



Water-Data Report 2008

08045000 Eagle Mountain Reservoir above Fort Worth, TX

Upper Trinity Basin
Upper West Fork Trinity Subbasin

LOCATION.--Lat 32°52'39", long 97°28'29" referenced to North American Datum of 1927, Tarrant County, TX, Hydrologic Unit 12030101, at left end of main section of Eagle Mountain Dam on West Fork Trinity River, 11.8 mi northwest of Fort Worth and at mile 583.3.

DRAINAGE AREA.--1,970 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Feb. 1934 to current year. Prior to Oct. 1943 end of month values only. Water-quality records: Chemical data: Jan. to July 1964, Aug. 2006.

REVISED RECORDS.--WSP 1922: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Oct. 16, 1988, nonrecording gages at several sites within 1.0 mi of present site at present datum. Satellite telemeter at station.

COOPERATION.--Capacity table, No. 5, furnished by Tarrant Regional Water District, was put into use Oct. 1, 2003.

REMARKS.--Records good. The reservoir is formed by two sections of rolled earthfill and a concrete spillway separated by high natural ground. Total length of the dam including spillway is 4,800 ft. The dam was completed Oct. 24, 1932, and storage began Feb. 24, 1934. The spillway is a 1,300-ft-wide cut through natural ground located between the two sections of earthfill that make up the dam. The original service spillway, located in the section to the right of the main dam, contains a concrete spillway with four 25-ft bays, three are equipped with vertical lift gates and the fourth is left open. In 1971, a side-channel spillway was constructed. The newest spillway is located 300 ft to the left of the original service spillway and has six 11.25 x 22-ft-wide roller lift gates. The main section of the dam contains the outlet works that consist of two concrete conduits with two 48-in diameter valves in each conduit. The dam is owned by the Tarrant Regional Water District. The reservoir is used for flood control and for part of the municipal water supply for the city of Fort Worth. Conservation pool storage is 190,300 acre-ft. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	682.0
Crest of spillway.....	676.0
Top of gates (new side-channel spillway).....	659.0
Crest of (old service) spillway.....	649.1
Crest of spillway (new side-channel spillway).....	637.0
Lowest gated outlet (invert).....	599.9

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 333,500 acre-ft, Apr. 26, 1942, elevation, 659.9 ft; minimum contents observed since first appreciable storage in 1935, 57,690 acre-ft, Nov. 19, 20, 1956, elevation, 629.3 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 187,600 acre-ft, Mar. 21, elevation, 649.70 ft; minimum contents, 154,600 acre-ft, Sept. 30, elevation, 645.71 ft.

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RESERVOIR STORAGE, ACRE 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	172,100	170,200	163,600	160,400	160,800	159,800	182,800	182,700	182,600	170,800	162,200	161,000
2	171,900	170,000	163,900	160,000	160,900	159,600	182,500	182,900	182,200	170,500	162,100	161,000
3	171,800	169,900	163,300	159,600	161,000	161,400	182,500	182,800	181,500	170,300	161,800	160,400
4	171,600	169,800	163,100	159,400	161,200	162,500	183,500	182,600	180,600	170,100	161,600	159,800
5	171,500	169,700	163,100	159,500	161,400	163,100	183,400	182,600	179,600	169,900	161,400	159,400
6	171,500	169,300	162,800	159,500	161,100	163,600	183,400	183,400	179,500	169,500	160,900	159,000
7	171,400	168,700	162,800	159,600	161,000	163,900	183,100	184,100	178,900	169,200	160,800	158,600
8	171,500	168,500	162,900	159,700	160,900	163,900	183,200	184,400	178,300	169,000	160,600	158,400
9	171,400	168,400	162,700	159,400	160,800	164,300	183,100	184,500	177,900	168,900	160,300	158,800
10	171,100	168,200	162,200	159,500	160,700	168,100	183,800	184,600	177,500	168,500	159,900	159,000
11	171,000	167,900	162,300	159,400	160,700	171,300	183,900	184,500	176,700	168,000	159,800	159,100
12	170,800	167,800	162,700	159,500	161,000	173,900	183,100	184,100	175,900	167,500	159,700	159,000
13	170,400	167,700	162,800	159,400	160,500	175,200	181,900	184,100	175,300	167,200	159,400	159,200
14	170,200	167,500	162,800	159,500	160,400	175,500	180,900	184,600	174,800	166,800	159,200	159,000
15	171,000	166,700	163,000	159,400	160,600	175,500	180,700	184,700	174,200	166,500	159,900	158,400
16	171,100	166,000	162,700	159,500	161,000	175,200	180,500	184,600	173,500	166,300	159,800	157,800
17	171,200	165,700	162,500	159,500	161,600	175,000	181,000	184,600	172,900	166,000	159,800	157,300
18	171,100	165,400	162,500	159,400	161,700	178,000	181,900	184,600	172,400	165,600	161,100	156,900
19	170,900	165,100	162,500	159,500	161,600	183,100	182,000	184,500	172,400	165,300	162,600	156,700
20	170,700	164,600	162,600	159,300	161,700	184,300	182,000	184,500	172,600	165,100	163,000	156,500
21	170,600	164,500	162,300	159,500	161,700	186,800	182,300	184,100	172,400	164,900	163,200	156,400
22	171,200	163,900	162,300	159,800	161,500	186,300	182,500	183,800	172,000	164,500	163,100	156,400
23	171,000	163,500	161,700	159,800	161,200	183,900	182,500	183,700	171,600	164,200	163,100	156,300
24	171,000	163,500	161,600	160,000	161,100	181,600	183,500	183,600	171,200	163,800	162,900	156,100
25	170,600	164,300	161,400	160,100	161,100	181,500	183,900	183,600	170,800	163,400	162,700	155,800
26	170,500	164,300	161,500	160,400	160,900	181,700	183,700	183,400	170,500	163,100	162,300	155,600
27	170,500	164,100	161,300	160,600	160,300	182,000	183,800	183,200	170,100	162,700	162,000	155,400
28	170,500	164,000	161,200	160,700	160,000	182,400	183,500	183,500	169,900	162,400	161,900	155,200
29	170,500	163,900	160,900	161,400	160,100	182,300	183,100	183,400	170,700	162,000	161,700	155,100
30	170,400	163,700	160,800	161,000	---	182,400	182,700	183,100	170,900	161,800	161,500	154,900
31	170,400	---	160,700	161,200	---	182,400	---	182,800	---	162,300	161,200	---
Mean	171,000	166,600	162,300	159,900	161,000	174,500	182,700	183,800	175,000	166,300	161,300	157,800
Max	172,100	170,200	163,900	161,400	161,700	186,800	183,900	184,700	182,600	170,800	163,200	161,000
Min	170,200	163,500	160,700	159,300	160,000	159,600	180,500	182,600	169,900	161,800	159,200	154,900

	Calendar Year 2007	Water Year 2008
Mean	158,400	168,500
Max	194,200	186,800
Min	107,800	154,900

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