Texas Water Development Board





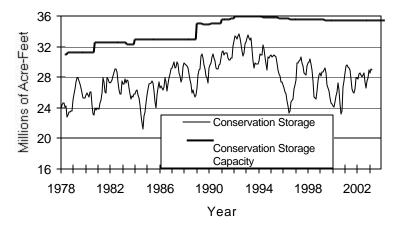
RESERVOIR STORAGE

March 2003

Near the end of March, the 77 reservoirs monitored for this report held 28.99 million acre-feet in conservation storage, or 84.1 percent of the conservation storage capacity of the State's major reservoirs. Statewide total storage is slightly below normal for this time of year. Storage decreased slightly during the month by 0.14 million acre-feet (-0.4% of conservation storage capacity). Compared to the previous year, storage is up 0.57 million acre-feet (+1.7%).

Storage in the East (98%), South Central (100%) and Upper Coast (99%) is at or near capacity, while the High Plains (32%), Low Rolling Plains (48%), Trans-Pecos (20%), Southern (52%) and Edwards Plateau (53%) Regions remain low. Storage in North Central Texas is high at 91%. Storage is at 100% in 31 reservoirs, down 7 from last month. Compared to this time last year, Southern Texas had the largest increase in storage (+24%), while the High Plains had the steepest decline (-9%).

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.

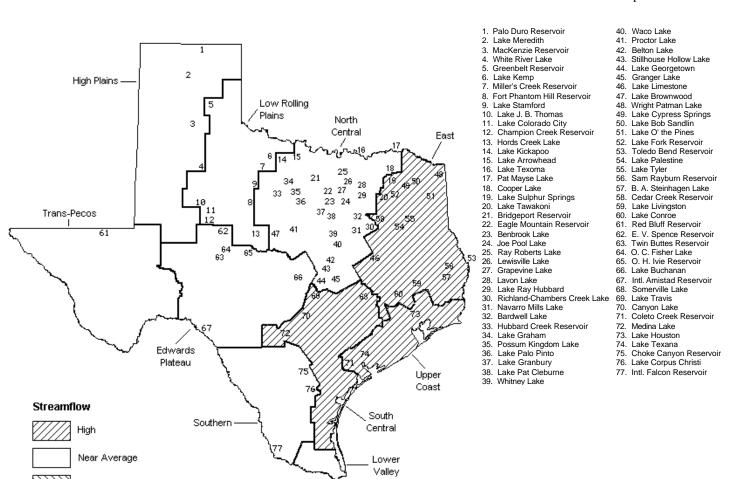
STREAMFLOW

Of 29 reporting index stations in March, computed 30-day mean flows were high (5% - 30% exceedance) at 13 stations, near normal (30% - 70% exceedance) at 15 stations, and low (70% - 95% exceedance) at 1 station. In comparison to February, flows increased at 8 index stations and decreased at 21.

On a regional basis, flows in March high in the East Texas, South Central, and Upper Coast Regions and near normal everywhere else.

MARCH STREAMFLOW CONDITIONS

Reservoirs Shown on Map



CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

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Name of Lake	No.	Conservation	Conservation Storage Late March 2003		Change since Late February 2003		Change since Late March 2002	
or Reservoir	on Map	Storage Capacity						
	мар	(acre-feet)	ļ	(%)		(%)	(acre-feet)	(%)
			H PLAINS	(%)	(acre-reec)	(%)	(acre-reec)	(*)
Palo Duro Reservoir	1	_	3,110	5	-150	0	-2,130	-3
Lake Meredith (Texas)	2			37	-4,260	-1	-53,820	-11
Lake Meredith		300,000	100,000	37	-4,200	-1	-33,020	-11
(Texas and Oklahoma)	(2)	779,560	186,680	24	-4,260	-1	-53,820	-7
MacKenzie Reservoir	3			17	-140	0	-550	-1
White River Lake	4		-	17	-310	-1	-1,690	-5
TOTAL		639,000	202,730	32	-4,860	-1	-58,190	-9
Garantalt Baranasia	_		LING PLAINS		50	^	600	
Greenbelt Reservoir	5 6	•	23,560	40 74	-50	0 -1	-600 96,500	-1 30
Lake Kemp Miller's Creek Reservoir	7	•		52	-2,450 -120	-1	1,700	30 6
Fort Phantom Hill Reservoir	8	•	-	52	-1,490	-2	8,830	13
Lake Stamford	9			72	-940	-2	4,800	9
Lake J. B. Thomas	10		-	10	-690	0	-1,630	-1
Lake Colorado City	11	•		51	-370	-1	-2,840	-9
Champion Creek Reservoir	12	•	•	5	-60	0	30	0
Hords Creek Lake	13	•	2,320	27	-60	-1	-650	-8
TOTAL		811,720		48	-6,230	-1	106,140	13
			H CENTRAL					
Lake Kickapoo	14	•	-	72	-2,260	-2	4,500	4
Lake Arrowhead	15	•	-	57	-2,120	-1	10	0
Lake Texoma	16			88	78,070	3	•	-5
Pat Mayse Lake	17	•		98	-1,520	-1	-2,090	-2
Cooper Lake	18		-	100	0	0	0	0
Lake Sulphur Springs	19	•		100	0	0	600	3 -5
Lake Tawakoni Bridgeport Reservoir	20 21	•	-	95 74	-29,100 -300	-3 0	-43,300 -14,600	-5 -4
Eagle Mountain Reservoir	22	•		82	1,000	1	-21,500	-12
Benbrook Lake	23		-	99	-680	-1	-21,300	-12
Joe Pool Lake	24			100	0	0	0	0
Ray Roberts Lake	25		-	100	0	0	0	0
Lewisville Lake	26	•	-	100	0	0	0	0
Grapevine Lake	27	-		98	-2,420	-1	-4,090	-2
Lavon Lake	28	443,800	443,800	100	0	0	0	0
Lake Ray Hubbard	29	413,420	410,500	99	-2,920	-1	-2,920	-1
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	53,580	47,710	89	-5,870	-11	-5,510	-10
Hubbard Creek Reservoir	33	317,800	146,300	46	-2,500	-1	26,100	8
Lake Graham	34		28,390	63	-660	-1	-4,590	-10
Possum Kingdom Lake	35	-		84	-7,200	-1	-	2
Lake Palo Pinto	36	-		78	-540	-2		-10
Lake Granbury	37			98	-300	0	1,900	1
Lake Pat Cleburne	38	-		98	1,260	5	-600	-2
Whitney Lake	39		-	79	21,430	3	-117,350	-19
Waco Lake	40			100	0	0	16 990	0
Proctor Lake	41	_		100	0	0	16,880	30
Belton Lake	42	-		100	0	0	0	0
Stillhouse Hollow Lake	43 44	-		100	0	0	0	0
Lake Georgetown Granger Lake	44			100 100	0	0	0	0
Lake Limestone	46			100	0	0	0	0
Lake Brownwood	47			92	-620	0	23,720	17
TOTAL	-,	11,908,050		91	42,750	0	-269,890	-2

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation		Change since		Change since			
or Reservoir	on	Storage	Storage		Late February		Late March			
	Map	Capacity	Late March 2003		2003		2002			
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)		
EAST										
Wright Patman Lake	48	•	142,700	100	0	0	0	0		
Lake Cypress Springs	49	-	66,800	100	0	0	0	0		
Lake Bob Sandlin	50	•		100	0	0	0	0		
Lake O' the Pines	51	•		90	-24,890		-24,890	-10		
Lake Fork Reservoir	52			100	0	0	0	0		
Toledo Bend Reservoir	53			97	-128,900	-3	26,000	1		
Lake Palestine	54	-		100	0	0	0	0		
Lake Tyler	55	-		100	0	0	0	0		
Sam Rayburn Reservoir	56			100	0	0	0	0		
B. A. Steinhagen Lake	57	•	80,700	86	-8,880	-9	25,250	27		
Cedar Creek Reservoir	58	-		100	0	0	0	0		
Lake Livingston	59			99	-15,000	-1	-15,000	-1		
Lake Conroe	60	•		96	-1,400	0	-4,300	-1		
TOTAL		12,044,350	11,845,460	98	-179,070	-1	7,060	0		
		TRAI	NS-PECOS							
Red Bluff Reservoir	61	307,000	60,380	20	630	0	18,850	6		
TOTAL		307,000	60,380	20	630	0	18,850	6		
		EDWARI	OS PLATEAU							
E. V. Spence Reservoir	62		37,270	8	-2,530	-1	-17,380	-4		
Twin Buttes Reservoir	63	-		4	580	0	-2,420	-1		
O.C. Fisher Lake	64	•		3	-160	0	-1,010	-1		
O. H. Ivie Reservoir	65	•		37	-3,600	-1	-43,000	-8		
Lake Buchanan	66	•		100	8,970	1	103,250	12		
Amistad Reservoir (Texas)	67	-		54	18,000	1	116,000	7		
Amistad Reservoir	0,	1,,,1,000	303,000	5.	20,000	_	110,000	,		
(Texas and Mexico)	(67)	3,151,300	1,118,000	35	26,000	1	127,000	4		
TOTAL		4,008,110	2,111,430	53	21,260	1	155,440	4		
		GOTTE	T CENTED AT							
Company 11 o Tab			H CENTRAL	100	_	_	_	^		
Somerville Lake	68	•		100	0	0	0	0		
Lake Travis	69			100	0	0	100	0		
Canyon Lake	70		•	100	0	0	4,400	1		
Coleto Creek Reservoir	71			90	20	0	890	3		
Medina Lake	72	-		100	0	0	6,400	3		
TOTAL		1,973,820	1,970,440	100	20	0	11,790	1		
UPPER COAST										
Lake Houston	73	128,860	128,860	100	0	0	0	0		
Lake Texana	74	157,900	155,040	98	-2,340	-1	15,240	10		
TOTAL		286,760	283,900	99	-2,340	-1	15,240	5		

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

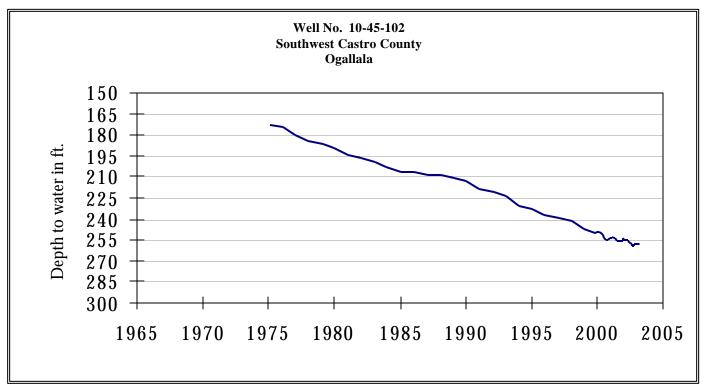
Name of Lake	No.	Conservation	Conservation		Change since		Change since			
or Reservoir	on	Storage	Storage		Late February		Late March			
	Map	Capacity	Late March 2003		2003		2002			
	ĺ	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)		
SOUTHERN										
Choke Canyon Reservoir	75	695,260	695,260	100	2,260	0	429,260	62		
Lake Corpus Christi	76	241,240	241,240	100	0	0	15,440	6		
Falcon Reservoir (Texas)	77	1,555,120	368,000	24	-10,000	-1	143,000	9		
Falcon Reservoir										
(Texas and Mexico)	(77)	2,653,290	730,000	28	3,000	0	404,000	15		
TOTAL		2,491,620	1,304,500	52	-7,740	0	587,700	24		
STATE TOTAL		34,470,430	28,985,550	84	-135,580	0	574,140	2		

Note:

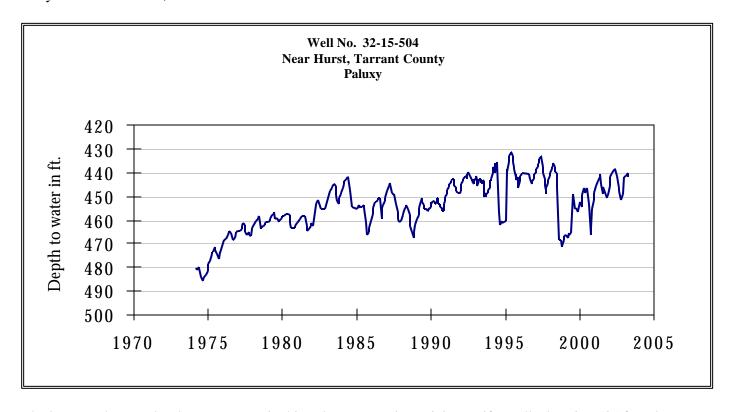
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

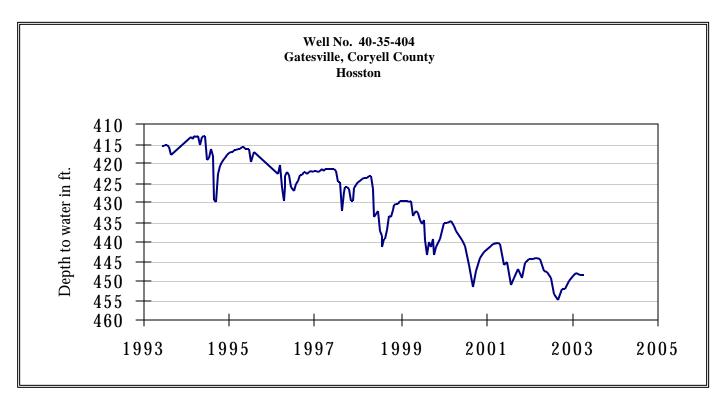
MARCH GROUND WATER LEVELS IN OBSERVATION WELLS



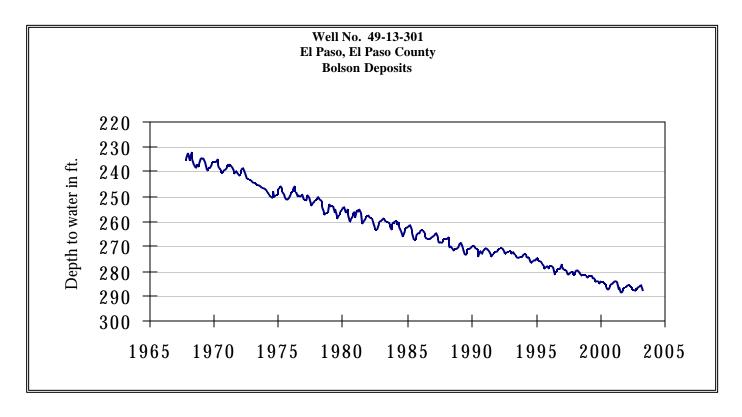
The late March water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 258.32 feet below land surface. This measurement was 0.67 feet below last month's measurement, 3.40 feet below last year's measurement, and 102.32 feet below the initial measurement recorded in 1968.



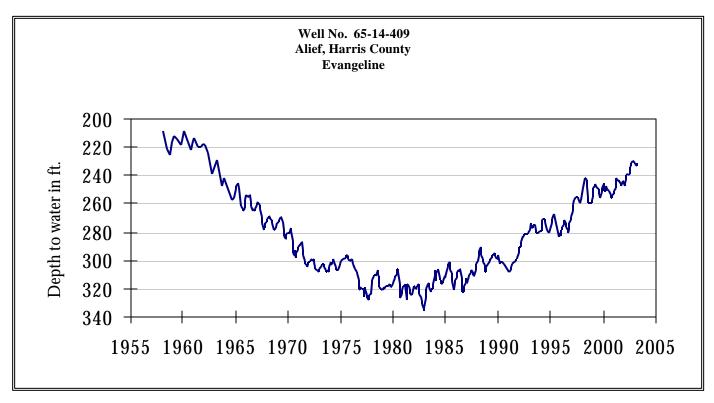
The late March water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 442.21 feet below land surface. This measurement was 2.16 feet below last month's measurement, 3.00 feet below last year's measurement, and 48.82 feet below the initial measurement recorded in 1953.



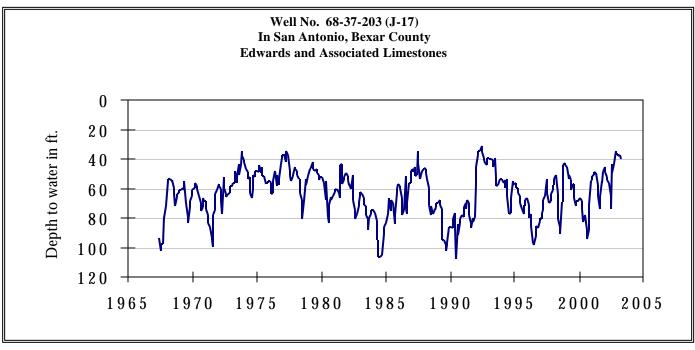
The late March water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 448.54 feet below land surface. This measurement was 0.16 feet below last month's measurement, 4.09 feet below last year's measurement, and 156.54 feet below the initial measurement recorded in 1955.



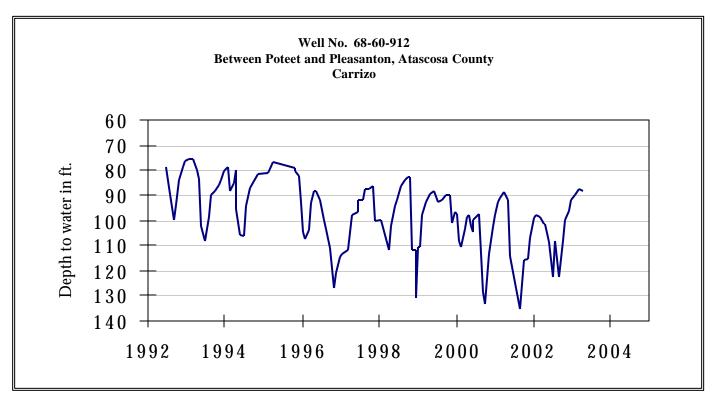
The late March water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 287.75 feet below land surface. This was 1.92 feet below last month's measurement, 2.37 feet below last year's measurement, and 55.85 feet below the initial measurement recorded in 1964.



The late March water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 230.81 feet below land surface. This was 2.42 feet above last month's measurement, 9.15 feet above last year's measurement, and 127.58 feet below the initial measurement recorded in 1947.

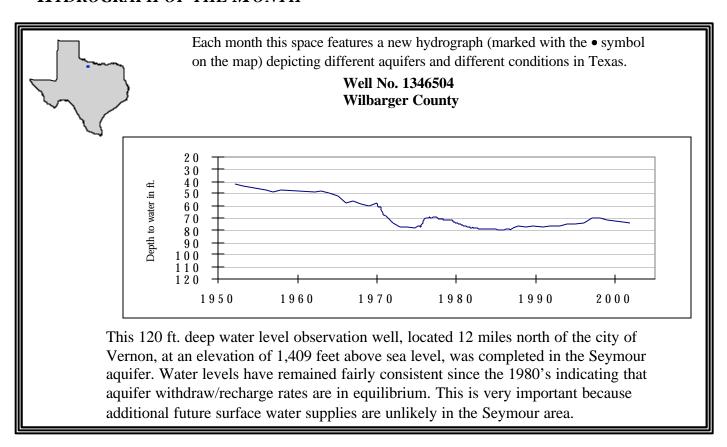


The late March water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 39.79 feet below land surface. This was 2.25 feet below last month's measurement, 14.57 feet above last year's measurement, and 19.83 feet above the initial measurement recorded in 1962.



The late March water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 88.11 feet below land surface. This measurement was 0.27 feet below last month's measurement, 13.66 feet above last year's measurement, and 6.86 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