Water-Data Report 2013

08052780 Hickory Creek at Denton, TX

Upper Trinity Basin
Elm Fork Trinity Subbasin

LOCATION.--Lat 33°09′06″, long 97°08′30″ referenced to North American Datum of 1927, Denton County, TX, Hydrologic Unit 12030103, (determined from USGS topographic map, Denton West Quadrangle, 1960 edition photorevised 1968 and 1973, scale 1:24,000), on left bank 10 ft downstream from downstream side of bridge on Farm Road 1830, 0.4 mi downstream from Graveyard Branch, 1.2 mi downstream from Roark Branch, 1.4 mi upstream from Atchison, Topeka and Santa Fe Railroad Co. bridge and 4.4 mi south of the Denton County Courthouse in Denton.

DRAINAGE AREA.--129 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1985 to Sept. 1987, July 2008 to current year.

PERIOD OF RECORD, Water-quality.--
CHEMICAL DATA: Mar. 1985 to June 1987.

REVISED RECORDS.--WDR-TX-87-1: 1986 (M).

GAGE.--Water-stage recorder. Datum of gage is 530.00 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically. Since installation of gage, at least 10% of contributing drainage area has been regulated. No known diversions. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum known stage, 29.54 ft, Oct. 30, 1974, from information by State Department of Highways and Public Transportation (TxDOT). Historic peaks from nearby stations indicate additional extremes probably occurred in May 1908 and Oct. 1981.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 08052780, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/08052780.2013.pdf

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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	0.00	0.00	0.00	5.1	1.1	0.37	4.2	0.20	0.08	0.00	0.00	0.00
2	0.00	0.00	0.00	1.8	0.59	0.27	2.2	0.22	0.03	0.00	0.00	0.00
3	0.00	0.00	0.00	0.64	0.52	0.25	45	0.16	0.01	0.00	0.00	0.00
4	0.00	0.00	0.00	0.28	0.43	0.25	90	0.13	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.18	0.38	0.24	18	0.09	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.15	0.28	0.19	6.6	0.08	24	0.00	0.00	0.00
7	0.00	0.00	0.00	0.11	0.26	0.14	4.2	0.06	5.0	0.00	0.00	0.00
8	0.00	0.00	0.00	43	0.27	0.18	2.9	0.05	0.62	0.00	0.00	0.00
9	0.00	0.00	0.00	398	0.25	61	2.1	0.06	98	0.00	0.00	0.00
10	0.00	0.00	0.00	183	201	236	3.5	0.06	21	0.00	0.00	0.00
11	0.00	0.00	0.00	40	28	24	3.2	0.08	3.9	0.00	0.00	0.00
12	0.00	0.00	0.00	12	20	7.0	2.7	0.03	1.1	0.00	0.00	0.00
13	0.00	0.00	0.00	5.2	7.4	3.8	2.0	0.03	0.30	0.00	0.00	0.00
14	17	0.00	0.00	2.8	4.7	2.5	1.1	0.02	0.08	0.00	0.00	0.00
15	1.0	0.00	0.00	2.0	4.0	1.6	0.79	0.98	0.03	0.00	0.00	0.00
16	0.05	0.00	0.00	1.6	3.0	0.98	0.52	72	0.02	5.0	0.00	0.00
17	0.02	0.00	0.00	1.3	1.7	0.74	0.46	3.2	2.6	2.5	0.00	0.00
18	0.02	0.00	0.00	0.84	1.2	0.72	46	2.0	148	0.31	0.00	0.00
19	0.01	0.00	0.00	0.83	1.1	0.75	5.9	1.0	34	0.01	0.00	0.00
20	0.01	0.00	0.00	0.76	2.7	0.48	3.8	0.53	7.3	0.00	0.00	4.0
21	0.01	0.00	0.00	0.55	9.4	0.44	1.9	4.5	2.4	0.00	0.00	1.9
22	0.01	0.00	0.00	0.87	3.5	0.46	1.2	3.6	0.75	0.00	0.00	0.02
23	0.01	0.00	0.00	0.88	2.2	1.4	0.75	0.61	0.26	0.00	0.00	0.00
24	0.01	0.00	0.00	0.86	1.4	1.7	0.59	0.21	0.07	0.00	0.00	0.00
25	0.01	0.00	48	0.99	1.0	0.53	0.39	2.2	0.01	0.00	0.00	0.00
26	0.00	0.00	8.0	0.63	1.0	0.28	0.37	1.0	0.00	0.00	0.00	0.00
27	0.00	0.00	2.1	0.53	0.65	0.25	0.46	1.2	0.00	0.00	0.00	0.00
28	0.00	0.00	1.6	0.75	0.41	0.31	0.27	0.61	0.00	0.00	0.00	12
29	0.00	0.00	1.5	1.5	---	0.21	0.24	0.27	0.00	0.00	0.00	3.1
30	0.00	0.00	1.6	12	---	73	0.21	0.74	0.00	0.00	0.00	0.09
31	0.00	---	6.9	3.0	---	9.4	---	0.38	---	0.00	0.00	---
Total	18.16	0.00	69.70	722.15	298.44	429.44	251.55	96.30	349.56	7.82	0.00	21.11
Mean	0.59	0.00	2.25	23.3	10.7	13.9	8.38	3.11	11.7	0.25	0.00	0.70
Max	17	0.00	48	398	201	236	90	72	148	5.0	0.00	12
Min	0.00	0.00	0.00	0.11	0.25	0.14	0.21	0.02	0.00	0.00	0.00	0.00
Ac-ft	36	0.00	138	1,430	592	852	499	191	693	16	0.00	42

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

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	86.7	10.5	20.6	82.7	132	78.3	27.2	125	50.1	7.23	3.88	58.4
Max	453	41.6	46.1	320	291	269	87.2	373	240	36.3	28.3	295
(WY)	(2010)	(1987)	(2012)	(2012)	(1987)	(2012)	(2010)	(1986)	(1986)	(1987)	(2008)	(2010)
Min	0.59	0.00	2.25	2.54	5.81	5.07	8.38	3.11	1.05	0.01	0.00	0.00
(WY)	(2013)	(2013)	(2013)	(2009)	(2009)	(2011)	(2013)	(2013)	(2010)	(2011)	(2011)	(2011)

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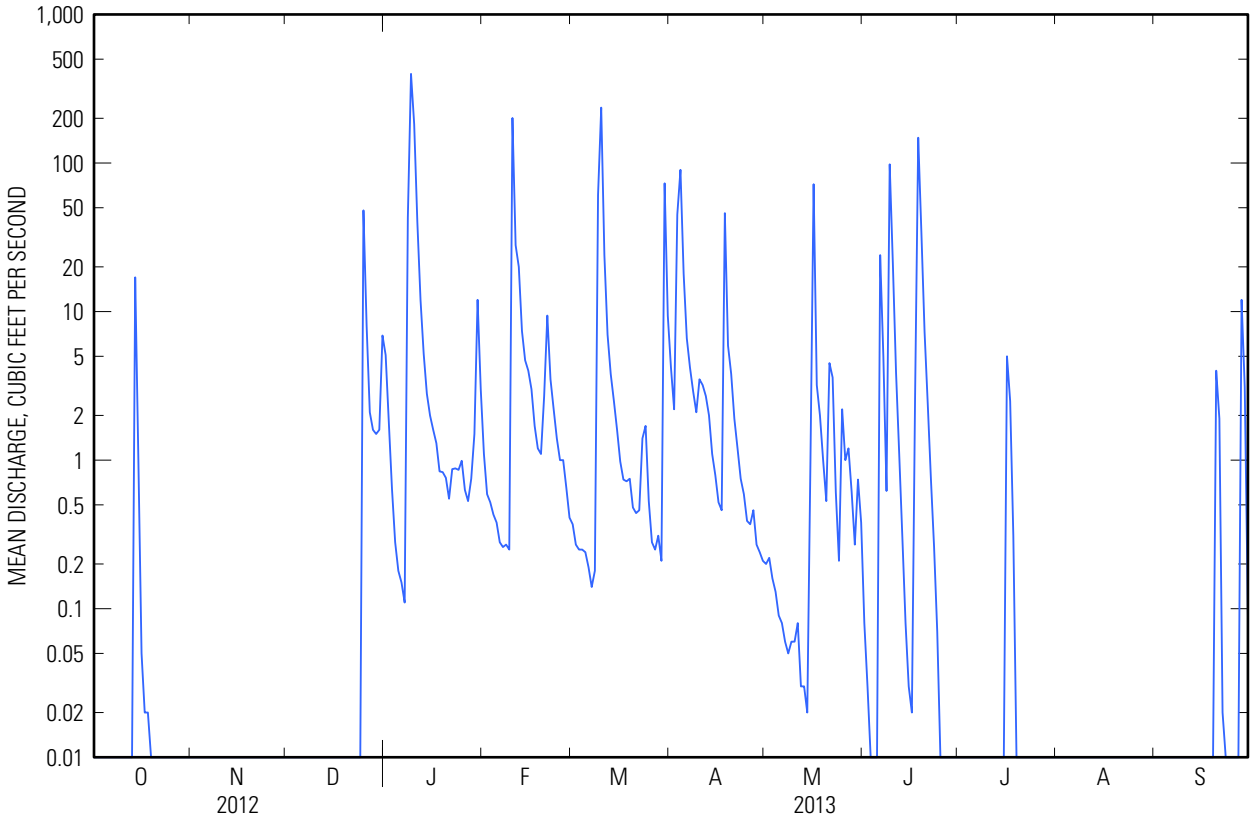
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1985 - 2013[h]	
Annual total	21,387.27		2,264.23			
Annual mean	58.4		6.20		57.7	
Highest annual mean					119	2010
Lowest annual mean					6.20	2013
Highest daily mean	6,260	Jan 25	398	Jan 9	6,460	Sep 8, 2010
Lowest daily mean	0.00	Jul 22	0.00	Oct 1	0.00	Aug 8, 1985
Annual seven-day minimum	0.00	Jul 22	0.00	Oct 1	0.00	Aug 8, 1985
Maximum peak flow			688	Feb 10	15,000	Sep 8, 2010
Maximum peak stage			7.24	Feb 10	23.34	Sep 8, 2010
Annual runoff (ac-ft)	42,420		4,490		41,820	
10 percent exceeds	45		5.1		69	
50 percent exceeds	0.18		0.05		3.0	
90 percent exceeds	0.00		0.00		0.00	

[h] See Period of Record paragraph.