



Water-Data Report 2008

08073000 Addicks Reservoir near Addicks, TX

San Jacinto Basin
Buffalo-San Jacinto Subbasin

LOCATION.--Lat 29°47'28", long 95°37'24" referenced to North American Datum of 1927, Harris County, TX, Hydrologic Unit 12040104, on left bank at dam on South Mayde Creek, 65 ft upstream from reservoir outlet works, 2,700 ft upstream from U.S. Highway 90 and Interstate Highway 10, 1.2 mi east of Addicks, and 1.4 mi upstream from mouth.

DRAINAGE AREA.--136 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1948 to current year.

PERIOD OF RECORD, Water-Quality.--

Chemical data: June 1978 to Sept. 1981.

Biochemical data: June 1978 to Sept. 1981.

REVISED RECORDS.--WDR TX-77-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929, 1973 adjustment; unadjusted for land-surface subsidence (since 1973). Prior to Oct. 1, 1980, datum of gage was unadjusted for land-surface subsidence that occurred prior to that date. Satellite telemeter at station.

COOPERATION.--The capacity table, furnished by the U.S. Army Corps of Engineers, was based on extensive releveling survey in 1974, using NGVD of 1929, 1973 adjustment.

REMARKS.--Records good except those for estimated daily contents, which are fair. 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 61,166 ft long. The dam was completed in Dec. 1948. The reservoir is operated for flood protection for the city of Houston. The outlet works consist of five concrete conduits 8 x 6 ft wide, each controlled by a vertical slide gate. Runoff in excess of maximum design capacity will be discharged around both ends of dam. Data regarding the dam are given in the following table:

	Elevation (feet)
Top of dam.....	122.7
Design flood.....	112.7
Ground elevation at ends of dam.....	112.0
Crest of spillway (invert).....	71.1

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 57,950 acre-ft, Mar. 9, 1992, elevation, 100.58 ft; minimum, reservoir dry at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Dec. 1935 reached a stage of 89.9 ft, former datum, at bridge on U.S. Highway 90, 2,700 ft downstream from gage, from information by the U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 28,720 acre-ft, Sept. 15, elevation, 96.94 ft; minimum contents, 0.42 acre-ft, Oct. 13, elevation, 71.77 ft.

08073000 Addicks Reservoir near Addicks, TX—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.56	0.48	7,150	0.58	2.1	0.54	0.51	0.82	0.64	1.2	0.51	0.54
2	0.50	0.49	5,770	0.55	1.1	0.57	0.58	0.87	0.61	1.3	0.53	0.54
3	0.48	0.50	4,530	0.56	0.85	12	0.54	0.90	0.62	1.9	0.53	0.50
4	0.47	0.50	3,050	0.56	0.83	118	0.51	0.86	0.62	1.4	0.56	0.50
5	0.46	0.53	1,480	0.57	0.82	209	0.98	9.2	0.62	1.5	136	0.49
6	0.47	0.50	266	0.61	0.88	291	0.75	112	0.65	1.3	1,340	0.47
7	0.76	0.47	0.77	0.62	0.74	1,150	0.84	47	1.0	0.95	1,910	0.49
8	0.91	0.49	0.70	0.68	0.70	1,950	0.70	0.94	0.75	0.86	625	0.51
9	0.60	0.48	0.67	0.70	0.67	1,880	0.54	0.67	0.69	1.3	161	0.49
10	0.53	0.48	0.72	0.59	0.68	1,140	0.53	0.58	0.72	1.6	1.0	0.49
11	0.48	0.51	0.81	0.58	0.79	1,330	0.58	0.83	0.92	1.7	0.89	0.49
12	0.46	0.53	1.3	0.55	10	282	0.52	0.66	0.99	1.4	0.80	8.1
13	0.45	0.53	5.8	0.59	14	1.4	0.50	0.60	0.95	1.1	0.90	1,010
14	0.46	0.49	2.1	0.60	1.1	1.1	0.52	0.63	1.2	0.85	0.85	16,830
15	37	0.46	81	0.58	0.67	0.90	0.50	0.94	1.1	0.51	e1.4	28,220
16	4,530	0.45	301	190	3.7	0.83	0.49	1.0	1.00	0.51	e4.0	28,080
17	5,600	0.46	142	477	557	1.00	0.50	0.71	0.99	0.60	e20	26,560
18	4,360	2,580	1.1	60	1,840	0.98	24	0.66	0.93	0.53	e100	24,810
19	2,480	7,950	0.95	1,310	2,200	6.9	31	0.65	1.8	0.51	e346	24,150
20	562	7,670	1.1	3,910	2,090	1.1	1.3	0.58	29	0.87	1,270	24,120
21	0.96	6,850	1.1	3,410	3,030	0.63	1.1	0.56	1.6	0.58	2,050	24,050
22	0.73	7,050	0.81	3,180	4,090	0.55	1.0	0.56	1.3	0.53	2,570	23,860
23	0.78	6,570	0.72	2,290	3,320	0.53	1.0	0.56	1.1	0.83	2,540	23,640
24	0.62	7,760	0.65	2,440	1,970	0.52	1.1	0.57	1.3	63	1,170	23,570
25	0.59	12,050	0.64	3,260	851	0.49	1.1	0.59	2.2	468	131	23,190
26	0.51	13,250	0.69	3,690	542	0.51	2.4	0.53	5.1	49	0.68	23,160
27	0.49	12,570	0.91	2,660	311	0.52	1.6	0.52	36	0.87	0.55	23,120
28	0.49	11,540	0.77	1,030	109	0.50	1.0	0.56	2.8	0.59	0.53	23,060
29	0.52	10,300	0.72	344	1.3	0.51	0.87	4.7	1.4	0.58	0.52	23,010
30	0.50	8,710	0.64	48	---	0.52	0.81	1.3	1.3	0.52	0.51	22,920
31	0.49	---	0.60	1.2	---	0.58	---	0.80	---	0.50	0.52	---
Mean	567	3,830	735	913	722	270	2.6	6.2	3.3	20	464	13,580
Max	5,600	13,250	7,150	3,910	4,090	1,950	31	112	36	468	2,570	28,220
Min	0.45	0.45	0.60	0.55	0.67	0.49	0.49	0.52	0.61	0.50	0.51	0.47

	Calendar Year 2007	Water Year 2008
Mean	5,000	1,740
Max	37,820	28,220
Min	0.45	0.45