

## 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 NW<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> 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 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 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e155	521	e560	e230	e185	e170	e260	1300	981	289	170	67
2	e160	759	e540	e230	e185	e170	e300	1230	989	270	174	64
3	e170	860	e515	e225	e185	e170	e500	1180	1000	258	136	61
4	e170	856	e480	e220	e180	e170	e750	1130	983	246	119	58
5	e170	858	e460	e220	e180	e170	e1170	1070	936	229	107	56
6	180	938	e440	e215	e180	e170	e1600	1030	893	221	105	54
7	178	1370	e420	e210	e180	e170	e3400	1000	857	216	92	77
8	175	1560	e400	e210	e180	e165	4890	980	823	207	104	146
9	173	1590	e380	e210	e180	e165	4200	960	791	192	786	167
10	171	1500	e375	e205	e175	e165	3510	920	753	180	835	141
11	172	1420	e360	e205	e175	e165	2860	862	711	170	637	120
12	175	1330	e350	e200	e175	e165	2950	825	675	159	445	107
13	171	1250	e340	e200	e175	e160	3740	786	642	160	308	96
14	235	1180	e340	e200	e170	e160	3120	752	620	142	242	89
15	458	1050	e330	e200	e170	e160	2540	725	606	136	220	83
16	593	966	e320	e195	e170	e160	2280	700	603	134	228	78
17	486	911	e310	e195	e175	e160	2190	671	591	121	203	72
18	442	892	e305	e195	e175	e160	2040	645	581	116	171	69
19	418	853	e295	e190	e175	e160	1820	625	564	171	158	64
20	397	798	e290	e190	e180	e160	1680	602	543	154	146	65
21	388	810	e280	e190	e180	e160	1590	604	527	177	127	65
22	386	e770	e280	e190	e175	e160	1510	619	512	202	116	68
23	381	e700	e275	e190	e175	e160	1460	656	485	194	109	70
24	376	e700	e270	e190	e175	e160	1490	764	458	164	99	69
25	368	e680	e260	e190	e170	e160	1570	816	436	143	91	66
26	392	e660	e255	e190	e170	e165	1630	825	409	127	87	65
27	417	e650	e250	e190	e170	e170	1620	875	378	118	85	61
28	469	e630	e245	e185	e170	e170	1550	951	351	116	83	57
29	463	e600	e240	e185	---	e175	1460	996	332	109	79	55
30	465	e580	e240	e185	---	e180	1370	999	312	105	76	48
31	475	---	e235	e185	---	e190	---	991	---	127	72	---
TOTAL	9829	28242	10640	6215	4935	5145	61050	27089	19342	5353	6410	2358
MEAN	317	941	343	200	176	166	2035	874	645	173	207	78.6
MAX	593	1590	560	230	185	190	4890	1300	1000	289	835	167
MIN	155	521	235	185	170	160	260	602	312	105	72	48
AC-FT	19500	56020	21100	12330	9790	10210	121100	53730	38360	10620	12710	4680
CFSM	.34	1.01	.37	.21	.19	.18	2.18	.94	.69	.18	.22	.08
IN.	.39	1.12	.42	.25	.20	.20	2.43	1.08	.77	.21	.26	.09

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	98.9	98.7	63.6	47.6	47.5	154	631	447	338	262	116	97.6
MAX	614	941	343	200	336	828	2471	2259	1560	1926	1024	842
(WY)	1974	2001	2001	2001	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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1909 - 2001
ANNUAL TOTAL	153399	186608	
ANNUAL MEAN	419	511	197a
HIGHEST ANNUAL MEAN			537
LOWEST ANNUAL MEAN			22.7
HIGHEST DAILY MEAN	5110	4890	9100
LOWEST DAILY MEAN	91	48	1.1
ANNUAL SEVEN-DAY MINIMUM	91	60	1.3
MAXIMUM PEAK FLOW		5250b	10000c
MAXIMUM PEAK STAGE		12.63d	20.00f
INSTANTANEOUS LOW FLOW			.50
ANNUAL RUNOFF (AC-FT)	304300	370100	143000
ANNUAL RUNOFF (CFSM)	.45	.55	.21
ANNUAL RUNOFF (INCHES)	6.11	7.43	2.87
10 PERCENT EXCEEDS	775	1170	510
50 PERCENT EXCEEDS	280	229	74
90 PERCENT EXCEEDS	110	105	16

- a Median of annual mean discharges is 168 ft<sup>3</sup>/s.
- b Gage-height, 12.24 ft.
- c Gage-height, 15.91 ft.
- d Backwater from ice.
- e Estimated.
- f Approximately, site and datum then in use; equivalent stage at present site is approximately 16.0 ft.

