Texas Water Development Board

WATER Conditions

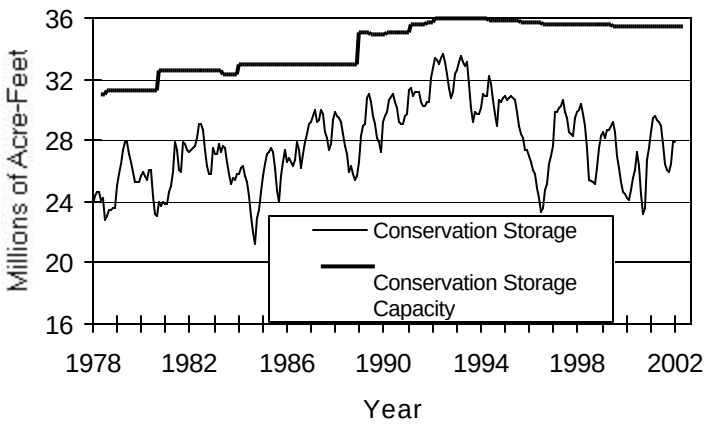
RESERVOIR STORAGE

January 2002

Near the end of January, the 77 reservoirs monitored for this report held 27.9 million acre-feet in conservation storage, or 80.9 percent of the conservation storage capacity of the State's major reservoirs. Statewide total storage is near normal for this time of year. Storage decreased very slightly (-0.1% of conservation storage capacity) during the month. Compared to January 2001, storage is down 0.7 million acre-feet (-2.1%).

For the month, storage remained nearly constant in all climatic Regions. The East (97%), South Central (100%), and Upper Coast (99%) are all at or near capacity, while the High Plains (43%) Low Rolling Plains (32%), Trans-Pecos (13%), and Edwards Plateau (48%) Regions remained low. Storage is at 100% in 29 reservoirs, the same as last month. Compared to this time last year, storage decreased significantly in the High Plains (-15%), Trans-Pecos (-9%) and Edwards Plateau (-10%) 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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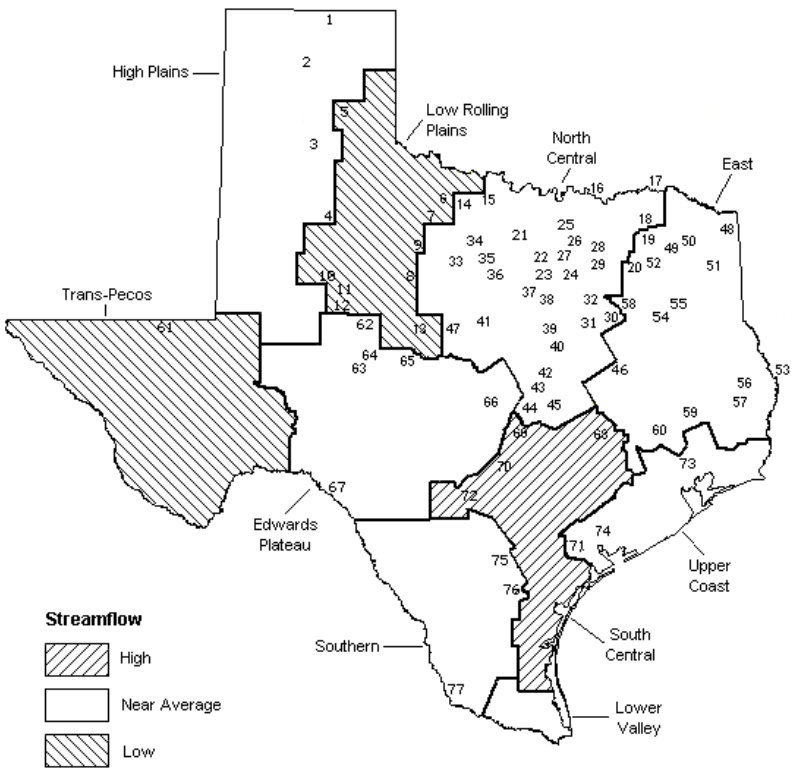
STREAMFLOW

Of 29 reporting index stations in January, computed 30-day mean flows were high (5% - 30% exceedance) at 3 stations, near normal (30% - 70% exceedance) at 17 stations, and low (70% - 95% exceedance) at 9 stations. In comparison to December, flows increased at 6 index stations, decreased at 22 and remained unchanged at 1.

On a regional basis, flows in January were high in the South Central Region, near normal in the High Plains, North Central, East, Edwards Plateau, Upper Coast and Southern Regions and low in the Low Rolling Plains and Trans-Pecos Regions.

JANUARY 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 January 2002 (acre-feet)	(%)	Change since Late December 2001 (acre-feet)	(%)	Change since Late January 2001 (acre-feet)	(%)
HIGH PLAINS								
Palo Duro Reservoir	1	60,900	5,870	10	-300	0	-6,890	-11
Lake Meredith (Texas)	2	500,000	253,100	51	-3,500	-1	-82,800	-17
Lake Meredith (Texas and Oklahoma)	(2)	779,560	253,100	32	-3,500	0	-82,800	-11
MacKenzie Reservoir	3	46,250	8,450	18	-110	0	450	1
White River Lake	4	31,850	7,460	23	-240	-1	-4,130	-13
TOTAL		639,000	274,880	43	-4,150	-1	-93,370	-15
LOW ROLLING PLAINS								
Greenbelt Reservoir	5	58,200	24,230	42	110	0	600	1
Lake Kemp	6	319,600	133,700	42	-2,000	-1	-13,000	-4
Miller's Creek Reservoir	7	27,890	12,580	45	-260	-1	4,730	17
Fort Phantom Hill Reservoir	8	70,030	30,250	43	-530	-1	-8,240	-12
Lake Stamford	9	52,700	15,850	30	-420	-1	7,040	13
Lake J. B. Thomas	10	202,300	20,000	10	-1,220	-1	-6,260	-3
Lake Colorado City	11	30,800	18,980	62	-220	-1	-1,820	-6
Champion Creek Reservoir	12	41,600	2,140	5	-40	0	-2,270	-5
Hords Creek Lake	13	8,600	3,070	36	-80	-1	-1,030	-12
TOTAL		811,720	260,800	32	-4,660	-1	-20,250	-2
NORTH CENTRAL								
Lake Kickapoo	14	106,000	70,610	67	-1,290	-1	10,320	10
Lake Arrowhead	15	262,100	153,400	59	-1,000	0	34,400	13
Lake Texoma	16	2,722,300	2,465,000	91	-153,000	-6	-158,000	-6
Pat Mayse Lake	17	124,500	124,500	100	0	0	0	0
Cooper Lake	18	273,000	273,000	100	0	0	0	0
Lake Sulphur Springs	19	17,710	17,710	100	4,200	24	0	0
Lake Tawakoni	20	936,200	917,600	98	-1,600	0	-18,600	-2
Bridgeport Reservoir	21	374,830	286,200	76	-3,300	-1	71,900	19
Eagle Mountain Reservoir	22	178,380	143,800	81	-2,400	-1	19,100	11
Benbrook Lake	23	88,200	74,640	85	4,610	5	-1,950	-2
Joe Pool Lake	24	175,800	175,800	100	0	0	0	0
Ray Roberts Lake	25	798,760	758,700	95	4,000	1	155,100	19
Lewisville Lake	26	555,000	517,300	93	8,300	1	23,100	4
Grapevine Lake	27	187,700	145,200	77	2,000	1	-37,100	-20
Lavon Lake	28	443,800	372,600	84	35,300	8	-71,200	-16
Lake Ray Hubbard	29	413,420	413,420	100	0	0	0	0
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	49,160	92	-4,420	-8	-910	-2
Hubbard Creek Reservoir	33	317,800	114,100	36	-5,100	-2	-26,600	-8
Lake Graham	34	45,000	33,410	74	-550	-1	-4,470	-10
Possum Kingdom Lake	35	551,820	458,800	83	-7,400	-1	-28,700	-5
Lake Palo Pinto	36	27,650	14,950	54	-740	-3	2,970	11
Lake Granbury	37	135,680	119,300	88	4,200	3	-16,380	-12
Lake Pat Cleburne	38	25,300	24,490	97	4,060	16	-810	-3
Whitney Lake	39	622,800	476,300	76	4,700	1	-48,500	-8
Waco Lake	40	144,500	144,500	100	0	0	0	0
Proctor Lake	41	55,590	36,020	65	-860	-2	14,710	26
Belton Lake	42	434,500	434,500	100	0	0	0	0
Stillhouse Hollow Lake	43	226,060	226,060	100	0	0	0	0
Lake Georgetown	44	37,010	37,010	100	0	0	440	1
Granger Lake	45	54,280	54,280	100	0	0	0	0
Lake Limestone	46	215,750	215,750	100	1,950	1	0	0
Lake Brownwood	47	143,400	108,300	76	-700	0	-300	0
TOTAL		11,908,050	10,616,040	89	-109,040	-1	-81,480	-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 January 2002 (acre-feet)	(%)	Change since Late December 2001 (acre-feet)	(%)	Change since Late January 2001 (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	250,800	100	-1,200	0	-1,200	0
Lake Fork Reservoir	52	635,200	635,200	100	0	0	0	0
Toledo Bend Reservoir	53	4,472,900	4,231,000	95	59,000	1	-241,900	-5
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	45,050	48	11,880	13	-24,740	-26
Cedar Creek Reservoir	58	637,050	637,050	100	150	0	0	0
Lake Livingston	59	1,750,000	1,750,000	100	0	0	0	0
Lake Conroe	60	429,900	419,300	98	1,300	0	-3,600	-1
TOTAL		12,044,350	11,741,500	97	71,130	1	-271,440	-2
TRANS-PECOS								
Red Bluff Reservoir	61	307,000	39,450	13	1,500	0	-28,970	-9
TOTAL		307,000	39,450	13	1,500	0	-28,970	-9
EDWARDS PLATEAU								
E. V. Spence Reservoir	62	488,760	58,540	12	-2,290	0	-25,800	-5
Twin Buttes Reservoir	63	177,800	8,210	5	360	0	-140	0
O.C. Fisher Lake	64	119,200	4,390	4	-90	0	-5,540	-5
O. H. Ivie Reservoir	65	554,340	254,200	46	-1,900	0	-63,700	-11
Lake Buchanan	66	896,980	776,900	87	8,500	1	31,800	4
Amistad Reservoir (Texas)	67	1,771,030	813,000	46	36,000	2	-334,000	-19
Amistad Reservoir (Texas and Mexico)	(67)	3,151,300	978,000	31	29,000	1	-351,000	-11
TOTAL		4,008,110	1,915,240	48	40,580	1	-397,380	-10
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	0	0
Canyon Lake	70	385,600	384,900	100	-700	0	-700	0
Coleto Creek Reservoir	71	35,060	32,120	92	270	1	520	1
Medina Lake	72	254,000	254,000	100	0	0	53,200	21
TOTAL		1,973,820	1,970,180	100	-430	0	53,020	3
UPPER COAST								
Lake Houston	73	128,860	128,860	100	0	0	0	0
Lake Texana	74	157,900	155,100	98	-2,800	-2	-2,800	-2
TOTAL		286,760	283,960	99	-2,800	-1	-2,800	-1

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

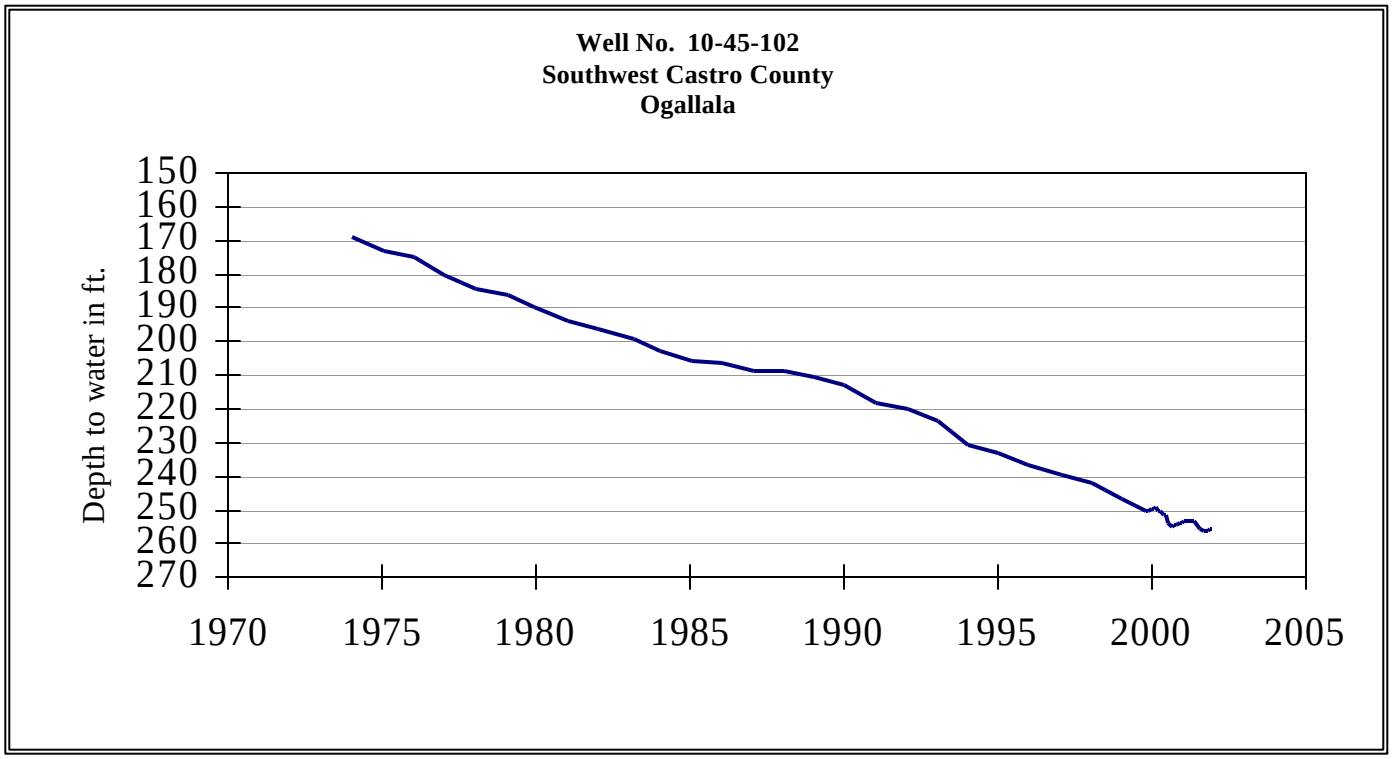
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late January 2002 (acre-feet)	(%)	Change since Late December 2001 (acre-feet)	(%)	Change since Late January 2001 (acre-feet)	(%)
			SOUTHERN					
Choke Canyon Reservoir	75	695,260	278,000	40	-5,000	-1	5,000	1
Lake Corpus Christi	76	241,240	241,240	100	0	0	135,940	56
Falcon Reservoir (Texas)	77	1,555,120	257,000	17	-36,000	-2	-24,000	-2
Falcon Reservoir (Texas and Mexico)	(77)	2,653,290	428,000	16	-34,000	-1	95,000	4
TOTAL		2,491,620	776,240	31	-41,000	-2	116,940	5
STATE TOTAL		34,470,430	27,878,290	81	-48,870	0	-725,730	-2

Note:

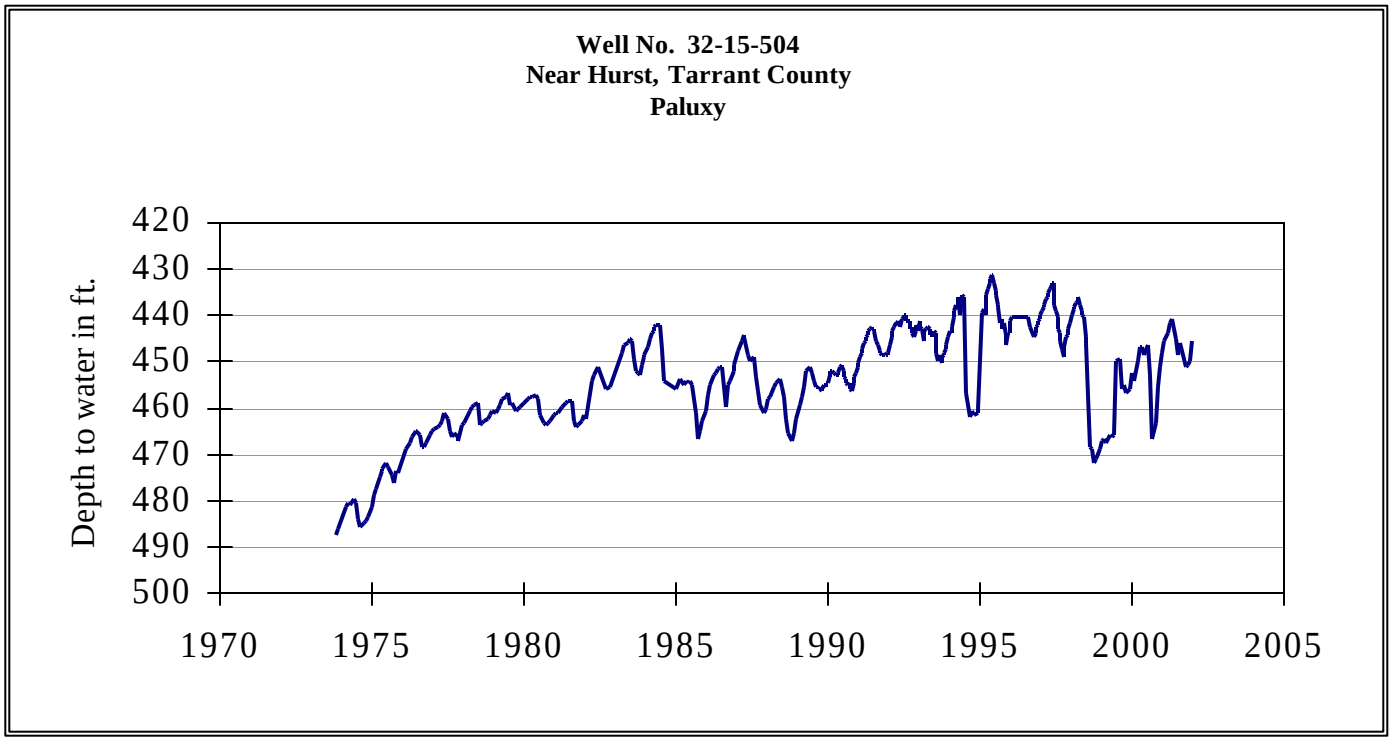
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included 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). Figures in parentheses for Lake Meredith represent the total conservation storage excluding 58,014 acre-feet of dead storage and are not included in State total. Preliminary figures are shown for the United States' share of conservation storage in International Amistad and International Falcon Reservoirs; the estimates may be subject to revision on completion of international water accounting. Texas (United States' share) and Mexico and are not included in State total.

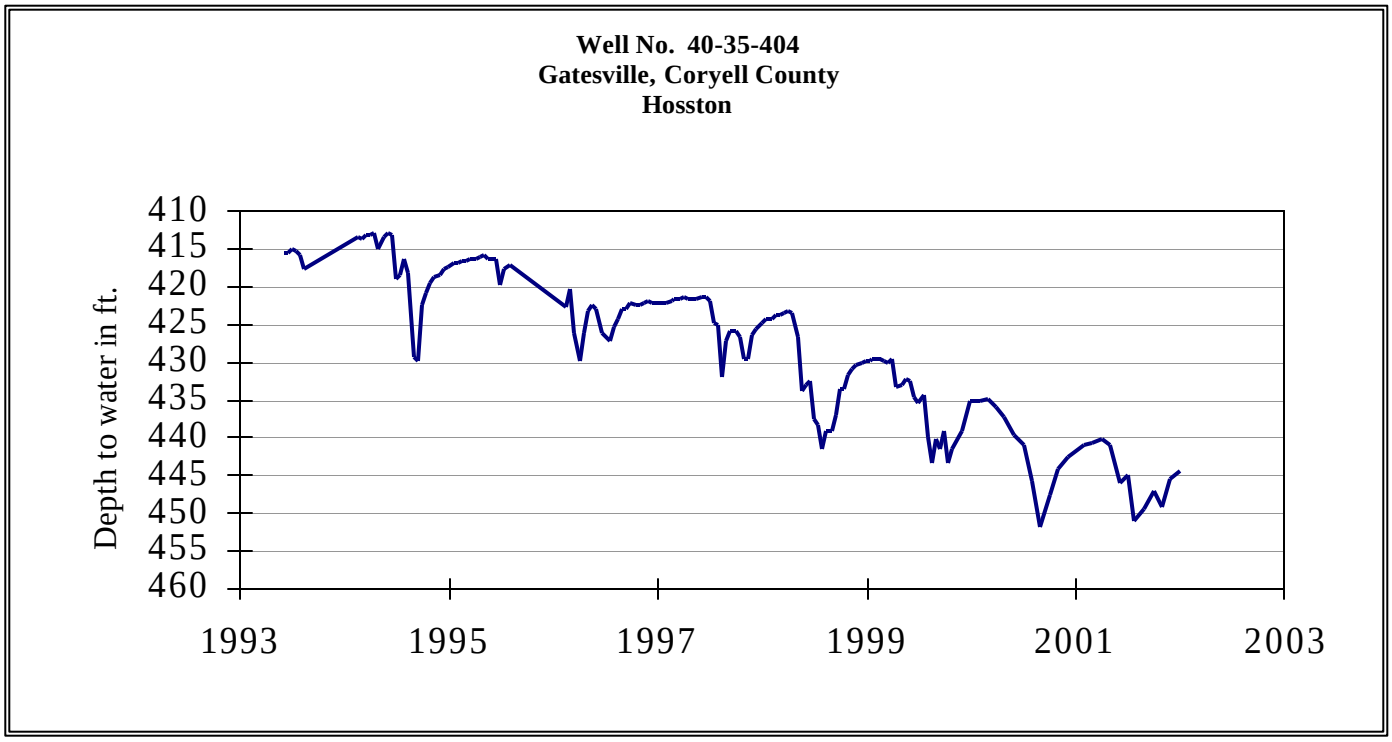
JANUARY GROUND WATER LEVELS IN OBSERVATION WELLS



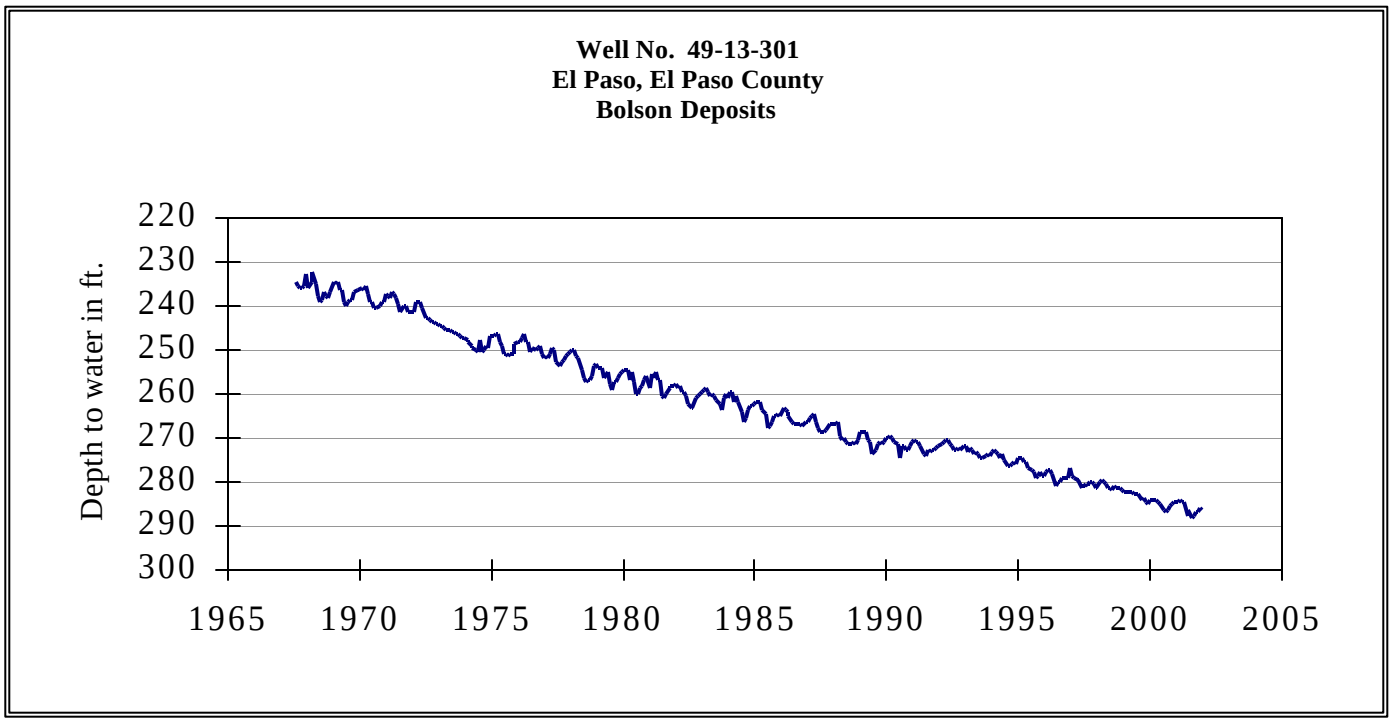
The late January water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 255.25 feet below land surface. This measurement was 0.05 feet above last month's measurement, 1.79 feet below last year's measurement, and 99.25 feet below the initial measurement recorded in 1968.



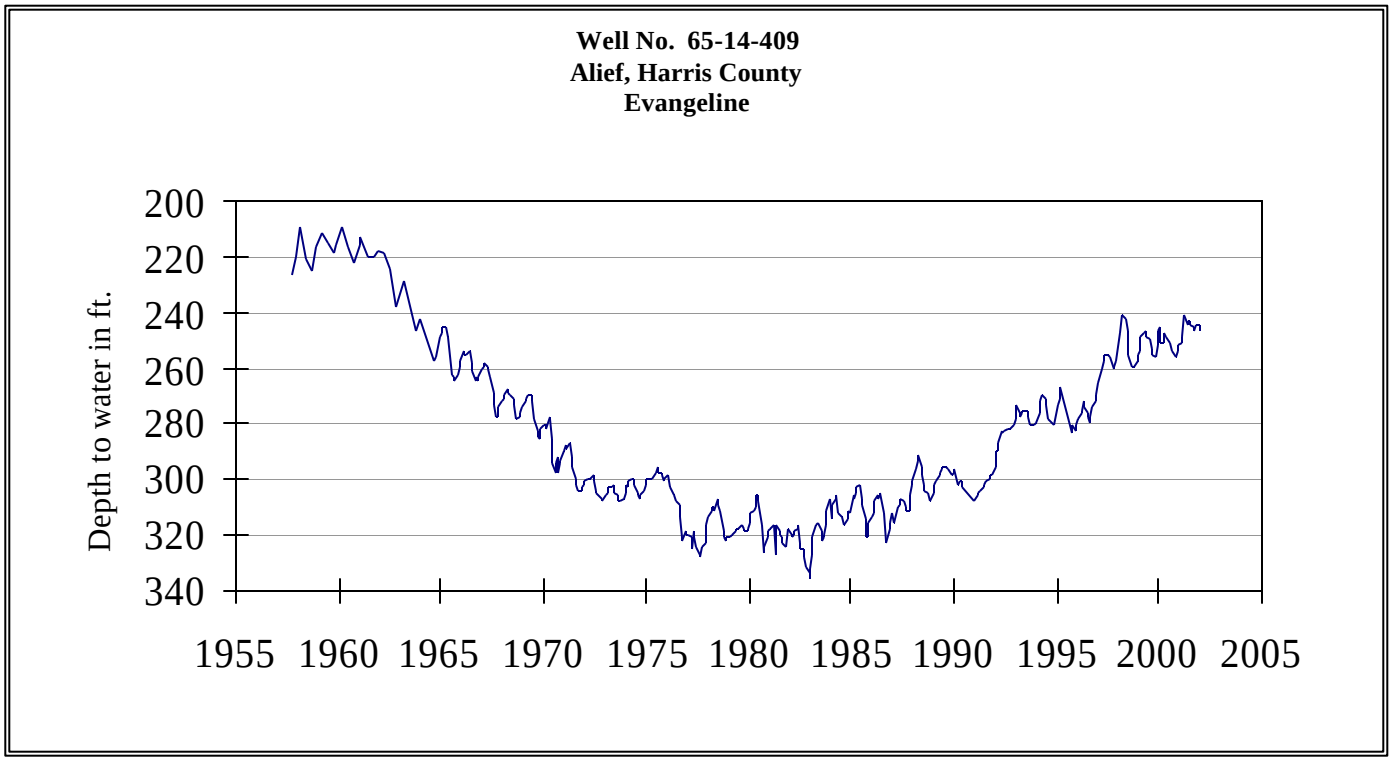
The late January water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 442.06 feet below land surface. This measurement was 3.31 feet above last month's measurement, 3.56 feet above last year's measurement, and 48.67 feet below the initial measurement recorded in 1953.



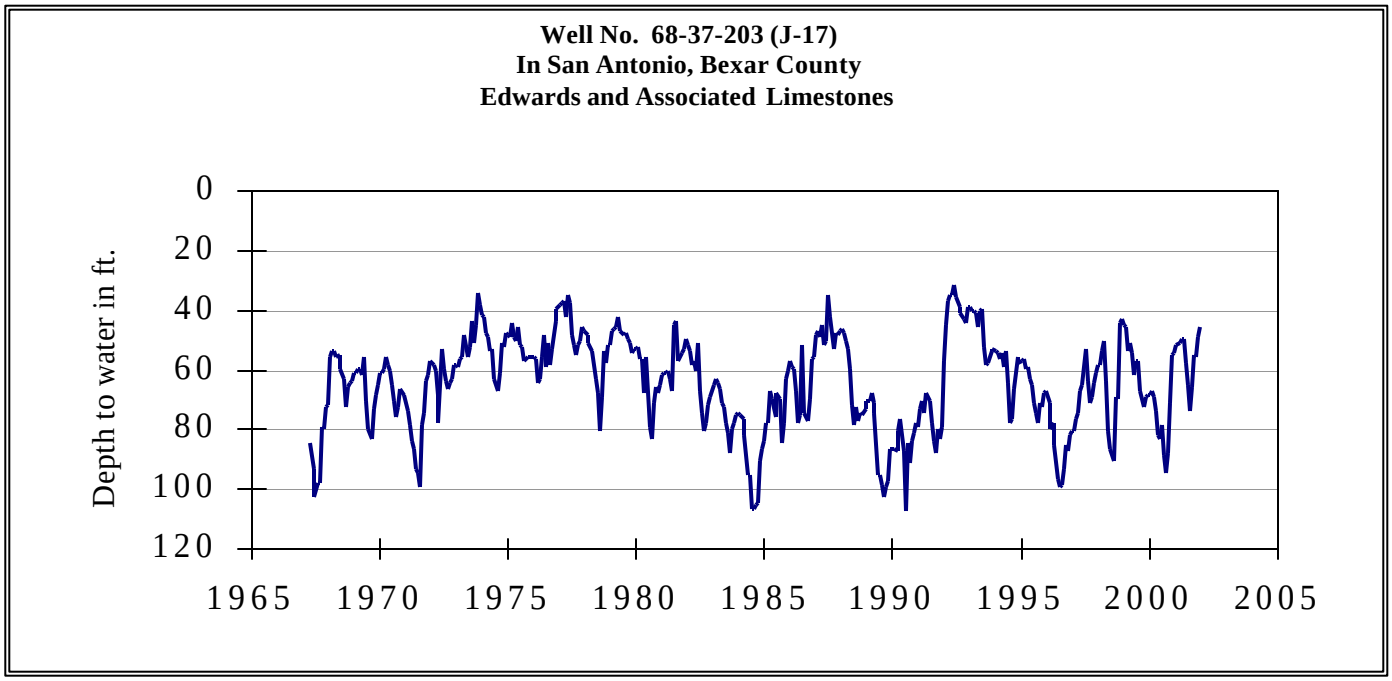
The late January water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 444.45 feet below land surface. This measurement was 0.04 feet below last month's measurement, 3.45 feet below last year's measurement, and 152.45 feet below the initial measurement recorded in 1955.



The late January water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 286.27 feet below land surface. This was 0.08 feet above last month's measurement, 1.88 feet below last year's measurement, and 54.37 feet below the initial measurement recorded in 1964.

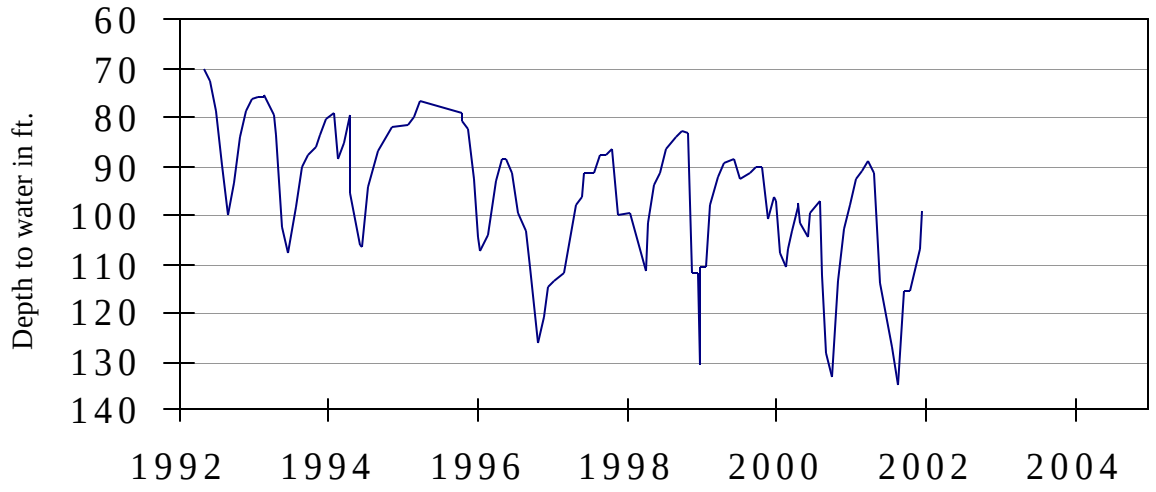


The late January water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 244.66 feet below land surface. This was 2.21 feet above last month's measurement, 5.82 feet above last year's measurement, and 141.43 feet below the initial measurement recorded in 1947



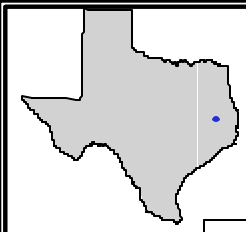
The late January water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 49.0 feet below land surface. This was 3.4 feet below last month's measurement, 2.20 feet above last year's measurement, and 10.62 feet above the initial measurement recorded in 1962.

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



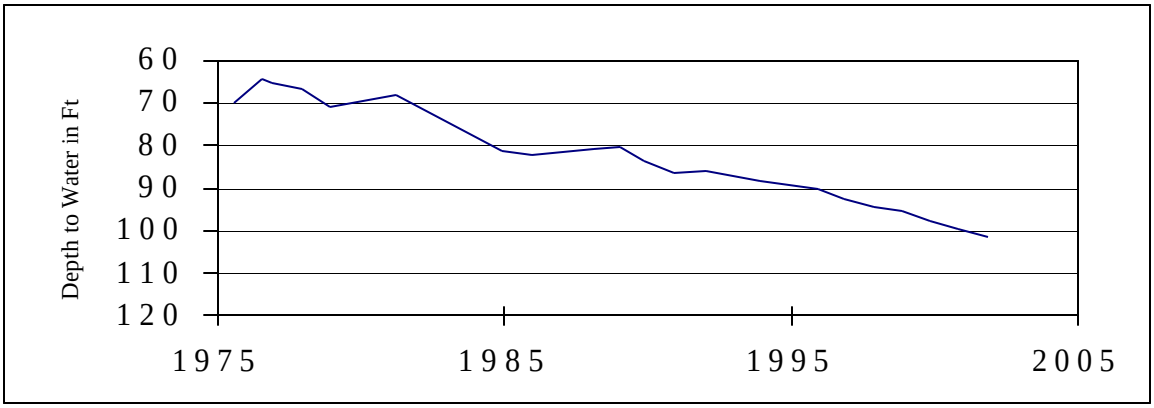
The late January water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 97.89 feet below land surface. This measurement was 1.31 feet above last month's measurement, 5.28 feet above last year's measurement, and 16.64 feet below the initial measurement recorded in 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 60-39-404
San Jacinto County



This 380-foot deep domestic well, located in south-central San Jacinto County at an elevation of 240 feet above sea level, was completed in the Evangeline Formation of the Gulf Coast aquifer. The water level has dropped 30 feet since the initial measurement was recorded in 1975.

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