

MINNESOTA RIVER BASIN--Continued

05313500 YELLOW MEDICINE RIVER NEAR GRANITE FALLS, MN

LOCATION.--Lat 44°43'18", long 95°31'07", in SW<sup>1</sup>/<sub>4</sub> sec. 35, T.115 N., R.39 W., Yellow Medicine County, Hydrologic Unit 07020004, on right bank 50 ft downstream from highway bridge, 6 mi upstream from mouth, and 8 mi south of town of Granite Falls.

DRAINAGE AREA.--664 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1931 to September 1935 (no winter records), October 1935 to September 1938, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1508: 1931, 1934(M), 1937(M), 1946(M), 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 960.64 ft above sea level (NGVD of 1929). Mar. 16, 1931 to June 13, 1938, nonrecording gage, on bridge 50 ft upstream at present datum. Oct. 12, 1939 to Nov. 30, 1952, nonrecording gage 500 ft downstream at present datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1919 reached a stage of 17.5 ft, from information by local residents, discharge, 25,200 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 260 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 15	0200	3,560	7.74	Jun 16	1300	811	4.51
Apr 26	0800	*3,860	*8.00	Jul 24	1200	439	3.79

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	2.2	22	e7.0	e4.1	e4.6	e4.4	e176	1290	287	188	109	17
2	2.8	16	e6.7	e4.0	e4.4	e4.4	e481	1100	274	216	95	18
3	2.9	14	e6.5	e3.8	e4.4	e4.3	e898	948	264	214	83	15
4	2.6	16	e6.4	e3.9	e4.4	e4.3	e1310	821	253	202	74	12
5	2.5	16	e6.3	e4.0	e4.4	e4.3	e2000	736	240	183	65	12
6	2.4	22	e6.3	e4.2	e4.4	e4.3	2470	712	229	166	60	11
7	3.1	24	e6.2	e4.2	e4.5	e4.3	3350	808	239	149	53	11
8	2.8	21	e6.1	e4.2	e4.5	e4.3	3350	906	259	136	47	12
9	2.5	18	e5.9	e4.2	e4.5	e4.3	3230	861	307	122	42	13
10	2.2	23	e5.7	e4.2	e4.5	e4.3	3370	760	323	111	37	14
11	2.2	22	e5.4	e4.2	e4.5	e4.3	3300	673	315	102	34	18
12	2.2	20	e5.2	e4.2	e4.5	e4.5	3200	605	318	92	30	22
13	2.3	19	e5.0	e4.1	e4.5	e4.7	3100	549	344	85	27	17
14	2.2	18	e4.9	e4.1	e4.5	e4.8	3430	504	393	79	25	15
15	2.5	15	e4.7	e4.1	e4.5	e4.9	3500	465	564	73	26	14
16	2.4	14	e4.5	e4.1	e4.5	e4.7	2910	431	790	68	24	13
17	2.4	14	e4.4	e4.0	e4.4	e4.6	2300	397	703	63	23	13
18	2.3	13	e4.3	e4.0	e4.4	e4.7	1850	361	599	61	24	12
19	2.3	13	e4.3	e4.0	e4.4	e5.0	1480	333	521	58	23	16
20	2.3	e11	e4.3	e4.2	e4.4	e5.5	1230	315	482	56	22	19
21	2.5	e9.1	e4.3	e4.3	e4.4	e5.7	1060	307	440	58	21	19
22	2.5	e8.6	e4.2	e4.4	e4.4	e5.9	1090	298	384	61	20	17
23	2.6	e8.0	e4.2	e4.5	e4.4	e6.1	1970	294	336	199	19	14
24	2.7	e7.6	e4.2	e4.6	e4.5	e6.1	2520	291	295	422	17	14
25	2.7	e7.5	e4.2	e4.7	e4.5	e6.1	3380	305	264	353	16	14
26	3.5	e7.4	e4.2	e4.6	e4.5	e6.1	3800	319	235	271	15	12
27	3.7	e7.4	e4.3	e4.6	e4.5	e6.2	3320	333	213	226	15	12
28	3.3	e7.5	e4.2	e4.6	e4.5	e6.4	2560	346	195	190	14	12
29	8.3	e7.5	e4.1	e4.6	---	e7.8	2010	346	181	164	14	9.5
30	23	e7.3	e4.1	e4.6	---	e15	1580	330	182	143	15	8.9
31	17	---	e4.1	e4.6	---	e37	---	306	---	126	15	---
TOTAL	120.9	428.9	156.2	131.9	124.9	199.3	70225	17050	10429	4637	1104	426.4
MEAN	3.90	14.3	5.04	4.25	4.46	6.43	2341	550	348	150	35.6	14.2
MAX	23	24	7.0	4.7	4.6	37	3800	1290	790	422	109	22
MIN	2.2	7.3	4.1	3.8	4.4	4.3	176	291	181	56	14	8.9
AC-FT	240	851	310	262	248	395	139300	33820	20690	9200	2190	846
CFSM	.01	.02	.01	.01	.01	.01	3.53	.83	.52	.23	.05	.02
IN.	.01	.02	.01	.01	.01	.01	3.93	.96	.58	.26	.06	.02

05313500 YELLOW MEDICINE RIVER NEAR GRANITE FALLS, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	42.7	46.2	29.3	13.7	19.1	221	524	207	276	140	68.2	41.6
MAX	561	392	256	88.3	149	933	3302	1087	2484	1600	510	1005
(WY)	1996	1996	1996	1996	1998	1986	1969	1944	1984	1993	1953	1986
MIN	1.41	1.60	1.39	.90	.12	3.67	2.58	1.18	1.18	.34	.38	.47
(WY)	1937	1938	1936	1948	1959	1975	1934	1934	1934	1933	1934	1976

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1931 - 2001
ANNUAL TOTAL	11941.7	105033.5	
ANNUAL MEAN	32.6	288	144a
HIGHEST ANNUAL MEAN			566
LOWEST ANNUAL MEAN			8.32
HIGHEST DAILY MEAN	505	3800	16400
LOWEST DAILY MEAN	2.2	2.2	.00c
ANNUAL SEVEN-DAY MINIMUM	2.3	2.3	.00
MAXIMUM PEAK FLOW		3860	17200
MAXIMUM PEAK STAGE		8.00	14.90
INSTANTANEOUS LOW FLOW		2.1	.00c
ANNUAL RUNOFF (AC-FT)	23690	208300	104500
ANNUAL RUNOFF (CFSM)	.049	.43	.22
ANNUAL RUNOFF (INCHES)	.67	5.88	2.95
10 PERCENT EXCEEDS	78	772	319
50 PERCENT EXCEEDS	13	14	19
90 PERCENT EXCEEDS	3.4	4.1	2.4

- a Median of annual mean discharges is 87 ft<sup>3</sup>/s.
- b Also occurred Oct. 10-12, 14.
- c Many days, several years.
- e Estimated

