

MINNESOTA RIVER BASIN--Continued

05320500 LE SUEUR RIVER NEAR RAPIDAN, MN

LOCATION.--Lat 44°06'40", long 94°02'28", in SW $\frac{1}{4}$ sec. 35, T.108 N., R.27 W., Blue Earth County, Hydrologic Unit 07020011, on right bank 600 ft downstream from highway bridge, 1.8 mi northeast of Rapidan, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--1,110 mi².

PERIOD OF RECORD.--October 1939 to September 1945, July 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 775.76 ft above sea level (NGVD of 1929). Prior to Nov. 15, 1939, nonrecording gage at same site and 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 1,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 6	0200	*13,100	*12.97	May 7	1200	4,090	6.82
Apr 13	1900	9,720	10.89	May 26	2000	4,310	7.01
Apr 23	1900	5,270	7.79	Jun 17	0300	12,400	12.53

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	29	55	e74	e51	e52	e46	e1300	2410	2400	1160	e187	51
2	29	54	e72	e50	e50	e49	3560	2400	2120	1040	e167	53
3	31	48	e74	e50	e46	e52	6330	2490	1900	930	e146	47
4	32	45	e69	e51	e47	e54	9880	2780	1690	849	e127	44
5	32	46	e67	e53	e48	e54	12400	3130	1570	772	e108	41
6	30	76	e65	e55	e48	e55	12800	3610	1490	705	e95	39
7	28	111	e68	e57	e48	e56	12200	4010	1540	648	e91	42
8	28	107	e69	e57	e48	e56	10800	3690	1580	569	e83	41
9	28	129	e65	e56	e48	e57	8750	3430	1570	528	e79	38
10	27	128	e60	e55	e48	e58	7300	3040	1480	493	e73	37
11	28	138	e57	e56	e49	e59	8020	2650	1390	446	e72	38
12	28	134	e52	e58	e49	e60	9230	2370	1300	418	e68	38
13	29	127	e47	e58	e49	e60	9610	2170	3390	390	68	37
14	34	115	e49	e57	e50	e59	9480	1970	6140	e337	64	36
15	31	102	e50	e55	e49	e59	8510	1790	8040	e305	65	36
16	29	106	e50	e54	e48	e61	6990	1630	11100	e264	63	36
17	30	104	e50	e53	e47	e63	5660	1480	12100	e232	60	37
18	30	92	e49	e53	e47	e64	4600	1360	10200	e213	66	37
19	32	e89	e49	e52	e47	e65	3830	1260	7620	e190	63	37
20	35	e77	e48	e50	e47	e66	3330	1280	5470	e187	61	39
21	35	e87	e47	e49	e47	e67	3090	2750	e4010	e204	59	40
22	35	e88	e46	e50	e46	e69	3020	3510	e3040	e308	58	45
23	32	e86	e44	e53	e46	e71	4910	3770	e2550	554	56	65
24	41	e84	e43	e53	e48	e75	5230	3690	e2270	770	52	62
25	51	e83	e42	e52	e51	e82	5100	3480	e1960	762	52	71
26	48	e82	e44	e52	e50	e80	4590	3940	e1890	636	51	69
27	42	e81	e46	e52	e48	e77	3870	4190	e1760	524	49	65
28	44	e79	e48	e51	e47	e79	3190	4030	1570	418	45	65
29	49	e78	e50	e52	---	e110	2710	3710	1420	e334	45	60
30	56	e76	e52	e53	---	e220	2420	3240	1290	e260	46	52
31	52	---	e52	e53	---	e400	---	2780	---	e207	47	---
TOTAL	1085	2707	1698	1651	1348	2483	192710	88040	105850	15653	2366	1398
MEAN	35.0	90.2	54.8	53.3	48.1	80.1	6424	2840	3528	505	76.3	46.6
MAX	56	138	74	58	52	400	12800	4190	12100	1160	187	71
MIN	27	45	42	49	46	46	1300	1260	1290	187	45	36
AC-FT	2150	5370	3370	3270	2670	4930	382200	174600	210000	31050	4690	2770
CFSM	.03	.08	.05	.05	.04	.07	5.79	2.56	3.18	.45	.07	.04
IN.	.04	.09	.06	.06	.05	.08	6.46	2.95	3.55	.52	.08	.05

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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	318	273	149	83.7	140	797	1448	981	1071	660	401	241
MAX	3300	1561	698	493	1299	3465	6563	3706	3913	2760	3656	1526
(WY)	1969	1993	1992	1992	1984	1983	1965	1960	1993	1993	1993	1993
MIN	7.41	11.1	5.04	2.96	1.68	33.0	48.3	18.8	40.4	20.6	8.20	7.55
(WY)	1990	1956	1959	1957	1959	1964	1957	1940	1950	1988	1989	1976

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1940 - 2001
ANNUAL TOTAL	219072	416989	
ANNUAL MEAN	599	1142	548
HIGHEST ANNUAL MEAN			2035
LOWEST ANNUAL MEAN			51.4
HIGHEST DAILY MEAN	8810	Jun 4	12800
LOWEST DAILY MEAN	27	Jan 21	27
ANNUAL SEVEN-DAY MINIMUM	28	Jan 20	28
MAXIMUM PEAK FLOW			13100
MAXIMUM PEAK STAGE			12.97
INSTANTANEOUS LOW FLOW			27
ANNUAL RUNOFF (AC-FT)	434500	827100	397300
ANNUAL RUNOFF (CFSM)	.54	1.03	.49
ANNUAL RUNOFF (INCHES)	7.34	13.97	6.71
10 PERCENT EXCEEDS	1860	3700	1520
50 PERCENT EXCEEDS	116	65	152
90 PERCENT EXCEEDS	31	40	17

a From highwater mark.
e Estimated.

