Water-Data Report 2012

08110460 Lake Limestone at Lake Limestone Marina near Farrar, TX

Lower Brazos Basin
Navasota Subbasin

LOCATION.--Lat 31°23′04″, long 96°19′07″ referenced to North American Datum of 1983, Limestone County, TX, Hydrologic Unit 12070103, located at the south end of the Lake Limestone Resort and Marina property.

DRAINAGE AREA.--675 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Apr. 2006 to current year.

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

REMARKS.--Records fair. The lake is formed by a rolled earthfill dam 11,395 ft long, including the spillway. The lake was built for water conservation. The dam is owned by the Brazos River Authority. Deliberate impoundment began on Oct. 16, 1978. The spillway is an uncontrolled broad-crested weir 3,000 ft long located near left end of dam. The spillway for normal flood releases is a gated concrete gravity structure with an ogee weir section and stilling basin located near center of dam. It is controlled by five 40- by 28-ft tainter gates. There are two 4- by 8-ft slide gates located in each of the two center piers of the spillway that discharge into the stilling basin. These gates can also be opened during extreme floods. A low-flow outlet, consisting of a 10-in-diameter cast iron pipe, is located in the left end of pier. In addition, there are two 36-in (outside diameter) steel cylinder pipes located in the right end pier for water supply releases. The lowest invert for low flow and water supply releases is at elevation 325.50 ft. The city of Mexia releases various amounts of wastewater effluent into stream above lake. Data regarding dam are given in the following table:

	Elevation (feet)
Top of dam	380.0
Design flood	370.0
Crest of spillway	369.6
Top of gates	365.0
Concrete gated spillway	337.0
Lowest gated outlet (invert)	322.0

Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 364.34 ft, Mar. 21; minimum elevation, 352.56 ft, Dec. 3.

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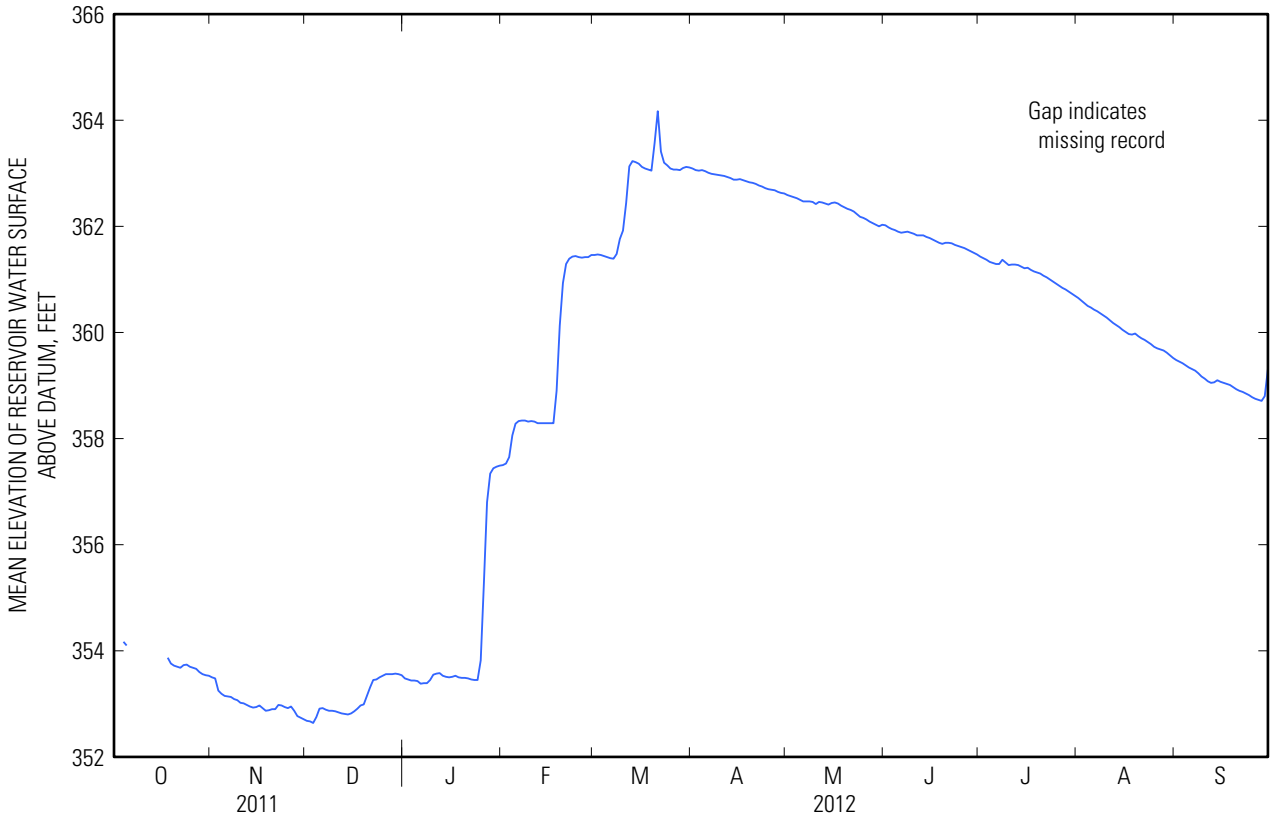
ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	353.50	352.68	353.48	357.50	361.46	363.09	362.59	362.02	361.43	360.65	359.48
2	---	353.48	352.67	353.46	357.53	361.47	363.06	362.57	361.98	361.40	360.60	359.45
3	---	353.25	352.64	353.44	357.65	361.46	363.05	362.55	361.95	361.37	360.55	359.42
4	354.17	353.19	352.75	353.44	358.06	361.44	363.06	362.53	361.93	361.33	360.50	359.38
5	354.10	353.15	352.91	353.43	358.28	361.42	363.04	362.50	361.90	361.31	360.47	359.34
6	---	353.14	352.92	353.38	358.33	361.40	363.01	362.47	361.88	361.29	360.43	359.31
7	---	353.13	352.89	353.39	358.34	361.39	362.99	362.47	361.89	361.29	360.40	359.28
8	---	353.09	352.87	353.39	358.34	361.48	362.98	362.47	361.90	361.37	360.36	359.23
9	---	353.07	352.87	353.45	358.32	361.76	362.97	362.46	361.88	361.32	360.32	359.17
10	---	353.02	352.86	353.55	358.33	361.92	362.96	362.42	361.86	361.27	360.28	359.13
11	---	353.01	352.84	353.57	358.32	362.44	362.95	362.46	361.83	361.28	360.23	359.08
12	---	352.98	352.82	353.58	358.29	363.13	362.93	362.45	361.83	361.28	360.18	359.05
13	---	352.95	352.81	353.53	358.29	363.23	362.91	362.43	361.83	361.27	360.14	359.06
14	---	352.93	352.80	353.51	358.29	363.21	362.88	362.41	361.80	361.24	360.10	359.10
15	---	352.94	352.82	353.50	358.29	363.18	362.88	362.44	361.78	361.21	360.05	359.07
16	---	352.97	352.86	353.51	358.29	363.12	362.89	362.45	361.75	361.22	360.01	359.05
17	---	352.92	352.91	353.53	358.29	363.09	362.87	362.43	361.72	361.18	359.97	359.03
18	353.87	352.87	352.97	353.50	358.90	363.07	362.85	362.39	361.69	361.15	359.96	359.01
19	353.76	352.88	352.99	353.49	360.13	363.05	362.83	362.36	361.67	361.13	359.98	358.97
20	353.72	352.90	353.15	353.49	360.93	363.57	362.82	362.33	361.69	361.11	359.93	358.93
21	353.70	352.90	353.31	353.48	361.29	364.17	362.80	362.31	361.69	361.07	359.89	358.90
22	353.68	352.98	353.45	353.46	361.39	363.41	362.77	362.28	361.68	361.04	359.86	358.88
23	353.73	352.97	353.46	353.45	361.43	363.20	362.75	362.23	361.65	361.00	359.82	358.85
24	353.74	352.94	353.50	353.45	361.44	363.15	362.72	362.18	361.63	360.96	359.78	358.82
25	353.70	352.92	353.53	353.82	361.42	363.09	362.70	362.16	361.61	360.92	359.73	358.78
26	353.68	352.95	353.56	355.27	361.41	363.07	362.69	362.13	361.59	360.88	359.70	358.75
27	353.66	352.87	353.56	356.80	361.42	363.07	362.68	362.09	361.56	360.84	359.68	358.73
28	353.60	352.77	353.56	357.34	361.42	363.06	362.65	362.06	361.53	360.81	359.66	358.71
29	353.56	352.74	353.57	357.44	361.46	363.10	362.63	362.03	361.50	360.77	359.62	358.80
30	353.54	352.71	353.56	357.47	---	363.12	362.62	362.00	361.47	360.73	359.57	359.31
31	353.53	---	353.54	357.49	---	363.11	---	362.03	---	360.69	359.52	---
Mean	---	353.00	353.08	354.16	359.36	362.64	362.87	362.34	361.76	361.13	360.06	359.07
Max	---	353.50	353.57	357.49	361.46	364.17	363.09	362.59	362.02	361.43	360.65	359.48
Min	---	352.71	352.64	353.38	357.50	361.39	362.62	362.00	361.47	360.69	359.52	358.71

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