



Water-Data Report 2010

08025350 Toledo Bend Reservoir near Burkeville, TX

Sabine Basin
Toledo Bend Reservoir Subbasin

LOCATION.--Lat 31°11'46", long 93°34'19" referenced to North American Datum of 1927, Sabine Parish, LA, Hydrologic Unit 12010004, prior to Sept. 20, 2007, in powerhouse at right end of Toledo Bend Dam on Sabine River, 15 mi northeast of Burkeville and at mile 156.5.

DRAINAGE AREA.--7,178 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1966 to current year.

PERIOD OF RECORD, Water-Quality.--

- CHEMICAL DATA: May 1968 to July 1976.
BIOCHEMICAL DATA: May 1968 to July 1976.
BIOLOGICAL DATA: Dec. 1975 to July 1976.
PESTICIDE DATA: Dec. 1975 to July 1976.

PERIOD OF RECORD, Water-Quality.--

- CHEMICAL DATA: May 1968 to July 1976.
PESTICIDE DATA: Feb. 1976 to Apr. 1976.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Sabine River Authority). Prior to July 20, 1967, nonrecording gage at powerhouse 1.6 mi south of present site and at same datum. July 20, 1967, to June 30, 1973, recording gage at same site and datum. July 1, 1973, to Sept. 20, 2007, recording gage at powerhouse 1.6 mi south of present site and at same datum. Satellite telemeter at station.

COOPERATION.--Capacity table furnished by the Sabine River Authority.

REMARKS.--Records good. The reservoir is formed by a rolled earthfill dam. Closure of embankment completed and deliberate impoundment began Oct. 3, 1966. The reservoir is operated for hydro-electric power generation and water conservation. Releases during high inflow periods are controlled by eleven 40 x 28-foot tainter gates. An 8.33 x 12-foot gated conduit through the dam is used for low-flow releases. Two additional 20-inch-diameter conduits, that bypass the larger conduit, may also be used for low-flow releases. Water for turbines is admitted through four 16.75 x 29-foot penstocks and controlled by vertically operated caterpillar-type gates. The dam is owned by the Sabine River Authority. The capacity table is based on U.S. Geological Survey topographic maps. There are many diversions above station for oil field operations and municipal supply. Conservation pool storage is 4,472,900 acre-ft. Data regarding the dam are given in the following table:

Table with 2 columns: Description and Elevation (feet). Rows include Top of dam (185.0), Design flood (175.3), Top of gates (173.0), Top of power drawdown storage (172.0), Top of power head storage (162.2), Crest of spillway (145.0), and Lowest gated outlet (100.0).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 4,840,000 acre-ft, May 18, 1989, elevation, 173.95 ft; minimum since initial filling of reservoir in June 1968, 2,791,000 acre-ft, Oct. 10, 2006, elevation, 161.26 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 4,737,000 acre-ft, Oct. 31, elevation, 173.41 ft; minimum contents, 3,293,000 acre-ft, Sep. 29-30, elevation, 164.80 ft.

## 08025350 Toledo Bend Reservoir near Burkeville, TX—Continued

**RESERVOIR STORAGE, ACRE FEET**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep						
1	3,863,000	4,713,000	4,356,000	4,355,000	3,872,000	4,451,000	4,213,000	4,233,000	4,065,000	3,894,000	3,796,000	3,672,000						
2	3,903,000	4,668,000	4,353,000	4,337,000	3,899,000	4,503,000	4,183,000	4,249,000	4,053,000	3,884,000	3,792,000	3,672,000						
3	3,887,000	4,620,000	4,343,000	4,330,000	3,918,000	4,519,000	4,191,000	4,247,000	4,051,000	3,876,000	3,786,000	3,696,000						
4	3,890,000	4,596,000	4,331,000	4,331,000	3,951,000	4,535,000	4,160,000	4,247,000	4,056,000	3,866,000	3,782,000	3,699,000						
5	3,897,000	4,583,000	4,298,000	4,304,000	3,991,000	4,544,000	4,143,000	4,228,000	4,038,000	3,868,000	3,774,000	3,691,000						
6	3,886,000	4,568,000	4,275,000	4,276,000	4,008,000	4,555,000	4,140,000	4,211,000	4,036,000	3,864,000	3,773,000	3,679,000						
7	3,900,000	4,577,000	4,279,000	4,301,000	4,004,000	4,547,000	4,161,000	4,203,000	4,033,000	3,865,000	3,770,000	3,685,000						
8	3,882,000	4,588,000	4,257,000	4,281,000	4,005,000	4,527,000	4,201,000	4,227,000	4,023,000	3,865,000	3,764,000	3,688,000						
9	3,903,000	4,598,000	4,262,000	4,244,000	4,068,000	4,531,000	4,194,000	4,203,000	4,019,000	3,865,000	3,764,000	3,684,000						
10	3,924,000	4,588,000	4,237,000	4,215,000	4,063,000	4,531,000	4,199,000	4,172,000	3,999,000	3,862,000	3,763,000	3,676,000						
11	3,923,000	4,561,000	4,210,000	4,189,000	4,075,000	4,549,000	4,214,000	4,171,000	3,991,000	3,858,000	3,763,000	3,647,000						
12	3,933,000	4,542,000	4,198,000	4,172,000	4,116,000	4,550,000	4,221,000	4,153,000	3,984,000	3,855,000	3,756,000	3,618,000						
13	3,939,000	4,536,000	4,188,000	4,142,000	4,130,000	4,540,000	4,221,000	4,164,000	3,987,000	3,844,000	3,749,000	3,588,000						
14	3,988,000	4,539,000	4,177,000	4,119,000	4,165,000	4,524,000	4,223,000	4,163,000	3,992,000	3,842,000	3,742,000	3,550,000						
15	4,013,000	4,546,000	4,213,000	4,103,000	4,190,000	4,520,000	4,226,000	4,162,000	3,992,000	3,840,000	3,742,000	3,516,000						
16	4,041,000	4,571,000	4,228,000	4,094,000	4,198,000	4,505,000	4,231,000	4,167,000	3,989,000	3,835,000	3,741,000	3,484,000						
17	4,050,000	4,569,000	4,230,000	4,068,000	4,215,000	4,495,000	4,237,000	4,172,000	3,987,000	3,820,000	3,747,000	3,450,000						
18	4,049,000	4,557,000	4,214,000	4,040,000	4,229,000	4,481,000	4,245,000	4,173,000	3,983,000	3,814,000	3,736,000	3,418,000						
19	4,052,000	4,548,000	4,197,000	4,026,000	4,243,000	4,447,000	4,250,000	4,151,000	3,977,000	3,818,000	3,732,000	3,384,000						
20	4,068,000	4,547,000	4,169,000	4,011,000	4,260,000	4,434,000	4,246,000	4,142,000	3,972,000	3,821,000	3,723,000	3,351,000						
21	4,084,000	4,555,000	4,137,000	4,007,000	4,272,000	4,427,000	4,239,000	4,141,000	3,969,000	3,812,000	3,723,000	3,319,000						
22	4,138,000	4,541,000	4,109,000	3,997,000	4,308,000	4,407,000	4,226,000	4,124,000	3,957,000	3,798,000	3,724,000	3,312,000						
23	4,203,000	4,517,000	4,094,000	3,977,000	4,323,000	4,379,000	4,225,000	4,118,000	3,941,000	3,788,000	3,721,000	3,308,000						
24	4,220,000	4,505,000	4,155,000	3,965,000	4,343,000	4,358,000	4,244,000	4,119,000	3,942,000	3,794,000	3,722,000	3,313,000						
25	4,232,000	4,486,000	4,255,000	3,945,000	4,343,000	4,368,000	4,256,000	4,114,000	3,932,000	3,794,000	3,718,000	3,315,000						
26	4,294,000	4,464,000	4,290,000	3,923,000	4,367,000	4,347,000	4,256,000	4,111,000	3,916,000	3,792,000	3,712,000	3,324,000						
27	4,404,000	4,425,000	4,317,000	3,898,000	4,401,000	4,304,000	4,267,000	4,106,000	3,905,000	3,799,000	3,703,000	3,315,000						
28	4,464,000	4,396,000	4,328,000	3,876,000	4,414,000	4,320,000	4,244,000	4,099,000	3,903,000	3,799,000	3,691,000	3,304,000						
29	4,516,000	4,371,000	4,326,000	3,890,000		---	4,292,000	4,210,000	4,086,000	3,906,000	3,804,000	3,685,000	3,299,000					
30	4,643,000	4,389,000	4,335,000	3,892,000		---	4,263,000	4,222,000	4,068,000	3,904,000	3,802,000	3,674,000	3,295,000					
31	4,719,000		---	4,343,000	3,872,000		---	4,234,000		---	4,067,000		---	---	3,798,000	3,678,000		---
<b>Mean</b>	4,094,000	4,542,000	4,249,000	4,103,000	4,156,000	4,451,000	4,216,000	4,161,000	3,983,000	3,833,000	3,740,000	3,498,000						
<b>Max</b>	4,719,000	4,713,000	4,356,000	4,355,000	4,414,000	4,555,000	4,267,000	4,249,000	4,065,000	3,894,000	3,796,000	3,699,000						
<b>Min</b>	3,863,000	4,371,000	4,094,000	3,872,000	3,872,000	4,234,000	4,140,000	4,067,000	3,903,000	3,788,000	3,674,000	3,295,000						

	Calendar Year 2009	Water Year 2010
<b>Mean</b>	4,155,000	4,085,000
<b>Max</b>	4,719,000	4,719,000
<b>Min</b>	3,794,000	3,295,000

08025350 Toledo Bend Reservoir near Burkeville, TX—Continued

