

**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.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Jan. 1965 to June 1965.

BIOCHEMICAL DATA: Jan. 1965 to June 1965.

SEDIMENT DATA: Dec. 1976 to May 1981.

PERIOD OF DAILY RECORD, Water-Quality.--

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 except those for estimated daily discharges, which are fair. 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. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

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).

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,770	994	928	3,810	1,240	1,700	939	1,190	1,460	934	654	537
2	2,010	955	952	3,480	1,340	1,520	922	1,020	1,270	876	e630	522
3	1,830	997	960	2,150	1,620	1,570	909	1,130	1,200	864	e628	523
4	1,730	1,120	945	1,520	2,310	1,440	987	2,450	1,120	820	e628	499
5	1,580	4,310	922	1,270	2,490	1,290	1,010	7,350	1,060	773	614	525
6	1,600	6,960	913	1,130	2,020	1,230	1,560	9,220	978	779	584	569
7	1,580	5,210	910	1,060	1,700	1,190	4,710	6,420	918	764	605	540
8	1,330	2,710	947	1,080	1,970	1,130	4,200	2,940	875	765	584	505
9	1,170	1,650	986	1,150	2,680	1,100	2,270	1,630	855	748	575	513
10	1,100	1,320	974	1,330	2,770	1,110	1,360	1,330	891	737	583	537
11	1,080	1,200	950	1,990	2,250	1,130	1,150	1,200	855	752	592	525
12	1,080	1,120	927	5,950	2,010	1,100	1,080	1,200	804	757	602	529
13	1,030	1,100	942	6,530	1,950	1,090	2,250	1,400	769	688	592	523
14	1,010	1,110	935	4,030	1,750	1,060	5,190	3,720	774	679	611	518
15	1,020	1,330	926	2,320	1,600	1,050	4,080	5,670	744	698	623	528
16	999	1,600	943	2,260	1,490	1,030	2,130	3,770	737	732	1,290	547
17	947	1,410	931	3,410	1,430	1,090	1,320	1,990	765	727	1,480	527
18	929	1,190	934	4,850	1,400	1,090	1,490	1,670	771	714	972	527
19	921	1,180	940	4,940	1,360	1,030	1,500	1,470	764	701	719	610
20	895	1,290	915	3,380	1,300	1,010	1,190	1,510	750	693	652	1,160
21	886	1,190	903	2,490	1,260	1,010	1,060	2,160	784	695	623	1,860
22	900	1,060	887	2,070	1,360	998	1,090	1,270	795	701	604	1,950
23	920	997	895	1,960	1,420	986	1,500	1,860	3,160	681	569	1,210
24	1,050	983	888	1,770	1,240	983	1,380	3,310	7,390	654	555	831
25	1,040	973	898	1,460	1,320	986	1,110	2,960	8,130	662	546	716
26	2,400	966	955	1,390	1,490	982	1,120	4,940	5,180	675	555	668
27	3,970	961	1,760	1,390	1,800	958	1,350	7,060	2,340	687	567	643
28	2,720	953	2,920	1,400	1,920	943	2,230	7,850	1,420	679	582	605
29	1,590	954	2,230	1,280	---	934	2,410	5,770	1,170	654	570	597
30	1,170	943	1,600	1,230	---	921	1,610	3,200	1,020	651	592	602
31	1,050	---	1,990	1,210	---	931	---	1,940	---	651	550	---
<b>Total</b>	44,307	48,736	34,706	75,290	48,490	34,592	55,107	100,600	49,749	22,591	20,531	20,946
<b>Mean</b>	1,429	1,625	1,120	2,429	1,732	1,116	1,837	3,245	1,658	729	662	698
<b>Max</b>	3,970	6,960	2,920	6,530	2,770	1,700	5,190	9,220	8,130	934	1,480	1,950
<b>Min</b>	886	943	887	1,060	1,240	921	909	1,020	737	651	546	499
<b>Ac-ft</b>	87,880	96,670	68,840	149,300	96,180	68,610	109,300	199,500	98,680	44,810	40,720	41,550

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	2,634	3,766	5,041	5,183	6,524	7,875	7,680	10,810	7,598	3,108	1,448	1,627
<b>Max</b>	21,690	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>	(2010)	(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)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1925 - 2011	
<b>Annual total</b>	2,685,378		555,645			
<b>Annual mean</b>	7,357		1,522		5,267	
<b>Highest annual mean</b>					15,240	1992
<b>Lowest annual mean</b>					657	1925
<b>Highest daily mean</b>	39,800	Feb 9	9,220	May 6	153,000	Apr 29, 1942
<b>Lowest daily mean</b>	886	Oct 21	499	Sep 4	28	Nov 1, 1924
<b>Annual seven-day minimum</b>	904	Dec 19	521	Sep 8	38	Aug 19, 1925
<b>Maximum peak flow</b>			9,480	May 6	153,000	Apr 29, 1942
<b>Maximum peak stage</b>			20.31	May 6	51.64	Apr 29, 1942
<b>Annual runoff (ac-ft)</b>	5,326,000		1,102,000		3,815,000	
<b>10 percent exceeds</b>	22,200		2,830		15,100	
<b>50 percent exceeds</b>	2,650		1,080		1,520	
<b>90 percent exceeds</b>	955		603		333	

