

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 (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)
May 25	0200	2,060	4.64	Jul 11	2200	3,900	6.23
May 31	0300	2,760	5.24	Aug 7	0800	2,200	4.77
Jun 13	1100	5,790	7.83	Sep 19	0100	*11,100	*11.44
Jul 7	0900	1,980	4.57				

Minimum discharge, 8.9 ft³/s, Jan. 30, estimated daily mean.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	17	e19	e12	e10	e32	292	142	2,420	489	616	403
2	13	17	e19	e12	e10	e54	247	130	2,070	449	726	339
3	14	18	19	e12	e10	e136	216	116	1,730	452	1,140	292
4	13	20	19	e11	e11	e176	191	104	1,410	496	1,490	256
5	12	20	19	e9.7	e11	e186	170	97	1,170	466	1,610	232
6	13	21	18	e9.8	e11	e188	151	92	998	1,200	1,940	265
7	15	e21	20	e9.5	e11	e190	138	86	884	1,820	2,020	396
8	13	e19	19	e9.4	e12	e208	127	83	774	1,610	1,900	415
9	12	e18	e19	e9.8	e12	e227	118	85	2,510	1,340	1,670	339
10	11	18	e13	e10	e12	e220	107	112	3,960	1,110	1,380	279
11	13	18	e11	e11	e13	e218	98	106	4,510	2,560	1,110	240
12	15	19	e10	e12	e13	e200	90	99	5,140	3,720	881	214
13	15	19	e9.6	e13	e13	e185	84	113	5,640	3,100	720	187
14	14	20	e9.4	e13	e13	e181	79	129	5,290	2,250	578	224
15	14	21	e9.4	e14	e13	e187	75	178	4,520	1,630	468	2,740
16	14	25	e9.4	e14	e12	e201	72	264	3,590	1,270	511	6,130
17	16	23	e9.5	e14	e13	e209	69	324	2,920	1,100	635	7,890
18	16	22	e9.7	e14	e15	e207	76	292	2,340	1,020	1,250	10,800
19	16	21	e9.7	e14	e17	e202	90	254	1,880	833	1,460	10,600
20	16	21	e9.8	e13	e18	e192	90	245	1,540	691	1,230	8,540
21	18	19	e10	e13	e19	e182	107	253	1,300	604	1,060	6,890
22	14	22	e10	e13	e19	e171	116	647	1,120	620	931	5,390
23	14	e26	e10	e13	e19	e173	117	1,120	990	769	792	4,300
24	15	e28	e10	e13	e20	e178	122	1,660	878	797	1,010	3,570
25	16	e27	e10	e13	e20	187	139	1,890	790	660	1,100	2,940
26	16	e26	e11	e13	e21	215	141	1,840	699	542	899	2,390
27	17	23	e12	e11	e22	248	138	1,600	641	451	703	1,990
28	19	e22	e13	e10	e23	286	145	1,370	561	380	577	1,660
29	21	e21	e12	e9.3	e26	326	156	1,360	509	330	471	1,440
30	19	20	e13	e8.9	---	357	152	2,030	467	297	473	1,260
31	19	---	e13	e9.3	---	344	---	2,630	---	498	495	---
TOTAL	467	632	405.5	363.7	439	6,350	3,913	19,451	63,251	33,554	31,846	82,611
MEAN	15.1	21.1	13.1	11.7	15.1	205	130	627	2,108	1,082	1,027	2,754
MAX	21	28	20	14	26	357	292	2,630	5,640	3,720	2,020	10,800
MIN	11	17	9.4	8.9	10	32	69	83	467	297	468	187
AC-FT	926	1,250	804	721	871	12,600	7,760	38,580	125,500	66,550	63,170	163,900
CFSM	0.01	0.02	0.01	0.01	0.01	0.18	0.12	0.57	1.90	0.98	0.93	2.48
IN.	0.02	0.02	0.01	0.01	0.01	0.21	0.13	0.65	2.12	1.12	1.07	2.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	321	266	147	82.0	136	770	1,400	977	1,089	658	409	276
MAX	3,300	1,561	698	493	1,299	3,465	6,563	3,706	3,913	2,760	3,656	2,754
(WY)	(1969)	(1993)	(1992)	(1992)	(1984)	(1983)	(1965)	(1960)	(1993)	(1993)	(1993)	(2004)
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)

05320500 LE SUEUR RIVER NEAR RAPIDAN, MN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	126,216.5		243,283.2		546	
ANNUAL MEAN	346		665		2,035	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					1977	
HIGHEST DAILY MEAN	3,790	May 15	10,800	Sep 18	23,400	Apr 8, 1965
LOWEST DAILY MEAN	9.4	Dec 14	8.9	Jan 30	1.6	Feb 9, 1959
ANNUAL SEVEN-DAY MINIMUM	9.5	Dec 13	9.5	Dec 13	1.6	Feb 9, 1959
MAXIMUM PEAK FLOW			11,100	Sep 18	24,700	Apr 8, 1965
MAXIMUM PEAK STAGE			11.44	Sep 19	a22.72	May 22, 1960
INSTANTANEOUS LOW FLOW			b8.9	Jan 30	1.6	Feb 9, 1959
ANNUAL RUNOFF (AC-FT)	250,400		482,600		395,500	
ANNUAL RUNOFF (CFSM)	0.312		0.599		0.492	
ANNUAL RUNOFF (INCHES)	4.23		8.15		6.68	
10 PERCENT EXCEEDS	1,010		1,850		1,510	
50 PERCENT EXCEEDS	50		130		155	
90 PERCENT EXCEEDS	14		11		17	

a From highwater mark.
 b Estimated daily mean.
 c Estimated.

