

05062500 WILD RICE RIVER AT TWIN VALLEY, MN

LOCATION.--Lat 47°16'00", long 96°14'40", in NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 27, T.144 N., R.44, Norman County, Hydrologic Unit 09020108, on left bank, 100 ft upstream from County Highway 29 bridge, 0.8 mi northeast of Twin Valley, and 2 mi upstream from small tributary.

DRAINAGE AREA.--934 mi².

PERIOD OF RECORD.--June 1909 to September 1917, July 1930 to September 1983, October 1989 to current year. Monthly discharge only for some periods, published in WSP 1308. October 1983 to September 1989, annual maximums only.

REVISED RECORDS.--WSP 955: 1941. WSP 1308: 1915(M), 1917(M).

GAGE.--Water-stage recorder. Datum of gage is 1,008.16 ft above sea level (NGVD of 1929, U.S. Army Corps of Engineers bench mark). June 1909 to September 1917, nonrecording gage at site 0.2 mi downstream at different datum. July 23, 1930 to Nov. 24, 1934, nonrecording gage at highway bridge 100 ft downstream from present site at present datum. Nov. 25, 1934 to Aug. 2, 1950, water-stage recorder 80 ft upstream from present site at present datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow slightly regulated by Rice Lake and many other small lakes above station.

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	157	165	e178	e135	e90	e80	391	294	282	565	112	28
2	154	171	e177	e130	e90	e80	380	286	269	468	106	22
3	151	175	e176	e125	e92	e80	368	280	258	439	100	21
4	149	173	e175	e120	e93	e80	358	275	250	468	94	21
5	149	168	e176	e118	e94	e80	341	272	243	406	89	20
6	150	163	e178	e115	e94	e80	326	272	238	342	81	21
7	153	159	e178	e115	e92	e80	322	274	228	306	75	19
8	154	157	e179	e115	e92	e79	323	272	217	275	69	19
9	155	157	e180	e115	e91	e79	319	273	214	261	63	18
10	154	157	e182	e115	e90	e79	316	298	230	284	58	24
11	154	157	e183	e112	e88	e79	313	342	257	292	53	29
12	154	157	e185	e105	e86	e79	310	378	267	358	50	24
13	154	163	e190	e100	e85	e79	305	394	327	286	45	26
14	153	160	e185	e95	e85	e80	304	385	344	268	43	28
15	152	153	e182	e94	e85	e80	304	376	286	262	40	30
16	151	154	e178	e94	e85	e85	307	366	260	246	38	30
17	150	156	e175	e93	e85	e100	312	355	253	228	35	29
18	149	163	e172	e92	e84	e150	313	344	277	213	33	40
19	149	172	e170	e92	e83	e250	317	354	246	202	32	82
20	149	185	e165	e92	e81	e400	324	424	230	193	31	77
21	149	194	e155	e91	e80	606	330	488	219	185	31	57
22	149	196	e152	e91	e80	593	333	483	238	176	e29	61
23	149	197	e150	e91	e80	577	331	455	925	168	e27	59
24	150	201	e150	e91	e80	554	328	434	851	159	e25	57
25	151	210	e150	e91	e80	529	326	410	1,070	150	e23	43
26	151	202	e150	e91	e80	506	324	386	1,360	147	20	39
27	151	195	e150	e91	e80	480	319	362	1,110	144	21	34
28	152	e190	e148	e91	e80	462	316	341	834	137	24	35
29	154	e182	e145	e90	---	444	313	322	706	131	24	36
30	156	e179	e140	e90	---	413	304	307	635	125	26	35
31	160	---	e138	e90	---	401	---	294	---	117	29	---
TOTAL	4,713	5,211	5,192	3,170	2,405	7,744	9,777	10,796	13,124	8,001	1,526	1,064
MEAN	152	174	167	102	85.9	250	326	348	437	258	49.2	35.5
MAX	160	210	190	135	94	606	391	488	1,360	565	112	82
MIN	149	153	138	90	80	79	304	272	214	117	20	18
AC-FT	9,350	10,340	10,300	6,290	4,770	15,360	19,390	21,410	26,030	15,870	3,030	2,110
CFSM	0.16	0.19	0.18	0.11	0.09	0.27	0.35	0.37	0.47	0.28	0.05	0.04
IN.	0.19	0.21	0.21	0.13	0.10	0.31	0.39	0.43	0.52	0.32	0.06	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2003, BY WATER YEAR (WY)

MEAN	100	102	66.8	49.6	49.1	156	624	446	380	282	119	99.8
MAX	614	941	343	200	336	828	2,471	2,259	3,441	1,926	1,024	842
(WY)	(1974)	(2001)	(2001)	(2001)	(1998)	(1995)	(1997)	(1950)	(2002)	(1909)	(1993)	(1999)
MIN	6.10	9.31	6.00	4.00	4.00	12.8	73.8	30.9	26.4	8.04	3.02	2.96
(WY)	(1933)	(1933)	(1933)	(1933)	(1933)	(1940)	(1931)	(1977)	(1977)	(1934)	(1932)	(1936)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1909 - 2003	
ANNUAL TOTAL	235,538		72,723		a204	
ANNUAL MEAN	645		199		656	
HIGHEST ANNUAL MEAN					22.7	
LOWEST ANNUAL MEAN					1977	
HIGHEST DAILY MEAN	16,600	Jun 24	1,360	Jun 26	16,600	Jun 24, 2002
LOWEST DAILY MEAN	113	Mar 9	18	Sep 9	1.1	Aug 13, 1932
ANNUAL SEVEN-DAY MINIMUM	115	Mar 4	20	Sep 3	1.3	Aug 11, 1932
MAXIMUM PEAK FLOW			1,400	Jun 26	20,300	Jun 24, 2002
MAXIMUM PEAK STAGE			6.74	Jun 26	b17.96	Jun 24, 2002
INSTANTANEOUS LOW FLOW					0.50	Nov 4, 1939
ANNUAL RUNOFF (AC-FT)	467,200		144,200		147,500	
ANNUAL RUNOFF (CFSM)	0.69		0.21		0.22	
ANNUAL RUNOFF (INCHES)	9.38		2.90		2.96	
10 PERCENT EXCEEDS	1,230		379		510	
50 PERCENT EXCEEDS	201		154		77	
90 PERCENT EXCEEDS	130		37		16	

a Median of annual mean discharges is 170 ft³/s.

b From floodmark. Gage-height 20.00 ft., July 22, 1909; site and datum then in use. Equivalent stage at present site is approximately 16.0 ft.

c Estimated.

