

Water-Data Report 2011

08164525 Lake Texana near Edna, TX

Lavaca Basin
Navidad Subbasin

LOCATION.--Lat 28°53'30", long 96°34'39" referenced to North American Datum of 1927, Jackson County, TX, Hydrologic Unit 12100102, on river outlet works structure on upstream side of Palmetto Bend Dam on the Navidad River, 4.0 mi north of Lolita, 4.9 mi upstream from confluence with Lavaca River, and 7.2 mi southeast of Edna.

DRAINAGE AREA.--1,370 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1999 to Sept. 2002 (contents), Oct. 2002 to current year.

REVISED RECORDS.--WDR US-06: 2003-2005.

GAGE.--Water-stage recorder. Datum of the 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 1.3 mi long, a concrete spillway 464 ft wide, and 6.6 mi of earthen dikes. The dam was completed and storage began May 1980. The spillway has twelve 35 ft wide by 22.5 ft high radial gates to discharge flood flows to the river channel downstream. Dual level municipal and industrial outlet works structures are located on each side of the spillway. These concrete structures provide for access to a conduit through the dam and for connecting a water delivery system. The river outlet works, a concrete structure with multi-level intake gates, discharge into the Navidad River through an 8 ft by 10 ft downstream conduit. The dam is owned by the Lavaca-Navidad River Authority. The primary purpose of Lake Texana is to provide municipal and industrial water supply of 75,000 acre-ft annually, and to provide recreational, fish and wildlife facilities for the public. The lake is not designed to store floods; therefore, flooding both downstream and upstream remains approximately the same as conditions were before construction. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	55.0
Top of gate.....	45.3
Crest of spillways (tainter gates sill).....	23.0

Beginning in Water Year 2006, water-quality data that were published with this site are now published separately as:

Site ID	Site name
285331096343501	Lake Texana Site AC near Edna, Tx
285326096342101	Lake Texana Site AL near Edna, Tx
285534096322301	Lake Texana Site BC near Edna, Tx
285816096320201	Lake Texana Site CC near Edna, Tx
290042096331401	Lake Texana Site DC near Edna, Tx
285940096312101	Lake Texana Site EC near Edna, Tx

EXTREMES FOR PERIOD OF RECORD.--July 1999 to Sept. 2002: Maximum contents, 163,200 acre-ft, Nov. 27, 2001; minimum contents, 105,200 acre-ft, Feb. 22, 2000; July 1999 to current year: Maximum elevation, 44.74 ft, Nov. 27, 2001; minimum elevation, 38.33 ft, Feb. 22, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 43.77 ft, Oct. 1; minimum elevation, 33.02 ft, Sept. 29.

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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	43.75	42.56	41.66	41.00	41.17	40.25	39.12	37.90	37.44	36.78	35.69	34.22
2	43.71	42.63	41.63	40.93	41.07	40.19	39.09	37.91	37.40	36.74	35.64	34.18
3	43.67	42.60	41.60	40.88	40.99	40.16	39.04	37.95	37.34	36.69	35.59	34.14
4	43.60	42.55	41.58	40.84	40.95	40.14	39.05	37.87	37.30	36.65	35.53	34.08
5	43.49	42.47	41.58	40.83	40.89	40.18	38.97	37.82	37.27	36.60	35.49	34.01
6	43.39	42.42	41.51	40.81	40.87	40.08	38.90	37.78	37.25	36.58	35.43	33.92
7	43.35	42.38	41.46	40.79	40.87	40.03	38.87	37.73	37.21	36.54	35.38	33.87
8	43.32	42.34	41.46	40.78	40.78	40.01	38.84	37.69	37.16	36.49	35.31	33.83
9	43.29	42.28	41.39	40.83	40.85	40.03	38.80	37.65	37.12	36.45	35.27	33.78
10	43.25	42.26	41.37	40.85	40.78	39.93	38.76	37.61	37.08	36.42	35.22	33.74
11	43.25	42.23	41.36	40.92	40.73	39.86	38.78	37.58	37.03	36.38	35.17	33.69
12	43.24	42.22	41.34	40.91	40.71	39.81	38.72	37.69	36.98	36.33	35.12	33.65
13	43.24	42.28	41.27	40.89	40.67	39.79	38.66	37.95	36.93	36.30	35.07	33.60
14	43.21	42.23	41.22	40.87	40.64	39.79	38.61	37.97	36.87	36.27	35.03	33.56
15	43.17	42.20	41.17	40.86	40.58	39.74	38.62	37.97	36.81	36.23	34.97	33.53
16	43.14	42.16	41.20	40.91	40.57	39.69	38.54	37.95	36.75	36.20	34.92	33.49
17	43.13	42.10	41.18	41.03	40.56	39.64	38.47	37.91	36.69	36.17	34.88	33.45
18	43.11	42.09	41.14	41.28	40.56	39.62	38.42	37.85	36.62	36.15	34.83	33.43
19	43.07	42.04	41.10	41.32	40.54	39.60	38.38	37.81	36.57	36.13	34.77	33.44
20	43.02	42.00	41.05	41.35	40.52	39.56	38.38	37.77	36.52	36.09	34.72	33.43
21	42.97	41.97	41.03	41.30	40.52	39.51	38.35	37.76	36.48	36.06	34.66	33.40
22	42.92	41.94	41.03	41.26	40.52	39.45	38.29	37.70	36.53	36.03	34.62	33.36
23	42.89	41.91	41.01	41.27	40.44	39.45	38.25	37.64	36.54	36.01	34.56	33.33
24	42.89	41.88	41.00	41.34	40.40	39.43	38.22	37.59	36.64	35.99	34.52	33.28
25	42.83	41.89	41.03	41.29	40.41	39.39	38.16	37.56	36.78	35.95	34.50	33.22
26	42.80	41.91	40.94	41.22	40.37	39.36	38.13	37.58	36.87	35.91	34.47	33.20
27	42.77	41.83	40.91	41.18	40.31	39.34	38.15	37.53	36.91	35.87	34.43	33.17
28	42.76	41.79	40.85	41.17	40.35	39.32	38.08	37.54	36.90	35.83	34.38	33.14
29	42.69	41.75	40.89	41.15	---	39.26	37.99	37.52	36.88	35.81	34.34	33.12
30	42.64	41.77	40.92	41.15	---	39.25	37.92	37.49	36.83	35.77	34.29	33.09
31	42.60	---	40.99	41.14	---	39.17	---	37.47	---	35.74	34.25	---
Mean	43.13	42.16	41.22	41.04	40.66	39.71	38.55	37.73	36.92	36.23	34.94	33.58
Max	43.75	42.63	41.66	41.35	41.17	40.25	39.12	37.97	37.44	36.78	35.69	34.22
Min	42.60	41.75	40.85	40.78	40.31	39.17	37.92	37.47	36.48	35.74	34.25	33.09

	Calendar Year 2010	Water Year 2011
Mean	43.29	38.82
Max	44.22	43.75
Min	40.85	33.09

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