

## UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05245100 LONG PRAIRIE RIVER AT LONG PRAIRIE, MN

LOCATION.--Lat 45°58'30", long 94°51'56", in NE $\frac{1}{4}$ NW $\frac{1}{4}$  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>.

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

GAGE.--Water-stage recorder. Datum of gage is 1,281.74 ft above sea level (NGVD of 1929).

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

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	113	88	e56	e40	e76	215	146	281	94	76	71
2	114	111	88	e60	e40	e76	198	140	310	91	86	68
3	112	108	84	e58	e37	e76	187	135	316	98	86	67
4	110	108	85	e52	e36	e77	177	131	292	93	86	65
5	108	106	87	e47	e37	e77	170	128	267	91	85	83
6	106	e82	88	e45	e39	e78	165	126	250	109	86	91
7	104	e76	88	e47	e41	e80	162	121	226	117	97	81
8	103	e82	87	e52	e41	e78	159	119	206	111	96	82
9	103	e94	e79	e55	e43	e75	153	118	196	108	94	81
10	106	105	e72	e56	e43	e72	149	117	193	102	97	75
11	117	114	e54	e56	e44	e72	143	112	191	110	100	74
12	125	120	e45	e57	e44	e73	139	117	187	108	99	70
13	128	105	e51	e56	e45	e75	134	137	180	115	96	66
14	129	104	e57	e55	e46	e81	129	151	177	114	91	65
15	128	105	e64	e56	e42	e82	126	140	172	109	85	96
16	123	100	e67	e55	e46	e85	125	131	166	106	81	118
17	117	100	e69	e53	e49	e89	125	142	161	100	77	112
18	114	104	e68	e50	e53	e93	175	160	153	93	73	120
19	111	103	e67	e48	e55	e96	177	168	145	89	71	116
20	110	101	e65	e45	e56	e101	177	159	138	85	68	110
21	110	97	e65	e43	e58	e105	223	148	131	82	67	143
22	110	90	e64	e43	e61	e112	257	140	126	78	67	168
23	108	59	e61	e43	e65	e116	257	138	123	76	62	193
24	108	46	e59	e43	e69	e124	222	141	123	74	65	219
25	107	80	e59	e44	e70	e134	199	148	118	72	64	229
26	106	100	e67	e44	e73	e154	184	161	112	70	67	230
27	107	100	e71	e41	e73	e225	172	180	111	68	70	218
28	112	93	e67	e39	e74	341	164	190	108	69	72	196
29	112	91	e64	e37	e75	349	158	183	105	70	71	172
30	115	88	e59	e34	---	311	155	191	100	72	77	155
31	117	---	e56	e37	---	249	---	226	---	75	72	---
TOTAL	3,496	2,885	2,145	1,507	1,495	3,832	5,176	4,544	5,364	2,849	2,484	3,634
MEAN	113	96.2	69.2	48.6	51.6	124	173	147	179	91.9	80.1	121
MAX	129	120	88	60	75	349	257	226	316	117	100	230
MIN	103	46	45	34	36	72	125	112	100	68	62	65
AC-FT	6,930	5,720	4,250	2,990	2,970	7,600	10,270	9,010	10,640	5,650	4,930	7,210
CFSM	0.26	0.22	0.16	0.11	0.12	0.28	0.40	0.34	0.41	0.21	0.18	0.28
IN.	0.30	0.25	0.18	0.13	0.13	0.33	0.44	0.39	0.46	0.24	0.21	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2004, BY WATER YEAR (WY)

MEAN	130	117	76.2	63.0	66.3	168	369	280	238	207	140	122
MAX	512	425	270	217	208	441	1,062	653	774	777	715	607
(WY)	(1987)	(1972)	(1987)	(1987)	(1987)	(1985)	(2001)	(1986)	(2001)	(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)

## 05245100 LONG PRAIRIE RIVER AT LONG PRAIRIE, MN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1972 - 2004
ANNUAL TOTAL	75,420	39,411	
ANNUAL MEAN	207	108	
HIGHEST ANNUAL MEAN			165
LOWEST ANNUAL MEAN			366
HIGHEST DAILY MEAN	2,350	Jun 26	25.2
LOWEST DAILY MEAN	45	Dec 12	1972
ANNUAL SEVEN-DAY MINIMUM	51	Feb 5	Jul 22, 1972
MAXIMUM PEAK FLOW		349	Jan 12, 1977
MAXIMUM PEAK STAGE		Mar 29	0.84
INSTANTANEOUS LOW FLOW		355	0.84
ANNUAL RUNOFF (AC-FT)	149,600	Mar 29	3,270
ANNUAL RUNOFF (CFSM)	0.476	4.09	9.37
ANNUAL RUNOFF (INCHES)	6.46	a34	Jul 22, 1972
10 PERCENT EXCEEDS	397	Jan 30	Jan 12, 1977
50 PERCENT EXCEEDS	117		a0.84
90 PERCENT EXCEEDS	59		119,500
		78,170	0.380
			5.16
		181	367
		97	106
		51	28

a Estimated daily-mean discharge, backwater from ice.

e Estimated.

