Water-Data Report 2013

06927240 AUXVASSE CREEK NEAR REFORM, MO

Lower Missouri Basin

LOCATION.--Lat 38°45′36″, long 91°50′25″ referenced to North American Datum of 1983, in SE ¼ SW ¼ NE ¼ sec.17, T.46 N., R.8 W., Callaway County, MO, Hydrologic Unit 10300102, on the right downstream wing-wall of county road 428 bridge, approximately 7 mi upstream from Missouri River, and 3 mi west of Reform.

DRAINAGE AREA.--292 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 25, 2008 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 522 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow is affected by backwater from the Missouri River.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown, May 31, gage height, 23.46 ft, affected by backwater from the Missouri River; minimum discharge, 0.95 ft^3/s, Sept. 28, gage height, 1.97 ft.

06927240 AUXVASSE CREEK NEAR REFORM, MO—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated; &, affected value]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.0	6.9	4.9	6.8	e83	105	203	111	e6,900	24	7.8	2.6
2	3.7	6.3	5.5	e6.3	57	86	150	90	e1,660	21	8.0	2.9
3	4.0	6.0	6.8	5.8	42	71	123	302	e412	20	7.9	2.7
4	3.7	5.5	9.6	5.7	35	75	103	1,030	e337	18	7.4	2.5
5	3.8	5.2	11	5.6	29	182	83	271	e236	17	6.8	2.4
6	4.3	5.4	8.0	5.9	25	157	66	e289	e194	17	6.2	2.8
7	5.1	5.5	7.4	5.0	25	130	53	e228	e149	15	e6.0	3.0
8	4.0	5.8	7.4	5.7	26	227	45	140	e148	15	e5.6	4.0
9	3.1	5.6	7.2	5.8	25	1,960	39	108	e146	14	e5.9	7.1
10	3.1	4.9	6.4	6.5	40	5,510	311	99	&130	18	e5.3	2.8
11	3.3	5.3	5.3	8.1	71	2,340	2,970	95	101	21	4.7	1.9
12	3.2	9.9	5.5	9.3	50	1,360	e375	82	91	17	4.8	2.0
13	3.8	9.9	5.6	10	38	504	e163	70	e80	15	5.6	2.1
14	30	7.8	5.5	e13	32	185	e90	58	e70	14	5.3	2.1
15	19	7.0	8.3	e15	26	153	80	51	62	13	4.6	2.2
16	11	6.4	13	e12	23	133	3,530	49	122	12	3.9	2.3
17	10	6.7	9.5	8.7	22	121	1,040	47	e172	11	3.7	2.7
18	20	6.5	8.8	7.8	21	236	8,940	46	e110	11	3.6	3.3
19	18	6.1	8.5	8.3	25	209	e2,810	39	e69	10	3.3	3.5
20	12	6.1	9.7	7.8	24	154	e859	79	e61	9.7	3.2	4.5
21	9.3	5.9	9.7	6.5	22	122	e472	698	e55	10	3.1	5.3
22	8.3	5.7	9.1	5.9	24	104	e337	170	50	11	3.1	2.6
23	35	5.4	9.0	e5.9	e25	90	e398	98	43	12	3.1	1.6
24	53	5.5	8.3	6.0	e24	108	e561	72	47	9.5	3.1	1.2
25	23	5.1	8.1	6.2	27	140	e416	62	46	8.7	3.2	1.2
26	16	5.5	7.2	6.0	140	147	e140	111	39	9.3	2.7	1.2
27	12	4.5	6.9	6.3	213	220	127	4,130	34	11	2.4	1.2
28	9.8	4.6	7.0	7.1	137	410	327	2,910	31	9.1	2.3	1.1
29	8.3	4.7	6.8	67	---	446	209	e355	28	7.5	2.4	1.4
30	7.3	5.0	e6.4	426	---	229	140	e225	26	7.5	2.6	1.8
31	7.4	---	6.3	157	---	245	---	e12,000	---	8.3	2.4	---
Mean	11.6	6.02	7.70	27.7	47.5	521	839	778	388	13.4	4.52	2.60
Max	53	9.9	13	426	213	5,510	8,940	12,000	6,900	24	8.0	7.1
Min	3.1	4.5	4.9	5.0	21	71	39	39	26	7.5	2.3	1.1
In.	0.05	0.02	0.03	0.11	0.17	2.06	3.21	3.07	1.48	0.05	0.02	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2013, BY WATER YEAR (WY)

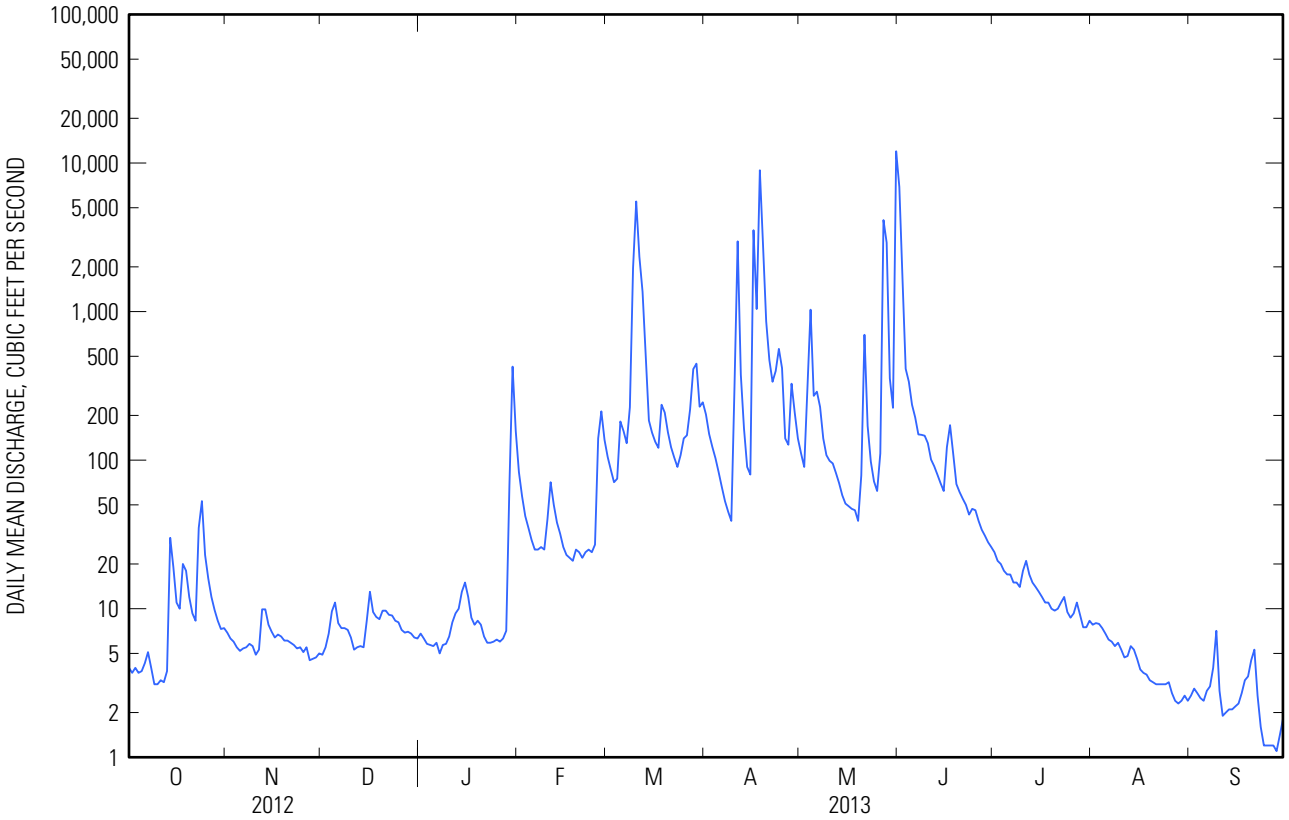
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	272	133	246	192	398	496	739	656	290	546	140	507
Max	1,249	589	682	758	873	797	1,022	1,094	749	1,736	372	1,902
(WY)	(2010)	(2010)	(2010)	(2010)	(2011)	(2011)	(2010)	(2011)	(2009)	(2008)	(2010)	(2008)
Min	4.92	6.02	7.70	16.5	47.5	217	569	309	7.94	4.03	1.33	2.60
(WY)	(2012)	(2013)	(2013)	(2012)	(2013)	(2012)	(2008)	(2012)	(2012)	(2012)	(2012)	(2013)

06927240 AUXVASSE CREEK NEAR REFORM, MO—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2008 - 2013	
Annual mean	122		221		337	
Highest annual mean					723	2010
Lowest annual mean					134	2012
Highest daily mean	6,470	Apr 30	12,000	May 31	25,300	Sep 14, 2008
Lowest daily mean	0.41	Jul 24	1.1	Sep 28	0.41	Jul 24, 2012
Annual seven-day minimum	0.68	Jul 22	1.3	Sep 23	0.68	Jul 22, 2012
Maximum peak flow			Unknown	May 31	Unknown	Sep 14, 2008
Maximum peak stage			[a]23.46	May 31	[a]27.74	Sep 14, 2008
Instantaneous low flow			0.95	Sep 28	0.38	Jul 24, 2012
Annual runoff (inches)	5.71		10.28		15.70	
10 percent exceeds	179		240		708	
50 percent exceeds	9.1		12		52	
90 percent exceeds	1.4		3.2		5.0	

[a] Affected by backwater from the Missouri River



06927240 AUXVASSE CREEK NEAR REFORM, MO—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
OBSERVATION AT 0800
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.86	2.00	1.93	1.98	e2.89	3.05	3.58	2.00	21.23	2.23	2.03	1.96
2	1.84	1.98	1.92	e1.95	2.68	2.91	3.26	1.83	18.54	2.20	2.03	1.98
3	1.86	1.97	1.99	e1.96	2.51	2.76	3.07	1.77	18.01	2.17	2.05	1.97
4	1.84	1.95	2.07	1.92	2.40	2.76	2.93	6.24	16.41	2.15	2.03	1.97
5	1.84	1.95	2.12	1.94	2.32	3.58	2.78	2.82	13.27	2.14	2.02	1.97
6	1.85	1.95	2.02	1.96	2.26	3.43	2.63	2.57	9.61	2.13	2.00	1.99
7	1.91	1.96	2.00	1.91	2.23	3.19	2.51	3.08	6.76	2.11	2.00	2.01
8	1.86	1.95	2.01	1.95	2.29	3.57	2.42	2.19	5.04	2.09	5.66	2.02
9	1.81	1.96	2.01	1.97	2.27	5.26	2.35	1.94	3.48	2.08	4.34	2.20
10	1.81	1.93	1.98	1.97	2.28	11.53	2.31	1.88	3.14	2.08	2.05	2.02
11	1.83	1.91	1.91	2.02	2.82	8.38	10.76	1.86	2.95	2.24	1.97	1.97
12	1.82	2.01	1.92	2.05	2.59	7.21	4.71	1.77	2.81	2.14	1.95	1.97
13	1.81	2.08	1.94	2.08	2.47	5.09	4.67	1.67	3.00	2.12	2.01	1.98
14	2.30	2.01	1.96	e2.04	2.36	3.46	2.86	1.55	2.79	2.10	2.01	1.99
15	2.25	2.01	2.03	---	2.29	3.27	2.65	1.46	2.61	2.09	1.98	2.00
16	2.08	1.97	2.15	e2.04	2.20	3.14	10.96	1.45	3.24	2.07	1.96	2.01
17	1.99	1.98	2.07	2.03	2.22	3.03	6.49	1.43	3.10	2.06	1.95	2.02
18	2.17	2.00	2.05	2.00	2.17	3.76	12.90	1.44	5.91	2.05	1.95	2.07
19	2.23	1.97	2.03	2.02	2.22	3.63	10.06	1.34	5.18	2.04	1.95	2.07
20	2.09	1.97	2.06	2.02	2.23	3.30	9.94	1.43	4.39	2.02	1.94	2.10
21	2.03	1.97	2.03	1.98	2.19	3.03	9.04	5.30	2.82	2.03	1.94	2.17
22	2.00	1.96	2.02	1.96	2.24	2.94	8.46	e2.42	2.53	2.04	1.94	2.05
23	2.06	1.95	2.04	e1.96	e2.23	2.83	7.46	1.92	2.44	2.10	1.95	2.00
24	2.72	1.95	2.04	1.94	e2.23	2.84	6.74	1.69	2.45	2.05	1.95	1.97
25	2.32	1.94	1.99	1.97	2.25	3.17	4.39	1.56	2.51	2.03	1.96	1.97
26	2.20	1.96	1.99	1.96	2.87	3.20	2.29	2.05	2.42	2.02	1.95	1.98
27	2.11	1.89	1.99	1.97	3.78	3.58	1.99	5.61	2.36	2.10	1.93	1.98
28	2.06	1.91	2.01	2.00	3.29	4.46	3.23	8.61	2.32	2.05	1.93	1.97
29	2.03	1.92	1.99	2.01	---	4.84	2.60	4.55	2.27	2.01	1.94	2.00
30	2.00	1.94	e1.94	4.68	---	3.70	2.16	5.81	2.27	2.01	1.95	2.05
31	2.01	---	1.96	3.47	---	3.63	---	13.10	---	2.04	1.95	---
Mean	2.02	1.96	2.01	---	2.46	4.02	5.07	3.04	5.86	2.09	2.17	2.01
Max	2.72	2.08	2.15	---	3.78	11.53	12.90	13.10	21.23	2.24	5.66	2.20
Min	1.81	1.89	1.91	---	2.17	2.76	1.99	1.34	2.27	2.01	1.93	1.96