Texas Water Development Board





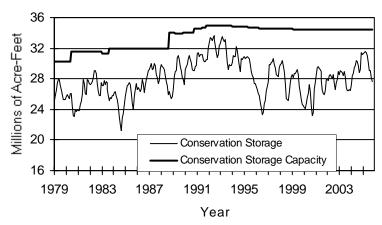
RESERVOIR STORAGE

October 2005

Near the end of October, the 77 reservoirs monitored for this report held 27.59 million acre-feet in conservation storage, or 80 percent of the conservation storage capacity of the state's major reservoirs. Storage decreased during the month by 0.6 million acre-feet (-2% of conservation storage capacity). Compared to last year, storage decreased by 1.66 million acre-feet (-5%).

Storage was near capacity in the Upper Coast Region (93%) and Edwards Plateau Region (90%), but lower than one-third of capacity in the High Plains Region (27%) and Trans-Pecos Region (30%). Storage was at 100% in 7 reservoirs, and the Texas share of Amistad remained above its capacity, at 133%. Compared to this time last year, the storage increased in four regions with the greatest increase in the Low Rolling Plains Region (23%), and decreased in five regions with the sharpest decrease in the South Central Region (-15%).

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 October, computed 30-day mean flows were high (5% -30%) at 3 stations, low (70% - 95%) at 9 stations, and near normal (30% - 70% exceedance) at the remaining 17 stations. Compared to September, flows have increased at 19 index stations and decreased at 10 stations.

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

OCTOBER STREAMFLOW CONDITIONS

Reservoirs Shown on Map Palo Duro Reservoir 40. Waco Lake

Lake Meredith

Lake Kemp

MacKenzie Reservoir

Greenbelt Reservoir

7 Miller's Creek Reservoir

Lake Colorado City

White River Lake

Lake Stamford
 Lake J. B. Thomas

Lake Kickapoo

15. Lake Arrowhead

18. Cooper Lake

Lake Texoma

Pat Mayse Lake

Lake Tawakoni

Benbrook Lake

Joe Pool Lake

Lewisville Lake

Grapevine Lake

Lake Ray Hubbard

Navarro Mills Lake

Possum Kingdom Lake

Bardwell Lake

Lake Graham

Lake Palo Pinto

Lake Granbury

38. Lake Pat Cleburne

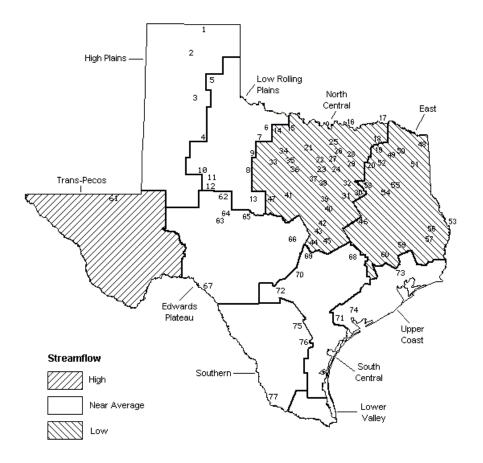
Whitney Lake

28. Lavon Lake

Ray Roberts Lake

Lake Sulphur Springs

Bridgeport Reservoir



45. Granger Lake 46. Lake Limestone Fort Phantom Hill Reservoir 12. Champion Creek Reservoir13. Hords Creek Lake Eagle Mountain Reservoir Richland-Chambers Creek Lake 33. Hubbard Creek Reservoir

47. Lake Brownwood 48. Wright Patman Lake 49. Lake Cypress Springs Lake Bob Sandlin 51 Lake O' the Pines

41. Proctor Lake

Belton Lake

44. Lake Georgetown

Stillhouse Hollow Lake

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

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation		Change since		Change since					
or Reservoir	on	Storage	Storage		Late September		Late October					
or Repervers	Map	Capacity	Late Oct. 2005		2005		2004					
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)		(%)				
	I .		I PLAINS	(- /	(00000 0000)	(- /	(3323 2337)	(• /				
Palo Duro Reservoir	1		2,290	4	-90	0	-2,200	-4				
Lake Meredith (Texas)	2	-	155,640	31	-5,820	-1	-350	0				
Lake Meredith	_	300,000	155,010	31	3,020	_	330	Ū				
(Texas and Oklahoma)	(2)	779,560	155,640	20	-5,820	-1	-350	0				
MacKenzie Reservoir	3	-	10,050	22	-140	0	1,210	3				
White River Lake	4	-	6,780	21	-300	-1	-210	-1				
TOTAL		639,000	174,760	27	-6,350	-1	-1,550	0				
LOW ROLLING PLAINS												
Greenbelt Reservoir	5		22,240	38	-600	-1	-10	0				
Lake Kemp	6	-	286,640	90	3,440	1	99,710	31				
Miller's Creek Reservoir	7		27,890	100	0,440	0	13,470	48				
Fort Phantom Hill Reservoir	8	70,030	52,120	74	-1,300	-2	5,670	8				
Lake Stamford	9	52,700	52,700	100	-1,500	0	23,350	44				
Lake J. B. Thomas	10	202,300	64,550	32	-1,170	-1	35,030	17				
Lake Colorado City	11		29,190	95	-40	0	6,040	20				
Champion Creek Reservoir	12	•	5,810	14	20	0	1,380	3				
Hords Creek Lake	13	-	7,120	83	-180	-2	3,780	44				
TOTAL	13	811,720	548,260	68	170	0	188,420	23				
		0==,,=0	510,100		_,,	·	200,120					
		NORTH	I CENTRAL									
Lake Kickapoo	14	106,000	98,760	93	430	0	33,960	32				
Lake Arrowhead	15	262,100	236,790	90	27,950	11	88,000	34				
Lake Texoma	16	2,722,300	2,486,430	91	-11,960	0	67,120	2				
Pat Mayse Lake	17	124,500	98,860	79	-3,720	-3	-10,460	-8				
Cooper Lake	18	273,000	168,800	62	-16,360	-6	9,060	3				
Lake Sulphur Springs	19	17,710	12,340	70	-410	-2	-3,360	-19				
Lake Tawakoni	20	936,200	665,800	71	-30,500	-3	-179,100	-19				
Bridgeport Reservoir	21	374,830	266,900	71	-11,600	-3	-54,200	-14				
Eagle Mountain Reservoir	22	178,380	141,600	79	-2,500	-1	-20,300	-11				
Benbrook Lake	23	88,200	50,020	57	-2,660	-3	-26,180	-30				
Joe Pool Lake	24	175,800	156,420	89	-4,000	-2	-19,380	-11				
Ray Roberts Lake	25	798,760	726,560	91	-17,650	-2	-67,130	-8				
Lewisville Lake	26	555,000	479,600	86	-29,620	-5	-75,400	-14				
Grapevine Lake	27	187,700	144,800	77	-6,200	-3	-35,520	-19				
Lavon Lake	28	443,800	297,590	67	-25,850	-6	-94,010	-21				
Lake Ray Hubbard	29	413,420	351,000	85	-9,800	-2	-21,500	-5				
Richland-Chambers Creek Lake	30		983,900	89	-34,100	-3	-119,920	-11				
Navarro Mills Lake	31		42,950	77	-2,390	-4	-12,860	-23				
Bardwell Lake	32		38,320	72	-2,260	-4	-9,600	-18				
Hubbard Creek Reservoir	33		192,020	60	-2,800	-1	71,340	22				
Lake Graham	34		45,000	100	8,470	19	15,230	34				
Possum Kingdom Lake	35		515,380	93	-8,020	-1	-25,620	-5				
Lake Palo Pinto	36		17,320	63	-1,410	-5	-3,540	-13				
Lake Granbury	37		133,610	98	-390	0	710	1				
Lake Pat Cleburne	38		19,760	78	-770	-3	-4,200	-17				
Whitney Lake	39		561,640	90	-31,150	-5	12,930	2				
Waco Lake	40		144,500	100	0	0	0	0				
Proctor Lake	41		39,150	70	-3,070	-6	-15,990	-29				
Belton Lake	42		419,210	96	-10,090	-2	-15,290	-4				
Stillhouse Hollow Lake	43		223,580	99	-1,660	-1	-2,480	-1				
Lake Georgetown	44		27,820	75 100	-2,000	-5	-3,680	-10				
Granger Lake	45		54,010	100	-270 7 100	0	-270	12				
Lake Limestone	46 47		179,910	83	-7,190 -2,930	-3	-27,190 -6,290	-13 -4				
Lake Brownwood TOTAL	4/	143,400 11,908,050	125,210 10,145,560	87 85	-2,930 -246,480	-2 -2	-6,290 -555,120	-4 -5				
		11,500,050	10,110,000	0.5	240,400	_	333,120	5				

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

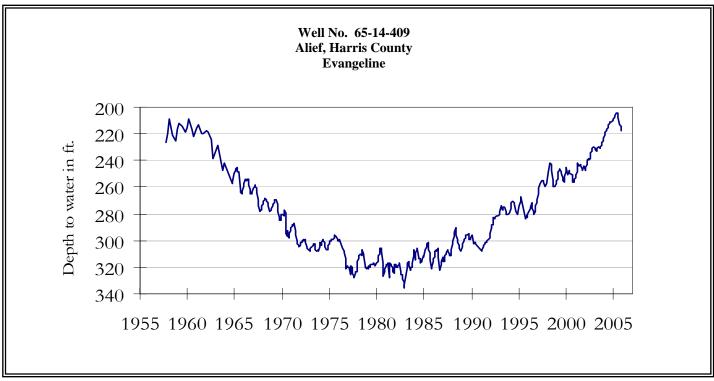
Name of Lake	No.	Conservation	Conservation		Change since		Change since	
or Reservoir	on	Storage	Storage		Late September		Late October	
	Map	Capacity	Late Oct. 2005		2005		2004	
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
	•			,				
			EAST					
Wright Patman Lake	48	•	142,700	100	0	0	0	0
Lake Cypress Springs	49	•	58,740	88	-1,520	-2	-4,730	-7
Lake Bob Sandlin	50	•	162,900	81	-7,300	-4	-28,700	-14
Lake O' the Pines	51	•	190,710	76	-8,970	-4	-53,570	-21
Lake Fork Reservoir	52		584,500	92	-14,100	-2	-50,700	-8
Toledo Bend Reservoir	53		3,098,000	69	-56,000	-1	-784,000	-18
Lake Palestine	54	•	348,050	85	-11,320	-3	-46,930	-11
Lake Tyler	55		62,640	85	-3,040	-4	-11,060	-15
Sam Rayburn Reservoir	56	, ,	2,420,500	84	-123,210	-4	-87,360	-3
B. A. Steinhagen Lake	57	•	45,050	48	-8,360	-9	-43,100	-46
Cedar Creek Reservoir	58	637,050	537,500	84	-17,000	-3	-67,800	-11
Lake Livingston	59		1,425,000	81	-13,000	-1	-325,000	-19
Lake Conroe	60	- •	345,200	80	-22,400	-5	-43,700	-10
TOTAL		12,044,350	9,421,490	78	-286,220	-2	-1,546,650	-13
		TRAN	S-PECOS					
Red Bluff Reservoir	61		92,700	30	1,200	0	2,830	1
TOTAL	01	307,000	92,700	30	1,200	0	2,830	1
101112		307,000	32,700	30	1,200	·	2,000	_
		EDWARD	S PLATEAU					
E. V. Spence Reservoir	62	488,760	98,880	20	-900	0	57,100	12
Twin Buttes Reservoir	63	177,800	45,660	26	1,420	1	40,600	23
O.C. Fisher Lake	64	119,200	14,920	13	-460	0	13,250	11
O. H. Ivie Reservoir	65	554,340	297,200	54	-1,500	0	129,900	23
Lake Buchanan	66	896,980	778,740	87	-8,300	-1	-89,610	-10
Amistad Reservoir (Texas)	67	1,771,030	2,355,000	133	-13,000	-1	312,000	18
Amistad Reservoir								
(Texas and Mexico)	(67)	3,151,300	2,785,000	88	17,000	1	325,000	10
TOTAL		4,008,110	3,590,400	90	-22,740	-1	463,240	12
		SOUTH	CENTRAL					
Somerville Lake	68		128,960	83	-6,730	-4	-26,100	-17
Lake Travis	69	•	914,900	80	-52,700	-5	-201,100	-18
Canyon Lake	70		365,740	95	-3,550	-1	-19,860	-5
Coleto Creek Reservoir	70	•	27,430	78	-3,330 -480	-1	-2,810	-8
Medina Lake	72		212,200	84	-10,700	-4	-41,800	-16
TOTAL	,_	1,973,820	1,649,230	84	-74,160	-4	-291,670	-15
		UPPE	R COAST					
Lake Houston	73	128,860	128,860	100	60	0	9,360	7
Lake Texana	74	157,900	138,040	87	5,140	3	-15,690	-10
TOTAL		286,760	266,900	93	5,200	2	-6,330	-2
		SOI	UTHERN					
Choke Canyon Reservoir	75		634,000	91	-10,000	-1	-56,000	-8
Lake Corpus Christi	76		160,400	66	-9,400	-4	-79,500	-33
Falcon Reservoir (Texas)	77	•	907,000	58	46,000	3	226,000	15
Falcon Reservoir	,,	_,555,120	20.,000	55	10,000	3	220,000	-5
(Texas and Mexico)	(77)	2,653,290	1,496,000	56	134,000	5	-255,000	-10
TOTAL	(,,,	2,491,620	1,701,400	68	26,600	1	90,500	4
		-	-		-		-	
		24 452 455	05 500 500		600 700	_	1 (5 222	_
STATE TOTAL		34,470,430	27,590,700	80	-602,780	-2	-1,656,330	- 5

Note:

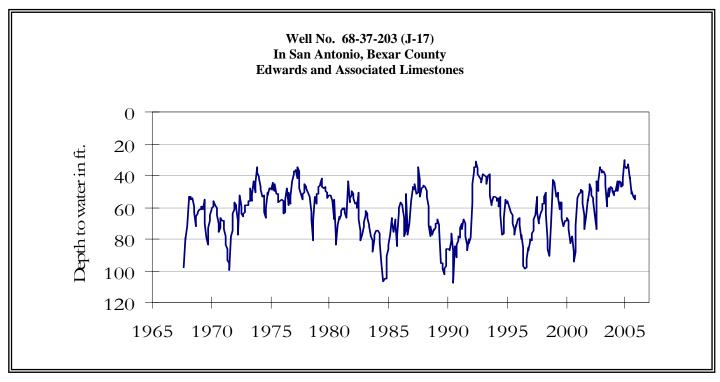
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

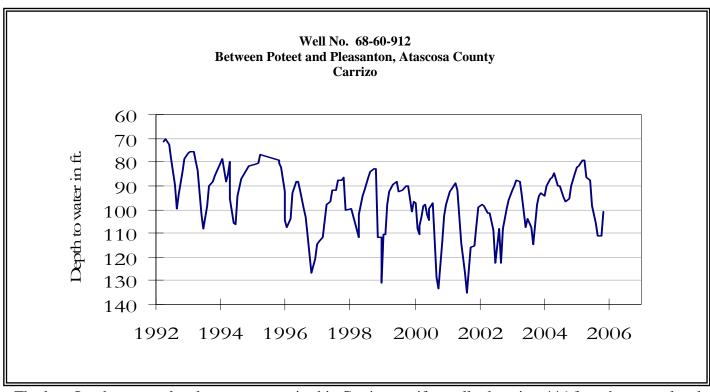
OCTOBER GROUND WATER LEVELS IN OBSERVATION WELLS



The late October water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 217.50 feet below land surface. This was 3.40 feet below last month's measurement, 6.84 feet below last year's measurement, and 82.00 feet below the initial measurement recorded in 1947.

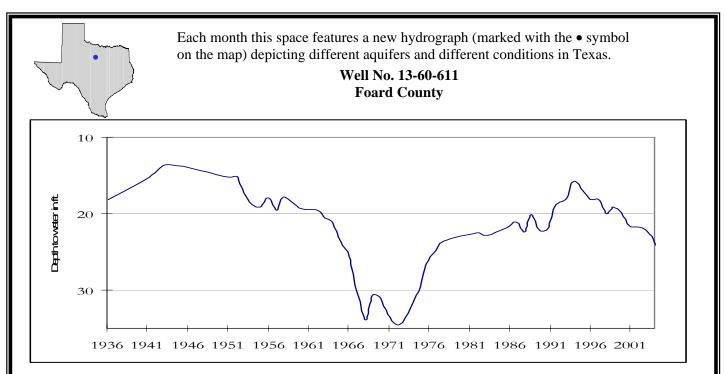


The late October water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 52.55 feet below land surface. This was 2.35 feet above last month's measurement, 10.80 feet below last year's measurement, and 5.91 feet below the initial measurement recorded in 1962.



The late October water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 100.85 feet below land surface. This measurement was 10.08 feet above last month's measurement, 10.59 feet below last year's measurement, and 65.49 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



This water level observation well, located 10 miles east of Crowell, at an elevation of 1312 feet ASL, was completed in the Seymour aquifer. Although currently unused, the well provided water for domestic use in the late sixties through early seventies. However, levels have since rebounded to within ten feet of the original level of 18 feet below land surface in 1936.

October, 2005

Water level measurements were not available for four of the seven key monitoring wells. Water levels rose in two of the monitoring wells since the beginning of October, ranging from 2.35 feet in the Bexar Co. J-17 well to 10.08 feet in the Atascosa Co. Carrizo well. The water level declined 3.4 feet in the Harris Co. Evangeline well. The J-17 well recorded a water level of 52.55 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