

Water-Data Report 2011

**08174600 Peach Creek below Dilworth, TX**

Guadalupe Basin  
Middle Guadalupe Subbasin

LOCATION.--Lat 29°28'26", long 97°18'59" referenced to North American Datum of 1927, Gonzales County, TX, Hydrologic Unit 12100202, on right bank at downstream side of bridge on U.S. Highway 90-A, 1.3 mi downstream from Mitchell Creek, 3.1 mi southwest of Dilworth, 6.4 mi upstream from mouth, and 8.5 mi southeast of Gonzales.

DRAINAGE AREA.--460 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Aug. 1959 to Sept. 1979, Oct. 2000 to current year.

PERIOD OF RECORD, Water-Quality.--

CHEMICAL DATA: Apr. 1962 to Aug. 1979.

REVISED RECORDS.--WSP 2123: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 213.53 ft above NGVD of 1929. Prior to Feb. 11, 1960 nonrecording gage at same site and datum. Satellite telemeter at station.

REMARKS.--Records poor. No known regulation or diversions above station. Flow affected at times by backwater from the Guadalupe River. 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.--Maximum stage since at least 1840, 35.3 ft in June 1940; flood of June 30, 1936 reached a stage of 32.8 ft, but may have been affected by backwater from the Guadalupe River, from information by local residents.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,030 ft<sup>3</sup>/s and (or) maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|
| Jan 16 | 1415 | *81                               | *10.89              |

**08174600 Peach Creek below Dilworth, TX—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**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>     | 17         | 4.1        | 9.3        | 11         | 16         | 6.4        | 3.0        | 0.30       | 0.41       | 0.85       | 0.18       | 0.02       |
| <b>2</b>     | 7.3        | 8.0        | 9.0        | 10         | 15         | 6.2        | 3.0        | 0.25       | 0.35       | 0.69       | 0.18       | 0.02       |
| <b>3</b>     | 2.6        | 9.1        | 8.9        | 10         | 15         | 5.8        | 3.1        | 0.25       | 0.28       | 0.58       | 0.18       | 0.01       |
| <b>4</b>     | 0.85       | 7.9        | 9.0        | 11         | 15         | 5.9        | 3.2        | 0.25       | 0.20       | 0.53       | 0.18       | 0.01       |
| <b>5</b>     | 0.27       | 7.2        | 9.4        | 11         | 14         | 5.9        | 3.0        | 0.29       | 0.14       | 0.48       | 0.17       | 0.00       |
| <b>6</b>     | 0.12       | 6.9        | 9.7        | 11         | 14         | 5.6        | 2.8        | 0.32       | 0.09       | 0.44       | 0.15       | 0.00       |
| <b>7</b>     | 0.06       | 6.9        | 9.9        | 10         | 14         | 5.5        | 2.6        | 0.33       | 0.05       | 0.43       | 0.16       | 0.00       |
| <b>8</b>     | 0.04       | 7.1        | 10         | 10         | 13         | 5.3        | 2.4        | 0.34       | 0.03       | 0.44       | 0.21       | 0.00       |
| <b>9</b>     | 0.04       | 7.3        | 10         | 15         | 13         | 4.7        | 2.1        | 0.36       | 0.02       | 0.48       | 0.24       | 0.00       |
| <b>10</b>    | 0.05       | 7.4        | 11         | 15         | 12         | 4.4        | 1.9        | 0.32       | 0.01       | 0.50       | 0.24       | 0.00       |
| <b>11</b>    | 0.06       | 7.5        | 11         | 14         | 12         | 4.1        | 1.6        | 0.23       | 0.00       | 0.53       | 0.22       | 0.00       |
| <b>12</b>    | 0.07       | 7.6        | 11         | 13         | 11         | 4.0        | 1.3        | 0.61       | 0.00       | 0.53       | 0.18       | 0.00       |
| <b>13</b>    | 0.10       | 8.5        | 11         | 12         | 12         | 3.7        | 1.2        | 10         | 0.00       | 0.52       | 0.15       | 0.00       |
| <b>14</b>    | 0.12       | 9.3        | 11         | 11         | 11         | 3.4        | 1.3        | 12         | 0.00       | 0.49       | 0.14       | 0.00       |
| <b>15</b>    | 0.12       | 9.0        | 11         | 13         | 9.1        | 3.4        | 1.3        | 9.9        | 0.00       | 0.45       | 0.14       | 0.00       |
| <b>16</b>    | 0.15       | 9.3        | 11         | 57         | 7.9        | 3.3        | 1.3        | 8.4        | 0.01       | 0.43       | 0.14       | 0.00       |
| <b>17</b>    | 0.30       | 9.0        | 11         | 62         | 7.7        | 3.1        | 1.2        | 7.3        | 0.01       | 0.42       | 0.23       | 0.00       |
| <b>18</b>    | 1.4        | 8.6        | 11         | 52         | 7.3        | 3.0        | 1.1        | 6.4        | 0.01       | 0.40       | 0.35       | 0.00       |
| <b>19</b>    | 4.8        | 8.4        | 11         | 36         | 7.3        | 3.0        | 1.0        | 5.6        | 0.01       | 0.43       | 0.47       | 0.00       |
| <b>20</b>    | 6.7        | 8.5        | 11         | 28         | 7.7        | 3.1        | 1.0        | 4.6        | 0.02       | 0.48       | 0.55       | 0.01       |
| <b>21</b>    | 7.6        | 8.7        | 11         | 24         | 7.3        | 3.2        | 0.99       | 3.9        | 0.02       | 0.45       | 0.55       | 0.01       |
| <b>22</b>    | 7.5        | 8.9        | 11         | 22         | 7.4        | 3.1        | 0.95       | 3.2        | 0.19       | 0.42       | 0.47       | 0.02       |
| <b>23</b>    | 7.2        | 8.9        | 11         | 21         | 7.4        | 3.1        | 1.0        | 2.6        | 4.5        | 0.42       | 0.39       | 0.02       |
| <b>24</b>    | 6.8        | 9.0        | 11         | 20         | 7.0        | 3.0        | 1.1        | 2.0        | 7.7        | 0.38       | 0.28       | 0.02       |
| <b>25</b>    | 6.4        | 9.1        | 11         | 19         | 6.5        | 3.0        | 0.98       | 1.6        | 6.4        | 0.34       | 0.20       | 0.02       |
| <b>26</b>    | 6.0        | 8.8        | 12         | 19         | 6.6        | 3.0        | 0.89       | 1.3        | 4.7        | 0.32       | 0.14       | 0.02       |
| <b>27</b>    | 5.6        | 9.0        | 11         | 18         | 6.5        | 3.0        | 0.84       | 1.1        | 3.2        | 0.29       | 0.11       | 0.03       |
| <b>28</b>    | 5.3        | 10         | 11         | 17         | 6.5        | 3.2        | 0.72       | 0.86       | 2.1        | 0.25       | 0.08       | 0.06       |
| <b>29</b>    | 4.6        | 9.7        | 11         | 17         | ---        | 3.2        | 0.53       | 0.67       | 1.4        | 0.21       | 0.06       | 0.10       |
| <b>30</b>    | 4.1        | 9.5        | 11         | 16         | ---        | 3.1        | 0.39       | 0.55       | 1.0        | 0.18       | 0.04       | 0.16       |
| <b>31</b>    | 3.9        | ---        | 11         | 16         | ---        | 3.0        | ---        | 0.48       | ---        | 0.18       | 0.03       | ---        |
| <b>Total</b> | 107.15     | 249.2      | 328.2      | 621        | 289.2      | 123.7      | 47.79      | 86.31      | 32.85      | 13.54      | 6.81       | 0.53       |
| <b>Mean</b>  | 3.46       | 8.31       | 10.6       | 20.0       | 10.3       | 3.99       | 1.59       | 2.78       | 1.09       | 0.44       | 0.22       | 0.02       |
| <b>Max</b>   | 17         | 10         | 12         | 62         | 16         | 6.4        | 3.2        | 12         | 7.7        | 0.85       | 0.55       | 0.16       |
| <b>Min</b>   | 0.04       | 4.1        | 8.9        | 10         | 6.5        | 3.0        | 0.39       | 0.23       | 0.00       | 0.18       | 0.03       | 0.00       |
| <b>Ac-ft</b> | 213        | 494        | 651        | 1,230      | 574        | 245        | 95         | 171        | 65         | 27         | 14         | 1.1        |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2011<sup>b</sup>, 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> | 185        | 225        | 123        | 150        | 164        | 98.7       | 258        | 245        | 251        | 62.1       | 11.5       | 112        |
| <b>Max</b>  | 1,720      | 1,685      | 1,114      | 1,149      | 727        | 584        | 3,062      | 1,690      | 1,867      | 613        | 121        | 742        |
| (WY)        | (1961)     | (2005)     | (1977)     | (1974)     | (1969)     | (1969)     | (1977)     | (1972)     | (1968)     | (2002)     | (2001)     | (1961)     |
| <b>Min</b>  | 0.00       | 0.00       | 0.00       | 0.00       | 0.22       | 0.02       | 0.40       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
| (WY)        | (1964)     | (1965)     | (1965)     | (1967)     | (1967)     | (1967)     | (1963)     | (1963)     | (1963)     | (1963)     | (1962)     | (1960)     |

**08174600 Peach Creek below Dilworth, TX—Continued****SUMMARY STATISTICS**

|                                 | <b>Calendar Year 2010</b> | <b>Water Year 2011</b> | <b>Water Years 1959 - 2011<sup>h</sup></b> |                    |
|---------------------------------|---------------------------|------------------------|--|--------------------|
| <b>Annual total</b>             | 50,813.40                 | 1,906.28               |  |                    |
| <b>Annual mean</b>              | 139                       | 5.22                   | 157  |                    |
| <b>Highest annual mean</b>      |                           |                        | 503  | 1977               |
| <b>Lowest annual mean</b>       |                           |                        | 5.22                                       | 2011               |
| <b>Highest daily mean</b>       | 4,860                     | Jan 16                 | 28,700                                     | Apr 20, 1977       |
| <b>Lowest daily mean</b>        | 0.00                      | Jan 9                  | 0.00                                       | Aug 1, 1959        |
| <b>Annual seven-day minimum</b> | 0.01                      | Jan 8                  | 0.00                                       | Aug 1, 1959        |
| <b>Maximum peak flow</b>        |                           |                        | 81   | Jan 16             |
| <b>Maximum peak stage</b>       |                           |                        | 10.89                                      | Jan 16             |
| <b>Annual runoff (ac-ft)</b>    | 100,800                   | 3,780                  | 76,800                                     | Apr 20, 1977       |
| <b>10 percent exceeds</b>       | 153                       | 12                     | 113,600                                    | <sup>a</sup> 33.11 |
| <b>50 percent exceeds</b>       | 19                        | 3.0                    | 150  | 5.6                |
| <b>90 percent exceeds</b>       | 0.57                      | 0.02                   | 0.00                                       |                    |

<sup>h</sup> See Period of Record paragraph.

<sup>a</sup> From floodmark.

