

Water-Data Report 2012

463749096432500 WOLVERTON CREEK AT CO RD 50 NR COMSTOCK, MN

Upper Red Basin
Upper Red Subbasin

LOCATION.--Lat 46°37'49", long 96°43'25" referenced to North American Datum of 1983, in SW ¼ SE ¼ sec.34, T.134 N., R.48 W., Clay County, MN, Hydrologic Unit 09020104, at culverts on County Road 50, 2.0 miles south and 1.6 miles east of Comstock, MN.

DRAINAGE AREA.--Not determined.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--DAILY DISCHARGE--March to October 2012.

PERIOD OF RECORD.--DAILY GAGE HEIGHT--March to October 2012.

GAGE.--Water-stage recorder. Datum of gage is 921.22 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers, April 19, 2012).

REMARKS.--Records good except for discharges below 5.0 ft³/s and those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 97 ft³/s, July 26, gage height, 26.24 ft, no flow for many days.

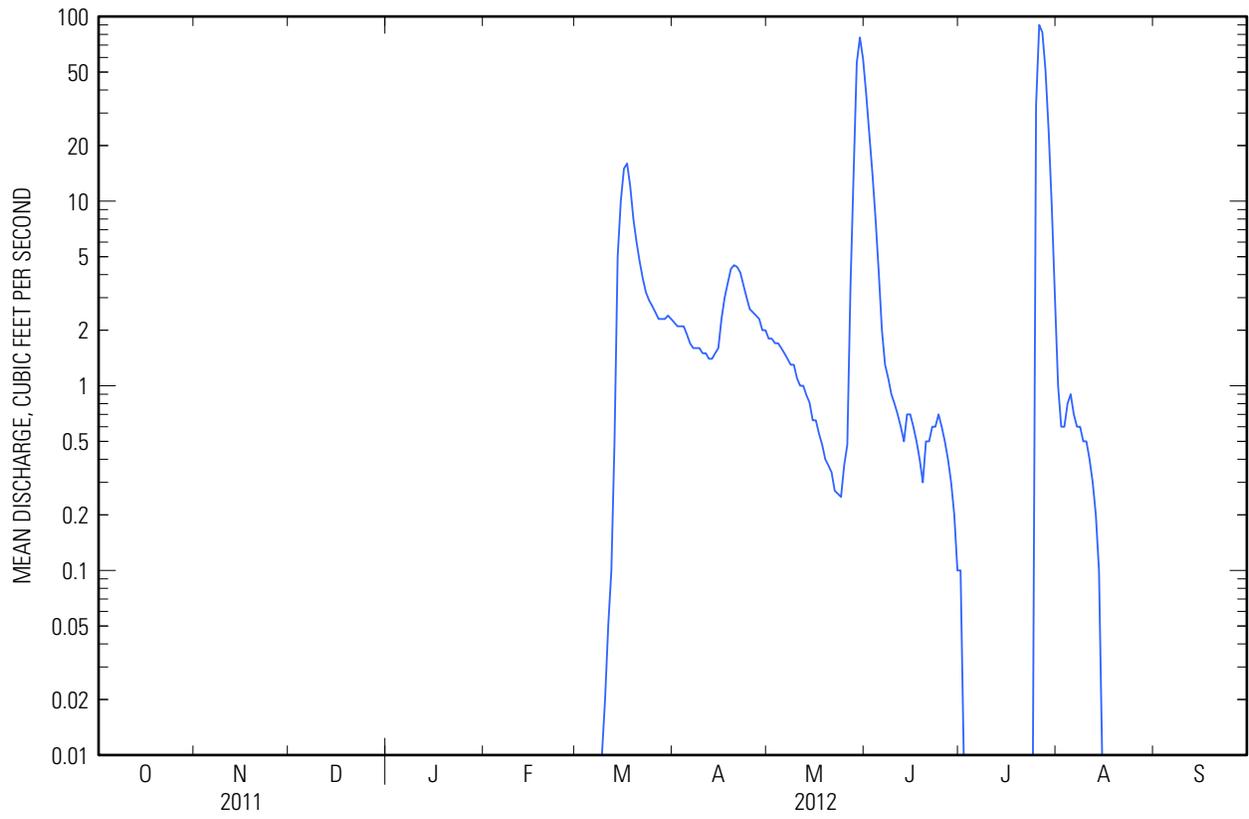
463749096432500 WOLVERTON CREEK AT CO RD 50 NR COMSTOCK, MN—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	e0.00	2.2	1.8	38	e0.10	e1.0	e0.00
2	---	---	---	---	---	e0.00	2.1	1.8	23	e0.00	e0.60	e0.00
3	---	---	---	---	---	e0.00	2.1	1.7	14	e0.00	e0.60	e0.00
4	---	---	---	---	---	e0.00	2.1	1.7	7.9	e0.00	e0.80	e0.00
5	---	---	---	---	---	e0.00	1.9	1.6	4.1	e0.00	e0.90	e0.00
6	---	---	---	---	---	e0.00	1.7	1.5	e2.0	e0.00	e0.70	e0.00
7	---	---	---	---	---	e0.00	1.6	1.4	e1.3	e0.00	e0.60	e0.00
8	---	---	---	---	---	e0.00	1.6	1.3	e1.1	e0.00	e0.60	e0.00
9	---	---	---	---	---	e0.00	1.6	1.3	e0.90	e0.00	e0.50	0.00
10	---	---	---	---	---	e0.02	1.5	1.1	e0.80	e0.00	e0.50	0.00
11	---	---	---	---	---	e0.05	1.5	1.0	e0.70	e0.00	e0.40	0.00
12	---	---	---	---	---	e0.10	1.4	1.0	e0.60	e0.00	e0.30	0.00
13	---	---	---	---	---	e0.50	1.4	0.89	e0.50	e0.00	e0.20	0.00
14	---	---	---	---	---	e5.0	1.5	0.81	e0.70	e0.00	e0.10	0.00
15	---	---	---	---	---	e10	1.6	0.65	e0.70	e0.00	e0.00	0.00
16	---	---	---	---	---	e15	2.3	0.65	e0.60	e0.00	e0.00	0.00
17	---	---	---	---	---	16	3.0	0.55	e0.50	e0.00	e0.00	0.00
18	---	---	---	---	---	12	3.6	0.48	e0.40	e0.00	e0.00	0.00
19	---	---	---	---	---	8.0	4.3	0.40	e0.30	e0.00	e0.00	0.00
20	---	---	---	---	---	6.0	4.5	0.37	e0.50	e0.00	e0.00	0.00
21	---	---	---	---	---	4.7	4.4	0.34	e0.50	e0.00	e0.00	0.00
22	---	---	---	---	---	3.8	4.1	0.27	e0.60	e0.00	e0.00	0.00
23	---	---	---	---	---	3.2	3.5	0.26	e0.60	e0.00	e0.00	0.00
24	---	---	---	---	---	2.9	3.0	0.25	e0.70	e0.00	e0.00	0.00
25	---	---	---	---	---	2.7	2.6	0.37	e0.60	33	e0.00	0.00
26	---	---	---	---	---	2.5	2.5	0.48	e0.50	90	e0.00	0.00
27	---	---	---	---	---	2.3	2.4	3.4	e0.40	82	e0.00	e0.00
28	---	---	---	---	---	2.3	2.3	14	e0.30	51	e0.00	0.00
29	---	---	---	---	---	2.3	2.0	56	e0.20	24	e0.00	0.00
30	---	---	---	---	---	2.4	2.0	77	e0.10	9.3	e0.00	0.00
31	---	---	---	---	---	2.3	---	59	---	e3.0	e0.00	---
Total	---	---	---	---	---	104.07	72.3	233.37	103.10	292.40	7.80	0.00
Mean	---	---	---	---	---	3.36	2.41	7.53	3.44	9.43	0.25	0.00
Max	---	---	---	---	---	16	4.5	77	38	90	1.0	0.00
Min	---	---	---	---	---	0.00	1.4	0.25	0.10	0.00	0.00	0.00
Ac-ft	---	---	---	---	---	206	143	463	204	580	15	0.00

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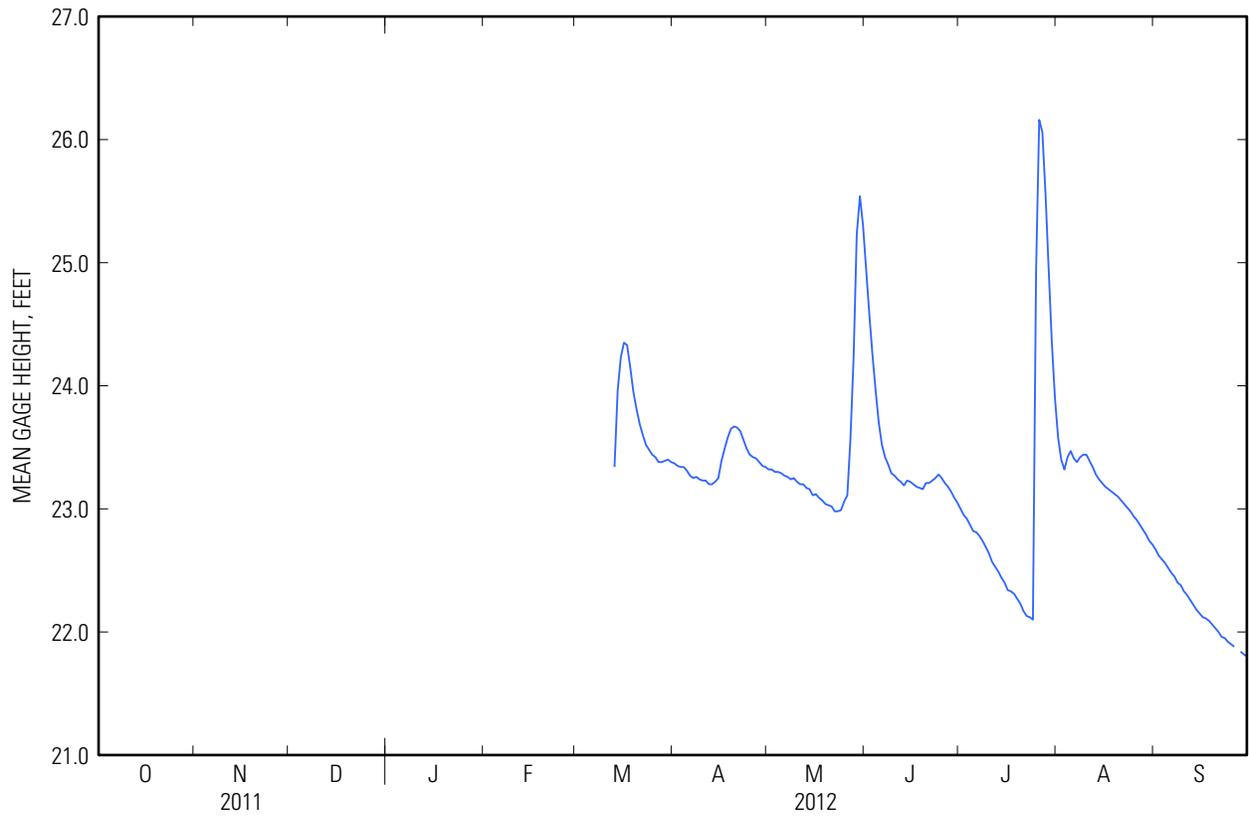


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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	23.37	23.32	24.94	23.00	23.58	22.67
2	---	---	---	---	---	---	23.35	23.32	24.58	22.95	23.40	22.62
3	---	---	---	---	---	---	23.34	23.30	24.25	22.92	23.32	22.59
4	---	---	---	---	---	---	23.34	23.30	23.96	22.87	23.42	22.56
5	---	---	---	---	---	---	23.31	23.29	23.70	22.82	23.47	22.52
6	---	---	---	---	---	---	23.27	23.27	23.52	22.81	23.41	22.48
7	---	---	---	---	---	---	23.25	23.26	23.42	22.78	23.38	22.45
8	---	---	---	---	---	---	23.26	23.24	23.36	22.74	23.42	22.40
9	---	---	---	---	---	---	23.24	23.25	23.29	22.69	23.44	22.38
10	---	---	---	---	---	---	23.23	23.22	23.27	22.64	23.44	22.33
11	---	---	---	---	---	---	23.23	23.20	23.24	22.57	23.39	22.30
12	---	---	---	---	---	---	23.20	23.20	23.22	22.53	23.34	22.26
13	---	---	---	---	---	23.34	23.20	23.17	23.19	22.49	23.28	22.22
14	---	---	---	---	---	23.96	23.22	23.16	23.23	22.44	23.24	22.18
15	---	---	---	---	---	24.23	23.25	23.11	23.22	22.40	23.21	22.15
16	---	---	---	---	---	24.35	23.39	23.12	23.20	22.34	23.18	22.12
17	---	---	---	---	---	24.33	23.49	23.09	23.18	22.33	23.16	22.11
18	---	---	---	---	---	24.15	23.58	23.07	23.17	22.31	23.14	22.09
19	---	---	---	---	---	23.95	23.65	23.04	23.16	22.27	23.12	22.06
20	---	---	---	---	---	23.81	23.67	23.03	23.21	22.23	23.10	22.03
21	---	---	---	---	---	23.69	23.66	23.02	23.21	22.17	23.07	22.00
22	---	---	---	---	---	23.60	23.63	22.98	23.23	22.13	23.04	21.96
23	---	---	---	---	---	23.52	23.56	22.98	23.25	22.12	23.01	21.95
24	---	---	---	---	---	23.48	23.49	22.99	23.28	22.10	22.98	21.92
25	---	---	---	---	---	23.44	23.44	23.06	23.25	24.93	22.94	21.90
26	---	---	---	---	---	23.42	23.42	23.11	23.21	26.16	22.91	21.88
27	---	---	---	---	---	23.38	23.41	23.57	23.18	26.06	22.87	---
28	---	---	---	---	---	23.38	23.38	24.23	23.14	25.56	22.83	21.84
29	---	---	---	---	---	23.39	23.35	25.23	23.09	24.95	22.79	21.82
30	---	---	---	---	---	23.40	23.34	25.54	23.05	24.36	22.74	21.80
31	---	---	---	---	---	23.38	---	25.30	---	23.90	22.71	---
Mean	---	---	---	---	---	23.69	23.38	23.42	23.41	23.12	23.17	22.19
Max	---	---	---	---	---	24.35	23.67	25.54	24.94	26.16	23.58	22.67
Min	---	---	---	---	---	23.34	23.20	22.98	23.05	22.10	22.71	21.80

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--March to July 2012.

WATER-QUALITY DATA

WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

[FNU, Formazin nephelometric units; LED, light-emitting diode; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; nm, nanometers; °C, degrees Celsius; μS/cm, microsiemens per centimeter]

Date	Sample start time	Discharge, instantaneous, ft ³ /s (00061)	Specific conductance, water, unfiltered, μS/cm at 25°C (00095)	Temperature, water, °C (00010)	Turbidity, water, unfiltered, monochrome near infrared LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)
03-19-2012	1700	7.2	1,020	14.7	0.0	86	4	0.08
05-29-2012	1030	54	734	15.4	1.6	58	14	2.0
05-30-2012	0915	79	584	13.0	14	92	14	3.0
07-25-2012	1100	30	104	21.6	79	99	91	7.4
07-26-2012	1220	95	277	22.9	15	89	26	6.7
07-27-2012	1220	83	392	22.3	1.4	99	13	2.9