Water-Data Report 2011

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, 3.0mi north of Fort Cobb, and at mile 5.8.

DRAINAGE AREA.--307 mi^2, Area at site used prior to Oct. 1, 1969, 319 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1311. Prior to October 1960, published as Pond Creek near Fort Cobb.

REVISED RECORDS.--WSP 1087: 1938. WDR OK-94-2: 1993 (M) 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.--Records poor. 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.

07326000 COBB CREEK NEAR FORT COBB, OK—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

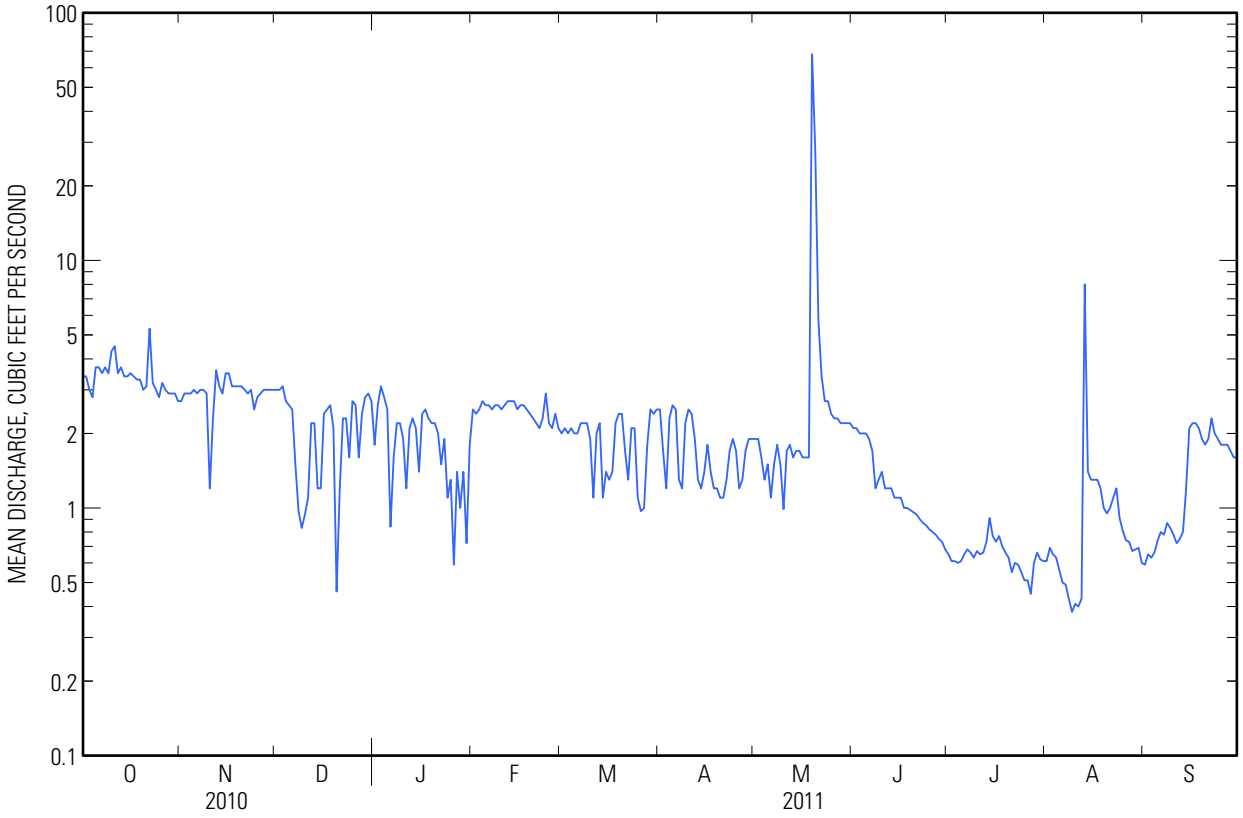
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.4	2.7	3.0	1.8	2.5	2.0	2.5	1.9	2.1	0.65	0.61	0.59
2	3.4	2.9	3.0	2.6	2.4	2.1	1.7	1.9	2.1	0.61	0.69	0.65
3	3.0	2.9	3.1	3.1	2.5	2.0	1.2	1.6	2.0	0.61	0.65	0.63
4	2.8	2.9	2.7	2.8	2.7	2.1	2.3	1.3	2.0	0.60	0.63	0.66
5	3.7	3.0	2.6	2.5	2.6	2.0	2.6	1.5	2.0	0.61	0.56	0.74
6	3.7	2.9	2.5	0.84	2.6	2.0	2.5	1.1	1.9	0.65	0.50	0.80
7	3.5	3.0	1.5	1.6	2.5	2.2	1.3	1.5	1.7	0.68	0.49	0.78
8	3.7	3.0	0.97	2.2	2.6	2.2	1.2	1.8	1.2	0.66	0.43	0.87
9	3.5	2.9	0.83	2.2	2.6	2.2	2.2	1.5	1.3	0.63	0.38	0.83
10	4.3	1.2	0.94	1.9	2.5	1.9	2.5	0.99	1.4	0.67	0.41	0.78
11	4.5	2.3	1.1	1.2	2.6	1.1	2.4	1.7	1.2	0.65	0.40	0.72
12	3.5	3.6	2.2	2.1	2.7	2.0	1.9	1.8	1.2	0.66	0.43	0.75
13	3.7	3.1	2.2	2.3	2.7	2.2	1.3	1.6	1.2	0.73	8.0	0.80
14	3.4	2.9	1.2	2.1	2.7	1.1	1.2	1.7	1.1	0.91	1.4	1.2
15	3.4	3.5	1.2	1.4	2.5	1.4	1.4	1.7	e1.1	0.77	1.3	2.1
16	3.5	3.5	2.4	2.4	2.6	1.3	1.8	1.6	e1.1	0.73	1.3	2.2
17	3.4	3.1	2.5	2.5	2.6	1.4	1.4	1.6	e1.0	0.77	1.3	2.2
18	3.3	3.1	2.6	2.3	2.5	2.2	1.2	1.6	e1.0	0.70	1.2	2.1
19	3.3	3.1	2.1	2.2	2.4	2.4	1.2	e68	e0.98	0.66	1.0	1.9
20	3.0	3.1	0.46	2.2	2.3	2.4	1.1	e28	e0.96	0.63	0.95	1.8
21	3.1	3.0	1.2	2.0	2.2	1.7	1.1	5.7	e0.94	0.55	1.0	1.9
22	5.3	2.9	2.3	1.5	2.1	1.3	1.3	3.4	e0.90	0.60	1.1	2.3
23	3.2	3.0	2.3	1.9	2.3	2.1	1.7	2.7	e0.87	0.59	1.2	2.0
24	3.0	2.5	1.6	1.1	2.9	2.1	1.9	2.7	e0.85	0.55	0.91	1.9
25	2.8	2.8	2.7	1.3	2.2	1.1	1.7	2.4	e0.82	0.51	0.81	1.8
26	3.2	2.9	2.6	0.59	2.1	0.97	1.2	2.3	e0.80	0.51	0.74	1.8
27	3.0	3.0	1.6	1.4	2.4	1.0	1.3	2.3	e0.78	0.45	0.73	1.8
28	2.9	3.0	2.4	1.0	2.1	1.8	1.7	2.2	e0.75	0.60	0.67	1.7
29	2.9	3.0	2.8	1.4	---	2.5	1.9	2.2	e0.73	0.66	0.68	1.6
30	2.9	3.0	2.9	0.72	---	2.4	1.9	2.2	0.68	0.62	0.69	1.6
31	2.7	---	2.7	1.8	---	2.5	---	2.2	---	0.61	0.60	---
Total	105.0	87.8	64.20	56.95	69.4	57.67	50.6	154.69	36.66	19.83	31.76	41.50
Mean	3.39	2.93	2.07	1.84	2.48	1.86	1.69	4.99	1.22	0.64	1.02	1.38
Max	5.3	3.6	3.1	3.1	2.9	2.5	2.6	68	2.1	0.91	8.0	2.3
Min	2.7	1.2	0.46	0.59	2.1	0.97	1.1	0.99	0.68	0.45	0.38	0.59
Ac-ft	208	174	127	113	138	114	100	307	73	39	63	82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	21.2	25.0	19.3	23.8	25.5	40.3	39.2	52.7	114	36.0	24.5	27.4
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	1.38
(WY)	(1985)	(2007)	(2007)	(2007)	(2007)	(2011)	(2011)	(1985)	(2011)	(2011)	(2011)	(2011)

07326000 COBB CREEK NEAR FORT COBB, OK—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1963 - 2011	
Annual total	8,554.72		776.06			
Annual mean	23.4		2.13		[c]37.3	
Highest annual mean					176	1987
Lowest annual mean					2.13	2011
Highest daily mean	264	Jul 15	[a]68	May 19	1,270	Jun 23, 1987
Lowest daily mean	0.12	Jan 27	0.38	Aug 9	0.02	Oct 3, 2009
Annual seven-day minimum	1.3	Dec 8	0.43	Aug 6	0.20	Jul 20, 1981
Maximum peak flow			[b,d]140	May 19	[d,e]2,300	Aug 19, 2007
Maximum peak stage			[g]11.27	May 19	[f]23.01	Aug 19, 2007
Annual runoff (ac-ft)	16,970		1,540		27,030	
10 percent exceeds	155		3.0		97	
50 percent exceeds	3.3		1.9		3.0	
90 percent exceeds	2.0		0.66		1.9	

[a] Estimated
[b] Gage height for maximum discharge 6.88 ft.
[c] Prior to regulation by Fort Cobb Reservoir, water years 1940-58, 50.2 ft^3/s.
[d] Estimated, affected by backwater from Punjo Creek.
[e] Maximum discharge for period of record, 35,000 ft^3/s, May 17, 1949, from rating curve extended above 4,300 ft^3/s on basis of contracted opening measurement.
[f] From high-water mark, occurred during backwater from Punjo Creek.
[g] Occurred during backwater from Punjo Creek.