

Water-Data Report 2013

05311150 MINNESOTA RIVER AT HWY 212 IN GRANITE FALLS, MN

Minnesota Basin
Hawk-Yellow Medicine Subbasin

LOCATION.--Lat 44°48'20", long 95°32'39" referenced to North American Datum of 1983, in SW ¼ SW ¼ sec.34, T.116 N., R.39 W., Yellow Medicine County, MN, Hydrologic Unit 07020004, on right bank about 60 ft upstream of the Hwy 212 bridge over the Minnesota River.

DRAINAGE AREA.--6,390 mi², 6390 square miles, from StreamStats.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 2013 to present. (No winter record)

GAGE.--Water stage recorder. Datum of gage is mean sea level, NAVD88.

REMARKS.--Records good. A diversion channel bypasses the gage to the west and re-enters channel about 500 ft downstream of the gage; flows are minor except at high stages. Bypass flow is included in gage flows.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 7, 1997, peak stage was 899.84 ft. Flood of Apr. 15, 2001, peak stage was 895.89 ft. On Apr. 8 2011 discharge was a measured 23,200 cfs at a stage of 893.87 ft. All were affected by a dam 3.3 miles downstream that was removed March 2013.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	769	3,540	2,850	5,580	1,980	214
2	---	---	---	---	---	---	885	3,660	2,860	5,630	1,650	192
3	---	---	---	---	---	---	1,430	3,740	2,850	5,670	1,470	185
4	---	---	---	---	---	---	1,550	3,780	2,850	5,710	1,420	186
5	---	---	---	---	---	---	1,720	3,790	2,820	5,690	1,470	184
6	---	---	---	---	---	---	2,240	3,810	2,800	5,640	1,400	183
7	---	---	---	---	---	---	2,520	3,830	2,780	5,550	1,440	182
8	---	---	---	---	---	---	2,750	3,870	2,740	5,460	1,500	178
9	---	---	---	---	---	---	2,820	3,920	2,800	5,530	1,390	184
10	---	---	---	---	---	---	2,810	3,930	2,870	5,510	1,170	180
11	---	---	---	---	---	---	2,870	3,930	2,890	5,460	1,090	170
12	---	---	---	---	---	---	3,020	3,930	3,000	5,270	1,060	165
13	---	---	---	---	---	---	3,040	3,920	3,100	4,970	880	161
14	---	---	---	---	---	---	3,050	3,840	3,050	4,630	796	166
15	---	---	---	---	---	---	3,020	3,660	2,950	4,420	786	182
16	---	---	---	---	---	---	3,120	3,500	2,860	4,190	796	172
17	---	---	---	---	---	---	3,160	3,130	2,810	3,920	757	163
18	---	---	---	---	---	---	3,220	2,810	2,900	3,600	737	175
19	---	---	---	---	---	---	3,200	2,700	2,780	3,200	720	225
20	---	---	---	---	---	---	3,170	2,620	2,780	2,970	584	224
21	---	---	---	---	---	---	3,170	2,140	2,930	2,820	418	245
22	---	---	---	---	---	---	3,180	1,870	3,480	2,720	333	317
23	---	---	---	---	---	---	3,160	2,060	4,480	2,730	294	317
24	---	---	---	---	---	---	3,150	2,230	4,760	2,700	261	295
25	---	---	---	---	---	---	3,070	2,310	4,640	2,690	243	265
26	---	---	---	---	---	---	3,060	2,340	4,520	2,690	239	267
27	---	---	---	---	---	---	3,160	2,350	4,630	2,650	222	270
28	---	---	---	---	---	---	3,270	2,360	5,070	2,510	193	260
29	---	---	---	---	---	---	3,260	2,430	5,400	2,380	189	258
30	---	---	---	---	---	---	3,380	2,760	5,470	2,210	186	248
31	---	---	---	---	---	---	---	2,830	---	2,130	193	---
Total	---	---	---	---	---	---	82,224	97,590	102,720	126,830	25,867	6,413
Mean	---	---	---	---	---	---	2,741	3,148	3,424	4,091	834	214
Max	---	---	---	---	---	---	3,380	3,930	5,470	5,710	1,980	317
Min	---	---	---	---	---	---	769	1,870	2,740	2,130	186	161
Ac-ft	---	---	---	---	---	---	163,100	193,600	203,700	251,600	51,310	12,720
Cfsm	---	---	---	---	---	---	0.43	0.49	0.54	0.64	0.13	0.03
In.	---	---	---	---	---	---	0.48	0.57	0.60	0.74	0.15	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2012 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	---	---	---	---	---	---	2,741	3,148	3,424	4,091	834	214
Max	---	---	---	---	---	---	2,741	3,148	3,424	4,091	834	214
(WY)	(---)	(---)	(---)	(---)	(---)	(---)	(2013)	(2013)	(2013)	(2013)	(2013)	(2013)
Min	---	---	---	---	---	---	2,741	3,148	3,424	4,091	834	214
(WY)	(---)	(---)	(---)	(---)	(---)	(---)	(2013)	(2013)	(2013)	(2013)	(2013)	(2013)

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SUMMARY STATISTICS

	Calendar Year 2012	Water Year 2013	Water Years 2012 - 2013
Highest daily mean		5,710 Jul 4	5,710 Jul 4, 2013
Lowest daily mean		^a 161 Sep 13	161 Sep 13, 2013
Annual seven-day minimum		168 Sep 11	168 Sep 11, 2013
Maximum peak flow		5,780 Jul 3	5,780 Jul 3, 2013
Maximum peak stage		884.40 Jul 3	884.40 Jul 3, 2013
Instantaneous low flow		^b 59 Aug 12	59 Aug 12, 2013

^a Due in part to regulation.

^b Due to regulation.

