Water-Data Report 2008

07307010 OTTER CREEK NEAR SNYDER, OK

North Fork Red Basin
Lower North Fork Red Subbasin

LOCATION.--Lat 34°38′16″, long 98°59′54″ referenced to North American Datum of 1927, in NW ¼ sec.21, T.2 N., R.17 W., Kiowa County, OK, Hydrologic Unit 11120303, on downstream right abutment of bridge on State Highway 62, 1.5 miles downstream from confluence of West and East Otter Creeks,3.5 miles southwest of Snyder and at mile 18.0.

DRAINAGE AREA.--217 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 2000 to September 2008. (discontinued) September 1984 to June 2000 operated as high flow site, records available in district office.

GAGE.--Water-stage recorder. Datum of gage is 1,310.00 ft above NGVD of 1929.

REMARKS.--Records poor. Flow partially regulated by Tom Steed Reservoir (07305400), 8 mi upstream on West Otter Creek. U.S. Army Corps of Engineers' satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 5, 1996 reached a stage of 15.22 ft.

07307010 OTTER CREEK NEAR SNYDER, OK—Continued

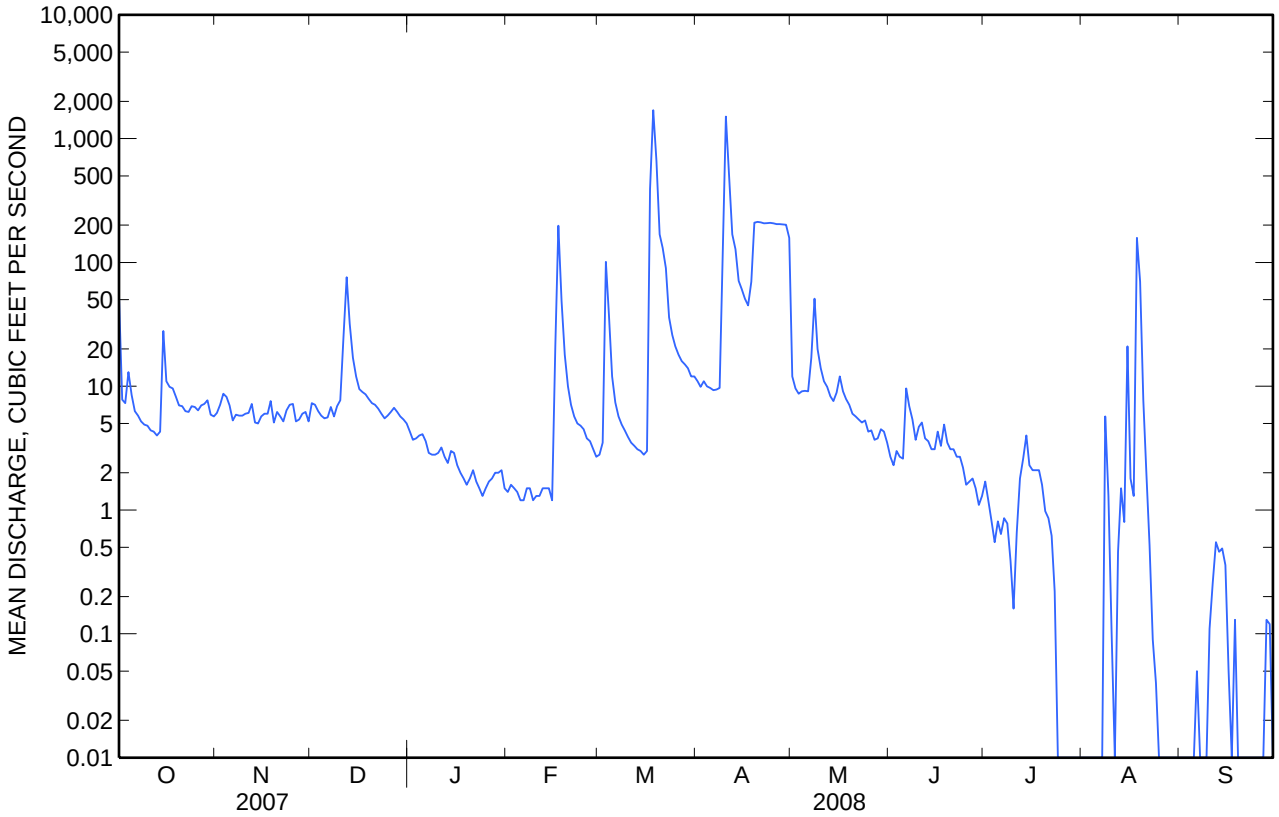
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	54	6.1	7.3	e4.3	e1.4	2.8	11	12	2.7	1.7	0.01	0.00
2	7.8	7.1	7.1	e3.7	1.6	3.5	9.9	9.6	2.3	1.2	0.01	0.00
3	7.3	8.7	6.3	e3.8	1.5	101	11	8.7	3.0	0.82	0.01	0.00
4	13	8.2	5.8	e4.0	1.4	38	10	9.1	2.7	0.55	0.01	0.00
5	8.5	7.0	5.5	4.1	1.2	12	9.7	9.2	2.6	0.81	0.01	0.00
6	6.3	5.3	5.6	3.6	1.2	7.4	9.3	9.1	9.6	0.64	0.01	0.05
7	5.8	5.9	6.8	2.9	1.5	5.7	9.4	17	6.9	0.86	0.00	0.01
8	5.2	5.8	5.7	2.8	1.5	4.9	9.7	51	5.4	0.78	5.7	0.00
9	4.9	5.8	6.9	2.8	1.2	4.4	129	20	3.7	0.39	1.3	0.00
10	4.8	6.0	7.7	2.9	1.3	3.9	1,510	14	4.7	0.16	0.10	0.11
11	4.4	6.1	25	3.2	1.3	3.5	503	11	5.1	0.66	0.00	0.26
12	4.3	7.2	76	2.7	1.5	3.3	169	9.9	3.8	1.8	0.46	0.55
13	4.0	5.1	32	2.4	1.5	3.1	128	8.3	3.6	2.6	1.5	0.46
14	4.3	5.0	17	3.0	1.5	3.0	71	7.6	3.1	4.0	0.80	0.49
15	28	5.7	12	2.9	1.2	2.8	61	8.9	3.1	2.3	21	0.36
16	11	6.0	e9.5	2.3	21	3.0	51	12	4.3	2.1	1.8	0.05
17	9.9	6.0	e9.0	e2.0	198	391	45	9.1	3.3	2.1	1.3	0.00
18	9.6	7.6	8.6	e1.8	49	1,700	70	7.9	4.9	2.1	158	0.13
19	8.2	5.1	7.9	e1.6	18	663	210	7.1	3.5	1.6	70	0.00
20	7.0	6.2	7.3	e1.8	10	169	213	6.0	3.1	0.98	7.7	0.00
21	6.9	5.7	7.1	e2.1	7.1	131	211	5.7	3.1	0.86	2.0	0.00
22	6.3	5.2	6.6	e1.7	5.7	90	207	5.4	2.7	0.62	0.52	0.01
23	6.2	6.4	e6.0	e1.5	5.0	36	208	5.1	2.7	0.22	0.09	0.00
24	6.9	7.1	e5.5	e1.3	4.8	26	209	5.3	2.2	0.01	0.04	0.00
25	6.8	7.2	e5.8	e1.5	4.5	21	207	4.3	1.6	0.01	0.00	0.00
26	6.4	5.2	6.2	e1.7	3.8	18	204	4.4	1.7	0.01	0.00	0.00
27	7.0	5.4	6.7	1.8	3.6	16	204	3.7	1.8	0.01	0.00	0.00
28	7.2	6.0	e6.2	2.0	3.1	15	203	3.8	1.5	0.01	0.00	0.13
29	7.7	6.2	e5.7	2.0	2.7	14	202	4.5	1.1	0.00	0.00	0.12
30	5.9	5.2	e5.4	2.1	---	12	158	4.3	1.3	0.00	0.00	0.00
31	5.7	---	e5.0	1.5	---	12	---	3.5	---	0.01	0.00	---
Total	281.3	185.5	335.2	77.8	357.1	3,516.3	5,253.0	297.5	101.1	29.91	272.37	2.73
Mean	9.07	6.18	10.8	2.51	12.3	113	175	9.60	3.37	0.96	8.79	0.09
Max	54	8.7	76	4.3	198	1,700	1,510	51	9.6	4.0	158	0.55
Min	4.0	5.0	5.0	1.3	1.2	2.8	9.3	3.5	1.1	0.00	0.00	0.00
Ac-ft	558	368	665	154	708	6,970	10,420	590	201	59	540	5.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	43.5	14.1	5.79	7.32	9.07	23.7	26.0	41.4	77.8	30.0	16.6	13.5
Max	288	69.7	13.6	44.7	48.2	113	175	238	493	244	130	75.4
(WY)	(2001)	(2005)	(2001)	(2001)	(2001)	(2008)	(2008)	(2001)	(2007)	(2007)	(2007)	(2007)
Min	0.00	0.00	0.00	0.14	0.57	0.46	0.34	0.21	0.45	0.36	0.00	0.00
(WY)	(2004)	(2004)	(2006)	(2004)	(2006)	(2006)	(2006)	(2004)	(2004)	(2005)	(2000)	(2002)

07307010 OTTER CREEK NEAR SNYDER, OK—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2000 - 2008	
Annual total	32,506.51		10,709.81			
Annual mean	89.1		29.3		26.4	
Highest annual mean					89.8	2007
Lowest annual mean					1.93	2006
Highest daily mean	3,720	Jun 29	1,700	Mar 18	3,720	Jun 29, 2007
Lowest daily mean	0.81	Jan 11	0.00	At times	0.00	At times
Annual seven-day minimum	0.97	Jan 5	0.00	Aug 25	0.00	Aug 2, 2000
Maximum peak flow			1,970	Apr 10	5,240	Jun 29, 2007
Maximum peak stage			13.54	Apr 10	14.73	Jun 29, 2007
Annual runoff (ac-ft)	64,480		21,240		19,100	
10 percent exceeds	99		40		24	
50 percent exceeds	6.8		4.6		1.8	
90 percent exceeds	2.8		0.01		0.00