

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 (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 to poor. Part of flow from 2,050 mi², of Chippewa River basin at times diverted into Minnesota River above station. Some regulation by Big Stone Lake since Apr. 17, 1937, Lac qui Parle since January 1938, Marsh Lake since Nov. 1, 1939, and Odessa Dam since May 1974.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	801	1350	e620	e375	1050	2110	1320	2430	1110	1180	676
2	106	696	1350	e595	e350	1100	2180	1310	2410	1030	1200	501
3	106	690	1340	e570	e350	1210	2000	1310	2340	1040	1200	405
4	107	685	1340	e550	e390	1220	1930	1300	2150	1040	1210	411
5	131	688	1360	e530	e395	1210	1820	1320	1860	1050	1130	417
6	303	683	1340	e510	e420	1210	1810	1420	1670	1010	849	518
7	593	685	1340	e490	e425	1210	1940	1740	1330	960	696	575
8	706	686	1290	e425	e435	1210	1960	1980	1170	964	700	550
9	692	690	1150	e420	e440	1240	2120	2020	1200	1130	708	522
10	595	866	1110	e415	e475	1290	2380	2060	1300	1350	828	486
11	570	754	1080	e415	e560	1350	2550	2150	1770	1350	1100	493
12	530	712	1040	e415	e660	1370	2530	2160	2130	1180	1300	492
13	411	756	1040	e400	e740	1410	2470	2210	2130	715	1170	494
14	245	837	1060	e400	e740	1400	2520	2340	1970	414	985	496
15	160	827	1140	e390	e730	1370	2570	2410	1640	498	974	499
16	160	928	1230	e360	e720	1320	2660	2520	1620	616	713	505
17	293	1090	1250	e350	e720	1320	2720	2660	1610	666	319	505
18	370	1180	1030	e348	e720	1320	2690	2720	1600	671	279	500
19	373	1310	e970	e348	e720	1340	2640	2670	1600	769	281	497
20	402	1340	e920	e345	e720	1390	2530	2680	1600	864	324	466
21	439	1340	e840	e344	e720	1400	2410	2630	1550	848	355	432
22	554	1290	e800	e344	e720	1490	2260	2570	1420	835	361	432
23	719	1290	e750	e348	e740	1740	1960	2600	1340	874	489	426
24	764	1300	e710	e348	817	1950	1620	2500	1380	1090	572	376
25	760	1350	e685	e348	897	1940	1600	2510	1450	1060	577	261
26	756	1350	e675	e375	967	1730	1650	2490	1440	941	578	229
27	796	1350	e665	e450	1050	1390	1780	2490	1420	677	578	230
28	852	1350	e690	e490	1050	1450	1860	2480	1380	654	579	230
29	853	1350	e680	e500	---	1620	1800	2470	1360	827	581	232
30	852	1370	e650	e450	---	1730	1560	2450	1300	860	675	306
31	847	---	e640	e390	---	1860	---	2460	---	874	836	---
TOTAL	15123	30244	31515	13283	18046	43840	64630	67950	49570	27967	23327	13162
MEAN	488	1008	1017	428	644	1414	2154	2192	1652	902	752	439
MAX	853	1370	1360	620	1050	1950	2720	2720	2430	1350	1300	676
MIN	78	683	640	344	350	1050	1560	1300	1170	414	279	229
AC-FT	30000	59990	62510	26350	35790	86960	128200	134800	98320	55470	46270	26110
CFSM	.12	.25	.25	.11	.16	.35	.53	.54	.41	.22	.19	.11
IN.	.14	.28	.29	.12	.17	.40	.59	.62	.46	.26	.21	.12

e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	275	288	228	153	186	854	2585	1383	1150	983	541	275
MAX	2924	2327	1204	574	644	4599	10750	5771	4229	7024	6012	2402
(WY)	1987	1985	1985	1987	1999	1994	1986	1986	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 1999 WATER YEAR

WATER YEARS 1943 - 1999

ANNUAL TOTAL	398657	
ANNUAL MEAN	1092	742
HIGHEST ANNUAL MEAN		2507
LOWEST ANNUAL MEAN		75.7
HIGHEST DAILY MEAN	2720	Apr 17, May 18
LOWEST DAILY MEAN	78	Oct 1
ANNUAL SEVEN-DAY MINIMUM	203	Oct 1
INSTANTANEOUS PEAK FLOW	2800	May 18
INSTANTANEOUS PEAK STAGE	29.78	May 18
INSTANTANEOUS LOW FLOW	39 ^b	Oct 1
ANNUAL RUNOFF (AC-FT)	790700	537700
ANNUAL RUNOFF (CFSM)	.27	.18
ANNUAL RUNOFF (INCHES)	3.66	2.49
10 PERCENT EXCEEDS	2170	1820
50 PERCENT EXCEEDS	941	220
90 PERCENT EXCEEDS	374	26

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

