# 08043000 Bridgeport Reservoir above Bridgeport, TX

Upper Trinity Basin
Upper West Fork Trinity Subbasin

LOCATION.--Lat 33°13′22″, long 97°49′54″ referenced to North American Datum of 1927, Wise County, TX, Hydrologic Unit 12030101, in brick valve house on upstream side and near left end of Bridgeport Dam on West Fork Trinity River, 4.6 mi west of Bridgeport, 13.0 mi upstream from Big Sandy Creek and at mile 626.

DRAINAGE AREA.--1,111 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--October, 1943 to current year.

Water-quality records: Chemical data: October, 1969 to September, 1984.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Jan. 12, 1988, nonrecording gages at various sites in vicinity of present gage at present datum. Satellite telemeter at station.

COOPERATION.--Capacity table No. 5-C dated Oct. 1, 1988, was provided by Tarrant Regional Water District.

REMARKS.--Records good except for estimated daily contents, which are fair. The reservoir is formed by a rolled earthfill dam 2,040 ft long. The dam was completed in Dec. 1931 and storage began Apr. 1, 1932. The original dam was 1,900 ft long, but was lengthened to 2,040 ft in 1971-72. The original service spillway was eliminated during construction (1971-72),and a new spillway with approach and discharge channels was built through natural ground 2,800 ft from the left end of dam. The new spillway is 90 ft wide and has eight vertical lift gates that are 11.25 x 22-ft. The controlled outlet works consist of a 48-in diameter and an 18-in diameter pipe encased in a concrete conduit extending through the dam. In addition, a controlled 60-in diameter steel pipe extends through the service spillway wall to the spillway discharge basin. The dam is owned by the Tarrant Regional Water District. For elevations of outlet works, see table below. Capacity tables are based on surveys made in 1956 and 1968. Conservation pool storage is 374,836 acre-ft. Data regarding the dam are given in the following table:

| | Elevation (feet) |
|---|---|
| Top of dam | 874.0 |
| Crest of spillway | 866.0 |
| Top of gates | 842.0 |
| Top of conservation pool | 836.9 |
| Sill of gates | 820.0 |
| Lowest value outlet (invert) | 751.4 |

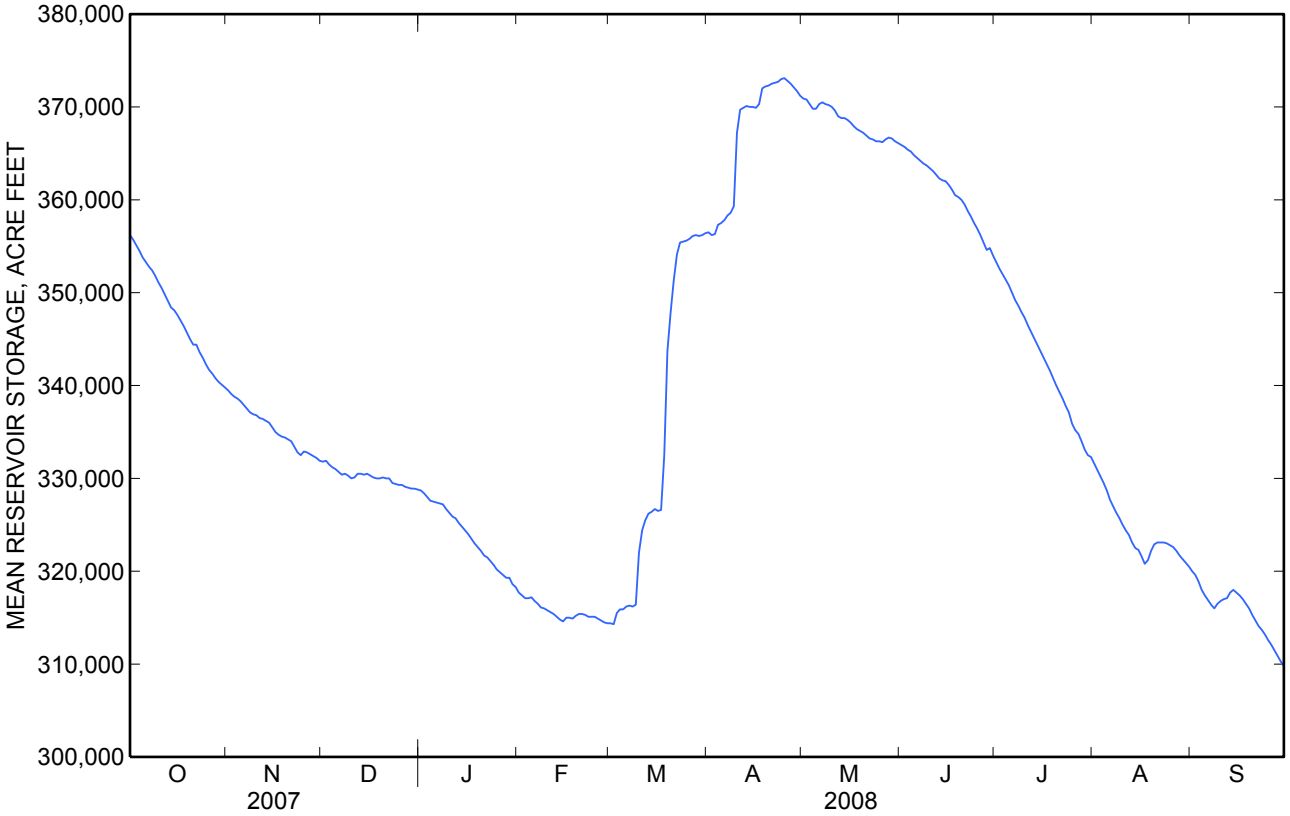
EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 491,700 acre-ft, May 5, 1990, elevation, 844.36 ft; minimum contents observed since first appreciable storage in 1935, 7,170 acre-ft, Oct. 12-16, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 373,600 acre-ft, Apr. 23, elevation, 836.61 ft; minimum contents, 309,400 acre-ft, Sept. 30, elevation, 830.97 ft.

**08043000 Bridgeport Reservoir above Bridgeport, TX—Continued**

**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 | 356,200 | 339,500 | 331,800 | 328,700 | 317,700 | 314,400 | 356,500 | 370,900 | 365,900 | 353,300 | 331,600 | 320,000 |
| 2 | 355,700 | e339,100 | 331,900 | 328,400 | 317,400 | 314,300 | 356,200 | 370,800 | 365,700 | 352,600 | 330,900 | 319,600 |
| 3 | 355,100 | 338,800 | 331,500 | 328,000 | 317,100 | 315,500 | 356,300 | 370,300 | 365,400 | 352,000 | 330,200 | 318,900 |
| 4 | 354,500 | 338,600 | 331,200 | 327,600 | 317,100 | 315,900 | 357,300 | 369,800 | e365,200 | 351,400 | 329,500 | 318,000 |
| 5 | 353,800 | 338,300 | 331,000 | 327,500 | 317,200 | 315,900 | 357,500 | 369,800 | e364,800 | 350,800 | 328,700 | 317,400 |
| 6 | 353,300 | 337,900 | 330,700 | 327,400 | 316,800 | 316,200 | 357,800 | 370,300 | 364,500 | 350,000 | 327,700 | 316,900 |
| 7 | 352,800 | 337,500 | 330,400 | 327,300 | 316,500 | 316,300 | 358,300 | 370,500 | 364,200 | 349,200 | 327,000 | 316,400 |
| 8 | 352,400 | 337,100 | 330,500 | 327,200 | 316,100 | 316,200 | 358,600 | 370,300 | 363,900 | 348,600 | 326,300 | 316,000 |
| 9 | 351,800 | 336,900 | 330,300 | 326,700 | 316,000 | 316,400 | 359,300 | 370,200 | 363,700 | 347,900 | 325,700 | 316,500 |
| 10 | 351,100 | 336,800 | 330,000 | 326,300 | 315,800 | 322,000 | 367,200 | 370,000 | 363,400 | 347,300 | 325,000 | 316,800 |
| 11 | 350,500 | 336,500 | 330,100 | 325,900 | 315,600 | 324,400 | 369,700 | 369,600 | 363,100 | 346,500 | 324,400 | 317,000 |
| 12 | 349,800 | 336,400 | 330,500 | 325,700 | 315,400 | 325,500 | 369,900 | 369,000 | 362,700 | 345,800 | 323,900 | 317,100 |
| 13 | 349,100 | 336,200 | 330,500 | 325,200 | 315,100 | 326,200 | 370,100 | 368,800 | 362,300 | 345,100 | 323,100 | 317,700 |
| 14 | 348,400 | 336,000 | 330,400 | 324,800 | 314,800 | 326,400 | 370,000 | 368,800 | 362,100 | 344,400 | 322,500 | 318,000 |
| 15 | 348,100 | 335,500 | 330,500 | 324,400 | 314,600 | 326,700 | 370,000 | 368,600 | 362,000 | 343,700 | 322,300 | 317,700 |
| 16 | 347,600 | 335,000 | 330,300 | 324,000 | 315,000 | 326,500 | 369,900 | 368,300 | 361,600 | 343,000 | 321,600 | 317,400 |
| 17 | 347,000 | 334,700 | 330,100 | 323,500 | 315,000 | 326,600 | 370,300 | 367,900 | 361,100 | 342,300 | 320,800 | 317,000 |
| 18 | 346,400 | 334,500 | 330,000 | 323,000 | 314,900 | 332,500 | 372,000 | 367,600 | 360,500 | 341,600 | 321,200 | 316,500 |
| 19 | 345,700 | 334,400 | 330,000 | 322,600 | 315,200 | 343,700 | 372,200 | 367,400 | 360,300 | 340,800 | 322,200 | 316,000 |
| 20 | 345,000 | 334,200 | 330,100 | 322,200 | 315,400 | 347,800 | 372,300 | 367,200 | 360,000 | 340,000 | 322,900 | 315,300 |
| 21 | 344,400 | 334,000 | 330,000 | 321,700 | 315,400 | 351,300 | 372,500 | 366,900 | 359,500 | 339,300 | 323,100 | 314,700 |
| 22 | 344,400 | 333,400 | 330,000 | 321,500 | 315,300 | 354,100 | 372,600 | 366,600 | 358,800 | 338,600 | 323,100 | 314,100 |
| 23 | 343,600 | 332,800 | 329,500 | 321,100 | 315,100 | 355,400 | 372,700 | 366,500 | 358,200 | 337,800 | 323,100 | 313,700 |
| 24 | 343,000 | 332,500 | 329,400 | 320,700 | 315,100 | 355,500 | 373,000 | 366,300 | 357,500 | 337,100 | 323,000 | 313,200 |
| 25 | 342,300 | 332,900 | 329,300 | 320,200 | 315,100 | 355,600 | 373,100 | 366,300 | 356,900 | 335,900 | 322,800 | 312,600 |
| 26 | 341,700 | 332,800 | 329,300 | 319,900 | 314,900 | 355,800 | 372,800 | 366,200 | 356,200 | 335,200 | 322,600 | 312,100 |
| 27 | 341,300 | 332,600 | 329,100 | 319,600 | 314,700 | 356,100 | 372,500 | 366,500 | 355,400 | 334,800 | 322,200 | 311,500 |
| 28 | 340,800 | 332,400 | 329,000 | 319,300 | 314,500 | 356,200 | 372,100 | 366,700 | 354,600 | 334,000 | 321,700 | 310,900 |
| 29 | 340,400 | 332,200 | 328,900 | 319,300 | 314,400 | 356,100 | 371,700 | 366,600 | 354,800 | 333,100 | 321,300 | 310,300 |
| 30 | 340,100 | 331,900 | 328,900 | 318,600 | --- | 356,200 | 371,200 | 366,300 | 354,000 | 332,500 | 320,900 | 309,800 |
| 31 | 339,800 | --- | 328,800 | 318,300 | --- | 356,400 | --- | 366,100 | --- | 332,300 | 320,500 | --- |
| Mean | 347,600 | 335,400 | 330,100 | 323,800 | 315,600 | 334,800 | 367,200 | 368,300 | 360,900 | 342,800 | 324,300 | 315,600 |
| Max | 356,200 | 339,500 | 331,900 | 328,700 | 317,700 | 356,400 | 373,100 | 370,900 | 365,900 | 353,300 | 331,600 | 320,000 |
| Min | 339,800 | 331,900 | 328,800 | 318,300 | 314,400 | 314,300 | 356,200 | 366,100 | 354,000 | 332,300 | 320,500 | 309,800 |

| | Calendar Year 2007 | Water Year 2008 |
|---|---|---|
| Mean | 299,900 | 338,900 |
| Max | 396,200 | 373,100 |
| Min | 187,000 | 309,800 |

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