

Texas Water Development Board



WATER
AND
CONDITIONS

RESERVOIR STORAGE

January 2008

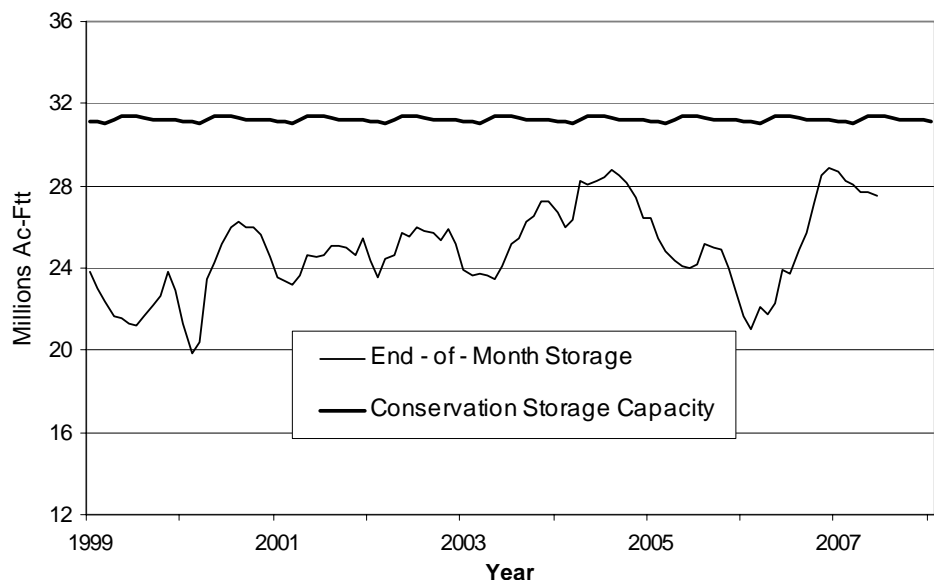
Near the end of January, the 109 reservoirs monitored for this report held 27.54 million acre-feet* in conservation storage, or 88 percent of the conservation storage capacity of the state's 175 major water supply reservoirs.

Storage was at 100% in 15 reservoirs. Four regions, East (91%), North Central (93%), Upper Coast and South Central (98%) had storage above 90% of capacity; the High Plains Region had only 9% and the Trans-Pecos Region 37%.

Regionally, storage decreased in six out of nine regions and increased in the other three regions. Compared to this time last year, storage increased in five regions and decreased in four. Statewide, storage decreased during the month by 0.18 million acre-feet, but increased nearly 3.6 million acre-feet (18%) over the past 12 months.

* 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.

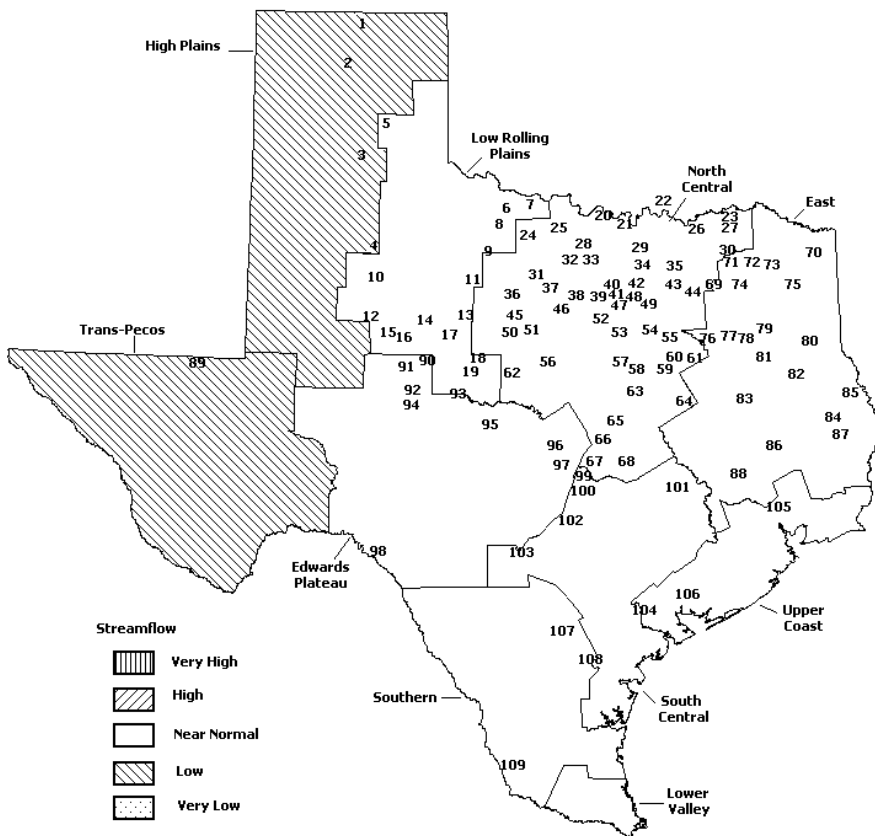
STREAMFLOW

Of 29 reporting index stations in January, computed 30-day mean flows were high (5% - 30%) at 3 stations, low (70% - 95%) at 3 stations, and near normal (30% - 70%) at the remaining 23 stations. Compared to December, flows have increased at 11 index stations and decreased at 18 stations.

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

JANUARY STREAMFLOW CONDITIONS

Reservoirs Shown on Map



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

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation Storage		Conservation Storage		Change since Late December 2008		Change since Late January 2007	
		Capacity (acre-feet)	Late Jan. (acre-feet)	2008 (%)	Late December (acre-feet)	2008 (%)	Late January (acre-feet)	2007 (%)	
HIGH PLAINS									
Palo Duro Reservoir	1	60,897	743	1	-125	0	-356	-1	
Meredith, Lake (Texas)	2	500,000	49,323	9	-1,970	0	-20,212	-4	
Meredith, Lake (Texas & Oklahoma)	(2)	779,556	49,323	6	-1,970	0	-20,212	-3	
MacKenzie Reservoir	3	46,429	7,317	15	-96	0	-566	-1	
White River Lake	4	29,880	1,332	4	-185	-1	-1,087	-4	
TOTAL		637,206	58,715	9	-2,376	0	-22,222	-3	
LOW ROLLING PLAINS									
Greenbelt Lake	5	59,500	21,910	36	11	0	3,159	5	
*Electra, Lake	6	5,626	1,704	30	-60	-1	1,059	19	
N. Fork Buffalo Crk Reservoir	7	15,400	4,829	31	-173	-1	2,090	14	
Kemp, Lake	8	245,308	245,308	100	0	0	41,380	17	
Millers Creek Reservoir	9	27,888	22,930	82	-487	-2	3,581	13	
Alan Henry Reservoir	10	94,808	91,281	96	-736	-1	-3,473	-4	
Stamford, Lake	11	51,570	49,587	96	-991	-2	16,695	32	
J B Thomas, Lake	12	199,931	25,258	12	-1,032	-1	-3,190	-2	
Fort Phantom Hill, Lake	13	70,030	64,971	92	-2,054	-3	28,372	41	
Sweetwater, Lake	14	10,006	7,535	75	68	1	7,535	75	
Colorado City, Lake	15	31,793	26,941	84	-470	-1	3,801	12	
Champion Creek Reservoir	16	41,618	9,395	22	-57	0	5,096	12	
Abilene, Lake	17	6,099	5,540	90	-98	-2	3,164	52	
Coleman, Lake	18	38,076	34,747	91	-403	-1	7,211	19	
Hords Creek Lake	19	5,684	4,738	83	-135	-2	2,594	46	
TOTAL		903,337	616,674	68	-6,617	-1	119,074	13	
NORTH CENTRAL									
Farmers Creek Reservoir (Nocona)	20	21,445	19,144	89	-408	-2	4,487	21	
Hubert H Moss Lake	21	24,058	22,489	93	-94	0	613	3	
Texoma, Lake (Texas)	22	1,209,709	1,174,703	97	-38,030	-3	-55,413	-5	
Texoma, Lake (Texas & Oklahoma)	(22)	2,419,418	2,349,406	97	-76,061	-3	-110,825	-5	
*Pat Mayse Lake	23	118,100	117,866	99	-234	0	4,080	3	
Kickapoo, Lake	24	85,825	59,663	69	-1,476	-2	6,814	8	
Arrowhead, Lake	25	235,997	206,134	87	-2,737	-1	42,296	18	
Bonham, Lake	26	11,026	9,801	88	-258	-2	-1,225	-11	
Crook, Lake	27	9,195	8,905	96	-238	-3	-197	-2	
Amon G Carter, Lake	28	19,903	17,973	90	-348	-2	6,664	33	
*Ray Roberts, Lake	29	798,758	780,205	97	-7,193	-1	167,445	21	
Jim Chapman Lake (Cooper)	30	295,787	289,627	97	-6,160	-2	132,387	45	
Graham, Lake	31	45,260	38,490	85	-668	-1	4,589	10	
*Lost Creek Reservoir	32	11,950	11,227	93	-110	-1	562	5	
Bridgeport, Lake	33	366,236	318,412	86	-10,472	-3	128,893	35	
*Lewisville Lake	34	543,988	516,713	94	-11,316	-2	128,064	24	
Lavon Lake	35	443,844	377,574	85	-2,309	-1	84,263	19	
Hubbard Creek Reservoir	36	318,067	277,988	87	-3,639	-1	133,086	42	
Possum Kingdom Lake	37	540,340	514,796	95	162	0	13,984	3	
*Mineral Wells, Lake	38	7,065	6,043	85	-77	-1	1,423	20	
Weatherford, Lake	39	18,645	15,841	84	-203	-1	6,044	32	
Eagle Mountain Lake	40	182,500	161,275	88	727	0	47,561	26	
Worth, Lake	41	24,500	21,367	87	-169	-1	6,026	25	
Grapevine Lake	42	164,702	153,878	93	-2,946	-2	52,096	32	
Ray Hubbard, Lake	43	452,040	448,733	99	-3,307	-1	27,506	6	
New Terrell City Lake	44	8,583	8,311	96	-26	0	3,166	37	
Daniel, Lake	45	9,435	7,674	81	-118	-1	7,495	79	
Palo Pinto, Lake	46	27,150	21,548	79	-760	-3	9,734	36	
Benbrook Lake	47	85,648	81,435	95	-4,213	-5	4,279	5	
Arlington, Lake	48	38,740	32,907	84	-2,550	-7	-5,586	-14	

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 December 2008		Change since Late January 2007		
			Late Jan. (acre-feet)	2008 (%)	(acre-feet)	(%)	(acre-feet)	(%)	
NORTH CENTRAL (Continued)									
Joe Pool Lake	49	142,861	134,401	94	289	0	-8,460	-6	
*Cisco, Lake	50	26,000	21,030	80	-240	-1	9,320	36	
Leon, Lake	51	26,421	24,471	92	-370	-1	7,558	29	
Granbury, Lake	52	128,046	118,740	92	804	1	-5,002	-4	
Pat Cleburne, Lake	53	25,730	24,377	94	46	0	-1,353	-5	
Waxahachie, Lake	54	10,779	10,372	96	356	3	-407	-4	
Bardwell Lake	55	46,122	45,039	97	-309	-1	-1,083	-2	
Proctor Lake	56	55,457	54,255	97	-89	0	29,082	52	
Whitney, Lake	57	553,349	418,324	75	-12,848	-2	19,369	4	
Aquilla Lake	58	45,092	41,870	92	-643	-1	14,719	33	
Navarro Mills Lake	59	55,817	51,317	91	-535	-1	26,983	48	
*Halbert, Lake	60	6,033	4,773	79	-67	-1	2,911	48	
Richland-Chambers Reservoir	61	1,103,816	1,036,261	93	-5,698	-1	201,108	18	
*Brownwood, Lake	62	131,429	121,488	92	-1,317	-1	29,207	22	
Waco, Lake	62	198,943	198,943	100	0	0	76,617	39	
Limestone, Lake	64	208,015	185,954	89	-1,782	-1	-20,597	-10	
Belton Lake	65	435,225	435,225	100	0	0	73,774	17	
Stillhouse Hollow Lake	66	227,771	227,771	100	0	0	14,908	7	
Georgetown, Lake	67	36,823	33,895	92	-1,481	-4	14,012	38	
Granger Lake	68	52,525	52,525	100	0	0	0	0	
Tawakoni, Lake	69	888,126	817,319	92	-5,428	-1	205,077	23	
TOTAL		10,522,876	9,779,072	93	-128,482	-1	1,648,877	16	
EAST									
Wright Patman Lake	70	122,593	122,593	100	0	0	0	0	
*Sulphur Springs, Lake	71	17,838	16,999	95	-164	-1	-839	-5	
Cypress Springs, Lake	72	67,689	66,964	98	-725	-1	6,854	10	
Bob Sandlin, Lake	73	200,579	193,923	96	0	0	55,702	28	
Fork Reservoir, Lake	74	604,927	598,063	98	1,848	0	42,976	7	
O the Pines, Lake	75	238,933	238,933	100	0	0	-16,323	-7	
Cedar Creek Reservoir in Trinity	76	644,686	608,488	94	-5,977	-1	27,698	4	
Athens, Lake	77	29,435	29,435	100	0	0	2,535	9	
Palestine, Lake	78	370,907	369,603	99	-1,304	0	-1,304	0	
Tyler, Lake	79	73,256	70,455	96	184	0	15,418	21	
Murvaul, Lake	80	38,284	34,990	91	701	2	-3,294	-9	
Jacksonville, Lake	81	30,300	30,300	100	0	0	0	0	
Nacogdoches, Lake	82	39,521	36,339	91	430	1	-2,926	-7	
Houston County Lake	83	17,113	17,113	100	254	1	0	0	
Sam Rayburn Reservoir	84	2,857,077	2,301,009	80	3,012	0	-556,068	-19	
Toledo Bend Reservoir (Texas)	85	2,236,450	1,931,976	86	18,963	1	-284,759	-13	
Toledo Bend Reservoir (TX & LA)	(85)	4,472,900	3,863,952	86	37,926	1	-569,519	-13	
*Livingston, Lake	86	1,741,867	1,741,867	100	0	0	0	0	
B A Steinhagen Lake	87	66,966	60,514	90	-101	0	59,799	89	
Conroe, Lake	88	416,188	412,875	99	8,575	2	-3,313	-1	
TOTAL		9,814,609	8,882,439	91	25,696	0	-657,845	-7	
TRANS-PECOS									
Red Bluff Reservoir	89	289,670	107,620	37	3,133	1	-697	0	
TOTAL		289,670	107,620	37	3,133	1	-697	0	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

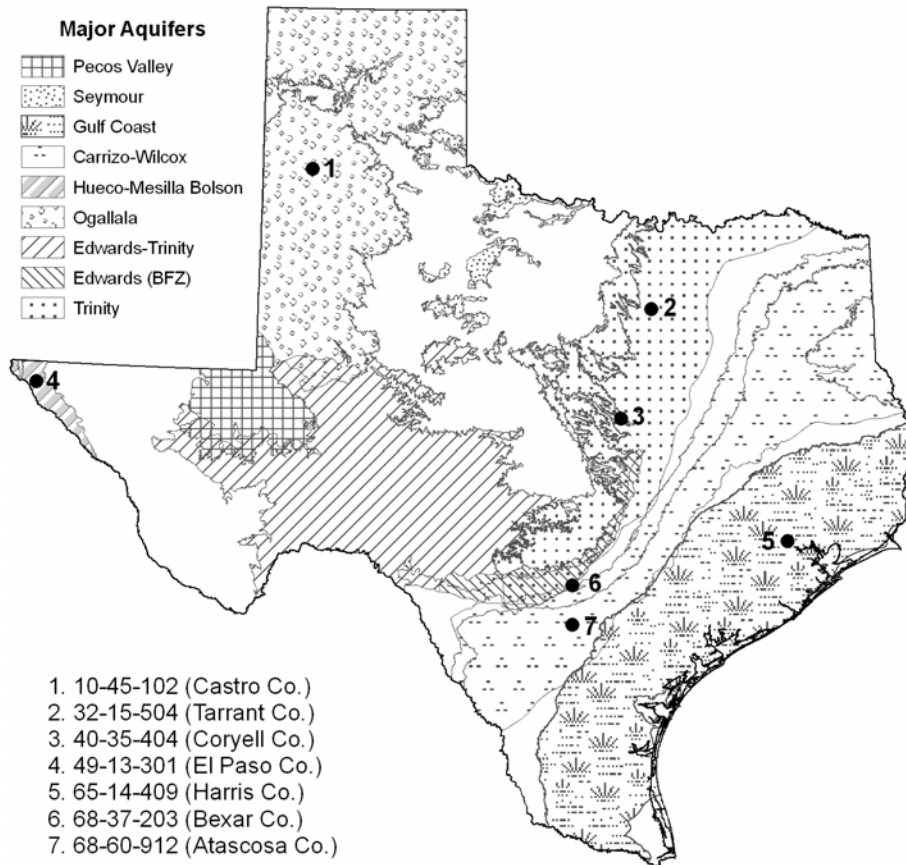
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage		Change since Late December 2008		Change since Late January 2007		
			Late Jan. (acre-feet)	2008 (%)	(acre-feet)	(%)	(acre-feet)	(%)	
EDWARDS PLATEAU									
Oak Creek Reservoir	90	39,260	38,069	96	-160	0	31,253	80	
E V Spence Reservoir	91	517,272	73,889	14	-1,705	0	5,731	1	
O C Fisher Lake	92	79,483	0	0	0	0	0	0	
*O H Ivie Reservoir	93	554,335	370,821	66	-730	0	151,782	27	
Twin Buttes Reservoir	94	177,850	69,599	39	2,491	1	-16,890	-9	
Brady Creek Reservoir	95	29,110	15,502	53	-178	-1	2,823	10	
Buchanan, Lake	96	885,507	844,727	95	4,792	1	376,600	43	
Lyndon B Johnson, Lake	97	113,690	85,090	74	-27,635	-24	-28,150	-25	
*Amistad Reservoir (Texas)	98	1,840,849	2,269,000	123	5,000	0	420,000	23	
*Amistad Reservoir (TX & Mexico)	(98)	3,275,532	2,834,000	87	9,000	0	265,000	8	
TOTAL		4,237,356	3,766,697	89	-18,125	0	943,150	22	
SOUTH CENTRAL									
Travis, Lake	99	1,113,902	1,113,902	100	8,149	1	512,078	46	
*Austin, Lake	100	21,804	6,925	31	-14,077	-65	-8,235	-38	
Somerville Lake	101	147,104	147,104	100	747	1	0	0	
Canyon Lake	102	378,781	378,781	100	0	0	48,960	13	
Medina Lake	103	254,823	240,310	94	-11,197	-4	148,538	58	
*Coletto Creek Reservoir	104	31,040	30,969	99	352	1	-71	0	
TOTAL		1,947,454	1,917,991	98	-16,026	-1	701,269	36	
UPPER COAST									
Houston, Lake	105	128,863	128,863	100	0	0	0	0	
Texana, Lake	106	153,246	147,746	96	4,732	3	-5,500	-4	
TOTAL		282,109	276,609	98	4,732	2	-5,500	-2	
SOUTHERN									
Choke Canyon Reservoir	107	695,262	670,668	96	-18,131	-3	153,841	22	
Corpus Christi, Lake	108	256,961	255,696	99	3,072	1	137,445	53	
*Falcon Reservoir (Texas)	109	1,551,034	1,206,000	78	-32,000	-2	568,000	37	
*Falcon Reservoir (TX & Mexico)	(109)	2,646,817	1,435,000	54	-328,000	-12	358,000	14	
TOTAL		2,503,257	2,132,364	85	-47,059	-2	859,287	34	
STATE TOTAL		31,137,874	27,538,181	88	-185,124	-1	3,585,393	12	

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

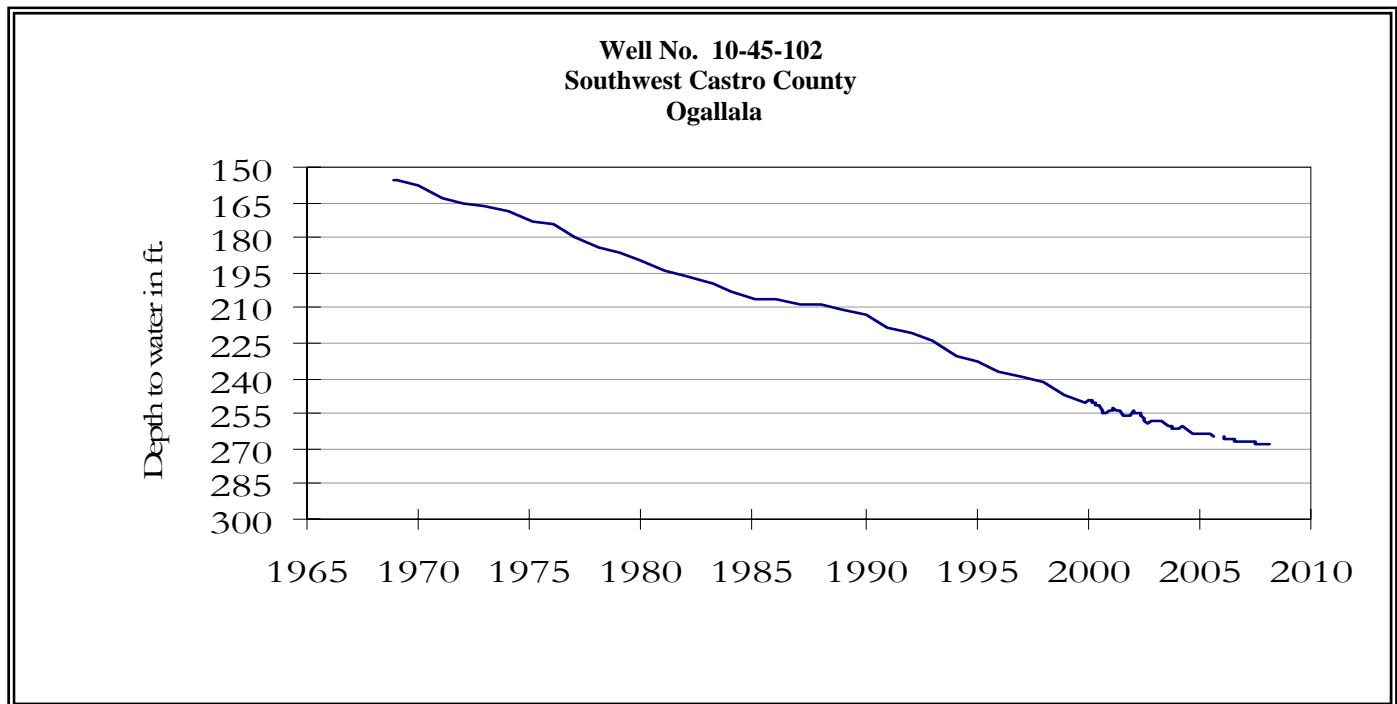
Note

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

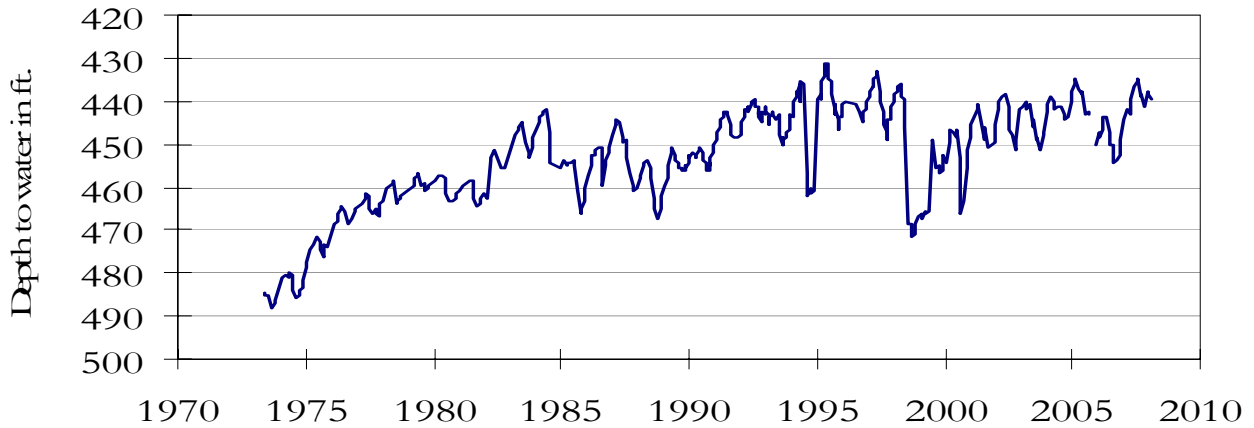


JANUARY GROUND WATER LEVELS IN OBSERVATION WELLS



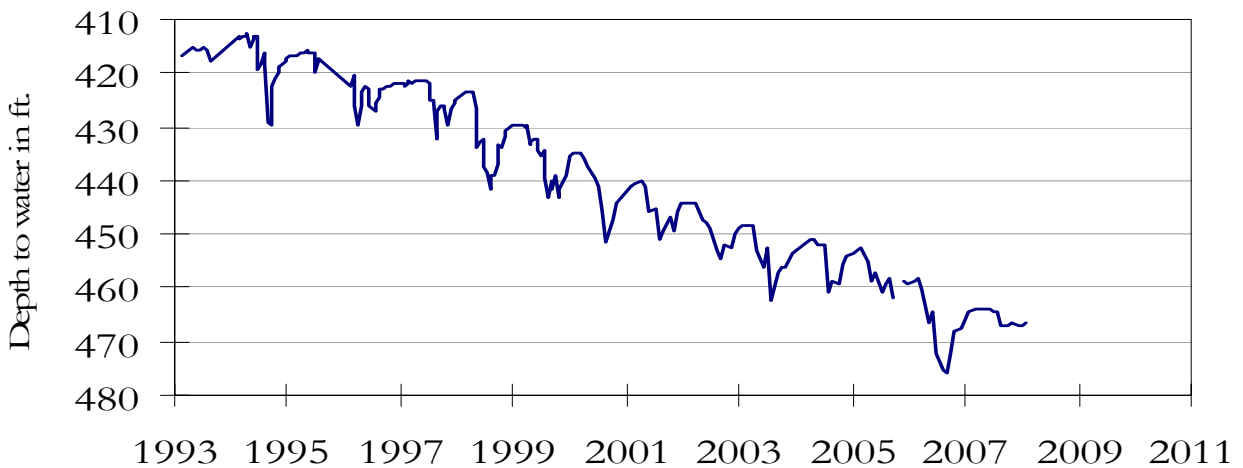
The late January water-level measurement in this Ogallala Aquifer well, elevation 3,816 feet above sea level, was 268.08 feet below land surface. This measurement was 0.12 feet above last month's measurement, 1.01 feet below last year's measurement, and 112.08 feet below the initial measurement recorded in 1968. No water level measurements were recorded for September through December 2005.

Well No. 32-15-504
Near Hurst, Tarrant County
Paluxy



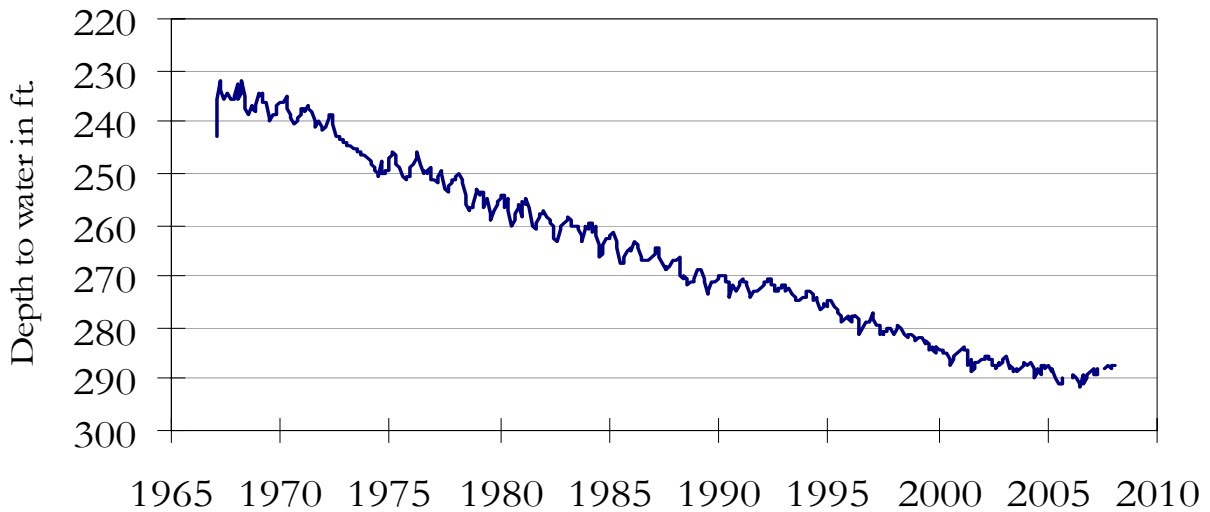
The late January water-level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 439.76 feet below land surface. This measurement was 1.11 feet below last month's measurement, 1.96 feet above last year's measurement, and 61.76 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September or October 2005.

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



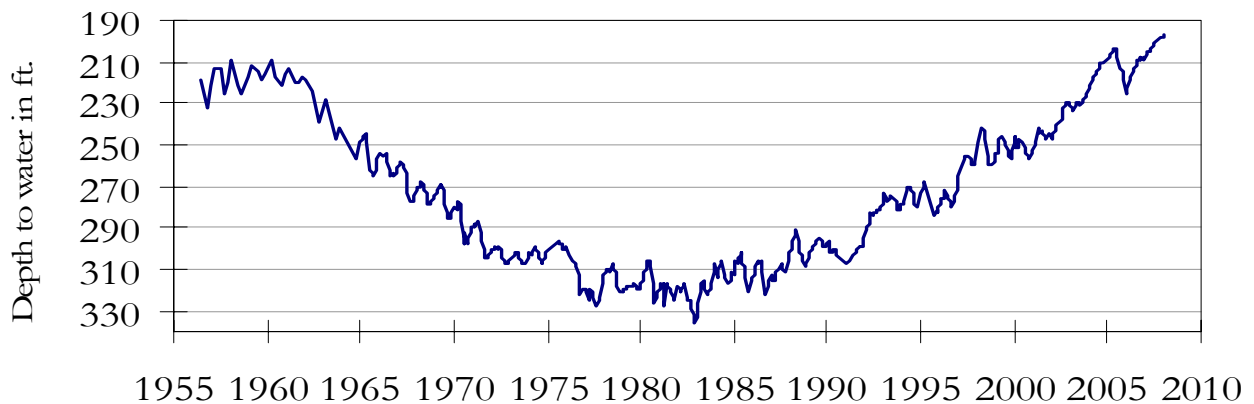
The late January water-level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 466.51 feet below land surface. This water level was 0.28 feet above last month's measurement, 1.85 feet below last year's measurement, and 174.51 feet below the initial measurement recorded in 1955. No water level measurement was recorded for October 2005.

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



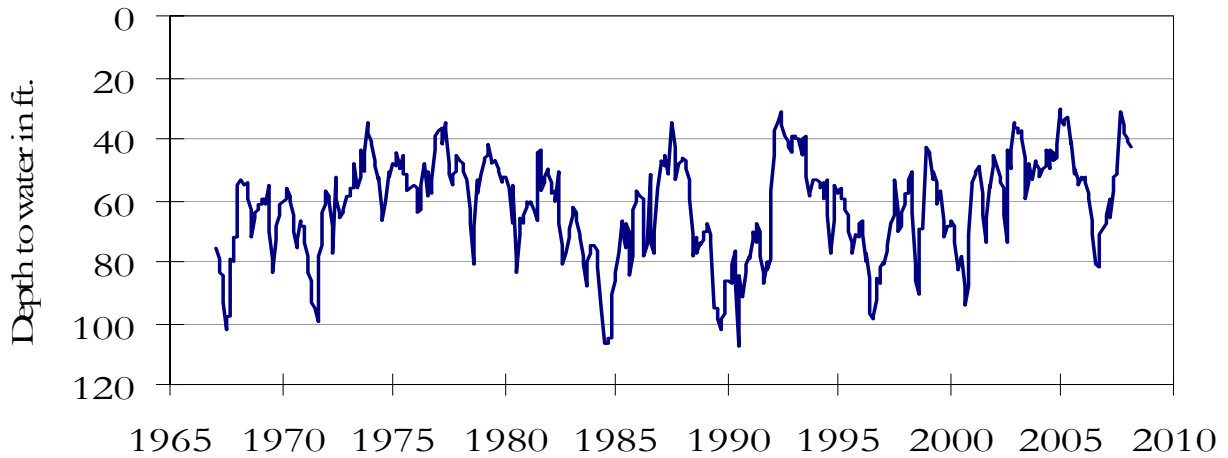
The late January water-level measurement in this Hueco Bolson Aquifer well, elevation 3,882 feet above sea level, was 287.31 feet below land surface. This water level was 0.34 feet above last month's measurement, 0.79 feet above last year's measurement, and 55.41 feet below the initial measurement in 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**



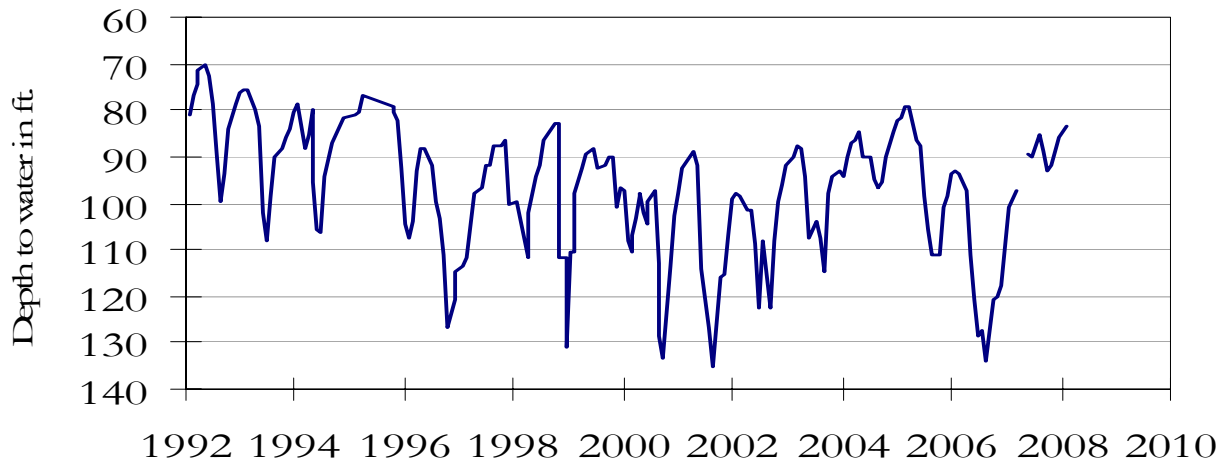
The late January water-level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level, was 196.17 feet below land surface. This was 0.99 feet above last month's measurement, 10.82 feet above last year's measurement, and 60.67 feet below the initial measurement recorded in 1947.

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



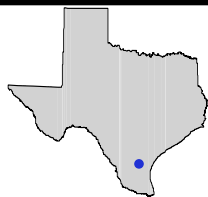
The late January water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 42.47 feet below land surface. This was 1.67 feet below last month's measurement, 17.03 feet above last year's measurement, and 4.17 feet above the initial measurement recorded in 1962.

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



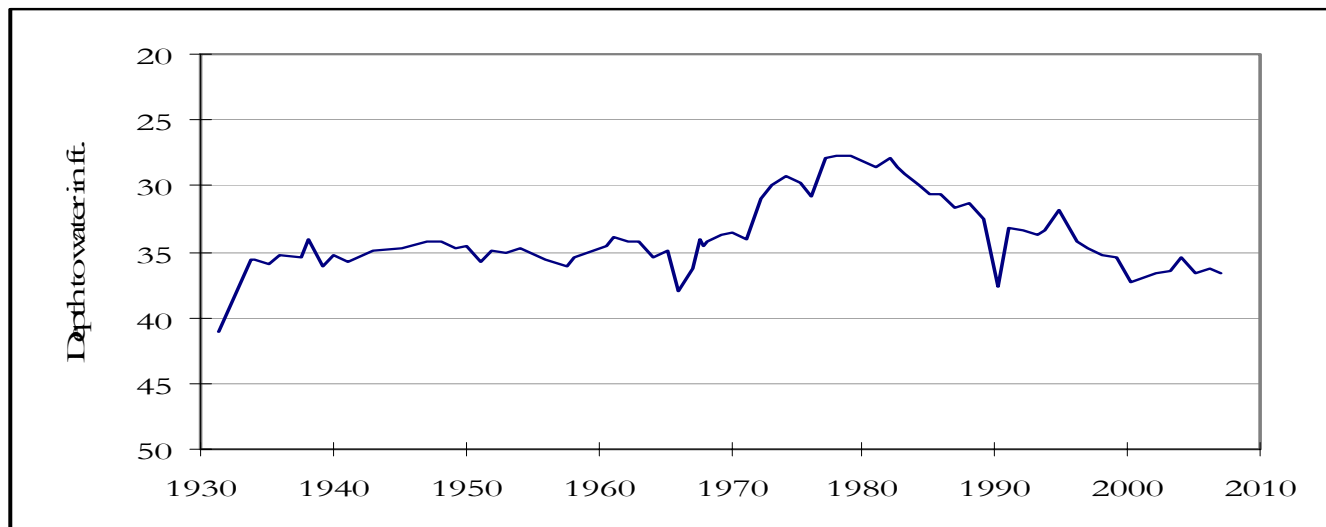
The late January water-level measurement in this Carrizo Aquifer well, elevation 446 feet above sea level, was 83.68 feet below land surface. This measurement was 2.15 feet above last month's measurement, 17.11 feet above last year's measurement, and 48.32 feet below the initial measurement recorded 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 84-22-801 Duval County



This water level observation well, located 10 miles southwest of San Diego, at an elevation of 320 feet ASL, was completed in the Gulf Coast Aquifer. A slight rise in levels in this unused well from approximately 1970 to 2000 could reflect a slight decrease in pumpage in nearby wells due to any number of reasons.

January, 2008

Water level measurements were available for all seven key monitoring wells. Water levels rose in five of the seven monitoring wells since the beginning of January, ranging from 0.12 feet in the Castro Co. Ogallala well to 2.15 feet in the Atascosa Co. Carrizo well. Water levels declined in the remaining monitoring wells, ranging from 1.11 feet in the Tarrant Co. Trinity well to 1.67 feet in the Bexar Co. Edwards well. The J-17 well recorded a water level of 42.47 feet below land surface, 1.67 feet below last month's measurement. This water level is 38.53 feet above the Stage 1 critical management level.

TEXAS WATER DEVELOPMENT BOARD

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