Texas Water Development Board





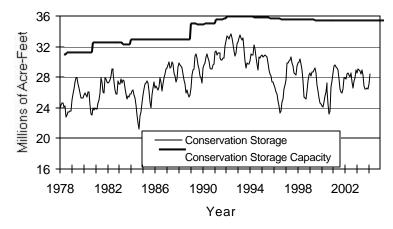
RESERVOIR STORAGE

February 2004

Near the end of February, the 77 reservoirs monitored for this report held 28.43 million acre-feet in conservation storage, or 82.5 percent of the conservation storage capacity of the state's major reservoirs. Statewide total storage is below normal for this time of year. Storage increased during the month by 1.28 million acre-feet (3.7% of conservation storage capacity). Compared to the previous year, storage is less, down 0.69 million acre-feet (-2.0%).

Storage is near capacity in the Upper Coast Region (99.4%), East Region (99.2%) and South Central Region (90%), while the High Plains (23.3%) and Trans-Pecos (18.4%) Regions remained lower than one-third. Storage is at 100% in 20 reservoirs. Compared to this time last year, the Edwards Plateau had the largest increase in storage (+10%), while the Low Rolling Plains Region had the steepest decline (-10.1%).

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.

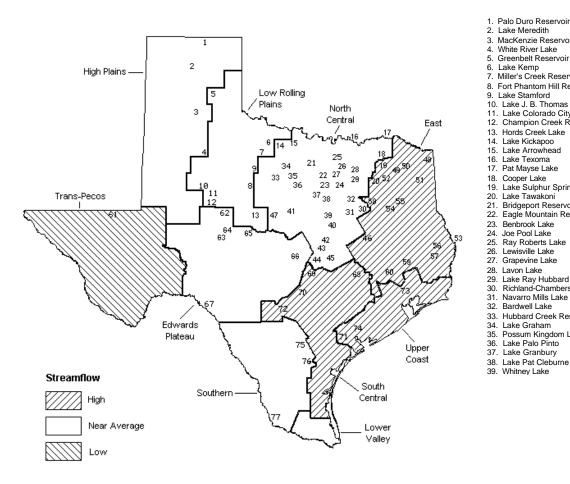
STREAMFLOW

Of 29 reporting index stations in February, computed 31-day mean flows were very high (0-5% exceedance) at 2 stations, high (5% - 30% exceedance) at 10 stations, near normal (30% - 70% exceedance) at 15 stations, and low (70% - 95% exceedance) at 2 stations. In comparison to January, flows increased at 25 index stations, and decreased at 4.

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

FEBRUARY STREAMFLOW CONDITIONS

Reservoirs Shown on Map



2. Lake Meredith 41. Proctor Lake 42. Belton Lake43. Stillhouse Hollow Lake 3. MacKenzie Reservoir White River Lake 44. Lake Georgetown Greenbelt Reservoir 45. Granger Lake 6. Lake Kemp Miller's Creek Reservoir Lake Limestone 8. Fort Phantom Hill Reservoir 47. Lake Brownwood 48. Wright Patman Lake Lake Stamford Lake Cypress Springs 11 Lake Colorado City 50 Lake Bob Sandlin 12. Champion Creek Reservoir 51. Lake O' the Pines 13. Hords Creek Lake 52. Lake Fork Reservoir 14 Lake Kickapoo 53 Toledo Bend Reservoir Lake Arrowhead Lake Palestine 16. Lake Texoma 55 Lake Tyler 17. Pat Mayse Lake 56. Sam Rayburn Reservoir Cooper Lake 57. B. A. Steinhagen Lake 19 Lake Sulphur Springs 58. Cedar Creek Reservoir Lake Tawakoni Lake Livingston Bridgeport Reservoir Eagle Mountain Reservoir 60 Lake Conroe 61. Red Bluff Reservoir Benbrook Lake 62. E. V. Spence Reservoir Joe Pool Lake 63 Twin Buttes Reservoir Ray Roberts Lake 64. O. C. Fisher Lake O. H. Ivie Reservoir Lewisville Lake Grapevine Lake 66. Lake Buchanan Lavon Lake 67. Intl. Amistad Reservoir Lake Ray Hubbard Richland-Chambers Creek Lake 68 Somerville Lake 69. Lake Travis Navarro Mills Lake 70. Canyon Lake Bardwell Lake Coleto Creek Reservoir 33. Hubbard Creek Reservoir 72. Medina Lake Lake Graham 73. Lake Houston Possum Kingdom Lake 74. Lake Texana Lake Palo Pinto 75. Choke Canyon Reservoir 37. Lake Granbury 76. Lake Corpus Christi 38. Lake Pat Cleburne 77. Intl. Falcon Reservoir 39. Whitney Lake

40. Waco Lake

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation		Change since		Change since	
or Reservoir	on	Storage	Storage		Late January		Late February	
	Map	Capacity	Late Feb. 2004		2004		2003	
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
	_	HIGH	I PLAINS					
Palo Duro Reservoir	1	60,900	2,560	4	-130	0	-700	-1
Lake Meredith (Texas)	2	500,000	134,360	27	-1,580	0	-56,580	-11
Lake Meredith	_	,			_,	-	,	
(Texas and Oklahoma)	(2)	779,560	134,360	17	-1,580	0	-56,580	-7
MacKenzie Reservoir	3	46,250	6,250	14	480	1	-1,550	-3
White River Lake	4	31,850	5,490	17	-50	0	-100	0
TOTAL		639,000	148,660	23	-1,280	0	-58,930	-9
Garantalt Bananaia	-		LING PLAINS	40	200	-	560	
Greenbelt Reservoir	5 6	58,200 319,600	24,170	42 55	300 6,470	1 2	560 64 340	1 -20
Lake Kemp Miller's Creek Reservoir	7	-	175,710	43	60	0	-64,240 -2,740	-10
Fort Phantom Hill Reservoir	8	27,890 70,030	12,000 28,810	43 41	630	1	-12,770	-10 -18
Lake Stamford	9	52,700	31,260	59	290	1	-	-14
Lake J. B. Thomas	10	202,300	20,020	10	-640	0	-7,630 60	-14
Lake Colorado City	11	30,800	20,020	65	10	0	3,990	13
Champion Creek Reservoir	12	41,600	3,420	8	60	0	1,190	3
Hords Creek Lake	13	8,600	2,370	28	0	0	-10	0
TOTAL	13	811,720	317,880	39	7,180	1	-81,590	-10
		0==,,=0	021,000		7,200	_	02,000	
		NORTH	I CENTRAL					
Lake Kickapoo	14	106,000	61,340	58	2,340	2	-16,720	-16
Lake Arrowhead	15	262,100	121,280	46	4,140	2	-30,750	-12
Lake Texoma	16	2,722,300	2,121,040	78	-19,880	-1	-185,080	-7
Pat Mayse Lake	17	124,500	111,140	89	6,080	5	-12,790	-10
Cooper Lake	18	273,000	221,810	81	15,280	6	-51,190	-19
Lake Sulphur Springs	19	17,710	17,710	100	2,110	12	0	0
Lake Tawakoni	20	936,200	825,300	88	43,200	5	-96,700	-10
Bridgeport Reservoir	21	374,830	223,000	59	1,200	0	-56,100	-15
Eagle Mountain Reservoir	22	178,380	145,000	81	6,000	3	0	0
Benbrook Lake	23	88,200	87,260	99	6,180	7	-680	-1
Joe Pool Lake	24	175,800	175,800	100	0	0	0	0
Ray Roberts Lake	25	798,760	729,810	91	8,640	1	-68,950	-9
Lewisville Lake	26	555,000	535,700	97	22,210	4	-19,300	-3
Grapevine Lake	27	187,700	155,150	83	6,690	4	-30,880	-16
Lavon Lake	28	443,800	379,870	86 01	30,970	7	-63,930 -39,120	-14
Lake Ray Hubbard Richland-Chambers Creek Lake	29	413,420	374,300	91 100	21,600	5 7	-	-9 0
Navarro Mills Lake	30 31	1,103,820 55,810	1,102,000 55,810	100 100	78,000 390	1	-1,820 0	0
Bardwell Lake	32	53,580		95	2,830	5	-2,570	-5
Hubbard Creek Reservoir	33	317,800	51,010 123,870	39	3,190	1	-24,930	-8
Lake Graham	34	45,000	22,140	49	200	0	-6,910	-15
Possum Kingdom Lake	35	551,820	417,100	76	6,500	1	-55,300	-10
Lake Palo Pinto	36	27,650	17,650	64	4,830	17	-4,420	-16
Lake Granbury	37	135,680	133,800	99	700	1	200	0
Lake Pat Cleburne	38	25,300	22,910	91	2,620	10	-530	-2
Whitney Lake	39	622,800	476,970	77	31,990	5	6,750	1
Waco Lake	40	144,500	144,500	100	0	0	0	0
Proctor Lake	41	55,590	48,810	88	1,530	3	-6,780	-12
Belton Lake	42	434,500	434,500	100	0	0	0	0
Stillhouse Hollow Lake	43	226,060	226,060	100	3,860	2	0	0
Lake Georgetown	44	37,010	22,050	60	250	1	-14,960	-40
Granger Lake	45	54,280	54,280	100	4,950	9	0	0
Lake Limestone	46	215,750	215,750	100	14,300	7	0	0
Lake Brownwood	47	143,400	127,690	89	1,590	1	-4,850	-3
TOTAL		11,908,050	9,982,410	84	314,490	3	-788,310	-7

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation		Change since		Change since		
or Reservoir	on	Storage	Storage		Late January		Late February		
	Map	Capacity	Late Feb. 2004		2004		2003		
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
<u> </u>	·	I I		1		1			
]	EAST						
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0	
Lake Cypress Springs	49	66,800	66,800	100	2,700	4	0	0	
Lake Bob Sandlin	50	202,300	197,300	98	17,200	9	-5,000	-2	
Lake O' the Pines	51	252,000	251,000	100	20,200	8	-1,000	0	
Lake Fork Reservoir	52	635,200	630,700	99	20,800	3	-4,500	-1	
Toledo Bend Reservoir	53	4,472,900	4,472,900	100	500,900	11	0	0	
Lake Palestine	54	411,300	411,300	100	24,350	6	0	0	
Lake Tyler	55	73,700	73,700	100	4,710	6	0	0	
Sam Rayburn Reservoir	56	2,876,300	2,876,300	100	305,920	11	0	0	
B. A. Steinhagen Lake	57	94,200	84,130	89	-2,590	-3	-5,450	-6	
Cedar Creek Reservoir	58	637,050	575,700	90	29,800	5	-61,350	-10	
Lake Livingston	59	1,750,000	1,750,000	100	0	0	0	0	
Lake Conroe	60	429,900	420,100	98	-400	0	5,400	1	
TOTAL		12,044,350	11,952,630	99	923,590	8	-71,900	-1	
			S-PECOS						
Red Bluff Reservoir	61	•	56,390	18	1,470	0	-3,360	-1	
TOTAL		307,000	56,390	18	1,470	0	-3,360	-1	
		EDWARD	S PLATEAU						
E. V. Spence Reservoir	62	488,760	42,660	9	-1,260	0	2,860	1	
Twin Buttes Reservoir	63		4,840	3	330	0	-1,060	-1	
O.C. Fisher Lake	64	119,200	2,890	2	-40	0	-400	0	
O. H. Ivie Reservoir	65	554,340	192,470	35	-550	0	-15,630	-3	
Lake Buchanan	66	896,980	816,440	91	4,230	0	-69,640	-8	
Amistad Reservoir (Texas)	67	1,771,030	1,433,000	81	18,000	1	486,000	27	
Amistad Reservoir									
(Texas and Mexico)	(67)	3,151,300	1,583,000	50	21,000	1	491,000	16	
TOTAL		4,008,110	2,492,300	62	20,710	1	402,130	10	
			CENTRAL			_		_	
Somerville Lake	68	•	155,060	100	0	0	0	0	
Lake Travis	69	1,144,100	988,170	86	6,440	1	-155,930	-14	
Canyon Lake	70	385,600	378,610	98	-1,230	0	-6,990	-2	
Coleto Creek Reservoir	71	35,060	31,900	91	-80	0	240	1	
Medina Lake	72	•	223,500	88	3,600	1	-30,500	-12	
TOTAL		1,973,820	1,777,240	90	8,730	0	-193,180	-10	
UPPER COAST									
Lake Houston	73	128,860	128,860	100	0	0	0	0	
Lake Texana	74		156,250	99	-920	-1	-1,130	-1	
TOTAL		286,760	285,110	99	-920	0	-1,130	0	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

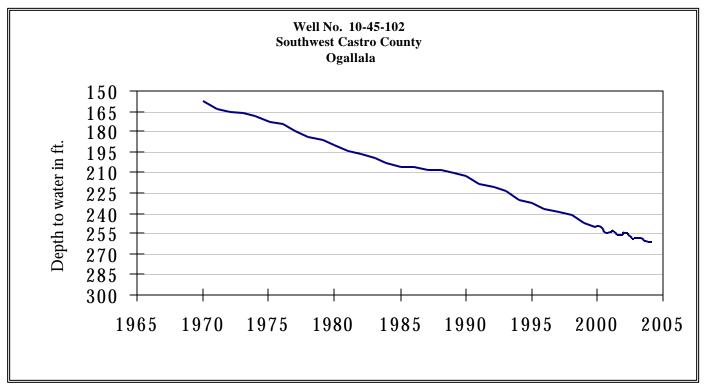
Name of Lake	No.	Conservation	Conservation		Change since		Change since		
or Reservoir	on	Storage	Storage		Late January		Late February		
	Map	Capacity	Late Feb. 2004		2004		2003		
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
SOUTHERN									
Choke Canyon Reservoir	75	695,260	684,000	98	2,000	0	-9,000	-1	
Lake Corpus Christi	76	241,240	240,500	100	1,600	1	-740	0	
Falcon Reservoir (Texas)	77	1,555,120	492,000	32	2,000	0	114,000	7	
Falcon Reservoir									
(Texas and Mexico)	(77)	2,653,290	1,152,000	43	9,000	0	425,000	16	
TOTAL		2,491,620	1,416,500	57	5,600	0	104,260	4	
STATE TOTAL		34,470,430	28,429,120	82	1,279,570	4	-692,010	-2	

Note:

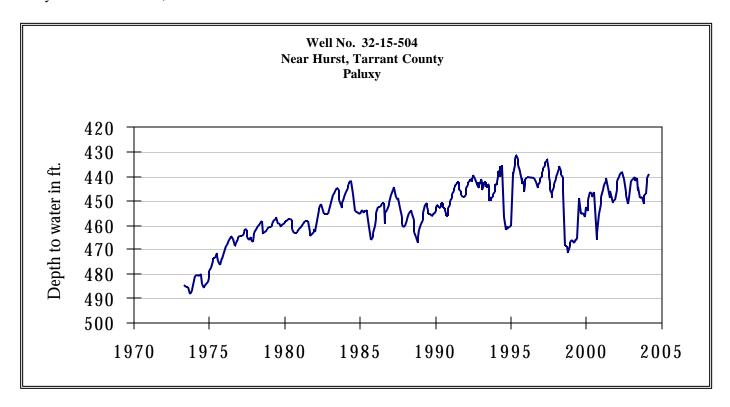
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

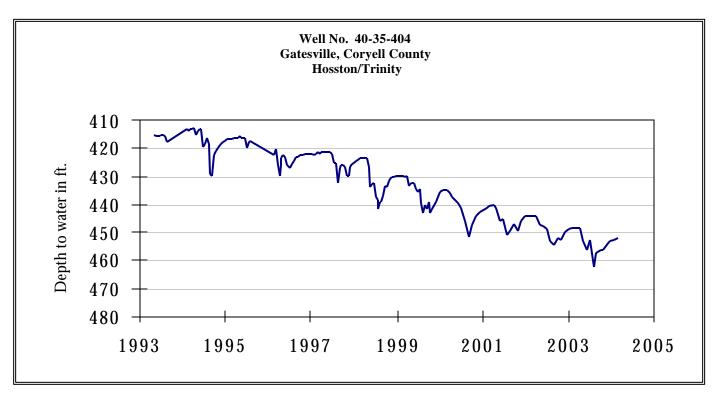
FEBRUARY GROUND WATER LEVELS IN OBSERVATION WELLS



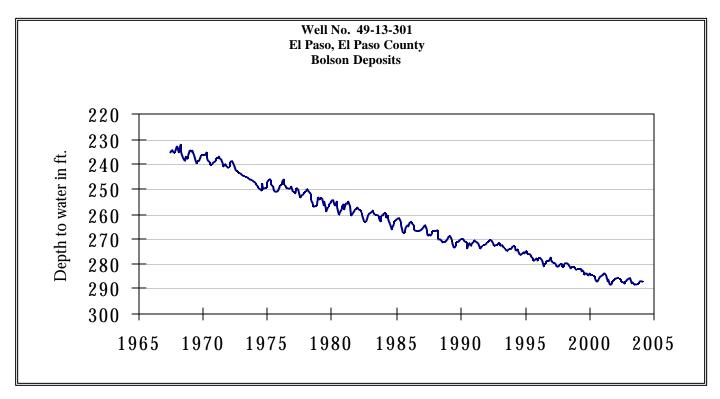
The late February water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 260.97 feet below land surface. This measurement was 0.03 foot above last month's measurement, 3.32 feet below last year's measurement, and 104.97 feet below the initial measurement recorded in 1968.



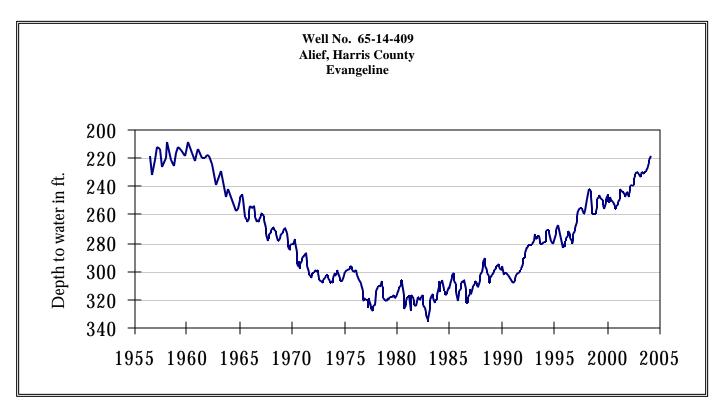
The late February water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 438.75 feet below land surface. This measurement was 1.98 feet above last month's measurement, 1.30 feet above last year's measurement, and 45.36 feet below the initial measurement recorded in 1953.



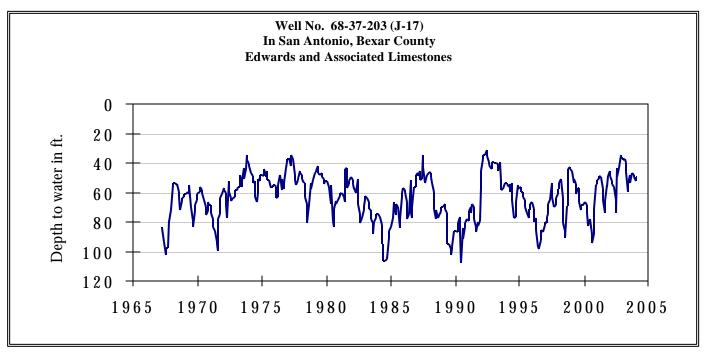
The late February water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 451.85 feet below land surface. This measurement was 0.46 foot above last month's measurement, 3.47 feet below last year's measurement, and 151.85 feet below the initial measurement recorded in 1955.



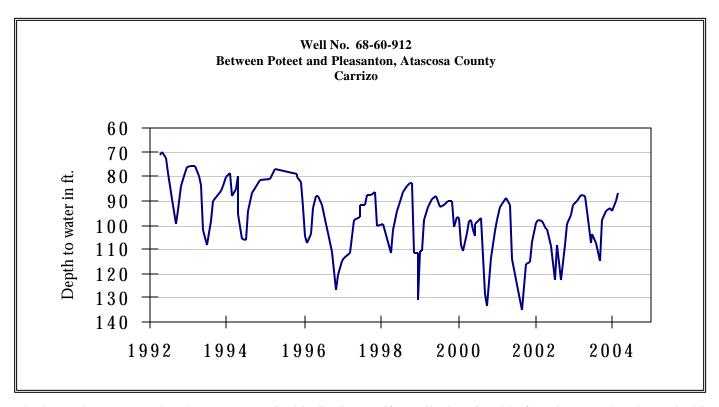
The late February water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 286.79 feet below land surface. This was 0.31 foot above last month's measurement, 0.96 foot below last year's measurement, and 54.89 feet below the initial measurement recorded in 1964.



The late February water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 218.87 feet below land surface. This was 2.39 feet above last month's measurement, 14.36 feet above last year's measurement, and 115.64 feet below the initial measurement recorded in 1947.

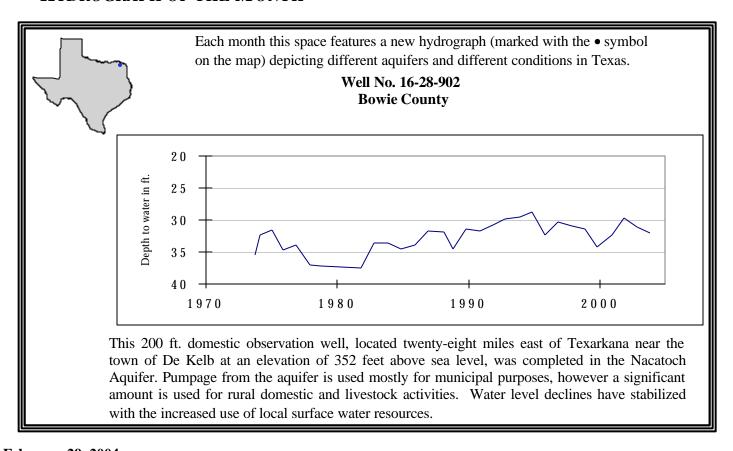


The late February water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 50.02 feet below land surface. This was 0.18 foot above last month's measurement, 12.49 feet below last year's measurement, and 9.60 feet above the initial measurement recorded in 1962.



The late February water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 87.23 feet below land surface. This measurement was 2.89 feet above last month's measurement, 0.60 foot above last year's measurement, and 5.89 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



February 29, 2004

Water levels increased in all seven key monitoring wells since the beginning of February, ranging from 0.03 foot in the Castro County (Ogallala Aquifer) well to 2.89 feet in the Atascosa County (Carrizo Aquifer) well.

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