

05212700 PRAIRIE RIVER NEAR TACONITE, MN

LOCATION.--Lat 47°23'20", long 93°22'50", in NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T.57 N., R.24 W., Itasca County, Hydrologic Unit 07010103, on left bank 125 ft downstream from bridge on County Highway 7, 1.5 mi downstream from outlet of Lawrence Lake and 5 mi north of Taconite.

DRAINAGE AREA.--371 mi² (revised).

PERIOD OF RECORD.--April 1967 to September 1983, February 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,294.81 ft above sea level (NGVD of 1929). Prior to Aug. 31, 1967, nonrecording gage at site 125 ft downstream (same datum).

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	126	e93	e81	e56	e50	99	195	238	132	139	65
2	48	125	e91	e80	e56	e49	99	183	239	135	144	63
3	44	124	e87	e80	e56	e49	97	166	238	165	152	61
4	55	121	e84	e79	e56	e49	95	150	231	170	157	58
5	60	119	e80	e79	e56	e49	88	149	217	186	161	55
6	63	119	e78	e78	e55	e48	86	142	203	205	163	53
7	66	115	e76	e78	e55	e48	86	130	189	225	164	51
8	70	115	e76	e79	e54	e48	86	119	183	227	160	49
9	72	113	e75	e80	e54	e48	86	124	175	228	154	47
10	76	117	e75	e79	e53	e48	89	133	176	275	148	46
11	79	111	e77	e77	e53	e48	92	138	172	298	143	48
12	97	109	e79	e74	e52	e48	93	133	165	318	137	55
13	97	108	e80	e71	e51	e49	94	136	162	333	131	55
14	97	106	e81	e69	e51	e52	99	141	153	344	125	54
15	107	e104	e80	e67	e50	e58	102	145	144	353	121	55
16	112	e102	e80	e66	e51	e66	101	145	138	344	116	57
17	118	100	e80	e64	e52	e73	102	143	138	334	109	57
18	125	99	e80	e63	e52	e79	101	139	139	315	103	62
19	129	99	e79	e61	e52	e85	112	166	127	294	98	67
20	129	99	e79	e60	e52	e89	124	189	119	274	92	64
21	130	99	e78	e59	e51	e92	142	193	114	253	90	64
22	130	97	e78	e58	e50	e95	154	215	112	228	84	65
23	127	99	e77	e57	e49	97	174	235	109	203	82	65
24	123	98	e77	e56	e49	102	199	245	115	182	79	64
25	121	97	e78	e56	e48	104	220	247	122	166	77	63
26	120	e97	e79	e55	e48	105	233	242	125	153	82	62
27	120	e96	e81	e54	e48	106	237	232	125	140	78	63
28	120	96	e82	e54	e49	110	236	235	126	128	76	61
29	128	96	e82	e54	---	106	224	223	135	119	73	59
30	130	e95	e82	e55	---	103	208	235	135	137	70	59
31	127	---	e82	e56	---	100	---	238	---	137	67	---
TOTAL	3,067	3,201	2,486	2,079	1,459	2,253	3,958	5,506	4,764	7,001	3,575	1,747
MEAN	98.9	107	80.2	67.1	52.1	72.7	132	178	159	226	115	58.2
MAX	130	126	93	81	56	110	237	247	239	353	164	67
MIN	44	95	75	54	48	48	86	119	109	119	67	46
AC-FT	6,080	6,350	4,930	4,120	2,890	4,470	7,850	10,920	9,450	13,890	7,090	3,470
CFSM	0.27	0.29	0.22	0.18	0.14	0.20	0.36	0.48	0.43	0.61	0.31	0.16
IN.	0.31	0.32	0.25	0.21	0.15	0.23	0.40	0.55	0.48	0.70	0.36	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2003, BY WATER YEAR (WY)

MEAN	196	197	109	74.8	70.4	92.1	587	525	352	237	114	124
MAX	586	605	222	110	106	170	1,329	1,094	866	618	295	482
(WY)	(1974)	(1972)	(1978)	(1978)	(1969)	(1983)	(1969)	(1975)	(1974)	(1975)	(1978)	(1977)
MIN	11.4	14.0	15.5	24.1	37.0	60.1	86.9	57.0	69.7	61.3	24.3	15.4
(WY)	(1977)	(1977)	(1977)	(1977)	(1968)	(1977)	(1977)	(1977)	(1980)	(1980)	(1976)	(1976)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1967 - 2003	
ANNUAL TOTAL	75,782		41,096		220	
ANNUAL MEAN	208		113		89.1	
HIGHEST ANNUAL MEAN					327	1974
LOWEST ANNUAL MEAN					89.1	1977
HIGHEST DAILY MEAN	3,170	Jun 27	353	Jul 15	3,240	Apr 17, 1969
LOWEST DAILY MEAN	44	Oct 3	44	Oct 3	8.0	Oct 5, 1970
ANNUAL SEVEN-DAY MINIMUM	47	Sep 27	48	Mar 6	11	Oct 17, 1976
MAXIMUM PEAK FLOW			357	Jul 15	3,260	Apr 17, 1969
MAXIMUM PEAK STAGE			4.78	Jul 15	11.81	Apr 17, 1969
INSTANTANEOUS LOW FLOW			43	Oct 3	7.0	Oct 5, 1970
ANNUAL RUNOFF (AC-FT)	150,300		81,510		159,600	
ANNUAL RUNOFF (CFSM)	0.56		0.30		0.59	
ANNUAL RUNOFF (INCHES)	7.60		4.12		8.07	
10 PERCENT EXCEEDS	290		211		508	
50 PERCENT EXCEEDS	109		97		112	
90 PERCENT EXCEEDS	76		52		49	

e Estimated.

