



Water-Data Report 2006

07308990 LAKE ELLSWORTH NEAR ELGIN, OK

Red-Lake Texoma Basin
Cache Subbasin

LOCATION.--Lat 34°47'40", long 98°22'07" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.28, T.4 N., R.11 W., Comanche County, OK, Hydrologic Unit 11130202, near right end of dam on East Cache Creek, 4 miles west of Elgin and at mile 59.9.

DRAINAGE AREA.--249 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.47 ft above NAVD of 1988 (City of Lawton benchmark).

REMARKS.--Reservoir is formed by concrete dam. Storage began in 1964. Capacity, 189,200 acre-ft, gage height 1,250.00 ft, top of dam; and 72,490 acre-ft, gage height 1,235.00 ft, top of gates; 25,730 acre-ft, gage height 1,225.00 ft, top of spillway. Reservoir is used for recreation. U.S. Geological Survey satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 88,970 acre-ft, Oct. 23, 2000, gage height 1,237.55 ft; minimum contents, 8,630 acre-ft, Sept. 29, 30, Oct. 1, 2004, gage height, 1,219.50 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 36,670 acre-ft, Oct. 5, gage height 1,227.64 ft; minimum, 16,430 acre-ft, Sept. 16, gage height, 1,222.14 ft.

Reservoir Elevation-Capacity Table

Elevation, in ft	Capacity, in acre-ft	Elevation, in ft	Capacity, in acre-ft
1215	1,104	1235	72,490
1220	9,470	1240	104,800
1225	25,730	1245	143,700
1230	46,450	1250	189,200

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VIA SATELLITE
RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	36,460	33,730	30,370	27,800	25,080	23,710	22,840	21,700	22,190	20,530	18,150	17,240
2	36,500	33,600	30,290	27,800	25,050	23,650	23,100	21,730	22,120	20,460	18,020	17,340
3	36,460	33,440	30,450	27,800	24,980	e23,390	22,710	21,830	22,060	20,460	17,990	17,270
4	36,380	33,350	30,120	27,760	24,880	23,290	22,640	21,890	21,990	20,460	17,860	17,310
5	36,420	33,270	29,920	27,680	24,850	23,290	22,540	22,250	21,930	20,530	17,800	17,210
6	36,130	33,190	30,080	27,470	24,790	23,190	22,450	22,480	21,860	20,430	17,800	17,210
7	35,970	33,150	29,750	27,300	24,720	23,160	22,450	22,540	21,830	20,360	17,670	17,080
8	35,800	33,060	29,540	27,300	24,690	23,190	22,280	22,900	21,730	20,330	17,670	17,010
9	35,680	32,980	29,460	27,430	24,660	23,130	22,190	23,100	21,600	20,360	17,530	16,880
10	35,590	32,860	29,380	27,140	24,560	23,160	22,090	22,970	21,500	20,490	17,470	17,010
11	35,510	32,690	29,290	27,060	24,430	23,160	22,060	22,970	21,370	20,590	17,440	17,010
12	35,430	32,650	29,250	26,930	24,400	23,060	22,060	22,970	21,340	20,560	17,270	16,880
13	35,340	32,480	29,130	26,770	24,400	23,030	22,020	23,030	21,310	20,460	17,240	16,820
14	35,220	32,360	29,130	26,560	24,330	22,900	21,960	23,060	21,180	20,330	17,240	16,720
15	35,140	32,190	28,960	26,430	24,300	22,800	21,960	22,930	21,080	20,200	17,570	16,660
16	35,010	32,030	28,920	26,430	24,400	22,840	21,890	22,930	21,050	20,140	17,370	16,620
17	34,930	31,860	28,880	26,140	24,230	22,740	21,760	22,930	20,880	20,070	17,310	20,850
18	34,810	31,780	28,840	25,980	24,140	23,000	21,830	22,900	20,820	19,970	17,270	20,950
19	34,850	31,700	28,760	25,850	24,070	23,100	21,470	22,900	20,690	19,840	17,340	20,880
20	34,680	31,610	28,710	25,730	24,040	22,970	21,440	22,840	20,620	19,780	17,180	20,660
21	34,470	31,530	28,630	25,600	24,010	22,970	21,240	22,800	20,620	19,750	17,180	20,690
22	34,350	31,450	28,550	25,530	23,970	23,030	21,140	22,770	20,690	19,520	17,400	20,660
23	34,180	31,320	28,470	25,470	e23,910	22,800	21,080	22,580	20,690	19,390	17,340	20,590
24	34,020	31,280	28,380	25,470	23,810	22,770	21,240	22,670	20,750	19,260	17,240	20,460
25	33,980	31,080	28,300	25,400	23,810	22,710	21,110	22,610	20,750	19,100	17,080	20,400
26	33,940	31,030	28,220	25,340	23,710	22,610	21,010	22,510	20,620	19,000	17,210	20,330
27	33,850	30,870	28,220	25,310	23,650	22,670	20,880	22,410	20,660	18,870	17,310	20,400
28	33,810	30,830	28,090	25,140	23,620	22,640	21,180	22,380	20,590	18,840	17,500	20,140
29	33,690	30,620	27,760	25,270	---	22,540	21,630	22,350	20,560	18,640	17,470	20,040
30	33,690	30,620	27,930	25,180	---	22,640	21,660	22,610	20,560	18,450	17,400	19,970
31	33,850	---	27,880	25,050	---	22,540	---	22,220	---	18,350	17,310	---
Mean	35,040	32,150	29,020	26,390	24,340	22,990	21,860	22,610	21,190	19,860	17,470	18,640
Max	36,500	33,730	30,450	27,800	25,080	23,710	23,100	23,100	22,190	20,590	18,150	20,950
Min	33,690	30,620	27,760	25,050	23,620	22,540	20,880	21,700	20,560	18,350	17,080	16,620
Elevation, in feet, at end of month	1226.96	1226.18	1225.52	1224.79	1224.35	1224.02	1223.75	1223.92	1223.41	1222.73	1222.41	1223.23
Change in contents, in acre-ft	-2530	-3230	-2740	-2830	-1430	-1080	-880	+560	-1660	-2210	-1040	+2660

	Calendar Year 2005	Water Year 2006
Mean	40,590	24,310
Max	47,650	36,500
Min	27,760	16,620
Change in contents, in acre-ft	-10,450	-16,410

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