Texas Water Development Board





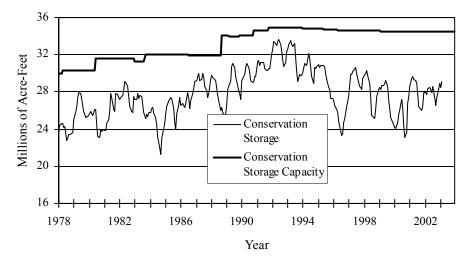
RESERVOIR STORAGE *February 2003*

Near the end of February, the 77 reservoirs monitored for this report held 29.12 million acre-feet in conservation storage, or 84.5 percent of the conservation storage capacity of the State's major reservoirs. Statewide total storage is near median for this time of year. Storage increased for the month, up 0.63 million acre-feet (+1.8%). Compared to last year at this time, storage is up 1.40 million acre-feet (+4.0%).

Storage in the East, South Central and Upper Coast Regions are at 100%. The North Central (90%) Region remains high, while the High Plains (32%), Low Rolling Plains (49%), Edwards Plateau (52%) and Southern (53%) Regions all remained low. The Trans-Pecos Region, represented by Red Bluff Reservoir, remained very low at 19% of capacity.

Most of the gains seen for the State this month were from the 539,000 acre-feet additional water held in Toledo Bend reservoir.

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS



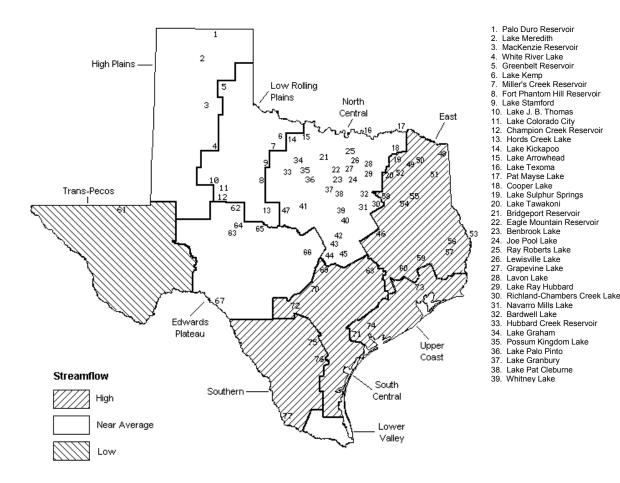
Current data are based on elevation near end of month at 77 reservoirs that represent 98 percent of total conservation storage capacity in Texas reservoirs having a capacity of 5,000 acre-feet or more.

STREAMFLOW

Of 29 reporting index stations in February, computed 30-day mean flows were very high (0% - 5% exceedance) at 2 stations, high (5% - 30% exceedance) at 14 stations, near normal (30% - 70% exceedance) at 10 stations, and low (70% - 95% exceedance) at 3 stations. Compared to January, flows increased at 18 index stations and decreased at 11.

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

FEBRUARY STREAMFLOW CONDITIONS



Reservoirs Shown on Map

- Palo Duro Reservoir 40. Waco Lake Lake Meredith 41 Proctor Lake MacKenzie Reservoir 42. Belton Lake White River Lake 43. Stillhouse Hollow Lake Greenbelt Reservoir 44. Lake Georgetown Lake Kemp 45. Granger Lake Miller's Creek Reservoir 46. Lake Limestone 47. Lake Brownwood Fort Phantom Hill Reservoir Lake Stamford Wright Patman Lake 48. 10. Lake J. B. Thomas 49. Lake Cypress Springs Lake Colorado City 50. Lake Bob Sandlin Champion Creek Reservoir 51 Lake O' the Pines 13. Hords Creek Lake 52. Lake Fork Reservoir Lake Kickapoo 53. Toledo Bend Reservoir Lake Arrowhead 54. Lake Palestine Lake Texoma 55. Lake Tyler Pat Mayse Lake 56. Sam Rayburn Reservoir Cooper Lake 57. B. A. Steinhagen Lake Cedar Creek Reservoir Lake Sulphur Springs 58. Lake Tawakoni 59. Lake Livingston Bridgeport Reservoir 60. Lake Conroe Eagle Mountain Reservoir Red Bluff Reservoir 61. Benbrook Lake E. V. Spence Reservoir Joe Pool Lake Twin Buttes Reservoir 63. Ray Roberts Lake 64 O. C. Fisher Lake 65. O. H. Ivie Reservoir Lewisville Lake Grapevine Lake Lake Buchanan 66. Lavon Lake 67. Intl. Amistad Reservoir Lake Ray Hubbard
 - Somerville Lake 68.
 - 69. Lake Travis
 - 70. Canvon Lake
 - 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	No.	Conservation	Conservation		Change since		Change since		
or Reservoir	voir on Storage Storage Map Capacity Late February 2			Late January		Late February			
			2003	2003		2002			
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
		HIGH	PLAINS						
Palo Duro Reservoir	1	60,900	3,260	5	-110	0	-2,300	-4	
Lake Meredith (Texas)	2	500,000	190,940	38	-2,780	-1	-57,660	-12	
Lake Meredith									
(Texas and Oklahoma)	(2)	779,560		24	-2,780	0	-57,660		
MacKenzie Reservoir	3	46,250	-	17	-120	0	-550	-1	
White River Lake	4	31,850		18	-220	-1	-1,670		
TOTAL		639,000	207,590	32	-3,230	-1	-62,180	-10	
		LOW ROLL	ING PLAINS						
Greenbelt Reservoir	5	58,200	23,610	41	80	0	-720	-1	
Lake Kemp	6	319,600	-	75	0	0	106,050	33	
Miller's Creek Reservoir	7	27,890		53	-240	-1	2,420	9	
Fort Phantom Hill Reservoir	8	70,030		59	-730	-1	11,500	16	
Lake Stamford	9	52,700		74	-560	-1	23,590	45	
Lake J. B. Thomas	10	202,300		10	-510	0	750	0	
Lake Colorado City	11	30,800		52	-270	-1	-2,520	- 8	
Champion Creek Reservoir	12	41,600		5	-30	0	110	0	
Hords Creek Lake	13	8,600	2,380	28	-40	0	-620	-7	
TOTAL		811,720	399,470	49	-2,300	0	140,560	17	
			CENTRAL						
Lake Kickapoo	14	106,000		74	-1,640	-2	8,480	8	
Lake Arrowhead	15	262,100		58	-1,110	0	1,230	0	
Lake Texoma	16	2,722,300		85	-58,560	-2	-81,880	-3	
Pat Mayse Lake	17	124,500			3,400	3	30	0	
Cooper Lake	18	273,000			0	0	0	0	
Lake Sulphur Springs	19	17,710	-		1,490	8	950	5	
Lake Tawakoni	20	936,200		98	40,200	4	31,800	3	
Bridgeport Reservoir	21 22	374,830		74	1,400	0 2	-2,700	-1 1	
Eagle Mountain Reservoir Benbrook Lake	22	178,380		81	3,600 1,990	2	1,600 7,490	8	
Joe Pool Lake	23	88,200			1,990	2 0	7,490	0	
Ray Roberts Lake	24	175,800 798,760	-		0	0	33,860	4	
Lewisville Lake	25	555,000	-		0	0	35,000	- 6	
Grapevine Lake	20	187,700		99	13,260	7	41,130	22	
Lavon Lake	27	443,800	-		20,280	, 5	4,900	1	
Lake Ray Hubbard	29	413,420			320	0	2,020	0	
Richland-Chambers Creek Lake	30	1,103,820			0	0	0	0	
Navarro Mills Lake	31	55,810			0	0	0	0	
Bardwell Lake	32	53,580	-		5,660	11	7,070	13	
Hubbard Creek Reservoir	33	317,800		47	-800	0	33,000	10	
Lake Graham	34	45,000		65	-190	0	-3,890	- 9	
Possum Kingdom Lake	35	551,820		86	-5,900	-1	22,800	4	
Lake Palo Pinto	36	27,650		80	-240	-1	7,600		
Lake Granbury	37	135,680	133,600	98	500	0	5,200	4	
Lake Pat Cleburne	38	25,300	23,440	93	2,590	10	-1,860	-7	
Whitney Lake	39	622,800		76	14,700	2	-17,680	- 3	
Waco Lake	40	144,500	144,500	100	2,540	2	0	0	
Proctor Lake	41	55,590	55,590	100	50	0	20,600	37	
Belton Lake	42	434,500	434,500	100	0	0	0	0	
	43	226,060	226,060	100	0	0	0	0	
Stillhouse Hollow Lake	10								
Stillhouse Hollow Lake Lake Georgetown	44	37,010	37,010	100	0	0	0	0	
		37,010 54,280			0 0	0 0	0 0	0 0	
Lake Georgetown	44		54,280	100					
Lake Georgetown Granger Lake	44 45	54,280	54,280 215,750	100	0	0	0	0	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation		Change since		Change since		
or Reservoir			Storage Storage			Late January		Late February	
	Мар	Capacity	Late February 2003		2003		2002		
	nap	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
		(4626 2666)	(4616 1666)	(07	(4616 1666)	(0)	(4616 1666)	(0)	
		E2	AST						
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	25,850	10	9,100	4	
Lake Fork Reservoir	52	635,200	635,200	100	0	0	0	0	
Toledo Bend Reservoir	53	4,472,900	4,472,900	100	539,900	12	358,900	8	
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	0	0	
B. A. Steinhagen Lake	57	94,200	89,580	95	4,670	5	36,260	38	
Cedar Creek Reservoir	58	637,050	637,050	100	1,450	0	2,050	0	
Lake Livingston	59	1,750,000	1,750,000	100	0	0	19,000	1	
Lake Conroe	60	429,900	414,700	96	-1,100	0	-3,100	-1	
TOTAL		12,044,350	12,024,530	100	570,770	5	422,210	4	
		TRANS	-PECOS						
Red Bluff Reservoir	61	307,000		19	1,610	1	18,950	6	
TOTAL		307,000		19	1,610	1	18,950	6	
		EDWARDS	PLATEAU						
E. V. Spence Reservoir	62	488,760		8	-1,100	0	-16,750	- 3	
Twin Buttes Reservoir	63	177,800	-	3	560	0	-2,590	-1	
O.C. Fisher Lake	64	119,200		3	-20	0	-990	-1	
0. H. Ivie Reservoir	65	554,340		38	-1,800	0	-42,600	- 8	
Lake Buchanan	66	896,980		99	2,210	0	109,180	12	
Amistad Reservoir (Texas)	67	1,771,030		53	20,000	1	95,000	5	
Amistad Reservoir									
(Texas and Mexico)	(67)	3,151,300	1,092,000	35	26,000	1	102,000	3	
TOTAL		4,008,110	2,090,170	52	19,850	0	141,250	4	
		SOIITH	CENTRAL						
Somerville Lake	68	155,060		100	0	0	0	0	
Lake Travis	69	1,144,100	-		0	o	0	0	
Canyon Lake	70	385,600			0	0	5,900	2	
Coleto Creek Reservoir	70				-320	-1	300	1	
Medina Lake	71	254,000			-520	0	2,200	1	
TOTAL	, 2	1,973,820			-320	0	8,400	0	
		הפתחוז	COAGT						
Take Heuster			COAST	100	^	^	•	^	
Lake Houston	73	128,860			0	0	0	0	
Lake Texana	74	157,900			-520	0	10,580	7	
TOTAL		286,760	286,240	T00	-520	0	10,580	4	

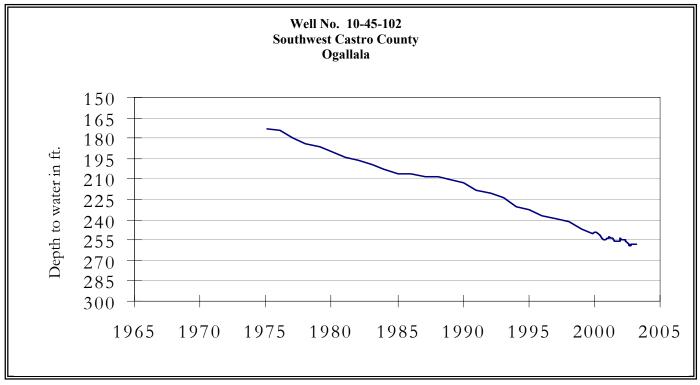
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late February 3 (acre-feet)	2003	Change since Late January 2003 (acre-feet)	,	Change sinc Late Februa 2002 (acre-feet)	ry
		SOUT	THERN					
Choke Canyon Reservoir	75	695,260	693,000	100	-2,260	0	420,000	60
Lake Corpus Christi	76	241,240	241,240	100	0	0	6,540	3
Falcon Reservoir (Texas) Falcon Reservoir	77	1,555,120	378,000	24	-1,000	0	102,000	7
(Texas and Mexico)	(77)	2,653,290	727,000	27	12,000	0	346,000	13
TOTAL		2,491,620	1,312,240	53	-3,260	0	528,540	21
STATE TOTAL		34,470,430	29,121,130	84	627,790	2	1,390,950	4

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Note:

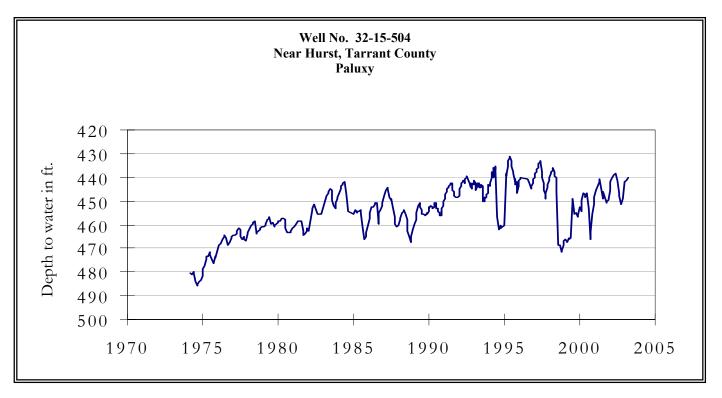
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included is any water in flood control storage (above the top of conservation pool or normal maximum operating level), or any water in flood 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). Figures in parentheses for Lake Meredith represent the total conservation storage excluding 58,014 acre-feet of dead storage and are not included in State total. Preliminary figures are shown for the United States' share of conservation storage in International Amistad and International Falcon Reservoirs; the estimates may be subject to revision on completion of international water accounting. Texas (United States' share) and Mexico and are not included in State total.

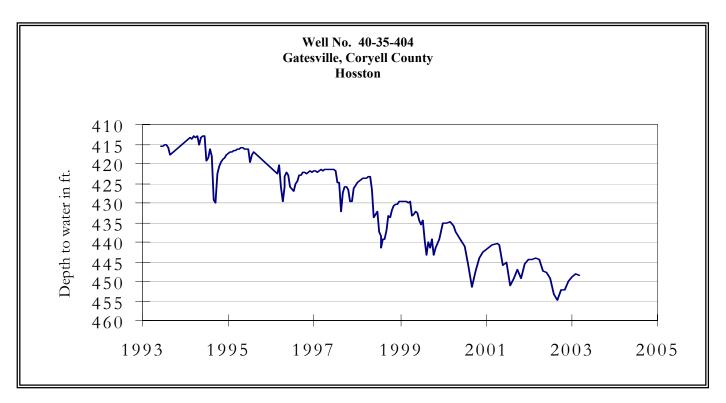


FEBRUARY GROUND WATER LEVELS IN OBSERVATION WELLS

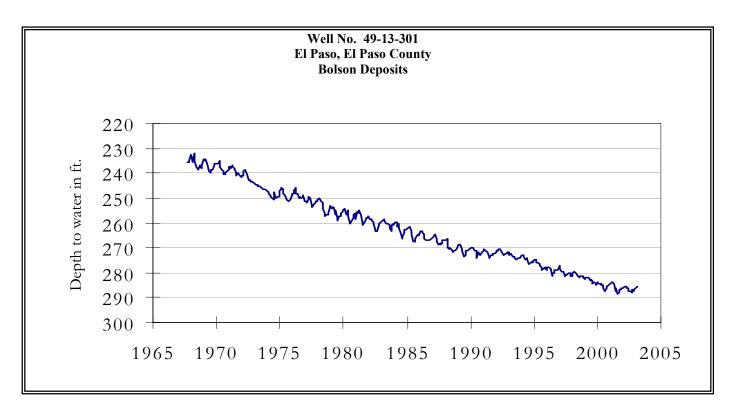
The late February water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 257.65 feet below land surface. This measurement was 0.61 feet above December's measurement, 2.71 feet below last year's measurement, and 101.65 feet below the initial measurement recorded in 1968.



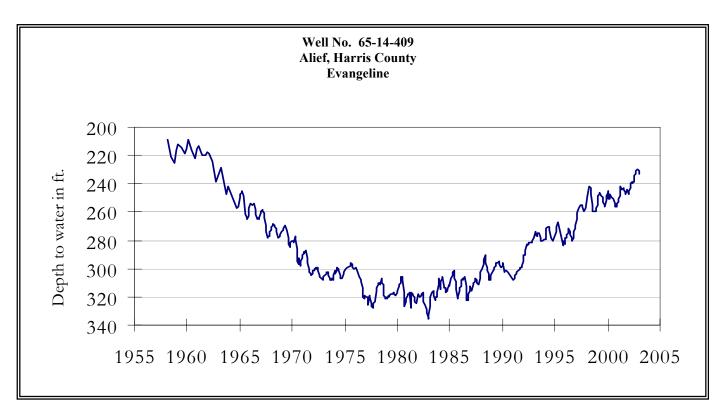
The late February water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 440.05 feet below land surface. This measurement was 1.17 feet above last month's measurement, 0.39 feet above last year's measurement, and 46.66 feet below the initial measurement recorded in 1953.



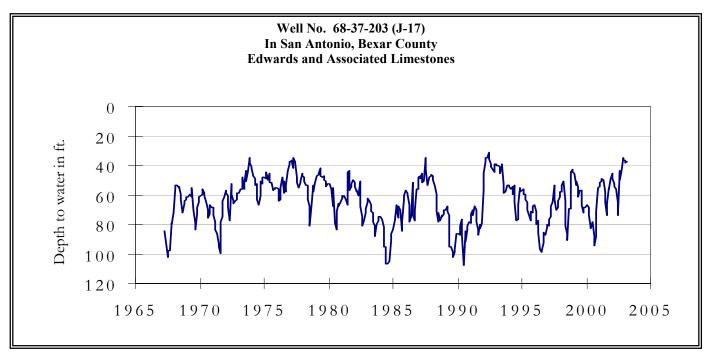
The late February water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 448.38 feet below land surface. This measurement was 0.16 feet below last month's measurement, 4.38 feet below last year's measurement, and 156.38 feet below the initial measurement recorded in 1955.



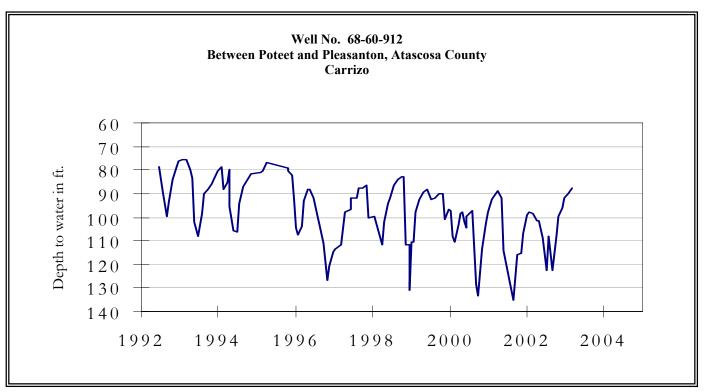
The late February water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 285.83 feet below land surface. This was 0.32 feet below last month's measurement, 0.51 feet below last year's measurement, and 53.93 feet below the initial measurement recorded in 1964.



The late February water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 233.23 feet below land surface. This was 1.12 feet below last month's measurement, 9.65 feet above last year's measurement, and 130.00 feet below the initial measurement recorded in 1947.

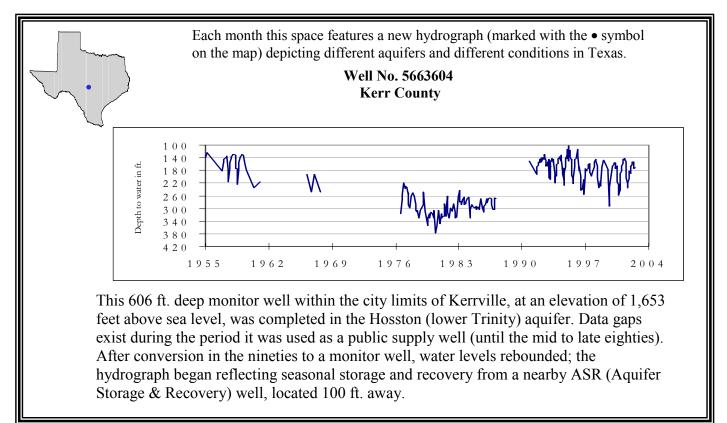


The late February water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 37.53 feet below land surface. This was 0.25 feet above last month's measurement, 14.93 feet above last year's measurement, and 22.09 feet above the initial measurement recorded in 1962.



The late February water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 87.84 feet below land surface. This measurement was 2.38 feet above last month's measurement, 10.51 feet above last year's measurement, and 6.59 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



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