

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.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Sept. 1996.

BIOLOGICAL 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. Capacity Table No. 2-C, provided by the Texas Water Development Board, was put into use Oct. 1, 1995. Capacity Table No. 3-C, from a survey performed by the Texas Water Development Board, was put into use beginning Oct. 1, 2009.

REMARKS.--Records good except those for estimated daily mean contents, which are poor. Some records listed in the Period of Record for surface water and water quality may not be available electronically. 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 are controlled by sluice gates. The dam is owned by the 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 1,112,763 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, 1,186,000 acre-ft, Mar. 22, elevation, 316.64 ft; minimum contents, 770,000 acre-ft, Dec. 3, 4, elevation, 306.26 ft.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	826,200	793,600	772,900	809,800	933,800	1,002,000	1,129,000	1,108,000	1,096,000	1,081,000	1,045,000	1,006,000
2	824,500	792,400	772,000	808,700	934,700	1,003,000	1,127,000	1,107,000	1,096,000	1,079,000	1,044,000	1,005,000
3	822,800	789,900	771,400	808,100	936,400	1,003,000	1,125,000	1,107,000	1,095,000	1,077,000	1,042,000	1,003,000
4	821,500	788,900	773,400	806,800	937,400	1,003,000	1,123,000	1,106,000	1,094,000	1,076,000	1,040,000	1,002,000
5	820,200	788,000	780,400	806,300	937,100	1,003,000	1,120,000	1,106,000	1,093,000	1,075,000	1,039,000	1,001,000
6	818,700	786,900	784,100	805,700	937,400	1,004,000	1,117,000	1,106,000	1,092,000	1,073,000	1,037,000	999,500
7	817,200	786,300	785,000	805,000	937,400	1,004,000	1,116,000	1,105,000	1,096,000	1,071,000	1,035,000	998,300
8	815,800	786,200	784,800	803,600	937,200	1,005,000	1,114,000	1,105,000	1,097,000	1,070,000	1,034,000	995,400
9	814,700	784,800	783,900	806,000	937,200	1,009,000	1,115,000	1,105,000	e1,096,000	1,069,000	1,033,000	993,800
10	814,200	783,800	783,300	816,200	937,300	1,013,000	1,114,000	1,105,000	e1,095,000	1,069,000	1,033,000	992,600
11	813,200	783,300	782,500	822,700	935,800	1,024,000	1,113,000	1,106,000	e1,095,000	1,069,000	1,032,000	991,100
12	814,300	782,200	781,600	825,300	935,200	1,030,000	1,114,000	1,110,000	e1,094,000	1,069,000	1,030,000	989,500
13	814,600	781,500	781,000	826,800	935,700	1,034,000	1,116,000	1,110,000	1,094,000	1,068,000	1,028,000	988,800
14	813,200	780,700	780,900	826,600	935,800	1,040,000	1,116,000	1,110,000	1,097,000	1,067,000	1,026,000	987,900
15	812,000	780,300	783,200	826,200	935,700	1,043,000	1,115,000	1,109,000	1,097,000	1,066,000	1,025,000	986,500
16	811,100	780,600	791,400	826,600	935,100	1,044,000	1,113,000	1,109,000	1,096,000	1,065,000	1,024,000	985,700
17	810,300	779,200	796,600	824,800	935,300	1,046,000	1,112,000	1,108,000	1,096,000	1,063,000	1,022,000	985,700
18	808,500	778,500	799,200	823,900	941,100	1,046,000	1,112,000	1,107,000	1,095,000	1,062,000	1,020,000	984,700
19	806,200	777,500	802,300	823,600	954,700	1,048,000	1,112,000	1,106,000	1,093,000	1,061,000	1,019,000	983,600
20	804,800	776,800	806,100	823,300	971,700	1,095,000	1,112,000	1,105,000	1,092,000	1,060,000	1,017,000	982,800
21	803,600	776,000	807,700	821,900	982,800	1,154,000	1,112,000	1,104,000	1,092,000	1,059,000	1,016,000	981,600
22	803,100	780,000	809,600	822,000	988,800	1,181,000	1,111,000	1,103,000	1,091,000	1,058,000	1,015,000	980,600
23	804,000	779,800	809,100	820,400	992,500	1,171,000	1,111,000	1,103,000	1,090,000	1,057,000	1,014,000	979,600
24	803,600	779,000	808,900	820,000	993,100	1,151,000	1,111,000	1,102,000	1,089,000	1,055,000	1,013,000	979,000
25	802,700	778,300	810,700	833,200	995,700	1,141,000	1,112,000	1,100,000	1,088,000	1,054,000	1,012,000	978,300
26	801,800	778,700	812,100	859,500	997,100	1,137,000	1,111,000	1,099,000	1,086,000	1,053,000	1,011,000	976,700
27	799,400	777,200	812,500	892,500	997,900	1,134,000	1,111,000	1,098,000	1,085,000	1,052,000	1,011,000	975,700
28	797,900	776,100	812,400	914,100	1,000,000	1,131,000	1,110,000	1,097,000	1,084,000	1,050,000	1,011,000	974,800
29	797,700	774,900	812,100	925,100	1,001,000	1,131,000	1,108,000	1,095,000	1,083,000	1,049,000	1,009,000	975,900
30	796,200	773,900	811,600	930,100	---	1,131,000	1,108,000	1,094,000	1,082,000	1,048,000	1,007,000	983,700
31	795,000	---	811,000	932,600	---	1,130,000	---	1,096,000	---	1,047,000	1,006,000	---
Mean	810,000	781,800	794,000	835,400	956,200	1,067,000	1,115,000	1,104,000	1,092,000	1,064,000	1,024,000	988,300
Max	826,200	793,600	812,500	932,600	1,001,000	1,181,000	1,129,000	1,110,000	1,097,000	1,081,000	1,045,000	1,006,000
Min	795,000	773,900	771,400	803,600	933,800	1,002,000	1,108,000	1,094,000	1,082,000	1,047,000	1,006,000	974,800

	Calendar Year 2011	Water Year 2012
Mean	927,300	969,100
Max	1,039,000	1,181,000
Min	771,400	771,400

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