Texas Water Development Board





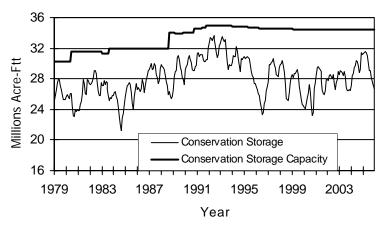
RESERVOIR STORAGE

December 2005

Near the end of December, the 77 reservoirs monitored for this report held 26.77 million acre-feet in conservation storage, or 78 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 during the month by 0.31 million acre-feet (-0.9% of conservation storage capacity). Compared to last year, storage decreased by 4.33 million acre-feet (-12.6%).

Storage was near capacity in the Upper Coast Region (95%), but lower than one-third of capacity in the High Plains Region (26%). Storage was at 100% in 4 reservoirs, and the Texas share of Amistad remained above its capacity, at 130%. Compared to this time last year, the storage increased in Southern and Trans-Pecos Regions (+4%) and the Low Rolling Plains Region (+3%), and the decreased in six regions with the sharpest decreases in the East and South Central Regions (both -19%).

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.

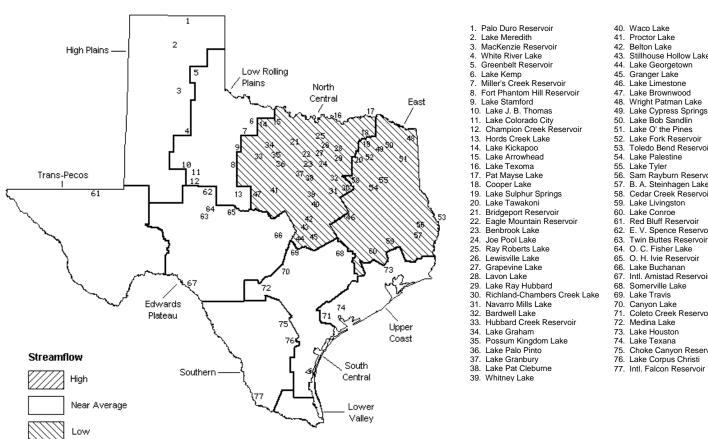
STREAMFLOW

Of 29 reporting index stations in December, computed 30-day mean flows were high (5% -30%) at 2 stations, low (70% - 95%) at 12 stations, and near normal (30% - 70% exceedance) at the remaining 15 stations. Compared to November, flows have increased at 19 index stations and decreased at 10 stations.

On a regional basis, flows in December were low in North Central and East Texas Regions, and normal everywhere else. Streamflow in the Lower Valley Region is not monitored.

DECEMBER STREAMFLOW CONDITIONS

Reservoirs Shown on Map



Lake Bob Sandlin 51 Lake O' the Pines 52. Lake Fork Reservoir Toledo Bend Reservoir 54. Lake Palestine 55. Lake Tyler Sam Rayburn Reservoir 57. B. A. Steinhagen Lake Cedar Creek Reservoir 59. Lake Livingston 60. Lake Conroe 61 Red Bluff Reservoir 62. E. V. Spence Reservoir Twin Buttes Reservoir 64. O. C. Fisher Lake 65. O. H. Ivie Reservoir Lake Buchanan 67. Intl. Amistad Reservoir Somerville Lake 69. Lake Travis 70. Canvon Lake Coleto Creek Reservoir 72. Medina Lake 73. Lake Houston 74. Lake Texana 75. Choke Canvon Reservoir Lake Corpus Christi 77. Intl. Falcon Reservoir

Belton Lake

Granger Lake

Stillhouse Hollow Lake

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Maria a E. T. N	37-	Games :	Cong		Change =====		Characteristics					
Name of Lake or Reservoir	No.	Conservation	Conservat		Change since		Change since					
or Reservoir	on Map	Storage	Storage Late Dec.		Late November		Late December 2004					
	Map	Capacity (acre-feet)	(acre-feet)	(%)	2005 (acre-feet)	(%)	(acre-feet)	(%)				
				(%)	(acre-reec)	(0)	(acre-reec)	(0)				
Palo Duro Reservoir	1	60,900	I PLAINS	_	_	_	_	_				
Lake Meredith (Texas)	2	500,000	146,500	29	-3,690	-1	-19,690	-4				
Lake Meredith		300,000	140,500	23	-3,090		-13,030					
(Texas and Oklahoma)	(2)	779,560	146,500	19	-3,690	0	-19,690	-3				
MacKenzie Reservoir	3	46,250	9,750	21	-140	0	-280	-1				
White River Lake	4	31,850	6,130	19	-280	-1	-3,670	-12				
TOTAL		639,000	164,670	26	-4,110	-1	-25,780	-4				
		•	•		•		•					
LOW ROLLING PLAINS												
Greenbelt Reservoir	5	58,200	21,640	37	-200	0	-1,040	-2				
Lake Kemp	6	319,600	278,720	87	-2,400	-1	32,340	10				
Miller's Creek Reservoir	7	27,890	26,460	95	-540	-2	5,140	18				
Fort Phantom Hill Reservoir	8	70,030	47,320	68	-2,150	-3	-19,940	-28				
Lake Stamford	9	52,700	50,090	95	-1,190	-2	13,890	26				
Lake J. B. Thomas	10	202,300	59,140	29	-2,430	-1	-2,920	-1				
Lake Colorado City	11	30,800	28,240	92	-400	-1	-2,560	-8				
Champion Creek Reservoir	12	41,600	5,810	14	1,310	3	850	2				
Hords Creek Lake	13	8,600	6,740	78	-190	-2	-1,110	-13				
TOTAL		811,720	524,160	65	-8,190	-1	24,650	3				
		NORTH	I CENTRAL									
Lake Kickapoo	14	106,000	93,780	88	-1,970	-2	20,190	19				
Lake Arrowhead	15	262,100	226,370	86	-4,110	-2	35,840	14				
Lake Texoma	16	2,722,300	2,402,140	88	-39,810	-1	-215,410	-8				
Pat Mayse Lake	17	124,500	93,580	75	-2,560	-2	-26,220	-21				
Cooper Lake	18	273,000	141,570	52	-11,040	-4	-71,450	-26				
Lake Sulphur Springs	19	17,710	11,610	66	-180	-1	-6,100	-34				
Lake Tawakoni	20	936,200	620,000	66	-20,500	-2	-262,500	-28				
Bridgeport Reservoir	21	374,830	255,100	68	-2,800	-1	-89,900	-24				
Eagle Mountain Reservoir	22	178,380	137,200	77	-3,000	-2	-35,800	-20				
Benbrook Lake	23	88,200	44,290	50	-1,750	-2	-42,330	-48				
Joe Pool Lake	24	175,800	150,860	86	-2,320	-1	-24,940	-14				
Ray Roberts Lake	25	798,760	702,040	88	-10,780	-1	-96,720	-12				
Lewisville Lake	26	555,000	451,420	81	-11,390	-2	-103,580	-19				
Grapevine Lake	27	187,700	136,260	73	-3,740	-2	-47,130	-25				
Lavon Lake	28	443,800	276,860	62	-7,780	-2	-166,940	-38				
Lake Ray Hubbard	29	413,420	330,800	80	-10,500	-3	-70,800	-17				
Richland-Chambers Creek Lake	30	1,103,820	936,100	85	-21,900	-2	-167,720	-15				
Navarro Mills Lake	31	55,810	39,420	71	-1,510	-3	-16,390	-29				
Bardwell Lake	32	53,580	34,970	65	-1,570	-3	-12,260	-23				
Hubbard Creek Reservoir	33	317,800	184,700	58	-3,020	-1	-1,400	0				
Lake Graham	34		42,840	95	-1,000	-2	3,620	8				
Possum Kingdom Lake	35	551,820	497,630	90	-7,480	-1	-46,170	-8				
Lake Palo Pinto	36	27,650	14,890	54	-1,110	-4	-11,450	-41				
Lake Granbury	37	135,680	132,640	98	2,110	2	-1,260	-1				
Lake Pat Cleburne	38	25,300	18,890	75	-370	-1	-6,410	-25				
Whitney Lake	39	622,800	509,050	82	-31,520	-5	-70,440	-11				
Waco Lake	40	144,500	144,500	100	0	0	10.000	0				
Proctor Lake	41	55,590	35,700	64	-1,970	-4	-19,890	-36				
Belton Lake	42	434,500	405,030	93	-6,750	-2	-29,470	-7				
Stillhouse Hollow Lake	43	226,060	221,440	98	-1,070	0	-4,620	-2 36				
Lake Georgetown	44	37,010	23,620	100	-1,960	-5 1	-13,390	-36				
Granger Lake	45	54,280	54,280	100	400	1	43.740	0				
Lake Brownwood	46 47	215,750	169,110	78 84	-4,940 -2 190	-2 -2	-43,740 -13,220	-20 -9				
Lake Brownwood	47	143,400	120,290	84	-2,190 -220,080	-2 -2	-13,220	-9 -14				
TOTAL		11,908,050	9,658,980	81	-220,080	-2	-1,658,000	-14				

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

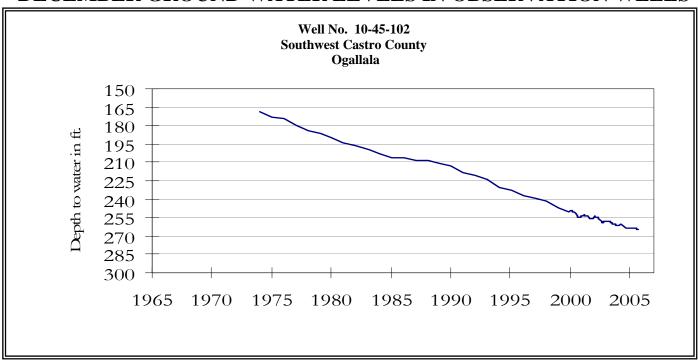
Name of Lake	No.	Conservation	Conservation		Change since		Change since					
or Reservoir	on	Storage	Storage		Late November		Late December					
	Map	Capacity	Late Dec.	Late Dec. 2005			2004					
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)				
	II											
EAST Wright Patman Lake 48 142,700 142,700 100 0 0 0 0												
Wright Patman Lake	48	•	142,700	100	0	0		0				
Lake Cypress Springs	49	•	57,300	86	-600	-1	-8,130	-12				
Lake Bob Sandlin Lake O' the Pines	50	•	156,900	78	-2,500	-1	-38,300	-19				
	51		177,080	70	-4,530	-2	-71,760	-28				
Lake Fork Reservoir	52	•	567,200	89	-7,400	-1	-68,000	-11				
Toledo Bend Reservoir	53		3,020,000	68	1,000	0	-895,000	-20				
Lake Palestine	54	•	335,950	82	-5,630	-1	-75,350	-18				
Lake Tyler	55	•	59,350	81	-1,390	-2	-14,350	-19				
Sam Rayburn Reservoir	56		2,356,740	82	-11,140	0	-519,560	-18				
B. A. Steinhagen Lake	57		52,680	56	-2,950	-3	-30,540	-32				
Cedar Creek Reservoir	58	•	506,400	79	-16,500	-3	-128,900	-20				
Lake Livingston	59		1,406,000	80	-12,000	-1	-338,000	-19				
Lake Conroe	60		338,900	79	-2,500	-1	-77,700	-18				
TOTAL		12,044,350	9,177,200	76	-66,140	-1	-2,265,590	-19				
		трак	IS-PECOS									
Red Bluff Reservoir	61	_	128,480	42	23,010	7	11,130	4				
TOTAL	0_	307,000	128,480	42	23,010	7	11,130	4				
IOIAL		307,000	120,400	12	23,010	,	11,130	-				
		EDWARD	S PLATEAU									
E. V. Spence Reservoir	62	488,760	94,710	19	-1,710	0	15,770	3				
Twin Buttes Reservoir	63	177,800	48,730	27	1,900	1	21,710	12				
O.C. Fisher Lake	64	119,200	13,850	12	-420	0	6,490	5				
O. H. Ivie Reservoir	65	554,340	289,400	52	-2,800	-1	55,300	10				
Lake Buchanan	66	896,980	766,450	85	-8,190	-1	-130,530	-15				
Amistad Reservoir (Texas)	67	1,771,030	2,311,000	130	-25,000	-1	-96,000	-5				
Amistad Reservoir												
(Texas and Mexico)	(67)	3,151,300	2,763,000	88	-15,000	0	-172,000	-5				
TOTAL		4,008,110	3,524,140	88	-36,220	-1	-127,260	-3				
			I CENTRAL			_						
Somerville Lake	68	•	121,630	78	190	0	-33,430	-22				
Lake Travis	69		881,700	77	-13,640	-1	-262,400	-23				
Canyon Lake	70		360,770	94	-2,480	-1	-21,800	-6				
Coleto Creek Reservoir	71		25,700	73	-550	-2	-6,180	-18				
Medina Lake	72	-	197,100	78	-6,500	-3	-56,900	-22				
TOTAL		1,973,820	1,586,900	80	-22,980	-1	-380,710	-19				
		IIPPR	ER COAST									
Lake Houston	73		128,860	100	0	0	0	0				
Lake Texana	74		143,430	91	-8,000	-5	-12,520	-8				
TOTAL		286,760	272,290	95	-8,000	-3	-12,520	-4				
			,		.,		, .					
		SO	UTHERN									
Choke Canyon Reservoir	75		617,000	89	-6,000	-1	-75,000	-11				
Lake Corpus Christi	76		142,500	59	-8,500	-4	-98,740	-41				
Falcon Reservoir (Texas)	77	1,555,120	972,000	63	47,000	3	279,000	18				
Falcon Reservoir												
(Texas and Mexico)	(77)	2,653,290	1,621,000	61	75,000	3	-171,000	-6				
TOTAL		2,491,620	1,731,500	69	32,500	1	105,260	4				
STATE TOTAL		34,470,430	26,768,320	78	-310,210	-1	-4,328,820	-13				

Note:

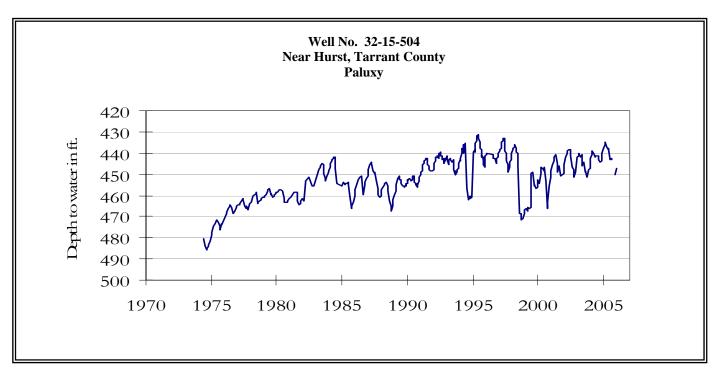
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included 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). This month the storage of Palo Duro Reservoir was unavailable. Preliminary figures are shown for the Texas' share of conservation storage in all reservoirs.

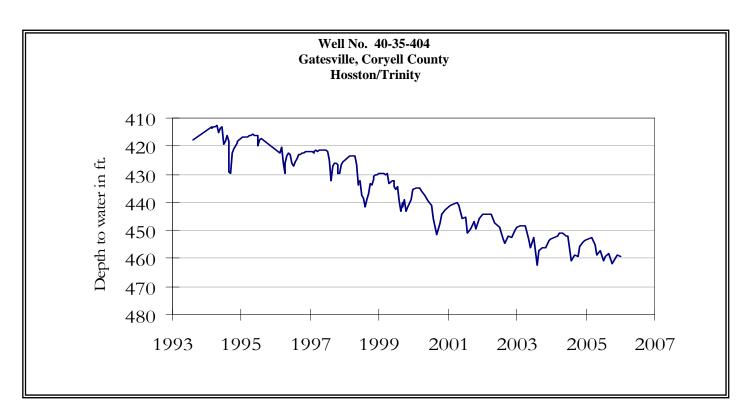
DECEMBER GROUND WATER LEVELS IN OBSERVATION WELLS



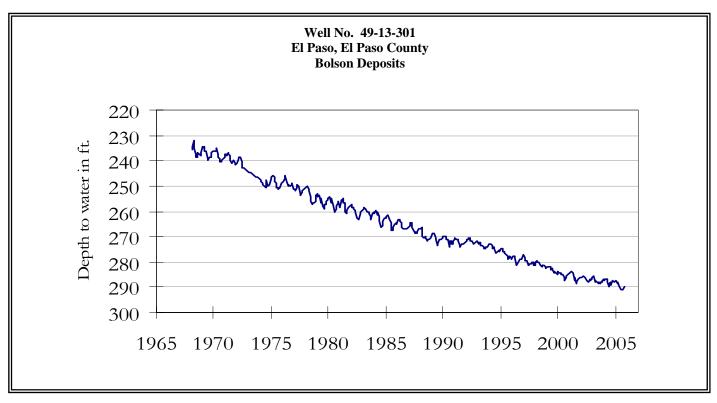
The water-level measurement is not available this month for this Ogallala aquifer well (recorder under repair). The graph presented is from last month's report.



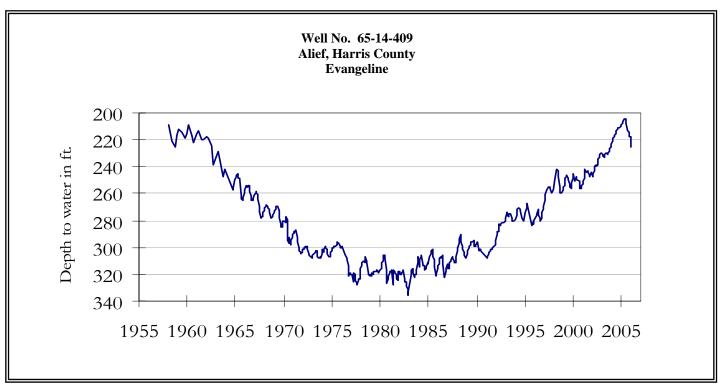
The late December water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 447.24 feet below land surface. This measurement was 2.88 feet above last month's measurement, 9.74 feet below last year's measurement, and 69.24 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September and October.



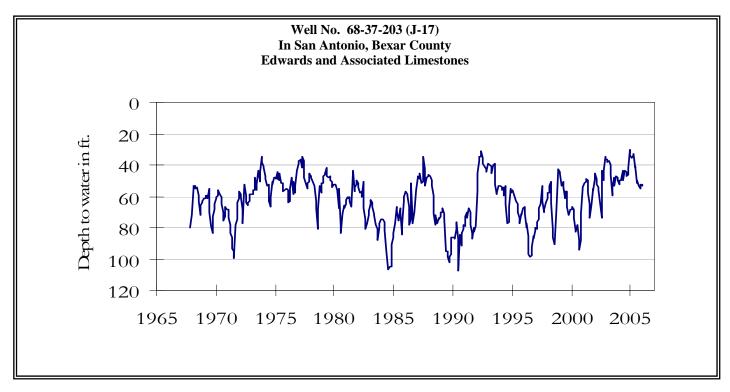
The late December water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 459.01 feet below land surface. This water level was 0.12 feet below last month's measurement, 5.57 feet below last year's measurement, and 167.01 feet below the initial measurement recorded in 1955.



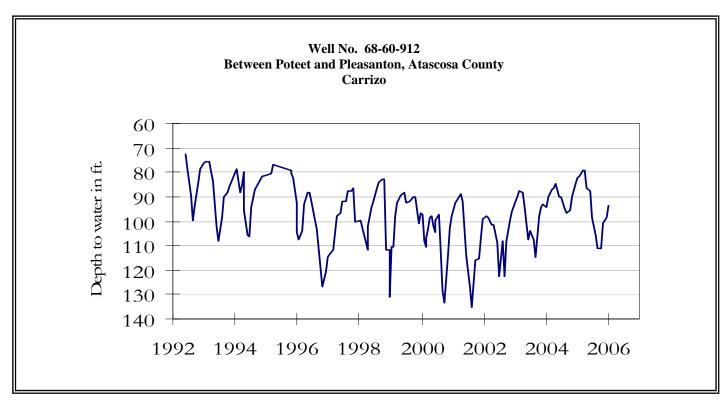
The water-level measurement is not available this month for this Hueco Bolson aquifer well (recorder under repair). The graph presented is from last month's report.



The late December water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 225.56 feet below land surface. This was 7.56 feet below last month's measurement, 16.79 feet below last year's measurement, and 90.06 feet below the initial measurement recorded in 1947.

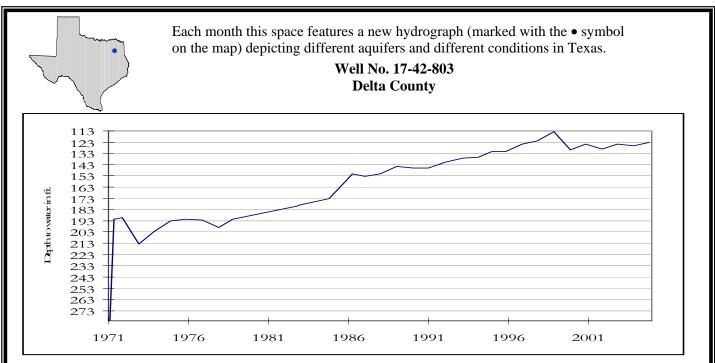


The late December water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 52.58 feet below land surface. This was 0.31 feet above last month's measurement, 18.65 feet below last year's measurement, and 5.94 feet below the initial measurement recorded in 1962.



The late December water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 93.88 feet below land surface. This measurement was 4.36 feet above last month's measurement, 11.85 feet below last year's measurement, and 58.52 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



This unused water level observation well, located 5 miles east of Commerce, at an elevation of 481 feet ASL, was completed in the Nacatoch aquifer. Long term municipal pumpage from the aquifer in 1960's and early 1970's resulted in water level declines around Commerce. Fortunately, these declines have been stabilized with conjunctive use of available surface water supplies.

December, 2005

Water level measurements were available for five of the seven key monitoring wells. Water levels rose in three of the monitoring wells since the beginning of December, ranging from 0.31 feet in the Bexar Co. J-17 well to 4.36 feet in the Atascosa Co. Carrizo well. Water levels declined in the remaining two monitoring wells, ranging from 0.12 feet in the Coryell Co. Hosston/Trinity well to 7.56 feet in the Harris Co. Evangeline well. The J-17 well recorded a water level of 52.58 feet below land surface. This water level is approximately twenty-seven (27) feet above the Stage 1 critical management criteria.

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