



Water-Data Report 2012

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, 49,030 acre-ft, Mar. 20, elevation, 554.45 ft; minimum contents, 21,910 acre-ft, Oct. 8, elevation, 539.76 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	22,630	26,390	25,610	30,710	40,680	40,160	40,080	39,890	37,700	35,260	29,490	30,950
2	22,520	26,510	25,590	30,710	40,530	40,120	39,940	39,730	37,570	35,160	29,210	30,970
3	22,470	26,440	25,630	30,750	40,410	40,080	40,140	39,530	37,410	35,110	28,910	30,950
4	22,430	26,360	26,590	30,760	40,300	40,040	40,730	39,330	37,230	34,930	28,630	30,740
5	22,310	26,330	28,040	30,750	40,200	39,980	40,560	39,210	37,060	34,680	28,350	30,470
6	22,190	26,290	28,670	30,730	40,100	39,920	40,380	39,110	37,020	34,440	28,090	30,190
7	22,100	26,270	28,710	30,710	40,020	39,870	40,240	39,000	37,380	34,230	27,920	29,920
8	22,000	26,380	28,750	30,730	39,940	39,860	40,530	39,070	37,510	34,070	27,710	29,590
9	23,480	26,330	28,800	31,210	39,870	39,820	42,060	39,120	37,500	33,910	27,570	29,330
10	25,260	26,240	28,830	32,390	39,830	39,980	41,550	39,050	37,420	33,850	27,440	29,070
11	25,340	26,240	28,830	32,840	39,750	40,890	41,120	39,150	37,360	33,900	27,290	28,770
12	25,610	26,200	28,830	32,930	39,670	40,960	40,790	39,800	37,250	33,810	27,150	28,560
13	25,830	26,150	28,830	32,950	39,640	40,810	40,560	39,920	37,160	33,640	27,140	28,310
14	25,760	26,110	28,910	32,930	39,620	40,710	40,380	40,000	37,060	33,450	27,070	28,140
15	25,630	26,100	29,110	32,890	39,600	40,630	40,340	40,010	37,020	33,250	27,330	28,120
16	25,490	26,060	29,340	32,870	39,550	40,530	40,340	39,930	37,050	33,190	27,570	28,100
17	25,440	25,960	29,420	32,820	39,490	40,460	40,240	39,810	37,040	33,100	27,680	28,170
18	25,550	25,920	29,450	32,780	40,250	40,360	40,180	39,650	36,980	32,890	27,940	28,230
19	25,500	25,900	29,580	32,740	42,360	40,400	40,070	39,440	36,870	32,610	29,130	28,210
20	25,430	25,840	30,210	32,650	41,920	46,080	40,040	39,230	36,760	32,350	29,360	28,150
21	25,370	25,790	30,330	32,540	41,450	46,220	40,080	38,990	36,650	32,220	29,550	27,950
22	25,320	25,930	30,380	32,490	41,110	43,730	40,050	38,840	36,600	32,060	29,750	27,780
23	25,270	25,990	30,430	32,400	40,840	42,450	40,000	38,680	36,520	31,810	29,900	27,580
24	25,280	25,950	30,470	32,430	40,650	41,720	39,890	38,440	36,460	31,620	30,010	27,350
25	25,420	25,900	30,530	39,830	40,530	41,260	39,900	38,200	36,360	31,370	30,100	27,120
26	25,560	25,860	30,630	44,260	40,390	40,910	39,920	37,970	36,240	31,060	30,220	26,880
27	25,670	25,780	30,690	43,070	40,290	40,700	39,960	37,740	36,060	30,790	30,450	26,630
28	25,830	25,740	30,690	42,090	40,230	40,530	39,970	37,490	35,870	30,560	30,630	26,460
29	25,950	25,700	30,720	41,500	40,180	40,410	39,950	37,460	35,630	30,280	30,740	26,710
30	26,090	25,630	30,730	41,130	---	40,310	39,960	37,330	35,450	29,970	30,800	27,950
31	26,230	---	30,720	40,870	---	40,200	---	37,600	---	29,730	30,880	---
Mean	24,680	26,080	29,160	34,210	40,320	40,970	40,330	38,990	36,870	32,880	28,840	28,580
Max	26,230	26,510	30,730	44,260	42,360	46,220	42,060	40,010	37,700	35,260	30,880	30,970
Min	22,000	25,630	25,590	30,710	39,490	39,820	39,890	37,330	35,450	29,730	27,070	26,460

	Calendar Year 2011	Water Year 2012
Mean	31,870	33,460
Max	39,700	46,220
Min	22,000	22,000

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