

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. 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, 985,100 acre-ft, Oct. 1, elevation, 311.93 ft; minimum contents, 728,400 acre-ft, Sept. 19, elevation, 305.01 ft.

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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	984,200	955,500	929,200	909,200	948,500	926,900	908,900	887,500	871,300	829,700	794,100	753,000
2	983,300	955,100	928,800	908,700	948,000	925,500	908,000	885,700	869,800	827,700	793,000	751,600
3	982,600	954,100	928,400	907,900	947,200	925,300	907,100	883,300	868,500	826,300	791,900	750,500
4	981,500	953,200	927,500	907,400	946,400	925,000	907,400	882,300	867,400	825,000	790,700	749,200
5	980,700	952,500	926,500	906,900	945,800	921,900	907,300	880,300	866,300	823,400	789,100	748,200
6	978,800	951,500	926,100	905,600	945,400	921,300	907,000	879,600	865,000	821,900	787,800	746,900
7	976,900	950,400	925,500	904,800	945,300	920,400	905,900	878,500	863,300	820,500	786,200	745,800
8	975,800	949,300	924,900	904,300	944,000	919,700	905,500	877,900	862,400	819,200	784,700	744,400
9	974,200	948,800	924,700	913,900	943,100	919,400	904,600	878,300	861,500	817,700	783,300	742,900
10	972,900	948,000	922,500	930,700	943,800	922,100	904,100	880,800	860,500	816,100	781,700	741,300
11	972,500	947,400	921,500	947,300	942,700	921,500	903,700	879,500	859,600	814,500	780,300	739,800
12	973,000	945,700	920,600	954,100	943,000	920,900	903,500	878,400	858,300	812,900	779,100	738,800
13	973,100	944,500	919,600	955,500	942,500	920,800	902,600	877,700	857,100	811,000	777,700	737,400
14	973,000	943,200	918,600	955,600	942,000	920,400	902,000	877,000	856,000	809,100	776,500	735,600
15	972,500	942,100	919,800	955,800	940,600	920,100	901,900	876,000	855,000	810,400	775,400	734,400
16	971,700	941,000	919,800	956,100	940,000	919,600	901,100	878,500	855,100	809,600	773,600	733,100
17	971,000	940,300	919,500	956,000	939,700	918,500	900,000	878,200	853,700	809,500	771,700	731,900
18	969,100	939,500	918,700	955,800	938,900	917,500	900,900	878,600	852,500	809,000	770,500	730,600
19	968,100	938,600	919,400	955,700	936,800	916,200	900,600	878,700	851,000	809,300	769,000	729,600
20	967,000	937,700	918,400	955,300	935,200	916,100	899,700	877,800	850,100	809,700	767,800	734,700
21	966,600	937,200	916,800	954,600	935,800	915,800	898,100	877,600	848,500	808,800	766,500	738,300
22	965,700	936,800	916,000	953,900	934,800	914,700	897,500	877,200	846,700	807,500	765,300	737,900
23	965,100	935,100	915,100	953,700	933,900	914,000	895,900	876,500	845,000	806,200	764,300	737,000
24	964,700	934,300	913,700	953,300	932,900	913,100	893,300	876,100	843,400	804,500	763,200	736,200
25	963,500	933,800	914,600	952,600	934,600	911,200	892,800	877,200	841,400	802,900	761,800	735,300
26	961,400	932,600	913,500	951,800	931,300	910,400	891,800	877,100	839,500	802,300	760,300	734,000
27	960,400	931,400	912,600	951,600	929,400	909,500	891,300	876,600	837,800	801,000	759,000	732,900
28	958,900	930,600	911,600	951,600	928,100	908,100	890,300	875,700	836,200	800,100	757,900	732,500
29	958,200	930,000	911,000	952,400	---	907,800	889,700	874,500	834,000	799,000	756,700	734,700
30	957,300	929,300	910,400	951,700	---	908,500	888,800	873,500	831,900	797,300	755,500	734,300
31	956,200	---	909,600	950,300	---	909,000	---	872,500	---	795,700	754,400	---
Mean	970,300	942,300	919,500	939,500	940,000	917,500	900,400	878,400	853,600	811,500	773,800	739,100
Max	984,200	955,500	929,200	956,100	948,500	926,900	908,900	887,500	871,300	829,700	794,100	753,000
Min	956,200	929,300	909,600	904,300	928,100	907,800	888,800	872,500	831,900	795,700	754,400	729,600

	Calendar Year 2012	Water Year 2013
Mean	1,007,000	881,900
Max	1,181,000	984,200
Min	803,600	729,600

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