

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 (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 poor.

PEAK DISCHARGES 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 21	2400	5,990	7.81	Jun 23	1500	2,810	5.53
Jun 4	1900	*10,700	*11.31	Jul 14	0700	5,100	7.37
Jun 16	2400	2,800	5.52				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	66	57	e56	e29	624	211	110	4430	972	287	97
2	49	62	56	e51	e30	486	202	106	6610	1190	260	101
3	45	56	57	e47	e30	396	190	105	7400	1310	227	102
4	41	62	63	e43	e31	344	182	101	8810	1150	204	98
5	42	62	e62	e41	e31	314	178	94	8650	1130	189	86
6	43	63	e61	e39	e31	291	165	89	7320	1470	186	74
7	42	93	e61	e38	e31	271	160	89	6320	1690	183	67
8	43	90	e65	e39	e32	261	153	128	5210	1550	219	66
9	56	81	e73	e40	e32	276	150	111	3930	1510	262	64
10	73	73	94	e41	e32	276	143	107	3010	1900	370	60
11	71	68	e93	e40	e32	276	141	156	2450	2330	448	64
12	60	65	84	e38	e32	271	138	181	2040	3130	373	49
13	57	65	86	e35	e32	261	136	147	1820	4040	312	47
14	48	61	97	e33	e32	250	133	128	1840	4960	278	46
15	44	60	80	e33	e33	242	129	117	2200	3820	241	e42
16	41	61	e72	e33	e34	232	129	126	2540	2670	207	e37
17	38	57	e68	e32	e35	221	130	218	2670	2050	188	e34
18	40	56	e69	e31	e35	216	127	1660	2500	1760	176	e32
19	41	53	e70	e29	e36	208	133	3250	2180	1500	173	e29
20	41	50	e66	e28	e37	207	136	3920	2100	1200	195	28
21	40	50	e63	e27	e43	203	132	4900	2150	1040	209	29
22	41	51	e59	e27	e60	198	134	5020	1750	899	202	33
23	39	59	e56	e27	e80	198	137	3840	2170	767	184	35
24	39	64	e55	e28	e150	218	134	2700	2210	659	166	37
25	39	61	e54	e28	e290	229	130	2020	1850	573	152	49
26	38	64	e54	e28	e500	244	132	1640	1590	528	139	45
27	38	64	e55	e28	e800	255	132	1450	1390	471	132	41
28	39	64	e56	e28	1050	256	128	1430	1370	422	126	38
29	43	61	e56	e28	872	251	120	1530	1250	368	119	35
30	65	57	e57	e28	---	242	115	1620	1100	328	113	31
31	60	---	e58	e29	---	226	---	1570	---	305	103	---
TOTAL	1436	1899	2057	1073	4492	8443	4360	38663	100860	47692	6623	1596
MEAN	46.3	63.3	66.4	34.6	155	272	145	1247	3362	1538	214	53.2
MAX	73	93	97	56	1050	624	211	5020	8810	4960	448	102
MIN	38	50	54	27	29	198	115	89	1100	305	103	28
AC-FT	2850	3770	4080	2130	8910	16750	8650	76690	200100	94600	13140	3170
CFSM	.04	.06	.06	.03	.14	.25	.13	1.12	3.03	1.39	.19	.05
IN.	.05	.06	.07	.04	.15	.28	.15	1.30	3.38	1.60	.22	.05

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	323	276	151	84.2	142	810	1360	951	1035	664	407	244
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 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1940 - 2000
ANNUAL TOTAL	348832	219194	
ANNUAL MEAN	956	599	539
HIGHEST ANNUAL MEAN			2035
LOWEST ANNUAL MEAN			51.4
HIGHEST DAILY MEAN	6890	Apr 12	23400
LOWEST DAILY MEAN	35	Sep 29	1.6
ANNUAL SEVEN-DAY MINIMUM	38	Sep 25	1.6
INSTANTANEOUS PEAK FLOW			24700
INSTANTANEOUS PEAK STAGE			22.72 ^a
INSTANTANEOUS LOW FLOW			1.6
ANNUAL RUNOFF (AC-FT)	691900	434800	390400
ANNUAL RUNOFF (CFSM)	.86	.54	.49
ANNUAL RUNOFF (INCHES)	11.69	7.35	6.60
10 PERCENT EXCEEDS	3430	1860	1500
50 PERCENT EXCEEDS	261	106	155
90 PERCENT EXCEEDS	52	33	17

^a From highwater mark.
^b Minimum recorded.
^e Estimated.

