

08123600 Champion Creek Reservoir near Colorado City, TX

Upper Colorado Basin
Colorado Headwaters Subbasin

LOCATION.--Lat 32°16'53", long 100°51'30" referenced to North American Datum of 1927, Mitchell County, TX, Hydrologic Unit 12080002, 50 ft downstream from service outlet structure at Champion Creek Dam on Champion Creek, 1.0 mi upstream from mouth, 4.8 mi downstream from State Highway 208, and 7.2 mi south of Colorado City.

DRAINAGE AREA.--207 mi² of which 21 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1959 to Sept. 1987 and May 1997 to Sept. 2002 (contents), Oct. 2002 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Mar. 1964 to Aug. 1965, Aug. 1967, Dec. 1969 to Dec. 1972, Mar. 1974 to Dec. 1977, Jan. 1979 to Nov. 1980, Aug. 1982 to May 1984.

BIOCHEMICAL DATA: Mar. 1964 to Aug. 1965, Aug. 1967, Dec. 1969 to Dec. 1972.

REVISED RECORDS.--WRD TX-81-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Sept. 29, 1959, nonrecording gage at same site and datum. Satellite telemeter at station.

COOPERATION.--Record of diversions into Lake Colorado City may be obtained from Texas Utilities Electric Co.

REMARKS.--Record fair. Some records listed in the period of record may not be available electronically. The reservoir is formed by a rolled earthfill dam about 6,800 ft long. The dam was completed on Apr. 30, 1959. Closure and storage began in February 1959. The capacity curve is based on U.S. Geological Survey topographic map surveyed in 1950: excavation for borrow, estimated not to exceed 1,200 acre-ft, is not included. The dam and reservoir are owned and operated by the Texas Electric Service Company. Water may be pumped from the reservoir through a 24-inch pipeline to Lake Colorado City (station 08123000) for municipal use and for cooling operations of a steam generating powerplant. There are two spillways. The uncontrolled emergency spillway, 450 ft wide and 800 ft long, is located at the right end of dam. The controlled service spillway is a cut channel 50 ft wide, about 1,800 ft long and 8 ft deep, and cut into the emergency spillway at the extreme right end. There is a controlled drop-inlet structure, 4.0 by 5.0 ft, with a side opening of 1.5 by 3.0 ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	2,109.0
Design flood.....	2,104.0
Crest of emergency spillway.....	2,091.0
Crest of service spillway.....	2,082.4
Lowest gated outlet (invert).....	2,020.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 47,060 acre-ft, June 29, 1982, elevation, 2,085.79 ft; minimum contents, 1,720 acre-ft, Apr. 11-15, 1971, elevation, 2,026.75 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,047.13 ft, Oct. 4; minimum elevation, 2,041.32 ft, Sept. 30.

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ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,047.05	2,046.64	2,046.34	2,046.22	2,046.07	2,045.93	2,045.59	2,044.93	2,044.33	---	2,042.66	2,042.02
2	2,047.05	2,046.61	2,046.33	2,046.20	---	2,045.93	2,045.58	2,044.88	2,044.29	---	2,042.63	2,041.99
3	2,047.03	2,046.59	2,046.33	2,046.20	2,046.04	2,045.91	2,045.56	2,044.87	2,044.25	---	2,042.60	2,041.97
4	2,047.02	2,046.54	2,046.32	2,046.21	2,046.03	2,045.91	2,045.54	2,044.84	2,044.22	---	2,042.57	2,041.93
5	2,046.98	---	---	2,046.20	2,046.03	2,045.89	2,045.50	2,044.83	2,044.20	---	2,042.55	2,041.89
6	2,046.97	---	2,046.29	2,046.19	2,046.03	2,045.87	2,045.48	2,044.81	2,044.17	---	2,042.52	2,041.86
7	2,046.96	---	2,046.30	2,046.19	2,046.04	2,045.86	2,045.46	2,044.80	2,044.14	2,043.28	2,042.48	2,041.83
8	2,046.93	---	2,046.29	2,046.19	2,046.03	2,045.85	2,045.45	2,044.79	2,044.11	2,043.26	2,042.45	2,041.79
9	2,046.91	2,046.53	2,046.28	2,046.19	2,046.04	2,045.83	2,045.44	2,044.77	2,044.08	2,043.23	2,042.42	2,041.77
10	2,046.90	2,046.49	2,046.28	2,046.19	2,046.04	2,045.82	2,045.42	2,044.75	2,044.04	2,043.21	2,042.39	2,041.75
11	2,046.89	2,046.48	2,046.27	2,046.17	2,046.04	2,045.80	2,045.40	2,044.74	2,044.00	2,043.17	2,042.37	2,041.73
12	2,046.88	2,046.50	2,046.26	2,046.16	2,046.03	2,045.78	2,045.37	2,044.72	2,043.96	2,043.15	2,042.45	2,041.71
13	2,046.86	---	2,046.25	2,046.15	2,046.03	2,045.78	2,045.35	2,044.70	2,043.93	2,043.12	2,042.49	2,041.69
14	2,046.85	---	2,046.24	2,046.15	2,046.02	2,045.77	2,045.33	2,044.67	2,043.89	2,043.09	2,042.49	2,041.68
15	2,046.83	---	2,046.24	2,046.15	2,046.02	2,045.76	2,045.30	2,044.64	2,043.86	2,043.06	2,042.47	2,041.65
16	2,046.81	---	2,046.23	2,046.16	2,046.02	2,045.75	2,045.26	2,044.62	2,043.83	2,043.04	2,042.44	2,041.62
17	2,046.81	2,046.48	---	2,046.16	2,046.02	2,045.75	2,045.24	2,044.60	2,043.79	2,043.06	2,042.41	2,041.61
18	2,046.78	2,046.46	2,046.21	2,046.15	2,046.02	2,045.75	2,045.22	2,044.58	2,043.76	2,043.04	2,042.39	2,041.59
19	2,046.81	2,046.45	2,046.21	2,046.14	2,046.02	2,045.76	2,045.20	2,044.55	2,043.71	2,043.03	2,042.36	2,041.57
20	2,046.82	2,046.44	2,046.20	2,046.13	2,046.03	2,045.74	2,045.19	2,044.61	2,043.68	2,043.00	2,042.32	2,041.54
21	2,046.80	2,046.44	2,046.21	2,046.12	2,046.03	2,045.74	2,045.17	2,044.60	2,043.66	2,042.97	2,042.30	2,041.52
22	2,046.77	2,046.44	2,046.21	2,046.11	2,046.01	2,045.73	2,045.16	2,044.58	2,043.63	2,042.93	2,042.27	2,041.52
23	2,046.79	2,046.43	2,046.18	2,046.11	2,046.00	2,045.71	2,045.15	2,044.58	2,043.60	2,042.90	2,042.24	2,041.50
24	2,046.79	2,046.44	---	2,046.10	2,046.00	2,045.69	2,045.13	2,044.56	2,043.56	2,042.88	2,042.21	2,041.48
25	2,046.78	2,046.43	---	2,046.09	2,045.98	2,045.68	2,045.11	2,044.52	2,043.53	2,042.85	2,042.20	2,041.46
26	2,046.75	2,046.40	2,046.25	2,046.09	2,045.97	2,045.67	2,045.08	2,044.49	2,043.51	2,042.82	2,042.19	2,041.44
27	2,046.74	2,046.39	2,046.24	2,046.08	2,045.97	2,045.65	2,045.04	2,044.46	2,043.49	2,042.79	2,042.17	2,041.43
28	2,046.70	2,046.37	2,046.24	2,046.08	2,045.95	2,045.63	2,045.01	2,044.43	---	2,042.76	2,042.15	2,041.40
29	2,046.70	2,046.37	2,046.25	2,046.08	---	2,045.63	2,044.96	2,044.39	---	2,042.73	2,042.12	2,041.39
30	2,046.68	2,046.35	2,046.24	2,046.07	---	2,045.61	2,044.95	2,044.36	---	2,042.71	2,042.09	2,041.36
31	2,046.65	---	2,046.23	2,046.07	---	2,045.60	---	2,044.35	---	2,042.68	2,042.05	---
Mean	2,046.85	---	---	2,046.14	---	2,045.77	2,045.29	2,044.65	---	---	2,042.37	2,041.66
Max	2,047.05	---	---	2,046.22	---	2,045.93	2,045.59	2,044.93	---	---	2,042.66	2,042.02
Min	2,046.65	---	---	2,046.07	---	2,045.60	2,044.95	2,044.35	---	---	2,042.05	2,041.36

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