



Water-Data Report 2006

**08049200 Lake Arlington at Arlington, TX**

Upper Trinity Basin  
Lower West Fork Trinity Subbasin

LOCATION.--Lat 32°42'58", long 97°11'32" referenced to North American Datum of 1927, Tarrant County, TX, Hydrologic Unit 12030102, in pumphouse at right end of Arlington Dam on Village Creek near western boundary of Arlington, 1.5 mi upstream from the Texas and Pacific Railway Co. bridge, and 7.0 mi upstream from mouth.

DRAINAGE AREA.--143 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Mar. 1957 to current year. Water-quality records: Chemical data: Jan. 1964 to June 2002. Biochemical data: Jan. 1964 to June 2002.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Sept. 9, 1957, nonrecording gage at same site and datum. Satellite telemeter at station.

COOPERATION.--Capacity Table No. 3 was provided by the Texas Water Development Board and put into effect Oct. 1996.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 6,482 ft long. The service spillway is a 10-ft diameter uncontrolled circular drop inlet. The spillway is an 882-ft-wide cut through natural ground near the right end of dam. The dam was completed and storage began Mar. 31, 1957. The dam was built by the city of Arlington to impound water for municipal and industrial uses. Water is diverted from Cedar Creek Reservoir (station 08063010, conservation pool storage 637,050 acre-ft) into Lake Arlington. Water is pumped from the lake to a generating plant of Texas Electric Service Company. Conservation pool storage is 38,785 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	572.0
Crest of Spillway.....	559.7
Crest of drop inlet (top of conservation pool).....	550.0
Lowest gated outlet (invert).....	505.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 72,500 acre-ft, May 17, 1989, elevation, 562.42 ft; minimum contents since lake first filled in Apr. 1957, 16,210 acre-ft, Aug. 5,11-12, 1998, elevation, 536.51 ft; minimum elevation since lake first filled in Apr. 1957, 534.27 ft, Oct. 17, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 48,800 acre-ft, Mar. 20, elevation, 555.05 ft; minimum contents, 20,300 acre-ft, Nov. 24, Dec.4, elevation, 539.46 ft.

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**RESERVOIR STORAGE, ACRE FEET**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	25,470	22,410	20,450	22,000	24,660	31,470	38,570	36,480	34,720	31,750	27,680	22,760
2	25,400	22,460	20,440	22,010	24,790	31,540	38,450	36,340	34,680	31,800	27,400	22,750
3	25,290	22,470	20,410	22,010	24,920	31,620	38,300	36,330	34,580	31,820	26,990	22,770
4	25,210	22,460	20,350	22,030	25,080	31,720	38,150	36,350	34,450	31,970	26,670	23,220
5	25,010	22,400	20,370	22,030	25,220	31,820	38,000	37,050	34,260	32,220	26,370	23,910
6	24,770	22,330	20,390	22,080	25,320	31,890	37,890	37,720	33,970	32,500	26,090	24,080
7	24,690	22,270	20,400	22,140	25,390	31,900	37,810	38,040	33,760	32,560	25,910	24,160
8	24,580	22,210	20,440	22,140	25,480	31,930	37,610	38,110	33,540	32,500	25,720	24,230
9	24,470	22,180	20,530	22,110	25,560	31,990	37,450	38,090	33,340	32,430	25,540	24,190
10	24,300	22,110	20,610	22,070	25,640	32,040	37,280	38,030	33,080	32,330	25,260	24,120
11	24,230	21,980	20,640	22,060	25,730	32,010	37,200	37,940	32,850	32,240	24,950	23,990
12	24,190	21,890	20,710	22,070	25,820	32,000	37,090	37,840	32,620	32,130	24,630	23,970
13	24,070	21,740	20,780	22,070	25,930	31,950	36,930	37,680	32,420	31,970	24,390	23,960
14	23,930	21,540	20,850	22,140	25,990	31,880	36,780	37,500	32,220	31,790	23,990	23,880
15	23,790	21,380	20,910	22,160	26,040	31,860	36,590	37,280	32,040	31,600	23,720	23,790
16	23,630	21,260	20,950	22,180	26,100	31,840	36,380	37,070	31,820	31,430	23,550	23,720
17	23,430	21,180	21,020	22,190	26,130	31,820	36,180	36,870	31,760	31,250	23,290	23,780
18	23,210	21,120	21,100	22,180	26,250	32,240	36,050	36,670	32,500	31,010	23,090	24,070
19	22,980	21,000	21,160	22,210	26,380	37,810	35,840	36,540	32,650	30,810	22,890	24,100
20	22,790	20,870	21,210	22,230	26,520	47,170	36,260	36,390	32,530	30,510	22,730	24,090
21	22,680	20,750	21,310	22,200	26,610	43,210	36,570	36,230	32,570	30,200	22,530	24,070
22	22,610	20,590	21,390	22,330	26,770	41,200	36,690	36,090	32,510	29,970	22,190	24,040
23	22,520	20,440	21,450	22,430	26,880	40,270	36,690	36,000	32,450	29,730	22,070	24,000
24	22,520	20,340	21,530	22,340	27,080	39,810	36,620	35,880	32,470	29,500	22,090	23,990
25	22,450	20,350	21,620	22,370	29,410	39,500	36,520	35,730	32,480	29,300	22,050	23,950
26	22,400	20,420	21,740	22,450	30,960	39,280	36,460	35,560	32,360	29,100	21,910	23,920
27	22,280	20,500	21,840	22,550	31,220	39,090	36,380	35,410	32,230	28,900	21,950	23,880
28	22,160	20,440	21,860	23,540	31,350	38,950	36,260	35,290	32,150	28,700	22,310	23,780
29	22,100	20,410	21,910	24,300	---	38,850	36,460	35,180	32,000	28,460	22,650	23,730
30	22,020	20,450	21,950	24,440	---	38,770	36,530	35,020	31,860	28,240	22,760	23,660
31	22,180	---	21,980	24,560	---	38,670	---	34,840	---	27,960	22,760	---
<b>Mean</b>	23,590	21,400	21,040	22,440	26,540	35,360	37,000	36,630	32,900	30,860	24,070	23,820
<b>Max</b>	25,470	22,470	21,980	24,560	31,350	47,170	38,570	38,110	34,720	32,560	27,680	24,230
<b>Min</b>	22,020	20,340	20,350	22,000	24,660	31,470	35,840	34,840	31,760	27,960	21,910	22,750

	Calendar Year 2005	Water Year 2006
<b>Mean</b>	32,180	27,970
<b>Max</b>	39,460	47,170
<b>Min</b>	20,340	20,340

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