

MINNESOTA RIVER BASIN--Continued

05290000 LITTLE MINNESOTA RIVER NEAR PEEVER, SD

LOCATION.--Lat 45°36'05", long 96°52'18", in SW¹/₄ sec. 13, T.125 N., R.50 W., Roberts County, Hydrologic Unit 07020001, on Sisseton Indian Reservation, on right bank 2 mi northwest of town of Browns Valley, MN, 5.3 mi northeast of Peever, 7.2 mi downstream from Jorgenson River, and 8 mi upstream from Big Stone Lake.

DRAINAGE AREA.--438 mi².

PERIOD OF RECORD.--October 1939 to September 1981, October 1989 to current year.

REVISED RECORDS.--WSP 1308: 1943(M).

GAGE.--Water-stage recorder. Datum of gage is 1,002.20 ft above sea level (NGVD of 1929). Oct. 1, 1939 to Mar. 20, 1940, nonrecording gage at site 4.5 mi downstream at different datum. Mar. 21 to Apr. 12, 1940, nonrecording gage at site 100 ft downstream at present datum. April 13 to Aug. 27, 1940, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges and for the period April 12 to May 23, which are fair. Breakout flow into Lake Traverse (Red River of the North Basin) may occur 3.5 miles downstream when the stage exceeds approximately 8.0 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 3	0100	705	5.41	Apr 26	2030	1,110	6.36
Apr 8	0530	2,590	7.75	May 7	1430	1,240	6.55
Apr 12	2030	*3,180	*8.64				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	12	e6.8	e3.8	e6.8	e7.2	e569	438	96	28	46	3.3
2	2.3	18	e6.7	e3.9	e6.8	e7.2	659	397	103	26	37	2.9
3	2.2	16	e6.4	e4.0	e6.9	e7.2	661	360	100	23	32	2.7
4	2.2	13	e6.2	e4.4	e6.9	e7.3	606	324	91	22	27	2.5
5	2.7	11	e6.0	e4.8	e7.0	e7.5	490	300	85	20	23	2.3
6	2.9	11	e5.9	e5.2	e7.0	e7.6	447	336	83	19	19	2.1
7	2.5	13	e5.8	e5.7	e6.9	e7.5	1320	930	84	17	17	2.4
8	2.4	18	e5.7	e5.9	e6.7	e7.5	2440	814	84	16	15	2.9
9	2.6	21	e5.6	e5.9	e6.7	e7.7	2000	634	81	15	13	2.9
10	2.9	17	e5.4	e6.2	e6.7	e7.7	1420	485	76	14	12	2.7
11	2.9	16	e5.2	e6.3	e6.7	e7.6	1370	406	92	13	11	2.3
12	2.9	16	e5.0	e6.4	e6.7	e7.7	2500	354	89	12	10	2.1
13	2.9	17	e4.9	e6.5	e6.8	e7.8	2960	314	77	11	9.2	2.0
14	3.0	13	e4.7	e6.5	e6.8	e8.1	1980	284	107	11	8.5	2.3
15	3.0	16	e4.5	e6.5	e6.8	e8.5	1450	257	168	10	8.3	3.4
16	2.8	14	e4.4	e6.4	e7.0	e8.6	1110	231	128	10	8.1	4.3
17	2.9	14	e4.3	e6.4	e7.1	e8.6	837	208	104	11	7.3	6.3
18	3.1	14	e4.2	e6.4	e7.1	e8.7	672	187	93	9.5	7.3	5.1
19	3.3	14	e4.2	e6.6	e7.1	e8.9	586	169	88	8.6	6.9	6.3
20	3.5	e10	e4.1	e6.6	e7.1	e9.4	535	159	80	8.9	6.2	6.6
21	3.4	e8.3	e4.1	e6.8	e7.1	e13	502	158	70	13	5.9	7.0
22	3.4	e7.5	e4.1	e6.9	e7.0	e19	473	160	62	17	5.9	7.1
23	3.4	e7.4	e4.1	e6.8	e7.0	e32	456	151	56	18	5.7	7.3
24	3.4	e7.3	e4.1	e6.7	e7.0	e74	526	142	50	16	5.2	6.5
25	3.5	e7.2	e4.1	e6.8	e7.0	e138	837	137	45	15	5.1	5.3
26	3.9	e7.2	e4.1	e7.0	e7.0	e198	1030	131	42	13	5.0	4.7
27	4.5	e7.1	e4.0	e7.1	e7.0	e271	937	124	39	13	4.8	4.5
28	4.2	e7.0	e3.9	e7.2	e7.0	e320	703	118	37	54	4.5	4.1
29	4.1	e7.0	e3.9	e7.1	---	e347	555	109	35	126	4.2	3.7
30	4.6	e6.8	e3.9	e7.0	---	e365	472	101	32	80	4.0	3.6
31	5.4	---	e3.8	e6.9	---	e416	---	94	---	58	3.6	---
TOTAL	98.9	366.8	150.1	190.7	193.7	2351.3	31103	9012	2377	728.0	377.7	121.2
MEAN	3.19	12.2	4.84	6.15	6.92	75.8	1037	291	79.2	23.5	12.2	4.04
MAX	5.4	21	6.8	7.2	7.1	416	2960	930	168	126	46	7.3
MIN	2.1	6.8	3.8	3.8	6.7	7.2	447	94	32	8.6	3.6	2.0
AC-FT	196	728	298	378	384	4660	61690	17880	4710	1440	749	240
CFSM	.01	.03	.01	.01	.02	.17	2.37	.66	.18	.05	.03	.01
IN.	.01	.03	.01	.02	.02	.20	2.64	.77	.20	.06	.03	.01

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.22	7.23	4.28	1.80	4.90	118	238	106	74.0	54.8	13.1	5.20
MAX	73.9	74.5	61.2	11.4	57.0	603	1321	531	355	865	235	52.0
(WY)	1996	1999	1999	1994	1998	1997	1952	1962	1942	1993	1993	1999
MIN	.21	.25	.10	.000	.000	.51	2.89	2.20	.41	.041	.059	.074
(WY)	1940	1940	1940	1940	1940	1956	1981	1981	1976	1976	1976	1976

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1940 - 2001
ANNUAL TOTAL	12119.9	47070.4	
ANNUAL MEAN	33.1	129	52.9a
HIGHEST ANNUAL MEAN			172
LOWEST ANNUAL MEAN			1.37
HIGHEST DAILY MEAN	231	2960	5400
LOWEST DAILY MEAN	1.1	2.0	.00b
ANNUAL SEVEN-DAY MINIMUM	1.2	2.4	.00
MAXIMUM PEAK FLOW		3180	8900
MAXIMUM PEAK STAGE		8.64	14.40
INSTANTANEOUS LOW FLOW		1.9	.00b
ANNUAL RUNOFF (AC-FT)	24040	93360	38290
ANNUAL RUNOFF (CFSM)	.076	.29	.12
ANNUAL RUNOFF (INCHES)	1.03	4.00	1.64
10 PERCENT EXCEEDS	104	410	119
50 PERCENT EXCEEDS	9.8	7.6	4.1
90 PERCENT EXCEEDS	2.9	3.4	.30

a Median of annual mean discharges is 38 ft³/s.
 b Many days, several years.
 e Estimated.

