



Water-Data Report 2008

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 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Apr. 1957 to current year. Water-quality records: Chemical data: Jan. 1964 to Sept. 1977.

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 a 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

Water-quality records available from Jan. 1973 to Sept. 2006 were published separately as:

Site ID	Site name
324304097113601	Lk Arlington Site AC at Arlington, Tx
324253097121801	Lk Arlington Site BC at Arlington, Tx
324301097123301	Lk Arlington Site BL at Arlington, Tx
324257097130301	Lk Arlington Site CC at Arlington, Tx
324228097130301	Lk Arlington Site DC at Arlington, Tx
324143097132201	Lk Arlington Site EC at Arlington, Tx
324133097130601	Lk Arlington Site EL at Arlington, Tx
324041097134601	Lk Arlington Site FC at Arlington, Tx

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, 44,050 acre-ft, Apr. 24, elevation, 552.78 ft; minimum contents, 26,690 acre-ft, Sept. 30, elevation, 543.36 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	35,660	34,720	37,170	35,310	32,980	34,550	38,900	39,160	38,200	34,390	29,470	28,290
2	35,450	34,700	37,070	35,190	32,970	34,600	38,860	39,010	38,110	34,270	29,500	28,070
3	35,210	34,700	36,940	35,090	32,970	35,150	38,860	38,850	38,010	34,130	29,380	27,940
4	34,990	34,750	36,820	35,000	33,020	35,620	38,830	38,730	37,910	34,020	29,210	27,830
5	34,770	34,710	36,690	34,930	33,140	35,760	38,790	38,630	37,790	33,940	29,070	27,680
6	34,560	34,600	36,560	34,830	33,190	35,960	38,740	38,760	37,670	33,840	28,940	27,510
7	34,390	34,610	36,440	34,740	33,190	36,750	38,670	38,970	37,570	33,670	28,870	27,310
8	34,200	34,600	36,330	34,650	33,190	37,080	38,620	38,960	37,440	33,510	28,740	27,130
9	34,040	34,600	36,270	34,550	33,190	37,210	39,080	38,920	37,270	33,410	28,650	27,190
10	33,880	34,610	36,200	34,450	33,190	37,650	39,930	38,820	37,180	33,280	28,500	27,330
11	33,710	34,620	36,230	34,330	33,190	37,940	40,010	38,690	37,100	33,110	28,310	27,500
12	33,510	34,550	36,510	34,200	33,300	38,110	39,660	38,550	36,960	32,890	28,280	27,550
13	33,290	34,680	36,650	34,110	33,440	38,220	39,410	38,420	36,730	32,680	28,170	27,690
14	33,080	34,810	36,590	34,010	33,490	38,300	39,220	38,560	36,500	32,460	28,040	28,030
15	33,550	34,900	36,750	33,910	33,500	38,340	39,080	39,230	36,280	32,350	28,400	28,080
16	34,000	35,020	36,790	33,800	33,800	38,390	38,960	39,250	36,050	32,450	28,740	28,120
17	34,090	34,970	36,750	33,670	34,290	38,450	38,960	39,150	35,800	32,420	28,900	28,140
18	34,160	35,110	36,670	33,580	34,370	39,230	40,430	39,040	35,640	32,280	29,000	28,050
19	34,180	35,200	36,570	33,490	34,380	42,440	40,100	38,910	35,650	32,070	29,190	28,020
20	34,200	35,270	36,470	33,400	34,370	41,540	39,730	38,740	35,770	31,860	29,150	27,950
21	34,240	35,320	36,370	33,290	34,490	40,490	39,470	38,590	35,760	31,640	29,180	27,840
22	34,390	35,380	36,290	33,190	34,460	39,960	39,290	38,440	35,660	31,390	29,270	27,760
23	34,650	35,560	36,160	33,080	34,520	39,640	39,250	38,360	35,470	31,180	29,280	27,650
24	34,760	35,770	36,040	32,980	34,590	39,440	43,110	38,340	35,250	30,940	29,400	27,530
25	34,840	36,470	35,920	32,990	34,630	39,290	41,790	38,310	34,990	30,700	29,260	27,370
26	34,900	36,890	35,850	33,020	34,600	39,180	40,590	38,290	34,850	30,430	29,110	27,270
27	34,950	37,090	35,800	32,950	34,590	39,080	40,110	38,260	34,780	30,160	29,000	27,120
28	35,020	37,260	35,730	32,890	34,600	38,970	39,800	38,430	34,570	29,810	28,830	27,020
29	35,000	37,360	35,640	32,920	34,530	38,890	39,530	38,460	34,590	29,510	28,670	26,900
30	34,850	37,280	35,530	32,910	---	38,850	39,310	38,470	34,520	29,390	28,530	26,760
31	34,740	---	35,420	32,950	---	38,830	---	38,340	---	29,420	28,440	---
Mean	34,430	35,340	36,360	33,880	33,800	38,190	39,570	38,700	36,340	32,180	28,890	27,620
Max	35,660	37,360	37,170	35,310	34,630	42,440	43,110	39,250	38,200	34,390	29,500	28,290
Min	33,080	34,550	35,420	32,890	32,970	34,550	38,620	38,260	34,520	29,390	28,040	26,760

	Calendar Year 2007	Water Year 2008
Mean	37,620	34,610
Max	45,480	43,110
Min	33,080	26,760

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