Texas Water Development Board

WATER Conditions

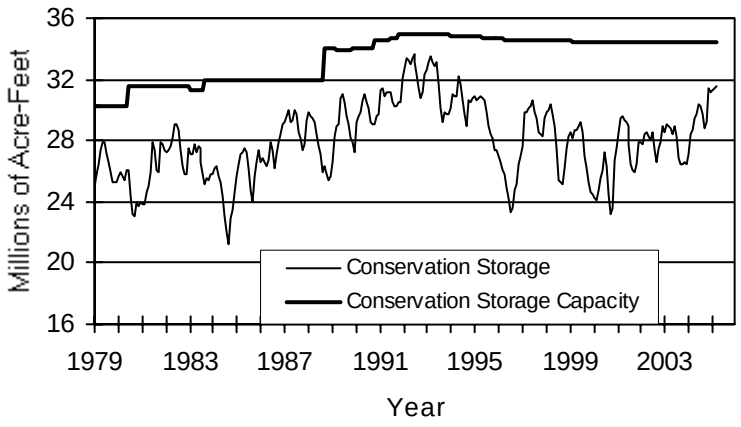
RESERVOIR STORAGE

March 2005

Near the end of March, the 77 reservoirs monitored for this report held 31.6 million acre-feet in conservation storage, or **91.7** percent of the conservation storage capacity of the state's major reservoirs. Storage increased during the month by 0.15 million acre-feet (0.4% of conservation storage capacity). Compared to last year, storage increased by 2.91 million acre-feet (8.4%).

Storage was at capacity (100%) in the South Central and Upper Coast Regions, near capacity in the Edwards Plateau (98%), East (97%), and North Central (93%) Regions, but lower than one-third of capacity in the High Plains (31%) Region. Storage was at 100% in 32 reservoirs, and the Texas share of Amistad continued to remain above its capacity, reaching 147%. Compared to this time last year, all Regions except the East had increases in storage with the greatest increase in the Edwards Plateau Region (+34%). Storage in the East Region remained unchanged.

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.

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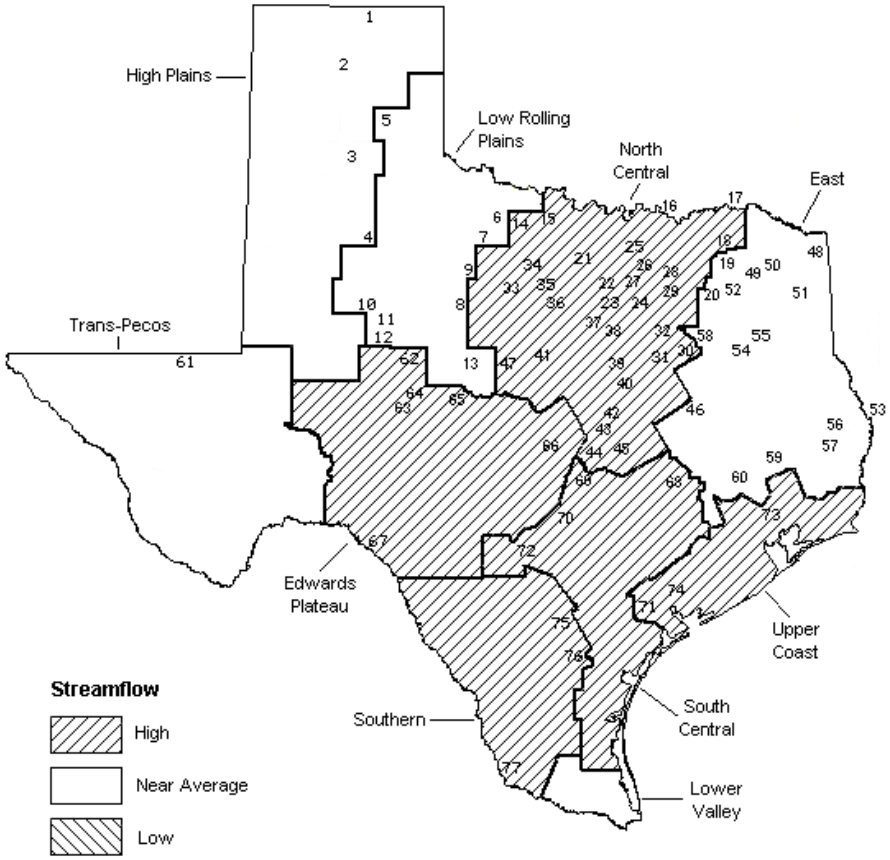
STREAMFLOW

Of 29 reporting index stations in March, computed 30-day mean flows are very high (0% - 5% exceedance) at 1 station, high (5% - 30% exceedance) at 19 stations, and near normal (30% - 70% exceedance) at 9 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 the North Central, Edwards Plateau, South Central, Upper Coast, and Southern Regions of the state and normal in the High Plains, Low Rolling Plains, East Texas, and Trans-Pecos Regions. Streamflow in the Lower Valley Region is not monitored.

MARCH STREAMFLOW CONDITIONS



Reservoirs Shown on Map

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

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late Mar. 2005 (acre-feet)	(%)	Change since Late February 2005 (acre-feet)	(%)	Change since Late March 2004 (acre-feet)	(%)
HIGH PLAINS								
Palo Duro Reservoir	1	60,900	4,100	7	-330	-1	1,630	3
Lake Meredith (Texas)	2	500,000	175,770	35	760	0	39,940	8
Lake Meredith (Texas and Oklahoma)	(2)	779,560	175,770	23	760	0	39,940	5
MacKenzie Reservoir	3	46,250	10,010	22	-40	0	4,270	9
White River Lake	4	31,850	10,030	31	-100	0	3,530	11
TOTAL		639,000	199,910	31	290	0	49,370	8
LOW ROLLING PLAINS								
Greenbelt Reservoir	5	58,200	23,710	41	350	1	-1,070	-2
Lake Kemp	6	319,600	254,320	80	0	0	63,100	20
Miller's Creek Reservoir	7	27,890	21,370	77	10	0	9,540	34
Fort Phantom Hill Reservoir	8	70,030	65,600	94	-520	-1	36,810	53
Lake Stamford	9	52,700	35,160	67	-1,040	-2	4,430	8
Lake J. B. Thomas	10	202,300	59,480	29	-1,980	-1	35,870	18
Lake Colorado City	11	30,800	30,630	99	-170	-1	7,890	26
Champion Creek Reservoir	12	41,600	5,130	12	0	0	1,610	4
Hords Creek Lake	13	8,600	8,420	98	50	1	6,050	70
TOTAL		811,720	503,820	62	-3,300	0	164,230	20
NORTH CENTRAL								
Lake Kickapoo	14	106,000	71,800	68	-1,590	-2	10,420	10
Lake Arrowhead	15	262,100	194,750	74	-3,630	-1	72,990	28
Lake Texoma	16	2,722,300	2,312,690	85	-216,790	-8	-74,620	-3
Pat Mayse Lake	17	124,500	123,810	99	-550	0	8,620	7
Cooper Lake	18	273,000	273,000	100	0	0	51,050	19
Lake Sulphur Springs	19	17,710	17,710	100	220	1	2,580	15
Lake Tawakoni	20	936,200	881,000	94	-11,900	-1	33,900	4
Bridgeport Reservoir	21	374,830	351,700	94	-1,700	0	127,000	34
Eagle Mountain Reservoir	22	178,380	178,380	100	0	0	30,580	17
Benbrook Lake	23	88,200	88,200	100	1,910	2	3,960	4
Joe Pool Lake	24	175,800	175,800	100	0	0	0	0
Ray Roberts Lake	25	798,760	798,760	100	0	0	63,410	8
Lewisville Lake	26	555,000	555,000	100	0	0	8,250	1
Grapevine Lake	27	187,700	181,330	97	-2,420	-1	20,120	11
Lavon Lake	28	443,800	443,800	100	0	0	35,910	8
Lake Ray Hubbard	29	413,420	413,300	100	-120	0	32,400	8
Richland-Chambers Creek Lake	30	1,103,820	1,103,820	100	0	0	0	0
Navarro Mills Lake	31	55,810	55,810	100	0	0	0	0
Bardwell Lake	32	53,580	46,910	88	-2,290	-4	110	0
Hubbard Creek Reservoir	33	317,800	186,420	59	-650	0	63,590	20
Lake Graham	34	45,000	40,870	91	-850	-2	18,930	42
Possum Kingdom Lake	35	551,820	507,400	92	-16,300	-3	75,700	14
Lake Palo Pinto	36	27,650	26,640	96	-110	0	8,670	31
Lake Granbury	37	135,680	131,900	97	-2,600	-2	-1,600	-1
Lake Pat Cleburne	38	25,300	25,300	100	0	0	410	2
Whitney Lake	39	622,800	583,960	94	1,350	0	78,450	13
Waco Lake	40	144,500	144,500	100	0	0	0	0
Proctor Lake	41	55,590	55,590	100	0	0	5,040	9
Belton Lake	42	434,500	434,500	100	0	0	0	0
Stillhouse Hollow Lake	43	226,060	226,060	100	0	0	6,120	3
Lake Georgetown	44	37,010	37,010	100	0	0	14,360	39
Granger Lake	45	54,280	54,280	100	0	0	0	0
Lake Limestone	46	215,750	214,160	99	-1,590	-1	-1,460	-1
Lake Brownwood	47	143,400	134,210	94	-7,720	-5	3,360	2
TOTAL		11,908,050	11,070,370	93	-267,330	-2	698,250	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 Mar. 2005 (acre-feet)	(%)	Change since Late February 2005 (acre-feet)	(%)	Change since Late March 2004 (acre-feet)	(%)
EAST								
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0
Lake Cypress Springs	49	66,800	66,800	100	0	0	0	0
Lake Bob Sandlin	50	202,300	202,300	100	0	0	0	0
Lake O' the Pines	51	252,000	248,840	99	1,400	1	1,750	1
Lake Fork Reservoir	52	635,200	635,200	100	0	0	0	0
Toledo Bend Reservoir	53	4,472,900	4,165,000	93	74,000	2	16,000	0
Lake Palestine	54	411,300	411,300	100	0	0	0	0
Lake Tyler	55	73,700	73,700	100	0	0	0	0
Sam Rayburn Reservoir	56	2,876,300	2,876,300	100	0	0	0	0
B. A. Steinhagen Lake	57	94,200	84,390	90	7,640	8	-9,810	-10
Cedar Creek Reservoir	58	637,050	636,900	100	-150	0	44,700	7
Lake Livingston	59	1,750,000	1,750,000	100	0	0	0	0
Lake Conroe	60	429,900	417,600	97	-4,500	-1	-2,100	0
TOTAL		12,044,350	11,711,030	97	78,390	1	50,540	0
TRANS-PECOS								
Red Bluff Reservoir	61	307,000	129,870	42	6,660	2	72,640	24
TOTAL		307,000	129,870	42	6,660	2	72,640	24
EDWARDS PLATEAU								
E. V. Spence Reservoir	62	488,760	77,210	16	-1,640	0	30,210	6
Twin Buttes Reservoir	63	177,800	38,820	22	4,220	2	33,370	19
O.C. Fisher Lake	64	119,200	7,340	6	90	0	4,520	4
O. H. Ivie Reservoir	65	554,340	318,400	57	46,400	8	126,570	23
Lake Buchanan	66	896,980	888,300	99	-8,680	-1	59,060	7
Amistad Reservoir (Texas)	67	1,771,030	2,598,000	147	162,000	9	1,105,000	62
Amistad Reservoir (Texas and Mexico)	(67)	3,151,300	2,967,000	94	-28,000	-1	1,273,000	40
TOTAL		4,008,110	3,928,070	98	202,390	5	1,358,730	34
SOUTH CENTRAL								
Somerville Lake	68	155,060	155,060	100	0	0	0	0
Lake Travis	69	1,144,100	1,144,100	100	0	0	139,200	12
Canyon Lake	70	385,600	379,260	98	-2,150	-1	-830	0
Coleto Creek Reservoir	71	35,060	32,040	91	-110	0	80	0
Medina Lake	72	254,000	254,000	100	0	0	18,500	7
TOTAL		1,973,820	1,964,460	100	-2,260	0	156,950	8
UPPER COAST								
Lake Houston	73	128,860	128,860	100	0	0	0	0
Lake Texana	74	157,900	156,560	99	-510	0	1,520	1
TOTAL		286,760	285,420	100	-510	0	1,520	1

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

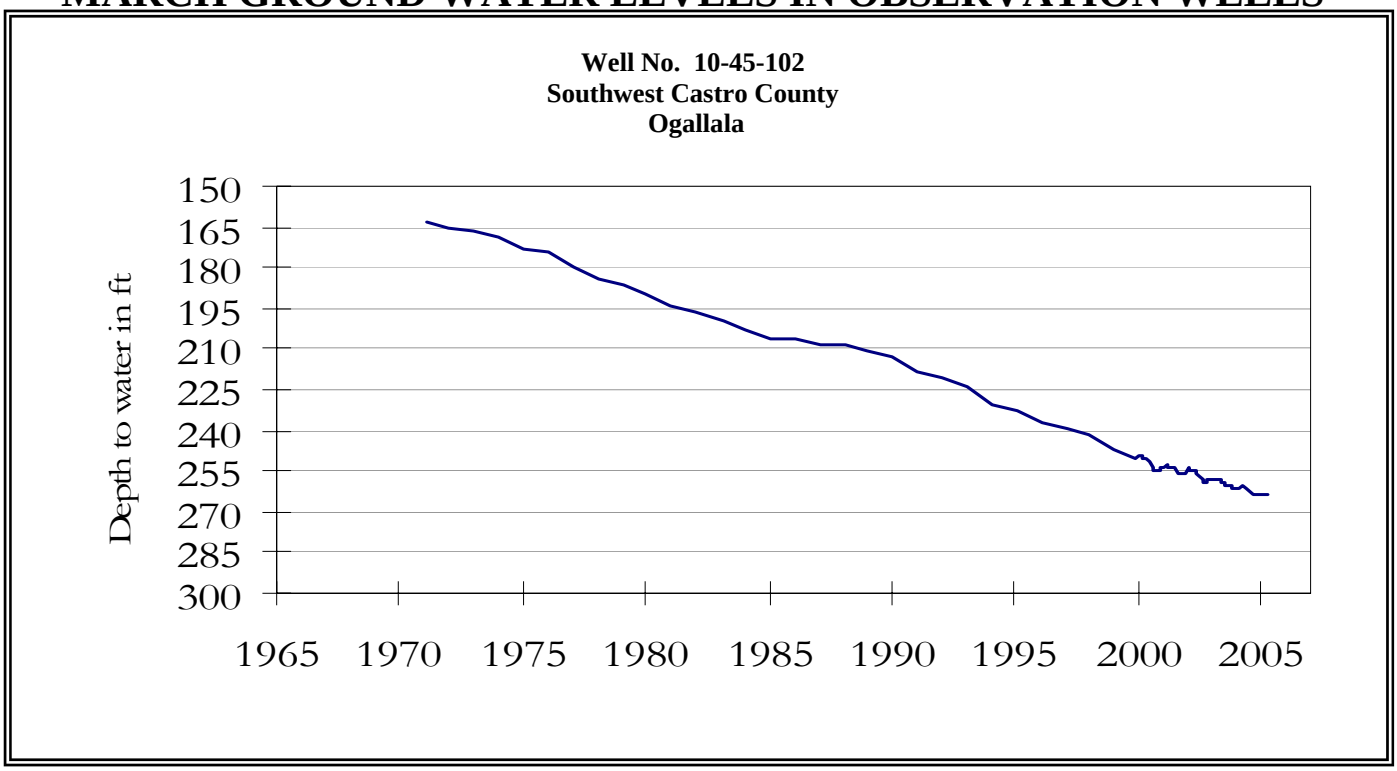
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late Mar. 2005 (acre-feet)	(%)	Change since Late February 2005 (acre-feet)	(%)	Change since Late March 2004 (acre-feet)	(%)
			SOUTHERN					
Choke Canyon Reservoir	75	695,260	691,000	99	-4,260	-1	1,000	0
Lake Corpus Christi	76	241,240	241,240	100	0	0	40	0
Falcon Reservoir (Texas)	77	1,555,120	878,000	56	142,000	9	354,000	23
Falcon Reservoir (Texas and Mexico)	(77)	2,653,290	1,854,000	70	106,000	4	632,000	24
TOTAL		2,491,620	1,810,240	73	137,740	6	355,040	14
STATE TOTAL		34,470,430	31,603,190	92	152,070	0	2,907,270	8

Note:

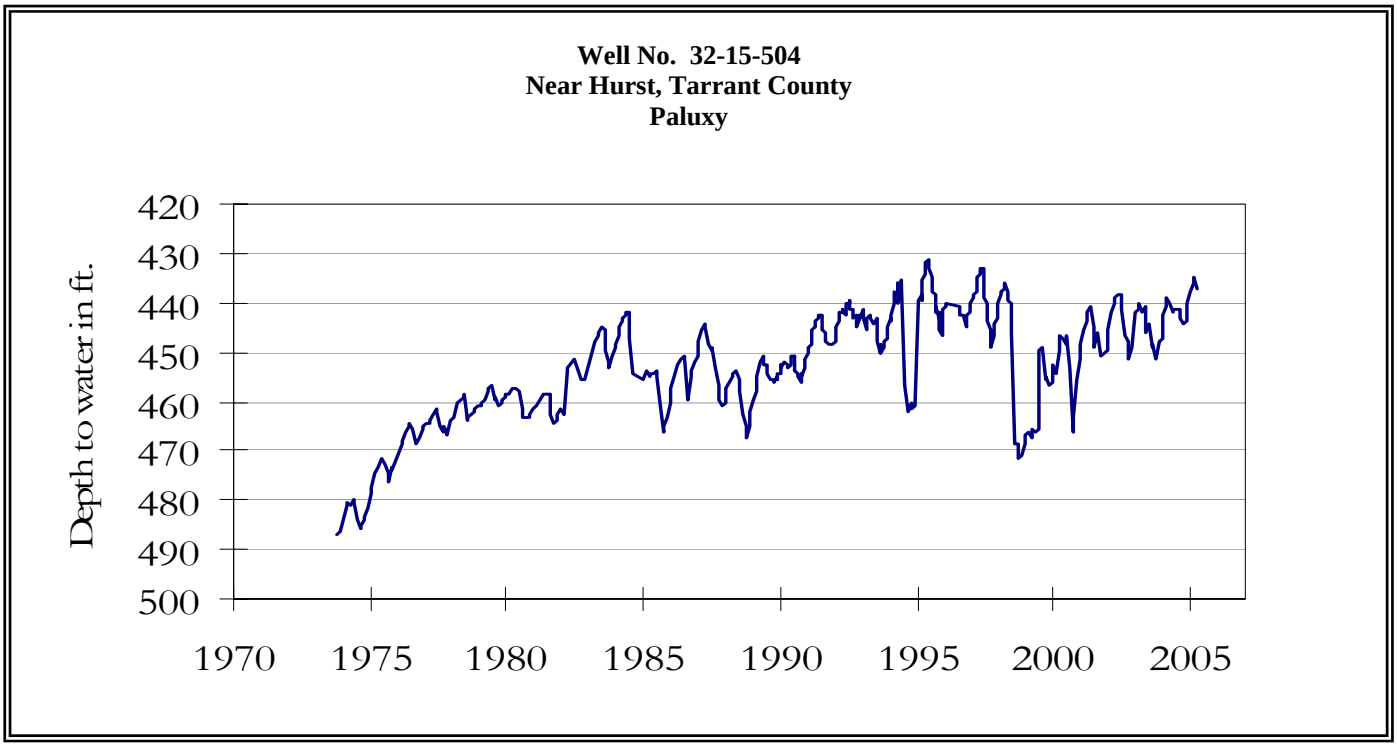
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

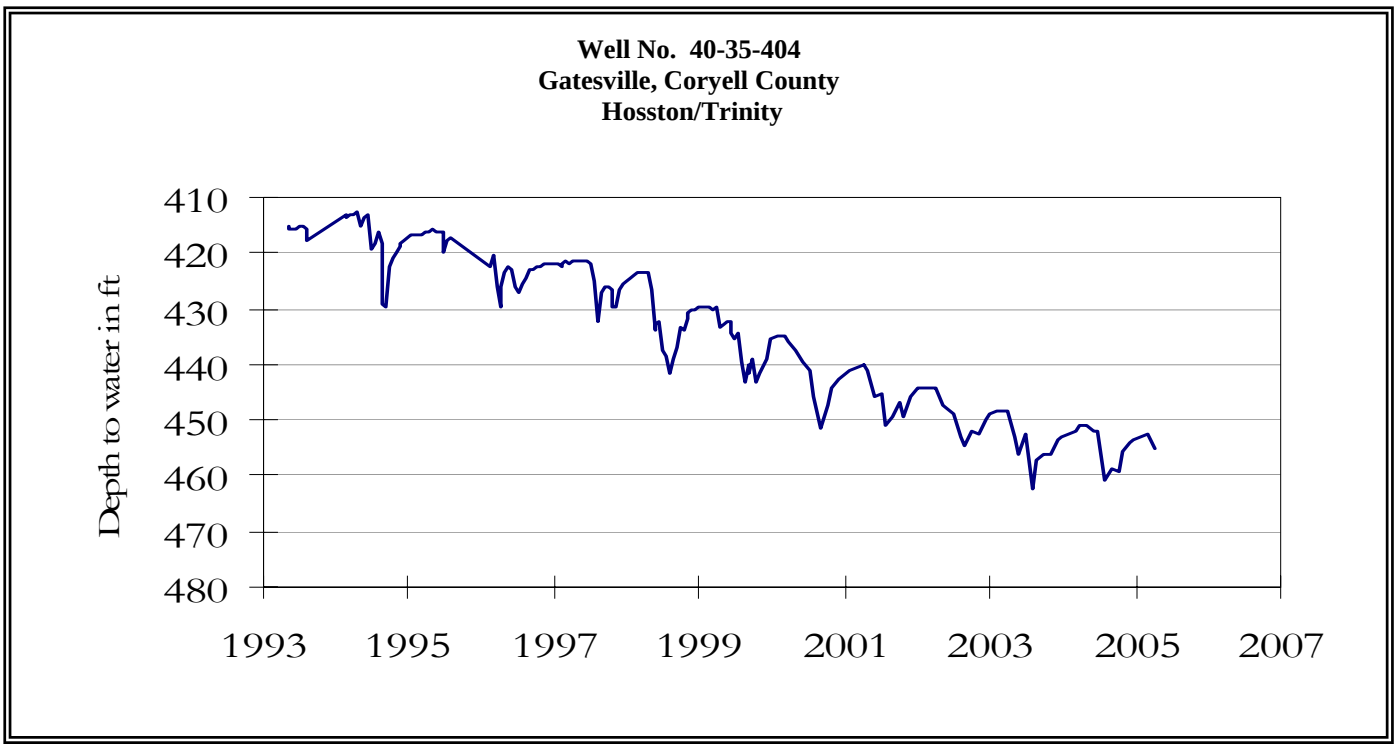
MARCH GROUND WATER LEVELS IN OBSERVATION WELLS



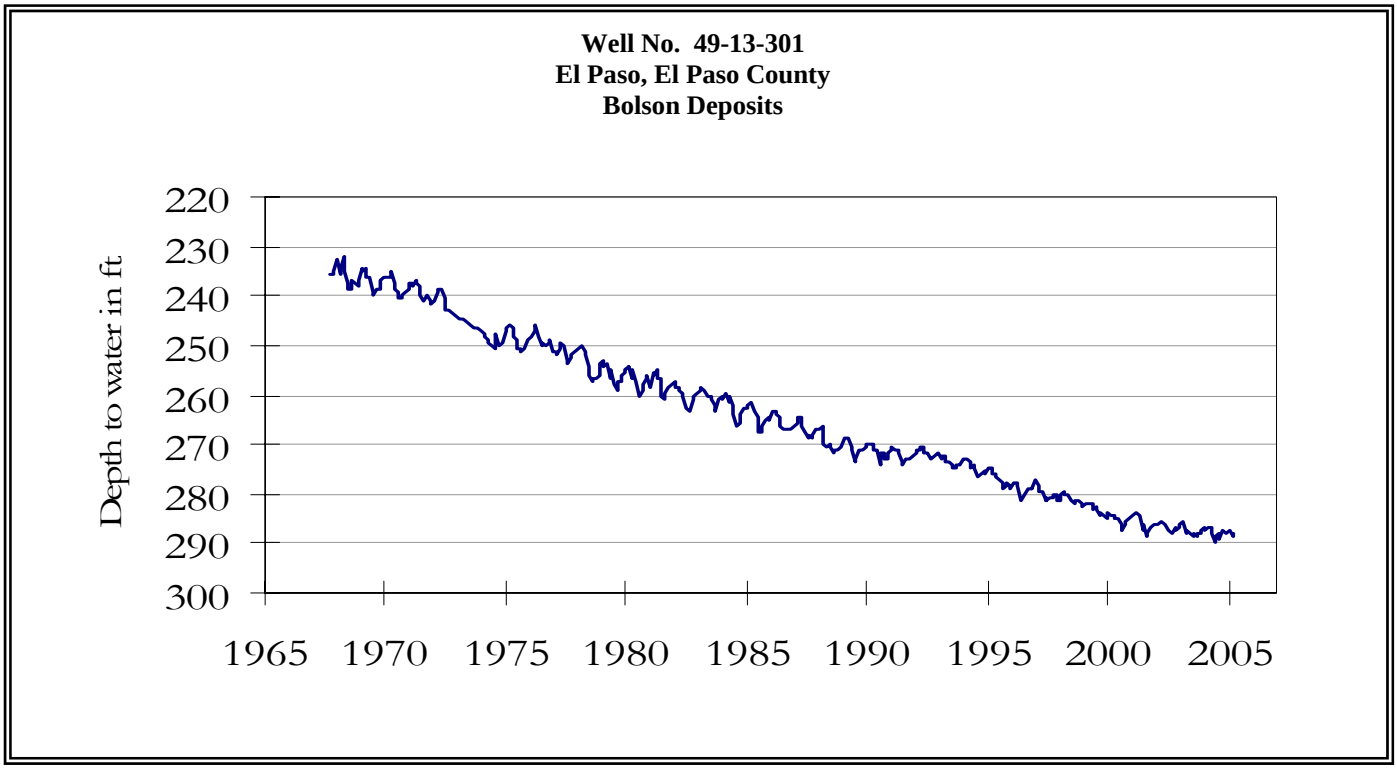
The late March water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 263.33 feet below land surface. This measurement was 0.7 foot above last month's measurement, 2.53 feet below last year's measurement, and 107.33 feet below the initial measurement recorded in 1968.



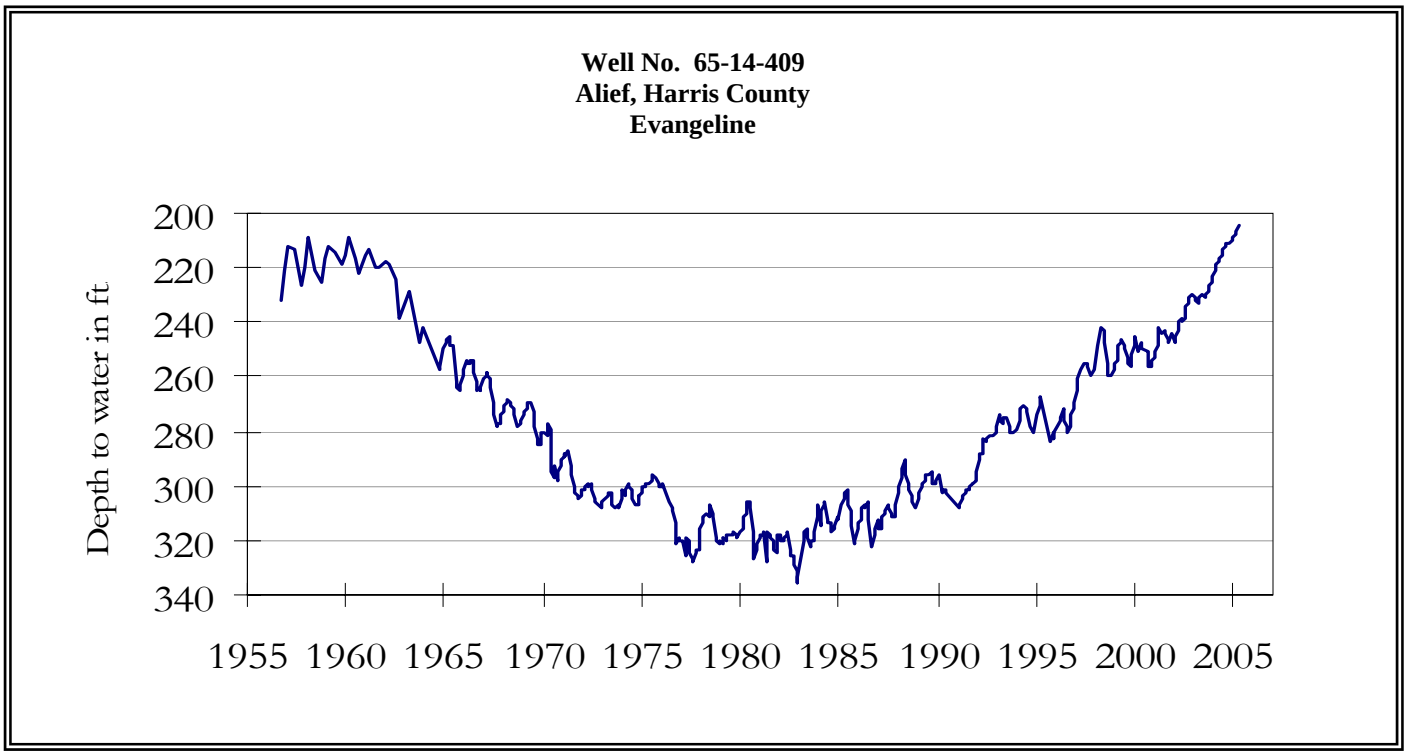
The late March water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 437.44 feet below land surface. This measurement was 2.34 feet below last month's measurement, 2.46 feet above last year's measurement, and 44.05 feet below the initial measurement recorded in 1953.



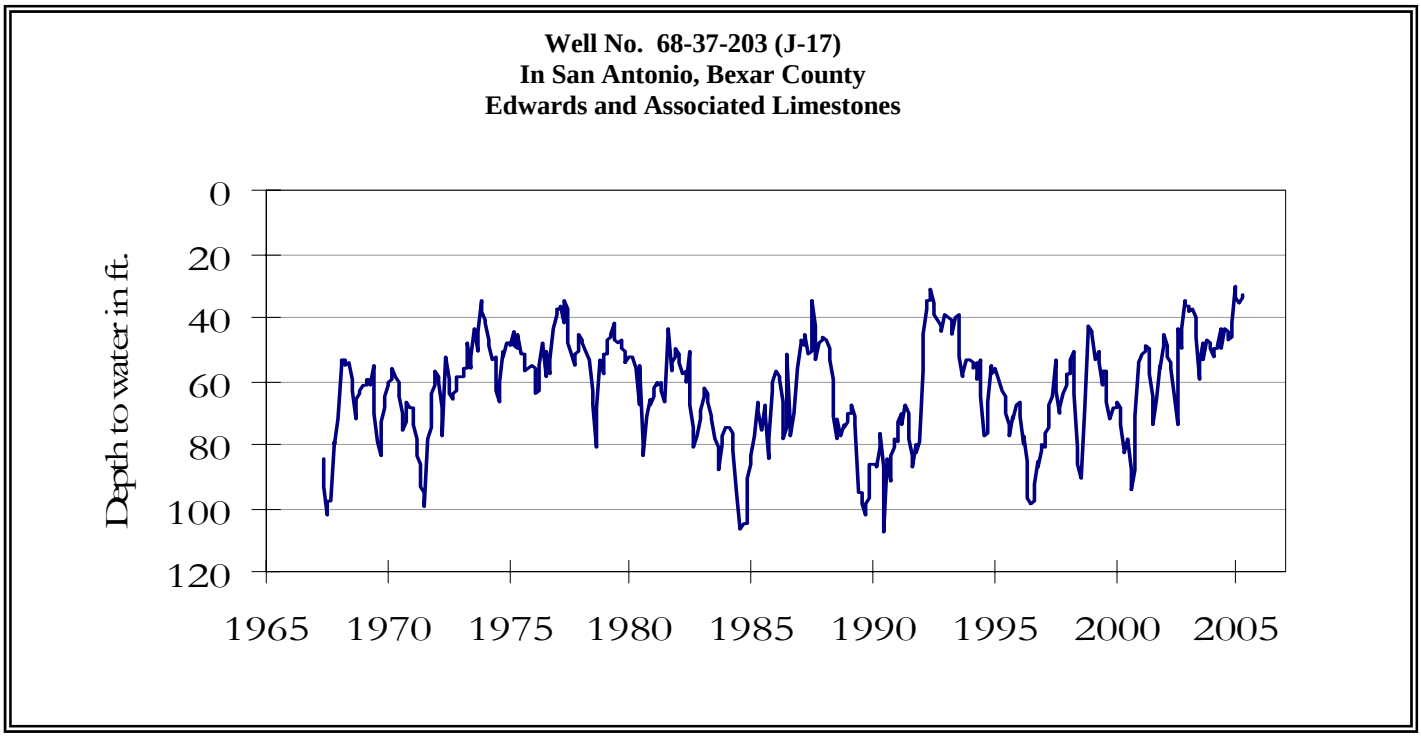
The late March water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 454.9 feet below land surface. This water level was 2.3 feet below last month's measurement, 3.7 feet below last year's measurement, and 162.9 feet below the initial measurement recorded in 1955.



The late March water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 288.61 feet below land surface. This was 0.21 foot below last month's measurement, 1.71 feet below last year's measurement, and 56.71 feet below the initial measurement recorded in 1964.

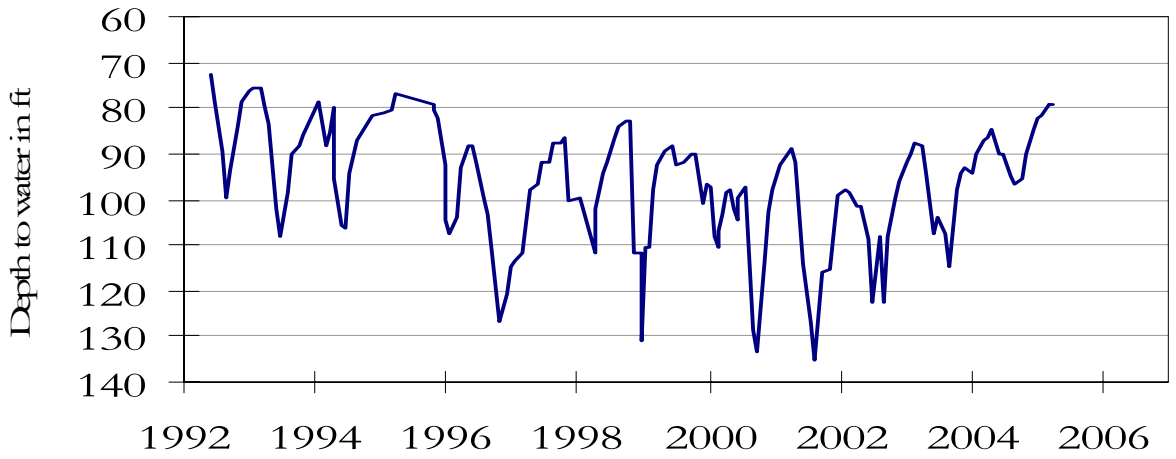


The late March water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 204.73 feet below land surface. This was 1.37 feet above last month's measurement, 12.77 feet above last year's measurement, and 101.5 feet below the initial measurement recorded in 1947.



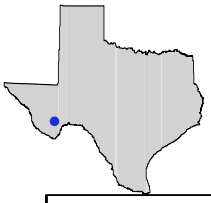
The late March water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 33.08 feet below land surface. This was 1.02 feet above last month's measurement, 15.52 feet above last year's measurement, and 26.54 feet above the initial measurement recorded in 1962.

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



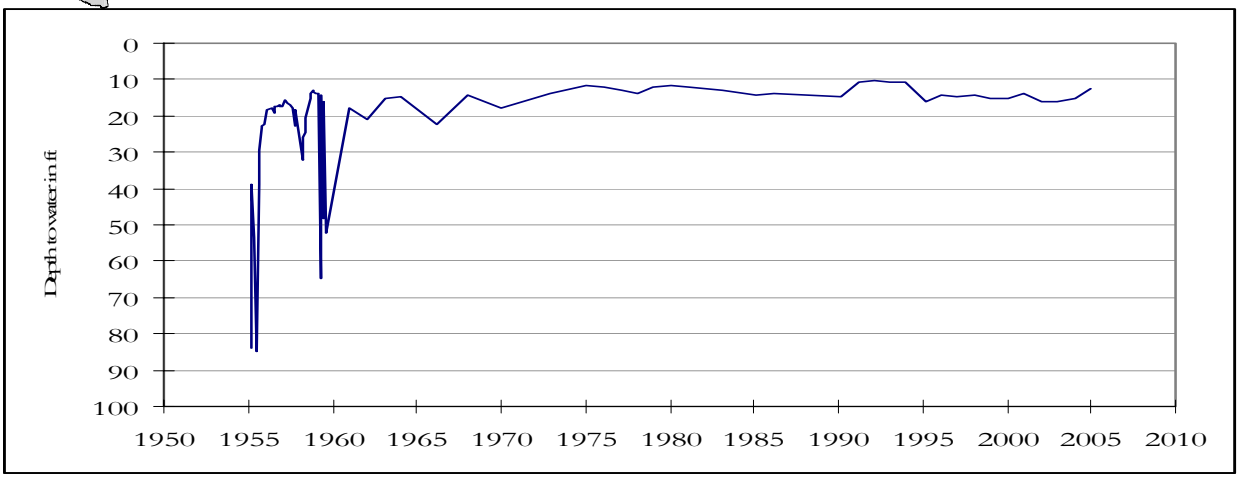
The late March water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 79.37 feet below land surface. This measurement was 0.37 foot below last month's measurement, 7.27 feet above last year's measurement, and 1.88 feet above the initial measurement recorded in 1965.

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. 52-35-901
Brewster County



This unused water level observation well, located 2 miles north of Alpine, at an elevation of 4,390 feet ASL, was completed in the Igneous Aquifer. This well was owed by the City of Alpine. Although current water level data indicates a steady state, water shortages have occurred in other wells in the Alpine water system during prolonged dry periods.

March, 2005

Water levels rose in three of the seven key monitoring wells since the beginning of March, ranging from 0.07 foot in the Castro County Ogallala well to 1.37 feet in the Harris County Evangeline well. The water level declined in the remaining four monitoring wells, ranging from 0.21 foot in the El Paso County Bolson Deposits well to 2.34 feet in the Tarrant County Paluxy well. The J-17 well recorded a water level of 33.08 feet below the land surface, a rise of 1.02 feet from the February 2005 measurement. This water level is approximately forty-seven (47) feet above the Stage I critical water management criteria.

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