

05313500 YELLOW MEDICINE RIVER NEAR GRANITE FALLS, MN

LOCATION.--Lat 44°43'18", long 95°31'07", in SW¹/₄ 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 mi².

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 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 260 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jul 12	1700	*536	*4.00	No other peak greater than base discharge.			

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	6.6	14	16	e10	e6.0	45	14	24	88	48	78	6.4
2	7.0	13	15	e10	e6.0	41	13	21	85	51	68	6.2
3	7.1	13	14	e10	e6.0	40	12	18	91	40	60	6.1
4	7.3	13	13	e9.7	e6.1	44	12	16	92	31	55	5.7
5	13	13	13	e9.3	e6.1	45	12	14	84	32	49	5.4
6	10	12	13	e9.1	e6.2	55	12	13	82	26	47	5.0
7	7.9	12	14	e8.9	e6.2	42	12	12	86	23	43	5.0
8	6.5	12	14	e8.8	e6.3	35	12	14	88	22	45	4.8
9	6.2	12	14	e8.8	e6.4	32	12	14	78	28	40	4.7
10	6.7	13	13	e8.7	e6.6	30	12	14	67	39	35	4.7
11	6.7	15	12	e8.6	e6.8	26	13	14	55	97	32	4.6
12	7.1	14	13	e8.5	e7.0	28	12	27	47	488	27	4.0
13	7.6	12	13	e8.5	e7.0	25	13	35	42	505	23	3.6
14	7.8	12	14	e8.4	e7.1	24	13	30	41	488	19	3.7
15	8.2	12	15	e8.3	e7.2	25	14	26	39	402	17	3.8
16	9.0	12	13	e8.2	e7.3	23	15	24	39	314	15	3.6
17	8.6	13	12	e8.1	e7.4	21	15	23	38	277	14	3.2
18	8.5	13	13	e8.0	e7.5	19	15	25	40	285	13	3.2
19	8.5	14	12	e7.9	e7.6	20	17	21	36	305	12	3.2
20	8.5	16	e11	e7.7	e7.6	18	20	80	30	263	11	3.4
21	9.0	14	e11	e7.4	e7.6	18	21	159	26	236	11	3.5
22	9.6	14	e10	e7.1	e7.7	17	21	128	23	211	11	3.4
23	9.2	13	e9.8	e6.9	e7.9	18	25	107	33	188	10	3.7
24	9.0	15	e9.5	e6.7	e8.1	18	26	87	46	168	9.5	3.6
25	8.8	14	e9.4	e6.5	e8.8	16	25	72	42	151	8.9	3.3
26	9.4	13	e9.4	e6.4	e11	15	24	62	41	134	8.9	3.2
27	10	14	e9.6	e6.3	e14	15	29	60	37	125	8.4	3.1
28	10	15	e9.9	e6.1	26	15	27	55	46	123	7.7	2.9
29	23	14	e10	e6.1	45	15	25	58	52	116	7.4	2.6
30	22	14	e10	e6.0	---	15	23	78	52	99	7.0	2.2
31	16	---	e10	e6.0	---	15	---	87	---	87	6.6	---
TOTAL	294.8	400	375.6	247.0	270.5	815	516	1418	1646	5402	799.4	121.8
MEAN	9.51	13.3	12.1	7.97	9.33	26.3	17.2	45.7	54.9	174	25.8	4.06
MAX	23	16	16	10	45	55	29	159	92	505	78	6.4
MIN	6.2	12	9.4	6.0	6.0	15	12	12	23	22	6.6	2.2
AC-FT	585	793	745	490	537	1620	1020	2810	3260	10710	1590	242
CFSM	.01	.02	.02	.01	.01	.04	.03	.07	.08	.26	.04	.01
IN.	.02	.02	.02	.01	.02	.05	.03	.08	.09	.30	.04	.01

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	43.3	46.7	29.7	13.9	19.3	224	497	202	275	140	68.6	42.0
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 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1931 - 2000
ANNUAL TOTAL	46623.9	12306.1	
ANNUAL MEAN	128	33.6	142 ^a
HIGHEST ANNUAL MEAN			566
LOWEST ANNUAL MEAN			8.32
HIGHEST DAILY MEAN	940	Apr 13	505
LOWEST DAILY MEAN	4.9	Sep 17	2.2
ANNUAL SEVEN-DAY MINIMUM	6.4	Sep 12	3.0
INSTANTANEOUS PEAK FLOW			536
INSTANTANEOUS PEAK STAGE			4.00
INSTANTANEOUS LOW FLOW			2.1 ^c
ANNUAL RUNOFF (AC-FT)	92480	24410	102900
ANNUAL RUNOFF (CFSM)	.19	.051	.21
ANNUAL RUNOFF (INCHES)	2.61	.69	2.91
10 PERCENT EXCEEDS	366	78	314
50 PERCENT EXCEEDS	24	13	20
90 PERCENT EXCEEDS	7.9	6.1	2.4

- a Median of annual mean discharges is 86 ft³/s.
- b Many days, several years.
- c Falling stage.
- e Estimated

