Texas Water Development Board





RESERVOIR STORAGE

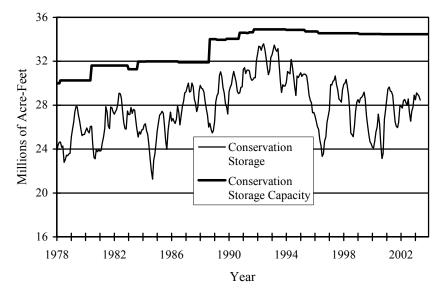
May 2003

Near the end of May, the 77 reservoirs monitored for this report held 28.46 million acre-feet in conservation storage, or 82.6 percent of the conservation storage capacity of the State's major reservoirs. Statewide total storage is below median for this time of year. Storage decreased for the month, down 0.37 million acre-feet (-1.1%). Compared to last year at this time, storage is up 0.21 million acre-feet (+0.6%).

Storage in the East and South Central Regions are both at 97%. The North Central (91%) and Upper Coast (92%) Regions are still in good shape, while the High Plains (29%), Low Rolling Plains (45%), Edwards Plateau (48%) and Southern (49%) Regions all remained low. The Trans-Pecos Region does not appear to have benefited from recent rains, remaining very low at 19% of capacity, the same as last month. Storage is at 100% in 20 reservoirs this month, 9 less than last month.

Choke Canyon Reservoir (99%) and Lake Corpus Christi (93%) are both near capacity.

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.

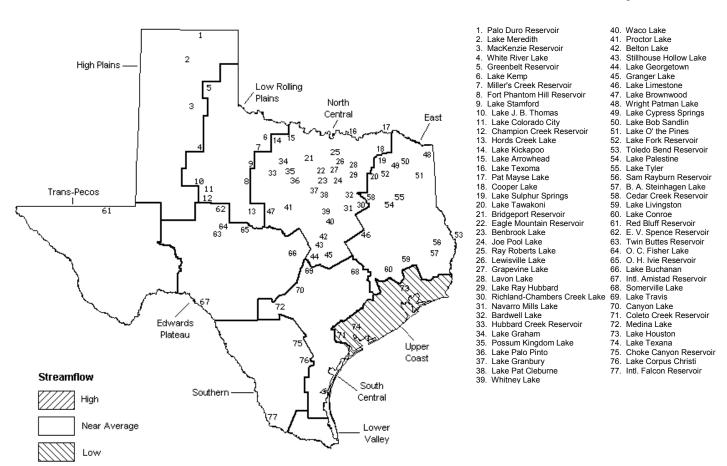
STREAMFLOW

Of 29 reporting index stations in May, computed 30-day mean flows were high (5% - 30% exceedance) at 2 stations, near normal (30% - 70% exceedance) at 21 stations, low (70% - 95% exceedance) at 5 stations and very low (95% - 100% exceedance) at 1 station (the Canadian River near Amarillo). Compared to April, flows decreased at 22 index stations and increased at 7.

On a regional basis, flows in May were normal everywhere except in the Upper Coast Region, where flows were low.

MAY STREAMFLOW CONDITIONS

Reservoirs Shown on Map



CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation	Change ginge	Change gings	
or Reservoir	on	Storage	Storage	Change since Late April	Change since Late May	
OI REBELVOII	Map	1	Late May 2003	2003	Late May 2002	
	мар		(acre-feet) (%)		(acre-feet) (%)	
		HIGH P	l .	(4010 1000) (8)	(acre reet) (8)	
Palo Duro Reservoir	1			340 1	-1,520 -2	
Lake Meredith (Texas)	2		•	-8,660 -2	-1,320 -2 -57,070 -11	
Lake Meredith	2	300,000	100,000 54	-0,000 -2	-57,070-11	
(Texas and Oklahoma)	(2)	779,560	169,930 22	-8,660 -1	-57,070 -7	
MacKenzie Reservoir	3			-250 -1	-520 -1	
White River Lake	4			-450 -1	-2,090 -7	
TOTAL		639,000		-9,020 -1	-61,200 -10	
		LOW ROLLI	NG PLAINS			
Greenbelt Reservoir	5	58,200	22,750 39	-540 -1	-1,090 -2	
Lake Kemp	6	319,600	220,340 69	-6,100 -2	50,340 16	
Miller's Creek Reservoir	7	27,890	13,350 48	-610 -2	-2,100 -8	
Fort Phantom Hill Reservoir	8	70,030	35,560 51	-1,690 -2	5,420 8	
Lake Stamford	9	52,700	34,840 66	-1,600 -3	-2,360 -4	
Lake J. B. Thomas	10	202,300	18,070 9	-290 0	-2,220 -1	
Lake Colorado City	11	30,800	14,430 47	-720 -2	-3,440 -11	
Champion Creek Reservoir	12	41,600	1,990 5	-80 0	-910 -2	
Hords Creek Lake	13	8,600	2,140 25	-80 -1	-560 -7	
TOTAL		811,720	363,470 45	-11,710 -1	43,080 5	
		NORTH C				
Lake Kickapoo	14			3,770 4	-13,520 -13	
Lake Arrowhead	15			1,960 1	-17,910 -7	
Lake Texoma	16	• • • • • • • • • • • • • • • • • • • •		119,780 4 480 0	-135,930 -5	
Pat Mayse Lake Cooper Lake	17 18	•		0 0	-3,350 -3 0 0	
Lake Sulphur Springs	19			0 0	0 0	
Lake Tawakoni	20	•		-3,100 0	-10,000 -1	
Bridgeport Reservoir	21			-7,200 -2	-41,900 -11	
Eagle Mountain Reservoir	22	-	-	1,600 1	-35,900 -20	
Benbrook Lake	23		·	-1,300 -1	-3,440 -4	
Joe Pool Lake	24			0 0	0 0	
Ray Roberts Lake	25			3,230 0	-3,010 0	
- Lewisville Lake	26	555,000	555,000 100	0 0	0 0	
Grapevine Lake	27	187,700	185,810 99	3,310 2	-1,890 -1	
Lavon Lake	28	443,800	441,820 100	-1,980 0	-1,980 0	
Lake Ray Hubbard	29	413,420	405,900 98	1,000 0	-6,100 -1	
Richland-Chambers Creek Lake	30	1,103,820	1,103,820 100	0 0	0 0	
Navarro Mills Lake	31	55,810	55,170 99	-640 -1	-640 -1	
Bardwell Lake	32	53,580	49,520 92	1,230 2	1,630 3	
Hubbard Creek Reservoir	33	317,800	138,100 43	-3,300 -1	9,300 3	
Lake Graham	34	45,000	26,660 59	-690 -2	-8,370 -19	
Possum Kingdom Lake	35			-11,900 -2	-63,600 -12	
Lake Palo Pinto	36			-1,190 -4	-5,050 -18	
Lake Granbury	37			-100 0	200 0	
Lake Pat Cleburne	38			-340 -1	-340 -1	
Whitney Lake	39			-13,900 -2	-146,360 -24	
Waco Lake	40			-60 0	-60 0	
Proctor Lake	41			-1,690 -3 -1,270 0	4,710 8	
Belton Lake Stillhouse Hollow Lake	42 43			-1,270 0 0 0	1,730 0 0 0	
Lake Georgetown	44			-1,120 -3	2,810 8	
Granger Lake	45	-		-1,120 -3	0 0	
Lake Limestone	46			-3,650 -2	-3,650 -2	
Lake Brownwood	47			-3,030 -2	14,950 10	
TOTAL		11,908,050		79,900 1	-467,670 -4	
		•	-	•	-	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation	Change since	Change since			
or Reservoir	on	Storage	Storage	Late April	Late May			
or Repervoir	Map	1	Late May 2003	2003	2002			
	laap		(acre-feet) (%)					
		(4010 1000)	(2010 1000) (0)	(4010 1000) (0)	(4020 2000) (0)			
EAST								
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	237,100 94	8,860 4	-14,900 -6			
Lake Fork Reservoir	52	635,200	627,400 99	-7,800 -1	-7,800 -1			
Toledo Bend Reservoir	53	4,472,900	4,212,000 94	-89,000 -2	-260,900 -6			
Lake Palestine	54	411,300	411,300 100	2,010 0	800 0			
Lake Tyler	55	73,700	73,700 100	0 0	0 0			
Sam Rayburn Reservoir	56	2,876,300	2,848,120 99	-28,180 -1	37,120 1			
B. A. Steinhagen Lake	57	94,200	90,230 96	-3,970 -4	27,800 30			
Cedar Creek Reservoir	58	637,050	634,700 100	2,800 0	-1,900 0			
Lake Livingston	59	1,750,000	1,724,000 99	-11,000 -1	-26,000 -1			
Lake Conroe	60	429,900	406,700 95	-5,000 -1	3,700 1			
TOTAL		12,044,350	11,677,050 97	-131,280 -1	-242,080 -2			
		TRANS-						
Red Bluff Reservoir	61			-100 0				
TOTAL		307,000	58,640 19	-100 0	18,430 6			
		EDWARDS	PLATEAU					
E. V. Spence Reservoir	62	488,760	31,700 6	-2,430 0	-23,930 -5			
Twin Buttes Reservoir	63	177,800	6,000 3	-170 0	-600 0			
O.C. Fisher Lake	64	119,200	2,340 2	-460 0	-900 -1			
O. H. Ivie Reservoir	65	554,340	188,300 34	-8,300 -1	-46,400 -8			
Lake Buchanan	66	896,980	853,030 95	-17,530 -2	54,530 6			
Amistad Reservoir (Texas)	67	1,771,030	848,000 48	-167,000 -9	195,000 11			
Amistad Reservoir								
(Texas and Mexico)	(67)	3,151,300	966,000 31	-127,000 -4	142,000 5			
TOTAL		4,008,110	1,929,370 48	-195,890 -5	177,700 4			
		SOUTH C	ENTRAL					
Somerville Lake	68			-230 0	3,130 2			
Lake Travis	69			-49,700 -4				
Canyon Lake	70			0 0				
Coleto Creek Reservoir	71							
Medina Lake	72							
TOTAL		1,973,820						
		110000	CONCE					
Take Wands		UPPER						
Lake Houston	73			0 0				
Lake Texana	74			-9,810 -6				
TOTAL		286,760	262,760 92	-9,810 -3	-7,100 -2			

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

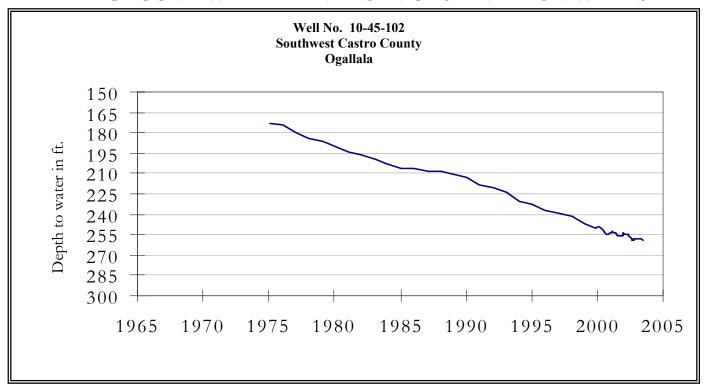
Name of Lake	No.	Conservation	Conservation		Change ginge		Change gings		
	140.		Conservation		Change since		Change since		
or Reservoir	on	Storage	Storage		Late April		Late May		
	Map	Capacity	Late May 2003		2003		2002		
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
SOUTHERN									
Choke Canyon Reservoir	75	695,260	685,000	99	-8,000	-1	434,000	62	
Lake Corpus Christi	76	241,240	223,960	93	-12,850	-5	26,760	11	
Falcon Reservoir (Texas)	77	1,555,120	305,000	20	-11,000	-1	123,000	8	
Falcon Reservoir									
(Texas and Mexico)	(77)	2,653,290	341,000	13	-128,000	-5	78,000	3	
TOTAL		2,491,620	1,213,960	49	-31,850	-1	583,760	23	
STATE TOTAL		34,470,430	28,461,920	83	-369,130	-1	206,770	1	

Note:

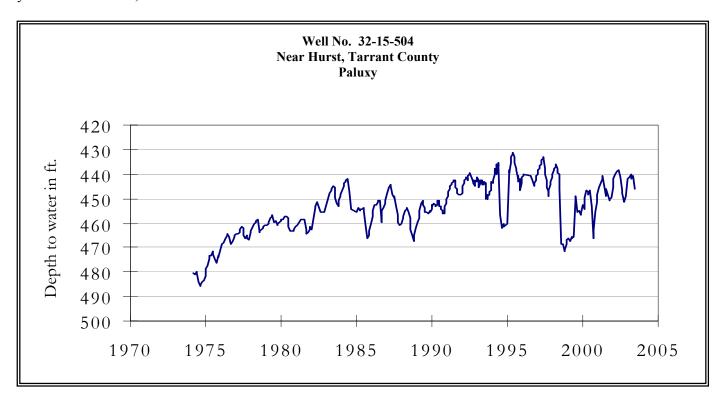
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

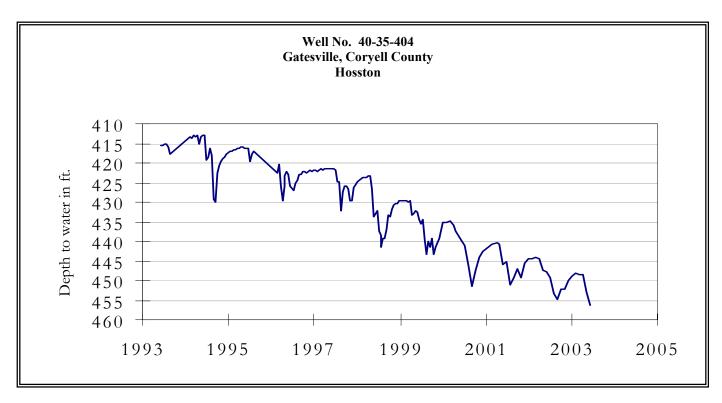
MAY GROUND WATER LEVELS IN OBSERVATION WELLS



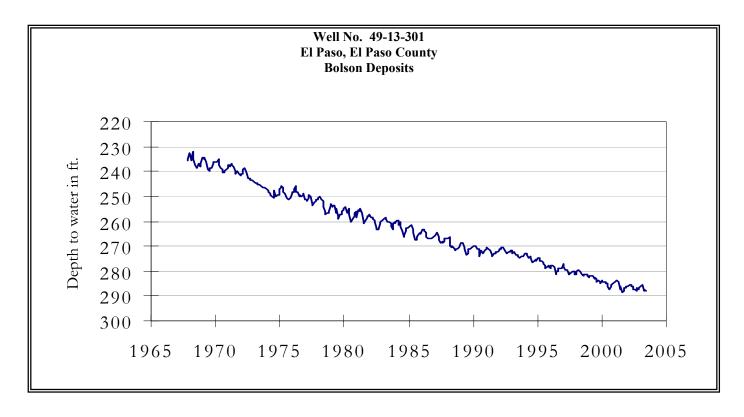
The late May water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 259.01 feet below land surface. This measurement was 0.38 feet below last month's measurement, 3.14 feet below last year's measurement, and 103.01 feet below the initial measurement recorded in 1968.



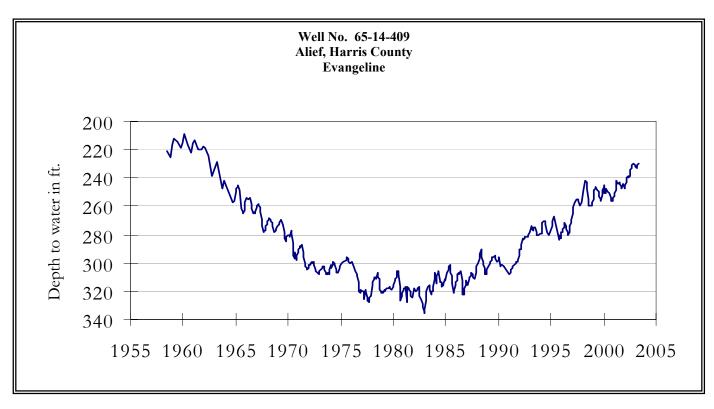
The late May water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 446.11 feet below land surface. This measurement was 5.36 feet below last month's measurement, 7.93 feet below last year's measurement, and 52.72 feet below the initial measurement recorded in 1953.



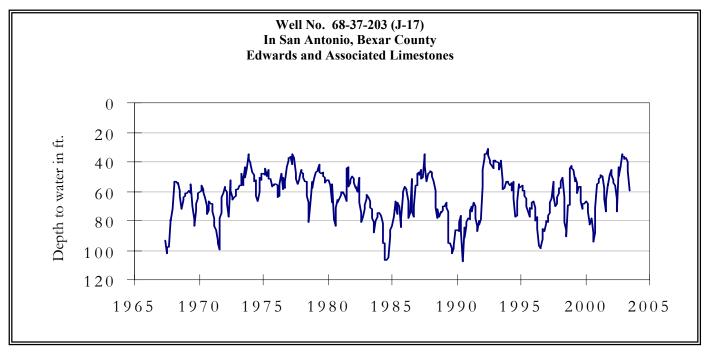
The late May water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 456.16 feet below land surface. This measurement was 3.38 feet below last month's measurement, 8.37 feet below last year's measurement, and 164.16 feet below the initial measurement recorded in 1955.



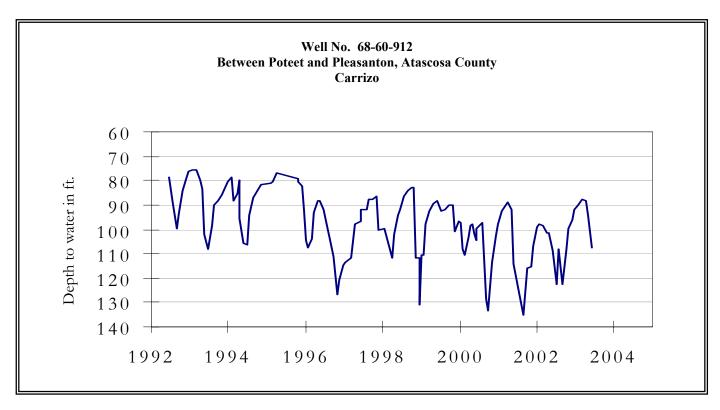
The late May water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 288.15 feet below land surface. This was 0.70 feet below last month's measurement, 1.99 feet below last year's measurement, and 56.25 feet below the initial measurement recorded in 1964.



The late May water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 229.62 feet below land surface. This was 0.03 feet below last month's measurement, 9.58 feet above last year's measurement, and 126.39 feet below the initial measurement recorded in 1947.

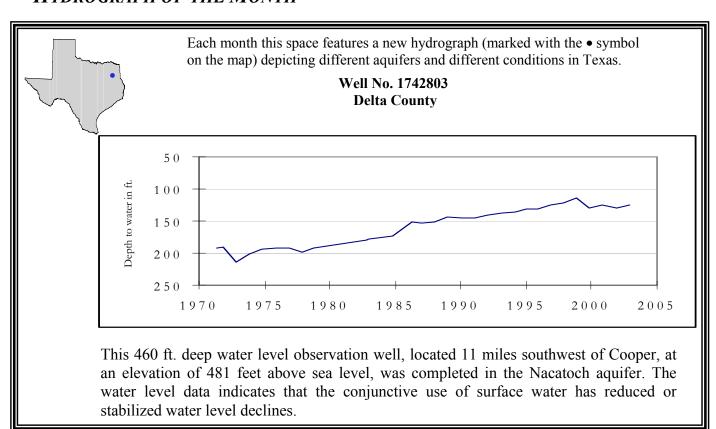


The late May water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 59.56 feet below land surface. This was 12.98 feet below last month's measurement, 5.54 feet above last year's measurement, and 0.06 feet above the initial measurement recorded in 1962.



The late May water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 107.56 feet below land surface. This measurement was 13.23 feet below last month's measurement, 1.21 feet above last year's measurement, and 26.31 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