Water-Data Report 2012

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.--Apr. 1932 to current year. Prior to Oct. 1950, month end figures only.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Jan. 1964 to May 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. 6, based on a volumetric survey by the Texas Water Development Board in Apr. 2000, was provided by the Tarrant Regional Water District and used beginning Oct. 2003.

REMARKS.--Records good. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically. 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. Conservation pool storage is 366,240 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	836.0
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, 310,600 acre-ft, Apr. 8, 10, elevation, 831.08 ft; minimum contents, 220,900 acre-ft, Oct. 8, elevation, 822.09 ft.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 08043000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/08043000.2012.pdf

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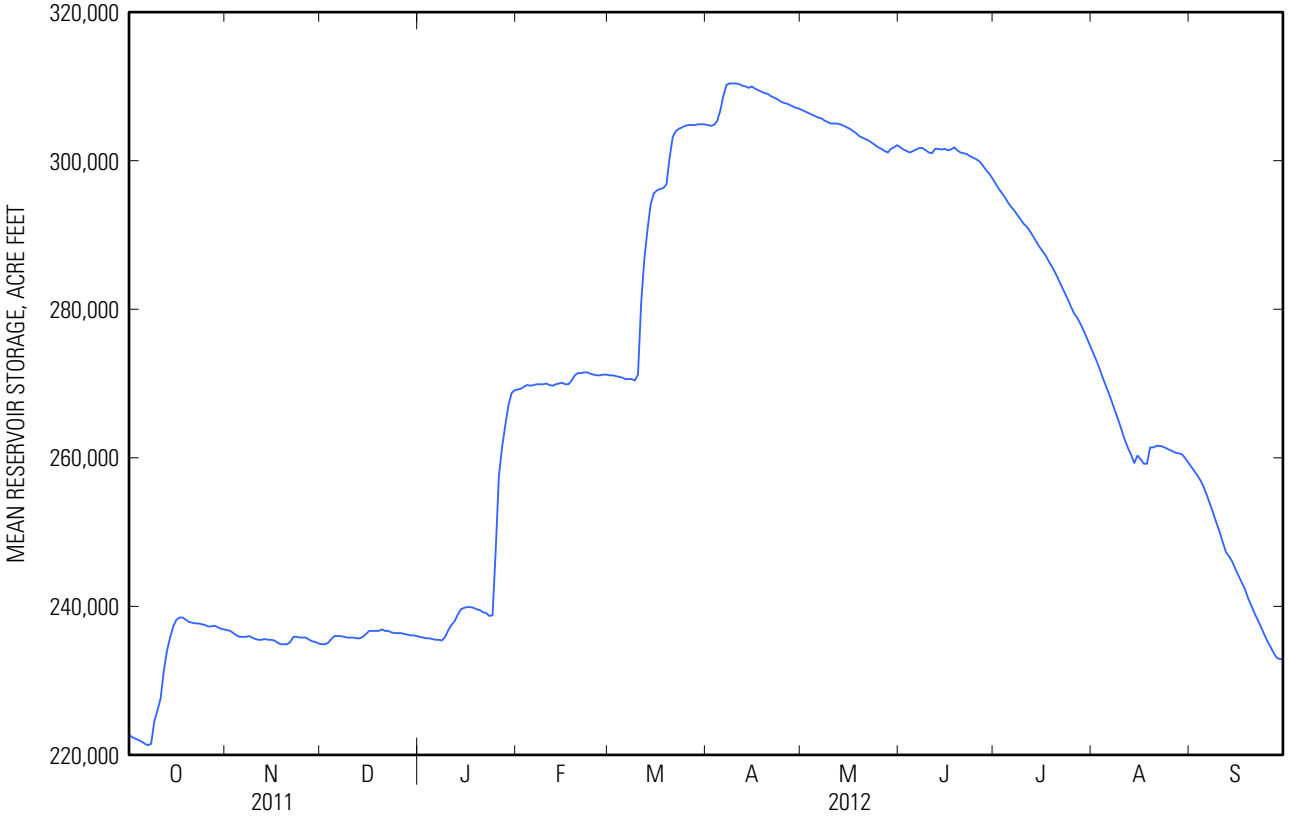
RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	222,700	236,800	234,900	235,900	269,200	271,100	304,800	306,800	301,800	297,000	274,100	258,800
2	222,400	236,700	234,900	235,800	269,300	271,100	304,700	306,600	301,500	296,300	273,100	258,200
3	222,200	236,400	235,100	235,700	269,600	271,000	304,800	306,400	301,300	295,700	272,000	257,600
4	222,000	236,100	235,600	235,700	269,800	270,900	305,300	306,200	301,100	295,100	270,800	256,900
5	221,800	235,900	236,000	235,600	269,700	270,800	306,700	306,000	301,300	294,400	269,700	256,000
6	221,500	235,900	236,000	235,500	269,800	270,600	308,700	305,800	301,500	293,800	268,600	254,900
7	221,300	235,900	236,000	235,500	269,900	270,600	310,200	305,700	301,700	293,300	267,400	253,700
8	221,500	236,000	235,900	235,400	269,900	270,600	310,400	305,400	301,700	292,700	266,200	252,500
9	224,500	235,800	235,800	235,900	269,900	270,400	310,400	305,200	301,400	292,100	265,000	251,200
10	226,000	235,600	235,800	236,800	270,000	271,200	310,400	305,000	301,100	291,500	263,700	250,000
11	227,600	235,500	235,800	237,500	269,800	280,800	310,300	305,000	301,000	291,100	262,400	248,600
12	231,300	235,500	235,700	238,000	269,700	286,700	310,100	305,000	301,600	290,500	261,300	247,300
13	234,000	235,600	235,700	238,900	269,900	290,700	310,000	304,900	301,600	289,800	260,400	246,700
14	235,800	235,500	235,900	239,600	270,000	294,100	309,800	304,700	301,500	289,100	259,300	246,000
15	237,300	235,500	236,300	239,800	270,100	295,600	310,000	304,500	301,600	288,400	260,300	245,000
16	238,200	235,400	236,700	239,900	269,900	296,000	309,700	304,300	301,400	287,800	259,800	244,100
17	238,500	235,100	236,700	239,900	269,900	296,200	309,500	304,000	301,500	287,200	259,200	243,200
18	238,500	234,900	236,700	239,800	270,400	296,300	309,300	303,700	301,800	286,400	259,200	242,300
19	238,200	234,900	236,700	239,600	271,100	296,800	309,100	303,300	301,400	285,700	261,400	241,100
20	237,900	234,900	236,900	239,500	271,400	300,400	309,000	303,100	301,100	284,900	261,400	240,100
21	237,800	235,200	236,700	239,200	271,400	303,200	308,700	302,900	301,000	284,000	261,600	239,100
22	237,700	235,900	236,700	239,100	271,500	304,000	308,500	302,700	300,900	283,100	261,600	238,200
23	237,700	235,900	236,500	238,700	271,500	304,300	308,300	302,400	300,600	282,200	261,500	237,300
24	237,600	235,800	236,400	238,800	271,300	304,500	308,000	302,100	300,400	281,300	261,300	236,300
25	237,500	235,800	236,400	247,600	271,200	304,700	307,800	301,800	300,200	280,300	261,100	235,400
26	237,300	235,800	236,400	257,500	271,100	304,800	307,700	301,600	299,900	279,400	260,900	234,600
27	237,300	235,500	236,300	261,400	271,100	304,800	307,500	301,300	299,400	278,800	260,700	233,800
28	237,400	235,300	236,200	264,300	271,200	304,800	307,300	301,100	298,800	278,000	260,600	233,100
29	237,200	235,200	236,100	267,000	271,200	304,900	307,100	301,600	298,300	277,100	260,500	232,900
30	237,000	235,000	236,100	268,700	---	304,900	307,000	301,800	297,700	276,100	260,000	232,900
31	236,900	---	236,000	269,100	---	304,900	---	302,100	---	275,100	259,400	---
Mean	232,100	235,600	236,100	243,300	270,400	290,100	308,400	304,000	300,900	287,000	263,400	244,900
Max	238,500	236,800	236,900	269,100	271,500	304,900	310,400	306,800	301,800	297,000	274,100	258,800
Min	221,300	234,900	234,900	235,400	269,200	270,400	304,700	301,100	297,700	275,100	259,200	232,900

	Calendar Year 2011	Water Year 2012
Mean	278,600	267,900
Max	330,300	310,400
Min	221,300	221,300

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