



Water-Data Report TX-2005

07315950 Moss Lake near Gainesville, TX

Red River Basin

LOCATION.--Lat 33°46'26", long 97°12'50" referenced to North American Datum of 1927, Cooke County, 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.

WATER-STAGE 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.

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

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.

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, 25,450 acre-ft, Nov. 24, elevation, 716.26 ft; minimum contents, 22,780 acre-ft, Aug. 7, elevation, 713.71 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	23,250	23,540	24,440	24,060	24,110	24,130	24,020	23,910	24,080	23,520	22,950	23,780
2	23,260	23,550	24,360	24,070	24,110	24,120	24,010	23,890	24,090	23,500	22,920	23,760
3	23,240	23,620	24,300	24,130	24,110	24,120	24,010	23,890	24,070	23,470	22,890	23,740
4	23,290	23,620	24,250	24,160	24,110	24,120	24,000	23,920	24,040	23,450	22,870	23,710
5	23,310	23,610	24,230	24,340	24,100	24,120	24,000	23,940	24,060	23,470	22,850	23,690
6	23,310	23,610	24,250	24,450	24,230	24,120	23,980	23,940	24,100	23,450	22,830	23,660
7	23,310	23,600	24,470	24,380	24,330	24,110	23,980	23,940	24,090	23,430	22,820	23,640
8	23,300	23,590	24,420	24,320	24,300	24,100	23,980	23,940	24,060	23,420	22,910	23,620
9	23,290	23,580	24,360	24,270	24,260	24,090	23,980	23,940	24,040	23,390	23,030	23,590
10	23,460	23,580	24,290	24,240	24,220	24,070	23,980	23,940	24,010	23,360	23,010	23,570
11	23,530	23,560	24,240	24,220	24,200	24,070	23,980	23,930	23,980	23,340	22,990	23,540
12	23,520	23,540	24,210	24,210	24,190	24,060	23,960	23,920	23,970	23,320	22,970	23,530
13	23,510	23,540	24,170	24,180	24,200	24,040	23,950	23,940	23,940	23,300	22,950	23,510
14	23,490	23,530	24,130	24,150	24,180	24,030	23,950	23,960	23,920	23,290	23,440	23,490
15	23,480	23,540	24,120	24,130	24,160	24,030	23,950	23,950	23,910	23,290	23,710	23,500
16	23,460	23,560	24,110	24,110	24,130	24,020	23,950	23,940	23,890	23,270	24,070	23,520
17	23,440	23,770	24,100	24,090	24,110	24,020	23,950	23,930	23,870	23,250	24,450	23,500
18	23,440	24,190	24,090	24,090	24,100	24,030	23,940	23,920	23,850	23,230	24,290	23,480
19	23,420	24,220	24,080	24,090	24,120	24,020	23,940	23,910	23,830	23,230	24,180	23,460
20	23,410	24,200	24,070	24,090	24,130	24,020	23,950	23,900	23,800	23,200	24,100	23,440
21	23,400	24,180	24,050	24,090	24,120	24,040	23,960	23,900	23,780	23,170	24,050	23,430
22	23,410	24,190	24,040	24,070	24,110	24,030	23,950	23,890	23,760	23,150	24,010	23,410
23	23,440	24,330	24,040	24,060	24,100	24,010	23,930	23,870	23,730	23,130	23,980	23,390
24	23,410	25,220	24,030	24,050	24,090	24,020	23,920	23,860	23,700	23,100	23,950	23,360
25	23,410	24,950	24,030	24,060	24,090	24,020	23,940	23,850	23,680	23,070	23,920	23,340
26	23,420	24,650	24,030	24,050	24,100	24,030	23,970	23,840	23,660	23,030	23,900	23,320
27	23,420	24,470	24,040	24,050	24,140	24,040	23,970	23,820	23,630	23,050	23,890	23,300
28	23,420	24,350	24,040	24,060	24,140	24,040	23,960	23,830	23,600	23,030	23,870	23,280
29	23,420	24,460	24,050	24,080	---	24,040	23,940	23,890	23,580	23,010	23,840	23,240
30	23,410	24,550	24,050	24,090	---	24,040	23,920	23,890	23,550	22,990	23,820	23,210
31	23,430	---	24,060	24,100	---	24,030	---	23,890	---	22,970	23,800	---
Mean	23,400	23,960	24,170	24,150	24,150	24,060	23,960	23,910	23,880	23,250	23,520	23,500
Max	23,530	25,220	24,470	24,450	24,330	24,130	24,020	23,960	24,100	23,520	24,450	23,780
Min	23,240	23,530	24,030	24,050	24,090	24,010	23,920	23,820	23,550	22,970	22,820	23,210

	Calendar Year 2004	Water Year 2005
Mean	21,880	23,820
Max	26,020	25,220
Min	17,410	22,820

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