



Water-Data Report 2009

**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 mi<sup>2</sup>.

**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 1988, 2001 adjustment. Prior to Oct. 1, 2008, datum of gage was NGVD of 1929, 1973 adjustment; unadjusted for land-surface subsidence since 1973 (3.12 ft above current datum). 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. Values converted to NAVD 1988, 2001 adjustment.

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 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.....	119.6
Design flood.....	109.6
Ground elevation at ends of dam.....	108.9
Crest of spillway (invert).....	68.0

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 60,190 acre-ft, Apr. 30 and May 1, 2009, elevation, 96.89 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, 60,190 acre-ft, Apr. 30 and May 1, elevation, 96.89 ft; minimum contents, 43 acre-ft, June 18, elevation, 68.53 ft.

## 08073000 Addicks Reservoir near Addicks, TX—Continued

**RESERVOIR STORAGE, ACRE FEET**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	25,200	47	46	46	45	185	46	59,790	47	45	458	45
2	22,370	47	46	46	46	224	46	58,640	46	45	766	45
3	19,560	47	46	46	46	286	48	57,520	45	45	299	45
4	16,690	47	46	46	45	356	46	56,000	45	45	70	78
5	14,010	46	47	46	45	450	46	54,070	45	45	47	57
6	11,330	46	46	47	45	367	46	53,860	45	45	47	47
7	8,910	47	46	51	45	70	46	53,490	45	46	46	49
8	6,850	47	46	47	46	46	46	52,210	45	47	46	64
9	5,110	46	46	46	46	46	46	50,060	45	45	47	84
10	3,360	48	47	46	46	45	46	46,360	45	45	63	188
11	1,590	177	49	46	52	45	46	43,030	45	45	50	386
12	241	4,760	47	46	51	46	56	40,300	44	45	48	522
13	50	11,930	47	46	47	115	124	36,400	44	44	47	600
14	85	12,670	47	46	47	172	88	32,590	45	44	46	478
15	966	10,820	47	46	53	162	49	29,780	44	44	46	93
16	3,730	8,980	47	45	50	135	46	27,830	44	44	45	47
17	5,480	6,910	46	46	47	63	64	28,180	44	44	46	46
18	4,380	4,530	46	46	46	48	1,480	26,980	44	45	46	46
19	2,810	2,300	46	46	46	47	12,280	24,160	45	124	46	45
20	1,190	294	47	46	46	46	14,450	21,140	45	381	47	46
21	165	49	47	45	45	46	13,170	18,050	45	178	46	46
22	50	47	47	45	47	46	11,050	15,540	45	55	47	198
23	1,900	47	46	45	46	46	8,700	14,300	45	86	49	1,540
24	3,880	47	47	46	67	46	6,200	14,270	45	146	48	2,450
25	2,150	46	48	46	103	46	5,570	14,350	45	220	46	2,280
26	344	46	47	46	123	52	6,100	14,230	44	105	45	777
27	53	46	47	46	140	107	5,880	13,410	45	49	45	62
28	49	46	47	46	159	261	35,270	11,420	45	47	45	47
29	48	48	46	46	---	556	55,780	7,460	45	46	45	48
30	48	47	46	45	---	495	59,750	3,350	45	45	45	47
31	47	---	46	45	---	95	---	308	---	58	45	---
<b>Mean</b>	5,250	2,140	47	46	60	153	7,890	31,580	45	76	92	350
<b>Max</b>	25,200	12,670	49	51	159	556	59,750	59,790	47	381	766	2,450
<b>Min</b>	47	46	46	45	45	45	46	308	44	44	45	45

	Calendar Year 2008	Water Year 2009
<b>Mean</b>	1,940	4,020
<b>Max</b>	28,220	59,790
<b>Min</b>	0.47	44

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