Water-Data Report 2013

06918440 SAC RIVER NEAR DADEVILLE, MO

Lower Missouri Basin
Osage Subbasin

LOCATION.--Lat 37°26'35.3", long 93°41'05.6" referenced to North American Datum of 1983, in NE ¼ NE ¼ NW ¼ sec.9, T.31 N., R.25 W., Dade County, MO, Hydrologic Unit 10290106, on downstream side of bridge on State Highway 245, 2 mi upstream from Cave Spring Branch, and 2 mi south of Dadeville.

DRAINAGE AREA.--257 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1966 to current year. Annual maximum only, for water years 1965-66.

GAGE.--Water-stage recorder. Datum of gage is 869.78 ft above National Geodetic Vertical Datum of 1929 (levels by the Missouri State Highway and Transportation Commission). Prior to June 1966, crest-stage gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 27	1530	2,820	11.92
May 31	1645	2,300	11.08
Jun 2	0145	4,990	14.87
Aug 5	1045	*5,010	*14.98
Aug 8	1530	3,210	12.68
Aug 12	1830	1,660	10.08

Minimum discharge, 15 ft^3/s, Jan. 4-8, gage height, 4.30 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 06918440, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/06918440.2013.pdf

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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	24	44	21	16	196	299	587	724	3,560	175	396	139
2	23	40	20	16	168	274	545	611	2,970	165	321	136
3	22	37	20	16	150	251	501	630	1,280	158	974	127
4	21	34	30	15	134	242	456	809	951	152	2,070	121
5	20	32	34	15	121	232	416	789	797	145	3,800	116
6	20	31	34	15	110	213	383	709	709	138	1,370	112
7	19	30	34	15	103	199	356	629	599	131	1,360	107
8	19	28	32	15	104	186	332	560	519	124	2,370	102
9	19	27	31	16	96	182	313	517	613	120	2,010	99
10	19	27	28	17	98	423	330	535	540	122	1,390	94
11	19	29	26	19	99	848	464	499	451	122	1,140	90
12	20	33	25	21	98	666	435	437	399	115	1,280	90
13	24	32	24	32	104	532	384	403	360	107	1,200	90
14	114	29	23	52	103	455	358	376	330	102	938	83
15	237	28	24	57	101	404	336	350	309	99	768	79
16	134	27	23	53	97	364	312	342	329	95	642	78
17	112	26	22	48	94	548	292	328	803	94	544	83
18	107	25	21	44	92	785	882	304	634	90	466	84
19	98	26	21	40	88	688	985	287	472	87	406	80
20	87	27	21	37	83	567	691	411	401	91	352	116
21	77	26	20	34	90	494	566	521	354	112	301	99
22	69	25	19	31	94	460	490	448	318	100	264	88
23	69	24	19	29	86	430	474	376	291	96	239	81
24	73	23	18	28	98	459	459	333	266	87	218	76
25	86	23	18	26	139	552	409	304	246	83	203	72
26	74	22	18	25	244	550	469	284	227	214	190	70
27	67	22	18	24	327	515	2,110	265	212	181	179	67
28	62	22	18	24	324	479	1,820	249	206	149	169	65
29	58	21	17	31	---	498	1,210	235	203	128	160	68
30	53	21	16	155	---	507	907	240	185	795	152	65
31	48	---	16	223	---	549	---	1,640	---	668	144	---
Mean	61.1	28.0	22.9	38.4	130	447	609	489	651	163	839	92.6
Max	237	44	34	223	327	848	2,110	1,640	3,560	795	3,800	139
Min	19	21	16	15	83	182	292	235	185	83	144	65
In.	0.27	0.12	0.10	0.17	0.53	2.00	2.64	2.19	2.83	0.73	3.77	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	132	249	254	234	284	423	404	393	244	121	82.4	106
Max	842	1,139	1,058	964	918	1,432	1,427	1,747	1,327	544	839	1,545
(WY)	(2010)	(1986)	(1993)	(2005)	(1985)	(2008)	(1994)	(2002)	(2008)	(2007)	(2013)	(1993)
Min	9.40	16.8	19.7	14.0	17.5	24.8	29.2	30.1	39.0	12.1	7.19	6.78
(WY)	(2007)	(1981)	(1977)	(1981)	(2006)	(2006)	(2006)	(1977)	(2012)	(2012)	(2006)	(1980)

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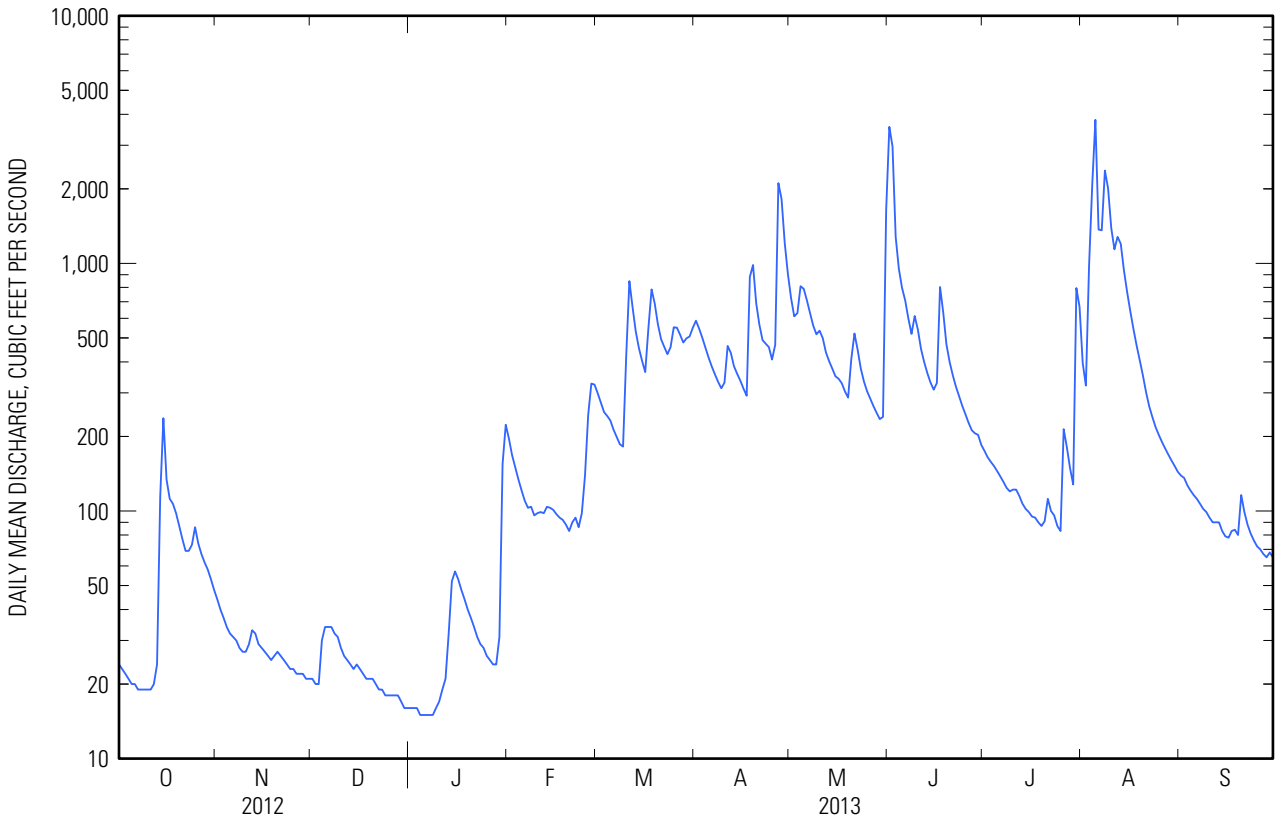
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1966 - 2013	
Annual mean	68.7		298		244	
Highest annual mean					560	1993
Lowest annual mean					50.2	1977
Highest daily mean	593	Mar 22	3,800	Aug 5	23,300	Sep 25, 1993
Lowest daily mean	7.7	Aug 25	15	Jan 4[a]	3.4	Aug 24, 2006
Annual seven-day minimum	8.3	Aug 19	15	Jan 2	4.2	Aug 19, 2006
Maximum peak flow			5,010	Aug 5	36,100	Sep 25, 1993
Maximum peak stage			14.98	Aug 5	27.56	Sep 25, 1993
Instantaneous low flow			15	Jan 4[a]	3.3	Aug 24, 2006[b]
Annual runoff (inches)	3.64		15.77		12.88	
10 percent exceeds	160		676		536	
50 percent exceeds	42		122		109	
90 percent exceeds	11		21		22	

[a] Also Jan 5-8
[b] Also Aug 25, 2006



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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	4.35	4.68	4.39	4.32	5.73	6.22	7.22	7.69	12.04	5.58	6.56	5.56
2	4.34	4.64	4.38	4.32	5.57	6.10	7.06	7.31	13.14	5.53	6.23	5.56
3	4.32	4.60	4.38	4.31	5.45	5.99	6.93	7.22	9.15	5.48	8.12	5.50
4	4.31	4.57	4.49	4.31	5.36	5.94	6.75	7.90	8.20	5.46	8.08	5.45
5	4.29	4.54	4.55	4.30	5.28	5.89	6.61	7.84	7.73	5.41	14.83	5.42
6	4.29	4.53	4.56	4.30	5.20	5.80	6.47	7.61	7.54	5.38	9.57	5.39
7	4.28	4.52	4.56	4.30	5.13	5.73	6.37	7.37	7.22	5.33	8.86	5.36
8	4.28	4.49	4.54	4.30	5.15	5.65	6.27	7.13	6.95	5.29	10.69	5.33
9	4.28	4.48	4.53	4.31	5.09	5.62	6.19	6.97	6.77	5.27	11.05	5.31
10	4.28	4.48	4.50	4.32	5.09	6.19	6.11	6.90	7.03	5.26	9.57	5.27
11	4.28	4.47	4.47	4.37	5.11	8.09	6.64	6.92	6.73	5.29	9.02	5.24
12	4.29	4.56	4.45	4.37	5.10	7.52	6.69	6.69	6.54	5.24	8.57	5.22
13	4.31	4.55	4.43	4.48	5.14	7.05	6.48	6.55	6.40	5.18	9.25	5.25
14	4.51	4.50	4.42	4.73	5.14	6.76	6.37	6.45	6.28	5.16	8.53	5.18
15	5.96	4.49	4.43	4.81	5.12	6.57	6.29	6.34	6.18	5.13	8.05	5.15
16	5.33	4.48	4.43	4.78	5.09	6.41	6.18	6.28	6.20	5.11	7.66	5.14
17	5.16	4.47	4.42	4.73	5.07	6.72	6.09	6.25	7.57	5.09	7.35	5.15
18	5.13	4.45	4.40	4.68	5.05	7.65	7.68	6.14	7.34	5.07	7.07	5.20
19	5.10	4.45	4.39	4.64	5.03	7.57	8.57	6.07	6.82	5.05	6.84	5.16
20	5.02	4.48	4.40	4.60	4.99	7.17	7.59	6.35	6.56	5.02	6.63	5.31
21	4.95	4.47	4.38	4.57	5.00	6.90	7.17	6.90	6.38	5.26	6.42	5.32
22	4.88	4.45	4.37	4.53	5.09	6.77	6.89	6.74	6.25	5.16	6.24	5.22
23	4.89	4.44	4.36	4.50	5.01	6.65	6.76	6.46	6.12	5.13	6.12	5.17
24	4.84	4.43	4.36	4.49	5.06	6.67	6.77	6.28	6.02	5.05	6.02	5.13
25	5.04	4.42	4.35	4.47	5.32	7.06	6.58	6.15	5.92	5.01	5.94	5.09
26	4.94	4.42	4.34	4.45	5.81	7.08	6.47	6.06	5.84	4.99	5.87	5.07
27	4.88	4.41	4.34	4.44	6.32	6.97	10.40	5.97	5.76	5.61	5.80	5.05
28	4.84	4.40	4.34	4.43	6.33	6.83	10.44	5.89	5.73	5.46	5.75	5.02
29	4.81	4.40	4.33	4.43	---	6.86	9.03	5.83	5.74	5.32	5.70	5.06
30	4.78	4.39	4.32	5.30	---	6.89	8.24	5.79	5.63	7.00	5.65	5.03
31	4.73	---	4.31	5.84	---	7.00	---	10.18	---	7.43	5.60	---
Mean	4.70	4.49	4.42	4.54	5.28	6.66	7.11	6.78	7.06	5.38	7.67	5.24
Max	5.96	4.68	4.56	5.84	6.33	8.09	10.44	10.18	13.14	7.43	14.83	5.56
Min	4.28	4.39	4.31	4.30	4.99	5.62	6.09	5.79	5.63	4.99	5.60	5.02