



Water-Data Report 2013

08088400 Lake Graham near Graham, TX

Middle Brazos-Bosque Basin
Middle Brazos-Palo Pinto Subbasin

LOCATION.--Lat 33°08'04", long 98°36'48" referenced to North American Datum of 1927, Young County, TX, Hydrologic Unit 12060201, near left end of earthen dam on Salt Creek, 2.2 mi northwest of Graham, 5.0 mi downstream from Briar Creek, and 9.5 mi upstream from mouth.

DRAINAGE AREA.--221 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1963 to Sept. 2002 (daily mean contents), Oct. 2002 to current year (daily mean elevation). Prior to Oct. 1965, end of month contents only.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: July 1971 to May 1984.

BIOCHEMICAL DATA: July 1971 to Oct. 1973.

RADIOCHEMICAL DATA: Jan. 1981.

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

GAGE.--Water-stage recorder. Datum of gage is 1.30 ft above NGVD of 1929. Prior to Oct. 1963, nonrecording gage at same site and datum. Satellite telemeter at station.

COOPERATION.--Capacity table was provided by Freese and Nichols Inc., Consulting Engineers. New capacity table from Texas Water Development Board hydrosurvey of June 1998 was put into use Oct. 1, 2000.

REMARKS.--Records good. Mar. 1958 to Sept. 1963 end of month contents were not published. The lake is formed by a rolled earthfill dam 5,000 ft long. Lake Graham was connected with Lake Eddleman in 1959 by a cut channel at an elevation of 1,050.0 ft. Deliberate impoundment began Apr. 28, 1958, and dam was completed in July 1958. The uncontrolled emergency spillway is a 1,050-foot-wide cut at the right end of dam. The spillway is designed to discharge 136,500 ft³/s at an elevation of 1,087.5 ft. The dam is the property of the city of Graham and was built to impound water for municipal and industrial uses. In addition, water is used by the Texas Electric Service Co. for operation of their steam generating powerplant. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,092.0
Crest of spillway.....	1,075.0
Bottom of interconnecting channel.....	1,050.0
Lowest gated outlet (invert).....	1,050.0

EXTREMES FOR PERIOD OF RECORD.--(period of daily mean contents) Maximum contents, 63,280 acre-ft, May 3, 1990, elevation 1,078.52 ft; minimum, 23,130 acre-ft Oct. 18, 2000, elevation 1,064.25 ft; (period of daily mean elevation) maximum elevation, 1,078.00 ft, Apr. 18, 2010; minimum elevation, 1,063.21 ft Apr. 21, 22, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,071.44 ft, Oct. 1, 2; minimum elevation, 1,065.71 ft, Sept. 27, 28.

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ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,071.43	1,070.95	1,070.48	1,070.11	1,069.96	1,069.72	1,069.29	1,068.90	1,068.37	1,068.01	1,067.37	1,066.43
2	1,071.41	1,070.94	1,070.47	1,070.09	1,069.94	1,069.71	1,069.29	1,068.86	1,068.34	1,067.96	1,067.33	1,066.40
3	1,071.38	1,070.93	1,070.47	1,070.08	1,069.93	1,069.69	1,069.28	1,068.82	1,068.30	1,067.93	1,067.29	1,066.37
4	1,071.37	1,070.91	1,070.46	1,070.07	1,069.92	1,069.68	1,069.28	1,068.80	1,068.26	1,067.89	1,067.25	1,066.33
5	1,071.36	1,070.89	1,070.43	1,070.06	1,069.92	1,069.66	1,069.26	1,068.77	1,068.23	1,067.84	1,067.21	1,066.29
6	1,071.33	1,070.87	1,070.42	1,070.06	1,069.91	1,069.63	1,069.25	1,068.76	1,068.25	1,067.79	1,067.16	1,066.26
7	1,071.30	1,070.86	1,070.41	1,070.05	1,069.91	1,069.61	1,069.24	1,068.74	1,068.24	1,067.76	1,067.12	1,066.22
8	1,071.25	1,070.83	1,070.40	1,070.05	1,069.89	1,069.60	1,069.23	1,068.71	1,068.21	1,067.73	1,067.08	1,066.20
9	1,071.23	1,070.82	1,070.39	1,070.07	1,069.87	1,069.62	1,069.23	1,068.70	1,068.24	1,067.70	1,067.05	1,066.17
10	1,071.22	1,070.80	1,070.35	1,070.09	1,069.87	1,069.62	1,069.25	1,068.69	1,068.23	1,067.67	1,067.02	1,066.12
11	1,071.21	1,070.79	1,070.33	1,070.09	1,069.85	1,069.59	1,069.25	1,068.68	1,068.21	1,067.64	1,066.98	1,066.09
12	1,071.21	1,070.76	1,070.31	---	1,069.89	1,069.57	1,069.25	1,068.65	1,068.19	1,067.61	1,067.01	1,066.07
13	1,071.20	1,070.74	1,070.29	---	1,069.88	1,069.56	1,069.23	1,068.62	1,068.17	1,067.57	1,066.98	1,066.04
14	1,071.21	1,070.72	1,070.28	1,070.08	1,069.87	1,069.55	1,069.22	1,068.60	1,068.15	1,067.54	1,066.95	1,066.02
15	1,071.22	1,070.70	1,070.29	1,070.07	1,069.86	1,069.54	1,069.20	1,068.58	1,068.12	1,067.56	1,066.92	1,066.00
16	1,071.21	1,070.69	1,070.28	1,070.06	1,069.83	1,069.53	1,069.20	1,068.57	1,068.09	1,067.66	1,066.93	1,065.98
17	1,071.20	1,070.67	1,070.27	1,070.05	1,069.82	1,069.52	1,069.17	1,068.57	1,068.12	1,067.67	1,066.90	1,065.97
18	1,071.17	1,070.65	1,070.26	1,070.04	1,069.81	1,069.50	1,069.18	1,068.59	1,068.25	1,067.67	1,066.87	1,065.94
19	1,071.15	1,070.64	1,070.25	1,070.03	1,069.79	1,069.48	1,069.14	1,068.57	1,068.37	1,067.66	1,066.84	1,065.92
20	1,071.13	1,070.63	1,070.22	1,070.03	1,069.82	1,069.47	1,069.10	1,068.54	1,068.38	1,067.65	1,066.81	1,065.92
21	1,071.12	1,070.62	1,070.20	1,070.01	1,069.83	1,069.44	1,069.08	1,068.54	1,068.36	1,067.61	1,066.77	1,065.91
22	1,071.13	1,070.61	1,070.18	1,070.00	1,069.82	1,069.43	1,069.06	1,068.53	1,068.32	1,067.59	1,066.74	1,065.88
23	1,071.15	1,070.60	1,070.18	1,070.00	1,069.81	1,069.41	1,069.04	1,068.51	1,068.28	1,067.57	1,066.71	1,065.85
24	1,071.13	1,070.57	1,070.17	1,069.99	1,069.79	1,069.40	1,069.01	1,068.50	1,068.24	1,067.54	1,066.68	1,065.83
25	1,071.11	1,070.56	1,070.16	1,069.98	1,069.79	1,069.37	1,068.98	1,068.51	1,068.20	1,067.51	1,066.65	1,065.80
26	1,071.07	1,070.55	1,070.15	1,069.97	1,069.77	1,069.34	1,068.96	1,068.49	1,068.17	1,067.50	1,066.61	1,065.77
27	1,071.02	1,070.52	1,070.13	1,069.97	1,069.76	1,069.31	1,068.96	1,068.47	1,068.15	1,067.50	1,066.57	1,065.74
28	1,071.00	1,070.50	1,070.13	1,069.97	1,069.74	1,069.30	1,068.95	1,068.44	1,068.12	1,067.47	1,066.55	1,065.76
29	1,070.98	1,070.49	1,070.11	1,070.00	---	1,069.30	1,068.93	1,068.42	1,068.09	1,067.44	1,066.51	1,065.77
30	1,070.96	1,070.48	1,070.09	1,069.99	---	1,069.31	1,068.91	1,068.41	1,068.06	1,067.41	1,066.48	1,065.74
31	1,070.96	---	1,070.11	1,069.97	---	1,069.31	---	1,068.39	---	1,067.39	1,066.46	---
Mean	1,071.19	1,070.71	1,070.28	---	1,069.85	1,069.51	1,069.15	1,068.61	1,068.22	1,067.65	1,066.90	1,066.03
Max	1,071.43	1,070.95	1,070.48	---	1,069.96	1,069.72	1,069.29	1,068.90	1,068.38	1,068.01	1,067.37	1,066.43
Min	1,070.96	1,070.48	1,070.09	---	1,069.74	1,069.30	1,068.91	1,068.39	1,068.06	1,067.39	1,066.46	1,065.74

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