

08086600 Lake Daniel near Breckenridge, TX

Middle Brazos-Clear Fork Basin
Hubbard Subbasin

LOCATION.--Lat 32°38'52", long 98°52'09" referenced to North American Datum of 1927, Stephens County, TX, Hydrologic Unit 12060105, 66 ft left and 128 ft upstream from service outlet structure at Gonzales Creek Dam, on Gonzales Creek, 2.0 miles east of U.S. Highway 183, 7.0 miles south of Breckenridge, and 16.0 miles upstream from mouth.

DRAINAGE AREA.--115 mi².

SURFACE-WATER RECORDS

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

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

COOPERATION.--Records of diversions may be obtained from the city of Breckenridge.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam 2,655 ft long. The dam was completed on Sept. 1, 1948 and first filled June 1949. The dam and reservoir are owned and operated by city of Breckenridge. Water is released from service spillway through three 18-inch gated outlets into two 8.0- by 8.0-ft conduits into Gonzales Creek and diverted from a downstream lake to the treatment plant. The unregulated service spillway, located near left end of dam, is a concrete drop inlet structure with double horseshoe conduits. The emergency spillway is located at left end of the dam, and is 1,500 ft in length. Lake was built for flood control, industrial, and municipal uses. Data regarding the dam are given in the following table:

| | Elevation (feet) |
|-----------------------------------|---------------------|
| Top of dam..... | 1,295.5 |
| Crest of emergency spillway..... | 1,284.5 |
| Crest of service spillway..... | 1,278.5 |
| Lowest gated outlet (invert)..... | 1,250.0 |

EXTREMES FOR PERIOD OF RECORD.--Mar. 1999 to Sept. 2002: Maximum contents, 4,400 acre-ft, Apr. 1, 1999; minimum contents, 200 acre-ft, Feb. 15, 2001; Mar. 1999 to current year: Maximum elevation, 1,282.76 ft, June 29, 2007; minimum elevation, 1,258.05 ft, on several days in 2003.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,270.98 ft, Apr. 4, 5, 6; minimum elevation, 1,267.63 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 | 1,269.80 | 1,269.34 | 1,268.88 | 1,268.53 | 1,268.40 | 1,268.17 | 1,267.74 | 1,270.53 | 1,269.97 | 1,269.36 | 1,268.88 | 1,268.11 |
| 2 | 1,269.79 | 1,269.32 | 1,268.87 | 1,268.53 | 1,268.39 | 1,268.16 | 1,269.23 | 1,270.49 | 1,269.95 | 1,269.32 | 1,268.85 | 1,268.08 |
| 3 | 1,269.77 | 1,269.31 | 1,268.86 | 1,268.52 | 1,268.38 | 1,268.15 | 1,270.91 | 1,270.47 | 1,269.92 | 1,269.30 | 1,268.82 | 1,268.04 |
| 4 | 1,269.74 | 1,269.29 | 1,268.85 | 1,268.51 | 1,268.37 | 1,268.12 | 1,270.97 | 1,270.45 | 1,269.89 | 1,269.27 | 1,268.79 | 1,268.02 |
| 5 | 1,269.72 | 1,269.28 | 1,268.84 | 1,268.50 | 1,268.37 | 1,268.09 | 1,270.97 | 1,270.44 | 1,269.86 | 1,269.24 | 1,268.76 | 1,267.99 |
| 6 | 1,269.69 | 1,269.26 | 1,268.82 | 1,268.48 | 1,268.36 | 1,268.08 | 1,270.96 | 1,270.43 | 1,269.85 | 1,269.20 | 1,268.72 | 1,267.97 |
| 7 | 1,269.67 | 1,269.25 | 1,268.81 | 1,268.48 | 1,268.35 | 1,268.07 | 1,270.95 | 1,270.42 | 1,269.83 | 1,269.17 | 1,268.68 | 1,267.96 |
| 8 | 1,269.66 | 1,269.24 | 1,268.80 | 1,268.49 | 1,268.33 | 1,268.06 | 1,270.94 | 1,270.40 | 1,269.81 | 1,269.14 | 1,268.65 | 1,267.95 |
| 9 | 1,269.64 | 1,269.21 | 1,268.78 | 1,268.58 | 1,268.33 | 1,268.06 | 1,270.93 | 1,270.38 | 1,269.81 | 1,269.11 | 1,268.62 | 1,267.92 |
| 10 | 1,269.63 | 1,269.20 | 1,268.76 | 1,268.63 | 1,268.35 | 1,268.04 | 1,270.91 | 1,270.37 | 1,269.79 | 1,269.08 | 1,268.59 | 1,267.90 |
| 11 | 1,269.63 | 1,269.17 | 1,268.75 | 1,268.63 | 1,268.34 | 1,268.02 | 1,270.91 | 1,270.36 | 1,269.76 | 1,269.06 | 1,268.57 | 1,267.87 |
| 12 | 1,269.62 | 1,269.15 | 1,268.74 | 1,268.62 | 1,268.35 | 1,268.01 | 1,270.90 | 1,270.34 | 1,269.73 | 1,269.05 | 1,268.54 | 1,267.85 |
| 13 | 1,269.62 | 1,269.13 | 1,268.72 | 1,268.60 | 1,268.35 | 1,267.99 | 1,270.88 | 1,270.31 | 1,269.70 | 1,269.02 | 1,268.51 | 1,267.83 |
| 14 | 1,269.60 | 1,269.12 | 1,268.72 | 1,268.59 | 1,268.33 | 1,267.97 | 1,270.85 | 1,270.29 | 1,269.67 | 1,268.99 | 1,268.48 | 1,267.82 |
| 15 | 1,269.58 | 1,269.10 | 1,268.72 | 1,268.57 | 1,268.31 | 1,267.96 | 1,270.84 | 1,270.27 | 1,269.66 | 1,269.04 | 1,268.46 | 1,267.80 |
| 16 | 1,269.56 | 1,269.09 | 1,268.71 | 1,268.57 | 1,268.30 | 1,267.94 | 1,270.82 | 1,270.25 | 1,269.64 | 1,269.21 | 1,268.48 | 1,267.77 |
| 17 | 1,269.54 | 1,269.08 | 1,268.69 | 1,268.56 | 1,268.29 | 1,267.91 | 1,270.82 | 1,270.24 | 1,269.61 | 1,269.25 | 1,268.47 | 1,267.75 |
| 18 | 1,269.52 | 1,269.06 | 1,268.68 | 1,268.55 | 1,268.27 | 1,267.89 | 1,270.80 | 1,270.21 | 1,269.58 | 1,269.25 | 1,268.44 | 1,267.73 |
| 19 | 1,269.51 | 1,269.05 | 1,268.67 | 1,268.54 | 1,268.26 | 1,267.88 | 1,270.78 | 1,270.18 | 1,269.62 | 1,269.23 | 1,268.41 | 1,267.72 |
| 20 | 1,269.49 | 1,269.04 | 1,268.63 | 1,268.53 | 1,268.28 | 1,267.86 | 1,270.76 | 1,270.16 | 1,269.74 | 1,269.20 | 1,268.39 | 1,267.77 |
| 21 | 1,269.47 | 1,269.03 | 1,268.62 | 1,268.52 | 1,268.28 | 1,267.84 | 1,270.73 | 1,270.12 | 1,269.71 | 1,269.18 | 1,268.36 | 1,267.79 |
| 22 | 1,269.47 | 1,269.02 | 1,268.61 | 1,268.52 | 1,268.26 | 1,267.82 | 1,270.71 | 1,270.09 | 1,269.67 | 1,269.15 | 1,268.34 | 1,267.77 |
| 23 | 1,269.49 | 1,268.99 | 1,268.60 | 1,268.51 | 1,268.25 | 1,267.83 | 1,270.67 | 1,270.07 | 1,269.63 | 1,269.12 | 1,268.31 | 1,267.74 |
| 24 | 1,269.48 | 1,268.98 | 1,268.59 | 1,268.51 | 1,268.25 | 1,267.80 | 1,270.65 | 1,270.09 | 1,269.59 | 1,269.10 | 1,268.30 | 1,267.72 |
| 25 | 1,269.45 | 1,268.97 | 1,268.58 | 1,268.49 | 1,268.22 | 1,267.79 | 1,270.64 | 1,270.13 | 1,269.56 | 1,269.07 | 1,268.27 | 1,267.70 |
| 26 | 1,269.42 | 1,268.95 | 1,268.57 | 1,268.48 | 1,268.21 | 1,267.77 | 1,270.62 | 1,270.12 | 1,269.52 | 1,269.04 | 1,268.24 | 1,267.67 |
| 27 | 1,269.40 | 1,268.92 | 1,268.57 | 1,268.48 | 1,268.19 | 1,267.76 | 1,270.61 | 1,270.10 | 1,269.48 | 1,269.01 | 1,268.22 | 1,267.65 |
| 28 | 1,269.38 | 1,268.91 | 1,268.56 | 1,268.47 | 1,268.18 | 1,267.74 | 1,270.59 | 1,270.08 | 1,269.45 | 1,268.98 | 1,268.21 | 1,267.67 |
| 29 | 1,269.37 | 1,268.90 | 1,268.55 | 1,268.46 | --- | 1,267.73 | 1,270.58 | 1,270.07 | 1,269.42 | 1,268.96 | 1,268.18 | 1,267.71 |
| 30 | 1,269.36 | 1,268.89 | 1,268.54 | 1,268.43 | --- | 1,267.77 | 1,270.56 | 1,270.04 | 1,269.39 | 1,268.93 | 1,268.16 | 1,267.69 |
| 31 | 1,269.35 | --- | 1,268.55 | 1,268.42 | --- | 1,267.75 | --- | 1,270.01 | --- | 1,268.90 | 1,268.13 | --- |
| Mean | 1,269.56 | 1,269.11 | 1,268.70 | 1,268.53 | 1,268.31 | 1,267.94 | 1,270.64 | 1,270.26 | 1,269.69 | 1,269.13 | 1,268.48 | 1,267.83 |
| Max | 1,269.80 | 1,269.34 | 1,268.88 | 1,268.63 | 1,268.40 | 1,268.17 | 1,270.97 | 1,270.53 | 1,269.97 | 1,269.36 | 1,268.88 | 1,268.11 |
| Min | 1,269.35 | 1,268.89 | 1,268.54 | 1,268.42 | 1,268.18 | 1,267.73 | 1,267.74 | 1,270.01 | 1,269.39 | 1,268.90 | 1,268.13 | 1,267.65 |

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