

RED RIVER OF THE NORTH BASIN--Continued

05064000 WILD RICE RIVER AT HENDRUM, MN

LOCATION.--Lat 47°16'05", long 96°47'50", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, T.144 N., R.48 W., Norman County, Hydrologic Unit 09020108, on right bank, 30 ft downstream from County Highway 25 bridge, 0.5 mi east of Hendrum and 4 mi upstream from mouth.

DRAINAGE AREA.--1,560 mi².

PERIOD OF RECORD.--March 1944 to September 1984 and May 1985 to current year. Operated as a high-flow partial-record station October 1984 to April 1985.

REVISED RECORDS.--WSP 1728: 1958.

GAGE.--Water-stage recorder. Datum of gage is 836.75 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to July 18, 1989, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Large part of high flow diverted into Marsh River Basin at overflow section 3.5 mi east of Ada. Another diversion into the Marsh River basin formed in 1947, 1.5 mi southeast of Ada and diverted water at all stages 1947-51, after which it was closed except for a small regulated flow diverted for abatement of contamination from Ada sewage plant effluent. Amount of diversion not known.

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	68	358	e520	e155	e140	e145	3700	898	781	618	534	470
2	68	349	e525	e155	e140	e144	3560	856	746	596	492	533
3	67	343	e520	e155	e140	e142	3440	825	719	569	465	912
4	67	319	e500	e155	e135	e141	3460	769	691	622	458	1430
5	73	307	e450	e155	e135	e140	3550	745	781	1520	543	2350
6	82	300	e420	e155	e137	e138	3380	737	1130	2300	612	2950
7	99	293	e350	e150	e140	e137	3070	823	1360	2040	545	3320
8	120	288	e300	e150	e143	e136	2750	1030	1310	1550	490	3410
9	130	285	e260	e150	e147	e135	2450	1420	1180	1410	458	3210
10	131	304	e245	e150	e149	e132	2310	1680	1130	1800	447	2610
11	134	253	e230	e150	e147	e131	2180	3010	1490	1830	535	1840
12	149	e240	e225	e150	e144	e133	2090	3840	1530	1590	711	1460
13	147	e230	e220	e150	e142	e138	2040	4040	1430	1320	739	1340
14	141	e225	e220	e155	e144	e145	1960	4000	1310	1140	950	1280
15	144	e220	e220	e160	e146	e160	1850	3920	1160	1060	1160	1230
16	137	e210	e210	e160	e146	e190	1760	3820	1040	965	1200	1160
17	258	e205	e200	e160	e143	e220	1670	3650	947	918	1060	1090
18	511	e200	e190	e160	e140	e250	1590	3360	879	915	913	1010
19	514	e205	e180	e160	e137	e360	1510	2960	824	853	805	929
20	543	e210	e170	e160	e132	e550	1450	2530	782	762	723	853
21	485	e240	e160	e160	e130	e900	1390	2180	740	702	660	784
22	424	e270	e160	e160	e129	e3000	1380	1910	702	650	607	733
23	396	e300	e150	e160	e131	e3300	1350	1680	673	617	571	692
24	368	e325	e150	e160	e134	e3350	1280	1490	647	582	541	648
25	351	e350	e150	e160	e135	e3330	1240	1340	648	583	597	617
26	353	e370	e150	e155	e138	e3300	1170	1220	669	577	669	602
27	352	e400	e150	e150	e140	e3330	1110	1130	667	594	630	590
28	375	e440	e150	e145	e142	3450	1060	1040	661	699	579	594
29	376	e480	e150	e145	---	3580	1000	971	640	685	538	621
30	380	e500	e150	e140	---	3870	942	878	628	639	501	593
31	372	---	e150	e140	---	3900	---	820	---	584	475	---
TOTAL	7815	9019	7825	4770	3906	38977	61692	59572	27895	31290	20208	39861
MEAN	252	301	252	154	140	1257	2056	1922	930	1009	652	1329
MAX	543	500	525	160	149	3900	3700	4040	1530	2300	1200	3410
MIN	67	200	150	140	129	131	942	737	628	569	447	470
AC-FT	15500	17890	15520	9460	7750	77310	122400	118200	55330	62060	40080	79060
CFSM	.16	.19	.16	.10	.09	.81	1.32	1.23	.60	.65	.42	.85
IN.	.19	.22	.19	.11	.09	.93	1.47	1.42	.67	.75	.48	.95

e Estimated

05064000 WILD RICE RIVER AT HENDRUM, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	134	124	75.6	55.4	64.1	325	1198	658	454	400	161	135
MAX	744	784	252	188	767	1485	5115	2137	1776	3136	1833	1329
(WY)	1972	1972	1999	1998	1998	1966	1997	1998	1962	1975	1993	1999
MIN	.44	3.32	1.08	.092	.22	.46	106	56.1	9.15	8.82	1.07	.18
(WY)	1949	1949	1977	1977	1977	1949	1981	1977	1952	1951	1977	1948

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1944 - 1999
ANNUAL TOTAL	300299	312830	
ANNUAL MEAN	823	857	309 ^a
HIGHEST ANNUAL MEAN			857 1999
LOWEST ANNUAL MEAN			28.9 1977
HIGHEST DAILY MEAN	6520	4040	10300 Apr 18 1997
LOWEST DAILY MEAN	66	67	.00 Sep 13 1948
ANNUAL SEVEN-DAY MINIMUM	68	75	.00 Sep 27 1948
INSTANTANEOUS PEAK FLOW		4080 ^b	10600 ^c Apr 18 1997
INSTANTANEOUS PEAK STAGE		22.75 ^d	33.85 ^d Apr 18 1997
ANNUAL RUNOFF (AC-FT)	595600	620500	223700
ANNUAL RUNOFF (CFSM)	.53	.55	.20
ANNUAL RUNOFF (INCHES)	7.16	7.46	2.69
10 PERCENT EXCEEDS	2530	2300	762
50 PERCENT EXCEEDS	368	541	95
90 PERCENT EXCEEDS	100	140	16

a Median of annual mean discharges is 270 ft³/s.
 b Gage height, 20.83 ft.
 c From measurement of discharge.
 d Backwater from Red River of the North.

