



Water-Data Report 2006

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. Water-quality records: Chemical data: Oct. 1969 to Sept. 1984.

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.--No estimated daily contents. Records good. 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, 27,460 acre-ft, April 29, elevation, 718.22 ft; minimum contents, 21,280 acre-ft, Sept. 30, elevation, 712.25 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	23,300	22,860	22,440	22,190	22,040	22,060	22,390	24,850	23,750	23,020	22,170	21,720
2	23,330	22,840	22,420	22,170	22,040	22,050	22,400	24,550	23,740	23,000	22,130	21,700
3	23,320	22,820	22,420	22,160	22,040	22,040	22,380	25,270	23,720	22,980	22,100	21,680
4	23,300	22,810	22,390	22,150	22,030	22,030	22,370	24,860	23,700	22,960	22,080	21,740
5	23,290	22,800	22,380	22,140	22,030	22,030	22,370	24,570	23,680	22,950	22,050	21,780
6	23,250	22,780	22,370	22,120	22,010	22,030	22,370	25,010	23,650	22,940	22,030	21,750
7	23,220	22,770	22,340	22,120	22,000	22,030	22,370	24,810	23,630	22,920	22,010	21,730
8	23,200	22,770	22,330	22,120	21,990	22,050	22,320	24,580	23,610	22,890	21,990	21,710
9	23,180	22,760	22,320	22,100	21,980	22,080	22,310	24,430	23,590	22,870	21,960	21,690
10	23,160	22,740	22,310	22,090	21,980	22,070	22,300	24,310	23,560	22,850	21,930	21,680
11	23,150	22,730	22,310	22,080	21,960	22,090	22,290	24,220	23,530	22,820	21,900	21,670
12	23,140	22,730	22,300	22,080	21,950	22,100	22,280	24,160	23,500	22,790	21,880	21,650
13	23,130	22,720	22,300	22,060	21,950	22,080	22,280	24,120	23,470	22,760	21,860	21,620
14	23,120	22,700	22,300	22,040	21,940	22,060	22,270	24,080	23,450	22,730	21,830	21,600
15	23,110	22,680	22,290	22,040	21,940	22,040	22,260	24,050	23,410	22,700	21,800	21,580
16	23,090	22,640	22,280	22,030	21,940	22,030	22,250	24,020	23,370	22,680	21,780	21,560
17	23,080	22,630	22,270	22,020	21,910	22,020	22,240	24,000	23,340	22,650	21,750	21,560
18	23,070	22,620	22,270	22,000	21,890	22,110	22,230	23,980	23,320	22,630	21,710	21,550
19	23,050	22,600	22,260	22,000	21,880	22,290	22,200	23,970	23,300	22,600	21,690	21,520
20	23,030	22,590	22,250	21,990	21,880	22,370	22,230	23,940	23,270	22,570	21,660	21,500
21	23,000	22,580	22,250	21,980	21,880	22,350	22,230	23,920	23,240	22,540	21,640	21,480
22	22,990	22,570	22,240	22,000	21,880	22,330	22,220	23,910	23,220	22,500	21,610	21,480
23	22,960	22,560	22,240	22,020	21,880	22,320	22,210	23,890	23,220	22,470	21,590	21,470
24	22,940	22,550	22,240	22,020	21,880	22,320	22,200	23,870	23,210	22,440	21,590	21,430
25	22,910	22,540	22,230	22,020	22,010	22,320	22,180	23,850	23,190	22,410	21,560	21,410
26	22,900	22,530	22,220	22,000	22,050	22,310	22,160	23,840	23,150	22,370	21,530	21,390
27	22,880	22,540	22,230	21,990	22,050	22,310	22,140	23,810	23,120	22,340	21,650	21,370
28	22,870	22,500	22,210	22,050	22,050	22,300	22,310	23,780	23,100	22,310	21,780	21,340
29	22,850	22,470	22,200	22,060	---	22,300	26,670	23,760	23,070	22,280	21,790	21,310
30	22,830	22,460	22,190	22,050	---	22,320	25,520	23,740	23,040	22,240	21,770	21,300
31	22,850	---	22,180	22,040	---	22,380	---	23,740	---	22,210	21,740	---
Mean	23,080	22,660	22,290	22,060	21,970	22,170	22,530	24,190	23,400	22,660	21,820	21,570
Max	23,330	22,860	22,440	22,190	22,050	22,380	26,670	25,270	23,750	23,020	22,170	21,780
Min	22,830	22,460	22,180	21,980	21,880	22,020	22,140	23,740	23,040	22,210	21,530	21,300

	Calendar Year 2005	Water Year 2006
Mean	23,530	22,540
Max	24,450	26,670
Min	22,180	21,300

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