Water-Data Report 2012

08065330 Houston County Lake near Crockett, TX

Lower Trinity Basin
Lower Trinity-Tehuacana Subbasin

LOCATION.--Lat 31°24′24″, long 95°36′06″ referenced to North American Datum of 1927, Houston County, TX, Hydrologic Unit 12030201, at Houston County Water Control and Improvement District No. 1 pump station, on Little Elkhart Creek, 10 miles northwest of Crockett.

DRAINAGE AREA.--49.0 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1999 to Sept. 2002 (daily mean contents). Oct. 2002 to current year (daily mean elevation).

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Jan. 1969 to Mar. 1975.
BIOCHEMICAL DATA: Jan. 1969 to Apr. 1972

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

REMARKS.--Records good. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically. The lake is formed by a rolled earthfill dam 1,250 ft long, including a 500-ft uncontrolled spillway. Deliberate impoundment began in Nov. 1966. The uncontrolled spillway is an excavated channel cut through natural ground and located at the right end of the dam. The low-flow outlet consists of an 18-inch concrete pressure pipe through the dam with valve on the upstream side. Water is used for municipal and industrial purposes in the area. There are no known diversions. The dam is owned by the Houston County WC&ID No. 1. In 2000, levels were used to determine elevations from NGVD of 1929. The reference elevation was found to differ from the TWDB published value by -0.60 ft. Data regarding the dam use the datum from TWDB Report 126 and are given in the following table:

	Elevation (feet)
Top of dam.....	277.0
Crest of uncontrolled spillway.....	265.0
Lowest gated outlet.....	234.0

EXTREMES FOR PERIOD OF RECORD.--1999 to 2002: Maximum contents, 23,450 acre-ft, June 8, 2001; minimum contents, 15,540 acre-ft, Oct. 15, 2000; 1999 to current year: Maximum elevation, 264.87 ft., June 8, 2001; minimum elevation, 255.79 ft, several days Nov. 2011.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 260.77 ft, Sept. 30; minimum elevation, 255.79 ft, several days in Nov.

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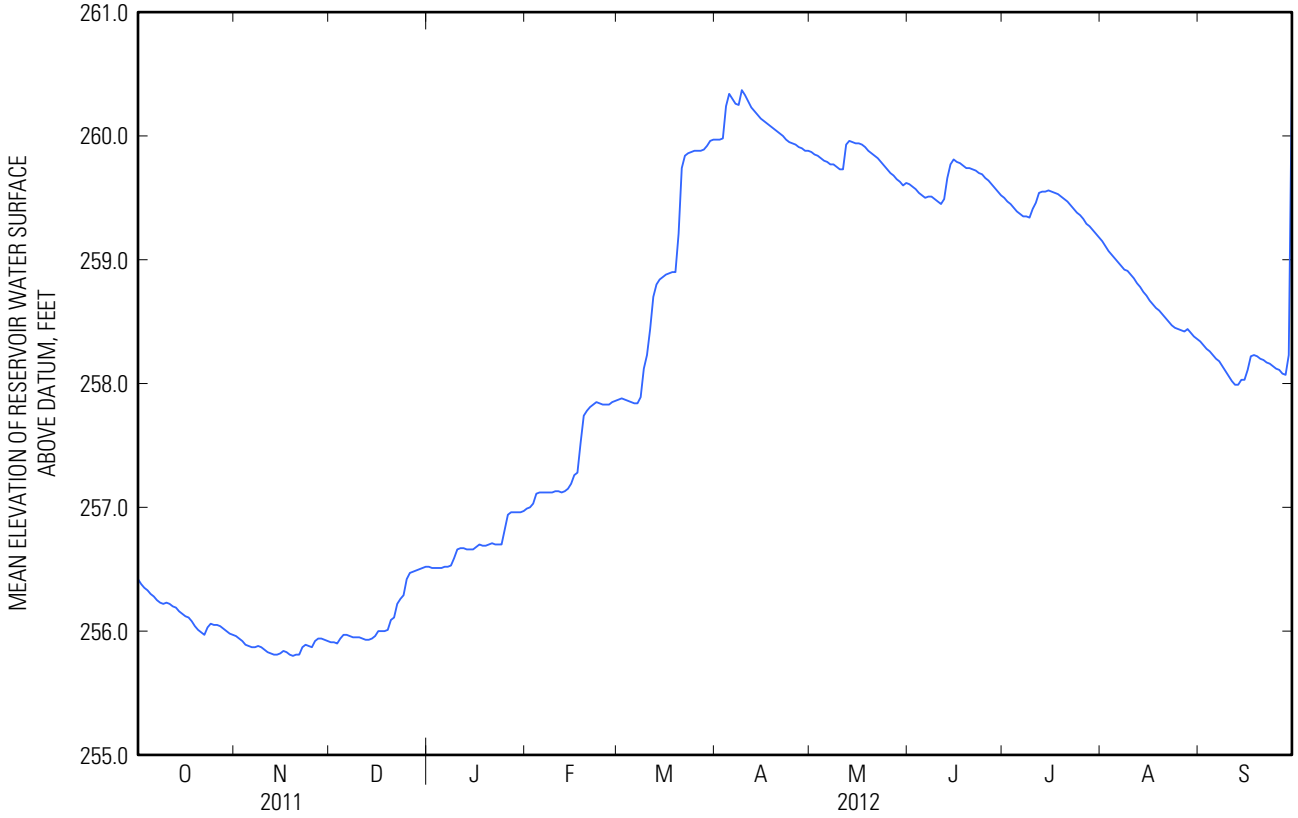
ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	256.42	255.96	255.91	256.52	256.99	257.87	259.97	259.87	259.61	259.50	259.15	258.34
2	256.38	255.94	255.91	256.51	257.00	257.88	259.97	259.85	259.59	259.47	259.11	258.31
3	256.35	255.92	255.90	256.51	257.03	257.87	259.98	259.84	259.57	259.45	259.07	258.28
4	256.33	255.89	255.94	256.51	257.11	257.86	260.24	259.82	259.54	259.42	259.04	258.26
5	256.30	255.88	255.97	256.51	257.12	257.85	260.34	259.80	259.52	259.39	259.01	258.23
6	256.28	255.87	255.97	256.52	257.12	257.84	260.30	259.79	259.50	259.37	258.98	258.20
7	256.25	255.87	255.96	256.52	257.12	257.84	260.26	259.77	259.51	259.35	258.95	258.18
8	256.23	255.88	255.95	256.53	257.12	257.89	260.25	259.77	259.51	259.35	258.92	258.14
9	256.22	255.87	255.95	256.59	257.12	258.12	260.37	259.75	259.49	259.34	258.91	258.10
10	256.23	255.85	255.95	256.66	257.13	258.23	260.33	259.73	259.47	259.41	258.88	258.06
11	256.22	255.83	255.94	256.67	257.13	258.44	260.28	259.73	259.45	259.46	258.85	258.02
12	256.20	255.82	255.93	256.67	257.12	258.70	260.23	259.93	259.49	259.54	258.81	257.99
13	256.19	255.81	255.93	256.66	257.13	258.80	260.20	259.96	259.66	259.55	258.78	257.99
14	256.16	255.81	255.94	256.66	257.15	258.84	260.17	259.95	259.77	259.55	258.74	258.03
15	256.14	255.82	255.96	256.66	257.19	258.86	260.14	259.94	259.81	259.56	258.71	258.03
16	256.12	255.84	256.00	256.68	257.26	258.88	260.12	259.94	259.79	259.55	258.67	258.11
17	256.11	255.83	256.00	256.70	257.28	258.89	260.10	259.93	259.78	259.54	258.64	258.22
18	256.08	255.81	256.00	256.69	257.52	258.90	260.08	259.91	259.76	259.53	258.61	258.23
19	256.04	255.80	256.01	256.69	257.74	258.90	260.06	259.88	259.74	259.51	258.59	258.22
20	256.01	255.81	256.09	256.70	257.78	259.21	260.04	259.86	259.74	259.49	258.56	258.20
21	255.99	255.81	256.11	256.71	257.81	259.74	260.02	259.84	259.73	259.47	258.53	258.19
22	255.97	255.87	256.22	256.70	257.83	259.84	260.00	259.82	259.72	259.44	258.50	258.17
23	256.03	255.89	256.26	256.70	257.85	259.86	259.97	259.79	259.70	259.41	258.47	258.16
24	256.06	255.88	256.29	256.70	257.84	259.87	259.95	259.76	259.69	259.38	258.45	258.14
25	256.05	255.87	256.42	256.82	257.83	259.88	259.94	259.73	259.66	259.36	258.44	258.12
26	256.05	255.92	256.47	256.94	257.83	259.88	259.93	259.70	259.64	259.33	258.43	258.11
27	256.04	255.94	256.48	256.96	257.83	259.88	259.91	259.68	259.61	259.29	258.42	258.08
28	256.02	255.94	256.49	256.96	257.85	259.89	259.90	259.65	259.58	259.27	258.44	258.07
29	256.00	255.93	256.50	256.96	257.86	259.92	259.88	259.63	259.55	259.24	258.41	258.23
30	255.98	255.92	256.51	256.96	---	259.96	259.88	259.60	259.52	259.21	258.38	260.47
31	255.97	---	256.52	256.97	---	259.97	---	259.62	---	259.18	258.36	---
Mean	256.14	255.87	256.11	256.69	257.40	258.91	260.09	259.80	259.62	259.42	258.70	258.23
Max	256.42	255.96	256.52	256.97	257.86	259.97	260.37	259.96	259.81	259.56	259.15	260.47
Min	255.97	255.80	255.90	256.51	256.99	257.84	259.88	259.60	259.45	259.18	258.36	257.99

	Calendar Year 2011	Water Year 2012
Mean	258.16	258.08
Max	259.88	260.47
Min	255.80	255.80

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