Texas Water Development Board

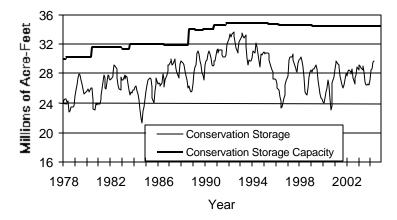


RESERVOIR STORAGE *May 2004*

Near the end of May, the 77 reservoirs monitored for this report held 29.7 million acre-feet in conservation storage, or 86.2 percent of the conservation storage capacity of the state's major reservoirs. Statewide total storage is at normal for this time of year. Storage increased during the month by 203,460 acre-feet (0.6% of conservation storage capacity). Compared to the previous year, storage is greater, up 1,236,970 acre-feet (3.6%).

Storage is at capacity (100%) in the Upper Coast Region, near capacity in South Central and the East Regions (99%), while the High Plains (23%) and Trans-Pecos (27%) Regions remained lower than one-third. Storage is at 100% in 23 reservoirs. Compared to this time last year, the Edwards Plateau Region had the largest increase in storage (+19.6%), while the High Plains and the Low Rolling Regions had the steepest decline (-5.7%).

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS



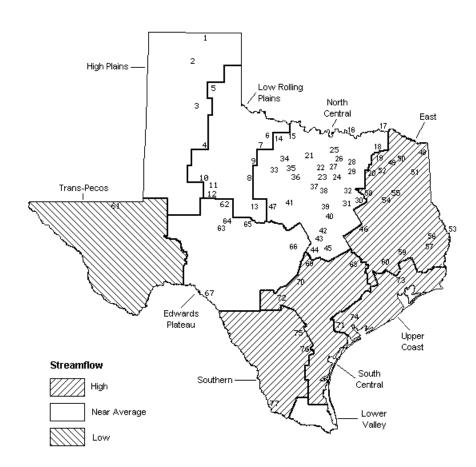
Current data are based on elevation near end of month at 77 reservoirs that represent 98 percent of total conservation storage capacity in Texas reservoirs having a capacity of 5,000 acre-feet or more.

STREAMFLOW

Of 29 reporting index stations in May, computed 31-day mean flows were very high (0% - 5% exceedance) at 3 stations, high (5% - 30% exceedance) at 12 stations, near normal (30% -70% exceedance) at 11 stations, and low (70 - 95%) at 3 stations. In comparison to April, flows increased at 10 index stations, and decreased at 19.

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

MAY STREAMFLOW CONDITIONS



Reservoirs Shown on Map

1. Palo Duro Reservoir 2. Lake Meredith

- 3. MacKenzie Reservoir
- 4. White River Lake Greenbelt Reservoir
- 5. 6. Lake Kemp
- 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
- Cooper Lake 18. 19
- Lake Sulphur Springs Lake Tawakoni 20.
- 21
- Bridgeport Reservoir Eagle Mountain Reservoir 22.
- 23. Benbrook Lake
- 24 Joe Pool Lake 25. Ray Roberts Lake
- 26 Lewisville Lake
- 27. Grapevine Lake 28.

32.

- Lavon Lake
- Lake Ray Hubbard Richland-Chambers Creek Lake 29 30.
- 31. Navarro Mills Lake
 - Bardwell Lake
- 33. Hubbard Creek Reservoir 34. Lake Graham
- Possum Kingdom Lake 35.
- 36. Lake Palo Pinto
- 37. Lake Granbury 38. Lake Pat Cleburne
- 39. Whitney Lake

- Lake Limestone 47. Lake Brownwood 48. Wright Patman Lake
- 49. Lake Cypress Springs 50 Lake Bob Sandlin
- 51. Lake O' the Pines

44. Lake Georgetown

Granger Lake

- 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

40. Waco Lake

41. Proctor Lake 42. Belton Lake43. Stillhouse Hollow Lake

45.

46.

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No. Conservation		Conservation		Change since		Change since		
or Reservoir	on	Storage	Storage		Late Apri	L	Late May		
	Map	Capacity	Late May		2004	(0)	2003	(0)	
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
		-	PLAINS						
Palo Duro Reservoir	1	60,900	2,270	4	-60	0	-940	-2	
Lake Meredith (Texas)	2	500,000	134,360	27	-6,370	-1	-35,570	-7	
Lake Meredith	(0)		124 260	1 1	6 380	1	25 580	-	
(Texas and Oklahoma) MacKenzie Reservoir	(2) 3	779,560	134,360	17 12	-6,370 -230	-1 0	-35,570	-5 -4	
White River Lake	4	46,250 31,850	5,500 6,580	21	-230	-2	-1,680 1,900	-4 6	
TOTAL		639,000	148,710	23	-7,330	-2 -1	-36,290	-6	
Greenbelt Reservoir	-		ING PLAINS	40	780	1	1 710	2	
	5	58,200	24,460	42	-780	-1	1,710	3	
Lake Kemp Miller's Creek Reservoir	6 7	319,600 27,890	168,550	53 40	-14,300 -670	-4 -2	-51,790 -2,310	-16 -8	
Fort Phantom Hill Reservoir	8	70,030	11,040 31,850	40	-910	-1	-3,710	-0 -5	
Lake Stamford	9	52,700	30,430	58	-1,700	-3	-4,410	-8	
Lake J. B. Thomas	9 10	202,300	21,850	11	-2,230	-3 -1	3,780	-0	
Lake Colorado City	11	30,800	22,760	74	-920	-3	8,330	27	
Champion Creek Reservoir	12	41,600	3,350	8	-240	-1	1,360	3	
Hords Creek Lake	13	8,600	2,720	32	-80	-1	580	7	
TOTAL		811,720	317,010	39	-21,830	- 3	-46,460	-6	
		NORTH	CENTRAL						
Lake Kickapoo	14	106,000	56,230	53	-3,160	- 3	-20,210	-19	
Lake Arrowhead	15	262,100	115,650	44	-3,360	-1	-31,140	-12	
Lake Texoma	16	2,722,300	2,491,900	92	13,270	0	-40,170	-1	
Pat Mayse Lake	17	124,500	117,110	94	-1,050	-1	-2,140	-2	
Cooper Lake	18	273,000	206,400	76	-9,730	-4	-66,600	-24	
Lake Sulphur Springs	19	17,710	17,040	96	1,440	8	-670	-4	
Lake Tawakoni	20	936,200	871 , 800	93	10,200	1	-13,400	-1	
Bridgeport Reservoir	21	374,830	227,400	61	-2,800	-1	-42,200	-11	
Eagle Mountain Reservoir	22	178,380	141,500	79	-9,200	- 5	-700	0	
Benbrook Lake	23	88,200	88,200	100	4,940	6	6,060	7	
Joe Pool Lake	24	175,800	175,800	100	0	0	0	0	
Ray Roberts Lake	25	798,760	758,100	95	0	0	-37,650	- 5	
Lewisville Lake	26	555,000	555,000	100	0	0	0	0	
Grapevine Lake	27	187,700	165,050	88	-12,460	-7	-20,760	-11	
Lavon Lake	28	443,800	403,540	91	-5,330	-1	-38,280	-9	
Lake Ray Hubbard Richland-Chambers Creek Lake	29 30	413,420 1,103,820	366,100 1,103,820	89 100	-10,000 0	-2 0	-39,800 0	-10 0	
Navarro Mills Lake	30	55,810	55,810	100	0	0	640		
Bardwell Lake	31	53,580	46,760	87	-6,820	-13	-2,760	1 -5	
Hubbard Creek Reservoir	33	317,800	128,770	41	-3,090	-13	-9,330	-3	
Lake Graham	34	45,000	22,700	50	-710	-2	-3,960	-9	
Possum Kingdom Lake	35	551,820	438,100	79	-4,300	-1	-3,600	-1	
Lake Palo Pinto	36	27,650	18,470	67	1,240	4	-520	-2	
Lake Granbury	37	135,680	133,300	98	-300	0	-200	0	
Lake Pat Cleburne	38	25,300	25,300	100	0	0	340	1	
Whitney Lake	39	622,800	584,420	94	27,560	4	107,980	17	
Waco Lake	40	144,500	144,500	100	0	0	60	0	
Proctor Lake	41	55,590	51,990	94	-1,380	-2	-1,910	- 3	
Belton Lake	42	434,500	434,500	100	0	0	1,270	0	
Stillhouse Hollow Lake	43	226,060	226,060	100	0	0	0	0	
Lake Georgetown	44	37,010	30,940	84	2,750	7	-4,950	-13	
Granger Lake	45	54,280	54,280	100	0	0	0	0	
						-			
Lake Limestone	46	215,750	210,490	98	-3,540	-2	-1,610		
Lake Limestone Lake Brownwood TOTAL	46 47	215,750 143,400 11,908,050	210,490 130,200 10,597,230	98 91 89	-3,540 -3,520 -19,350	-2 -2 0	-1,610 2,250 -263,960	-1 2 -2	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	ervation Conservation		Change since		Change since	
or Reservoir	on	Storage	Storage Storage		Late Apri	L	Late May 2003	
	Map	Capacity	Late May 2	2004	2004			
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
			ST					
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	252,000	100	0	0	14,900	6
Lake Fork Reservoir	52	635,200	635,200	100	0	0	7,800	1
Toledo Bend Reservoir	53	4,472,900	4,428,000	99	171,000	4	216,000	5
Lake Palestine	54	411,300	411,300	100	0	0	0	0
Lake Tyler	55	73,700	73,700	100	0	0	0	0
Sam Rayburn Reservoir	56	2,876,300	2,876,300	100	0	0	28,180	1
B. A. Steinhagen Lake	57	94,200	90,620	96	4,670	5	390	0
Cedar Creek Reservoir	58	637,050	630,700	99	21,400	3	-4,000	-1
Lake Livingston	59	1,750,000	1,737,000	99	-13,000	-1	13,000	1
Lake Conroe	60	429,900	415,500	97	-500	0	8,800	2
TOTAL		12,044,350	11,962,120	99	183,570	2	285,070	2
		TRANS	-PECOS					
Red Bluff Reservoir	61	307,000	83,760	27	-9,330	- 3	25,120	8
TOTAL		307,000	83,760	27	-9,330	- 3	25,120	8
		EDWARDS	PLATEAU					
E. V. Spence Reservoir	62	488,760	46,110	9	-3,030	-1	14,410	3
Twin Buttes Reservoir	63	177,800	5,440	3	-380	0	-560	0
0.C. Fisher Lake	64	119,200	2,480	2	-290	0	140	0
0. H. Ivie Reservoir	65	554,340	187,530	34	-7,780	-1	-770	0
Lake Buchanan	66	896,980	863,950	96	-2,180	0	10,920	1
Amistad Reservoir (Texas)	67	1,771,030	1,609,000	91	44,000	2	761,000	43
Amistad Reservoir	07	1,,,1,,050	1,009,000	1	11,000	4	,01,000	-13
(Texas and Mexico)	(67)	3,151,300	1,795,000	57	37,000	1	829,000	26
TOTAL	(07)	4,008,110	2,714,510	68	30,340	1	785,140	20
101111		1,000,110	2,,11,310	50	50,540	-	,35,140	20
			CENTRAL					
Somerville Lake	68	155,060	155,060	100	0	0	230	0
Lake Travis	69	1,144,100	1,135,800	99	-8,300	-1	41,400	4
Canyon Lake	70	385,600	385,600	100	0	0	0	0
Coleto Creek Reservoir	71	35,060	32,120	92	300	1	3,270	9
Medina Lake	72	254,000	254,000	100	0	0	7,200	3
TOTAL		1,973,820	1,962,580	99	-8,000	0	52,100	3
		UPPER	COAST					
Lake Houston	73	128,860	128,860	100	0	0	0	0
Lake Texana	74	157,900	156,870	99	-610	0	22,970	15

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

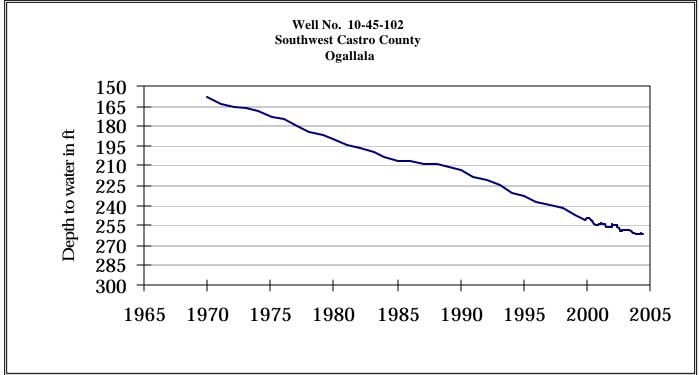
Name of Lake or Reservoir	No. Conservation Conservation on Storage Storage		on	Change since Late April		Change since Late May		
	Map	Capacity	Late May 2004		2004		2003	
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
		SOUI	HERN					
Choke Canyon Reservoir	75	695,260	691,000	99	-2,000	0	6,000	1
Lake Corpus Christi	76	241,240	241,240	100	0	0	17,280	7
Falcon Reservoir (Texas)	77	1,555,120	695,000	45	58,000	4	390,000	25
Falcon Reservoir								
(Texas and Mexico)	(77)	2,653,290	1,606,000	61	104,000	4	1,265,000	48
TOTAL		2,491,620	1,627,240	65	56,000	2	413,280	17
STATE TOTAL		34,470,430	29,698,890	86	203,460	1	1,236,970	4

Note:

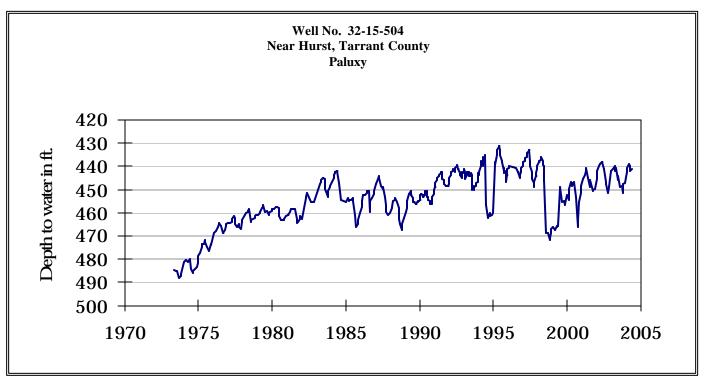
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

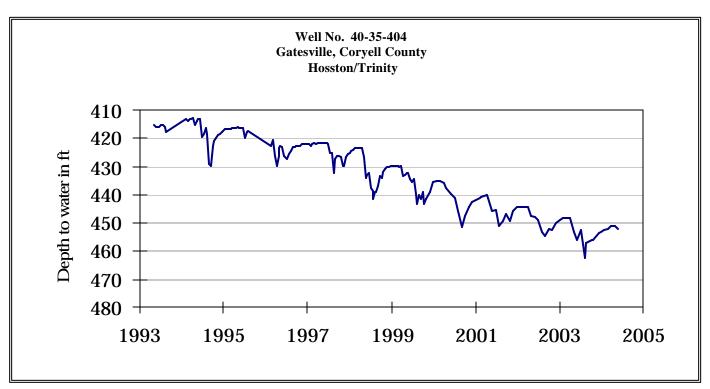
MAY GROUND WATER LEVELS IN OBSERVATION WELLS



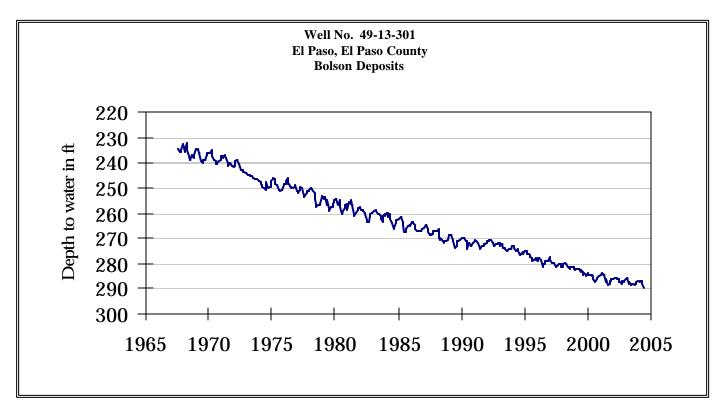
The late May water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 261.90 feet below land surface. This measurement was 0.60 foot below last month's measurement, 2.89 feet below last year's measurement, and 105.90 feet below the initial measurement recorded in 1968.



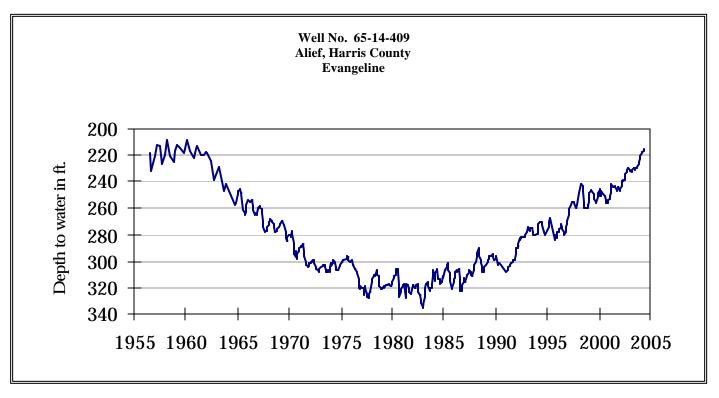
The late May water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 441.43 feet below land surface. This measurement was 0.77 feet above last month's measurement, 4.68 feet above last year's measurement, and 48.04 feet below the initial measurement recorded in 1953.



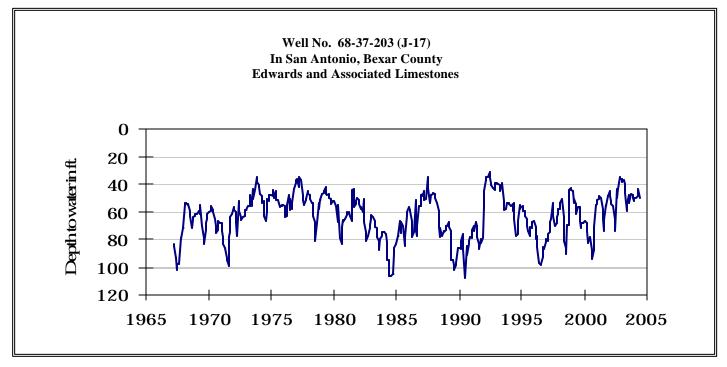
The late May water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 452.10 feet below land surface. This measurement was 0.90 feet below last month's measurement, 4.06 feet below last year's measurement, and 160.10 feet below the initial measurement recorded in 1955.



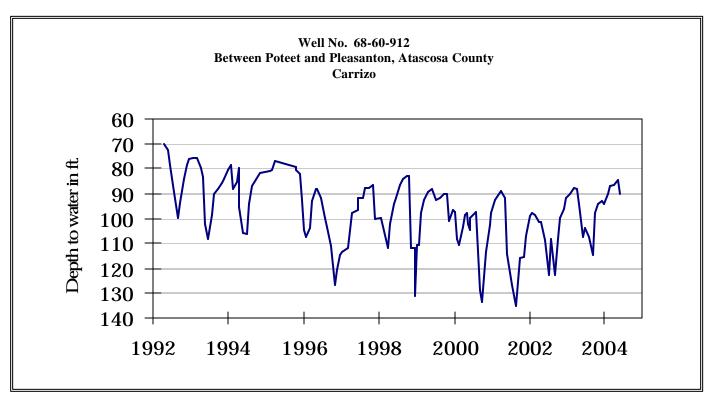
The late May water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 289.68 feet below land surface. This was 1.88 foot below last month's measurement, 1.53 foot below last year's measurement, and 57.78 feet below the initial measurement recorded in 1964.



The late May water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 214.93 feet below land surface. This was 1.07 feet above last month's measurement, 14.69 feet above last year's measurement, and 111.70 feet below the initial measurement recorded in 1947.

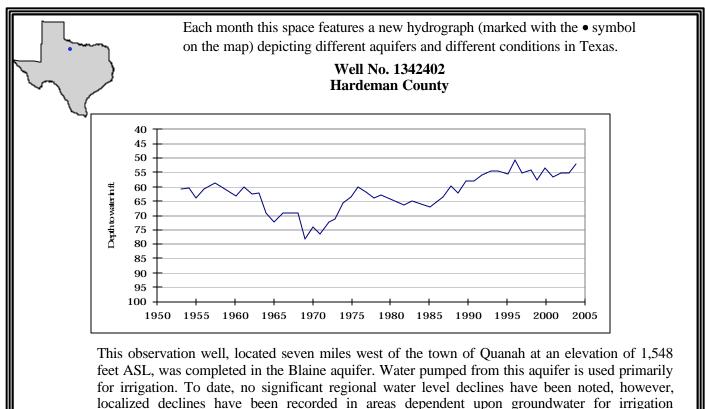


The late May water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 50.21 feet below land surface. This was 7.01 feet below last month's measurement, 9.35 feet above last year's measurement, and 9.41 feet above the initial measurement recorded in 1962.



The late May water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 90.35 feet below land surface. This measurement was 5.46 foot below last month's measurement, 17.21 feet above last year's measurement, and 9.10 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



purposes. Recovery of water levels in this area is usually quick in response to seasonal rainfall.

May 31, 2004

Water levels increased in two key monitoring wells since the beginning of May, ranging from 0.77 feet in the Near Hurst well, Tarrant County (Paluxy Formation Trinity aquifer well) to 1.07 feet in the Alief well, Harris County (Evangeline Formation Gulf Coast aquifer) and decreased in five key monitoring wells, ranging from 0.6 feet in the Southwest Castro County well (Ogallala aquifer) to 5.46 feet in the well between Poteet and Pleasanton, Atascosa County (Carrizo aquifer).

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