

MINNESOTA RIVER BASIN--Continued

05320000 BLUE EARTH RIVER NEAR RAPIDAN, MN

LOCATION.--Lat 44°05'44", long 94°06'33", in SE¹/₄SE¹/₄ sec. 6, T.107 N., R.27 W., Blue Earth County, Hydrologic Unit 07020009, on left bank 0.2 mi downstream from power plant (reactivated in 1984) operated by Rapidan Redevelopment Limited Partnership, 2 mi west of Rapidan, 3.5 mi downstream from Watonwan River, and 7.8 mi upstream from Le Sueur River.

DRAINAGE AREA.--2,410 mi².

PERIOD OF RECORD.--July 1909 to November 1910 (published as "at Rapidan Mills," no winter records), October 1939 to September 1945, July 1949 to current year. Annual maximums only, 1912 to 1939.

REVISED RECORDS.-- WSP 1508: 1910.

GAGE.--Water-stage recorder. Datum of gage is 807.83 ft above sea level. July 20, 1909 to Apr. 28, 1910, nonrecording gage at site 0.2 mi upstream at different datum. Apr. 29 to Nov. 12, 1910, nonrecording gage at site 800 ft upstream at different datum. Oct. 4 to Nov. 14, 1939, nonrecording gage at present site and datum.

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

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	130	3800	1300	e350	284	793	1060	4390	2680	3620	1690	195
2	153	3310	1250	e340	281	850	1090	4030	2630	3570	1450	179
3	153	2860	1180	e330	319	796	1050	3680	2540	3980	1270	181
4	178	2580	1170	e310	337	885	956	3450	2450	4670	1200	181
5	273	2350	1110	e300	255	822	1030	3240	2310	4890	1070	154
6	271	2170	1040	e290	300	829	1630	3110	2290	5120	956	163
7	310	2010	1070	e280	295	867	3120	3040	2470	4620	800	161
8	411	1950	1060	e250	325	714	4000	2980	3490	3940	773	160
9	459	1840	948	e250	358	524	5300	2930	3960	3310	804	155
10	453	1880	859	e240	414	550	6850	2870	4430	2850	797	154
11	399	2310	872	e240	635	602	7920	2850	5350	2470	547	138
12	386	2930	913	e240	1170	842	8500	2900	6720	1920	603	152
13	354	3150	883	e240	1510	718	8710	3140	8310	1900	428	180
14	330	3060	807	e245	1510	714	8550	3580	9570	1540	467	171
15	483	2870	782	e250	1400	752	8090	4010	9440	1560	482	149
16	984	2640	768	e250	1410	803	7900	4390	8430	1290	431	132
17	2460	2510	762	e260	1410	1400	8020	4550	7490	1190	366	129
18	3350	2400	798	284	1340	1940	8190	4780	6690	1110	353	124
19	3840	2210	613	262	1310	1930	8170	4680	6030	1350	370	110
20	4040	2060	480	257	1180	1640	7990	4440	5320	2530	321	112
21	4170	2060	398	256	1140	1680	7430	4590	4700	2910	308	114
22	3740	1910	326	247	1040	1570	6630	4950	4230	3740	314	106
23	2880	1770	e320	243	963	1480	6020	5130	3920	4110	311	98
24	2610	1790	e330	225	884	1400	5930	5220	3710	4540	293	98
25	2180	1660	e340	212	855	1320	6320	5060	3410	4850	287	99
26	1990	1570	e355	241	812	1190	6850	4520	3080	4610	278	97
27	1940	1550	e375	258	824	1180	6760	4020	2880	3710	269	94
28	2380	1360	e400	284	800	1130	6140	3540	3310	2950	262	95
29	3440	1390	e375	230	---	1090	5370	3370	3590	2510	252	92
30	3980	1390	e360	271	---	1110	4790	3040	3750	2150	270	120
31	4140	---	e350	305	---	1100	---	2840	---	1890	287	---
TOTAL	52867	67340	22594	8240	23361	33221	170366	119320	139180	95400	18309	4093
MEAN	1705	2245	729	266	834	1072	5679	3849	4639	3077	591	136
MAX	4170	3800	1300	350	1510	1940	8710	5220	9570	5120	1690	195
MIN	130	1360	320	212	255	524	956	2840	2290	1110	252	92
AC-FT	104900	133600	44820	16340	46340	65890	337900	236700	276100	189200	36320	8120
CFSM	.70	.92	.30	.11	.34	.44	2.34	1.58	1.91	1.27	.24	.06
IN.	.81	1.03	.35	.13	.36	.51	2.61	1.83	2.13	1.46	.28	.06

e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	575	580	360	208	271	1441	2713	1754	2150	1371	690	524
MAX	5121	2878	1724	1093	1793	6277	13230	5775	11700	8540	5541	4313
(WY)	1969	1993	1992	1992	1983	1983	1965	1991	1993	1993	1979	1993
MIN	22.5	26.7	16.0	14.8	14.2	92.4	142	53.4	110	30.9	37.7	22.1
(WY)	1940	1940	1956	1977	1959	1968	1977	1940	1976	1940	1976	1976

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1909 - 1999
ANNUAL TOTAL	495691	754291	
ANNUAL MEAN	1358	2067	1071
HIGHEST ANNUAL MEAN			4518
LOWEST ANNUAL MEAN			105
HIGHEST DAILY MEAN	7960	9570	42500
LOWEST DAILY MEAN	87	92	7.4
ANNUAL SEVEN-DAY MINIMUM	89	96	8.1
INSTANTANEOUS PEAK FLOW		10100	43100
INSTANTANEOUS PEAK STAGE		8.92	21.36 ^a
INSTANTANEOUS LOW FLOW		73 ^b	6.9
ANNUAL RUNOFF (AC-FT)	983200	1496000	775500
ANNUAL RUNOFF (CFSM)	.56	.85	.44
ANNUAL RUNOFF (INCHES)	7.59	11.55	5.99
10 PERCENT EXCEEDS	3170	4910	2860
50 PERCENT EXCEEDS	1050	1190	364
90 PERCENT EXCEEDS	130	228	43

a From floodmark.
b Result of regulation.

