

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)
May 29	0400	2,100	4.81	Jun 23	0900	2,230	4.96
Jun 15	0200	*2,550	*5.33	Aug 24	0300	1,680	4.33

Minimum discharge, 34 ft³/s, Oct. 12, gage height, 0.96 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	39	224	e54	e55	e85	244	722	701	784	176	301
2	54	40	205	e53	e55	e81	228	694	549	659	150	249
3	51	39	188	e53	e54	e78	207	640	655	587	133	205
4	47	39	173	e53	e54	e76	189	591	1030	523	197	172
5	44	42	164	e53	e56	e75	181	532	1460	446	353	148
6	42	46	159	e54	e62	e74	171	503	1520	384	1170	130
7	41	46	174	e55	e66	e77	173	467	1470	347	1250	115
8	41	45	e185	e55	e72	e82	174	477	1270	313	1220	102
9	37	45	e190	e57	e76	e86	173	463	1090	284	961	102
10	41	45	e190	e59	e83	e90	182	415	936	267	720	99
11	38	48	e185	e60	e86	e91	211	393	1280	265	517	88
12	35	48	185	e61	e91	e93	399	391	1780	255	393	78
13	46	50	e165	e61	e95	e115	696	386	2180	339	322	71
14	53	48	e141	e61	e98	e165	893	392	2480	386	296	77
15	63	48	e126	e61	e103	e330	862	395	2520	327	288	74
16	54	48	e116	e60	e108	e470	765	389	2240	273	254	76
17	49	48	e108	e59	e113	e700	686	373	1820	236	217	78
18	48	46	e100	e59	121	e910	607	361	1520	202	178	74
19	46	48	e94	e58	125	e970	539	353	1360	174	152	79
20	45	47	e87	e58	129	911	478	335	1290	155	134	67
21	45	48	e80	e58	122	668	459	315	1300	147	350	63
22	45	50	e72	e59	123	551	442	297	1940	136	1320	64
23	49	52	e65	e60	122	598	440	297	2220	117	1500	75
24	50	91	e60	e60	120	525	456	290	2120	181	1620	72
25	45	133	e58	e60	114	394	444	276	1920	291	1340	77
26	42	135	e57	e60	e105	372	436	266	1740	232	1110	83
27	42	172	e56	e60	e97	349	422	261	1780	186	852	79
28	40	221	e56	e59	e89	376	508	258	1440	165	659	103
29	40	234	e56	e59	---	329	635	1530	1150	162	568	140
30	40	231	e56	e58	---	282	702	939	943	148	459	167
31	40	---	e55	e57	---	260	---	781	---	167	369	---
TOTAL	1410	2272	3830	1794	2594	10263	13002	14782	45704	9138	19228	3308
MEAN	45.5	75.7	124	57.9	92.6	331	433	477	1523	295	620	110
MAX	63	234	224	61	129	970	893	1530	2520	784	1620	301
MIN	35	39	55	53	54	74	171	258	549	117	133	63
AC-FT	2800	4510	7600	3560	5150	20360	25790	29320	90650	18130	38140	6560
CFSM	0.04	0.07	0.11	0.05	0.08	0.30	0.39	0.43	1.37	0.27	0.56	0.10
IN.	0.05	0.08	0.13	0.06	0.09	0.34	0.44	0.50	1.53	0.31	0.64	0.11

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	313	270	149	83.3	139	789	1431	973	1078	654	405	239
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 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1940 - 2002

ANNUAL TOTAL	419011	127325	
ANNUAL MEAN	1148	349	545
HIGHEST ANNUAL MEAN			2035
LOWEST ANNUAL MEAN			51.4
HIGHEST DAILY MEAN	12800	Apr 6	23400
LOWEST DAILY MEAN	35	Oct 12	1.6
ANNUAL SEVEN-DAY MINIMUM	37	Sep 13	1.6
MAXIMUM PEAK FLOW			24700
MAXIMUM PEAK STAGE			22.72a
INSTANTANEOUS LOW FLOW			1.6
ANNUAL RUNOFF (AC-FT)	831100	252500	394900
ANNUAL RUNOFF (CFSM)	1.03	0.31	0.49
ANNUAL RUNOFF (INCHES)	14.04	4.27	6.67
10 PERCENT EXCEEDS	3700	950	1510
50 PERCENT EXCEEDS	65	162	154
90 PERCENT EXCEEDS	44	48	18

a From highwater mark.
e Estimated.

