



Water-Data Report 2011

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 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 except those for estimated daily mean reservoir storage, 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 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, 1,120 acre-ft, Jan. 10, elevation, 81.43 ft; minimum contents, 42 acre-ft, May 16, elevation, 68.43 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	45	46	47	81	51	46	47	46	48	45	45	e45
2	45	51	46	47	52	46	46	46	48	46	45	e45
3	45	58	45	46	48	61	47	46	48	46	45	e45
4	45	54	45	48	47	92	47	46	48	46	e45	e45
5	45	47	45	319	47	103	47	46	48	46	e45	e45
6	45	46	45	665	47	115	46	45	50	46	e45	e45
7	45	45	45	79	47	127	46	45	49	48	e45	e45
8	45	45	45	58	46	137	46	46	49	46	e45	e45
9	45	45	46	193	46	145	46	46	48	45	e45	e45
10	45	45	46	890	51	152	47	46	48	45	e45	e45
11	45	45	45	257	48	142	47	46	48	45	e45	e45
12	45	45	46	50	46	69	58	46	48	45	e45	e45
13	45	46	46	47	46	52	72	58	49	66	e45	e45
14	45	47	46	46	46	70	70	49	48	96	e45	e45
15	45	55	46	46	46	160	73	46	48	111	e45	e45
16	45	50	46	49	46	98	72	45	48	126	e45	e45
17	45	46	47	101	46	50	66	44	48	139	e45	e45
18	45	46	46	105	46	47	57	44	48	117	e45	e50
19	45	46	46	53	46	47	45	53	48	47	e45	85
20	45	45	46	47	46	46	45	48	48	46	e45	110
21	45	45	46	46	46	47	45	48	48	47	e45	e52
22	45	46	46	46	46	47	45	49	78	48	e45	e45
23	45	46	46	46	46	47	45	49	450	49	e45	e45
24	45	46	46	111	46	47	46	49	197	46	e45	e45
25	45	46	99	829	46	46	46	48	56	46	e47	e45
26	45	47	71	351	46	47	46	49	47	78	e53	e45
27	45	49	47	58	46	47	46	48	46	77	e46	e45
28	45	46	46	48	46	47	46	48	46	49	e45	e45
29	45	46	72	46	---	47	45	48	45	46	e45	e45
30	45	50	501	46	---	48	46	48	46	47	e45	100
31	45	---	304	47	---	48	---	48	---	46	e45	---
Mean	45	47	72	158	47	75	51	47	67	61	45	51
Max	45	58	501	890	52	160	73	58	450	139	53	110
Min	45	45	45	46	46	46	45	44	45	45	45	45

	Calendar Year 2010	Water Year 2011
Mean	914	64
Max	16,230	890
Min	42	44

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