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 mi^2.

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, 150,900 acre-ft, June 19, 20, 21, elevation, 645.59 ft; minimum contents, 126,800 acre-ft, Sept. 30, elevation, 642.38 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 08045000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/08045000.2013.pdf

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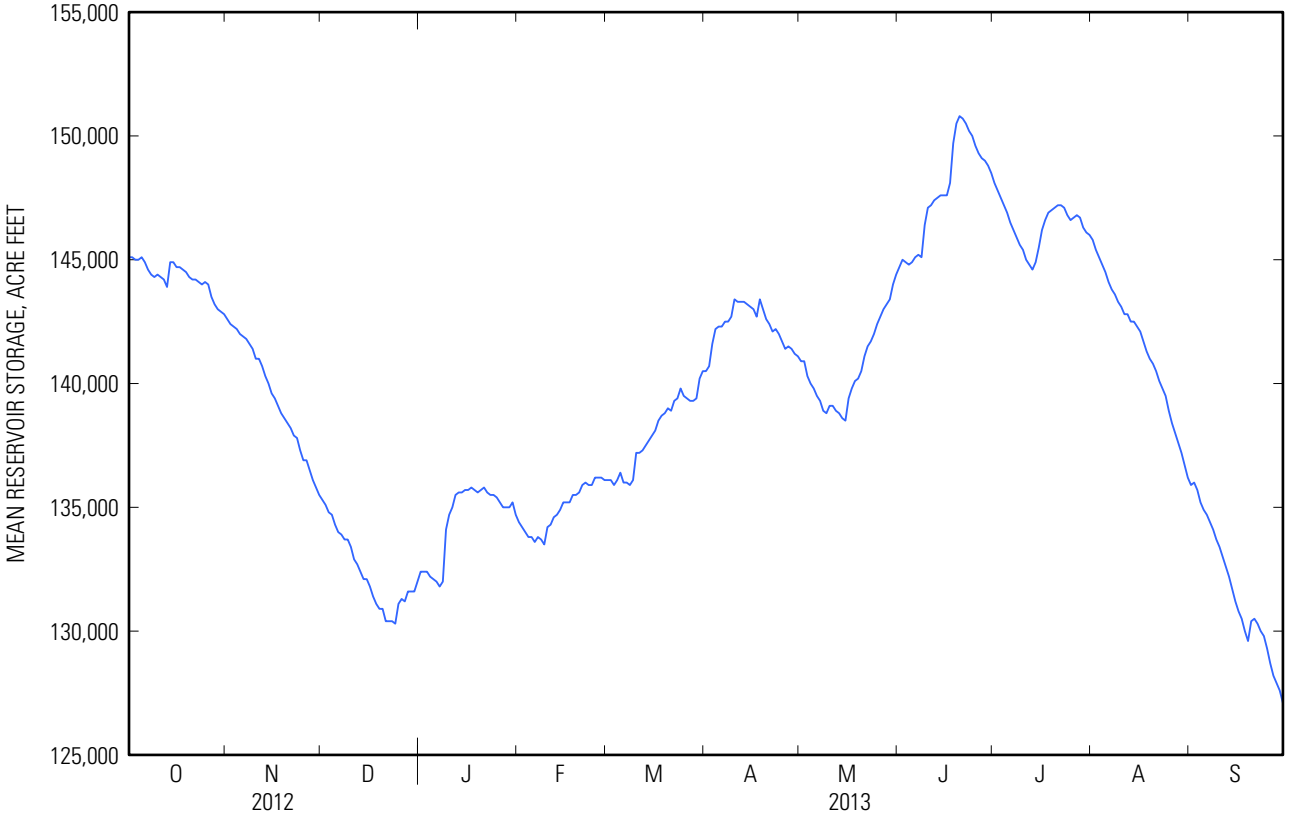
RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	145,100	142,600	135,300	132,400	134,400	136,100	140,500	140,900	144,700	148,100	145,800	135,900
2	145,100	142,400	135,100	132,400	134,200	136,100	140,700	140,900	145,000	147,800	145,400	136,000
3	145,000	142,300	134,800	132,400	134,000	135,900	141,600	140,300	144,900	147,500	145,100	135,700
4	145,000	142,200	134,700	132,200	133,800	136,100	142,200	140,000	144,800	147,200	144,800	135,200
5	145,100	142,000	134,300	132,100	133,800	136,400	142,300	139,800	144,900	146,900	144,500	134,900
6	144,900	141,900	134,000	132,000	133,600	136,000	142,300	139,500	145,100	146,500	144,100	134,700
7	144,600	141,800	133,900	131,800	133,800	136,000	142,500	139,300	145,200	146,200	143,800	134,400
8	144,400	141,600	133,700	132,000	133,700	135,900	142,500	138,900	145,100	145,900	143,600	134,100
9	144,300	141,400	133,700	134,100	133,500	136,100	142,700	138,800	146,400	145,600	143,300	133,700
10	144,400	141,000	133,400	134,700	134,200	137,200	143,400	139,100	147,100	145,400	143,100	133,400
11	144,300	141,000	132,900	135,000	134,300	137,200	143,300	139,100	147,200	145,000	142,800	133,000
12	144,200	140,700	132,700	135,500	134,600	137,300	143,300	138,900	147,400	144,800	142,800	132,600
13	143,900	140,300	132,400	135,600	134,700	137,500	143,300	138,800	147,500	144,600	142,500	132,200
14	144,900	140,000	132,100	135,600	134,900	137,700	143,200	138,600	147,600	144,900	142,500	131,700
15	144,900	139,600	132,100	135,700	135,200	137,900	143,100	138,500	147,600	145,500	142,300	131,200
16	144,700	139,400	131,800	135,700	135,200	138,100	143,000	139,400	147,600	146,200	142,100	130,800
17	144,700	139,100	131,400	135,800	135,200	138,500	142,700	139,800	148,100	146,600	141,700	130,500
18	144,600	138,800	131,100	135,700	135,500	138,700	143,400	140,100	149,700	146,900	141,300	130,000
19	144,500	138,600	130,900	135,600	135,500	138,800	143,000	140,200	150,500	147,000	141,000	129,600
20	144,300	138,400	130,900	135,700	135,600	139,000	142,600	140,500	150,800	147,100	140,800	130,400
21	144,200	138,200	130,400	135,800	135,900	138,900	142,400	141,100	150,700	147,200	140,500	130,500
22	144,200	137,900	130,400	135,600	136,000	139,300	142,100	141,500	150,500	147,200	140,100	130,300
23	144,100	137,800	130,400	135,500	135,900	139,400	142,200	141,700	150,200	147,100	139,800	130,000
24	144,000	137,300	130,300	135,500	135,900	139,800	142,000	142,000	150,000	146,800	139,500	129,800
25	144,100	136,900	131,100	135,400	136,200	139,500	141,700	142,400	149,600	146,600	138,900	129,300
26	144,000	136,900	131,300	135,200	136,200	139,400	141,400	142,700	149,300	146,700	138,400	128,700
27	143,500	136,500	131,200	135,000	136,200	139,300	141,500	143,000	149,100	146,800	138,000	128,200
28	143,200	136,100	131,600	135,000	136,100	139,300	141,400	143,200	149,000	146,700	137,600	127,900
29	143,000	135,800	131,600	135,000	---	139,400	141,200	143,400	148,800	146,300	137,200	127,600
30	142,900	135,500	131,600	135,200	---	140,200	141,100	144,000	148,500	146,100	136,700	127,100
31	142,800	---	132,000	134,700	---	140,500	---	144,400	---	146,000	136,200	---
Mean	144,300	139,500	132,400	134,500	134,900	138,000	142,300	140,700	147,800	146,400	141,500	131,600
Max	145,100	142,600	135,300	135,800	136,200	140,500	143,400	144,400	150,800	148,100	145,800	136,000
Min	142,800	135,500	130,300	131,800	133,500	135,900	140,500	138,500	144,700	144,600	136,200	127,100

	Calendar Year 2012	Water Year 2013
Mean	155,500	139,500
Max	186,500	150,800
Min	130,300	127,100

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