

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	83	255	84	e84	e82	e3100	6260	5810	2930	804	81
2	69	80	212	81	e81	e92	e4400	6060	4970	2680	871	129
3	70	80	207	70	e78	e94	e9000	5680	4330	2440	562	221
4	65	89	203	103	84	94	e13000	5550	3930	2260	579	101
5	65	97	210	98	94	92	16000	6060	3680	2020	596	71
6	65	122	181	86	101	92	16500	6640	3400	1880	498	88
7	61	218	207	87	101	90	16100	7360	3390	1660	480	92
8	61	136	169	96	95	89	15400	7580	3340	1690	457	157
9	62	189	168	e99	93	e89	14400	7320	3280	1360	407	166
10	65	164	166	101	e92	e90	13500	6860	3120	1390	378	99
11	81	193	155	102	e92	91	13400	6080	2960	1260	352	78
12	82	242	138	104	97	106	14200	5300	2810	1050	275	99
13	73	233	140	104	97	104	15300	4930	3690	1010	249	104
14	66	277	146	111	e94	106	16800	4540	6590	965	263	104
15	63	334	146	e98	e91	95	16400	4190	8590	745	269	101
16	58	389	153	e92	e87	93	14400	3780	11400	835	256	94
17	54	306	121	e88	e85	102	12900	3490	14700	665	245	92
18	59	251	134	e88	e83	118	11200	3200	15400	640	218	92
19	96	306	102	e87	e84	109	9580	2940	13700	495	235	91
20	102	251	104	e85	e80	122	8350	2840	11800	529	228	89
21	78	180	104	100	e74	185	7520	3930	9940	792	212	102
22	72	234	104	103	e64	217	7350	5730	8550	1070	210	121
23	86	239	91	101	e80	193	8320	6450	7430	1280	211	160
24	98	292	92	98	e78	267	10200	6900	6550	2000	197	262
25	74	299	93	100	e80	294	11500	7000	5820	1890	173	147
26	68	265	95	e101	e82	e450	11600	6880	5050	1910	174	96
27	66	263	92	e98	e82	e600	10600	6920	4530	1520	255	113
28	66	261	102	e95	e82	e750	9110	6980	3850	1470	140	129
29	67	229	105	89	---	e900	8060	7170	3560	1290	129	131
30	76	242	98	87	---	e1100	7040	7220	3160	1010	138	129
31	83	---	92	85	---	e1600	---	6670	---	1010	149	---
TOTAL	2225	6544	4385	2921	2415	8506	345230	178510	189330	43746	10210	3539
MEAN	71.8	218	141	94.2	86.2	274	11510	5758	6311	1411	329	118
MAX	102	389	255	111	101	1600	16800	7580	15400	2930	871	262
MIN	54	80	91	70	64	82	3100	2840	2810	495	129	71
AC-FT	4410	12980	8700	5790	4790	16870	684800	354100	375500	86770	20250	7020
CFSM	.03	.09	.06	.04	.04	.11	4.74	2.37	2.60	.58	.14	.05
IN.	.03	.10	.07	.04	.04	.13	5.29	2.73	2.90	.67	.16	.05

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	558	565	351	203	265	1400	2819	1814	2219	1382	679	510
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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1909 - 2001
ANNUAL TOTAL	209250	797561	
ANNUAL MEAN	572	2185	1081
HIGHEST ANNUAL MEAN			4518
LOWEST ANNUAL MEAN			105
HIGHEST DAILY MEAN	4640	May 22	16800
LOWEST DAILY MEAN	44	Feb 2	54
ANNUAL SEVEN-DAY MINIMUM	45	Jan 29	63
MAXIMUM PEAK FLOW			17200
MAXIMUM PEAK STAGE			12.04
INSTANTANEOUS LOW FLOW			14b
ANNUAL RUNOFF (AC-FT)	415000	1582000	783000
ANNUAL RUNOFF (CFSM)	.24	.90	.44
ANNUAL RUNOFF (INCHES)	3.20	12.21	6.04
10 PERCENT EXCEEDS	2020	7390	2890
50 PERCENT EXCEEDS	164	197	352
90 PERCENT EXCEEDS	59	81	44

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

