

05067500 MARSH RIVER NEAR SHELLY, MN

LOCATION.--Lat 47°24'45", long 96°45'50", in NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3, T.145 N., R.48W., Norman County, Hydrologic Unit 09020107, on left bank, 10 ft downstream of County Road 129 bridge, 3.8 mi southeast of Shelly and 10 mi upstream from mouth.

DRAINAGE AREA.--220 mi².

PERIOD OF RECORD.--March 1944 to September 1983 and April 1985 to current year (no winter records since 1989). Monthly discharge only for March 1944, published in WSP 1308. Operated as a high-flow partial-record station October 1983 to March 1985.

GAGE.--Water-stage recorder. Datum of gage is 841.14 ft above sea level (NGVD of 1929, levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1965, nonrecording gage at datum 3.0 ft higher. Oct. 1, 1965 to May 17, 1989, nonrecording gage at present site and datum.

REMARKS.--Records good except those for discharges below 1.0 ft³/s and those for estimated daily discharges, which are poor. Large part of high flow of Wild Rice River diverted into Marsh River Basin at overflow section 4.6 mi east of Ada. Another diversion from Wild Rice 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 pollution from Ada sewage plant effluent.

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	0.88	---	---	---	---	e0.00	28	8.8	11	173	1.7	0.00
2	0.86	---	---	---	---	e0.00	22	9.0	10	120	1.4	0.00
3	0.86	---	---	---	---	e0.00	14	8.5	9.1	103	1.2	0.21
4	0.98	---	---	---	---	e0.00	12	15	8.3	65	0.89	0.59
5	1.0	---	---	---	---	e0.00	17	37	7.6	40	0.99	0.54
6	1.3	---	---	---	---	e0.00	14	50	7.5	27	0.93	0.36
7	1.6	---	---	---	---	e0.00	14	41	8.7	21	1.6	0.20
8	1.6	---	---	---	---	e0.00	13	32	10	17	2.2	0.10
9	1.5	---	---	---	---	e0.00	13	34	11	16	1.6	0.00
10	2.9	---	---	---	---	e0.00	13	156	12	18	1.1	0.00
11	2.4	---	---	---	---	e0.00	10	147	21	18	0.76	0.00
12	2.1	---	---	---	---	e0.00	9.9	115	29	20	0.60	0.00
13	2.0	---	---	---	---	e0.00	9.0	89	40	18	0.34	e0.10
14	e2.0	---	---	---	---	e0.10	7.8	66	37	16	0.20	e0.05
15	e1.9	---	---	---	---	e0.75	6.9	45	43	17	0.03	e0.05
16	e1.8	---	---	---	---	e2.0	6.9	31	34	15	0.00	e0.05
17	e1.7	---	---	---	---	e7.0	7.0	23	23	13	0.00	e0.03
18	e2.4	---	---	---	---	e18	8.4	20	19	11	0.00	0.03
19	e2.9	---	---	---	---	e50	11	77	15	9.5	0.00	0.00
20	e3.4	---	---	---	---	e120	15	104	13	8.6	0.00	0.00
21	e3.5	---	---	---	---	e150	18	99	11	7.6	0.00	0.00
22	3.6	---	---	---	---	e210	19	70	12	7.2	0.00	0.28
23	3.4	---	---	---	---	263	18	45	12	6.6	0.00	0.61
24	2.8	---	---	---	---	216	16	31	12	5.2	0.00	0.59
25	2.5	---	---	---	---	151	16	25	229	3.8	0.00	0.58
26	2.9	---	---	---	---	119	14	41	816	2.9	0.00	0.52
27	3.0	---	---	---	---	74	11	94	808	2.2	0.00	0.26
28	3.4	---	---	---	---	63	10	39	603	2.0	0.00	0.13
29	3.4	---	---	---	---	41	8.9	19	418	1.7	0.00	0.13
30	e3.6	---	---	---	---	33	8.9	14	278	1.6	0.00	0.05
31	e3.6	---	---	---	---	30	---	13	---	1.7	0.00	---
TOTAL	71.78	---	---	---	---	1,547.85	391.7	1,598.3	3,568.2	788.6	15.54	5.46
MEAN	2.32	---	---	---	---	49.9	13.1	51.6	119	25.4	0.50	0.18
MAX	3.6	---	---	---	---	263	28	156	816	173	2.2	0.61
MIN	0.86	---	---	---	---	0.00	6.9	8.5	7.5	1.6	0.00	0.00
AC-FT	142	---	---	---	---	3,070	777	3,170	7,080	1,560	31	11
CFSM	0.01	---	---	---	---	0.23	0.06	0.23	0.54	0.12	0.00	0.00
IN.	0.01	---	---	---	---	0.26	0.07	0.27	0.60	0.13	0.00	0.00

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

MEAN	13.0	11.0	5.60	3.79	3.29	76.9	296	122	113	79.8	18.3	12.3
MAX	130	102	77.1	64.5	62.1	437	1,537	2,617	1,644	820	363	144
(WY)	(1952)	(1952)	(1951)	(1951)	(1951)	(1945)	(1950)	(1950)	(2002)	(1950)	(1949)	(1944)
MIN	0.000	0.000	0.000	0.000	0.000	0.000	0.078	0.87	0.000	0.000	0.000	0.000
(WY)	(1955)	(1956)	(1956)	(1946)	(1946)	(1964)	(1981)	(1980)	(1980)	(1961)	(1959)	(1954)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1944-2003	
ANNUAL MEAN					63.3	
HIGHEST ANNUAL MEAN					a543	1950
LOWEST ANNUAL MEAN					1.24	1977
HIGHEST DAILY MEAN	5,290	Jun 27	816	Jun 26	5,290	Jun 27 2002
LOWEST DAILY MEAN	0.49	Sep 22	0.00	bMar 1	0.00	cSep 4 1945
ANNUAL SEVEN-DAY MINIMUM	0.66	Sep 17	0.00	Mar 1	0.00	Sep 12 1945
MAXIMUM PEAK FLOW			882	Jun 26	d5,530	Jun 26 2002
MAXIMUM PEAK STAGE			12.34	Jun 26	f25.45	Apr 18, 1997
ANNUAL RUNOFF (AC-FT)					45,850	
ANNUAL RUNOFF (CFSM)					0.29	
ANNUAL RUNOFF (INCHES)					3.91	
10 PERCENT EXCEEDS					106	
50 PERCENT EXCEEDS					0.80	
90 PERCENT EXCEEDS					0.00	

- a Based on complete years only, 1945-83, 86-89.
- b Many days.
- c Many days, most years.
- d Gage-height, 24.35 ft.
- e Estimated.
- f From floodmark.

