05067500 MARSH RIVER NEAR SHELLY, MN

LOCATION.--Lat $47^{\circ}24'45^{\circ}$, long $96^{\circ}45'50^{\circ}$, 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

REMARKS.--Records good except 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,	in CFS,		AR OCTOB MEAN VA		O SEPTEM	BER 2002			
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.34	e11					e20	16	14	1050	29	73
2	e0.34	e13					e19	16	7.4	e400	25	55
3	e0.30	e19					e17	15	4.6	e300	20	37
4	e0.28	e23					e15	12	2.8	e200	17	24
5	e0.26	e30					e15	11	2.2	e140	15	16
3	C0.20	230					CIS		2.2	CIIO	13	10
6	e0.24	e34					e16	12	2.9	e90	15	8.9
7	e0.22	e32					e19	14	2.4	e55	14	5.7
8	e0.20	e26					e28	16	1.7	45	12	3.4
9	e0.20	e23					34	25	661	41	10	2.6
10	e0.28	e21					36	48	2420	950	9.1	2.4
11	e0.30	e17					35	67	3480	2110	11	2.1
12	e0.30	e14					32	71	4580	2070	14	1.6
13	e0.18	e12					32	58	4370	1580	15	1.4
14	e0.16	e9.0					32	47	3260	1180	13	1.2
15	e0.10	e7.0					28	38	2260	783	11	0.93
13	60.13	67.0					20	30	2200	703	11	0.55
16	e0.12	6.6					23	35	1400	383	9.3	0.82
17	e0.10	5.9					17	31	692	257	11	0.71
18	e0.03	5.4					15	26	378	222	14	0.71
19	e0.03	4.2					15	22	296	171	11	0.83
20	e0.03	4.1					16	18	275	144	8.4	0.64
21	e0.08	3.7					13	15	281	134	6.7	0.54
22	e0.08	3.7					14	11	237	330	5.9	0.49
23	e0.00	3.6					14	7.4	708	218	5.6	0.70
24	e2.0	3.0					13	8.4	1680	117	5.1	0.70
25	e4.8	2.7					16	9.0	2880	74	4.1	0.72
23	C4.0	2.7					10	٥.0	2000	7-2	4.1	0.75
26	e6.5	1.9					15	7.3	5190	125	3.5	0.83
27	e6.0	1.7					11	5.8	5290	144	4.0	0.82
28	e3.5	1.5					10	6.5	4140	95	16	0.84
29	e5.0	1.7					14	12	2870	61	20	0.83
30	e7.0	2.5					16	22	1930	42	40	0.87
31	e9.0							19		34	70	
TOTAL	48.02	342.7					600	721.4	49316.0	13545	464.7	246.37
MEAN	1.549	11.42					20.00	23.27	1644	436.9	14.99	8.212
MAX	9.0	34					36	71	5290	2110	70	73
MIN	0.03	1.5					10	5.8	1.7	34	3.5	0.49
AC-FT	95	680					1190	1430	97820	26870	922	489
CFSM	0.01	0.05					0.09	0.11	7.47	1.99	0.07	0.04
IN.	0.01	0.06					0.10	0.12	8.34	2.29	0.08	0.04
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RED RIVER OF THE NORTH BASIN--Continued

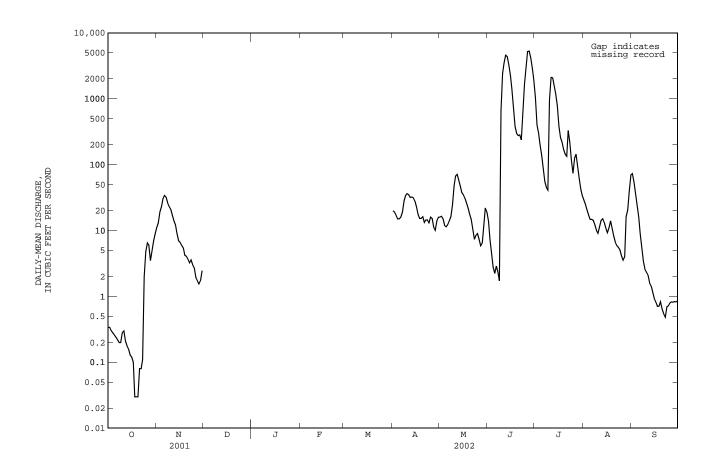
05067500 MARSH RIVER NEAR SHELLY, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2002, BY WATER YEAR (WY)

OCT NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN 13.22 10.99 MAX 130 102 (WY) 1952 1952 MIN 0.000 0.000 (WY) 1955 1956	5.602 77.1 1951 0.000 1956	3.793 64.5 1951 0.000 1946	3.294 62.1 1951 0.000 1946	77.47 437 1945 0.000 1964	301.1 1537 1950 0.078 1981	122.9 2617 1950 0.87 1980	112.5 1644 2002 0.000 1980	80.71 820 1950 0.000 1961	18.58 363 1949 0.000 1959	12.52 144 1944 0.000 1954
SUMMARY STATISTICS	FOR	2001 CALEN	DAR YEAR	F	OR 2002 WA	TER YEAR		WATER YEAR	RS 1944 -	2002
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE ANNUAL RUNOFF (AC-FT) ANNUAL RUNOFF (CFSM) ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS		2350 0.00 0.00	Apr 10 Aug 22 Aug 22		5290 0.03 0.07 5530 24.90	Oct 17 Jun 260		0.00 5530c	4 Jun 27 0b Sep 4 0 Sep 12 Jun 26 5d Apr 18	1945 1945 2002

Based on complete years only, 1945-83, 86-89.





a b c d e Many days, most years. Gage-height, 24.35 ft. From floodmark. Estimated.