Texas Water Development Board





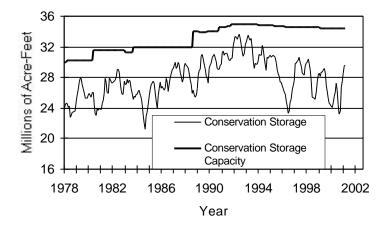
RESERVOIR STORAGE

March 2001

Near the end of March, the 77 reservoirs monitored for this report held 29.7 million acre-feet in conservation storage, or 86.0 percent of the conservation storage capacity of the State's major reservoirs. Statewide total storage remains just below normal for this time of year. Storage increased by 0.18 million acre-feet (+0.5% of conservation storage capacity) during the month. Compared to March 2000, storage is up 4.92 million acre-feet (+14.3%). Statewide storage was steady at the end of the month

For the month, storage in only the Southern (-0.5%) climatic region decreased. The North Central (96.6%), East (99.8%), South Central (98.7%), and Upper Coast (99.8%) regions are all near capacity, while the Trans-Pecos (24.3%), and Southern (26.4%) regions remained below 30%. Storage is at 100% in 42 reservoirs, 4 more than last month. Storage in the High Plains (-9.2%), Trans-Pecos (-4.9%), and Southern (-0.4%) regions is down relative to this time last year.

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.

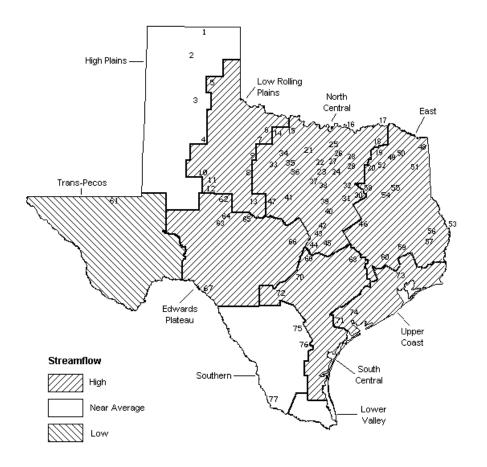
STREAMFLOW

Of 29 reporting index stations in February, computed 30-day mean flows were very high (0% - 5% exceedance) at 6 stations, high (5% - 30% exceedance) at 15 stations, near normal (30% - 70% exceedance) at 6 stations, and low (70% - 95% exceedance) at 2 stations. In comparison to February, flows increased at 22 index stations and decreased at 7.

On a regional basis, flows in March were very high in East Texas. Four of five index stations in the East region were very high, with two at or exceeding the 1% exceedance flow. All other regions were under high flow conditions except the High Plains and Southern regions (near normal), and the Trans-Pecos region (low). Again this month, low flows were reported at only the Pecos River near Girvin and Atascosa River at Whitsett stations.

MARCH STREAMFLOW CONDITIONS

Reservoirs Shown on Map



Palo Duro Reservoir 40 Waco Lake 41. Proctor Lake Lake Meredith MacKenzie Reservoir Belton Lake White River Lake 43. Stillhouse Hollow Lake Greenbelt Reservoir 44. Lake Georgetown Lake Kemp 45. Granger Lake 46. Lake Limestone 7. Miller's Creek Reservoir Fort Phantom Hill Reservoir Lake Brownwood 9 Lake Stamford 48. Wright Patman Lake 10. Lake J. B. Thomas Lake Cypress Springs 49. Lake Colorado City Lake Bob Sandlin 12. Champion Creek Reservoir 51. Lake O' the Pines 13. Hords Creek Lake 52. Lake Fork Reservoir 14. Lake Kickapoo Toledo Bend Reservoir Lake Arrowhead 54. Lake Palestine Lake Texoma 55. Lake Tyler 17. Pat Mayse Lake 56. Sam Rayburn Reservoir Cooper Lake B. A. Steinhagen Lake Lake Sulphur Springs Cedar Creek Reservoir 20. Lake Tawakoni 59. Lake Livingston Bridgeport Reservoir Lake Conroe 22. Eagle Mountain Reservoir 61 Red Bluff Reservoir 62. E. V. Spence Reservoir Benbrook Lake 23. Joe Pool Lake Twin Buttes Reservoir 25 Ray Roberts Lake 64 O.C. Fisher Lake O. H. Ivie Reservoir Lewisville Lake 27. Grapevine Lake Lake Buchanan Intl. Amistad Reservoir Lavon Lake Lake Ray Hubbard 68. Richland-Chambers Creek Lake 69. Lake Travis Navarro Mills Lake Canyon Lake 32. Bardwell Lake 71. Coleto Creek Reservoir 33. Hubbard Creek Reservoir Medina Lake Lake Graham 73. Lake Houston 35. Possum Kingdom Lake 36. Lake Palo Pinto 74 Lake Texana 75. Choke Canyon Reservoir Lake Granbury Lake Corpus Christi Lake Pat Cleburne 77. Intl. Falcon Reservoir Whitney 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 February		Late March		
OI RESELVOII	Map	Capacity	Late March 2001		2001		2000		
	мар	(acre-feet)		(%)	(acre-feet)	(&)	(acre-feet)	(%)	
			I PLAINS	(%)	(acre-reec)	(0)	(acre-reet)	(0)	
Dalla Barra Barrarada		_		10	200		4 060	_	
Palo Duro Reservoir	1 2	-	11,870	19	-320	-1	-4,062	-7 10	
Lake Meredith (Texas)	2	500,000	349,700	70	12,500	3	-49,900	-10	
Lake Meredith (Texas and Oklahoma)	(2)	779,560	240 700	45	12,500	2	40.000	-	
MacKenzie Reservoir	(2) 3	-	349,700	45 19	-	2 1	-49,900 -790	-6 -2	
White River Lake	4	•	8,570		640		-4,160		
	4	•	11,860	37	310	1	-	-13	
TOTAL		639,000	382,000	60	13,130	2	-58,912	-9	
LOW ROLLING PLAINS									
Greenbelt Reservoir	5		24,550	42	400	1	2,060	4	
Lake Kemp	6	-	190,900	60	30,600	10	22,100	7	
Miller's Creek Reservoir	7		14,110	51	4,290	15	3,310	12	
Fort Phantom Hill Reservoir	8	•	40,110	57	380	1	16,730	24	
Lake Stamford	9	-	17,920	34	5,580	11	7,400	14	
Lake J. B. Thomas	10	•	24,840	12	-310	0	-6,820	-3	
Lake Colorado City	11	•	20,620	67	-240	-1	-8,490	-28	
Champion Creek Reservoir	12		4,380	11	-80	-1		-20	
Hords Creek Lake	13	•	-	52	80	1	-900	-2 17	
TOTAL	13	8,600 811,720	4,470	42	40,700	5	1,472	5	
TOTAL		611,720	341,900	42	40,700	5	36,862	5	
		NORTH	H CENTRAL						
Lake Kickapoo	14		100,300	95	26,910	25	47,519	45	
Lake Arrowhead	15	-	203,200	78	40,400	15	77,700	30	
Lake Texoma	16	-	2,588,000	95	-134,300	-5	146,491	5	
Pat Mayse Lake	17		124,500	100	0	0	6,858	6	
Cooper Lake	18	•	273,000	100	0	0	9,227	3	
Lake Sulphur Springs	19	-	17,710	100	0	0	0	0	
Lake Tawakoni	20	•	936,200	100	0	0	185,000	20	
Bridgeport Reservoir	21	-	374,800	100	61,300	16	165,563	44	
Eagle Mountain Reservoir	22	-	178,380	100	01,300	0	46,468	26	
Benbrook Lake	23	-		100	0	0		16	
Joe Pool Lake	24	•	88,200	100	0	0	13,980	9	
Ray Roberts Lake	25	•	175,800 798,760	100		3	15,786 229,021	29	
Lewisville Lake	26	•	555,000	100	21,560	0		39	
		-	187,700		0	0	213,811 58,382		
Grapevine Lake	27 28	-	-	100	0		•	31 25	
Lavon Lake			443,800		0		111,652		
Lake Ray Hubbard	29		413,100	100	-320	0	-320	0	
Richland-Chambers Creek Lake	30			100	0	0	158,302	14	
Navarro Mills Lake	31		55,810	100	0	0	15,818	28	
Bardwell Lake	32		53,580	100	0	0	11,385	21	
Hubbard Creek Reservoir	33		159,800	50	3,100	1	-30,800	-10	
Lake Graham	34		45,000	100	0	0	6,780	15	
Possum Kingdom Lake	35		530,500	96	-4,700	-1	69,200	13	
Lake Palo Pinto	36		26,910	97	-260	-1	-533	-2	
Lake Granbury	37		128,100	94	2,500	2	9,000	7	
Lake Pat Cleburne	38		25,300	100	0	0	9,446	37	
Whitney Lake	39			100	0	0	193,200	31	
Waco Lake	40			100	0	0	30,995	21	
Proctor Lake	41		55,590	100	18,710	34	36,199	65	
Belton Lake	42		434,500	100	0	0	63,699	15	
Stillhouse Hollow Lake	43		226,060	100	0	0	15,825	7	
Lake Georgetown	44		37,010	100	0	0	13,048	35	
Granger Lake	45		54,280	100	0	0	1,141	2	
Lake Limestone	46		215,750	100	150	0	42,850	20	
Lake Brownwood	47			90	8,200	6	49,150	34	
TOTAL		11,908,050	11,506,960	97	43,250	0	2,021,843	17	

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 2001 (acre-feet) (%)		Late February 2001 (acre-feet) (%)		Late March 2000	
OI RESELVOII	Map	Capacity						
	мар	(acre-feet)						
		(acre-reet)	(acre-reec)	(%)	(acre-reec)	(%)	(acre-reec)	(%)
		1	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	14,700	7
Lake O' the Pines	51	252,000	252,000	100	0	0	0	0
Lake Fork Reservoir	52	635,200	635,200	100	0	0	30,100	5
Toledo Bend Reservoir	53	4,472,900	4,472,900	100	0	0	860,900	19
Lake Palestine	54	411,300	411,300	100	0	0	35,900	9
Lake Tyler	55	73,700	73,700	100	0	0	12,105	16
Sam Rayburn Reservoir	56	2,876,300	2,876,300	100	0	0	961,300	33
B. A. Steinhagen Lake	57	94,200	73,970	79	-1,740	-2	18,389	20
Cedar Creek Reservoir	58	637,050	637,050	100	0	0	88,975	14
Lake Livingston	59	1,750,000	1,750,000	100	0	0	0	0
Lake Conroe	60	429,900	423,300	98	4,200	1	51,000	12
TOTAL		12,044,350	12,017,520	100	2,460	0	2,073,369	17
		mp a N	ic pecoc					
Ped Place Personal	61		S-PECOS	0.4	0.000		15 100	_
Red Bluff Reservoir	61		74,720	24	2,920	1	-15,190	-5
TOTAL		307,000	74,720	24	2,920	1	-15,190	-5
		EDWARD	S PLATEAU					
E. V. Spence Reservoir	62	488,760	81,940	17	-1,640	0	-16,620	-3
Twin Buttes Reservoir	63	177,800	10,020	6	690	0	4,409	2
O.C. Fisher Lake	64	119,200	9,000	8	-840	-1	-5,680	-5
O. H. Ivie Reservoir	65	554,340	319,600	58	700	0	18,200	3
Lake Buchanan	66	896,980	838,900	94	51,300	6	231,482	26
Amistad Reservoir (Texas)	67	1,771,030	1,185,000	67	18,000	1	137,000	8
Amistad Reservoir								
(Texas and Mexico)	(67)	3,151,300	1,380,000	44	18,000	1	-38,000	-1
TOTAL		4,008,110	2,444,460	61	68,210	2	368,791	9
		SOUTH	CENTRAL					
Somerville Lake	68		155,060	100	0	0	35,950	23
Lake Travis	69	1,144,100	1,144,100	100	0	0	326,053	28
Canyon Lake	70	385,600	385,600	100	0	0	30,564	8
Coleto Creek Reservoir	70		31,580	90	430	1	3,590	10
Medina Lake	72		232,300	91	18,500	7	53,000	21
TOTAL	72	1,973,820	1,948,640	99	18,930	1	449,157	23
		_,,,,,,,,	_,,,,,,,,		_0,550	_	,	_3
			R COAST					
Lake Houston	73		128,860	100	0	0	17,460	14
Lake Texana	74		157,200	100	2,600	2	38,700	25
TOTAL		286,760	286,060	100	2,600	1	56,160	20

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

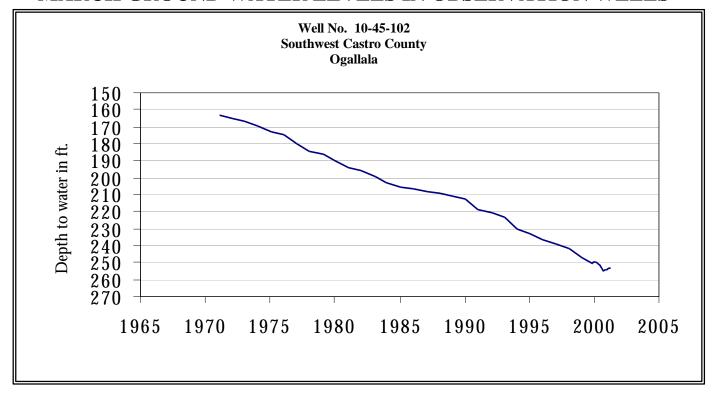
Name of Lake	No.	Conservation	Conservation		Change since		Change since			
or Reservoir	on	Storage	Storage		Late February		Late March			
	Map	Capacity	Late March 2001		2001		2000			
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)		
SOUTHERN										
Choke Canyon Reservoir	75	695,260	270,000	39	-2,000	0	-13,000	-2		
Lake Corpus Christi	76	241,240	101,600	42	-1,700	-1	-44,200	-18		
Falcon Reservoir (Texas)	77	1,555,120	285,000	18	-8,000	-1	47,000	3		
Falcon Reservoir										
(Texas and Mexico)	(77)	2,653,290	330,000	12	-17,000	-1	-216,000	-8		
TOTAL		2,491,620	656,600	26	-11,700	0	-10,200	0		
STATE TOTAL		34,470,430	29,658,860	86	180,500	1	4,921,880	14		

Note:

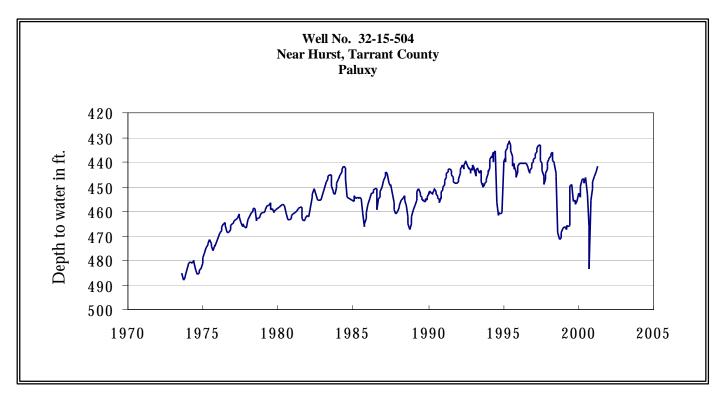
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

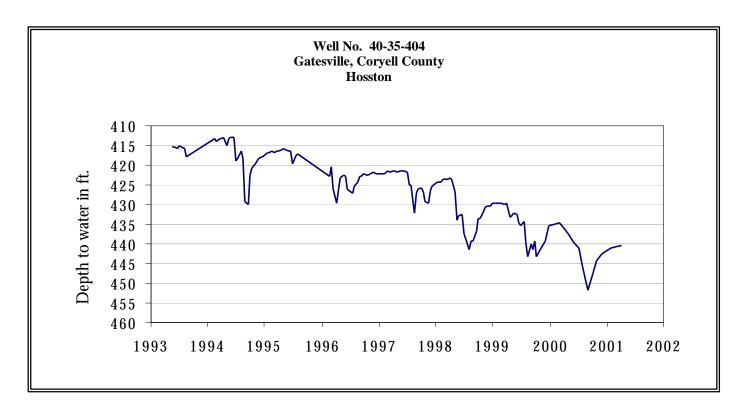
MARCH GROUND WATER LEVELS IN OBSERVATION WELLS



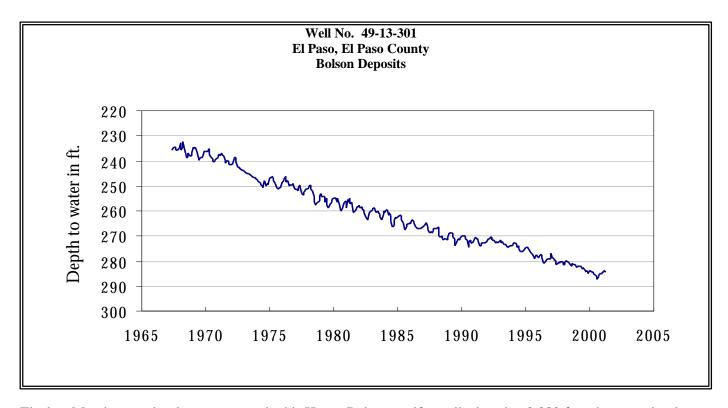
The late March water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 253.33 feet below land surface. This measurement was 0.22 feet above last month's measurement, 3.16 feet below last year's measurement, and 97.33 feet below the initial measurement recorded in 1968.



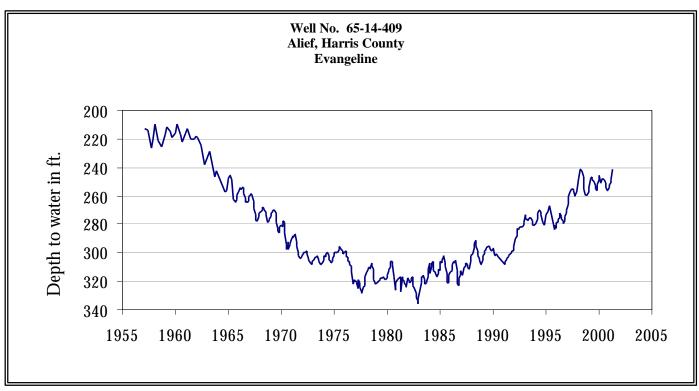
The late March water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 441.76 feet below land surface. This measurement was 1.97 feet above last month's measurement, 4.99 feet above last year's measurement, and 48.37 feet below the initial measurement recorded in 1953.



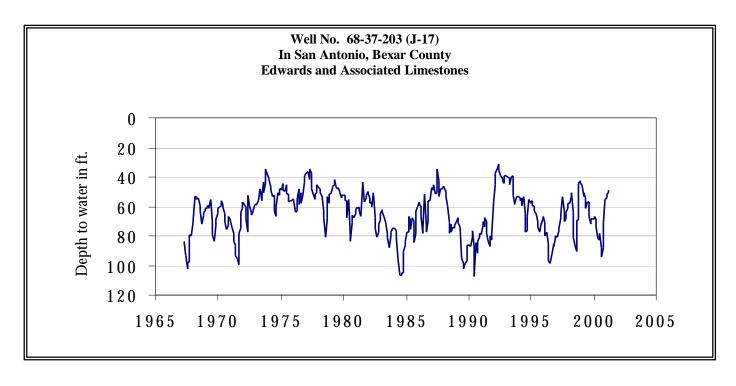
The late March water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 440.20 feet below land surface. This measurement was 0.49 feet above last month's measurement, 4.37 feet below last year's measurement, and 148.20 feet below the initial measurement recorded in 1955.



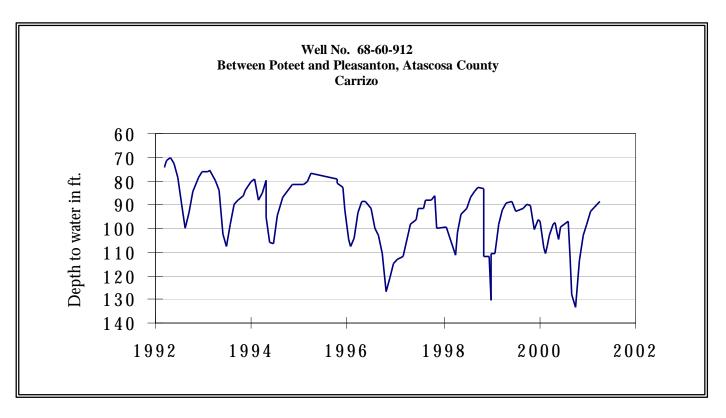
The late March water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 284.43 feet below land surface. This was 0.46 feet below last month's measurement, 0.16 feet below last year's measurement, and 52.53 feet below the initial measurement recorded in 1964.



The late March water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 241.68 feet below land surface. This was 6.76 feet above last month's measurement, 9.10 feet above last year's measurement, and 138.45 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 49.19 feet below land surface. This was 1.74 feet above last month's measurement, 24.63 feet above last year's measurement, and 10.43 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 88.70 feet below land surface. This measurement was 2.56 feet above last month's measurement, 14.39 feet above last year's measurement, and 7.45 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH

