

MINNESOTA RIVER BASIN

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05292704 NORTH FORK YELLOW BANK RIVER NEAR ODESSA, MN

LOCATION.--Lat 45°11'21", long 96°24'54", in NW¹/₄ NW¹/₄ SW¹/₄ sec.22, T.120 N., R.46 W., Lac qui Parle County, Hydrologic Unit 07020001, on left bank at upstream side of County Highway #7 bridge, 11.0 mi east-southeast of Milbank, SD, 6.4 mi southwest of Odessa, and 2.9 mi upstream from mouth.

DRAINAGE AREA.--208 mi².

PERIOD OF RECORD.--May 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,020 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	6.8	e5.5	e4.4	e3.0	e15	506	54	24	4.9	1.1	0.78
2	4.5	7.2	e6.0	e4.5	e3.2	e14	311	42	19	4.1	0.80	0.75
3	3.9	7.1	e6.0	e5.0	e3.5	e14	212	35	15	4.9	1.2	0.68
4	4.2	7.1	e6.0	e5.0	e4.0	e13	161	32	14	4.3	1.8	0.63
5	4.5	7.9	e6.0	e5.0	e6.0	e13	137	27	13	3.6	1.5	0.64
6	4.4	8.2	e6.0	e5.0	e10	e12	98	24	12	2.8	1.8	0.63
7	4.3	8.5	e5.5	e5.0	e15	e12	108	24	11	2.5	2.0	0.63
8	5.0	8.0	e5.5	e6.0	e20	e11	157	31	11	2.5	1.3	0.55
9	5.5	6.2	e5.5	e7.0	e30	e10	151	43	10	2.3	1.0	0.54
10	5.8	6.4	e5.5	e8.0	e30	e15	110	68	9.6	2.2	0.96	0.76
11	6.0	6.4	e5.5	e8.0	e40	e20	96	63	8.9	2.5	0.89	0.94
12	6.1	6.3	e5.8	e7.5	e50	e25	87	61	8.1	2.3	1.3	0.75
13	6.6	6.3	e5.8	e7.5	e65	e35	78	100	8.0	1.7	1.1	0.65
14	6.5	6.4	e5.8	e7.5	80	e50	72	98	7.8	1.4	0.89	0.65
15	6.5	6.4	e5.5	e7.5	92	e48	71	67	7.4	1.3	0.78	0.71
16	6.5	6.5	e5.5	e6.0	100	e48	60	51	7.1	1.2	0.96	0.67
17	6.5	6.5	e5.5	e5.5	96	e50	52	40	6.5	1.1	0.71	0.56
18	6.7	7.1	e5.2	e5.5	99	e50	46	34	6.2	1.3	0.64	0.56
19	7.1	6.9	e5.0	e5.5	132	e48	41	29	6.1	1.4	0.65	0.58
20	5.6	6.7	e5.0	e5.5	154	e45	35	26	5.8	1.7	0.77	0.59
21	5.4	6.6	e5.0	e5.5	159	e40	33	24	8.4	1.6	2.3	0.58
22	5.3	6.6	e4.5	e5.5	134	e45	34	22	13	1.9	2.4	0.58
23	6.0	6.6	e4.0	e5.0	100	e50	32	22	13	1.6	1.5	0.51
24	6.1	e6.0	e4.0	e4.5	e40	e45	32	21	10	1.5	1.3	0.54
25	6.1	e5.8	e4.0	e4.5	e20	e40	31	20	9.0	1.6	1.0	0.64
26	6.0	e5.5	e4.0	e4.0	e20	e40	26	18	10	1.4	0.83	0.68
27	6.0	e5.5	e4.0	e3.3	e17	e50	26	18	12	2.2	0.90	0.71
28	6.2	e5.5	e4.0	e3.0	e15	e100	32	18	8.6	2.5	0.96	0.83
29	6.4	e5.5	e4.0	e3.0	---	e250	41	20	7.4	1.6	0.92	0.75
30	6.5	e5.5	e4.0	e3.0	---	743	56	45	6.0	1.4	0.90	0.90
31	6.8	---	e4.0	e3.0	---	1100	---	45	---	1.1	0.96	---
TOTAL	177.4	198.0	157.6	165.2	1537.7	3051	2932	1222	307.9	68.4	36.12	19.97
MEAN	5.723	6.600	5.084	5.329	54.92	98.42	97.73	39.42	10.26	2.206	1.165	0.666
MAX	7.1	8.5	6.0	8.0	159	1100	506	100	24	4.9	2.4	0.94
MIN	3.9	5.5	4.0	3.0	3.0	10	26	18	5.8	1.1	0.64	0.51
AC-FT	352	393	313	328	3050	6050	5820	2420	611	136	72	40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	
MEAN	43.47	26.42	13.42	7.938	39.06	160.3	298.6	91.10	83.04	110.3	23.18	15.82
MAX	342	122	32.7	19.5	166	422	977	267	212	501	107	72.5
(WY)	1996	1996	1996	1996	1996	1997	1997	1995	1992	1993	1995	1995
MIN	0.94	2.42	0.57	0.34	0.56	9.73	12.7	9.14	7.20	2.21	0.79	0.48
(WY)	2001	2001	2001	2001	2001	2001	2000	1992	2000	2002	2000	2000

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002	
ANNUAL TOTAL	37306.36		9873.29		76.00a	
ANNUAL MEAN	102.2		27.05		134	
HIGHEST ANNUAL MEAN					7.33	
LOWEST ANNUAL MEAN					5000	
HIGHEST DAILY MEAN	5000	Apr 8	1100	Mar 31	5000	Apr 8 2001
LOWEST DAILY MEAN	0.10	Jan 2	0.51	Sep 23	0.10	Jan 2 2001
ANNUAL SEVEN-DAY MINIMUM	0.18	Jan 1	0.56	Sep 18	0.13	Dec 28 2000
MAXIMUM PEAK FLOW			1410	Mar 31	6840b	Apr 8 2001
MAXIMUM PEAK STAGE			11.71	Mar 31	18.02c	Mar 29 1997
ANNUAL RUNOFF (AC-FT)	74000		19580		55060	
10 PERCENT EXCEEDS	184		60		150	
50 PERCENT EXCEEDS	6.0		6.2		16	
90 PERCENT EXCEEDS	0.50		0.89		2.7	

- a Median of annual mean discharges, 97 ft³/s.
- b Gage height, 16.72 ft, backwater from ice.
- c Backwater from ice.
- e Estimated.



