

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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	592	263	234	87	107	900	1,280	1,600	2,620	292	55
2	211	571	276	236	79	104	711	1,260	1,510	2,280	263	54
3	244	542	283	236	80	104	764	1,240	1,430	2,060	213	54
4	374	534	264	234	89	105	608	1,120	1,350	1,780	123	44
5	265	543	331	216	101	104	563	1,240	1,240	1,480	143	45
6	894	548	311	215	114	104	562	1,180	1,270	1,470	175	44
7	1,920	542	301	215	113	106	562	1,790	1,250	1,260	183	45
8	2,140	520	312	227	112	105	556	2,290	1,390	1,350	182	45
9	2,080	522	287	245	112	108	504	2,320	1,920	1,180	180	44
10	1,910	531	279	239	101	107	572	2,280	2,260	1,480	130	42
11	1,630	529	300	204	96	92	559	2,940	2,320	1,690	107	42
12	1,490	531	309	183	92	84	778	4,000	2,480	2,260	107	59
13	1,370	531	302	181	91	86	1,010	4,380	2,520	2,080	106	94
14	1,240	482	300	171	92	87	1,100	4,730	2,290	1,780	121	87
15	1,150	466	300	142	95	129	1,170	4,740	2,120	1,560	130	79
16	1,080	465	302	146	95	165	1,370	4,220	1,810	1,330	129	76
17	1,050	466	302	150	95	274	1,360	3,770	1,830	1,200	110	60
18	983	465	302	148	96	395	2,030	3,500	1,780	1,080	96	49
19	934	465	301	137	93	377	2,230	3,290	1,420	964	85	48
20	930	439	301	129	88	438	2,250	3,240	1,470	882	74	46
21	815	420	304	127	99	438	2,260	3,350	1,400	768	63	45
22	756	419	313	120	106	506	2,490	3,240	1,190	719	71	45
23	772	414	310	114	106	545	2,470	3,030	1,310	651	78	45
24	692	408	259	106	107	514	2,270	2,890	1,120	583	93	45
25	669	345	229	105	108	384	2,040	2,700	1,400	577	92	40
26	654	303	209	96	109	345	1,900	2,480	1,610	409	89	36
27	650	237	219	96	110	410	1,690	2,370	1,940	353	87	35
28	649	270	235	98	108	417	1,570	2,200	2,560	397	83	35
29	629	326	263	94	---	474	1,480	2,070	2,760	334	64	34
30	601	403	261	92	---	1,020	1,400	1,930	2,780	266	54	34
31	596	---	243	92	---	1,070	---	1,800	---	279	55	---
TOTAL	29,582	13,829	8,771	5,028	2,774	9,304	39,729	82,870	53,330	37,122	3,778	1,506
MEAN	954	461	283	162	99.1	300	1,324	2,673	1,778	1,197	122	50.2
MAX	2,140	592	331	245	114	1,070	2,490	4,740	2,780	2,620	292	94
MIN	204	237	209	92	79	84	504	1,120	1,120	266	54	34
AC-FT	58,680	27,430	17,400	9,970	5,500	18,450	78,800	164,400	105,800	73,630	7,490	2,990
CFSM	0.39	0.19	0.12	0.07	0.04	0.12	0.54	1.10	0.73	0.49	0.05	0.02
IN.	0.45	0.21	0.13	0.08	0.04	0.14	0.61	1.27	0.82	0.57	0.06	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2003, BY WATER YEAR (WY)

MEAN	557	556	348	201	261	1,364	2,758	1,811	2,204	1,363	681	499
MAX	5,121	2,878	1,724	1,093	1,793	6,277	13,230	5,775	11,700	8,540	5,541	4,313
(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)

05320000 BLUE EARTH RIVER NEAR RAPIDAN, MN—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1909 - 2003	
ANNUAL TOTAL	228,545		287,623		1,067	
ANNUAL MEAN	626		788		4,518	
HIGHEST ANNUAL MEAN					105	
LOWEST ANNUAL MEAN					1940	
HIGHEST DAILY MEAN	2,900	Jun 14	4,740	May 15	42,500	Apr 9, 1965
LOWEST DAILY MEAN	93	Jan 1	34	Sep 29,30	7.4	Oct 28, 1955
ANNUAL SEVEN-DAY MINIMUM	109	Jan 1	37	Sep 24	8.1	Oct 24, 1955
MAXIMUM PEAK FLOW			a5,660	May 14	43,100	Apr 9, 1965
MAXIMUM PEAK STAGE			a6.68	May 14	b21.36	Apr 9, 1965
INSTANTANEOUS LOW FLOW			a20	Sep 4	6.9	Oct 12, 1955
ANNUAL RUNOFF (AC-FT)	453,300		570,500		772,700	
ANNUAL RUNOFF (CFSM)	0.26		0.32		0.44	
ANNUAL RUNOFF (INCHES)	3.50		4.40		5.96	
10 PERCENT EXCEEDS	1,510		2,240		2,860	
50 PERCENT EXCEEDS	466		374		364	
90 PERCENT EXCEEDS	139		80		46	

a Due in part to regulation.
 b From floodmark.

