Water-Data Report 2010

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:

	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

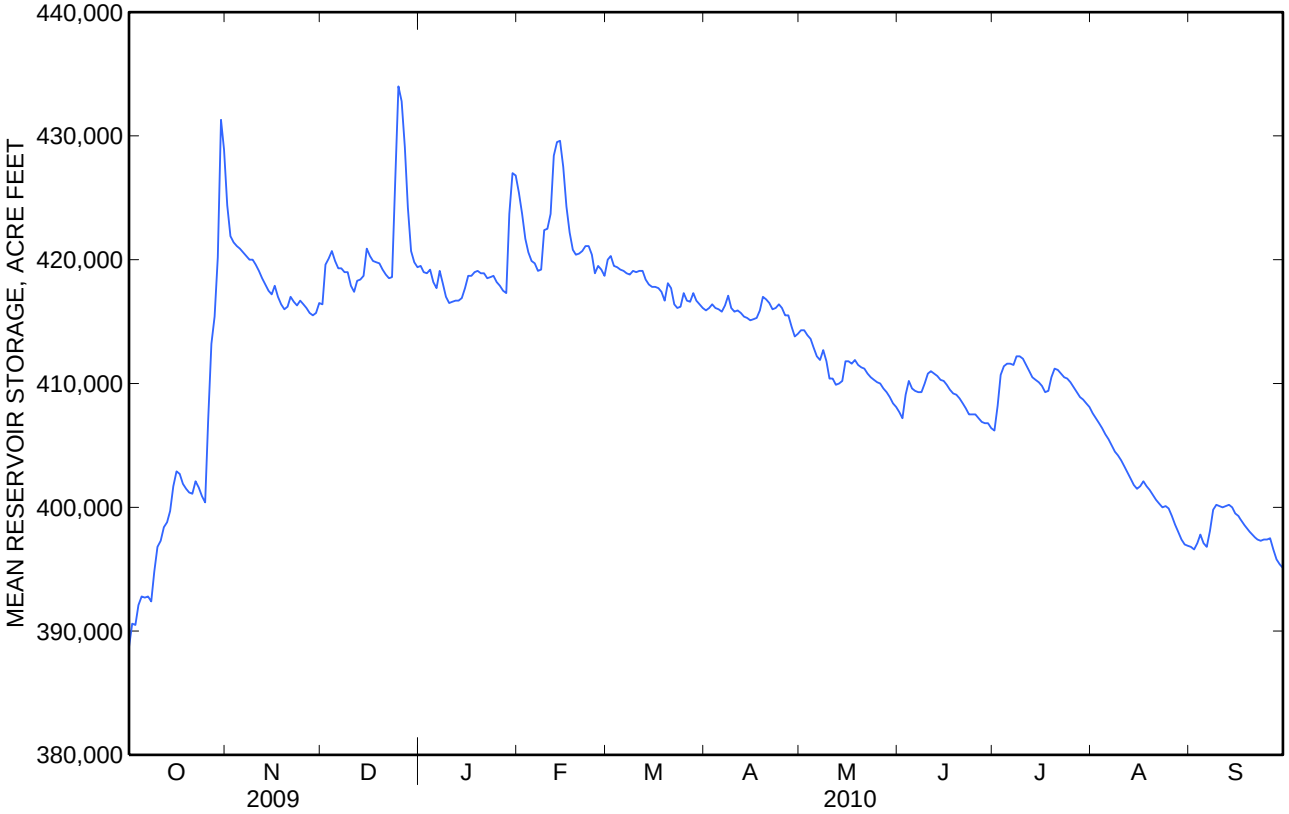
EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 534,900 acre-ft, Oct. 17, 1994, elevation, 205.61 ft; minimum contents since normal operating level was reached, 335,300 acre-ft, Oct. 10, 2006, elevation, 196.58 ft; minimum elevation since normal operating level was reached, 196.17 ft, Jan. 11, 1989, 336,900 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 434,400 acre-ft, Dec. 25, elevation, 201.90 ft; minimum contents, 388,600 acre-ft, Oct. 1, elevation, 199.56 ft.

08067600 Lake Conroe near Conroe, TX—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	388,700	424,400	416,400	419,500	425,400	420,000	415,900	414,300	407,700	406,200	407,600	396,800
2	390,600	421,900	419,600	419,000	423,700	420,300	416,100	414,300	407,200	408,200	407,200	396,600
3	390,500	421,400	420,100	418,900	421,700	419,500	416,400	413,900	409,100	410,700	406,800	397,100
4	392,100	421,100	420,700	419,200	420,600	419,400	416,100	413,600	410,200	411,400	406,400	397,800
5	392,800	420,900	419,900	418,200	419,900	419,200	416,000	412,900	409,600	411,600	405,900	397,100
6	392,700	420,600	419,300	417,700	419,700	419,100	415,800	412,200	409,400	411,600	405,500	396,800
7	392,800	420,300	419,300	419,100	419,100	418,900	416,300	411,900	409,300	411,500	405,000	398,100
8	392,400	420,000	419,000	418,100	419,200	418,800	417,100	412,700	409,300	412,200	404,500	399,800
9	394,800	420,000	419,000	417,000	422,400	419,100	416,100	411,800	410,000	412,200	404,200	400,200
10	396,800	419,600	417,900	416,500	422,500	419,000	415,800	410,400	410,800	412,000	403,800	400,100
11	397,300	419,100	417,400	416,600	423,700	419,100	415,900	410,400	411,000	411,500	403,300	400,000
12	398,400	418,500	418,300	416,700	428,400	419,100	415,700	409,900	410,800	411,000	402,800	400,100
13	398,800	418,000	418,400	416,700	429,500	418,400	415,400	410,000	410,600	410,500	402,300	400,200
14	399,700	417,500	418,700	416,900	429,600	418,000	415,300	410,200	410,300	410,300	401,800	400,000
15	401,700	417,200	420,900	417,700	427,500	417,800	415,100	411,800	410,200	410,100	401,500	399,500
16	402,900	417,900	420,300	418,700	424,300	417,800	415,200	411,800	409,900	409,800	401,700	399,300
17	402,700	417,000	419,900	418,700	422,200	417,700	415,300	411,600	409,500	409,300	402,100	398,900
18	401,900	416,400	419,800	419,000	420,800	417,400	415,900	411,900	409,200	409,400	401,700	398,500
19	401,500	416,000	419,700	419,100	420,400	416,700	417,000	411,500	409,100	410,500	401,400	398,200
20	401,200	416,200	419,200	418,900	420,500	418,100	416,800	411,300	408,800	411,200	401,000	397,900
21	401,100	417,000	418,800	418,900	420,700	417,700	416,500	411,200	408,400	411,100	400,600	397,600
22	402,100	416,600	418,500	418,500	421,100	416,400	416,000	410,800	408,000	410,800	400,300	397,400
23	401,600	416,300	418,600	418,600	421,100	416,100	416,100	410,500	407,500	410,500	400,000	397,300
24	400,900	416,700	426,400	418,700	420,400	416,200	416,400	410,300	407,500	410,400	400,100	397,400
25	400,400	416,400	434,000	418,200	418,900	417,300	416,100	410,100	407,500	410,100	399,900	397,400
26	407,100	416,100	432,800	417,900	419,500	416,700	415,500	410,000	407,200	409,700	399,300	397,500
27	413,200	415,700	429,100	417,500	419,200	416,600	415,500	409,600	406,900	409,300	398,600	396,600
28	415,400	415,500	424,200	417,300	418,700	417,300	414,600	409,300	406,800	408,900	398,000	395,800
29	420,200	415,700	420,700	423,700	---	416,700	413,800	408,900	406,800	408,700	397,400	395,400
30	431,300	416,500	419,800	427,000	---	416,400	414,000	408,400	406,400	408,400	397,000	395,100
31	428,900	---	419,400	426,800	---	416,100	---	408,100	---	408,100	396,900	---
Mean	401,700	418,200	420,800	418,900	422,200	418,000	415,800	411,100	408,800	410,200	402,100	398,000
Max	431,300	424,400	434,000	427,000	429,600	420,300	417,100	414,300	411,000	412,200	407,600	400,200
Min	388,700	415,500	416,400	416,500	418,700	416,100	413,800	408,100	406,400	406,200	396,900	395,100

	Calendar Year 2009	Water Year 2010
Mean	402,900	412,100
Max	434,000	434,000
Min	386,200	388,700

08067600 Lake Conroe near Conroe, TX—Continued