

Water-Data Report 2007

06921720 BIG CREEK NEAR BLAIRSTOWN, MO

Osage Basin
South Grand Subbasin

LOCATION.--Lat 38°33'17.92", long 93°57'55.27" referenced to North American Datum of 1983, in sec.36, T.44 N., R.28 W., Henry County, MO, Hydrologic Unit 10290108, located on left downstream bridge abutment on County Road N about 1 mi east of Blairstown.

DRAINAGE AREA.--414 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1960 to September 1974, May 2007 to current year.

GAGE.--Water stage-recorder. Datum of gage is 734.06 ft above National Geodetic Vertical Datum of 1929.

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

EXTREMES FOR CURRENT YEAR.--For the period May 30 to Sep 30, maximum discharge, 16,200 ft³/s, Jul 1, gage height, 27.30 ft; minimum discharge, 0.00 ft³/s, Sep 28, 29.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	1,720	15,300	6.6	1.6
2	---	---	---	---	---	---	---	---	2,200	11,300	4.7	1.7
3	---	---	---	---	---	---	---	---	486	3,830	4.2	1.9
4	---	---	---	---	---	---	---	---	285	844	3.9	2.0
5	---	---	---	---	---	---	---	---	185	554	3.8	1.8
6	---	---	---	---	---	---	---	---	128	384	3.6	1.8
7	---	---	---	---	---	---	---	---	96	e250	3.3	2.7
8	---	---	---	---	---	---	---	---	74	e180	3.1	4.0
9	---	---	---	---	---	---	---	---	58	e110	3.9	5.5
10	---	---	---	---	---	---	---	---	51	e90	8.1	5.8
11	---	---	---	---	---	---	---	---	45	e85	14	5.9
12	---	---	---	---	---	---	---	---	40	e70	10	5.3
13	---	---	---	---	---	---	---	---	37	57	6.2	4.1
14	---	---	---	---	---	---	---	---	33	45	3.8	2.8
15	---	---	---	---	---	---	---	---	29	40	2.9	1.3
16	---	---	---	---	---	---	---	---	24	36	2.4	0.82
17	---	---	---	---	---	---	---	---	20	31	2.2	0.73
18	---	---	---	---	---	---	---	---	17	26	2.0	1.0
19	---	---	---	---	---	---	---	---	16	22	1.9	1.3
20	---	---	---	---	---	---	---	---	15	20	2.1	1.5
21	---	---	---	---	---	---	---	---	16	18	1.8	1.3
22	---	---	---	---	---	---	---	---	16	15	1.7	0.85
23	---	---	---	---	---	---	---	---	14	12	1.5	0.61
24	---	---	---	---	---	---	---	---	13	9.6	1.6	1.4
25	---	---	---	---	---	---	---	---	11	8.3	2.3	1.8
26	---	---	---	---	---	---	---	---	10	7.7	2.2	1.2
27	---	---	---	---	---	---	---	---	10	7.0	1.9	e0.60
28	---	---	---	---	---	---	---	---	4,150	6.5	1.6	e0.00
29	---	---	---	---	---	---	---	---	9,780	17	1.5	e0.00
30	---	---	---	---	---	---	---	91	12,700	14	1.7	e1.8
31	---	---	---	---	---	---	---	358	---	10	1.8	---
Mean	---	---	---	---	---	---	---	---	1,076	1,077	3.62	2.10
Max	---	---	---	---	---	---	---	---	12,700	15,300	14	5.9
Min	---	---	---	---	---	---	---	---	10	6.5	1.5	0.00
In.	---	---	---	---	---	---	---	---	2.90	3.00	0.01	0.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2007^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	299	215	220	278	207	431	557	395	636	228	89.4	329
Max	1,286	1,484	1,025	906	787	2,079	2,128	1,744	2,250	1,077	565	2,333
(WY)	(1970)	(1962)	(1974)	(1974)	(1962)	(1973)	(1973)	(1961)	(1969)	(2007)	(1968)	(1961)
Min	0.00	0.05	0.00	0.00	0.11	0.17	19.2	11.7	9.83	8.27	0.11	0.03
(WY)	(1964)	(1964)	(1964)	(1964)	(1964)	(1964)	(1963)	(1965)	(1972)	(1972)	(1962)	(1963)

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SUMMARY STATISTICS

Water Years 1960 - 2007 ^a		
Annual mean	311	
Highest annual mean	643	1961
Lowest annual mean	90.7	1963
Highest daily mean	20,800	Sep 14, 1961
Lowest daily mean	0.00	Sep 15, 1960 ^b
Annual seven-day minimum	0.00	Aug 19, 1962
Maximum peak flow	24,400	Sep 14, 1961
Maximum peak stage	27.30	Jul 1, 2007
Instantaneous low flow	0.00	Sep 15, 1960 ^b
Annual runoff (inches)	10.21	
10 percent exceeds	600	
50 percent exceeds	34	
90 percent exceeds	0.46	

^a For Period of Record

^b 1960, 1962-1964, 1966, 2007

