

RED RIVER OF THE NORTH BASIN--Continued

05062500 WILD RICE RIVER AT TWIN VALLEY, MN

LOCATION.--Lat 47°16'00", long 96°14'40", in NW¹/₄NE¹/₄ 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 (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 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	208	e320	e140	e130	e135	1620	616	599	438	384	366
2	41	207	e340	e140	e130	e135	1630	584	578	421	362	427
3	41	193	e340	e140	e125	e135	1630	548	556	419	376	720
4	41	186	e330	e140	e125	e130	1630	515	534	738	489	e1300
5	51	180	e320	e140	e120	e130	1700	501	685	1200	497	e2000
6	71	174	e310	e135	e120	e125	1750	521	871	1050	428	2050
7	79	169	e300	e135	e125	e125	1750	664	897	931	386	1810
8	87	167	e270	e135	e130	e125	1720	916	824	952	359	1530
9	84	167	e250	e135	e135	e120	1660	904	812	1310	359	1250
10	84	168	e230	e135	e140	e120	1600	1470	1000	1260	487	1000
11	81	174	e230	e140	e135	e120	1500	2090	1030	1090	613	880
12	83	166	e220	e140	e130	e120	1410	2160	1050	933	597	860
13	92	145	e220	e140	e125	e130	1340	2320	991	856	858	854
14	98	e140	e210	e140	e130	e140	1290	2410	877	799	1020	848
15	96	e135	e210	e140	e135	e160	1240	2210	789	718	990	832
16	97	e135	e200	e145	e135	e180	1180	2030	731	694	827	805
17	111	e135	e180	e145	e130	e200	1130	1860	691	709	697	757
18	180	e135	e170	e145	e130	e250	1090	1670	653	648	613	708
19	253	e135	e150	e145	e125	e350	1060	1530	623	583	556	657
20	254	e130	e145	e145	e125	e700	1020	1390	592	538	508	613
21	235	e135	e140	e145	e120	e900	996	1240	556	501	468	578
22	214	e150	e135	e140	e120	e950	963	1110	525	473	435	544
23	202	e170	e135	e140	e120	e930	913	1030	510	454	416	518
24	200	e190	e135	e135	e120	e850	866	968	530	447	440	495
25	203	e220	e135	e135	e120	e800	820	911	533	421	492	476
26	209	e250	e135	e135	e125	e760	786	861	511	441	472	476
27	229	e280	e135	e135	e125	e740	756	811	494	539	442	487
28	232	e290	e135	e130	e135	1020	718	756	478	521	415	504
29	227	e300	e135	e130	---	1200	678	701	454	495	386	476
30	218	e310	e140	e130	---	1450	644	652	446	450	366	443
31	207	---	e140	e130	---	1580	---	621	---	413	362	---
TOTAL	4344	5544	6445	4285	3565	14810	37090	36570	20420	21442	16100	25264
MEAN	140	185	208	138	127	478	1236	1180	681	692	519	842
MAX	254	310	340	145	140	1580	1750	2410	1050	1310	1020	2050
MIN	41	130	135	130	120	120	644	501	446	413	359	366
AC-FT	8620	11000	12780	8500	7070	29380	73570	72540	40500	42530	31930	50110
CFSM	.15	.20	.22	.15	.14	.51	1.32	1.26	.73	.74	.56	.90
IN.	.17	.22	.26	.17	.14	.59	1.48	1.46	.81	.85	.64	1.01

e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	92.8	84.6	57.8	44.4	44.6	149	614	444	322	261	115	96.7
MAX	614	488	208	138	336	828	2471	2259	1560	1926	1024	842
(WY)	1974	1972	1999	1999	1998	1995	1997	1950	1943	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

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1909 - 1999
ANNUAL TOTAL	137699	195879	
ANNUAL MEAN	377	537	191 ^a
HIGHEST ANNUAL MEAN			537
LOWEST ANNUAL MEAN			22.7
HIGHEST DAILY MEAN	3020	2410	9100
LOWEST DAILY MEAN	41	41	1.1
ANNUAL SEVEN-DAY MINIMUM	42	53	1.3
INSTANTANEOUS PEAK FLOW		2480	10000 ^b
INSTANTANEOUS PEAK STAGE		9.32	20.00 ^c
INSTANTANEOUS LOW FLOW		40	.50
ANNUAL RUNOFF (AC-FT)	273100	388500	138300
ANNUAL RUNOFF (CFSM)	.40	.57	.20
ANNUAL RUNOFF (INCHES)	5.48	7.80	2.78
10 PERCENT EXCEEDS	857	1240	500
50 PERCENT EXCEEDS	227	416	70
90 PERCENT EXCEEDS	81	125	16

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

b Gage-height 15.91 ft.

c Approximately, site and datum then in use. Equivalent stage at present site is approximately 16.0 ft.

