

05301000 MINNESOTA RIVER NEAR LAC QUI PARLE, MN

LOCATION.--Lat 45°01'17", long 95°52'05", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup> (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 mi<sup>2</sup>, 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 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 ft<sup>3</sup>/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 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	566	191	221	177	172	1190	876	656	882	283	241	85
2	834	128	233	175	173	1180	872	610	878	245	126	85
3	790	129	269	173	169	1170	870	574	836	235	160	85
4	488	130	305	171	171	1180	762	581	619	220	187	85
5	293	156	295	176	173	1180	546	525	755	213	164	77
6	259	176	285	172	173	1310	424	460	873	219	164	63
7	240	176	282	175	172	1440	378	462	871	328	277	62
8	259	174	279	174	175	1430	339	523	867	438	245	58
9	280	181	277	174	176	1430	339	623	793	452	130	52
10	272	215	280	171	180	1350	346	650	621	464	105	51
11	278	212	277	171	198	1250	345	828	599	470	105	41
12	271	213	275	175	226	1250	354	997	573	453	77	40
13	316	223	279	175	226	1200	422	1010	505	488	50	34
14	402	220	277	176	226	1150	516	997	479	629	38	31
15	433	215	e277	171	225	1150	568	1040	514	631	27	31
16	443	219	e276	172	224	1110	572	1090	492	583	38	31
17	428	218	e275	174	226	1050	692	1080	457	404	116	31
18	429	218	e274	171	239	1040	811	967	454	221	159	31
19	425	270	e273	171	253	1040	760	793	458	334	186	31
20	424	215	e272	175	252	985	651	722	412	455	185	23
21	383	216	e271	175	253	783	570	722	367	514	121	23
22	329	221	271	172	260	684	566	598	357	520	115	29
23	301	232	231	171	289	678	566	451	361	531	137	29
24	308	221	228	172	316	675	567	449	350	466	135	29
25	286	220	222	170	395	666	564	448	353	363	135	29
26	250	226	218	175	478	664	560	460	349	439	135	28
27	206	224	217	175	484	715	561	462	350	679	135	28
28	183	221	203	174	677	911	620	486	343	835	136	28
29	153	219	174	172	1070	1010	687	540	329	696	136	28
30	131	219	175	172	---	966	687	616	295	705	127	28
31	133	---	176	172	---	885	---	779	---	573	91	---
TOTAL	10793	6098	7867	5369	8251	32722	17391	21199	16392	14086	4183	1306
MEAN	348	203	254	173	285	1056	580	684	546	454	135	43.5
MAX	834	270	305	177	1070	1440	876	1090	882	835	277	85
MIN	131	128	174	170	169	664	339	448	295	213	27	23
AC-FT	21410	12100	15600	10650	16370	64900	34500	42050	32510	27940	8300	2590
CFSM	.09	.05	.06	.04	.07	.26	.14	.17	.13	.11	.03	.01
IN.	.10	.06	.07	.05	.08	.30	.16	.19	.15	.13	.04	.01

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	277	286	229	154	188	857	2548	1370	1138	973	533	270
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 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1943 - 2000
ANNUAL TOTAL	346533	145657	
ANNUAL MEAN	949	398	736
HIGHEST ANNUAL MEAN			2507
LOWEST ANNUAL MEAN			75.7
HIGHEST DAILY MEAN	2720	Apr 17	28700
LOWEST DAILY MEAN	128	Nov 2	.00 <sup>a</sup>
ANNUAL SEVEN-DAY MINIMUM	142	Oct 29	.00
INSTANTANEOUS PEAK FLOW			29400
INSTANTANEOUS PEAK STAGE			39.75
INSTANTANEOUS LOW FLOW			.00 <sup>a</sup>
ANNUAL RUNOFF (AC-FT)	687300	288900	533000
ANNUAL RUNOFF (CFSM)	.23	.098	.18
ANNUAL RUNOFF (INCHES)	3.18	1.34	2.47
10 PERCENT EXCEEDS	2170	872	1790
50 PERCENT EXCEEDS	676	277	222
90 PERCENT EXCEEDS	221	101	27

<sup>a</sup> Many days, several years.  
<sup>b</sup> Due in part to regulation.  
<sup>c</sup> Result of regulation.  
<sup>e</sup> Estimated.

