Texas Water Development Board





RESERVOIR STORAGE

October 2011

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.

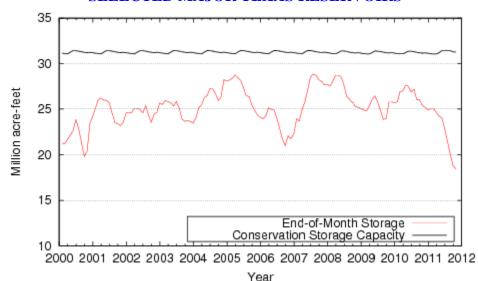
No reservoirs held 100% of their capacity. Ten reservoirs were at or below 10% full: E.V. Spence, O. C. Fisher, Twin Buttes, Hords Creek Lake, and Meredith were effectively empty, Electra and J. B. Thomas were at 1% full, Red Bluff was 3%, Palo Duro was 7%, and Mackenzie was 9% full.

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.

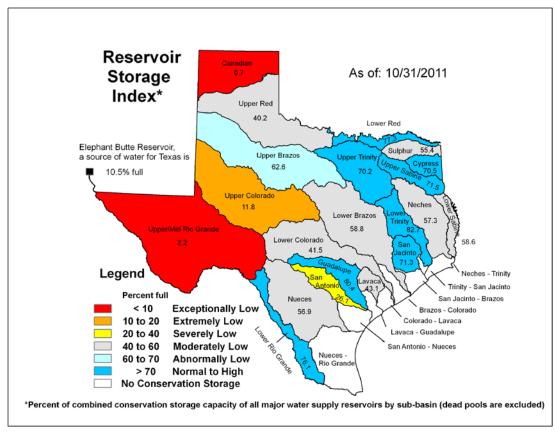
CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

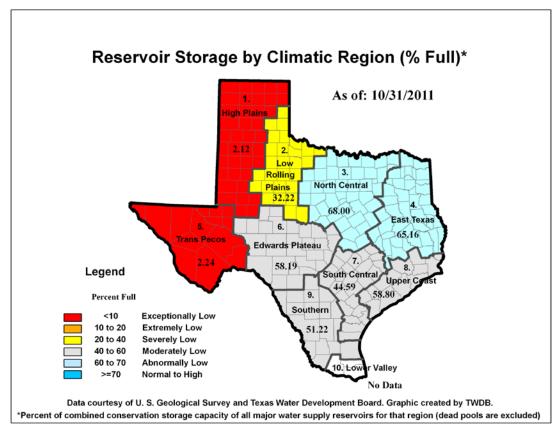


Figures are based on the end of the month data at 109 major reservoirs that represent 96 percent of the total conservation storage capacity of the 175 major water supply reservoirs in Texas. Reservoirs with a conservation storage capacity of 5,000 acre-feet or greater are included.

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Telephone (512) 463-7847 • Telefax (512) 475-2053 • 1-800-RELAYTX (for the hearing impaired)

OCTOBER RESERVOIR CONDITION

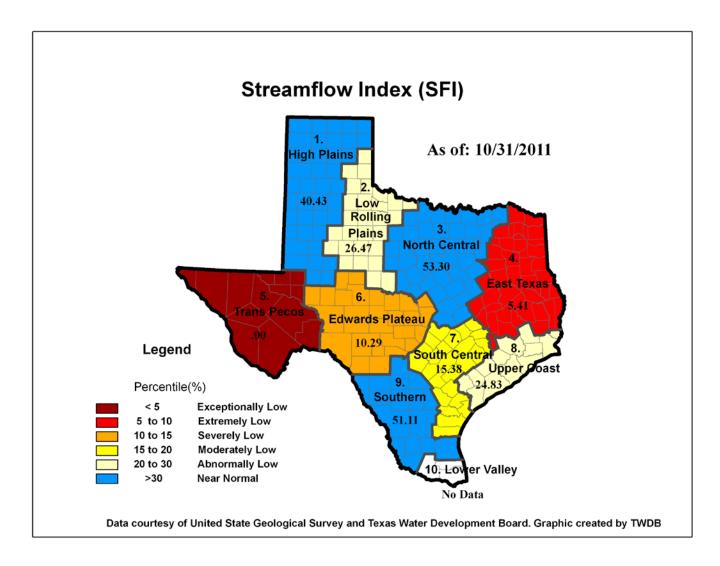




OCTOBER STREAMFLOW CONDITION

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

| Name of Lake | No. | Conservation | Conservati | .on | Change sin | ce | Change sir | ice |
|---|--------|-------------------|----------------|---------|--------------|---------|-------------------|-----------|
| or Reservoir | on | Storage | Storage | | Late Sep | • | Late Oct | • |
| | Map | Capacity | Late Oct. | 2011 | 2011 | | 2010 | |
| | | (acre-feet) | (acre-feet) | (%) | (acre-feet) | (%) | (acre-feet) | (%) |
| | | HIGH PL | | _ | | _ | | |
| Palo Duro Reservoir | 1 | 60,897 | 4,206 | 7 | -443 | -1 | -12,118 | -20 |
| Meredith, Lake (Texas) | 2 | 500,000 | 0 | 0 | 0 | 0 | -6,191 | -1 |
| Meredith, Lake (Texas & Oklahoma) | (2) | 779,556 | 0 | 0 | 0 | 0 | -6,191 | -1 |
| MacKenzie Reservoir White River Lake | 3 4 | 46,429 | 4,395 4,868 | 9 16 | -63 | 0 | -1,914 | -4 |
| TOTAL | 4 | 29,880 637,206 | 13,469 | 16 2 | -257 -763 | -1 0 | -5,953 -26,176 | -20 -4 |
| IOIAL | | 037,200 | 13,409 | 2 | -703 | U | -20,170 | |
| | | LOW ROLLING | PLAINS | | | | | |
| Greenbelt Lake | 5 | 59,500 | 10,904 | 18 | -376 | -1 | -5,535 | -9 |
| *Electra, Lake | 6 | 5,626 | 31 | 1 | 6 | 0 | -428 | -8 |
| N. Fork Buffalo Crk Reservoir | 7 | 15,400 | 2,554 | 17 | 60 | 0 | -4,006 | -26 |
| Kemp, Lake | 8 | 245,308 | 85,738 | 35 | -4,088 | -2 | -159,570 | -65 |
| Millers Creek Reservoir | 9 | 27,888 | 10,719 | 38 | -167 | -1 | -9,556 | -34 |
| Alan Henry Reservoir | 10 | 94,808 | 75,850 | 80 | -1,186 | -1 | -16,272 | -17 |
| Stamford, Lake | 11 | 51,570 | 27,734 | 54 | -942 | -2 | -23,836 | -46 |
| J B Thomas, Lake | 12 | 199,931 | 2,624 | 1 | -503 | 0 | -9,922 | -5 |
| Fort Phantom Hill, Lake | 13 | 70,030 | 38,513 | 55 | 919 | 1 | -24,533 | -35 |
| Sweetwater, Lake | 14 | 10,006 | 3,201 | 32 | -115 | -1 | -2,675 | -27 |
| Colorado City, Lake | 15 | 31,793 | 10,209 | 32 | -188 | -1 | -5,202 | -16 |
| Champion Creek Reservoir | 16 | 41,618 | 5,032 | 12 | 307 | 1 | -2,066 | -5 |
| Abilene, Lake | 17 | 6,099 | 1,867 | 31 | -118 | -2 | -3,389 | -56 |
| Coleman, Lake | 18 | 38,076 | 15,670 | 41 | 522 | 1 | -6,598 | -17 |
| Hords Creek Lake | 19 | 5,684 | 0 | 0 | 0 | 0 | -576 | -10 |
| TOTAL | | 903,337 | 290,646 | 32 | -5,869 | -1 | -274,164 | -30 |
| | | NORTH CE | NTRAL | | | | | |
| Nocona, Lake (Farmers Crk) | 20 | 21,445 | 13,201 | 62 | 21 | 0 | -5,993 | -28 |
| Hubert H Moss Lake | 21 | 24,058 | 20,384 | 85 | -188 | -1 | -3,236 | -13 |
| Texoma, Lake (Texas) | 22 | 1,334,295 | 1,021,937 | 77 | 1,208 | 0 | -224,018 | -17 |
| Texoma, Lake (Texas & Oklahoma) | (22) | 2,668,590 | 2,043,874 | 77 | 2,416 | 0 | -448,037 | -17 |
| *Pat Mayse Lake | 23 | 117,844 | 97,122 | 82 | -2,882 | -2 | -8,428 | -7 |
| Kickapoo, Lake | 24 | 85,825 | 45,565 | 53 | 2,129 | 2 | -29,550 | -34 |
| Arrowhead, Lake | 25 | 235,997 | 130,049 | 55 | 4,269 | 2 | -72,620 | -31 |
| Bonham, Lake | 26 | 11,026 | 7,049 | 64 | -311 | -3 | -2,949 | -27 |
| Crook, Lake | 27 | 9,195 | 6,018 | 65 | -522 | -6 | -1,703 | -19 |
| Amon G Carter, Lake | 28 | 19,903 | 12,689 | 64 | 238 | 1 | -5,676 | -29 |
| Ray Roberts, Lake | 29 | 798,758 | 668,724 | 84 | -10,836 | -1 | -113,475 | -14 |
| Jim Chapman Lake (Cooper) | 30 | 260,332 | 85,259 | 33 | -16,050 | -6 | -84,864 | -33 |
| Graham, Lake | 31 | 45,260 | 35,760 | 79 | 5,544 | 12 | -8,060 | -18 |
| *Lost Creek Reservoir | 32 | 11,950 | 9,284 | 78 | 85 | 1 | -2,030 | -17 |
| Bridgeport, Lake | 33 | 366,236 | 237,104 | 65 | 13,959 | 4 | -110,798 | -30 |
| Lewisville Lake | 34 | 563,228 | 398,567 | 71 | -10,454 | -2 | -147,861 | -26 |
| Lavon Lake | 35 | 443,844 | 216,441 | 49 | -13,597 | -3 | -117,766 | -27 |
| Hubbard Creek Reservoir | 36 | 318,067 | 144,167 | 45 | 3,859 | 1 | -57,763 | -18 |
| Possum Kingdom Lake | 37 | 540,340 | 385,817 | 71 | 3,876 | 1 | -135,138 | -25 |
| *Mineral Wells, Lake | 38 | 7,065 | 5,148 | 73 | 612 | 9 | -1,588 | -22 |
| Weatherford, Lake | 39 | 17,789 | 10,835 | 61 | 219 | 1 | -4,740 | -27 |
| Eagle Mountain Lake | 40 | 179,880 | 131,253 | 73 | 610 | 0 | -38,874 | -22 |
| Worth, Lake | 41 | 24,500 | 14,583 | 60 | -1,161 | -5 | -3,885 | -16 |
| Grapevine Lake | 42 | 164,702 | 133,773 | 81 | -4,358 | -3 | -27,732 | -17 |
| Ray Hubbard, Lake | 43 | 452,040 | 334,977 | 74 | -1,985 | 0 | -51,916 | -11 |
| New Terrell City Lake | 44 | 8,583 | 5,429 | 63 | -192 | -2 | -1,606 | -19 |
| Daniel, Lake | 45 | 9,435 | 3,434 | 36 | 1,324 | 14 | -1,782 | -19 |
| Palo Pinto, Lake | 46 | 26,827 | 19,812 | 74 | 3,739 | 14 | -5,160 | -19 |
| Benbrook Lake | 47 | 85,648 | 39,599 | 46 | 5,143 | 6 | -35,844 | -42 |
| Arlington, Lake | 48 | 40,156 | 25,982 | 65 | 3,232 | 8 | -11,038 | -27 |
| | | | | | | | | |

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

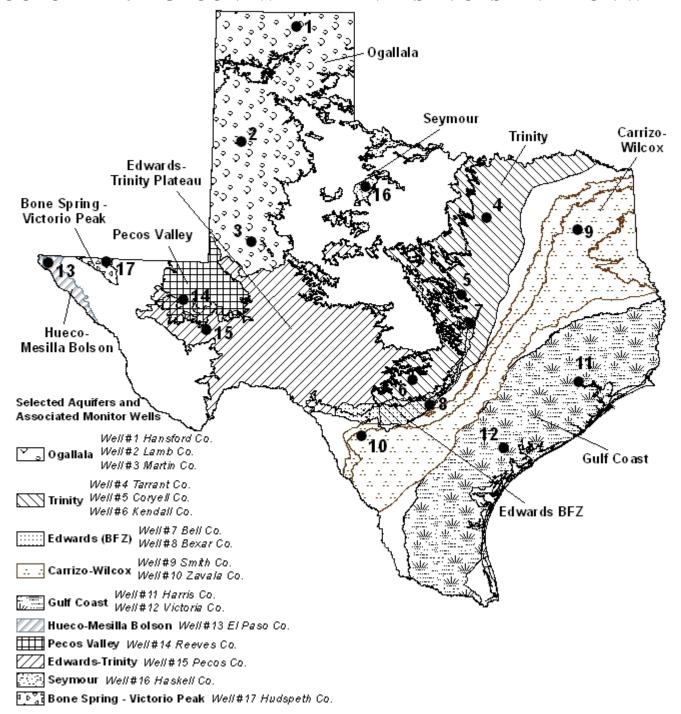
| | | | T | | | | I | |
|----------------------------------|------|-----------------------|----------------------|----------|--------------------|---------|------------------------|------------|
| Name of Lake | No. | Conservation | Conservati | | Change sin | | Change sin | |
| or Reservoir | on | Storage | Storage | | Late Sep. | • | Late Oct | • |
| | Map | Capacity | Late Oct. | 2011 | 2011 | | 2010 | |
| | | (acre-feet) | (acre-feet) | (%) | (acre-feet) | (%) | (acre-feet) | (%) |
| | | H CENTRAL (C | - | | | | | |
| Joe Pool Lake | 49 | 142,861 | 119,421 | 84 | 546 | 0 | -22,333 | -16 |
| *Cisco, Lake | 50 | 26,000 | 11,237 | 43 | 206 | 1 | -3,652 | -14 |
| Leon, Lake | 51 | 26,421 | 11,868 | 45 | 1,007 | 4 | -5,415 | -20 |
| Granbury, Lake | 52 | 128,046 | 99,567 | 78 | 18,026 | 14 | -24,854 | -19 |
| Pat Cleburne, Lake | 53 | 26,008 | 17,532 | 67 | 313 | 1 | -7,604 | -29 |
| Waxahachie, Lake | 54 | 10,779 | 7,126 | 66 | -606 | -6 | -2,033 | -19 |
| Bardwell Lake | 55 | 46,122 | 31,562 | 68 | -1,735 | -4 | -13,848 | -30 |
| Proctor Lake | 56 | 55,457 | 27,507 | 50 | 8,669 | 16 | -7,316 | -13 |
| Whitney, Lake | 57 | 553,349 | 280,147 | 51 | 671 | 0 | -172,459 | -31 |
| Aquilla Lake | 58 | 44,460 | 30,236 | 68 | 24 | 0 | -13,554 | -30 |
| Navarro Mills Lake | 59 | 49,826 | 31,411 | 63 | -1,913 | -4 | -15,953 | -32 |
| *Halbert, Lake | 60 | 6,033 | 2,667 | 44 | 86 | 1 | -1,103 | -18 |
| Richland-Chambers Reservoir | 61 | 1,087,839 | 770,766 | 71 | -31,072 | -3 | -253,023 | -23 |
| *Brownwood, Lake | 62 | 131,429 | 53,424 | 41 | 3,374 | 3 | -30,408 | -23 |
| Waco, Lake | 62 | 198,943 | 149,804 | 75 | 4,015 | 2 | -45,888 | -23 |
| Limestone, Lake | 64 | 208,015 | 107,852 | 52 | -8,158 | -4 | -66,985 | -32 |
| Belton Lake | 65 | 435,225 | 309,020 | 71 | -4,457 | -1 | -95,194 | -22 |
| Stillhouse Hollow Lake | 66 | 227,771 | 146,001 | 64 | 4,942 | 2 | -81,003 | -36 |
| Georgetown, Lake | 67 | 36,823 | 12,741 | 35 | -496 | -1 | -24,082 | -65 |
| Granger Lake | 68 | 50,779 | 32,220 | 63 | -1,734 | -3 | -10,669 | -21 |
| Tawakoni, Lake TOTAL | 69 | 888,126 10,604,540 | 646,304 7,158,375 | 73 68 | -21,373 -42,134 | -2 0 | -136,812 -2,350,281 | -15 -22 |
| | | EAST | | | | | | |
| Wright Patman Lake | 70 | 307,973 | 185,762 | 60 | -16,660 | -5 | 50,513 | 16 |
| *Sulphur Springs, Lake | 71 | 17,838 | 8,602 | 48 | -276 | -2 | -2,158 | -12 |
| Cypress Springs, Lake | 72 | 66,756 | 53,889 | 81 | -1,050 | -2 | -8,576 | -13 |
| Bob Sandlin, Lake | 73 | 200,579 | 129,382 | 65 | -2,987 | -1 | -42,725 | -21 |
| Fork Reservoir, Lake | 74 | 604,927 | 425,124 | 70 | -13,684 | -2 | -107,322 | -18 |
| O the Pines, Lake | 75 | 267,672 | 172,601 | 64 | -11,094 | -4 | -63,711 | -24 |
| Cedar Creek Reservoir in Trinity | 76 | 644,686 | 427,243 | 66 | -18,343 | -3 | -138,410 | -21 |
| Athens, Lake | 77 | 29,435 | 20,995 | 71 | -607 | -2 | -5,247 | -18 |
| Palestine, Lake | 78 | 370,907 | 245,465 | 66 | -9,092 | -2 | -78,550 | -21 |
| Tyler, Lake | 79 | 73,256 | 42,024 | 57 | -2,774 | -4 | -21,916 | -30 |
| Murvaul, Lake | 80 | 38,284 | 23,309 | 61 | -871 | -2 | -7,553 | -20 |
| Jacksonville, Lake | 81 | 25,670 | 19,940 | 78 | -324 | -1 | -2,903 | -11 |
| Nacogdoches, Lake | 82 | 39,521 | 18,554 | 47 | -1,180 | -3 | -11,339 | -29 |
| Houston County Lake | 83 | 17,113 | 12,273 | 72 | -552 | -3 | -2,736 | -16 |
| Sam Rayburn Reservoir | 84 | 2,857,077 | 1,583,197 | 55 | -66,740 | -2 | -408,054 | -14 |
| Toledo Bend Reservoir (Texas) | 85 | 2,236,450 | 1,310,318 | 59 | -52,272 | -2 | -283,323 | -13 |
| Toledo Bend Reservoir (TX & LA) | (85) | 4,472,900 | 2,620,637 | 59 | -104,544 | -2 | -566,645 | -13 |
| *Livingston, Lake | 86 | 1,741,867 | 1,438,000 | 83 | -25,000 | -1 | -303,867 | -17 |
| B A Steinhagen Lake | 87 | 66,966 | 54,788 | 82 | -4,114 | -6 | -6,533 | -10 |
| Conroe, Lake | 88 | 416,188 | 288,884 | 69 | -20,365 | -5 | -95,720 | -23 |
| TOTAL | | 10,023,165 | 6,460,350 | 64 | -247,985 | -2 | -1,540,130 | -15 |
| | | | | | | | | |
| | | TRANS-P | ECOS | | | | | |
| Red Bluff Reservoir TOTAL | 89 | TRANS-P 130,170 | ECOS 3,567 | 3 | -223 -223 | 0 | -48,501 | -37 |

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

| Name of Lake | No. | Conservation | Conservati | ion | Change sin | .ce | Change sin | ce |
|----------------------------------|-------|--------------|-----------------|------|-------------|-----|-------------|------------|
| or Reservoir | on | Storage | Storage | | Late Sep | • | Late Oct | • |
| | Map | Capacity | Late Oct. | 2011 | 2011 | | 2010 | |
| | | (acre-feet) | (acre-feet) | (%) | (acre-feet) | (%) | (acre-feet) | (%) |
| | | EDWARDS P | LATEAU | | | | | |
| Oak Creek Reservoir | 90 | 39,260 | 15,235 | 39 | -357 | -1 | -8,729 | -22 |
| E V Spence Reservoir | 91 | 517,272 | 2,323 | 0 | -39 | 0 | -17,515 | -3 |
| O C Fisher Lake | 92 | 79,483 | 0 | 0 | 0 | 0 | 0 | 0 |
| *O H Ivie Reservoir | 93 | 554,335 | 108,861 | 20 | -5,287 | -1 | -82,876 | -15 |
| Twin Buttes Reservoir | 94 | 177,850 | 0 | 0 | -975 | -1 | -21,123 | -12 |
| Brady Creek Reservoir | 95 | 29,110 | 7,314 | 25 | -311 | -1 | -6,596 | -23 |
| Buchanan, Lake | 96 | 875,610 | 341,330 | 39 | 9,217 | 1 | -332,240 | -38 |
| Lyndon B Johnson, Lake | 97 | 113,323 | 112,108 | 99 | -425 | 0 | 547 | 0 |
| *Amistad Reservoir (Texas) | 98 | 1,840,849 | 1,569,000 | 85 | -25,000 | -1 | -272,000 | -15 |
| *Amistad Reservoir (TX & Mexico) | (98) | 3,275,532 | 2,828,000 | 86 | -32,000 | -1 | -447,532 | -14 |
| TOTAL | | 4,227,092 | 2,156,171 | 51 | -23,177 | -1 | -740,532 | -18 |
| | | SOUTH CE | NTRAL | | | | | |
| Travis, Lake | 99 | 1,113,255 | 392,956 | 35 | -17,848 | -2 | -513,967 | -46 |
| *Austin, Lake | 100 | 21,804 | 20,805 | 95 | 256 | 1 | -257 | -1 |
| Somerville Lake | 101 | 147,104 | 57 , 276 | 39 | -3,321 | -2 | -73,987 | -50 |
| Canyon Lake | 102 | 378,781 | 305,120 | 81 | -7,248 | -2 | -71,370 | -19 |
| Medina Lake | 103 | 254,823 | 66,547 | 26 | -6,458 | -3 | -116,404 | -46 |
| *Coleto Creek Reservoir | 104 | 31,040 | 24,483 | 79 | 1,391 | 4 | -5,923 | -19 |
| TOTAL | | 1,946,807 | 867,187 | 45 | -33,228 | -2 | -781,908 | -40 |
| | | UPPER C | OAST | | | | | |
| Houston, Lake | 105 | 128,863 | 104,700 | 81 | 17,510 | 14 | -22,700 | -18 |
| Texana, Lake | 106 | 153,246 | 66,792 | 44 | -2,954 | -2 | -73,823 | -48 |
| TOTAL | | 282,109 | 171,492 | 61 | 14,556 | 5 | -96,523 | -34 |
| | | SOUTHE | PDM | | | | | |
| Choke Canyon Reservoir | 107 | 695,262 | 441,221 | 63 | -4,794 | -1 | -138,715 | -20 |
| Corpus Christi, Lake | 107 | 256,961 | 102,251 | 40 | -7,283 | -3 | -139,172 | -20 -54 |
| *Falcon Reservoir (Texas) | 109 | 1,551,034 | 740,000 | 48 | -50,000 | -3 | -873,000 | -56 |
| *Falcon Reservoir (TX & Mexico) | (109) | 2,646,817 | 1,173,000 | 44 | -53,000 | -2 | -1,473,817 | -56 |
| TOTAL | (105) | 2,503,257 | 1,283,472 | 51 | -62,077 | -2 | -1,150,887 | -46 |
| | | | | | | | | |
| STATE TOTAL | | 31,257,683 | 18,404,729 | 59 | -400,900 | -1 | -7,009,102 | -22 |

 $[\]star$ Conservation volume is used as conservation storage capacity because the dead storage is unknown.

OCTOBER 2011 GROUNDWATER LEVELS IN OBSERVATION WELLS



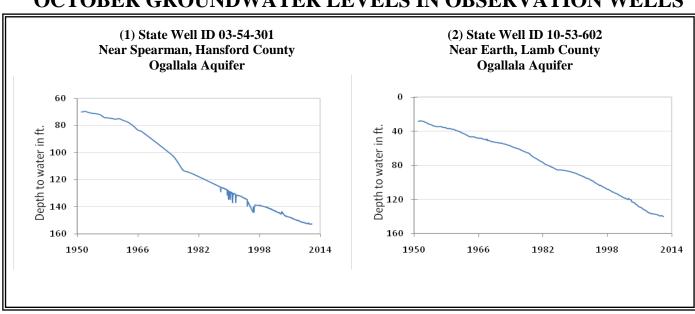
October, 2011

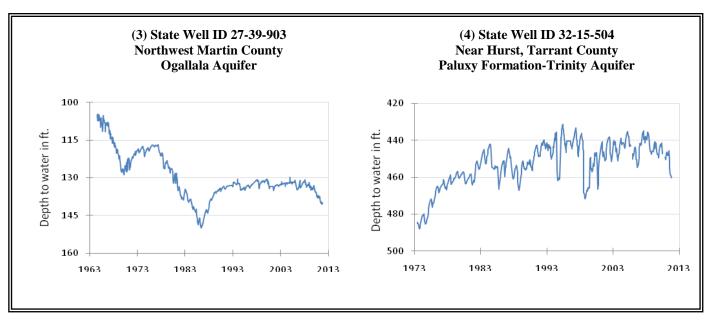
Water level measurements were available for sixteen of seventeen key monitoring wells in the state. Water levels rose in ten of the monitoring wells since the beginning of October, ranging from 0.05 feet in the El Paso County Hueco-Mesilla Bolson Aquifer well to 8.98 feet in the Pecos County Edwards-Trinity 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.

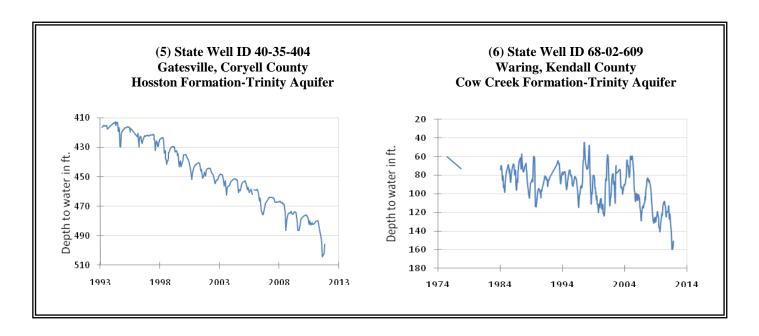
^{*} ID is used in this publication to differentiate between the monitoring well number (1 - 17) as displayed on the aquifer map and the TWDB's six- or seven-digit state well "identification" number.

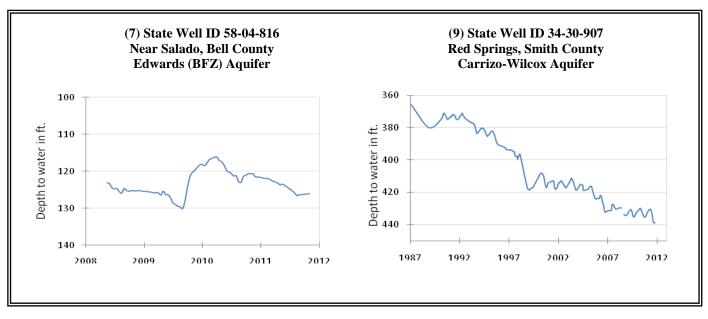
| Monitoring Well | Oct 2011 | Sep 2011 | Month Change | Year Change | Historical Change |
|-----------------------|----------|----------|--------------|-------------|-------------------|
| (1) Hansford 0354301 | 152.55 | 152.43 | -0.12 | -0.49 | -82.43 |
| (2) Lamb 1053602 | 139.85 | 139.56 | -0.29 | -1.02 | -111.7 |
| (3) Martin 2739903 | 139.9 | 140.53 | 0.63 | -1.84 | -35.01 |
| (4) Tarrant 3215504 | 460.26 | 458.85 | -1.41 | -11.03 | -82.26 |
| (5) Coryell 4035404 | 495.91 | 501.79 | 5.88 | -13.47 | -203.91 |
| (6) Kendall 6802609 | 151.02 | 158.64 | 7.62 | -31.06 | -91.02 |
| (7) Bell 5804816 | 126.12 | 126.4 | 0.28 | -5.43 | -2.99 |
| (8) Bexar 6837203 | 82.71 | 88.4 | 5.69 | -27.36 | -36.07 |
| (9) Smith 3430907 | 438.70 | 438.84 | -3.93 | -3.47 | -72.7 |
| (10)Zavala 7702509 | N/A | 364.7 | N/A | N/A | -0.43 |
| (11) Harris 6514409 | 209.75 | 207.93 | -1.82 | -11.08 | -74.25 |
| (12) Victoria 8017502 | 40.62 | 39.31 | -1.31 | -7.86 | -6.62 |
| (13) El Paso 4913301 | 290.57 | 290.62 | 0.05 | 0.68 | -58.67 |
| (14) Reeves 4644501 | 153.46 | 155.03 | 1.57 | -6.16 | -61.37 |
| (15) Pecos 5216802 | 230.56 | 239.54 | 8.98 | -25.68 | 16.32 |
| (16) Haskell 2135748 | 46.53 | 46.87 | 0.34 | -2.14 | -5.2 |
| (17) Hudspeth 4807516 | 144.9 | 150.1 | 5.2 | -4.28 | -40.98 |

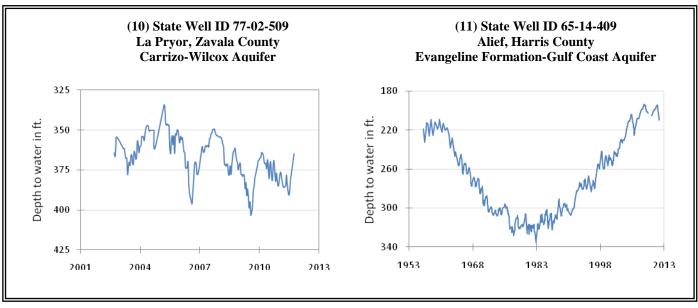
OCTOBER GROUNDWATER LEVELS IN OBSERVATION WELLS

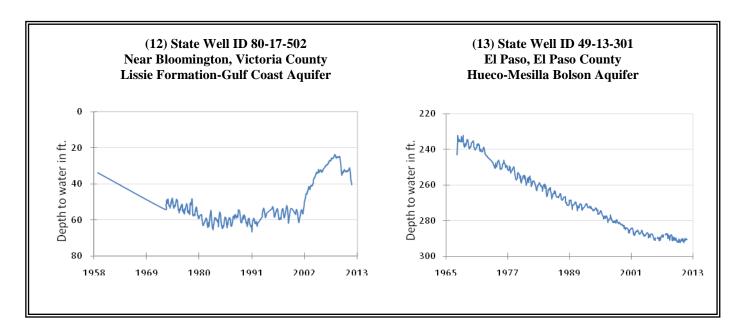


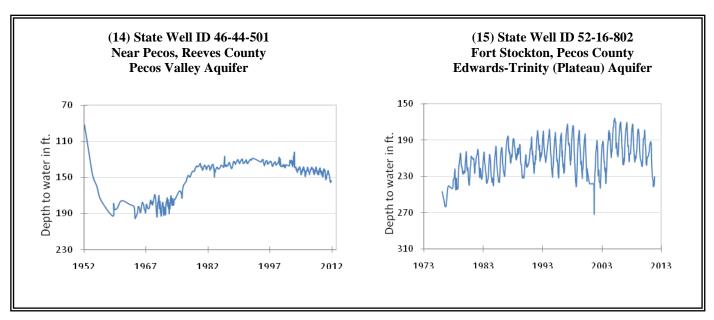


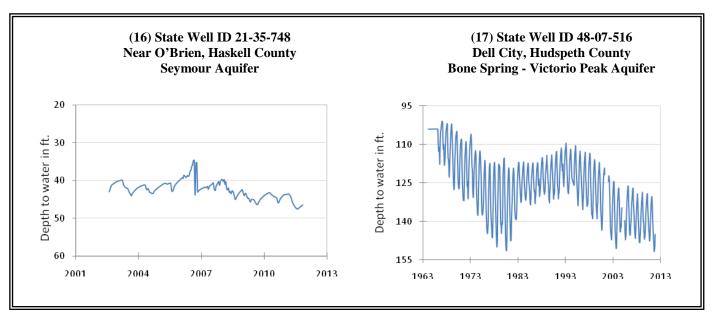


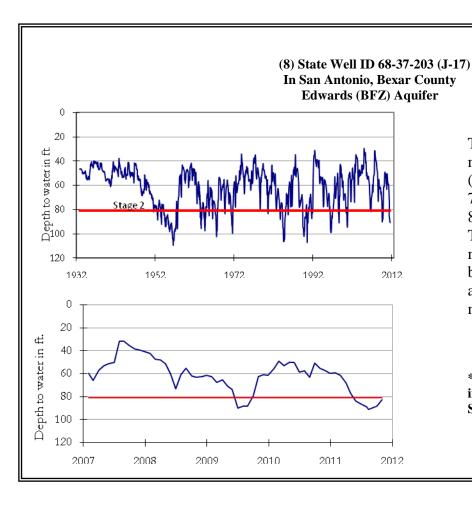












The late October water level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 82.71 feet below land surface. This was 5.69 feet above last month's measurement, 27.36 feet below last year's measurement, and 36.07 feet below the initial

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

measurement recorded in 1932.

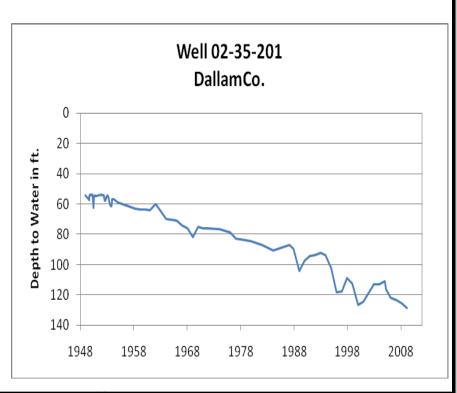
HYDROGRAPH OF THE MONTH



Each month this space features a new hydrograph (marked with the • symbol on the map) depicting different aquifers and different conditions in Texas.

Rita Blanca Aquifer

The Rita Blanca Aquifer, a minor aquifer, underlies the Ogallala Aquifer in the northwest corner of the Texas Panhandle. The aquifer is comprised of the Romeroville, the Mesa Rica, and the Lytle Sandstone formations of Cretaceous age, and equivalents of the Morrison Formation and the Exeter Sandstone of Jurassic age. These formations are mostly of fine- to medium-grained sandstone. with some shale. conglomerate, and limestone. The units of the Rita Blanca were deposited in the near shore, deltaic environment along the edge of the interior seaway during a time when global ocean levers were high and the seas covered large portions of the continent. In places, the Rita Blanca Aquifer is hydraulically connected to the Ogallala Aquifer and the underlying Dockum Aquifer. Water in the aquifer is usually fresh, containing less than 1,000 milligrams per liter of total dissolved solids, but very hard. The Rita Blanca aquifer has very limited extent in Texas although it stretches north to Colorado. Consequently, very little production is drawn from the Rita Blanca, and only one town, Texline, TX depends on it for water supply.



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