

Texas Water Development Board



WATER Conditions

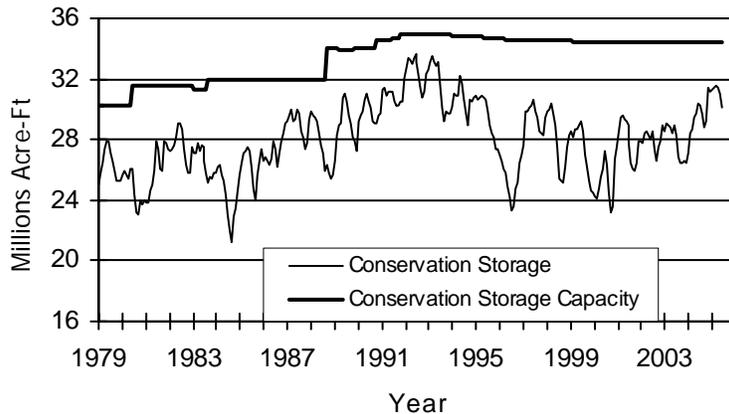
RESERVOIR STORAGE

June 2005

Near the end of June, the 77 reservoirs monitored for this report held 30.17 million acre-feet in conservation storage, or 88 percent of the conservation storage capacity of the state's major reservoirs. Storage decreased during the month by 0.82 million acre-feet (2.4% of conservation storage capacity). Compared to last year, storage decreased by 0.25 million acre-feet (0.7%).

Storage was near capacity in the South Central Region (96%), Upper Coast (96%), Edwards Plateau (93%), East (92%), and North Central (90%) Regions, but slightly lower than one-third of capacity in the High Plains Region (32%). Storage was at 100% in 10 reservoirs, and the Texas share of Amistad continued to remain above its capacity, at 138%. Compared to this time last year, the storage increased in five regions, with the greatest increase in the Edwards Plateau Region (+25%) and decreased in four regions, with the steepest decline in the East Region (-8%).

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS



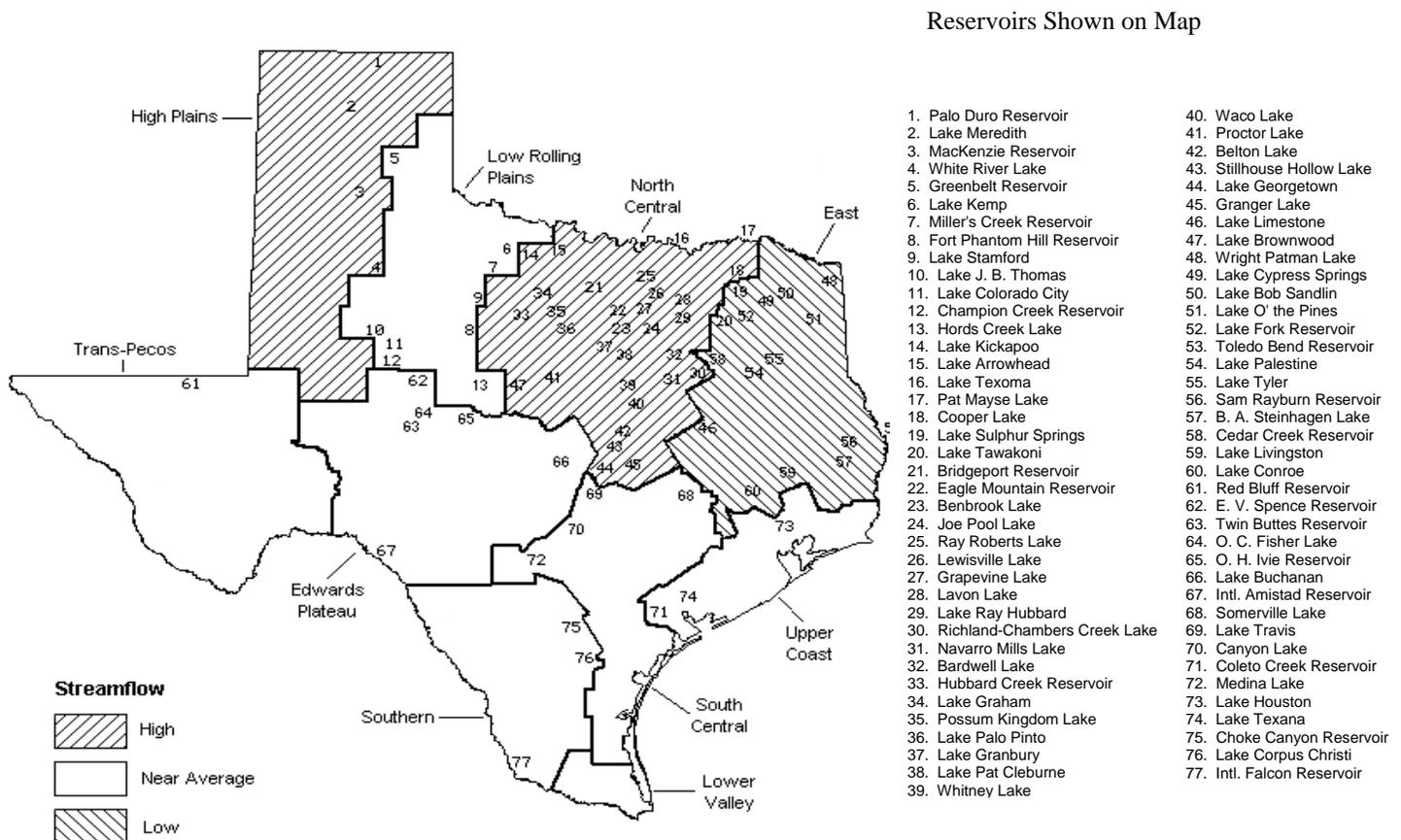
Current data are based on elevation near end of month at 77 reservoirs that represent 98 percent of total conservation storage capacity in Texas reservoirs having a capacity of 5,000 acre-feet or more.

STREAMFLOW

Of 29 reporting index stations in June, computed 30-day mean flows were very high (0% - 5% exceedance) at 1 station, high (5% - 30%) at 8 stations, low (70% - 95%) at 3 stations, very low (95% - 100%) at 1 station, and near normal (30% - 70% exceedance) at the remaining 16 stations. Compared to May, flows have increased at 11 index stations and decreased at 18 stations.

On a regional basis, flows in June were high in the High Plains and North Central Regions, low in the East Texas Region and normal everywhere else. Streamflow in the Lower Valley Region is not monitored.

JUNE STREAMFLOW CONDITIONS



CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation Storage		Conservation Storage Late Jun. 2005		Change since Late May 2005		Change since Late June 2004	
		Capacity (acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
HIGH PLAINS									
Palo Duro Reservoir	1	60,900	3,330	5	-190	0	-3,820	-6	
Lake Meredith (Texas)	2	500,000	182,160	36	13,030	3	43,150	9	
Lake Meredith (Texas and Oklahoma)	(2)	779,560	182,160	23	13,030	2	43,150	6	
MacKenzie Reservoir	3	46,250	10,650	23	570	1	3,090	7	
White River Lake	4	31,850	8,520	27	-670	-2	1,870	6	
TOTAL		639,000	204,660	32	12,740	2	44,290	7	
LOW ROLLING PLAINS									
Greenbelt Reservoir	5	58,200	25,930	45	1,980	3	1,710	3	
Lake Kemp	6	319,600	222,600	70	-12,380	-4	42,640	13	
Miller's Creek Reservoir	7	27,890	20,500	74	280	1	9,850	35	
Fort Phantom Hill Reservoir	8	70,030	58,050	83	-3,560	-5	26,430	38	
Lake Stamford	9	52,700	35,080	67	2,510	5	1,420	3	
Lake J. B. Thomas	10	202,300	53,100	26	-1,470	-1	31,490	16	
Lake Colorado City	11	30,800	28,610	93	-1,010	-3	6,460	21	
Champion Creek Reservoir	12	41,600	4,830	12	-140	0	1,610	4	
Hords Creek Lake	13	8,600	7,750	90	-300	-3	4,980	58	
TOTAL		811,720	456,450	56	-14,090	-2	126,590	16	
NORTH CENTRAL									
Lake Kickapoo	14	106,000	63,180	60	-3,320	-3	8,540	8	
Lake Arrowhead	15	262,100	182,600	70	-4,940	-2	66,020	25	
Lake Texoma	16	2,722,300	2,287,140	84	64,240	2	-404,290	-15	
Pat Mayse Lake	17	124,500	113,550	91	-4,320	-3	-6,920	-6	
Cooper Lake	18	273,000	241,850	89	-19,780	-7	35,320	13	
Lake Sulphur Springs	19	17,710	15,930	90	-920	-5	-1,310	-7	
Lake Tawakoni	20	936,200	802,500	86	-35,300	-4	-88,800	-9	
Bridgeport Reservoir	21	374,830	331,800	89	-11,300	-3	-2,700	-1	
Eagle Mountain Reservoir	22	178,380	160,500	90	-9,800	-5	-17,880	-10	
Benbrook Lake	23	88,200	79,650	90	-3,570	-4	-8,550	-10	
Joe Pool Lake	24	175,800	172,620	98	-3,180	-2	-3,180	-2	
Ray Roberts Lake	25	798,760	780,050	98	-14,820	-2	-18,710	-2	
Lewisville Lake	26	555,000	555,000	100	0	0	0	0	
Grapevine Lake	27	187,700	168,960	90	-9,990	-5	-18,740	-10	
Lavon Lake	28	443,800	420,470	95	-23,330	-5	-21,980	-5	
Lake Ray Hubbard	29	413,420	398,900	96	-14,520	-4	-300	0	
Richland-Chambers Creek Lake	30	1,103,820	1,100,000	100	-3,820	0	-3,820	0	
Navarro Mills Lake	31	55,810	53,340	96	-2,470	-4	-2,470	-4	
Bardwell Lake	32	53,580	45,110	84	-1,910	-4	-5,520	-10	
Hubbard Creek Reservoir	33	317,800	185,990	59	3,170	1	53,300	17	
Lake Graham	34	45,000	38,620	86	-1,040	-2	15,730	35	
Poosum Kingdom Lake	35	551,820	474,600	86	-4,000	-1	5,400	1	
Lake Palo Pinto	36	27,650	23,390	85	-1,890	-7	2,750	10	
Lake Granbury	37	135,680	132,300	98	-1,200	-1	-200	0	
Lake Pat Cleburne	38	25,300	24,100	95	-1,200	-5	-1,200	-5	
Whitney Lake	39	622,800	566,490	91	-32,400	-5	-56,310	-9	
Waco Lake	40	144,500	144,500	100	0	0	0	0	
Proctor Lake	41	55,590	51,860	93	-3,330	-6	-3,730	-7	
Belton Lake	42	434,500	433,720	100	-780	0	-780	0	
Stillhouse Hollow Lake	43	226,060	226,060	100	0	0	0	0	
Lake Georgetown	44	37,010	35,110	95	-1,900	-5	-650	-2	
Granger Lake	45	54,280	54,280	100	0	0	0	0	
Lake Limestone	46	215,750	203,620	94	-8,440	-4	-12,130	-6	
Lake Brownwood	47	143,400	128,850	90	-7,970	-6	-2,720	-2	
TOTAL		11,908,050	10,696,640	90	-164,030	-1	-495,830	-4	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation	Conservation		Change since		Change since		
		Storage Capacity (acre-feet)	Storage Late Jun. 2005 (acre-feet)	(%)	Late May 2005 (acre-feet)	(%)	Late June 2004 (acre-feet)	(%)	
EAST									
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0	
Lake Cypress Springs	49	66,800	64,650	97	-1,890	-3	-2,150	-3	
Lake Bob Sandlin	50	202,300	188,100	93	-9,100	-4	-14,200	-7	
Lake O' the Pines	51	252,000	221,170	88	-10,760	-4	-30,830	-12	
Lake Fork Reservoir	52	635,200	635,200	100	0	0	0	0	
Toledo Bend Reservoir	53	4,472,900	3,826,000	86	-239,000	-5	-646,900	-14	
Lake Palestine	54	411,300	400,250	97	-6,280	-2	-11,050	-3	
Lake Tyler	55	73,700	73,280	99	-420	-1	-420	-1	
Sam Rayburn Reservoir	56	2,876,300	2,753,950	96	-95,290	-3	-122,350	-4	
B. A. Steinhagen Lake	57	94,200	89,840	95	4,280	5	2,990	3	
Cedar Creek Reservoir	58	637,050	614,200	96	-18,000	-3	-22,850	-4	
Lake Livingston	59	1,750,000	1,715,000	98	-35,000	-2	-35,000	-2	
Lake Conroe	60	429,900	399,300	93	-9,900	-2	-30,600	-7	
TOTAL		12,044,350	11,123,640	92	-421,360	-3	-913,360	-8	
TRANS-PECOS									
Red Bluff Reservoir	61	307,000	113,790	37	-11,390	-4	46,150	15	
TOTAL		307,000	113,790	37	-11,390	-4	46,150	15	
EDWARDS PLATEAU									
E. V. Spence Reservoir	62	488,760	70,460	14	-3,040	-1	26,300	5	
Twin Buttes Reservoir	63	177,800	41,820	24	200	0	36,360	20	
O.C. Fisher Lake	64	119,200	6,340	5	-510	0	4,120	3	
O. H. Ivie Reservoir	65	554,340	315,400	57	-5,400	-1	132,960	24	
Lake Buchanan	66	896,980	861,760	96	-15,460	-2	-13,240	-1	
Amistad Reservoir (Texas)	67	1,771,030	2,437,000	138	-41,000	-2	803,000	45	
Amistad Reservoir (Texas and Mexico)	(67)	3,151,300	2,837,000	90	-16,000	-1	1,005,000	32	
TOTAL		4,008,110	3,732,780	93	-65,210	-2	989,500	25	
SOUTH CENTRAL									
Somerville Lake	68	155,060	150,580	97	-4,480	-3	-4,480	-3	
Lake Travis	69	1,144,100	1,083,600	95	-60,500	-5	-60,500	-5	
Canyon Lake	70	385,600	383,980	100	-1,620	0	-1,620	0	
Coletto Creek Reservoir	71	35,060	31,250	89	-190	-1	-110	0	
Medina Lake	72	254,000	250,100	98	-3,900	-2	-3,900	-2	
TOTAL		1,973,820	1,899,510	96	-70,690	-4	-70,610	-4	
UPPER COAST									
Lake Houston	73	128,860	128,860	100	0	0	0	0	
Lake Texana	74	157,900	147,000	93	-8,640	-5	-10,380	-7	
TOTAL		286,760	275,860	96	-8,640	-3	-10,380	-4	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late Jun. 2005 (acre-feet) (%)	Change since Late May 2005 (acre-feet) (%)	Change since Late June 2004 (acre-feet) (%)
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SOUTHERN

Choke Canyon Reservoir	75	695,260	679,000	98	-9,000	-1	-16,000	-2
Lake Corpus Christi	76	241,240	205,000	85	-36,200	-15	-36,240	-15
Falcon Reservoir (Texas)	77	1,555,120	778,000	50	-29,000	-2	82,000	5
Falcon Reservoir (Texas and Mexico)	(77)	2,653,290	1,217,000	46	-25,000	-1	-403,000	-15
TOTAL		2,491,620	1,662,000	67	-74,200	-3	29,760	1

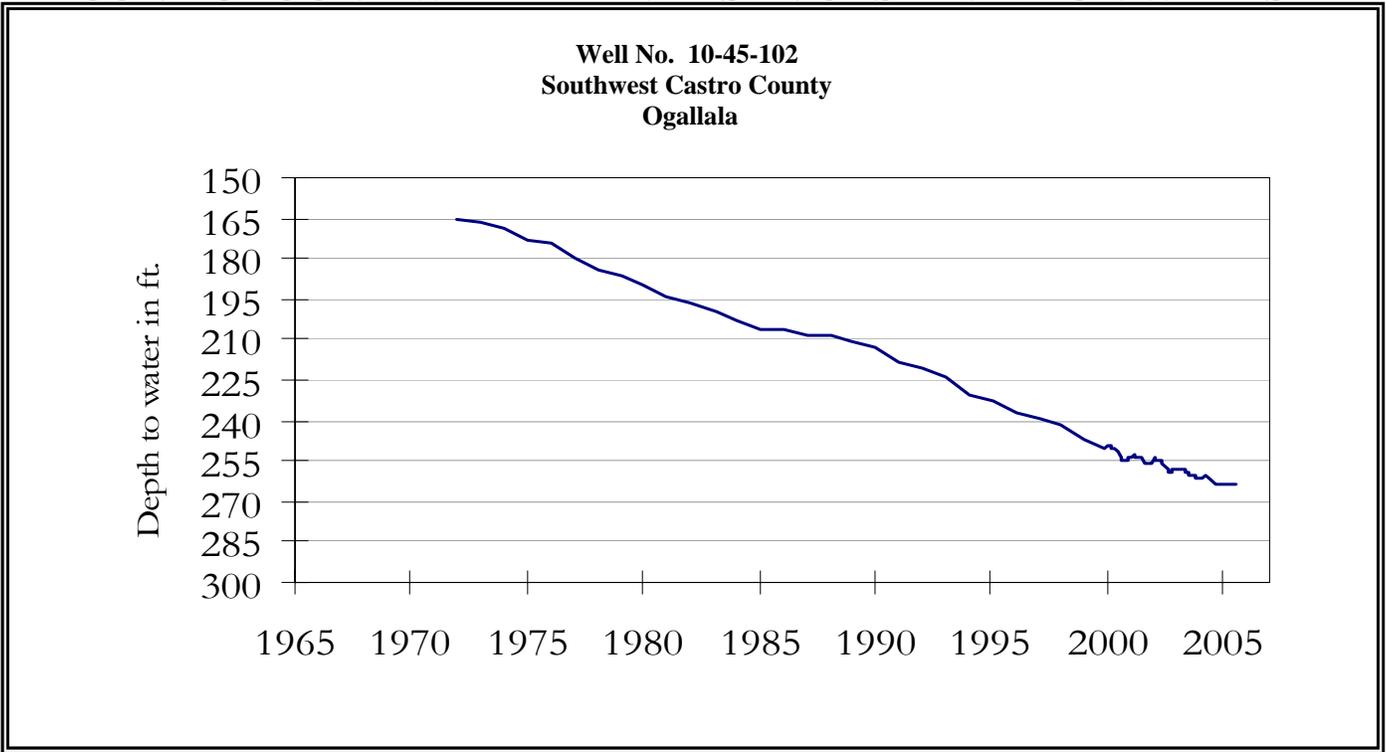
STATE TOTAL		34,470,430	30,165,330	88	-816,870	-2	-253,890	-1
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Note:

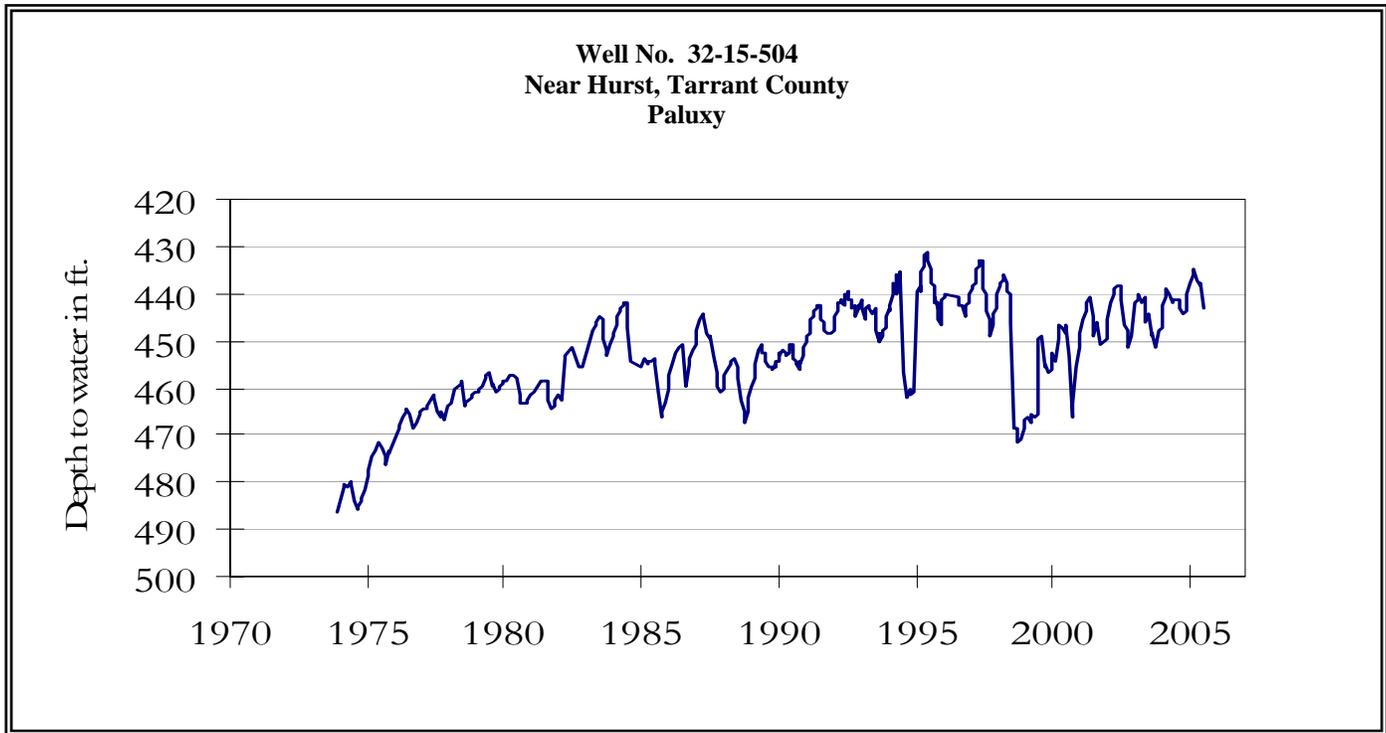
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

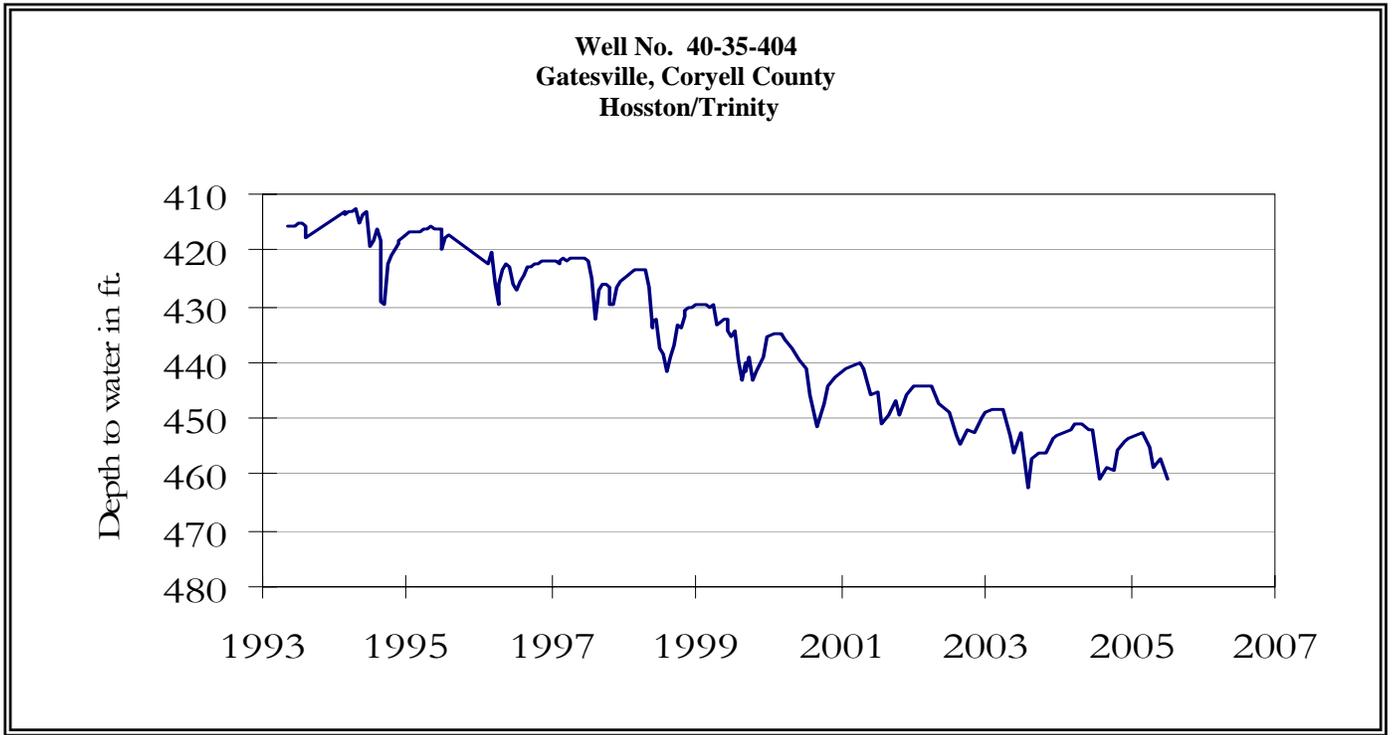
JUNE GROUND WATER LEVELS IN OBSERVATION WELLS



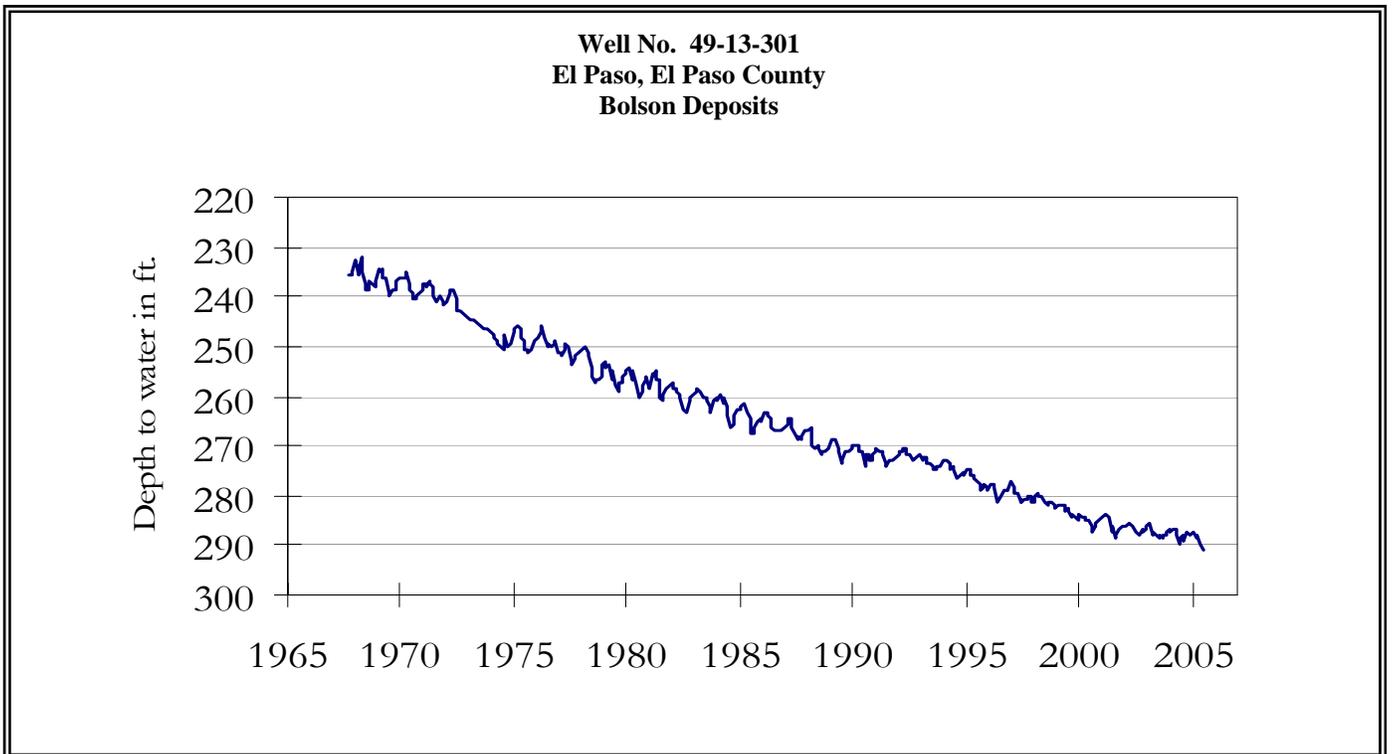
The late June water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 263.86 feet below land surface. This measurement was 0.4 feet below last month's measurement, 1.46 feet below last year's measurement, and 107.86 feet below the initial measurement recorded in 1968.



The late June water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 443.28 feet below land surface. This measurement was 5.36 feet below last month's measurement, 1.78 feet below last year's measurement, and 65.28 feet below the initial measurement recorded in 1953.

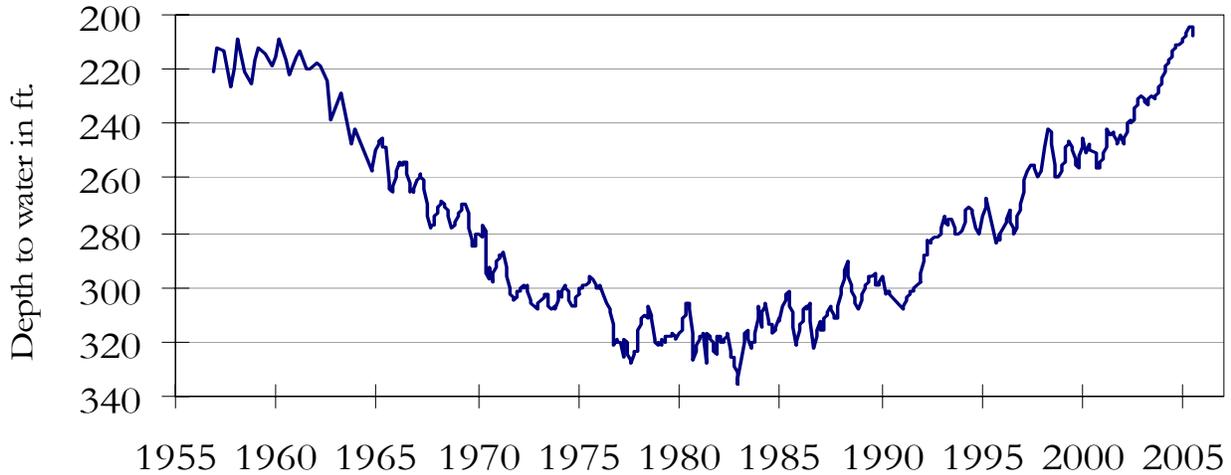


The late June water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 460.82 feet below land surface. This water level was 3.87 feet below last month's measurement, 8.72 feet below last year's measurement, and 168.82 feet below the initial measurement recorded in 1955.



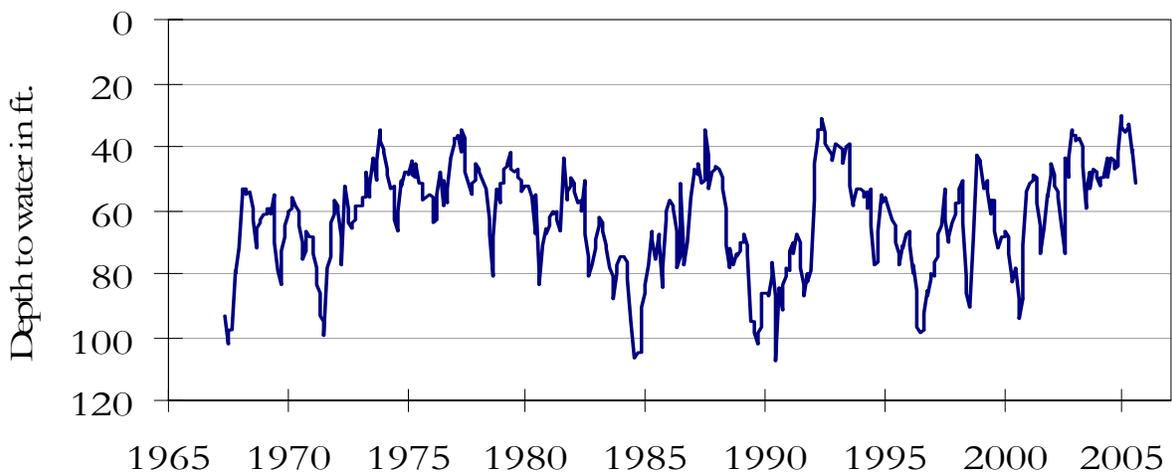
The late June water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 290.70 feet below land surface. This was 0.76 feet below last month's measurement, 1.90 feet below last year's measurement, and 58.80 feet below the initial measurement recorded in 1964.

**Well No. 65-14-409
Alief, Harris County
Evangeline**



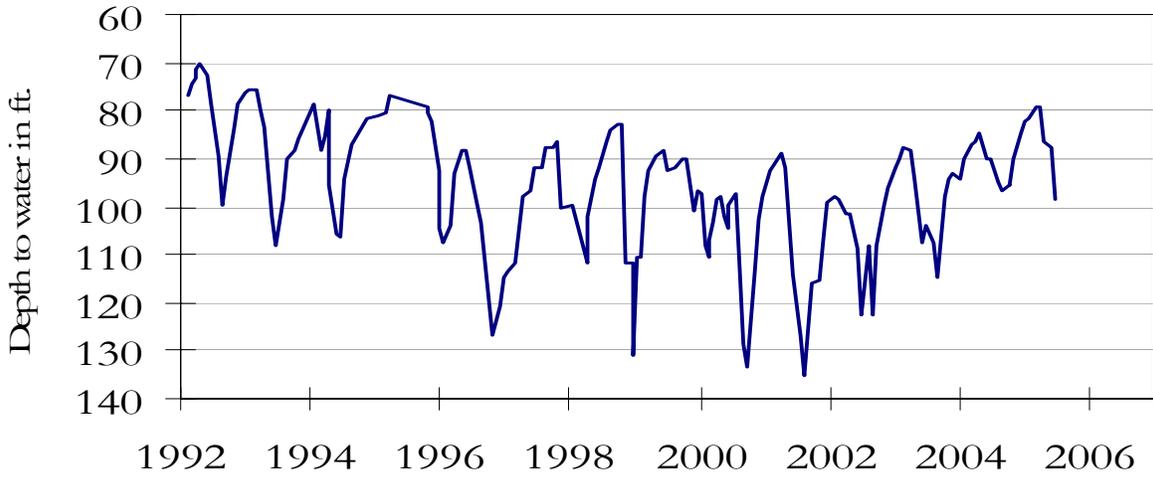
The late June water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 207.43 feet below land surface. This was 3.30 feet below last month's measurement, 5.47 feet above last year's measurement, and 71.93 feet below the initial measurement recorded in 1947.

**Well No. 68-37-203 (J-17)
In San Antonio, Bexar County
Edwards and Associated Limestones**



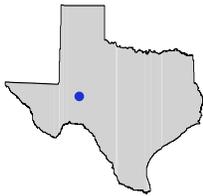
The late June water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 51.94 feet below land surface. This was 11.20 feet below last month's measurement, 8.24 feet below last year's measurement, and 5.30 feet below the initial measurement recorded in 1962.

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



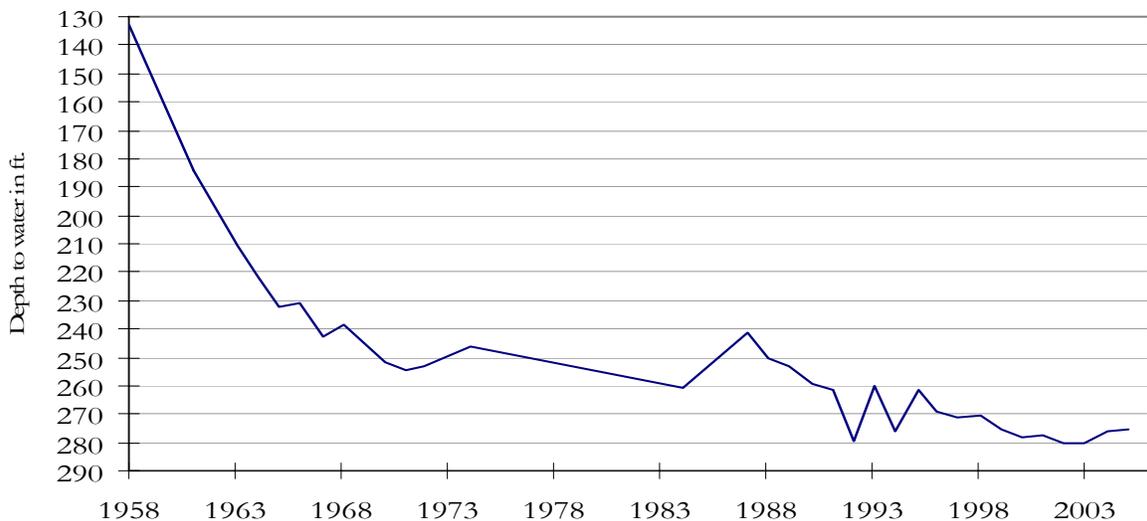
The late June water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 98.22 feet below land surface. This measurement was 10.26 feet below last month's measurement, 8.23 feet below last year's measurement, and 62.86 feet below the initial measurement recorded in 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. 46-48-604 Pecos County



This water level observation well, located 20 miles north of Fort Stockton, at an elevation of 2528 feet ASL, was completed in the Cenozoic Pecos Alluvium aquifer. Water-level declines in excess of 200 feet historically have occurred in this area, but have moderated since the mid 1970s with decrease in irrigation pumpage.

June, 2005

Water levels fell in all of the seven key monitoring wells since the beginning of June, ranging from 0.4 feet in the Castro County Ogallala well to 11.20 feet in the Bexar county J-17 well, which recorded a water level of 51.94 feet below the land surface. The J-17 water level is approximately 28 feet above the Stage I critical water management criteria.

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