



Water-Data Report 2011

08177400 Coletto Creek Reservoir near Victoria, TX

Guadalupe Basin
Lower Guadalupe Subbasin

LOCATION.--Lat 28°43'51", long 97°09'53" referenced to North American Datum of 1927, Victoria County, TX, Hydrologic Unit 12100204, on right upstream end of spillway of dam on Coletto Creek, 1.6 mi upstream from U.S. Highway 59, 11.6 mi west of Victoria, and 12.8 mi upstream from mouth.

DRAINAGE AREA.--494 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Feb. 1980 to Sept. 2002 (contents), Oct. 2002 to current year.

REVISED RECORDS.--From Feb. 1980 to Sept. 2000, total daily contents of the main reservoir, the Turkey Creek Arm, and the Sulphur Creek Arm published as station 08177400. Revised daily contents for Turkey Creek Arm are stored as station 08177240 Turkey Creek Arm of Coletto Creek Reservoir near Schroeder and revised daily contents for Sulphur Creek Arm are stored as station 08177380 Sulphur Creek Arm of Coletto Creek Reservoir near Fannin. Revised daily contents not presented in this report.

GAGE.--Water-stage recorder. Datum of gage is 80.00 ft. above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good. Some records listed in the Period of Record element for surface water may not be available electronically. The reservoir system consists of the main reservoir, Turkey Creek Arm, and Sulphur Creek Arm. Figures shown below are the elevations of the main reservoir only. As of July 1999, the Turkey Creek Arm and Sulphur Creek Arm stations are operated by the Guadalupe-Blanco River Authority. Cooling water is diverted from the main reservoir through the Central Power and Light coal-fired generating plant, through a canal to the Sulphur Creek Arm, and then through a canal to Turkey Creek Arm, where it is released back into the main reservoir. The system was built for the Guadalupe-Blanco River Authority, and storage began in Feb. 1980.

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The main reservoir is formed by a compacted earthfill dam 20,800 ft long, including a 2,000-foot uncontrolled spillway and a 403-foot wide concrete outlet structure with seven 40- x 28-foot spillway gates. Low-flow releases are made through the dam by a controlled 8-inch pipe. Turkey Creek Arm is formed by a compacted earthfill dam 2,250 ft long, including a 186-ft wide concrete outlet structure with two 40- x 11-foot spillway gates. Sulphur Creek Arm is formed by a compacted earthfill dam 1,030 ft long, including a 186-foot wide concrete outlet structure with two 40- by 11-foot spillway gates. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	119.0
Emergency spillway.....	107.3
Top of spillway gates.....	99.4
Crest of spillway.....	71.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 36,680 acre-ft, Aug. 31, 2001, elevation, 99.94 ft; maximum elevation 101.10 ft, Nov. 21, 2004; minimum since reservoir was first filled in May 1980, 20,330 acre-ft, Aug. 20, 21, 1996, elevation, 93.27 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 98.46 ft, Jan. 20; minimum elevation, 94.30 ft, Sept. 15.

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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	98.30	97.70	97.35	97.31	98.29	98.02	97.67	97.06	96.32	95.72	95.06	94.59
2	98.28	97.76	97.34	97.28	98.26	98.00	97.66	97.04	96.29	95.70	95.05	94.58
3	98.26	97.75	97.33	97.27	98.24	97.99	97.64	96.98	96.25	95.67	95.03	94.56
4	98.23	97.72	97.34	97.28	98.23	97.98	97.65	96.94	96.21	95.64	95.01	94.53
5	98.20	97.68	97.36	97.29	98.21	97.98	97.60	96.91	96.14	95.61	94.99	94.49
6	98.17	97.66	97.35	97.28	98.19	97.94	97.57	96.88	96.08	95.59	94.97	94.46
7	98.15	97.64	97.35	97.28	98.17	97.92	97.56	96.86	96.03	95.56	94.95	94.43
8	98.13	97.63	97.34	97.27	98.14	97.92	97.55	96.83	95.99	95.53	94.93	94.41
9	98.11	97.62	97.32	97.37	98.16	97.92	97.54	96.81	95.96	95.49	94.91	94.40
10	98.10	97.60	97.31	97.39	98.13	97.89	97.52	96.81	95.93	95.45	94.89	94.39
11	98.09	97.60	97.31	97.38	98.12	97.86	97.52	96.80	95.89	95.42	94.88	94.38
12	98.08	97.59	97.29	97.35	98.11	97.84	97.48	96.80	95.87	95.39	94.86	94.36
13	98.06	97.66	97.27	97.34	98.10	97.83	97.46	96.86	95.84	95.36	94.84	94.35
14	98.04	97.64	97.26	97.35	98.10	97.84	97.44	96.84	95.80	95.32	94.84	94.34
15	98.01	97.68	97.25	97.40	98.10	97.83	97.43	96.82	95.76	95.30	94.82	94.32
16	97.99	97.62	97.26	97.95	98.09	97.81	97.39	96.78	95.73	95.29	94.80	94.34
17	97.98	97.57	97.25	98.42	98.09	97.84	97.36	96.73	95.69	95.27	94.79	94.37
18	97.97	97.55	97.24	98.36	98.09	97.88	97.35	96.70	95.65	95.26	94.77	94.41
19	97.95	97.52	97.23	98.39	98.09	97.89	97.33	96.68	95.62	95.25	94.75	94.41
20	97.94	97.50	97.22	98.42	98.09	97.88	97.32	96.66	95.58	95.23	94.73	94.40
21	97.93	97.49	97.23	98.35	98.09	97.87	97.31	96.64	95.55	95.22	94.72	94.39
22	97.91	97.48	97.23	98.32	98.09	97.85	97.28	96.62	95.74	95.20	94.71	94.40
23	97.89	97.48	97.22	98.32	98.08	97.82	97.26	96.59	95.84	95.18	94.70	94.47
24	97.88	97.47	97.24	98.30	98.07	97.80	97.24	96.56	95.85	95.17	94.69	94.48
25	97.86	97.47	97.27	98.29	98.07	97.78	97.22	96.54	95.87	95.15	94.69	94.47
26	97.85	97.45	97.24	98.28	98.05	97.78	97.21	96.53	95.86	95.14	94.71	94.47
27	97.84	97.42	97.23	98.28	98.04	97.77	97.20	96.49	95.84	95.12	94.66	94.51
28	97.81	97.40	97.23	98.27	98.05	97.74	97.15	96.45	95.82	95.10	94.63	94.56
29	97.76	97.40	97.28	98.26	---	97.73	97.11	96.41	95.79	95.09	94.60	94.60
30	97.74	97.39	97.31	98.25	---	97.72	97.08	96.38	95.75	95.08	94.61	94.61
31	97.72	---	97.33	98.26	---	97.69	---	96.35	---	95.07	94.61	---
Mean	98.01	97.57	97.28	97.82	98.13	97.86	97.40	96.72	95.88	95.34	94.81	94.45
Max	98.30	97.76	97.36	98.42	98.29	98.02	97.67	97.06	96.32	95.72	95.06	94.61
Min	97.72	97.39	97.22	97.27	98.04	97.69	97.08	96.35	95.55	95.07	94.60	94.32

	Calendar Year 2010	Water Year 2011
Mean	98.00	96.77
Max	98.75	98.42
Min	97.10	94.32

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