

## 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 mi<sup>2</sup>.

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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	66	e74	e71	e66	e93	3,860	306	1,650	109	161	71
2	49	60	e75	e71	e66	e95	2,930	291	1,770	103	125	65
3	49	69	e74	e70	e66	e97	2,230	276	1,570	100	107	60
4	48	64	e72	e70	e66	e99	1,690	265	1,350	103	94	58
5	48	59	e72	e71	e66	e102	1,240	252	1,170	109	85	57
6	47	69	e73	e72	e67	e105	1,020	242	1,040	173	80	106
7	47	58	e74	e72	e67	e108	877	228	925	178	93	665
8	49	54	e72	e73	e68	e112	790	211	798	190	156	1,330
9	52	56	e71	e73	e68	e115	724	208	647	198	152	1,400
10	49	57	e70	e73	e69	e118	663	196	505	189	139	1,160
11	51	59	e70	e72	e70	e120	607	215	401	208	148	842
12	56	62	e70	e72	e70	e121	555	569	337	527	150	617
13	55	62	e70	e72	e71	e123	514	1,230	295	851	130	491
14	54	61	e69	e72	e72	e127	487	1,630	273	596	114	375
15	51	62	e69	e72	e72	e132	463	1,300	263	412	98	291
16	50	70	e69	e72	e73	e139	443	865	251	290	87	260
17	52	77	e68	e71	e74	e145	430	677	236	281	80	243
18	54	83	e68	e70	e75	e160	421	621	213	435	74	267
19	56	83	e68	e71	e76	e175	451	630	198	344	68	270
20	54	85	e71	e72	e77	e190	502	606	184	243	65	239
21	53	84	e73	e72	e79	e220	520	519	172	199	63	213
22	54	70	e72	e71	e80	e240	508	450	160	166	60	216
23	55	66	e72	e71	e81	e295	482	409	153	147	58	283
24	52	e64	e72	e70	e82	e560	451	374	146	130	59	334
25	52	64	e73	e69	e84	e900	421	360	150	117	61	418
26	52	65	e74	e68	e86	e1,950	394	368	147	107	59	588
27	52	e69	e74	e67	e88	e3,000	375	380	140	96	58	592
28	54	e74	e74	e66	e90	e3,900	360	381	134	92	56	528
29	58	e76	e73	e65	e92	4,770	337	352	126	94	56	450
30	63	e75	e73	e65	---	4,760	318	488	116	183	56	383
31	65	---	e72	e65	---	4,520	---	1,450	---	225	60	---
TOTAL	1,630	2,023	2,221	2,181	2,161	27,591	25,063	16,349	15,520	7,195	2,852	12,872
MEAN	52.6	67.4	71.6	70.4	74.5	890	835	527	517	232	92.0	429
MAX	65	85	75	73	92	4,770	3,860	1,630	1,770	851	161	1,400
MIN	47	54	68	65	66	93	318	196	116	92	56	57
AC-FT	3,230	4,010	4,410	4,330	4,290	54,730	49,710	32,430	30,780	14,270	5,660	25,530
CFSM	0.03	0.04	0.05	0.05	0.05	0.57	0.54	0.34	0.33	0.15	0.06	0.28
IN.	0.04	0.05	0.05	0.05	0.05	0.66	0.60	0.39	0.37	0.17	0.07	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2004, BY WATER YEAR (WY)

MEAN	145	152	88.0	63.4	70.4	344	1,217	662	565	453	170	147
MAX	744	1,305	390	245	767	1,485	5,115	2,137	4,228	3,323	1,833	1,329
(WY)	(1972)	(2001)	(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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1944 - 2004	
ANNUAL TOTAL	98,589		117,658			
ANNUAL MEAN	270		321		a334	
HIGHEST ANNUAL MEAN					936	2002
LOWEST ANNUAL MEAN					28.9	1977
HIGHEST DAILY MEAN	2,970	Jun 27	4,770	Mar 29	10,300	Apr 18, 1997
LOWEST DAILY MEAN	38	Sep 9	47	Oct 6	a0.00	Sep 13, 1948
ANNUAL SEVEN-DAY MINIMUM	39	Sep 5	48	Oct 1	0.00	Sep 27, 1948
MAXIMUM PEAK FLOW			4,800	Mar 29	d10,600	Apr 18, 1997
MAXIMUM PEAK STAGE			22.75	Mar 29	c33.85	Apr 18, 1997
ANNUAL RUNOFF (AC-FT)	195,600		233,400		242,100	
ANNUAL RUNOFF (CFSM)	0.173		0.206		0.214	
ANNUAL RUNOFF (INCHES)	2.35		2.81		2.91	
10 PERCENT EXCEEDS	602		664		770	
50 PERCENT EXCEEDS	92		98		103	
90 PERCENT EXCEEDS	49		58		17	

- a Median of annual mean discharges is 300 ft<sup>3</sup>/s.
- b Many days, September to October 1948.
- c From measurement of discharge.
- d Backwater from Red River of the North.
- e Estimated.

