

Texas Water Development Board



WATER Conditions

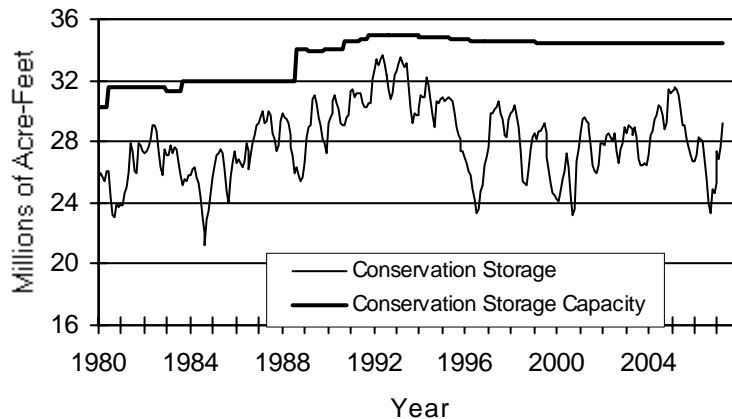
RESERVOIR STORAGE

April 2007

Strong precipitation in the past month has replenished many reservoirs in Texas, especially those in North Central Region. Near the end of April, the 77 reservoirs monitored for this report held 29.2 million acre-feet in conservation storage, or 85 percent of the conservation storage capacity of the state's major reservoirs. Statewide storage increased during the month by 1.5 million acre-feet (4% of conservation storage capacity), with 1.08 million acre-feet of that in the North Central Region. Compared to this time last year, storage increased by 1.0 million acre-feet (3%). Three regions, North Central (91%), East (97%), and Upper Coast (99%), had storage above 90% of capacity and two below 35% (Trans-Pecos 33%; High Plains 21%). Regionally, storage increased in 6 out of 9 Regions by 1% - 9%. Compared to this time last year, the storage increased in 4 Regions and decreased in 5 regions.

Storage was at 100% in 22 reservoirs. Thirteen reservoirs, most in North Central, benefited from a 10% or greater increase of their storage. Lake Palo Pinto led the field with a 47% increase.

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.

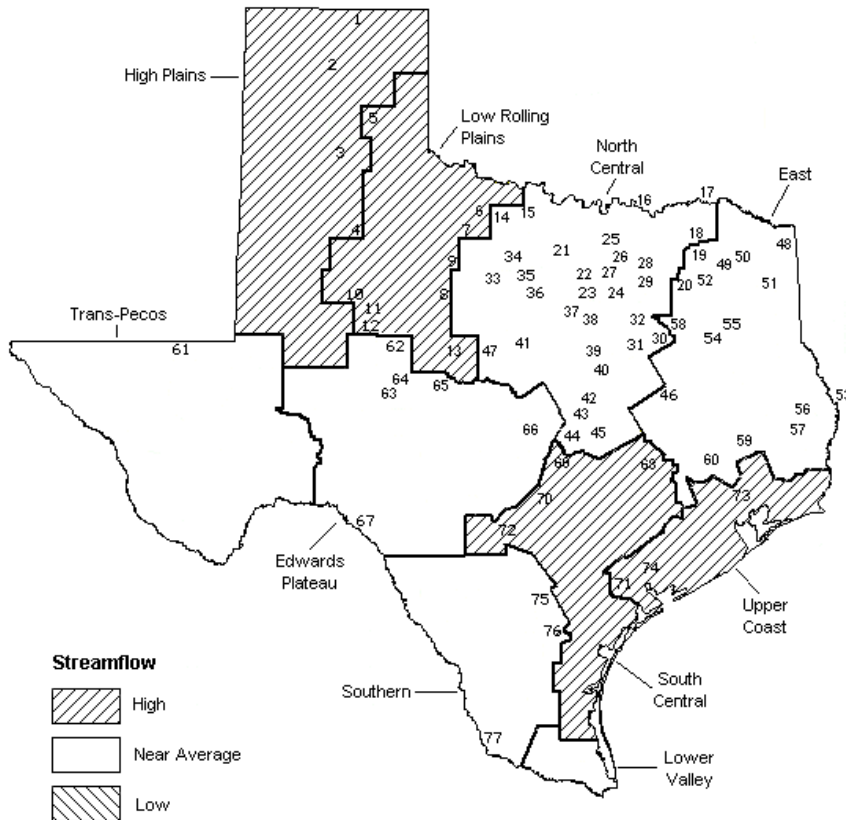
STREAMFLOW

Of 29 reporting index stations in April, computed 30-day mean flows were high (5% - 30%) at 16 stations, low (70% - 95%) at 2 stations, and near normal (30% - 70%) at the remaining 11 stations. Compared to March, flows have increased at 11 index stations and decreased at 18 stations.

On a regional basis, flows in April were high in the Upper Coast, South Central, High Plains and Low Rolling Plains Regions but normal in all other Regions. Streamflow in the Lower Valley Region is not monitored.

APRIL STREAMFLOW CONDITIONS

Reservoirs Shown on Map



- | | |
|----------------------------------|-----------------------------|
| 1. Palo Duro Reservoir | 40. Waco Lake |
| 2. Lake Meredith | 41. Proctor Lake |
| 3. MacKenzie Reservoir | 42. Belton Lake |
| 4. White River Lake | 43. Stillhouse Hollow Lake |
| 5. Greenbelt Reservoir | 44. Lake Georgetown |
| 6. Lake Kemp | 45. Granger Lake |
| 7. Miller's Creek Reservoir | 46. Lake Limestone |
| 8. Fort Phantom Hill Reservoir | 47. Lake Brownwood |
| 9. Lake Stamford | 48. Wright Patman Lake |
| 10. Lake J. B. Thomas | 49. Lake Cypress Springs |
| 11. Lake Colorado City | 50. Lake Bob Sandlin |
| 12. Champion Creek Reservoir | 51. Lake O' the Pines |
| 13. Hords Creek Lake | 52. Lake Fork Reservoir |
| 14. Lake Kickapoo | 53. Toledo Bend Reservoir |
| 15. Lake Arrowhead | 54. Lake Palestine |
| 16. Lake Texoma | 55. Lake Tyler |
| 17. Pat Mayse Lake | 56. Sam Rayburn Reservoir |
| 18. Cooper Lake | 57. B. A. Steinhagen Lake |
| 19. Lake Sulphur Springs | 58. Cedar Creek Reservoir |
| 20. Lake Tawakoni | 59. Lake Livingston |
| 21. Bridgeport Reservoir | 60. Lake Conroe |
| 22. Eagle Mountain Reservoir | 61. Red Bluff Reservoir |
| 23. Benbrook Lake | 62. E. V. Spence Reservoir |
| 24. Joe Pool Lake | 63. Twin Buttes Reservoir |
| 25. Ray Roberts Lake | 64. O. C. Fisher Lake |
| 26. Lewisville Lake | 65. O. H. Ivie Reservoir |
| 27. Grapevine Lake | 66. Lake Buchanan |
| 28. Lavon Lake | 67. Intl. Amistad Reservoir |
| 29. Lake Ray Hubbard | 68. Somerville Lake |
| 30. Richland-Chambers Creek Lake | 69. Lake Travis |
| 31. Navarro Mills Lake | 70. Canyon Lake |
| 32. Bardwell Lake | 71. Coletto Creek Reservoir |
| 33. Hubbard Creek Reservoir | 72. Medina Lake |
| 34. Lake Graham | 73. Lake Houston |
| 35. Possum Kingdom Lake | 74. Lake Texana |
| 36. Lake Palo Pinto | 75. Choke Canyon Reservoir |
| 37. Lake Granbury | 76. Lake Corpus Christi |
| 38. Lake Pat Cleburne | 77. Intl. Falcon Reservoir |
| 39. Whitney Lake | |

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation	Conservation	Change since		Change since		
		Storage Capacity (acre-feet)	Storage Late Apr. 2007 (acre-feet) (%)	Late March 2007 (acre-feet) (%)	Late April 2006 (acre-feet) (%)			
HIGH PLAINS								
Palo Duro Reservoir	1	60,900	1,330	2	-40	0	-80	0
Lake Meredith (Texas)	2	500,000	116,540	23	4,120	1	-12,730	-3
Lake Meredith (Texas and Oklahoma)	(2)	779,560	116,540	15	4,120	1	-12,730	-2
MacKenzie Reservoir	3	46,250	9,190	20	50	0	-60	0
White River Lake	4	31,850	4,770	15	20	0	-170	-1
TOTAL		639,000	131,830	21	4,150	1	-13,040	-2
LOW ROLLING PLAINS								
Greenbelt Reservoir	5	58,200	22,300	38	240	0	1,380	2
Lake Kemp	6	319,600	235,120	74	3,920	1	-20,260	-6
Miller's Creek Reservoir	7	27,890	20,060	72	-300	-1	-4,230	-15
Fort Phantom Hill Reservoir	8	70,030	40,090	57	3,910	6	-5,390	-8
Lake Stamford	9	52,700	38,070	72	5,210	10	-6,580	-12
Lake J. B. Thomas	10	202,300	25,460	13	-1,300	-1	-24,720	-12
Lake Colorado City	11	30,800	23,820	77	-140	0	-3,230	-10
Champion Creek Reservoir	12	41,600	5,900	14	470	1	-40	0
Hords Creek Lake	13	8,600	4,880	57	420	5	-1,330	-15
TOTAL		811,720	415,700	51	12,430	2	-64,400	-8
NORTH CENTRAL								
Lake Kickapoo	14	106,000	66,690	63	0	0	-20,070	-19
Lake Arrowhead	15	262,100	183,380	70	6,830	3	-32,500	-12
Lake Texoma	16	2,722,300	2,704,260	99	256,070	9	190,330	7
Pat Mayse Lake	17	124,500	120,350	97	8,760	7	21,810	18
Cooper Lake	18	273,000	158,520	58	9,170	3	-21,910	-8
Lake Sulphur Springs	19	17,710	17,710	100	0	0	0	0
Lake Tawakoni	20	936,200	661,700	71	47,100	5	-33,900	-4
Bridgeport Reservoir	21	374,830	278,900	74	80,900	22	36,700	10
Eagle Mountain Reservoir	22	178,380	168,400	94	54,200	30	22,400	13
Benbrook Lake	23	88,200	88,200	100	4,290	5	14,030	16
Joe Pool Lake	24	175,800	175,800	100	0	0	0	0
Ray Roberts Lake	25	798,760	656,720	82	49,470	6	-61,480	-8
Lewisville Lake	26	555,000	555,000	100	67,880	12	87,460	16
Grapevine Lake	27	187,700	187,700	100	75,560	40	44,610	24
Lavon Lake	28	443,800	385,250	87	65,140	15	84,660	19
Lake Ray Hubbard	29	413,420	404,600	98	30,300	7	-6,500	-2
Richland-Chambers Creek Lake	30	1,103,820	1,103,820	100	113,520	10	164,220	15
Navarro Mills Lake	31	55,810	55,810	100	0	0	18,300	33
Bardwell Lake	32	53,580	47,270	88	-6,310	-12	0	0
Hubbard Creek Reservoir	33	317,800	163,940	52	15,980	5	-15,670	-5
Lake Graham	34	45,000	38,120	85	4,800	11	-3,180	-7
Possum Kingdom Lake	35	551,820	512,730	93	-4,480	-1	26,390	5
Lake Palo Pinto	36	27,650	26,590	96	13,060	47	11,660	42
Lake Granbury	37	135,680	133,060	98	1,060	1	230	0
Lake Pat Cleburne	38	25,300	25,300	100	0	0	120	0
Whitney Lake	39	622,800	622,800	100	126,850	20	87,530	14
Waco Lake	40	144,500	144,500	100	0	0	0	0
Proctor Lake	41	55,590	41,720	75	15,990	29	5,920	11
Belton Lake	42	434,500	434,500	100	15,530	4	31,820	7
Stillhouse Hollow Lake	43	226,060	226,060	100	0	0	0	0
Lake Georgetown	44	37,010	37,010	100	150	0	14,140	38
Granger Lake	45	54,280	54,280	100	0	0	0	0
Lake Limestone	46	215,750	214,030	99	-1,720	-1	530	0
Lake Brownwood	47	143,400	121,410	85	27,740	19	4,710	3
TOTAL		11,908,050	10,816,130	91	1,077,840	9	672,360	6

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

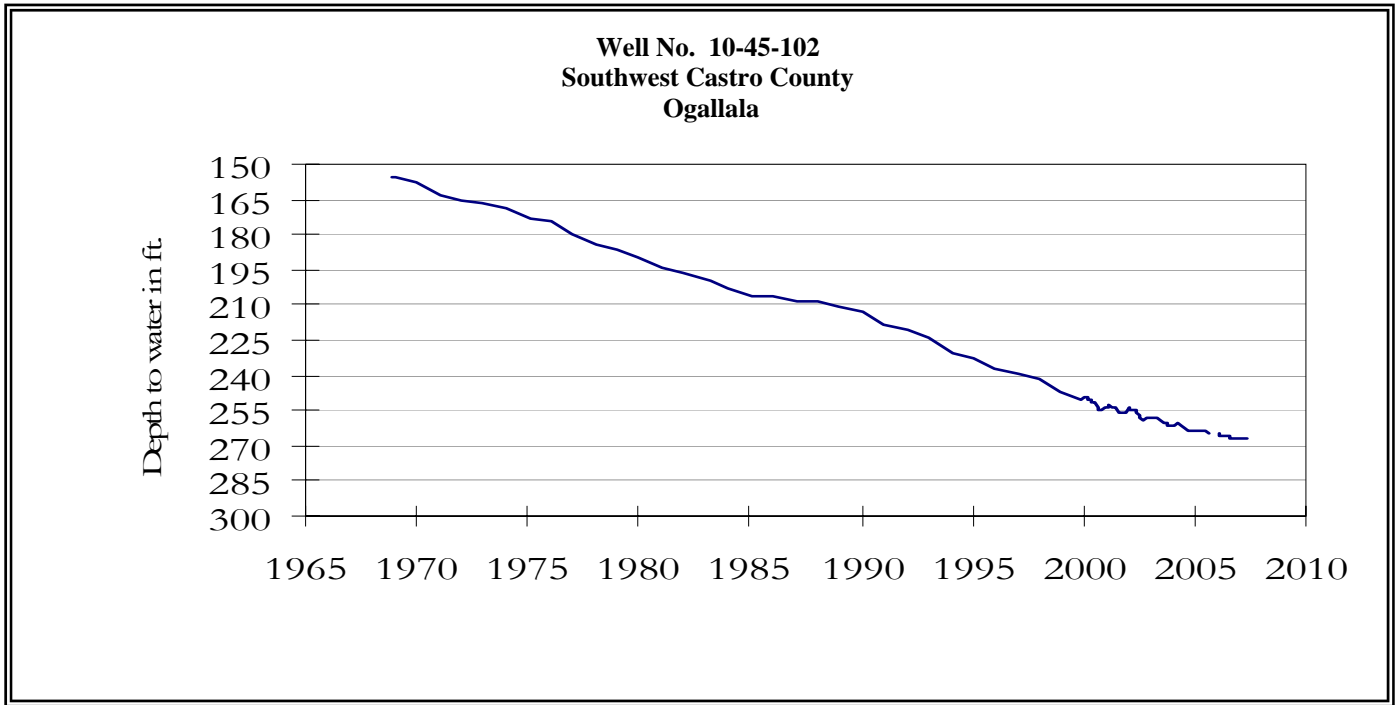
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late Apr. 2007 (acre-feet)	Conservation Storage Late Apr. 2007 (%)	Change since Late March 2007 (acre-feet)	Change since Late March 2007 (%)	Change since Late April 2006 (acre-feet)	Change since Late April 2006 (%)
EAST								
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0
Lake Cypress Springs	49	66,800	60,870	91	700	1	-1,210	-2
Lake Bob Sandlin	50	202,300	140,000	69	-2,300	-1	-23,000	-11
Lake O' the Pines	51	252,000	243,760	97	-170	0	28,950	11
Lake Fork Reservoir	52	635,200	635,200	100	14,400	2	22,700	4
Toledo Bend Reservoir	53	4,472,900	4,311,000	96	157,000	4	434,000	10
Lake Palestine	54	411,300	411,300	100	0	0	41,950	10
Lake Tyler	55	73,700	69,070	94	3,730	5	5,560	8
Sam Rayburn Reservoir	56	2,876,300	2,857,190	99	-19,110	-1	94,270	3
B. A. Steinhagen Lake	57	94,200	90	0	-130	0	-74,690	-79
Cedar Creek Reservoir	58	637,050	635,000	100	16,400	3	52,600	8
Lake Livingston	59	1,750,000	1,750,000	100	0	0	279,000	16
Lake Conroe	60	429,900	417,600	97	-5,900	-1	65,500	15
TOTAL		12,044,350	11,673,780	97	164,620	1	925,630	8
TRANS-PECOS								
Red Bluff Reservoir	61	307,000	100,740	33	-7,520	-2	-21,840	-7
TOTAL		307,000	100,740	33	-7,520	-2	-21,840	-7
EDWARDS PLATEAU								
E. V. Spence Reservoir	62	488,760	70,040	14	1,090	0	-17,350	-4
Twin Buttes Reservoir	63	177,800	42,490	24	2,380	1	-12,100	-7
O.C. Fisher Lake	64	119,200	7,690	6	-210	0	-4,800	-4
O. H. Ivie Reservoir	65	554,340	221,300	40	2,900	1	-60,900	-11
Lake Buchanan	66	896,980	546,420	61	59,330	7	-166,090	-19
Amistad Reservoir (Texas)	67	1,771,030	1,927,000	109	74,000	4	-187,000	-11
Amistad Reservoir (Texas and Mexico)	(67)	3,151,300	2,702,000	86	105,000	3	102,000	3
TOTAL		4,008,110	2,814,940	70	139,490	3	-448,240	-11
SOUTH CENTRAL								
Somerville Lake	68	155,060	155,060	100	0	0	23,160	15
Lake Travis	69	1,144,100	976,130	85	135,230	12	118,430	10
Canyon Lake	70	385,600	385,600	100	0	0	35,260	9
Coletto Creek Reservoir	71	35,060	32,450	93	30	0	9,680	28
Medina Lake	72	254,000	120,800	48	19,900	8	-42,100	-17
TOTAL		1,973,820	1,670,040	85	155,160	8	144,430	7
UPPER COAST								
Lake Houston	73	128,860	128,860	100	0	0	0	0
Lake Texana	74	157,900	154,230	98	-3,670	-2	37,080	23
TOTAL		286,760	283,090	99	-3,670	-1	37,080	13
SOUTHERN								
Choke Canyon Reservoir	75	695,260	540,000	78	6,700	1	-49,000	-7
Lake Corpus Christi	76	241,240	188,800	78	11,400	5	85,000	35
Falcon Reservoir (Texas)	77	1,555,120	557,000	36	-60,000	-4	-267,000	-17
Falcon Reservoir (Texas and Mexico)	(77)	2,653,290	837,000	32	-223,000	-8	-455,000	-17
TOTAL		2,491,620	1,285,800	52	-41,900	-2	-231,000	-9
STATE TOTAL		34,470,430	29,192,050	85	1,500,600	4	1,000,980	3

Note:

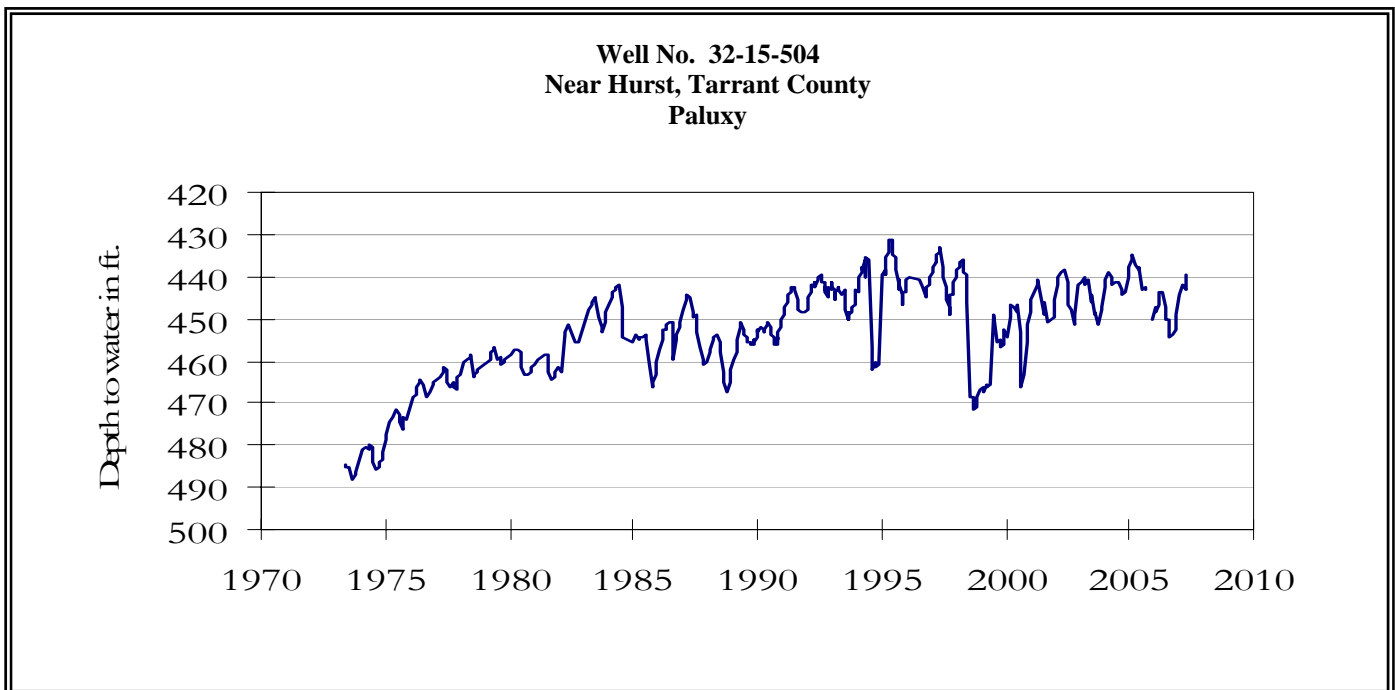
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included 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 $\% \text{ Change} = 100 * (\text{current conservation storage} - \text{past conservation storage}) / \text{conservation storage capacity}$.

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.

APRIL GROUND WATER LEVELS IN OBSERVATION WELLS

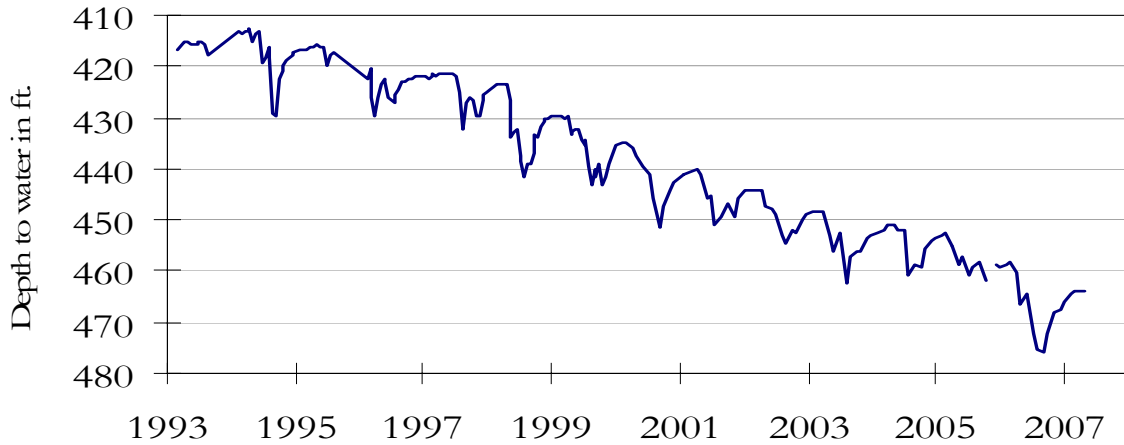


The late April water-level measurement in this Ogallala Aquifer well, elevation 3,816 feet above sea level, was 267.07 feet below land surface. This measurement was 0.08 feet above last month's measurement, 1.47 feet below last year's measurement, and 111.07 feet below the initial measurement recorded in 1968. No water level measurements were recorded for September through December 2005.



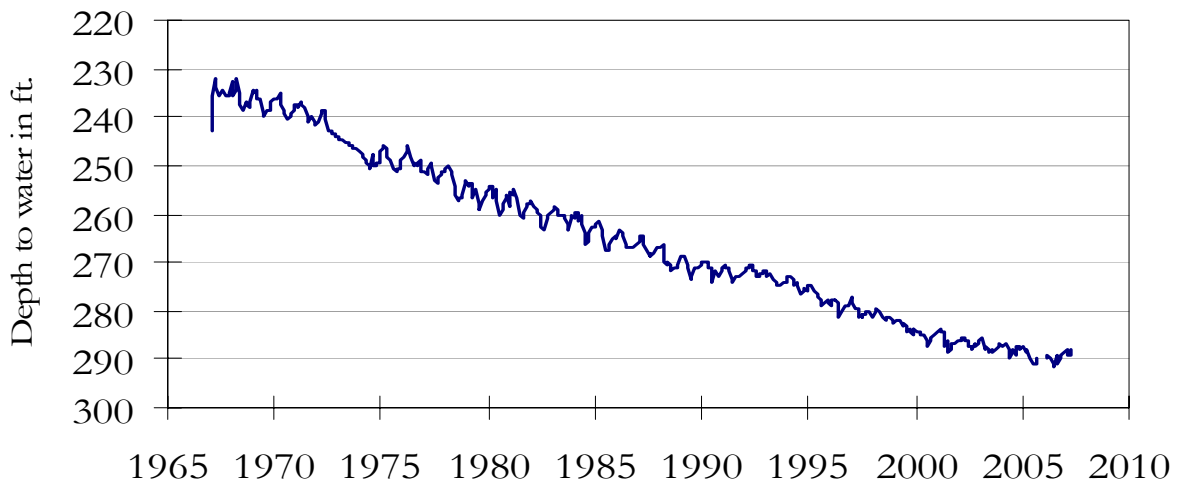
The late April water-level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 439.80 feet below land surface. This measurement was 3.02 feet above last month's measurement, 3.73 feet above last year's measurement, and 61.80 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September or October 2005.

**Well No. 40-35-404
Gatesville, Coryell County
Hosston/Trinity**



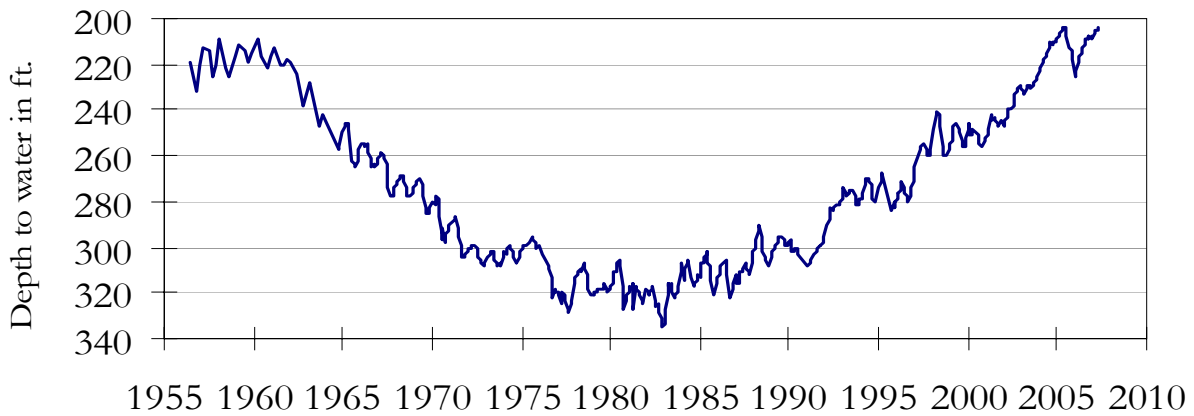
The late April water-level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 464.04 feet below land surface. This water level was 0.15 feet below last month's measurement, 2.28 feet above last year's measurement, and 172.04 feet below the initial measurement recorded in 1955. No water level measurement was recorded for October 2005.

**Well No. 49-13-301
El Paso, El Paso County
Bolson Deposits**



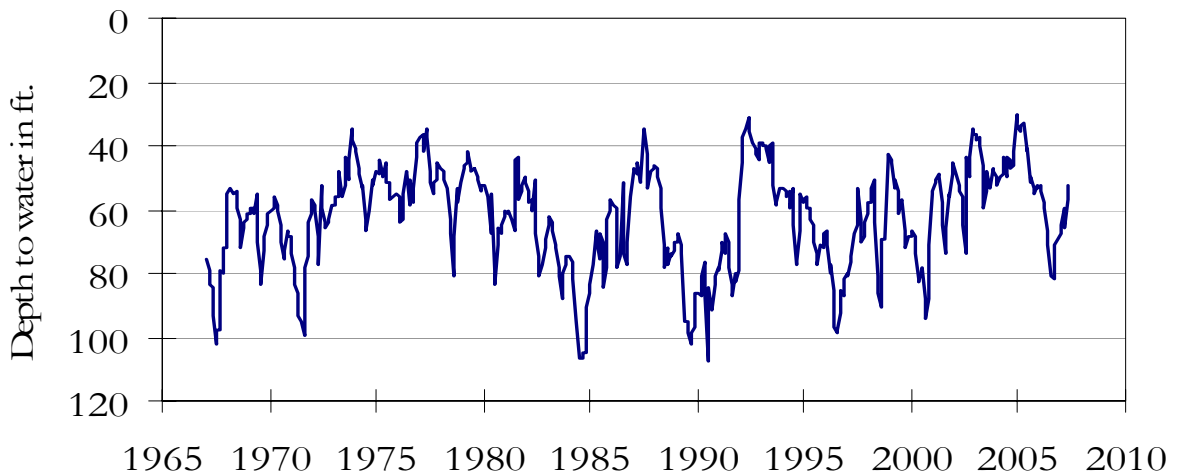
The late April water-level measurement in this Hueco Bolson Aquifer well, elevation 3,882 feet above sea level, was 288.03 feet below land surface. This was 0.98 feet above last month's measurement, 1.76 feet above last year's measurement, and 56.13 feet below the initial measurement in 1964. No water level measurements were recorded for October or December 2005.

**Well No. 65-14-409
Alief, Harris County
Evangeline**



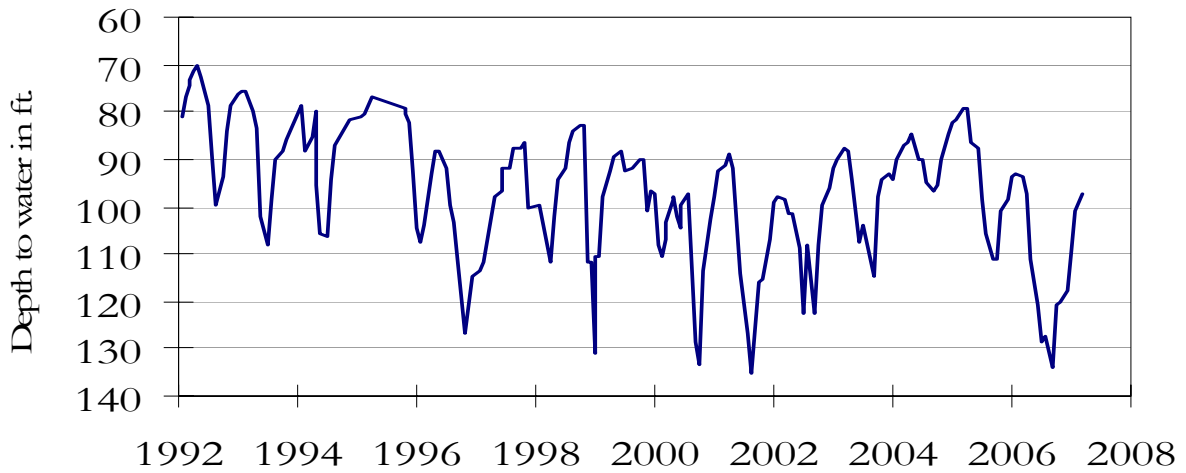
The late April water-level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level, was 203.44 feet below land surface. This was 1.17 feet above last month's measurement, 11.59 feet above last year's measurement, and 67.94 feet below the initial measurement recorded in 1947.

**Well No. 68-37-203 (J-17)
In San Antonio, Bexar County
Edwards and Associated Limestones**



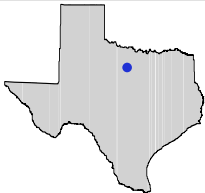
The late April water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 52.80 feet below land surface. This was 4.10 feet above last month's measurement, 14.10 feet above last year's measurement, and 6.16 feet below the initial measurement recorded in 1962.

**Well No. 68-60-912
Between Poteet and Pleasanton, Atascosa County
Carrizo**



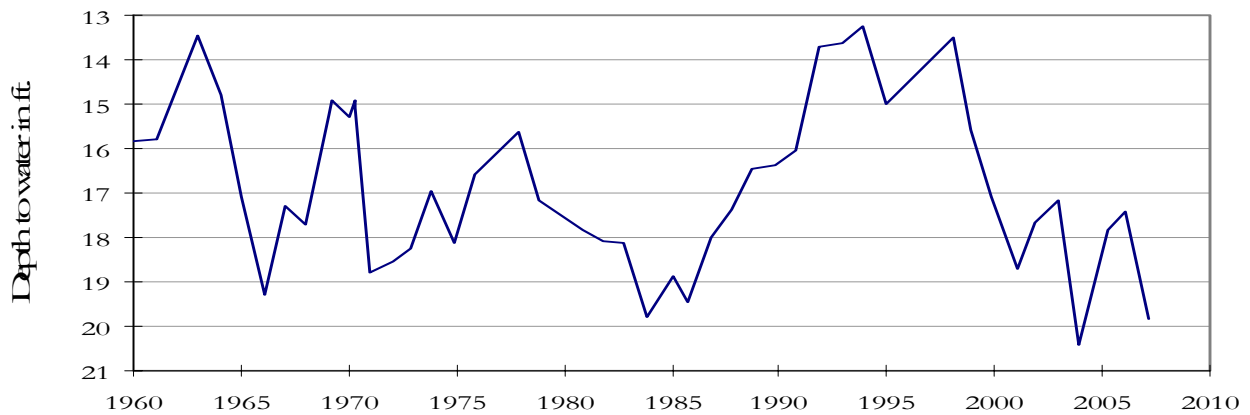
The water-level measurement was not available for this Carrizo Aquifer well (recorder under repair). The graph presented is from last month's report.

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.

**Well No. 21-30-202
Baylor County**



This water level observation well, located 2 miles west of Seymour, at an elevation of 1,297 feet ASL, was completed in the Seymour Aquifer. Water from this aquifer is mainly used for irrigation. No significant water level declines have affected the aquifer.

April, 2007

Water level measurements were available for six of the seven key monitoring wells. Water levels rose in five monitoring wells since the beginning of March, ranging from 0.08 feet in the Castro Co. Ogallala well to 4.10 feet in the Bexar Co. Edwards well. Water levels declined 0.15 feet in the Coryell Co. Trinity well. The J-17 well recorded a water level of 52.80 feet below land surface. This water level is 27.20 feet above the Stage 1 critical management level.

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