Texas Water Development Board





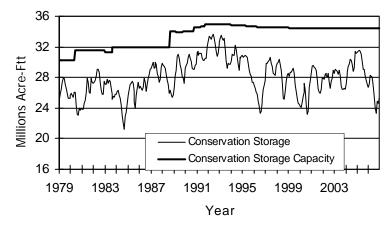
RESERVOIR STORAGE December 2006

Near the end of December, the 77 reservoirs monitored for this report held 25.28 million acre-feet in conservation storage, or 73 percent of the conservation storage capacity of the state's major reservoirs. Storage increased during the month by 0.7 million acre-feet (2% of conservation storage capacity). Compared to last year, storage decreased by 1.5 million acre-feet (-4%).

Storage was at 94% of capacity in the Upper Coast Region but below 90% in all other Regions, with the lowest in the High Plains Region (19%). Storage was at 100% in 6 reservoirs and Texas' share of Amistad is at 105%. During December, storage increased in 37 reservoirs, decreased in 35 reservoirs, and remained unchanged in 5 reservoirs. Regionally, storage increased in 5 regions and decreased in 4 regions. Compared to this time last year, storage decreased in all except the East Region where storage increased by 12%. The sharpest decrease was in the Edwards Plateau Region where storage decreased by 22%.

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Current data are based on elevation near end of month at 77 reservoirs that represent 98 percent of total conservation storage capacity in Texas reservoirs having a capacity of 5,000 acre-feet or more.

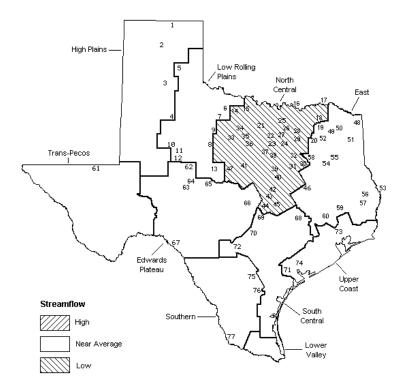


STREAMFLOW

Of 29 reporting index stations in December, computed 30-day mean flows were high (5% - 30%) at 2 stations, low (70% - 95%) at 12 stations, very low (>95%) at 1 station, and near normal (30% - 70% exceedance) at the remaining 14 stations. Compared to November, flows have increased at 18 index stations, decreased at 6 stations, and remained unchanged at 5 stations.

On a regional basis, flows in December were low in the North Central Region and normal in all other Regions. Streamflow in the Lower Valley Region is not monitored.

DECEMBER STREAMFLOW CONDITIONS



Reservoirs Shown on Map

| Palo Duro Reservoir | 40. | Waco Lake |
|--------------------------------|-----|-------------------------|
| Lake Meredith | | Proctor Lake |
| MacKenzie Reservoir | 42. | Belton Lake |
| White River Lake | 43. | Stillhouse Hollow Lake |
| Greenbelt Reservoir | 44. | Lake Georgetown |
| Lake Kemp | 45. | Granger Lake |
| Miller's Creek Reservoir | 46. | Lake Limestone |
| Fort Phantom Hill Reservoir | 47. | Lake Brownwood |
| Lake Stamford | 48. | Wright Patman Lake |
| . Lake J. B. Thomas | | Lake Cypress Springs |
| . Lake Colorado City | 50. | Lake Bob Sandlin |
| . Champion Creek Reservoir | 51. | Lake O' the Pines |
| . Hords Creek Lake | 52. | Lake Fork Reservoir |
| . Lake Kickapoo | 53. | Toledo Bend Reservoir |
| . Lake Arrowhead | | Lake Palestine |
| . Lake Texoma | 55. | Lake Tyler |
| . Pat Mayse Lake | 56. | Sam Rayburn Reservoir |
| . Cooper Lake | 57. | B. A. Steinhagen Lake |
| . Lake Sulphur Springs | 58. | Cedar Creek Reservoir |
| . Lake Tawakoni | 59. | Lake Livingston |
| . Bridgeport Reservoir | 60. | Lake Conroe |
| . Eagle Mountain Reservoir | 61. | Red Bluff Reservoir |
| . Benbrook Lake | | E. V. Spence Reservoir |
| . Joe Pool Lake | 63. | Twin Buttes Reservoir |
| . Ray Roberts Lake | 64. | O. C. Fisher Lake |
| . Lewisville Lake | 65. | O. H. Ivie Reservoir |
| . Grapevine Lake | | Lake Buchanan |
| . Lavon Lake | 67. | Intl. Amistad Reservoir |
| . Lake Ray Hubbard | 68. | Somerville Lake |
| . Richland-Chambers Creek Lake | 69. | Lake Travis |
| . Navarro Mills Lake | 70. | Canyon Lake |
| . Bardwell Lake | | Coleto Creek Reservoir |
| . Hubbard Creek Reservoir | 72. | Medina Lake |
| . Lake Graham | | Lake Houston |
| . Possum Kingdom Lake | 74. | Lake Texana |
| . Lake Palo Pinto | 75. | Choke Canyon Reservoir |
| . Lake Granbury | | Lake Corpus Christi |
| . Lake Pat Cleburne | 77. | Intl. Falcon Reservoir |
| | | |

38. Lake Pat Cleb 39. Whitney Lake

1. 2. 3. 4. 5. 6. 7. 8. 9.

 $\begin{array}{c} 11.\\ 12.\\ 13.\\ 14.\\ 15.\\ 16.\\ 17.\\ 18.\\ 20.\\ 21.\\ 22.\\ 23.\\ 24.\\ 25.\\ 26.\\ 27.\\ 28.\\ 29.\\ 30.\\ 31.\\ 32.\\ 33.\\ 35.\\ 36. \end{array}$

37.

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

| Name of Lake | No. | Conservation | Conservatio | on | Change since | | Change since | | |
|---------------------------------------|----------|-------------------|-------------------|----------|----------------|---------|-------------------|-----------|--|
| or Reservoir | on | Storage | Storage | | Late November | | Late December | | |
| | Map | Capacity | Late Dec. 2 | 006 | 2006 | - | 2005 | | |
| | - | (acre-feet) | (acre-feet) | (%) | (acre-feet) | (%) | (acre-feet) | (%) | |
| | | HIGH | PLAINS | | | | | . , | |
| Palo Duro Reservoir | 1 | 60,900 | 730 | 1 | -40 | 0 | -1,560 | -3 | |
| Lake Meredith (Texas) | 2 | 500,000 | 106,450 | 21 | 520 | 0 | -40,050 | -8 | |
| Lake Meredith | | | | | | | | | |
| (Texas and Oklahoma) | (2) | 779 , 560 | 106,450 | 14 | 520 | 0 | -40,050 | -5 | |
| MacKenzie Reservoir | 3 | 46,250 | 8,750 | 19 | 0 | 0 | -1,000 | -2 | |
| White River Lake | 4 | 31,850 | 4,390 | 14 | -50 | 0 | -1,740 | -5 | |
| TOTAL | | 639,000 | 120,320 | 19 | 430 | 0 | -44,350 | -7 | |
| | | LOW POL | LING PLAINS | | | | | | |
| Greenbelt Reservoir | 5 | 58,200 | 18,550 | 32 | 590 | 1 | -3,090 | -5 | |
| Lake Kemp | 6 | 319,600 | 219,550 | 69 | 3,600 | 1 | -59,170 | -19 | |
| Miller's Creek Reservoir | 7 | 27,890 | 20,700 | 74 | -200 | -1 | -5,760 | -21 | |
| Fort Phantom Hill Reservoir | 8 | 70,030 | 37,120 | 53 | -1,480 | -2 | -10,200 | -15 | |
| Lake Stamford | 9 | 52,700 | 33,040 | 63 | -840 | -2 | -17,050 | -32 | |
| Lake J. B. Thomas | 10 | 202,300 | 30,820 | 15 | -1,550 | -1 | -28,320 | -14 | |
| Lake Colorado City | 11 | 30,800 | 23,630 | 77 | -20 | 0 | -4,610 | -15 | |
| Champion Creek Reservoir | 12 | 41,600 | 5,150 | 12 | 0 | 0 | -660 | -2 | |
| Hords Creek Lake | 13 | 8,600 | 4,610 | 54 | -110 | -1 | -2,130 | -25 | |
| TOTAL | | 811,720 | 393,170 | 48 | -10 | 0 | -130,990 | -16 | |
| | | | | | | | | | |
| | | | CENTRAL | | | - | | | |
| Lake Kickapoo | 14 | 106,000 | 69,240 | 65 | -930 | -1 | -24,540 | -23 | |
| Lake Arrowhead | 15 | 262,100 | 169,020 | 64 | -7,530 | -3 | -57,350 | -22 | |
| Lake Texoma | 16 | 2,722,300 | 2,381,850 | 87 | 8,590 | 0 | -20,290 | -1 | |
| Pat Mayse Lake | 17 | 124,500 | 91,400 | 73 | 11,800 | 9 | -2,180 | -2 | |
| Cooper Lake | 18 | 273,000 | 96,500 | 35 | 12,050 | 4 | -45,070 | -17 | |
| Lake Sulphur Springs Lake Tawakoni | 19 20 | 17,710 936,200 | 16,430 509,600 | 93 54 | 2,490 6,500 | 14 1 | 4,820 -110,400 | 27 -12 | |
| Bridgeport Reservoir | 20 | 374,830 | 189,800 | 51 | -1,000 | 0 | -65,300 | -12 | |
| Eagle Mountain Reservoir | 21 | 178,380 | 113,400 | 64 | -100 | 0 | -23,800 | -13 | |
| Benbrook Lake | 23 | 88,200 | 65,960 | 75 | 7,860 | 9 | 21,670 | 25 | |
| Joe Pool Lake | 24 | 175,800 | 167,000 | 95 | 3,170 | 2 | 16,140 | 23 | |
| Ray Roberts Lake | 25 | 798,760 | 593,760 | 74 | 3,040 | 0 | -108,280 | -14 | |
| Lewisville Lake | 26 | 555,000 | 423,790 | 76 | 29,610 | 5 | -27,630 | -5 | |
| Grapevine Lake | 27 | 187,700 | 105,480 | 56 | 3,340 | 2 | -30,780 | -16 | |
| Lavon Lake | 28 | 443,800 | 185,040 | 42 | 7,010 | 2 | -91,820 | -21 | |
| Lake Ray Hubbard | 29 | 413,420 | 343,000 | 83 | 10,900 | 3 | 12,200 | 3 | |
| Richland-Chambers Creek Lake | 30 | 1,103,820 | 732,400 | 66 | 5,700 | 1 | -203,700 | -18 | |
| Navarro Mills Lake | 31 | 55,810 | 23,480 | 42 | -50 | 0 | -15,940 | -29 | |
| Bardwell Lake | 32 | 53,580 | 40,250 | 75 | 1,490 | 3 | 5,280 | 10 | |
| Hubbard Creek Reservoir | 33 | 317,800 | 152,830 | 48 | -1,370 | 0 | -31,870 | -10 | |
| Lake Graham | 34 | 45,000 | 34,220 | 76 | -450 | -1 | -8,620 | -19 | |
| Possum Kingdom Lake | 35 | 551,820 | 510,740 | 93 | 1,160 | 0 | 13,110 | 2 | |
| Lake Palo Pinto | 36 | 27,650 | 12,650 | 46 | -320 | -1 | -2,240 | -8 | |
| Lake Granbury | 37 | 135,680 | 127,270 | 94 | 3,120 | 2 | -5,370 | -4 | |
| Lake Pat Cleburne | 38 | 25,300 | 25,300 | 100 | 2,940 | 12 | 6,410 | 25 | |
| Whitney Lake | 39 | 622,800 | 442,640 | 71 | -1,660 | 0 | -66,410 | -11 | |
| Waco Lake | 40 | 144,500 | 116,110 | 80 | -1,880 | -1 | -28,390 | -20 | |
| Proctor Lake | 41 | 55,590 | 25,560 | 46 | -450 | -1 | -10,140 | -18 | |
| Belton Lake | 42 | 434,500 | 348,810 | 80 | -2,800 | -1 | -56,220 | -13 | |
| Stillhouse Hollow Lake | 43 | 226,060 | 205,550 | 91 | -590 | 0 | -15,890 | -7 | |
| Lake Georgetown | 44 | 37,010 | 16,090 | 43 | 270 | 1 | -7,530 | -20 | |
| Granger Lake | 45 | 54,280 | 52,000 | 96 | 3,950 | 7 | -2,280 | -4 | |
| Lake Limestone | 46 | 215,750 | 193,210 | 90 | 14,490 | 7 | 24,100 | 11 | |
| Lake Brownwood | 47 | 143,400 | 93,280 | 65 | -1,860 | -1 | -27,010 | -19 | |
| TOTAL | | 11,908,050 | 8,673,660 | 73 | 118,490 | 1 | -985,320 | -8 | |
| | | | | | | | | | |

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

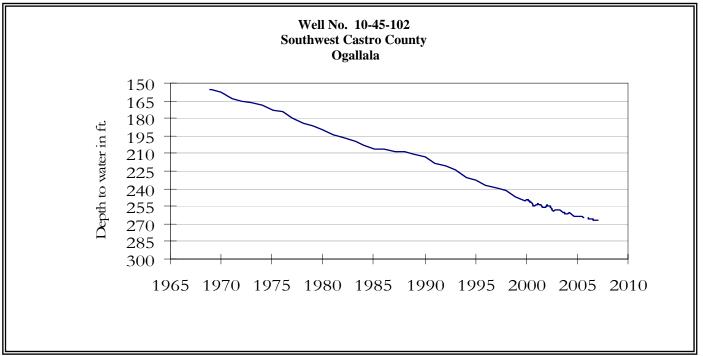
| Name of Lake | No. | Conservation | Conservati | on | Change since | | Change since | | |
|---------------------------|------------|--------------|-------------------|---------|---------------|----------|---------------|-----|--|
| or Reservoir | on | Storage | Storage | 011 | Late November | | Late December | | |
| | Мар | Capacity | Late Dec. 2 | 2006 | 2006 | <u> </u> | 2005 | | |
| | | (acre-feet) | (acre-feet) | (%) | (acre-feet) | (%) | | (%) | |
| | | | EAST | | | | | | |
| Wright Patman Lake | 48 | 142,700 | 142,700 | 100 | 0 | 0 | 0 | 0 | |
| Lake Cypress Springs | 49 | 66,800 | 53,320 | 80 | 1,140 | 2 | -3,980 | -6 | |
| Lake Bob Sandlin | 50 | 202,300 | 121,900 | 60 | -500 | 0 | -35,000 | -17 | |
| Lake O' the Pines | 51 | 252,000 | 165,650 | 66 | 1,540 | 1 | -11,430 | -5 | |
| Lake Fork Reservoir | 52 | | 557,900 | 88 | 15,600 | 2 | -9,300 | -1 | |
| Toledo Bend Reservoir | 53 | 4,472,900 | 3,710,000 | 83 | 335,000 | 7 | 690,000 | 15 | |
| Lake Palestine | 54 | | 317,300 | 77 | 15,690 | 4 | -18,650 | -5 | |
| Lake Tyler | 55 | 73,700 | 48,260 | 65 | 1,900 | 3 | -11,090 | -15 | |
| Sam Rayburn Reservoir | 56 | | 2,875,560 | 100 | 215,940 | 8 | 518,820 | 18 | |
| B. A. Steinhagen Lake | 57 | 94,200 | 3,880 | 4 | 3,420 | 4 | -48,800 | -52 | |
| Cedar Creek Reservoir | 58 | 637,050 | 452,000 | 71 | 14,300 | 2 | -54,400 | -9 | |
| Lake Livingston | 59 | 1,750,000 | 1,750,000 | 100 | 0 | 0 | 344,000 | 20 | |
| Lake Conroe | 60 | 429,900 | 424,300 | 99 | 10,200 | 2 | 85,400 | 20 | |
| TOTAL | | 12,044,350 | 10,622,770 | 88 | 614,230 | 5 | 1,445,570 | 12 | |
| | | TRAN | IS-PECOS | | | | | | |
| Red Bluff Reservoir | 61 | | 102,990 | 34 | 2,550 | 1 | -25,490 | -8 | |
| TOTAL | | 307,000 | 102,990 | 34 | 2,550 | 1 | -25,490 | -8 | |
| | | E DWA DI | OS PLATEAU | | | | | | |
| E. V. Spence Reservoir | 62 | | 69,110 | 14 | -610 | 0 | -25,600 | -5 | |
| Twin Buttes Reservoir | 63 | • | 35,060 | 20 | 480 | 0 | -13,670 | -8 | |
| 0.C. Fisher Lake | 64 | | 7,880 | 20 | -150 | 0 | -5,970 | -5 | |
| 0. H. Ivie Reservoir | 65 | 554,340 | 219,900 | , 40 | -4,200 | -1 | -69,500 | -13 | |
| Lake Buchanan | 66 | | 465,420 | 52 | -8,270 | -1 | -301,030 | -34 | |
| Amistad Reservoir (Texas) | 67 | 1,771,030 | 1,853,000 | 105 | -29,000 | -2 | -458,000 | -26 | |
| Amistad Reservoir | 07 | 1,,,11,000 | 2,000,000 | 200 | 23,000 | - | 150,000 | 20 | |
| (Texas and Mexico) | (67) | 3,151,300 | 2,565,000 | 81 | -23,000 | -1 | -198,000 | -6 | |
| TOTAL | | 4,008,110 | 2,650,370 | 66 | -41,750 | -1 | -873,770 | -22 | |
| | | SOUTH | I CENTRAL | | | | | | |
| Somerville Lake | 68 | 155,060 | 155,060 | 100 | 1,580 | 1 | 33,430 | 22 | |
| Lake Travis | 69 | 1,144,100 | 621,080 | 54 | -350 | 0 | -260,620 | -23 | |
| Canyon Lake | 70 | 385,600 | 322,140 | 84 | -370 | 0 | -38,630 | -10 | |
| Coleto Creek Reservoir | 71 | 35,060 | 23,590 | 67 | -260 | -1 | -2,110 | -6 | |
| Medina Lake | 72 | 254,000 | 94,360 | 37 | -3,860 | -2 | -102,740 | -40 | |
| TOTAL | | 1,973,820 | 1,216,230 | 62 | -3,260 | 0 | -370,670 | -19 | |
| | | ΙΙΡΡΕ | R COAST | | | | | | |
| Lake Houston | 73 | | 128,860 | 100 | 0 | 0 | 0 | 0 | |
| Lake Texana | 74 | | 139,350 | 88 | -7,360 | -5 | -4,080 | -3 | |
| TOTAL | , <u>-</u> | 286,760 | 268,210 | 94 | -7,360 | -3 | | -1 | |
| | | | | | | | | | |
| Choke Canyon Reservoir | 75 | | UTHERN 515,100 | 74 | -1,100 | 0 | -101,900 | -15 | |
| Lake Corpus Christi | 76 | | 96,350 | 40 | -460 | 0 | -46,150 | -19 | |
| Falcon Reservoir (Texas) | 77 | | 620,000 | 40 | 17,000 | 1 | -352,000 | -23 | |
| Falcon Reservoir | | | - | | | | - | | |
| (Texas and Mexico) | (77) | 2,653,290 | 1,058,000 | 40 | 14,000 | 1 | -563,000 | -21 | |
| TOTAL | | 2,491,620 | 1,231,450 | 49 | 15,440 | 1 | | -20 | |
| | | | | | | | | | |
| STATE TOTAL | | 34,470,430 | 25,279,170 | 73 | 698,760 | 2 | -1,489,150 | -4 | |
| | | | | | | | | | |

Note:

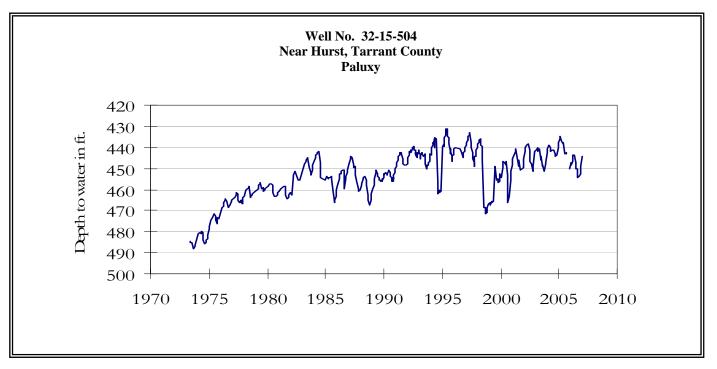
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included is any water in flood control storage (above the top of conservation pool or normal maximum operating level), or any water in so called dead storage (in the bottom of the reservoir, below the invert of lowest outlet works and consequently not removable by gravity flow alone.) Percentage of conservation storage is based on the conservation storage capacity of the reservoir and the conservation storage in the reservoir for date shown. Percent change is given by % Change = 100 * (current conservation storage - past conservation storage)/conservation storage capacity.

Current data are based on elevations near end of month at 77 reservoirs that together represent 98 percent of the total conservation storage capacity of major Texas reservoirs (those with capacity of 5,000 acre-feet or more each). Preliminary figures are shown for the Texas' share of conservation storage in all reservoirs.

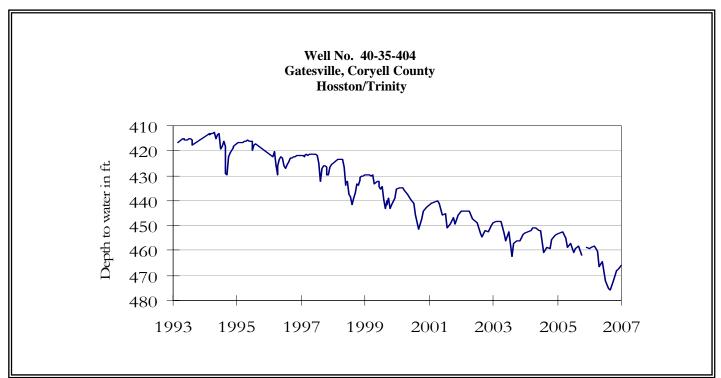
DECEMBER GROUND WATER LEVELS IN OBSERVATION WELLS



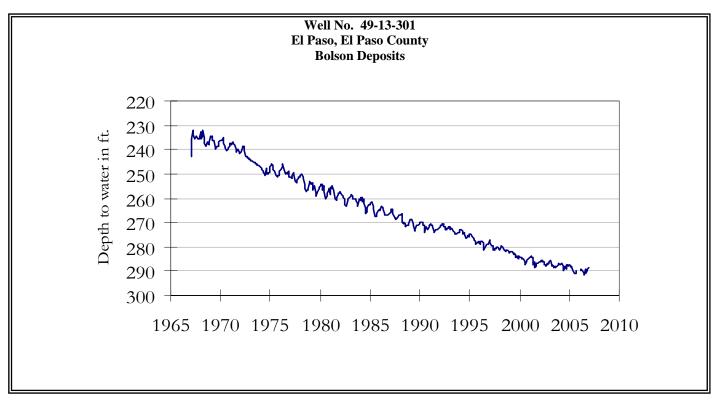
The late December water-level measurement in this Ogallala Aquifer well, elevation 3,816 feet above sea level, was 267.21 feet below land surface. This measurement was 0.07 feet below last month's measurement and 111.21 feet below the initial measurement recorded in 1968. No water level measurements were recorded for September through December 2005.



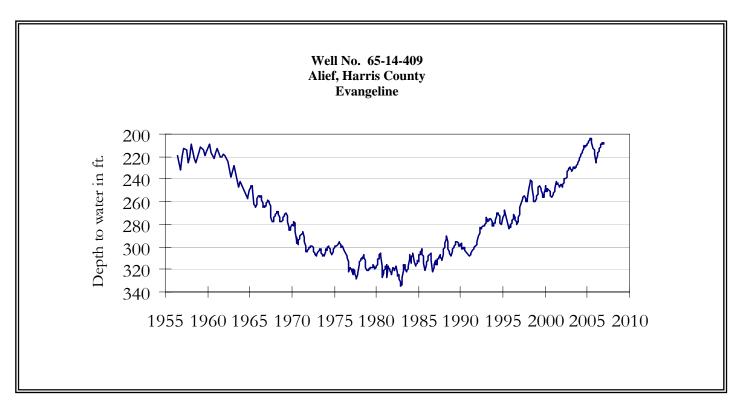
The late December water-level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 444.40 feet below land surface. This measurement was 4.66 feet above last month's measurement, 2.84 feet above last year's measurement, and 66.40 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September or October 2005.



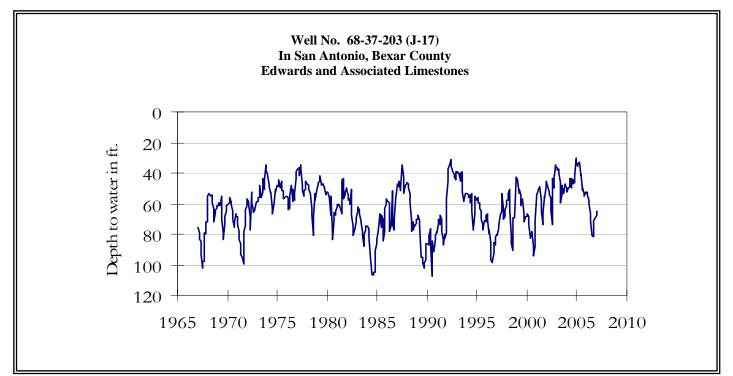
The late December water-level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 465.88 feet below land surface. This water level was 1.56 feet above last month's measurement, 6.87 feet below last year's measurement, and 173.88 feet below the initial measurement recorded in 1955. No water level measurement was recorded for October 2005.



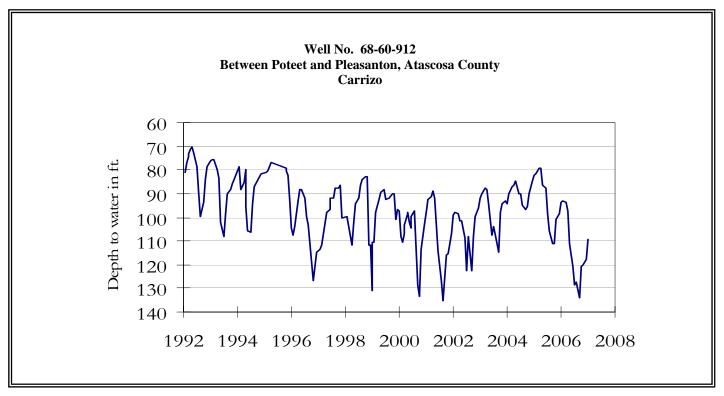
The late December water-level measurement in this Hueco Bolson Aquifer well, elevation 3,882 feet above sea level, was 288.70 feet below land surface. This was 0.04 feet above last month's measurement and 56.80 feet below the initial measurement in 1964. No water level measurements were recorded for October or December 2005.



The late December water-level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level, was 208.55 feet below land surface. This was 0.63 feet below last month's measurement, 17.01 feet above last year's measurement, and 73.05 feet below the initial measurement recorded in 1947.

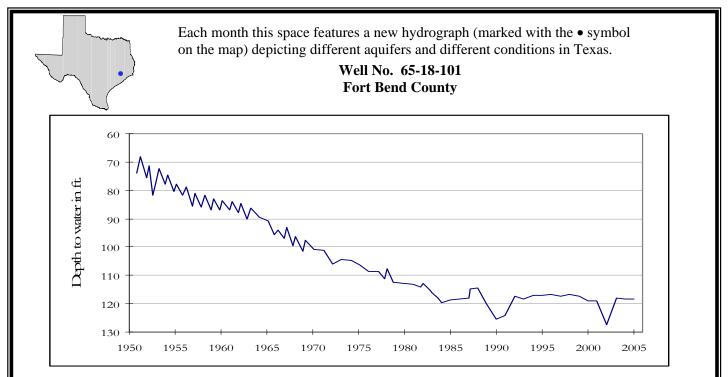


The late December water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 64.96 feet below land surface. This was 2.54 feet above last month's measurement, 12.38 feet below last year's measurement, and 18.32 feet below the initial measurement recorded in 1962.



The late December water-level measurement in this Carrizo Aquifer well, elevation 446 feet above sea level, was 109.48 feet below land surface. This measurement was 8.28 feet above last month's measurement, 15.60 feet below last year's measurement, and 74.12 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



This water level observation well, located 5 miles south of Katy, at an elevation of 142 feet ASL, was completed in the Gulf Coast Aquifer. Years of heavy pumpage for municipal and manufacturing use in portions of the aquifer have resulted in areas of significant water-level decline.

December, 2006

Water level measurements were available for all seven key monitoring wells. Water levels rose in five of the monitoring wells since the beginning of December, ranging from 0.04 feet in the El Paso Co. Hueco Bolson well to 8.28 feet in the Atascosa Co. Carrizo well. Water levels declined in the remaining monitoring wells, ranging from 0.07 feet in the Castro Co. Ogallala well to 0.63 feet in the Harris Co. Evangeline well. The J-17 well recorded a water level of 64.96 feet below land surface. This water level is 15.04 feet above the Stage 1 critical management level.

TEXAS WATER DEVELOPMENT BOARD 1700 N. CONGRESS AVE. P.O. BOX 13231 AUSTIN TX 78711-3231