Texas Water Development Board

WATER Conditions

RESERVOIR STORAGE

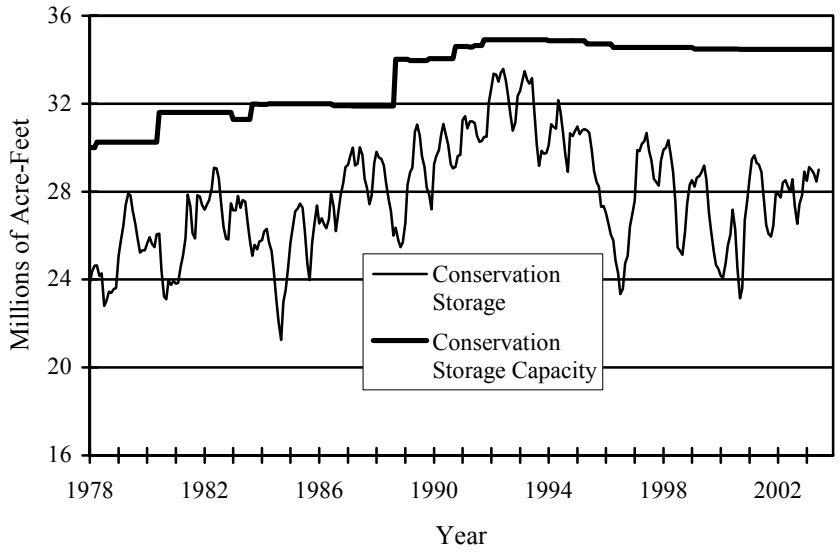
June 2003

Near the end of June, the 77 reservoirs monitored for this report held 29.00 million acre-feet in conservation storage, or 84.1 percent of the conservation storage capacity of the State's major reservoirs. Statewide total storage is below median for this time of year. Storage increased for the month, up 0.54 million acre-feet (+1.6%). Compared to last year at this time, storage is up 1.02 million acre-feet (+3.0%).

Storage in the North Central, East, Upper Coast and South Central Regions is reasonably comfortable, at 94%, 98%, 91% and 97%, respectively. The High Plains (31%), Low Rolling Plains (50%), Edwards Plateau (50%) and Southern (47%) all remained low. The Trans-Pecos Region is still very dry with 19% of capacity, the same as last month, in Red Bluff Reservoir. Storage is at 100% in 21 reservoirs this month, 1 more than last month.

Lake Colorado City in the Low Rolling Plains Region gained 5,820 acre-feet this month, 19% of its capacity, to bring it up to 66% of capacity.

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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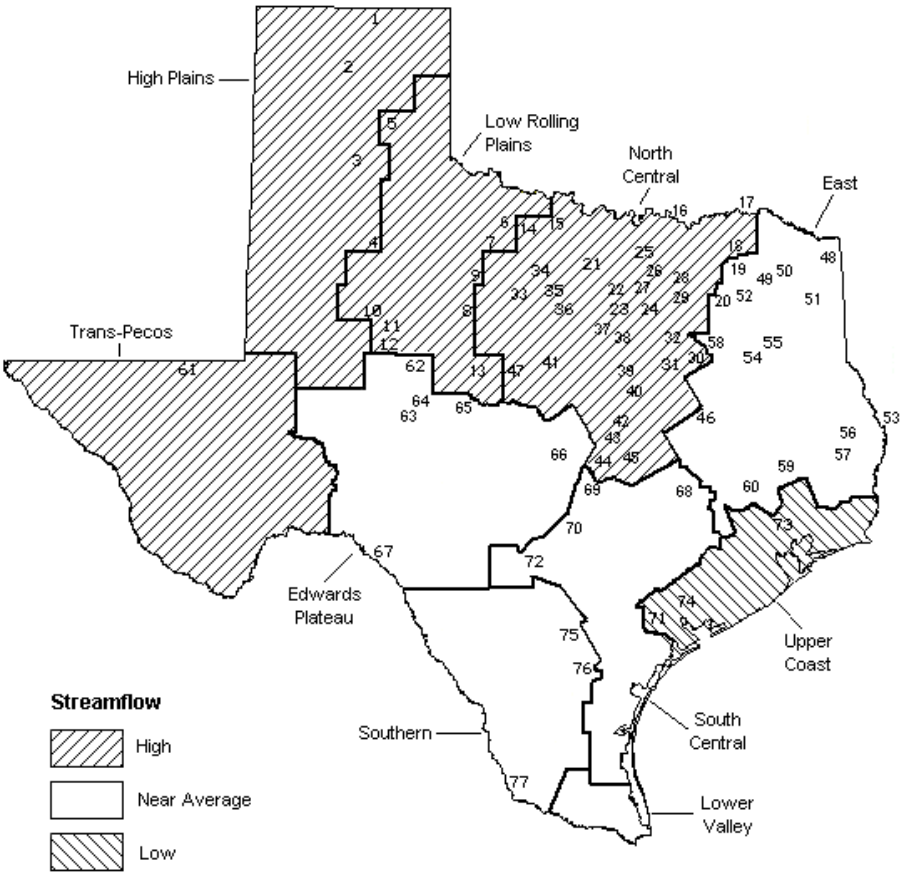
STREAMFLOW

Of 29 reporting index stations in June, computed 30-day mean flows were very high (0% - 5% exceedance) at 1 station (Wolf Creek at Lipscomb), high (5% - 30% exceedance) at 13 stations, near normal (30% - 70% exceedance) at 12 stations, and low (70% - 95% exceedance) at 3 stations. Compared to May, flows decreased at 5 index stations and increased at 24.

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

JUNE 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 June 2003 (acre-feet)	(%)	Change since Late May 2003 (acre-feet)	(%)	Change since Late June 2002 (acre-feet)	(%)
HIGH PLAINS								
Palo Duro Reservoir	1	60,900	4,630	8	1,420	2	-440	-1
Lake Meredith (Texas)	2	500,000	175,330	35	5,400	1	-43,270	-9
Lake Meredith (Texas and Oklahoma)	(2)	779,560	175,330	22	5,400	1	-43,270	-6
MacKenzie Reservoir	3	46,250	7,220	16	40	0	-270	-1
White River Lake	4	31,850	8,400	26	3,720	12	1,670	5
TOTAL		639,000	195,580	31	10,580	2	-42,310	-7
LOW ROLLING PLAINS								
Greenbelt Reservoir	5	58,200	24,270	42	1,520	3	870	1
Lake Kemp	6	319,600	233,580	73	13,240	4	57,580	18
Miller's Creek Reservoir	7	27,890	16,040	58	2,690	10	-1,930	-7
Fort Phantom Hill Reservoir	8	70,030	42,910	61	7,350	10	14,670	21
Lake Stamford	9	52,700	41,470	79	6,630	13	5,430	10
Lake J. B. Thomas	10	202,300	24,230	12	6,160	3	4,830	2
Lake Colorado City	11	30,800	20,250	66	5,820	19	2,330	8
Champion Creek Reservoir	12	41,600	3,250	8	1,260	3	360	1
Hords Creek Lake	13	8,600	2,270	26	130	2	-320	-4
TOTAL		811,720	408,270	50	44,800	6	83,820	10
NORTH CENTRAL								
Lake Kickapoo	14	106,000	80,030	76	3,590	3	-12,720	-12
Lake Arrowhead	15	262,100	147,900	56	1,110	0	-19,000	-7
Lake Texoma	16	2,722,300	2,722,300	100	190,230	7	0	0
Pat Mayse Lake	17	124,500	120,290	97	1,040	1	1,990	2
Cooper Lake	18	273,000	273,000	100	0	0	0	0
Lake Sulphur Springs	19	17,710	17,710	100	0	0	0	0
Lake Tawakoni	20	936,200	881,800	94	-3,400	0	1,600	0
Bridgeport Reservoir	21	374,830	307,700	82	38,100	10	-2,800	-1
Eagle Mountain Reservoir	22	178,380	151,500	85	9,300	5	-24,100	-14
Benbrook Lake	23	88,200	83,410	95	1,270	1	1,590	2
Joe Pool Lake	24	175,800	175,800	100	0	0	0	0
Ray Roberts Lake	25	798,760	791,350	99	-4,400	-1	-7,410	-1
Lewisville Lake	26	555,000	555,000	100	0	0	0	0
Grapevine Lake	27	187,700	182,950	97	-2,860	-2	-750	0
Lavon Lake	28	443,800	436,770	98	-5,050	-1	-7,030	-2
Lake Ray Hubbard	29	413,420	410,700	99	4,800	1	15,500	4
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	640	1	0	0
Bardwell Lake	32	53,580	48,110	90	-1,410	-3	690	1
Hubbard Creek Reservoir	33	317,800	147,800	47	9,700	3	23,400	7
Lake Graham	34	45,000	29,000	64	2,340	5	-5,710	-13
Possum Kingdom Lake	35	551,820	503,200	91	61,500	11	-16,300	-3
Lake Palo Pinto	36	27,650	19,430	70	440	2	-3,050	-11
Lake Granbury	37	135,680	133,800	99	300	0	2,900	2
Lake Pat Cleburne	38	25,300	24,410	96	-550	-2	-890	-4
Whitney Lake	39	622,800	481,550	77	5,110	1	-141,250	-23
Waco Lake	40	144,500	144,500	100	60	0	3,500	2
Proctor Lake	41	55,590	55,190	99	1,290	2	7,910	14
Belton Lake	42	434,500	434,500	100	1,270	0	1,000	0
Stillhouse Hollow Lake	43	226,060	226,060	100	0	0	0	0
Lake Georgetown	44	37,010	34,940	94	-950	-3	-1,440	-4
Granger Lake	45	54,280	54,280	100	0	0	0	0
Lake Limestone	46	215,750	212,600	99	500	0	-3,150	-1
Lake Brownwood	47	143,400	134,690	94	6,740	5	25,090	17
TOTAL		11,908,050	11,181,900	94	320,710	3	-160,430	-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 June 2003 (acre-feet)	(%)	Change since Late May 2003 (acre-feet)	(%)	Change since Late June 2002 (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	240,950	96	3,850	2	-11,050	-4
Lake Fork Reservoir	52	635,200	633,800	100	6,400	1	-1,400	0
Toledo Bend Reservoir	53	4,472,900	4,274,000	96	62,000	1	-82,000	-2
Lake Palestine	54	411,300	411,300	100	0	0	5,800	1
Lake Tyler	55	73,700	73,700	100	0	0	0	0
Sam Rayburn Reservoir	56	2,876,300	2,857,190	99	9,070	0	167,190	6
B. A. Steinhagen Lake	57	94,200	85,950	91	-4,280	-5	21,760	23
Cedar Creek Reservoir	58	637,050	636,600	100	1,900	0	10,600	2
Lake Livingston	59	1,750,000	1,738,000	99	14,000	1	-12,000	-1
Lake Conroe	60	429,900	413,500	96	6,800	2	10,900	3
TOTAL		12,044,350	11,776,790	98	99,740	1	109,800	1
TRANS-PECOS								
Red Bluff Reservoir	61	307,000	57,000	19	-1,640	-1	16,720	5
TOTAL		307,000	57,000	19	-1,640	-1	16,720	5
EDWARDS PLATEAU								
E. V. Spence Reservoir	62	488,760	58,730	12	27,030	6	4,410	1
Twin Buttes Reservoir	63	177,800	5,560	3	-440	0	-650	0
O.C. Fisher Lake	64	119,200	4,760	4	2,420	2	1,780	1
O. H. Ivie Reservoir	65	554,340	222,400	40	34,100	6	-3,700	-1
Lake Buchanan	66	896,980	866,130	97	13,100	1	87,130	10
Amistad Reservoir (Texas)	67	1,771,030	860,000	49	12,000	1	234,000	13
Amistad Reservoir (Texas and Mexico)	(67)	3,151,300	1,017,000	32	51,000	2	205,000	7
TOTAL		4,008,110	2,017,580	50	88,210	2	322,970	8
SOUTH CENTRAL								
Somerville Lake	68	155,060	155,060	100	230	0	2,360	2
Lake Travis	69	1,144,100	1,101,600	96	7,200	1	136,300	12
Canyon Lake	70	385,600	385,600	100	0	0	0	0
Coleto Creek Reservoir	71	35,060	29,340	84	490	1	620	2
Medina Lake	72	254,000	247,500	97	700	0	10,000	4
TOTAL		1,973,820	1,919,100	97	8,620	0	149,280	8
UPPER COAST								
Lake Houston	73	128,860	128,860	100	0	0	0	0
Lake Texana	74	157,900	131,100	83	-2,800	-2	-7,700	-5
TOTAL		286,760	259,960	91	-2,800	-1	-7,700	-3

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

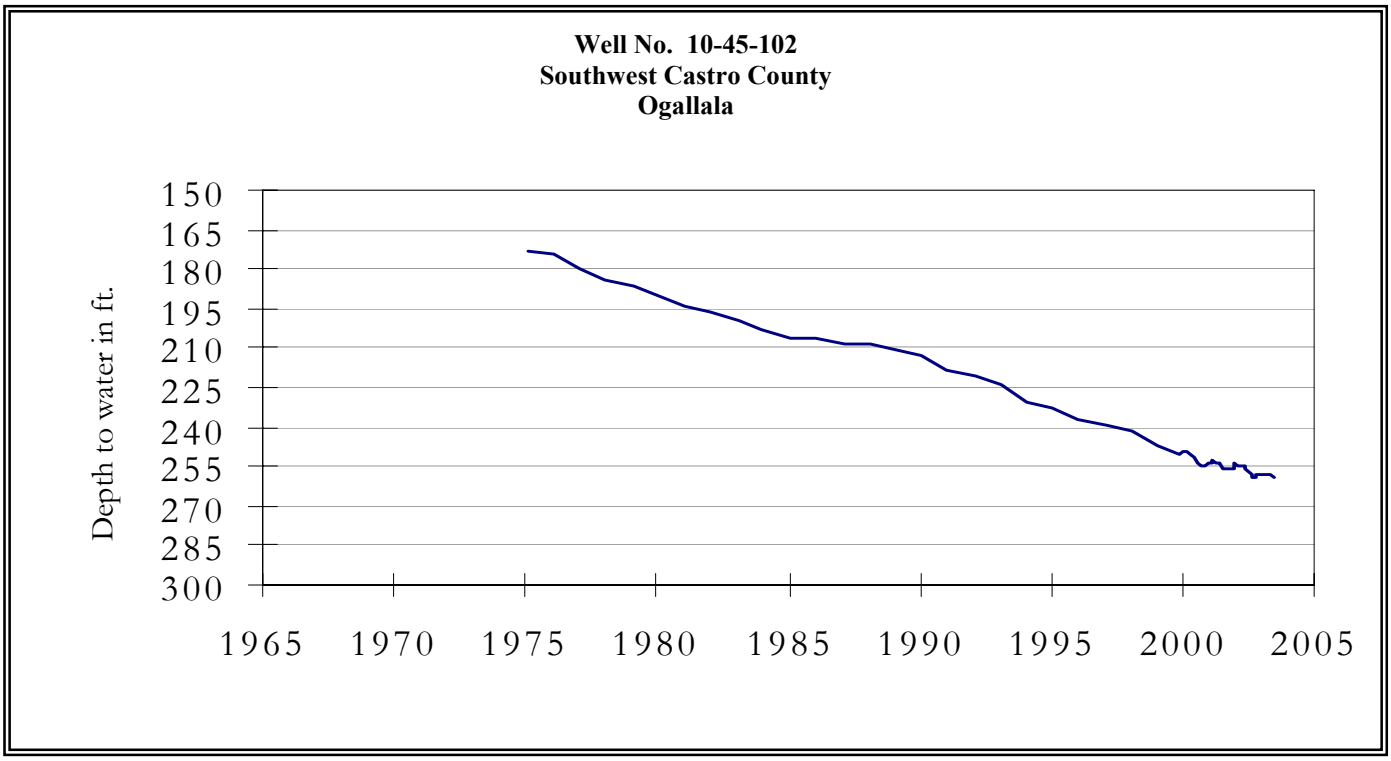
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late June 2003 (acre-feet)	(%)	Change since Late May 2003 (acre-feet)	(%)	Change since Late June 2002 (acre-feet)	(%)
			SOUTHERN					
Choke Canyon Reservoir	75	695,260	691,000	99	6,000	1	420,000	60
Lake Corpus Christi	76	241,240	207,740	86	-16,220	-7	-760	0
Falcon Reservoir (Texas)	77	1,555,120	284,000	18	-21,000	-1	129,000	8
Falcon Reservoir (Texas and Mexico)	(77)	2,653,290	357,000	13	16,000	1	131,000	5
TOTAL		2,491,620	1,182,740	47	-31,220	-1	548,240	22
STATE TOTAL		34,470,430	28,998,920	84	537,000	2	1,020,390	3

Note:

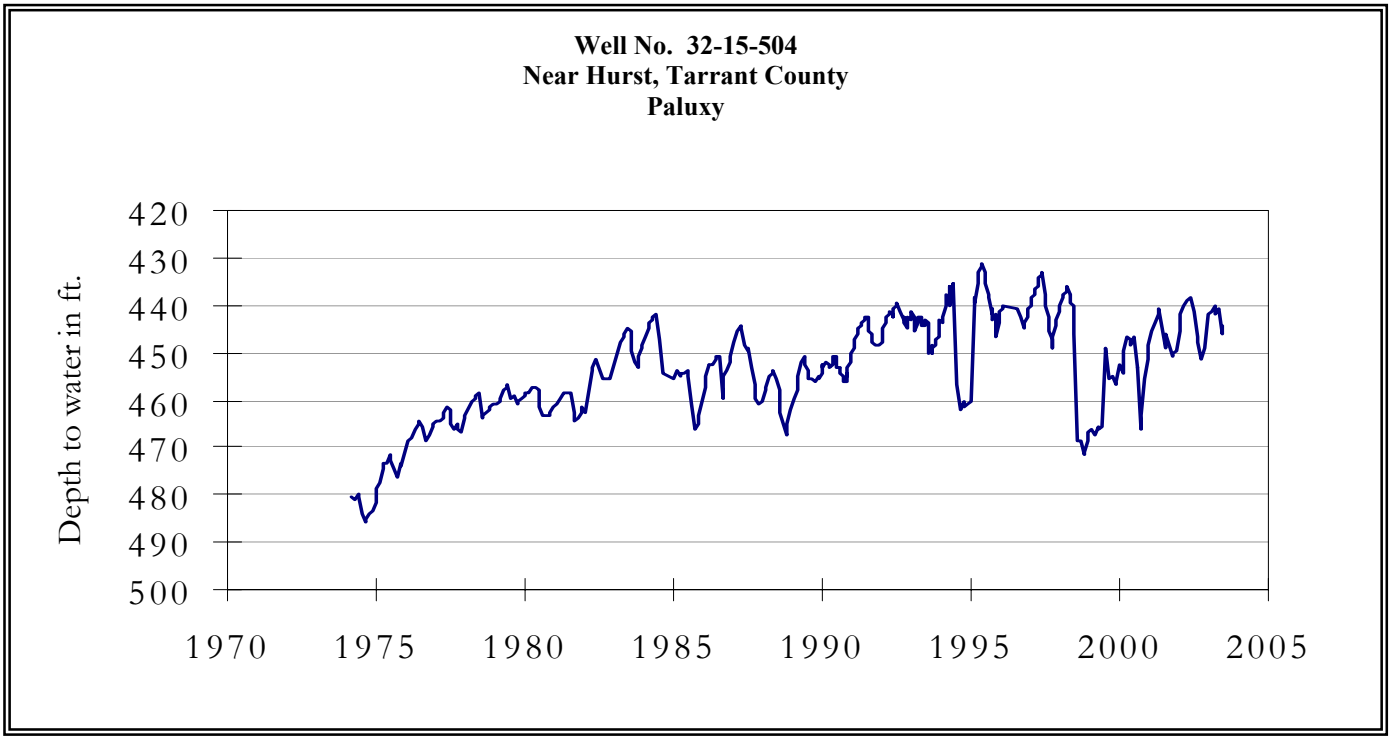
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

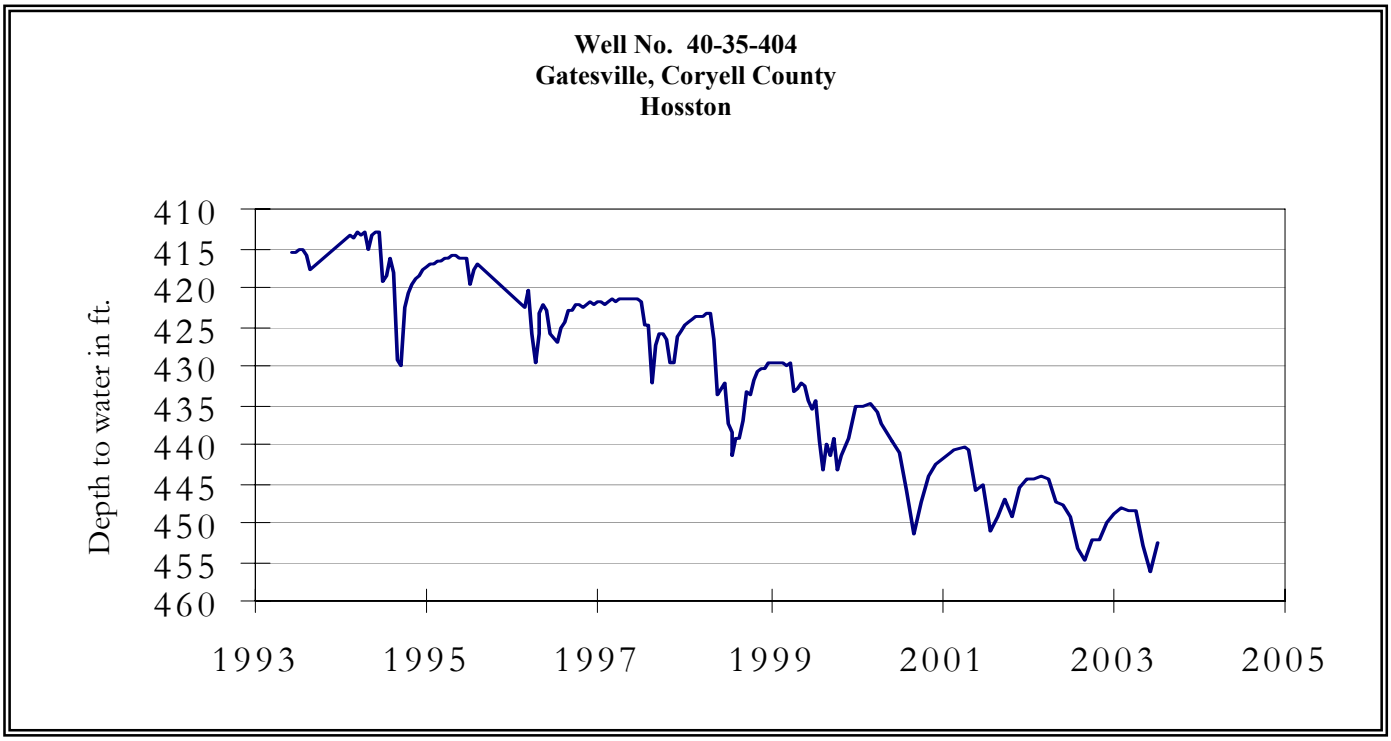
JUNE GROUND WATER LEVELS IN OBSERVATION WELLS



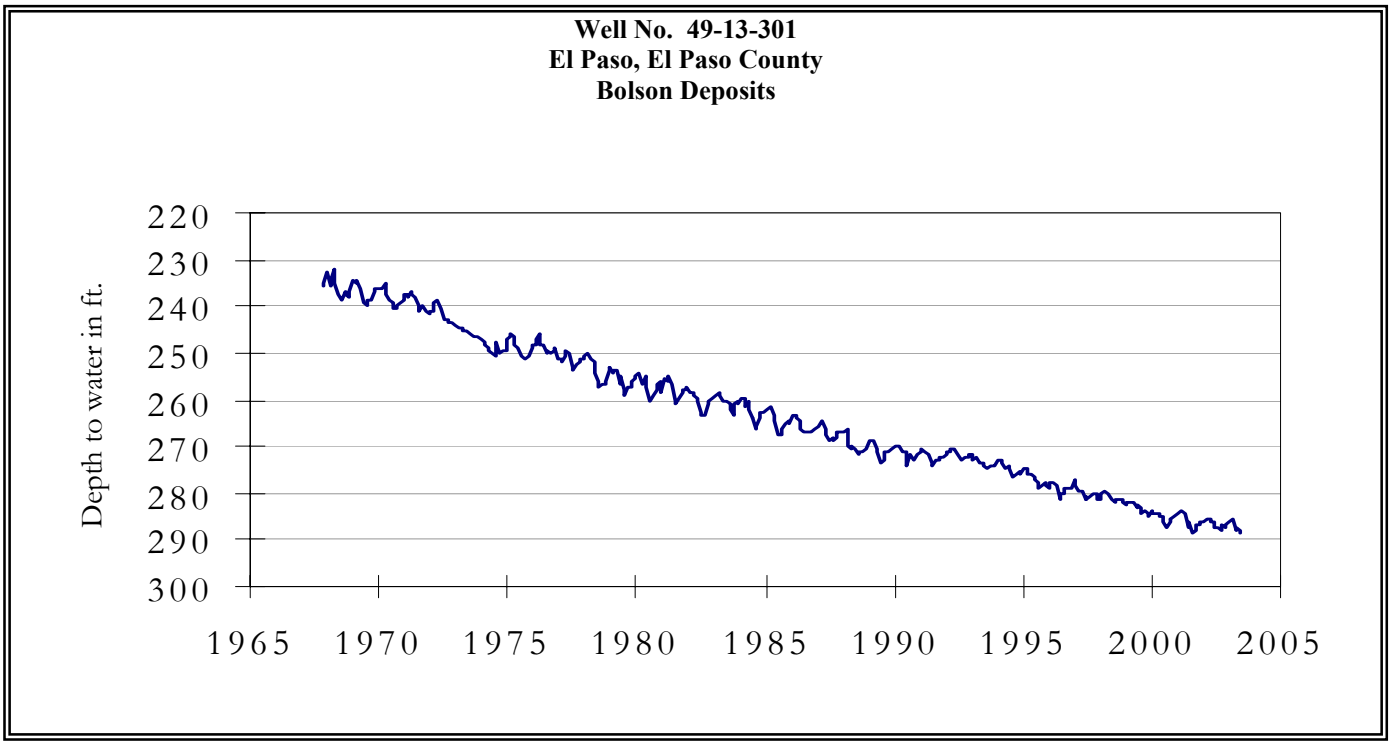
The late June water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 259.24 feet below land surface. This measurement was 0.23 feet below last month's measurement, 2.26 feet below last year's measurement, and 103.24 feet below the initial measurement recorded in 1968.



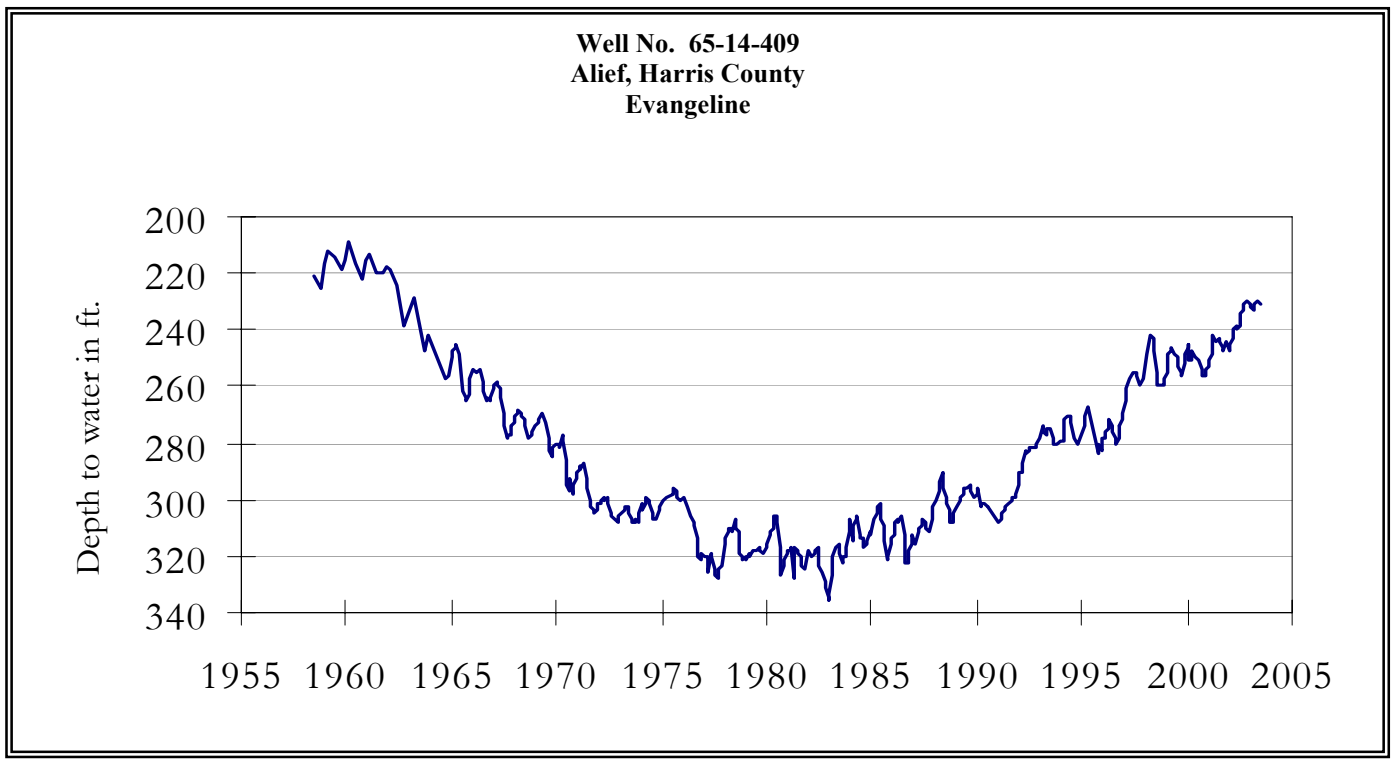
The late June water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 444.22 feet below land surface. This measurement was 1.89 feet above last month's measurement, 2.89 feet below last year's measurement, and 50.83 feet below the initial measurement recorded in 1953.



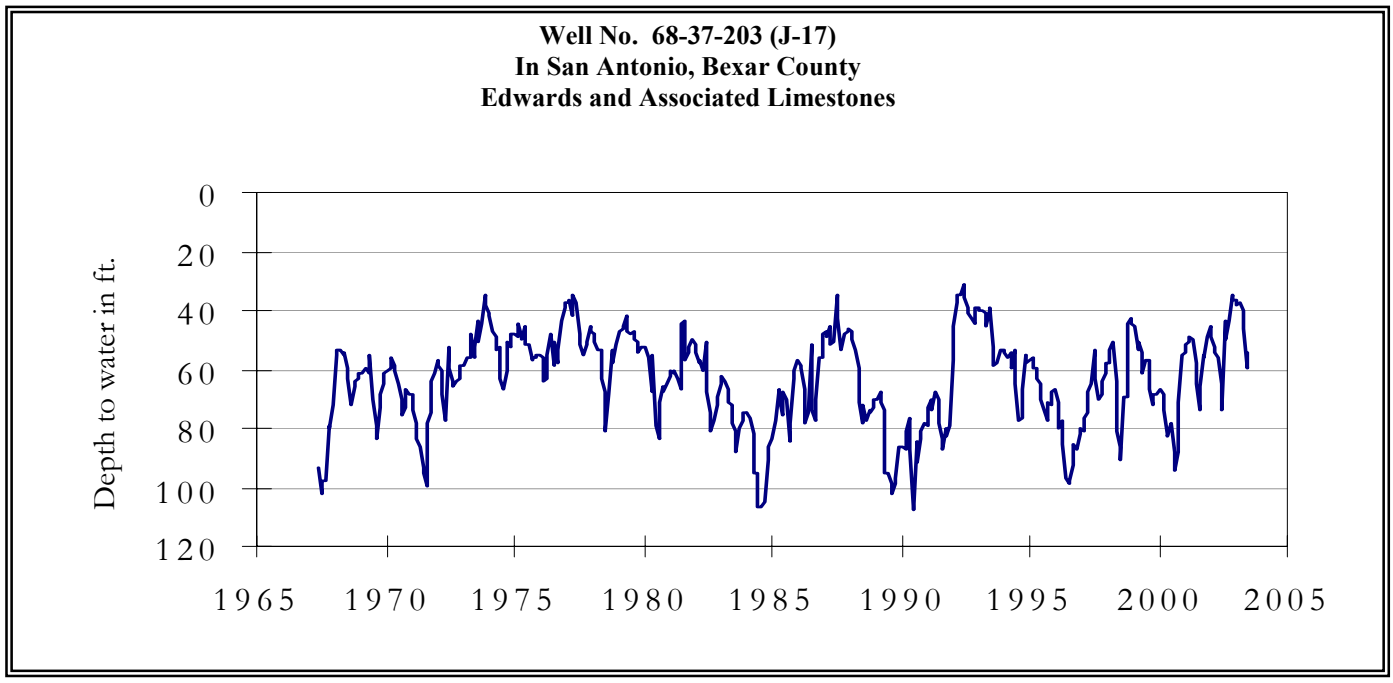
The late June water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 452.77 feet below land surface. This measurement was 3.39 feet above last month's measurement, 3.68 feet below last year's measurement, and 160.77 feet below the initial measurement recorded in 1955.



The late June water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 288.83 feet below land surface. This was 0.68 feet below last month's measurement, 1.54 feet below last year's measurement, and 56.93 feet below the initial measurement recorded in 1964.

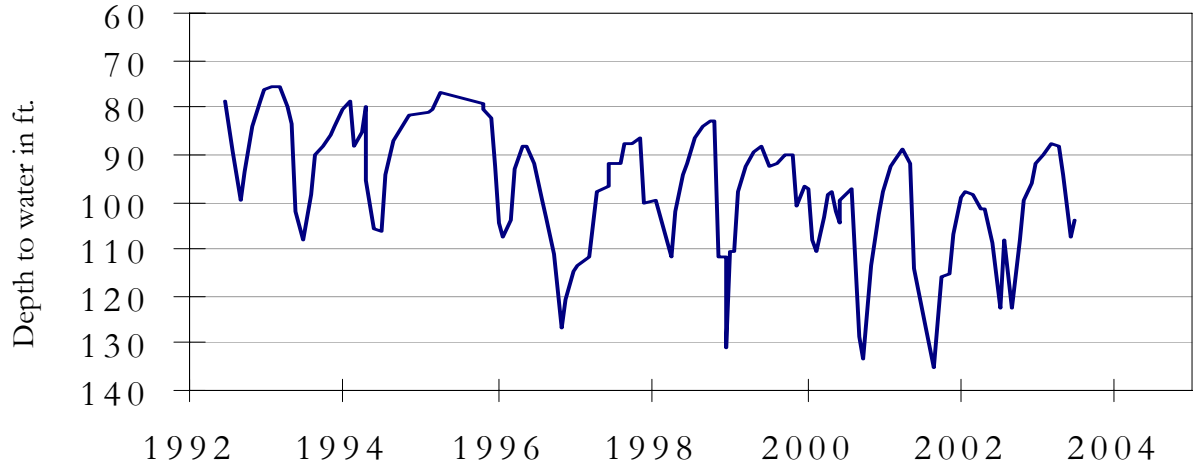


The late June water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 230.56 feet below land surface. This was 0.94 feet below last month's measurement, 7.75 feet above last year's measurement, and 127.33 feet below the initial measurement recorded in 1947.



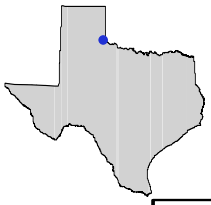
The late June water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 54.45 feet below land surface. This was 5.11 feet above last month's measurement, 18.93 feet above last year's measurement, and 5.17 feet above the initial measurement recorded in 1962.

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



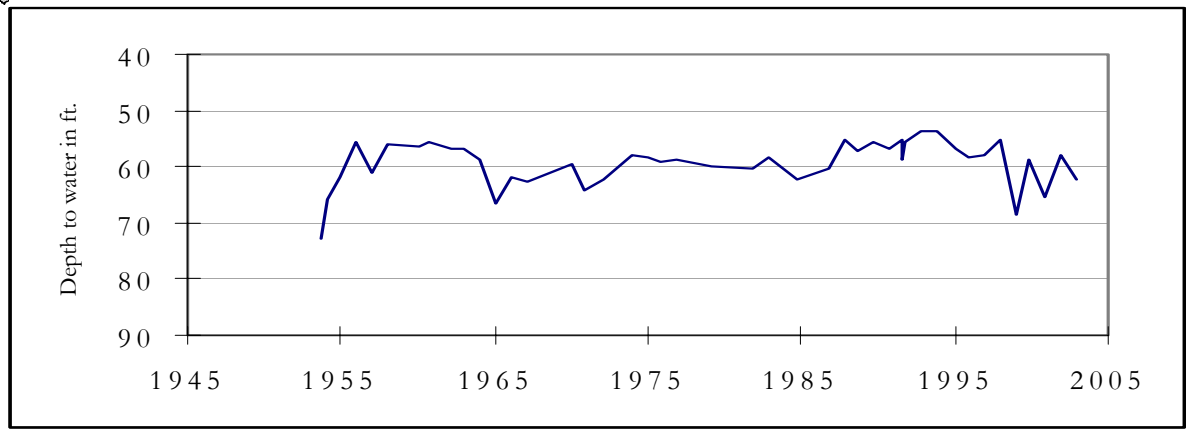
The late June water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 103.87 feet below land surface. This measurement was 3.69 feet above last month's measurement, 18.93 feet above last year's measurement, and 22.62 feet below the initial measurement recorded in 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. 1223603
Childress County



This 177 ft. deep irrigation well, located 18 miles north of Childress, at an elevation of 1,745 feet above sea level, was completed in the Blaine Aquifer. As the water level data indicates, no local significant water level declines have occurred. Also, no considerable water level declines have been noted regionally for the Blaine Aquifer.

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