Water-Data Report 2012

07067000 CURRENT RIVER AT VAN BUREN, MO

Upper White Basin
Current Subbasin

LOCATION.--Lat 36°59'29.0", long 91°00'48.6" referenced to North American Datum of 1983, in NE ¼ NW ¼ sec.25, T.27 N., R.1 W., Carter County, MO, Hydrologic Unit 11010008, near right bank on downstream side of bridge pier on U.S. Highway 60 in Van Buren, 0.4 mi downstream from Pike Creek, 4.7 mi upstream from Big Creek, and at mile 90.4.

DRAINAGE AREA.--1,667 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1912 to current year. Prior to July 1921 monthly discharge only, published in WSP 1311.

REVISED RECORDS.--WSP 877: 1938. WSP 897: 1939. WSP 927: Drainage area. WSP 1281: 1929.

GAGE.--Water-stage recorder. Datum of gage is 442.78 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 1, 1926, nonrecording gage at site 100 ft downstream at datum 3.00 ft higher; Sept. 1, 1926, to Oct. 19, 1934, nonrecording gage and Oct. 20, 1934, to Sept. 30, 1939, water-stage recorder, at present site and datum 3.00 ft higher.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1904, reached a stage of 29.0 ft, present datum, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 14,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 23	0830	*5,240	*5.70

Minimum discharge, 661 ft^3/s, Aug. 11, gage height, 1.84 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 07067000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/07067000.2012.pdf

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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	1,120	832	1,510	2,130	1,910	1,630	1,880	1,080	889	782	703	1,000
2	1,080	827	1,380	2,090	1,890	1,620	1,840	1,060	877	780	713	908
3	1,040	881	1,290	2,040	1,850	1,580	1,780	1,050	870	798	718	868
4	1,020	898	1,430	1,980	1,970	1,520	1,720	1,040	875	784	710	822
5	1,000	890	1,970	1,880	2,860	1,440	1,650	1,020	862	771	727	791
6	986	868	2,260	1,810	2,870	1,390	1,620	1,010	844	783	727	791
7	969	855	1,990	1,750	2,410	1,330	1,550	1,080	838	773	715	817
8	946	1,100	1,900	1,670	2,100	1,490	1,460	1,150	834	783	702	827
9	932	1,780	e1,820	1,590	1,930	1,630	1,380	1,040	827	796	695	793
10	917	1,670	e1,780	1,550	1,910	1,560	1,330	1,000	827	809	686	784
11	916	1,590	e1,750	1,830	1,890	1,550	1,270	983	884	794	675	759
12	938	1,380	1,730	1,860	1,860	1,810	1,220	975	966	781	684	743
13	1,030	1,240	1,720	1,770	1,830	1,930	1,180	961	923	765	690	728
14	1,020	1,150	1,840	1,680	1,830	1,930	1,160	951	894	768	686	722
15	974	1,110	3,810	1,590	1,830	1,910	1,170	941	870	770	686	768
16	942	1,060	3,960	1,540	1,910	2,170	1,440	950	854	767	688	839
17	921	974	3,080	1,520	2,640	3,410	1,500	928	1,000	773	761	811
18	954	921	2,440	1,450	2,570	2,870	1,430	921	1,060	754	797	807
19	987	896	2,170	1,410	2,290	2,350	1,350	915	951	747	762	798
20	954	942	2,140	1,360	2,060	2,060	1,330	912	898	741	733	774
21	933	1,400	2,410	1,320	1,930	1,930	1,310	912	865	732	709	774
22	913	2,390	2,710	1,290	1,920	2,630	1,270	909	848	718	708	754
23	902	3,580	2,310	1,280	1,910	4,760	1,230	895	837	711	690	734
24	889	2,420	2,130	1,220	1,900	3,700	1,190	887	822	707	683	721
25	876	1,910	2,100	1,360	1,860	3,010	1,170	883	815	701	683	714
26	875	1,850	2,080	1,960	1,790	2,530	1,150	879	805	725	702	787
27	915	1,820	2,170	3,500	1,690	2,200	1,130	870	796	729	723	1,060
28	892	1,750	2,460	3,060	1,620	2,000	1,110	858	791	729	747	938
29	864	1,770	2,630	2,400	1,650	1,920	1,100	853	788	715	731	953
30	851	1,650	2,410	2,030	---	1,910	1,080	882	786	718	720	938
31	839	---	2,190	1,920	---	1,890	---	899	---	710	889	---
Mean	948	1,413	2,180	1,801	2,023	2,118	1,367	958	867	755	718	817
Max	1,120	3,580	3,960	3,500	2,870	4,760	1,880	1,150	1,060	809	889	1,060
Min	839	827	1,290	1,220	1,620	1,330	1,080	853	786	701	675	714
In.	0.66	0.95	1.51	1.25	1.31	1.47	0.91	0.66	0.58	0.52	0.50	0.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2012[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,113	1,722	1,906	1,990	2,254	2,861	3,448	3,125	2,058	1,308	1,076	1,043
Max	4,799	7,171	10,740	7,357	6,764	10,010	11,730	11,150	9,761	6,465	3,581	3,860
(WY)	(2010)	(1994)	(1983)	(1950)	(1985)	(2008)	(1927)	(2002)	(1928)	(1951)	(1927)	(1993)
Min	492	573	535	538	658	778	805	679	628	575	532	495
(WY)	(1957)	(1955)	(1956)	(1956)	(1934)	(1941)	(1956)	(1936)	(1936)	(1936)	(1954)	(1956)

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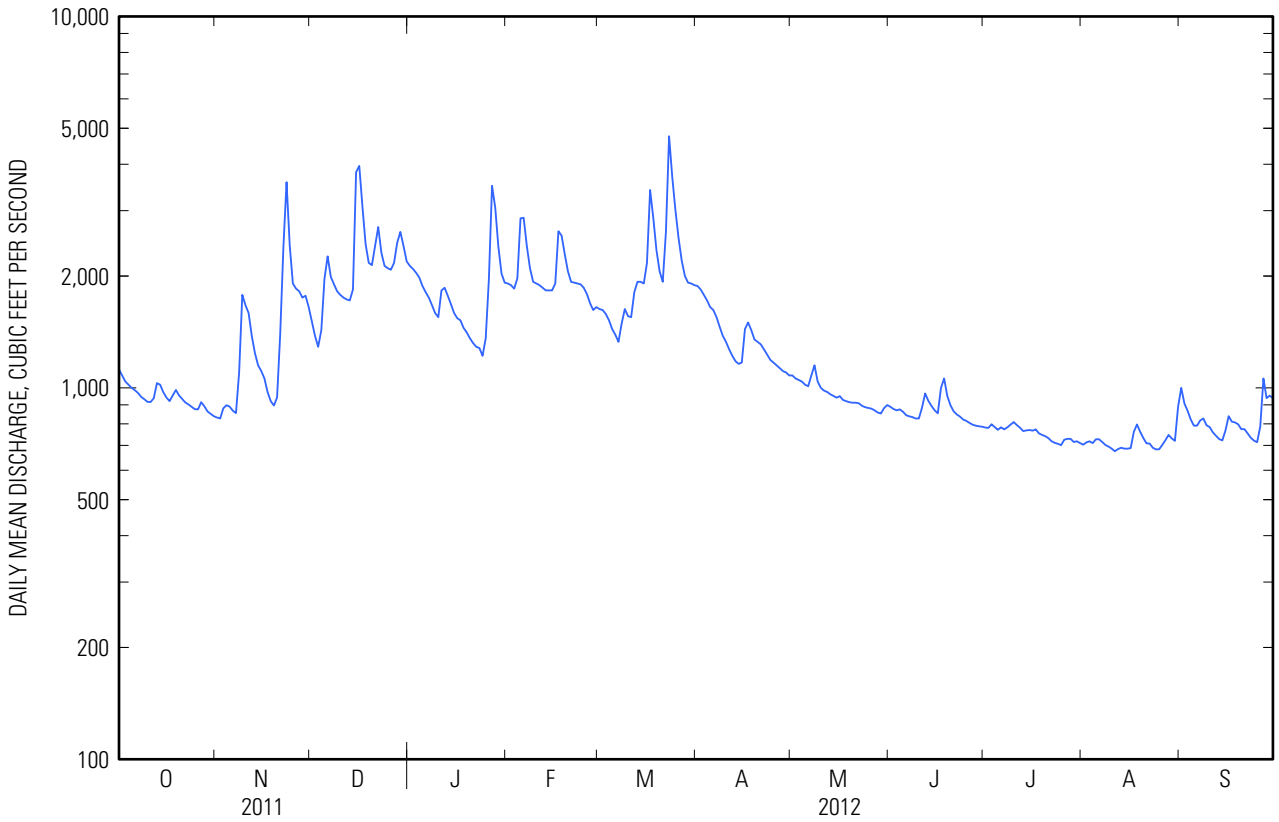
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1921 - 2012[a]	
Annual mean	2,616		1,329		1,988	
Highest annual mean					4,811	1985
Lowest annual mean					799	1954
Highest daily mean	55,100	Apr 26	4,760	Mar 23	72,000	Nov 15, 1993
Lowest daily mean	801	Jan 31	675	Aug 11	476	Oct 8, 1956
Annual seven-day minimum	809	Jan 25	685	Aug 10	479	Oct 6, 1956
Maximum peak flow			5,240	Mar 23	125,000	Aug 21, 1915
Maximum peak stage			5.70	Mar 23	27.39	Nov 15, 1993
Instantaneous low flow			661	Aug 11	473	Oct 7, 1956
Annual runoff (inches)	21.31		10.85		16.21	
10 percent exceeds	3,980		2,150		3,720	
50 percent exceeds	1,460		1,040		1,260	
90 percent exceeds	875		729		700	

[a] For Period of Record



07067000 CURRENT RIVER AT VAN BUREN, MO—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
OBSERVATION AT 0800

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.62	2.21	3.26	3.80	3.78	3.53	3.76	2.64	2.28	2.06	1.92	2.49
2	2.56	2.20	3.11	3.77	3.77	3.51	3.73	2.62	2.26	2.05	1.93	2.33
3	2.51	2.31	2.99	3.74	3.73	3.47	3.69	2.58	2.23	2.09	1.97	2.24
4	2.48	2.31	3.01	3.69	3.77	3.41	3.61	2.56	2.25	2.07	1.92	2.13
5	2.46	2.31	3.64	3.61	4.23	3.34	3.55	2.54	2.22	2.03	1.96	2.06
6	2.43	2.27	3.96	3.55	4.52	3.27	3.52	2.52	2.18	2.10	1.97	2.04
7	2.41	2.24	3.71	3.49	4.19	3.21	3.45	2.62	2.17	2.03	1.96	2.11
8	2.38	2.23	3.62	3.41	3.96	3.33	3.36	2.82	2.16	2.07	1.93	2.16
9	2.35	3.28	3.60	3.33	3.80	3.53	3.26	2.58	2.15	2.04	1.91	2.06
10	2.33	3.22	---	3.25	3.78	3.46	3.20	2.50	2.14	2.10	1.90	2.06
11	2.33	3.17	---	3.51	3.77	3.39	3.14	2.46	2.15	2.09	1.89	2.01
12	2.34	2.94	---	3.61	3.75	3.64	3.07	2.44	2.43	2.06	1.90	1.99
13	2.47	2.77	3.42	3.51	3.72	3.79	3.02	2.42	2.35	2.02	1.91	1.97
14	2.49	2.66	3.52	3.42	3.72	3.80	2.99	2.40	2.30	2.02	1.90	1.92
15	2.42	2.63	4.77	3.33	3.71	3.79	2.98	2.38	2.25	2.04	1.89	1.93
16	2.38	2.55	4.98	3.27	3.76	3.78	3.23	2.37	2.20	2.04	1.88	2.12
17	2.34	2.43	4.50	3.27	4.34	4.83	3.33	2.36	2.67	2.04	2.01	2.11
18	2.35	2.34	4.06	3.18	4.29	4.51	3.24	2.34	2.66	2.01	2.09	2.10
19	2.44	2.30	3.82	3.13	4.10	4.15	3.12	2.33	2.42	2.00	2.02	2.09
20	2.39	2.31	3.81	3.07	3.92	3.92	3.04	2.32	2.30	1.99	1.95	2.04
21	2.36	2.99	3.82	3.03	3.80	3.80	3.03	2.31	2.24	1.98	1.92	2.05
22	2.33	3.67	4.25	2.98	3.79	3.79	2.97	2.32	2.20	1.96	1.90	1.99
23	2.31	4.82	3.96	2.98	3.78	5.69	2.90	2.29	2.16	1.94	1.90	1.96
24	2.29	4.10	3.80	2.91	3.78	4.99	2.84	2.27	2.14	1.94	1.89	1.96
25	2.28	3.63	3.78	2.95	3.75	4.59	2.80	2.27	2.12	1.93	1.89	1.94
26	2.26	3.57	3.75	3.70	3.69	4.27	2.78	2.26	2.11	1.92	1.92	1.93
27	2.33	3.55	3.80	4.85	3.60	4.03	2.74	2.24	2.08	1.96	1.94	2.81
28	2.30	3.49	3.97	4.65	3.51	3.87	2.70	2.22	2.07	1.96	1.99	2.37
29	2.26	3.53	4.17	4.20	3.58	3.79	2.67	2.20	2.07	1.94	1.98	2.38
30	2.24	3.40	4.02	3.90	---	3.78	2.64	2.23	2.06	1.96	1.97	2.39
31	2.21	---	3.86	3.79	---	3.77	---	2.26	---	1.94	2.09	---
Mean	2.38	2.91	---	3.51	3.86	3.87	3.15	2.41	2.23	2.01	1.94	2.12
Max	2.62	4.82	---	4.85	4.52	5.69	3.76	2.82	2.67	2.10	2.09	2.81
Min	2.21	2.20	---	2.91	3.51	3.21	2.64	2.20	2.06	1.92	1.88	1.92