Water-Data Report 2013

07326000 COBB CREEK NEAR FORT COBB, OK

Washita Basin
Upper Washita Subbasin

LOCATION.--Lat 35°08′37″, long 98°26′33″ referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.27, T.8 N., R.12 W., Caddo County, OK, Hydrologic Unit 11130302, on left bank 10 ft upstream from county road bridge, 0.3 mi upstream from Punjo Creek, 2.3 mi downstream from Fort Cobb Dam, 3.0 mi north of Fort Cobb, and at mile 5.8.

DRAINAGE AREA.--311 mi^2, 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. Area at site used prior to Oct. 1, 1969, 319 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year. Published in WSP 1311. Prior to October 1960, published as Pond Creek near Fort Cobb.

REVISED RECORDS.--WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,254.49 ft above NGVD of 1929 (levels by Bureau of Reclamation). Oct.1, 1939, to Aug. 29, 1940, nonrecording gage and Aug. 30, 1940, to Sept. 30, 1969, water-stage recorder at site 0.8 mi downstream at datum 1.92 ft lower. Oct. 16, 1969, to Sept. 30, 1982, gage at same site and datum 5.00 ft higher.

REMARKS.--No estimated daily discharge. Records fair. Flow regulated since March 1959, by Fort Cobb Reservoir (station 07325900). U.S. Geological Survey satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 15, 1937, reached a stage of 19.3 ft, site and datum used in 1939, from information by local resident.

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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	2.4	0.98	2.5	2.2	2.2	2.1	2.1	2.2	2.6	0.80	2.0	0.23
2	2.3	1.7	2.7	2.3	2.3	2.0	2.7	2.2	2.5	1.5	1.9	0.43
3	2.3	2.2	2.1	2.6	2.1	2.1	2.9	2.2	2.4	1.8	1.3	0.44
4	2.3	2.4	1.1	2.2	2.2	3.6	2.5	2.3	3.9	1.6	0.60	0.25
5	2.4	2.4	1.3	2.1	2.2	2.5	2.3	2.4	4.2	0.82	0.43	0.22
6	2.4	2.4	1.3	2.5	2.2	2.2	2.3	2.3	2.4	0.75	1.0	0.19
7	2.3	2.4	1.6	2.5	2.2	2.2	2.3	2.4	2.2	0.95	0.57	0.16
8	2.4	2.4	1.9	2.6	2.1	2.3	2.3	2.0	2.3	1.3	0.39	0.19
9	2.4	2.3	1.7	2.6	2.1	2.4	2.4	0.96	2.6	1.2	1.1	0.31
10	2.2	2.1	0.95	3.0	2.1	2.3	5.2	0.81	2.2	2.0	1.6	0.24
11	2.3	1.4	1.8	2.0	2.1	2.5	2.4	0.76	2.2	0.91	1.7	0.21
12	2.4	2.4	2.6	2.1	2.5	2.4	2.2	2.0	2.0	1.4	2.2	0.19
13	6.1	2.5	2.7	2.4	2.2	2.2	2.2	2.6	1.9	1.7	2.7	0.18
14	3.2	2.6	2.8	2.4	2.1	2.2	2.3	2.6	1.9	2.2	1.8	0.29
15	2.3	2.7	2.8	2.4	2.1	2.3	2.2	8.3	1.9	2.2	1.6	0.40
16	2.3	2.4	2.5	2.1	2.0	2.3	2.2	4.6	2.0	2.1	1.5	0.32
17	2.2	2.6	2.3	2.1	2.1	2.2	2.3	2.9	26	1.9	1.5	0.32
18	2.0	2.8	2.0	1.3	2.1	2.3	2.4	3.4	2.9	1.9	1.5	0.60
19	2.1	2.4	1.2	0.78	2.0	2.3	2.1	5.7	2.5	1.6	1.2	1.3
20	2.2	2.4	1.2	0.94	2.3	2.3	2.1	2.7	2.4	1.7	0.32	1.4
21	2.2	2.5	0.86	2.3	2.4	2.4	2.1	2.8	2.3	1.4	0.21	1.2
22	2.2	2.2	0.99	2.3	2.0	2.4	2.2	2.7	2.3	1.3	0.55	1.2
23	2.3	2.4	2.2	2.3	2.0	2.4	2.2	2.7	2.5	0.92	0.77	1.6
24	2.4	2.9	2.0	2.1	2.0	2.3	2.1	2.7	2.2	0.78	0.26	1.3
25	2.3	2.7	2.8	1.8	3.6	2.3	2.1	2.6	2.2	1.4	0.60	0.53
26	2.3	2.7	2.9	2.2	2.2	2.3	2.3	2.7	2.1	149	0.97	1.1
27	2.3	2.6	2.7	2.3	1.9	2.4	2.6	2.2	0.87	4.8	1.2	1.5
28	2.4	2.7	2.5	2.4	2.0	2.3	2.2	1.9	0.82	2.5	0.94	5.9
29	1.8	2.4	2.2	2.5	---	1.1	2.2	9.6	1.7	2.3	0.26	1.9
30	0.88	1.5	1.4	2.3	---	0.81	2.2	6.0	1.3	2.2	0.18	1.6
31	1.0	---	1.6	2.3	---	0.99	---	2.7	---	2.2	0.15	---
Total	72.58	70.08	61.20	67.92	61.3	68.40	71.6	93.93	91.29	199.13	33.00	25.70
Mean	2.34	2.34	1.97	2.19	2.19	2.21	2.39	3.03	3.04	6.42	1.06	0.86
Max	6.1	2.9	2.9	3.0	3.6	3.6	5.2	9.6	26	149	2.7	5.9
Min	0.88	0.98	0.86	0.78	1.9	0.81	2.1	0.76	0.82	0.75	0.15	0.16
Ac-ft	144	139	121	135	122	136	142	186	181	395	65	51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	20.5	24.2	18.6	23.0	24.6	38.8	37.8	50.7	109	34.7	23.5	26.4
Max	345	538	194	139	131	312	347	429	779	353	368	468
(WY)	(1987)	(1987)	(1993)	(1969)	(1975)	(1990)	(2008)	(1993)	(1987)	(2007)	(2007)	(2007)
Min	1.41	1.47	1.50	1.70	2.07	1.86	1.69	1.50	1.22	0.64	1.02	0.86
(WY)	(1985)	(2007)	(2007)	(2007)	(2012)	(2011)	(2011)	(1985)	(2011)	(2011)	(2011)	(2013)

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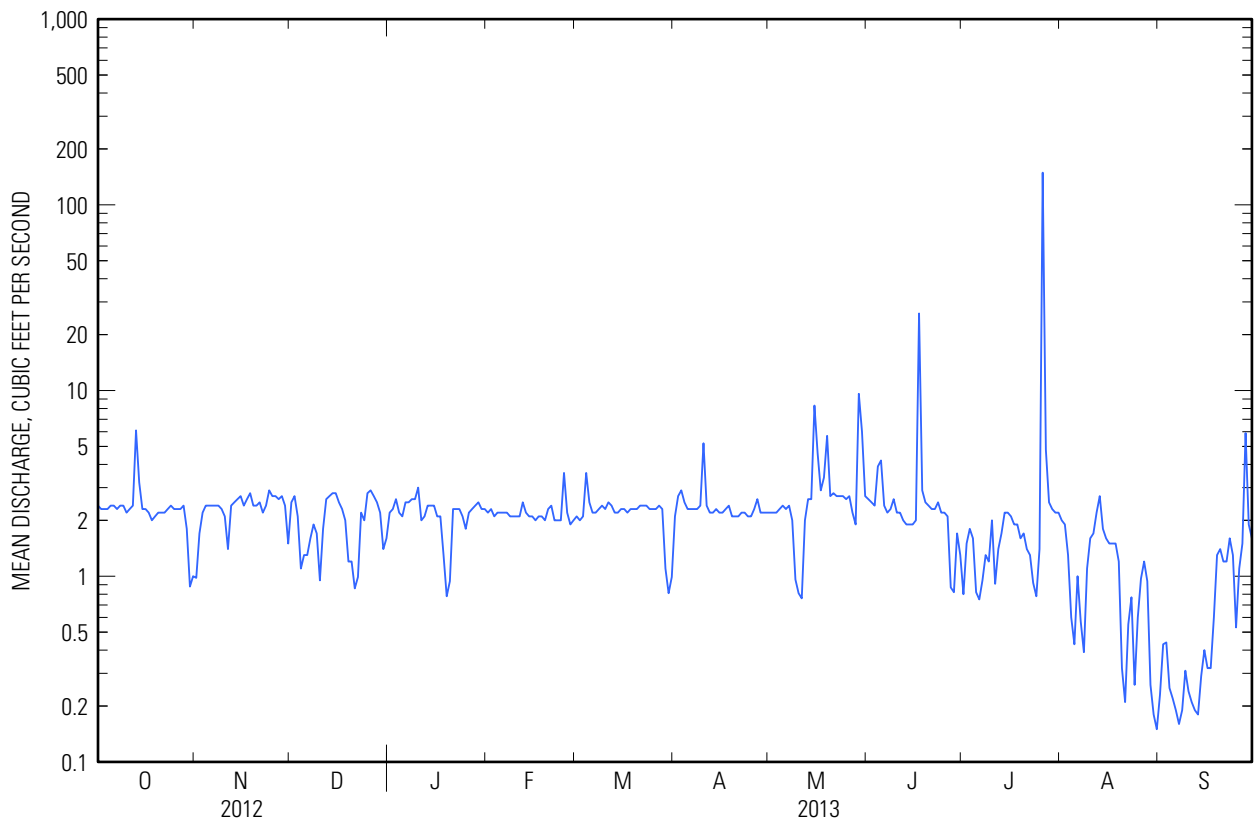
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1963 - 2013	
Annual total	781.32		916.13			
Annual mean	2.13		2.51		[b]35.9	
Highest annual mean					176	1987
Lowest annual mean					2.08	2012
Highest daily mean	[a]19	Apr 14	149	Jul 26	1,270	Jun 23, 1987
Lowest daily mean	0.69	Aug 6	0.15	Aug 31	0.02	Oct 3, 2009
Annual seven-day minimum	0.74	Jul 22	0.21	Sep 7	0.20	Jul 20, 1981
Maximum peak flow			494	Jul 26	[c,d]2,300	Aug 19, 2007
Maximum peak stage			10.12	Jul 26	[e]23.01	Aug 19, 2007
Annual runoff (ac-ft)	1,550		1,820		26,040	
10 percent exceeds	2.7		2.7		90	
50 percent exceeds	2.1		2.2		3.0	
90 percent exceeds	0.98		0.79		1.9	

[a] Estimated
[b] Prior to regulation by Fort Cobb Reservoir, water years 1940-58, 50.2 ft³/s.
[c] Estimated, affected by backwater from Punjo Creek.
[d] Maximum discharge for period of record, 35,000 ft³/s, May 17, 1949, from rating curve extended above 4,300 ft³/s on basis of contracted opening measurement.
[e] From high-water mark, occurred during backwater from Punjo Creek.