Water-Data Report 2008

07311415 Lake Frederick nr Frederick, OK

Red-Lake Texoma Basin
West Cache Subbasin

LOCATION.--Lat 34°30′43″, long 98°53′11″ referenced to North American Datum of 1927, in SW ¼ NW ¼ SE ¼ sec.33, T.1 N., R.16 W., Tillman County, OK, Hydrologic Unit 11130203, On southside of dam near gate tower. 59 mi above Cache Creek.

DRAINAGE AREA.--57.1 mi^2

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 2007 to present

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

REMARKS.--Reservoir is formed by earthen dam with uncontrolled grassed spillway, elevation 1,211.00 ft. Primary concrete tower spillway 1,200.30 ft. Storage began in 1974. Reservior is used for water supply for the City of Frederick, recreation use, and flood control. U.S. Geological survey satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 27,540 acre-ft, Jun 30, 2007, elevation, 1,212.45 ft; minimum 9,930 acre-ft, Aug 7, 2008, elevation 1,198.03 ft.

EXTREMES FOR 2007 YEAR.--Maximum contents, 27,540 acre-ft, Jun 30, elevation 1,212.45 ft; minimum 10,820 acre-ft, Sep 30 elevation, 1,199.12 ft.

EXTREMES FOR 2008 YEAR.--Maximum contents, 15,320 acre-ft, Apr 10, elevation 1,203.73 ft; minimum 9,930 acre-ft, Aug 07 elevation, 1,198.03 ft.

Reservoir Elevation-Capacity Table

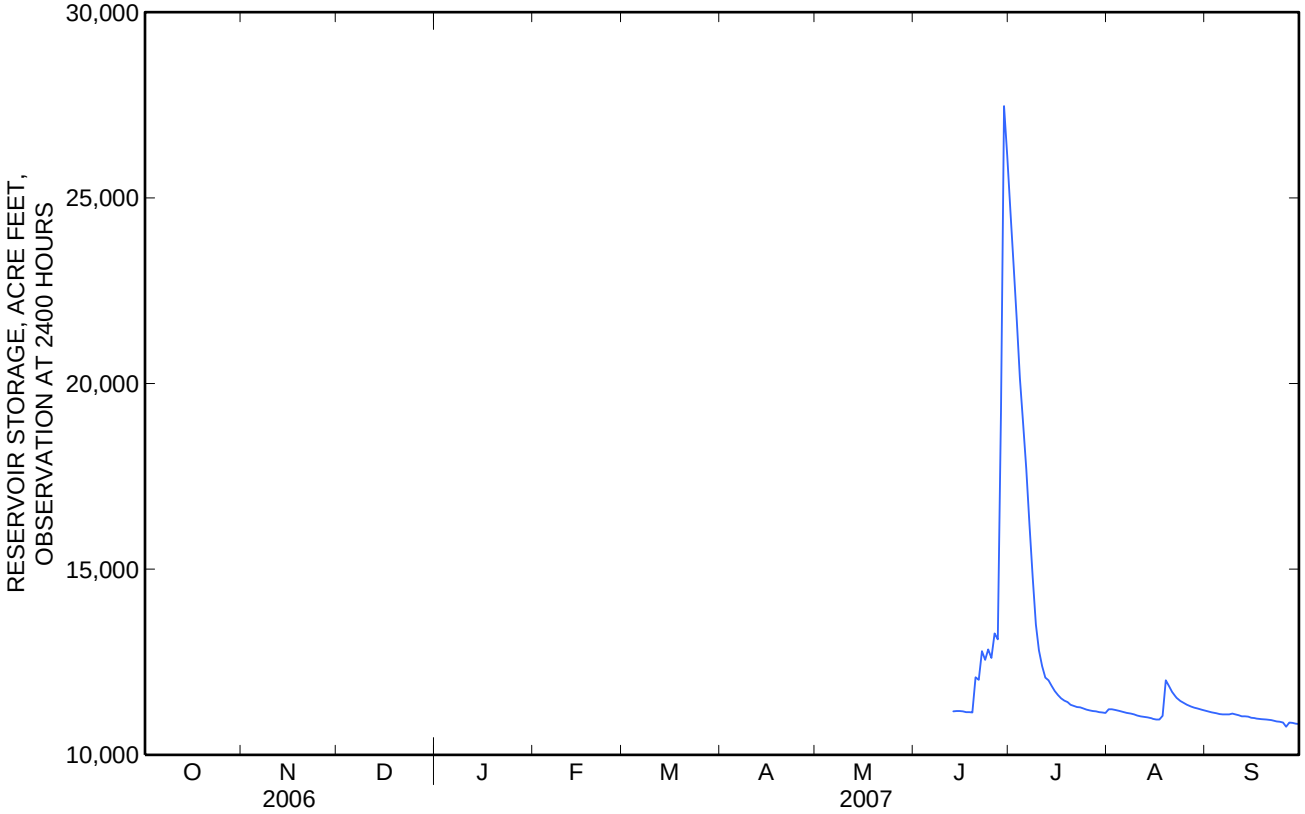
Elevation, in ft	Capacity, in acre-ft	Elevation, in ft	Capacity, in acre-ft
1188	3,711	1204	15,589
1192	5,659	1208	20,576
1196	8,254	1212	26,713
1200	11,547	1216	34,105

07311415 Lake Frederick nr Frederick, OK—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	24,630	11,230	11,180
2	---	---	---	---	---	---	---	---	---	23,170	11,230	11,150
3	---	---	---	---	---	---	---	---	---	21,680	11,210	11,140
4	---	---	---	---	---	---	---	---	---	20,150	11,190	11,120
5	---	---	---	---	---	---	---	---	---	18,940	11,170	11,100
6	---	---	---	---	---	---	---	---	---	17,700	11,140	11,090
7	---	---	---	---	---	---	---	---	---	16,200	11,130	11,090
8	---	---	---	---	---	---	---	---	---	14,790	11,110	11,090
9	---	---	---	---	---	---	---	---	---	13,510	11,090	11,110
10	---	---	---	---	---	---	---	---	---	12,820	11,060	11,090
11	---	---	---	---	---	---	---	---	---	12,390	11,040	11,070
12	---	---	---	---	---	---	---	---	---	12,080	11,030	11,040
13	---	---	---	---	---	---	---	---	11,170	12,010	11,010	11,040
14	---	---	---	---	---	---	---	---	11,180	11,860	11,000	11,030
15	---	---	---	---	---	---	---	---	11,180	11,720	10,970	11,000
16	---	---	---	---	---	---	---	---	11,170	11,610	10,950	10,990
17	---	---	---	---	---	---	---	---	11,150	11,520	10,950	10,970
18	---	---	---	---	---	---	---	---	11,150	11,460	11,050	10,970
19	---	---	---	---	---	---	---	---	11,140	11,420	12,010	10,950
20	---	---	---	---	---	---	---	---	12,090	11,350	11,860	10,950
21	---	---	---	---	---	---	---	---	12,020	11,320	11,700	10,940
22	---	---	---	---	---	---	---	---	12,790	11,290	11,580	10,920
23	---	---	---	---	---	---	---	---	12,560	11,280	11,490	10,900
24	---	---	---	---	---	---	---	---	12,840	11,250	11,430	10,890
25	---	---	---	---	---	---	---	---	12,610	11,220	11,380	10,870
26	---	---	---	---	---	---	---	---	13,270	11,200	11,340	10,760
27	---	---	---	---	---	---	---	---	13,110	11,180	11,300	10,870
28	---	---	---	---	---	---	---	---	19,270	11,170	11,270	10,860
29	---	---	---	---	---	---	---	---	27,470	11,150	11,250	10,840
30	---	---	---	---	---	---	---	---	26,130	11,140	11,230	10,830
31	---	---	---	---	---	---	---	---	---	11,130	11,200	---
Max	---	---	---	---	---	---	---	---	---	24,630	12,010	11,180
Min	---	---	---	---	---	---	---	---	---	11,130	10,950	10,760
Elevation, in feet, at end of month	---	---	---	---	---	---	---	---	1,211.62	1,199.49	1,199.58	1,199.13
Change in contents, in acre-ft	---	---	---	---	---	---	---	---	---	-15,000	+70	-370

07311415 Lake Frederick nr Frederick, OK—Continued

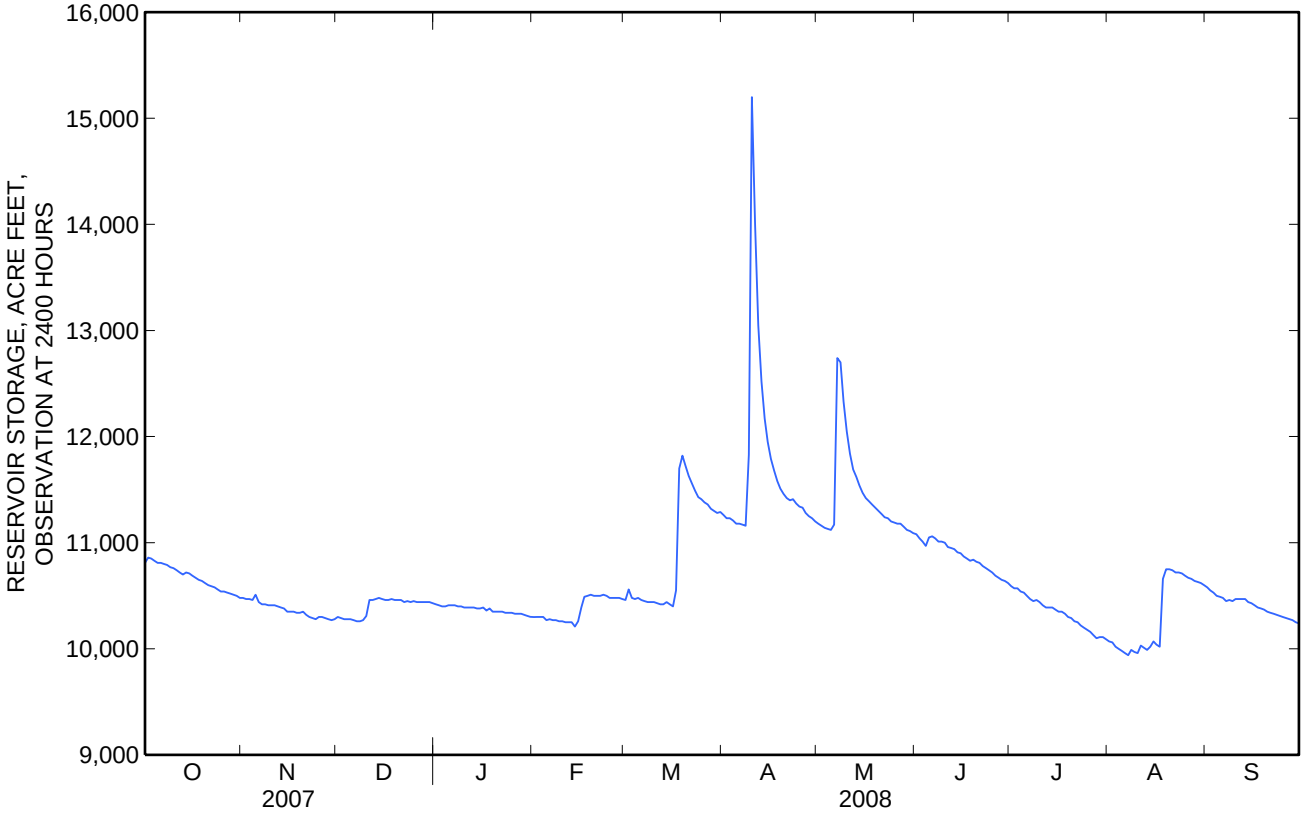


07311415 Lake Frederick nr Frederick, OK—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	10,810	10,480	10,300	10,420	10,300	10,460	11,260	11,180	11,080	10,590	10,070	10,580
2	10,860	10,470	10,290	10,410	10,300	10,560	11,230	11,160	11,040	10,570	10,060	10,550
3	10,850	10,470	10,280	10,400	10,300	10,480	11,230	11,140	11,010	10,570	10,020	10,530
4	10,830	10,460	10,280	10,400	10,300	10,470	11,210	11,130	10,970	10,540	10,000	10,500
5	10,810	10,510	10,280	10,410	10,270	10,480	11,180	11,120	11,050	10,530	9,980	10,490
6	10,810	10,440	10,270	10,410	10,280	10,460	11,180	11,170	11,060	10,500	9,960	10,480
7	10,800	10,420	10,260	10,410	10,270	10,450	11,170	12,740	11,040	10,470	9,940	10,450
8	10,790	10,420	10,260	10,400	10,270	10,440	11,160	12,700	11,010	10,450	9,990	10,460
9	10,770	10,410	e10,270	10,400	10,260	10,440	11,830	12,330	11,010	10,460	9,970	10,450
10	10,760	10,410	e10,310	10,390	10,260	10,440	15,200	12,050	11,000	10,440	9,960	10,470
11	10,740	10,410	10,460	10,390	10,250	10,430	14,000	11,840	10,960	10,410	10,030	10,470
12	10,720	10,400	10,460	10,390	10,250	10,420	13,050	11,690	10,950	10,390	10,010	10,470
13	10,700	10,390	10,470	10,390	10,250	10,420	12,520	11,620	10,940	10,390	9,990	10,470
14	10,720	10,380	10,480	10,380	10,210	10,440	12,170	11,540	10,910	10,390	10,020	10,440
15	10,710	10,350	10,470	10,380	10,260	10,420	11,950	11,470	10,900	10,370	10,070	10,430
16	10,690	10,350	10,460	10,390	10,390	10,400	11,790	11,420	10,870	10,350	10,040	10,410
17	10,670	10,350	10,460	10,360	10,490	10,550	11,680	11,390	10,850	10,350	10,020	10,390
18	10,650	10,340	10,470	10,380	10,500	11,700	11,580	11,360	10,830	10,330	10,660	10,380
19	10,640	10,340	10,460	10,350	10,510	11,820	11,510	11,330	10,840	10,300	10,750	10,370
20	10,620	10,350	10,460	10,350	10,500	11,720	11,460	11,300	10,820	10,290	10,750	10,350
21	10,600	10,320	10,460	10,350	10,500	11,630	11,420	11,270	10,810	10,260	10,740	10,340
22	10,590	10,300	10,440	10,350	10,500	11,560	11,400	11,240	10,780	10,250	10,720	10,330
23	10,580	10,290	10,450	10,340	10,510	11,490	11,410	11,230	10,760	10,220	10,720	10,320
24	10,560	10,280	10,440	10,340	10,500	11,430	11,370	11,200	10,740	10,200	10,710	10,310
25	10,540	10,300	10,450	10,340	10,480	11,410	11,340	11,190	10,720	10,180	10,690	10,300
26	10,540	10,300	10,440	10,330	10,480	11,380	11,330	11,180	10,690	10,160	10,670	10,290
27	10,530	10,290	10,440	10,330	10,480	11,360	11,280	11,180	10,670	10,130	10,660	10,280
28	10,520	10,280	10,440	10,330	10,480	11,320	11,250	11,150	10,650	10,100	10,640	10,270
29	10,510	10,270	10,440	10,320	10,470	11,300	11,230	11,120	10,640	10,110	10,630	10,250
30	10,500	10,280	10,440	10,310	---	11,280	11,200	11,110	10,620	10,110	10,620	10,240
31	10,480	---	10,430	10,300	---	11,290	---	11,090	---	10,090	10,600	---
Max	10,860	10,510	10,480	10,420	10,510	11,820	15,200	12,740	11,080	10,590	10,750	10,580
Min	10,480	10,270	10,260	10,300	10,210	10,400	11,160	11,090	10,620	10,090	9,940	10,240
Elevation, in feet, at end of month												
	1,198.70	1,198.46	1,198.64	1,198.49	1,198.69	1,199.69	1,199.58	1,199.45	1,198.88	1,198.23	1,198.85	1,198.41
Change in contents, in acre-ft												
	-350	-200	+150	-130	+170	+820	-90	-110	-470	-530	+510	-360

	Water Year 2008
Max	15,200
Min	9,940
Change in Contents, in Acre-ft	-590

07311415 Lake Frederick nr Frederick, OK—Continued