

Water-Data Report 2013

06926000 OSAGE RIVER NEAR BAGNELL, MO

Lower Missouri Basin
Osage Subbasin

LOCATION.--Lat 38°11'29", long 92°36'26" referenced to North American Datum of 1927, in NW ¼ NE ¼ SE ¼ sec.29, T.40 N., R.15 W., Miller County, MO, Hydrologic Unit 10290111, on center pier of U.S. Highway 54 bridge, 1.3 mi downstream from hydroelectric plant of AmerenUE of Missouri, 3.5 miles upstream from Bagnell, and at mile 80.5.

DRAINAGE AREA.--14,000 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1880 to current year. Monthly discharge only for some periods published in WSP 1310. Gage-height records collected in this vicinity 1880-1931 are contained in reports of the Missouri River Commission or the National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 549.13 ft above National Geodetic Vertical Datum of 1929 (levels by the Missouri State Highway and Transportation Commission). Nonrecording gage from October 1880 to Oct. 15, 1930, and recording gage from Oct. 15, 1930, to Sept. 30, 1979, at site 1.7 mi downstream at datum 0.56 ft lower.

REMARKS.--No estimated daily discharges. Records fair. Flow completely regulated by Bagnell Dam, Lake of the Ozarks, capacity of 1,218,000 acre-ft, 1.3 mi upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage prior to 1943, 43.1 ft in June 1844 (former site and datum), discharge, 164,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 66,000 ft³/s, Aug. 7, gage height, 25.44 ft; minimum discharge, 945 ft³/s, Oct. 1, 6, 7, gage height, 1.30 ft.

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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	957	1,280	1,080	1,200	1,140	7,760	13,200	35,000	14,800	30,100	2,310	1,830
2	964	1,300	1,160	1,190	1,120	4,260	27,800	30,400	9,710	24,300	4,920	1,660
3	1,080	1,070	1,130	1,190	1,130	3,780	23,000	29,000	5,650	17,800	2,550	1,820
4	2,400	1,060	1,100	1,180	1,150	4,690	26,300	32,600	8,200	13,400	5,180	1,370
5	1,050	1,230	1,110	1,170	1,120	8,160	27,200	34,400	28,100	3,900	15,200	1,210
6	953	1,050	1,190	1,200	1,120	17,500	21,800	35,100	37,600	2,910	29,900	3,740
7	957	1,510	1,210	1,330	3,750	17,900	23,200	35,800	37,300	2,540	58,100	3,300
8	1,110	1,110	1,190	1,220	4,900	11,400	27,600	35,800	30,100	8,870	54,700	3,380
9	1,120	1,070	1,190	1,190	1,170	4,850	27,700	35,900	33,000	13,800	22,600	5,930
10	2,640	1,060	1,170	1,210	1,060	8,300	30,100	35,300	34,800	14,100	32,400	13,500
11	1,190	1,090	1,170	1,210	2,980	25,900	29,900	31,000	32,700	2,730	23,100	16,100
12	1,100	1,090	1,160	1,210	6,250	31,500	32,100	31,600	32,200	1,830	36,800	13,100
13	1,090	1,080	1,170	1,190	4,780	33,500	32,300	32,800	32,900	1,970	39,200	2,570
14	1,110	1,090	1,180	1,190	4,270	33,900	33,200	32,900	33,300	1,960	25,700	1,030
15	1,090	1,170	1,180	1,190	5,650	33,700	33,800	36,000	28,600	2,780	26,200	1,020
16	1,150	1,100	1,200	1,330	1,570	17,200	34,400	29,000	27,900	3,310	31,800	1,040
17	1,120	1,100	1,090	1,340	1,070	18,300	34,000	27,900	26,500	3,390	30,200	1,010
18	1,170	1,100	1,070	1,190	1,080	22,500	38,500	24,700	28,000	3,220	28,700	1,130
19	2,490	1,270	1,070	1,180	1,090	19,000	27,900	23,600	30,500	6,620	30,900	1,060
20	1,210	1,310	1,130	1,190	7,100	25,000	9,710	27,400	30,500	5,150	29,600	1,020
21	1,120	1,770	1,070	1,180	6,930	25,900	12,400	27,900	33,500	1,670	29,000	1,030
22	1,130	1,080	1,070	1,180	4,260	28,100	23,100	28,100	31,900	5,730	28,100	1,360
23	1,170	1,090	1,080	1,200	1,420	11,200	35,300	27,200	28,400	6,520	32,500	1,070
24	1,200	1,080	1,080	1,210	1,080	8,670	34,600	16,000	31,700	3,530	21,000	1,010
25	1,200	1,080	1,090	1,490	1,110	13,500	35,300	12,200	31,700	1,680	16,800	1,020
26	1,290	1,090	1,090	1,330	3,640	14,200	35,400	15,900	31,900	1,170	11,200	1,010
27	1,380	1,070	1,080	1,210	3,500	19,600	35,700	15,200	31,900	1,400	5,170	1,010
28	1,410	1,080	1,090	1,220	6,900	19,100	35,700	21,900	28,800	1,160	14,100	1,020
29	1,370	1,070	1,180	1,170	---	13,300	35,200	24,000	25,100	1,160	10,500	1,030
30	1,350	1,070	1,170	1,260	---	7,900	35,000	29,400	25,100	1,160	10,300	994
31	1,290	---	1,190	1,170	---	6,600	---	24,800	---	1,150	3,130	---
Mean	1,286	1,154	1,134	1,223	2,941	16,680	29,050	28,350	28,080	6,162	22,960	2,912
Max	2,640	1,770	1,210	1,490	7,100	33,900	38,500	36,000	37,600	30,100	58,100	16,100
Min	953	1,050	1,070	1,170	1,060	3,780	9,710	12,200	5,650	1,150	2,310	994
In.	0.11	0.09	0.09	0.10	0.22	1.37	2.32	2.34	2.24	0.51	1.89	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2013^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,898	8,152	7,680	8,300	10,070	13,810	15,860	16,720	15,830	10,150	5,187	5,779
Max	67,300	45,270	45,050	41,920	34,720	57,300	70,040	92,260	78,160	96,780	26,560	54,540
(WY)	(1987)	(1987)	(1993)	(2005)	(1949)	(1973)	(1973)	(1943)	(1935)	(1951)	(1993)	(1951)
Min	471	474	542	554	535	359	452	516	515	492	510	486
(WY)	(1957)	(2007)	(2003)	(2001)	(1964)	(1931)	(1931)	(1956)	(1931)	(1931)	(1956)	(1954)

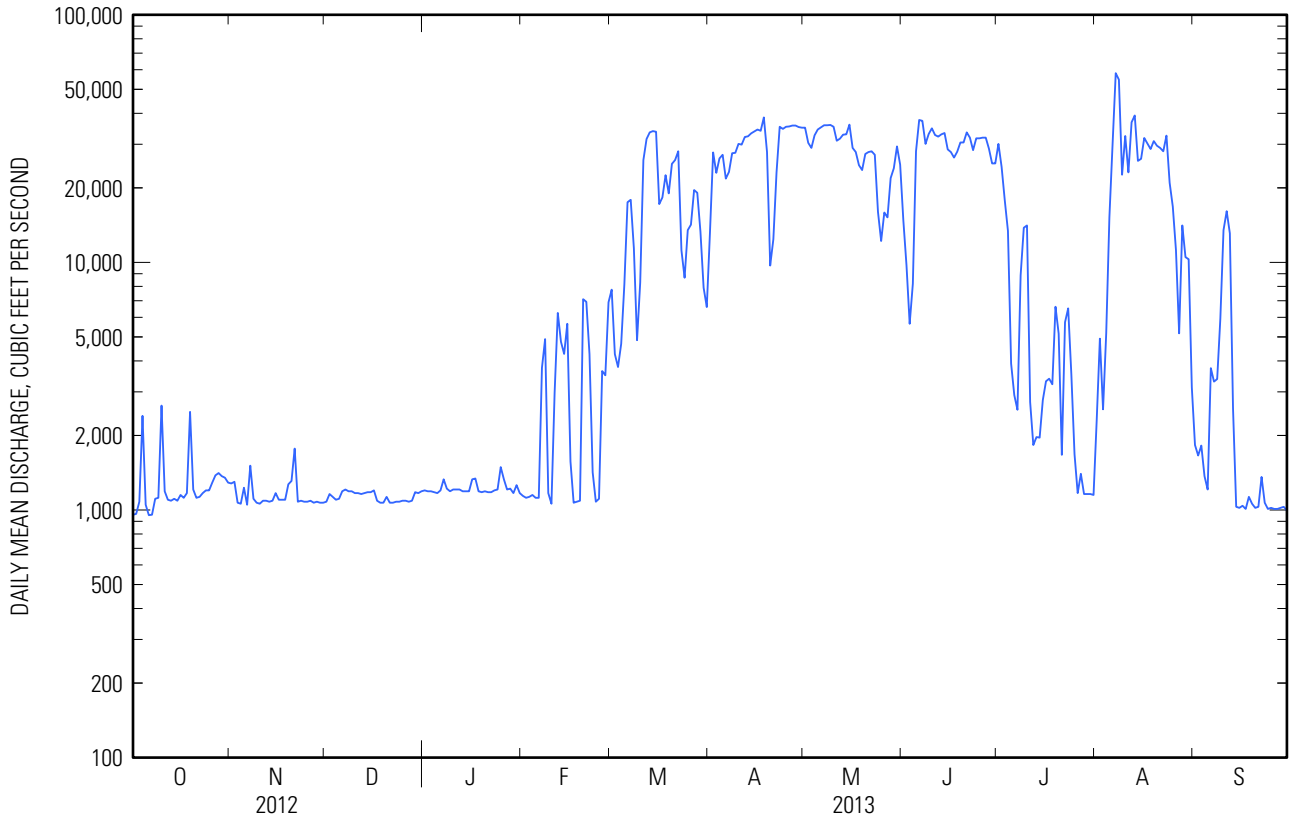
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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1931 - 2013 ^a	
Annual mean	5,705		11,860		10,360	
Highest annual mean					23,360	1973
Lowest annual mean					1,046	1954
Highest daily mean	38,200	Apr 1	58,100	Aug 7	212,000	May 19, 1943
Lowest daily mean	916	Sep 3	953	Oct 6	235	Apr 23, 1971
Annual seven-day minimum	942	Aug 28	1,010	Sep 24	320	Mar 3, 1931
Maximum peak flow			66,000	Aug 7	220,000	May 19, 1943
Maximum peak stage			25.44	Aug 7	48.80	May 19, 1943
Instantaneous low flow			945	Oct 1 ^b	183	Sep 9, 1969
Annual runoff (inches)	5.55		11.51		10.06	
10 percent exceeds	19,600		32,800		31,100	
50 percent exceeds	1,260		3,310		4,020	
90 percent exceeds	995		1,080		513	

^a Period of Regulated Streamflow

^b Also Oct 6, 7



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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	1.31	1.57	1.42	1.56	1.45	5.08	9.43	16.16	7.28	13.30	1.52	2.43
2	1.31	1.70	1.52	1.57	1.48	4.20	12.65	14.77	5.41	12.31	1.55	2.17
3	1.42	1.44	1.52	1.55	1.48	3.87	11.02	14.30	5.01	6.57	2.03	2.15
4	1.37	1.43	1.44	1.54	1.47	3.87	13.31	15.39	4.85	6.09	1.60	1.91
5	1.44	1.95	1.42	1.54	1.48	7.55	14.33	15.93	14.04	3.79	2.51	1.76
6	1.31	1.40	1.55	1.54	1.47	9.62	9.98	16.00	16.86	2.95	14.30	2.07
7	1.30	1.40	1.68	1.72	6.23	10.79	11.32	16.38	16.91	2.93	25.26	2.17
8	1.59	1.53	1.55	1.56	11.00	9.11	13.83	16.40	12.88	2.91	23.11	1.98
9	1.49	1.44	1.55	1.54	1.51	4.41	13.23	16.38	13.99	3.44	9.56	2.65
10	1.50	1.43	1.54	1.61	1.42	4.28	13.14	16.14	15.09	6.81	17.73	2.60
11	1.63	1.44	1.52	1.70	2.08	12.14	13.68	14.41	14.69	3.06	8.29	3.67
12	1.47	1.44	1.52	1.57	6.35	15.36	15.29	15.33	12.94	2.11	16.89	3.10
13	1.46	1.43	1.53	e1.56	7.67	15.69	15.38	15.40	13.80	2.29	17.44	3.19
14	1.51	1.45	1.54	1.62	8.48	15.73	15.58	13.91	14.86	2.35	11.77	1.52
15	1.43	1.68	1.54	1.56	7.32	15.67	15.89	16.42	12.09	2.30	12.70	1.48
16	1.57	1.45	1.56	1.55	1.84	7.93	16.18	13.64	12.76	2.13	14.10	1.56
17	1.48	1.45	1.49	1.69	1.42	10.98	15.77	11.93	12.05	2.23	13.97	1.47
18	1.63	1.46	1.40	1.56	1.40	13.30	17.36	11.61	15.27	1.87	12.85	1.46
19	1.53	1.54	1.41	1.52	1.50	e11.84	16.42	9.57	15.51	1.73	13.35	1.52
20	1.58	1.71	1.51	1.55	7.97	11.54	7.13	12.13	11.61	1.98	12.36	1.48
21	1.50	2.73	1.42	1.53	6.31	13.25	8.42	11.95	14.87	1.93	10.96	1.49
22	1.49	1.43	1.42	1.53	5.83	14.21	10.49	12.50	11.95	1.64	10.55	1.57
23	1.58	1.44	1.42	1.56	1.77	7.22	16.19	12.34	9.78	2.06	15.46	1.53
24	1.55	1.45	1.43	1.58	1.43	6.27	16.08	8.65	13.64	1.97	11.99	1.47
25	1.57	1.43	1.43	1.56	1.46	9.43	16.23	7.34	13.25	1.94	11.00	1.48
26	1.60	1.45	1.44	1.66	4.75	9.84	16.22	7.05	13.09	1.57	9.14	1.47
27	1.76	1.44	1.43	1.58	3.94	11.21	16.29	6.91	13.54	1.70	6.20	1.48
28	1.98	1.41	1.42	1.58	4.98	10.85	16.39	9.34	13.78	1.52	3.07	1.47
29	1.77	1.43	1.54	1.47	---	8.32	16.21	10.07	9.19	1.53	4.04	1.49
30	1.73	1.43	1.54	1.65	---	5.96	16.16	12.78	8.39	1.53	3.60	1.49
31	1.76	---	1.55	1.56	---	5.54	---	11.73	---	e1.51	3.51	---
Mean	1.54	1.53	1.49	1.58	3.77	9.52	13.99	13.00	12.31	3.29	10.40	1.91
Max	1.98	2.73	1.68	1.72	11.00	15.73	17.36	16.42	16.91	13.30	25.26	3.67
Min	1.30	1.40	1.40	1.47	1.40	3.87	7.13	6.91	4.85	1.51	1.52	1.46