

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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	231	264	e200	e130	e89	e88	579	369	348	1,320	135	45
2	229	e250	e200	e128	e89	e87	551	345	332	1,050	131	45
3	226	e230	e200	e125	e88	e87	476	339	309	904	124	45
4	224	e220	e200	e123	e88	e87	436	336	287	806	121	42
5	230	e220	e200	e122	e89	e86	418	348	275	714	112	41
6	247	e220	e200	e122	e90	e86	350	373	258	581	109	41
7	268	e220	e200	e120	e92	e86	352	415	286	494	101	40
8	277	e220	e205	e120	e93	e86	419	416	549	445	95	40
9	278	e220	e210	e120	e94	e86	432	426	471	420	89	38
10	292	e220	e218	e119	e95	e85	410	604	377	429	84	38
11	295	e218	e220	e118	e95	e85	393	853	382	477	80	38
12	271	e216	e222	e110	e94	e85	392	908	482	506	75	41
13	264	e212	e225	e105	e94	e86	388	835	506	568	70	46
14	259	e208	e225	e98	e94	e90	377	735	601	519	66	47
15	250	e202	e222	e98	e94	e105	381	631	589	465	63	46
16	247	e200	e225	e97	e93	e150	397	575	482	423	60	45
17	246	e200	e210	e97	e93	e300	419	524	422	368	58	45
18	249	e205	e210	e96	e93	e440	439	488	380	318	56	45
19	256	e215	e195	e95	e92	e625	467	634	372	282	54	45
20	262	e220	e180	e94	e92	e850	538	807	334	258	51	51
21	268	e220	e170	e93	e92	e1,050	593	932	291	240	49	65
22	269	e218	e155	e93	e91	e1,150	577	869	268	228	47	66
23	264	e216	e152	e92	e91	e1,150	531	728	404	216	47	63
24	263	e212	e150	e92	e90	e1,100	478	639	1,720	197	47	63
25	263	e215	e150	e91	e90	e1,000	452	587	2,250	189	47	61
26	263	e220	e150	e91	e90	e900	446	522	2,600	179	46	61
27	260	e210	e150	e91	e89	e800	436	463	2,970	172	45	56
28	262	e200	e150	e90	e88	e740	413	424	2,960	167	44	55
29	268	e200	e148	e90	---	e690	400	400	2,480	157	45	51
30	274	e200	e145	e90	---	e640	393	376	1,770	148	45	50
31	264	---	e142	e90	---	577	---	369	---	142	45	---
TOTAL	8,019	6,491	5,829	3,240	2,562	13,477	13,333	17,270	25,755	13,382	2,241	1,455
MEAN	259	216	188	105	91.5	435	444	557	858	432	72.3	48.5
MAX	295	264	225	130	95	1,150	593	932	2,970	1,320	135	66
MIN	224	200	142	90	88	85	350	336	258	142	44	38
AC-FT	15,910	12,870	11,560	6,430	5,080	26,730	26,450	34,260	51,090	26,540	4,450	2,890
CFSM	0.17	0.14	0.12	0.07	0.06	0.28	0.28	0.36	0.55	0.28	0.05	0.03
IN.	0.19	0.15	0.14	0.08	0.06	0.32	0.32	0.41	0.61	0.32	0.05	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2003, BY WATER YEAR (WY)

MEAN	147	153	88.2	63.2	70.3	334	1,223	665	565	457	171	143
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	0.092	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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1944 - 2003	
ANNUAL TOTAL	336,572		113,054			
ANNUAL MEAN	922		310		a334	
HIGHEST ANNUAL MEAN					936	2002
LOWEST ANNUAL MEAN					28.9	1977
HIGHEST DAILY MEAN	8,660	Jun 28	2,970	Jun 27	10,300	Apr 18, 1997
LOWEST DAILY MEAN	120	Mar 8	38	Sep 9-11	b0.00	Sep 13, 1948
ANNUAL SEVEN-DAY MINIMUM	121	Mar 6	39	Sep 5	0.00	Sep 27, 1948
MAXIMUM PEAK FLOW			3,060	Jun 28	c10,600	Apr 18, 1997
MAXIMUM PEAK STAGE			17.84	Jun 28	d33.85	Apr 18, 1997
ANNUAL RUNOFF (AC-FT)	667,600		224,200		242,200	
ANNUAL RUNOFF (CFSM)	0.59		0.20		0.21	
ANNUAL RUNOFF (INCHES)	8.03		2.70		2.91	
10 PERCENT EXCEEDS	2,180		602		773	
50 PERCENT EXCEEDS	290		216		103	
90 PERCENT EXCEEDS	141		56		17	

- a Median of annual mean discharges is 290 ft³/s.
- b Many days, Sep.-Oct. 1948.
- c From measurement of discharge.
- d Backwater from Red River of the North.
- e Estimated.

