



Water-Data Report 2012

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, in valve house 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.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Jan. to July 1964, Aug. 2006.
BIOCHEMICAL DATA: Jan. to July 1964.

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 the Tarrant Regional Water District, was put into use beginning Oct. 1, 2003. A new capacity table, Table No. 6, was furnished by the Texas Water Development Board and was put into use beginning Oct. 1, 2009.

REMARKS.--Records good. Some records listed in the Period of Record for surface water and water quality may not be available electronically. 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 179,880 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, 188,000 acre-ft, Mar. 20, elevation, 650.04 ft; minimum contents, 125,900 acre-ft, Nov. 21, Dec. 3, elevation, 642.25 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	130,400	131,400	126,200	133,500	173,300	179,000	181,200	177,400	167,900	153,200	144,400	142,300
2	130,000	131,200	126,300	133,500	173,700	179,200	181,200	177,300	167,400	152,600	144,200	142,200
3	129,700	130,800	126,300	133,300	173,900	178,900	181,500	177,100	166,900	152,200	143,900	142,000
4	129,400	130,200	127,300	133,300	174,200	178,700	182,000	176,800	166,500	151,700	143,700	141,900
5	129,000	129,800	128,400	133,300	174,000	178,500	181,900	176,500	166,200	151,200	143,600	141,800
6	128,600	129,400	128,600	133,200	173,900	178,100	181,900	176,200	165,900	150,800	143,600	141,600
7	128,200	129,200	128,600	133,200	174,000	178,200	181,700	176,200	166,300	150,400	143,600	141,700
8	128,100	129,200	128,700	133,100	174,000	178,700	181,800	175,900	166,200	150,000	143,700	141,900
9	130,600	129,000	129,000	133,900	173,900	178,400	181,800	175,500	165,700	149,600	143,700	141,700
10	131,500	128,500	129,100	135,100	174,500	178,500	181,800	175,100	165,100	149,300	143,800	141,800
11	131,800	128,100	129,200	136,000	174,600	179,800	181,600	175,200	164,700	149,100	143,700	141,600
12	132,900	127,900	129,300	136,500	174,600	180,900	181,400	175,800	164,300	148,600	143,600	141,500
13	133,700	127,800	129,400	136,600	175,100	180,800	181,100	175,700	163,800	148,100	143,900	141,900
14	134,000	127,700	129,600	137,000	175,600	180,700	180,800	175,500	163,300	147,700	143,900	142,200
15	134,100	127,600	130,400	137,100	176,000	181,100	181,000	175,200	163,200	147,300	145,000	142,300
16	134,100	127,500	131,200	137,500	176,300	181,300	181,000	174,900	162,700	146,900	145,600	142,500
17	134,100	127,000	131,300	138,100	176,600	181,300	180,800	174,500	162,200	146,700	145,500	142,700
18	134,500	126,600	131,500	138,100	177,700	181,300	180,500	173,800	161,500	146,400	145,400	142,900
19	134,100	126,400	131,700	138,300	179,000	181,500	180,200	173,100	160,900	146,100	146,400	142,900
20	133,800	126,500	132,100	138,500	179,200	186,500	180,300	172,700	160,300	145,800	147,400	142,900
21	133,600	126,300	132,100	138,700	179,400	184,600	180,000	172,300	160,000	145,700	147,500	143,000
22	133,600	126,800	132,300	138,800	179,500	183,500	180,000	171,800	159,500	145,500	147,100	143,200
23	133,700	127,200	132,400	139,000	179,600	182,400	179,700	171,100	158,900	145,200	146,500	143,300
24	133,600	127,200	132,500	139,500	179,500	182,400	179,400	170,500	158,300	145,000	145,900	143,300
25	133,400	127,100	132,700	152,500	179,200	182,800	179,100	170,000	157,500	144,800	145,200	143,100
26	133,100	127,400	132,900	161,300	179,000	182,800	179,000	169,500	156,800	145,100	144,800	143,100
27	133,100	127,100	133,000	165,900	179,200	182,700	178,600	169,000	156,000	145,300	144,400	143,100
28	132,700	126,600	133,100	169,900	179,100	182,000	178,300	168,600	155,200	145,200	143,900	143,100
29	132,200	126,500	133,200	171,200	179,200	181,400	178,100	168,400	154,500	145,000	143,400	143,800
30	131,900	126,300	133,300	171,900	---	181,400	177,800	168,000	153,900	144,700	143,000	144,900
31	131,700	---	133,400	172,600	---	181,400	---	168,300	---	144,500	142,600	---
Mean	132,100	128,000	130,500	142,900	176,500	180,900	180,500	173,500	162,100	147,700	144,600	142,500
Max	134,500	131,400	133,400	172,600	179,600	186,500	182,000	177,400	167,900	153,200	147,500	144,900
Min	128,100	126,300	126,200	133,100	173,300	178,100	177,800	168,000	153,900	144,500	142,600	141,500

	Calendar Year 2011	Water Year 2012
Mean	147,000	153,400
Max	165,800	186,500
Min	126,200	126,200

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