Water-Data Report 2013

08144900 Brady Creek Reservoir near Brady, TX

Middle Colorado-Concho Basin
Brady Subbasin

LOCATION.--Lat 31°08′17″, long 99°23′07″ referenced to North American Datum of 1927, McCulloch County, TX, Hydrologic Unit 12090110, at mouth of Bear Creek on Brady Creek, on upstream side and near center of Brady Creek Dam, 10 ft upstream from Farm Road 3022 over Brady Creek Dam, 3.0 mi west of Brady, and 34.1 mi upstream from mouth.

DRAINAGE AREA.--523 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1963 to Sept. 1983, Jan. 1999 to Sept. 2002 (contents), Oct. 2002 to current year.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Sept. 1964 to Apr. 1983.
BIOCHEMICAL DATA: Sept. 1964 to Apr. 1983.
RADIOCHEMICAL DATA: Feb. 1981.

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

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to May 5, 2004, water-stage recorder at site 250 ft upstream at same datum. Satellite telemeter at station.

COOPERATION.--Records of diversions may be obtained from the city of Brady.

REMARKS.--Records good. The reservoir is formed by a compacted earthfill dam 8,400 ft long. The dam was completed and storage began in May 1963. The dam was built by the city of Brady in cooperation with the Natural Resources Conservation Service and the Farmers Home Administration for flood control, municipal, and industrial water supply. The spillway is a cut channel through natural ground 1,000 ft wide located at right end of dam. The service spillway is an uncontrolled concrete drop-inlet structure that discharges through a 7.0- by 7.0-foot concrete box conduit and is designed to discharge 4,000 ft^3/s at a 19.4-ft head. The gated outlet is a 36-inch pipe that extends through the embankment and is equipped with three sluice gates for controlled releases downstream. Flow into reservoir is affected at times by discharge from the flood-detention pools of 35 floodwater-retarding structures with a combined detention capacity of 77,950 acre-ft. These structures were built during the period Feb. 1955 to July 1962 and control runoff from 263 mi^2 in the Brady Creek watershed above this station. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	1,783.0
Crest of emergency spillway	1,762.4
Crest of service spillway	1,743.0
Lowest gated outlet (invert)	1,712.0

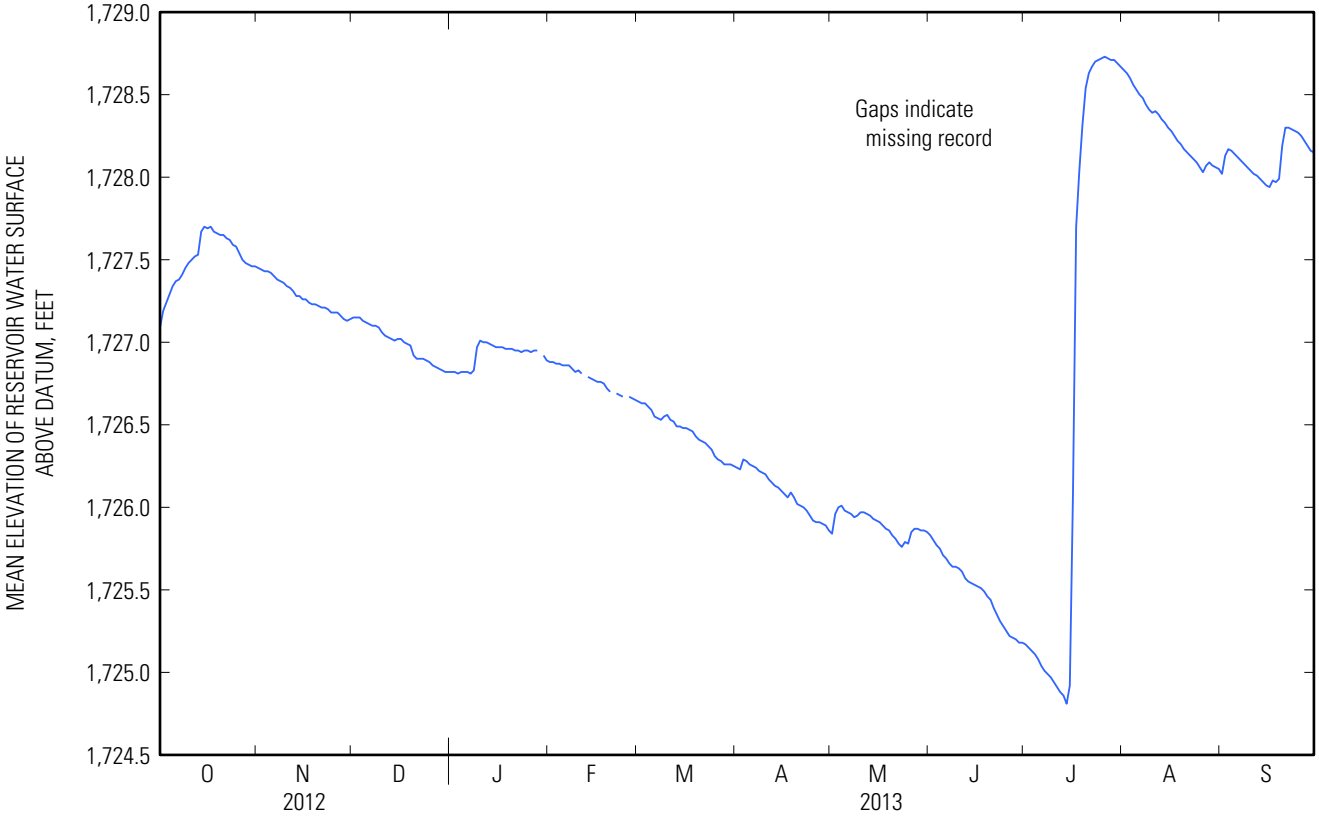
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 40,880 acre-ft, Sept. 24, 1971, elevation, 1,747.70 ft; minimum contents, 1,030 acre-ft, Sept. 18, 1964, elevation, 1,710.40 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,728.75 ft, July 26; minimum elevation, 1,724.75 ft, July 14.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 08144900, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/08144900.2013.pdf

08144900 Brady Creek Reservoir near Brady, TX—Continued

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,727.09	1,727.45	1,727.15	1,726.82	1,726.88	1,726.64	1,726.24	1,725.84	1,725.83	1,725.17	1,728.65	1,728.02
2	1,727.19	1,727.44	1,727.15	1,726.82	1,726.88	1,726.63	1,726.23	1,725.96	1,725.80	1,725.15	1,728.63	1,728.13
3	1,727.24	1,727.43	1,727.15	1,726.81	1,726.87	1,726.63	1,726.29	1,726.00	1,725.77	1,725.13	1,728.60	1,728.17
4	1,727.29	1,727.43	1,727.13	1,726.82	1,726.87	1,726.61	1,726.28	1,726.01	1,725.75	1,725.11	1,728.56	1,728.16
5	1,727.34	1,727.42	1,727.12	1,726.82	1,726.86	1,726.59	1,726.26	1,725.98	1,725.71	1,725.08	1,728.53	1,728.14
6	1,727.37	1,727.40	1,727.11	1,726.82	1,726.86	1,726.55	1,726.25	1,725.97	1,725.69	1,725.04	1,728.50	1,728.12
7	1,727.38	1,727.38	1,727.10	1,726.81	1,726.86	1,726.54	1,726.24	1,725.96	1,725.66	1,725.01	1,728.48	1,728.10
8	1,727.41	1,727.37	1,727.10	1,726.83	1,726.84	1,726.53	1,726.22	1,725.94	1,725.64	1,724.99	1,728.44	1,728.08
9	1,727.45	1,727.36	1,727.09	1,726.97	1,726.82	1,726.55	1,726.21	1,725.95	1,725.64	1,724.97	1,728.41	1,728.06
10	1,727.48	1,727.34	1,727.06	1,727.01	1,726.83	1,726.56	1,726.20	1,725.97	1,725.63	1,724.94	1,728.39	1,728.04
11	1,727.50	1,727.33	1,727.04	1,727.00	1,726.81	1,726.53	1,726.17	1,725.97	1,725.61	1,724.91	1,728.40	1,728.02
12	1,727.52	1,727.31	1,727.03	1,727.00	---	1,726.52	1,726.15	1,725.96	1,725.57	1,724.88	1,728.38	1,728.01
13	1,727.53	1,727.28	1,727.02	1,726.99	1,726.79	1,726.49	1,726.13	1,725.95	1,725.55	1,724.86	1,728.35	1,727.99
14	1,727.67	1,727.28	1,727.01	1,726.98	1,726.78	1,726.49	1,726.12	1,725.93	1,725.54	1,724.81	1,728.33	1,727.97
15	1,727.70	1,727.26	1,727.02	1,726.97	1,726.77	1,726.48	1,726.10	1,725.92	1,725.53	1,724.92	1,728.30	1,727.95
16	1,727.69	1,727.26	1,727.02	1,726.97	1,726.76	1,726.48	1,726.08	1,725.91	1,725.52	1,726.09	1,728.28	1,727.94
17	1,727.70	1,727.24	1,727.00	1,726.97	1,726.76	1,726.47	1,726.06	1,725.89	1,725.51	1,727.70	1,728.25	1,727.98
18	1,727.67	1,727.23	1,726.99	1,726.96	1,726.75	1,726.46	1,726.09	1,725.87	1,725.49	1,728.04	1,728.22	1,727.97
19	1,727.66	1,727.23	1,726.98	1,726.96	1,726.72	1,726.43	1,726.06	1,725.86	1,725.46	1,728.32	1,728.20	1,727.99
20	1,727.65	1,727.22	1,726.92	1,726.96	1,726.70	1,726.41	1,726.02	1,725.83	1,725.44	1,728.54	1,728.17	1,728.19
21	1,727.65	1,727.21	1,726.90	1,726.95	---	1,726.40	1,726.01	1,725.81	1,725.39	1,728.63	1,728.15	1,728.30
22	1,727.63	1,727.21	1,726.90	1,726.95	1,726.69	1,726.39	1,726.00	1,725.78	1,725.35	1,728.67	1,728.13	1,728.30
23	1,727.62	1,727.20	1,726.90	1,726.94	1,726.68	1,726.37	1,725.98	1,725.76	1,725.31	1,728.70	1,728.11	1,728.29
24	1,727.59	1,727.18	1,726.89	1,726.95	1,726.67	1,726.35	1,725.95	1,725.79	1,725.28	1,728.71	1,728.09	1,728.28
25	1,727.58	1,727.18	1,726.88	1,726.95	---	1,726.31	1,725.92	1,725.78	1,725.25	1,728.72	1,728.06	1,728.27
26	1,727.54	1,727.18	1,726.86	1,726.94	1,726.67	1,726.29	1,725.91	1,725.85	1,725.22	1,728.73	1,728.03	1,728.25
27	1,727.50	1,727.16	1,726.85	1,726.95	1,726.66	1,726.28	1,725.91	1,725.87	1,725.21	1,728.72	1,728.07	1,728.22
28	1,727.48	1,727.14	1,726.84	1,726.95	1,726.65	1,726.26	1,725.90	1,725.87	1,725.20	1,728.71	1,728.09	1,728.19
29	1,727.47	1,727.13	1,726.83	---	---	1,726.26	1,725.89	1,725.86	1,725.18	1,728.71	1,728.07	1,728.16
30	1,727.46	1,727.14	1,726.82	1,726.92	---	1,726.26	1,725.86	1,725.86	1,725.18	1,728.69	1,728.06	1,728.15
31	1,727.46	---	1,726.82	1,726.89	---	1,726.25	---	1,725.85	---	1,728.67	1,728.05	---
Mean	1,727.50	1,727.28	1,726.99	---	---	1,726.45	1,726.09	1,725.89	1,725.50	1,726.75	1,728.29	1,728.12
Max	1,727.70	1,727.45	1,727.15	---	---	1,726.64	1,726.29	1,726.01	1,725.83	1,728.73	1,728.65	1,728.30
Min	1,727.09	1,727.13	1,726.82	---	---	1,726.25	1,725.86	1,725.76	1,725.18	1,724.81	1,728.03	1,727.94

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