

MINNESOTA RIVER BASIN--Continued

05320500 LE SUEUR RIVER NEAR RAPIDAN, MN

LOCATION.--Lat 44°06'40", long 94°02'28", in SW¹/₄ 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. Prior to Nov. 15, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 18	1200	1,610	3.89	Jun 13	0700	5,490	8.09
Apr 11	2400	*7,040	*9.29	Jul 4	0400	1,670	4.10
May 23	1800	4,740	7.34	Jul 23	2300	3,840	6.65

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	29	740	290	e103	e78	e445	555	1980	1630	856	989	121
2	29	659	280	e102	e79	e450	541	1780	1500	797	850	112
3	32	589	276	e101	e80	e450	516	1620	1360	1280	721	106
4	34	529	270	e100	e82	e430	508	1470	1250	1590	617	100
5	37	472	269	e98	e84	e390	541	1360	1200	1360	527	99
6	41	438	286	e96	e86	e345	2010	1280	1160	1190	456	92
7	40	413	285	e92	e90	e290	3300	1240	1150	1010	401	85
8	52	389	275	e82	e99	e260	3540	1170	1500	1060	360	112
9	48	376	263	e80	e110	e235	4650	1100	1580	1120	580	120
10	49	518	256	e82	e125	e250	5360	1030	1590	1150	694	121
11	60	828	241	e82	e150	e260	6640	1020	3570	1100	655	106
12	56	868	255	e83	e350	e260	6890	1460	5160	940	708	96
13	55	837	283	e84	e600	e250	6270	2970	5370	813	619	84
14	53	798	263	e85	e700	e260	5450	3550	4550	716	544	76
15	103	737	256	e87	e880	e300	4800	3820	3760	631	476	73
16	159	685	245	e89	1190	e600	4740	4110	3200	559	402	70
17	450	625	238	e90	1370	e1000	4650	4140	2740	506	352	66
18	844	580	221	e88	1440	e1200	4430	3790	2390	509	318	62
19	1040	542	148	e86	1210	1110	4110	3450	2150	753	287	59
20	1070	501	115	e83	1040	957	3770	3510	1970	1520	261	57
21	906	425	e96	e81	931	819	3450	4490	1780	2240	252	53
22	690	434	e90	e80	853	709	3240	4610	1630	2890	241	51
23	544	425	e84	e79	654	635	3230	4710	1570	3680	234	49
24	439	408	e85	e78	565	577	3540	4650	1420	3740	224	46
25	385	384	e86	e77	570	523	3730	4070	1380	3100	214	43
26	343	360	e90	e76	460	488	3540	3410	1320	2340	202	40
27	355	332	e94	e75	452	467	3270	2980	1190	1780	188	37
28	430	314	e97	e76	446	472	2900	2580	1110	1490	177	36
29	609	304	e100	e76	---	491	2530	2260	1020	1290	162	35
30	770	299	e105	e76	---	522	2210	2000	933	1240	146	35
31	792	---	e104	e77	---	541	---	1790	---	1110	133	---
TOTAL	10544	15809	6046	2644	14774	15986	104911	83400	62133	44360	12990	2242
MEAN	340	527	195	85.3	528	516	3497	2690	2071	1431	419	74.7
MAX	1070	868	290	103	1440	1200	6890	4710	5370	3740	989	121
MIN	29	299	84	75	78	235	508	1020	933	506	133	35
AC-FT	20910	31360	11990	5240	29300	31710	208100	165400	123200	87990	25770	4450
CFSM	.31	.47	.18	.08	.48	.46	3.15	2.42	1.87	1.29	.38	.07
IN.	.35	.53	.20	.09	.50	.54	3.52	2.80	2.08	1.49	.44	.08

e Estimated

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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	328	280	152	85.1	141	819	1382	943	986	647	410	248
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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1940 - 1999
ANNUAL TOTAL	234769	375839	
ANNUAL MEAN	643	1030	537
HIGHEST ANNUAL MEAN			2035
LOWEST ANNUAL MEAN			51.4
HIGHEST DAILY MEAN	5150	Apr 2	6890
LOWEST DAILY MEAN	24	Sep 19	29
ANNUAL SEVEN-DAY MINIMUM	25	Sep 18	35
INSTANTANEOUS PEAK FLOW			7040
INSTANTANEOUS PEAK STAGE			9.29
INSTANTANEOUS LOW FLOW			29
ANNUAL RUNOFF (AC-FT)	465700	745500	389000
ANNUAL RUNOFF (CFSM)	.58	.93	.48
ANNUAL RUNOFF (INCHES)	7.87	12.60	6.57
10 PERCENT EXCEEDS	1580	3430	1490
50 PERCENT EXCEEDS	385	491	156
90 PERCENT EXCEEDS	50	77	17

a From highwater mark.

