

Texas Water Development Board



WATER
AND
CONDITIONS

RESERVOIR STORAGE

March 2008

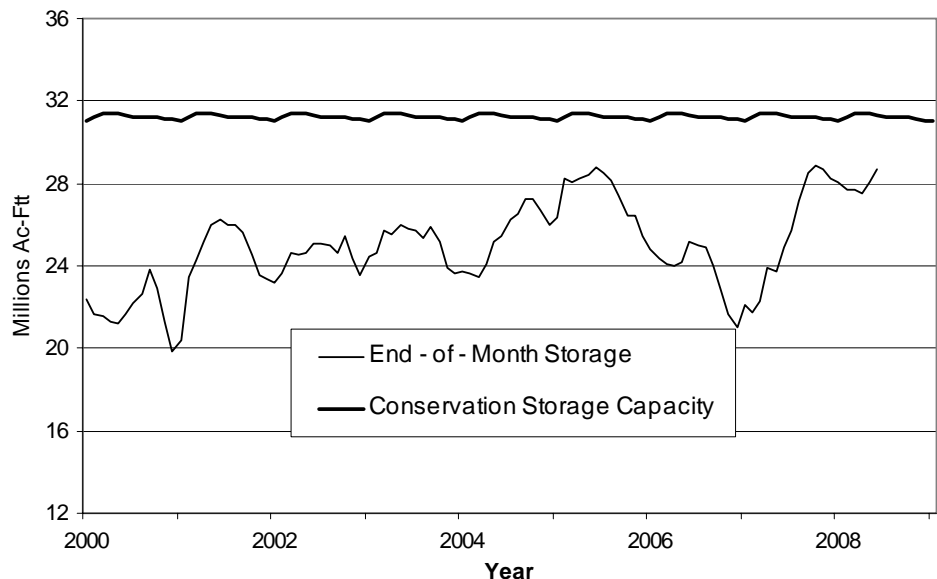
Near the end of March, the 109 reservoirs* monitored for this report held 28.71 million acre-feet in conservation storage, or 92 percent of the combined conservation capacity.

Storage was at 100% in 49 reservoirs. Five regions, East (99%), South and North Central Regions (98%), Upper Coast (97%), and Edwards Plateau (90%) had storage at or above 90% of capacity; however, the High Plains Region (8%) and the Trans-Pecos Region (35.6%) remain very low.

Regionally, storage decreased in five out of nine regions and increased in the other four regions. Compared to this time last year, storage increased in six regions and decreased in three. Statewide, storage increased by more than 0.3 million acre-feet during the month and nearly 3.8 million acre-feet over the past 12 months.

* These reservoirs comprise about 95% of the total conservation capacity of state's 175 major water supply reservoirs.

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS



Figures are based on end of the month data at 109 major reservoirs that represent 95 percent of the total conservation storage capacity of the 175 major water supply reservoirs in Texas. By definition, a major reservoir has a conservation storage capacity of 5,000 acre-feet or greater.

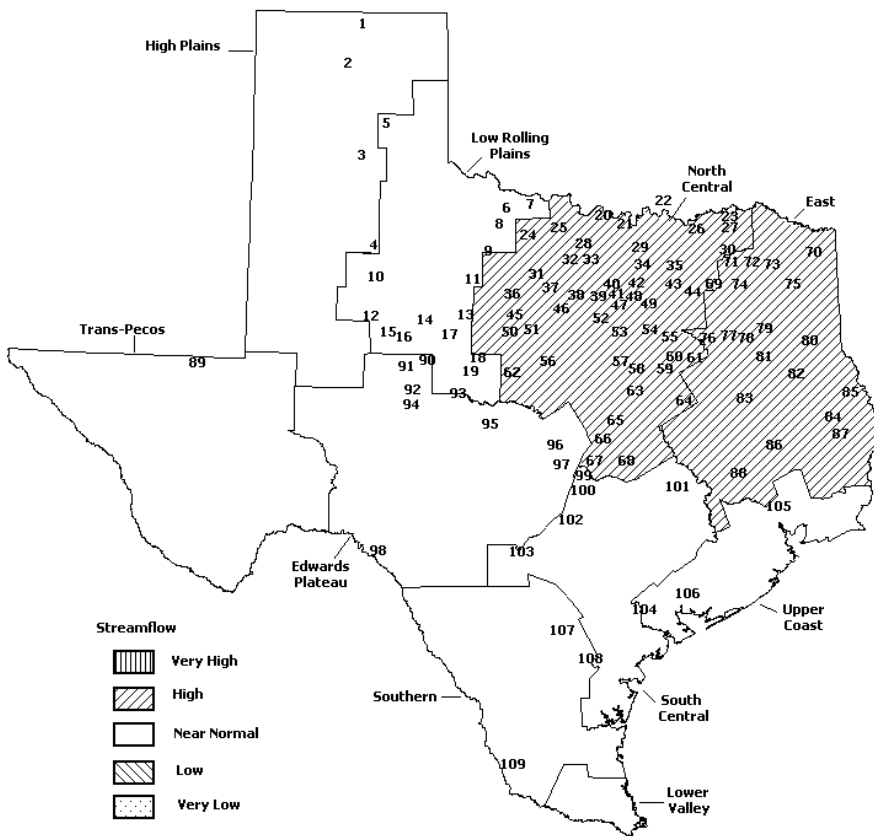
STREAMFLOW

Of 29 reporting index stations in March, computed 30-day mean flows were very high (>5%) at 2 stations, high (5% - 30%) at 7 stations, low (70% - 95%) at 2 stations, and near normal (30% - 70%) at the remaining 18 stations. Compared to February, flows have increased at 12 index stations and decreased at 17 stations.

On a regional basis, flows in March were high in East Texas and North Central Regions, but normal in all other regions. Streamflow in the Lower Valley Region is not monitored.

MARCH STREAMFLOW CONDITIONS

Reservoirs Shown on Map



- | | |
|------------------------------------|-----------------------------------|
| 1. Palo Duro Reservoir | 56. Proctor Lake |
| 2. Meredith, Lake | 57. Whitney Lake |
| 3. MacKenzie Reservoir | 58. Aquilla Lake |
| 4. White River Lake | 59. Navarro Mills Lake |
| 5. Greenbelt Lake | 60. Halbert, Lake |
| 6. Electra, Lake | 61. Richland-Chambers Reservoir |
| 7. N. Fork Buffalo Creek Reservoir | 62. Lake Brownwood |
| 8. Kemp, Lake | 63. Waco Lake |
| 9. Miller's Creek Reservoir | 64. Limestone, Lake |
| 10. Alan Henry Reservoir | 65. Belton Lake |
| 11. Stamford, Lake | 66. Stillhouse Hollow Lake |
| 12. Lake J. B. Thomas | 67. Georgetown, Lake |
| 13. Fort Phantom Hill, Lake | 68. Granger Lake |
| 14. Sweetwater, Lake | 69. Tawakoni, Lake |
| 15. Colorado City, Lake | 70. Wright Patman Lake |
| 16. Champion Creek Reservoir | 71. Sulphur Springs, Lake |
| 17. Abilene, Lake | 72. Cypress Springs, Lake |
| 18. Coleman, Lake | 73. Bob Sandlin, Lake |
| 19. Hords Creek Lake | 74. Fork Reservoir, Lake |
| 20. Farmers Creek Reservoir | 75. O' the Pines, Lake |
| 21. Hubert H Moss Lake | 76. Cedar Creek Reservoir Trinity |
| 22. Texoma, Lake | 77. Athens, Lake |
| 23. Pat Mayse Lake | 78. Palestine, Lake |
| 24. Lake Kickapoo | 79. Tyler, Lake |
| 25. Lake Arrowhead | 80. Murvaul, Lake |
| 26. Bonham, Lake | 81. Jacksonville, Lake |
| 27. Crook, Lake | 82. Nacogdoches, Lake |
| 28. Amon G Carter, Lake | 83. Houston County Lake |
| 29. Ray Roberts, Lake | 84. Sam Rayburn Reservoir |
| 30. Jim Chapman Lake | 85. Toledo Bend Reservoir |
| 31. Graham, Lake | 86. Livingston, Lake |
| 32. Lost Creek Reservoir | 87. B. A. Steinhagen Lake |
| 33. Bridgeport Reservoir | 88. Conroe, Lake |
| 34. Lewisville Lake | 89. Red Bluff Reservoir |
| 35. Lavon Lake | 90. Oak Creek Reservoir |
| 36. Hubbard Creek Reservoir | 91. E. V. Spence Reservoir |
| 37. Possum Kingdom Lake | 92. O. C. Fisher Lake |
| 38. Mineral Wells, Lake | 93. O. H. Ivie Reservoir |
| 39. Weatherford, Lake | 94. Twin Buttes Reservoir |
| 40. Eagle Mountain Lake | 95. Vradly Creek Reservoir |
| 41. Worth, Lake | 96. Buchanan, Lake |
| 42. Grapevine Lake | 97. Lyndon B Johnson, Lake |
| 43. Lake Ray Hubbard | 98. Amistad Reservoir, Intl. |
| 44. New Terrell City Lake | 99. Travis, Lake |
| 45. Daniel, Lake | 100. Austin, Lake |
| 46. Palo Pinto, Lake | 101. Somerville Lake |
| 47. Benbrook Lake | 102. Canyon Lake |
| 48. Arlington, Lake | 103. Medina Lake |
| 49. Joe Pool Lake | 104. Coletto Creek Reservoir |
| 50. Cisco, Lake | 105. Lake Houston |
| 51. Leon, Lake | 106. Texana, Lake |
| 52. Lake Granbury | 107. Choke Canyon Reservoir |
| 53. Pat Cleburne, Lake | 108. Lake Corpus Christi |
| 54. Waxahacie, Lake | 109. Falcon Reservoir, Intl. |
| 55. Bardwell Lake | |

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage		Change since Late February 2008 (acre- feet) (%)		Change since Late March 2007 (acre- feet) (%)		
			Late Mar. (acre- feet)	2008 (%)					
HIGH PLAINS									
Palo Duro Reservoir	1	60,897	608	0	-75	0	-425	-1	
Meredith, Lake (Texas)	2	500,000	44,364	8	-2,558	-1	-30,807	-6	
Meredith, Lake (Texas & Oklahoma)	(2)	779,556	44,364	5	-2,558	0	-30,807	-4	
MacKenzie Reservoir	3	46,429	7,149	15	-93	0	-1,215	-3	
White River Lake	4	29,880	835	2	-275	-1	-1,993	-7	
TOTAL		637,206	52,956	8	-3,001	0	-34,439	-5	
LOW ROLLING PLAINS									
Greenbelt Lake	5	59,500	21,760	36	-99	0	220	0	
*Electra, Lake	6	5,626	1,667	29	-20	0	1,052	19	
N. Fork Buffalo Crk Reservoir	7	15,400	4,612	29	-113	-1	1,834	12	
Kemp, Lake	8	245,308	243,199	99	-151	0	31,316	13	
Millers Creek Reservoir	9	27,888	22,339	80	-189	-1	3,057	11	
Alan Henry Reservoir	10	94,808	89,890	94	-709	-1	-4,918	-5	
Stamford, Lake	11	51,570	48,298	93	-347	-1	15,005	29	
J B Thomas, Lake	12	199,931	20,826	10	-2,162	-1	-5,793	-3	
Fort Phantom Hill, Lake	13	70,030	68,604	97	5,151	7	31,061	44	
Sweetwater, Lake	14	10,006	7,639	76	188	2	7,639	76	
Colorado City, Lake	15	31,793	26,333	82	-213	-1	2,612	8	
Champion Creek Reservoir	16	41,618	9,435	22	29	0	4,497	11	
Abilene, Lake	17	6,099	5,953	97	539	9	3,606	59	
Coleman, Lake	18	38,076	35,786	93	1,493	4	6,509	17	
Hords Creek Lake	19	5,684	4,766	83	163	3	2,326	41	
TOTAL		903,337	611,107	68	3,560	0	100,024	11	
NORTH CENTRAL									
Nocona Lake(Farmers Creek Reservoir)	20	21,445	20,426	95	1,397	7	1,130	5	
Hubert H Moss Lake	21	24,058	24,015	99	1,453	6	-43	0	
Texoma, Lake (Texas)	22	1,185,688	1,185,688	100	26,432	2	0	0	
Texoma, Lake (Texas & Oklahoma)	(22)	2,371,376	2,371,376	100	52,864	2	0	0	
*Pat Mayse Lake	23	118,100	118,100	100	0	0	6,510	6	
Kickapoo, Lake	24	85,825	57,721	67	0	0	6,383	7	
Arrowhead, Lake	25	235,997	206,534	87	3,865	2	38,064	16	
Bonham, Lake	26	11,026	11,026	100	52	0	10	0	
Crook, Lake	27	9,195	9,195	100	104	1	20	0	
Amon G Carter, Lake	28	19,903	19,903	100	2,104	11	1	0	
Ray Roberts, Lake	29	798,758	798,758	100	13,690	2	175,175	22	
Jim Chapman Lake (Cooper)	30	260,332	260,332	100	0	0	114,316	44	
Graham, Lake	31	45,260	41,183	90	2,647	6	4,446	10	
*Lost Creek Reservoir	32	11,950	11,950	100	804	7	0	0	
Bridgeport, Lake	33	366,236	354,655	96	40,213	11	124,728	34	
Lewisville Lake	34	543,988	543,988	100	11,026	2	141,544	26	
Lavon Lake	35	443,844	443,844	100	34,019	8	123,858	28	
Hubbard Creek Reservoir	36	318,067	286,525	90	8,817	3	139,969	44	
Possum Kingdom Lake	37	540,340	524,861	97	8,930	2	-823	0	
*Mineral Wells, Lake	38	7,065	7,034	99	1,056	15	-31	0	
Weatherford, Lake	39	18,645	18,564	99	2,809	15	8,741	47	
Eagle Mountain Lake	40	182,500	182,500	100	21,871	12	55,977	31	
Worth, Lake	41	24,500	24,230	98	3,131	13	2,930	12	
Grapevine Lake	42	164,702	164,702	100	11,209	7	42,468	26	
Ray Hubbard, Lake	43	452,040	452,040	100	827	0	25,283	6	
New Terrell City Lake	44	8,583	8,583	100	0	0	1,145	13	
Daniel, Lake	45	9,435	8,627	91	1,087	12	8,486	90	
Palo Pinto, Lake	46	27,150	26,068	96	5,076	19	-1,082	-4	
Benbrook Lake	47	85,648	85,648	100	6,737	8	0	0	
Arlington, Lake	48	38,740	38,740	100	4,268	11	0	0	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage		Change since Late February 2008 (acre- feet) (%)		Change since Late March 2007 (acre- feet) (%)		
			Late Mar. (acre- feet)	2008 (%)					
NORTH CENTRAL (Continue)									
Joe Pool Lake	49	142,861	142,861	100	5,314	4	0	0	
*Cisco, Lake	50	26,000	21,455	82	658	3	9,198	35	
Leon, Lake	51	26,421	26,421	100	2,143	8	5,324	20	
Granbury, Lake	52	128,046	124,346	97	5,679	4	755	1	
Pat Cleburne, Lake	53	25,730	25,730	100	1,353	5	0	0	
Waxahachie, Lake	54	10,779	10,779	100	307	3	0	0	
Bardwell Lake	55	46,122	46,122	100	0	0	0	0	
Proctor Lake	56	55,457	55,457	100	1,513	3	28,966	52	
Whitney, Lake	57	553,349	508,877	91	101,587	18	17,066	3	
Aquilla Lake	58	45,092	45,092	100	2,754	6	0	0	
Navarro Mills Lake	59	55,817	55,817	100	4,305	8	0	0	
*Halbert, Lake	60	6,033	5,396	89	-65	-1	1,846	31	
Richland-Chambers Reservoir	61	1,103,816	1,103,816	100	52,904	5	110,010	10	
*Brownwood, Lake	62	131,429	126,672	96	6,502	5	17,165	13	
Waco, Lake	62	198,943	198,943	100	0	0	0	0	
Limestone, Lake	64	208,015	208,015	100	17,783	9	0	0	
Belton Lake	65	435,225	435,225	100	0	0	0	0	
Stillhouse Hollow Lake	66	227,771	227,771	100	0	0	0	0	
Georgetown, Lake	67	36,823	31,364	85	-927	-3	-5,459	-15	
Granger Lake	68	52,525	52,525	100	0	0	0	0	
Tawakoni, Lake	69	888,126	888,126	100	25,763	3	262,217	30	
TOTAL		10,463,400	10,276,250	98	441,197	4	1,466,293	14	
EAST									
Wright Patman Lake	70	122,593	122,593	100	0	0	0	0	
*Sulphur Springs, Lake	71	17,838	17,838	100	0	0	0	0	
Cypress Springs, Lake	72	67,689	67,689	100	0	0	7,074	10	
Bob Sandlin, Lake	73	200,579	200,579	100	0	0	61,238	31	
Fork Reservoir, Lake	74	604,927	604,927	100	2,112	0	34,641	6	
O the Pines, Lake	75	238,933	238,933	100	0	0	0	0	
Cedar Creek Reservoir in Trinity	76	644,686	644,364	99	4,179	1	3,214	0	
Athens, Lake	77	29,435	29,435	100	0	0	36	0	
Palestine, Lake	78	370,907	370,907	100	0	0	0	0	
Tyler, Lake	79	73,256	73,256	100	0	0	14,343	20	
Murvault, Lake	80	38,284	38,284	100	0	0	0	0	
Jacksonville, Lake	81	30,300	30,300	100	0	0	0	0	
Nacogdoches, Lake	82	39,521	39,114	98	-22	0	533	1	
Houston County Lake	83	17,113	17,113	100	0	0	0	0	
Sam Rayburn Reservoir	84	2,857,077	2,726,670	95	155,364	5	-128,162	-4	
Toledo Bend Reservoir (Texas)	85	2,236,450	2,236,450	100	112,278	5	162,839	7	
Toledo Bend Reservoir (TX & LA)	(85)	4,472,900	4,472,900	100	224,555	5	325,678	7	
*Livingston, Lake	86	1,741,867	1,741,867	100	2,867	0	0	0	
B A Steinhagen Lake	87	66,966	60,413	90	4,227	6	60,225	90	
Conroe, Lake	88	416,188	415,408	99	-780	0	-780	0	
TOTAL		9,814,609	9,676,140	99	280,225	3	215,202	2	
TRANS-PECOS									
Red Bluff Reservoir	89	289,670	103,088	35	-4,478	-2	-7,159	-2	
TOTAL		289,670	103,088	36	-4,478	-2	-7,159	-2	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

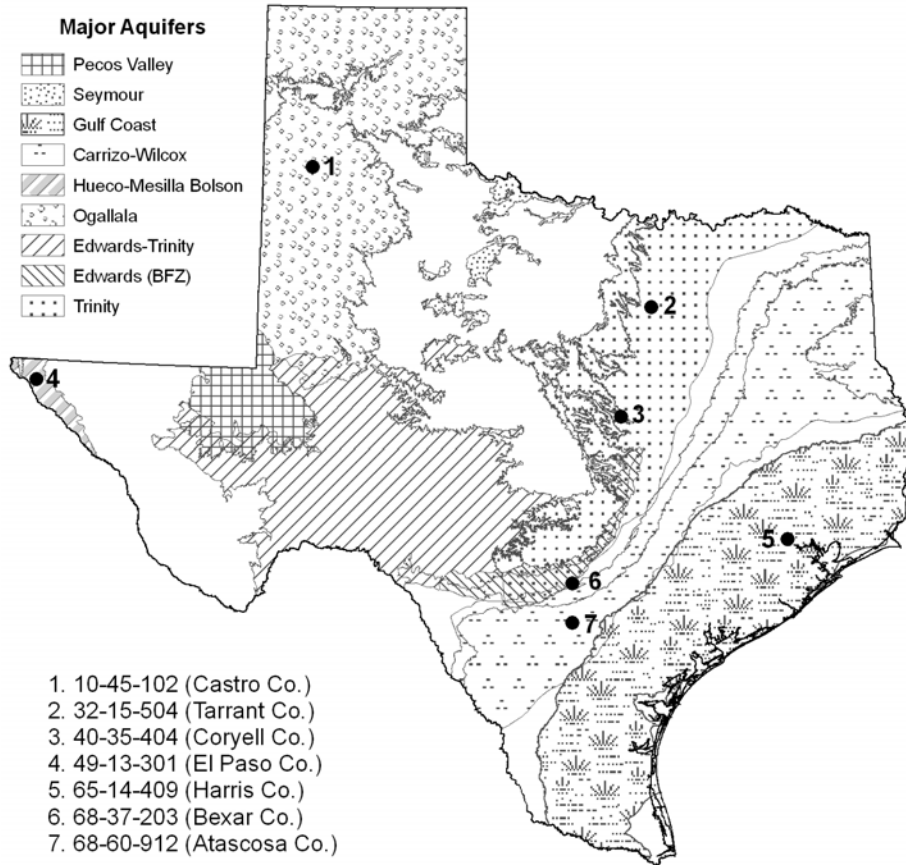
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage		Change since Late February 2008 (acre- feet) (%)		Change since Late March 2007 (acre- feet) (%)		
			Late Mar. (acre- feet)	2008 (%)					
EDWARDS PLATEAU									
Oak Creek Reservoir	90	39,260	38,137	97	366	1	31,297	80	
E V Spence Reservoir	91	517,272	71,440	13	-465	0	1,562	0	
O C Fisher Lake	92	79,483	0	0	0	0	0	0	
*O H Ivie Reservoir	93	554,335	379,216	68	9,124	2	156,109	28	
Twin Buttes Reservoir	94	177,850	73,646	41	3,152	2	41,150	23	
Brady Creek Reservoir	95	29,110	15,862	54	583	2	2,922	10	
Buchanan, Lake	96	875,610	827,336	94	6,921	1	321,257	37	
Lyndon B Johnson, Lake	97	113,690	112,532	98	5,734	5	2,313	2	
*Amistad Reservoir (Texas)	98	1,840,849	2,277,000	124	-2,000	0	424,000	23	
*Amistad Reservoir (TX & Mexico)	(98)	3,275,532	2,857,000	87	3,000	0	260,000	8	
TOTAL		4,227,459	3,795,169	90	23,415	1	980,609	23	
SOUTH CENTRAL									
Travis, Lake	99	1,113,902	1,102,234	98	-11,668	-1	265,848	24	
*Austin, Lake	100	21,804	21,365	97	288	1	484	2	
Somerville Lake	101	147,104	147,104	100	0	0	0	0	
Canyon Lake	102	378,781	378,699	99	164	0	-82	0	
Medina Lake	103	254,823	227,171	89	-5,733	-2	121,332	48	
*Coletto Creek Reservoir	104	31,040	30,711	98	141	0	-329	-1	
TOTAL		1,947,454	1,907,284	98	-16,808	-1	387,253	20	
UPPER COAST									
Houston, Lake	105	128,863	128,863	100	0	0	0	0	
Texana, Lake	106	153,246	144,721	94	-2,383	-2	-8,525	-6	
TOTAL		282,109	273,584	97	-2,383	-1	-8,525	-3	
SOUTHERN									
Choke Canyon Reservoir	107	695,262	669,399	96	-4,313	-1	137,161	20	
Corpus Christi, Lake	108	256,961	247,566	96	-1,987	-1	65,671	26	
*Falcon Reservoir (Texas)	109	1,551,034	1,096,000	71	-81,000	-5	479,000	31	
*Falcon Reservoir (TX & Mexico)	(109)	2,646,817	1,303,000	49	-92,000	-3	243,000	9	
TOTAL		2,503,257	2,012,965	80	-87,300	-3	681,832	27	
STATE TOTAL		31,068,501	28,708,543	92	634,427	2	3,781,089	12	

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

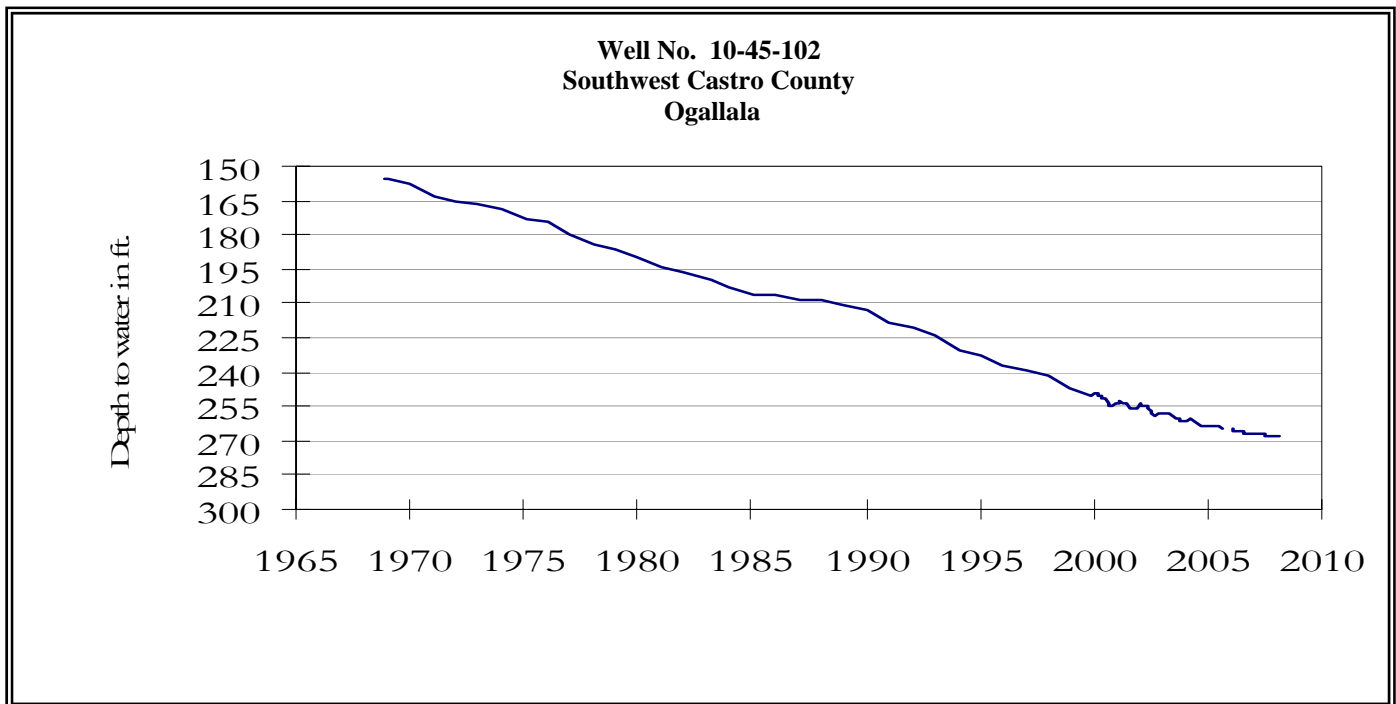
Note

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 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 $100 * (\text{current conservation storage} - \text{past conservation storage}) / \text{conservation storage capacity}$. Figures shown are for the Texas share of conservation storage in all reservoirs.

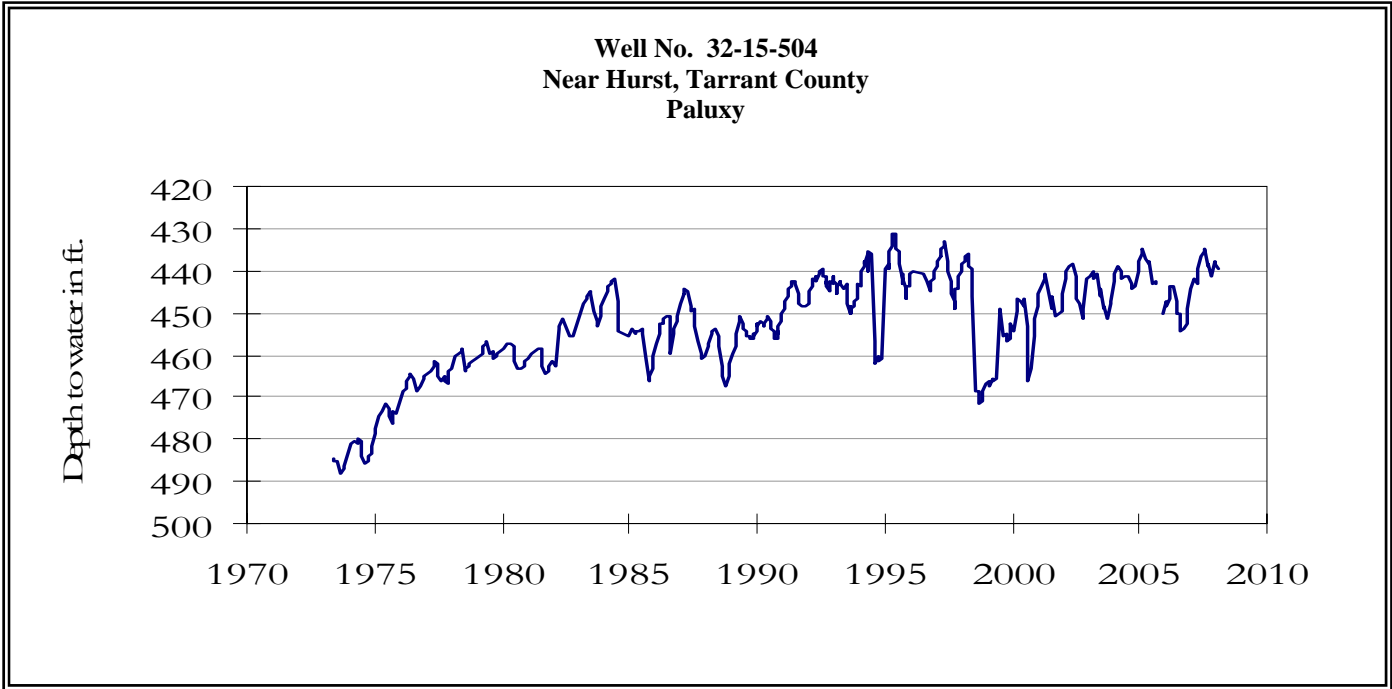
GROUND WATER LEVELS IN OBSERVATION WELLS



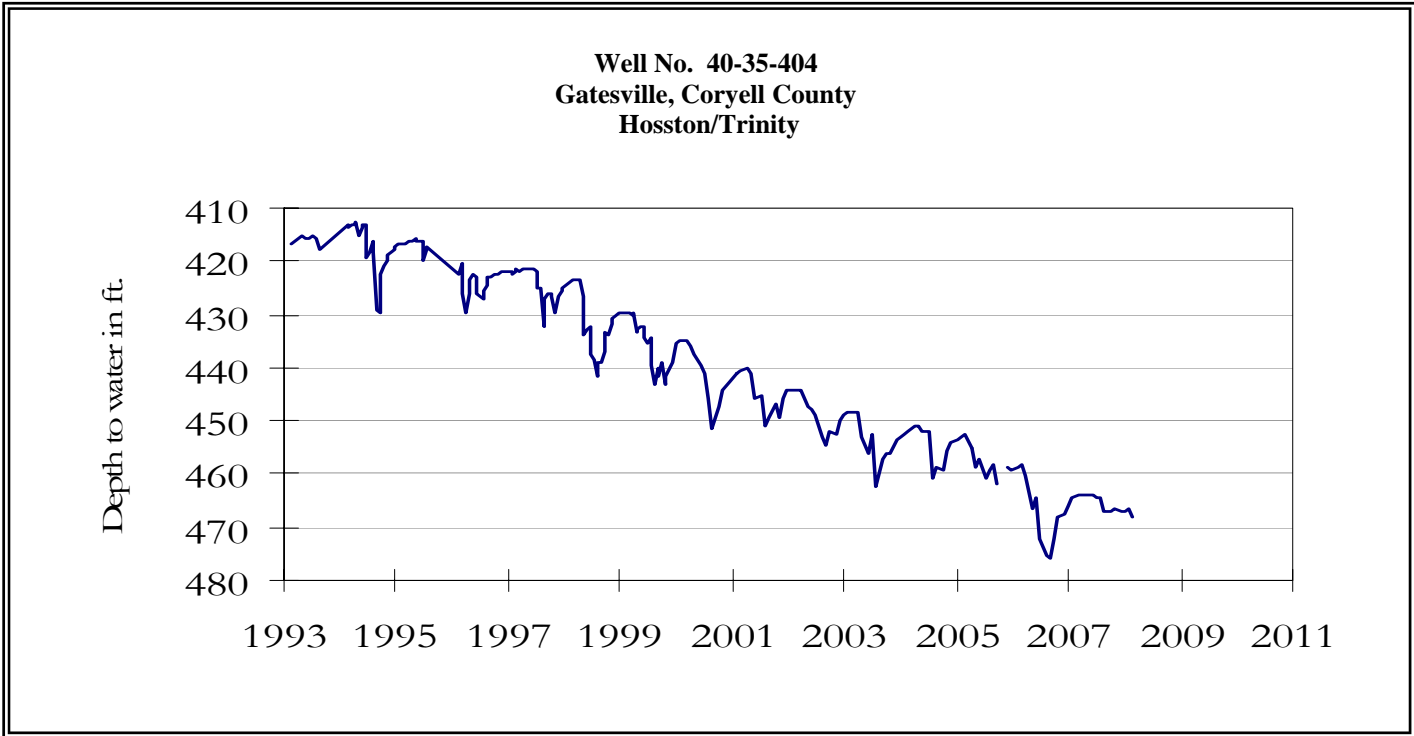
MARCH GROUND WATER LEVELS IN OBSERVATION WELLS



The late March water-level measurement in this Ogallala Aquifer well, elevation 3,816 feet above sea level, was 268.62 feet below land surface. This measurement was 0.57 feet below last month's measurement, 1.47 feet below last year's measurement, and 112.62 feet below the initial measurement recorded in 1968. No water level measurements were recorded for September through December 2005.

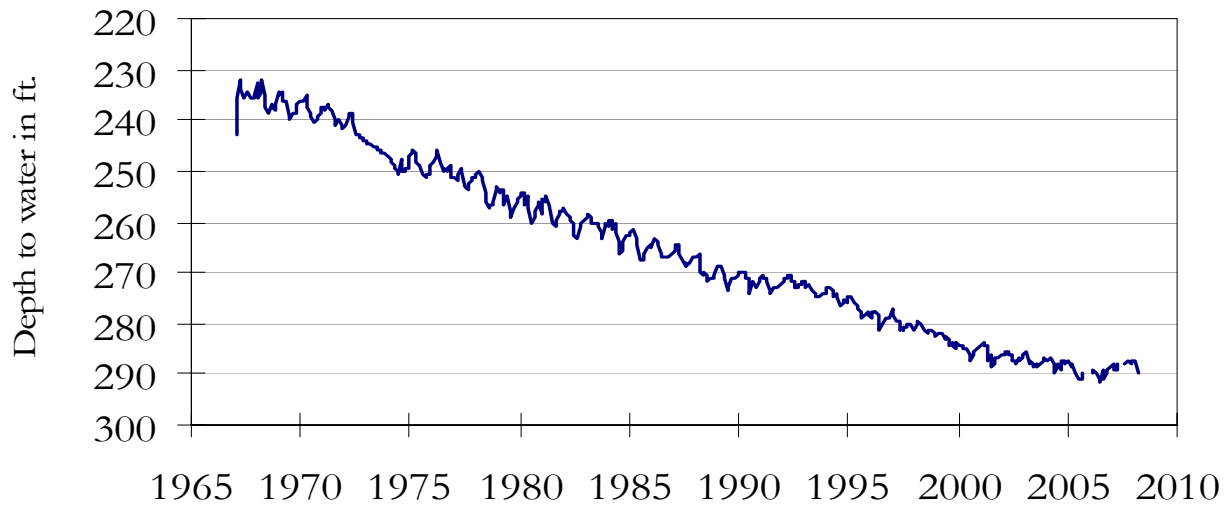


The late March water-level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 435.35 feet below land surface. This measurement was 4.22 feet above last month's measurement, 7.47 feet above last year's measurement, and 57.35 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September or October 2005.



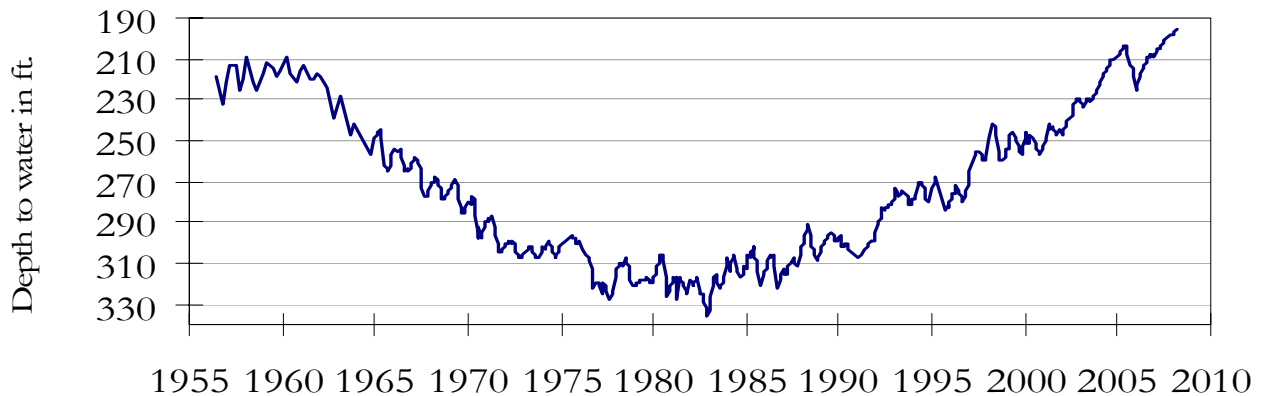
The late March water-level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 467.4 feet below land surface. This water level was 0.47 feet above last month's measurement, 3.51 feet below last year's measurement, and 175.4 feet below the initial measurement recorded in 1955. No water level measurement was recorded for October 2005.

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



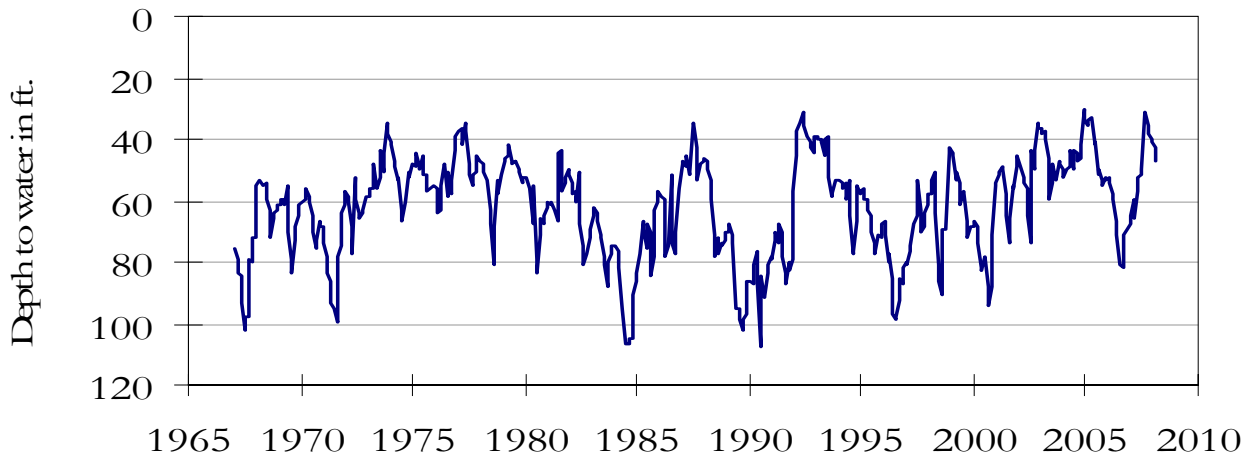
The late March water-level measurement in this Hueco Bolson Aquifer well, elevation 3,882 feet above sea level, was 288.27 feet below land surface. This water level was 1.67 feet above last month's measurement, 0.74 feet above last year's measurement, and 56.37 feet below the initial measurement in 1964. No water level measurements were recorded for May through July 2007, and October or December 2005.

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



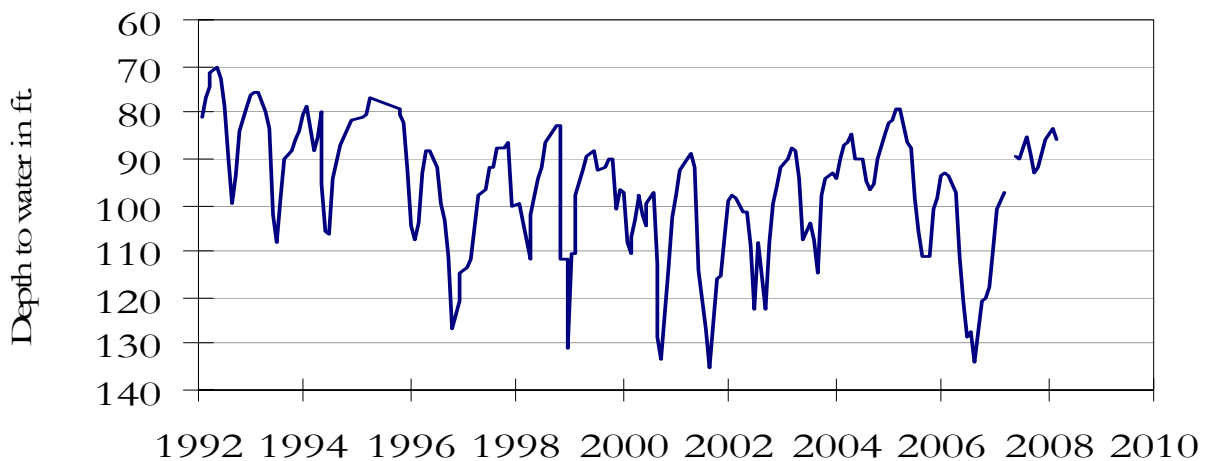
The late March water-level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level, was 193.99 feet below land surface. This was 1.11 feet above last month's measurement, 10.62 feet above last year's measurement, and 58.49 feet below the initial measurement recorded in 1947.

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



The late March water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 47.90 feet below land surface. This was 0.40 feet below last month's measurement, 9.00 feet above last year's measurement, and 1.26 feet below the initial measurement recorded in 1962.

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



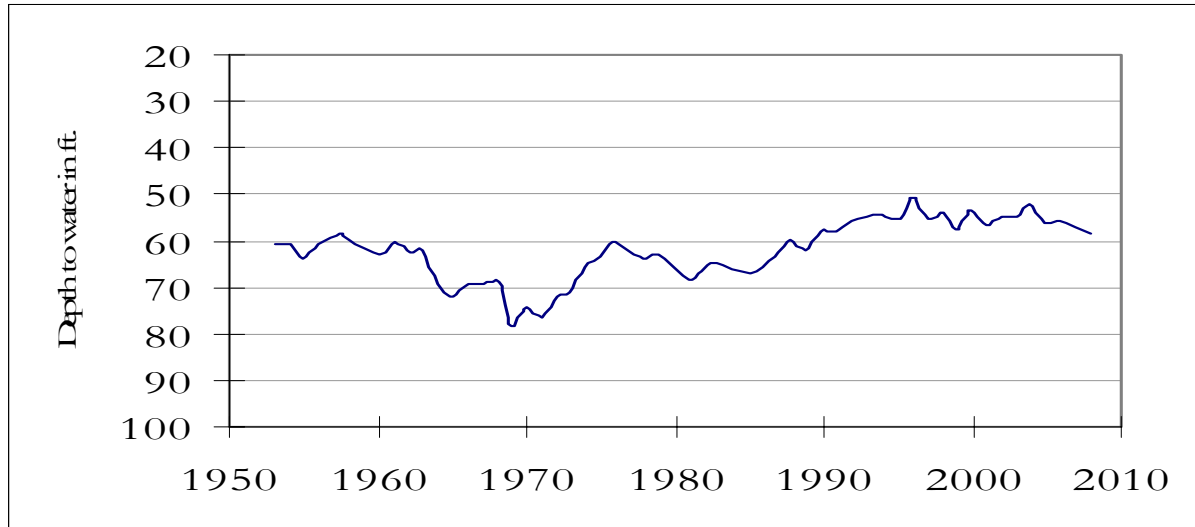
The late March water-level measurement in this Carrizo Aquifer well, elevation 446 feet above sea level, was 89.56 feet below land surface. This measurement was 3.72 feet below last month's measurement, and 54.20 feet below the initial measurement recorded in 1965. No water level measurements were recorded for March and April 2007.

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 13-42-402 Hardeman County



This water level observation well, located 8 miles northwest of Quanah, at an elevation of 1548 feet ASL, was completed in the Blaine Aquifer. Due to poor water quality and limited use, the Blaine Aquifer has not experienced significant water level declines.

March, 2008

Water level measurements were available for all seven key monitoring wells. Water levels rose in four of the seven monitoring wells since the beginning of March, ranging from 0.47 feet in the Gatesville Trinity well to 4.22 feet in the Tarrant Co. Trinity well. Water levels declined in the remaining monitoring wells, ranging from 0.40 feet in the Bexar Co. Edwards well to 3.72 feet in the Atascosa Co. Carrizo Well. The J-17 well recorded a water level of 47.90 feet below land surface, 0.40 feet below last month's measurement. This water level is 33.10 feet above the Stage 1 critical management level.

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