

MINNESOTA RIVER BASIN

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. 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, which are fair.

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)
Oct 18	1030	225	3.91	May 12	2300	225	3.94
Mar 19	1330	297	4.17	Jun 7	1230	*306	4.20
Apr 7	0930	283	4.12				

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	1.4	49	149	e11	e6.3	e160	213	74	47	50	21	21
2	1.4	52	138	e11	e6.4	e195	210	70	45	49	20	22
3	1.5	48	133	e9.8	e6.4	e185	226	66	41	56	18	21
4	2.6	43	126	e9.0	e6.0	e160	249	60	39	49	16	37
5	5.1	40	119	e8.5	e6.3	e135	271	63	52	42	15	92
6	9.4	36	114	e8.0	e6.4	e120	265	78	146	37	13	112
7	8.7	34	92	e7.5	e7.0	e110	277	113	289	33	13	96
8	6.5	33	e81	e7.2	e10	e100	250	153	225	46	12	109
9	5.3	33	e86	e6.8	e15	e94	218	164	192	95	12	101
10	4.6	40	77	e6.5	e22	e89	197	162	178	95	11	81
11	4.2	24	e83	e6.2	e35	e87	193	187	150	63	12	67
12	4.0	20	83	e6.0	e54	e85	204	212	127	59	14	66
13	3.6	22	79	e5.8	e80	e83	205	224	108	59	16	70
14	3.7	31	72	e5.6	e125	e84	191	208	94	53	29	61
15	5.6	35	70	e5.8	e125	e90	184	188	80	48	29	57
16	13	53	67	e6.0	e114	e110	171	175	71	42	19	55
17	99	61	64	e6.2	e97	274	160	161	67	37	14	53
18	204	68	43	e6.2	e78	262	149	147	65	34	12	51
19	117	62	37	e6.2	e62	248	139	135	65	31	10	49
20	101	e60	e30	e6.2	e51	263	131	124	69	32	8.6	45
21	87	e76	e25	e6.2	e44	223	121	112	70	33	7.9	42
22	72	92	e20	e6.2	e40	198	114	102	65	31	7.8	38
23	61	104	e16	e6.2	e38	183	111	92	60	31	7.1	34
24	49	129	e13	e6.2	e36	168	104	86	54	29	6.4	30
25	41	151	e11	e6.2	e38	153	96	83	49	28	5.9	26
26	35	176	e10	e6.2	e47	140	90	79	43	27	5.4	26
27	31	174	e10	e6.2	e60	134	86	72	39	27	4.5	26
28	28	171	e11	e6.2	e100	151	88	66	41	27	8.2	27
29	34	163	e13	e6.2	---	213	85	60	40	28	7.8	24
30	42	154	e13	e6.2	---	231	78	54	46	31	8.7	21
31	60	---	e12	e6.2	---	227	---	49	---	24	11	---
TOTAL	1141.6	2234	1897	213.7	1315.8	4955	5076	3619	2657	1326	395.3	1560
MEAN	36.8	74.5	61.2	6.89	47.0	160	169	117	88.6	42.8	12.8	52.0
MAX	204	176	149	11	125	274	277	224	289	95	29	112
MIN	1.4	20	10	5.6	6.0	83	78	49	39	24	4.5	21
AC-FT	2260	4430	3760	424	2610	9830	10070	7180	5270	2630	784	3090
CFSM	.08	.17	.14	.02	.11	.36	.38	.26	.20	.10	.03	.12
IN.	.10	.19	.16	.02	.11	.41	.42	.30	.22	.11	.03	.13

e Estimated

05290000 LITTLE MINNESOTA RIVER NEAR PEEVER, SD--Continued

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	6.13	7.09	4.20	1.66	4.57	120	226	103	75.1	54.7	12.8	5.28
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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1940 - 1999
ANNUAL TOTAL	38605.5	26390.4	
ANNUAL MEAN	106	72.3	51.7 ^a
HIGHEST ANNUAL MEAN			172
LOWEST ANNUAL MEAN			1.37
HIGHEST DAILY MEAN	1190	May 17	5400
LOWEST DAILY MEAN	1.2	Sep 21	.00 ^b
ANNUAL SEVEN-DAY MINIMUM	1.3	Sep 18	4.3
INSTANTANEOUS PEAK FLOW			306
INSTANTANEOUS PEAK STAGE			4.36 ^c
INSTANTANEOUS LOW FLOW			1.3 ^d
ANNUAL RUNOFF (AC-FT)	76570	52350	37490
ANNUAL RUNOFF (CFSM)	.24	.16	.12
ANNUAL RUNOFF (INCHES)	3.21	2.20	1.57
10 PERCENT EXCEEDS	335	180	118
50 PERCENT EXCEEDS	40	51	3.8
90 PERCENT EXCEEDS	3.1	6.2	.30

a Median of annual mean discharges is 38.0 ft³/s.
 b Many days, several years.
 c Backwater from ice
 d Rising stage.

