Water-Data Report 2013

07241800 NORTH CANADIAN RIVER AT SHAWNEE, OK

Lower North Canadian Basin
Lower North Canadian Subbasin

LOCATION.--Lat 35°19′59″, long 96°52′09″ referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.15, T.10 N., R.4 E., Pottawatomie County, OK, Hydrologic Unit 11100302, on right bank downstream side State Highway 3E bridge, 2.8 mi east from Highway 18, 3E junction and at mile 203.

DRAINAGE AREA.--14,005 mi^2 of which 3,497 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.--February 2001 to current year.

REVISED RECORDS.--WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 898.51 ft above NGVD of 1929 (Oklahoma State Highway Department benchmark).

REMARKS. -- Records poor. Flow regulated by Canton Lake (station 07238500) and by Lake Overholser (station 07240500) where diversions are made into Lake Hefner Canal (station 07240000). Low flow sustained in part by sewage effluent from Oklahoma City. U.S. Geological Survey's satellite telemeter located at station.

07241800 NORTH CANADIAN RIVER AT SHAWNEE, OK—Continued

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

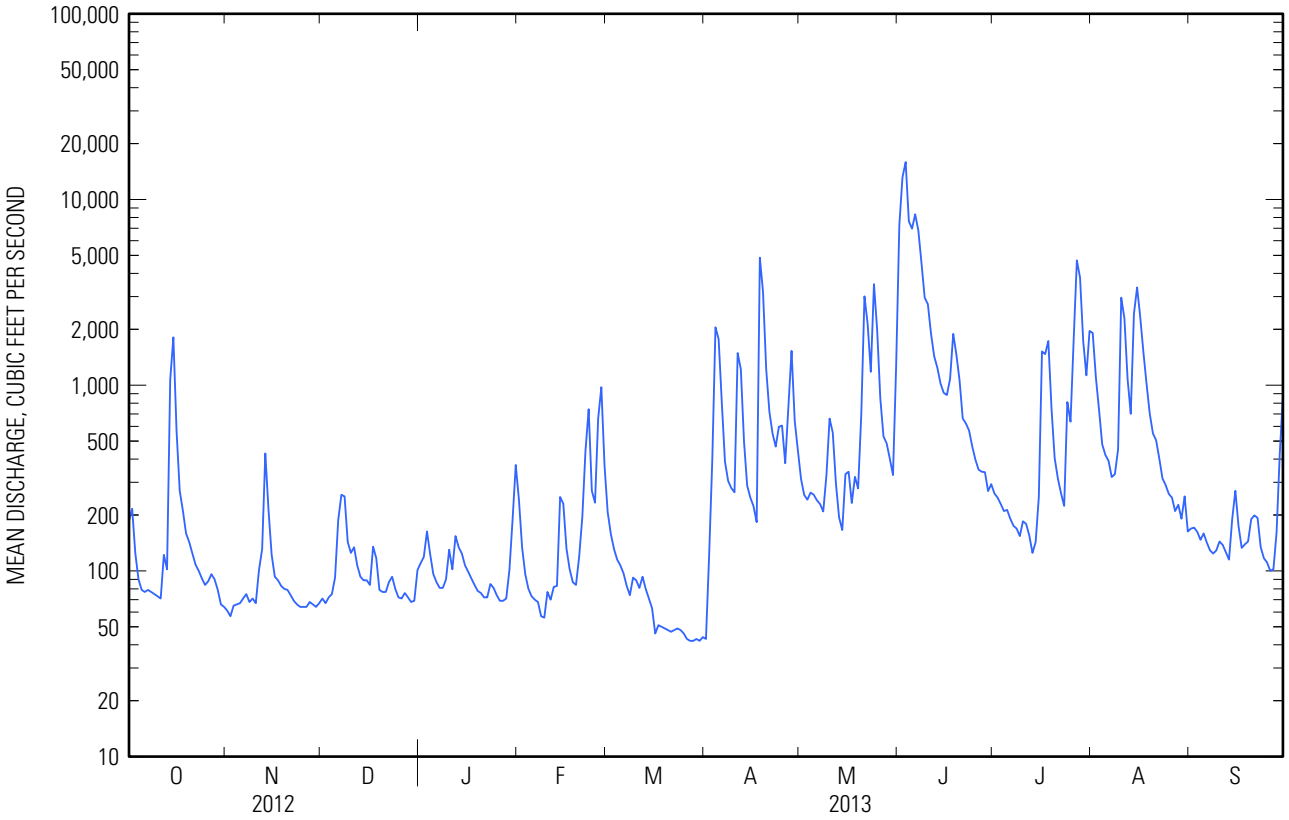
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e186	61	e71	e110	242	e207	e43	e312	e7,280	261	1,910	169
2	216	57	e67	119	e134	e158	121	e256	13,200	248	1,100	171
3	e124	65	e72	163	96	e131	398	e242	e15,900	229	736	162
4	e90	66	e75	123	e80	e115	2,050	e264	7,630	210	480	147
5	e79	e67	92	96	73	e107	1,770	e257	e6,970	213	421	159
6	77	71	188	e87	e70	97	806	e240	e8,320	191	391	142
7	79	75	257	81	e68	e83	e387	e229	e6,800	175	320	129
8	77	e68	252	81	57	74	e305	e209	4,520	169	332	124
9	e75	e71	e143	90	56	92	e279	327	2,960	154	451	129
10	73	e67	e125	130	e77	e89	e265	661	e2,730	185	2,960	144
11	71	e101	134	e102	e70	81	e1,490	e555	e1,890	179	2,290	138
12	122	131	e107	e154	82	93	1,220	295	e1,430	155	1,080	126
13	e102	429	e93	e134	83	80	e498	194	e1,240	125	701	115
14	e1,070	214	89	124	e250	71	e288	e166	e1,020	143	2,420	190
15	1,810	122	89	e107	e230	e63	248	e332	910	250	3,360	270
16	568	93	e84	99	132	e46	e223	342	885	1,520	2,320	174
17	e270	89	135	e91	e102	e51	e183	232	1,080	1,470	1,500	133
18	e211	83	117	e84	e87	e50	4,860	e321	1,890	1,730	1,010	139
19	e159	80	e79	78	84	49	3,180	e278	1,460	752	701	144
20	143	79	e77	e76	119	48	e1,220	699	1,060	405	550	190
21	e124	74	77	e72	e195	47	e722	3,010	662	315	505	199
22	108	e69	87	72	e445	e48	e550	2,140	622	262	403	193
23	100	e66	e93	85	742	e49	e467	1,180	570	224	315	134
24	91	64	e80	e81	270	e48	e597	3,500	468	811	290	117
25	e84	64	e72	e74	e233	e46	606	1,990	397	636	260	111
26	e88	e64	e71	69	e663	43	e380	849	351	1,770	248	100
27	96	e68	76	69	975	e42	e763	e530	342	4,700	210	102
28	90	66	e72	e71	370	e42	1,530	e486	340	e3,800	227	161
29	79	e64	68	e101	---	43	e643	e402	269	1,730	191	426
30	66	67	69	e189	---	42	e445	e328	293	1,130	252	876
31	64	---	e101	372	---	e44	---	1,280	---	1,960	163	---
Total	6,592	2,755	3,212	3,384	6,085	2,279	26,537	22,106	93,489	26,102	28,097	5,514
Mean	213	91.8	104	109	217	73.5	885	713	3,116	842	906	184
Max	1,810	429	257	372	975	207	4,860	3,500	15,900	4,700	3,360	876
Min	64	57	67	69	56	42	43	166	269	125	163	100
Ac-ft	13,080	5,460	6,370	6,710	12,070	4,520	52,640	43,850	185,400	51,770	55,730	10,940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	338	257	257	281	379	524	629	722	1,103	718	618	330
Max	744	947	706	639	942	1,379	2,248	2,411	3,736	4,308	3,492	912
(WY)	(2010)	(2005)	(2008)	(2005)	(2008)	(2008)	(2008)	(2007)	(2007)	(2007)	(2007)	(2007)
Min	121	91.8	104	109	101	73.5	140	164	150	91.2	90.2	97.6
(WY)	(2007)	(2013)	(2013)	(2013)	(2006)	(2013)	(2006)	(2006)	(2011)	(2011)	(2011)	(2011)

07241800 NORTH CANADIAN RIVER AT SHAWNEE, OK—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2001 - 2013	
Annual total	81,339		226,152			
Annual mean	222		620		510	
Highest annual mean					1,385	2007
Lowest annual mean					147	2006
Highest daily mean	4,680	Mar 20	[a]15,900	Jun 3	16,600	Aug 24, 2007
Lowest daily mean	[a]30	Aug 5	[a]42	Mar 27[b]	30	Aug 5, 2012
Annual seven-day minimum	32	Aug 3	43	Mar 26	32	Aug 3, 2012
Maximum peak flow			[c]23,500	Jun 3	[c]23,500	Jun 3, 2013
Maximum peak stage			23.90	Jun 3	23.90	Jun 3, 2013
Annual runoff (ac-ft)	161,300		448,600		369,500	
10 percent exceeds	402		1,490		989	
50 percent exceeds	112		163		212	
90 percent exceeds	63		68		89	

[a] Estimated.
[b] Also Mar. 28, 30.
[c] Affected by backwater.