Texas Water Development Board

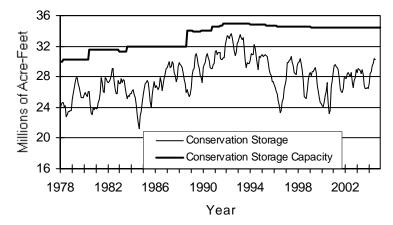


RESERVOIR STORAGE July 2004

Near the end of July, the 77 reservoirs monitored for this report held 30.24 million acre-feet in conservation storage, or 88 percent of the conservation storage capacity of the state's major reservoirs. Statewide total storage is at normal for this time of year. Storage decreased during the month by 178,680 acre-feet (1% of conservation storage capacity). Compared to the previous year, storage is greater, up 1,964,180 acre-feet (6%).

Storage is at capacity in the Upper Coast and South Central Regions, near capacity in the North Central (94%) and the East (98%) Regions, while the High Plains (26%) and Trans-Pecos (22%) Regions remained lower than one-third. Storage is at 100% in 29 reservoirs. Compared to this time last year, the Southern Region had the largest increase in storage (+19%), while the Low Rolling Plains had the steepest decline (-7%).

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS



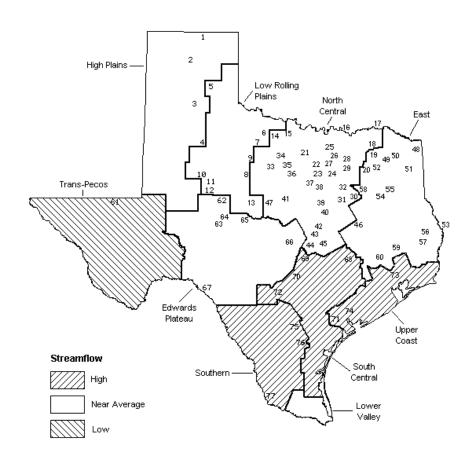
Current data are based on elevation near end of month at 77 reservoirs that represent 98 percent of total conservation storage capacity in Texas reservoirs having a capacity of 5,000 acre-feet or more.

STREAMFLOW

Of 29 reporting index stations in July, computed 30-day mean flows were very high (0% - 5% exceedance) at 2 stations, high (5% - 30% exceedance) at 13 stations, near normal (30% -70% exceedance) at 10 stations, and low (70 - 95%) at 4 stations. In comparison to June, flows increased at 8 index stations, decreased at 20, and remained un-changed at 1 station.

On a regional basis, flows in July were high in the South Central, Upper Coast, and Southern Regions, low in the Trans-Pecos Region, and near normal everywhere else.

JULY STREAMFLOW CONDITIONS



Reservoirs Shown on Map

1. Palo Duro Reservoir Lake Meredith

- 2. 3. MacKenzie Reservoir
- White River Lake 4. Greenbelt Reservoir
- 5. 6. Lake Kemp
- Miller's Creek Reservoir
- 8. Fort Phantom Hill Reservoir
- 9. Lake Stamford
- 10. Lake J. B. Thomas
- Lake Colorado City
 Champion Creek Reservoir
- Hords Creek Lake 13.
- 14 Lake Kickapoo
- Lake Arrowhead 15.
- 16. Lake Texoma
- 17. Pat Mayse Lake
- 18. Cooper Lake
- 19. Lake Sulphur Springs 20.
- Lake Tawakoni 21.
- Bridgeport Reservoir Eagle Mountain Reservoir 22.
- 23. Benbrook Lake
- 24 Joe Pool Lake
- 25. Ray Roberts Lake Lewisville Lake
- 26 27. Grapevine Lake
- 28. . Lavon Lake
- 29. Lake Ray Hubbard 30.
- Richland-Chambers Creek Lake Navarro Mills Lake 31.
 - Bardwell Lake
- 32. 33. Hubbard Creek Reservoir
- 34. Lake Graham 35. Possum Kingdom Lake
- 36. Lake Palo Pinto 37.
 - Lake Granbury Lake Pat Cleburne
- 38. 39.

- 61. Red Bluff Reservoir
- 62. E. V. Spence Reservoir
- O. H. Ivie Reservoir 65.
- 66. Lake Buchanan
- Intl. Amistad Reservoir 67.
- 68 Somerville Lake
- 69. Lake Travis
- 70. Canyon Lake
 - Coleto Creek Reservoir
- 72. Medina Lake
- 75.
- 76. Lake Corpus Christi
- Whitney Lake

46. Lake Limestone 47. Lake Brownwood 48. Wright Patman Lake

40. Waco Lake

44.

45.

49. Lake Cypress Springs

Lake Georgetown

Granger Lake

- 50. Lake Bob Sandlin 51. Lake O' the Pines
- 52. Lake Fork Reservoir 53 Toledo Bend Reservoir
- Lake Palestine 54.
- 55. Lake Tyler
- 56. Sam Rayburn Reservoir
- B. A. Steinhagen Lake 57. 58 Cedar Creek Reservoir
- 59. Lake Livingston
- 60. Lake Conroe
- 63 Twin Buttes Reservoir
- 64. O. C. Fisher Lake

- 71.
- 73. Lake Houston
- 74. Lake Texana
 - Choke Canyon Reservoir
- 77. Intl. Falcon Reservoir

41. Proctor Lake 42. Belton Lake 43. Stillhouse Hollow Lake

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No. Conservation		Conservatio	on	Change sind	e	Change sin	ce
or Reservoir	on	Storage	Storage		Late June		Late July	7
	Map	Capacity	Late July 2	004	2004		2003	
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
	•	HIGH	PLAINS					
Palo Duro Reservoir	1	60,900	6,210	10	-940	-2	2,150	4
Lake Meredith (Texas)	2	500,000	143,660	29	4,650	1	-21,990	-4
Lake Meredith								
(Texas and Oklahoma)	(2)	779,560	143,660	18	4,650	1	-21,990	-3
MacKenzie Reservoir	3	46,250	7,540	16	-20	0	640	1
White River Lake	4	31,850	6,950	22	300	1	-660	-2
TOTAL		639,000	164,360	26	3,990	1	-19,860	- 3
		LOW POL	LING PLAINS					
Greenbelt Reservoir	5		23,610	41	-610	-1	660	1
Lake Kemp	6	319,600	172,280	54	-7,680	-2	-42,080	-13
Miller's Creek Reservoir	7	27,890	14,310	51	3,660	13	-550	-2
Fort Phantom Hill Reservoir	8	70,030	31,170	45	-450	-1	-7,990	-11
Lake Stamford	9	52,700	32,060	61	-1,600	-3	-6,050	-11
Lake J. B. Thomas	10	202,300	21,260	11	-350	0	-720	0
Lake Colorado City	11		21,730	71	-420	-1	2,610	8
Champion Creek Reservoir	12	41,600	3,240	8	20	0	240	1
Hords Creek Lake	13	8,600	2,780	32	10	0	680	8
TOTAL	15	811,720	322,440	40	-7,420	-1	-53,200	-7
		-	-		·			
			I CENTRAL					
Lake Kickapoo	14	106,000	66,310	63	11,670	11	-8,330	-8
Lake Arrowhead	15	262,100	126,800	48	10,220	4	-12,080	-5
Lake Texoma	16	2,722,300	2,709,770	100	18,340	1	104,310	4
Pat Mayse Lake	17	124,500	117,110	94	-3,360	-3	2,100	2
Cooper Lake	18	273,000	198,420	73	-8,110	-3	-74,580	-27
Lake Sulphur Springs	19	17,710	16,650	94	-590	-3	-590	-3
Lake Tawakoni	20	936,200	872,200	93	-19,100	-2	18,400	2
Bridgeport Reservoir	21	374,830	339,000	90	4,500	1	49,200	13
Eagle Mountain Reservoir	22	178,380	173,900	97	-4,480	-3	30,900	17
Benbrook Lake	23	88,200	81,790	93	-6,410	-7	5,830	7
Joe Pool Lake	24		175,800	100	0	0	230	0
Ray Roberts Lake	25	798,760	798 , 760	100	0	0	28,400	4
Lewisville Lake	26	555,000	555,000	100	0	0	0	0
Grapevine Lake	27	187,700	187,700	100	0	0	14,510	8
Lavon Lake	28	443,800	441,190	99	-1,260	0	38,240	9
Lake Ray Hubbard	29	413,420	407,200	98	8,000	2	18,700	5
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	3,100	6
Bardwell Lake	32	-	46,980	88	-3,650	-7	820	2
Hubbard Creek Reservoir	33	-	127,220	40	-5,470	-2	-12,780	-4
Lake Graham	34	-	25,860	57	2,970	7	-1,490	-3
Possum Kingdom Lake	35	-	460,000	83	-9,200	-2	-25,200	-5
Lake Palo Pinto	36	27,650	20,840	75	200	1	3,560	13
Lake Granbury	37	-	133,700	99	1,200	1	400	0
Lake Pat Cleburne	38	25,300	25,300	100	0	0	2,180	9
Whitney Lake	39	622,800	619,890	100	-2,910	0	164,030	26
Waco Lake	40	-	144,500	100	0	0	4,500	3
	41	55,590	53,900	97	-1,690	-3	3,470	6
Proctor Lake	41			1	^	^	6,310	1
Proctor Lake Belton Lake	42	434,500	434,500	100	0	0		
Proctor Lake Belton Lake Stillhouse Hollow Lake	42 43	434,500 226,060	226,060	100	0	0	950	0
Proctor Lake Belton Lake Stillhouse Hollow Lake Lake Georgetown	42 43 44	434,500 226,060 37,010	226,060 36,360	100 98	0 600	0 2		0
Proctor Lake Belton Lake Stillhouse Hollow Lake Lake Georgetown Granger Lake	42 43 44 45	434,500 226,060 37,010 54,280	226,060 36,360 54,280	100 98 100	0 600 0	0 2 0	950 3,860 690	0 10 1
Proctor Lake Belton Lake Stillhouse Hollow Lake Lake Georgetown Granger Lake Lake Limestone	42 43 44 45 46	434,500 226,060 37,010 54,280 215,750	226,060 36,360 54,280 211,400	100 98 100 98	0 600 0 -4,350	0 2 0 -2	950 3,860 690 3,000	0 10 1 1
Proctor Lake Belton Lake	42 43 44 45	434,500 226,060 37,010 54,280 215,750	226,060 36,360 54,280	100 98 100	0 600 0	0 2 0	950 3,860 690	0 10 1

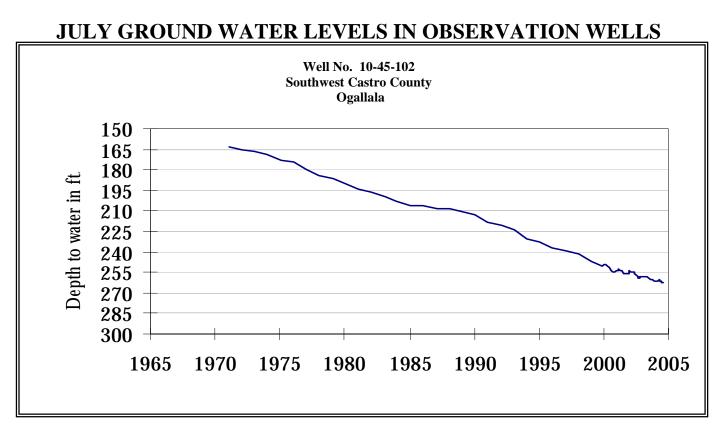
CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	ervation Conservation			ce	Change sin	ce
or Reservoir	on	Storage	Storage		Change since Late June		Late July	
	Map	Capacity	Late July 2	004	2004		2003	
	-	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
Wright Patman Lake	48	142,700	EAST 142,700	100	0	0	0	0
Lake Cypress Springs		-	-	100	0	0		2
Lake Bob Sandlin	49 50	66,800 202,300	66,800	100	-500	0	1,330	4
Lake O' the Pines	50	252,000	201,800 252,000	100	-300	0	7,400 21,840	- 9
Lake Fork Reservoir	51	635,200	635,200	100	0	0	22,000	3
Toledo Bend Reservoir	52	4,472,900	4,358,000	97	-114,900	-3	269,000	6
Lake Palestine	54	4,472,900	405,270	97 99	-6,030	-3 -1	5,270	0
Lake Tyler	55	73,700	73,700	100	-0,050	0	0	0
Sam Rayburn Reservoir	55	2,876,300	2,874,410	100	-1,890	0	65,530	2
B. A. Steinhagen Lake	57	2,878,300 94,200	69,160	73	-17,690		-25,040	-27
Cedar Creek Reservoir	58	637,050	622,900	98	-14,150	-19	6,800	1
Lake Livingston	59	1,750,000	1,744,000	100	-6,000	0	-5,000	0
Lake Conroe	60	429,900	410,600	96	-19,300	-4	-200	0
TOTAL	00	12,044,350	11,856,540	98	-180,460	-1	368,930	3
IUIAL		12,044,330	11,850,540	90	-180,400	-1	300,930	5
		TRAN	S-PECOS					
Red Bluff Reservoir	61	307,000	68,300	22	660	0	13,860	5
TOTAL		307,000	68,300	22	660	0	13,860	5
		EDWARD	S PLATEAU					
E. V. Spence Reservoir	62	488,760	41,890	9	-2,270	0	-13,560	-3
Twin Buttes Reservoir	63	177,800	4,890	3	-570	0	-200	0
O.C. Fisher Lake	64	119,200	1,890	2	-330	0	-2,090	-2
O. H. Ivie Reservoir	65	554,340	173,780	31	-8,660	-2	-37,020	-7
Lake Buchanan	66	896,980	853,030	95	-21,970	-2	28,090	3
Amistad Reservoir (Texas)	67	1,771,030	1,674,000	95	40,000	2	725,000	41
Amistad Reservoir								
(Texas and Mexico)	(67)	3,151,300	1,888,000	60	56,000	2	709,000	22
TOTAL		4,008,110	2,749,480	69	6,200	0	700,220	17
		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	115,400	10
Canyon Lake	70	385,600	385,600	100	0	0	450	0
Coleto Creek Reservoir	71	35,060	31,770	91	410	1	540	2
Medina Lake	72	254,000	254,000	100	0	0	3,900	2
TOTAL		1,973,820	1,970,530	100	410	0	120,290	6
		IIDDE	R COAST					
Lake Houston	73			100	^	•	0	^
Lake Houston Lake Texana	73	128,860	128,860 157,270	100 100	0	0		0 1
TOTAL	/4	157,900 286,760	286,130	100	-110 -110	0	1,320 1,320	0
		-					-	
Choke Canver Decoments	95		JTHERN	100	2 000	^	2	^
Choke Canyon Reservoir Lake Corpus Christi	75 76	695,260 241 240	692,000 241 240	100 100	-3,000 0	0	2,000 0	0
		241,240	241,240					0 20
Falcon Reservoir (Texas) Falcon Reservoir	77	1,555,120	714,000	46	18,000	1	459,000	30
(Texas and Mexico)	(77)	2,653,290	1,673,000	63	53,000	2	1,267,000	48
TOTAL		2,491,620	1,647,240	66	15,000	1	461,000	19
STATE TOTAL		34,470,430	30,240,540	88	-178,680	-1	1,964,180	6

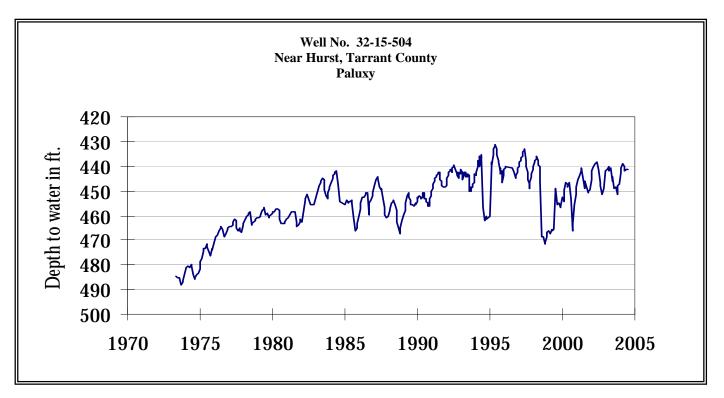
Note:

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.

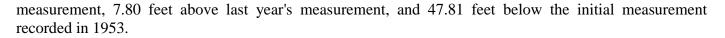
Current data are based on elevations near end of month at 77 reservoirs that together represent 98 percent of the total conservation storage capacity of major Texas reservoirs (those with capacity of 5,000 acre-feet or more each). Preliminary figures are shown for the Texas' share of conservation storage in all reservoirs.

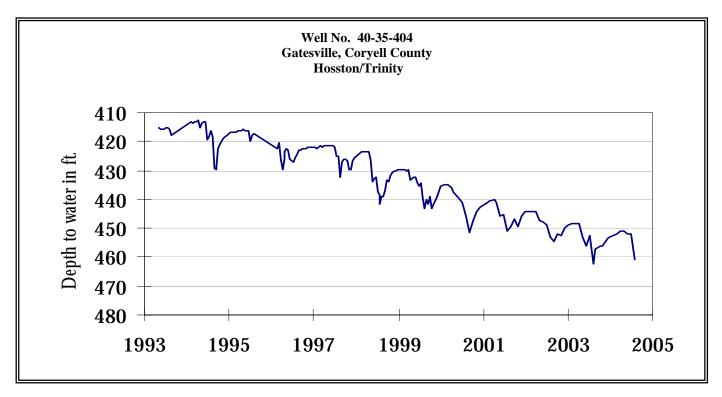


The late July water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 263.00 feet below land surface. This measurement was 0.60 foot below last month's measurement, 3.10 feet below last year's measurement, and 107.00 feet below the initial measurement recorded in 1968.

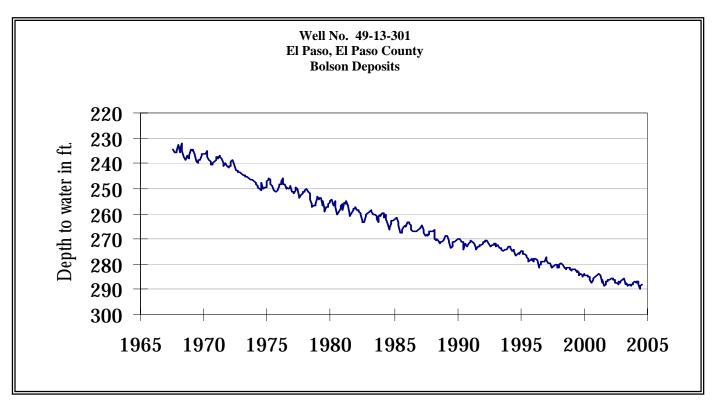


The late July water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 441.20 feet below land surface. This measurement was 0.30 feet above last month's



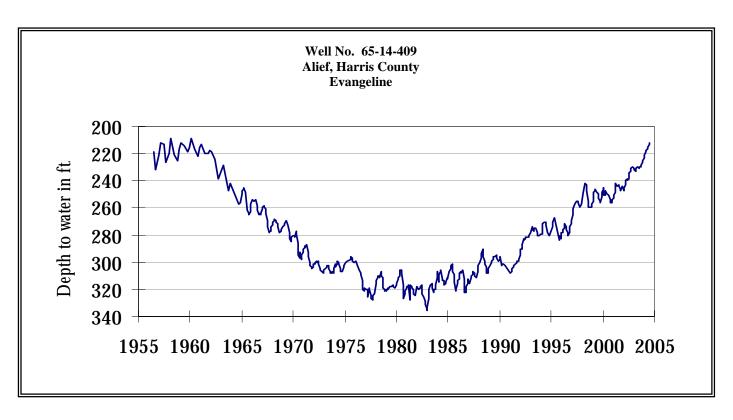


The late July water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 460.60 feet below land surface. This water level was 8.50 below last month's measurement, 1.70 feet above last year's measurement, and 168.60 feet below the initial measurement recorded in 1955.

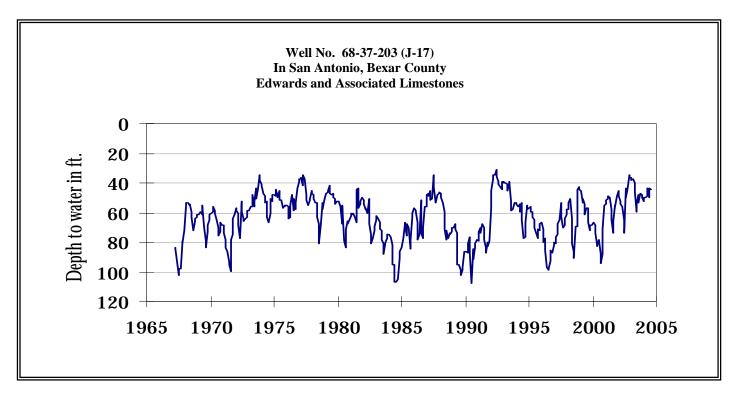


The late July water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 287.90 feet below land surface. This was 0.90 foot above last month's measurement, this water

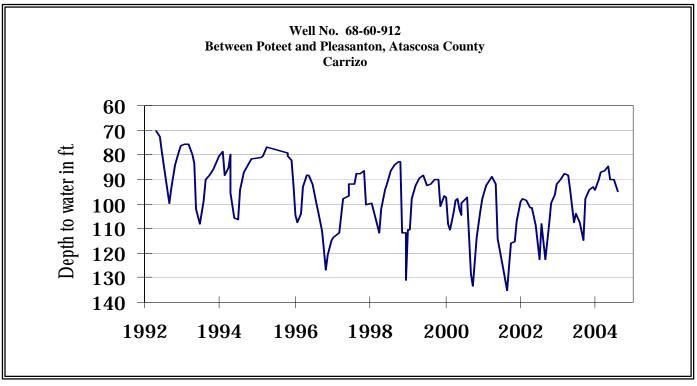
level depth is the same as last year's measurement, and 56.00 feet below the initial measurement recorded in 1964.



The late July water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 212.00 feet below land surface. This was 0.90 foot above last month's measurement, 17.60 feet above last year's measurement, and 108.77 feet below the initial measurement recorded in 1947.

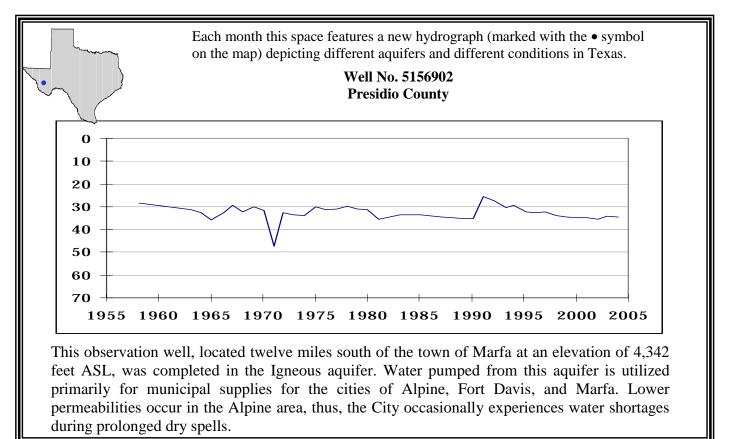


The late July water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 44.40 feet below land surface. This was 0.70 foot below last month's measurement, 3.60 feet above last year's measurement, and 15.22 feet above the initial measurement recorded in 1962



The late July water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 95.09 feet below land surface. This measurement was 5.10 feet below last month's measurement, 12.48 feet above last year's measurement, and 13.84 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



July 31, 2004

Water levels increased in three key monitoring wells since the beginning of July, ranging from 0.3 feet in the Near Hurst well, Tarrant County (Paluxy aquifer) to 0.9 feet in the El Paso Well, El Paso County (Bolson deposits) and Alief well, Harris County (Evangeline aquifer), and decreased in four key monitoring wells, ranging from 0.6 feet in the Southwest Castro County well (Ogallala aquifer) to 8.5 feet in the Gatesville Well, Coryell County (Trinity aquifer).

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