

Texas Water Development Board



WATER Conditions

RESERVOIR STORAGE

May 2008

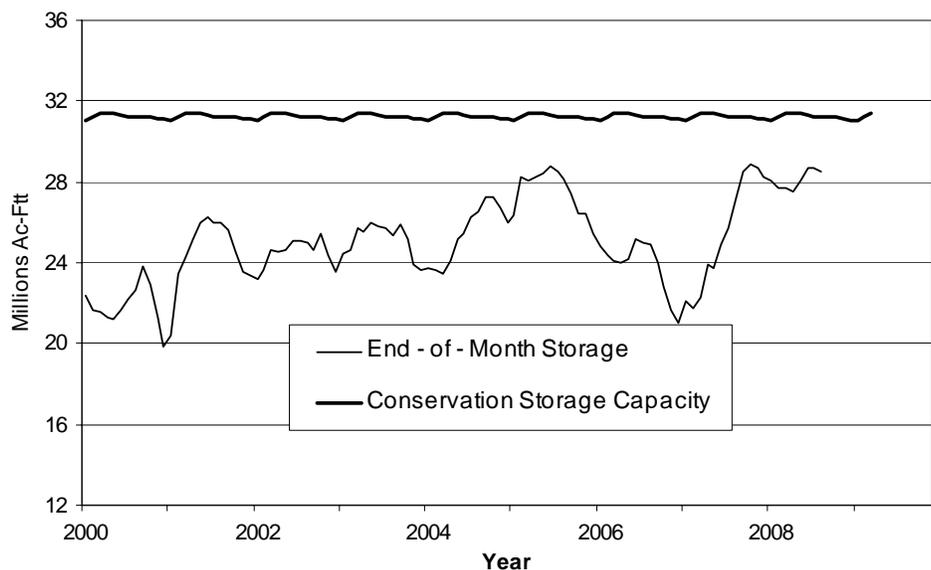
Near the end of May, the 109 reservoirs monitored for this report were 91* percent full, on average, holding 28.52 million acre-feet in conservation storage.

Storage was at 100% in 37 reservoirs. Four regions, East and North Central Regions (98%), South Central Region (93%), and Upper Coast Region (91%) had storage at or above 90% of capacity; however, the High Plains Region (7%) and the Trans-Pecos Region (31%) remain very low.

Regionally, the storage decreased in seven out of nine regions and increased in other two regions. Compared to this time last year, storage increased in five regions and decreased in four. State total storage went down 0.2 million acre-feet during the month but gained nearly 1.4 million acre-feet over the past 12 months.

* Only the Texas share of storage in border reservoirs 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.

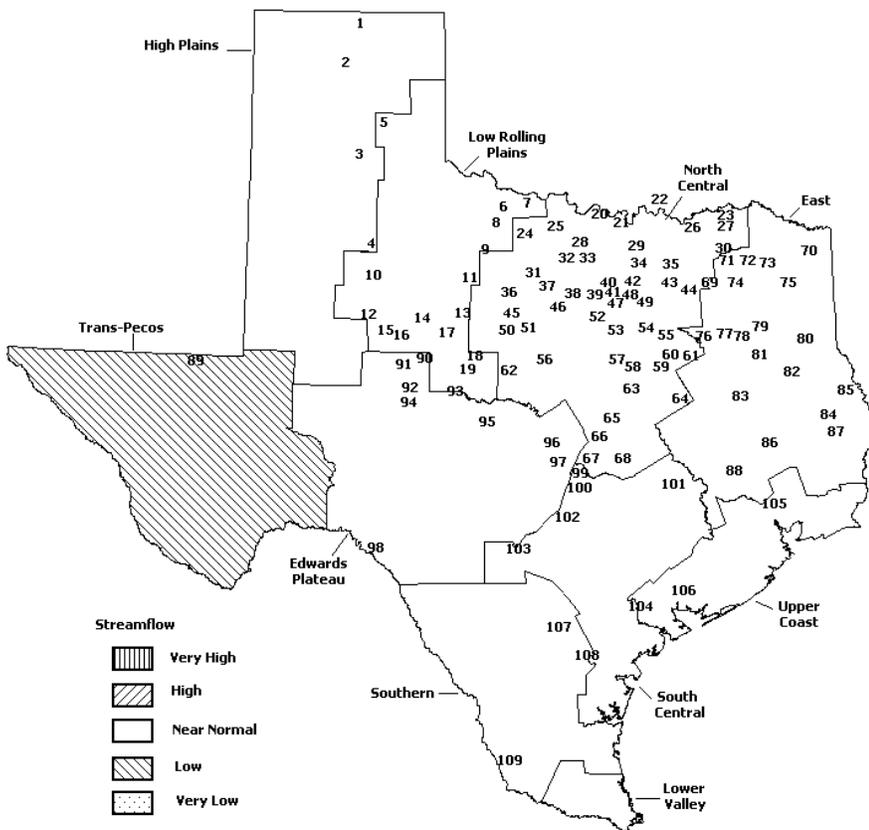
STREAMFLOW

Of 29 reporting index stations in May, computed 30-day mean flows were very high (<5%) at 1 station, high (5% - 30%) at 5 stations, low (70% - 95%) at 7 stations, and near normal (30% - 70%) at the remaining 16 stations. Compared to April, flows have increased at 11 index stations, decreased at 17 stations, and remain unchanged at 1 station.

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

MAY 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		Change since Late Aprilr		Change since Late May		
		Capacity (acre-feet)	Late May (acre-feet)	2008 (%)	2008 (%)	2007 (acre-feet)	2007 (%)	
HIGH PLAINS								
Palo Duro Reservoir	1	60,897	380	0	-113	0	-2,287	-4
Meredith, Lake (Texas)	2	500,000	36,019	7	-4,337	-1	-41,792	-8
Meredith, Lake (Texas & Oklahoma)	(2)	779,556	36,019	4	-4,337	-1	-41,792	-5
MacKenzie Reservoir	3	46,429	6,811	14	-228	0	-1,627	-4
White River Lake	4	29,880	868	2	360	1	-1,988	-7
TOTAL		637,206	44,078	7	-4,318	-1	-47,694	-7
LOW ROLLING PLAINS								
Greenbelt Lake	5	59,500	20,943	35	-657	-1	-3,633	-6
*Electra, Lake	6	5,626	1,684	29	-49	-1	914	16
N. Fork Buffalo Crk Reservoir	7	15,400	4,672	30	172	1	1,382	9
Kemp, Lake	8	245,308	245,308	100	0	0	19,126	8
Millers Creek Reservoir	9	27,888	21,357	76	-151	-1	1,401	5
Alan Henry Reservoir	10	94,808	90,258	95	-236	0	-4,550	-5
Stamford, Lake	11	51,570	44,984	87	-1,123	-2	-3,017	-6
J B Thomas, Lake	12	199,931	18,724	9	-2,335	-1	-15,230	-8
Fort Phantom Hill, Lake	13	70,030	69,259	98	1,579	2	17,173	25
Sweetwater, Lake	14	10,006	9,244	92	1,568	16	9,244	92
Colorado City, Lake	15	31,793	25,211	79	-596	-2	-455	-1
Champion Creek Reservoir	16	41,618	9,098	21	-191	0	3,389	8
Abilene, Lake	17	6,099	5,695	93	-161	-3	3,178	52
Coleman, Lake	18	38,076	34,083	89	-997	-3	-2,397	-6
Hords Creek Lake	19	5,684	4,272	75	-259	-5	1,078	19
TOTAL		903,337	604,792	67	-3,436	0	27,603	3
NORTH CENTRAL								
Nocona, Lake (Farmers Crk)	20	21,445	20,426	95	-78	0	-1,019	-5
Hubert H Moss Lake	21	24,058	24,058	100	182	1	0	0
Texoma, Lake (Texas)	22	1,334,294	1,298,922	97	113,234	8	113,234	8
Texoma, Lake (Texas & Oklahoma)	(22)	2,668,589	2,597,844	97	226,468	8	226,468	8
*Pat Mayse Lake	23	118,100	118,100	100	0	0	0	0
Kickapoo, Lake	24	85,825	55,850	65	-94	0	1,667	2
Arrowhead, Lake	25	235,997	198,671	84	-4,798	-2	22,642	10
Bonham, Lake	26	11,026	11,026	100	0	0	0	0
Crook, Lake	27	9,195	9,091	98	0	0	-104	-1
Amon G Carter, Lake	28	19,903	19,641	98	-262	-1	-262	-1
Ray Roberts, Lake	29	798,758	798,758	100	0	0	58,021	7
Jim Chapman Lake (Cooper)	30	260,332	260,332	100	0	0	95,043	37
Graham, Lake	31	45,260	45,186	99	0	0	1,927	4
*Lost Creek Reservoir	32	11,950	11,861	99	-89	-1	-89	-1
Bridgeport, Lake	33	366,236	366,236	100	0	0	52,897	14
Lewisville Lake	34	543,988	543,988	100	0	0	0	0
Lavon Lake	35	443,844	443,844	100	0	0	0	0
Hubbard Creek Reservoir	36	318,067	308,432	96	-3,358	-1	134,912	42
Possum Kingdom Lake	37	540,340	517,713	95	-3,728	-1	-5,998	-1
*Mineral Wells, Lake	38	7,065	6,748	95	-317	-4	-317	-4
Weatherford, Lake	39	18,645	18,344	98	-231	-1	-301	-2
Eagle Mountain Lake	40	182,500	182,500	100	0	0	0	0
Worth, Lake	41	24,500	22,007	89	-2,493	-10	-2,493	-10
Grapevine Lake	42	164,702	164,702	100	0	0	0	0
Ray Hubbard, Lake	43	452,040	452,040	100	0	0	0	0
New Terrell City Lake	44	8,583	8,583	100	0	0	466	5
Daniel, Lake	45	9,435	9,435	100	0	0	5,267	56
Palo Pinto, Lake	46	27,150	25,447	93	-1,059	-4	-1,703	-6
Benbrook Lake	47	85,648	85,648	100	0	0	0	0
Arlington, Lake	48	38,740	38,341	98	-399	-1	-399	-1

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 Aprilr 2008		Change since Late May 2007	
			Late May (acre-feet)	2008 (%)	(acre-feet)	(%)	(acre-feet)	(%)
NORTH CENTRAL (Continue)								
Joe Pool Lake	49	142,861	142,861	100	0	0	0	0
*Cisco, Lake	50	26,000	21,099	81	-346	-1	8,380	32
Leon, Lake	51	26,421	25,847	97	-574	-2	-574	-2
Granbury, Lake	52	128,046	124,119	96	302	0	-1,662	-1
Pat Cleburne, Lake	53	25,730	25,448	98	-282	-1	-282	-1
Waxahachie, Lake	54	10,779	10,779	100	0	0	0	0
Bardwell Lake	55	46,122	46,122	100	0	0	0	0
Proctor Lake	56	55,457	54,166	97	-1,291	-2	-1,291	-2
Whitney, Lake	57	553,349	518,173	93	-35,176	-6	-35,176	-6
Aquilla Lake	58	45,092	44,403	98	-689	-2	-689	-2
Navarro Mills Lake	59	55,817	55,817	100	0	0	0	0
*Halbert, Lake	60	6,033	5,563	92	63	1	313	5
Richland-Chambers Reservoir	61	1,103,816	1,102,994	99	-822	0	-822	0
*Brownwood, Lake	62	131,429	120,045	91	-4,265	-3	-11,384	-9
Waco, Lake	62	198,943	198,943	100	0	0	0	0
Limestone, Lake	64	208,015	207,527	99	-122	0	-488	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	29,432	79	-456	-1	-7,391	-20
Granger Lake	68	52,525	52,525	100	0	0	0	0
Tawakoni, Lake	69	888,126	888,126	100	0	0	147,052	17
TOTAL		10,612,006	10,402,915	98	52,852	0	569,379	5
EAST								
Wright Patman Lake	70	307,973	307,973	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	1,036	2
Bob Sandlin, Lake	73	200,579	200,579	100	0	0	62,504	31
Fork Reservoir, Lake	74	604,927	604,927	100	4,488	1	15,047	2
O the Pines, Lake	75	267,672	267,672	100	28,739	11	28,739	11
Cedar Creek Reservoir in Trinity	76	644,686	644,686	100	2,572	0	0	0
Athens, Lake	77	29,435	29,435	100	0	0	0	0
Palestine, Lake	78	370,907	370,907	100	0	0	0	0
Tyler, Lake	79	73,256	73,256	100	0	0	1,506	2
Murvaul, Lake	80	38,284	37,771	98	-478	-1	-513	-1
Jacksonville, Lake	81	30,300	30,300	100	0	0	0	0
Nacogdoches, Lake	82	39,521	38,431	97	64	0	-257	-1
Houston County Lake	83	17,113	17,087	99	-26	0	-26	0
Sam Rayburn Reservoir	84	2,857,077	2,720,008	95	-42,196	-1	-125,843	-4
Toledo Bend Reservoir (Texas)	85	2,236,450	2,225,696	99	17,026	1	98,908	4
Toledo Bend Reservoir (TX & LA)	(85)	4,472,900	4,451,393	99	34,053	1	197,818	4
*Livingston, Lake	86	1,741,867	1,741,867	100	0	0	0	0
B A Steinhagen Lake	87	66,966	64,042	95	3,528	5	63,833	95
Conroe, Lake	88	416,188	415,213	99	2,533	1	-975	0
TOTAL		10,028,728	9,875,377	98	16,250	0	143,959	1
TRANS-PECOS								
Red Bluff Reservoir	89	289,670	89,818	31	-9,417	-3	-14,980	-5
TOTAL		289,670	89,818	31	-9,417	-3	-14,980	-5

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

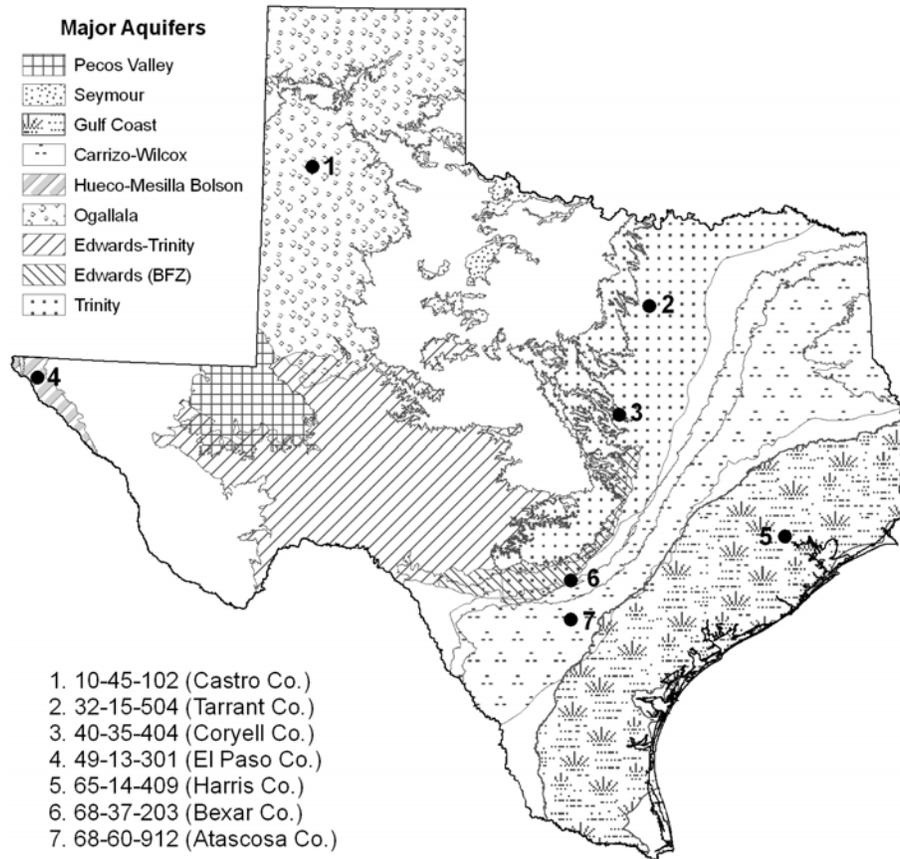
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage		Change since Late Aprilr 2008		Change since Late May 2007		
			Late May (acre-feet)	2008 (%)	(acre-feet)	(%)	(acre-feet)	(%)	
EDWARDS PLATEAU									
Oak Creek Reservoir	90	39,260	36,970	94	-595	-2	25,854	66	
E V Spence Reservoir	91	517,272	67,437	13	-1,360	0	-7,938	-2	
O C Fisher Lake	92	79,483	0	0	0	0	0	0	
*O H Ivie Reservoir	93	554,335	367,320	66	-10,547	-2	106,107	19	
Twin Buttes Reservoir	94	177,850	70,027	39	-3,347	-2	-18,314	-10	
Brady Creek Reservoir	95	29,110	20,123	69	2,548	9	4,869	17	
Buchanan, Lake	96	824,519	819,119	99	-5,400	-1	47,905	6	
Lyndon B Johnson, Lake	97	113,690	111,890	98	129	0	64	0	
*Amistad Reservoir (Texas)	98	1,840,849	2,194,000	119	-52,000	-3	186,000	10	
*Amistad Reservoir (TX & Mexico)	(98)	3,275,532	2,290,000	70	-279,000	-9	-277,000	-8	
TOTAL		4,176,368	3,686,886	88	-70,572	-2	344,546	8	
SOUTH CENTRAL									
Travis, Lake	99	1,113,902	1,033,179	92	-30,461	-3	-80,723	-7	
*Austin, Lake	100	21,804	20,881	95	-196	-1	-106	0	
Somerville Lake	101	147,104	146,783	99	-321	0	-321	0	
Canyon Lake	102	378,781	369,069	97	-6,931	-2	-9,712	-3	
Medina Lake	103	254,823	211,253	82	-8,475	-3	32,968	13	
*Coletto Creek Reservoir	104	31,040	28,548	91	-1,694	-5	-2,492	-8	
TOTAL		1,947,454	1,809,713	93	-48,078	-2	-60,386	-3	
UPPER COAST									
Houston, Lake	105	128,863	128,863	100	0	0	0	0	
Texana, Lake	106	153,246	128,229	83	-9,632	-6	-23,367	-15	
TOTAL		282,109	257,092	91	-9,632	-3	-23,367	-8	
SOUTHERN									
Choke Canyon Reservoir	107	695,262	650,008	93	-7,976	-1	72,634	10	
Corpus Christi, Lake	108	256,961	228,103	88	-11,333	-4	21,439	8	
*Falcon Reservoir (Texas)	109	1,551,034	872,000	56	-90,000	-6	364,000	23	
*Falcon Reservoir (TX & Mexico)	(109)	2,646,817	1,046,000	40	-48,000	-2	368,000	14	
TOTAL		2,503,257	1,750,111	70	-109,309	-4	458,073	18	
STATE TOTAL		31,380,135	28,520,782	91	-185,660	-1	1,397,134	4	

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

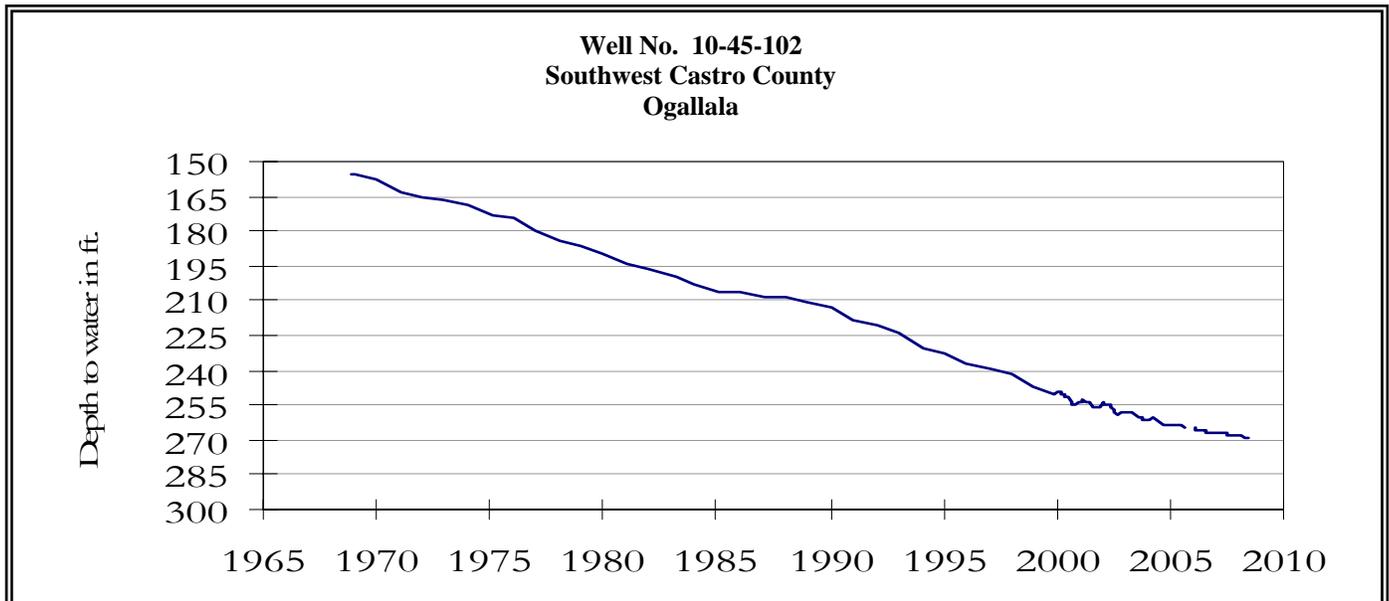
Note

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

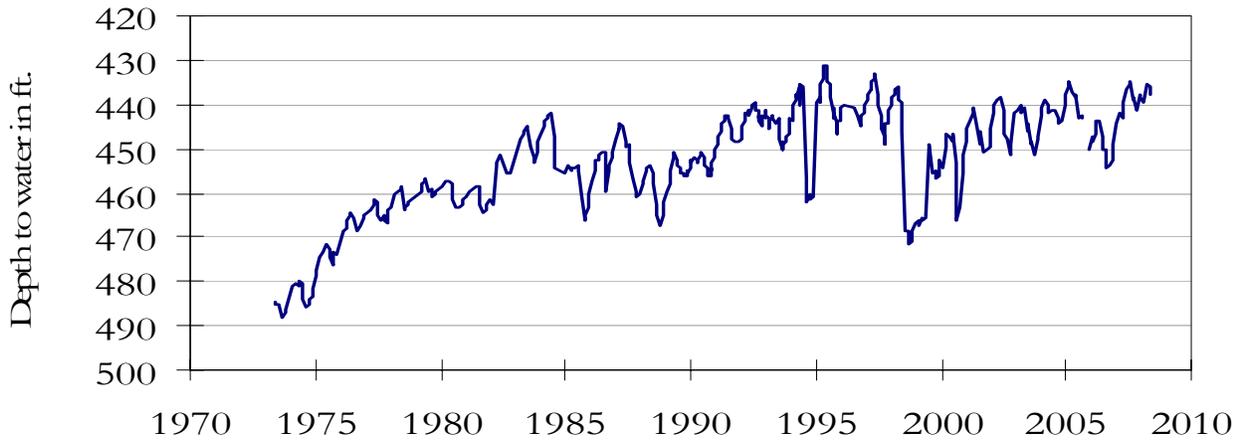


MAY GROUND WATER LEVELS IN OBSERVATION WELLS



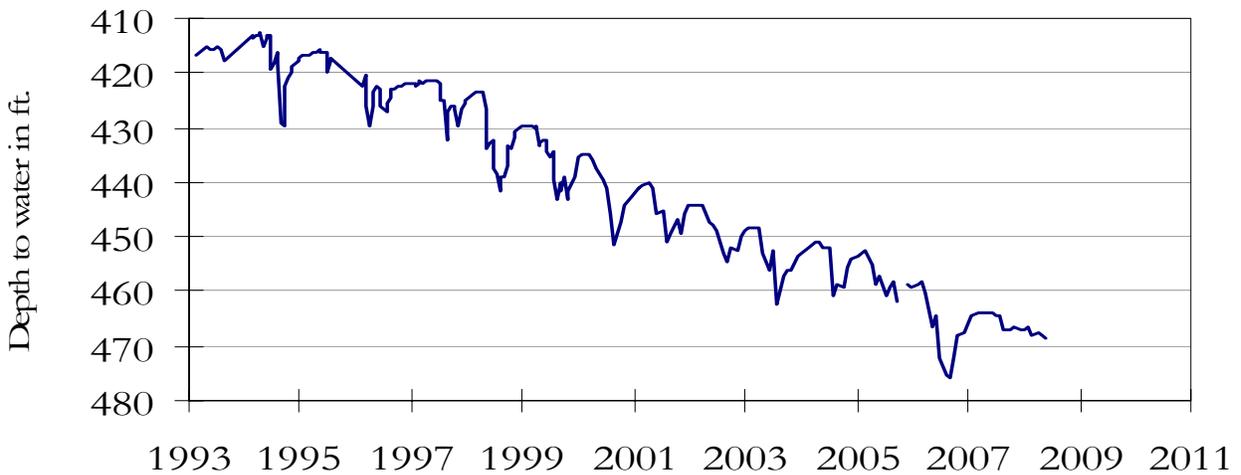
The late May water-level measurement in this Ogallala Aquifer well, elevation 3,816 feet above sea level, was 268.91 feet below land surface. This measurement was 0.07 feet below last month's measurement, 1.90 feet below last year's measurement, and 112.91 feet below the initial measurement recorded in 1968. No water level measurements were recorded for September through December 2005.

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



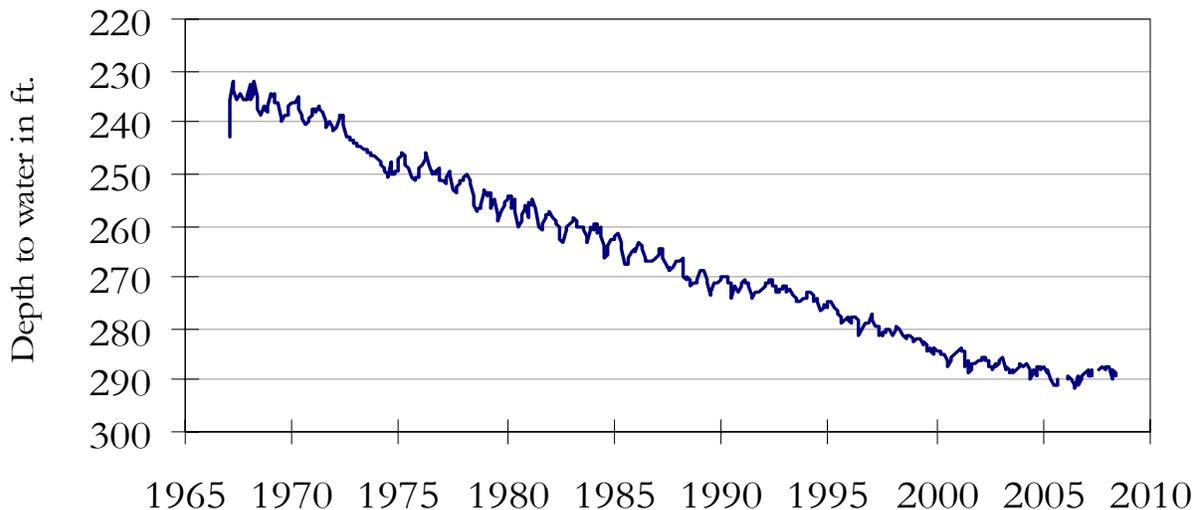
The late May water-level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 437.67 feet below land surface. This measurement was 1.55 feet below last month's measurement, 1.10 feet below last year's measurement, and 59.67 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September or October 2005.

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



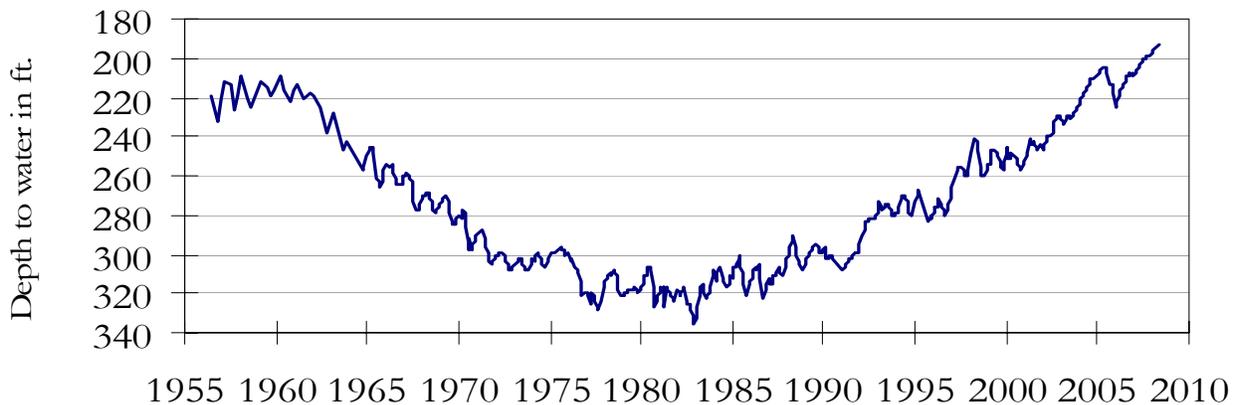
The late May water-level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 468.50 feet below land surface. This water level was 0.17 feet below last month's measurement, 4.64 feet below last year's measurement, and 176.50 feet below the initial measurement recorded in 1955. No water level measurement was recorded for October 2005.

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



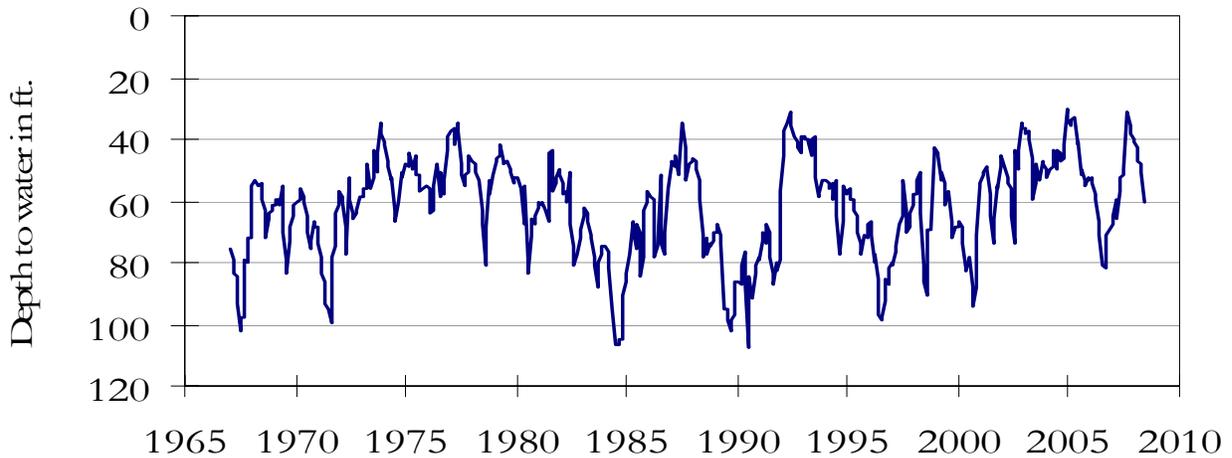
The late May water-level measurement in this Hueco Bolson Aquifer well, elevation 3,882 feet above sea level, was 288.94 feet below land surface. This water level was 0.58 feet below last month's measurement, and 57.04 feet below the initial measurement in 1964. No water level measurements were recorded for May through July 2007, and October or December 2005.

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



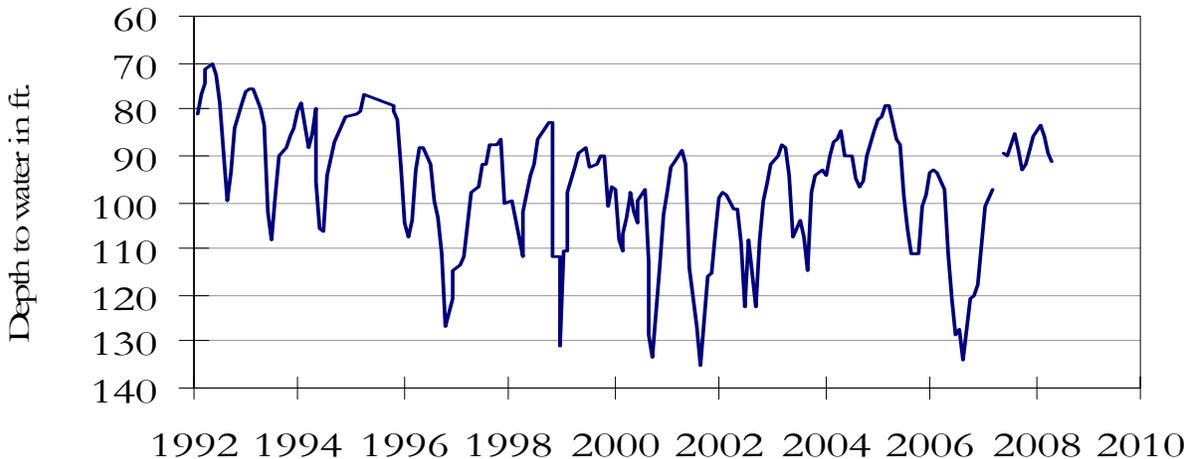
The late May water-level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level, was 193.41 feet below land surface. This was 0.10 feet above last month's measurement, 8.74 feet above last year's measurement, and 57.91 feet below the initial measurement recorded in 1947.

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



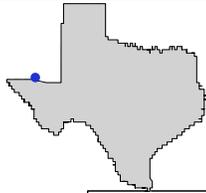
The late May water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 60.40 feet below land surface. This was 9.34 feet below last month's measurement, 8.90 feet below last year's measurement, and 13.76 feet below the initial measurement recorded in 1962.

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



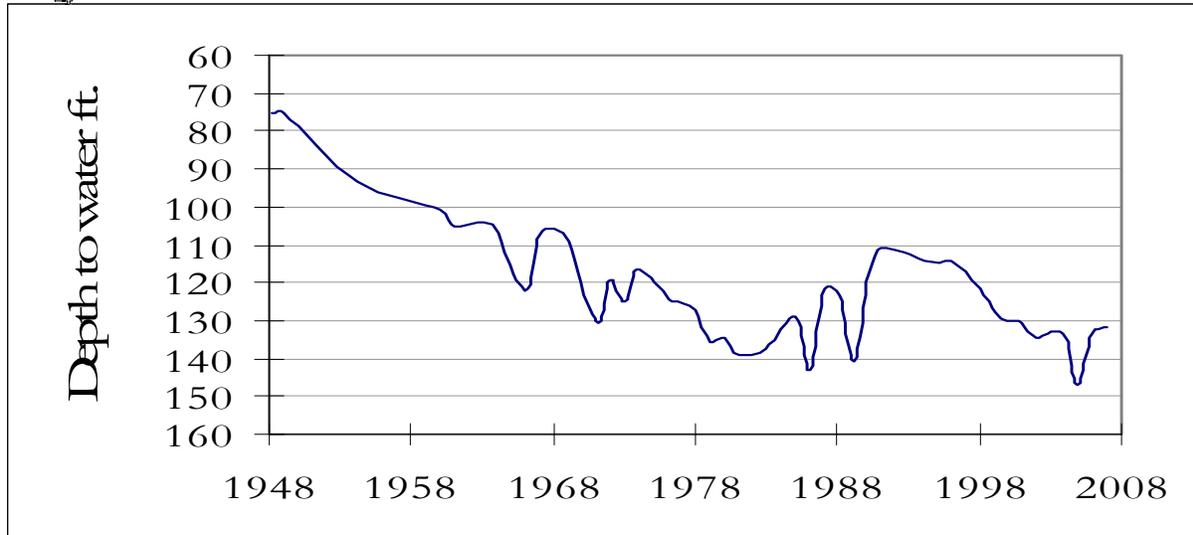
The late May water-level measurement in this Carrizo Aquifer well, elevation 446 feet above sea level, was not available. No water level measurements were recorded for March and April 2007, and May 2008.

HYDROGRAPH OF THE MONTH
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 48-07-206
Hudspeth County



This water level observation well, located 3.5 miles north of Dell City, at an elevation of 3709 feet ASL, was completed in the Bone Springs-Victorio Peak Aquifer. Water levels in this irrigation well have remained relatively constant over the past 30 years, except in years of drought.

May, 2008

Water level measurements were available for six out of the seven key monitoring wells. Water levels rose in only one of the seven monitoring wells since the beginning of May--0.10 feet in the Harris Co. Gulf Coast well. Water levels declined in the remaining monitoring wells, ranging from 0.07 feet in the Castro Co. Ogallala well to 9.34 feet in the Bexar Co. Edwards well. The J-17 well in San Antonio recorded a water level of 60.40 feet below land surface, 9.34 feet below last month's measurement. This water level is 20.60 feet above the Stage 1 critical management level.

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