Water-Data Report 2012

07229200 CANADIAN RIVER AT PURCELL, OK

Lower Canadian Basin
Lower Canadian-Walnut Subbasin

LOCATION.--Lat 35°00′50″, long 97°20′50″ referenced to North American Datum of 1927, in NW ¼ sec.7, T.6 N., R.1 W., Cleveland County, OK, Hydrologic Unit 11090202, near left bank on downstream side of pier of U.S. Highway 77, 0.5 mi east of Purcell, 1.0 mi upstream from Walnut Creek, and at mile 184.9.

DRAINAGE AREA.--25,394 mi^2 of which 4,637 mi^2 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 1959 to June 1961, October 1979 to September 1983, October 1985 to current year.

REVISED RECORDS.--OK-95-1: 1994 (M). WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,017.14 ft above NGVD of 1929.

REMARKS.--Records poor. Flow regulated since October 1964 by Lake Meredith (station 07227900) located in Texas. U.S. Army Corps of Engineers' satellite telemeter located at site.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1904 reached a stage of 14.18 ft and flood in 1914 reached a stage of 12.98 ft, from information by the Atchison, Topeka, and Santa Fe Railway Co.

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 07229200, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/07229200.2012.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	9.7	e28	66	96	138	280	e417	e223	328	e27	e7.5	18
2	10	e21	58	92	130	276	e380	e447	200	e26	e6.5	15
3	11	e19	126	86	136	271	e498	806	195	25	e5.6	e13
4	11	22	331	89	161	266	756	720	137	23	e4.9	13
5	11	18	182	87	142	e249	685	e458	105	22	e4.6	12
6	9.7	16	130	86	765	e224	634	e588	116	22	e4.7	e12
7	8.9	28	112	86	716	e211	562	537	179	22	5.3	e12
8	11	467	111	87	536	e254	517	460	164	25	6.4	e10
9	240	1,790	100	85	395	292	493	385	152	e26	5.2	11
10	962	1,240	92	90	382	316	502	321	394	27	e5.3	9.3
11	385	568	83	e85	342	528	492	309	203	39	e5.0	e7.0
12	128	382	85	e81	318	515	476	357	124	124	6.6	e7.7
13	75	260	88	87	337	380	457	317	106	100	7.5	8.6
14	59	192	90	89	345	333	1,980	282	83	44	e6.0	12
15	44	147	132	e83	e329	323	1,480	284	e69	31	5.5	16
16	33	111	95	e81	e320	e315	940	259	e54	e27	e11	18
17	e25	89	90	e82	e319	e305	589	212	48	24	14	e17
18	e18	64	88	90	e392	e304	501	174	e37	23	48	17
19	e20	61	92	95	448	e2,930	521	e138	e28	21	193	14
20	21	62	173	98	380	2,990	695	e190	59	20	56	11
21	23	61	152	e93	376	1,060	655	e292	159	e19	35	11
22	28	421	146	e87	348	705	528	e292	98	16	30	10
23	70	196	159	e95	328	770	428	273	e69	16	e27	9.4
24	43	e118	171	104	305	693	364	195	78	e11	23	9.1
25	30	e113	146	633	306	564	305	171	74	9.6	e23	e8.8
26	29	e149	133	583	300	498	312	151	59	9.4	279	e12
27	48	150	123	279	293	475	258	134	41	e13	137	152
28	127	100	113	207	289	456	259	117	30	15	e49	1,480
29	92	83	112	196	295	480	e248	130	e28	12	e31	1,040
30	54	72	108	e170	---	487	e234	655	e30	10	e25	616
31	40	---	100	e146	---	e453	---	647	---	e8.9	e22	---
Total	2,676.3	7,048	3,787	4,348	9,871	18,203	17,166	10,524	3,447	837.9	1,089.6	3,601.9
Mean	86.3	235	122	140	340	587	572	339	115	27.0	35.1	120
Max	962	1,790	331	633	765	2,990	1,980	806	394	124	279	1,480
Min	8.9	16	58	81	130	211	234	117	28	8.9	4.6	7.0
Ac-ft	5,310	13,980	7,510	8,620	19,580	36,110	34,050	20,870	6,840	1,660	2,160	7,140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	524	498	564	580	640	906	864	1,526	1,222	399	359	366
Max	7,083	2,648	2,602	2,055	1,865	3,533	3,168	7,717	5,863	2,522	3,724	1,563
(WY)	(1987)	(1987)	(1992)	(1987)	(1987)	(1998)	(1999)	(1993)	(1989)	(2007)	(2007)	(1996)
Min	2.84	11.9	101	23.7	21.3	113	38.1	73.1	58.6	14.7	2.00	2.54
(WY)	(1981)	(1981)	(2004)	(1981)	(1981)	(1981)	(1981)	(1981)	(2011)	(2011)	(1980)	(1980)

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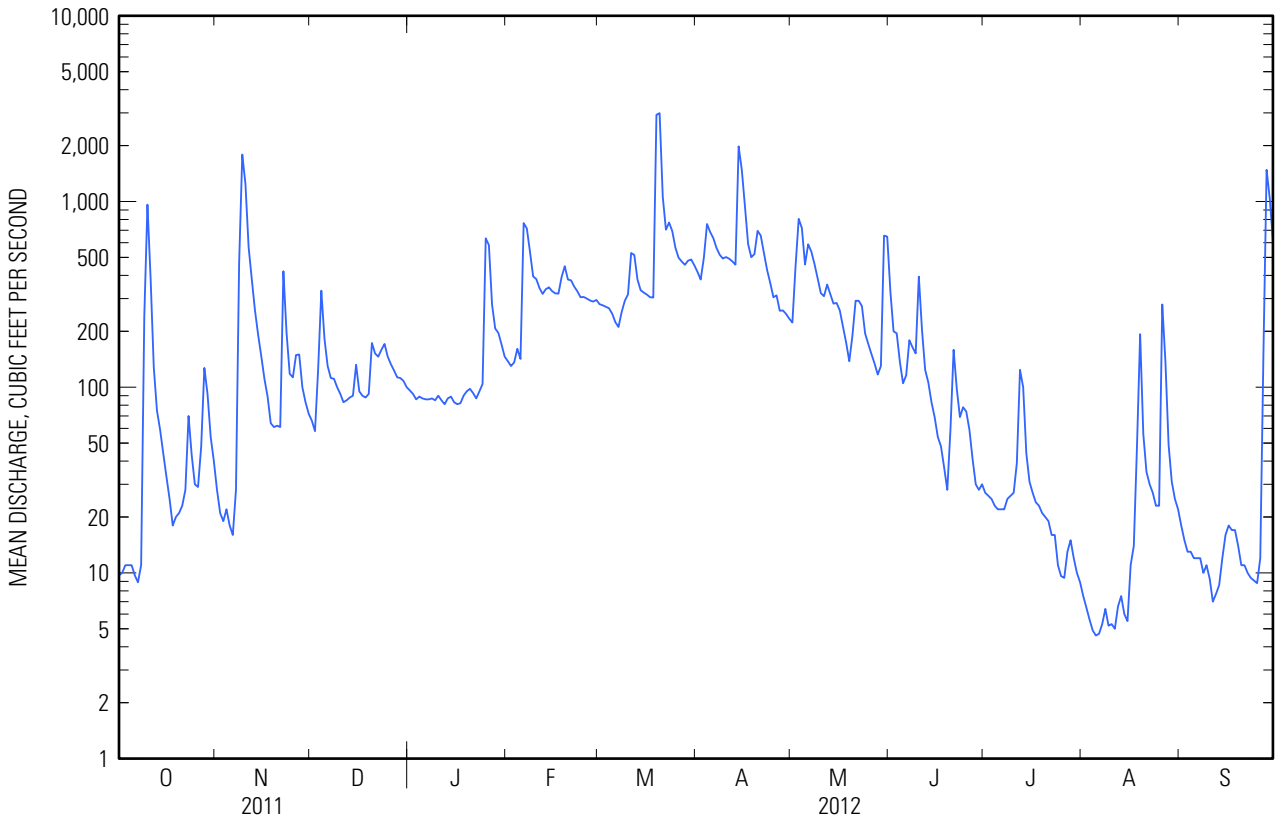
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1980 - 2012	
Annual total	55,752.5		82,599.7			
Annual mean	153		226		704	
Highest annual mean					2,287	1987
Lowest annual mean					117	1981
Highest daily mean	4,510	May 20	2,990	Mar 20	71,000	May 29, 1987
Lowest daily mean	6.0	Sep 1	[a]4.6	Aug 5	0.00	At times
Annual seven-day minimum	6.8	Aug 30	5.2	Aug 4	0.00	Aug 6, 1980
Maximum peak flow			6,090	Mar 20	102,000	May 29, 1987
Maximum peak stage			8.55	Mar 20	[b]14.75	May 29, 1987
Annual runoff (ac-ft)	110,600		163,800		510,000	
10 percent exceeds	291		528		1,300	
50 percent exceeds	93		112		325	
90 percent exceeds	9.9		11		37	

[a] Estimated.
[b] From high-water mark.