



Water-Data Report 2006

08045800 Lake Weatherford near Weatherford, TX

Upper Trinity Basin
Lower West Fork Trinity Subbasin

LOCATION.--Lat 32°46'21", long 97°40'28" referenced to North American Datum of 1927, Parker County, TX, Hydrologic Unit 12030102, in pumphouse 168 ft upstream from right end of dam on Clear Fork Trinity River, 2.4 mi downstream from Hays Branch, 3.9 mi upstream from Squaw Creek, and 7.3 mi east of Weatherford.

DRAINAGE AREA.--109 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1976 to May 1980, Aug. 1998 to Sept. 2002 (contents), Oct. 2002 to current year. Water-quality records: Chemical data: Oct. 1978 to Sept. 1979.

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

REMARKS.--Records good. The lake is formed by a rolled earthfilled dam 4,055 ft long. The dam was completed and deliberate impoundment began in Mar. 1957. The service spillway is a semi-circular drip inlet with a crest length of 162 ft located 550 ft to the right of the pumphouse. The drop inlet discharges into a 9 x 9 ft concrete conduit that extends 425 ft under the dam. The emergency spillway is an uncontrolled excavated split-level cut channel located at the right end of the dam. The low-flow outlet works consist of an 18 in diameter concrete pipe with a valve control assembly. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	914.0
Crest of Spillway.....	903.0
Invert of drop inlet (spillway).....	896.0
Invert of lowest gated outlet pipe.....	857.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 23,560 acre-ft, Mar. 27, 1977, elevation, 899.65 ft, from floodmark; minimum contents, 12,880 acre-ft, Jan. 9, 10, 1979, elevation, 889.99 ft, minimum elevation, 886.40 ft, Aug. 27, 2006.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 891.87 ft, Oct. 1; minimum elevation, 886.40 ft, Aug. 27.

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ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	891.84	890.80	889.98	889.39	889.14	888.99	889.09	889.34	889.60	---	886.64	886.67
2	891.81	890.77	889.94	889.37	889.13	888.98	889.10	889.35	889.57	---	886.58	886.71
3	891.77	890.73	889.93	889.34	889.13	888.95	889.09	889.40	889.54	---	886.53	886.72
4	891.73	890.70	889.90	889.32	889.11	888.93	889.07	889.46	889.50	---	886.52	886.82
5	891.70	890.68	889.86	889.30	889.09	888.91	889.06	889.69	889.45	---	886.52	886.90
6	891.65	890.66	889.83	889.27	889.07	888.91	889.06	890.04	889.41	---	886.51	886.90
7	891.59	890.63	889.82	889.25	889.04	888.89	889.06	890.18	889.37	---	886.50	886.91
8	891.55	890.61	889.79	889.23	889.03	888.88	889.02	890.20	889.33	---	886.49	886.92
9	891.51	890.60	889.77	889.21	889.01	888.88	888.99	890.20	889.28	---	886.49	886.95
10	891.47	890.56	889.75	889.19	889.00	888.84	888.98	890.20	889.23	887.85	886.48	886.97
11	891.44	890.54	889.74	889.16	888.97	888.82	888.96	890.16	889.18	887.81	886.47	886.99
12	891.42	890.52	889.72	889.15	888.93	888.80	888.96	890.13	889.13	---	886.46	887.01
13	891.39	890.50	889.69	889.13	888.90	888.79	888.96	890.10	889.09	---	886.45	887.01
14	891.37	890.47	889.69	889.09	888.88	888.74	888.94	890.08	889.04	---	886.45	887.02
15	891.34	890.44	889.66	889.06	888.86	888.70	888.92	890.04	888.97	887.52	886.46	887.03
16	891.30	890.38	889.64	889.05	888.86	888.69	888.92	890.00	888.90	887.47	886.46	887.04
17	891.26	890.34	889.62	889.02	888.82	888.68	888.90	889.97	888.87	887.42	886.46	887.06
18	891.23	890.32	889.61	888.99	888.80	888.71	888.89	889.94	888.91	887.38	886.46	887.06
19	891.19	890.29	889.59	888.97	888.77	888.88	888.87	889.91	888.87	887.32	886.45	887.05
20	891.16	890.27	889.58	889.03	888.75	889.15	888.98	889.87	888.83	887.26	886.45	887.07
21	891.12	890.23	889.58	889.05	888.75	889.17	889.03	889.83	888.78	887.25	886.45	887.09
22	891.08	890.21	889.57	---	888.74	889.15	889.04	889.79	888.75	887.23	886.44	887.11
23	891.04	890.19	889.55	---	888.73	889.15	889.03	889.74	888.73	887.18	886.44	887.11
24	890.99	890.16	889.55	889.20	888.74	889.13	889.02	889.70	888.71	887.12	886.45	887.10
25	890.95	890.14	889.52	889.18	888.95	---	889.02	889.67	888.69	887.06	886.43	887.09
26	890.92	890.12	889.50	889.16	889.00	---	888.99	889.72	888.62	887.00	886.43	887.08
27	890.89	890.12	889.49	889.15	889.00	889.07	888.96	889.75	888.59	886.95	886.42	887.09
28	890.86	890.07	889.47	889.18	889.00	889.06	888.98	889.69	---	886.89	886.62	887.06
29	890.82	890.03	889.45	889.19	---	889.07	889.25	889.64	---	886.84	886.66	887.01
30	890.79	890.00	889.43	889.17	---	889.07	889.35	889.59	---	886.78	886.66	887.00
31	890.80	---	889.40	889.15	---	889.09	---	889.59	---	886.71	886.66	---
Mean	891.29	890.40	889.67	---	888.94	---	889.02	889.84	---	---	886.50	886.99
Max	891.84	890.80	889.98	---	889.14	---	889.35	890.20	---	---	886.66	887.11
Min	890.79	890.00	889.40	---	888.73	---	888.87	889.34	---	---	886.42	886.67

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