

08064550 Richland-Chambers Reservoir near Kerens, TX

Upper Trinity Basin
Chambers Subbasin

LOCATION.--Lat 32°02'25", long 96°12'23" referenced to North American Datum of 1927, Navarro County, TX, Hydrologic Unit 12030109, on upper floor of pump house, on left bank of Chambers Creek arm of Richland-Chambers Reservoir, 7.0 mi south of intersection of State Highway 31 and Farm Road 309 in Kerens, and 14.4 mi upstream from dam on Richland Creek.

DRAINAGE AREA.--1,957 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Nov. 1988 to current year. Water-quality records: Chemical data: Sept. 1996. Pesticide data: Sept. 1996. Radiochemical data: Sept. 1996.

GAGE.--Water-stage recorder. Datum of gage is 0.70 ft above NGVD of 1929 (levels by Tarrant Regional Water District). Satellite telemeter at station.

COOPERATION.--Capacity table No. 1-C was prepared by Freese and Nichols, consulting engineers for Tarrant Regional Water District. A new capacity table, No. 2-C, was prepared by the Texas Water Development Board and put into use Oct. 1, 1995.

REMARKS.--Records good. The reservoir is formed by a rolled earthfill dam 31,000 ft long. Deliberate impoundment of water began July 14, 1987, and the dam was completed in Dec. 1988. A gated concrete spillway is located near the left end of dam. The spillway is 1,155 ft long and contains twenty-four 40- by 29.4-ft radial gates. The low flow outlet works consist of two 3- by 5-ft outlets at elevation 266.0 ft, one 1.5- by 2.5-ft outlet, and one 1- by 1-ft outlet at elevation 285.0 ft. Each of the low flow outlets is controlled by sluice gates. The dam is owned by Tarrant Regional Water District, and was built for municipal and industrial water supply and for recreation. Flow from 464 mi² above the dam is controlled by Bardwell and Navarro Mills Lakes. Conservation pool storage is 1,136,600 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,267,000 acre-ft, Dec. 22, 1991, elevation 316.85 ft; minimum contents after initial filling, 707,800 acre-ft, Dec. 29, 2006, elevation, 303.59 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,171,000 acre-ft, Mar. 21 and Apr. 27, elevation, 315.82 ft; minimum contents, 1,026,000 acre-ft, Sept. 30, elevation, 312.28 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	1,125,000	1,099,000	1,078,000	1,073,000	1,068,000	1,084,000	1,143,000	1,159,000	1,134,000	1,101,000	1,067,000	1,051,000
2	1,125,000	1,098,000	1,078,000	1,071,000	1,067,000	1,084,000	1,141,000	1,155,000	1,134,000	1,100,000	1,066,000	1,049,000
3	1,123,000	1,097,000	1,077,000	1,071,000	1,067,000	1,087,000	1,142,000	1,148,000	1,133,000	1,099,000	1,065,000	1,049,000
4	1,122,000	1,097,000	1,076,000	1,071,000	1,068,000	1,088,000	1,142,000	1,144,000	1,132,000	1,098,000	1,063,000	1,046,000
5	1,121,000	1,096,000	1,075,000	1,072,000	1,068,000	1,088,000	1,145,000	1,140,000	1,131,000	1,097,000	1,061,000	1,045,000
6	1,121,000	1,093,000	1,074,000	1,072,000	1,068,000	1,088,000	1,145,000	1,140,000	1,129,000	1,095,000	1,061,000	1,044,000
7	1,120,000	1,093,000	1,074,000	1,072,000	1,067,000	1,097,000	1,142,000	1,140,000	1,128,000	1,094,000	1,060,000	1,042,000
8	1,119,000	1,092,000	1,073,000	1,072,000	1,066,000	1,104,000	1,141,000	1,137,000	1,127,000	1,093,000	1,058,000	1,041,000
9	1,118,000	1,091,000	1,073,000	1,072,000	1,065,000	1,107,000	1,139,000	1,137,000	1,126,000	1,091,000	1,057,000	1,041,000
10	1,117,000	1,090,000	1,072,000	1,072,000	1,065,000	1,113,000	1,142,000	1,137,000	1,125,000	1,090,000	1,056,000	1,040,000
11	1,116,000	1,090,000	1,073,000	1,071,000	1,065,000	1,121,000	1,142,000	1,135,000	1,124,000	1,089,000	1,056,000	1,039,000
12	1,114,000	1,089,000	1,075,000	1,071,000	1,066,000	1,127,000	1,141,000	1,134,000	1,123,000	1,088,000	1,060,000	1,039,000
13	1,113,000	1,089,000	1,076,000	1,071,000	1,067,000	1,130,000	1,139,000	1,134,000	1,121,000	1,086,000	1,059,000	1,041,000
14	1,112,000	1,088,000	1,076,000	1,071,000	1,067,000	1,131,000	1,138,000	1,148,000	1,120,000	1,087,000	1,058,000	1,044,000
15	1,115,000	1,086,000	1,079,000	1,071,000	1,066,000	1,132,000	1,137,000	1,159,000	1,119,000	1,089,000	1,057,000	1,042,000
16	1,116,000	1,085,000	1,078,000	1,070,000	1,071,000	1,132,000	1,137,000	1,159,000	1,118,000	1,088,000	1,055,000	1,041,000
17	1,116,000	1,084,000	1,078,000	1,070,000	1,084,000	1,133,000	1,137,000	1,157,000	1,117,000	1,087,000	1,054,000	1,039,000
18	1,115,000	1,084,000	1,078,000	1,069,000	1,086,000	1,135,000	1,140,000	1,154,000	1,117,000	1,086,000	1,054,000	1,038,000
19	1,114,000	1,083,000	1,078,000	1,069,000	1,088,000	1,146,000	1,140,000	1,151,000	1,116,000	1,084,000	1,058,000	1,038,000
20	1,113,000	1,083,000	1,078,000	1,069,000	1,088,000	1,159,000	1,139,000	1,148,000	1,115,000	1,083,000	1,060,000	1,037,000
21	1,112,000	1,082,000	1,077,000	1,068,000	1,088,000	1,168,000	1,138,000	1,145,000	1,113,000	1,082,000	1,062,000	1,035,000
22	1,112,000	1,079,000	1,078,000	1,068,000	1,088,000	1,163,000	1,137,000	1,143,000	1,112,000	1,081,000	1,062,000	1,035,000
23	1,110,000	1,078,000	1,076,000	1,068,000	1,087,000	1,158,000	1,137,000	1,141,000	1,111,000	1,080,000	1,060,000	1,034,000
24	1,108,000	1,079,000	1,075,000	1,067,000	1,087,000	1,156,000	1,145,000	1,138,000	1,110,000	1,078,000	1,059,000	1,033,000
25	1,106,000	1,082,000	1,075,000	1,068,000	1,087,000	1,155,000	1,154,000	1,137,000	1,109,000	1,077,000	1,058,000	1,032,000
26	1,105,000	1,081,000	1,076,000	1,069,000	1,086,000	1,153,000	1,163,000	1,137,000	1,107,000	1,076,000	1,057,000	1,031,000
27	1,104,000	1,080,000	1,075,000	1,069,000	1,085,000	1,151,000	1,168,000	1,138,000	1,106,000	1,075,000	1,056,000	1,030,000
28	1,103,000	1,080,000	1,075,000	1,069,000	1,085,000	1,148,000	1,165,000	1,141,000	1,105,000	1,073,000	1,056,000	1,029,000
29	1,102,000	1,079,000	1,074,000	1,070,000	1,084,000	1,146,000	1,162,000	1,139,000	1,104,000	1,071,000	1,055,000	1,028,000
30	1,101,000	1,079,000	1,074,000	1,068,000	---	1,147,000	1,161,000	1,136,000	1,103,000	1,070,000	1,054,000	1,027,000
31	1,100,000	---	1,074,000	1,069,000	---	1,146,000	---	1,135,000	---	1,069,000	1,052,000	---
Mean	1,113,000	1,087,000	1,076,000	1,070,000	1,076,000	1,128,000	1,145,000	1,143,000	1,119,000	1,086,000	1,059,000	1,039,000
Max	1,125,000	1,099,000	1,079,000	1,073,000	1,088,000	1,168,000	1,168,000	1,159,000	1,134,000	1,101,000	1,067,000	1,051,000
Min	1,100,000	1,078,000	1,072,000	1,067,000	1,065,000	1,084,000	1,137,000	1,134,000	1,103,000	1,069,000	1,052,000	1,027,000

	Calendar Year 2007	Water Year 2008
Mean	1,063,000	1,095,000
Max	1,178,000	1,168,000
Min	733,000	1,027,000

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