Texas Water Development Board





RESERVOIR STORAGE

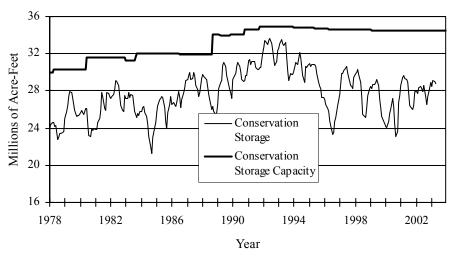
April 2003

Near the end of April, the 77 reservoirs monitored for this report held 28.83 million acre-feet in conservation storage, or 83.6 percent of the conservation storage capacity of the State's major reservoirs. Statewide total storage is slightly below median for this time of year. Storage decreased for the month, down 0.15 million acre-feet (-0.4%). Compared to last year at this time, storage is up 0.31 million acre-feet (+0.9%).

Storage in the South Central Region is at 100%. The North Central (91%), East (98%) and Upper Coast (95%) Regions remain high, while the High Plains (30%), Low Rolling Plains (46%), Edwards Plateau (53%) and Southern (50%) Regions all remained low. The Trans-Pecos Region, represented by Red Bluff Reservoir, remained very low at 19% of capacity, the same as last month. Storage is at 100% in 29 reservoirs this month.

E.V. Spence, Twin Buttes and O.C. Fisher remain very low this month, below 10% of 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.

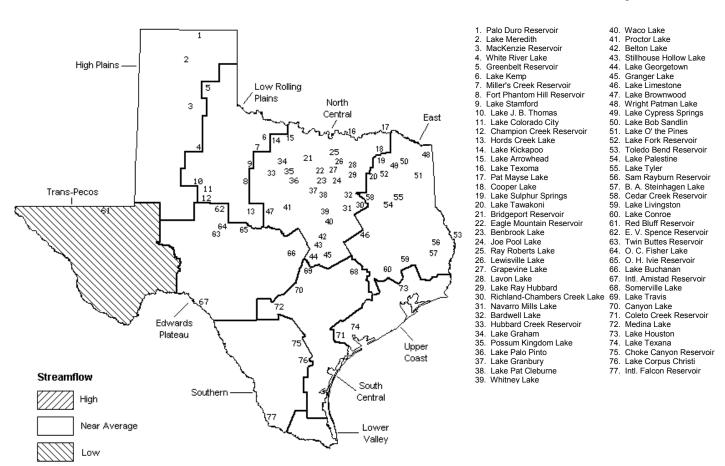
STREAMFLOW

Of 29 reporting index stations in April, computed 30-day mean flows were high (5% - 30% exceedance) at 4 stations, near normal (30% - 70% exceedance) at 19 stations, and low (70% - 95% exceedance) at 6 stations. Compared to March, flows decreased at 22 index stations and increased at 7.

On a regional basis, flows in April were normal everywhere except in the Trans-Pecos Region, which remained low.

APRIL STREAMFLOW CONDITIONS

Reservoirs Shown on Map



CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation	Change since	Chango gingo	
or Reservoir	on			Late March	Change since	
OI RESELVOII	Map	Storage Capacity	Storage Late April 2003	2003	Late April 2002	
	мар	(acre-feet)		(acre-feet) (%)	2002 (acre-feet) (%)	
L	1	HIGH P	1	(acre reec) (a)	(dele leet) (%)	
Palo Duro Reservoir	1			-240 0	-2,020 -3	
Lake Meredith (Texas)	2			-8,090 -2	-2,020 -3 -58,410 -12	
Lake Meredith (lexas)	2	300,000	170,550 30	-6,030 -2	-30,410 -12	
(Texas and Oklahoma)	(2)	779,560	178,590 23	-8,090 -1	-58,410 -7	
MacKenzie Reservoir	3	-		-230 0	-670 -1	
White River Lake	4			-150 0	-2,050 -6	
TOTAL	_	639,000		-8,710 -1		
		LOW ROLLI	NG PLAINS			
Greenbelt Reservoir	5	58,200	23,290 40	-270 0	-1,160 -2	
Lake Kemp	6	319,600	226,440 71	-11,060 -3	66,440 21	
Miller's Creek Reservoir	7	27,890	13,960 50	-660 -2	400 1	
Fort Phantom Hill Reservoir	8	70,030	37,250 53	-2,840 -4	6,860 10	
Lake Stamford	9	52,700	36,440 69	-1,510 -3	-1,030 -2	
Lake J. B. Thomas	10	202,300	18,360 9	-910 0	-2,480 -1	
Lake Colorado City	11	30,800	15,150 49	-610 -2	-3,150 -10	
Champion Creek Reservoir	12	41,600	2,070 5	-100 0	-30 0	
Hords Creek Lake	13	8,600	2,220 26	-100 -1	-650 -8	
TOTAL		811,720	375,180 46	-18,060 -2	65,200 8	
Taba Washanaa	1.4	NORTH C		2 120 2	11 020 11	
Lake Kickapoo Lake Arrowhead	14			-3,130 -3 -5,080 -2	-11,230 -11	
Lake Texoma	15 16	-		•	-17,870 -7	
Pat Mayse Lake	17			28,100 1 -3,640 -3	-224,710 -8 -5,730 -5	
Cooper Lake	18	-		-3,040 -3	0 0	
Lake Sulphur Springs	19			0 0	0 0	
Lake Tawakoni	20	-		-4,600 0	-16,900 -2	
Bridgeport Reservoir	21			-2,000 -1	-27,500 -7	
Eagle Mountain Reservoir	22	-		-5,400 -3	-36,800 -21	
Benbrook Lake	23	-		-3,820 -4	-2,700 -3	
Joe Pool Lake	24			0 0	0 0	
Ray Roberts Lake	25	798,760	792,520 99	-6,240 -1	-6,240 -1	
Lewisville Lake	26	555,000	555,000 100	0 0	0 0	
Grapevine Lake	27	187,700	182,500 97	-1,110 -1	-5,200 -3	
Lavon Lake	28	443,800	443,800 100	0 0	0 0	
Lake Ray Hubbard	29	413,420	404,900 98	-5,600 -1	-7,800 -2	
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	0 0	
Bardwell Lake	32			580 1	260 0	
Hubbard Creek Reservoir	33			-4,900 -2	14,400 5	
Lake Graham	34			-1,040 -2	-6,790 -15	
Possum Kingdom Lake	35			-11,600 -2	-36,400 -7	
Lake Palo Pinto	36			-1,350 -5	-3,790 -14	
Lake Granbury	37			300 0	1,200 1	
Lake Pat Cleburne	38			600 2	0 0	
Whitney Lake	39 40			-1,310 0	-129,360 -21	
Waco Lake Proctor Lake	40 41			0 0	0 0	
Belton Lake	41			0 0	17,600 32 0 0	
Stillhouse Hollow Lake	43			0 0	0 0	
Lake Georgetown	44			0 0	320 1	
Granger Lake	45			0 0	0 0	
Lake Limestone	46			0 0	0 0	
Lake Brownwood	47			-940 -1	24,180 17	
TOTAL		11,908,050		-32,180 0	-481,060 -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 March	Late April	
32 3322 332	Map	_	Late April 2003	2003	2002	
		(acre-feet)	=	(acre-feet) (%)		
		•	1		1	
		EAS	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	228,240 91	1,130 0	-23,760 -9	
Lake Fork Reservoir	52	635,200	635,200 100	0 0	0 0	
Toledo Bend Reservoir	53	4,472,900	4,301,000 96	-43,000 -1	-118,000 -3	
Lake Palestine	54	411,300	409,290 100	-2,010 0	-2,010 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	94,200 100	13,500 14	39,950 42	
Cedar Creek Reservoir	58	637,050	631,900 99	-5,150 -1	-4,000 -1	
Lake Livingston	59	1,750,000	1,735,000 99	0 0	5,000 0	
Lake Conroe	60	429,900	411,700 96	-1,600 0	-600 0	
TOTAL		12,044,350	11,808,330 98	-37,130 0	-103,420 -1	
		TRANS-				
Red Bluff Reservoir	61	307,000	58,740 19	-1,640 -1	16,960 6	
TOTAL		307,000	58,740 19	-1,640 -1	16,960 6	
		EDWARDS	PLATEAU			
E. V. Spence Reservoir	62	488,760	34,130 7	-3,140 -1	-18,410 -4	
Twin Buttes Reservoir	63	177,800	6,170 3	-310 0	-2,560 -1	
O.C. Fisher Lake	64	119,200	2,800 2	-330 0	-1,120 -1	
O. H. Ivie Reservoir	65	554,340	196,600 35	-7,900 -1	-44,100 -8	
Lake Buchanan	66	896,980	870,560 97	-24,490 -3	69,760 8	
Amistad Reservoir (Texas)	67	1,771,030	1,015,000 57	50,000 3	183,000 10	
Amistad Reservoir						
(Texas and Mexico)	(67)	3,151,300	1,093,000 35	-25,000 -1	112,000 4	
TOTAL		4,008,110	2,125,260 53	13,830	186,570 5	
		SOUTH C	ENTRAL			
Somerville Lake	68			0 0	0 0	
Lake Travis	69			0 0		
Canyon Lake	70			0 0		
Coleto Creek Reservoir	71			-190 -1		
Medina Lake	72			-400 0		
TOTAL		1,973,820		-590		
	- -	UPPER		<u>.</u> -		
Lake Houston	73			0 0		
Lake Texana	74			-11,330 -7		
TOTAL		286,760	272,570 95	-11,330 -4	29,640 10	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

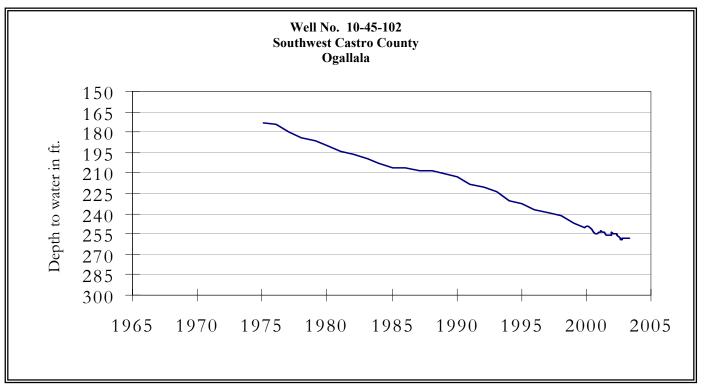
Name of Lake	No.	Conservation	Conservation	n	Change sind	e	Change sinc	:e	
or Reservoir	on	Storage	Storage		Late March	rch Late			
	Map	Capacity	Late April 20	03	2003		2002		
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
SOUTHERN									
Choke Canyon Reservoir	75	695,260	693,000	100	-2,260	0	430,000	62	
Lake Corpus Christi	76	241,240	236,810	98	-4,430	-2	19,410	8	
Falcon Reservoir (Texas)	77	1,555,120	316,000	20	-52,000	-3	147,000	9	
Falcon Reservoir									
(Texas and Mexico)	(77)	2,653,290	469,000	18	-261,000	-10	204,000	8	
TOTAL		2,491,620	1,245,810	50	-58,690	-2	596,410	24	
STATE TOTAL		34,470,430	28,831,050	84	-154,500	0	306,140	1	

Note:

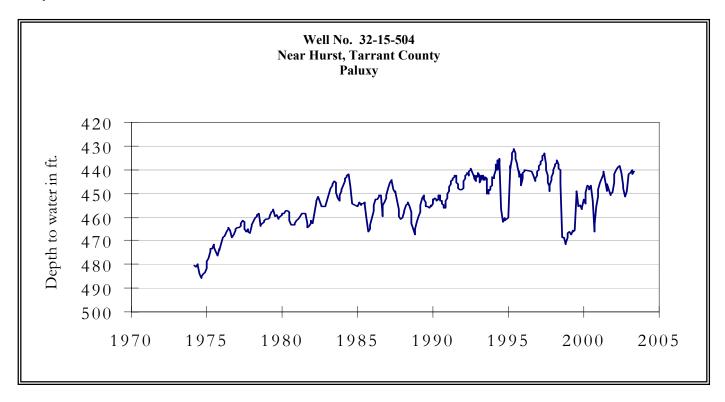
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

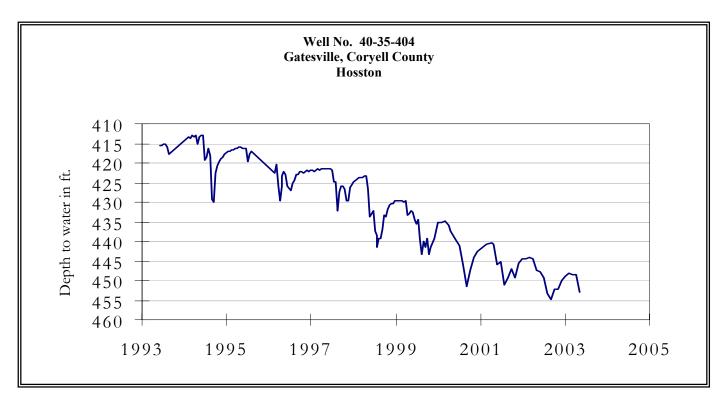
APRIL GROUND WATER LEVELS IN OBSERVATION WELLS



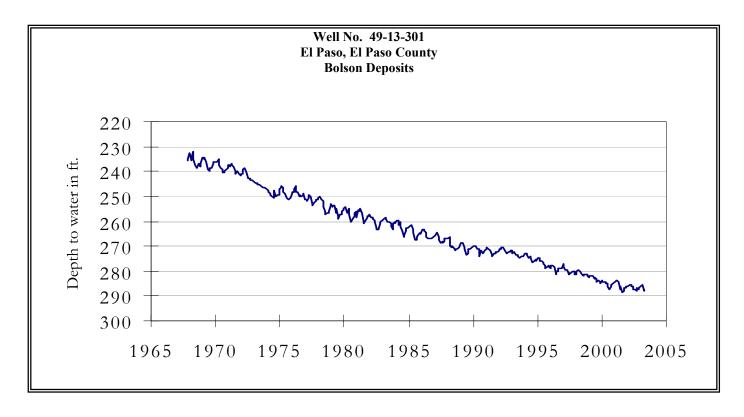
The late April water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 258.63 feet below land surface. This measurement was 0.31 feet below last month's measurement, 3.31 feet below last year's measurement, and 102.63 feet below the initial measurement recorded in 1968.



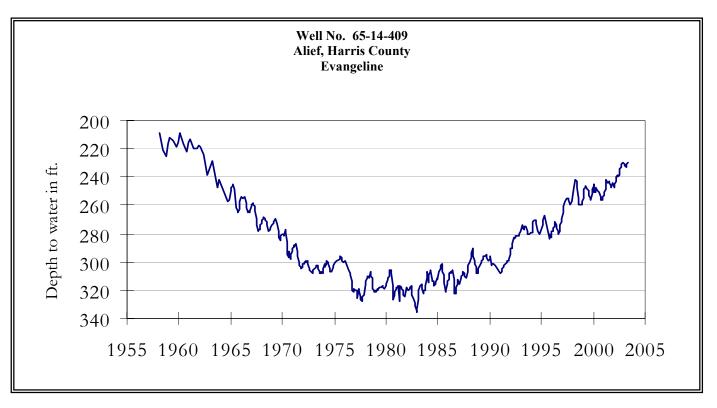
The late April water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 440.75 feet below land surface. This measurement was 1.46 feet above last month's measurement, 2.33 feet below last year's measurement, and 47.36 feet below the initial measurement recorded in 1953.



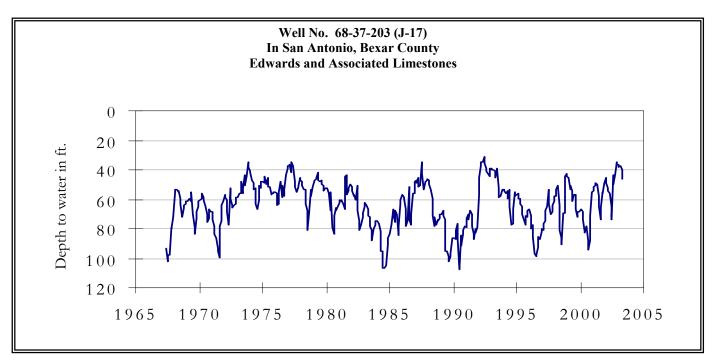
The late April water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 452.78 feet below land surface. This measurement was 4.24 feet below last month's measurement, 5.29 feet below last year's measurement, and 160.78 feet below the initial measurement recorded in 1955.



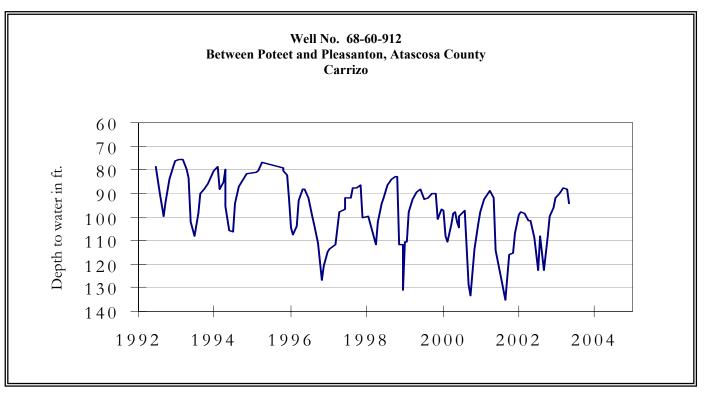
The late April water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 287.45 feet below land surface. This was 0.30 feet above last month's measurement, 1.35 feet below last year's measurement, and 55.55 feet below the initial measurement recorded in 1964.



The late April water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 229.59 feet below land surface. This was 1.22 feet above last month's measurement, 9.35 feet above last year's measurement, and 126.36 feet below the initial measurement recorded in 1947.

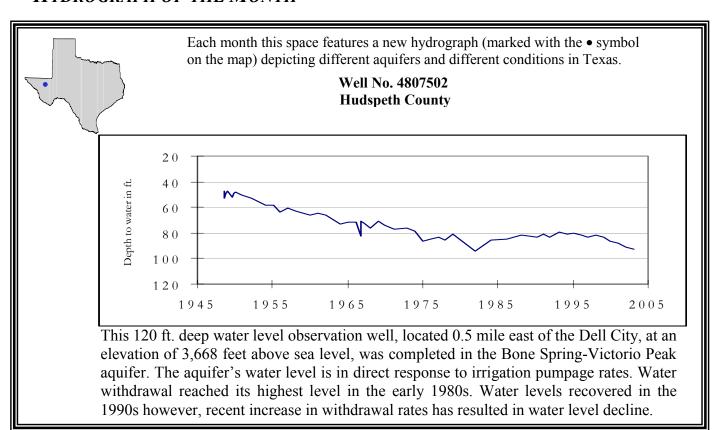


The late April water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 46.58 feet below land surface. This was 6.79 feet below last month's measurement, 9.63 feet above last year's measurement, and 13.04 feet above the initial measurement recorded in 1962.



The late April water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 94.33 feet below land surface. This measurement was 6.22 feet below last month's measurement, 7.31 feet above last year's measurement, and 13.08 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