



Water-Data Report TX-2005

08045400 Lake Worth above Fort Worth, TX

Trinity River Basin

LOCATION.--Lat 32°47'21", long 97°24'58" referenced to North American Datum of 1927, Tarrant County, Hydrologic Unit 12030102, on top of Lake Worth Dam on West Fork Trinity River, 240 ft to right of right end of uncontrolled concrete spillway, 2.9 mi upstream from Farmer's Branch, 3.3 mi upstream from bridge on State Highway 183 crossing West Fork Trinity River, 5.3 mi northwest of Tarrant County Courthouse in Fort Worth, at mile 572.0.

DRAINAGE AREA.--2,064 mi².

WATER-STAGE RECORDS

PERIOD OF RECORD.--Oct. 1981 to current year. Water-quality records: Chemical data: Jan. 1970 to Sept. 1984.

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

REMARKS.--No estimated contents. Records good. The lake is formed by a rolled earthfill dam 3,200 ft long, with an uncontrolled concrete spillway 700 ft long near the center of the dam. Deliberate impoundment began in June 1914 and the dam was completed in Oct. 1914. There is a 48-in diameter pipe controlled by a 36-in valve, which may be used to make small releases through the dam. The dam is owned by the city of Fort Worth. Conservation pool storage is 38,130 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	606.3
Crest of concrete spillway.....	594.0
Lowest gated outlet (invert).....	584.25

COOPERATION.--Capacity Table 1-C was provided by U.S. Army Corps of Engineers, and put into effect Feb. 1968. Capacity Table 2 was provided by the Texas Water Development Board and put into effect Oct. 2003.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 56,040 acre-ft, May 3, 1990, elevation, 598.70 ft; minimum contents, 24,730 acre-ft, Sept. 9-10, 1985, elevation, 589.95 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 33,900 acre-ft, Nov 24, elevation, 594.12 ft; minimum contents, 26,690 acre-ft, May 23, 24, 25, Aug. 27, Sept. 1, 2, elevation, 592.87 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	30,330	31,570	32,500	30,880	31,460	30,810	31,730	30,440	31,110	30,300	30,780	29,800
2	30,590	31,580	32,380	30,910	31,570	30,740	31,550	30,410	31,050	30,340	30,760	29,820
3	30,570	31,480	32,180	31,040	31,470	30,610	31,420	30,400	30,990	30,340	30,710	29,940
4	31,030	31,270	32,040	31,020	31,390	30,580	31,320	30,590	30,910	30,310	30,690	30,020
5	31,240	31,090	31,980	31,040	31,280	30,550	31,320	30,820	30,850	30,370	30,750	30,160
6	31,050	30,950	31,980	30,910	31,370	30,510	31,280	30,840	30,760	30,440	30,840	30,260
7	30,900	30,820	31,950	30,760	31,360	30,440	31,110	30,790	30,670	30,720	30,850	30,360
8	30,760	30,660	31,770	30,680	31,290	30,280	30,920	30,720	30,530	30,950	30,910	30,420
9	30,660	30,440	31,680	30,670	31,250	30,360	30,720	30,690	30,370	30,900	30,930	30,490
10	30,720	30,300	31,550	30,620	31,070	30,320	30,680	30,630	30,370	30,870	30,920	30,470
11	30,660	30,180	31,310	30,570	30,980	30,290	30,780	30,430	30,450	30,790	30,840	30,520
12	30,500	30,130	31,190	30,530	31,000	30,280	30,540	30,280	30,480	30,740	30,760	30,590
13	30,330	30,180	31,040	30,630	31,080	30,340	30,530	30,230	30,550	30,700	30,620	30,610
14	30,320	30,260	30,850	30,490	30,950	30,220	30,510	30,730	30,580	30,610	30,520	30,620
15	30,250	30,440	30,650	30,580	30,880	30,140	30,520	30,790	30,540	30,600	30,440	30,620
16	30,200	30,520	30,660	30,590	30,830	30,260	30,510	30,750	30,500	30,640	30,440	30,630
17	30,220	31,520	30,640	30,610	30,690	30,300	30,490	30,650	30,460	30,590	30,350	30,610
18	30,260	32,500	30,610	30,630	30,590	30,410	30,530	30,620	30,400	30,520	30,280	30,540
19	30,170	32,520	30,610	30,740	30,540	30,510	30,570	30,560	30,370	30,540	30,190	30,530
20	30,170	32,450	30,590	30,810	30,540	30,620	30,630	30,460	30,350	30,570	30,130	30,490
21	30,200	32,490	30,550	30,820	30,460	30,810	30,700	30,290	30,300	30,620	30,080	30,470
22	30,250	32,990	30,700	30,830	30,340	30,770	30,640	30,080	30,240	30,670	30,030	30,430
23	30,360	33,470	30,730	30,710	30,460	30,560	30,430	29,830	30,210	30,680	29,990	30,440
24	30,350	33,490	30,720	30,670	30,550	30,470	30,280	29,780	30,230	30,690	29,910	30,480
25	30,510	33,170	30,750	30,690	30,510	30,500	30,300	29,840	30,240	30,670	29,860	30,420
26	30,590	33,100	30,780	30,720	30,480	30,790	30,490	29,930	30,280	30,660	29,830	30,360
27	30,630	33,110	30,790	30,750	30,800	31,460	30,450	30,000	30,280	30,820	29,830	30,330
28	30,550	32,740	30,850	30,910	30,890	31,690	30,480	30,190	30,310	30,910	29,880	30,360
29	30,530	32,840	30,970	30,920	---	31,680	30,550	30,490	30,350	30,870	29,890	30,320
30	30,580	32,780	30,990	30,980	---	31,790	30,480	30,640	30,320	30,830	29,870	30,290
31	30,840	---	30,960	31,430	---	31,720	---	30,740	---	30,810	29,830	---
Total	946,320	951,040	966,950	954,140	866,080	950,810	922,460	943,640	915,050	950,070	941,710	911,400
Mean	30,530	31,700	31,190	30,780	30,930	30,670	30,750	30,440	30,500	30,650	30,380	30,380
Max	31,240	33,490	32,500	31,430	31,570	31,790	31,730	30,840	31,110	30,950	30,930	30,630
Min	30,170	30,130	30,550	30,490	30,340	30,140	30,280	29,780	30,210	30,300	29,830	29,800

	Calendar Year 2004	Water Year 2005
Total	10,957,080	11,219,670
Mean	29,940	30,740
Max	46,690	33,490
Min	26,800	29,780

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