07159550 LAKE HEFNER AT OKLAHOMA CITY, OK

Lower Cimarron Basin
Lower Cimarron-Skeleton Subbasin

LOCATION.--Lat 35°34′58″, long 97°35′43″ referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.23, T.13 N., R.4 W., Oklahoma County, OK, Hydrologic Unit 11050002, on south side of dam on Bluff Creek, 50 ft north of intake structure, 3.0 mi northeast of Hefner Canal at Oklahoma City (07240000) and 6.0 mi northeast of Bethany.

DRAINAGE AREA.--8.99 mi^2, 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. The source of water for Lake Hefner is mainly diversion of water from the North Canadian River at Lake Overholser through Bluff Creek Canal and runoff in the drainage basin.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 17, 1999 to current year.

REVISED RECORDS.--WDR 2012: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.--Reservoir is formed by an earthen dam which is more than 3 mi long and has a maximum height of 112 ft. The reservoir was constructed in 1947 by the City of Oklahoma City. Capacity, 107,000 acre-ft, elevation, 1209.0 ft, top of stone wall; normal pool, 75,355 acre-ft, elevation, 1199.0 ft. Figures given herein represent total contents. Capacity table supplied by City of Oklahoma City. U.S. Geological Survey satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, unknown acre-ft, June 5,6, 2013, elevation 1,201.11 ft; minimum, 39,340 acre-ft, Jan. 27, 2013, elevation, 1182.29 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, unknown acre-ft, June 5,6, elevation 1,201.11 ft; minimum, 39,340 acre-ft, Jan. 27, elevation, 1,182.29 ft.

Reservoir Elevation-Capacity Table

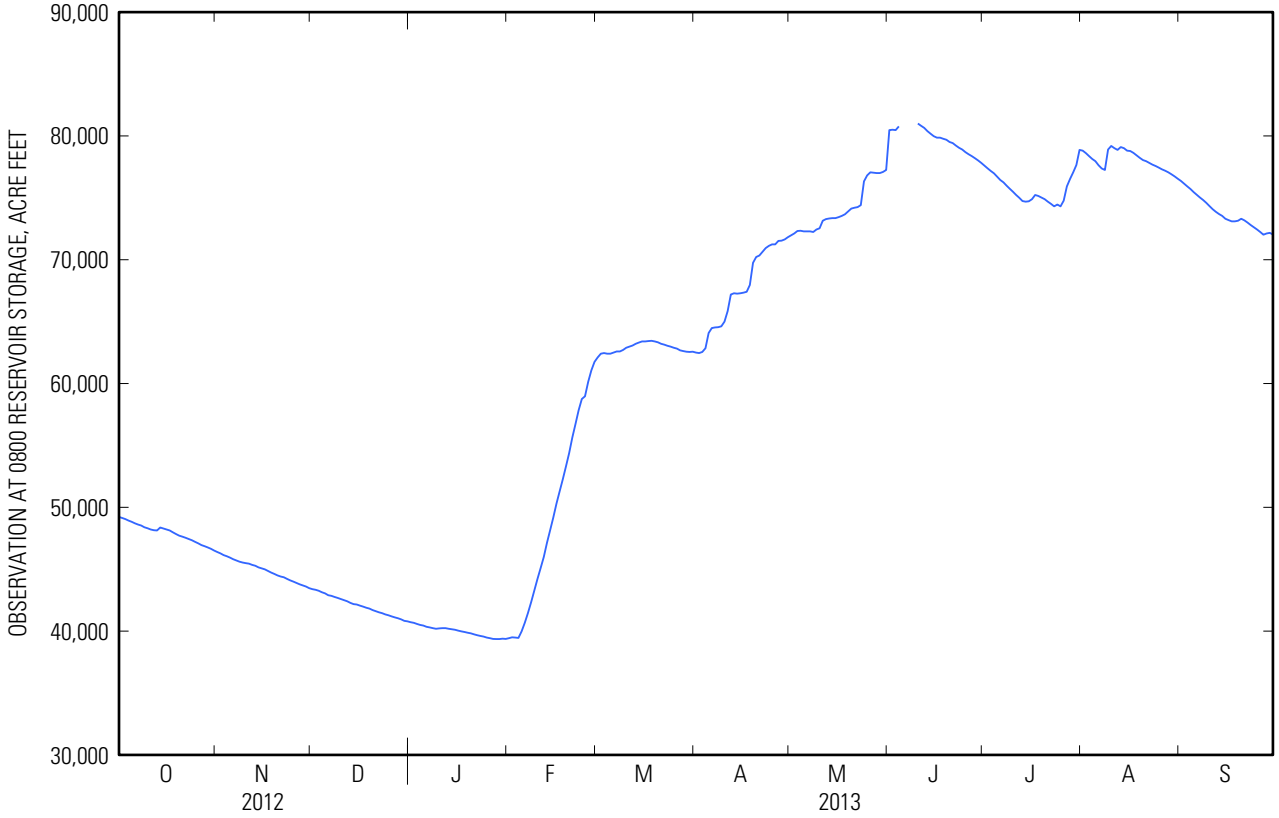
Elevation, in ft	Capacity, in acre-ft	Elevation, in ft	Capacity, in acre-ft
1176	28,100	1190	54,250
1180	35,200	1199	75,355
1185	44,334	1201	81,000

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 07159550, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/07159550.2013.pdf

07159550 LAKE HEFNER AT OKLAHOMA CITY, OK—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY OBSERVATION AT 0800 HOURS
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	49,220	46,390	e43,390	40,720	39,430	62,110	62,500	71,970	80,470	77,600	78,810	76,360
2	49,140	46,280	43,340	40,670	39,500	62,410	e62,460	72,120	80,500	77,380	78,610	76,140
3	49,050	46,140	e43,260	40,580	39,480	62,460	62,550	72,320	80,470	77,170	78,370	75,920
4	48,930	46,050	43,140	40,500	39,450	62,410	62,850	72,340	e80,770	76,980	78,140	75,710
5	48,830	45,940	43,050	40,450	39,980	62,410	64,080	72,290	---	76,710	77,960	75,460
6	48,710	45,810	42,900	40,350	40,670	62,500	e64,480	72,290	---	76,440	77,630	e75,240
7	48,610	45,710	42,850	40,300	41,460	62,590	64,530	72,290	---	76,250	e77,370	75,020
8	48,530	e45,610	42,760	40,240	42,330	62,590	64,550	e72,240	---	75,980	77,250	74,820
9	48,390	e45,540	42,680	40,190	43,270	62,710	64,620	72,440	---	75,730	78,900	74,590
10	48,310	e45,490	42,590	40,220	44,210	62,890	65,000	72,540	81,000	75,490	79,190	74,330
11	48,210	45,450	42,500	e40,240	45,090	62,980	65,850	73,150	80,820	75,230	79,010	74,080
12	48,150	45,350	42,410	40,240	45,990	63,070	67,190	73,280	80,650	75,000	78,870	73,870
13	48,130	45,280	e42,280	40,190	47,130	63,210	67,290	e73,330	80,390	74,740	79,100	73,690
14	48,370	45,150	e42,180	40,150	48,150	63,310	67,260	73,360	80,180	74,690	79,010	73,540
15	48,290	45,070	42,150	40,110	49,180	63,400	67,290	73,360	79,980	74,720	78,810	73,310
16	48,210	44,990	42,060	40,040	50,300	63,400	67,340	73,440	79,860	74,890	78,780	73,200
17	48,130	44,860	41,980	39,980	51,290	63,430	67,410	73,540	e79,860	75,230	78,630	73,100
18	47,980	44,730	41,890	39,930	52,270	63,450	e67,960	e73,670	79,770	75,150	78,430	73,100
19	47,840	44,620	41,820	39,870	53,310	63,400	69,750	e73,900	79,690	75,020	78,230	73,150
20	47,710	44,500	41,700	39,820	54,380	63,330	70,220	e74,130	79,510	74,890	78,050	73,310
21	47,630	e44,410	41,610	39,740	55,640	63,210	70,340	74,200	79,420	74,690	77,960	73,180
22	47,540	44,350	41,520	39,670	56,730	63,140	70,640	74,250	79,220	74,510	77,820	73,000
23	47,440	44,220	41,450	39,610	57,850	63,050	70,940	74,410	79,040	74,310	77,680	72,800
24	47,340	44,100	41,350	39,560	58,750	62,980	71,120	76,330	78,900	74,460	77,570	72,620
25	47,210	44,000	41,280	39,480	58,970	62,890	71,240	76,810	e78,690	74,310	77,440	72,440
26	47,090	43,890	41,190	39,430	60,130	62,820	71,240	77,060	78,520	74,770	77,300	72,240
27	46,950	43,780	41,110	39,370	61,060	62,680	71,520	77,030	78,370	75,920	77,190	72,020
28	46,860	43,690	41,040	39,360	61,750	62,620	71,540	e77,000	78,200	76,520	77,060	72,120
29	46,760	43,600	40,950	39,360	---	62,570	71,640	77,000	78,020	77,060	76,900	72,170
30	46,650	43,470	40,830	39,390	---	62,550	e71,820	e77,090	77,820	77,650	76,730	72,040
31	46,510	---	e40,790	39,370	---	e62,570	---	e77,250	---	78,870	76,540	---
Max	49,220	46,390	43,390	40,720	61,750	63,450	71,820	77,250	---	78,870	79,190	76,360
Min	46,510	43,470	40,790	39,360	39,430	62,110	62,460	71,970	---	74,310	76,540	72,020
Elevation, in feet, at end of month												
	1186.11	1184.50	1183.06	1182.33	1193.52	1193.75	1197.65	1200.42	1199.85	1200.26	1199.38	1197.65
Change in contents, in acre-ft												
	-2770	-3040	-2680	-1420	+22380	+820	+9250	+5430	+570	+1050	-2330	-4500

	Calendar Year 2012	Water Year 2013
Max	72,190	Unknown
Min	e40,790	39,340
Change in Contents, in acre-ft	-21550	+22760

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