Water-Data Report 2013

06919020 SAC RIVER AT HIGHWAY J BELOW STOCKTON, MO

Lower Missouri Basin
Osage Subbasin

LOCATION.--Lat 37°44'09.2", long 93°46'46.9" referenced to North American Datum of 1983, in NW ¼ sec.4, T.34 N., R.26 W., Cedar County, MO, Hydrologic Unit 10290106, on right bank on downstream side of bridge on State Highway J, 4.5 mi downstream from Bear Creek, 6.3 mi downstream from Stockton Lake, 3.0 mi north of Stockton, and at mile 44.9.

DRAINAGE AREA.--1,292 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1973 to current year. Occasional discharge measurements in 1973 water year.

GAGE.--Water-stage recorder. Datum of gage is 750.19 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow completely regulated by Stockton Lake (station 06918990) 6.3 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,070 ft^3/s, Jan. 21, gage height, 18.36 ft; minimum discharge, 56 ft^3/s, Nov. 2-11, gage height, 5.78 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 06919020, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/06919020.2013.pdf

06919020 SAC RIVER AT HIGHWAY J BELOW STOCKTON, MO—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	515	57	64	74	906	233	e762	4,350	4,180	892	510	692
2	274	57	64	74	1,060	195	583	4,280	1,020	888	497	691
3	61	56	66	73	135	179	964	4,530	492	881	3,390	1,160
4	60	57	78	690	119	221	931	3,660	942	871	1,740	2,290
5	59	57	82	77	112	236	905	679	1,570	857	1,900	2,270
6	59	57	82	71	281	188	885	1,780	2,650	853	740	2,080
7	59	57	80	71	402	160	882	4,100	3,620	847	420	901
8	59	57	80	70	515	144	1,180	5,110	3,560	840	1,630	876
9	58	57	79	71	2,060	140	958	4,840	3,550	833	1,660	872
10	58	57	77	75	1,400	e1,380	1,530	5,590	3,580	962	499	870
11	58	64	76	76	2,420	e820	2,960	6,400	3,480	876	1,740	868
12	60	67	76	78	1,160	409	1,620	6,240	3,440	823	3,550	866
13	60	67	76	e85	110	289	2,540	6,070	3,370	691	3,560	865
14	68	66	76	1,300	106	231	2,460	5,940	3,320	683	4,590	865
15	69	66	78	1,840	105	199	2,400	5,770	3,040	674	5,830	859
16	67	66	77	1,600	100	178	2,430	5,640	239	673	5,750	861
17	80	65	77	984	96	914	2,010	4,940	2,340	671	5,660	860
18	66	64	76	1,510	94	1,040	2,610	3,480	2,630	656	5,590	854
19	62	65	76	546	92	507	1,550	3,420	2,440	633	5,510	852
20	62	64	77	543	90	356	1,030	3,490	2,370	481	5,430	868
21	62	64	75	2,400	95	286	1,530	3,710	2,340	482	5,350	874
22	63	64	75	3,030	96	261	1,470	3,530	2,330	479	5,270	867
23	64	64	75	3,310	94	263	1,620	2,990	2,310	463	5,190	704
24	62	64	75	e2,530	102	384	1,770	1,810	3,020	462	5,110	432
25	62	64	74	e274	180	496	2,170	1,750	4,050	458	5,030	430
26	62	63	74	88	379	353	1,930	1,740	3,970	481	4,950	424
27	61	64	73	86	382	319	901	1,730	3,900	470	4,860	421
28	60	64	73	315	290	e275	882	1,460	3,460	466	4,790	421
29	60	64	73	1,220	---	e1,450	1,120	1,090	963	463	3,980	425
30	60	64	73	1,020	---	e1,100	2,730	1,170	901	568	747	420
31	57	---	74	1,620	---	e992	---	1,560	---	548	694	---
Mean	83.5	62.1	75.2	832	464	458	1,577	3,640	2,636	675	3,425	891
Max	515	67	82	3,310	2,420	1,450	2,960	6,400	4,180	962	5,830	2,290
Min	57	56	64	70	90	140	583	679	239	458	420	420
In.	0.07	0.05	0.07	0.74	0.37	0.41	1.36	3.25	2.28	0.60	3.06	0.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2013, BY WATER YEAR (WY)

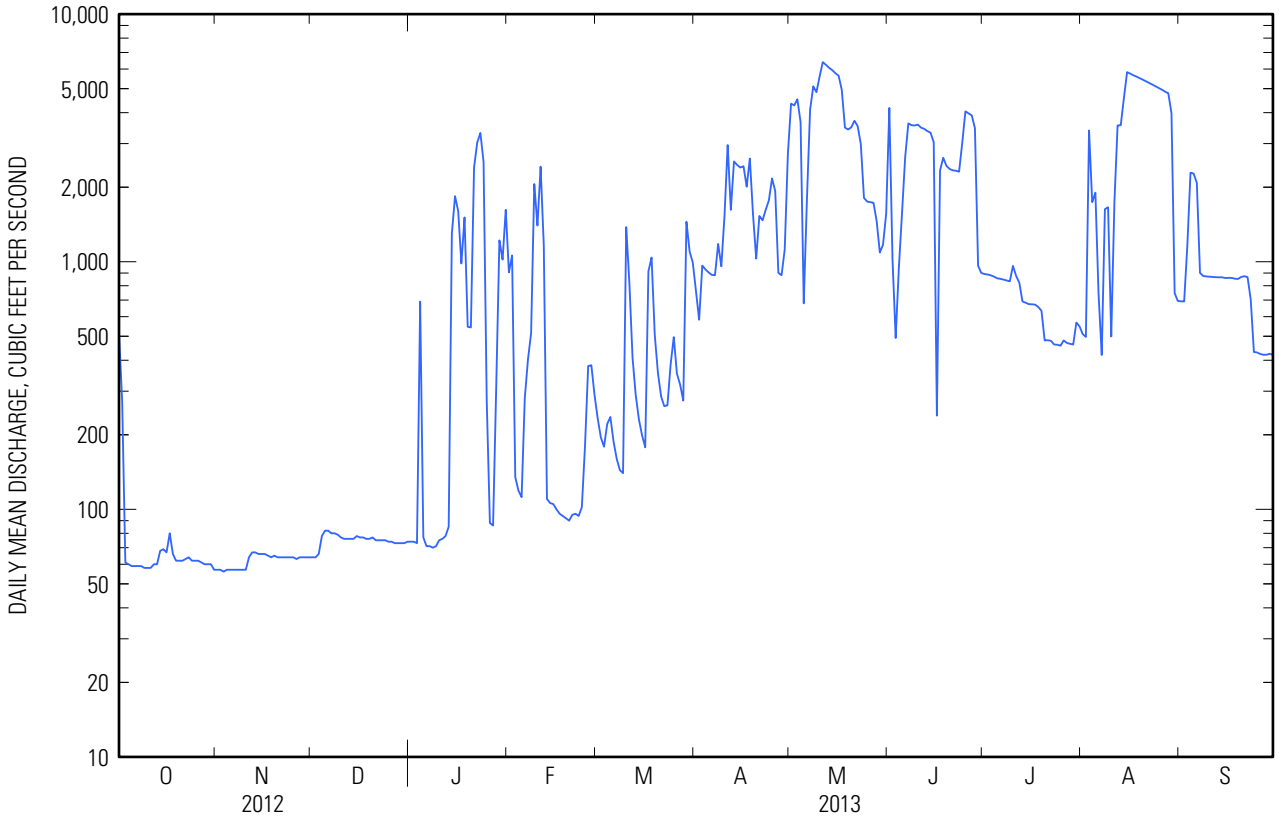
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	594	726	976	1,081	1,101	1,331	1,713	1,790	1,662	1,262	1,069	745
Max	4,922	4,697	3,983	4,464	4,251	4,230	4,990	4,624	4,863	5,185	3,425	2,012
(WY)	(1994)	(1994)	(1986)	(1993)	(2005)	(1975)	(2008)	(2008)	(1990)	(2008)	(2013)	(2007)
Min	51.1	59.5	61.9	66.5	65.0	63.5	60.5	87.2	61.8	121	71.6	80.4
(WY)	(1974)	(2007)	(1981)	(2006)	(2006)	(2006)	(1981)	(2006)	(2006)	(1977)	(1991)	(1991)

06919020 SAC RIVER AT HIGHWAY J BELOW STOCKTON, MO—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1974 - 2013	
Annual mean	441		1,241		1,171	
Highest annual mean					2,488	2008
Lowest annual mean					81.6	2006
Highest daily mean	3,390	May 8	6,400	May 11	12,800	Sep 25, 1993
Lowest daily mean	51	Aug 16[a]	56	Nov 3	25	Mar 25, 1977
Annual seven-day minimum	52	Aug 22	57	Oct 31	33	Oct 20, 1973
Maximum peak flow			7,070	Jan 21	14,800	Oct 1, 1986
Maximum peak stage			18.36	Jan 21	24.91	Feb 23, 1985
Instantaneous low flow			56	Nov 2[b]	24	Mar 25, 1977[c]
Annual runoff (inches)	4.65		13.04		12.31	
10 percent exceeds	1,330		3,640		3,220	
50 percent exceeds	112		633		529	
90 percent exceeds	59		64		67	

[a] Also Aug 18, 23, 24
[b] Also Nov 3-11
[c] Also Apr 3, 2007



06919020 SAC RIVER AT HIGHWAY J BELOW STOCKTON, MO—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
OBSERVATION AT 0800

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.08	5.79	5.80	5.78	---	6.63	---	15.13	15.91	8.60	7.54	8.25
2	6.44	5.78	5.79	5.78	9.19	6.46	7.32	14.98	8.99	8.59	7.48	8.26
3	5.79	5.78	5.79	5.78	6.16	6.37	8.91	15.09	7.55	8.57	9.79	8.26
4	5.78	5.78	5.82	8.09	6.08	6.52	8.78	16.08	6.99	8.55	9.53	11.93
5	5.78	5.78	5.84	5.80	6.03	6.64	8.71	8.06	10.15	8.52	11.29	11.90
6	5.78	5.79	5.84	5.77	6.00	6.43	8.63	7.36	10.30	8.51	8.45	11.87
7	5.77	5.78	5.83	5.76	6.00	6.29	8.59	13.78	14.09	8.48	7.41	8.84
8	5.77	5.78	5.83	5.76	6.25	6.21	10.14	15.96	13.97	8.46	7.06	8.80
9	5.77	5.79	5.82	5.76	6.02	6.18	8.92	15.70	13.95	8.44	10.45	8.79
10	5.77	5.79	5.81	5.77	7.10	---	8.69	15.67	14.07	8.47	7.72	8.78
11	5.77	5.79	5.80	5.80	8.57	---	15.52	17.67	13.87	8.57	7.02	8.78
12	5.80	5.81	5.80	5.81	10.99	7.37	8.22	17.44	13.79	8.47	13.96	8.77
13	5.78	5.82	5.80	---	6.01	6.87	12.40	17.27	13.70	8.07	13.98	8.77
14	5.83	5.81	5.80	6.94	5.99	6.61	12.23	17.11	13.63	8.04	13.92	8.78
15	5.85	5.81	5.80	13.93	5.99	6.47	12.15	16.97	13.56	8.03	16.95	8.75
16	5.84	5.80	5.81	13.90	5.96	6.38	12.13	16.72	6.30	8.01	16.87	8.75
17	5.82	5.80	5.81	6.67	5.93	6.64	12.19	16.67	11.05	8.00	16.78	8.76
18	5.82	5.79	5.80	10.12	5.92	9.52	10.62	13.85	12.56	7.97	16.69	8.73
19	5.80	5.80	5.80	7.78	5.91	7.51	10.25	13.78	12.21	7.95	16.58	8.72
20	5.80	5.79	5.81	7.70	5.90	6.97	7.90	13.79	12.08	7.35	16.49	8.77
21	5.80	5.79	5.79	7.64	5.92	6.71	10.49	14.19	12.04	7.42	16.38	8.79
22	5.80	5.79	5.79	9.31	5.94	6.63	10.29	13.93	11.96	7.50	16.29	8.79
23	5.81	5.79	5.79	10.22	5.91	6.61	10.35	13.81	11.95	7.37	16.20	8.75
24	5.80	5.79	5.79	11.38	5.93	6.84	10.82	10.89	11.93	7.37	16.10	7.45
25	5.80	5.79	5.79	---	6.24	7.53	10.68	10.76	14.68	7.36	16.00	7.45
26	5.80	5.79	5.79	5.88	6.96	6.95	11.74	10.76	14.58	7.34	15.90	7.44
27	5.80	5.79	5.78	5.88	7.26	6.82	8.73	10.71	14.48	7.40	15.79	7.43
28	5.80	5.79	5.78	5.86	6.86	---	8.06	10.72	14.39	7.38	15.68	7.41
29	5.80	5.79	5.78	7.20	---	---	7.92	9.08	8.70	7.37	15.59	7.43
30	5.80	5.79	5.78	6.71	---	---	9.96	9.08	8.62	7.82	8.37	7.42
31	5.79	---	5.79	13.93	---	---	---	9.82	---	7.64	8.27	---
Mean	5.83	5.79	5.80	---	---	---	---	13.64	12.07	7.99	12.79	8.72
Max	6.44	5.82	5.84	---	---	---	---	17.67	15.91	8.60	16.95	11.93
Min	5.77	5.78	5.78	---	---	---	---	7.36	6.30	7.34	7.02	7.41