Water-Data Report 2012

08141000 Hords Creek Lake near Valera, TX

Middle Colorado-Concho Basin
Jim Ned Subbasin

LOCATION.--Lat 31°49′58″, long 99°33′38″ referenced to North American Datum of 1927, Coleman County, TX, Hydrologic Unit 12090108, at outlet-works structure near right end of dam on Hords Creek, 5.6 mi north of Valera, and 8.8 mi west of Coleman.

DRAINAGE AREA.--48.0 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Apr. 1948 to Sept. 2000 (U.S. Army Corps of Engineers furnished contents), Oct. 2000 to Sept. 2002 (contents), Oct. 2002 to current year. Prior to Oct. 1970, published as "Hords Creek Reservoir".

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Mar. 1964 to Oct. 1979.
BIOCHEMICAL DATA: Mar. 1964 to Oct. 1973.

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

COOPERATION.--Records of diversions may be obtained from the U.S. Army Corps of Engineers.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 6,800 ft long, including spillway. Deliberate impoundment of water began Apr. 7, 1948, and the dam was completed in June 1948. The spillway is an excavated channel through natural ground, 500 ft wide, located about 600 ft from the right end of dam. The spillway consists of three concrete conduits; two controlled by 5.0- by 6.0-foot slide gates, and a third uncontrolled ogee spillway 4.0 ft wide and 19.5 ft high. The dam is owned by the U.S. Army Corps of Engineers. The lake is operated for flood control and municipal water supply for the city of Coleman. The capacity table of Aug. 1974 was based on a sedimentation survey made in 1948. Flow is affected at times by discharge from the flood-detention pool of one floodwater-retarding structure with a detention capacity of 1,370 acre-ft. This structure controls runoff from 6.82 mi^2 in the Jim Ned Creek drainage basin. Conservation pool storage is 8,112 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam	1,939.0
Design flood	1,933.6
Crest of spillway	1,920.0
Crest of spillway (top of conservation pool)	1,900.0
Lowest gated outlet (invert)	1,856.0

Water-quality records available from Jan. 1981 to Aug. 1982 were published separately as:

Site ID	Site name
314959099333701	Hords Ck Lk Site AC nr Valera, TX
315002099341301	Hords Ck Lk Site CC nr Valera, TX
315020099344601	Hords Ck Lk Site DC nr Valera, TX
315021099341501	Hords Ck Lk Site BC nr Valera, TX

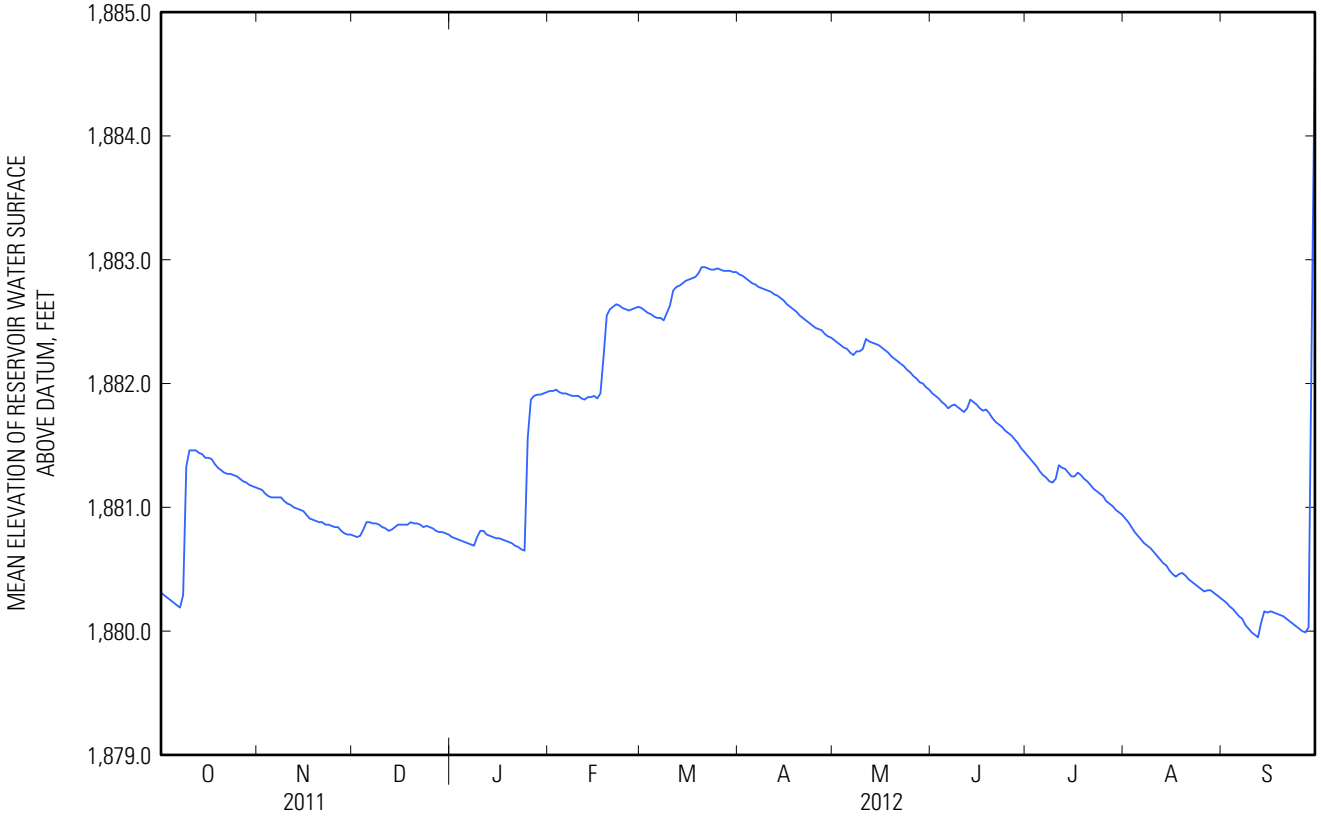
EXTREMES FOR PERIOD OF RECORD.--Apr. 1948 to Sept. 2002: Maximum contents, 12,790 acre-ft, May 1, 1956; minimum contents since first appreciable storage in June 1951, 1,550 acre-ft, Sept. 2, 1984; Apr. 1948 to current year: Maximum elevation, 1907.31 ft, Mar. 4, 1992; minimum elevation, 1,878.01 ft, Sept. 2, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,884.81 ft, Sept. 30; minimum elevation, 1,879.93 ft, Sept. 12, 13.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 08141000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/08141000.2012.pdf

08141000 Hords Creek Lake near Valera, TX—Continued

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,880.31	1,881.15	1,880.77	1,880.76	1,881.94	1,882.61	1,882.88	1,882.35	1,881.92	1,881.42	1,880.91	1,880.25
2	1,880.29	1,881.14	1,880.76	1,880.75	1,881.94	1,882.59	1,882.87	1,882.33	1,881.90	1,881.39	1,880.88	1,880.23
3	1,880.27	1,881.11	1,880.77	1,880.74	1,881.95	1,882.57	1,882.85	1,882.31	1,881.88	1,881.36	1,880.84	1,880.20
4	1,880.25	1,881.09	1,880.82	1,880.73	1,881.93	1,882.56	1,882.83	1,882.29	1,881.85	1,881.33	1,880.80	1,880.18
5	1,880.23	1,881.08	1,880.88	1,880.72	1,881.92	1,882.54	1,882.81	1,882.28	1,881.83	1,881.29	1,880.77	1,880.15
6	1,880.21	1,881.08	1,880.88	1,880.71	1,881.92	1,882.53	1,882.80	1,882.25	1,881.80	1,881.26	1,880.74	1,880.12
7	1,880.19	1,881.08	1,880.87	1,880.70	1,881.91	1,882.53	1,882.78	1,882.23	1,881.82	1,881.24	1,880.71	1,880.10
8	1,880.29	1,881.08	1,880.87	1,880.69	1,881.90	1,882.51	1,882.77	1,882.26	1,881.83	1,881.21	1,880.69	1,880.05
9	1,881.33	1,881.05	1,880.86	1,880.76	1,881.90	1,882.57	1,882.76	1,882.26	1,881.81	1,881.20	1,880.67	1,880.02
10	1,881.46	1,881.03	1,880.84	1,880.81	1,881.90	1,882.63	1,882.75	1,882.28	1,881.79	1,881.23	1,880.64	1,879.99
11	1,881.46	1,881.02	1,880.83	1,880.81	1,881.88	1,882.75	1,882.74	1,882.36	1,881.77	1,881.34	1,880.61	1,879.97
12	1,881.46	1,881.00	1,880.81	1,880.78	1,881.87	1,882.78	1,882.72	1,882.34	1,881.80	1,881.32	1,880.58	1,879.95
13	1,881.44	1,880.99	1,880.82	1,880.77	1,881.89	1,882.79	1,882.71	1,882.33	1,881.87	1,881.31	1,880.55	1,880.07
14	1,881.43	1,880.98	1,880.84	1,880.76	1,881.89	1,882.81	1,882.69	1,882.32	1,881.85	1,881.28	1,880.53	1,880.16
15	1,881.40	1,880.97	1,880.86	1,880.75	1,881.90	1,882.83	1,882.67	1,882.31	1,881.83	1,881.25	1,880.49	1,880.15
16	1,881.40	1,880.94	1,880.86	1,880.75	1,881.88	1,882.84	1,882.64	1,882.29	1,881.80	1,881.25	1,880.46	1,880.16
17	1,881.39	1,880.91	1,880.86	1,880.74	1,881.92	1,882.85	1,882.62	1,882.27	1,881.78	1,881.28	1,880.44	1,880.15
18	1,881.35	1,880.90	1,880.86	1,880.73	1,882.22	1,882.86	1,882.60	1,882.25	1,881.79	1,881.26	1,880.46	1,880.14
19	1,881.32	1,880.89	1,880.88	1,880.72	1,882.55	1,882.89	1,882.58	1,882.22	1,881.76	1,881.23	1,880.47	1,880.13
20	1,881.30	1,880.88	1,880.87	1,880.71	1,882.60	1,882.94	1,882.55	1,882.20	1,881.72	1,881.21	1,880.45	1,880.12
21	1,881.28	1,880.88	1,880.87	1,880.69	1,882.62	1,882.94	1,882.53	1,882.18	1,881.69	1,881.18	1,880.42	1,880.10
22	1,881.27	1,880.86	1,880.86	1,880.68	1,882.64	1,882.93	1,882.51	1,882.16	1,881.67	1,881.15	1,880.40	1,880.08
23	1,881.27	1,880.86	1,880.84	1,880.66	1,882.63	1,882.92	1,882.49	1,882.14	1,881.65	1,881.13	1,880.38	1,880.06
24	1,881.26	1,880.85	1,880.85	1,880.65	1,882.61	1,882.92	1,882.47	1,882.11	1,881.62	1,881.11	1,880.36	1,880.04
25	1,881.25	1,880.84	1,880.84	1,881.56	1,882.60	1,882.93	1,882.45	1,882.09	1,881.60	1,881.09	1,880.34	1,880.02
26	1,881.23	1,880.84	1,880.83	1,881.87	1,882.59	1,882.92	1,882.44	1,882.06	1,881.58	1,881.05	1,880.32	1,880.00
27	1,881.21	1,880.81	1,880.81	1,881.90	1,882.60	1,882.91	1,882.43	1,882.04	1,881.55	1,881.03	1,880.33	1,879.99
28	1,881.20	1,880.79	1,880.80	1,881.91	1,882.61	1,882.91	1,882.40	1,882.01	1,881.52	1,881.01	1,880.33	1,880.03
29	1,881.18	1,880.78	1,880.80	1,881.91	1,882.62	1,882.91	1,882.38	1,882.00	1,881.48	1,880.98	1,880.31	1,882.42
30	1,881.17	1,880.78	1,880.79	1,881.92	---	1,882.90	1,882.37	1,881.97	1,881.45	1,880.96	1,880.29	1,884.79
31	1,881.16	---	1,880.78	1,881.93	---	1,882.90	---	1,881.95	---	1,880.94	1,880.27	---
Mean	1,881.04	1,880.95	1,880.84	1,880.99	1,882.18	1,882.78	1,882.64	1,882.21	1,881.74	1,881.20	1,880.53	1,880.33
Max	1,881.46	1,881.15	1,880.88	1,881.93	1,882.64	1,882.94	1,882.88	1,882.36	1,881.92	1,881.42	1,880.91	1,884.79
Min	1,880.19	1,880.78	1,880.76	1,880.65	1,881.87	1,882.51	1,882.37	1,881.95	1,881.45	1,880.94	1,880.27	1,879.95

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