

**07302500 LAKE ALTUS AT LUGERT, OK**

North Fork Red Basin  
Middle North Fork Red Subbasin

LOCATION.--Lat 34°53'08", long 99°17'43" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.22, T.5 N., R.20 W., Kiowa County, OK, Hydrologic Unit 11120302, on upstream face of Altus Dam on North Fork Red River, 1.0 mi west of Lugert, 2.6 mi upstream from Elm Fork of North Fork, and at mile 73.5.

DRAINAGE AREA.--2,832 mi<sup>2</sup> of which 579 mi<sup>2</sup> probably is noncontributing, from automated delineation using 10-meter National Elevation Dataset digital elevation model data dated 10/01/2006 and Watershed Boundary Dataset dated 10/01/2006, using Albers Equal-Area Projection, North American Datum 1983.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--December 1943 to September 1950 (monthly records only), October 1950 to current year.

REVISED RECORDS.--WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by U.S. Bureau of Reclamation). Prior to Nov. 19, 1948, nonrecording or float gage at same site and datum.

REMARKS.--Reservoir is formed by concrete and coursed masonry dam. Storage began in December 1943. Capacity, 134,500 acre- ft at elevation 1,559.0 ft, crest of uncontrolled spillway, and 72,400 acre-ft at elevation 1,547.0 ft, crest of controlled spillway. Dead storage, 1,660 acre-ft below elevation 1,517.5 ft, sill of headgate at irrigation canal. Figures given herein represent total contents. Reservoir is used for flood control and irrigation of about 48,000 acres. Revised capacity table used since June 15, 2012. From 1927 to 1943, a dam to form reservoir for municipal water supply was at same site. Elevation of crest was 1,514.31 ft. U.S. Army Corps of Engineers' satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 170,600 acre-ft, May 19, 1951, elevation 1,562.10 ft; minimum after initial storage, 4,690 acre-ft, Aug. 25, 1944, elevation, 1,520.2 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 23,820 acre-ft, Oct. 1, elevation 1,533.04 ft; minimum, 16,130 acre-ft, Sept. 27, elevation, 1,529.53 ft.

Reservoir Elevation-Capacity Table

Elevation, in ft	Capacity, in acre-ft	Elevation, in ft	Capacity, in acre-ft
1520	1,889	1540	43,190
1525	7,971	1548	72,940
1529	15,060	1559	128,900
1534	26,160	1563	155,400

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**RESERVOIR STORAGE, ACRE FEET**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY OBSERVATION AT 2400 HOURS**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	23,680	22,560	21,900	e21,500	21,480	21,720	21,740	e22,160	21,760	20,350	18,430	17,210
2	23,610	22,600	21,860	21,460	21,440	21,720	21,740	e22,000	21,650	20,320	18,330	17,150
3	23,470	22,510	21,880	21,440	21,460	21,720	21,830	21,930	21,530	20,170	18,240	17,090
4	23,510	22,490	21,830	21,440	21,460	21,720	21,830	21,970	e21,530	20,080	18,200	17,060
5	23,510	22,460	21,810	21,440	21,410	21,620	e21,760	21,900	21,530	e19,970	18,080	17,000
6	23,400	22,460	21,830	21,440	e21,390	21,550	e21,930	21,930	21,440	19,990	e18,010	e16,940
7	23,330	22,350	21,760	21,410	e21,410	21,550	21,900	21,880	21,390	19,900	18,080	16,910
8	23,300	22,320	21,720	21,390	e21,390	21,510	e21,830	e21,830	21,210	19,840	e18,120	16,780
9	23,350	22,280	e21,660	21,650	e21,380	21,650	e22,110	e21,860	21,300	e19,810	18,050	16,740
10	23,230	22,350	e21,630	21,670	e21,370	21,600	e22,210	e21,880	21,170	19,790	18,010	16,720
11	23,230	22,420	21,620	21,740	21,320	21,550	e22,230	21,830	21,060	19,700	18,100	16,700
12	e23,200	22,280	e21,600	21,670	21,480	21,550	22,280	21,760	21,080	19,610	18,200	16,670
13	e23,150	22,250	e21,620	21,670	21,510	21,550	22,140	e21,720	21,030	19,570	18,140	16,740
14	e23,120	22,180	e21,620	21,620	21,510	21,580	e22,320	e21,670	21,010	19,610	18,100	16,740
15	23,120	22,230	e21,620	21,600	21,460	21,580	22,250	21,720	20,950	19,570	17,990	16,850
16	23,090	22,140	21,600	21,620	21,440	e21,590	22,250	21,860	20,880	19,970	18,030	16,830
17	23,070	22,070	21,580	21,580	21,440	e21,630	22,420	21,860	21,350	19,950	17,950	16,700
18	23,020	22,140	21,650	21,580	21,370	e21,670	e22,350	21,950	21,260	19,950	17,870	16,610
19	22,930	22,160	21,580	21,580	21,320	21,670	22,250	e22,110	21,170	19,900	17,840	16,610
20	22,930	22,140	21,530	21,620	21,410	21,620	e22,140	22,140	e21,060	19,790	17,780	16,590
21	22,880	21,970	21,510	21,530	21,580	21,740	e22,180	22,140	20,990	19,790	17,720	16,540
22	22,840	22,180	21,510	21,580	21,510	21,720	22,210	22,110	e20,920	19,640	17,630	16,460
23	22,860	22,070	21,510	21,580	21,460	21,720	e22,180	22,070	20,790	19,530	17,610	16,460
24	e22,830	22,000	21,480	21,580	21,600	21,690	e22,160	22,040	e20,770	19,370	17,610	16,410
25	e22,800	22,020	e21,480	21,530	21,880	21,650	22,110	e22,000	e20,660	19,280	17,530	16,260
26	22,740	22,020	e21,500	21,580	21,830	21,580	e22,160	e21,930	e20,640	19,150	17,490	16,200
27	22,700	21,860	21,510	21,550	21,760	21,580	e22,140	e21,900	20,570	18,980	17,380	e16,190
28	22,650	21,900	21,480	e21,530	21,740	21,600	22,160	e21,950	20,570	18,860	e17,360	16,540
29	22,630	21,900	21,390	e21,540	---	21,650	21,970	21,740	20,500	18,690	17,300	16,440
30	22,600	21,900	e21,410	e21,520	---	21,650	e21,970	21,790	20,460	18,710	17,230	16,370
31	22,580	---	e21,460	21,530	---	21,690	---	e21,790	---	18,560	17,190	---
<b>Max</b>	23,680	22,600	21,900	21,740	21,880	21,740	22,420	22,160	21,760	20,350	18,430	17,210
<b>Min</b>	22,580	21,860	21,390	21,390	21,320	21,510	21,740	21,670	20,460	18,560	17,190	16,190
<b>Elevation, in feet, at end of month</b>	1,532.51	1,532.22	e1,532.03	1,532.06	1,532.15	1,532.13	1,532.25	1,532.17	1,531.58	1,530.71	1,530.06	1,529.65
<b>Change in contents, in acre-ft</b>	-1,120	-680	-440	+70	+210	-50	+280	-180	-1,330	-1,900	-1,370	-820

	Calendar Year 2012	Water Year 2013
<b>Max</b>	33,520	23,680
<b>Min</b>	21,390	16,190
<b>Change in Contents, in acre-ft</b>	-3,500	-7,330

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