Water-Data Report 2011

08040000 B.A. Steinhagen Lake at Town Bluff, TX

Neches Basin
Lower Neches Subbasin

LOCATION.--Lat 30°47′43″, long 94°10′48″ referenced to North American Datum of 1927, Tyler County, TX, Hydrologic Unit 12020003, near right bank 70 ft upstream from outlet structure of Town Bluff Dam on Neches River, 0.4 mi north of Town Bluff and at mile 113.7.

DRAINAGE AREA.--7,573 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Apr. 1951 to Oct. 2000 (U.S. Army Corps of Engineers furnished contents). Oct. 2000 to Sept. 2002 (daily mean contents). Oct. 2002 to current year. Prior to Oct. 1967, published as "Dam B Reservoir at Town Bluff".

REVISED RECORDS.--WSP 1732: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Oct. 25, 1954, at site 490 ft upstream at same datum. 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 with concrete spillway sections. The total length of dam is 6,698 ft, including a concrete spillway and nonoverflow section. Deliberate impoundment of water began Apr. 16, 1951, and the dam was completed in June 1951. The uncontrolled spillway is 6,100 ft long. A 326-foot-long gated service spillway with six 40.0- x 35.0-foot tainter gates is located near right end of dam. The capacity of the spillways at maximum flood design is 218,300 ft^3/s. The capacity table is based on a survey made in 1945. The dam is owned by the U.S. Army Corps of Engineers. The water is used for industrial, municipal and irrigation supplies. Conservation pool storage is 69,700 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam (nonoverflow)	95.0
Design flood	93.0
Crest of uncontrolled spillway (top of tainter gates)	85.0
Top of conservation pool	81.0
Bottom of tainter gates (sill)	50.0

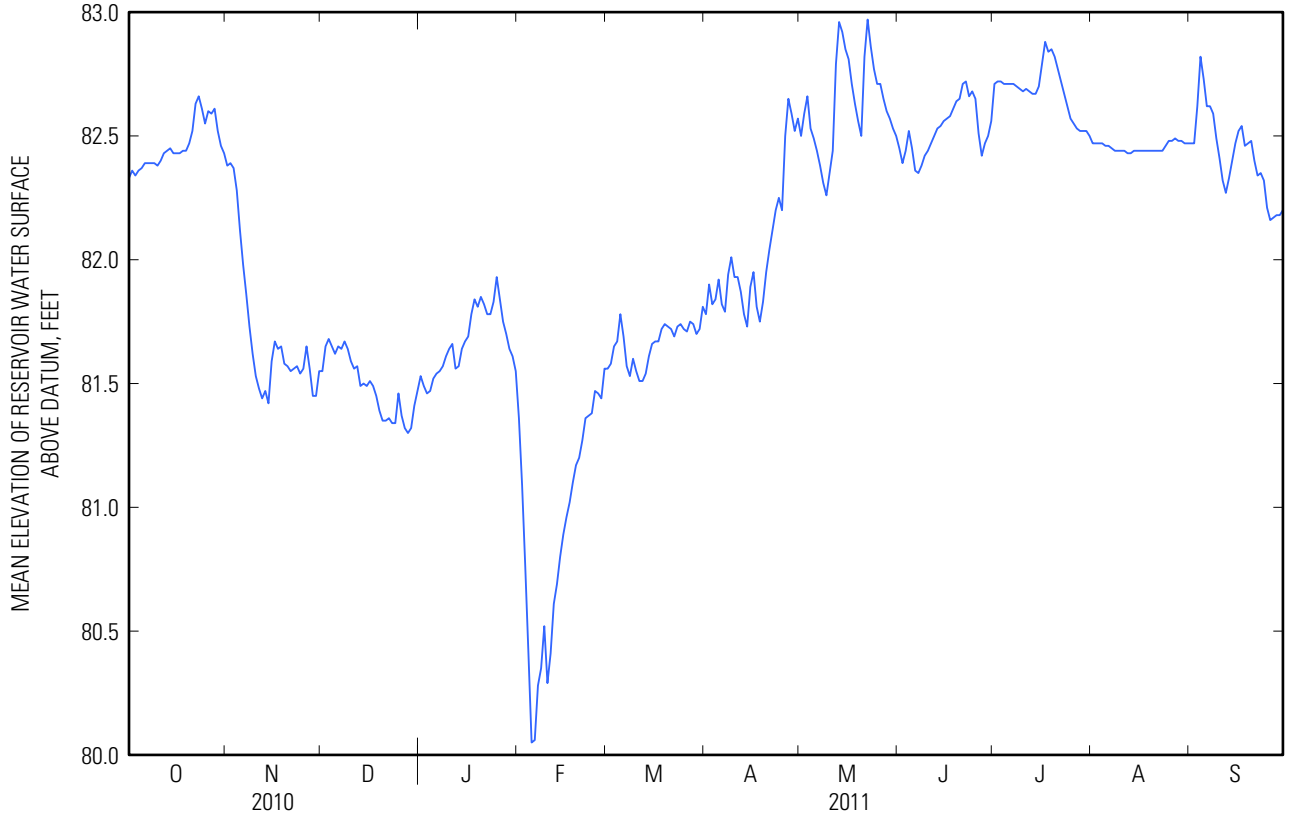
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 128,400 acre-ft, May 22, 1953 elevation, 85.21 ft; no storage Sept. 18 to Oct. 13, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 83.00 ft, May 14 and 22; minimum elevation, 80.00 ft, Feb. 5.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 08040000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/08040000.2011.pdf

08040000 B.A. Steinhagen Lake at Town Bluff, TX—Continued

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	82.33	82.38	81.55	81.53	81.36	81.56	81.78	82.50	82.45	82.71	82.47	82.47
2	82.36	82.39	81.65	81.49	81.09	81.58	81.90	82.59	82.39	82.72	82.47	82.47
3	82.34	82.37	81.68	81.46	80.76	81.65	81.82	82.66	82.44	82.72	82.47	82.62
4	82.36	82.28	81.65	81.47	80.41	81.67	81.84	82.53	82.52	82.71	82.47	82.82
5	82.37	82.12	81.62	81.52	80.05	81.78	81.92	82.49	82.45	82.71	82.46	82.73
6	82.39	81.98	81.65	81.54	80.06	81.69	81.82	82.44	82.36	82.71	82.46	82.62
7	82.39	81.86	81.64	81.55	80.28	81.57	81.79	82.38	82.35	82.71	82.45	82.62
8	82.39	81.73	81.67	81.57	80.35	81.53	81.94	82.31	82.38	82.70	82.44	82.59
9	82.39	81.62	81.64	81.61	80.52	81.60	82.01	82.26	82.42	82.69	82.44	82.49
10	82.38	81.53	81.59	81.64	80.29	81.55	81.93	82.35	82.44	82.68	82.44	82.41
11	82.40	81.48	81.56	81.66	80.41	81.51	81.93	82.44	82.47	82.69	82.44	82.32
12	82.43	81.44	81.57	81.56	80.61	81.51	81.87	82.79	82.50	82.68	82.43	82.27
13	82.44	81.47	81.49	81.57	80.69	81.54	81.78	82.96	82.53	82.67	82.43	82.33
14	82.45	81.42	81.50	81.64	80.80	81.61	81.73	82.92	82.54	82.67	82.44	82.40
15	82.43	81.59	81.49	81.67	80.89	81.66	81.89	82.85	82.56	82.70	82.44	82.47
16	82.43	81.67	81.51	81.69	80.96	81.67	81.95	82.81	82.57	82.79	82.44	82.52
17	82.43	81.64	81.49	81.78	81.02	81.67	81.81	82.71	82.58	82.88	82.44	82.54
18	82.44	81.65	81.45	81.84	81.10	81.72	81.75	82.63	82.61	82.84	82.44	82.46
19	82.44	81.58	81.39	81.81	81.17	81.74	81.83	82.56	82.64	82.85	82.44	82.47
20	82.47	81.57	81.35	81.85	81.20	81.73	81.95	82.50	82.65	82.82	82.44	82.48
21	82.52	81.55	81.35	81.82	81.27	81.72	82.04	82.82	82.71	82.77	82.44	82.40
22	82.63	81.56	81.36	81.78	81.36	81.69	82.12	82.97	82.72	82.72	82.44	82.34
23	82.66	81.57	81.34	81.78	81.37	81.73	82.20	82.86	82.66	82.67	82.44	82.35
24	82.61	81.54	81.34	81.83	81.38	81.74	82.25	82.77	82.68	82.62	82.46	82.32
25	82.55	81.56	81.46	81.93	81.47	81.72	82.20	82.71	82.65	82.57	82.48	82.21
26	82.60	81.65	81.37	81.84	81.46	81.71	82.50	82.71	82.51	82.55	82.48	82.16
27	82.59	81.56	81.32	81.75	81.44	81.75	82.65	82.65	82.42	82.53	82.49	82.17
28	82.61	81.45	81.30	81.70	81.56	81.74	82.59	82.60	82.47	82.52	82.48	82.18
29	82.52	81.45	81.32	81.64	---	81.70	82.52	82.57	82.50	82.52	82.48	82.18
30	82.46	81.55	81.41	81.61	---	81.72	82.57	82.53	82.56	82.52	82.47	82.20
31	82.43	---	81.47	81.55	---	81.81	---	82.50	---	82.50	82.47	---
Mean	82.46	81.71	81.49	81.67	80.90	81.66	82.03	82.62	82.52	82.68	82.45	82.42
Max	82.66	82.39	81.68	81.93	81.56	81.81	82.65	82.97	82.72	82.88	82.49	82.82
Min	82.33	81.42	81.30	81.46	80.05	81.51	81.73	82.26	82.35	82.50	82.43	82.16

08040000 B.A. Steinhagen Lake at Town Bluff, TX—Continued