

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 (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, 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	109	138	98	57	45	569	172	156	2770	1520	458	161
2	80	106	98	57	44	424	178	136	3540	1500	425	126
3	87	79	98	60	45	320	172	135	2880	1270	397	183
4	99	73	98	61	45	284	161	140	2620	1440	375	180
5	100	73	95	61	45	285	149	133	2340	1340	274	146
6	88	76	78	65	47	260	140	121	2260	1540	328	87
7	82	87	71	65	51	210	131	117	2130	2040	385	148
8	87	104	73	63	54	220	125	135	2070	1730	516	122
9	94	107	78	63	54	249	124	141	1880	1670	460	109
10	98	107	77	62	52	249	124	137	1620	1400	510	107
11	93	107	77	61	56	210	126	164	1600	3420	955	105
12	90	101	84	59	60	178	127	185	1370	3960	761	99
13	92	96	88	60	62	241	130	162	1290	4350	625	98
14	85	90	89	60	61	e220	136	155	1320	4540	662	96
15	78	86	91	60	60	203	141	151	1360	4420	508	72
16	78	84	84	59	60	196	141	162	2040	3870	381	49
17	78	82	72	59	59	194	140	239	2130	2990	419	54
18	75	87	68	59	60	187	134	927	2270	2520	352	79
19	79	86	74	59	60	183	150	2850	2430	2160	397	90
20	85	86	79	e54	59	180	182	4200	2360	1960	342	86
21	87	86	e74	e52	59	178	165	4500	2280	1700	293	79
22	88	86	e70	e50	60	175	154	4640	1950	1540	291	73
23	86	95	e65	e50	86	172	154	4020	1830	1330	280	71
24	82	101	e62	51	152	188	169	3010	1610	1190	234	62
25	82	104	61	48	176	201	206	2480	2120	1100	216	61
26	84	104	55	48	181	184	191	2010	1860	1030	240	61
27	85	104	58	48	472	214	188	1910	1840	955	219	68
28	84	104	55	46	622	181	174	1640	2430	839	163	71
29	84	101	57	45	1020	139	160	1870	2100	703	168	76
30	105	98	57	45	---	142	159	2120	1800	593	190	79
31	143	---	57	45	---	158	---	2060	---	484	128	---
TOTAL	2767	2838	2341	1732	3907	6994	4603	40806	62100	61104	11952	2898
MEAN	89.3	94.6	75.5	55.9	135	226	153	1316	2070	1971	386	96.6
MAX	143	138	98	65	1020	569	206	4640	3540	4540	955	183
MIN	75	73	55	45	44	139	124	117	1290	484	128	49
AC-FT	5490	5630	4640	3440	7750	13870	9130	80940	123200	121200	23710	5750
CFSM	.04	.04	.03	.02	.06	.09	.06	.54	.85	.81	.16	.04
IN.	.04	.04	.04	.03	.06	.11	.07	.62	.95	.94	.18	.04

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	566	571	355	205	269	1420	2669	1746	2149	1381	685	517
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 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1909 - 2000
ANNUAL TOTAL	619436	204042	
ANNUAL MEAN	1697	557	1062
HIGHEST ANNUAL MEAN			4518
LOWEST ANNUAL MEAN			105
HIGHEST DAILY MEAN	9570	Jun 14	42500
LOWEST DAILY MEAN	55	Dec 26	7.4
ANNUAL SEVEN-DAY MINIMUM	57	Dec 25	8.1
INSTANTANEOUS PEAK FLOW			43100
INSTANTANEOUS PEAK STAGE			6.21
INSTANTANEOUS LOW FLOW			20 ^b
ANNUAL RUNOFF (AC-FT)	1229000	404700	769000
ANNUAL RUNOFF (CFMS)	.70	.23	.44
ANNUAL RUNOFF (INCHES)	9.48	3.12	5.94
10 PERCENT EXCEEDS	4910	2020	2830
50 PERCENT EXCEEDS	524	136	356
90 PERCENT EXCEEDS	84	59	43

a From floodmark.
 b Result of regulation.
 e Estimated.

