

RED RIVER OF THE NORTH BASIN

05064000 WILD RICE RIVER AT HENDRUM, MN

LOCATION.--Lat 4716'05", long 9647'50", in SE 1 / 4 SE 1 / 4 sec. 19, T.144 N., R.48 W., Norman County, Hydrologic Unit 09020108, on right bank 30 ft downstream from highway bridge, 0.5 mi east of Hendrum and 4 mi upstream from mouth.

DRAINAGE AREA.--1,560 mi², (revised).

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 mean 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, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	312	e290	e210	e193	e4900	1100	477	618	5210	380	94
2	130	316	e275	e205	e190	e4350	1080	459	590	4890	361	89
3	124	286	e275	e200	e189	e3900	1070	443	555	4630	344	95
4	121	296	e265	e195	e190	e3200	1030	431	515	4110	332	115
5	125	337	e255	e190	e192	e2650	963	423	482	3240	317	107
6	125	329	e250	e180	e192	e2200	913	411	461	2530	294	98
7	128	336	e245	e177	e190	e1800	937	400	449	2180	279	90
8	145	334	e245	e175	e188	e1300	996	393	425	2380	267	83
9	174	e350	e240	e175	e188	e1100	995	398	418	2610	240	78
10	203	e335	e240	e175	e190	902	977	407	399	2440	222	75

11	229	e320	e235	e175	e188	848	923	416	393	2320	210	75
12	237	e310	e235	e175	e185	833	852	641	402	2140	199	75
13	276	e305	e235	e180	e190	804	801	2520	413	1870	185	77
14	406	e300	e235	e180	e195	814	890	3360	450	1590	173	80
15	572	e300	e240	e185	e200	773	1020	3420	484	1610	159	82
16	617	e290	e240	e187	e215	769	959	4230	492	1570	149	82
17	585	e280	e235	e190	e230	730	863	5380	545	1200	142	83
18	537	e280	e235	e190	e250	694	777	6290	512	946	135	77
19	491	e280	e230	e190	e275	682	718	6520	1440	818	137	74
20	458	e275	e225	e190	e300	674	673	6240	2850	738	134	72
21	425	e270	e220	e190	e360	691	637	5600	3590	666	129	70
22	391	e270	e215	e192	e480	738	603	4550	3840	602	128	71
23	372	e275	e215	e190	e690	770	587	3380	3870	557	135	68
24	366	e280	e215	e190	e1100	754	571	2540	3780	518	124	67
25	362	e285	e220	e190	e2000	708	564	1870	3650	485	119	66
26	e355	e290	e220	e188	e3200	696	554	1330	3580	470	113	67
27	e350	e295	e225	e188	4520	663	540	944	3610	453	108	69
28	343	e300	e225	e190	5000	691	525	764	4140	437	107	69
29	334	e300	e223	e190	---	714	509	720	4760	424	103	69
30	315	e295	e220	e190	---	876	496	664	5170	408	100	68
31	311	---	e215	e192	---	1120	---	635	---	389	99	---
TOTAL	9734	9031	7338	5814	21480	42344	24123	66256	52883	54431	5924	2385
MEAN	314	301	237	188	767	1366	804	2137	1763	1756	191	79.5
MAX	617	350	290	210	5000	4900	1100	6520	5170	5210	380	115
MIN	121	270	215	175	185	663	496	393	393	389	99	66
AC-FT	19310	17910	14550	11530	42610	83990	47850	131400	104900	108000	11750	4730
CFSM	.20	.19	.15	.12	.48	.85	.50	1.34	1.10	1.10	.12	.05
IN.	.23	.21	.17	.14	.50	.98	.56	1.54	1.23	1.27	.14	.06

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	132	120	72.2	53.6	62.7	308	1183	635	446	389	152	114
MAX	744	784	237	188	767	1485	5115	2137	1776	3136	1833	824
(WY)	1972	1972	1998	1998	1998	1966	1997	1998	1962	1975	1993	1973
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 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1944 - 1998				
ANNUAL TOTAL	309538		301743				
ANNUAL MEAN	848		827		298a		
HIGHEST ANNUAL MEAN					827		1998
LOWEST ANNUAL MEAN					28.9		1977
HIGHEST DAILY MEAN	10300	Apr 18	6520	May 19	10300	Apr 18	1997
LOWEST DAILY MEAN	114	Feb 27	66	Sep 25	.00	Sep 13	1948
ANNUAL SEVEN-DAY MINIMUM	116	Feb 21	68	Sep 23	.00	Sep 27	1948
INSTANTANEOUS PEAK FLOW			6550	May 19	10600b	Apr 18	1997
INSTANTANEOUS PEAK STAGE			26.91	May 19	33.85c	Apr 18	1997
ANNUAL RUNOFF (AC-FT)	614000		598500		216200		
ANNUAL RUNOFF (CFSM)	.53		.52		.19		
ANNUAL RUNOFF (INCHES)	7.20		7.02		2.53		
10 PERCENT EXCEEDS	1920		2530		738		

50 PERCENT EXCEEDS	272		335		92		
90 PERCENT EXCEEDS	125		117		16		

- a Median of annual mean discharges is 260 ft³/s.
- b From measurement of discharge.
- c Backwater from Red River of the North.

