07164600 JOE CREEK AT 61ST STREET AT TULSA, OK

Robert S. Kerr Reservoir Basin
Polecat-Snake Subbasin

LOCATION.--Lat 36°04′32″, long 95°57′37″ referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.31, T.19 N., R.13 E., Tulsa County, OK, Hydrologic Unit 11110101, at right upstream abutment of 61st Street bridge, .2 mi west of Lewis Avenue, 4 mi north of Jenks and at mile 2.1.

DRAINAGE AREA.--11.6 mi^2, revised. From automated delineation using 10-meter National Elevation Dataset digital elevation model data dated 10/01/2006 and Watershed Boundary Dataset dated 10/01/2006, using Albers Equal-Area Projection, North American Datum 1983.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1988 to current year.

REVISED RECORDS.—WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 620.96 ft above NGVD of 1929.

REMARKS.--Records poor. U.S. Geological Survey satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--23,000 ft^3/s, May 26, 1984, slope-area measurement at 71st Street, gage height undetermined at 61st Street.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 4	0215	*6,360	*6.71

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 07164600, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/07164600.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.9	1.7	2.0	e1.3	e1.5	1.6	1.8	e7.0	4.4	2.7	1.4	1.8
2	1.2	28	1.7	e1.3	e2.6	1.5	1.6	e3.0	8.7	10	2.3	1.5
3	1.3	4.3	56	e1.2	56	1.3	1.4	e2.4	3.1	2.2	1.3	1.6
4	1.1	1.4	5.5	e1.3	5.8	1.4	1.9	e2.1	381	1.8	2.9	1.6
5	1.1	1.4	2.5	e1.4	1.9	1.5	1.2	e2.2	5.2	1.2	23	1.5
6	1.2	21	1.9	e1.5	1.5	2.1	1.3	e2.0	2.6	1.2	2.0	1.8
7	1.2	82	1.9	e1.4	1.2	2.2	3.2	e1.9	2.0	1.5	1.4	3.5
8	1.2	184	1.9	e1.3	1.2	18	2.0	e1.9	1.9	1.2	1.3	2.1
9	1.3	5.2	1.8	e1.4	3.5	2.5	1.6	e1.8	2.4	1.1	1.2	1.4
10	34	2.6	1.9	e1.4	5.1	1.8	1.4	e1.8	2.1	1.6	1.2	1.5
11	1.7	2.4	2.2	e1.4	e1.7	76	10	e1.6	1.8	1.4	1.4	2.6
12	1.4	2.6	2.1	e1.4	e2.2	8.9	2.0	11	1.7	1.6	1.5	2.1
13	1.2	2.8	3.8	e1.4	4.1	3.4	6.0	e1.8	1.5	4.2	1.5	4.3
14	1.1	7.4	9.3	e1.3	1.7	2.7	11	e1.7	1.6	2.0	3.4	21
15	1.4	15	2.7	e1.3	4.9	2.5	108	e1.7	54	1.1	1.8	2.7
16	1.4	1.9	e2.1	e1.6	1.5	2.4	3.4	e1.6	2.9	1.3	1.4	1.8
17	1.3	2.1	e1.9	e1.4	1.2	3.7	2.0	e1.5	2.0	1.1	1.5	1.7
18	1.6	2.4	e1.7	e1.2	1.2	2.8	2.2	e1.4	1.9	1.1	17	1.4
19	1.3	2.3	32	e1.3	1.3	358	2.1	e1.4	1.8	5.6	3.6	1.4
20	1.2	1.8	12	e1.1	12	259	14	e1.6	1.7	1.9	1.7	1.5
21	1.4	71	2.8	e1.1	3.0	26	2.3	e2.5	2.7	1.0	1.5	2.0
22	62	23	e2.2	e1.2	1.3	17	2.0	e1.5	1.7	1.1	1.5	2.8
23	13	3.0	e2.0	e1.1	1.1	7.9	1.8	e1.4	e1.6	1.1	1.3	1.3
24	1.8	2.4	e2.1	e1.3	e1.1	4.7	2.2	e1.4	e1.5	1.4	1.5	1.5
25	1.4	2.6	e1.8	45	1.1	3.5	e2.2	e1.5	e1.5	1.1	78	1.6
26	2.2	41	e1.8	e4.2	1.2	2.9	e2.1	e1.5	e1.4	1.3	83	15
27	19	3.4	e1.7	e2.6	1.2	2.5	e2.2	e1.4	e1.4	1.4	2.5	23
28	1.7	2.1	e1.6	e2.0	1.8	2.2	e2.2	e1.5	e1.5	1.2	1.3	7.8
29	1.2	1.9	e1.9	e1.5	5.0	2.1	e2.3	e2.5	e1.3	1.3	1.7	40
30	1.2	2.3	e1.4	e1.4	---	1.8	61	9.3	1.8	1.1	1.4	4.9
31	1.2	---	e1.4	e1.9	---	1.7	---	105	---	1.2	3.3	---
Total	166.2	525.0	167.6	90.2	128.9	825.6	258.4	180.9	500.7	59.0	249.8	158.7
Mean	5.36	17.5	5.41	2.91	4.44	26.6	8.61	5.84	16.7	1.90	8.06	5.29
Max	62	184	56	45	56	358	108	105	381	10	83	40
Min	1.1	1.4	1.4	1.1	1.1	1.3	1.2	1.4	1.3	1.0	1.2	1.3
Ac-ft	330	1,040	332	179	256	1,640	513	359	993	117	495	315

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	16.0	15.5	14.8	11.0	13.3	21.8	30.3	39.8	31.4	17.1	14.2	18.5
Max	53.4	54.1	45.3	28.1	37.2	65.6	85.9	107	92.7	56.8	57.7	43.5
(WY)	(1999)	(1997)	(1993)	(2001)	(1997)	(1998)	(2008)	(1995)	(2007)	(2004)	(2003)	(1999)
Min	3.29	1.36	1.75	1.66	0.96	4.04	2.85	5.84	1.87	1.78	1.19	3.59
(WY)	(1998)	(2006)	(2006)	(2003)	(2006)	(2005)	(1989)	(2012)	(1988)	(2011)	(2000)	(2002)

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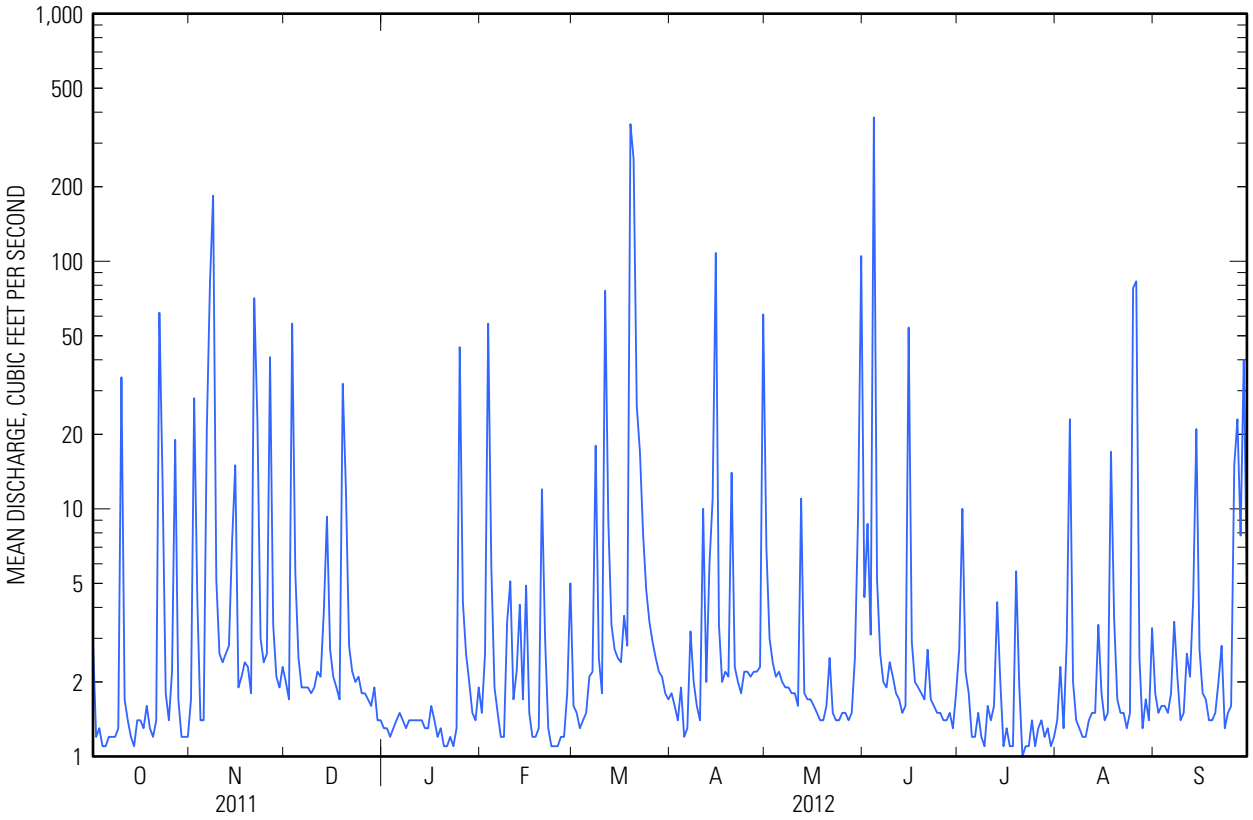
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1988 - 2012	
Annual total	4,771.96		3,311.0			
Annual mean	13.1		9.05		20.6	
Highest annual mean					35.2	1995
Lowest annual mean					9.05	2012
Highest daily mean	524	Apr 24	381	Jun 4	1,470	May 6, 2000
Lowest daily mean	0.96	Sep 15	1.0	Jul 21	0.28	Jul 4, 1996
Annual seven-day minimum	1.2	Oct 2	1.2	Jan 18	0.31	Sep 24, 2002
Maximum peak flow			6,360	Jun 4	11,600	May 6, 2000
Maximum peak stage			6.71	Jun 4	10.00	May 6, 2000
Annual runoff (ac-ft)	9,470		6,570		14,920	
10 percent exceeds	26		12		37	
50 percent exceeds	2.5		1.8		2.7	
90 percent exceeds	1.4		1.2		1.0