Water-Data Report 2011

08067600 Lake Conroe near Conroe, TX

San Jacinto Basin
West Fork San Jacinto Subbasin

LOCATION.--Lat 30°21′30″, long 95°33′39″ referenced to North American Datum of 1927, Montgomery County, TX, Hydrologic Unit 12040101, at service outlet tower at Conroe Dam on West Fork San Jacinto River, 140 ft upstream from centerline of dam, and 7.4 mi west of Conroe.

DRAINAGE AREA.--445 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Satellite telemeter at station.

COOPERATION.--The capacity table, furnished by the Texas Water Development Board dated July 19, 1996, is based on a survey of Apr. 1996.

REMARKS.--Records good. The lake is formed by an earthfill dam 11,300 ft long, including a controlled spillway. The dam was completed Sept. 1, 1972, and deliberate impoundment began Jan. 9, 1973. Water is used for municipal and industrial purposes in the Houston metropolitan area. A small diversion is also made for cooling purposes at the Gulf State Utilities generating plant on Lewis Creek Reservoir near Conroe. A spillway with five 40- x 30-foot tainter gates is located near the center of dam. Low-flow releases are made through a separate multi-gated inlet tower. The tower has three gated openings and one uncontrolled opening. It is connected to a stilling basin and a concrete weir by a 14 ft diameter conduit through the dam. Data regarding the dam are given in the following table:

<blank>	Elevation (feet)
Top of dam	212.0
Design flood	205.5
Top of tainter gates	202.5
Uncontrolled tower outlet	201.0
Crest of spillway (sill of tainter gates)	173.0
Lowest gated outlet (invert)	144.5

Some records listed in the "Period of Record" for surface water and water quality may not be available electronically. Beginning in the 2006 Water Year, water-quality data published with this site are now published as:

Site ID	Site name
302127095335501	Lk Conroe Site AC nr Conroe, TX
302132095333701	Lk Conroe Site AL nr Conroe, TX
302245095365301	Lk Conroe Site BC nr Conroe, TX
302320095334001	Lk Conroe Site CL nr Conroe, TX
302323095341201	Lk Conroe Site CC nr Conroe, TX
302448095374101	Lk Conroe Site DC nr Conroe, TX
302607095360901	Lk Conroe Site EC nr Conroe, TX
302714095372201	Lk Conroe Site FC nr Conroe, TX
303129095360501	Lk Conroe Site GC nr Conroe, TX

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 534,900 acre-ft, Oct. 17, 1994, elevation, 205.61 ft; minimum contents since normal operating level was reached, 307,700 acre-ft, Sept. 30, 2011, elevation, 194.91 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 394,900 acre-ft, Oct. 1, elevation, 199.90 ft; minimum contents, 307,700 acre-ft, Sept. 30, elevation, 194.91 ft.

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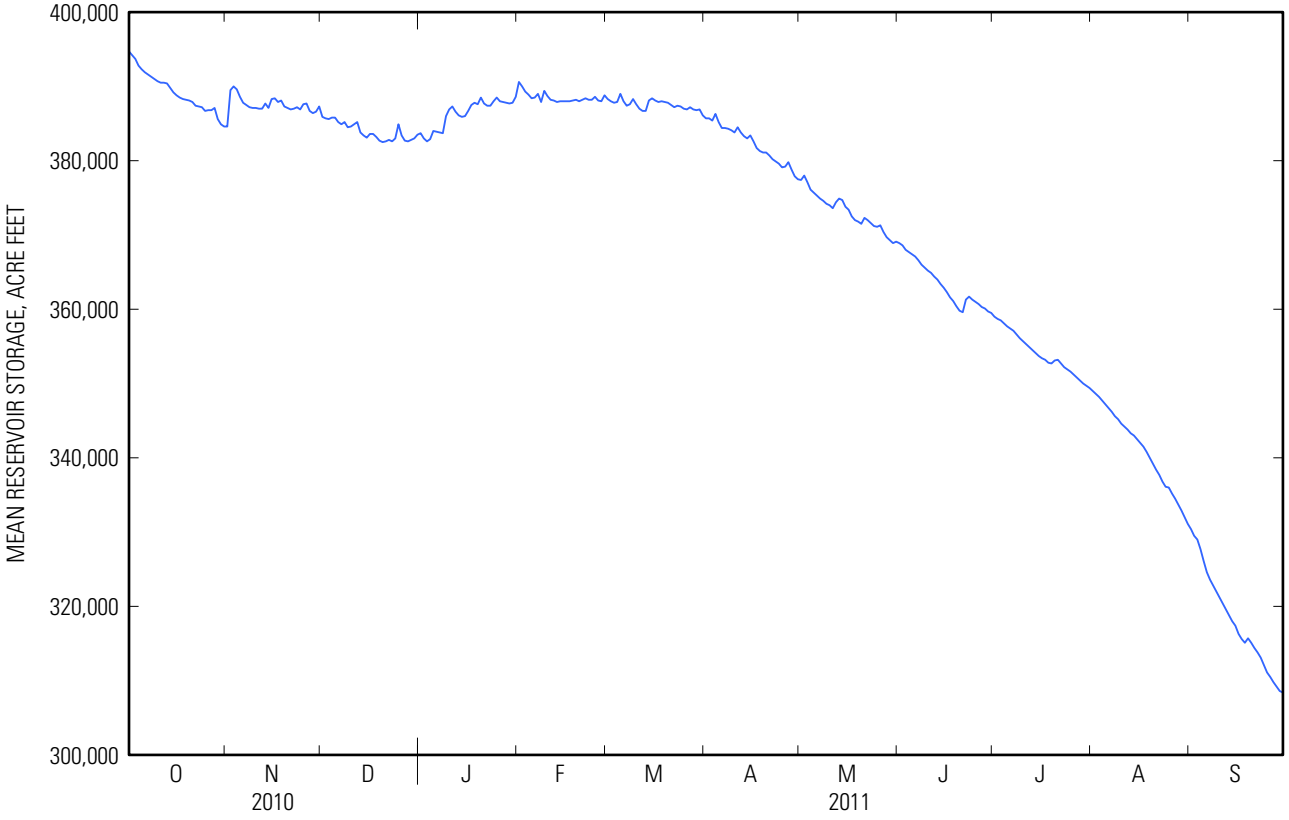
RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	394,700	384,600	385,900	383,700	390,600	388,300	385,700	377,400	368,900	359,000	349,000	330,400
2	394,200	389,500	385,700	383,000	390,000	388,000	385,700	378,000	368,600	358,700	348,600	329,500
3	393,700	390,000	385,600	382,600	389,300	387,800	385,400	377,100	368,000	358,500	348,200	329,000
4	392,800	389,600	385,800	382,900	388,900	387,900	386,300	376,100	367,700	358,100	347,700	327,700
5	392,300	388,600	385,800	384,000	388,400	389,000	385,200	375,700	367,400	357,700	347,200	326,100
6	391,900	387,800	385,200	383,900	388,500	388,000	384,400	375,300	367,100	357,400	346,700	324,600
7	391,600	387,500	384,900	383,800	389,000	387,400	384,400	374,900	366,600	357,100	346,200	323,600
8	391,300	387,200	385,200	383,700	387,900	387,600	384,300	374,600	366,000	356,600	345,600	322,800
9	391,000	387,100	384,500	386,000	389,400	388,300	384,100	374,200	365,600	356,100	345,200	322,000
10	390,700	387,100	384,600	386,900	388,700	387,600	383,800	374,000	365,200	355,700	344,600	321,200
11	390,500	387,000	384,900	387,300	388,200	387,000	384,500	373,600	364,900	355,300	344,200	320,400
12	390,500	387,000	385,200	386,600	388,100	386,700	383,800	374,400	364,400	354,900	343,800	319,600
13	390,400	387,700	383,800	386,100	387,900	386,700	383,300	374,900	364,000	354,500	343,300	318,800
14	389,800	387,100	383,400	385,900	388,000	388,100	383,000	374,700	363,400	354,100	343,000	318,000
15	389,200	388,300	383,100	386,000	388,000	388,400	383,400	373,800	362,900	353,700	342,500	317,400
16	388,800	388,400	383,600	386,700	388,000	388,100	382,600	373,400	362,300	353,400	342,000	316,300
17	388,500	387,900	383,600	387,500	388,000	387,900	381,700	372,500	361,600	353,200	341,500	315,600
18	388,300	388,100	383,200	387,800	388,100	388,000	381,300	372,000	361,100	352,800	340,800	315,100
19	388,200	387,300	382,700	387,600	388,200	387,900	381,100	371,800	360,400	352,700	340,000	315,700
20	388,100	387,100	382,500	388,500	388,000	387,800	381,100	371,500	359,800	353,100	339,200	315,100
21	387,900	386,900	382,600	387,700	388,200	387,500	380,700	372,300	359,600	353,200	338,400	314,400
22	387,400	387,000	382,800	387,400	388,400	387,200	380,200	372,000	361,300	352,700	337,700	313,800
23	387,300	387,200	382,600	387,400	388,200	387,400	379,900	371,600	361,700	352,200	336,800	313,100
24	387,200	386,900	383,000	388,000	388,200	387,300	379,600	371,200	361,300	351,900	336,100	312,100
25	386,700	387,600	384,900	388,500	388,600	387,000	379,100	371,100	361,000	351,600	336,000	311,100
26	386,800	387,700	383,400	388,000	388,100	386,900	379,200	371,300	360,700	351,200	335,200	310,500
27	386,800	386,700	382,700	387,900	388,000	387,200	379,800	370,400	360,300	350,800	334,500	309,800
28	387,100	386,400	382,600	387,800	388,800	386,900	378,800	369,700	360,100	350,400	333,700	309,200
29	385,600	386,600	382,800	387,700	---	386,800	377,900	369,300	359,700	350,000	332,900	308,600
30	384,900	387,300	383,000	387,800	---	386,900	377,500	368,900	359,500	349,700	332,000	308,400
31	384,600	---	383,500	388,600	---	386,100	---	369,100	---	349,400	331,100	---
Mean	389,300	387,500	384,000	386,400	388,500	387,500	382,300	373,100	363,400	354,100	341,100	318,000
Max	394,700	390,000	385,900	388,600	390,600	389,000	386,300	378,000	368,900	359,000	349,000	330,400
Min	384,600	384,600	382,500	382,600	387,900	386,100	377,500	368,900	359,500	349,400	331,100	308,400

	Calendar Year 2010	Water Year 2011
Mean	405,400	371,200
Max	429,600	394,700
Min	382,500	308,400

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