Water-Data Report 2013

07185095 TAR CREEK AT 22ND STREET BRIDGE AT MIAMI, OK

Neosho Basin
Lake O' Cherokees Subbasin

LOCATION.--Lat 36°54′00″, long 94°52′05″ referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.19, T.28 N., R.23 E., Ottawa County, OK, Hydrologic Unit 11070206, near downstream left abutment of 22nd Street bridge in Miami, 0.5 mi east of intersection of Main and 22nd Street, 0.8 mi upstream from unnamed tributary, 1.7 mi downstream of Garrett Creek, and at mile 3.8.

DRAINAGE AREA.--44.7 mi^2, 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.--January 1984 to September 1993, May 2004 to current year.

GAGE.--Water-stage recorder. Datum of gage is 762.23 ft above NGVD of 1929.

REMARKS.--Records fair. U.S. Geological Survey satellite telemeter at station.

REVISIONS.--WDR 2012: Drainage area.

07185095 TAR CREEK AT 22ND STREET BRIDGE AT MIAMI, OK—Continued

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

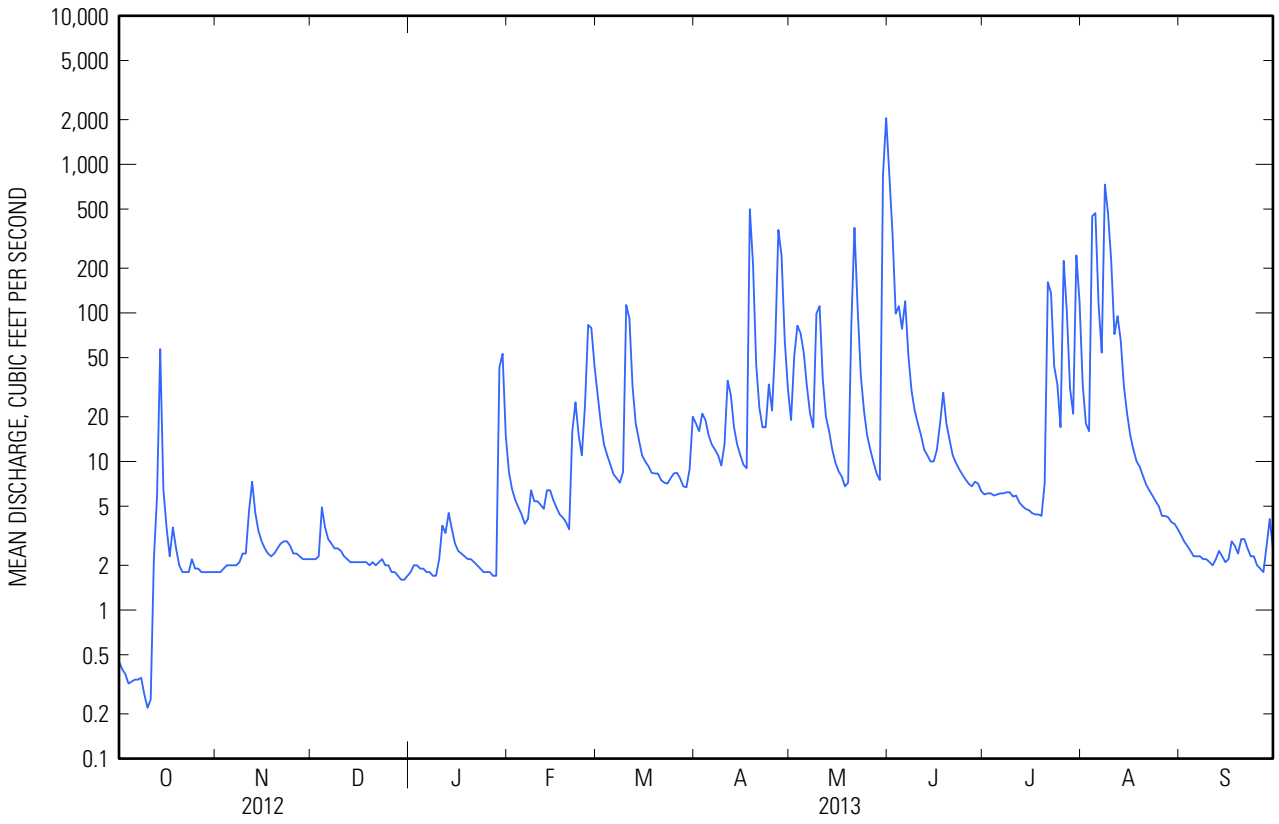
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.45	1.8	2.2	1.8	8.5	28	18	19	848	6.0	33	3.2
2	0.40	1.8	2.2	2.0	6.5	18	16	51	345	6.1	18	2.9
3	0.37	1.9	2.3	2.0	5.5	13	21	82	99	6.1	16	2.7
4	0.32	2.0	4.9	1.9	4.9	11	19	73	111	5.9	448	2.5
5	0.33	2.0	3.6	1.9	4.4	9.5	15	54	78	6.0	470	2.3
6	0.34	2.0	3.0	1.8	3.8	8.2	13	32	120	6.1	115	2.3
7	0.34	2.0	2.8	1.8	4.1	7.7	12	21	52	6.1	54	2.3
8	0.35	2.1	2.6	1.7	6.4	7.2	11	17	30	6.2	731	2.2
9	0.27	2.4	2.6	1.7	5.4	8.5	9.4	99	22	6.2	465	2.2
10	0.22	2.4	2.5	2.2	5.4	113	13	111	18	5.8	222	2.1
11	0.25	4.6	2.3	3.7	5.1	92	35	36	15	5.9	72	2.0
12	2.2	7.3	2.2	3.3	4.8	32	28	20	12	5.3	95	2.2
13	5.8	4.5	2.1	4.5	6.4	18	17	16	11	5.0	65	2.5
14	57	3.4	2.1	3.5	6.4	14	13	12	10	4.8	32	2.3
15	6.5	2.9	2.1	2.8	5.5	11	11	9.8	10	4.7	21	2.1
16	3.6	2.6	2.1	2.5	4.9	10	9.5	8.6	12	4.5	15	2.2
17	2.3	2.4	2.1	2.4	4.4	9.3	9.0	7.9	18	4.4	12	2.9
18	3.6	2.3	2.1	2.3	4.2	8.4	499	6.8	29	4.4	10	2.7
19	2.6	2.4	2.0	2.2	3.9	8.3	212	7.2	18	4.3	9.2	2.4
20	2.0	2.6	2.1	2.2	3.5	8.3	45	81	14	7.1	8.0	3.0
21	1.8	2.8	2.0	2.1	16	7.5	23	374	11	161	7.0	3.0
22	1.8	2.9	2.1	2.0	25	7.2	17	108	9.8	136	6.4	2.6
23	1.8	2.9	2.2	1.9	15	7.1	17	38	8.9	44	5.9	2.3
24	2.2	2.7	2.0	1.8	11	7.7	33	22	8.2	33	5.4	2.3
25	1.9	2.4	2.0	1.8	24	8.3	22	15	7.6	17	5.0	2.0
26	1.9	2.4	1.8	1.8	83	8.4	61	12	7.1	224	4.3	1.9
27	1.8	2.3	1.8	1.7	79	7.7	362	9.9	6.8	101	4.3	1.8
28	1.8	2.2	1.7	1.7	44	6.8	243	8.3	7.3	31	4.2	2.7
29	1.8	2.2	1.6	43	---	6.7	66	7.5	7.1	21	3.9	4.1
30	1.8	2.2	1.6	53	---	8.9	31	847	6.3	244	3.8	2.6
31	1.8	---	1.7	15	---	20	---	2,050	---	119	3.5	---
Total	109.64	80.4	70.4	174.0	401.0	531.7	1,900.9	4,256.0	1,952.1	1,241.9	2,964.9	74.3
Mean	3.54	2.68	2.27	5.61	14.3	17.2	63.4	137	65.1	40.1	95.6	2.48
Max	57	7.3	4.9	53	83	113	499	2,050	848	244	731	4.1
Min	0.22	1.8	1.6	1.7	3.5	6.7	9.0	6.8	6.3	4.3	3.5	1.8
Ac-ft	217	159	140	345	795	1,050	3,770	8,440	3,870	2,460	5,880	147

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	36.1	68.5	54.4	38.7	60.6	87.6	80.2	116	60.5	31.8	16.2	57.7
Max	241	373	299	119	239	284	308	292	208	123	95.6	509
(WY)	(1987)	(1986)	(1993)	(2005)	(1985)	(1990)	(2008)	(1993)	(2007)	(1993)	(2013)	(1993)
Min	0.46	1.52	0.95	1.13	0.69	1.22	16.1	4.13	1.65	0.76	0.48	1.43
(WY)	(2007)	(2006)	(2006)	(2006)	(2006)	(2006)	(1989)	(1988)	(2012)	(2012)	(2012)	(2012)

07185095 TAR CREEK AT 22ND STREET BRIDGE AT MIAMI, OK—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1985 - 2013	
Annual total	9,751.60		13,757.24			
Annual mean	26.6		37.7		59.0	
Highest annual mean					167	1993
Lowest annual mean					13.4	2006
Highest daily mean	1,810	Mar 20	2,050	May 31	8,200	Sep 25, 1993
Lowest daily mean	0.00	Several days	0.22	Oct 10	[a]0.00	At times
Annual seven-day minimum	0.00	Aug 19	0.30	Oct 5	0.00	Aug 19, 2012
Maximum peak flow			3,060	May 31	12,400	Sep 25, 1993
Maximum peak stage			13.15	May 31	[b]14.70	Sep 25, 1993
Annual runoff (ac-ft)	19,340		27,290		42,710	
10 percent exceeds	18		72		106	
50 percent exceeds	2.4		6.0		9.1	
90 percent exceeds	0.42		1.8		1.8	

[a] Minimum daily discharge for period of record, 0.07 ft³/s, Aug. 15, 1984.
[b] From floodmark.