



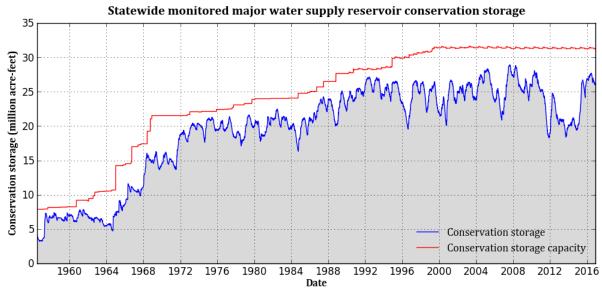
NOVEMBER 2016 RESERVOIR STORAGE*

At the end of the month, total conservation storage in 114 of the state's major water supply reservoirs was at 26.1 million acre-feet or 83 percent of total conservation storage capacity. This is approximately 0.05 million acre-feet more than a month ago but 0.33 million acre-feet less than the storage at this time last year.

Thirty (30) reservoirs held 100 percent of conservation storage capacity, primarily in the North Central (19 reservoirs) and East (5 reservoirs) regions. One reservoir, Palo Duro (2 percent), remained below 10 percent full.

Total combined storage was at or above normal (storage ≥ 70 percent) in the South Central (99 percent), Upper Coast (94 percent), North Central (96 percent), East (90 percent), and Low Rolling Plains (80 percent) regions. The region with the lowest percentage of storage was the High Plains (21 percent) region. Overall, storage increased in five regions but declined in four regions over the past month.

Elephant Butte reservoir held 159,945 acre-feet or 8 percent of storage capacity. This is 31,310 acre-feet more than a month ago.



^{*} Storage is based on end of the month data in 114 major reservoirs that represent 96 percent of the total conservation storage capacity of 188 major water supply reservoirs in Texas. Major reservoirs are defined as having a conservation storage capacity of 5,000 acre-feet or greater. Only the Texas share of storage in border reservoirs is counted.

| CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS | | | | | | | | |
|---|------------------|-----------------|---------------------|------------------|--------------|-----------------|-----|--|
| | | | onservation storage | | Change since | | ce | |
| Name of lake or reservoir | storage capacity | end of November | | end of October 2 | | end of November | | |
| | (acre-feet) | (acre-feet) (%) | | (acre-feet) | (%) | (acre-feet)** | (%) | |
| | | HIGH PLAIN | | | | | | |
| MacKenzie Reservoir | 46,450 | 6,981 | 15 | -45 | -0 | -599 | -1 | |
| Meredith, Lake (Texas) | 500,000 | 116,627 | 23 | -1,610 | -0 | -8,899 | -2 | |
| Meredith, Lake (Texas & | | | | | _ | | | |
| Oklahoma) | 779,556 | 116,627 | 15 | -1,610 | -0 | -8,899 | -1 | |
| Palo Duro Reservoir | 61,066 | 1,111 | 2 | -150 | -0 | no data | | |
| White River Lake | 29,880 | 7,467 | 25 | 0 | 0 | -2,468 | -8 | |
| TOTAL | 637,396 | 132,186 | 21 | -1,805 | -0 | -11,966 | -2 | |
| | | OW ROLLING P | | | | | | |
| Abilene, Lake | 7,900 | 7,745 | 98 | 59 | 1 | 6,951 | 88 | |
| Alan Henry Reservoir | 94,808 | 90,201 | 95 | 3,987 | 4 | -944 | -1 | |
| Champion Creek Reservoir | 41,580 | 15,590 | 37 | 3,816 | 9 | 6,224 | 15 | |
| Coleman, Lake | 38,075 | 35,997 | 95 | 355 | 1 | 7,967 | 21 | |
| Colorado City, Lake | 30,758 | 14,840 | 48 | 7,054 | 23 | 6,069 | 20 | |
| Fort Phantom Hill, Lake | 70,030 | 68,280 | 98 | 77 | 0 | 8,974 | 13 | |
| Greenbelt Lake | 59,968 | 16,080 | 27 | -153 | -0 | 2,614 | 4 | |
| Hords Creek Lake | 8,443 | 7,099 | 84 | 162 | 2 | 3,117 | 37 | |
| J. B. Thomas, Lake | 199,931 | 130,557 | 65 | 7,258 | 4 | -15,553 | -8 | |
| Kemp, Lake | 245,307 | 244,696 | 100 | 5,773 | 2 | 59,083 | 24 | |
| Millers Creek Reservoir | 26,768 | 26,768 | 100 | 0 | 0 | 1,198 | 4 | |
| North Fork Buffalo Creek | | | | | | | | |
| Reservoir | 15,400 | 12,707 | 83 | 30 | 0 | 181 | 1 | |
| Stamford, Lake | 51,570 | 50,458 | 98 | 1,044 | 2 | 5,137 | 10 | |
| Sweetwater, Lake | 12,267 | 2,602 | 21 | 66 | 1 | 1,167 | 10 | |
| TOTAL | 902,805 | 723,620 | 80 | 29,528 | 3 | 92,185 | 10 | |
| Among C Contour I also | 10.266 | NORTH CENTE | | 0 | 0 | 0 | 0 | |
| Amon G Carter, Lake | 19,266 | 19,266 | 100 | 0 | 0 | 0 | 0 | |
| Aquilla Lake | 43,243 | 42,262 | 98 | 789 | 2 | -981 | -2 | |
| Arlington, Lake | 40,188 | 28,757 | 72 | 2,481 | 6 | -11,431 | -28 | |
| Arrowhead, Lake | 230,359 | 220,898 | 96 | 1,696 | 1 | -9,461 | -4 | |
| Bardwell Lake | 46,122 | 45,030 | 98 | 929 | 2 | -1,092 | -2 | |
| Belton Lake | 435,225 | 435,225 | 100 | 364 | 0 | 0 | 0 | |
| Benbrook Lake | 85,648 | 71,480 | 83 | -1,149 | -1 | -14,168 | -17 | |
| Bonham, Lake | 11,027 | 8,326 | 76 | 18 | 0 | -2,701 | -24 | |
| Bridgeport, Lake | 366,236 | 366,236 | 100 | 0 | 0 | 0 | 0 | |
| *Brownwood, Lake | 128,839 | 128,839 | 100 | 9,925 | 8 | 0 | 0 | |
| *Cisco, Lake | 25,895 | 25,895 | 100 | 0 | 0 | 6,253 | 24 | |
| Crook, Lake | 9,195 | 7,798 | 85 | 0 | 0 | -1,397 | -15 | |
| Eagle Mountain Lake | 179,880 | 178,503 | 99 | -1,377 | -1 | -1,377 | -1 | |
| Georgetown, Lake | 36,823 | 33,979 | 92 | 979 | 3 | -2,844 | -8 | |
| Graham, Lake | 45,288 | 45,288 | 100 | 123 | 0 | 0 | 0 | |
| Granbury, Lake | 125,756 | 125,377 | 100 | -303 | -0 | 2,416 | 2 | |
| Granger Lake | 51,822 | 51,822 | 100 | 0 | 0 | 0 | 0 | |
| Grapevine Lake | 164,703 | 164,703 | 100 | 0 | 0 | 0 | 0 | |
| *Halbert, Lake | 6,033 | 4,729 | 78 | 21 | 0 | -1,154 | -19 | |
| Hubbard Creek Reservoir | 318,067 | 310,580 | 98 | 14,718 | 5 | 174,521 | 55 | |
| Hubert H Moss Lake | 24,058 | 22,382 | 93 | 415 | 2 | -1,676 | -7 | |
| Jim Chapman Lake (Cooper) | 260,332 | 202,198 | 78 07 | -8,785 | -3 | -58,134 | -22 | |
| Joe Pool Lake | 175,358 | 169,233 | 97 | 3,559 | 2 | -6,125 | -3 | |
| Kickapoo, Lake | 86,345 | 80,257 | 93 | 449 | 1 | -6,088 | -7 | |
| Lavon Lake | 406,388 | 342,644 | 84 | 8,471 | 2 | -63,744 | -16 | |
| Leon, Lake | 27,762 | 23,759 | 86 | 141 | 1 | -4,003 | -14 | |
| Lewisville Lake | 563,228 | 563,228 | 100 | 17,143 | 3 | 0 | 0 | |
| Limestone, Lake *Lost Creek Reservoir | 203,780 | 181,761 | 89 | -1,535 | -1 | -22,019 | -11 | |
| | 11,950 | 11,924 | 100 | 54 | 0 | -26 | -0 | |

| CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS | | | | | | | | |
|---|------------------|------------------|----------------------|------------------|-----|-------------------|------------|--|
| | Conservation | | Conservation storage | | ; | Change since | | |
| Name of lake or reservoir | storage capacity | end of November | | end of October 2 | | end of November | | |
| | (acre-feet) | (acre-feet) | (%) | (acre-feet) | (%) | (acre-feet)** | (%) | |
| 43.6. 1 YAY 11 Y 1 | | orth Central con | _ | 0 | 0 | 0 | 0 | |
| *Mineral Wells, Lake | 6,760 | 6,760 | 100 | 0 | 0 | 0 | 0 | |
| Mountain Creek, Lake | 22,850 | 22,850 | 100 | 0 | 0 | 0 | 0 | |
| Navarro Mills Lake | 49,827 | 48,842 | 98 | 418 | 1 | -985 | -2 | |
| New Terrell City Lake | 8,583 | 8,291 | 97 | 112 | 1 | -292 | -3 | |
| Nocona, Lake (Farmers Crk) | 21,444 | 20,449 | 95 | 717 | 3 | -995 | - 5 | |
| Palo Pinto, Lake | 26,766 | 26,094 | 97 | 1,076 | 4 | -672 | -3 | |
| Pat Cleburne, Lake | 26,008 | 21,994 | 85 | -269 | -1 | -4,014 -12,462 | -15 | |
| *Pat Mayse Lake | 113,683 | 101,221 | 89 | -1,434 | | | -11 | |
| Possum Kingdom Lake | 523,873 | 523,873 | 100 | 489 | 0 | 3,913 | 1 | |
| Proctor Lake | 54,762 | 51,531 | 94 | 2,449 4 | | -3,231 | -6 | |
| Ray Hubbard, Lake | 452,040 | 436,360 | 97 | 11,056 | 2 | -15,680 | -3 | |
| Ray Roberts, Lake | 788,167 | 788,167 | 100 | 16,340 | 2 | 0 | 0 | |
| Richland-Chambers Reservoir | 1,087,839 | 1,031,206 | 95 | -12,555 | -1 | -56,633 | -5 | |
| Squaw Creek, Lake | 151,250 | 151,250 | 100 | 0 | 0 | 0 | 0 | |
| Stillhouse Hollow Lake | 227,771 | 227,771 | 100 | 0 | 0 | 0 | 0 | |
| Tawakoni, Lake | 871,685 | 783,292 | 90 | -2,784 | -0 | -88,393 | -10 | |
| Texoma, Lake (Texas) | 1,258,113 | 1,258,113 | 100 | 0 | 0 | 0 | 0 | |
| Texoma, Lake (Texas & | 0 = 0 = 0 0.4 | 4.050.440 | =0 | | | | | |
| Oklahoma) | 2,525,281 | 1,258,113 | 50 | 0 | 0 | 0 | 0 | |
| Waco, Lake | 189,418 | 189,418 | 100 | 4,747 | 3 | 0 | 0 | |
| Waxahachie, Lake | 10,780 | 9,819 | 91 | -43 | -0 | -961 | -9 | |
| Weatherford, Lake | 17,812 | 17,006 | 95 | -11 | -0 | -806 | -5 | |
| Whitney, Lake | 553,344 | 506,531 | 92 | 7,565 | 1 | -46,813 | -8 | |
| Worth, Lake | 33,495 | 30,458 | 91 | -67 | -0 | -3,037 | -9 | |
| TOTAL | 10,625,086 | 10,173,675 | 96 | 76,932 | 1 | -256,292 | -2 | |
| | 00 500 | EAST | 0.6 | 266 | _ | 4.054 | | |
| Athens, Lake | 29,503 | 28,252 | 96 | 266 | 1 | -1,251 | -4 | |
| B A Steinhagen Lake | 66,961 | 61,882 | 92 | 912 | 1 | 5,270 | 8 | |
| Bob Sandlin, Lake | 190,822 | 174,870 | 92 | -1,321 | -1 | -15,952 | -8 | |
| Caddo, Lake | 29,898 | 29,898 | 100 | 0 | 0 | 180 | 1 | |
| Cedar Creek Reservoir in | (11.606 | F00.160 | 01 | 1 540 | 0 | E (E 1 7 | 0 | |
| Trinity | 644,686 | 588,169 | 91 | 1,543 | 0 | -56,517 | - 9 | |
| Conroe, Lake | 410,988 | 393,541 | 96 | -1,125 | -0 | -12,664 | -3 | |
| Cypress Springs, Lake | 66,756 | 62,176 | 93 | 313 | 0 | -4,580 | -7 | |
| Fork Reservoir, Lake | 605,061 | 534,594 | 88 | -8,290 | -1 | -70,467 | -12 | |
| Houston County Lake | 17,113 | 17,113 | 100 | 168 | 1 | 0 | 0 | |
| Jacksonville, Lake | 25,670 | 25,485 | 99 | 104 | 0 | 494 | 2 | |
| *Livingston, Lake | 1,785,348 | 1,785,348 | 100 | 1 000 | 0 | 11.004 | 0 | |
| Martin, Lake | 75,726 | 64,632 85 | | -1,000 | -1 | -11,094 | -15 | |
| Monticello, Lake | 34,740 | 34,740 100 | | 0 | 0 | 0 | 0 | |
| Murvaul, Lake | 38,285 | 34,021 | 89 | 33 | 0 | -4,264 | -11 | |
| Nacogdoches, Lake | 39,522 | 36,555 | 92 | -247 | -1 | -2,967 | -8 | |
| O' the Pines, Lake | 241,363 | 225,939 | 94 | -5,829 | -2 | -15,424 | -6 | |
| Palestine, Lake | 367,303 | 325,863 | 89 | -1,502 | -0 | -41,440 | -11 | |
| Sam Rayburn Reservoir | 2,857,077 | 2,472,710 | 87 | -55,276 | -2 | -248,275 | -9 | |
| *Sulphur Springs, Lake | 17,747 | 14,962 | 84 | -148 | -1 | -2,785 | -16 | |
| Toledo Bend Reservoir Texas) | 2,236,450 | 1,854,640 | 83 | -20,020 | -1 | -318,872 | -14 | |
| Toledo Bend Reservoir (Texas | 4 450 000 | 1.054.640 | 4.4 | 00.000 | ^ | 040.050 | _ | |
| & Louisiana) | 4,472,900 | 1,854,640 | 41 | -20,020 | -0 | -318,872 | -7 | |
| Tyler, Lake | 72,073 | 64,761 | 90 | -307 | -0 | -7,312 | -10 | |
| Wright Patman Lake | 122,593 | 122,593 | 100 | -12,476 | -10 | 0 | 0 | |
| TOTAL | 9,975,685 | 8,952,744 | 90 | -104,202 | -1 | -807,920 | -8 | |
| Dad Dlace Danas at | 454 440 | TRANS-PECO | | 07.400 | 10 | 26.020 | 2.4 | |
| Red Bluff Reservoir | 151,110 | 98,039 | 65 | -27,188 | -18 | -36,938 | -24 | |
| TOTAL | 151,110 | 98,039 | 65 | -27,188 | -18 | -36,938 | -24 | |

| CONSERVATIO | N STORAGE DA | TA FOR SELEC | CTED | MAJOR TEXAS | RESE | RVOIRS | | | |
|--|------------------|----------------------|------|---------------------------------------|------|---------------------------------------|------------------|--|--|
| | Conservation | Conservation storage | | Change since | | Change since | | | |
| Name of lake or reservoir | storage capacity | end of November 2016 | | end of October 2016 | | end of November 2015 | | | |
| | (acre-feet) | (acre-feet) | (%) | (acre-feet) | (%) | (acre-feet)** | (%) | | |
| | | EDWARDS PLAT | | | | | | | |
| *Amistad Reservoir (Texas) | 1,840,849 | 1,539,946 | 84 | 7,865 | 0 | 338,796 | 18 | | |
| *Amistad Reservoir (Texas & | 0.075.500 | 1 520 046 | 4.77 | 7.065 | 0 | 220.706 | 10 | | |
| Mexico) | 3,275,532 | 1,539,946 47 | | 7,865 | 0 | 338,796 | 10 | | |
| Brady Creek Reservoir | 28,808 | 17,547 61 | | 435 | 2 | 7,294 | 25 | | |
| Buchanan, Lake | 860,607 | 816,904 | 95 | 3,470 | 0 | 196,424 | 23 | | |
| E. V. Spence Reservoir | 517,272 | 70,041 | 14 | 17,558 | 3 | 22,473 | 4 | | |
| Inks, Lake | 13,962 | 12,877 | 92 | -105 | -1 | -15 | -0 | | |
| Lyndon B Johnson, Lake | 115,249 | 110,820 | 96 | 489 | 0 | 184 | 0 | | |
| Nasworthy | 9,615 | 7,987 | 83 | 266 | 3 | 363 | 4 | | |
| Oak Creek Reservoir | 39,210 | 20,711 | 53 | 1,109 | 3 | 10,268 | 26 | | |
| O. C. Fisher Lake | 119,445 | 17,753 | 15 | 0 | 0 | -3,080 | -3 | | |
| *O. H. Ivie Reservoir | 554,340 | 128,851 | 23 | 8,855 | 2 | 57,961 | 10 | | |
| Twin Buttes Reservoir | 182,454 | 19,279 | 11 | 1,536 | 1 | 10,589 | 6 | | |
| TOTAL | 4,281,811 | 2,762,716 | 65 | 41,478 | 1 | 641,257 | 15 | | |
| | | SOUTH CENTR | RAL | · · · · · · · · · · · · · · · · · · · | | · · · · · · · · · · · · · · · · · · · | | | |
| *Austin, Lake | 23,972 | 22,742 | 95 | -30 | -0 | -107 | -0 | | |
| Canyon Lake | 378,781 | 377,876 | 100 | 0 | 0 | -905 | -0 | | |
| *Coleto Creek Reservoir | 31,040 | 24,691 | 80 | -804 | -3 | -3,467 | -11 | | |
| Medina Lake | 254,823 | 234,112 | 92 | -4,369 | -2 | 73,807 | 29 | | |
| Somerville Lake | 147,104 | 147,104 | 100 | 0 | 0 | 0 | 0 | | |
| Travis, Lake | 1,113,348 | 1,113,348 | 100 | 19,085 | 2 | 138,756 | 12 | | |
| TOTAL | 1,949,068 | 1,919,873 | 99 | 13,882 | 1 | 208,084 | 11 | | |
| | 2,7 17,000 | UPPER COAS | | 10,002 | | | | | |
| Houston, Lake | 120,686 | 120,686 | 100 | 0 | 0 | 0 | 0 | | |
| Texana, Lake | 159,566 | 143,084 | 90 | -3,865 | -2 | -16,482 | -10 | | |
| TOTAL | 280,252 | 263,770 | 94 | -3,865 | -1 | -16,482 | -6 | | |
| SOUTHERN 200,232 203,770 94 -3,803 -1 -10,482 -0 | | | | | | | | | |
| Choke Canyon Reservoir | 662,820 | 269,852 | 41 | -5,655 | -1 | 47,588 | 7 | | |
| Corpus Christi, Lake | 256,961 | 237,822 | 93 | -1,967 | -1 | 20,284 | 8 | | |
| *Falcon Reservoir (Texas) | 1,551,007 | 566,964 | 37 | 24,404 | 2 | -205,486 | -13 | | |
| *Falcon Reservoir (Texas & | 1,331,007 | 300,704 | 37 | 27,707 | 2 | 200,400 | 13 | | |
| Mexico) | 2,646,817 | 566,964 | 21 | 24,404 | 1 | -205,486 | -8 | | |
| TOTAL | 2,470,788 | 1,074,638 | 43 | 16,782 | 1 | -137,614 | -6 | | |
| STATEWIDE TOTAL 2,470,788 1,074,638 43 16,782 1 -137,614 | | | | | | | | | |
| STATEWIDE TOTAL | 31,274,001 | 26,101,261 | 83 | 41,542 | 0 | -325,686 | _1 | | |
| | | | | | | | - <u>1</u> -4 | | |
| Elephant Butte Reservoir | 1,973,358 | 159,945 | 8 | 31,310 | 2 | -70,995 | -4 | | |

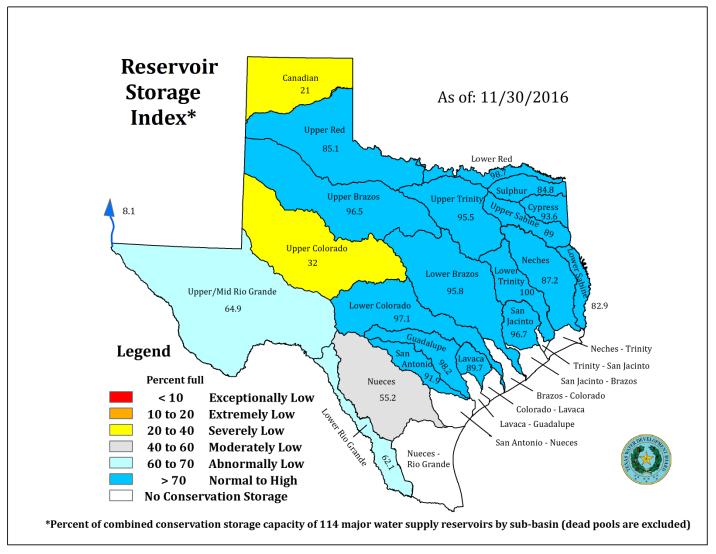
^{*} Conservation volume is used as conservation storage capacity because the dead storage is unknown.

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 pool 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. Values shown are for the Texas share of conservation storage in all reservoirs.

^{**}Monthly and yearly changes do not include reservoirs that did not have data in last monthly or last year, respectively.

NOVEMBER 2016 RESERVOIR CONDITIONS



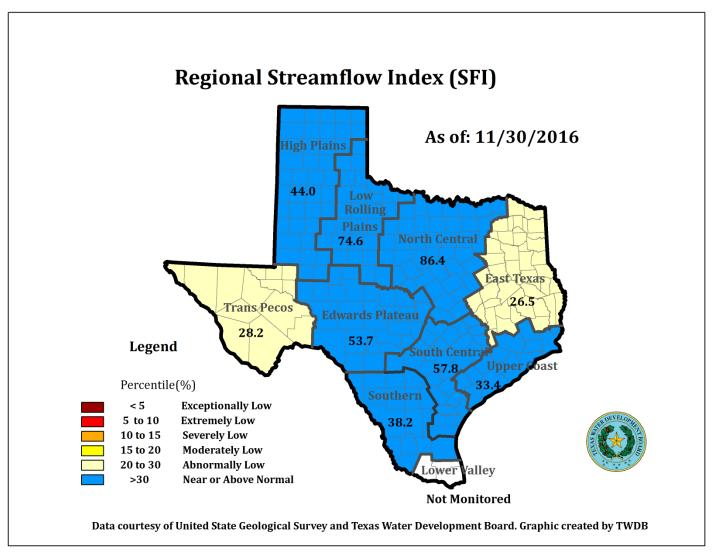
^{*}Reservoir Storage Index is defined as the percent full of conservation storage capacity.

NOVEMBER 2016 STREAMFLOW CONDITIONS

The computed 30-day mean flow status for 29 reporting index stations monitored this month is presented below. Mean flow increased at five index stations and decreased at 24 stations.

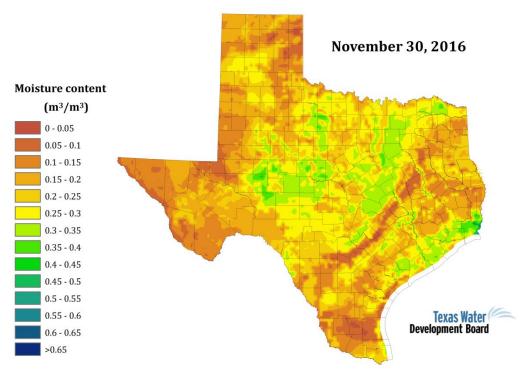
| Streamflow Status | Number of Stations | | |
|-----------------------------|--------------------|--|--|
| Near or Above Normal (>30%) | 18 | | |
| Abnormally Low (20-30%) | 7 | | |
| Moderately Low (15-20%) | 3 | | |
| Severely Low (10-15%) | 1 | | |
| Extremely Low (5-10%) | 0 | | |
| Exceptionally Low (<5%) | 0 | | |

On a regional basis, as shown below, flows at index stations were abnormally low in Trans-Pecos and East Texas regions but near or above normal in all other seven regions. Streamflow in the Lower Valley region is not monitored.



^{*}Streamflow Index is defined as the percentile flow that exceeds a given percent of observed flows.

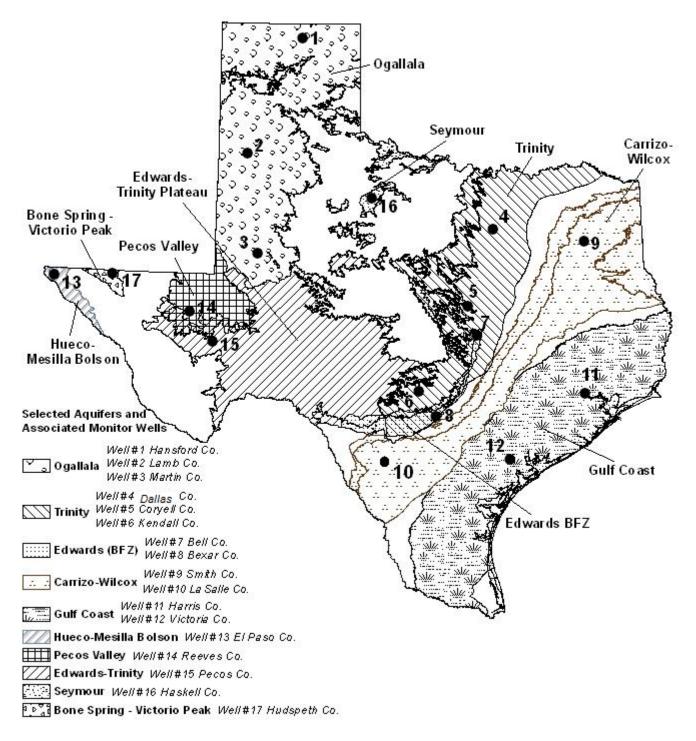
NOVEMBER 2016 SOIL MOISTURE CONDITIONS



Data from NASA Soil Moisture Active Passive (SMAP) Level 4 - Model - Value Added Version 2 Soil moisture content is shown as volume of water per unit volume of bulk soil. Root zone: 0 to 1 meter depth.

Soil moisture continued to increase in the past 30 day period. The soil moisture in the Central Texas and Upper Coast areas has increased to above 0.25 - 0.3, and soil moisture in South Texas, West Texas, the northern Panhandle, and along a belt extending from the southwest to the northeast also increased to above 0.1.

NOVEMBER 2016 GROUNDWATER LEVELS IN OBSERVATION WELLS

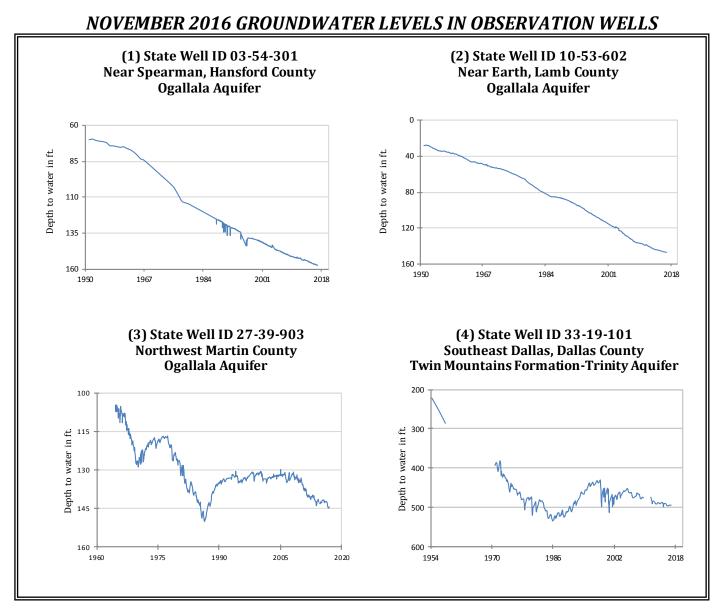


Water-level measurements were available for all 17 key monitoring wells in the state. Water levels rose in 13 monitoring wells since the beginning of November, ranging from an increase of 0.04 feet in the Victoria County Lissie Formation Gulf Coast Aquifer well (#12 on map) to 12.32 feet in the Pecos County Edwards-Trinity (Plateau) Aquifer well (#15). Water levels declined in four monitoring wells, ranging from a decline of 0.02 feet in the Lamb County Ogallala Aquifer well (#2) and Martin County Ogallala Aquifer well (#3) to 2.08 feet in the Harris County Evangeline Formation Gulf Coast Aquifer well (#11). The J-17 well (#8) in San Antonio recorded a water level of 50.81 feet below land surface or 680.19 feet above mean sea level. There are no restrictions currently in place for the San Antonio portion of the Edwards (Balcones Fault Zone) Aquifer, with water levels at 20 feet above the Stage I critical management level.

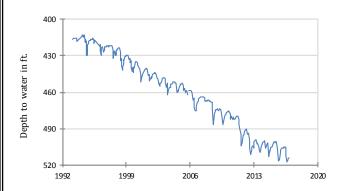
^{*}IDs used in this publication on the aquifer map to indicate the monitoring well location (IDs 1 - 17) are different than the TWDB's six- or seven-digit state well identification number.

| Monitoring Well | November | October | Month Change | Year Change | Historical Change | First Measured |
|-----------------------|----------|---------|-----------------|----------------|----------------------|-------------------|
| (1) Hansford 0354301 | 157.67 | 157.35 | -0.32 | -0.99 | -87.55 | 1951 |
| (2) Lamb 1053602 | 147.03 | 147.01 | -0.02 | -0.78 | -118.86 | 1951 |
| (3) Martin 2739903 | 144.33 | 144.82 | 0.49 | -2.01 | -39.44 | 1964 |
| (4) Dallas 3319101 | 494.28 | 494.78 | 0.50 | 0.95 | -272.28 | 1954 |
| (5) Coryell 4035404 | 515.83 | 515.86 | 1.03 | -4.38 | -221.83 | 1955 |
| (6) Kendall 6802609 | 122.05 | 126.60 | 4.55 | 7.80 | -62.05 | 1975 |
| (7) Bell 5804816 | 121.82 | 121.38 | -0.44 | -1.34 | 1.69 | 2008 |
| (8) Bexar 6837203 | 50.81 | 56.31 | 5.50 | 15.20 | -4.17 | 1932 |
| (9) Smith 3430907 | 434.18 | 435.28 | 1.10 | 2.56 | -134.18 | 1987 |
| (10) La Salle 7738103 | 453.31 | 457.73 | 4.42 | 14.34 | -200.24 | 2003 |
| (11) Harris 6514409 | 194.31 | 192.23 | -2.08 | -4.54 | -58.81* | 1947** |
| (12) Victoria 8017502 | 34.41 | 34.45 | 0.04 | 1.33 | -0.41 | 1958 |
| (13) El Paso 4913301 | 295.42 | 295.54 | 0.12 | 0.31 | -63.52 | 1964 |
| (14) Reeves 4644501 | 159.78 | 163.14 | 3.36 | -3.56 | -67.69 | 1952 |
| (15) Pecos 5216802 | 196.13 | 208.45 | 12.32 | 5.99 | 50.75 | 1976 |
| (16) Haskell 2135748 | 46.42 | 46.60 | 0.18 | 1.06 | -3.42 | 2002 |
| (17) Hudspeth 4807516 | 140.27 | 159.57 | 9.30 | 0.98 | -36.35 | 1966 |

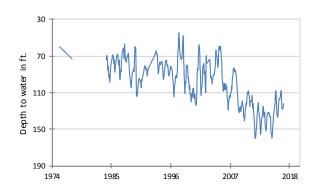
^{*}Change since the original measurement of 135.5 feet below land surface in 1947 (**measurement not shown on the hydrograph)



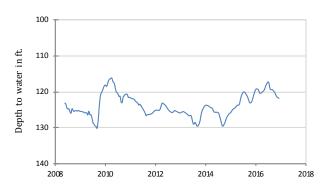
(5) State Well ID 40-35-404 Gatesville, Coryell County Hosston Formation-Trinity Aquifer



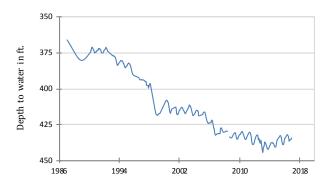
(6) State Well ID 68-02-609 Waring, Kendall County Cow Creek Formation-Trinity Aquifer



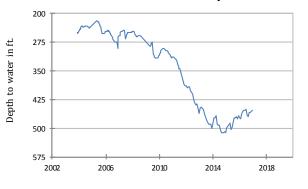
(7) State Well ID 58-04-816 Near Salado, Bell County Edwards (Balcones Fault Zone) Aquifer



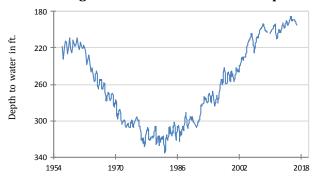
(9) State Well ID 34-30-907 Red Springs, Smith County Carrizo-Wilcox Aquifer



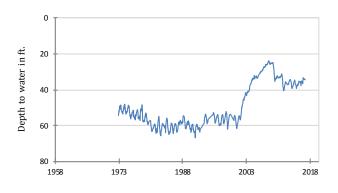
(10) State Well ID 77-38-103 Near Cotulla, La Salle County Carrizo-Wilcox Aquifer



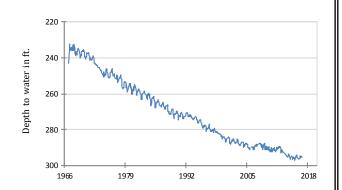
(11) State Well ID 65-14-409 Alief, Harris County Evangeline Formation-Gulf Coast Aquifer



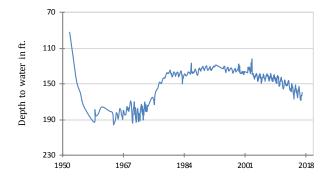
(12) State Well ID 80-17-502 Near Bloomington, Victoria County Lissie Formation-Gulf Coast Aquifer



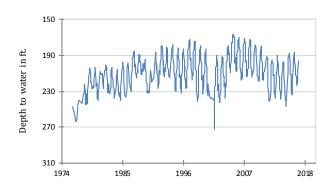
(13) State Well ID 49-13-301 El Paso, El Paso County Hueco-Mesilla Bolson Aquifer



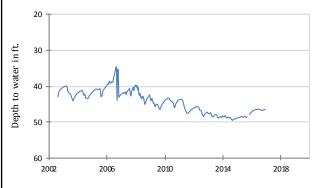
(14) State Well ID 46-44-501 Near Pecos, Reeves County Pecos Valley Aquifer



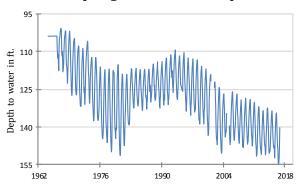
(15) State Well ID 52-16-802 Fort Stockton, Pecos County Edwards-Trinity (Plateau) Aquifer



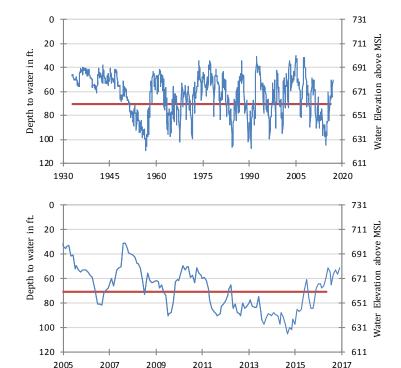
(16) State Well ID 21-35-748 Near O'Brien, Haskell County Seymour Aquifer



(17) State Well ID 48-07-516 Dell City, Hudspeth County Bone Spring - Victorio Peak Aquifer



(8) State Well ID 68-37-203 (J-17) In San Antonio, Bexar County Edwards (Balcones Fault Zone) Aquifer



The late November water-level measurement in this Edwards (Balcones Fault Zone) Aquifer well, elevation 731 feet above mean sea level, was 50.81 feet below land surface, or 680.19 feet above mean sea level. This was 5.50 feet above last month's measurement, 15.20 feet above last year's measurement, and 4.17 feet below the initial measurement recorded in 1932.

*** Water levels below the red line indicate periods in which Edwards Aquifer Authority Stage I drought restrictions are in effect. ***



The Lipan Aquifer is a minor aquifer found in

parts of Coke, Concho, Glasscock, Irion, Runnels, Schleicher, Sterling, and Tom Green

fresh to slightly saline, containing between

350 and 3,000 milligrams per liter of total

aquifer is primarily used for irrigation, but

dissolved solids, and is very hard. The

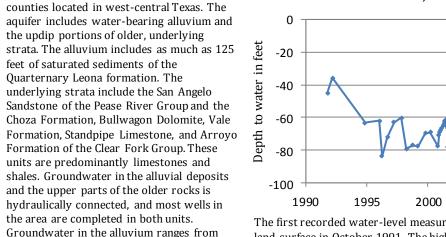
also supports livestock and municipal, domestic, and manufacturing uses.

HYDROGRAPH OF THE MONTH

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

Lipan Aquifer

Well # 4345306, 150 feet deep Recorder well, Central Tom Green County



The first recorded water-level measurement for this recorder well was 45 feet below land surface in October 1991. The highest recorded water-level measurement was 36 feet below land surface in March 1992, and the lowest recorded water-level measurement was 90.25 feet below land surface in August 2013. The seasonal water-level fluctuations for this well are most likely caused by the heavy pumping of the nearby irrigation wells during the spring thru fall months.

2005

2010

2015

2020