

# UPPER MISSISSIPPI RIVER MAIN STEM

## 05245100 LONG PRAIRIE RIVER AT LONG PRAIRIE, MN

LOCATION.--Lat 4558'30", long 9451'56", in NE 1 / 4 NW 1 / 4 sec. 20, T. 129 N., R. 33 W., Todd County, Hydrologic Unit 07010108, on right bank 90 ft upstream from bridge on First Avenue at Long Prairie and 400 ft downstream from Venewitz Creek.

DRAINAGE AREA.--434 mi<sup>2</sup> (revised).

PERIOD OF RECORD.--October 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,281.74 ft above mean sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

### DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	84	76	e51	e69	268	304	154	160	328	173	108
2	93	98	76	e52	e66	250	312	151	159	342	167	100
3	85	99	e76	e54	e65	230	312	148	155	340	164	95
4	79	100	e73	e58	e65	211	316	144	152	310	163	88
5	75	107	e67	e59	e66	e195	308	140	149	267	161	83
6	76	89	e60	e59	e67	e185	292	137	142	249	154	78
7	77	92	e61	e59	e68	e175	280	134	139	235	150	73
8	76	99	e63	e60	e70	e160	290	151	136	221	147	69
9	115	105	e65	e61	e71	e145	299	171	132	209	143	68
10	117	105	e69	e62	e72	e135	310	195	128	202	138	67
11	115	98	e78	e61	e73	e137	303	214	139	196	133	61
12	119	59	e77	e60	e74	e140	282	226	147	189	128	57
13	136	31	e73	e59	e75	e145	268	229	152	183	125	56
14	143	28	69	e58	e76	e148	260	232	151	214	121	64
15	151	49	78	e58	e77	153	253	237	147	462	116	56

16	149	61	78	e58	e80	158	239	240	150	586	108	52
17	140	84	80	e59	e90	156	222	236	145	539	98	48
18	133	82	76	e62	e100	154	209	250	175	416	88	44
19	124	80	76	e63	e120	157	202	252	196	469	103	41
20	120	76	e69	e62	e135	166	197	223	200	611	136	40
21	112	72	e59	e62	e150	179	193	199	203	632	119	39
22	103	65	e53	e63	171	161	189	186	204	613	125	37
23	97	63	e53	e64	189	157	184	176	202	574	127	34
24	103	e64	e52	e65	209	155	178	169	195	504	119	32
25	91	65	e51	e66	236	160	175	163	196	411	116	36
26	81	67	e51	e68	293	162	170	157	e250	323	115	142
27	73	81	e50	e68	318	166	167	152	358	274	117	119
28	75	86	e49	e69	303	173	162	149	397	227	119	98
29	71	83	e49	e70	---	181	159	145	359	202	118	79
30	73	76	e48	e70	---	204	156	157	327	192	114	85
31	76	---	e50	e70	---	265	---	161	---	182	108	---
TOTAL	3179	2348	2005	1910	3448	5431	7191	5678	5745	10702	4013	2049
MEAN	103	78.3	64.7	61.6	123	175	240	183	192	345	129	68.3
MAX	151	107	80	70	318	268	316	252	397	632	173	142
MIN	71	28	48	51	65	135	156	134	128	182	88	32
AC-FT	6310	4660	3980	3790	6840	10770	14260	11260	11400	21230	7960	4060
CFSM	.24	.18	.15	.14	.29	.41	.55	.42	.44	.80	.30	.16

e Estimated

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	132	117	75.5	62.3	65.3	176	366	260	209	192	138	119

MAX	512	425	270	217	208	441	827	653	422	777	715	607
(WY)	1987	1972	1987	1987	1987	1985	1997	1986	1985	1972	1972	1986
MIN	13.4	8.69	3.19	1.05	1.62	19.8	71.8	45.5	27.5	4.73	10.0	5.32
(WY)	1977	1977	1977	1977	1977	1989	1977	1977	1988	1988	1989	1976

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1972 - 1998		
ANNUAL TOTAL	75492		53699				
ANNUAL MEAN	207		147		160		
HIGHEST ANNUAL MEAN					366		1972
LOWEST ANNUAL MEAN					25.2		1977
HIGHEST DAILY MEAN	1490	Apr 8	632	Jul 21	2900	Jul 22	1972
LOWEST DAILY MEAN	28	Nov 14	28	Nov 14	.84	Jan 12	1977
ANNUAL SEVEN-DAY MINIMUM	50	Dec 25	37	Sep 19	.84	Jan 12	1977
INSTANTANEOUS PEAK FLOW			640	Jul 21	3270	Jul 22	1972
INSTANTANEOUS PEAK STAGE			5.24	Jul 21	9.37	Jul 22	1972
INSTANTANEOUS LOW FLOW			17a	Nov 14	.84	Jan 12	1977
ANNUAL RUNOFF (AC-FT)	149700		106500		115600		
ANNUAL RUNOFF (CFSM)	.48		.34		.37		
10 PERCENT EXCEEDS	356		270		365		
50 PERCENT EXCEEDS	142		127		102		
90 PERCENT EXCEEDS	75		59		25		

a Result of freezeup.

