

Water-Data Report TX-2005

07344489 Lake Bob Sandlin near Mount Pleasant, TX

Red River Basin

LOCATION.--Lat 33°04'48", long 95°00'07" referenced to North American Datum of 1927, Titus County, Hydrologic Unit 11140305, in control room in left abutment of service spillway at left end of Fort Sherman Dam on Big Cypress Creek, 1.7 mi upstream from Tankersley Creek, 3.5 mi upstream from bridge on U.S. Highway 271, 5.7 mi southwest of the county courthouse in Mount Pleasant, and 129.2 mi upstream from mouth.

DRAINAGE AREA.--239 mi².

WATER-STAGE RECORDS

PERIOD OF RECORD.--Aug. 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Apr. 12, 1978, a nonrecording gage was located at same site and datum. Satellite telemeter at station.

REMARKS.--No estimated contents. Records good. The lake is formed by a rolled earthfill dam 10,800 ft long, including spillways. Deliberate impoundment began Aug. 8, 1977, and dam was completed by Apr. 1978. The spillway is an excavated channel cut through natural ground. The spillway is 4,500 ft wide, located to the left end of the dam. The service spillway is 289.5 ft wide with 160 ft of net flow width controlled by four 40- by 22.5-foot tainter gates. The dam was built, and is owned, maintained, and operated by the Titus County Fresh Water Supply District No. 1 to provide water for municipal use. Flow from 75.0 mi² above this station is controlled by Lake Cypress Springs on Big Cypress Creek and 36.0 mi² is controlled by Monticello Reservoir on Blundell Creek, a tributary to Big Cypress Creek. Conservation pool storage is 192,350 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	349.0
Crest of uncontrolled spillway.....	341.3
Crest of gated spillway.....	316.5
Lowest gated outlet (invert).....	294.5

COOPERATION.--Capacity Table 1-C was provided by URS/Forest and Cotton, Inc., Consulting Engineers. Capacity Table 2-C, provided by the U.S. Army Corps of Engineers, was put into effect Oct. 1, 1996. Capacity Table 3-C, provided by the Texas Water Development Board, was put into effect Oct. 1, 2000.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 224,400 acre-ft, Nov. 5, 1994, elevation, 338.65 ft; minimum contents after initial filling, 133,100 acre-ft, Nov. 25, 1982, elevation, 327.92 ft, using Table 1-C.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 205,700 acre-ft, Mar. 31, elevation, 337.61 ft; minimum contents, 169,100 acre-ft, Sept. 24, elevation, 333.38 ft.

07344489 Lake Bob Sandlin near Mount Pleasant, TX—Continued

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	191,300	192,800	194,800	195,100	199,200	203,600	204,700	203,400	197,200	187,600	181,600	175,800
2	191,300	193,000	194,800	195,200	199,600	203,600	204,600	203,200	197,000	187,300	181,400	175,500
3	191,100	193,200	194,800	195,600	199,600	203,600	204,500	203,000	196,700	187,000	181,200	175,200
4	191,400	192,800	194,700	195,700	199,600	203,700	204,400	202,900	196,400	186,800	180,900	174,900
5	191,500	192,700	195,100	196,000	199,600	203,800	204,300	202,700	196,000	187,100	180,700	174,500
6	191,300	192,600	195,500	196,100	199,900	203,900	204,400	202,400	195,700	187,100	180,400	174,200
7	191,300	192,400	196,000	196,800	200,500	204,000	204,200	202,300	195,300	186,900	180,300	173,800
8	191,500	192,300	196,100	197,500	200,600	204,000	204,000	202,300	195,000	186,800	180,500	173,500
9	191,300	192,200	196,200	197,700	200,800	204,100	203,900	202,300	194,600	186,600	180,300	173,200
10	191,500	192,100	196,200	197,800	200,800	204,000	203,800	202,100	194,200	186,500	180,100	172,900
11	191,800	192,100	196,000	197,900	200,800	204,000	204,000	201,900	193,900	186,400	179,800	172,700
12	191,800	191,800	195,900	198,200	200,800	204,000	204,000	201,700	193,500	186,400	179,500	172,400
13	191,700	191,600	195,800	199,000	201,100	203,900	203,900	201,500	193,200	186,300	179,200	172,200
14	191,600	191,400	195,700	199,000	201,100	203,700	203,800	201,300	192,800	186,100	179,000	171,900
15	191,200	191,300	195,600	199,000	201,200	203,500	203,700	201,000	192,400	186,000	178,800	171,700
16	191,000	191,300	195,500	199,100	201,100	203,500	203,700	200,700	192,200	185,900	178,600	171,400
17	191,000	191,500	195,500	199,000	201,100	203,500	203,700	200,400	192,200	185,800	178,300	171,100
18	191,100	192,000	195,500	199,000	201,100	203,400	203,600	200,100	192,100	185,500	178,100	170,900
19	191,000	192,000	195,400	199,000	201,100	203,300	203,600	199,900	191,900	185,200	177,700	170,600
20	190,900	192,000	195,400	199,000	201,300	203,100	203,500	199,700	191,700	185,000	177,400	170,400
21	190,900	192,100	195,200	199,000	201,400	203,100	203,500	199,500	191,400	184,800	177,200	170,100
22	191,000	193,100	195,500	199,000	201,400	203,400	203,500	199,300	191,100	184,500	176,900	169,900
23	191,700	193,900	195,800	198,900	201,900	203,100	203,300	199,100	190,800	184,300	176,600	169,700
24	191,600	194,600	195,800	198,900	202,700	202,900	203,000	198,800	190,300	184,000	176,300	170,500
25	191,700	194,400	195,700	198,900	203,100	202,800	202,900	198,500	190,000	183,700	176,100	172,000
26	191,800	194,300	195,600	198,800	203,200	202,900	204,000	198,300	189,600	183,500	176,000	171,600
27	191,800	194,500	195,500	198,700	203,500	203,900	203,900	198,000	189,200	183,200	175,800	171,300
28	191,800	194,200	195,400	198,700	203,600	204,400	204,000	197,700	188,700	182,700	176,100	171,100
29	191,800	194,400	195,200	198,800	---	204,500	203,800	197,700	188,300	182,500	176,600	170,800
30	192,300	194,900	195,200	198,800	---	204,600	203,600	197,500	187,900	182,200	176,500	170,500
31	192,600	---	195,100	199,200	---	204,500	---	197,300	---	181,900	176,100	---
Mean	191,500	192,800	195,500	198,000	201,100	203,700	203,900	200,500	192,700	185,300	178,500	172,200
Max	192,600	194,900	196,200	199,200	203,600	204,600	204,700	203,400	197,200	187,600	181,600	175,800
Min	190,900	191,300	194,700	195,100	199,200	202,800	202,900	197,300	187,900	181,900	175,800	169,700

	Calendar Year 2004	Water Year 2005
Mean	197,800	192,900
Max	210,000	204,700
Min	178,800	169,700

07344489 Lake Bob Sandlin near Mount Pleasant, TX—Continued

