



Water-Data Report 2007

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.--October 1959 to September 1987 and May 1997 to September 2002 (contents), October 2002 to current year. Water-quality records: Chemical data: August 1967 to May 1984.

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 good. Interruptions in the record were due to malfunction of the instrument and occasional electronic spikes. 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 recorded elevation, 2,051.86 ft, Aug. 25-27; minimum recorded elevation, 2,040.11 ft, Dec. 13-19.

08123600 Champion Creek Reservoir near Colorado City, TX—Continued

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,040.64	2,040.48	2,040.20	2,040.20	2,040.28	2,040.25	2,042.06	2,042.23	2,043.82	2,043.59	2,043.47	2,051.82
2	2,040.62	2,040.46	2,040.20	2,040.19	2,040.28	2,040.22	2,042.11	2,042.30	2,043.83	2,043.58	2,043.91	2,051.81
3	2,040.60	2,040.45	2,040.18	2,040.20	2,040.28	2,040.22	2,042.14	2,042.44	2,043.84	2,043.57	2,044.03	2,051.80
4	2,040.59	2,040.44	2,040.17	2,040.22	2,040.28	2,040.20	2,042.14	2,042.47	2,043.83	2,043.56	2,044.04	2,051.80
5	2,040.57	2,040.44	2,040.16	2,040.22	2,040.28	2,040.20	2,042.12	2,042.49	2,043.81	2,043.55	2,044.04	2,051.79
6	2,040.56	2,040.44	2,040.16	2,040.21	2,040.28	2,040.20	2,042.12	2,042.49	2,043.79	2,043.54	2,044.03	2,051.78
7	2,040.54	2,040.42	2,040.15	2,040.20	2,040.29	2,040.20	2,042.11	2,042.49	2,043.78	2,043.52	2,044.02	2,051.77
8	2,040.53	2,040.42	2,040.14	2,040.19	2,040.28	2,040.19	2,042.11	2,042.52	2,043.77	2,043.51	2,044.01	2,051.76
9	2,040.53	2,040.41	2,040.14	2,040.19	2,040.28	2,040.20	2,042.12	2,042.93	2,043.74	2,043.49	2,044.00	2,051.77
10	2,040.55	2,040.40	2,040.13	2,040.18	2,040.28	2,040.20	2,042.14	2,043.49	2,043.74	2,043.54	2,043.99	2,051.76
11	2,040.53	2,040.38	2,040.13	2,040.18	2,040.29	2,040.28	2,042.14	2,043.73	2,043.74	2,043.53	2,043.97	2,051.74
12	2,040.53	2,040.36	2,040.12	2,040.19	2,040.30	2,040.47	2,042.13	2,043.78	2,043.74	2,043.51	2,043.97	2,051.73
13	2,040.50	2,040.36	2,040.12	2,040.21	2,040.31	2,040.55	2,042.13	2,043.80	2,043.74	2,043.51	2,043.95	2,051.72
14	2,040.50	2,040.35	2,040.12	---	2,040.29	2,040.58	2,042.11	2,043.81	2,043.73	2,043.53	2,043.93	2,051.71
15	2,040.55	2,040.33	2,040.12	2,040.19	2,040.28	2,040.60	2,042.10	2,043.82	2,043.71	2,043.53	2,043.92	2,051.70
16	2,040.67	2,040.30	2,040.11	2,040.18	2,040.28	2,040.60	2,042.09	2,043.82	2,043.70	2,043.51	2,043.91	2,051.69
17	2,040.68	2,040.29	2,040.11	2,040.18	2,040.28	2,040.60	2,042.09	2,043.82	2,043.69	2,043.49	2,043.96	2,051.67
18	2,040.68	2,040.28	2,040.12	2,040.18	2,040.27	2,040.60	2,042.09	2,043.84	2,043.68	2,043.47	2,045.35	2,051.68
19	2,040.65	2,040.28	2,040.14	2,040.20	2,040.27	2,040.60	2,042.09	2,043.85	2,043.67	2,043.45	2,051.07	2,051.73
20	2,040.64	2,040.26	2,040.19	2,040.25	2,040.27	2,040.60	2,042.08	2,043.85	2,043.70	2,043.43	2,051.74	2,051.73
21	2,040.64	2,040.26	2,040.19	2,040.27	2,040.27	2,040.61	2,042.08	2,043.86	2,043.69	2,043.42	2,051.81	2,051.71
22	2,040.61	2,040.25	2,040.18	2,040.26	2,040.27	2,040.62	2,042.08	2,043.87	2,043.68	2,043.41	2,051.84	2,051.70
23	2,040.59	2,040.24	2,040.18	2,040.26	2,040.27	2,040.62	2,042.07	2,043.86	2,043.67	2,043.40	2,051.84	2,051.70
24	2,040.58	2,040.24	2,040.18	2,040.27	2,040.27	2,040.62	2,042.08	2,043.87	2,043.66	2,043.39	2,051.84	2,051.68
25	2,040.59	2,040.24	2,040.17	2,040.27	2,040.25	2,040.62	2,042.07	2,043.86	2,043.64	2,043.38	2,051.85	2,051.66
26	2,040.59	2,040.23	2,040.16	2,040.27	2,040.25	2,040.77	2,042.05	2,043.87	2,043.62	2,043.37	2,051.86	2,051.66
27	2,040.56	2,040.23	2,040.16	2,040.27	2,040.26	2,040.93	2,042.04	2,043.87	2,043.63	2,043.36	2,051.85	2,051.65
28	2,040.54	2,040.23	2,040.16	2,040.27	2,040.25	2,040.96	2,042.04	2,043.86	2,043.62	2,043.37	2,051.84	2,051.64
29	2,040.53	2,040.22	2,040.19	2,040.27	---	2,041.01	2,042.06	2,043.86	2,043.61	2,043.36	2,051.84	2,051.62
30	2,040.51	2,040.21	2,040.21	2,040.28	---	2,041.13	2,042.20	2,043.86	2,043.60	2,043.35	2,051.84	2,051.61
31	2,040.50	---	2,040.20	2,040.27	---	2,041.79	---	2,043.84	---	2,043.37	2,051.83	---
Mean	2,040.58	2,040.33	2,040.16	---	2,040.28	2,040.56	2,042.10	2,043.43	2,043.72	2,043.47	2,047.28	2,051.72
Max	2,040.68	2,040.48	2,040.21	---	2,040.31	2,041.79	2,042.20	2,043.87	2,043.84	2,043.59	2,051.86	2,051.82
Min	2,040.50	2,040.21	2,040.11	---	2,040.25	2,040.19	2,042.04	2,042.23	2,043.60	2,043.35	2,043.47	2,051.61

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