

MINNESOTA RIVER BASIN--Continued

05293000 YELLOW BANK RIVER NEAR ODESSA, MN

LOCATION.--Lat 45°13'35", long 96°21'12", in SW<sup>1</sup>/<sub>4</sub>SW<sup>1</sup>/<sub>4</sub> sec. 6, T. 120 N., R. 45 W., Lac qui Parle County, Hydrologic Unit 07020001, on left bank 600 ft downstream from highway bridge, 2.5 mi southwest of Odessa, and 4.5 mi upstream from mouth.

DRAINAGE AREA.--459 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1388: 1947(M), 1950. WRIR 97-4249: Drainage area.

REVISIONS.-- Daily-mean discharge for Sept. 30, 1995 changed to 105 ft<sup>3</sup>/s.

GAGE.--Water-stage recorder. Datum of gage is 953.34 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Aug. 28, 1940, nonrecording gage at site 150 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair to poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 18	--	394	4.82 <sub>a</sub>	Jun 11	0100	*1,430	*9.41

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	77	149	e21	e11	e135	136	83	78	92	21	11
2	7.1	69	141	e20	e11	e150	139	78	75	81	19	11
3	7.6	59	135	e18	e12	e150	135	74	67	75	18	12
4	12	53	125	e17	e11	e145	141	73	61	65	17	22
5	19	48	114	e15	e11	e140	148	78	59	58	16	41
6	18	43	103	e14	e12	e130	172	81	54	52	15	111
7	28	41	96	e13	e13	e125	227	107	49	47	14	92
8	29	39	e97	e12	e15	e120	277	164	57	56	14	64
9	26	38	e95	e11	e17	e117	240	186	185	53	14	44
10	20	e50	e93	e11	e25	e114	205	183	860	46	14	30
11	16	e69	e89	e10	e52	e110	197	169	1130	41	13	23
12	14	49	e85	e10	e53	e110	210	157	636	37	12	19
13	13	38	77	e10	e52	e115	255	150	417	34	12	16
14	12	34	74	e10	e54	e120	252	142	300	31	12	14
15	12	46	63	e10	e62	e125	219	139	235	29	11	13
16	16	64	60	e10	e65	e140	193	195	192	32	11	13
17	38	65	58	e11	e64	143	178	320	165	54	10	12
18	114	75	58	e11	e64	179	167	360	149	185	9.9	11
19	163	85	e50	e11	e63	189	158	300	141	158	9.6	10
20	140	157	e35	e11	e62	186	151	270	134	110	9.5	9.7
21	107	165	e23	e11	e62	173	145	228	135	73	9.4	9.1
22	87	163	e22	e11	e63	163	138	199	131	57	9.4	8.9
23	70	143	e21	e11	e65	148	126	178	124	49	9.2	8.5
24	57	153	e21	e11	e64	136	114	164	108	41	9.1	8.2
25	51	179	e21	e11	e68	126	103	152	112	35	9.0	8.5
26	44	194	e22	e11	e78	120	96	142	112	31	8.7	8.8
27	42	194	e23	e11	e86	109	94	131	95	30	8.1	8.5
28	41	182	e24	e11	e105	124	91	110	88	29	9.9	8.2
29	47	171	e22	e11	---	136	88	96	83	25	10	8.5
30	52	158	e22	e11	---	138	87	86	84	23	14	8.5
31	68	---	e22	e11	---	140	---	80	---	23	13	---
TOTAL	1376.9	2901	2040	377	1320	4256	4882	4875	6116	1752	381.8	664.4
MEAN	44.4	96.7	65.8	12.2	47.1	137	163	157	204	56.5	12.3	22.1
MAX	163	194	149	21	105	189	277	360	1130	185	21	111
MIN	6.2	34	21	10	11	109	87	73	49	23	8.1	8.2
AC-FT	2730	5750	4050	748	2620	8440	9680	9670	12130	3480	757	1320
CFSM	.10	.21	.14	.03	.10	.30	.35	.34	.44	.12	.03	.05
IN.	.11	.24	.17	.03	.11	.34	.40	.40	.50	.14	.03	.05

a From highwater mark.  
e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	25.6	24.9	13.1	7.57	16.8	176	268	110	106	67.0	30.8	17.5
MAX	588	256	86.3	68.0	147	693	1614	652	577	741	281	273
(WY)	1996	1996	1996	1994	1998	1996	1997	1972	1992	1993	1991	1985
MIN	.31	.44	.32	.090	.001	1.59	9.13	2.94	1.83	.27	.088	.083
(WY)	1941	1977	1977	1977	1977	1965	1981	1981	1976	1976	1976	1976

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1940 - 1999
ANNUAL TOTAL	33409.8	30942.1	
ANNUAL MEAN	91.5	84.8	72.0 <sup>a</sup>
HIGHEST ANNUAL MEAN			237
LOWEST ANNUAL MEAN			3.98
HIGHEST DAILY MEAN	1100	Feb 25	6640
LOWEST DAILY MEAN	5.6	Sep 30	.00 <sup>b</sup>
ANNUAL SEVEN-DAY MINIMUM	6.2	Sep 25	8.5
INSTANTANEOUS PEAK FLOW			1430
INSTANTANEOUS PEAK STAGE			9.41
INSTANTANEOUS LOW FLOW			5.6
ANNUAL RUNOFF (AC-FT)	66270	61370	52160
ANNUAL RUNOFF (CFSM)	.20	.18	.16
ANNUAL RUNOFF (INCHES)	2.71	2.51	2.13
10 PERCENT EXCEEDS	194	178	153
50 PERCENT EXCEEDS	42	61	12
90 PERCENT EXCEEDS	9.4	11	1.0

a Median of annual mean discharges is 54 ft<sup>3</sup>/s.  
 b Many days, several years.  
 c From highwater mark.

