



Water-Data Report 2008

07315950 Moss Lake near Gainesville, TX

Red-Lake Texoma Basin
Farmers-Mud Subbasin

LOCATION.--Lat 33°46'26", long 97°12'50" referenced to North American Datum of 1927, Cooke County, TX, Hydrologic Unit 11130201, on upstream side of dam about 250 ft from right end of Fish Creek dam on Fish Creek, 1.6 mi upstream from Bearhead Creek, 3.7 mi upstream from mouth, and 10.0 mi northwest of Gainesville.

DRAINAGE AREA.--65.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1967 to current year.

PERIOD OF RECORD.-Water-Quality.--

CHEMICAL DATA: May 1968 to May 1984.

BIOCHEMICAL DATA: May 1968 to June 1973.

RADIOCHEMICAL DATA: Apr. 1981.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Apr. 20, 1979, recording gage at site about 150 ft upstream from same datum. Satellite telemeter at station.

COOPERATION.--Capacity Table No. 1, prepared by Freese, Nichols, and Endress, Consulting Engineers, Fort Worth, for the city of Gainesville, was replaced by Capacity Table No. 2. Table No. 2 was furnished by the Texas Water Development Board, and put into effect Oct. 27, 1999.

REMARKS.--Records good, except those for estimated daily mean contents, which are fair. 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, 1,460 ft long. The dam was completed and storage began Dec. 2, 1966. An uncontrolled morning-glory-type spillway with a 7- by 7-foot opening is designed to discharge 2,500 ft³/s at a 10-foot head. A 400-foot-wide spillway has been cut through natural ground, and is located about 100 ft to left of the left end of dam. The dam was built by the city of Gainesville to impound water for municipal use. Conservation pool storage is 24,155 acre-ft. Data regarding the dam is given in the following table:

	Elevation (feet)
Top of dam.....	740.0
Top of design flood pool.....	736.0
Crest of spillway.....	725.0
Crest of spillway morning-glory type (top of conservation pool).....	715.0
Lowest gated outlet (invert).....	666.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 50,990 acre-ft, Oct. 13, 1981, elevation, 733.72 ft; minimum contents since lake filled in May 1968, 11,490 acre-ft, Jan. 18, 1990, elevation, 702.08 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 26,230 acre-ft, Mar. 19, elevation, 717.03 ft; minimum contents, 22,240 acre-ft, Sept. 30, elevation, 713.19 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	23,260	22,840	22,660	22,660	22,580	22,660	24,080	23,960	24,130	23,550	22,760	22,660
2	23,240	22,830	22,660	22,650	22,580	22,670	24,060	23,950	24,080	23,520	22,730	22,620
3	23,260	22,830	22,640	22,650	22,590	22,830	24,060	23,930	24,040	23,490	22,700	22,580
4	23,250	22,820	22,640	22,650	22,600	22,890	24,070	23,920	23,980	23,470	22,670	22,540
5	23,230	22,810	22,630	22,660	22,610	22,900	24,060	23,920	23,930	23,460	22,640	22,510
6	23,220	22,780	22,620	22,670	22,600	22,910	24,050	23,970	23,890	23,430	22,600	22,490
7	23,220	22,760	22,620	22,680	22,590	22,930	24,040	24,000	23,870	23,400	22,580	22,470
8	23,200	22,750	22,620	22,680	22,580	22,930	24,030	24,000	23,850	23,370	22,610	22,450
9	23,180	22,750	22,610	22,670	22,580	22,940	24,030	23,990	23,830	23,350	22,600	22,460
10	23,160	22,750	22,600	22,670	22,570	23,200	24,810	23,990	23,830	23,350	22,590	22,490
11	23,140	22,750	22,630	22,660	22,570	23,310	24,740	23,960	23,820	23,320	22,600	22,530
12	23,120	22,740	22,690	22,650	22,580	23,340	24,510	23,940	23,790	23,280	22,590	22,520
13	23,090	22,740	22,710	22,650	22,580	23,360	24,370	23,930	23,760	23,250	22,570	22,530
14	23,070	22,730	22,720	22,650	22,570	23,370	24,270	23,950	23,740	23,230	22,550	22,550
15	23,070	22,700	22,740	22,650	22,560	23,380	24,220	23,960	23,720	23,210	22,600	22,510
16	23,060	22,680	22,730	22,640	22,650	23,380	24,170	23,950	23,700	23,200	22,600	22,480
17	23,060	22,670	22,720	22,630	22,700	23,380	24,150	23,940	23,730	23,180	22,580	22,460
18	23,040	22,660	22,720	22,620	22,700	24,780	24,140	23,930	23,770	23,150	22,580	22,450
19	23,010	22,660	22,720	22,610	22,700	25,890	24,110	23,920	23,760	23,110	22,700	22,430
20	22,990	22,660	22,720	22,600	22,700	25,140	24,090	23,900	23,750	23,090	22,820	22,410
21	22,970	22,650	22,720	22,600	22,700	24,740	24,090	23,890	23,730	23,060	22,840	22,400
22	22,990	22,620	22,720	22,600	22,700	24,520	24,080	23,880	23,710	23,040	22,830	22,390
23	e22,990	22,600	22,690	22,600	22,700	24,380	24,080	23,870	23,680	23,010	22,820	22,370
24	e22,940	22,590	22,690	22,600	22,690	24,290	24,090	23,860	23,660	22,980	22,810	22,350
25	22,920	22,650	22,690	22,600	22,700	24,230	24,070	23,850	23,630	22,950	22,780	22,340
26	22,910	22,670	22,690	22,610	22,680	24,190	24,050	23,840	23,610	22,920	22,760	22,320
27	22,890	22,660	22,690	22,610	22,670	24,170	24,030	24,290	23,580	22,880	22,750	22,310
28	22,880	22,660	22,690	22,610	22,670	24,130	24,020	24,570	23,550	22,850	22,730	22,290
29	22,880	22,650	22,680	22,620	22,660	24,110	24,000	24,390	23,580	22,810	22,710	22,270
30	22,870	22,640	22,680	22,600	---	24,110	23,980	24,270	23,570	22,780	22,700	22,250
31	22,860	---	22,680	22,600	---	24,110	---	24,180	---	22,780	22,670	---
Mean	23,060	22,710	22,680	22,630	22,630	23,720	24,150	24,000	23,780	23,180	22,680	22,450
Max	23,260	22,840	22,740	22,680	22,700	25,890	24,810	24,570	24,130	23,550	22,840	22,660
Min	22,860	22,590	22,600	22,600	22,560	22,660	23,980	23,840	23,550	22,780	22,550	22,250

	Calendar Year 2007	Water Year 2008
Mean	23,250	23,140
Max	26,630	25,890
Min	20,990	22,250

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