Texas Water Development Board

WATER Conditions

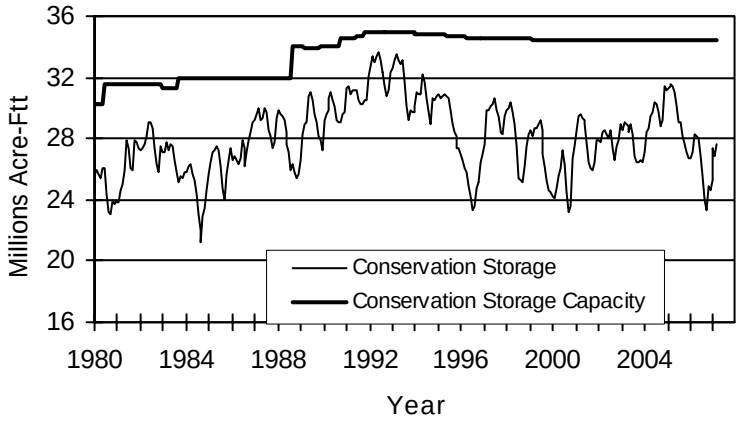
RESERVOIR STORAGE

March 2007

Near the end of March, the 77 reservoirs monitored for this report held 27.7 million acre-feet in conservation storage, or 80 percent of the conservation storage capacity of the state's major reservoirs. Statewide total storage is 5% below normal for this time of year. Storage increased during the month by 0.82 million acre-feet (2% of conservation storage capacity). Compared to last year, storage decreased by 0.58 million acre-feet (-3%).

Storage was at 100% of capacity in Upper Coast Region and 96% in East Region. High Plains Region still has the lowest storage, at only 20% of the capacity. During the month, storage increased in all regions by 1% to 13%, due to the abundant rainfall, with 18 reservoirs at 100% capacity. Lake Travis was the reservoir that observed the highest storage increase, 188,310 acre-feet or 16% of its capacity, now at 840,900 acre-feet. However, storage was lower in all regions this year compared to last, with exception of the East and Upper Coast Regions.

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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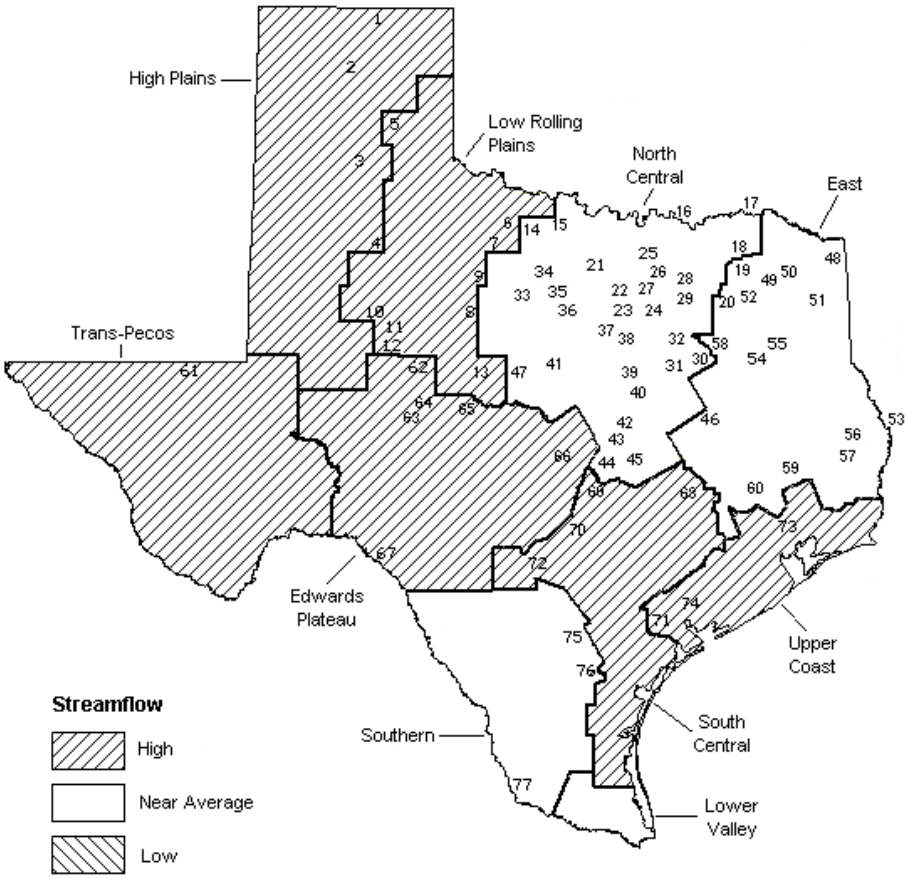
STREAMFLOW

Of 29 reporting index stations in March, computed 30-day mean flows were very high (<5%) at 3 stations, high (5% - 30%) at 15 stations, low (70% - 95%) at 1 stations, and near normal (30% - 70% exceedance) at the remaining 10 stations. Compared to February, flows have increased at 25 index stations and decreased at 4 stations.

On a regional basis, flows in March were normal in Southern, East Texas, and North Central Regions, but high in all other 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. 2007 (acre-feet)	(%)	Change since Late February 2007 (acre-feet)	(%)	Change since Late March 2006 (acre-feet)	(%)
HIGH PLAINS								
Palo Duro Reservoir	1	60,900	1,370	2	-10	0	-220	0
Lake Meredith (Texas)	2	500,000	112,420	22	4,380	1	-22,170	-4
Lake Meredith (Texas and Oklahoma)	(2)	779,560	112,420	14	4,380	1	-22,170	-3
MacKenzie Reservoir	3	46,250	9,140	20	500	1	-280	-1
White River Lake	4	31,850	4,750	15	510	2	-560	-2
TOTAL		639,000	127,680	20	5,380	1	-23,230	-4
LOW ROLLING PLAINS								
Greenbelt Reservoir	5	58,200	22,060	38	2,760	5	660	1
Lake Kemp	6	319,600	231,200	72	4,900	2	-32,700	-10
Miller's Creek Reservoir	7	27,890	20,360	73	10	0	-4,820	-17
Fort Phantom Hill Reservoir	8	70,030	36,180	52	550	1	-7,500	-11
Lake Stamford	9	52,700	32,860	62	370	1	-13,600	-26
Lake J. B. Thomas	10	202,300	26,760	13	-620	0	-26,090	-13
Lake Colorado City	11	30,800	23,960	78	680	2	-3,380	-11
Champion Creek Reservoir	12	41,600	5,430	13	270	1	-350	-1
Hords Creek Lake	13	8,600	4,460	52	-20	0	-1,920	-22
TOTAL		811,720	403,270	50	8,900	1	-89,700	-11
NORTH CENTRAL								
Lake Kickapoo	14	106,000	66,690	63	-1,590	-2	-22,860	-22
Lake Arrowhead	15	262,100	176,550	67	-120	0	-43,780	-17
Lake Texoma	16	2,722,300	2,448,190	90	21,070	1	24,980	1
Pat Mayse Lake	17	124,500	111,590	90	-910	-1	11,610	9
Cooper Lake	18	273,000	149,350	55	-5,790	-2	-44,600	-16
Lake Sulphur Springs	19	17,710	17,710	100	0	0	0	0
Lake Tawakoni	20	936,200	614,600	66	4,100	0	-99,600	-11
Bridgeport Reservoir	21	374,830	198,000	53	9,400	3	-43,300	-12
Eagle Mountain Reservoir	22	178,380	114,200	64	3,500	2	-30,300	-17
Benbrook Lake	23	88,200	83,910	95	6,310	7	13,970	16
Joe Pool Lake	24	175,800	175,800	100	0	0	0	0
Ray Roberts Lake	25	798,760	607,250	76	-1,450	0	-106,370	-13
Lewisville Lake	26	555,000	487,120	88	1,470	0	11,310	2
Grapevine Lake	27	187,700	112,140	60	1,800	1	-30,060	-16
Lavon Lake	28	443,800	320,110	72	4,820	1	6,710	2
Lake Ray Hubbard	29	413,420	374,300	91	1,000	0	-39,120	-9
Richland-Chambers Creek Lake	30	1,103,820	990,300	90	110,400	10	44,500	4
Navarro Mills Lake	31	55,810	55,810	100	30,000	54	17,240	31
Bardwell Lake	32	53,580	53,580	100	5,660	11	6,350	12
Hubbard Creek Reservoir	33	317,800	147,960	47	-1,470	0	-32,380	-10
Lake Graham	34	45,000	33,320	74	-150	0	-8,210	-18
Possum Kingdom Lake	35	551,820	517,210	94	1,160	0	30,710	6
Lake Palo Pinto	36	27,650	13,530	49	1,680	6	-2,460	-9
Lake Granbury	37	135,680	132,000	97	140	0	-1,700	-1
Lake Pat Cleburne	38	25,300	25,300	100	0	0	0	0
Whitney Lake	39	622,800	495,950	80	31,070	5	-47,040	-8
Waco Lake	40	144,500	144,500	100	21,290	15	0	0
Proctor Lake	41	55,590	25,730	46	650	1	-11,790	-21
Belton Lake	42	434,500	418,970	96	62,140	14	15,460	4
Stillhouse Hollow Lake	43	226,060	226,060	100	14,440	6	0	0
Lake Georgetown	44	37,010	36,860	100	16,160	44	15,770	43
Granger Lake	45	54,280	54,280	100	0	0	1,310	2
Lake Limestone	46	215,750	215,750	100	3,430	2	0	0
Lake Brownwood	47	143,400	93,670	65	1,830	1	-24,520	-17
TOTAL		11,908,050	9,738,290	82	342,040	3	-388,170	-3

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

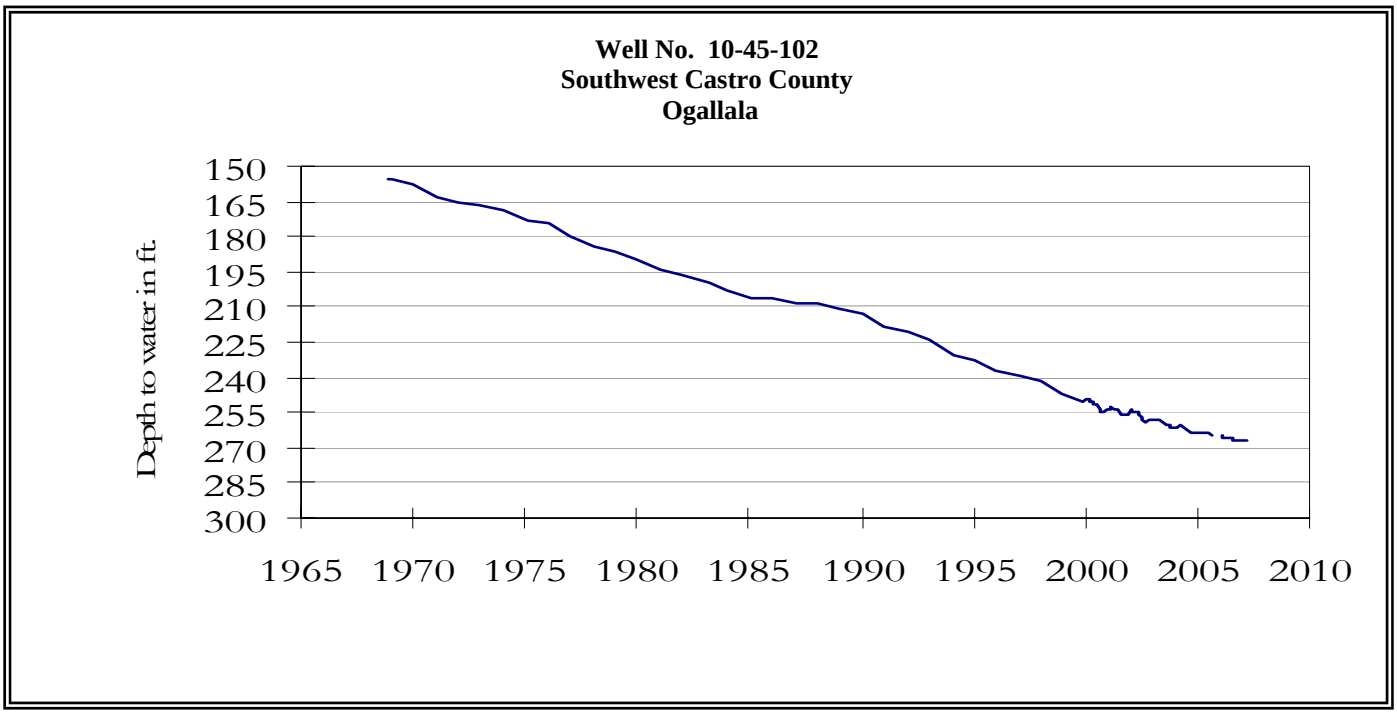
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late Mar. 2007 (acre-feet)	(%)	Change since Late February 2007 (acre-feet)	(%)	Change since Late March 2006 (acre-feet)	(%)
EAST								
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0
Lake Cypress Springs	49	66,800	60,170	90	70	0	-2,760	-4
Lake Bob Sandlin	50	202,300	142,300	70	-900	0	-21,800	-11
Lake O' the Pines	51	252,000	243,930	97	-2,280	-1	28,340	11
Lake Fork Reservoir	52	635,200	620,800	98	-500	0	6,000	1
Toledo Bend Reservoir	53	4,472,900	4,154,000	93	60,000	1	343,000	8
Lake Palestine	54	411,300	411,300	100	1,260	0	35,440	9
Lake Tyler	55	73,700	65,340	89	1,710	2	720	1
Sam Rayburn Reservoir	56	2,876,300	2,876,300	100	0	0	154,380	5
B. A. Steinhagen Lake	57	94,200	220	0	-400	0	-88,970	-94
Cedar Creek Reservoir	58	637,050	618,600	97	49,400	8	38,900	6
Lake Livingston	59	1,750,000	1,750,000	100	7,000	0	319,000	18
Lake Conroe	60	429,900	423,500	99	7,900	2	69,800	16
TOTAL		12,044,350	11,509,160	96	123,260	1	882,050	7
TRANS-PECOS								
Red Bluff Reservoir	61	307,000	108,260	35	2,060	1	-20,340	-7
TOTAL		307,000	108,260	35	2,060	1	-20,340	-7
EDWARDS PLATEAU								
E. V. Spence Reservoir	62	488,760	68,950	14	1,920	0	-20,690	-4
Twin Buttes Reservoir	63	177,800	40,110	23	1,810	1	-13,820	-8
O.C. Fisher Lake	64	119,200	7,900	7	130	0	-4,980	-4
O. H. Ivie Reservoir	65	554,340	218,400	39	1,500	0	-69,000	-12
Lake Buchanan	66	896,980	487,090	54	18,360	2	-245,120	-27
Amistad Reservoir (Texas)	67	1,771,030	1,853,000	105	17,000	1	-318,000	-18
Amistad Reservoir (Texas and Mexico)	(67)	3,151,300	2,597,000	82	28,000	1	-46,000	-1
TOTAL		4,008,110	2,675,450	67	40,720	1	-671,610	-17
SOUTH CENTRAL								
Somerville Lake	68	155,060	155,060	100	0	0	26,300	17
Lake Travis	69	1,144,100	840,900	73	188,310	16	-36,300	-3
Canyon Lake	70	385,600	385,600	100	56,400	15	31,490	8
Coleto Creek Reservoir	71	35,060	32,420	92	840	2	8,550	24
Medina Lake	72	254,000	100,900	40	10,300	4	-73,900	-29
TOTAL		1,973,820	1,514,880	77	255,850	13	-43,860	-2
UPPER COAST								
Lake Houston	73	128,860	128,860	100	0	0	0	0
Lake Texana	74	157,900	157,900	100	6,470	4	34,520	22
TOTAL		286,760	286,760	100	6,470	2	34,520	12
SOUTHERN								
Choke Canyon Reservoir	75	695,260	533,300	77	18,600	3	-65,700	-9
Lake Corpus Christi	76	241,240	177,400	74	60,700	25	61,000	25
Falcon Reservoir (Texas)	77	1,555,120	617,000	40	-43,000	-3	-250,000	-16
Falcon Reservoir (Texas and Mexico)	(77)	2,653,290	1,060,000	40	-56,000	-2	-433,000	-16
TOTAL		2,491,620	1,327,700	53	36,300	1	-254,700	-10
STATE TOTAL		34,470,430	27,691,450	80	820,980	2	-575,040	-2

Note:

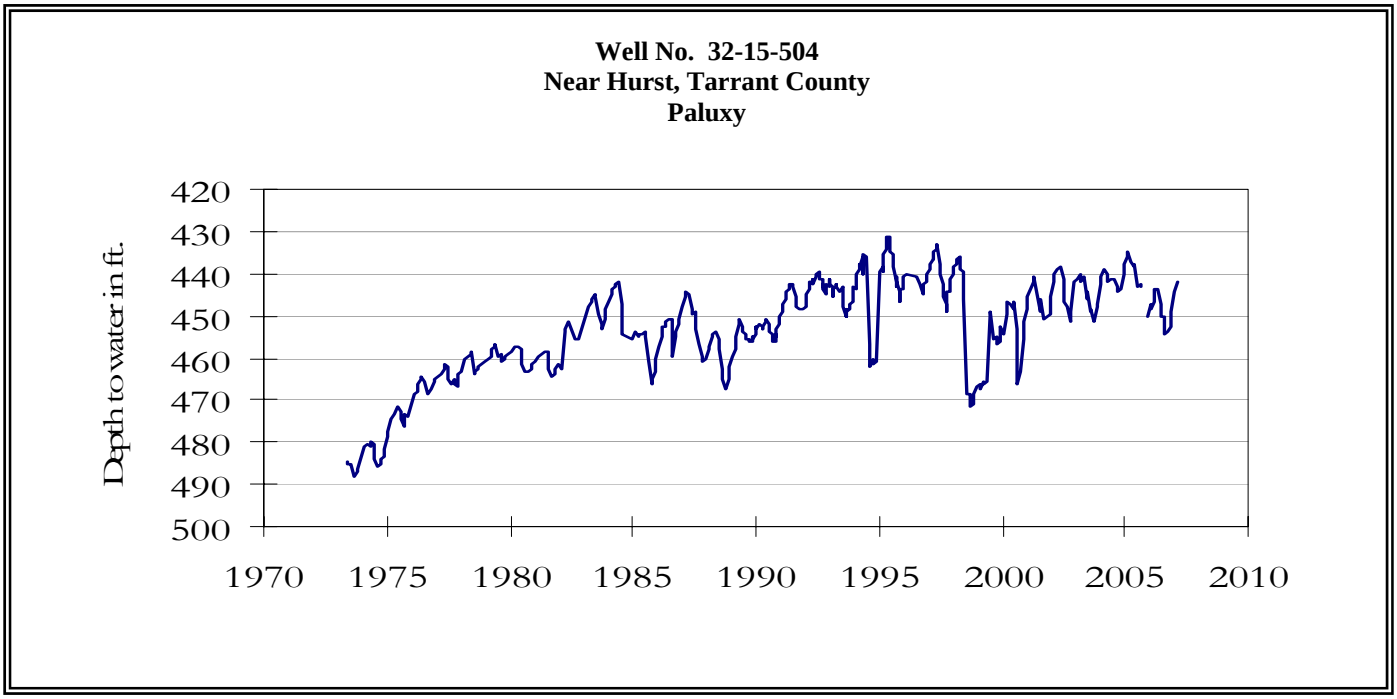
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included 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.

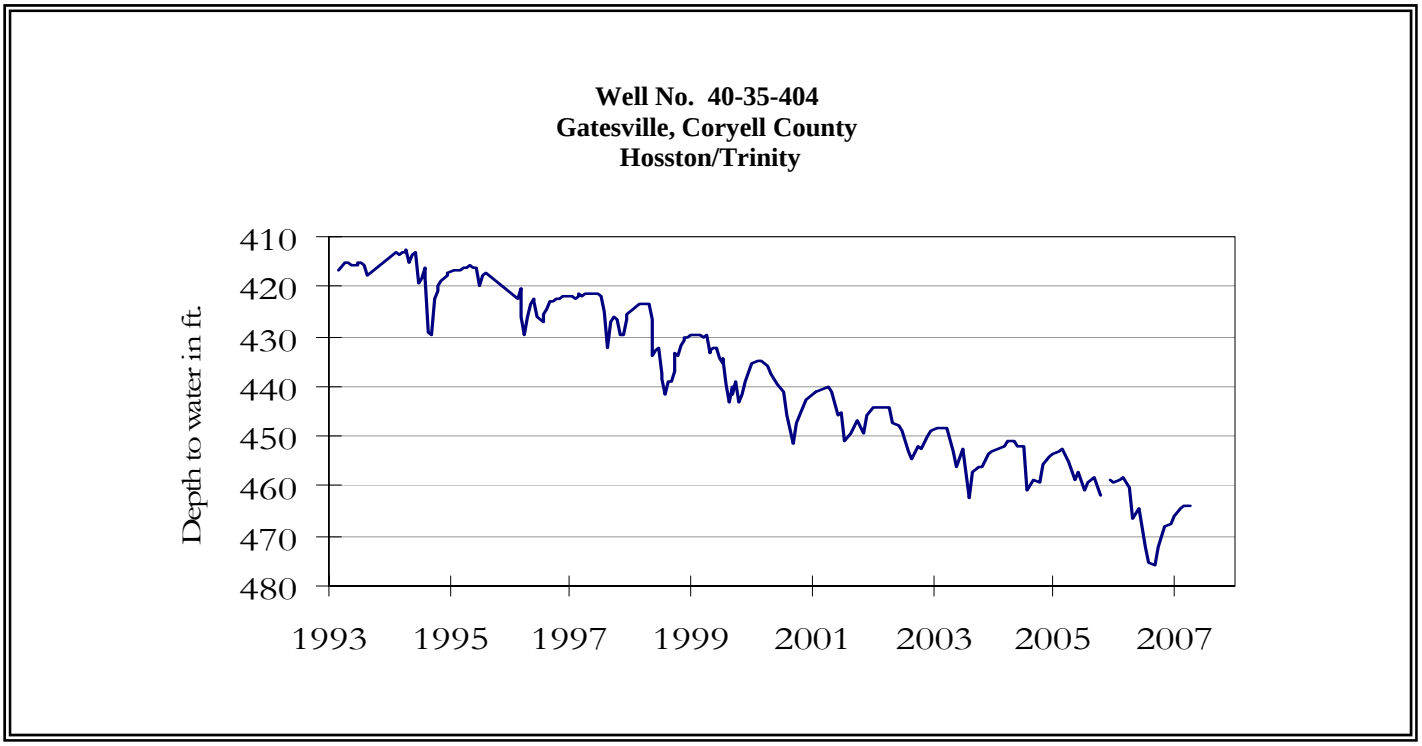
MARCH GROUND WATER LEVELS IN OBSERVATION WELLS



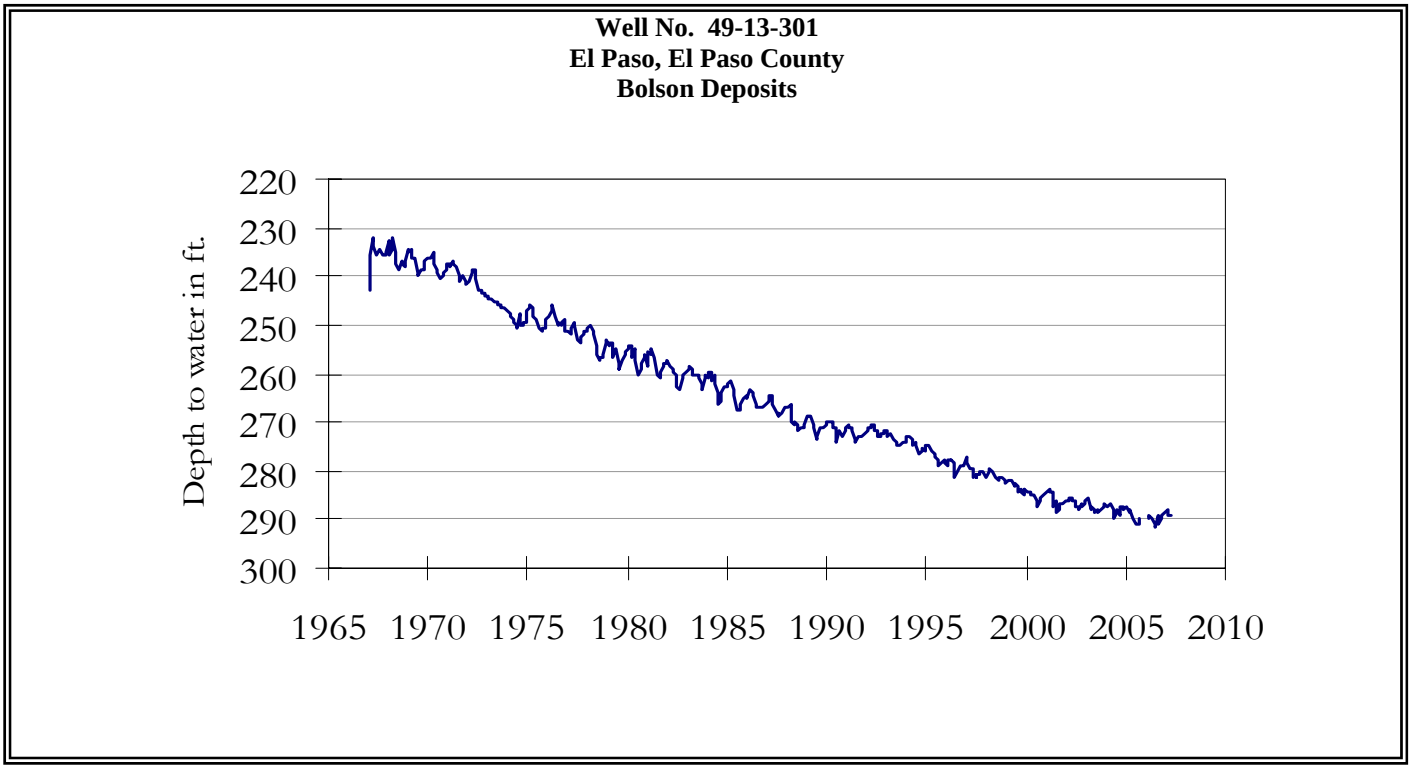
The late March water-level measurement in this Ogallala Aquifer well, elevation 3,816 feet above sea level, was 267.15 feet below land surface. This measurement was 0.04 feet below last month's measurement, 1.89 feet below last year's measurement, and 111.15 feet below the initial measurement recorded in 1968. No water level measurements were recorded for September through December 2005.



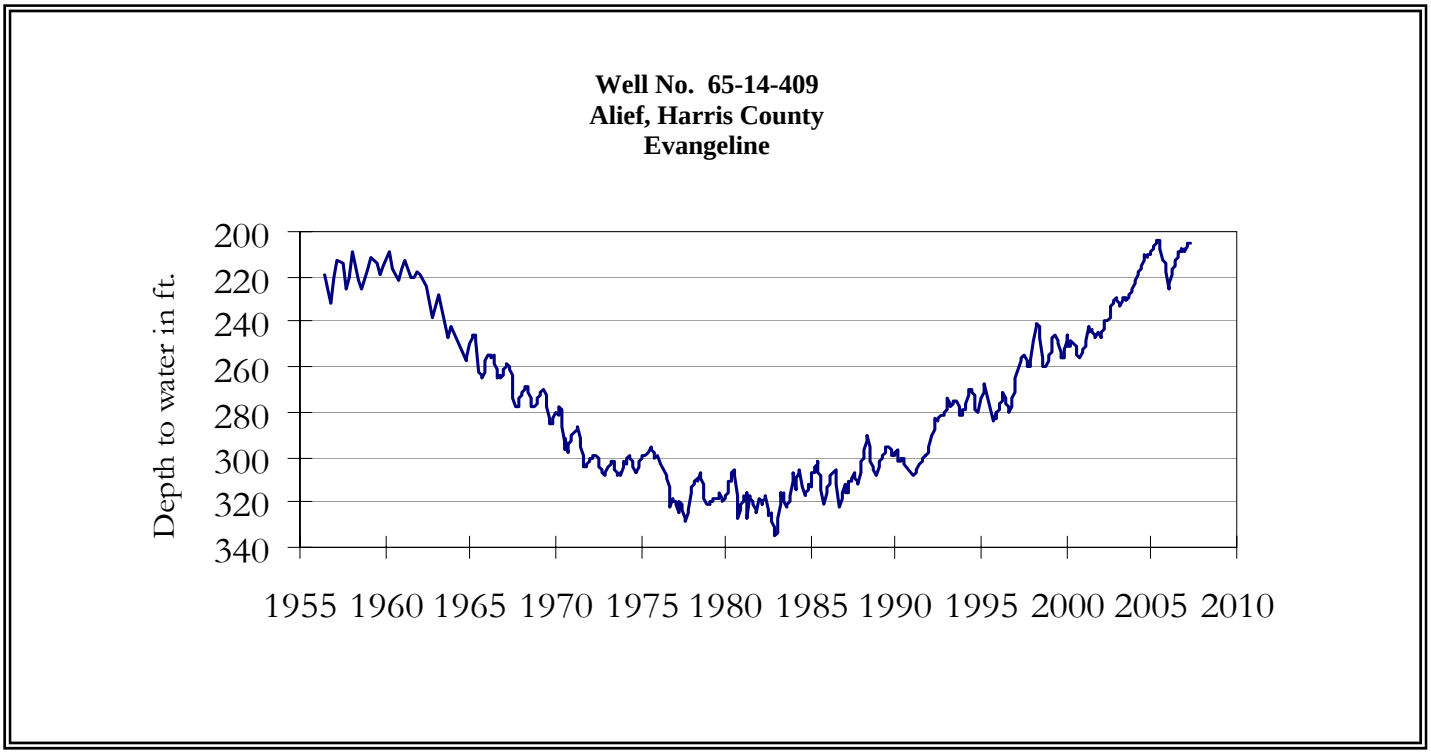
The late March water-level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 442.82 feet below land surface. This measurement was 1.02 feet below last month's measurement, 1.00 feet above last year's measurement, and 64.82 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September or October 2005.



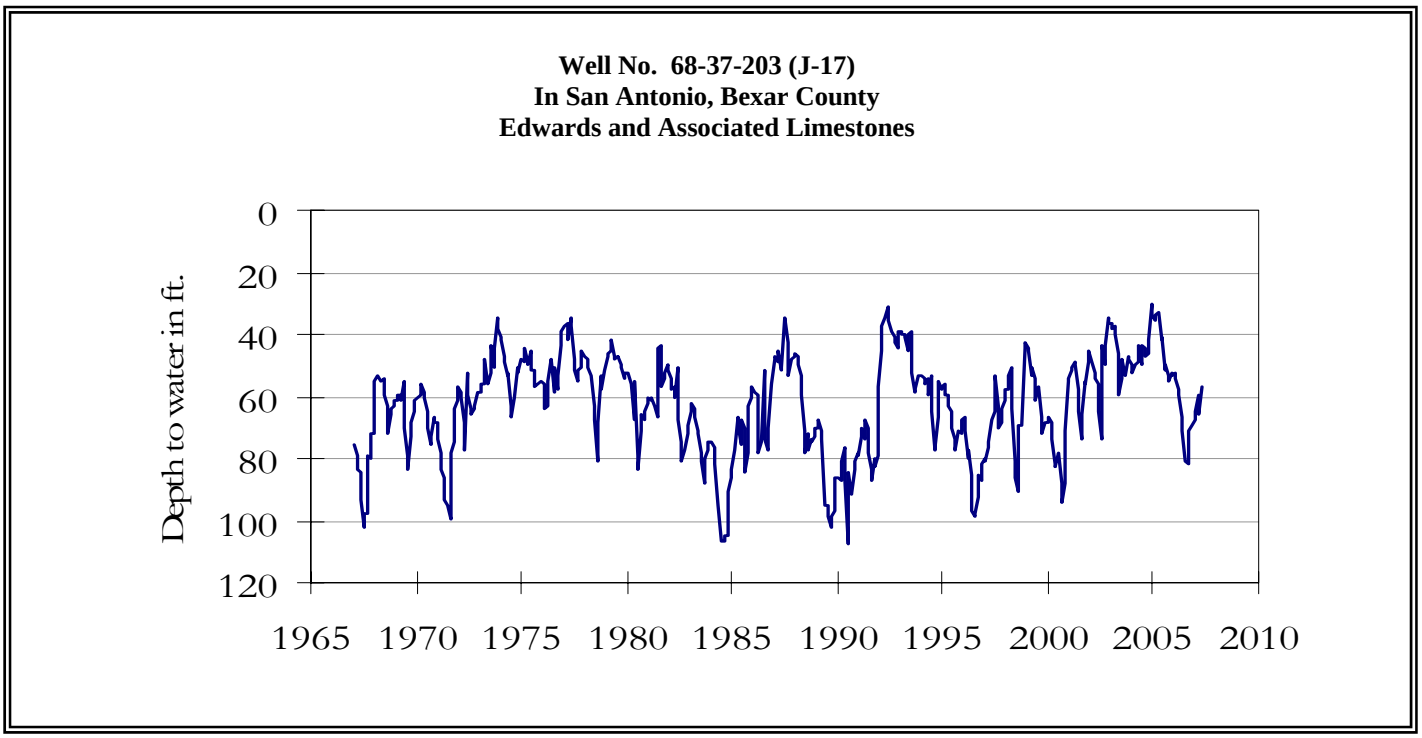
The late March water-level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 463.89 feet below land surface. This water level was 0.21 feet above last month's measurement, 3.49 feet below last year's measurement, and 171.89 feet below the initial measurement recorded in 1955. No water level measurement was recorded for October 2005.



The late March water-level measurement in this Hueco Bolson Aquifer well, elevation 3,882 feet above sea level, was 289.01 feet below land surface. This was 0.24 feet above last month's measurement, 1.01 feet above last year's measurement, and 57.11 feet below the initial measurement in 1964. No water level measurements were recorded for October or December 2005.

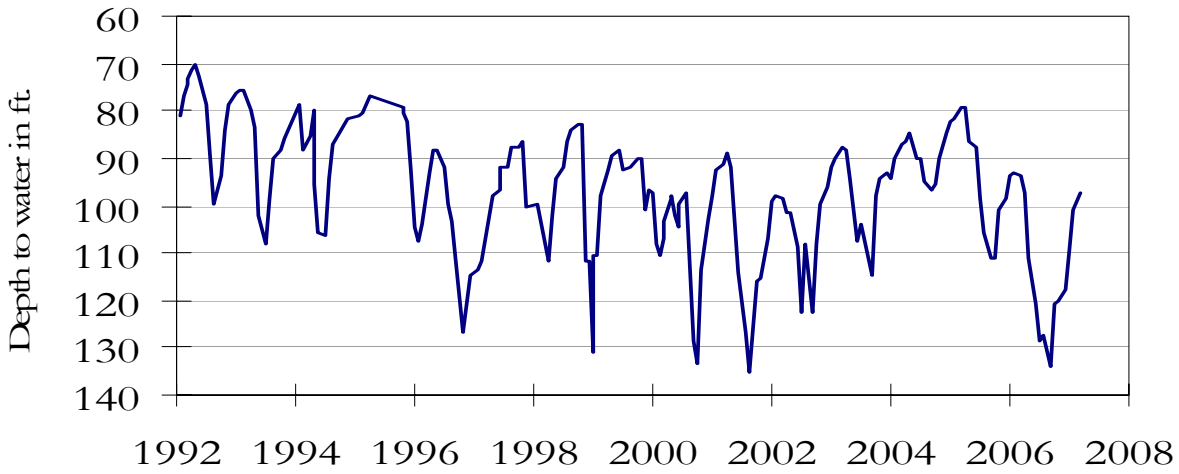


The late March water-level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level, was 204.61 feet below land surface. This was 0.91 feet above last month's measurement, 12.13 feet above last year's measurement, and 69.11 feet below the initial measurement recorded in 1947.



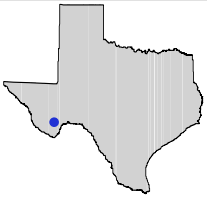
The late March water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 56.90 feet below land surface. This was 8.80 feet above last month's measurement, 2.28 feet below last year's measurement, and 10.26 feet below the initial measurement recorded in 1962.

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



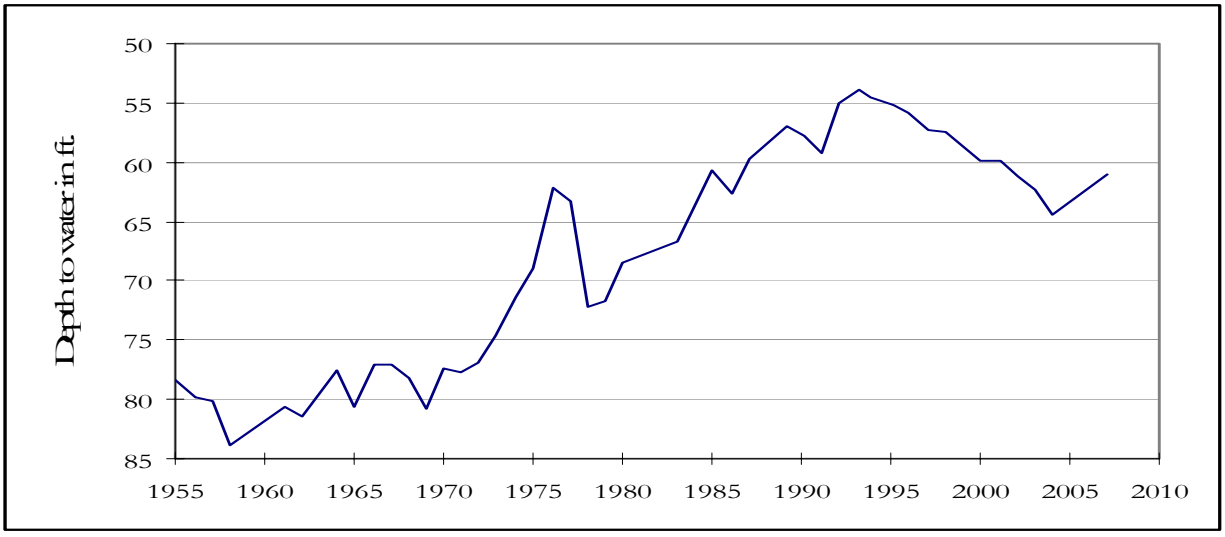
The water-level measurement was not available for this Carrizo Aquifer well (recorder under repair). The graph presented is from last month's report.

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. 51-27-302
Jeff Davis County



This water level observation well, located 40 miles west of Fort Davis, at an elevation of 4,254 feet ASL, was completed in the Igneous Aquifer. Water from this aquifer is mainly used to meet municipal and domestic needs for the cities of Alpine, Fort Davis, and Marfa and some agricultural needs.

March, 2007
Water level measurements were available for six of the seven key monitoring wells. Water levels rose in four of the monitoring wells since the beginning of March, ranging from 0.21 feet in the Coryell Co. Trinity well to 8.80 feet in the Bexar Co. Edwards well. Water levels declined in the remaining monitoring wells, ranging from 0.04 feet in the Castro Co. Ogallala well to 1.02 feet in the Tarrant Co. Paluxy well. The J-17 well recorded a water level of 56.90 feet below land surface. This water level is 23.10 feet above the Stage 1 critical management level.

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