

Water-Data Report 2008

**08065000 Trinity River near Oakwood, TX**

Lower Trinity Basin  
Lower Trinity-Tehuacana Subbasin

LOCATION.--Lat 31°38'54", long 95°47'21" referenced to North American Datum of 1927, Anderson County, TX, Hydrologic Unit 12030201, on left bank at downstream side of bridge on U.S. Highways 79 and 84, 1.5 mi upstream from Missouri Pacific Railroad Co. bridge, 6.0 mi northeast of Oakwood, and at mile 313.4.

DRAINAGE AREA.--12,833 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Oct. 1923 to Sept. 1924 (monthly discharge only), Oct. 1924 to current year. Records of Jan. 1905 to Sept. 1923, published in WSP 850 and 878, have been found unreliable and should not be used. Gage-height records collected in this vicinity since 1904 are contained in reports of the National Weather Service. Water-quality records: Sediment data: Dec. 1976 to Sept. 1981. Specific conductance: Dec. 1976 to Sept. 1981. Water temperature: Dec. 1976 to Sept. 1981. Suspended sediment data: Dec. 1976 to Sept. 1981.

REVISED RECORDS.--WSP 1442: 1934. WSP 1922: Drainage area. WDR TX-81-1: 1980 (M,m).

GAGE.--Water-stage recorder. Datum of gage is 175.06 ft above NGVD of 1929. Prior to July 1932, nonrecording gage at site 1.5 mi downstream at datum 1.06 ft lower. July 15, 1932, to Oct. 7, 1934, nonrecording gage at present site and datum. Satellite telemeter at station.

REMARKS.--Records good. Since installation of gage in water year 1924, at least 10% of contributing drainage area has been regulated. The Industrial Generating Co. at Fairfield makes a minor diversion from the river at a site about 34 mi upstream. The diversion to Fairfield Lake (capacity 50,600 acre-ft) is used to maintain the normal pool elevation for that lake.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in May 1890 reached a stage of 53 ft (discharge about 180,000 ft<sup>3</sup>/s) and was the highest since that date, from information in local newspapers. Flood of June 4, 1908, reached a stage of 52.2 ft, present site and datum, from information by the National Weather Service (discharge, about 164,000 ft<sup>3</sup>/s).

## 08065000 Trinity River near Oakwood, TX—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,820	1,200	1,690	1,860	1,350	1,400	25,100	19,100	3,380	1,030	709	962
2	4,510	1,160	1,390	1,490	1,330	1,310	21,500	18,300	2,030	969	726	965
3	4,280	1,140	1,280	1,350	1,270	1,490	19,400	17,000	1,570	1,140	851	948
4	4,340	1,110	1,210	1,290	1,240	1,890	18,100	16,100	1,380	1,030	826	882
5	4,430	1,090	1,180	1,240	1,240	3,870	17,200	15,300	1,290	915	846	879
6	5,240	1,060	1,180	1,210	1,250	8,290	16,700	13,900	1,220	854	863	899
7	5,210	1,040	1,140	1,190	1,270	10,300	16,900	11,500	1,170	821	773	861
8	4,570	1,040	1,090	1,230	1,580	11,800	17,200	10,000	1,140	813	747	826
9	3,860	1,050	1,110	1,260	1,780	14,000	17,400	9,610	1,110	772	734	913
10	3,470	1,030	1,100	1,320	1,510	15,400	17,000	8,520	1,090	757	722	891
11	3,420	1,010	1,110	1,410	1,290	16,400	15,700	6,430	1,070	792	724	880
12	3,690	1,000	1,260	1,290	1,280	17,000	14,800	4,570	1,040	835	853	1,150
13	3,270	997	1,650	1,200	1,300	17,500	15,300	3,710	1,360	832	827	2,630
14	2,570	994	2,330	1,170	1,480	17,600	16,000	3,570	1,620	804	796	2,980
15	2,230	995	3,830	1,140	2,510	17,400	16,600	6,780	1,280	832	832	2,250
16	2,030	1,000	4,220	1,130	2,410	15,900	16,200	11,500	1,070	920	820	2,160
17	3,270	994	4,700	1,130	2,550	13,200	13,500	14,200	1,010	840	840	2,680
18	7,570	977	5,670	1,130	5,440	11,200	10,300	15,700	1,020	967	2,410	2,230
19	10,100	1,000	4,220	1,140	8,220	11,300	8,900	15,600	1,040	1,420	3,420	1,600
20	9,150	1,010	2,620	1,130	8,760	13,600	10,700	12,500	1,150	1,260	2,410	1,280
21	5,240	963	1,930	1,100	6,600	16,000	12,600	8,070	1,440	974	2,100	1,110
22	3,080	950	1,660	1,070	3,900	17,800	13,400	5,510	1,570	843	4,000	999
23	2,250	992	1,560	1,110	2,540	19,600	12,000	4,070	1,880	791	6,020	924
24	1,830	1,030	1,710	1,120	2,090	22,000	9,660	3,790	1,530	759	5,120	884
25	2,990	1,160	1,700	1,130	1,880	26,200	10,100	3,630	1,160	746	3,030	888
26	3,360	1,200	1,500	1,210	1,720	34,800	13,300	2,240	1,020	727	1,780	887
27	2,450	1,810	1,360	1,210	1,570	41,100	15,300	1,590	965	732	1,410	881
28	1,870	4,470	1,370	1,490	1,450	40,900	16,600	1,680	929	730	1,280	856
29	1,580	4,240	1,810	1,690	1,430	38,100	17,800	3,040	1,230	714	1,150	814
30	1,370	2,580	2,100	1,520	---	34,200	18,800	5,430	1,330	692	1,060	808
31	1,240	---	2,290	1,400	---	29,800	---	5,550	---	686	994	---
<b>Total</b>	119,290	40,292	62,970	39,360	72,240	541,350	464,060	278,490	40,094	26,997	49,673	37,917
<b>Mean</b>	3,848	1,343	2,031	1,270	2,491	17,460	15,470	8,984	1,336	871	1,602	1,264
<b>Max</b>	10,100	4,470	5,670	1,860	8,760	41,100	25,100	19,100	3,380	1,420	6,020	2,980
<b>Min</b>	1,240	950	1,090	1,070	1,240	1,310	8,900	1,590	929	686	709	808
<b>Ac-ft</b>	236,600	79,920	124,900	78,070	143,300	1,074,000	920,500	552,400	79,530	53,550	98,530	75,210

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2008, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	2,440	3,593	5,117	5,282	6,344	7,855	7,791	11,010	7,719	3,160	1,456	1,530
<b>Max</b>	14,250	25,900	33,280	31,870	35,060	40,450	45,710	56,050	33,550	40,360	11,380	7,361
<b>(WY)</b>	(1974)	(1975)	(1992)	(1998)	(1932)	(1945)	(1945)	(1990)	(1957)	(2007)	(2007)	(1962)
<b>Min</b>	85.0	100	146	166	222	242	278	812	151	74.2	62.7	62.8
<b>(WY)</b>	(1925)	(1925)	(1926)	(1940)	(1925)	(1925)	(1925)	(1971)	(1925)	(1925)	(1925)	(1930)

08065000 Trinity River near Oakwood, TX—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1925 - 2008	
<b>Annual total</b>	3,951,542		1,772,733			
<b>Annual mean</b>	10,830		4,844		5,268	
<b>Highest annual mean</b>					15,240	1992
<b>Lowest annual mean</b>					657	1925
<b>Highest daily mean</b>	70,600	Jul 10	41,100	Mar 27	153,000	Apr 29, 1942
<b>Lowest daily mean</b>	950	Nov 22	686	Jul 31	28	Nov 1, 1924
<b>Annual seven-day minimum</b>	984	Nov 17	713	Jul 27	38	Aug 19, 1925
<b>Maximum peak flow</b>			41,900	Mar 27	153,000	Apr 29, 1942
<b>Maximum peak stage</b>			41.96	Mar 27	51.64	Apr 29, 1942
<b>Annual runoff (ac-ft)</b>	7,838,000		3,516,000		3,816,000	
<b>10 percent exceeds</b>	25,700		15,900		15,000	
<b>50 percent exceeds</b>	5,230		1,490		1,530	
<b>90 percent exceeds</b>	1,160		845		326	

