



Water-Data Report 2011

**08099000 Leon Reservoir near Ranger, TX**

Little Basin  
Leon Subbasin

LOCATION.--Lat 32°21'49", long 98°40'31" referenced to North American Datum of 1927, Eastland County, TX, Hydrologic Unit 12070201, behind Lake Patrol Office, 180 ft upstream from dam and 100 ft left of outlet works near left end of dam on Leon River, 7.4 mi south of Ranger, 8.7 mi southeast of Eastland, and 274.1 mi upstream from mouth.

DRAINAGE AREA.--259 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Jan. 1955 to Sept. 1983, Mar. 1999 to Sept. 2002 (contents), Oct. 2002 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Oct. 1969 to May 1983.

REVISED RECORDS.--WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. January 1955 to September 1983 nonrecording gage at same site and datum. Satellite telemeter at station.

COOPERATION.--Records of diversions may be obtained from the Eastland County Water Supply District.

REMARKS.--Records fair. The reservoir is formed by a rolled earthfill dam 3,700 ft long. Storage began in Apr. 1954 and dam was completed in June 1954. The emergency spillway is a 1,200-foot-wide cut through natural ground near the left end of dam. The service spillway is an uncontrolled circular concrete drop inlet designed for a maximum discharge of 5,000 ft<sup>3</sup>/s through an 11-foot-diameter concrete conduit. The dam is the property of Eastland County Water Supply District and was built to impound water for municipal use by the cities of Ranger, Olden, and Eastland. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,398.0
Crest of emergency spillway.....	1,382.0
Crest of service spillway.....	1,375.0
Lowest gated outlet (invert).....	1,335.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 40,640 acre-ft, June 13, 1967, elevation, 1,382.20 ft; minimum contents, 14,420 acre-ft, Oct. 15, 2000, elevation, 1,364.79 ft.

Maximum elevation observed, 1,385.60 ft, June 28, 2007; minimum elevation, 1,364.79 ft, Oct. 15, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,368.72 ft, Oct. 1; minimum elevation, 1,361.90 ft, Sept. 30.

## 08099000 Leon Reservoir near Ranger, 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	1,368.71	1,368.20	1,367.70	1,367.47	1,367.42	1,367.20	1,366.76	1,366.35	1,365.86	1,364.84	1,363.63	1,362.65
2	1,368.69	1,368.17	1,367.68	1,367.45	1,367.39	1,367.19	1,366.75	1,366.38	1,365.82	1,364.81	1,363.59	1,362.62
3	1,368.68	1,368.16	1,367.67	1,367.45	1,367.37	1,367.18	1,366.75	1,366.37	1,365.78	1,364.77	1,363.55	1,362.58
4	1,368.65	1,368.14	1,367.66	1,367.45	1,367.37	1,367.17	1,366.72	1,366.34	1,365.74	1,364.73	1,363.50	1,362.54
5	1,368.62	1,368.13	1,367.64	1,367.44	1,367.36	1,367.15	1,366.67	1,366.32	1,365.72	1,364.69	1,363.46	1,362.48
6	1,368.60	1,368.12	1,367.62	1,367.43	1,367.36	1,367.12	1,366.66	1,366.31	1,365.69	1,364.66	1,363.41	1,362.44
7	1,368.58	1,368.11	1,367.62	1,367.42	1,367.36	1,367.10	1,366.64	1,366.29	1,365.65	1,364.62	1,363.37	1,362.41
8	1,368.55	1,368.09	1,367.60	1,367.41	1,367.34	1,367.11	1,366.62	1,366.27	1,365.61	1,364.58	1,363.33	1,362.37
9	1,368.53	1,368.07	1,367.59	1,367.46	1,367.35	1,367.08	1,366.61	1,366.25	1,365.57	1,364.53	1,363.29	1,362.34
10	1,368.51	1,368.05	1,367.58	1,367.49	1,367.33	1,367.06	1,366.61	1,366.22	1,365.53	1,364.48	1,363.24	1,362.31
11	1,368.52	1,368.04	1,367.58	1,367.49	1,367.32	1,367.04	1,366.71	1,366.25	1,365.50	1,364.44	1,363.20	1,362.29
12	1,368.51	1,368.03	1,367.55	1,367.47	1,367.32	1,367.03	1,366.69	1,366.28	1,365.46	1,364.40	1,363.16	1,362.26
13	1,368.50	1,368.01	1,367.54	1,367.46	1,367.32	1,367.02	1,366.67	1,366.27	1,365.42	1,364.37	1,363.25	1,362.24
14	1,368.49	1,367.98	1,367.53	1,367.45	1,367.31	1,367.01	1,366.66	1,366.23	1,365.39	1,364.34	1,363.30	1,362.21
15	1,368.47	1,367.96	1,367.53	1,367.45	1,367.31	1,366.99	1,366.61	1,366.20	1,365.34	1,364.31	1,363.28	1,362.17
16	1,368.46	1,367.89	1,367.51	1,367.44	1,367.30	1,366.99	1,366.55	1,366.18	1,365.31	1,364.27	1,363.24	1,362.14
17	1,368.43	1,367.88	1,367.48	1,367.44	1,367.31	1,366.99	1,366.53	1,366.15	1,365.26	1,364.23	1,363.20	1,362.14
18	1,368.42	1,367.85	1,367.48	1,367.44	1,367.31	1,366.98	1,366.52	1,366.13	1,365.22	1,364.19	1,363.17	1,362.17
19	1,368.42	1,367.84	1,367.47	1,367.43	1,367.30	1,366.96	1,366.50	1,366.11	1,365.18	1,364.15	1,363.13	1,362.16
20	1,368.41	1,367.83	1,367.46	1,367.43	1,367.30	1,366.95	1,366.47	1,366.10	1,365.13	1,364.11	1,363.09	1,362.13
21	1,368.41	1,367.83	1,367.46	1,367.40	1,367.30	1,366.94	1,366.44	1,366.08	1,365.12	1,364.07	1,363.06	1,362.11
22	1,368.40	1,367.83	1,367.44	1,367.40	1,367.28	1,366.93	1,366.44	1,366.07	1,365.18	1,364.03	1,363.02	1,362.08
23	1,368.41	1,367.81	1,367.42	1,367.40	1,367.27	1,366.91	1,366.44	1,366.13	1,365.16	1,363.99	1,362.99	1,362.07
24	1,368.40	1,367.82	1,367.47	1,367.38	1,367.29	1,366.87	1,366.51	1,366.12	1,365.12	1,363.95	1,362.95	1,362.05
25	1,368.37	1,367.80	1,367.49	1,367.38	1,367.25	1,366.86	1,366.53	1,366.09	1,365.09	1,363.91	1,362.92	1,362.03
26	1,368.35	1,367.77	1,367.48	1,367.37	1,367.25	1,366.85	1,366.50	1,366.05	1,365.05	1,363.87	1,362.89	1,362.01
27	1,368.32	1,367.76	1,367.47	1,367.37	1,367.26	1,366.81	1,366.48	1,366.03	1,365.01	1,363.82	1,362.86	1,361.99
28	1,368.29	1,367.74	1,367.47	1,367.36	1,367.22	1,366.80	1,366.43	1,366.00	1,364.97	1,363.78	1,362.84	1,361.97
29	1,368.26	1,367.74	1,367.50	1,367.35	---	1,366.80	1,366.40	1,365.96	1,364.92	1,363.74	1,362.80	1,361.96
30	1,368.24	1,367.71	1,367.50	1,367.34	---	1,366.78	1,366.38	1,365.92	1,364.88	1,363.70	1,362.75	1,361.92
31	1,368.22	---	1,367.49	1,367.33	---	1,366.77	---	1,365.89	---	1,363.67	1,362.70	---
<b>Mean</b>	1,368.46	1,367.94	1,367.54	1,367.42	1,367.32	1,366.99	1,366.58	1,366.17	1,365.36	1,364.26	1,363.17	1,362.23
<b>Max</b>	1,368.71	1,368.20	1,367.70	1,367.49	1,367.42	1,367.20	1,366.76	1,366.38	1,365.86	1,364.84	1,363.63	1,362.65
<b>Min</b>	1,368.22	1,367.71	1,367.42	1,367.33	1,367.22	1,366.77	1,366.38	1,365.89	1,364.88	1,363.67	1,362.70	1,361.92

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