

MINNESOTA RIVER BASIN--Continued

05290000 LITTLE MINNESOTA RIVER NEAR PEEVER, SD

LOCATION.--Lat 45°36'05", long 96°52'18", in SW¹/₄SW¹/₄ 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 September, 2002 (discontinued).

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 fair except those for estimated daily discharges, which are fair to poor. 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.

DISCHARGE, in CFS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	8.3	13	e12	e9.6	e22	138	100	41	16	4.4	3.6
2	3.4	8.3	12	e12	e9.5	e23	125	91	35	14	3.7	3.6
3	3.4	8.3	12	e11	e9.5	e24	92	81	30	13	4.2	3.5
4	3.1	7.9	14	e12	e9.5	e23	82	71	28	11	7.0	3.3
5	3.1	7.9	15	e13	e9.5	e21	75	62	25	10	14	3.1
6	3.1	7.9	15	e14	e9.6	e20	72	57	24	9.6	12	2.9
7	3.3	7.9	16	e15	e9.7	e18	74	54	23	8.9	9.7	2.5
8	3.8	7.9	16	e14	e9.8	e16	120	63	20	8.7	7.8	2.1
9	4.2	7.9	15	e14	e10	e15	116	256	20	8.5	6.2	1.8
10	8.4	7.9	15	e13	e10	e12	105	318	19	10	6.7	1.7
11	12	7.9	15	e13	e10	e14	121	244	18	11	6.0	1.7
12	15	7.9	15	e13	e11	e19	132	246	17	11	7.0	1.6
13	13	8.2	15	e13	e11	e18	120	269	15	9.5	6.7	1.4
14	11	8.9	14	e12	e11	e18	113	231	15	8.3	7.6	1.4
15	9.1	9.2	14	e12	e12	e19	106	200	14	7.4	8.1	1.3
16	8.4	8.9	14	e11	e13	e19	98	173	13	6.2	6.7	1.2
17	7.9	9.4	14	e10	e13	e25	91	145	12	5.1	5.6	1.2
18	7.3	9.6	15	e10	e14	e24	83	125	11	5.6	4.5	1.1
19	7.0	9.6	13	e10	e16	e23	75	109	12	5.9	3.9	1.1
20	6.6	9.2	15	e10	e27	e23	69	94	11	7.4	3.6	1.1
21	6.4	9.2	14	e10	40	e22	64	82	16	7.4	3.9	0.99
22	6.3	9.5	14	e10	46	e22	64	74	58	7.1	4.1	0.95
23	6.4	9.6	14	e10	44	e22	65	69	71	11	5.2	0.90
24	6.6	11	18	e10	36	e22	62	63	50	9.0	5.7	0.89
25	7.0	13	21	e11	e29	e22	59	61	42	8.1	5.2	0.90
26	7.0	15	25	e11	e28	e22	54	60	42	6.8	4.6	0.95
27	7.4	15	22	e10	e24	e23	52	58	33	6.2	4.3	0.94
28	7.4	16	e16	e10	e24	e31	63	56	26	5.9	3.8	1.2
29	7.4	15	e15	e9.8	---	e50	96	53	22	6.1	3.5	2.0
30	7.4	14	e14	e9.7	---	e158	104	51	19	5.7	3.1	2.0
31	7.9	---	e13	e9.6	---	e159	---	46	---	5.0	3.5	---
TOTAL	213.9	296.3	473	355.1	505.7	949	2690	3662	782	265.4	182.3	52.92
MEAN	6.900	9.877	15.26	11.45	18.06	30.61	89.67	118.1	26.07	8.561	5.881	1.764
MAX	15	16	25	15	46	159	138	318	71	16	14	3.6
MIN	3.1	7.9	12	9.6	9.5	12	52	46	11	5.0	3.1	0.89
AC-FT	424	588	938	704	1000	1880	5340	7260	1550	526	362	105
CFSM	0.02	0.02	0.03	0.03	0.04	0.07	0.20	0.27	0.06	0.02	0.01	0.00
IN.	0.02	0.03	0.04	0.03	0.04	0.08	0.23	0.31	0.07	0.02	0.02	0.00

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.233	7.276	4.478	1.977	5.138	116.7	235.3	105.9	73.11	53.92	12.94	5.137
MAX	73.9	74.5	61.2	11.5	57.0	603	1321	531	355	865	235	52.0
(WY)	1996	1999	1999	2002	1998	1997	1952	1962	1942	1993	1993	1999
MIN	0.21	0.25	0.10	0.000	0.000	0.51	2.89	2.20	0.41	0.041	0.059	0.074
(WY)	1940	1940	1940	1940	1940	1956	1981	1981	1976	1976	1976	1976

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1940 - 2002	
ANNUAL TOTAL	47437.8		10427.62			
ANNUAL MEAN	130.0		28.57		52.41a	
HIGHEST ANNUAL MEAN					172	
LOWEST ANNUAL MEAN					1.37	
HIGHEST DAILY MEAN	2960		318		5400	
LOWEST DAILY MEAN	2.0		0.89		0.00b	
ANNUAL SEVEN-DAY MINIMUM	2.5		0.93		0.00	
MAXIMUM PEAK FLOW			373		8900	
MAXIMUM PEAK STAGE			4.69		14.40	
INSTANTANEOUS LOW FLOW			0.89		0.00b	
ANNUAL RUNOFF (AC-FT)	94090		20680		37970	
ANNUAL RUNOFF (CFSM)	0.30		0.065		0.12	
ANNUAL RUNOFF (INCHES)	4.03		0.89		1.63	
10 PERCENT EXCEEDS	410		75		118	
50 PERCENT EXCEEDS	10		12		4.3	
90 PERCENT EXCEEDS	4.5		3.5		0.30	

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

