



Water-Data Report 2008

**08084800 California Creek near Stamford, TX**

Middle Brazos-Clear Fork Basin  
Paint Subbasin

LOCATION.--Lat 32°55'51", long 99°38'32" referenced to North American Datum of 1927, Jones County, TX, Hydrologic Unit 12060103, near right bank at downstream side of bridge on Farm Road 142, 6.0 mi northeast of Avoca, 9.0 mi east of Stamford, and 19.4 mi upstream from Paint Creek.

DRAINAGE AREA.--478 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Oct. 1962 to current year. Water-quality records: Chemical data: Oct. 1962 to Sept. 1979. Biochemical data: Oct. 1962 to Sept. 1973. Specific conductance: Oct. 1962 to Sept. 1979. Water temperature: Oct. 1962 to Sept. 1979.

REVISED RECORDS.--WSP 2122: 1965. WDR TX-76-2: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,470 ft above NGVD of 1929, from topographic map. Satellite telemeter at station.

REMARKS.--Records good. No known regulation. There are three small diversions upstream from station. No flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1897, 29.6 ft, present datum, on June 10, 1962, from floodmark; second highest flood in July 1961 (stage unknown); third highest flood in May 1957 (stage unknown) was about equal to flood on June 24, 1915; flood of Sept. 1962 reached a stage of 28.1 ft, present datum, from information by local residents. Another large flood is reported to have occurred in June 1909.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 476 ft<sup>3</sup>/s and (or) maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|
| Apr 25 | 1830 | 1,190                             | 16.24               |
| May 30 | 0600 | 1,350                             | 16.99               |
| Jun 21 | 0200 | 2,060                             | *19.91              |

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

| <b>Day</b>   | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> |
|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>1</b>     | 9.4        | 3.4        | 4.1        | 3.8        | 3.5        | 3.1        | 3.5        | 17         | 106        | 6.2        | 1.2        | 1.7        |
| <b>2</b>     | 8.6        | 3.6        | 4.0        | 3.7        | 3.4        | 3.2        | 3.2        | 12         | 43         | 5.3        | 1.2        | 1.4        |
| <b>3</b>     | 9.0        | 3.6        | 3.7        | 3.7        | 3.5        | 3.3        | 3.2        | 7.4        | 29         | 4.7        | 1.1        | 1.1        |
| <b>4</b>     | 8.6        | 3.5        | 3.8        | 3.8        | 3.5        | 3.4        | 2.9        | 5.2        | 24         | 4.1        | 0.99       | 0.92       |
| <b>5</b>     | 7.3        | 3.4        | 3.6        | 4.0        | 3.6        | 3.1        | 3.0        | 4.7        | 21         | 3.6        | 0.95       | 0.66       |
| <b>6</b>     | 6.9        | 3.2        | 3.2        | 4.0        | 3.4        | 3.5        | 2.6        | 179        | 20         | 3.3        | 1.0        | 0.15       |
| <b>7</b>     | 6.2        | 3.2        | 3.4        | 4.2        | 3.4        | 3.4        | 2.5        | 176        | 14         | 3.0        | 0.90       | 0.06       |
| <b>8</b>     | 5.9        | 3.3        | 3.5        | 4.1        | 3.4        | 3.1        | 2.4        | 93         | 9.5        | 2.8        | 0.81       | 0.26       |
| <b>9</b>     | 5.6        | 3.4        | 3.5        | 3.9        | 3.3        | 3.1        | 2.5        | 38         | 8.6        | 2.8        | 0.57       | 16         |
| <b>10</b>    | 5.2        | 3.3        | 3.3        | 3.6        | 3.2        | 4.1        | 3.7        | 22         | 8.5        | 2.6        | 0.44       | 90         |
| <b>11</b>    | 7.9        | 3.2        | 3.8        | 3.7        | 3.2        | 3.7        | 4.2        | 11         | 6.7        | 2.4        | 1.7        | 242        |
| <b>12</b>    | 4.3        | 3.3        | 4.2        | 3.7        | 3.1        | 3.9        | 3.6        | 6.8        | 5.6        | 2.3        | 1.5        | 45         |
| <b>13</b>    | 4.2        | 3.2        | 4.6        | 3.7        | 3.2        | 3.4        | 3.5        | 5.3        | 4.9        | 2.1        | 1.2        | 11         |
| <b>14</b>    | 4.1        | 3.3        | 6.8        | 3.6        | 3.2        | 3.2        | 2.9        | 5.1        | 4.8        | 2.3        | 0.98       | 7.0        |
| <b>15</b>    | 4.0        | 3.2        | 5.2        | 3.6        | 3.1        | 3.0        | 2.6        | 4.4        | 4.2        | 21         | 1.1        | 4.3        |
| <b>16</b>    | 4.1        | 3.5        | 4.6        | 3.4        | 4.3        | 3.0        | 2.7        | 3.5        | 3.7        | 7.1        | 1.4        | 2.4        |
| <b>17</b>    | 4.1        | 3.6        | 4.3        | 3.3        | 4.8        | 3.2        | 2.9        | 3.1        | 3.8        | 3.7        | 1.6        | 1.6        |
| <b>18</b>    | 3.5        | 3.6        | 5.5        | 3.4        | 4.0        | 15         | 2.5        | 2.6        | 4.4        | 2.7        | 2.5        | 1.3        |
| <b>19</b>    | 3.3        | 3.6        | 5.1        | 3.4        | 3.8        | 22         | 2.3        | 2.4        | 4.2        | 2.1        | 2.3        | 1.2        |
| <b>20</b>    | 3.3        | 3.4        | 4.5        | 3.4        | 3.7        | 17         | 2.0        | 2.3        | 1,260      | 1.8        | 2.3        | 1.2        |
| <b>21</b>    | 3.4        | 3.2        | 4.3        | 3.6        | 3.4        | 22         | 2.0        | 2.2        | 1,470      | 1.6        | 2.4        | 1.2        |
| <b>22</b>    | 3.6        | 3.7        | 4.0        | 3.4        | 3.4        | 12         | 1.9        | 2.2        | 184        | 1.5        | 2.2        | 1.0        |
| <b>23</b>    | 3.4        | 3.4        | 3.7        | 3.4        | 3.4        | 7.7        | 12         | 2.1        | 144        | 1.4        | 1.9        | 1.1        |
| <b>24</b>    | 3.4        | 3.6        | 3.8        | 3.4        | 3.3        | 6.1        | 794        | 2.5        | 61         | 1.4        | 1.6        | 1.2        |
| <b>25</b>    | 4.2        | 4.2        | 3.9        | 3.6        | 3.3        | 5.2        | 1,040      | 4.2        | 36         | 1.3        | 1.4        | 1.3        |
| <b>26</b>    | 3.3        | 4.9        | 4.0        | 3.6        | 3.1        | 4.6        | 606        | 42         | 25         | 1.3        | 1.2        | 1.2        |
| <b>27</b>    | 3.3        | 4.8        | 3.9        | 3.5        | 3.0        | 4.3        | 225        | 256        | 16         | 1.3        | 1.0        | 1.1        |
| <b>28</b>    | 3.4        | 4.8        | 4.1        | 3.7        | 3.0        | 4.0        | 123        | 450        | 11         | 1.2        | 0.62       | 0.98       |
| <b>29</b>    | 3.5        | 4.4        | 4.2        | 3.7        | 2.9        | 4.0        | 49         | 987        | 11         | 1.6        | 0.28       | 0.99       |
| <b>30</b>    | 3.5        | 4.3        | 4.1        | 3.6        | ---        | 4.0        | 26         | 1,130      | 8.9        | 1.6        | 0.81       | 1.1        |
| <b>31</b>    | 3.5        | ---        | 4.0        | 3.4        | ---        | 3.9        | ---        | 327        | ---        | 1.2        | 1.8        | ---        |
| <b>Total</b> | 154.0      | 109.1      | 128.7      | 112.9      | 99.4       | 188.5      | 2,937.6    | 3,806.0    | 3,552.8    | 101.3      | 40.95      | 440.42     |
| <b>Mean</b>  | 4.97       | 3.64       | 4.15       | 3.64       | 3.43       | 6.08       | 97.9       | 123        | 118        | 3.27       | 1.32       | 14.7       |
| <b>Max</b>   | 9.4        | 4.9        | 6.8        | 4.2        | 4.8        | 22         | 1,040      | 1,130      | 1,470      | 21         | 2.5        | 242        |
| <b>Min</b>   | 3.3        | 3.2        | 3.2        | 3.3        | 2.9        | 3.0        | 1.9        | 2.1        | 3.7        | 1.2        | 0.28       | 0.06       |
| <b>Ac-ft</b> | 305        | 216        | 255        | 224        | 197        | 374        | 5,830      | 7,550      | 7,050      | 201        | 81         | 874        |
| <b>Cfsm</b>  | 0.01       | 0.01       | 0.01       | 0.01       | 0.01       | 0.01       | 0.20       | 0.26       | 0.25       | 0.01       | 0.00       | 0.03       |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2008, BY WATER YEAR (WY)**

|             | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> | <b>Jan</b> | <b>Feb</b> | <b>Mar</b> | <b>Apr</b> | <b>May</b> | <b>Jun</b> | <b>Jul</b> | <b>Aug</b> | <b>Sep</b> |
|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Mean</b> | 34.9       | 15.2       | 10.2       | 9.21       | 30.5       | 13.9       | 22.1       | 75.8       | 80.7       | 23.4       | 75.9       | 41.9       |
| <b>Max</b>  | 481        | 229        | 169        | 84.0       | 750        | 132        | 174        | 741        | 546        | 293        | 930        | 575        |
| (WY)        | (1987)     | (1973)     | (1992)     | (1968)     | (1992)     | (1973)     | (1985)     | (1982)     | (2003)     | (2002)     | (1971)     | (1980)     |
| <b>Min</b>  | 0.00       | 0.11       | 0.10       | 0.08       | 0.13       | 0.09       | 0.25       | 0.12       | 0.15       | 0.00       | 0.00       | 0.02       |
| (WY)        | (1969)     | (1971)     | (1965)     | (1965)     | (2000)     | (1966)     | (1967)     | (2000)     | (1976)     | (1964)     | (1965)     | (1968)     |

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## SUMMARY STATISTICS

|  | Calendar Year 2007 |        | Water Year 2008 |        | Water Years 1963 - 2008 |              |
|--|--------------------|--------|-----------------|--------|-------------------------|--------------|
| <b>Annual total</b>                    | 33,515.60          |        | 11,671.67       |        |                         |              |
| <b>Annual mean</b>                     | 91.8               |        | 31.9            |        | 36.1                    |              |
| <b>Highest annual mean</b>             |                    |        |                 |        | 156                     | 1992         |
| <b>Lowest annual mean</b>              |                    |        |                 |        | 1.95                    | 1964         |
| <b>Highest daily mean</b>              | 5,040              | Aug 20 | 1,470           | Jun 21 | 20,400                  | Aug 4, 1978  |
| <b>Lowest daily mean</b>               | 0.17               | Feb 26 | 0.06            | Sep 7  | 0.00                    | Sep 11, 1963 |
| <b>Annual seven-day minimum</b>        | 0.23               | Jan 5  | 0.65            | Sep 2  | 0.00                    | May 17, 1964 |
| <b>Maximum peak flow</b>               |                    |        | 2,060           | Jun 20 | 40,000                  | Aug 4, 1978  |
| <b>Maximum peak stage</b>              |                    |        | 19.91           | Jun 20 | 31.00                   | Aug 4, 1978  |
| <b>Annual runoff (ac-ft)</b>           | 66,480             |        | 23,150          |        | 26,190                  |              |
| <b>Annual runoff (cfs<sup>m</sup>)</b> | 0.192              |        | 0.067           |        | 0.076                   |              |
| <b>10 percent exceeds</b>              | 87                 |        | 20              |        | 27                      |              |
| <b>50 percent exceeds</b>              | 3.8                |        | 3.5             |        | 2.4                     |              |
| <b>90 percent exceeds</b>              | 0.35               |        | 1.2             |        | 0.09                    |              |

<sup>a</sup> From floodmark.<sup>i</sup> From field discharge calculation of peak flow.