

## 05062500 WILD RICE RIVER AT TWIN VALLEY, MN

LOCATION.--Lat 47°16'00", long 96°14'40", in NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> sec. 27, T.144 N., R.44W., 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 mi<sup>2</sup>.

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 good 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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	3,080	487	e189	e150	e122	e2,100	512	1,120	493	111	45
2	237	e2,740	478	e187	e156	e123	1,950	485	1,030	513	106	44
3	223	e2,250	478	e185	e155	e126	1,690	463	1,020	497	101	43
4	204	e1,930	e470	e182	e156	e132	1,460	441	1,070	457	94	42
5	188	1,730	e460	e180	e146	e145	1,330	419	1,190	429	89	42
6	179	1,550	e448	e178	e136	e142	1,240	400	1,530	404	82	170
7	180	1,420	436	e177	e130	e136	1,160	385	1,520	380	79	126
8	171	1,320	e430	e176	e130	e137	1,100	375	1,550	361	69	92
9	160	1,200	422	e175	e135	e143	1,030	396	1,610	346	66	67
10	154	1,110	411	e173	e139	e143	979	1,240	1,530	330	64	359
11	147	1,030	405	e170	e141	e141	938	773	1,420	304	62	273
12	144	953	370	e165	e143	e137	923	652	1,690	286	61	146
13	139	883	249	e158	e141	e135	963	578	1,750	276	59	111
14	133	841	e255	e152	e138	e136	1,000	567	1,740	259	56	95
15	131	802	e250	e147	e135	e136	1,010	573	1,710	235	54	84
16	137	776	e245	e144	e132	e137	1,030	542	1,600	227	52	70
17	144	746	e250	e144	e130	e139	1,010	484	1,410	222	52	62
18	145	719	e240	e145	e129	e142	951	465	1,250	211	52	54
19	145	717	e235	e144	e128	e146	901	465	1,100	205	59	50
20	145	739	e232	e143	e126	e151	858	462	989	198	62	46
21	146	748	e210	e142	e124	e158	821	463	909	190	58	43
22	148	732	e205	e141	e123	e163	787	457	829	181	53	41
23	207	709	e200	e141	e122	e170	753	450	752	167	48	37
24	451	638	e197	e142	e122	e174	722	444	675	157	45	36
25	755	553	e195	e141	e122	e195	690	403	600	152	47	37
26	736	528	e192	e139	e122	e245	659	563	537	147	183	37
27	687	e515	e189	e139	e122	e350	630	1,060	509	139	131	35
28	652	e508	e189	e140	e122	e512	602	1,140	475	136	76	37
29	644	e500	e191	e141	---	e1,100	573	1,190	450	129	56	35
30	2,140	e495	e191	e143	---	e2,350	540	1,210	457	122	48	34
31	3,020	---	e190	e146	---	e2,290	---	1,190	---	115	44	---
TOTAL	12,942	32,462	9,400	4,869	3,755	10,456	30,400	19,247	34,022	8,268	2,219	2,393
MEAN	417	1,082	303	157	134	337	1,013	621	1,134	267	71.6	79.8
MAX	3,020	3,080	487	189	156	2,350	2,100	1,240	1,750	513	183	359
MIN	131	495	189	139	122	122	540	375	450	115	44	34
AC-FT	25,670	64,390	18,640	9,660	7,450	20,740	60,300	38,180	67,480	16,400	4,400	4,750
CFSM	0.45	1.16	0.32	0.17	0.14	0.36	1.08	0.66	1.21	0.29	0.08	0.09
IN.	0.52	1.29	0.37	0.19	0.15	0.42	1.21	0.77	1.36	0.33	0.09	0.10

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2005, BY WATER YEAR (WY)

MEAN	104	114	69.9	51.2	50.4	162	628	447	388	281	118	102
MAX	614	1,082	343	200	336	828	2,471	2,259	3,441	1,926	1,024	842
(WY)	(1974)	(2005)	(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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1909 - 2005	
ANNUAL TOTAL	122,544		170,433		a207	
ANNUAL MEAN	335		467		656	
HIGHEST ANNUAL MEAN					22.7	
LOWEST ANNUAL MEAN					1977	
HIGHEST DAILY MEAN	3,080	Nov 1	3,080	Nov 1	16,600	Jun 24, 2002
LOWEST DAILY MEAN	29	Aug 28	34	Sep 30	1.1	Aug 13, 1932
ANNUAL SEVEN-DAY MINIMUM	31	Aug 22	36	Sep 24	1.3	Aug 11, 1932
MAXIMUM PEAK FLOW			3,140	Nov 1	20,300	Jun 24, 2002
MAXIMUM PEAK STAGE			9.45	Nov 1	b17.96	Jun 24, 2002
INSTANTANEOUS LOW FLOW					0.50	Nov 4, 1939
ANNUAL RUNOFF (AC-FT)	243,100		338,100		149,900	
ANNUAL RUNOFF (CFSM)	0.358		0.500		0.222	
ANNUAL RUNOFF (INCHES)	4.88		6.79		3.01	
10 PERCENT EXCEEDS	737		1,190		520	
50 PERCENT EXCEEDS	189		204		78	
90 PERCENT EXCEEDS	56		62		17	

a Median of annual mean discharges is 180 ft<sup>3</sup>/s.  
 b From floodmark. Gage-height 20.00 ft., July 22, 1909; site and datum then in use.  
 c Estimated.

