Water-Data Report 2012

# 08068000 West Fork San Jacinto River near Conroe, TX

San Jacinto Basin
West Fork San Jacinto Subbasin

LOCATION.--Lat 30°14′40″, long 95°27′25″ referenced to North American Datum of 1927, Montgomery County, TX, Hydrologic Unit 12040101, near center of bridge on downstream side of Interstate Highway 45 northbound feeder road, 300 ft upstream from Missouri Pacific Railroad Co. bridge, 3.5 mi downstream from Lake Creek, 4.2 mi south of Conroe, and at mile 79.

DRAINAGE AREA.--828 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1924 to Sept. 1927, July 1939 to current year.

PERIOD OF RECORD, Water-Quality.--
CHEMICAL DATA: Mar. 1959 to Sept. 1994, Aug. 2011.
BIOCHEMICAL DATA: Mar. 1959 to Sept. 1994, Aug. 2011.
PESTICIDE DATA: May 1975 to June 1982.
SEDIMENT DATA: Feb. 1966 to Sept. 1967, Oct. 1974 to Sept. 1994, Sept. 2008 to Aug. 2011

PERIOD OF DAILY RECORD, Water-Quality.--
SPECIFIC CONDUCTANCE: Oct. 1961 to Sept. 1990.
WATER TEMPERATURE: Oct. 1961 to Sept. 1990.
DISSOLVED OXYGEN: Aug. 1979 to May 1981.

REVISED RECORDS.--WSP 1058: 1926. WSP 1732: Drainage area. WDR TX-79-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 95.03 ft above NGVD of 1929. May 7, 1924, to Sept. 30, 1927, nonrecording gage at railroad bridge 300 ft downstream at datum 30.10 ft higher. July 13, 1939, to Sept. 30, 1963, water-stage recorder at datum 5.0 ft higher. Satellite telemeter at station.

REMARKS.--Records fair. Since water year 1973, at least 10% of contributing drainage area has been regulated. There are no large diversions above station. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

AVERAGE DISCHARGE FOR PERIOD PRIOR TO REGULATION.--36 years (water years 1925-27, 1940-72), prior to regulation by Lake Conroe, (station 08067600) 477 $ft^3/s$ (345,600 acre-ft/yr).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Dec. 1913 reached a stage of 30.2 ft, present site and datum, from information by Missouri Pacific Railroad Co., discharge 101,000 $ft^3/s$, from rating curve as explained below.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--WATER YEARS, 1925-1927, 1940-1972: Maximum discharge, 110,000 $ft^3/s$ Nov. 25, 1940 (gage height, 30.85 ft), present datum, from rating curve extended above 43,000 $ft^3/s$ on basis of velocity-area studies; no flow June 14, 1956, and Sept. 19 to Oct. 1, 1965, result of temporary dams. Maximum stage since at least Dec. 1913, that of Nov. 25, 1940.

**08068000 West Fork San Jacinto River near Conroe, TX—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**
**DAILY MEAN VALUES**

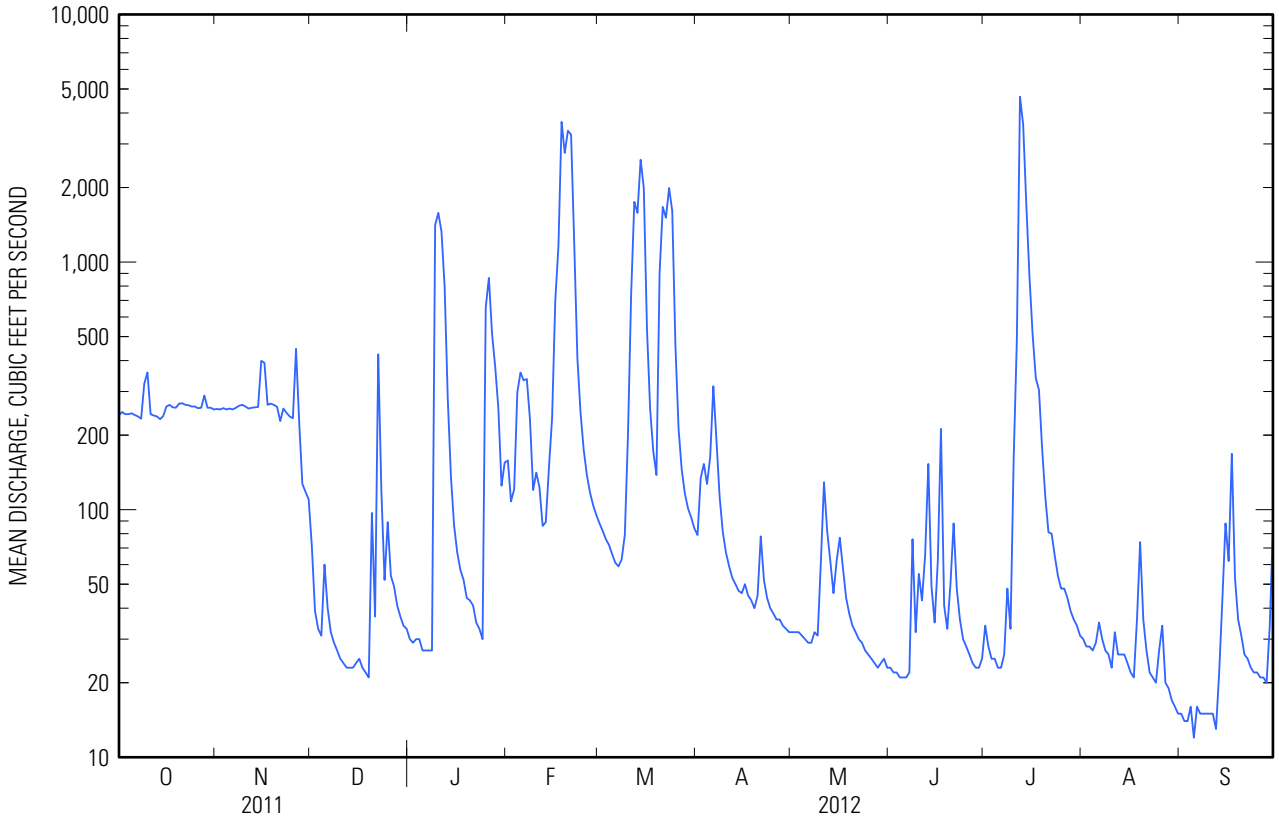
| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 241 | 255 | 71 | 30 | 158 | 88 | 79 | 32 | 23 | 34 | 30 | 15 |
| 2 | 248 | 254 | 39 | 29 | 108 | 82 | 134 | 32 | 22 | 28 | 28 | 14 |
| 3 | 243 | 257 | 33 | 30 | 121 | 76 | 153 | 32 | 22 | 25 | 28 | 14 |
| 4 | 243 | 254 | 31 | 30 | 298 | 72 | 127 | 31 | 21 | 25 | 27 | 16 |
| 5 | 245 | 256 | 60 | 27 | 358 | 66 | 163 | 30 | 21 | 23 | 29 | 12 |
| 6 | 241 | 254 | 40 | 27 | 333 | 61 | 315 | 29 | 21 | 23 | 35 | 16 |
| 7 | 238 | 258 | 32 | 27 | 337 | 59 | 189 | 29 | 22 | 26 | 30 | 15 |
| 8 | 233 | 263 | 29 | 27 | 231 | 63 | 112 | 32 | 76 | 48 | 27 | 15 |
| 9 | 323 | 265 | 27 | 1,410 | 120 | 79 | 81 | 31 | 32 | 33 | 26 | 15 |
| 10 | 358 | 261 | 25 | 1,580 | 141 | 201 | 67 | 61 | 55 | 161 | 23 | 15 |
| 11 | 243 | 256 | 24 | 1,330 | 123 | 741 | 59 | 129 | 43 | 483 | 32 | 15 |
| 12 | 240 | 258 | 23 | 797 | 86 | 1,750 | 53 | 82 | 66 | 4,650 | 26 | 13 |
| 13 | 238 | 259 | 23 | 279 | 89 | 1,580 | 50 | 62 | 153 | 3,590 | 26 | 22 |
| 14 | 232 | 260 | 23 | 136 | 148 | 2,590 | 47 | 46 | 49 | 1,700 | 26 | 43 |
| 15 | 239 | 399 | 24 | 86 | 235 | 1,990 | 46 | 62 | 35 | 869 | 24 | 88 |
| 16 | 261 | 392 | 25 | 67 | 698 | 540 | 50 | 77 | 62 | 508 | 22 | 62 |
| 17 | 265 | 265 | 23 | 57 | 1,160 | 256 | 45 | 58 | 212 | 340 | 21 | 168 |
| 18 | 259 | 268 | 22 | 52 | 3,680 | 172 | 43 | 44 | 41 | 304 | 36 | 53 |
| 19 | 258 | 265 | 21 | 44 | 2,760 | 138 | 40 | 38 | 33 | 176 | 74 | 36 |
| 20 | 268 | 260 | 97 | 43 | 3,390 | 905 | 45 | 34 | 50 | 113 | 36 | 31 |
| 21 | 269 | 228 | 37 | 41 | 3,270 | 1,670 | 78 | 32 | 88 | 81 | 27 | 26 |
| 22 | 265 | 256 | 424 | 35 | 1,180 | 1,510 | 52 | 30 | 48 | 80 | 22 | 25 |
| 23 | 264 | 246 | 118 | 33 | 408 | 1,990 | 44 | 29 | 36 | 65 | 21 | 23 |
| 24 | 261 | 238 | 52 | 30 | 246 | 1,610 | 40 | 27 | 30 | 54 | 20 | 22 |
| 25 | 261 | 234 | 89 | 655 | 174 | 462 | 38 | 26 | 28 | 48 | 27 | 22 |
| 26 | 257 | 446 | 54 | 863 | 138 | 212 | 36 | 25 | 26 | 48 | 34 | 21 |
| 27 | 258 | 225 | 49 | 513 | 117 | 145 | 36 | 24 | 24 | 44 | 20 | 21 |
| 28 | 289 | 127 | 41 | 377 | 104 | 116 | 34 | 23 | 23 | 39 | 19 | 20 |
| 29 | 258 | 118 | 37 | 256 | 95 | 101 | 33 | 24 | 23 | 36 | 17 | 34 |
| 30 | 258 | 110 | 34 | 125 | --- | 93 | 32 | 25 | 25 | 34 | 16 | 84 |
| 31 | 254 | --- | 33 | 155 | --- | 84 | --- | 23 | --- | 31 | 15 | --- |
| Total | 8,010 | 7,687 | 1,660 | 9,191 | 20,306 | 19,502 | 2,321 | 1,259 | 1,410 | 13,719 | 844 | 976 |
| Mean | 258 | 256 | 53.5 | 296 | 700 | 629 | 77.4 | 40.6 | 47.0 | 443 | 27.2 | 32.5 |
| Max | 358 | 446 | 424 | 1,580 | 3,680 | 2,590 | 315 | 129 | 212 | 4,650 | 74 | 168 |
| Min | 232 | 110 | 21 | 27 | 86 | 59 | 32 | 23 | 21 | 23 | 15 | 12 |
| Ac-ft | 15,890 | 15,250 | 3,290 | 18,230 | 40,280 | 38,680 | 4,600 | 2,500 | 2,800 | 27,210 | 1,670 | 1,940 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2012 [Z], BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 520 | 632 | 604 | 849 | 860 | 617 | 597 | 558 | 579 | 159 | 68.5 | 225 |
| Max | 7,836 | 5,757 | 2,064 | 3,360 | 3,258 | 2,138 | 4,185 | 4,153 | 3,897 | 1,148 | 368 | 1,945 |
| (WY) | (1995) | (1999) | (1977) | (1998) | (1992) | (2001) | (1979) | (1983) | (2001) | (2007) | (1983) | (1979) |
| Min | 18.7 | 25.7 | 31.4 | 33.0 | 30.8 | 29.3 | 20.9 | 16.8 | 14.7 | 13.6 | 14.7 | 20.0 |
| (WY) | (2000) | (1991) | (1981) | (2000) | (2000) | (2011) | (2011) | (2011) | (2011) | (2011) | (2000) | (2000) |

**08068000 West Fork San Jacinto River near Conroe, TX—Continued**

**SUMMARY STATISTICS**

| | Calendar Year 2011 | | Water Year 2012 | | Water Years 1973 - 2012 [z] | |
|---|---|---|---|---|---|---|
| **Annual total** | 34,189.2 | | 86,885 | | | |
| **Annual mean** | 93.7 | | 237 | | 520 | |
| **Highest annual mean** | | | | | 1,444 | 1995 |
| **Lowest annual mean** | | | | | 39.3 | 2000 |
| **Highest daily mean** | 446 | Nov 26 | 4,650 | Jul 12 | 97,200 | Oct 18, 1994 |
| **Lowest daily mean** | 7.7 | Jul 14 | 12 | Sep 5 | 7.7 | Jul 14, 2011 |
| **Annual seven-day minimum** | 8.7 | Jul 8 | 15 | Aug 30 | 8.7 | Jul 8, 2011 |
| **Maximum peak flow** | | | 7,560 | Jul 12 | 115,000 | Oct 18, 1994 |
| **Maximum peak stage** | | | 13.58 | Jul 12 | 32.30 | Oct 18, 1994 |
| **Annual runoff (ac-ft)** | 67,810 | | 172,300 | | 376,600 | |
| **10 percent exceeds** | 256 | | 394 | | 1,340 | |
| **50 percent exceeds** | 32 | | 60 | | 85 | |
| **90 percent exceeds** | 11 | | 23 | | 24 | |

[z] Period of regulated streamflow.