

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 mi².

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 poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	134	e64	e53	e74	e82	559	200	296	401	148	224
2	191	133	e66	e52	e74	e82	485	194	263	342	144	236
3	216	127	e68	e53	e78	e83	390	189	237	331	145	243
4	237	123	e70	e53	e81	e84	307	178	225	366	140	249
5	238	119	e65	e54	e85	e97	275	173	290	421	134	244
6	209	115	e60	e54	e82	e126	276	172	364	454	131	311
7	184	110	e63	e55	e80	e178	265	175	409	448	129	310
8	173	105	e69	e56	e77	e195	242	181	432	421	126	293
9	160	103	e72	e54	e74	e188	226	192	463	374	139	286
10	145	102	e72	e54	e72	e171	224	216	469	326	138	281
11	134	97	e70	e54	e78	e146	288	240	474	283	137	281
12	126	92	e68	e54	e83	e128	450	247	531	262	134	293
13	123	88	e57	e50	e87	e118	574	252	560	242	131	333
14	118	88	e53	e47	e91	e109	642	279	589	215	130	331
15	118	86	e67	e46	e86	e109	655	300	659	203	130	321
16	115	86	e59	e46	e81	e107	650	310	672	195	130	315
17	113	87	e58	e48	e75	e106	580	300	651	186	140	302
18	110	87	e54	e51	e74	e107	511	285	644	180	137	289
19	107	91	e46	e51	e73	e106	462	297	601	172	143	283
20	103	100	e46	e51	e73	e105	432	325	572	169	140	274
21	102	102	e45	e51	e74	e105	393	342	538	166	135	263
22	112	103	e44	e50	e76	e104	352	321	486	161	130	254
23	122	101	e44	e50	e77	e113	313	276	438	161	128	242
24	124	e90	e49	e56	e78	e122	282	245	390	158	126	234
25	128	e77	e51	e62	e80	e137	264	260	349	174	130	244
26	125	e65	e52	e62	e80	e148	253	318	309	185	198	256
27	120	e65	e54	e63	e81	e156	235	362	277	169	199	250
28	120	e65	e53	e67	e81	181	220	389	250	164	189	245
29	126	e64	e53	e70	---	237	211	402	255	160	185	238
30	128	e64	e53	e70	---	415	206	375	440	157	190	239
31	131	---	e52	e70	---	493	---	327	---	154	206	---
TOTAL	4,429	2,869	1,797	1,707	2,205	4,638	11,222	8,322	13,133	7,800	4,542	8,164
MEAN	143	95.6	58.0	55.1	78.8	150	374	268	438	252	147	272
MAX	238	134	72	70	91	493	655	402	672	454	206	333
MIN	102	64	44	46	72	82	206	172	225	154	126	224
AC-FT	8,780	5,690	3,560	3,390	4,370	9,200	22,260	16,510	26,050	15,470	9,010	16,190
CFSM	0.33	0.22	0.13	0.13	0.18	0.34	0.86	0.62	1.01	0.58	0.34	0.63
IN.	0.38	0.25	0.15	0.15	0.19	0.40	0.96	0.71	1.13	0.67	0.39	0.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2005, BY WATER YEAR (WY)

MEAN	131	116	75.7	62.8	66.6	167	370	279	244	209	141	126
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1972 - 2005	
ANNUAL TOTAL	39,980		70,828		166	
ANNUAL MEAN	109		194		366	
HIGHEST ANNUAL MEAN					25.2	1972
LOWEST ANNUAL MEAN					0.84	1977
HIGHEST DAILY MEAN	349	Mar 29	672	Jun 16	2,900	Jul 22, 1972
LOWEST DAILY MEAN	34	Jan 30	44	Dec 22,23	0.84	Jan 12, 1977
ANNUAL SEVEN-DAY MINIMUM	37	Jan 29	46	Dec 19	0.84	Jan 12, 1977
MAXIMUM PEAK FLOW			710	Jun 15	3,270	Jul 22, 1972
MAXIMUM PEAK STAGE			5.71	Jun 15	9.37	Jul 22, 1972
INSTANTANEOUS LOW FLOW			a44	Dec 22	0.84	Jan 12, 1977
ANNUAL RUNOFF (AC-FT)	79,300		140,500		120,100	
ANNUAL RUNOFF (CFSM)	0.252		0.447		0.382	
ANNUAL RUNOFF (INCHES)	3.43		6.07		5.19	
10 PERCENT EXCEEDS	190		401		367	
50 PERCENT EXCEEDS	96		143		108	
90 PERCENT EXCEEDS	48		55		28	

a Estimated daily-mean discharge, backwater from ice.
 e Estimated.

