Water-Data Report 2013

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, 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.--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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	480	39	34	130	101	331	240	e328	10,300	94	641	51
2	441	39	45	110	109	301	306	e289	5,510	e84	e520	45
3	201	38	43	99	123	360	883	e260	1,020	e72	e500	41
4	126	39	48	96	102	304	1,480	e240	1,070	e61	e360	36
5	86	37	49	97	91	286	895	e230	1,430	e54	e280	33
6	64	38	48	99	84	269	e438	e225	1,500	e48	218	31
7	52	37	51	92	87	265	e344	e220	896	e45	174	26
8	44	35	51	90	84	e259	e320	e210	642	e43	e154	24
9	e35	e37	e51	91	e81	e280	e302	663	655	e40	467	20
10	32	e40	e51	143	e80	341	e759	542	550	e37	717	19
11	29	e100	51	159	82	294	e1,240	431	439	e33	360	18
12	28	169	50	123	102	257	680	345	363	e29	510	16
13	e30	94	e49	111	201	237	e407	e302	308	e28	506	36
14	108	69	e49	104	157	223	e395	e275	257	104	612	25
15	557	63	e65	99	129	e216	356	e260	238	321	513	16
16	249	61	68	92	122	e209	301	e420	266	635	1,020	15
17	136	55	63	86	e120	209	e280	e350	437	607	701	16
18	101	e51	63	e86	e114	215	e3,530	e310	770	501	615	40
19	78	52	56	83	109	210	1,540	434	905	338	e422	68
20	68	51	e48	80	156	197	e539	637	493	240	309	141
21	e62	52	55	78	298	176	e360	805	e354	e136	248	55
22	e55	e49	57	76	374	168	e302	540	e269	e89	203	35
23	54	46	62	77	237	e162	e275	e396	e204	e79	170	26
24	e53	44	57	78	195	e159	e260	e921	e173	e122	150	21
25	48	46	65	78	323	e154	e250	506	e152	254	128	17
26	47	47	e59	e76	490	e149	e240	e337	e137	e5,300	112	13
27	44	48	e56	e64	823	e146	e540	e306	e125	3,880	99	9.9
28	43	49	e58	e61	563	e143	e480	e286	e117	2,200	87	e94
29	42	45	e60	e82	---	e138	e425	e283	e109	1,030	81	240
30	41	41	e62	e127	---	e139	e385	e322	e102	1,110	71	115
31	40	---	97	126	---	234	---	370	---	e1,700	61	---
Total	3,474	1,611	1,721	2,993	5,537	7,031	18,752	12,043	29,791	19,314	11,009	1,342.9
Mean	112	53.7	55.5	96.5	198	227	625	388	993	623	355	44.8
Max	557	169	97	159	823	360	3,530	921	10,300	5,300	1,020	240
Min	28	35	34	61	80	138	240	210	102	28	61	9.9
Ac-ft	6,890	3,200	3,410	5,940	10,980	13,950	37,190	23,890	59,090	38,310	21,840	2,660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	511	484	548	565	626	884	857	1,490	1,214	406	359	356
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	55.5	23.7	21.3	113	38.1	73.1	58.6	14.7	2.00	2.54
(WY)	(1981)	(1981)	(2013)	(1981)	(1981)	(1981)	(1981)	(1981)	(2011)	(2011)	(1980)	(1980)

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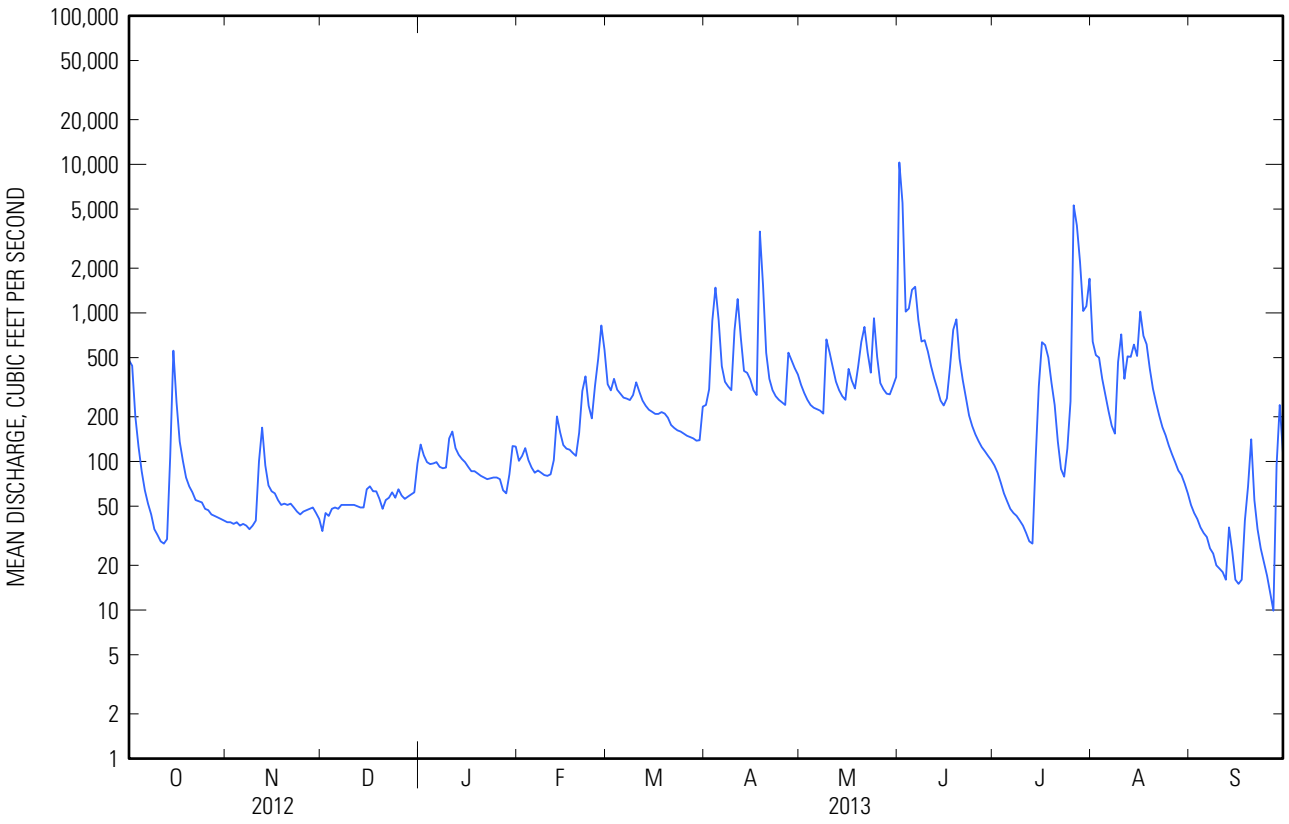
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1980 - 2013	
Annual total	75,894.4		114,618.9			
Annual mean	207		314		692	
Highest annual mean					2,287	1987
Lowest annual mean					117	1981
Highest daily mean	2,990	Mar 20	10,300	Jun 1	71,000	May 29, 1987
Lowest daily mean	[a]4.6	Aug 5	9.9	Sep 27	0.00	At times
Annual seven-day minimum	5.2	Aug 4	20	Sep 11	0.00	Aug 6, 1980
Maximum peak flow			15,300	Jun 1	102,000	May 29, 1987
Maximum peak stage			11.53	Jun 1	[b]14.75	May 29, 1987
Annual runoff (ac-ft)	150,500		227,300		501,200	
10 percent exceeds	516		613		1,290	
50 percent exceeds	86		126		319	
90 percent exceeds	12		39		37	

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