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.--13,730 mi^2 of which 4,899 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 2001 to current year.

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

REMARKS.-- Records good. 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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	163	170	137	133	122	91	99	723	108	79	53	103
2	167	229	137	134	121	92	143	332	349	76	51	91
3	491	198	137	128	127	90	173	215	342	70	54	89
4	552	159	140	132	121	89	253	335	206	71	65	89
5	482	143	132	129	110	89	147	200	132	72	61	105
6	251	136	140	121	101	89	124	177	109	67	69	177
7	172	125	140	120	100	87	114	211	93	102	66	193
8	196	128	e130	120	118	91	114	380	96	83	53	102
9	415	130	e115	118	117	95	109	199	87	69	49	81
10	630	129	e145	114	117	92	103	175	85	70	43	68
11	271	135	190	118	116	98	99	169	80	114	44	66
12	396	141	160	124	98	105	98	205	80	449	44	64
13	458	139	150	125	95	92	99	183	78	359	44	70
14	332	134	148	107	95	88	92	134	78	198	44	67
15	276	134	131	108	97	85	91	118	68	175	47	64
16	257	135	128	117	93	86	94	109	65	132	62	61
17	244	135	142	117	82	77	90	108	136	97	163	82
18	233	158	142	115	86	191	86	107	1,010	84	141	889
19	215	142	141	128	84	174	80	100	513	78	93	620
20	177	140	161	177	83	475	72	91	233	73	76	257
21	148	138	164	169	86	460	86	85	163	68	108	169
22	164	138	161	167	91	284	80	82	138	64	297	141
23	182	142	156	168	91	361	79	80	173	62	155	136
24	174	138	149	169	90	218	78	79	144	62	106	136
25	174	138	143	173	100	187	76	80	206	60	78	106
26	178	133	138	132	96	161	76	78	161	59	72	94
27	157	136	134	108	94	146	71	70	113	57	119	e86
28	148	135	133	115	92	128	72	63	92	55	157	e79
29	160	135	134	108	---	120	174	64	86	55	408	e90
30	159	142	137	113	---	112	1,140	63	80	64	175	e77
31	169	---	135	124	---	112	---	76	---	60	122	---
Total	8,191	4,315	4,430	4,031	2,823	4,665	4,212	5,091	5,304	3,184	3,119	4,452
Mean	264	144	143	130	101	150	140	164	177	103	101	148
Max	630	229	190	177	127	475	1,140	723	1,010	449	408	889
Min	148	125	115	107	82	77	71	63	65	55	43	61
Ac-ft	16,250	8,560	8,790	8,000	5,600	9,250	8,350	10,100	10,520	6,320	6,190	8,830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	297	323	252	314	358	565	446	349	545	293	215	300
Max	398	947	404	639	706	1,044	787	987	1,010	524	477	784
(WY)	(2002)	(2005)	(2003)	(2005)	(2005)	(2001)	(2001)	(2001)	(2001)	(2004)	(2004)	(2001)
Min	221	142	143	130	101	150	140	164	177	103	101	148
(WY)	(2004)	(2004)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)

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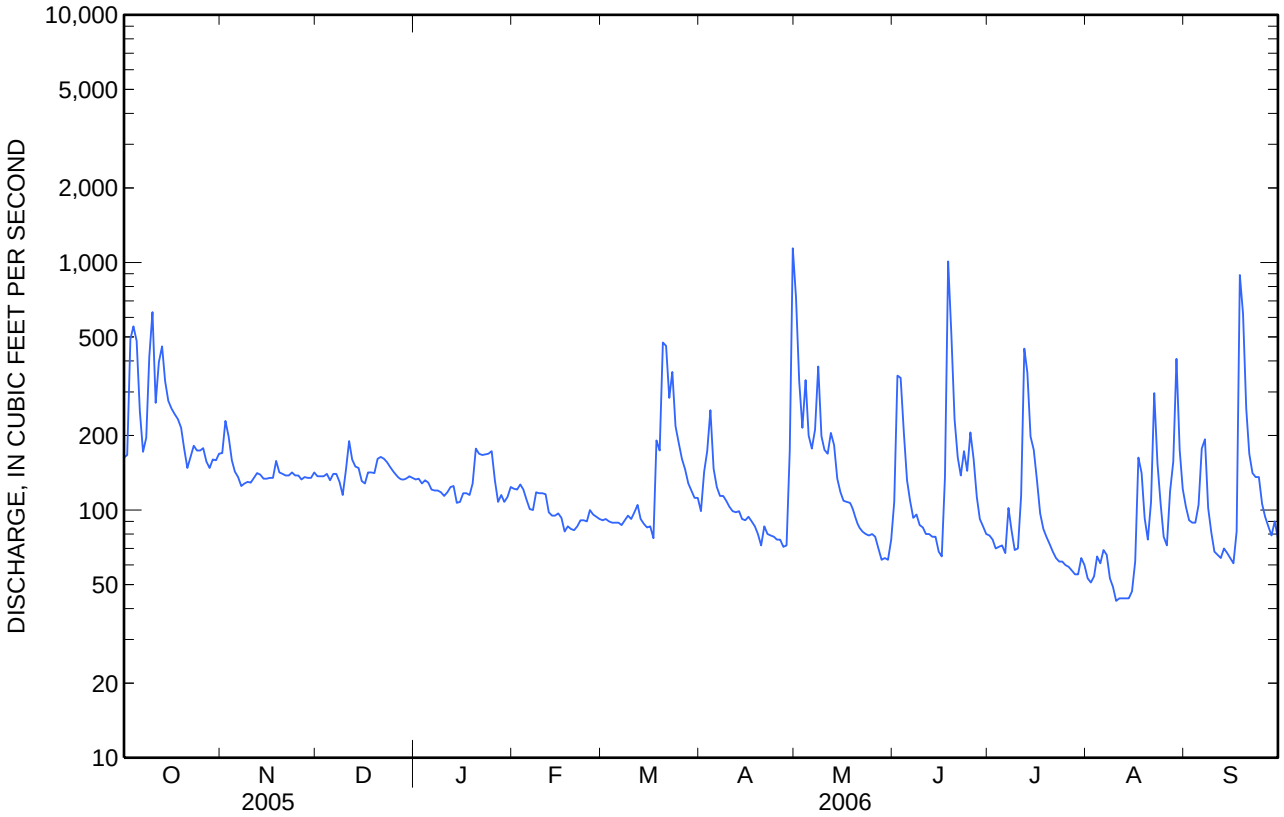
SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 2001 - 2006	
Annual total	147,436		53,817			
Annual mean	404		147		314	
Highest annual mean					491	2005
Lowest annual mean					147	2006
Highest daily mean	2,970	Jun 18	1,140	Apr 30	6,740	May 31, 2001
Lowest daily mean	89	Sep 11	43	Aug 10	43	Aug 10, 2006
Annual seven-day minimum	114	Jul 30	45	Aug 9	45	Aug 9, 2006
Maximum peak flow			1,790	Apr 30	8,130	May 30, 2001
Maximum peak stage			12.26	Apr 30	17.66	May 30, 2001
Annual runoff (ac-ft)	292,400		106,700		227,500	
10 percent exceeds	779		231		627	
50 percent exceeds	266		120		197	
90 percent exceeds	132		68		98