



Water-Data Report 2008

**08143000 Lake Brownwood near Brownwood, TX**

Middle Colorado-Concho Basin  
Pecan Bayou Subbasin

LOCATION.--Lat 31°50'13", long 99°00'13" referenced to North American Datum of 1927, Brown County, TX, Hydrologic Unit 12090107, on abandoned service outlet structure near center of dam on Pecan Bayou, 0.2 mi downstream from Jim Ned Creek, 8.0 mi north of Brownwood, and 57.1 mi upstream from mouth.

DRAINAGE AREA.--1,565 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--July 1933 to May 1941, Nov. 1944 to Sept. 1986, and Feb. 1999 to Sept. 2002 (contents), Oct. 2002 to current year. Fragmentary records July 1934 to Apr. 1935 and Oct. 1940 to May 1941. Prior to Oct. 1970, published as "Brownwood Reservoir". Water-quality records: Chemical data: Oct. 1970 to Apr. 1984.

REVISED RECORDS.--WSP 1212: 1948-50. WDR TX-81-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. From July 1933 to May 1941, July 23, 1946 to May 12, 1948, non-recording gage at irrigation outlet structure near right end of dam, Nov. 21, 1944 to July 22, 1946, water-stage recorder on irrigation outlet structure near right end of dam, May 13, 1948 to June 30, 1949, water-stage recorder in right downstream corner of outlet control tower, July 1, 1949 to Sept. 30, 1986, non-recording gage at irrigation outlet structure near right end of dam, all at datum 0.50 ft higher. Prior to Feb. 1999, non-recording gages at the same site at datum 0.50 ft higher. Satellite telemeter at station.

COOPERATION.--Records of diversions may be obtained from the Brown County Water Improvement District No. 1.

REMARKS.--Records good. The lake is formed by a rolled earthfill dam, 1,580 ft long. The dam was completed in 1933 and deliberate impoundment began in July 1933. In Aug. 1983, work was completed to reinforce backside of dam, which raised the top 20 ft. The uncontrolled emergency spillway is a broad-crested weir 479 ft long located 800 ft to left of dam. The controlled service spillway consists of two 48-inch horseshoe-shaped concrete conduits. Water is used for irrigation, municipal, and industrial supply. Flow is affected at times by discharge from the flood-detention pools of 59 floodwater-retarding structures with a combined capacity of 73,310 acre-ft. These structures control runoff from 353 mi<sup>2</sup> in the Jim Ned Creek and Pecan Bayou drainage basins. The dam is owned by Brown County WID No. 1. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	1,470.0
Crest of spillway.....	1,424.6
Lowest gated outlet (invert).....	1,329.5

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 198,000 acre-ft, July 7, 2002, elevation, 1,432.12 ft; minimum contents observed, 11,900 acre-ft, July 15, 1934, elevation, 1,389.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,424.29 ft, Oct. 1; minimum elevation, 1,420.45 ft, Sept. 8.

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**ELEVATION ABOVE NGVD 1929, FEET**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,424.28	1,423.72	1,423.47	1,423.22	1,423.00	1,422.83	1,423.84	1,423.46	1,422.75	1,421.86	1,420.90	1,420.68
2	1,424.26	1,423.70	1,423.48	1,423.21	1,422.99	1,422.81	1,423.82	1,423.44	1,422.71	1,421.84	1,420.91	1,420.66
3	1,424.23	1,423.69	1,423.46	1,423.19	1,422.99	1,422.88	1,423.82	1,423.41	1,422.67	1,421.82	1,420.87	1,420.64
4	1,424.21	1,423.68	1,423.45	1,423.18	1,422.99	1,422.86	1,423.84	1,423.38	1,422.61	1,421.79	1,420.84	1,420.59
5	1,424.18	1,423.67	1,423.44	1,423.18	1,423.00	1,422.84	1,423.82	1,423.36	1,422.56	1,421.76	1,420.80	1,420.56
6	1,424.16	1,423.64	1,423.43	1,423.18	1,422.98	1,422.86	1,423.81	1,423.37	1,422.52	1,421.73	1,420.85	1,420.52
7	1,424.14	1,423.62	1,423.42	1,423.18	1,422.97	1,422.86	1,423.80	1,423.37	1,422.48	1,421.69	1,420.86	1,420.49
8	1,424.13	1,423.61	1,423.42	1,423.18	1,422.96	1,422.83	1,423.79	1,423.34	1,422.44	1,421.68	1,420.82	1,420.56
9	1,424.11	1,423.60	1,423.42	1,423.16	1,422.95	1,422.81	1,423.76	1,423.31	1,422.40	1,421.67	1,420.79	1,421.58
10	1,424.08	1,423.59	1,423.39	1,423.16	1,422.94	1,422.83	1,423.81	1,423.29	1,422.37	1,421.65	1,420.75	1,421.73
11	1,424.08	1,423.58	1,423.40	1,423.15	1,422.93	1,422.83	1,423.78	1,423.25	1,422.32	1,421.62	1,420.73	1,421.73
12	1,424.07	1,423.57	1,423.41	1,423.14	1,422.94	1,422.82	1,423.76	1,423.21	1,422.28	1,421.59	1,420.70	1,421.71
13	1,424.05	1,423.57	1,423.41	1,423.12	1,422.92	1,422.82	1,423.73	1,423.19	1,422.24	1,421.57	1,420.67	1,421.71
14	1,424.02	1,423.56	1,423.40	1,423.12	1,422.91	1,422.81	1,423.70	1,423.20	1,422.20	1,421.53	1,420.63	1,421.68
15	1,424.07	1,423.53	1,423.41	1,423.11	1,422.91	1,422.80	1,423.67	1,423.20	1,422.17	1,421.49	1,420.60	1,421.65
16	1,424.07	1,423.51	1,423.38	1,423.10	1,422.95	1,422.77	1,423.65	1,423.17	1,422.13	1,421.45	1,420.63	1,421.62
17	1,424.06	1,423.49	1,423.37	1,423.09	1,422.96	1,422.77	1,423.64	1,423.16	1,422.08	1,421.44	1,420.65	1,421.60
18	1,424.03	1,423.48	1,423.36	1,423.08	1,422.95	1,423.07	1,423.64	1,423.14	1,422.04	1,421.40	1,420.72	1,421.57
19	1,423.99	1,423.48	1,423.35	1,423.07	1,422.94	1,423.58	1,423.62	1,423.12	1,421.98	1,421.36	1,420.89	1,421.55
20	1,423.97	1,423.47	1,423.36	1,423.05	1,422.94	1,423.75	1,423.60	1,423.10	1,422.01	1,421.32	1,420.91	1,421.54
21	1,423.94	1,423.46	1,423.34	1,423.04	1,422.94	1,423.81	1,423.60	1,423.07	1,421.98	1,421.29	1,420.89	1,421.52
22	1,423.95	1,423.43	1,423.34	1,423.05	1,422.92	1,423.84	1,423.59	1,423.04	1,421.95	1,421.24	1,420.87	1,421.49
23	1,423.90	1,423.39	1,423.31	1,423.03	1,422.91	1,423.86	1,423.57	1,423.01	1,421.93	1,421.21	1,420.85	1,421.47
24	1,423.88	1,423.42	1,423.30	1,423.03	1,422.90	1,423.86	1,423.56	1,422.99	1,421.89	1,421.17	1,420.83	1,421.46
25	1,423.85	1,423.52	1,423.29	1,423.05	1,422.90	1,423.85	1,423.55	1,422.97	1,421.85	1,421.14	1,420.82	1,421.44
26	1,423.82	1,423.51	1,423.29	1,423.06	1,422.88	1,423.85	1,423.53	1,422.94	1,421.81	1,421.11	1,420.81	1,421.42
27	1,423.80	1,423.50	1,423.27	1,423.05	1,422.85	1,423.86	1,423.54	1,422.91	1,421.76	1,421.07	1,420.79	1,421.40
28	1,423.79	1,423.49	1,423.27	1,423.05	1,422.84	1,423.86	1,423.53	1,422.88	1,421.72	1,421.02	1,420.77	1,421.38
29	1,423.77	1,423.48	1,423.25	1,423.05	1,422.83	1,423.84	1,423.50	1,422.85	1,421.80	1,420.97	1,420.75	1,421.35
30	---	1,423.47	1,423.25	1,423.03	---	1,423.84	1,423.47	1,422.82	1,421.86	1,420.95	1,420.72	1,421.33
31	---	---	1,423.24	1,423.03	---	1,423.84	---	1,422.78	---	1,420.92	1,420.70	---
<b>Mean</b>	---	1,423.55	1,423.37	1,423.11	1,422.93	1,423.25	1,423.68	1,423.15	1,422.18	1,421.43	1,420.79	1,421.29
<b>Max</b>	---	1,423.72	1,423.48	1,423.22	1,423.00	1,423.86	1,423.84	1,423.46	1,422.75	1,421.86	1,420.91	1,421.73
<b>Min</b>	---	1,423.39	1,423.24	1,423.03	1,422.83	1,422.77	1,423.47	1,422.78	1,421.72	1,420.92	1,420.60	1,420.49

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