

MINNESOTA RIVER BASIN--Continued

05320000 BLUE EARTH RIVER NEAR RAPIDAN, MN

LOCATION.--Lat 44°05'44", long 94°06'33", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ 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 (NGVD of 1929). 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, in CFS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	72	366	93	e145	193	809	1050	1600	923	876	713
2	120	71	283	95	e125	188	572	1080	1580	761	779	568
3	86	95	293	95	106	e180	639	1020	1420	700	607	495
4	63	107	287	103	114	172	433	974	1440	602	561	483
5	63	104	280	131	114	172	403	871	1500	517	661	383
6	62	103	281	128	110	163	402	828	1640	478	1520	332
7	65	96	281	117	110	150	392	787	1720	419	2140	283
8	75	83	281	117	110	139	369	804	1540	411	2580	261
9	73	77	270	117	109	e134	382	739	1330	326	2820	227
10	83	77	285	117	125	e128	400	690	1190	305	2590	221
11	88	77	336	142	138	123	399	684	1370	381	2150	194
12	86	77	330	189	130	120	460	744	2550	335	1460	172
13	86	86	270	159	124	120	626	695	2880	301	1280	180
14	95	102	249	149	124	126	786	736	2900	321	1130	176
15	104	107	251	182	125	133	737	824	2450	326	1070	170
16	104	96	271	192	130	142	902	834	2010	332	1080	168
17	107	78	272	177	156	318	850	834	1770	320	1000	159
18	103	73	272	148	167	449	783	805	1710	300	741	144
19	102	73	232	157	202	556	720	715	1840	263	664	159
20	101	85	163	156	243	660	658	666	1590	220	672	166
21	101	96	129	159	212	637	623	615	2020	196	705	149
22	100	100	161	152	198	545	633	581	2180	208	1660	118
23	98	100	200	145	239	540	650	586	2210	200	2200	107
24	141	127	113	148	228	620	637	559	2160	183	2140	140
25	127	322	115	161	182	506	555	504	1820	512	1850	191
26	88	249	256	139	147	426	723	497	1530	646	1660	215
27	81	302	167	135	219	590	636	471	1420	546	1390	175
28	78	340	151	200	246	540	699	632	1230	388	1220	153
29	78	410	166	146	---	541	735	761	1110	467	959	153
30	78	405	142	154	---	572	889	718	985	501	1090	179
31	78	---	117	159	---	737	---	1070	---	491	964	---
TOTAL	2841	4190	7270	4462	4378	10620	18502	23374	52695	12879	42219	7234
MEAN	91.65	139.7	234.5	143.9	156.4	342.6	616.7	754.0	1756	415.5	1362	241.1
MAX	141	410	366	200	246	737	902	1080	2900	923	2820	713
MIN	62	71	113	93	106	120	369	471	985	183	561	107
AC-FT	5640	8310	14420	8850	8680	21060	36700	46360	104500	25550	83740	14350
CFSM	0.04	0.06	0.10	0.06	0.06	0.14	0.25	0.31	0.72	0.17	0.56	0.10
IN.	0.04	0.06	0.11	0.07	0.07	0.16	0.28	0.36	0.81	0.20	0.65	0.11

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	550.3	557.7	348.9	202.0	263.6	1382	2782	1796	2212	1366	689.6	505.8
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 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1909 - 2002
ANNUAL TOTAL	798314	190664	
ANNUAL MEAN	2187	522.4	1071
HIGHEST ANNUAL MEAN			4518
LOWEST ANNUAL MEAN			105
HIGHEST DAILY MEAN	16800	Apr 14	2900
LOWEST DAILY MEAN	52	Jan 3	62
ANNUAL SEVEN-DAY MINIMUM	67	Jan 1	69
MAXIMUM PEAK FLOW			4010a
MAXIMUM PEAK STAGE			5.66a
INSTANTANEOUS LOW FLOW			45c
ANNUAL RUNOFF (AC-FT)	1583000	378200	776100
ANNUAL RUNOFF (CFSM)	0.90	0.21	0.44
ANNUAL RUNOFF (INCHES)	12.22	2.92	5.99
10 PERCENT EXCEEDS	7390	1400	2890
50 PERCENT EXCEEDS	175	281	364
90 PERCENT EXCEEDS	75	96	46

- a Maximum recorded, result of regulation.
- b From floodmark.
- c Minimum recorded, result of regulation.
- e Estimated.

