

06919900 SAC RIVER NEAR CAPLINGER MILLS, MO

Lower Missouri Basin
Osage Subbasin

LOCATION.--Lat 37°52'11.4", long 93°48'11.4" referenced to North American Datum of 1983, in NW ¼ NE ¼ SW ¼ sec.21, T.36 N., R.26 W., St. Clair County, MO, Hydrologic Unit 10290106, on the right upstream wingwall of bridge on State Highway W, 1.5 mi downstream from Cedar Creek, and 5.0 mi north of Caplinger Mills.

DRAINAGE AREA.--1,810 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 721.10 ft above North American Vertical Datum of 1988.

REMARKS.--No estimated daily discharges. Records good. Flow partially regulated by Stockton Lake (station 06918990).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 11	1015	12,100	19.15
Apr 19	0415	12,400	19.33
Apr 28	0730	9,080	16.69
May 4	1515	10,800	18.15
Jun 2	0545	*19,100	*23.93
Aug 3	0830	11,600	18.72
Aug 5	2115	15,900	21.85

Minimum discharge, 57 ft³/s, Oct. 13, gage height, 4.84 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	652	61	68	75	1,240	1,120	3,400	5,590	15,500	1,010	1,440	840
2	514	61	69	73	1,350	891	1,830	5,370	17,400	996	884	830
3	115	60	71	73	504	766	1,840	5,970	9,020	1,030	7,720	910
4	84	59	91	547	298	1,330	1,670	9,650	1,960	1,080	7,350	2,360
5	73	60	96	217	259	1,880	1,520	4,980	2,840	982	13,400	2,430
6	67	60	97	86	327	1,110	1,410	3,040	4,510	963	13,200	2,400
7	64	60	93	77	313	773	1,350	5,040	5,280	954	6,920	1,240
8	62	59	100	73	872	617	1,920	6,540	4,630	946	3,490	989
9	62	60	90	74	1,440	554	1,640	6,020	5,010	936	5,140	976
10	61	60	87	76	1,810	1,780	2,370	6,240	5,620	981	2,990	967
11	60	73	84	81	2,810	3,790	10,400	7,350	4,450	1,020	2,070	963
12	59	78	80	83	2,450	1,920	5,000	7,180	4,150	931	4,310	959
13	63	74	79	89	300	1,110	4,180	6,980	3,970	821	4,200	955
14	75	78	77	1,080	232	832	3,690	6,800	3,860	784	4,590	950
15	106	79	82	2,320	216	691	3,440	6,600	3,780	772	6,260	944
16	263	79	81	1,440	205	600	3,820	6,450	1,370	768	6,210	948
17	155	82	81	332	192	2,300	3,490	6,100	2,850	766	6,080	947
18	123	79	81	1,600	194	5,410	7,510	4,270	5,060	757	5,990	939
19	102	79	79	252	178	2,290	10,500	4,080	3,640	756	5,900	934
20	89	77	79	124	164	1,320	3,930	4,300	3,050	633	5,800	953
21	82	75	77	993	175	992	2,950	5,700	2,860	813	5,710	950
22	78	73	76	915	185	866	2,560	5,370	2,750	850	5,610	949
23	74	72	75	1,310	180	830	3,310	4,320	2,680	1,140	5,530	904
24	72	70	75	1,140	198	1,220	4,430	2,540	2,920	946	5,440	563
25	68	71	73	404	429	1,860	4,270	2,300	4,370	708	5,350	528
26	67	70	72	122	1,490	1,630	5,890	2,230	4,350	671	5,260	520
27	66	68	72	112	2,010	1,350	7,730	2,180	4,260	924	5,170	508
28	65	68	73	108	1,440	1,210	8,390	2,000	4,160	789	5,080	505
29	65	68	72	1,350	---	3,500	3,980	1,330	1,540	685	4,890	508
30	63	68	71	1,770	---	5,700	4,460	1,570	1,030	1,060	1,390	501
31	63	---	75	2,990	---	4,150	---	4,100	---	2,970	861	---
Mean	117	69.4	79.9	645	766	1,755	4,096	4,909	4,629	950	5,298	996
Max	652	82	100	2,990	2,810	5,700	10,500	9,650	17,400	2,970	13,400	2,430
Min	59	59	68	73	164	554	1,350	1,330	1,030	633	861	501
In.	0.07	0.04	0.05	0.41	0.44	1.12	2.53	3.13	2.85	0.61	3.38	0.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2013, BY WATER YEAR (WY)

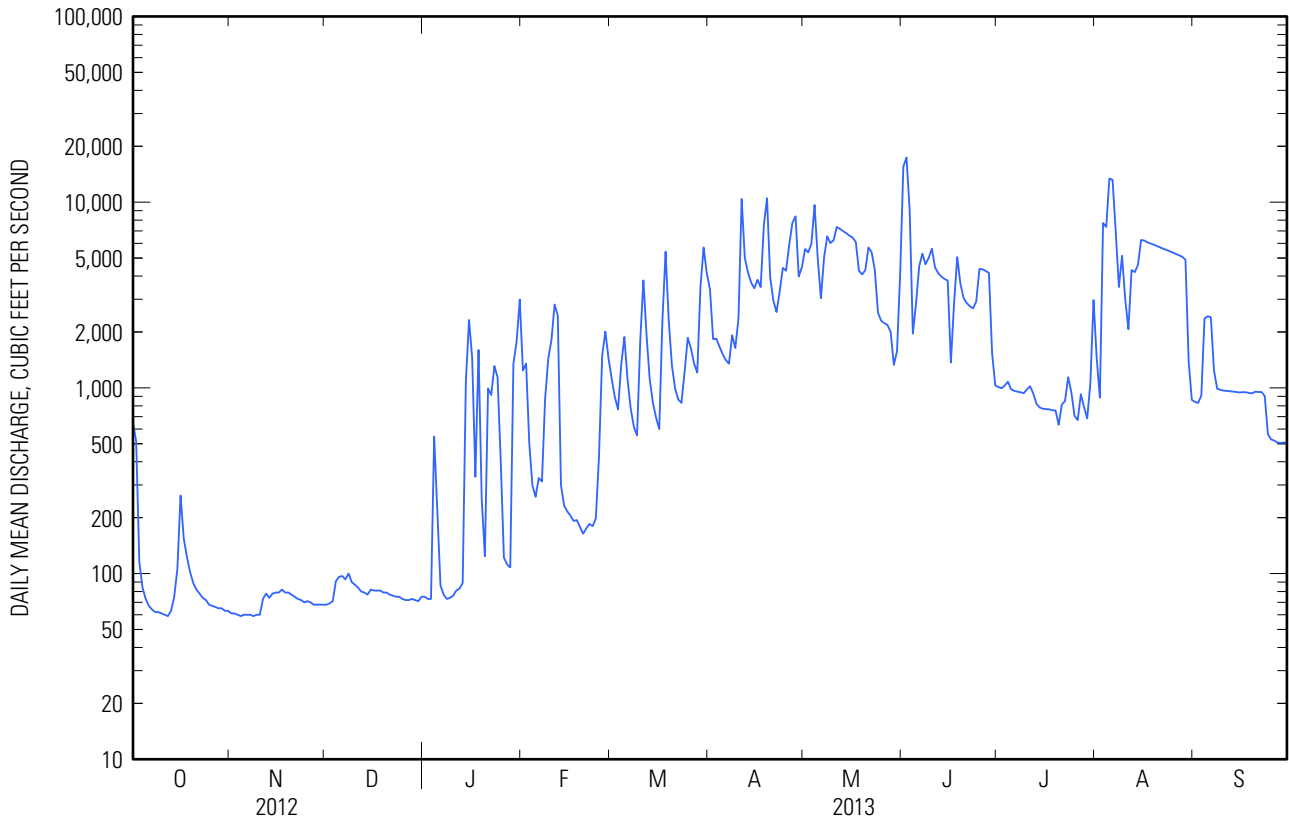
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,069	1,231	1,386	1,381	1,656	2,119	2,521	2,725	2,286	1,531	1,213	934
Max	11,070	5,392	5,838	5,487	5,202	5,630	7,988	6,360	7,745	5,641	5,298	5,283
(WY)	(1987)	(1994)	(1986)	(1993)	(1985)	(1985)	(2008)	(2008)	(2008)	(2008)	(2013)	(1993)
Min	61.1	66.7	56.6	53.5	74.2	72.8	64.0	156	87.9	119	77.3	86.7
(WY)	(1981)	(1981)	(1981)	(1981)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(1991)	(2006)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1975 - 2013	
Annual mean	698		2,031		1,670	
Highest annual mean					3,516	2008
Lowest annual mean					94.5	2006
Highest daily mean	12,500	May 1	17,400	Jun 2	51,200	Oct 2, 1986
Lowest daily mean	54	Aug 29	59	Oct 12 ^a	34	Aug 25, 1999
Annual seven-day minimum	60	Aug 23	60	Nov 3	47	Oct 7, 1980
Maximum peak flow			19,100	Jun 2	61,500	Apr 12, 1994
Maximum peak stage			23.93	Jun 2	30.95	Apr 12, 1994
Instantaneous low flow			57	Oct 13	33	Aug 24, 1999
Annual runoff (inches)	5.25		15.24		12.54	
10 percent exceeds	1,700		5,610		4,360	
50 percent exceeds	204		953		881	
90 percent exceeds	68		72		85	

^a Also Nov 4, 8



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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	7.06	4.87	4.91	4.95	6.79	7.52	11.27	13.32	21.18	7.37	8.33	7.04
2	7.37	4.87	4.92	4.93	6.37	7.10	8.69	13.02	23.74	7.34	7.15	7.03
3	5.18	4.86	4.92	4.93	6.30	6.79	8.68	13.18	18.16	7.32	18.69	7.01
4	5.01	4.85	5.01	4.93	5.76	7.54	8.35	17.31	8.62	7.44	14.41	9.60
5	4.94	4.86	5.05	5.55	5.63	8.85	8.12	13.20	9.52	7.32	19.41	9.65
6	4.90	4.86	5.07	5.02	5.53	7.53	7.93	9.50	11.66	7.28	20.68	9.64
7	4.88	4.86	5.05	4.96	5.76	6.88	7.80	12.57	13.24	7.26	16.28	7.74
8	4.87	4.86	5.14	4.93	7.35	6.54	8.37	14.66	12.42	7.25	10.74	7.35
9	4.87	4.86	5.03	4.94	5.91	6.38	8.32	13.74	12.15	7.23	14.36	7.33
10	4.87	4.87	5.02	4.94	9.58	7.07	7.90	13.60	13.88	7.22	10.81	7.32
11	4.86	4.87	5.00	4.97	10.11	11.84	18.91	15.09	12.21	7.40	8.37	7.31
12	4.86	4.97	4.98	4.98	10.85	8.94	12.80	14.94	11.84	7.22	12.06	7.30
13	4.85	4.94	4.97	5.02	5.72	7.51	11.76	14.72	11.63	7.00	11.89	7.29
14	4.93	4.97	4.96	8.50	5.53	6.98	11.09	14.55	11.49	6.93	11.76	7.29
15	5.08	4.96	4.98	8.57	5.47	6.69	10.74	14.36	11.37	6.90	14.11	7.29
16	5.85	4.97	4.98	5.81	5.43	6.50	11.43	14.19	8.10	6.89	14.07	7.30
17	5.36	4.99	4.98	5.80	5.38	6.75	10.83	14.01	7.15	6.90	13.91	7.29
18	5.21	4.97	4.98	8.50	5.39	14.08	13.26	11.72	13.01	6.87	13.82	7.28
19	5.11	4.98	4.97	5.57	5.34	9.45	19.04	11.53	11.37	6.87	13.72	7.27
20	5.03	4.96	4.99	5.10	5.28	7.87	11.74	11.73	10.52	6.58	13.64	7.32
21	4.99	4.95	4.96	5.05	5.29	7.27	10.17	12.99	10.27	7.04	13.53	7.30
22	4.97	4.94	4.95	5.95	5.36	7.02	9.61	13.29	10.10	6.69	13.44	7.31
23	4.95	4.94	4.95	7.98	5.31	6.92	9.52	12.01	9.99	7.26	13.33	7.27
24	4.94	4.92	4.95	7.39	5.36	7.33	12.37	9.51	9.90	7.32	13.24	6.49
25	4.91	4.93	4.94	6.05	6.04	8.66	11.83	9.24	12.10	6.79	13.18	6.42
26	4.90	4.92	4.93	5.10	e7.90	8.38	13.16	9.14	12.07	6.64	13.07	6.40
27	4.89	4.91	4.93	5.04	8.99	7.80	15.01	9.07	11.96	7.00	12.97	6.38
28	4.89	4.90	4.93	5.03	8.04	7.65	16.68	9.01	11.87	6.97	12.88	6.36
29	4.89	4.91	4.93	8.85	---	7.77	11.55	7.77	8.18	6.73	12.79	6.39
30	4.88	4.91	4.92	8.85	---	14.37	11.73	7.78	7.41	6.83	7.89	6.36
31	4.88	---	4.95	9.85	---	11.58	---	11.36	---	10.63	7.09	---
Mean	5.13	4.91	4.98	6.07	6.49	8.18	11.29	12.33	11.90	7.18	12.96	7.31
Max	7.37	4.99	5.14	9.85	10.85	14.37	19.04	17.31	23.74	10.63	20.68	9.65
Min	4.85	4.85	4.91	4.93	5.28	6.38	7.80	7.77	7.15	6.58	7.09	6.36