

08186000 Cibolo Creek near Falls City, TX

San Antonio Basin
Cibolo Subbasin

LOCATION.--Lat 29°00'50", long 97°55'48" referenced to North American Datum of 1927, Karnes County, TX, Hydrologic Unit 12100304, at right downstream abutment of bridge on State Highway 123, 5.7 mi northeast of Falls City, and 10.4 mi upstream from mouth.

DRAINAGE AREA.--827 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1930 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Oct. 1961 to Oct. 1966, Oct. 1968 to Sept. 1996, Dec. 2006, Oct. 2007.

BIOCHEMICAL DATA: Oct. 1961 to Oct. 1966, Oct. 1968 to Sept. 1996, Dec. 2006.

BIOLOGICAL DATA: Dec. 1969 to Aug. 1995.

PESTICIDE DATA: Aug. 1970.

RADIOCHEMICAL DATA: Feb. 1981 to Apr. 1981, Oct. 2007.

STABLE ISOTOPE DATA: Dec. 2006 to Oct. 2007.

SEDIMENT DATA: Feb. 1966, Sept. 1967 to June 1970, May 1972 to Sept. 1975.

REVISED RECORDS.--WSP 733: 1931. WSP 1058: 1935. WSP 1562: 1931(M), 1933. WSP 1923: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 264.28 ft above NGVD of 1929. Nov. 4, 1930, to Aug. 4, 1940, water-stage recorder at site 1,600 ft upstream at datum 0.56 ft higher. Aug. 5 to Sept. 13, 1940, nonrecording gage at site 150 ft to the left at same datum. Sept. 14, 1940, to Mar. 15, 1990, water-stage recorder at site 150 ft to the left at same datum. Mar. 16, 1990, to July 15, 1993, water-stage recorder at site 50 ft downstream at same datum. Satellite telemeter at station.

REMARKS.--Records good. Flow is affected at times by discharge from the flood-detention pools of ten floodwater-retarding structures with a combined detention capacity of 16,620 acre-ft. These structures control runoff from 62.9 mi². There are several diversions for irrigation above station. Much of the base flow is discharge from the Carrizo Sands in the vicinity of Sutherland Springs. No flow at times. Some records listed in the "Period of Record" for surface water and water quality may not be available electronically.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 35 ft occurred in Oct. 1913 (discharge, about 35,000 ft³/s). Maximum stage since at least 1890, that of Oct. 19, 1998.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,100 ft³/s and (or) maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage height (ft) |
|--------|------|--------------------------------|------------------|
| Jan 17 | 1715 | *298 | *2.48 |

08186000 Cibolo Creek near Falls City, TX—Continued

**DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1 | 69 | 48 | 48 | 48 | 69 | 48 | 34 | 23 | 19 | 22 | 15 | 11 |
| 2 | 66 | 52 | 48 | 47 | 68 | 47 | 33 | 23 | 17 | 21 | 14 | 11 |
| 3 | 63 | 61 | 47 | 46 | 67 | 47 | 33 | 22 | 17 | 21 | 13 | 11 |
| 4 | 62 | 66 | 47 | 47 | 67 | 46 | 32 | 22 | 17 | 20 | 13 | 9.3 |
| 5 | 60 | 53 | 47 | 47 | 67 | 44 | 30 | 22 | 18 | 20 | 12 | 8.6 |
| 6 | 61 | 49 | 47 | 48 | 69 | 43 | 30 | 23 | 17 | 21 | 12 | 8.3 |
| 7 | 60 | 49 | 45 | 47 | 70 | 42 | 32 | 23 | 17 | 20 | 11 | 9.4 |
| 8 | 58 | 47 | 47 | 46 | 70 | 41 | 32 | 23 | 17 | 19 | 11 | 9.4 |
| 9 | 57 | 46 | 48 | 77 | 74 | 40 | 30 | 23 | 17 | 19 | 11 | 9.4 |
| 10 | 56 | 46 | 47 | 78 | 73 | 41 | 29 | 23 | 16 | 18 | 10 | 11 |
| 11 | 55 | 47 | 48 | 115 | 70 | 40 | 29 | 22 | 15 | 21 | 10 | 11 |
| 12 | 55 | 47 | 47 | 85 | 66 | 38 | 28 | 27 | 15 | 21 | 10 | 11 |
| 13 | 56 | 86 | 46 | 64 | 63 | 37 | 27 | 30 | 16 | 20 | 10 | 11 |
| 14 | 55 | 60 | 44 | 55 | 62 | 36 | 28 | 27 | 16 | 19 | 11 | 11 |
| 15 | 54 | 53 | 45 | 57 | 61 | 35 | 28 | 26 | 16 | 19 | 10 | 12 |
| 16 | 52 | 51 | 47 | 79 | 61 | 35 | 27 | 27 | 16 | 18 | 12 | 14 |
| 17 | 51 | 49 | 48 | 239 | 62 | 36 | 27 | 27 | 15 | 18 | 12 | 16 |
| 18 | 52 | 49 | 46 | 235 | 61 | 36 | 27 | 25 | 15 | 18 | 12 | 18 |
| 19 | 51 | 48 | 45 | 145 | 59 | 35 | 27 | 23 | 14 | 18 | 12 | 16 |
| 20 | 51 | 46 | 46 | 111 | 58 | 34 | 26 | 24 | 15 | 18 | 12 | 14 |
| 21 | 51 | 47 | 46 | 93 | 58 | 33 | 26 | 24 | 15 | 16 | 12 | 15 |
| 22 | 50 | 47 | 48 | 84 | 56 | 33 | 27 | 24 | 23 | 16 | 11 | 16 |
| 23 | 49 | 48 | 48 | 79 | 56 | 34 | 27 | 23 | 27 | 22 | 11 | 14 |
| 24 | 49 | 50 | 48 | 76 | 55 | 35 | 26 | 23 | 28 | 22 | 10 | 13 |
| 25 | 49 | 50 | 49 | 74 | 54 | 34 | 26 | 23 | 62 | 20 | 10 | 12 |
| 26 | 49 | 48 | 49 | 74 | 52 | 34 | 26 | 23 | 43 | 17 | 11 | 12 |
| 27 | 49 | 49 | 53 | 73 | 51 | 33 | 25 | 21 | 33 | 16 | 11 | 12 |
| 28 | 50 | 48 | 52 | 71 | 50 | 32 | 24 | 21 | 28 | 15 | 11 | 12 |
| 29 | 47 | 48 | 50 | 71 | --- | 32 | 23 | 20 | 25 | 15 | 11 | 14 |
| 30 | 45 | 47 | 50 | 70 | --- | 32 | 23 | 20 | 24 | 16 | 12 | 14 |
| 31 | 47 | --- | 50 | 69 | --- | 33 | --- | 19 | --- | 16 | 12 | --- |
| Total | 1,679 | 1,535 | 1,476 | 2,550 | 1,749 | 1,166 | 842 | 726 | 633 | 582 | 355 | 366.4 |
| Mean | 54.2 | 51.2 | 47.6 | 82.3 | 62.5 | 37.6 | 28.1 | 23.4 | 21.1 | 18.8 | 11.5 | 12.2 |
| Max | 69 | 86 | 53 | 239 | 74 | 48 | 34 | 30 | 62 | 22 | 15 | 18 |
| Min | 45 | 46 | 44 | 46 | 50 | 32 | 23 | 19 | 14 | 15 | 10 | 8.3 |
| Ac-ft | 3,330 | 3,040 | 2,930 | 5,060 | 3,470 | 2,310 | 1,670 | 1,440 | 1,260 | 1,150 | 704 | 727 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2011, BY WATER YEAR (WY)

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 161 | 137 | 104 | 99.0 | 117 | 80.2 | 154 | 222 | 243 | 159 | 66.2 | 162 |
| Max | 3,246 | 2,596 | 2,156 | 1,627 | 1,756 | 860 | 1,492 | 2,230 | 2,821 | 3,302 | 909 | 1,579 |
| (WY) | (1999) | (2005) | (1992) | (1968) | (1992) | (1992) | (1977) | (1972) | (1987) | (2002) | (1946) | (1973) |
| Min | 8.49 | 8.08 | 9.99 | 10.3 | 9.64 | 7.04 | 5.23 | 4.59 | 1.74 | 1.96 | 2.40 | 5.41 |
| (WY) | (1932) | (1932) | (1955) | (1956) | (1956) | (1956) | (1971) | (1971) | (1967) | (1971) | (1956) | (1984) |

08186000 Cibolo Creek near Falls City, TX—Continued

SUMMARY STATISTICS

| | Calendar Year 2010 | | Water Year 2011 | | Water Years 1931 - 2011 | |
|---------------------------------|--------------------|--------|-----------------|--------|-------------------------|--------------|
| Annual total | 73,615 | | 13,659.4 | | | |
| Annual mean | 202 | | 37.4 | | 142 | |
| Highest annual mean | | | | | 717 | 1992 |
| Lowest annual mean | | | | | 10.4 | 1956 |
| Highest daily mean | 9,060 | Sep 9 | 239 | Jan 17 | 45,000 | Oct 19, 1998 |
| Lowest daily mean | 42 | Aug 27 | 8.3 | Sep 6 | 0.00 | Jul 30, 1956 |
| Annual seven-day minimum | 43 | Aug 26 | 9.3 | Sep 3 | 0.00 | Aug 4, 1956 |
| Maximum peak flow | | | 298 | Jan 17 | 51,200 | Oct 19, 1998 |
| Maximum peak stage | | | 2.48 | Jan 17 | ^a 39.84 | Oct 19, 1998 |
| Annual runoff (ac-ft) | 146,000 | | 27,090 | | 102,700 | |
| 10 percent exceeds | 183 | | 65 | | 144 | |
| 50 percent exceeds | 65 | | 33 | | 29 | |
| 90 percent exceeds | 47 | | 12 | | 10 | |

^a From floodmark.

