Water-Data Report 2013

06893500 BLUE RIVER AT KANSAS CITY, MO

Lower Missouri Basin
Blue Subbasin

LOCATION.--Lat 38°57'25.2", long 94°33'32.0" referenced to North American Datum of 1983, in SE ¼ NE ¼ sec.28, T.48 N., R.33 W., Jackson County, MO, Hydrologic Unit 10300101, on downstream side of right pier of bridge on Bannister Road, 0.4 mi downstream from Indian Creek, in Kansas City, and at mile 23.2.

DRAINAGE AREA.--188 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1939 to current year.

REVISED RECORDS.--WSP 926: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 753.73 ft above National Geodetic Vertical Datum of 1929 (levels by the U.S. Army Corps of Engineers). Prior to July 1, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Low flow regulated by commercial plants upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 17, 1928, reached a stage of about 39 ft, from information by the city of Kansas City.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 27	1415	5,490	20.69
May 31	1330	*15,600	*31.74

Minimum discharge, 12 ft^3/s, Dec. 30, 31, gage height, 4.21 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 06893500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/06893500.2013.pdf

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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	34	28	29	54	128	125	147	167	1,890	42	61	271
2	31	30	29	35	95	113	114	415	621	36	209	75
3	29	25	28	30	81	153	96	777	432	293	96	55
4	26	23	27	27	64	314	85	898	392	224	171	41
5	26	29	27	27	52	478	71	505	1,310	64	159	35
6	26	31	26	28	46	356	59	331	712	55	369	28
7	26	34	29	31	677	378	80	248	388	60	607	27
8	28	23	27	34	331	600	450	199	291	43	170	27
9	25	24	36	37	169	964	106	376	549	33	109	27
10	26	22	28	78	163	833	1,440	626	264	30	88	23
11	25	830	24	144	115	e350	820	280	201	32	70	22
12	26	238	24	53	98	e215	365	191	159	31	447	28
13	367	111	23	44	69	e160	245	146	128	28	145	22
14	267	78	27	45	62	e170	209	117	111	27	92	24
15	110	57	187	33	58	155	288	92	839	26	68	35
16	73	47	57	37	50	e150	168	76	820	22	59	118
17	62	44	39	50	48	e140	288	71	379	37	52	356
18	62	40	33	36	47	e135	1,170	64	319	42	45	143
19	44	39	33	34	46	93	446	424	199	25	44	398
20	42	36	164	31	36	87	273	368	162	28	40	597
21	39	32	79	35	48	69	205	144	126	48	32	122
22	36	39	53	41	58	67	160	92	102	33	31	79
23	37	29	42	22	62	70	581	68	84	27	29	66
24	37	28	35	24	78	205	404	55	72	26	28	54
25	34	31	27	31	129	167	239	45	79	28	30	50
26	38	31	25	28	200	154	300	38	71	54	30	46
27	31	29	29	38	235	266	1,060	1,950	53	32	28	41
28	31	29	25	31	171	469	459	634	131	29	25	178
29	33	27	23	763	---	354	292	289	63	251	25	104
30	38	30	23	589	---	234	217	2,220	50	359	24	59
31	34	---	33	222	---	192	---	8,870	---	96	25	---
Mean	56.2	69.8	41.6	87.5	122	265	361	670	367	69.7	110	105
Max	367	830	187	763	677	964	1,440	8,870	1,890	359	607	597
Min	25	22	23	22	36	67	59	38	50	22	24	22
In.	0.34	0.41	0.26	0.54	0.68	1.63	2.14	4.11	2.18	0.43	0.67	0.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	132	111	99.4	97.7	141	204	275	283	319	172	105	166
Max	790	926	726	445	740	1,407	1,279	1,457	1,361	1,616	497	1,395
(WY)	(1987)	(1999)	(1993)	(1941)	(1985)	(1973)	(1944)	(1990)	(2010)	(1951)	(2005)	(1986)
Min	0.00	0.00	0.00	0.00	2.66	4.36	6.41	17.8	7.44	1.72	0.94	0.05
(WY)	(1940)	(1940)	(1940)	(1940)	(1940)	(1957)	(1954)	(1956)	(1953)	(1946)	(1947)	(1939)

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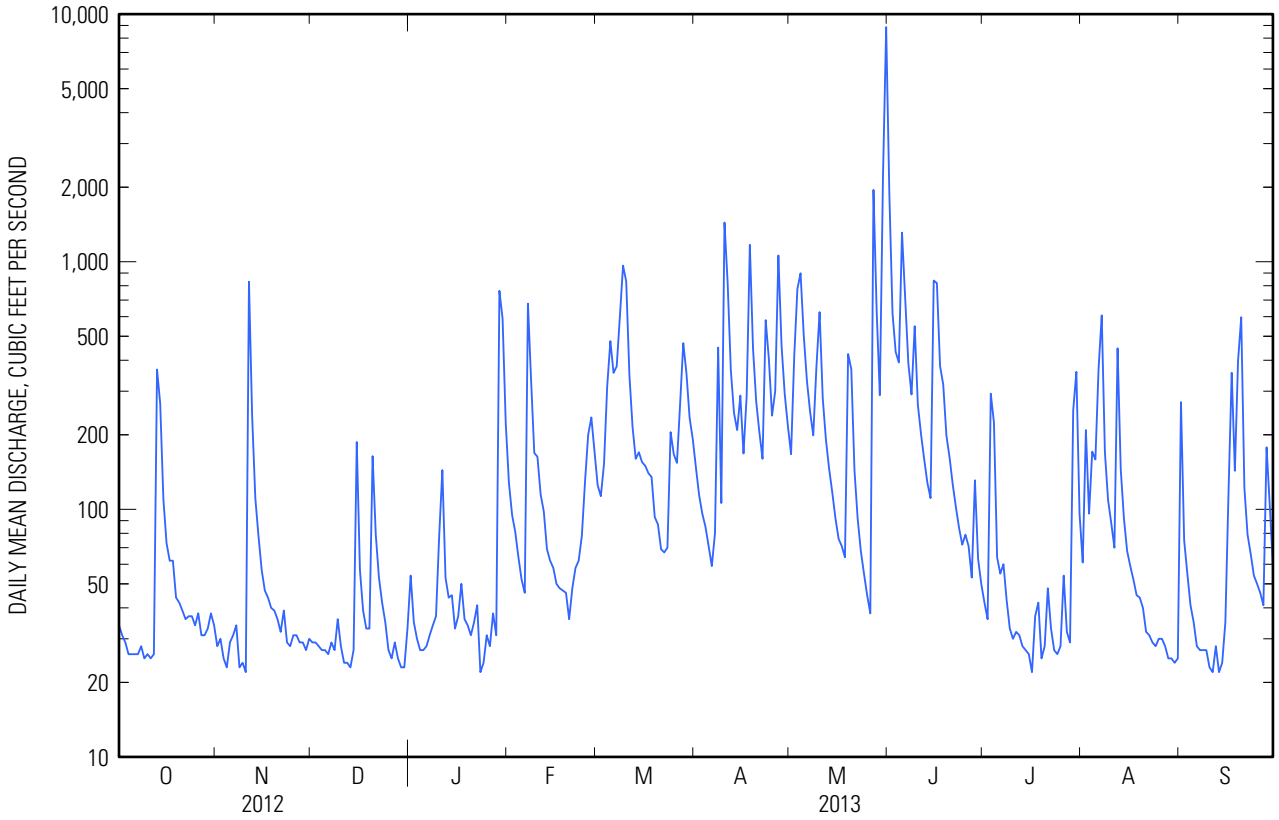
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1939 - 2013	
Annual mean	126		194		176	
Highest annual mean					437	1993
Lowest annual mean					12.8	1956
Highest daily mean	3,580	Sep 1	8,870	May 31	20,000	Sep 13, 1961
Lowest daily mean	19	Jul 25[a]	22	Nov 10[b]	0.00	Several Years
Annual seven-day minimum	22	Aug 19	25	Sep 8	0.00	At Times
Maximum peak flow			15,600	May 31	41,000	Sep 13, 1961
Maximum peak stage			31.74	May 31	44.46	Sep 13, 1961
Instantaneous low flow			12	Dec 30[c]	0.00	Several Years
Annual runoff (inches)	9.16		14.01		12.71	
10 percent exceeds	222		427		301	
50 percent exceeds	44		62		51	
90 percent exceeds	24		27		8.4	

[a] Also Aug 24
[b] Also Jan 23, Jul 16, Sep 11, 13
[c] Also Dec 31



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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	4.23	4.19	4.22	4.47	4.73	4.71	4.90	4.97	9.26	4.34	4.39	4.24
2	4.22	4.24	4.23	4.37	4.59	4.65	4.79	5.11	6.11	4.30	4.56	4.45
3	4.21	4.20	4.21	4.35	4.58	4.73	4.72	6.55	5.59	4.29	4.52	4.37
4	4.19	4.17	4.19	4.31	4.49	5.06	4.69	7.22	5.29	5.01	4.43	4.26
5	4.19	4.25	4.20	4.33	4.44	5.80	4.65	5.91	5.24	4.41	4.75	4.23
6	4.19	4.23	4.20	4.34	4.41	5.37	4.60	5.43	6.38	4.34	6.00	4.19
7	4.20	4.26	4.21	4.33	5.69	5.31	4.57	5.22	5.47	4.37	8.85	4.20
8	4.21	4.18	4.22	4.36	5.39	5.78	5.71	5.06	5.17	4.31	4.76	4.20
9	4.19	4.19	4.34	4.37	4.86	6.88	4.75	5.76	6.66	4.25	4.55	4.20
10	4.20	4.19	4.21	4.36	4.81	7.00	9.73	6.47	5.11	4.22	4.48	4.16
11	4.18	5.58	4.19	4.75	4.70	---	6.91	5.30	4.93	4.22	4.44	4.16
12	4.19	5.05	4.19	4.42	4.61	---	5.57	5.03	4.80	4.22	5.40	4.17
13	4.98	4.59	4.18	4.39	4.52	---	5.20	4.91	4.67	4.23	4.65	4.16
14	5.04	4.50	4.19	4.48	4.47	---	5.04	4.82	4.62	4.22	4.50	4.17
15	4.61	4.39	4.93	4.36	4.45	4.85	5.25	4.73	4.57	4.20	4.40	4.21
16	4.45	4.32	4.37	4.34	4.42	---	4.97	4.66	6.72	4.15	4.36	4.61
17	4.32	4.31	4.28	4.43	4.41	---	4.84	4.63	5.25	4.17	4.33	4.35
18	4.39	4.28	4.24	4.40	4.40	---	9.65	4.59	5.31	4.27	4.30	4.67
19	4.29	4.27	4.24	4.35	4.41	4.68	5.77	6.53	4.93	4.19	4.26	4.40
20	4.28	4.26	5.01	4.32	4.36	4.68	5.28	5.58	4.79	4.16	4.27	5.70
21	4.27	4.24	4.47	4.38	4.38	4.59	5.07	4.89	4.67	4.34	4.20	4.64
22	4.26	4.25	4.39	4.44	4.47	4.60	4.94	4.73	4.59	4.25	4.20	4.47
23	4.25	4.23	4.37	4.26	4.43	4.58	6.24	4.64	4.51	4.20	4.18	4.41
24	4.24	4.20	4.33	4.28	4.49	5.10	5.69	4.57	4.48	4.20	4.20	4.36
25	4.24	4.24	4.31	4.32	4.75	4.97	5.19	4.53	4.44	4.19	4.21	4.36
26	4.25	4.24	4.29	4.29	4.94	4.85	5.18	4.51	4.46	4.32	4.21	4.31
27	4.24	4.21	4.35	4.37	5.00	5.07	8.95	4.48	4.37	4.24	4.20	4.28
28	4.23	4.21	4.30	4.33	4.87	5.85	5.81	6.20	4.70	4.23	4.17	4.27
29	4.24	4.14	4.28	4.58	---	5.57	5.33	5.35	4.43	4.30	4.18	4.59
30	4.38	4.21	4.29	6.16	---	5.18	5.13	7.00	4.38	4.95	4.17	4.38
31	4.25	---	4.30	5.05	---	5.06	---	24.91	---	---	4.17	---
Mean	4.31	4.33	4.31	4.46	4.65	---	5.64	5.94	5.20	---	4.59	4.37
Max	5.04	5.58	5.01	6.16	5.69	---	9.73	24.91	9.26	---	8.85	5.70
Min	4.18	4.14	4.18	4.26	4.36	---	4.57	4.48	4.37	---	4.17	4.16