

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.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Jan. 1964 to Sept. 1977.

BIOCHEMICAL 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. A new capacity table, Table No. 4, was received from the Texas Water Development Board and was put into use beginning Oct. 1, 2009.

REMARKS.--Records good. Some records listed in the Period of Record for surface water and water quality may not be available electronically. 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 40,188 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, 40,370 acre-ft, Oct. 1, elevation, 550.09 ft; minimum contents, 22,670 acre-ft, Sept. 30, elevation, 540.25 ft.

08049200 Lake Arlington at Arlington, TX—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	40,250	37,100	35,340	37,300	38,810	38,410	36,270	34,110	38,660	33,890	25,660	25,380
2	40,040	37,130	35,200	37,430	38,760	38,390	36,140	35,590	38,460	33,680	25,450	25,250
3	39,840	37,790	35,110	37,540	38,680	38,460	36,010	37,190	38,310	33,520	25,220	25,200
4	39,640	38,040	35,070	37,610	38,640	38,410	36,210	37,300	38,100	33,350	24,960	25,010
5	39,440	38,030	35,050	37,710	38,600	38,310	36,270	37,250	37,920	33,060	24,720	24,930
6	39,260	38,080	35,060	37,810	38,620	38,270	36,140	37,160	37,650	32,820	24,520	25,060
7	39,100	38,060	35,070	37,920	38,740	38,190	36,000	37,030	37,470	32,560	24,420	24,950
8	38,920	37,940	35,080	38,050	38,860	38,120	35,850	36,880	37,320	32,290	24,370	24,780
9	38,740	37,820	35,110	38,680	38,860	38,040	35,720	36,700	37,120	31,980	24,330	24,550
10	38,550	37,700	35,110	39,530	38,820	37,960	35,520	36,530	36,990	31,680	24,270	24,410
11	38,350	37,560	35,110	39,560	38,780	37,890	35,910	36,650	36,860	31,390	24,180	24,230
12	38,180	37,470	35,100	39,550	38,720	37,800	36,020	37,620	36,720	31,110	24,170	24,100
13	37,980	37,340	35,090	39,550	38,660	37,740	35,940	37,730	36,530	30,820	24,350	24,090
14	37,770	37,240	35,090	39,520	38,590	37,620	35,850	37,610	36,350	30,510	24,660	23,960
15	37,560	37,120	35,140	39,490	38,540	37,530	35,670	37,500	36,220	30,140	24,860	23,810
16	37,390	37,040	35,150	39,580	38,520	37,470	35,440	37,320	36,000	29,830	24,980	23,680
17	37,210	36,920	35,180	39,700	38,520	37,420	35,280	37,170	35,750	29,530	25,050	23,920
18	37,020	36,760	35,220	39,680	38,490	37,340	35,110	37,020	35,530	29,230	25,100	23,910
19	36,840	36,650	35,300	39,660	38,480	37,250	35,000	36,840	35,310	28,890	25,140	23,890
20	36,690	36,550	35,270	39,600	38,490	37,150	35,040	36,930	35,090	28,570	25,180	23,970
21	36,500	36,450	35,190	39,520	38,470	37,060	35,120	37,420	34,990	28,240	25,200	23,840
22	36,330	36,340	35,180	39,450	38,430	36,960	35,090	37,590	35,150	27,920	25,120	23,680
23	36,450	36,210	35,240	39,400	38,420	36,840	34,930	38,160	35,220	27,670	25,150	23,590
24	37,100	36,130	35,350	39,330	38,480	36,710	34,790	38,710	35,170	27,440	25,180	23,490
25	37,080	36,000	35,730	39,240	38,450	36,660	34,840	38,940	35,070	27,160	25,050	23,370
26	36,960	35,860	35,920	39,180	38,440	36,720	34,780	39,030	34,940	26,880	25,130	23,250
27	36,990	35,810	36,050	39,120	38,440	36,760	34,670	39,100	34,720	26,620	25,170	23,180
28	37,020	35,760	36,170	39,030	38,450	36,750	34,530	39,080	34,510	26,350	25,210	23,000
29	37,040	35,640	36,780	38,960	---	36,630	34,380	39,010	34,300	26,150	25,150	22,860
30	37,090	35,470	37,070	38,880	---	36,520	34,170	38,950	34,110	25,990	25,290	22,730
31	37,100	---	37,210	38,770	---	36,400	---	38,810	---	25,820	25,390	---
Mean	37,880	36,930	35,440	38,910	38,600	37,480	35,420	37,510	36,220	29,840	24,920	24,070
Max	40,250	38,080	37,210	39,700	38,860	38,460	36,270	39,100	38,660	33,890	25,660	25,380
Min	36,330	35,470	35,050	37,300	38,420	36,400	34,170	34,110	34,110	25,820	24,170	22,730

	Calendar Year 2010	Water Year 2011
Mean	38,140	34,420
Max	49,960	40,250
Min	32,660	22,730

08049200 Lake Arlington at Arlington, TX—Continued

