Water-Data Report 2012

07245000 CANADIAN RIVER NEAR WHITEFIELD, OK

Lower Canadian Basin
Lower Canadian Subbasin

LOCATION.--Lat 35°15′44″, long 95°14′13″ referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.7, T.9 N., R.20 E., Haskell County, OK, Hydrologic Unit 11090204, on right downstream bank at end of bridge on State Highway 2, 0.8 mi north of Whitefield, 5.5 mi upstream from Taloka (Snake) Creek, 8.2 mi downstream from Eufaula Dam, and at mile 18.8.

DRAINAGE AREA.--47,283 mi² of which 8,134 mi² probably is noncontributing, 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.--October 1938 to current year. Monthly discharge only for some periods, published in WSP 1311.

REVISED RECORDS.--WSP 1177: Drainage area. WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 473.16 ft above NGVD of 1929. Prior to Jan. 11, 1939, nonrecording gage and Jan. 11, 1939 to Dec. 10, 1941, June 12, 1947 to Sept. 30, 1948, water-stage recorder, all at site 2.1 mi downstream at datum 2.20 ft higher. Dec. 11, 1941 to June 1, 1947, and Oct. 1, 1948 to Sept. 30, 1978, water-stage recorder at site 400 ft upstream and at datum 5.00 ft higher. Oct. 1, 1978 to July 26, 1983, water-stage recorder at site 400 ft upstream at same datum.

REMARKS.--Records poor. Prior to February 1964, occasional slight regulation by Conchas Lake in New Mexico and, except for 54 mi² of intervening area, completely regulated thereafter by Eufaula Lake (station 07244800). U.S. Army Corps of Engineers' satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1898, that of May 10, 1943, from information by local resident.

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 07245000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/07245000.2012.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	76	835	60	47	6,310	502	14,500	1,960	831	1,110	2,290	44
2	59	736	61	41	5,260	780	13,200	1,170	143	2,030	2,540	462
3	1,340	351	66	38	5,160	92	8,720	1,410	92	1,690	1,950	1,370
4	470	1,720	113	41	5,800	616	6,970	1,600	2,490	1,620	1,530	2,040
5	73	121	164	40	8,760	1,230	4,950	666	1,930	1,870	932	1,310
6	57	71	324	40	9,000	979	5,100	184	663	2,490	1,100	438
7	53	88	516	40	9,080	82	5,560	610	143	1,860	1,430	55
8	53	178	762	39	9,130	271	3,570	1,840	1,580	1,360	1,690	47
9	53	114	116	41	7,070	1,160	4,930	1,610	623	2,030	618	37
10	59	68	64	69	5,670	92	15,300	2,260	131	1,920	82	37
11	56	59	55	107	3,950	77	12,700	1,480	2,510	1,740	59	36
12	57	54	53	70	4,810	244	8,910	1,620	1,970	1,390	479	36
13	53	51	52	57	5,410	2,360	9,680	3,700	1,220	1,760	562	50
14	50	52	66	54	4,020	4,060	8,730	8,550	1,890	771	170	54
15	50	62	193	47	2,880	4,660	9,000	8,440	2,220	1,080	52	40
16	50	66	86	49	2,130	4,450	8,970	8,460	1,470	2,070	46	38
17	1,040	58	67	53	2,240	3,240	9,250	4,240	1,060	1,510	43	37
18	676	53	60	84	208	3,080	8,500	3,080	2,020	2,200	77	38
19	76	53	59	168	130	4,630	9,030	2,460	1,430	2,470	51	36
20	1,730	58	170	71	459	4,970	10,400	999	1,810	1,820	44	157
21	130	176	96	50	2,300	831	8,240	437	2,480	1,260	393	273
22	86	526	77	40	1,750	8,860	6,220	142	1,430	841	397	351
23	145	126	67	41	910	14,500	7,200	1,070	730	1,630	50	256
24	458	91	59	34	1,590	20,200	6,970	2,870	710	1,790	42	755
25	850	78	58	1,810	1,320	28,500	6,490	4,110	1,530	994	47	417
26	1,910	82	56	1,080	234	28,300	6,620	4,470	1,750	1,660	337	42
27	2,080	79	56	1,260	2,230	28,300	4,040	1,160	2,150	729	1,930	36
28	2,600	67	49	139	533	28,200	1,430	1,950	2,410	1,620	1,470	32
29	771	67	49	94	326	28,100	255	3,680	1,480	2,270	1,360	258
30	84	62	47	77	---	23,400	1,200	1,960	1,460	2,350	757	404
31	1,070	---	42	2,020	---	14,700	---	2,070	---	1,830	68	---
Total	16,315	6,202	3,763	7,841	108,670	261,466	226,635	80,258	42,356	51,765	22,596	9,186
Mean	526	207	121	253	3,747	8,434	7,554	2,589	1,412	1,670	729	306
Max	2,600	1,720	762	2,020	9,130	28,500	15,300	8,550	2,510	2,490	2,540	2,040
Min	50	51	42	34	130	77	255	142	92	729	42	32
Ac-ft	32,360	12,300	7,460	15,550	215,500	518,600	449,500	159,200	84,010	102,700	44,820	18,220

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,774	5,030	5,554	5,761	5,783	8,532	8,787	11,620	9,625	5,736	3,717	2,402
Max	14,320	21,930	29,600	32,030	19,480	30,340	37,980	64,970	35,550	43,060	20,050	13,910
(WY)	(2010)	(1975)	(1993)	(1998)	(1993)	(1985)	(1990)	(1990)	(1982)	(2007)	(1992)	(1992)
Min	69.5	207	121	75.5	127	54.9	81.5	148	536	259	204	174
(WY)	(2003)	(2012)	(2012)	(2006)	(1981)	(2006)	(1981)	(1981)	(2006)	(1988)	(2006)	(2006)

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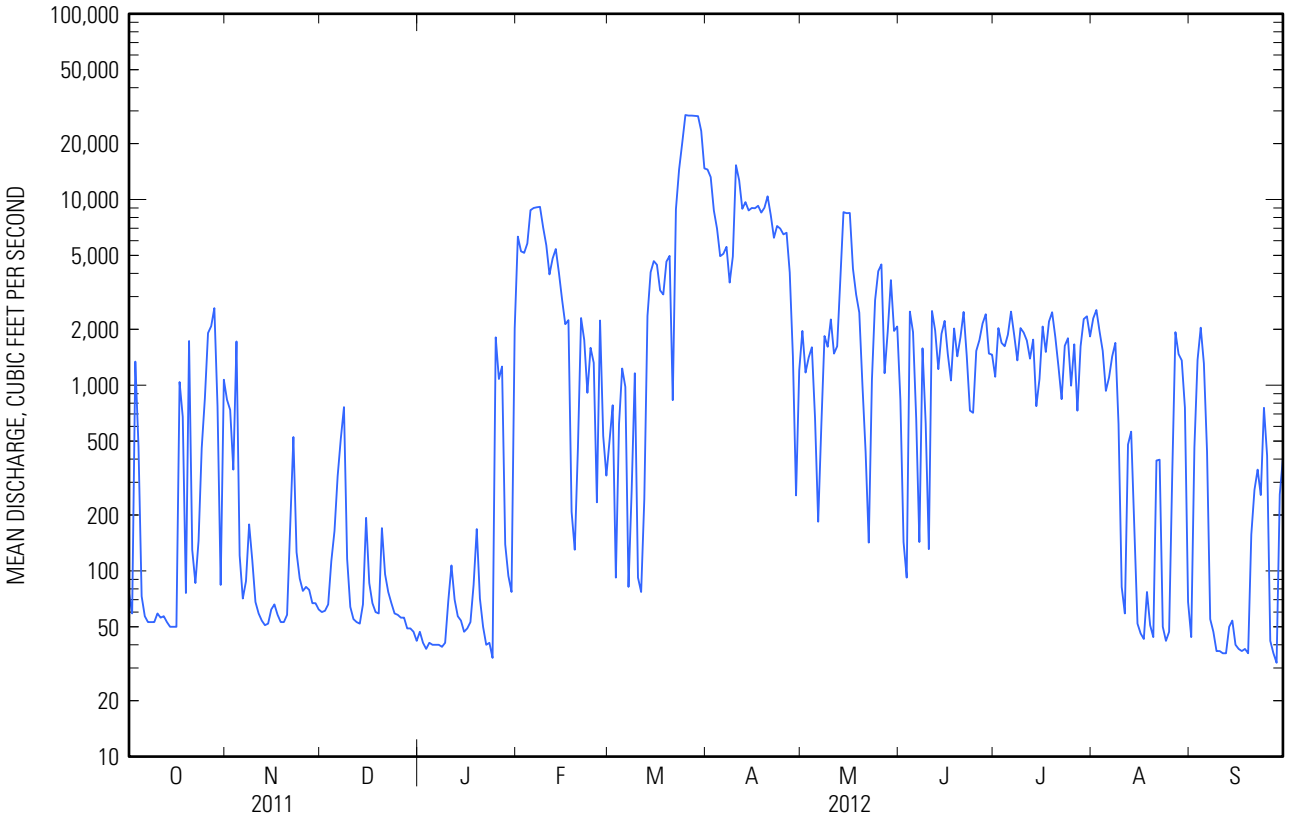
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1968 - 2012	
Annual total	702,931		837,053			
Annual mean	1,926		2,287		[a]6,279	
Highest annual mean					15,200	1993
Lowest annual mean					357	2006
Highest daily mean	20,000	May 13	28,500	Mar 25	226,000	May 5, 1990
Lowest daily mean	39	Apr 17	32	Sep 28	[b]17	Dec 1, 1980 [c]
Annual seven-day minimum	48	Apr 14	40	Jan 2	31	Nov 8, 2002
Maximum peak flow			28,800	Mar 25	[d]241,000	May 3, 1990
Maximum peak stage			11.01	Mar 25	[e]25.32	May 3, 1990
Annual runoff (ac-ft)	1,394,000		1,660,000		4,549,000	
10 percent exceeds	4,410		6,720		15,900	
50 percent exceeds	486		760		3,220	
90 percent exceeds	56		49		114	

[a] Prior to regulation, water years 1939-63, 6,005 ft^3/s.
[b] Minimum daily discharge for period of record 0.4 ft^3/s, Oct. 8, 1956.
[c] Also Nov. 1, 2007.
[d] Maximum discharge for period of record 281,000 ft^3/s, May 10, 1943.
[e] Maximum gage height for period of record 25.5 ft, May 10, 1943.