



Water-Data Report 2010

08058900 East Fork Trinity River at McKinney, TX

Upper Trinity Basin
East Fork Trinity Subbasin

LOCATION.--Lat 33°14'38", long 96°36'31" referenced to North American Datum of 1927, Collin County, TX, Hydrologic Unit 12030106, at downstream side of highway embankment near left end of main channel bridge on State Highway 5, 750 ft downstream from Honey Creek, 1.2 mi upstream from Southern Pacific Railway Co. bridge, 1.7 mi upstream from Clemons Creek, 3.3 mi north of McKinney, 26.1 mi upstream from Lavon Dam, and 86.5 mi upstream from mouth.

DRAINAGE AREA.--164 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1975 to Sept. 2010 (discontinued).

PERIOD OF RECORD, Water-Quality--

CHEMICAL DATA: Oct. 1980 to Sept. 1982, Nov. 1985 to July 1987, Oct. 1992 to Aug. 1995, June 2001, July 2002, May 2007.

BIOCHEMICAL DATA: Oct. 1980 to Aug. 1982, Nov. 1985 to July 1987.

BIOLOGICAL DATA: June 1993, Dec. 2002.

PESTICIDE DATA: Oct. 1992 to May 1994, June 2001, July 2002, May 2007.

RADIOCHEMICAL DATA: Jan. to July 1981, Oct. 1992, May 2007.

SEDIMENT DATA: Oct. 1992, Apr. 1993 to Aug. 1995, June 2001, July 2002.

GAGE.--Water-stage recorder. Datum of gage is 528.74 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. Small diversions for irrigation above the station are made at times. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1913, about 28 ft in Apr. 1942 (discharge not determined), from information by Texas Department of Transportation.

Water-Data Report 2010

08058900 East Fork Trinity River at McKinney, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.6	543	80	128	362	290	124	42	6.3	0.17	0.06	0.02
2	2.8	467	682	113	288	387	116	40	5.1	0.48	0.04	0.03
3	2.4	392	522	103	237	230	138	37	4.0	7.5	0.05	0.03
4	328	329	291	94	272	176	116	38	3.8	4.8	0.05	0.03
5	292	310	215	86	295	151	110	36	3.2	2.0	0.06	0.02
6	156	263	167	84	212	137	111	33	2.8	1.9	0.05	0.03
7	671	219	150	86	169	130	102	31	2.8	1.6	0.05	5.0
8	268	193	150	76	2,280	210	91	28	2.9	11	0.05	562
9	2,500	175	146	70	2,880	513	85	26	2.5	37	0.05	822
10	2,200	151	124	73	869	324	81	27	3.1	62	0.07	379
11	977	126	115	70	607	254	77	31	2.2	47	0.07	230
12	900	112	106	69	565	179	72	28	1.7	31	0.06	141
13	1,140	106	104	71	703	149	68	26	2.0	23	0.05	99
14	1,140	104	102	73	970	134	65	31	1.8	16	0.06	133
15	724	102	95	75	502	123	62	101	1.3	9.9	0.05	140
16	488	143	89	81	372	115	60	58	1.1	4.7	0.06	84
17	344	117	88	79	314	110	65	46	0.90	2.5	0.34	71
18	292	103	87	75	265	105	98	38	0.76	1.1	0.03	60
19	243	98	84	73	216	102	132	33	0.62	0.53	0.02	47
20	180	144	80	75	188	367	104	30	0.50	0.27	0.02	37
21	213	166	76	78	473	482	87	29	0.48	0.16	0.02	30
22	1,790	135	73	71	559	503	77	27	0.56	0.07	0.02	25
23	1,420	116	74	67	305	325	72	24	0.45	0.06	0.02	20
24	790	106	103	77	230	239	76	21	0.19	0.06	0.01	14
25	596	98	142	73	189	1,050	71	18	0.21	0.08	0.07	12
26	4,230	95	112	67	167	467	62	16	0.50	0.08	0.02	12
27	e3,140	92	98	65	156	296	55	16	1.6	0.12	0.01	9.6
28	e2,110	88	88	144	145	215	50	13	0.49	0.15	0.01	6.7
29	1,300	84	84	1,860	---	170	47	11	0.25	0.09	0.01	4.7
30	1,060	81	127	911	---	146	44	8.7	0.19	0.07	0.02	3.2
31	664	---	146	501	---	131	---	7.0	---	0.07	0.01	---
Total	30,162.8	5,258	4,600	5,568	14,790	8,210	2,518	950.7	54.30	265.46	1.51	2,947.36
Mean	973	175	148	180	528	265	83.9	30.7	1.81	8.56	0.05	98.2
Max	4,230	543	682	1,860	2,880	1,050	138	101	6.3	62	0.34	822
Min	1.6	81	73	65	145	102	44	7.0	0.19	0.06	0.01	0.02
Ac-ft	59,830	10,430	9,120	11,040	29,340	16,280	4,990	1,890	108	527	3.0	5,850

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	96.1	111	129	110	194	236	154	236	134	37.3	6.06	9.11
Max	1,022	1,120	1,160	805	987	837	804	1,704	1,039	643	92.7	98.2
(WY)	(1982)	(1995)	(1992)	(1998)	(2001)	(2008)	(1990)	(1982)	(2007)	(2007)	(2007)	(2010)
Min	0.00	0.00	0.00	0.00	1.37	2.30	1.94	1.98	0.00	0.00	0.00	0.00
(WY)	(1978)	(1978)	(1978)	(1978)	(1976)	(1976)	(2006)	(2004)	(2006)	(1984)	(1980)	(1977)

08058900 East Fork Trinity River at McKinney, TX—Continued**SUMMARY STATISTICS**

	Calendar Year 2009	Water Year 2010	Water Years 1976 - 2010	
Annual total	69,412.53	75,326.13		
Annual mean	190	206	121	
Highest annual mean			373	1982
Lowest annual mean			4.65	1980
Highest daily mean	4,230	Oct 26	26,800	May 13, 1982
Lowest daily mean	0.19	Jul 16	0.00	Aug 18, 1976
Annual seven-day minimum	0.37	Sep 3	0.00	Aug 18, 1976
Maximum peak flow		7,540	61,800	May 13, 1982
Maximum peak stage		19.55	22.17	May 13, 1982
Annual runoff (ac-ft)	137,700	149,400	87,430	
10 percent exceeds	546	502	241	
50 percent exceeds	16	78	13	
90 percent exceeds	0.69	0.07	0.00	

