

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 (NGVD of 1929, levels by U.S. Army Corps of Engineers). Prior to July 18, 1989, nonrecording gage at same site and datum.

REMARKS.--Records fair 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	330	4,110	e590	e220	e170	e148	4,310	532	1,280	e530	141	122
2	285	4,420	e580	e216	e174	e149	3,920	515	1,190	e530	137	109
3	258	4,450	e580	e212	e178	e150	3,650	485	1,070	e525	133	109
4	240	4,250	e570	e208	e176	e153	3,210	465	1,080	e515	126	103
5	218	3,820	e560	e204	e178	e158	2,650	439	1,170	e500	120	113
6	201	3,290	e550	e200	e172	e164	2,220	414	1,240	e485	115	994
7	188	2,700	e535	e196	e164	e160	1,870	399	1,710	e485	111	1,410
8	181	2,180	e530	e193	e152	e159	1,580	394	1,680	504	106	1,020
9	178	1,760	e520	e190	e154	e160	1,400	394	1,680	518	104	665
10	168	1,500	e510	e187	e156	e164	1,280	536	1,770	489	101	554
11	163	1,340	e500	e184	e160	e162	1,210	1,370	1,640	436	99	1,060
12	156	1,230	e490	e181	e163	e158	1,320	1,110	1,840	400	99	875
13	149	1,150	e470	e178	e165	e156	1,730	849	2,540	388	95	496
14	145	1,070	e405	e173	e163	e154	2,090	768	3,080	405	91	329
15	145	1,020	e350	e167	e160	e154	1,900	780	3,490	455	88	245
16	143	970	e340	e160	e158	e155	1,670	769	3,480	424	86	195
17	145	927	e335	e158	e156	e157	1,630	703	3,150	374	89	158
18	153	879	e330	e158	e155	e160	1,450	619	2,720	325	681	129
19	160	836	e330	e157	e153	e163	1,220	567	2,260	283	709	107
20	163	825	e325	e156	e152	e166	1,120	548	1,820	252	561	92
21	162	824	e320	e153	e151	e171	1,040	546	1,460	226	358	86
22	167	830	e275	e154	e150	e177	984	531	1,290	206	241	82
23	176	829	e240	e153	e149	e184	920	515	1,100	195	175	75
24	240	718	e235	e154	e149	e191	848	500	e876	185	137	71
25	611	e650	e232	e155	e149	e220	789	486	e710	188	135	67
26	933	e630	e228	e154	e148	e270	741	451	e590	187	473	66
27	967	e615	e225	e153	e148	e360	692	577	e530	176	707	66
28	912	e610	e223	e155	e148	e540	651	1,030	e505	170	649	66
29	881	e600	e223	e158	---	e1,000	603	1,230	e510	166	404	65
30	1,600	e595	e224	e161	---	e3,120	558	1,300	e520	160	240	67
31	3,230	---	e224	e165	---	4,250	---	1,320	---	151	154	---
TOTAL	13,648	49,628	12,049	5,413	4,451	13,633	49,256	21,142	47,981	10,833	7,465	9,596
MEAN	440	1,654	389	175	159	440	1,642	682	1,599	349	241	320
MAX	3,230	4,450	590	220	178	4,250	4,310	1,370	3,490	530	709	1,410
MIN	143	595	223	153	148	148	558	394	505	151	86	65
AC-FT	27,070	98,440	23,900	10,740	8,830	27,040	97,700	41,940	95,170	21,490	14,810	19,030
CFSM	0.28	1.06	0.25	0.11	0.10	0.28	1.05	0.44	1.03	0.22	0.15	0.21
IN.	0.33	1.18	0.29	0.13	0.11	0.33	1.17	0.50	1.14	0.26	0.18	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2005, BY WATER YEAR (WY)

MEAN	150	177	93.0	65.2	71.8	345	1,224	663	581	452	171	150
MAX	744	1,654	390	245	767	1,485	5,115	2,137	4,228	3,323	1,833	1,329
(WY)	(1972)	(2005)	(2001)	(2001)	(1998)	(1966)	(1997)	(1998)	(2002)	(2002)	(1993)	(1999)
MIN	0.44	3.32	1.08	0.09	0.22	0.46	106	56.1	9.15	8.82	1.07	0.18
(WY)	(1949)	(1949)	(1977)	(1977)	(1977)	(1949)	(1981)	(1977)	(1952)	(1951)	(1977)	(1948)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1944 - 2005	
ANNUAL TOTAL	187,109		245,095		a340	
ANNUAL MEAN	511		671		936	
HIGHEST ANNUAL MEAN					28.9	
LOWEST ANNUAL MEAN					10,300	
HIGHEST DAILY MEAN	4,770	Mar 29	4,450	Nov 3	10,300	Apr 18, 1997
LOWEST DAILY MEAN	56	Aug 28	65	Sep 29	b0.00	Sep 13, 1948
ANNUAL SEVEN-DAY MINIMUM	58	Aug 24	67	Sep 24	0.00	Sep 27, 1948
MAXIMUM PEAK FLOW			c4,490	Nov 3	d10,600	Apr 18, 1997
MAXIMUM PEAK STAGE			f23.63	Jun 16	f33.85	Apr 18, 1997
ANNUAL RUNOFF (AC-FT)	371,100		486,100		246,200	
ANNUAL RUNOFF (CFSM)	0.328		0.430		0.218	
ANNUAL RUNOFF (INCHES)	4.46		5.84		2.96	
10 PERCENT EXCEEDS	1,160		1,650		793	
50 PERCENT EXCEEDS	226		335		107	
90 PERCENT EXCEEDS	70		139		18	

- a Median of annual mean discharges is 300 ft³/s.
- b Many days, September to October 1948.
- c Gage height, 21.95 ft.
- d From measurement of discharge.
- e Estimated.
- f Backwater from Red River of the North.

