Water-Data Report 2012

08063010 Cedar Creek Reservoir near Trinidad, TX

Upper Trinity Basin
Cedar Subbasin

LOCATION.--Lat 32°14′35″, long 96°08′26″ referenced to North American Datum of 1927, Henderson County, TX, Hydrologic Unit 12030107, inside pumphouse on lower level, 1,000 ft north of spillway, 5.5 mi upstream from Joe B. Hogsett Dam on Cedar Creek, and 8.0 mi northwest of Trinidad.

DRAINAGE AREA.--1,007 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1965 to current year.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Dec. 1969 to Sept. 1977.
BIOCHEMICAL DATA: Dec. 1969 to Sept. 1977.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to May 15, 1972, at unfinished pumphouse at same site and datum. May 16, 1972 to Sept. 8, 1975, at site 0.25 mi north and upstream from pumphouse at same datum. Satellite telemeter at station.

COOPERATION.--Records of diversions are maintained by the Tarrant Regional Water District. Capacity Table 1-C was provided by Freese and Nichols, consulting engineers for the Tarrant Regional Water District. A new capacity table, Table 2-C, provided by the Texas Water Development Board was put in effect Oct. 1, 1995.

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 17,539 ft long. The spillway is located on the right bank 5.5 mi upstream from the dam and discharges into the Trinity River through a cut channel 2.0 mi long. Deliberate impoundment began July 2, 1965, and the dam was completed in Feb. 1966. The spillway is 474 ft long and has eight 40 by 24 ft radial gates and two automatically operated 40 by 8.5 ft hinged gates. Low-flow releases may be made downstream through a 5.0 foot diameter conduit through the dam. The dam is the property of Tarrant Regional Water District and was built for municipal and industrial supply and for recreational purposes. Water is diverted from the reservoir for municipal and industrial uses by lakeside developments and by the cities of Arlington, Fort Worth, Mansfield, Kemp, Trinidad, and Mabank. Conservation pool storage is 637,050 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	340.0
Top of radial gates	325.0
Top of automatic gates	322.5
Crest of spillway (automatic gates)	314.0
Crest of spillway (radial gates)	302.0
Lowest gated outlet (invert)	263.5

Water-quality records available from Jan. 1977 to Aug. 1985, June 1998 and July 2006 were published separately as:

Site ID	Site name
321113096041201	Cedar Ck Res Site AC nr Trinidad, TX
321116096035301	Cedar Ck Res Site AL nr Trinidad, TX
321111096042901	Cedar Ck Res Site AR nr Trinidad, TX
321227096032701	Cedar Ck Res Site BC nr Trinidad, TX
321403096060601	Cedar Ck Res Site CC nr Trinidad, TX
321548096082301	Cedar Ck Res Site DC nr Trinidad, TX
321818096064301	Cedar Ck Res Site EC nr Trinidad, TX
321843096101701	Cedar Ck Res Site FC nr Trinidad, TX
322119096095401	Cedar Ck Res Site GC nr Trinidad, TX
322119096104901	Cedar Ck Res Site GR nr Trinidad, TX

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 08063010, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/08063010.2012.pdf

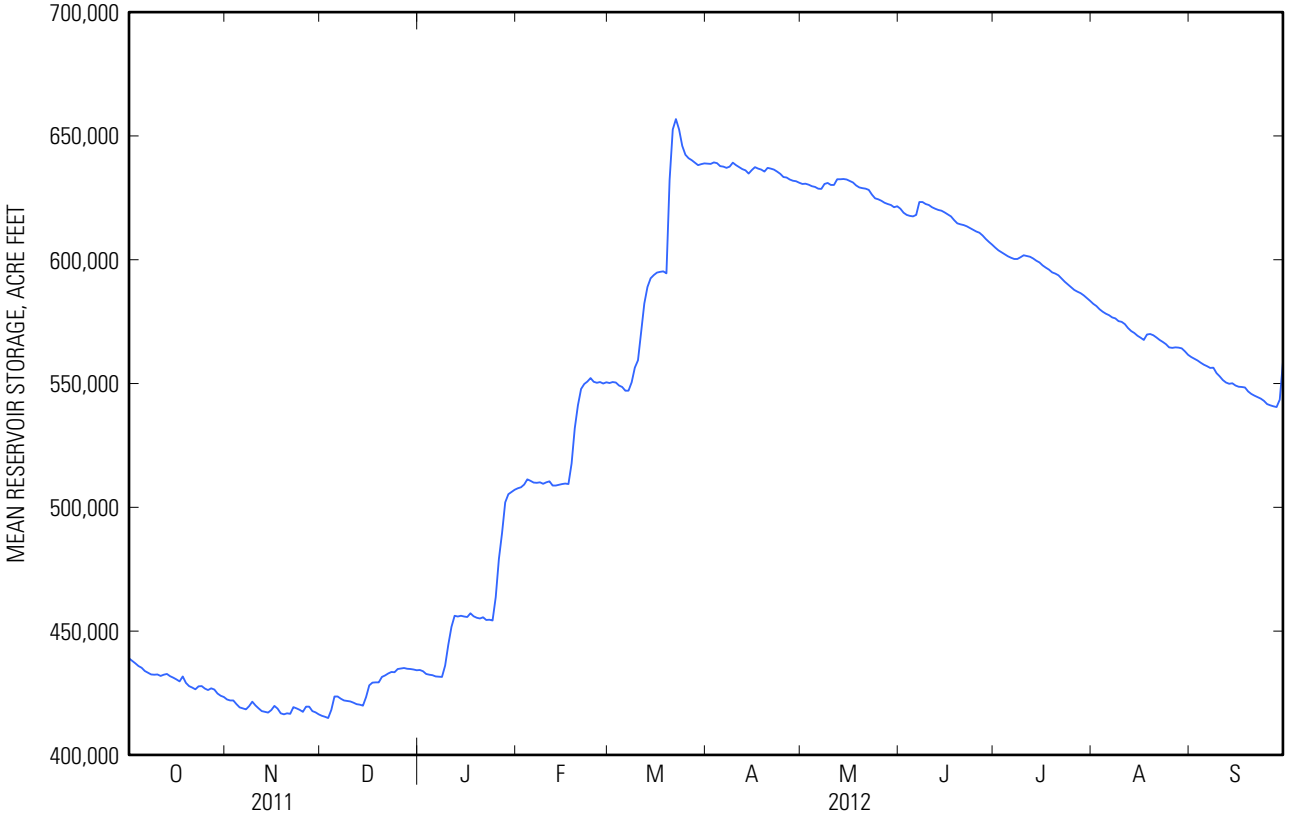
08063010 Cedar Creek Reservoir near Trinidad, TX—Continued

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 722,000 acre-ft, June 4, 1973, elevation, 323.24 ft; minimum contents since first appreciable storage in 1966, 332,900 acre-ft, Mar. 19, 1967, elevation, 309.42 ft. Maximum elevation, 323.30 ft, 680,800 acre-ft, June 10, 2010.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 659,500 acre-ft, Mar. 22, elevation, 322.68 ft; minimum contents, 413,500 acre-ft, Dec. 3, elevation, 314.13 ft.

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	439,000	422,400	415,800	434,300	507,700	550,200	638,800	630,600	620,600	604,900	582,200	560,700
2	438,000	422,000	415,400	433,800	508,100	550,600	638,700	630,700	619,000	603,800	581,300	560,000
3	437,000	422,000	414,900	432,700	509,200	550,400	639,300	630,300	618,100	603,000	580,000	559,300
4	435,900	420,500	418,200	432,400	511,300	549,200	639,000	629,700	617,700	602,200	579,000	558,400
5	435,200	419,200	423,600	432,200	510,700	548,600	637,800	629,400	617,500	601,400	578,200	557,600
6	433,900	418,800	423,600	431,700	510,000	547,100	637,600	628,700	618,100	600,800	577,600	557,000
7	433,200	418,400	422,700	431,600	509,900	547,100	637,100	628,600	623,300	600,300	576,700	556,300
8	432,500	419,700	422,000	431,500	510,100	550,500	637,600	630,600	e623,300	600,300	576,300	556,400
9	432,400	421,500	421,800	436,100	509,500	556,400	639,200	631,000	e622,500	601,000	575,200	554,200
10	432,500	420,000	421,600	444,500	510,100	559,400	638,200	630,200	e622,100	601,800	574,900	552,900
11	431,900	418,800	421,100	451,700	510,500	570,800	637,400	630,200	e621,200	601,500	574,000	551,400
12	432,400	417,700	420,500	456,200	508,800	582,300	636,600	632,500	e620,600	601,200	572,400	550,400
13	432,700	417,400	420,300	455,900	508,800	589,000	636,100	632,500	e620,100	600,500	571,200	549,900
14	431,800	417,100	419,900	456,200	509,100	592,500	634,800	632,600	619,800	599,600	570,400	550,100
15	431,200	418,100	423,400	455,900	509,400	593,800	636,200	632,400	619,100	598,900	569,300	549,200
16	430,500	419,800	428,100	455,700	509,600	594,800	637,400	631,800	618,300	597,700	568,500	548,700
17	429,700	418,700	429,200	457,200	509,400	595,100	636,800	631,200	617,500	596,800	567,600	548,600
18	431,700	416,800	429,300	456,000	517,700	595,300	636,400	630,000	616,000	596,000	569,800	548,400
19	429,100	416,400	429,300	455,400	531,900	594,500	635,600	629,200	614,700	594,900	570,000	546,800
20	427,800	416,800	431,500	455,100	541,200	632,200	637,100	628,900	614,300	594,400	569,500	545,800
21	427,200	416,600	432,100	455,600	547,800	652,600	636,800	628,700	614,000	593,700	568,600	545,100
22	426,500	419,300	432,900	454,500	549,800	656,800	636,400	628,200	613,500	592,400	567,600	544,500
23	427,700	418,800	433,500	454,600	550,800	652,600	635,600	626,300	612,800	591,100	566,800	543,900
24	427,800	418,200	433,400	454,300	552,200	646,000	634,700	624,800	612,100	590,000	565,900	543,000
25	426,800	417,400	434,700	463,700	550,700	642,400	633,400	624,400	611,400	588,900	564,600	541,700
26	426,200	419,500	434,900	479,100	550,300	641,000	633,200	623,800	610,900	587,800	564,400	541,200
27	426,900	419,500	435,100	489,600	550,600	640,200	632,400	623,000	609,800	587,100	564,600	540,800
28	426,400	417,700	434,800	502,000	550,000	639,200	631,900	622,500	608,400	586,500	564,500	540,500
29	424,800	417,200	434,700	505,300	550,500	638,200	631,700	622,100	607,200	585,600	564,200	543,500
30	423,900	416,400	434,500	506,200	---	638,600	631,100	621,200	606,100	584,500	563,000	558,500
31	423,400	---	434,200	507,100	---	638,900	---	621,600	---	583,400	561,600	---
Mean	430,500	418,800	426,700	457,000	524,300	597,900	636,200	628,300	616,300	595,900	571,000	550,200
Max	439,000	422,400	435,100	507,100	552,200	656,800	639,300	632,600	623,300	604,900	582,200	560,700
Min	423,400	416,400	414,900	431,500	507,700	547,100	631,100	621,200	606,100	583,400	561,600	540,500

	Calendar Year 2011	Water Year 2012
Mean	499,500	537,600
Max	565,800	656,800
Min	414,900	414,900

08063010 Cedar Creek Reservoir near Trinidad, TX—Continued