23	193	127	159	139	313	20600	4380	4320	1930	454	180
19	23	e195	130	163	135	311	18500	4140	4250	1830	459	164
20	23	e200	128	164	135	309	17700	4040	4110	1650	460	143
21	24	202	125	166	139	310	17200	3760	4110	1560	391	124
22	24	196	131	153	135	339	15400	3050	3930	1540	303	125
23	24	196	129	141	137	392	17100	2520	3380	1430	303	126
24	24	198	129	141	136	391	16700	2480	3080	1220	262	126
25	24	199	131	143	133	390	17200	2590	3600	1140	226	157
26	28	202	121	139	169	393	17700	2620	4200	1110	227	186
27	36	258	107	142	217	410	16800	2670	3810	1060	225	186
28	23	299	106	142	234	429	15300	2740	3710	1060	228	187
29	24	293	104	139	---	465	14100	2760	3620	1060	232	187
30	62	293	104	166	---	482	13600	2770	3540	1060	234	153
31	136	---	105	211	---	508	---	2770	---	1060	234	---
TOTAL	875	9119	4844	4625	4961	11239	437464	180940	100140	60910	15231	5534
MEAN	28.2	304	156	149	177	363	14580	5837	3338	1965	491	184
MAX	136	459	294	211	234	508	29800	12500	4470	3420	1010	236
MIN	15	193	104	104	133	258	539	2480	2470	1060	225	124
AC-FT	1740	18090	9610	9170	9840	22290	867700	358900	198600	120800	30210	10980
CFSM	.01	.08	.04	.04	.04	.09	3.60	1.44	.82	.49	.12	.05
IN.	.01	.08	.04	.04	.05	.10	4.02	1.66	.92	.56	.14	.05

05301000 MINNESOTA RIVER NEAR LAC QUI PARLE, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	277	287	227	154	187	848	2766	1451	1178	991	533	269
MAX	2924	2327	1204	574	644	4599	14580	5837	4229	7024	6012	2402
(WY)	1987	1985	1985	1987	1999	1994	2001	2001	1984	1993	1993	1986
MIN	4.16	.46	.17	.19	.094	46.5	151	122	29.5	14.7	11.8	5.59
(WY)	1977	1977	1977	1977	1977	1956	1961	1959	1988	1988	1974	1967

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1943 - 2001

ANNUAL TOTAL		135737		835882								
ANNUAL MEAN		371		2290	736							
HIGHEST ANNUAL MEAN								2507				1986
LOWEST ANNUAL MEAN								75.7				1959
HIGHEST DAILY MEAN			1440	Mar 7	29800	Apr 14	29800	Apr 14	2001			
LOWEST DAILY MEAN			15	Oct 14	15	Oct 14	.00a	Oct 19	1951			
ANNUAL SEVEN-DAY MINIMUM			20	Oct 12	20	Oct 12	.00	Oct 19	1951			
MAXIMUM PEAK FLOW					30100	Apr 14	30100	Apr 14	2001			
MAXIMUM PEAK STAGE					40.05	Apr 14	40.05	Apr 14	2001			
INSTANTANEOUS LOW FLOW					13b	Oct 13	.00a	Oct 19	1951			
ANNUAL RUNOFF (AC-FT)		269200		165800			553500					
ANNUAL RUNOFF (CFM)		.092		.57	.19							
ANNUAL RUNOFF (INCHES)		1.25		7.68	2.47							
10 PERCENT EXCEEDS		872		5770			1840					
50 PERCENT EXCEEDS		248		311			225					
90 PERCENT EXCEEDS		29		107			27					

a Many days, several years.
 b Result of regulation.
 e Estimated.

