

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.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 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	54	e73	e70	e54	e81	1,210	279	642	74	92	38
2	30	58	e74	e69	e54	e83	1,250	271	656	72	81	35
3	29	51	e73	e66	e54	e85	990	255	570	73	71	31
4	27	43	e72	e64	e55	e88	795	245	481	125	62	33
5	29	e41	e71	e63	e55	e90	701	232	419	128	55	77
6	32	e40	e72	e64	e55	e94	647	216	369	121	52	366
7	38	e39	e71	e64	e56	e97	595	197	333	138	56	1,010
8	32	39	e70	e64	e56	e100	549	189	298	151	61	1,040
9	29	43	e68	e64	e57	e103	504	179	266	143	64	848
10	30	45	e65	e64	e57	e107	464	182	245	124	92	573
11	33	47	e64	e64	e58	e108	432	207	224	475	87	397
12	34	50	e64	e64	e58	e108	e410	711	210	435	82	312
13	30	47	e64	e64	e59	e111	e390	1,060	204	268	72	261
14	30	57	e65	e64	e60	e115	377	836	204	188	62	e205
15	32	60	e66	e64	e61	e119	364	613	191	148	55	166
16	35	63	e66	e64	e62	e123	362	494	179	262	50	166
17	37	67	e67	e63	e62	e130	e370	454	164	396	46	199
18	34	72	e69	e62	e63	e138	e390	443	153	243	42	190
19	34	77	e71	e61	e64	e145	e415	412	146	176	38	158
20	36	82	e73	e60	e65	e162	443	380	136	145	35	137
21	40	78	e73	e59	e66	e193	437	359	124	126	32	152
22	33	64	e72	e59	e67	e208	415	344	115	111	31	224
23	33	56	e71	e58	e68	e240	404	318	115	94	30	247
24	34	45	e71	e57	e70	e300	386	306	120	87	33	349
25	32	e52	e72	e56	e72	e432	368	317	114	77	31	502
26	31	e59	e74	e55	e74	e670	354	328	109	71	31	475
27	34	e65	e75	e55	e75	e1,460	340	326	103	65	30	405
28	42	e68	e73	e55	e77	e2,500	323	301	94	76	29	337
29	47	e74	e71	e54	e79	e2,350	309	282	86	173	32	303
30	55	e73	e69	e54	---	1,760	298	398	81	168	51	274
31	56	---	e69	e54	---	1,410	---	561	---	112	41	---
TOTAL	1,080	1,709	2,168	1,898	1,813	13,710	15,292	11,695	7,151	5,045	1,626	9,510
MEAN	34.8	57.0	69.9	61.2	62.5	442	510	377	238	163	52.5	317
MAX	56	82	75	70	79	2,500	1,250	1,060	656	475	92	1,040
MIN	27	39	64	54	54	81	298	179	81	65	29	31
AC-FT	2,140	3,390	4,300	3,760	3,600	27,190	30,330	23,200	14,180	10,010	3,230	18,860
CFSM	0.04	0.06	0.07	0.07	0.07	0.47	0.55	0.40	0.26	0.17	0.06	0.34
IN.	0.04	0.07	0.09	0.08	0.07	0.55	0.61	0.47	0.28	0.20	0.06	0.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2004, BY WATER YEAR (WY)

MEAN	99.6	101	66.8	49.8	49.3	159	623	445	379	281	119	103
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1909 - 2004	
ANNUAL TOTAL	62,564		72,697			
ANNUAL MEAN	171		199		a204	
HIGHEST ANNUAL MEAN					656	2002
LOWEST ANNUAL MEAN					22.7	1977
HIGHEST DAILY MEAN	1,360	Jun 26	2,500	Mar 28	16,600	Jun 24, 2002
LOWEST DAILY MEAN	18	Sep 9	27	Oct 4	1.1	Aug 13, 1932
ANNUAL SEVEN-DAY MINIMUM	20	Sep 3	31	Aug 22	1.3	Aug 11, 1932
MAXIMUM PEAK FLOW			b2,500	Mar 28	20,300	Jun 24, 2002
MAXIMUM PEAK STAGE			c8.35	Mar 28	d17.96	Jun 24, 2002
INSTANTANEOUS LOW FLOW					0.50	Nov 4, 1939
ANNUAL RUNOFF (AC-FT)	124,100		144,200		147,400	
ANNUAL RUNOFF (CFSM)	0.184		0.213		0.218	
ANNUAL RUNOFF (INCHES)	2.49		2.90		2.96	
10 PERCENT EXCEEDS	379		439		510	
50 PERCENT EXCEEDS	89		76		77	
90 PERCENT EXCEEDS	31		36		16	

- a Median of annual mean discharges is 170 ft³/s.
- b Maximum daily.
- c From floodmark.
- d From floodmark. Gage-height 20.00 ft., July 22, 1909; site and datum then in use.
- e Estimated.

