Texas Water Development Board

WATER Conditions

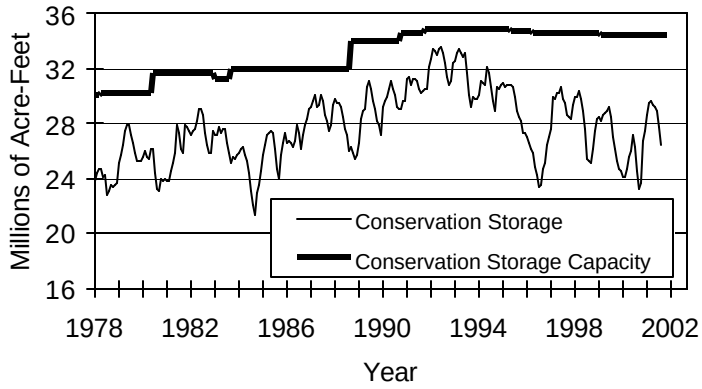
RESERVOIR STORAGE

August 2001

Near the end of August, the 77 reservoirs monitored for this report held 26.5 million acre-feet in conservation storage, or 76.8 percent of the conservation storage capacity of the State's major reservoirs. Statewide storage decreased by 1.25 million acre-feet (-3.6% of conservation storage capacity) during the month. Compared to August 2000, storage is up 1.97 million acre-feet (+5.7%), but below the historical median for this time of year.

Storage decreased in most Regions this month; however the Southern Region increased marginally (1.7%) and the Upper Coast Region reached capacity (100%). The Trans-Pecos (10.7%) and Southern (22.7%) Regions remained below 25%. Storage is at 100% in 14 reservoirs, two more than last month. Storage is down relative to this time last year in the High Plains (-10.9%) and Trans-Pecos (-6.4%) 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.

PO BOX 13231 • 1700 N. Congress Avenue • Austin, TX 78711-3231
Telephone (512) 463-7847 • Telefax (512) 475-2053 • 1-800-RELAYTX (for the hearing impaired)

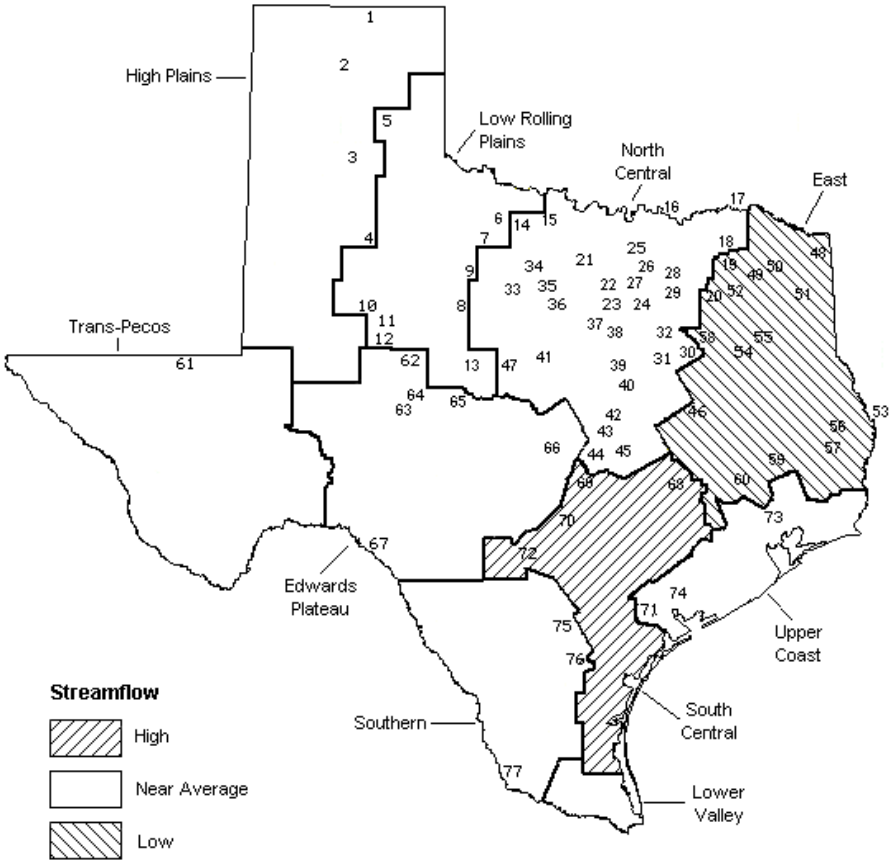
STREAMFLOW

Of 29 reporting index stations in August, computed 30-day mean flows were high (5% - 30% exceedance) at 8 stations, near normal (30% - 70% exceedance) at 8 stations, low (70% - 95% exceedance) at 11 stations, and very high (95% - 100%) at 2 stations. In comparison to July, flows increased at 14 index stations, decreased at 13 stations, and remain unchanged at 2 stations.

On a regional basis, flows in August were low in East Texas, high in South Central and normal in all other Regions. There were no stations reporting very low flows, but very high flows were reported on Cibolo Creek and the Lavaca River.

AUGUST 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 August 2001 (acre-feet)	(%)	Change since Late July 2001 (acre-feet)	(%)	Change since Late August 2000 (acre-feet)	(%)
HIGH PLAINS								
Palo Duro Reservoir	1	60,900	8,100	13	100	0	-9,630	-16
Lake Meredith (Texas)	2	500,000	298,200	60	-16,000	-3	-56,500	-11
Lake Meredith (Texas and Oklahoma)	(2)	779,560	298,200	38	-16,000	-2	-56,500	-7
MacKenzie Reservoir	3	46,250	9,140	20	0	0	590	1
White River Lake	4	31,850	8,740	27	-460	-1	-4,340	-14
TOTAL		639,000	324,180	51	-16,360	-3	-69,880	-11
LOW ROLLING PLAINS								
Greenbelt Reservoir	5	58,200	23,880	41	-620	-1	-780	-1
Lake Kemp	6	319,600	138,100	43	-19,300	-6	19,000	6
Miller's Creek Reservoir	7	27,890	13,870	50	-870	-3	6,620	24
Fort Phantom Hill Reservoir	8	70,030	31,060	44	-3,030	-4	7,250	10
Lake Stamford	9	52,700	12,580	24	-1,610	-3	4,250	8
Lake J. B. Thomas	10	202,300	16,510	8	-1,100	-1	-13,600	-7
Lake Colorado City	11	30,800	17,590	57	-350	-1	-6,050	-20
Champion Creek Reservoir	12	41,600	2,220	5	-130	0	-2,450	-6
Hords Creek Lake	13	8,600	3,550	41	-250	-3	-110	-1
TOTAL		811,720	259,360	32	-27,260	-3	14,130	2
NORTH CENTRAL								
Lake Kickapoo	14	106,000	83,340	79	-5,740	-5	40,560	38
Lake Arrowhead	15	262,100	168,200	64	-11,300	-4	69,460	27
Lake Texoma	16	2,722,300	2,211,000	81	-183,000	-7	-189,685	-7
Pat Mayse Lake	17	124,500	112,200	90	-4,300	-3	1,010	1
Cooper Lake	18	273,000	273,000	100	0	0	21,447	8
Lake Sulphur Springs	19	17,710	11,480	65	-80	0	-4,735	-27
Lake Tawakoni	20	936,200	788,700	84	-31,900	-3	-102,200	-11
Bridgeport Reservoir	21	374,830	320,700	86	-27,600	-7	133,025	35
Eagle Mountain Reservoir	22	178,380	158,700	89	-1,200	-1	48,072	27
Benbrook Lake	23	88,200	62,650	71	-10,590	-12	670	1
Joe Pool Lake	24	175,800	175,800	100	0	0	8,200	5
Ray Roberts Lake	25	798,760	772,900	97	-19,600	-2	320,279	40
Lewisville Lake	26	555,000	555,000	100	0	0	235,100	42
Grapevine Lake	27	187,700	155,900	83	-10,000	-5	39,900	21
Lavon Lake	28	443,800	337,600	76	-47,700	-11	-19,875	-4
Lake Ray Hubbard	29	413,420	372,100	90	-13,700	-3	-35,133	-8
Richland-Chambers Creek Lake	30	1,103,820	1,059,000	96	-36,000	-3	-6,005	-1
Navarro Mills Lake	31	55,810	48,360	87	-4,150	-7	-231	0
Bardwell Lake	32	53,580	41,390	77	-3,070	-6	-7,150	-13
Hubbard Creek Reservoir	33	317,800	130,600	41	-8,100	-3	-22,800	-7
Lake Graham	34	45,000	36,670	81	-2,440	-5	4,490	10
Possum Kingdom Lake	35	551,820	463,200	84	-32,500	-6	6,500	1
Lake Palo Pinto	36	27,650	18,690	68	-2,280	-8	-2,849	-10
Lake Granbury	37	135,680	127,400	94	5,600	4	7,930	6
Lake Pat Cleburne	38	25,300	20,790	82	-1,820	-7	-1,339	-5
Whitney Lake	39	622,800	483,200	78	-68,700	-11	-38,900	-6
Waco Lake	40	144,500	130,500	90	-7,200	-5	-4,200	-3
Proctor Lake	41	55,590	42,180	76	-6,670	-12	33,010	59
Belton Lake	42	434,500	434,500	100	7,300	2	59,400	14
Stillhouse Hollow Lake	43	226,060	226,060	100	360	0	20,788	9
Lake Georgetown	44	37,010	32,870	89	-2,660	-7	15,280	41
Granger Lake	45	54,280	54,280	100	0	0	7,560	14
Lake Limestone	46	215,750	205,200	95	-7,500	-3	8,600	4
Lake Brownwood	47	143,400	109,300	76	-6,400	-4	20,540	14
TOTAL		11,908,050	10,223,460	86	-542,940	-5	666,719	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 August 2001 (acre-feet)	(%)	Change since Late July 2001 (acre-feet)	(%)	Change since Late August 2000 (acre-feet)	(%)
EAST								
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0
Lake Cypress Springs	49	66,800	66,120	99	-680	-1	860	1
Lake Bob Sandlin	50	202,300	192,100	95	-6,000	-3	-10,200	-5
Lake O' the Pines	51	252,000	252,000	100	0	0	9,416	4
Lake Fork Reservoir	52	635,200	635,200	100	0	0	0	0
Toledo Bend Reservoir	53	4,472,900	3,844,000	86	-310,000	-7	-97,000	-2
Lake Palestine	54	411,300	396,500	96	-7,000	-2	22,300	5
Lake Tyler	55	73,700	73,700	100	0	0	13,201	18
Sam Rayburn Reservoir	56	2,876,300	2,784,000	97	-92,300	-3	655,000	23
B. A. Steinhagen Lake	57	94,200	78,380	83	-4,580	-5	-7,911	-8
Cedar Creek Reservoir	58	637,050	591,300	93	-15,500	-2	-3,383	-1
Lake Livingston	59	1,750,000	1,746,000	100	7,000	0	99,000	6
Lake Conroe	60	429,900	409,800	95	800	0	56,800	13
TOTAL		12,044,350	11,211,800	93	-428,260	-4	738,083	6
TRANS-PECOS								
Red Bluff Reservoir	61	307,000	32,830	11	-3,580	-1	-19,510	-6
TOTAL		307,000	32,830	11	-3,580	-1	-19,510	-6
EDWARDS PLATEAU								
E. V. Spence Reservoir	62	488,760	62,760	13	-4,860	-1	-26,390	-5
Twin Buttes Reservoir	63	177,800	8,280	5	2,280	1	7,167	4
O.C. Fisher Lake	64	119,200	4,600	4	-1,090	-1	-3,280	-3
O. H. Ivie Reservoir	65	554,340	270,300	49	-12,400	-2	-31,400	-6
Lake Buchanan	66	896,980	753,500	84	-54,000	-6	254,200	28
Amistad Reservoir (Texas)	67	1,771,030	717,000	40	-164,000	-9	-146,000	-8
Amistad Reservoir (Texas and Mexico)	(67)	3,151,300	899,000	29	-177,000	-6	-130,000	-4
TOTAL		4,008,110	1,816,440	45	-234,070	-6	54,297	1
SOUTH CENTRAL								
Somerville Lake	68	155,060	149,100	96	-3,900	-3	43,621	28
Lake Travis	69	1,144,100	968,400	85	-63,600	-6	356,200	31
Canyon Lake	70	385,600	385,600	100	6,100	2	48,957	13
Coleto Creek Reservoir	71	35,060	32,690	93	6,070	17	6,780	19
Medina Lake	72	254,000	223,800	88	-9,100	-4	106,000	42
TOTAL		1,973,820	1,759,590	89	-64,430	-3	561,558	28
UPPER COAST								
Lake Houston	73	128,860	128,860	100	0	0	22,260	17
Lake Texana	74	157,900	157,900	100	21,800	14	27,400	17
TOTAL		286,760	286,760	100	21,800	8	49,660	17

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

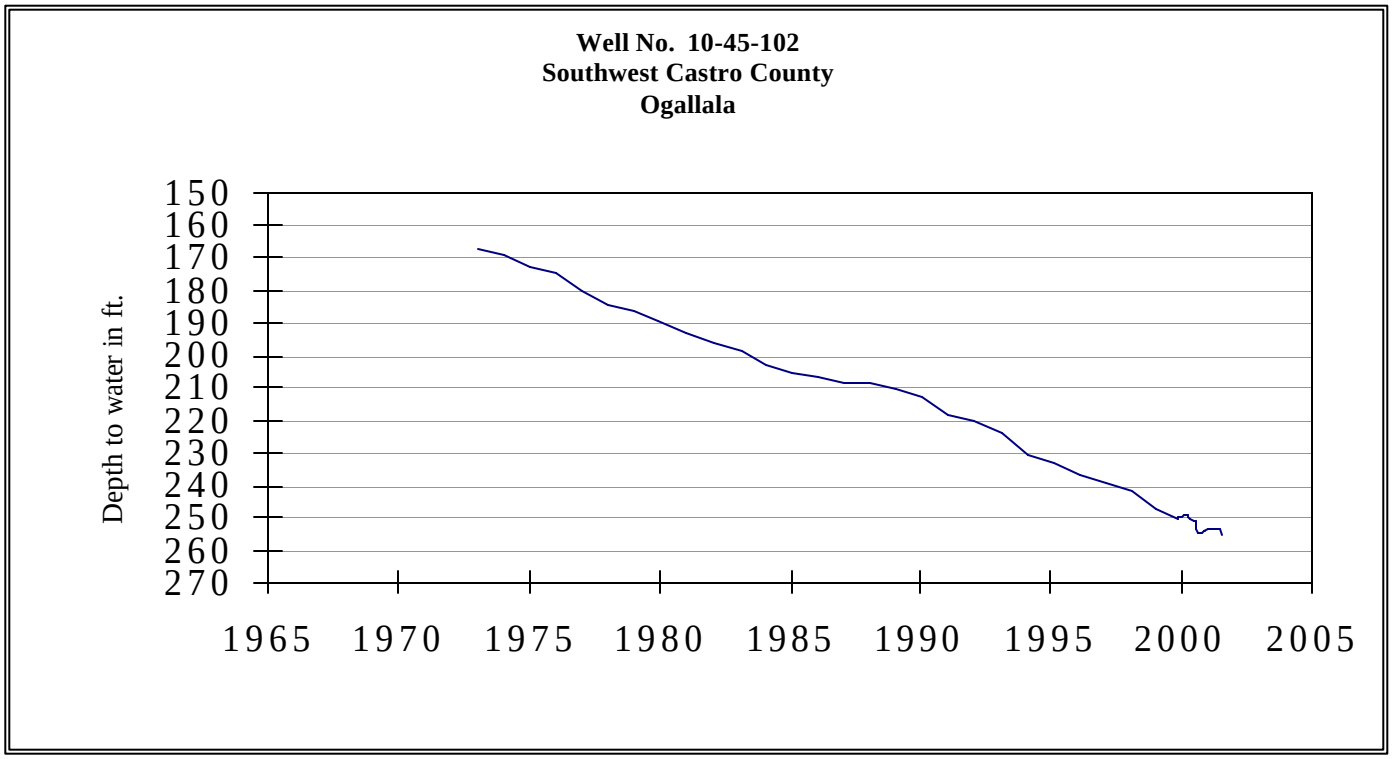
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late August 2001 (acre-feet)	(%)	Change since Late July 2001 (acre-feet)	(%)	Change since Late August 2000 (acre-feet)	(%)
			SOUTHERN					
Choke Canyon Reservoir	75	695,260	233,000	34	-7,000	-1	-15,000	-2
Lake Corpus Christi	76	241,240	114,800	48	49,210	20	31,810	13
Falcon Reservoir (Texas)	77	1,555,120	217,000	14	0	0	-39,000	-3
Falcon Reservoir (Texas and Mexico)	(77)	2,653,290	243,000	9	2,000	0	-52,000	-2
TOTAL		2,491,620	564,800	23	42,210	2	-22,190	-1
STATE TOTAL		34,470,430	26,479,220	77	-1,252,890	-4	1,972,867	6

Note:

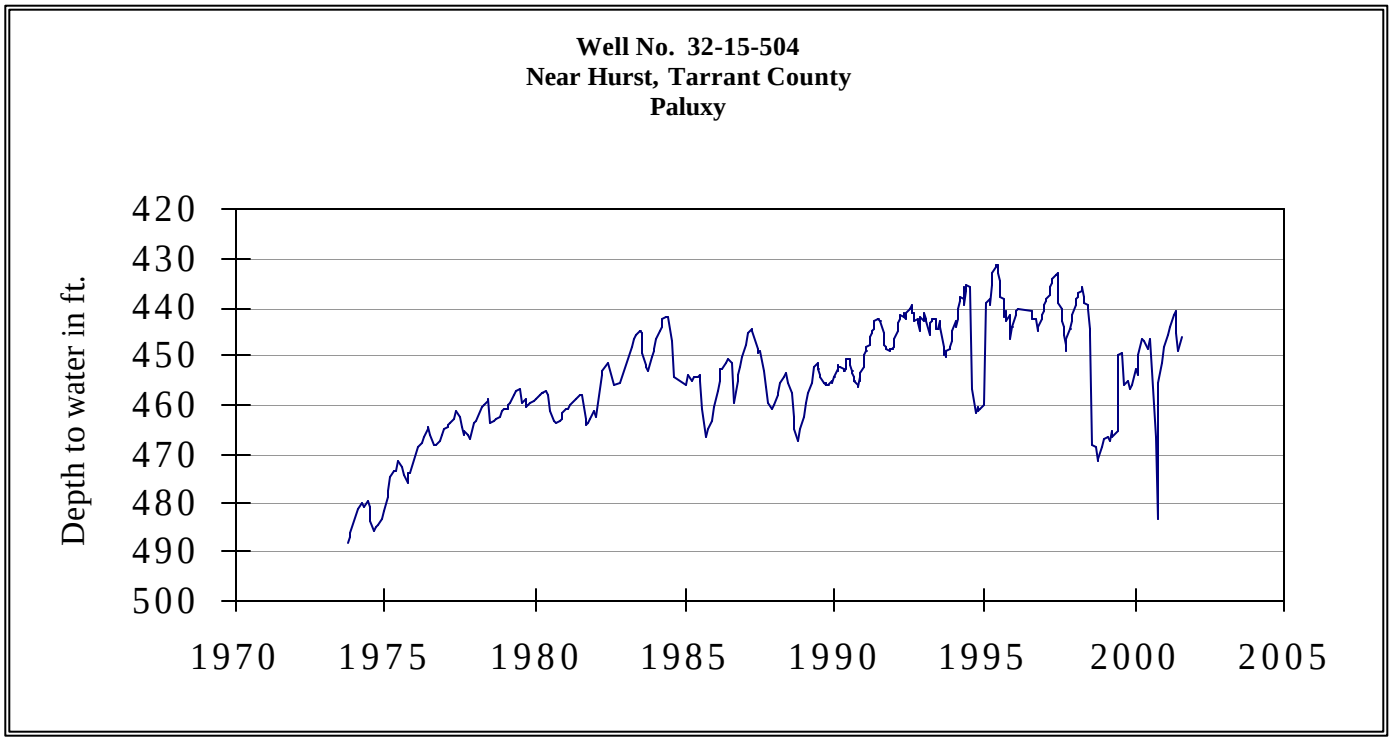
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

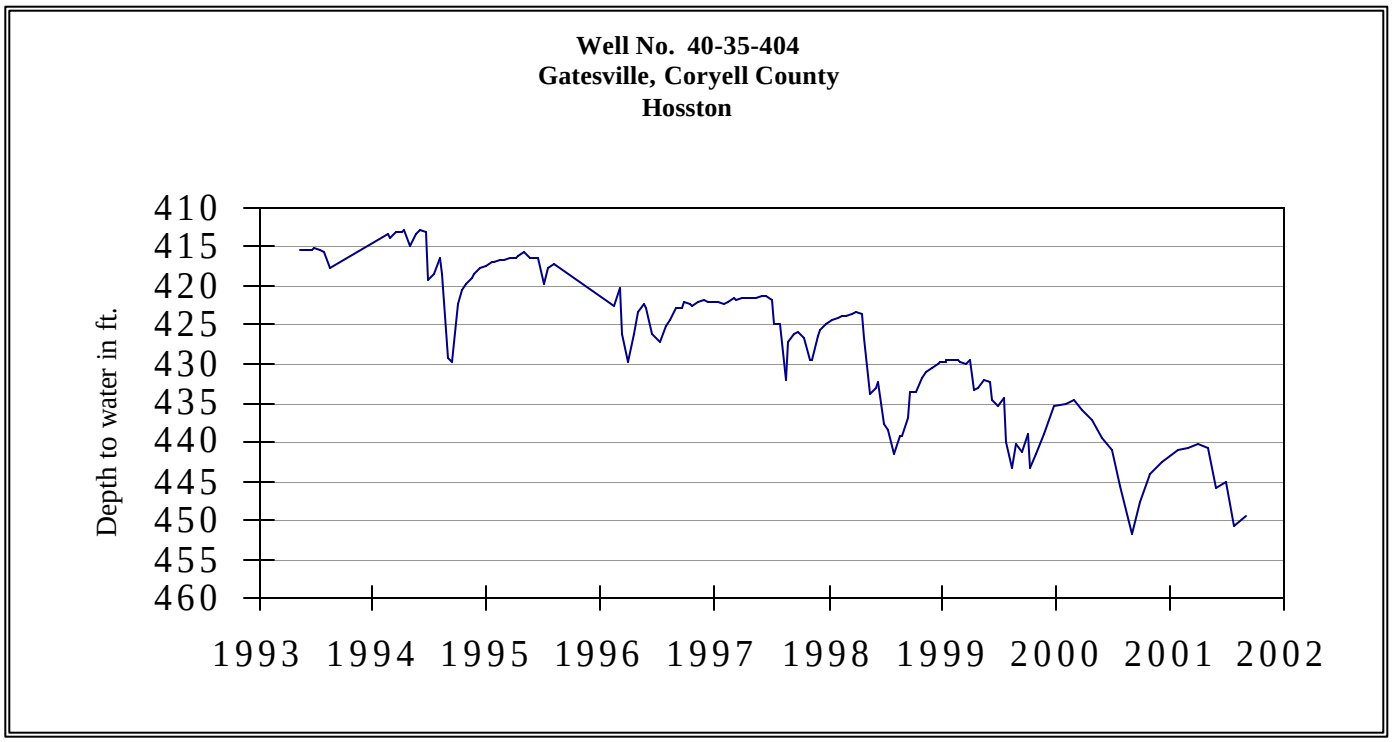
AUGUST GROUND WATER LEVELS IN OBSERVATION WELLS



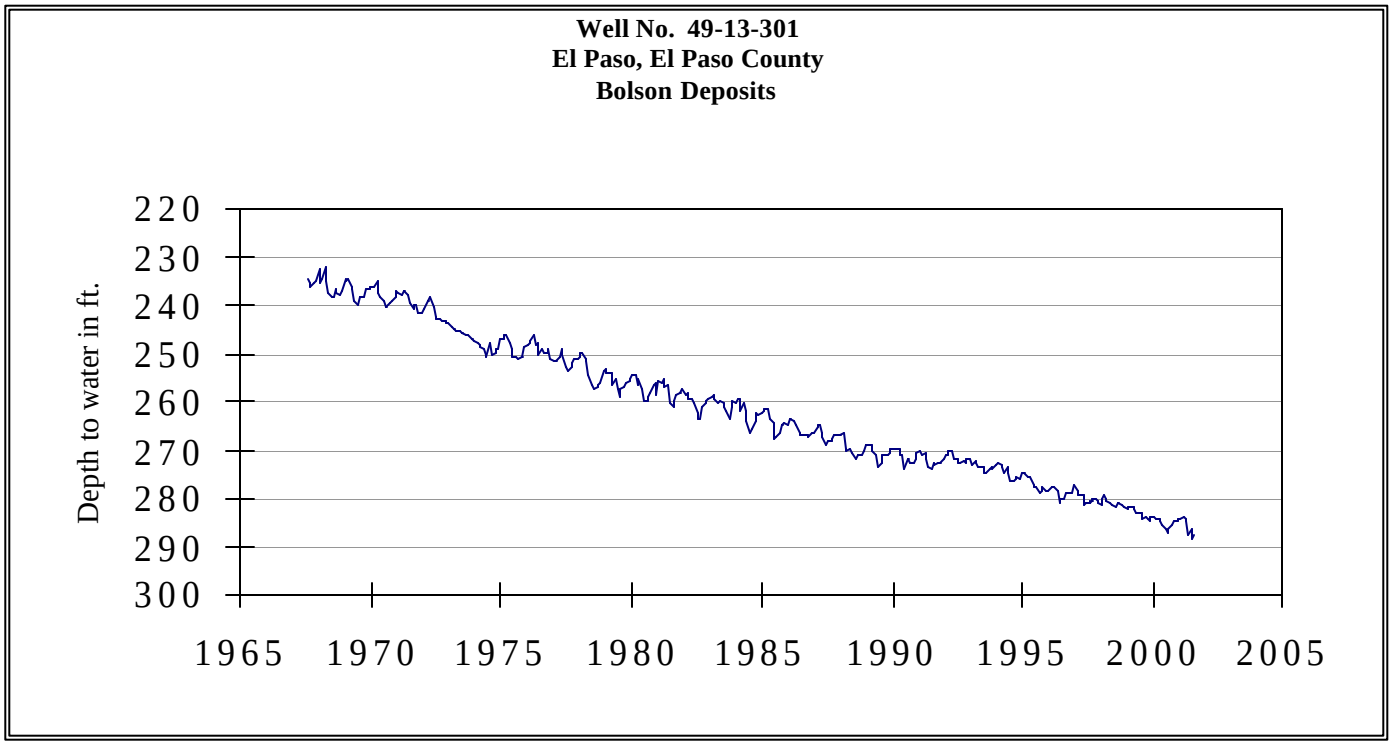
The late August water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was not available.



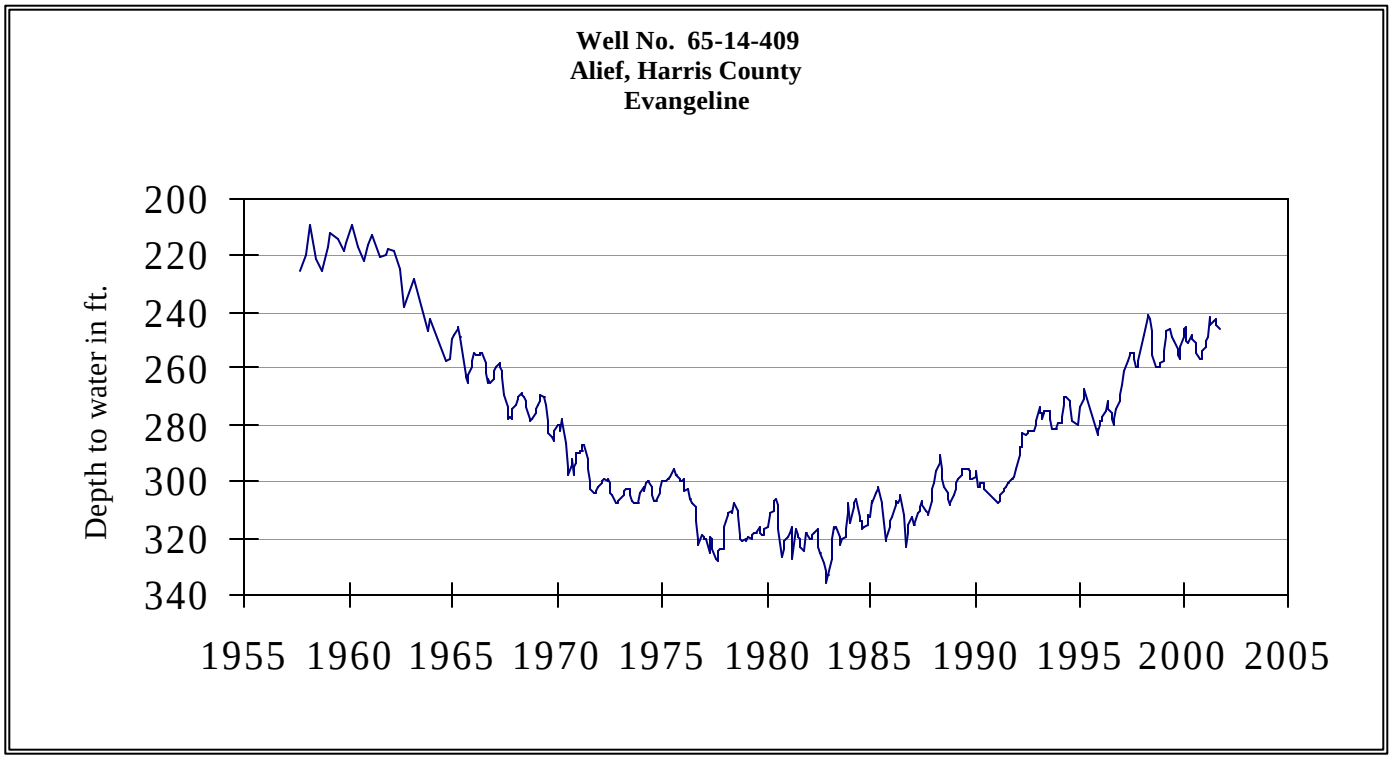
The late August water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 452.05 feet below land surface. This measurement was 5.85 feet below last month's measurement, 14.41 feet above last year's measurement, and 58.66 feet below the initial measurement recorded in 1953.



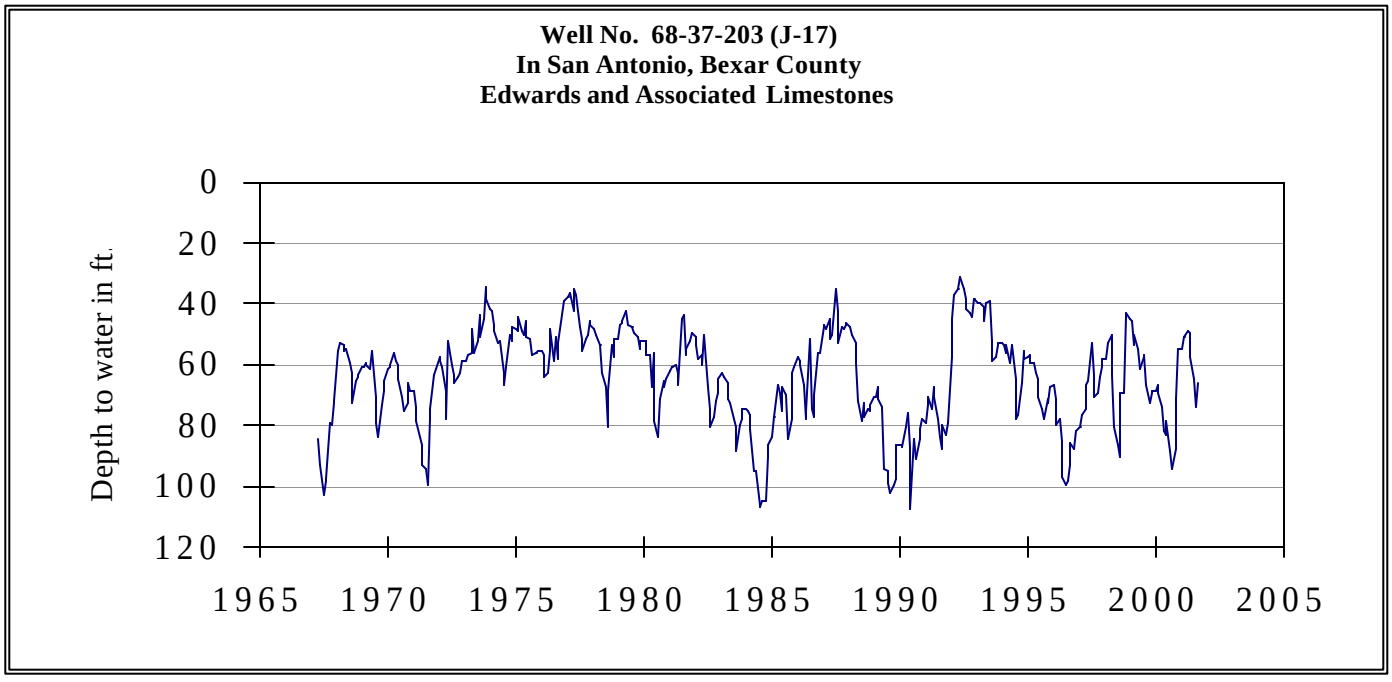
The late August water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 449.35 feet below land surface. This measurement was 1.58 feet above last month's measurement, 2.31 feet above last year's measurement, and 157.35 feet below the initial measurement recorded in 1955.



The late August water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 287.87 feet below land surface. This was 0.51 feet above last month's measurement, 1.58 feet below last year's measurement, and 55.97 feet below the initial measurement recorded in 1964.

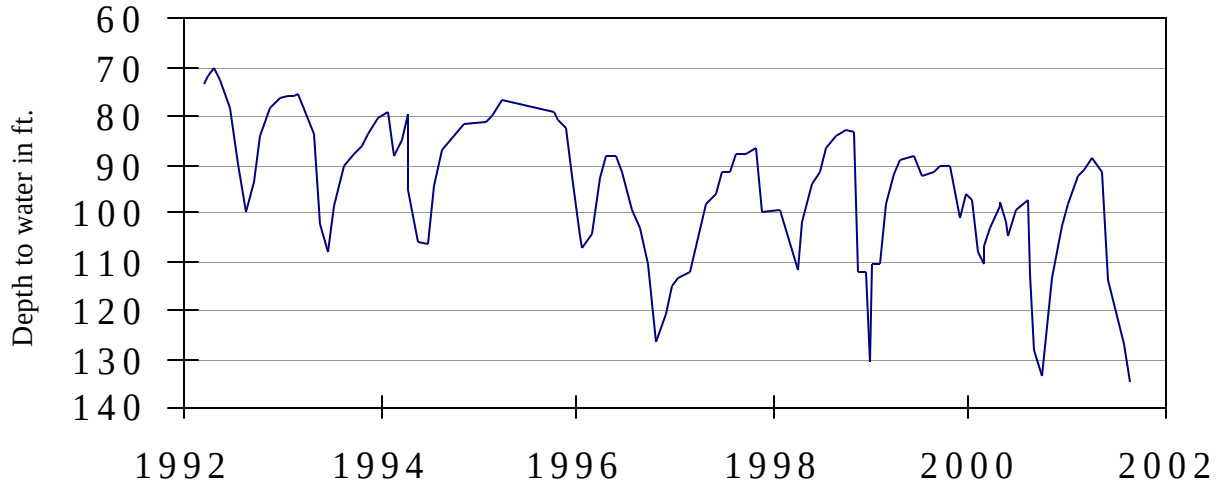


The late August water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 245.78 feet below land surface. This was 1.59 feet below last month's measurement, 8.64 feet above last year's measurement, and 142.55 feet below the initial measurement recorded in 1947.



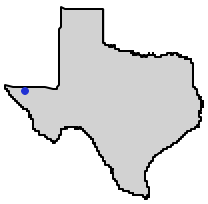
The late August water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 66.0 feet below land surface. This was 7.71 feet above last month's measurement, 28.65 feet above last year's measurement, and 6.38 feet below the initial measurement recorded in 1962.

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



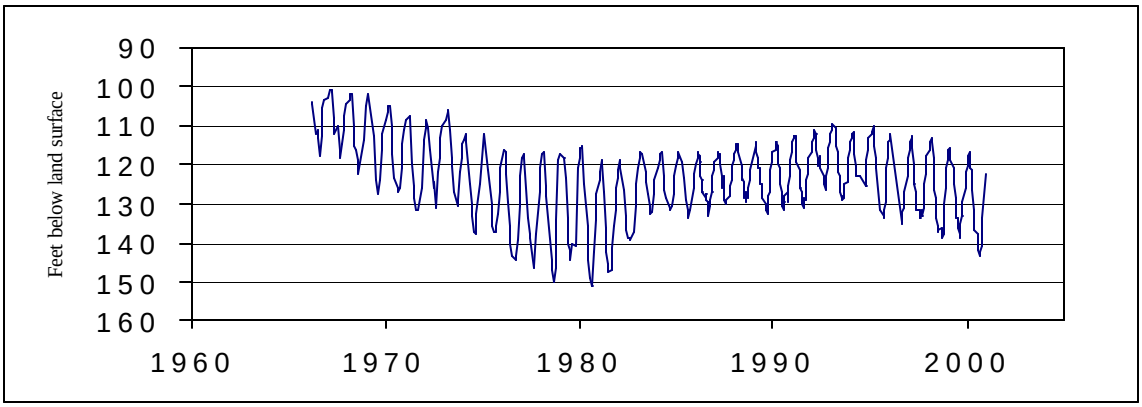
The late August water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 134.95 feet below land surface. This measurement was 8.06 feet below last month's measurement, 6.67 feet below last year's measurement, and 53.7 feet below the initial measurement recorded in 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 48-07-516
Hudspeth County



This 300-foot deep recorder well in Dell City, at an elevation of 3,702 feet above sea level, was completed in the Bone Spring/Victorio Peak aquifer. Average depth to water has declined approximately 20 feet since the well began being monitored in the mid sixties. The hydrograph illustrates yearly seasonal declines due to irrigation pumpage during summer months.

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