CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

At the end of October, total storage in 109 of the state’s major reservoirs was at 18.4 million acre-feet*, or 59% of the total conservation storage capacity, a record low since 1990. This is 0.40 million acre-feet less than a month ago.

No reservoirs held 100% of their capacity. Ten reservoirs were at or below 10% full: E.V. Spence, O. C. Fisher, Twin Buttes, Hords Creek Lake, and Meredith were effectively empty, Electra and J. B. Thomas were at 1% full, Red Bluff was 3%, Palo Duro was 7%, and Mackenzie was 9% full.

All regions were under 70% in combined storage, with North Central (68%) and East (64%) being the highest and the High Plains (2%) and Trans-Pecos regions (3%) being the lowest. Storage declined in all regions except the Upper Coast over the last month, and in all regions over the last year.

Elephant Butte reservoir held 207,500 acre-feet, or 11.0% of storage capacity. This is 6,500 acre-ft more than a month ago.

* Only the Texas share of storage in border reservoirs is counted.
OCTOBER RESERVOIR CONDITION

**Reservoir Storage Index**

As of: 10/31/2011

**Legend**

- 10% or less: Exceptionally Low
- 10% to 20%: Extremely Low
- 20% to 40%: Severely Low
- 40% to 60%: Moderately Low
- 60% to 70%: Abnormally Low
- 70% or greater: Normal to High
- No Conservation Storage

*Percent of combined conservation storage capacity of all major water supply reservoirs by sub-basin (dead pools are excluded)*

**Reservoir Storage by Climatic Region (% Full)**

As of: 10/31/2011

**Legend**

- <10: Exceptionally Low
- 10% to 20%: Extremely Low
- 20% to 40%: Severely Low
- 40% to 60%: Moderately Low
- 60% to 70%: Abnormally Low
- >=70: Normal to High
- No Data

Data courtesy of U. S. Geological Survey and Texas Water Development Board. Graphic created by TWDB.

*Percent of combined conservation storage capacity of all major water supply reservoirs for that region (dead pools are excluded)*
OCTOBER STREAMFLOW CONDITION

Of 29 reporting index stations in October, computed 30-day mean flows were exceptionally low (<5% rank) at 6 stations, extremely low (5%-10%) at 6 stations, severely low (10-15%) at 3 stations, moderately low (15%-20%) at 1 station, abnormally low (20%-30%) at 1 station, and near normal (30% - 70%) at the remaining 12 stations. Compared to September, flows have increased at 21 index stations and decreased at 3 stations.

On a regional basis, flows in October were exceptionally low in the Trans-Pecos region, extremely low in East Texas, severely low in the Edwards Plateau region, moderately low in South Central Texas; abnormally low in the Low Rolling Plains and Upper Coast regions, and near normal in the High Plains, North Central and Southern regions. Streamflow in the Lower Valley region is not monitored.

Note:
Conservation storage capacity is the space available to store water above the lowest outlet and below the top of conservation pool, or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included is any water in flood control storage (above the top of conservation pool or normal maximum operating level), or any water in the dead storage. Conservation storage percentage is based on the conservation storage capacity of the reservoir and the conservation storage in the reservoir on date shown. Percent change is given by 100*(current conservation storage - past conservation storage)/conservation storage capacity. Figures shown are for the Texas share of conservation storage in all reservoirs.
## CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

<table>
<thead>
<tr>
<th>Name of Lake or Reservoir</th>
<th>No. on Map</th>
<th>Conservation Storage Capacity (acre-feet)</th>
<th>Conservation Storage Late Oct. 2011 (acre-feet)</th>
<th>Change since Late Sep. 2011 (acre-feet) (%)</th>
<th>Change since Late Oct. 2010 (acre-feet) (%)</th>
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### CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

<table>
<thead>
<tr>
<th>Name of Lake or Reservoir</th>
<th>No. on Map</th>
<th>Conservation Storage Capacity (acre-feet)</th>
<th>Conservation Storage Late Oct. 2011 (acre-feet)</th>
<th>Change since Late Sep. 2011 (acre-feet) (%)</th>
<th>Change since Late Oct. 2010 (acre-feet) (%)</th>
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<tbody>
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#### EAST

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<tr>
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<th>No. on Map</th>
<th>Conservation Storage Capacity (acre-feet)</th>
<th>Conservation Storage Late Oct. 2011 (acre-feet)</th>
<th>Change since Late Sep. 2011 (acre-feet) (%)</th>
<th>Change since Late Oct. 2010 (acre-feet) (%)</th>
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<td>Jacksonville, Lake</td>
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<td>25,670</td>
<td>19,940</td>
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<td>39,521</td>
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<td>-11,339</td>
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<td>17,113</td>
<td>12,273</td>
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<td>-2,736</td>
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<tr>
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<td>2,857,077</td>
<td>1,583,197</td>
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<td>-408,054</td>
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<tr>
<td>Toledo Bend Reservoir (Texas)</td>
<td>85</td>
<td>2,236,450</td>
<td>1,310,318</td>
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<td>-283,323</td>
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<tr>
<td>Toledo Bend Reservoir (TX &amp; LA)</td>
<td>85</td>
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<td>-566,645</td>
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<td>-25,000</td>
<td>-303,867</td>
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<tr>
<td>B A Steinhausen Lake</td>
<td>87</td>
<td>66,966</td>
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<td>-6,533</td>
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<td>Conroe, Lake</td>
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<td>416,188</td>
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<td>-95,720</td>
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<tr>
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<td>6,460,350</td>
<td>-247,985</td>
<td>-1,540,130</td>
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</table>

#### TRANS-PECOS

<table>
<thead>
<tr>
<th>Name of Lake or Reservoir</th>
<th>No. on Map</th>
<th>Conservation Storage Capacity (acre-feet)</th>
<th>Conservation Storage Late Oct. 2011 (acre-feet)</th>
<th>Change since Late Sep. 2011 (acre-feet) (%)</th>
<th>Change since Late Oct. 2010 (acre-feet) (%)</th>
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<tbody>
<tr>
<td>Red Bluff Reservoir</td>
<td>89</td>
<td>130,170</td>
<td>3,567</td>
<td>-223</td>
<td>-48,501</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td>130,170</td>
<td>3,567</td>
<td>-223</td>
<td>-48,501</td>
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</tbody>
</table>
**CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS**

<table>
<thead>
<tr>
<th>Name of Lake or Reservoir</th>
<th>No. on Map</th>
<th>Conservation Storage Capacity (acre-feet)</th>
<th>Conservation Storage Late Oct. 2011 (acre-feet)</th>
<th>Change since Late Sep. 2011 (acre-feet) (%)</th>
<th>Change since Late Oct. 2010 (acre-feet) (%)</th>
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</thead>
<tbody>
<tr>
<td><strong>EDWARDS PLATEAU</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Oak Creek Reservoir</td>
<td>90</td>
<td>39,260</td>
<td>15,235</td>
<td>-357 -1</td>
<td>-8,729 -22</td>
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<tr>
<td>E V Spence Reservoir</td>
<td>91</td>
<td>517,272</td>
<td>2,323</td>
<td>-39 0</td>
<td>-17,515 -3</td>
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<tr>
<td>O C Fisher Lake</td>
<td>92</td>
<td>79,483</td>
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<td>0 0</td>
<td>0 0</td>
</tr>
<tr>
<td>*O H Ivie Reservoir</td>
<td>93</td>
<td>554,335</td>
<td>108,861</td>
<td>-5,287 -1</td>
<td>-82,876 -15</td>
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<tr>
<td>Twin Buttes Reservoir</td>
<td>94</td>
<td>177,850</td>
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<td>975 -1</td>
<td>-21,123 -12</td>
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<tr>
<td>Brady Creek Reservoir</td>
<td>95</td>
<td>29,110</td>
<td>7,314</td>
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<td>-6,596 -23</td>
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<td>Buchanan, Lake</td>
<td>96</td>
<td>875,610</td>
<td>341,330</td>
<td>9,217 1</td>
<td>-332,240 -38</td>
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<tr>
<td>Lyndon B Johnson, Lake</td>
<td>97</td>
<td>113,323</td>
<td>112,108</td>
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<td>547 0</td>
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<tr>
<td>*Amistad Reservoir (Texas)</td>
<td>98</td>
<td>1,840,849</td>
<td>1,569,000</td>
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<td>-272,000 -15</td>
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<tr>
<td>*Amistad Reservoir (TX &amp; Mexico)</td>
<td>(98)</td>
<td>3,275,532</td>
<td>2,828,000</td>
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<td>-447,532 -14</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>4,227,092</td>
<td>2,156,171</td>
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<td>-740,532 -18</td>
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<tr>
<td><strong>SOUTH CENTRAL</strong></td>
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<td></td>
<td></td>
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<tr>
<td>Travis, Lake</td>
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<td>1,113,255</td>
<td>392,956</td>
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<td>-513,967 -46</td>
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<tr>
<td>*Austin, Lake</td>
<td>100</td>
<td>21,804</td>
<td>20,805</td>
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<td>-257 -1</td>
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<tr>
<td>Somerville Lake</td>
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<td>147,104</td>
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<td>-73,987 -50</td>
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<td>Medina Lake</td>
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<td>254,823</td>
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<td>-116,404 -46</td>
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<tr>
<td>*Coleto Creek Reservoir</td>
<td>104</td>
<td>31,040</td>
<td>24,483</td>
<td>1,391 4</td>
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<tr>
<td><strong>TOTAL</strong></td>
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<td>1,946,807</td>
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<td><strong>UPPER COAST</strong></td>
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<tr>
<td>Houston, Lake</td>
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<td>128,863</td>
<td>104,700</td>
<td>17,510 14</td>
<td>-22,700 -18</td>
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<tr>
<td>Texana, Lake</td>
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<td>153,246</td>
<td>66,792</td>
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<td>-73,823 -48</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>282,109</td>
<td>171,492</td>
<td>14,556 5</td>
<td>-96,523 -34</td>
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<tr>
<td><strong>SOUTHERN</strong></td>
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<tr>
<td>Choke Canyon Reservoir</td>
<td>107</td>
<td>695,262</td>
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<td>-138,715 -20</td>
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<tr>
<td>Corpus Christi, Lake</td>
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<td>256,961</td>
<td>102,251</td>
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<td>-139,172 -54</td>
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<td>*Falcon Reservoir (Texas)</td>
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<td>1,551,034</td>
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<td>*Falcon Reservoir (TX &amp; Mexico)</td>
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<td><strong>STATE TOTAL</strong></td>
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</tbody>
</table>

* Conservation volume is used as conservation storage capacity because the dead storage is unknown.
October, 2011

Water level measurements were available for sixteen of seventeen key monitoring wells in the state. Water levels rose in ten of the monitoring wells since the beginning of October, ranging from 0.05 feet in the El Paso County Hueco-Mesilla Bolson Aquifer well to 8.98 feet in the Pecos County Edwards-Trinity Aquifer well. Water levels declined in the remaining six monitoring wells, ranging from 0.12 feet in the Hansford County Ogallala Aquifer to 3.93 feet in the Smith County Edwards Aquifer well. The J-17 well in San Antonio recorded a water level of 82.71 feet below land surface. This water level is 1.71 feet below the Stage II critical management level in that segment of the Edwards Aquifer. Stage II restrictions were triggered on June 1, 2011 by the Edwards Aquifer Authority. after the 10 day average of water levels fell below 650 foot elevation or 81 feet below land surface.

* ID is used in this publication to differentiate between the monitoring well number (1 - 17) as displayed on the aquifer map and the TWDB's six- or seven-digit state well "identification" number.
<table>
<thead>
<tr>
<th>Monitoring Well</th>
<th>Oct 2011</th>
<th>Sep 2011</th>
<th>Month Change</th>
<th>Year Change</th>
<th>Historical Change</th>
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<tr>
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<td>152.43</td>
<td>-0.12</td>
<td>-0.49</td>
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<tr>
<td>(2) Lamb 1053602</td>
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<td>139.56</td>
<td>-0.29</td>
<td>-1.02</td>
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<tr>
<td>(3) Martin 2739903</td>
<td>139.9</td>
<td>140.53</td>
<td>0.63</td>
<td>-1.84</td>
<td>-35.01</td>
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<tr>
<td>(4) Tarrant 3215504</td>
<td>460.26</td>
<td>458.85</td>
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<td>-82.26</td>
</tr>
<tr>
<td>(5) Coryell 4035404</td>
<td>495.91</td>
<td>501.79</td>
<td>5.88</td>
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<td>-203.91</td>
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<tr>
<td>(6) Kendall 6802609</td>
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<td>158.64</td>
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<td>-91.02</td>
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<tr>
<td>(7) Bell 5804816</td>
<td>126.12</td>
<td>126.4</td>
<td>0.28</td>
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<td>(8) Bexar 6837203</td>
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<td>88.4</td>
<td>5.69</td>
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<td>(10) Zavala 7702509</td>
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<td>N/A</td>
<td>N/A</td>
<td>-0.43</td>
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<tr>
<td>(11) Harris 6514409</td>
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<tr>
<td>(12) Victoria 8017502</td>
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<td>-7.86</td>
<td>-6.62</td>
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<td>(13) El Paso 4913301</td>
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<td>290.62</td>
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<td>0.68</td>
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<tr>
<td>(14) Reeves 4644501</td>
<td>153.46</td>
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<td>1.57</td>
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<td>-61.37</td>
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<td>(15) Pecos 5216802</td>
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<td>239.54</td>
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<td>-25.68</td>
<td>16.32</td>
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<td>(16) Haskell 2135748</td>
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<td>46.87</td>
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<td>-5.2</td>
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<tr>
<td>(17) Hudspeth 4807516</td>
<td>144.9</td>
<td>150.1</td>
<td>5.2</td>
<td>-4.28</td>
<td>-40.98</td>
</tr>
</tbody>
</table>

**OCTOBER GROUNDWATER LEVELS IN OBSERVATION WELLS**

(1) State Well ID 03-54-301
Near Spearman, Hansford County
Ogallala Aquifer

(2) State Well ID 10-53-602
Near Earth, Lamb County
Ogallala Aquifer

(3) State Well ID 27-39-903
Northwest Martin County
Ogallala Aquifer

(4) State Well ID 32-15-504
Near Hurst, Tarrant County
Paluxy Formation-Trinity Aquifer
(5) State Well ID 40-35-404
Gatesville, Coryell County
Hosston Formation-Trinity Aquifer

(6) State Well ID 68-02-609
Waring, Kendall County
Cow Creek Formation-Trinity Aquifer

(7) State Well ID 58-04-816
Near Salado, Bell County
Edwards (BFZ) Aquifer

(8) State Well ID 58-04-816
Near Salado, Bell County
Edwards (BFZ) Aquifer

(9) State Well ID 34-30-907
Red Springs, Smith County
Carrizo-Wilcox Aquifer

(10) State Well ID 77-02-509
La Pryor, Zavala County
Carrizo-Wilcox Aquifer

(11) State Well ID 65-14-409
Alief, Harris County
Evangeline Formation-Gulf Coast Aquifer
(12) State Well ID 80-17-502
Near Bloomington, Victoria County
Lissie Formation-Gulf Coast Aquifer

(13) State Well ID 49-13-301
El Paso, El Paso County
Hueco-Mesilla Bolson Aquifer

(14) State Well ID 46-44-501
Near Pecos, Reeves County
Pecos Valley Aquifer

(15) State Well ID 52-16-802
Fort Stockton, Pecos County
Edwards-Trinity (Plateau) Aquifer

(16) State Well ID 21-35-748
Near O’Brien, Haskell County
Seymour Aquifer

(17) State Well ID 48-07-516
Dell City, Hudspeth County
Bone Spring - Victorio Peak Aquifer
The late October water level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 82.71 feet below land surface. This was 5.69 feet above last month's measurement, 27.36 feet below last year's measurement, and 36.07 feet below the initial measurement recorded in 1932.

*** Water levels below the red line indicate Edwards Aquifer Authority Stage III drought restrictions. ***