



Water-Data Report 2011

08123000 Lake Colorado City near Colorado City, TX

Upper Colorado Basin
Colorado Headwaters Subbasin

LOCATION.--Lat 32°20'41", long 100°55'10" referenced to North American Datum of 1927, Mitchell County, TX, Hydrologic Unit 12080002, on left bank at municipal water-intake structure, 1.7 mi upstream from Colorado City Dam on Morgan Creek, 2.2 mi downstream from the Texas and Pacific Railway Co. bridge, 2.5 mi upstream from mouth, and 4.0 mi southwest of Colorado City.

DRAINAGE AREA.--345 mi² of which 43 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Apr. 1949 to Sept. 2002 (contents), Oct. 2002 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Mar. 1964 to Dec. 1964, Dec. 1969 to Nov. 1981, Apr. 1983 to May 1984.

BIOCHEMICAL DATA: Mar. 1964 to Dec. 1964, Dec. 1969 to Nov. 1973.

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

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Aug. 23, 1950, nonrecording gages at or near powerplant about 0.7 mi downstream at same datum. Satellite telemeter at station.

COOPERATION.--Record of diversions for municipal use can be obtained from the city of Colorado City.

REMARKS.--Records fair. Interruptions in the record were due to malfunction of the instrument. Some records listed in the period of record may not be available electronically. The lake is formed by a rolled earthfill dam 4,800 ft long. Storage began in April 1949, and the dam was completed in September 1949. The dam and lake are owned by the Texas Electric Service Co. to operate their thermal electric powerplant. The uncontrolled spillway is an excavated cut channel through natural ground 1,200 ft wide located 600 ft upstream and to the left of left end of dam. The spillway is designed to discharge 150,000 ft³/s at the maximum design flood elevation. The service spillway is an uncontrolled rectangular drop inlet located 100 ft upstream from dam with two uncontrolled openings of 10.0 by 12.0 ft. The spillway is designed for a maximum discharge of 5,000 ft³/s. A service outlet is provided for small releases downstream through a 30-inch valve-controlled concrete pipe. Record of pumpage from Champion Creek Reservoir (station 08123600), into Lake Colorado City can be obtained from the Texas Electric Service Co. Data regarding the dam are given in the following table:

	Elevation (feet)
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Top of dam.....	2,090.0
Design flood.....	2,086.7
Crest of spillway.....	2,073.7
Crest of service spillway.....	2,069.6
Lowest gated outlet (invert).....	2,024.3

EXTREMES FOR PERIOD OF RECORD.--Apr. 1949 to Sept. 2002: Maximum contents, 40,280 acre-ft, Sept. 7, 1962; minimum contents after initial filling, 9,740 acre-ft, Aug. 30, 31 and Sept. 1, 1953; Apr. 1949 to current year: Maximum elevation, 2,075.10 ft, Sept. 7, 1962; minimum elevation, 2,051.30 ft, Aug. 30, 31 and Sept. 1, 1953.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2,058.35 ft, Oct. 1; minimum elevation, 2,052.51 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	2,058.35	2,057.89	2,057.51	2,057.34	2,057.15	2,056.93	2,056.58	2,055.87	2,055.28	2,054.39	2,053.91	2,053.16
2	2,058.33	2,057.88	2,057.50	2,057.33	2,057.12	2,056.93	2,056.57	2,055.85	2,055.24	---	2,053.88	2,053.14
3	2,058.31	2,057.84	2,057.50	2,057.33	2,057.10	2,056.92	2,056.57	2,055.84	2,055.20	---	2,053.85	2,053.11
4	2,058.29	2,057.82	2,057.49	2,057.33	2,057.10	2,056.91	2,056.53	2,055.82	2,055.18	---	2,053.82	2,053.08
5	2,058.27	2,057.81	2,057.47	2,057.32	2,057.09	2,056.89	2,056.50	2,055.80	2,055.16	---	2,053.80	2,053.04
6	2,058.25	2,057.79	2,057.47	2,057.32	2,057.09	2,056.88	2,056.48	2,055.79	2,055.13	---	2,053.77	2,053.01
7	2,058.24	2,057.78	2,057.46	2,057.31	2,057.09	2,056.87	2,056.46	2,055.78	2,055.10	---	2,053.73	2,052.98
8	2,058.23	2,057.77	2,057.45	2,057.31	2,057.09	2,056.86	2,056.44	2,055.76	2,055.08	---	2,053.71	2,052.95
9	2,058.22	2,057.76	2,057.44	2,057.30	2,057.08	2,056.83	2,056.43	2,055.75	2,055.07	---	2,053.68	2,052.93
10	2,058.20	2,057.76	2,057.43	2,057.30	2,057.06	2,056.82	2,056.41	2,055.72	2,055.04	---	2,053.65	2,052.91
11	2,058.19	2,057.75	2,057.42	2,057.28	2,057.06	2,056.81	2,056.38	2,055.71	2,055.01	---	2,053.62	2,052.89
12	2,058.18	2,057.75	2,057.41	---	2,057.05	2,056.80	2,056.36	2,055.68	2,054.97	---	2,053.64	2,052.87
13	2,058.16	2,057.73	2,057.40	---	2,057.05	2,056.78	2,056.34	2,055.65	2,054.93	---	2,053.62	2,052.86
14	2,058.14	2,057.72	2,057.39	2,057.26	2,057.04	2,056.77	2,056.32	2,055.61	2,054.89	---	2,053.61	2,052.83
15	2,058.13	2,057.71	2,057.39	2,057.26	2,057.04	2,056.76	2,056.28	2,055.59	2,054.87	2,054.23	2,053.60	2,052.80
16	2,058.12	2,057.70	2,057.38	2,057.26	2,057.04	2,056.77	2,056.25	2,055.58	2,054.84	2,054.22	2,053.57	2,052.80
17	2,058.10	2,057.68	2,057.37	2,057.26	2,057.04	2,056.76	2,056.23	2,055.55	2,054.80	2,054.29	2,053.55	2,052.79
18	2,058.09	2,057.66	2,057.36	2,057.25	2,057.03	2,056.74	2,056.21	2,055.53	2,054.76	2,054.27	2,053.53	2,052.78
19	2,058.10	2,057.66	2,057.36	2,057.25	2,057.04	2,056.77	2,056.18	2,055.51	2,054.72	2,054.25	2,053.50	2,052.75
20	2,058.09	2,057.65	2,057.36	2,057.23	2,057.05	2,056.76	2,056.16	2,055.56	2,054.68	2,054.22	2,053.47	2,052.73
21	2,058.08	2,057.64	2,057.34	2,057.22	2,057.04	2,056.76	2,056.15	2,055.54	2,054.65	2,054.19	2,053.44	2,052.71
22	2,058.08	2,057.64	2,057.33	2,057.20	2,057.02	2,056.76	2,056.14	2,055.53	2,054.63	2,054.16	2,053.41	2,052.69
23	2,058.06	2,057.62	2,057.33	2,057.20	2,057.02	2,056.72	2,056.12	2,055.53	2,054.60	2,054.14	2,053.39	2,052.67
24	2,058.05	2,057.62	2,057.39	2,057.19	2,057.01	2,056.70	2,056.09	2,055.50	2,054.57	2,054.11	2,053.36	2,052.65
25	2,058.02	2,057.59	2,057.39	2,057.18	2,056.99	2,056.70	2,056.09	2,055.45	2,054.53	2,054.09	2,053.34	2,052.64
26	2,057.99	2,057.58	2,057.39	2,057.17	2,056.98	2,056.67	2,056.05	2,055.42	2,054.49	2,054.06	2,053.34	2,052.62
27	2,057.98	2,057.56	2,057.38	2,057.17	2,056.99	2,056.66	2,056.02	2,055.39	2,054.46	2,054.03	2,053.32	2,052.60
28	2,057.95	2,057.55	2,057.38	2,057.16	2,056.94	2,056.64	2,055.99	2,055.37	2,054.43	2,054.00	2,053.29	2,052.59
29	2,057.93	2,057.54	2,057.38	2,057.16	---	2,056.62	2,055.95	2,055.35	2,054.41	2,053.97	2,053.27	2,052.57
30	2,057.92	2,057.52	2,057.37	2,057.16	---	2,056.61	2,055.93	2,055.32	2,054.40	2,053.96	2,053.23	2,052.52
31	2,057.91	---	2,057.36	2,057.15	---	2,056.60	---	2,055.30	---	2,053.93	2,053.19	---
Mean	2,058.13	2,057.70	2,057.41	---	2,057.05	2,056.77	2,056.27	2,055.60	2,054.84	---	2,053.55	2,052.82
Max	2,058.35	2,057.89	2,057.51	---	2,057.15	2,056.93	2,056.58	2,055.87	2,055.28	---	2,053.91	2,053.16
Min	2,057.91	2,057.52	2,057.33	---	2,056.94	2,056.60	2,055.93	2,055.30	2,054.40	---	2,053.19	2,052.52

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