

Texas Water Development Board



WATER
AND
CONDITIONS

RESERVOIR STORAGE

February 2008

Near the end of February, the 109 reservoirs* monitored for this report held 28.07 million acre-feet** in conservation storage, or 90 percent of the combined conservation capacity.

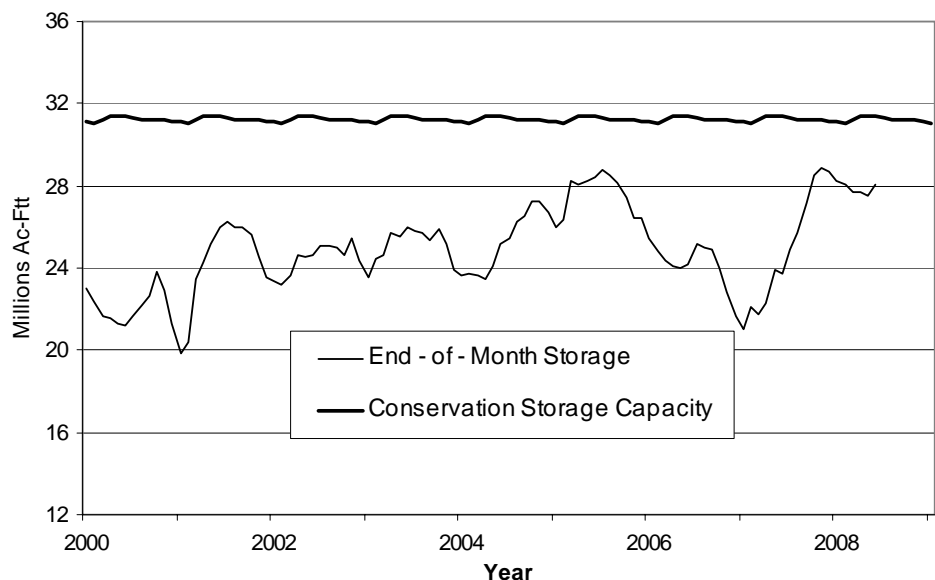
Storage was at 100% in 23 reservoirs. Four regions, South Central (99%), Upper Coast (98%), East (96%), and North Central (94%) had storage above 90% of capacity; however, the High Plains Region (9%) and the Trans-Pecos Region (37%) remain a very low storage level.

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 during the month by more than 0.5 million acre-feet, and nearly 4.4 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.

** Only the water belonging to Texas is counted.

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.

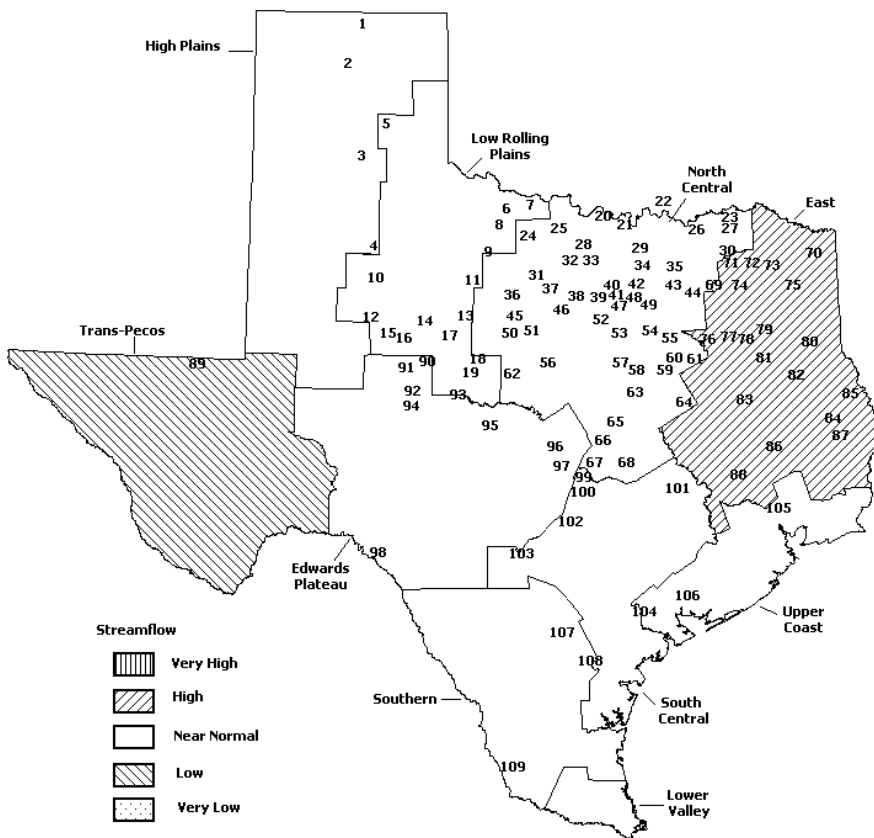
STREAMFLOW

Of 29 reporting index stations in February, computed 30-day mean flows were high (5% - 30%) at 7 stations, low (70% - 95%) at 2 stations, and near normal (30% - 70%) at the remaining 20 stations. Compared to January, flows have increased at 17 index stations and decreased at 12 stations.

On a regional basis, flows in February were high in East Texas and low in Trans-Pecos Regions, but normal in all other regions. Streamflow in the Lower Valley Region is not monitored.

FEBRUARY 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 January 2008 (acre- feet) (%)		Change since Late February 2007 (acre- feet) (%)	
			Late Feb. (acre- feet)	2008 (%)				
HIGH PLAINS								
Palo Duro Reservoir	1	60,897	683	1	-60	0	-302	0
Meredith, Lake (Texas)	2	500,000	46,922	9	-2,401	0	-22,717	-5
Meredith, Lake (Texas & Oklahoma)	(2)	779,556	46,922	6	-2,401	0	-22,717	-3
MacKenzie Reservoir	3	46,429	7,242	15	-75	0	-577	-1
White River Lake	4	29,880	1,110	3	-222	-1	-1,160	-4
TOTAL		637,206	55,957	9	-2,758	0	-24,755	-4
LOW ROLLING PLAINS								
Greenbelt Lake	5	59,500	21,859	36	-51	0	3,163	5
*Electra, Lake	6	5,626	1,687	29	-17	0	1,067	19
N. Fork Buffalo Crk Reservoir	7	15,400	4,725	30	-104	-1	2,089	14
Kemp, Lake	8	245,308	243,350	99	-1,958	-1	38,599	16
Millers Creek Reservoir	9	27,888	22,528	80	-402	-1	3,415	12
Alan Henry Reservoir	10	94,808	90,599	95	-682	-1	-3,779	-4
Stamford, Lake	11	51,570	48,645	94	-942	-2	16,153	31
J B Thomas, Lake	12	199,931	22,988	11	-2,270	-1	-3,783	-2
Fort Phantom Hill, Lake	13	70,030	63,453	90	-1,518	-2	27,849	40
Sweetwater, Lake	14	10,006	7,451	74	-84	-1	7,451	74
Colorado City, Lake	15	31,793	26,546	83	-395	-1	3,565	11
Champion Creek Reservoir	16	41,618	9,406	22	11	0	5,125	12
Abilene, Lake	17	6,099	5,414	88	-126	-2	3,111	51
Coleman, Lake	18	38,076	34,293	90	-454	-1	7,069	19
Hords Creek Lake	19	5,684	4,603	80	-135	-2	2,572	45
TOTAL		903,337	607,547	67	-9,127	-1	113,666	13
NORTH CENTRAL								
Farmers Creek Reservoir (Nocona)	20	21,445	19,029	88	-115	-1	4,568	21
Hubert H Moss Lake	21	24,058	22,562	93	73	0	676	3
Texoma, Lake (Texas)	22	1,185,688	1,159,256	97	-15,447	-1	-30,702	-3
Texoma, Lake (Texas & Oklahoma)	(22)	2,371,376	2,318,512	97	-30,894	-1	-61,405	-3
*Pat Mayse Lake	23	118,100	118,100	100	234	0	5,422	5
Kickapoo, Lake	24	85,825	57,721	67	-1,942	-2	5,494	6
Arrowhead, Lake	25	235,997	202,669	85	-3,465	-1	40,493	17
Bonham, Lake	26	11,026	10,974	99	1,173	11	256	2
Crook, Lake	27	9,195	9,091	98	186	2	185	2
Amon G Carter, Lake	28	19,903	17,799	89	-174	-1	6,702	34
Ray Roberts, Lake	29	798,758	785,068	98	4,863	1	178,561	22
Jim Chapman Lake (Cooper)	30	260,332	260,332	100	-29,295	-11	109,847	42
Graham, Lake	31	45,260	38,536	85	46	0	5,172	11
*Lost Creek Reservoir	32	11,950	11,146	93	-81	-1	384	3
Bridgeport, Lake	33	366,236	314,442	85	-3,970	-1	126,099	34
Lewisville Lake	34	543,988	532,962	97	16,249	3	148,994	27
Lavon Lake	35	443,844	409,825	92	32,251	7	107,558	24
Hubbard Creek Reservoir	36	318,067	277,708	87	-280	0	135,378	43
Possum Kingdom Lake	37	540,340	515,931	95	1,135	0	14,641	3
*Mineral Wells, Lake	38	7,065	5,978	84	-65	-1	1,335	19
Weatherford, Lake	39	18,645	15,755	84	-86	0	6,274	34
Eagle Mountain Lake	40	182,500	160,629	88	-646	0	50,169	27
Worth, Lake	41	24,500	21,099	86	-268	-1	5,913	24
Grapevine Lake	42	164,702	153,493	93	-385	0	53,709	33
Ray Hubbard, Lake	43	452,040	451,213	99	2,480	1	39,091	9
New Terrell City Lake	44	8,583	8,583	100	272	3	3,762	44
Daniel, Lake	45	9,435	7,540	79	-134	-1	7,366	78
Palo Pinto, Lake	46	27,150	20,992	77	-556	-2	9,592	35
Benbrook Lake	47	85,648	78,911	92	-2,524	-3	1,276	1
Arlington, Lake	48	38,740	34,472	88	1,565	4	-2,220	-6

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 January 2008 (acre- feet) (%)		Change since Late February 2007 (acre- feet) (%)		
			Late Feb. (acre- feet)	2008 (%)					
NORTH CENTRAL (Continue)									
Joe Pool Lake	49	142,861	137,547	96	3,146	2	-5,314	-4	
*Cisco, Lake	50	26,000	20,797	79	-233	-1	9,246	36	
Leon, Lake	51	26,421	24,278	91	-193	-1	7,612	29	
Granbury, Lake	52	128,046	118,667	92	-73	0	-4,320	-3	
Pat Cleburne, Lake	53	25,730	24,377	94	0	0	-1,353	-5	
Waxahachie, Lake	54	10,779	10,472	97	100	1	-307	-3	
Bardwell Lake	55	46,122	46,122	100	1,083	2	0	0	
Proctor Lake	56	55,457	53,944	97	-311	-1	29,148	53	
Whitney, Lake	57	553,349	407,290	73	-11,034	-2	6,804	1	
Aquilla Lake	58	45,092	42,338	93	468	1	12,561	28	
Navarro Mills Lake	59	55,817	51,512	92	195	0	26,850	48	
*Halbert, Lake	60	6,033	5,461	90	688	11	1,747	29	
Richland-Chambers Reservoir	61	1,103,816	1,050,912	95	14,651	1	205,696	19	
*Brownwood, Lake	62	131,429	120,170	91	-1,318	-1	28,852	22	
Waco, Lake	62	198,943	198,943	100	0	0	75,639	38	
Limestone, Lake	64	208,015	190,232	91	4,278	2	-14,611	-7	
Belton Lake	65	435,225	435,225	100	0	0	77,028	18	
Stillhouse Hollow Lake	66	227,771	227,771	100	0	0	14,601	6	
Georgetown, Lake	67	36,823	32,291	87	-1,604	-4	11,718	32	
Granger Lake	68	52,525	52,525	100	0	0	0	0	
Tawakoni, Lake	69	888,126	862,363	97	45,044	5	251,606	28	
TOTAL		10,463,400	9,835,053	94	55,981	1	1,769,196	17	
EAST									
Wright Patman Lake	70	122,593	122,593	100	0	0	0	0	
*Sulphur Springs, Lake	71	17,838	17,838	100	839	5	0	0	
Cypress Springs, Lake	72	67,689	67,689	100	725	1	7,610	11	
Bob Sandlin, Lake	73	200,579	200,579	100	6,656	3	61,313	31	
Fork Reservoir, Lake	74	604,927	602,815	99	4,752	1	50,548	8	
O the Pines, Lake	75	238,933	238,933	100	0	0	-5,230	-2	
Cedar Creek Reservoir in Trinity	76	644,686	640,185	99	31,697	5	64,845	10	
Athens, Lake	77	29,435	29,435	100	0	0	1,860	6	
Palestine, Lake	78	370,907	370,907	100	1,304	0	0	0	
Tyler, Lake	79	73,256	73,256	100	2,801	4	16,317	22	
Murvaul, Lake	80	38,284	38,284	100	3,294	9	0	0	
Jacksonville, Lake	81	30,300	30,300	100	0	0	0	0	
Nacogdoches, Lake	82	39,521	39,136	99	2,797	7	256	1	
Houston County Lake	83	17,113	17,113	100	0	0	0	0	
Sam Rayburn Reservoir	84	2,857,077	2,571,306	89	270,297	9	-285,771	-10	
Toledo Bend Reservoir (Texas)	85	2,236,450	2,124,172	94	192,196	9	87,408	4	
Toledo Bend Reservoir (TX & LA)	(85)	4,472,900	4,248,345	94	384,393	9	174,818	4	
*Livingston, Lake	86	1,741,867	1,739,000	99	-2,867	0	-2,867	0	
B A Steinhagen Lake	87	66,966	56,186	83	-4,328	-6	55,570	83	
Conroe, Lake	88	416,188	416,188	100	3,313	1	585	0	
TOTAL		9,814,609	9,395,915	96	513,476	5	52,445	1	
TRANS-PECOS									
Red Bluff Reservoir	89	289,670	107,566	37	-54	0	-1,073	0	
TOTAL		289,670	107,566	37	-54	0	-1,073	0	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

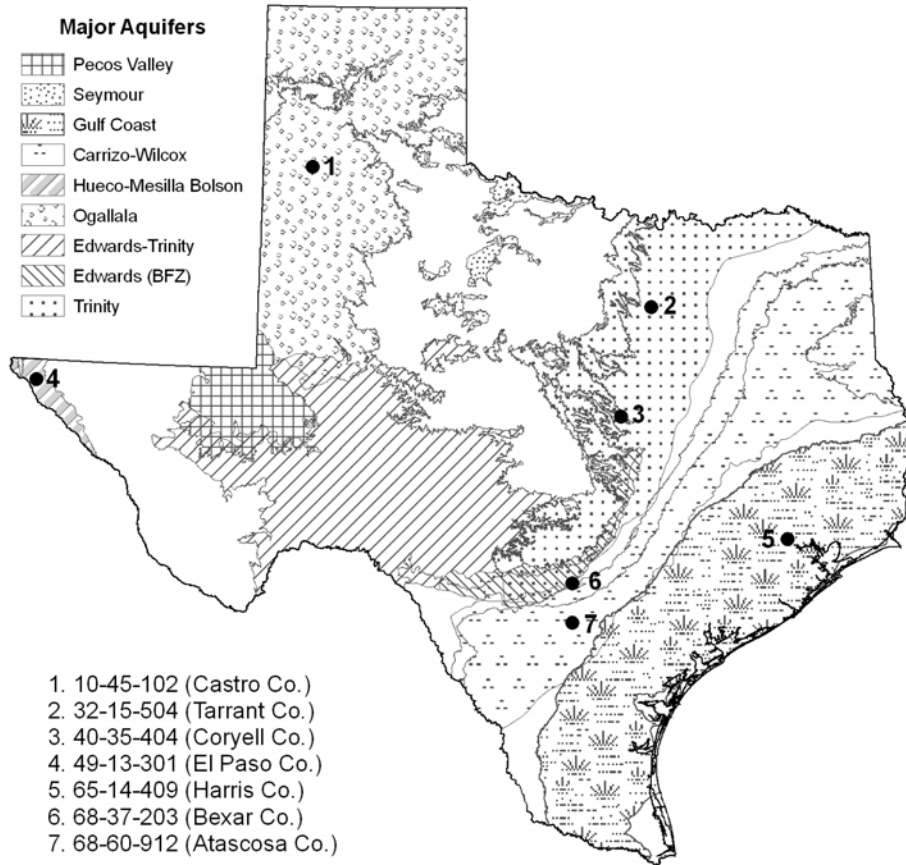
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage		Change since Late January 2008 (acre- feet) (%)		Change since Late February 2007 (acre- feet) (%)		
			Late Feb. (acre- feet)	2008 (%)					
EDWARDS PLATEAU									
Oak Creek Reservoir	90	39,260	37,771	96	-298	-1	31,064	79	
E V Spence Reservoir	91	517,272	71,905	13	-1,984	0	4,908	1	
O C Fisher Lake	92	79,483	0	0	0	0	0	0	
*O H Ivie Reservoir	93	554,335	370,092	66	-729	0	153,188	28	
Twin Buttes Reservoir	94	177,850	70,494	39	895	1	-15,396	-9	
Brady Creek Reservoir	95	29,110	15,279	52	-223	-1	2,699	9	
Buchanan, Lake	96	875,610	820,415	93	-24,312	-3	351,687	40	
Lyndon B Johnson, Lake	97	113,690	106,798	93	21,708	19	-6,314	-6	
*Amistad Reservoir (Texas)	98	1,840,849	2,279,000	124	10,000	1	443,000	24	
*Amistad Reservoir (TX & Mexico)	(98)	3,275,532	2,854,000	87	20,000	1	285,000	9	
TOTAL		4,227,459	3,771,754	89	5,057	0	964,837	23	
SOUTH CENTRAL									
Travis, Lake	99	1,113,902	1,113,902	100	0	0	518,531	47	
*Austin, Lake	100	21,804	21,077	96	14,152	65	165	1	
Somerville Lake	101	147,104	147,104	100	0	0	0	0	
Canyon Lake	102	378,781	378,535	99	-246	0	49,312	13	
Medina Lake	103	254,823	232,904	91	-7,406	-3	142,333	56	
*Coletto Creek Reservoir	104	31,040	30,570	98	-399	-1	-470	-2	
TOTAL		1,947,454	1,924,092	99	6,101	0	709,871	36	
UPPER COAST									
Houston, Lake	105	128,863	128,863	100	0	0	790	1	
Texana, Lake	106	153,246	147,104	95	-642	0	-4,492	-3	
TOTAL		282,109	275,967	98	-642	0	-3,702	-1	
SOUTHERN									
Choke Canyon Reservoir	107	695,262	673,712	96	3,044	0	159,050	23	
Corpus Christi, Lake	108	256,961	249,553	97	-6,143	-2	132,991	52	
*Falcon Reservoir (Texas)	109	1,551,034	1,177,000	76	-29,000	-2	517,000	33	
*Falcon Reservoir (TX & Mexico)	(109)	2,646,817	1,395,000	53	-40,000	-2	279,000	11	
TOTAL		2,503,257	2,100,265	84	-32,099	-1	809,041	32	
STATE TOTAL		31,068,501	28,074,116	90	535,935	2	4,389,526	14	

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

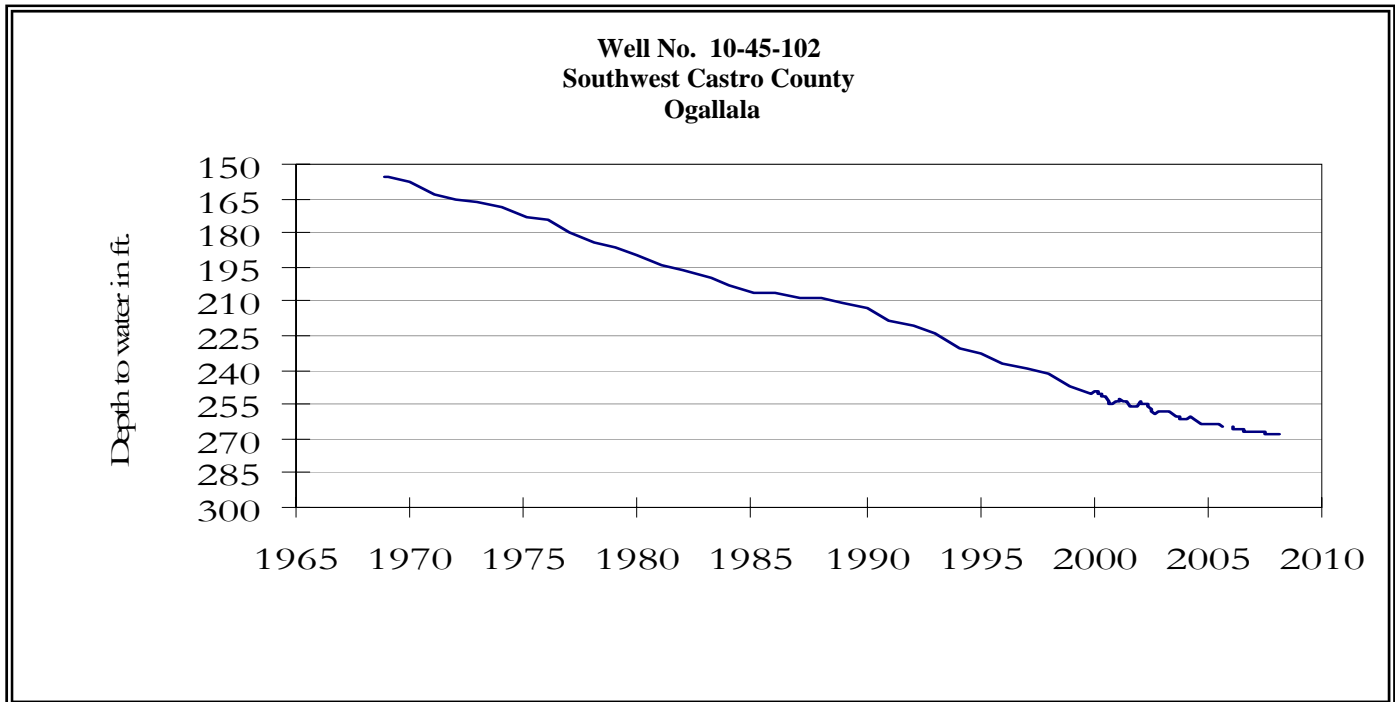
Note

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

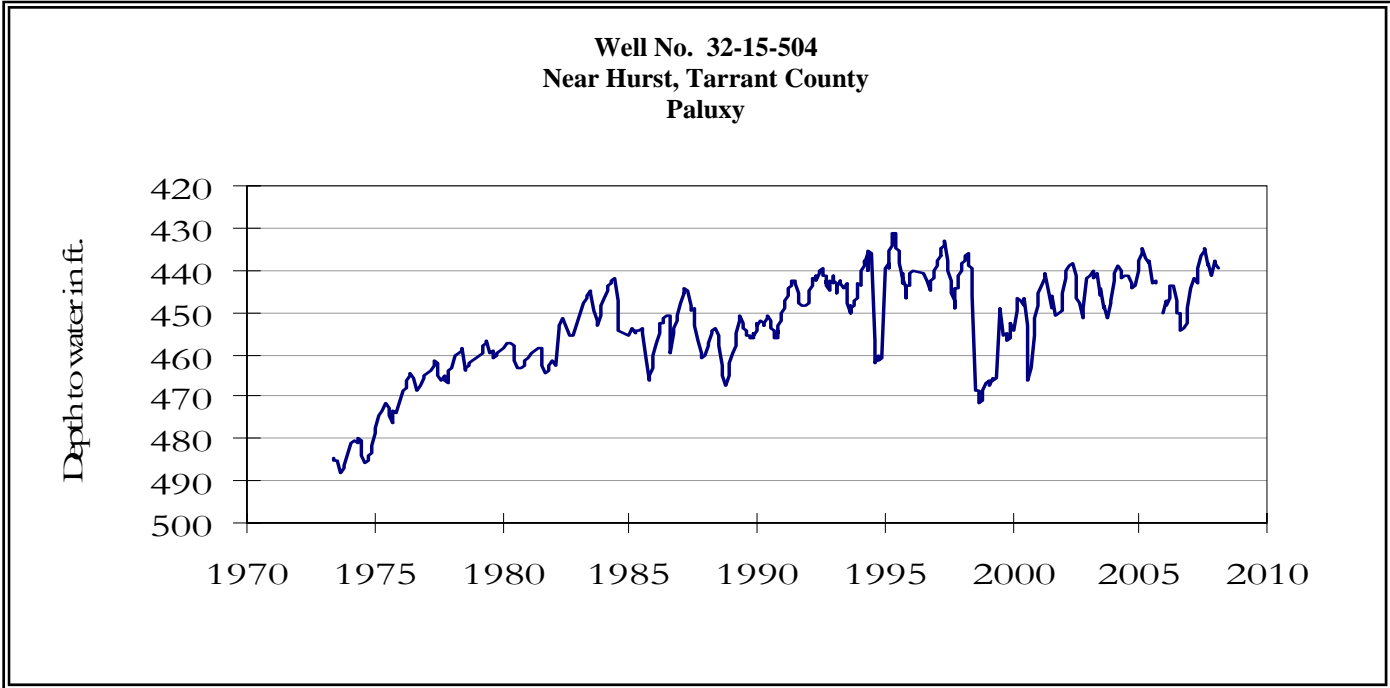
GROUND WATER LEVELS IN OBSERVATION WELLS



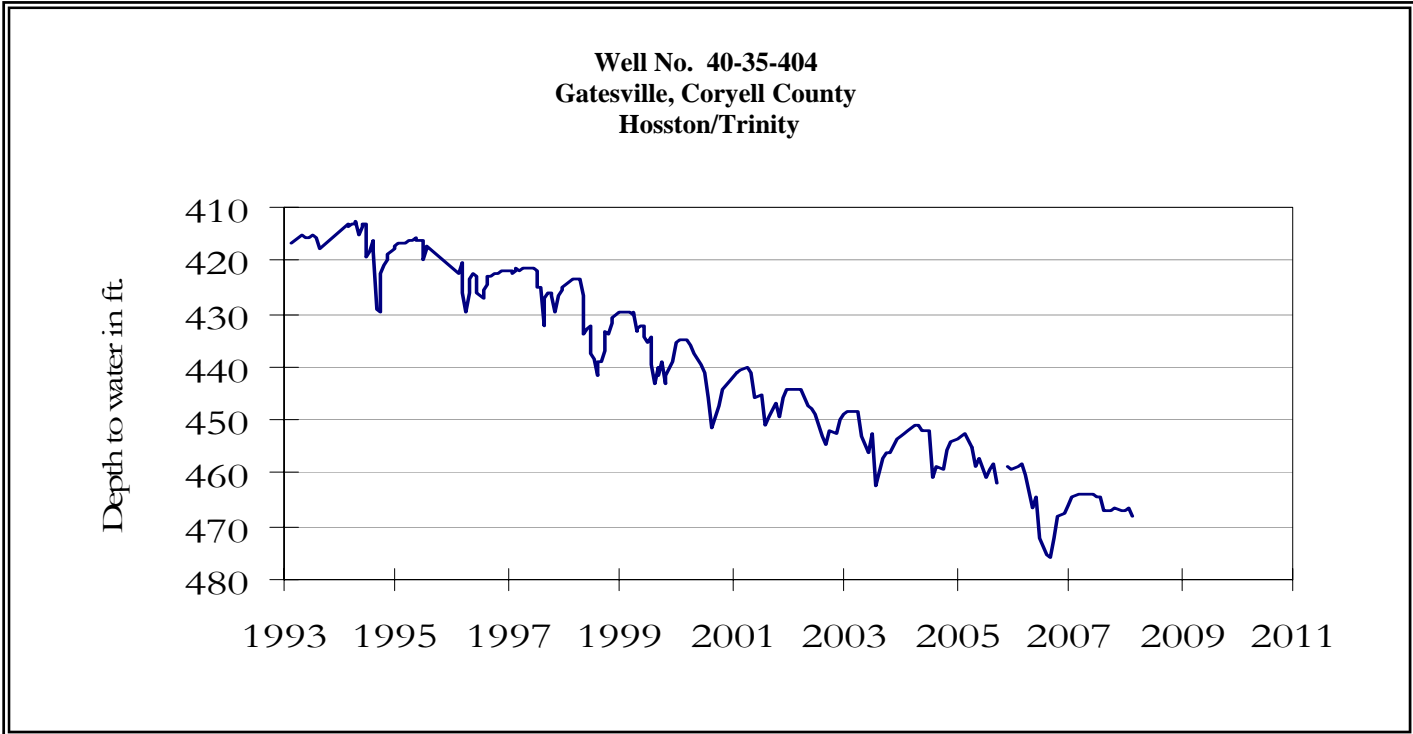
FEBRUARY GROUND WATER LEVELS IN OBSERVATION WELLS



The late February water-level measurement in this Ogallala Aquifer well, elevation 3,816 feet above sea level, was 268.05 feet below land surface. This measurement was 0.03 feet above last month's measurement, 0.94 feet below last year's measurement, and 112.05 feet below the initial measurement recorded in 1968. No water level measurements were recorded for September through December 2005.

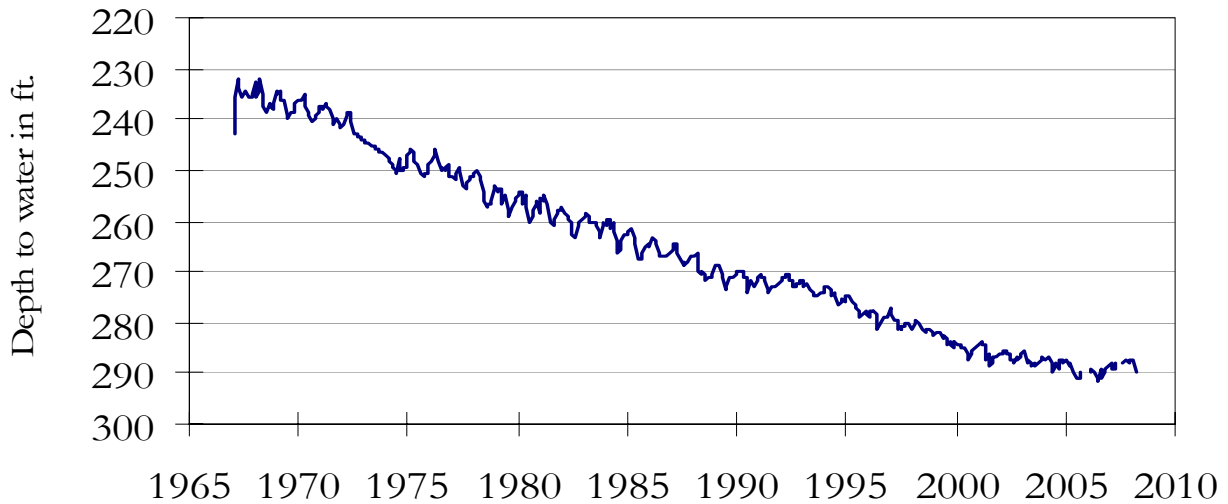


The late February water-level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 439.57 feet below land surface. This measurement was 0.19 feet above last month's measurement, 2.23 feet above last year's measurement, and 61.57 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September or October 2005.



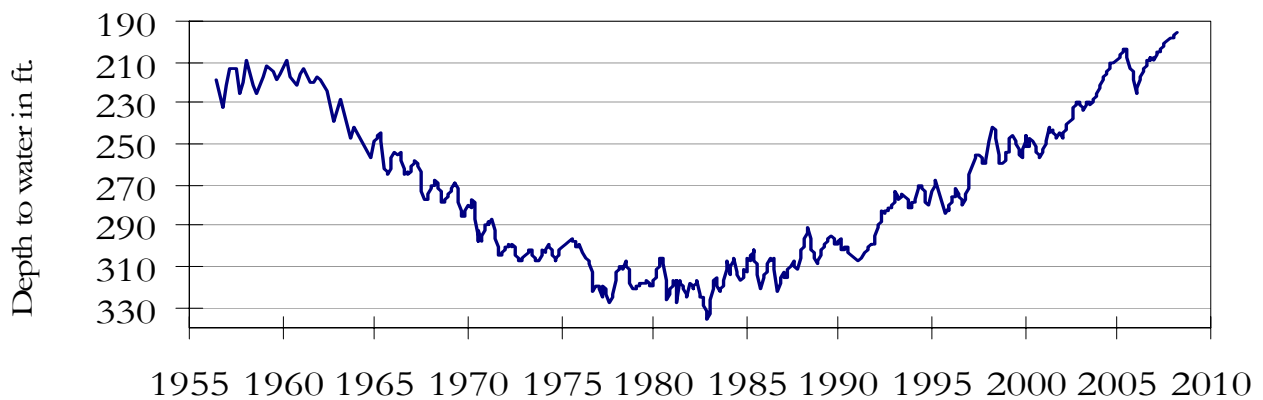
The late February water-level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 467.87 feet below land surface. This water level was 1.36 feet below last month's measurement, 3.77 feet below last year's measurement, and 175.87 feet below the initial measurement recorded in 1955. No water level measurement was recorded for October 2005.

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



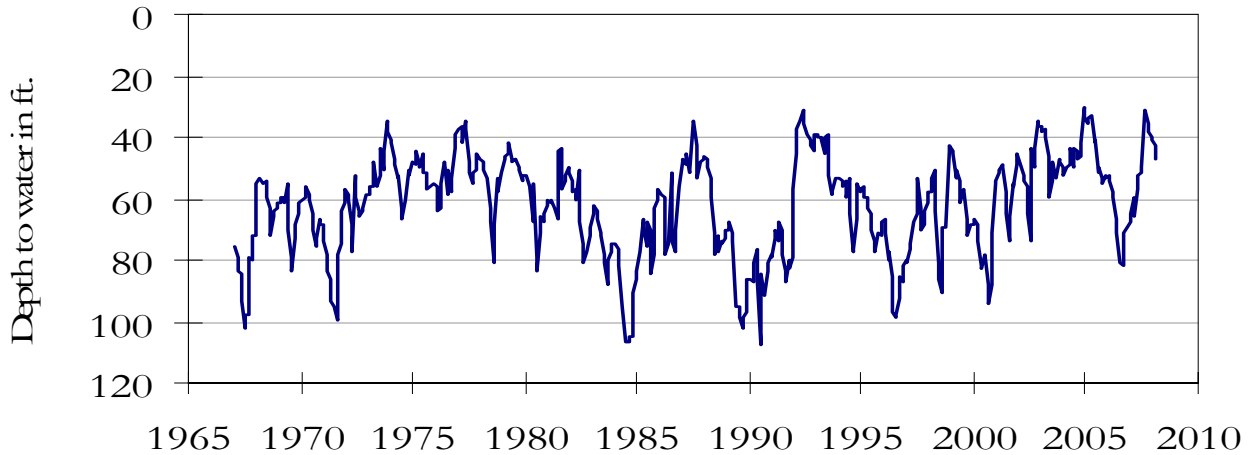
The late February water-level measurement in this Hueco Bolson Aquifer well, elevation 3,882 feet above sea level, was 289.94 feet below land surface. This water level was 2.63 feet below last month's measurement, 0.69 feet below last year's measurement, and 58.04 feet below the initial measurement in 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**



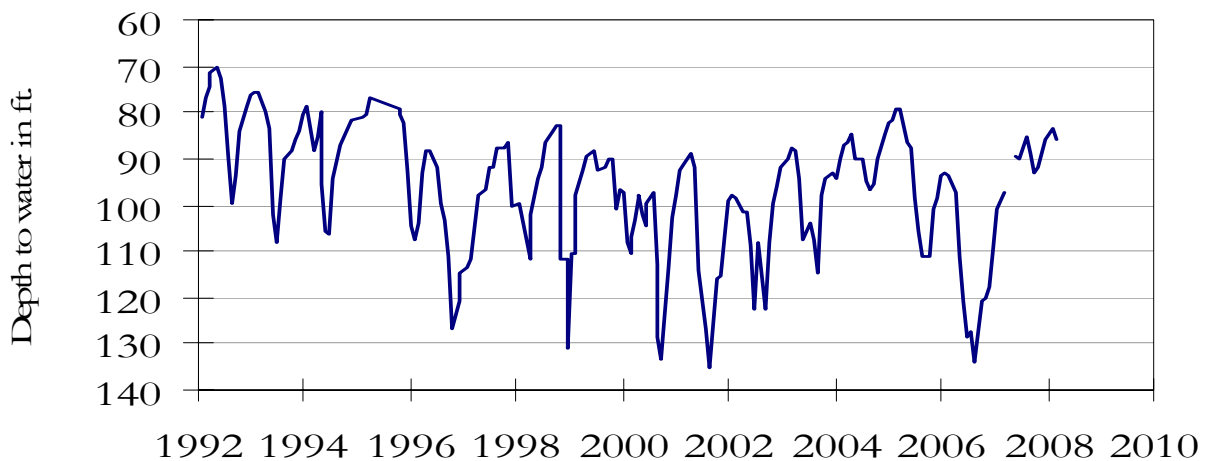
The late February water-level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level, was 195.10 feet below land surface. This was 1.07 feet above last month's measurement, 10.42 feet above last year's measurement, and 59.60 feet below the initial measurement recorded in 1947.

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



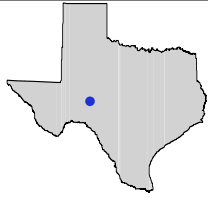
The late February water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 47.50 feet below land surface. This was 5.03 feet below last month's measurement, 18.20 feet above last year's measurement, and 0.86 feet below the initial measurement recorded in 1962.

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



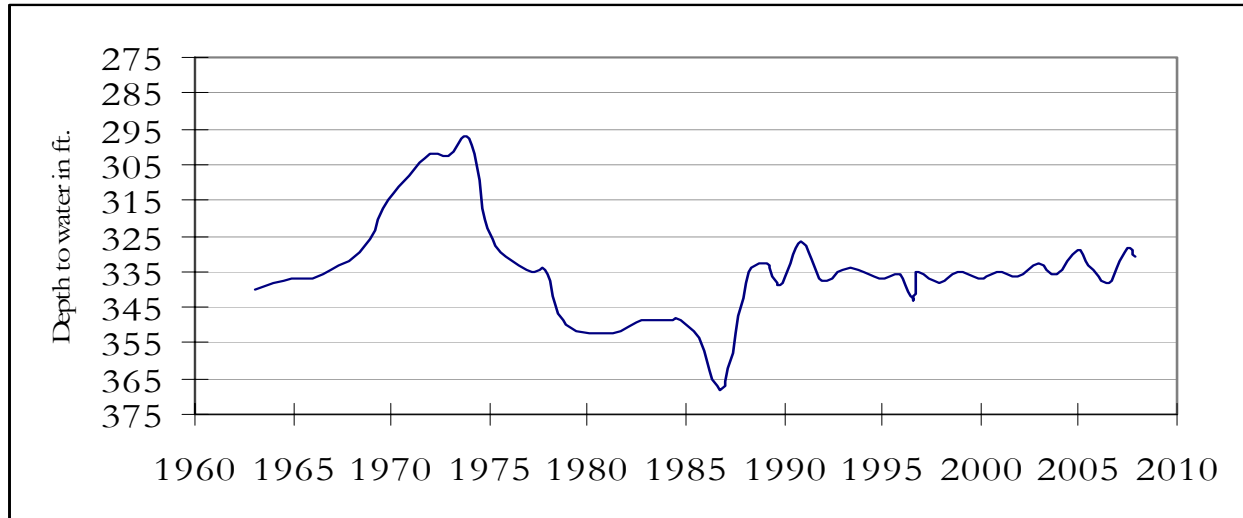
The late February water-level measurement in this Carrizo Aquifer well, elevation 446 feet above sea level, was 85.84 feet below land surface. This measurement was 2.16 feet below last month's measurement, 11.21 feet above last year's measurement, and 50.48 feet below the initial measurement recorded 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 54-23-107 Crockett County



This water level observation well, located within the city limits of Ozona, at an elevation of 2420 feet ASL, was completed in the Edwards-Trinity Plateau Aquifer. Water levels have stabilized in this municipal well since being taken out of production.

February, 2008

Water level measurements were available for all seven key monitoring wells. Water levels rose in three of the seven monitoring wells since the beginning of February, ranging from 0.03 feet in the Castro Co. Ogallala well to 1.07 feet in the Harris Co. Gulf Coast well. Water levels declined in the remaining monitoring wells, ranging from 1.36 feet in the Gatesville Trinity well to 5.03 feet in the Bexar Co. Edwards well. The J-17 well recorded a water level of 47.50 feet below land surface, 5.03 feet below last month's measurement. This water level is 33.50 feet above the Stage 1 critical management level.

*TEXAS WATER DEVELOPMENT BOARD
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