05290000 LITTLE MINNESOTA RIVER NEAR PEEVER, SD

Minnesota Basin
Upper Minnesota Subbasin

LOCATION.--Lat 45°36′57″, long 96°52′32″ referenced to North American Datum of 1983, in NE ¼ NE ¼ NE ¼ sec.14, T.125 N., R.50 W., Roberts County, SD, Hydrologic Unit 07020001, on right bank 2 miles northwest of town of Browns Valley, MN, 1 mile northwest of state line along south shore of Lake Traverse, 5.3 miles northeast of Peever, 5 miles downstream from Jorgenson River, and 6 miles upstream from Big Stone Lake.

DRAINAGE AREA.--436 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to September 1981, October 1989 to October 2002, July 2008 to current year.

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

GAGE.--Water-stage recorder. Datum of gage, 1,016.73 ft above sea level (NGVD of 1988). Oct. 1, 1939 to Mar. 20, 1940, non-recording gage at site 5.5 mi downstream at different datum. Mar. 21 to Aug. 27, 1940, non-recording gage at site 1.0 mi downstream at different datum. Aug. 1940 to Oct. 2002, water-stage recorder at site 1.0 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily-mean discharge, which are poor.. Breakout flow into Lake Traverse (Red River of the North Basin) may occur 4.5 miles downstream at extreme stages.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.3	63	e29	e17	e14	e15	486	341	51	26	9.3	10
2	4.0	59	e26	e16	e14	e16	438	281	47	23	7.4	10
3	4.2	57	e25	e15	e14	e17	511	246	44	20	6.4	e9.5
4	3.8	53	e23	e14	e14	e18	495	218	40	19	6.0	e9.0
5	4.6	52	e22	e14	e15	e17	448	202	37	17	5.6	e8.2
6	6.0	53	e21	e13	e16	e17	405	189	36	16	5.0	e7.6
7	9.1	73	e20	e13	e16	e16	391	171	38	15	43	e7.0
8	14	108	e21	e13	e16	e16	421	157	47	16	119	e6.7
9	13	99	e21	e13	e16	e16	598	148	58	18	82	8.0
10	31	e85	e20	e13	e17	e16	675	139	57	19	58	6.7
11	29	e81	e19	e13	e17	e16	660	130	50	19	54	8.7
12	47	e78	e20	e13	e16	e18	645	122	46	16	46	11
13	68	80	e21	e12	e16	e18	618	127	41	14	41	10
14	81	82	e20	e12	e16	e20	592	135	37	17	43	11
15	80	80	e20	e11	e16	e28	576	136	32	32	41	10
16	79	76	e18	e11	e15	e251	535	124	28	45	51	9.2
17	67	73	e18	e12	e15	e614	507	111	31	33	47	9.9
18	57	62	e17	e12	e15	e864	479	101	37	27	41	9.8
19	50	71	e18	e12	e16	e956	446	92	33	24	39	9.8
20	45	e46	e19	e12	e16	984	412	81	28	23	37	10
21	38	e46	e19	e12	e17	883	373	74	27	22	32	12
22	37	e45	e18	e12	e17	878	338	69	28	20	30	12
23	51	e43	e17	e12	e17	2,100	307	66	35	18	27	12
24	83	e40	e17	e12	e18	3,090	278	60	32	16	24	15
25	120	e38	e17	e12	e18	2,080	253	57	34	15	21	18
26	140	e37	e18	e12	e17	1,310	236	62	62	15	18	19
27	115	e33	e19	e12	e15	935	231	66	62	15	17	27
28	98	e32	e19	e13	e15	858	228	63	50	13	15	28
29	85	e32	e18	e13	---	859	221	64	37	12	13	25
30	76	e28	e18	e14	---	805	369	58	31	10	12	24
31	69	---	e17	e14	---	679	---	55	---	10	11	---
Total	1,609.0	1,805	615	399	444	18,410	13,172	3,945	1,216	605	1,001.7	374.1
Mean	51.9	60.2	19.8	12.9	15.9	594	439	127	40.5	19.5	32.3	12.5
Max	140	108	29	17	18	3,090	675	341	62	45	119	28
Min	3.8	28	17	11	14	15	221	55	27	10	5.0	6.7
Ac-ft	3,190	3,580	1,220	791	881	36,520	26,130	7,820	2,410	1,200	1,990	742
Cfsm	0.12	0.14	0.05	0.03	0.04	1.36	1.01	0.29	0.09	0.04	0.07	0.03
In.	0.14	0.15	0.05	0.03	0.04	1.57	1.12	0.34	0.10	0.05	0.09	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.03	8.20	4.75	2.17	5.33	125	239	106	72.5	53.3	13.3	5.30
Max	73.9	74.5	61.2	12.9	57.0	603	1,321	531	355	865	235	52.0
(WY)	(1996)	(1999)	(1999)	(2009)	(1998)	(1997)	(1952)	(1962)	(1942)	(1993)	(1993)	(1999)
Min	0.21	0.25	0.10	0.00	0.00	0.51	2.89	2.20	0.41	0.04	0.06	0.07
(WY)	(1940)	(1940)	(1940)	(1940)	(1940)	(1956)	(1981)	(1981)	(1976)	(1976)	(1976)	(1976)

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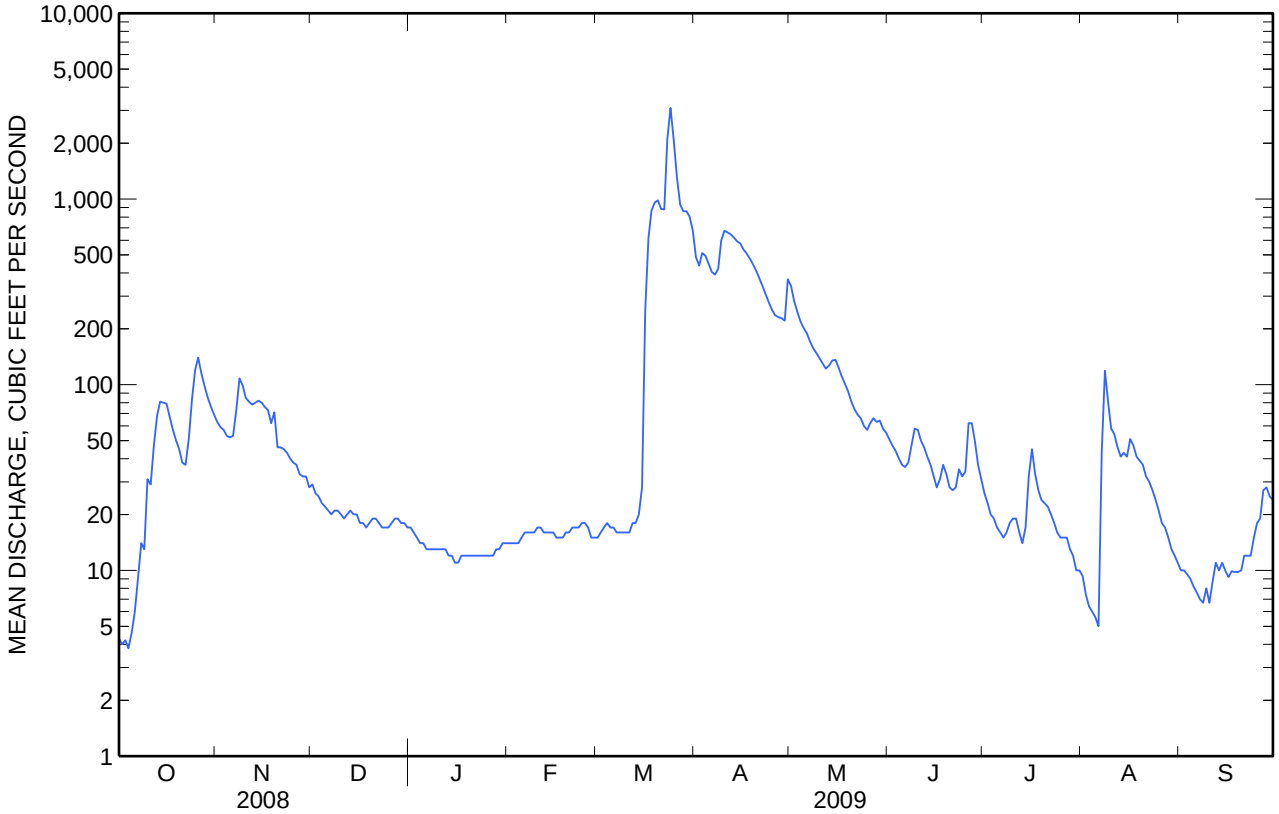
SUMMARY STATISTICS

	Water Year 2009		Water Years 1940 - 2009	
Annual total	43,595.8			
Annual mean	119		[a]53.6	
Highest annual mean			172	1997
Lowest annual mean			1.37	1981
Highest daily mean	3,090	Mar 24	5,400	Jul 25, 1993
Lowest daily mean	3.8	Oct 4	[b]0.00	Jan 1, 1940
Annual seven-day minimum	5.1	Oct 1	0.00	Jan 1, 1940
Maximum peak flow	3,150	Mar 24	8,900	Jul 25, 1993
Maximum peak stage	20.33	Mar 24	20.33	Mar 24, 2009
Instantaneous low flow	3.5	Oct 4	[b]0.00	Jan 1, 1940
Annual runoff (ac-ft)	86,470		38,830	
Annual runoff (cfsm)	0.274		0.123	
Annual runoff (inches)	3.72		1.67	
10 percent exceeds	371		120	
50 percent exceeds	27		4.5	
90 percent exceeds	11		0.30	

[a] Median of annual mean discharges is 38 ft³/s.

[b] Many days, several years.