Texas Water Development Board

WATER Conditions

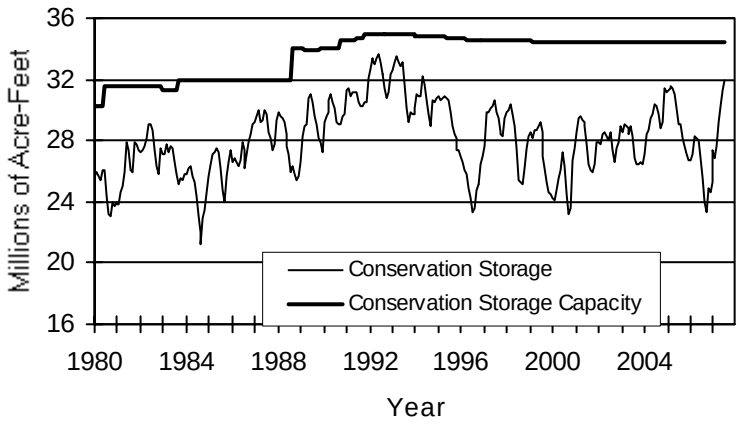
RESERVOIR STORAGE

July 2007

Near the end of July, the 77 reservoirs monitored for this report held 31.9 million acre-feet in conservation storage. As a statewide total, the state's major reservoirs are approximately 93 percent full, which is above normal for this time of year. Storage went up during the month by 0.58 million acre-feet (2% of conservation storage capacity). Compared to July last year, storage increased by 6.38 million acre-feet (19%).

Toward the end of July this year, 45 reservoirs were at 100% of their conservation capacities. Regionally, storage was 100% of capacity in East and South Central Regions, and 99% in the North Central and Upper Coast Regions, but High Plains and Trans-Pecos Regions are still experiencing storage below 30% of their regional capacities. In the past month, five out of nine Regions observed increases in storage but four had decreases. Compared to this time last year, the storage increased in all Regions except Upper Coast Region, by 0.3% to 31%.

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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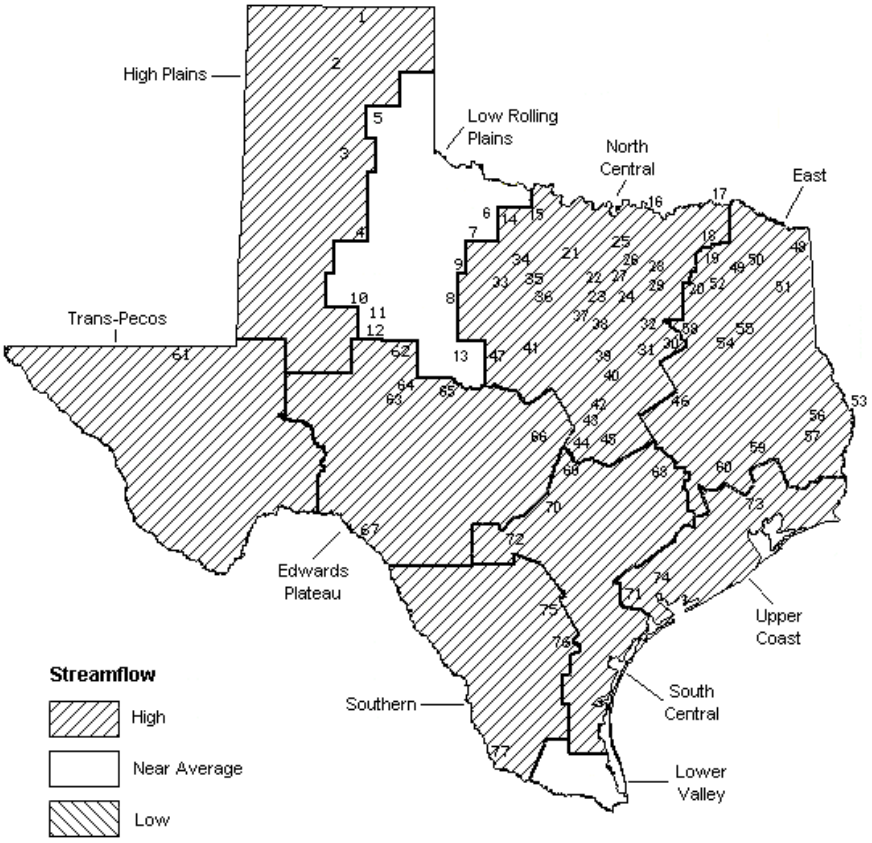
STREAMFLOW

Of 29 reporting index stations in July, computed 30-day mean flows were very high (<5%) at 7 stations, high (5% - 30%) at 15 stations, low (70% - 95%) at 2 stations, and near normal (30% - 70% exceedance) at the remaining 5 stations. Compared to June, flows have increased at 18 index stations and decreased at 11 stations.

On a regional basis, flows in July were very high in the North Central, South Central, Upper Coast, and Southern Regions, high in the High Plains, East Texas, Trans-Pecos, and Edwards plateau Regions, and normal in the Low Rolling Plains Region. Streamflow in the Lower Valley Region is not monitored.

JULY 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 July. 2007 (acre-feet)	(%)	Change since Late June 2007 (acre-feet)	(%)	Change since Late July 2006 (acre-feet)	(%)
HIGH PLAINS								
Palo Duro Reservoir	1	60,900	2,110	3	-450	-1	1,140	2
Lake Meredith (Texas)	2	500,000	110,590	22	-4,410	-1	2,750	1
Lake Meredith (Texas and Oklahoma)	(2)	779,560	110,590	14	-4,410	-1	2,750	0
MacKenzie Reservoir	3	46,250	9,060	20	-250	-1	310	1
White River Lake	4	31,850	4,600	14	-410	-1	1,060	3
TOTAL		639,000	126,360	20	-5,520	-1	5,260	1
LOW ROLLING PLAINS								
Greenbelt Reservoir	5	58,200	24,330	42	-710	-1	5,690	10
Lake Kemp	6	319,600	305,490	96	14,230	4	109,160	34
Miller's Creek Reservoir	7	27,890	27,890	100	0	0	6,350	23
Fort Phantom Hill Reservoir	8	70,030	67,490	96	4,950	7	20,200	29
Lake Stamford	9	52,700	52,700	100	870	2	11,920	23
Lake J. B. Thomas	10	202,300	31,220	15	-2,950	-1	-7,970	-4
Lake Colorado City	11	30,800	25,480	83	-560	-2	980	3
Champion Creek Reservoir	12	41,600	6,430	15	-130	0	840	2
Hords Creek Lake	13	8,600	8,140	95	130	2	2,730	32
TOTAL		811,720	549,170	68	15,830	2	149,900	18
NORTH CENTRAL								
Lake Kickapoo	14	106,000	94,550	89	14,300	13	20,640	19
Lake Arrowhead	15	262,100	258,100	98	40,370	15	68,350	26
Lake Texoma	16	2,722,300	2,722,300	100	0	0	387,710	14
Pat Mayse Lake	17	124,500	124,500	100	0	0	38,060	31
Cooper Lake	18	273,000	273,000	100	40,610	15	145,320	53
Lake Sulphur Springs	19	17,710	17,710	100	0	0	2,500	14
Lake Tawakoni	20	936,200	903,600	97	46,800	5	297,000	32
Bridgeport Reservoir	21	374,830	374,830	100	0	0	155,030	41
Eagle Mountain Reservoir	22	178,380	178,380	100	0	0	38,180	21
Benbrook Lake	23	88,200	85,870	97	-2,330	-3	24,000	27
Joe Pool Lake	24	175,800	175,800	100	0	0	8,300	5
Ray Roberts Lake	25	798,760	798,760	100	0	0	129,290	16
Lewisville Lake	26	555,000	555,000	100	0	0	156,090	28
Grapevine Lake	27	187,700	187,700	100	0	0	63,250	34
Lavon Lake	28	443,800	443,800	100	0	0	216,740	49
Lake Ray Hubbard	29	413,420	413,420	100	0	0	61,420	15
Richland-Chambers Creek Lake	30	1,103,820	1,103,820	100	0	0	258,520	23
Navarro Mills Lake	31	55,810	55,810	100	0	0	25,460	46
Bardwell Lake	32	53,580	53,580	100	0	0	12,640	24
Hubbard Creek Reservoir	33	317,800	316,230	100	60,510	19	143,420	45
Lake Graham	34	45,000	44,860	100	-140	0	4,230	9
Possum Kingdom Lake	35	551,820	520,030	94	-16,720	-3	39,380	7
Lake Palo Pinto	36	27,650	26,200	95	-1,450	-5	8,930	32
Lake Granbury	37	135,680	132,990	98	2,300	2	5,100	4
Lake Pat Cleburne	38	25,300	25,300	100	0	0	3,330	13
Whitney Lake	39	622,800	622,800	100	0	0	112,170	18
Waco Lake	40	144,500	144,500	100	0	0	0	0
Proctor Lake	41	55,590	55,590	100	0	0	22,560	41
Belton Lake	42	434,500	434,500	100	0	0	43,080	10
Stillhouse Hollow Lake	43	226,060	226,060	100	0	0	3,360	1
Lake Georgetown	44	37,010	37,010	100	0	0	15,900	43
Granger Lake	45	54,280	54,280	100	0	0	3,770	7
Lake Limestone	46	215,750	215,750	100	0	0	17,570	8
Lake Brownwood	47	143,400	133,030	93	-10,370	-7	25,070	17
TOTAL		11,908,050	11,809,660	99	173,880	1	2,556,370	21

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

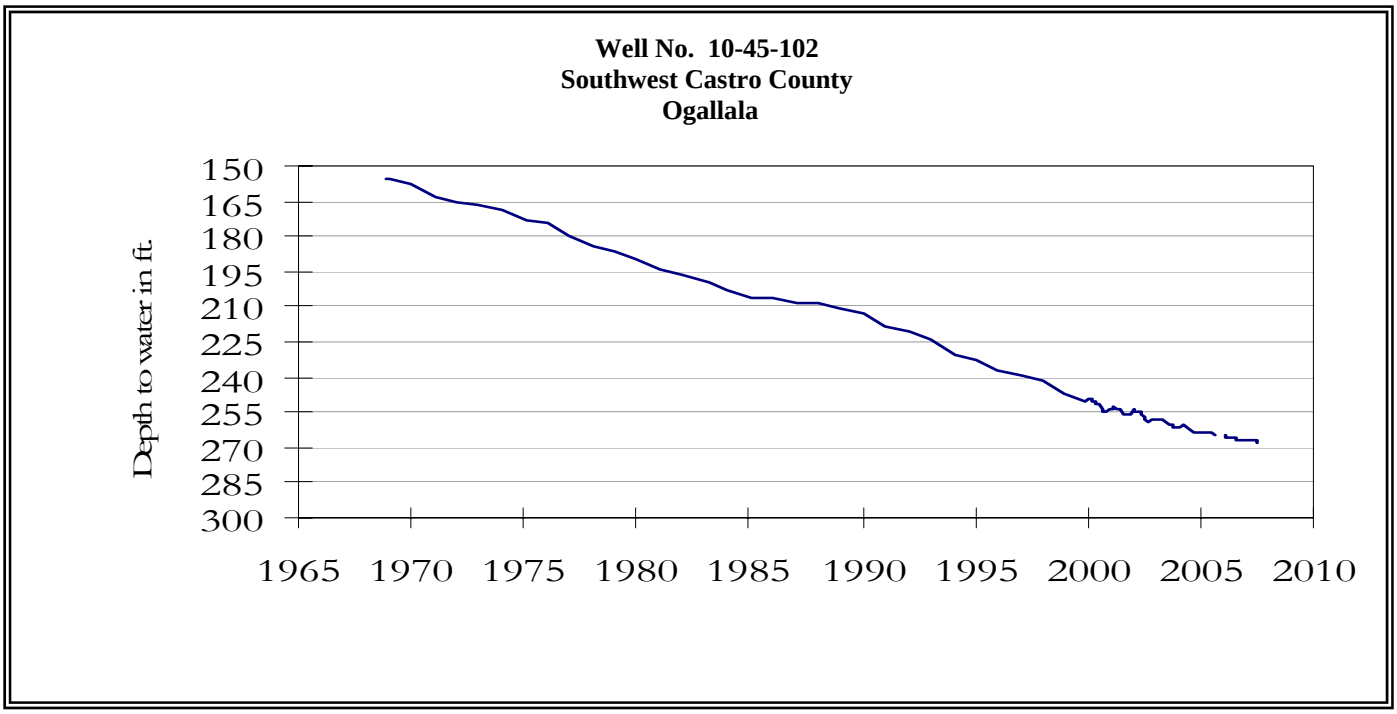
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late July. 2007 (acre-feet)	(%)	Change since Late June 2007 (acre-feet)	(%)	Change since Late July 2006 (acre-feet)	(%)
EAST								
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0
Lake Cypress Springs	49	66,800	66,800	100	0	0	10,130	15
Lake Bob Sandlin	50	202,300	198,700	98	38,800	19	57,300	28
Lake O' the Pines	51	252,000	252,000	100	0	0	61,900	25
Lake Fork Reservoir	52	635,200	635,200	100	0	0	55,700	9
Toledo Bend Reservoir	53	4,472,900	4,472,900	100	118,900	3	1,145,900	26
Lake Palestine	54	411,300	411,300	100	0	0	73,800	18
Lake Tyler	55	73,700	73,700	100	0	0	19,680	27
Sam Rayburn Reservoir	56	2,876,300	2,876,300	100	0	0	240,730	8
B. A. Steinhagen Lake	57	94,200	53,860	57	-8,130	-9	35,110	37
Cedar Creek Reservoir	58	637,050	637,050	100	0	0	119,650	19
Lake Livingston	59	1,750,000	1,750,000	100	0	0	230,000	13
Lake Conroe	60	429,900	415,600	97	-4,700	-1	66,700	16
TOTAL		12,044,350	11,986,110	100	144,870	1	2,116,600	18
TRANS-PECOS								
Red Bluff Reservoir	61	307,000	87,240	28	-10,490	-3	770	0
TOTAL		307,000	87,240	28	-10,490	-3	770	0.3
EDWARDS PLATEAU								
E. V. Spence Reservoir	62	488,760	71,250	15	-3,070	-1	-3,990	-1
Twin Buttes Reservoir	63	177,800	50,970	29	1,220	1	14,060	8
O.C. Fisher Lake	64	119,200	7,550	6	-360	0	-2,390	-2
O. H. Ivie Reservoir	65	554,340	349,600	63	47,100	8	102,000	18
Lake Buchanan	66	896,980	841,020	94	-15,260	-2	213,560	24
Amistad Reservoir (Texas)	67	1,771,030	2,114,000	119	-60,000	-3	240,000	14
Amistad Reservoir (Texas and Mexico)	(67)	3,151,300	2,708,000	86	-28,000	-1	335,000	11
TOTAL		4,008,110	3,434,390	86	-30,370	-1	563,240	14
SOUTH CENTRAL								
Somerville Lake	68	155,060	155,060	100	0	0	24,080	16
Lake Travis	69	1,144,100	1,144,100	100	0	0	405,200	35
Canyon Lake	70	385,600	385,600	100	0	0	45,870	12
Coleto Creek Reservoir	71	35,060	32,450	93	520	1	5,710	16
Medina Lake	72	254,000	254,000	100	47,700	19	128,400	51
TOTAL		1,973,820	1,971,210	100	48,220	2	609,260	31
UPPER COAST								
Lake Houston	73	128,860	128,860	100	0	0	0	0
Lake Texana	74	157,900	153,630	97	-100	0	-3,340	-2
TOTAL		286,760	282,490	99	-100	0	-3,340	-1
SOUTHERN								
Choke Canyon Reservoir	75	695,260	695,260	100	67,760	10	142,260	20
Lake Corpus Christi	76	241,240	241,240	100	0	0	164,130	68
Falcon Reservoir (Texas)	77	1,555,120	729,000	47	176,000	11	78,000	5
Falcon Reservoir (Texas and Mexico)	(77)	2,653,290	1,052,000	40	255,000	10	78,000	3
TOTAL		2,491,620	1,665,500	67	243,760	10	384,390	15
STATE TOTAL		34,470,430	31,912,130	93	580,080	2	6,382,450	19

Note:

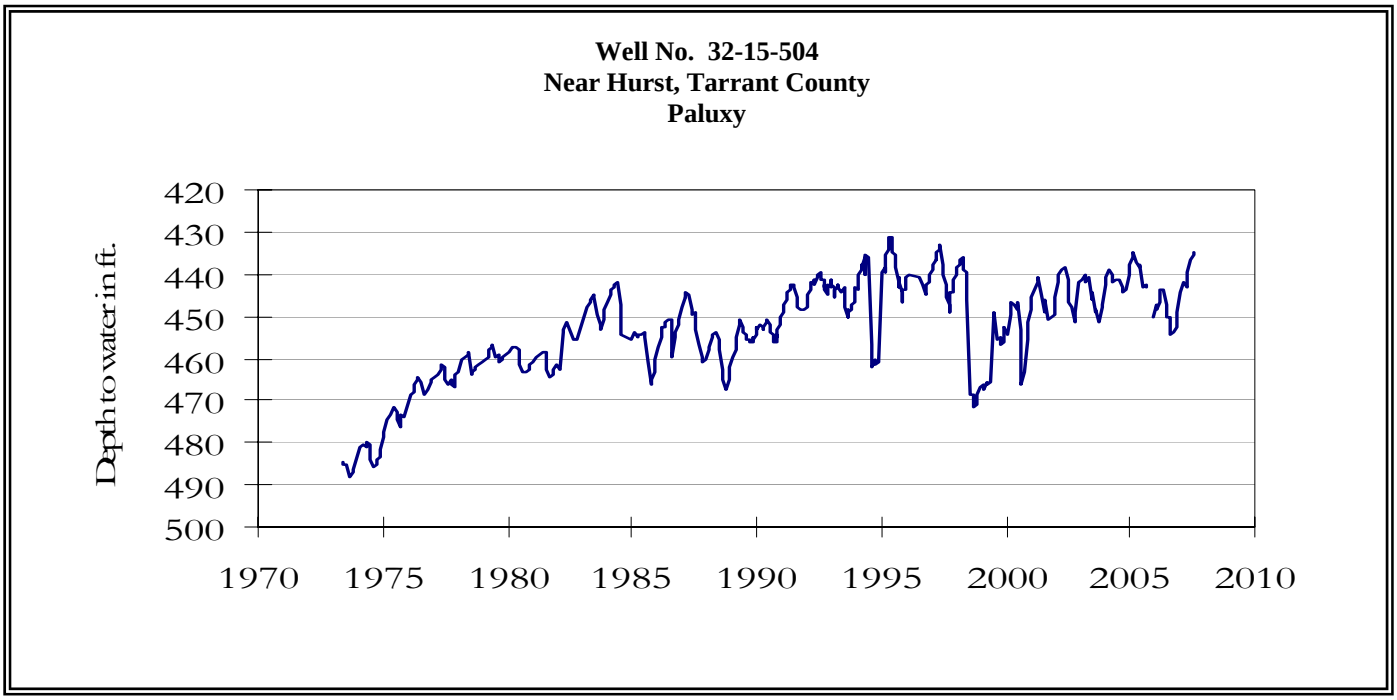
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

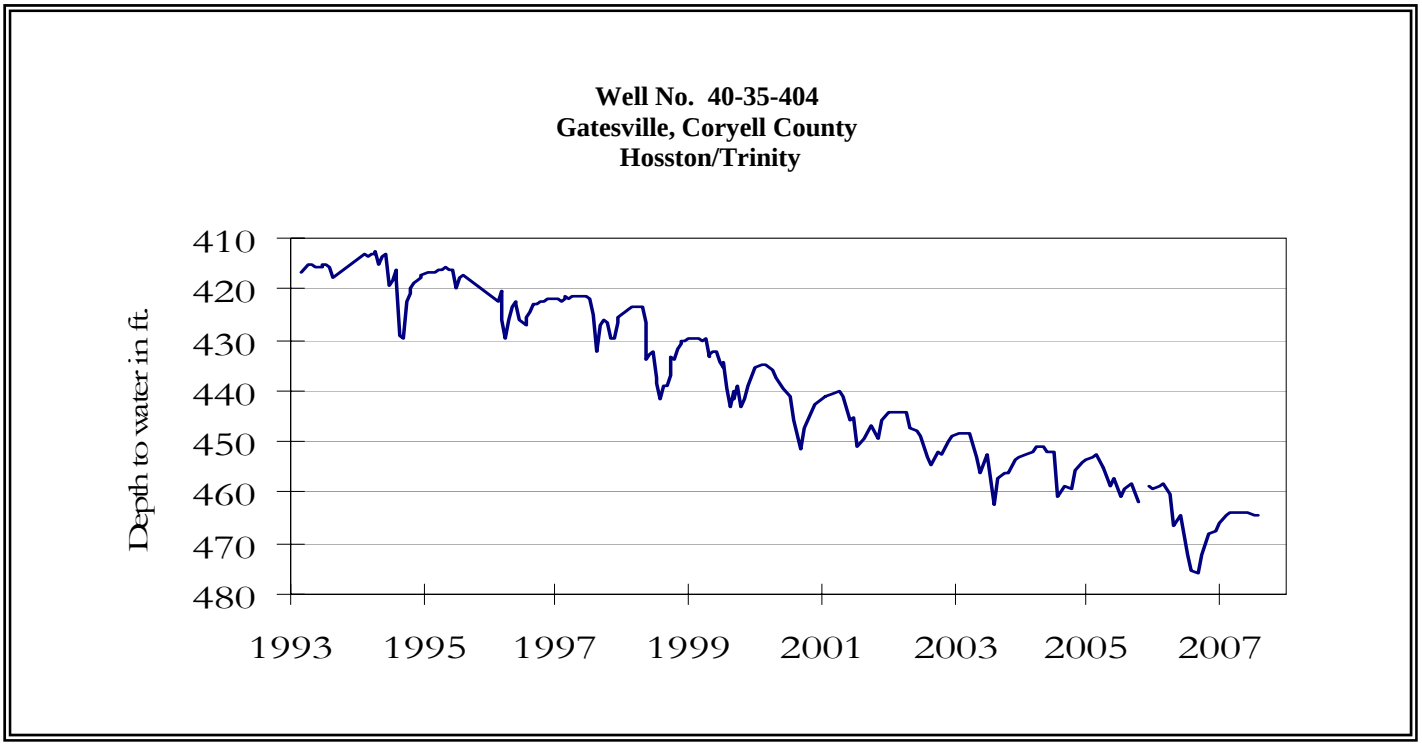
JULY GROUND WATER LEVELS IN OBSERVATION WELLS



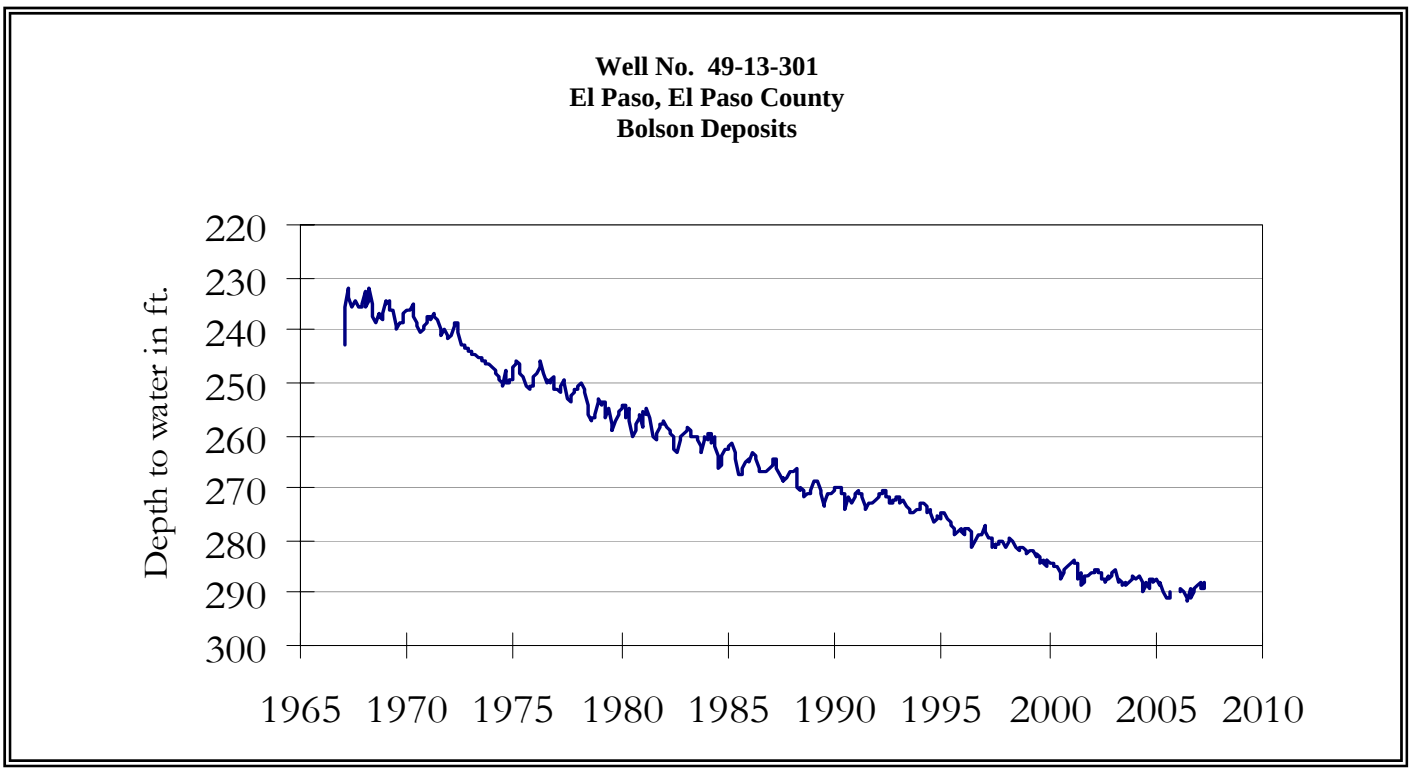
The late July water-level measurement in this Ogallala Aquifer well, elevation 3,816 feet above sea level, was 267.56 feet below land surface. This measurement was 0.22 feet below last month's measurement, 1.04 feet below last year's measurement, and 111.56 feet below the initial measurement recorded in 1968. No water level measurements were recorded for September through December 2005.



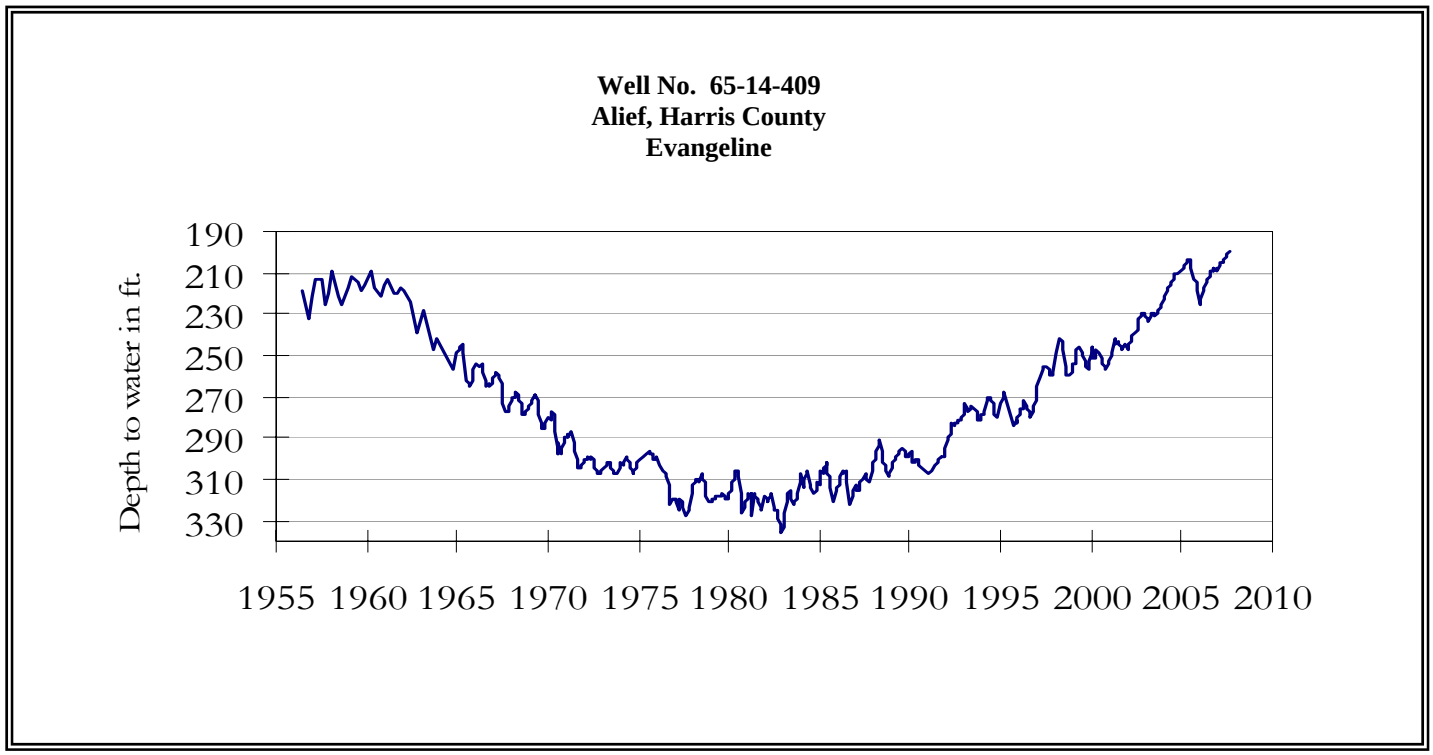
The late July water-level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 434.98 feet below land surface. This measurement was 0.52 feet above last month's measurement, 15.47 feet above last year's measurement, and 56.98 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September or October 2005.



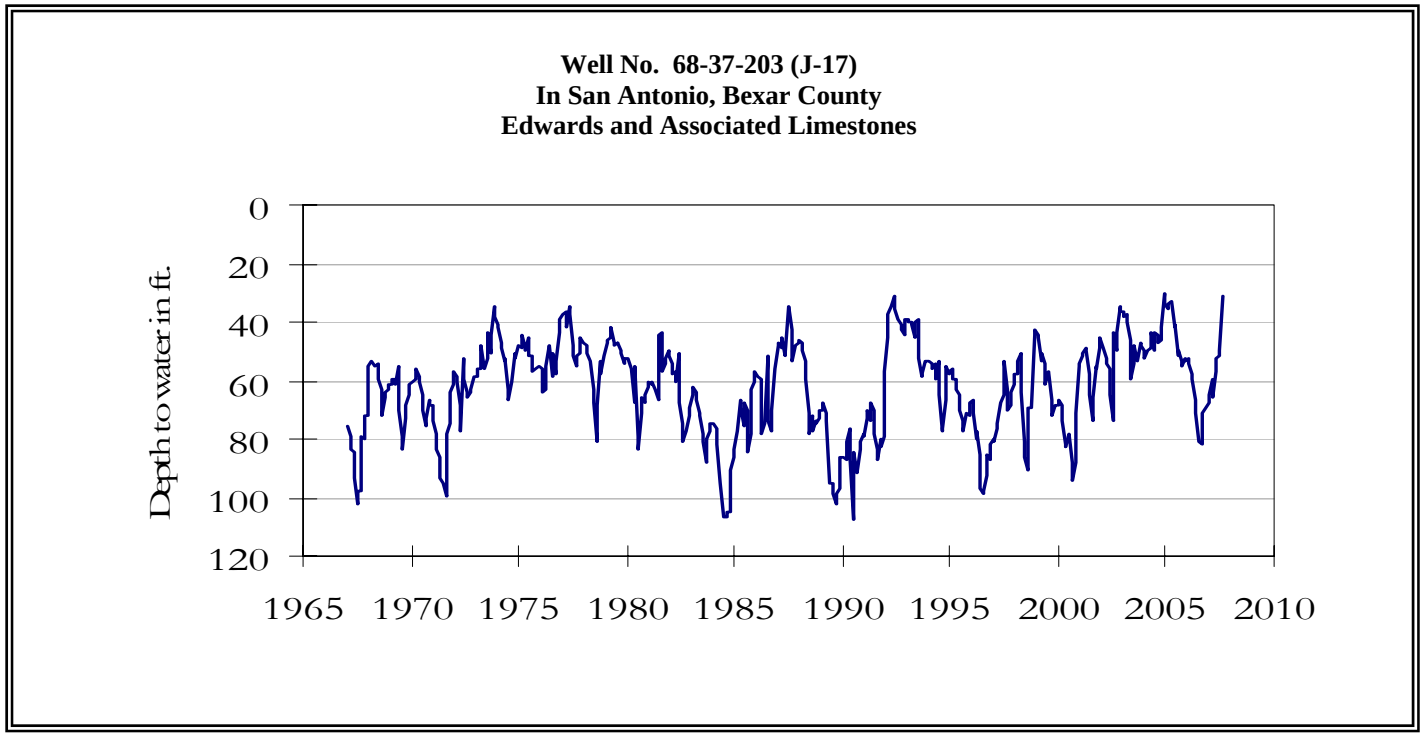
The late July water-level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 464.46 feet below land surface. This water level was 0.24 feet below last month's measurement, 11.10 feet above last year's measurement, and 172.46 feet below the initial measurement recorded in 1955. No water level measurement was recorded for October 2005.



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

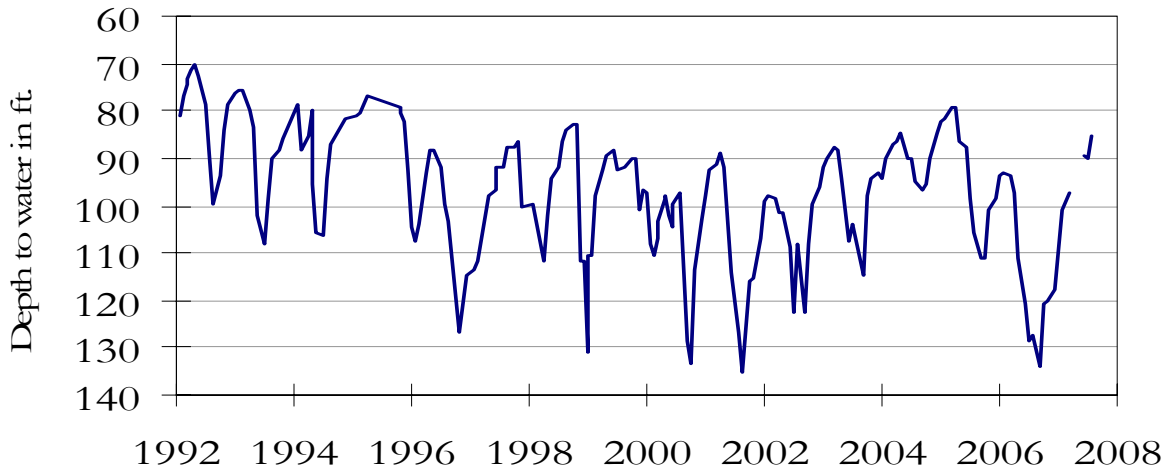


The late July water-level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level, was 199.82 feet below land surface. This was 1.10 feet above last month's measurement, 9.35 feet above last year's measurement, and 64.32 feet below the initial measurement recorded in 1947.



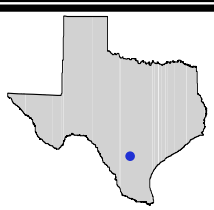
The late July water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 31.40 feet below land surface. This was 18.70 feet above last month's measurement, 49.08 feet above last year's measurement, and 15.24 feet above the initial measurement recorded in 1962.

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



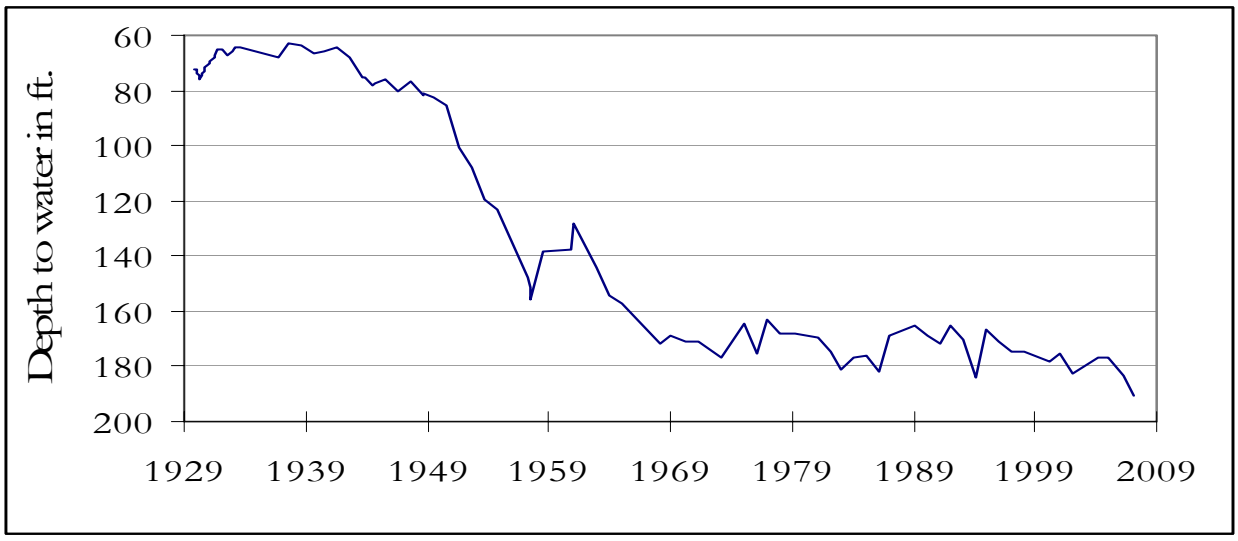
The late July water-level measurement in this Carrizo Aquifer well, elevation 446 feet above sea level, was 85.28 feet below land surface. This measurement was 5.03 feet above last month's measurement, 42.10 feet above last year's measurement, and 49.92 feet below the initial measurement recorded in 1965. No water level measurements were recorded for March and April 2007.

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 No77-42-801
Dimmit County



This water level observation well, located 15 miles south of Carrizo Springs, at an elevation of 613 feet ASL, was completed in the Carrizo-Wilcox Aquifer. Water level declines have occurred in this area due to irrigation pumping.

July, 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 July, ranging from 0.52 feet in the Tarrant Co. Paluxy well to 18.70 feet in the Bexar Co. Edwards well. Water levels declined in the remaining monitoring wells, ranging from 0.22 feet in the Castro Co. Ogallala well to 0.24 feet in the Coryell Co.Trinity well. The J-17 well recorded a water level of 31.40 feet below land surface. This water level is 48.60 feet above the Stage 1 critical management level.

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