Texas Water Development Board





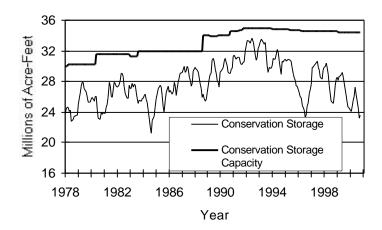
RESERVOIR STORAGE

October 2000

Near the end of October, the 77 reservoirs monitored for this report held 23.6 million acre-feet in conservation storage, or 68.5 percent of the conservation storage capacity of the State's major reservoirs. Despite rainfall through most of the state during the month, this is the fifth-lowest percentage of capacity recorded in 23 years, and the lowest recorded for the end of October. Storage increased by 0.5 million acre-feet (+1.3% of conservation storage capacity) during the month. Compared to October 1999, storage is down 1.68 million acrefeet (-4.9%). Statewide storage was on the rise at the end of the month

Storage increased during the month in all regions except in the East region. The largest percentage increases occurred in the South Central (+8.2%), Low Rolling Plains (+3.2%), and North Central (+3.0%) regions. Storage in the East region decreased by 1.4%. Two reservoirs (Twin Buttes Reservoir, 4.5%, and O.C. Fisher, 5.7%) held less than 10% of storage. Fort Phantom Hill Reservoir experienced the largest percentage increase at +20%.

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.

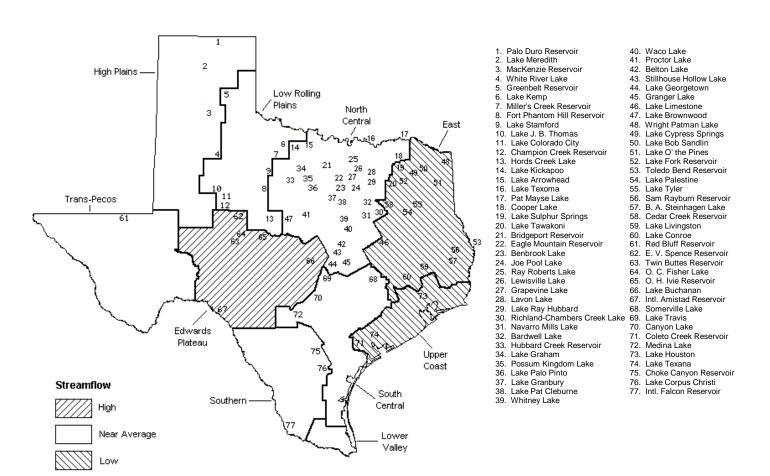
STREAMFLOW

Of 29 reporting index stations in October, computed 30-day mean flows were very high (0% - 5% exceedance) at 3 stations, high (5% - 30% exceedance) at 7 stations, near normal (30% - 70% exceedance) at 8 stations, low (70% - 95% exceedance) at 10 stations, and very low (95% - 100% exceedance) at 1 stations. In comparison to September, flows increased at 25 index stations, decreased at 3, and remained the same, with no flow recorded, at 1.

On a regional basis, flows in October were very high in the Edwards Plateau, low in the East and Upper Coast regions, and near normal elsewhere. Three of four reporting stations in the Edwards Plateau reported very high flows, and the fourth reported high flows. Seven of eight reporting index stations in the East and Upper Coast regions reported low or very low flows. One station, Hubbard Creek below Albany, reported zero flows in October.

OCTOBER STREAMFLOW CONDITIONS

Reservoirs Shown on Map



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 Repervoir	Map	Capacity	Late October	2000	2000		1999		
	Map	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)		(%)	
			I PLAINS	(0 /	(4010 1000)	(0)	(4010 1000)	(0)	
Palo Duro Reservoir	1	_	15,120	25	-630	-1	-6,831	-11	
Lake Meredith (Texas)	2	•	340,000	68	3,300	1	-65,031	-13	
Lake Meredith		300,000	340,000	00	3,300	_	-03,031	-13	
(Texas and Oklahoma)	(2)	779,560	340,000	44	3,300	0	-65,031	-8	
MacKenzie Reservoir	3		8,220	18	-10	0	-1,840	-4	
White River Lake	4	•	11,830	37	-310	-1	-5,810	-18	
TOTAL	-	639,000	375,170	5 <i>7</i>	2,350	-1	-79,512	-12	
IOIAL		039,000	373,170	39	2,350	U	-79,512	-12	
	LOW ROLLING PLAINS								
Greenbelt Reservoir	5		23,350	40	30	0	-2,420	-4	
Lake Kemp	6	-	110,600	35	9,300	3	-42,400	-13	
Miller's Creek Reservoir	7		6,350	23	-50	0	-5,530	-20	
Fort Phantom Hill Reservoir	8	70,030	36,490	52	14,150	20	15,670	22	
Lake Stamford	9		7,120	14	-40	0	20	0	
Lake J. B. Thomas	10	•	30,010	15	3,090	2	-3,110	-2	
Lake Colorado City	11	•	21,820	71	-280	-1	6,220	20	
Champion Creek Reservoir	12		4,420	11	40	0	-870	-2	
Hords Creek Lake	13	•	3,480	40	50	1	-319	-4	
TOTAL	13	811,720	243,640	30	26,290	3	-32,739	-4	
TOTAL		011,720	213,010	30	20,250	3	32,733	-	
		NORTH	I CENTRAL						
Lake Kickapoo	14	106,000	41,020	39	2,280	2	-13,974	-13	
Lake Arrowhead	15		93,810	36	2,510	1	-46,590	-18	
Lake Texoma	16	•	2,654,000	97	411,000	15	300,597	11	
Pat Mayse Lake	17		106,000	85	-500	0	2,778	2	
Cooper Lake	18	•	273,000	100	0	0	51,530	19	
Lake Sulphur Springs	19	17,710	15,160	86	-200	-1	1,013	6	
Lake Tawakoni	20	936,200	831,600	89	-19,000	-2	33,800	4	
Bridgeport Reservoir	21	374,830	166,360	44	-6,165	-2	-66,088	-18	
Eagle Mountain Reservoir	22		102,700	58	800	0	-37,413	-21	
Benbrook Lake	23	•	50,690	57	-220	0	-6,494	-7	
Joe Pool Lake	24	•	161,400	92	0	0	2,657	2	
Ray Roberts Lake	25	•	423,700	53	7,800	1	-208,201	-26	
Lewisville Lake	26	•	310,300	56	-100	0	-27,226	-5	
Grapevine Lake	27	187,700	109,600	58	100	0	-27,090	-14	
Lavon Lake	28		313,600	71	-12,300		15,013	3	
Lake Ray Hubbard	29		315,700	76	2,700	1	-97,720		
Richland-Chambers Creek Lake	30		1,017,000	92	-14,000	-1	25,026	2	
Navarro Mills Lake	31		46,030	82	-680	-1	3,762	7	
Bardwell Lake	32		44,810	84	-1,400	-3	6,248	12	
Hubbard Creek Reservoir	33		140,800	44	-3,000	-1	-74,700	-24	
Lake Graham	34		31,260	69	1,300	3	-10,730	-24	
Possum Kingdom Lake	35		429,600	78	-200	0	-7,400	-1	
Lake Palo Pinto	36		6,940	25	-550	-2	-25,079	-91	
Lake Granbury	37		114,600	84	-2,100	-2	-16,200	-12	
						-1			
Lake Pat Cleburne	38		20,160	80	-240		2,102	8	
Whitney Lake	39 40		483,200	78 95	-800 -7 400	0	52,700	8	
Waco Lake	40		123,100	85	-7,400 -880	-5 -2	7,820	- 29	
Proctor Lake	41		6,400	12	-880 -1 600	-2	-16,219 -22,601	-29 -5	
Belton Lake	42		367,100	84	-1,600	0	-22,601	-5 -4	
Stillhouse Hollow Lake	43		205,700	91	900	0	-9,178	-4 41	
Lake Georgetown	44		14,150	38	-840	-2	-15,175	-41	
Granger Lake	45		49,370	91	4,220	8	-85	0	
Lake Limestone	46		179,700	83	-6,800	-3	-2,900	-1	
Lake Brownwood	47	•	84,140	59	1,350	1	-4,910	-3	
TOTAL		11,908,050	9,332,700	78	355,985	3	-230,927	-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 October			
	Map	Capacity	Late October	2000	Late Septemb		1999			
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)		
	1									
			EAST							
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0		
Lake Cypress Springs	49	66,800	64,070	96	340	1	-2,590	-4		
Lake Bob Sandlin	50	202,300	190,900	94	-1,700	-1	6,600	3		
Lake O' the Pines	51	252,000	241,300	96	-5,200	-2	10,525	4		
Lake Fork Reservoir	52	635,200	612,500	96	-7,200	-1	15,100	2		
Toledo Bend Reservoir	53	4,472,900	3,581,000	80	-81,000	-2	17,000	0		
Lake Palestine	54	411,300	352,700	86	-2,300	-1	-4,800	-1		
Lake Tyler	55	73,700	53,100	72	-2,010	-3	-20,261	-27		
Sam Rayburn Reservoir	56	2,876,300	1,978,000	69	-67,000	-2	-236,000	-8		
B. A. Steinhagen Lake	57	94,200	89,320	95	2,340	2	585	1		
Cedar Creek Reservoir	58	637,050	522,000	82	-15,500	-2	-68,983	-11		
Lake Livingston	59	1,750,000	1,622,000	93	11,000	1	-36,000	-2		
Lake Conroe	60	429,900	345,600	80	-2,800	-1	-35,300	-8		
TOTAL		12,044,350	9,795,190	81	-171,030	-1	-354,124	-3		
		ΨЪλΝ	IS-PECOS							
Red Bluff Reservoir	61			18	6,930	2	-31,350	-10		
TOTAL	61	307,000	53,990 53,990	18	6,930	2	-31,350	-10		
TOTAL		307,000	33,330	10	0,330	_	31,330			
		EDWARI	S PLATEAU							
E. V. Spence Reservoir	62	488,760	88,610	18	4,630	1	24,590	5		
Twin Buttes Reservoir	63	177,800	8,020	5	7,666	4	-321	0		
O.C. Fisher Lake	64	119,200	10,280	9	3,440	3	1,684	1		
O. H. Ivie Reservoir	65	554,340	293,200	53	5,200	1	-47,100	-8		
Lake Buchanan	66	896,980	439,700	49	7,200	1	-179,475	-20		
Amistad Reservoir (Texas)	67	1,771,030	865,000	49	30,000	2	-183,000	-10		
Amistad Reservoir										
(Texas and Mexico)	(67)	3,151,300	1,028,000	33	33,000	1	-348,000	-11		
TOTAL		4,008,110	1,704,810	43	58,136	1	-383,622	-10		
SOUTH CENTRAL										
Somerville Lake	68		104,500	67	2,600	2	-36,204	-23		
Lake Travis	69	1,144,100	664,700	58	82,100	7	-187,132	-16		
Canyon Lake	70		384,000	100	49,300	13	20,234	5		
Coleto Creek Reservoir	71		23,700	68	-280	-1	-2,440	-7		
Medina Lake	72		133,800	53	28,200	11	-84,400	-33		
TOTAL		1,973,820	1,310,700	66	161,920	8	-289,942	-15		
UPPER COAST										
Lake Houston	73		99,470	77	-4,230	-3	-5,130	-4		
Lake Texana	74	157,900	123,800	78	4,600	3	-2,700	-2		
TOTAL		286,760	223,270	78	370	0	-7,830	-3		

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

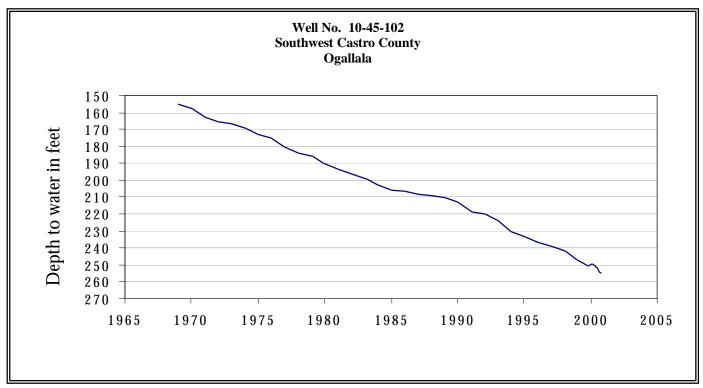
Name of Lake	No.	Conservation	Conservation		Change since		Change since			
or Reservoir	on	Storage	Storage		Late September		Late October			
	Map	Capacity	Late October 2000		2000		1999			
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)		
SOUTHERN										
Choke Canyon Reservoir	75	695,260	241,000	35	3,000	0	-70,000	-10		
Lake Corpus Christi	76	241,240	63,290	26	-5,900	-2	-109,910	-46		
Falcon Reservoir (Texas)	77	1,555,120	261,000	17	21,000	1	-95,000	-6		
Falcon Reservoir										
(Texas and Mexico)	(77)	2,653,290	298,000	11	24,000	1	-381,000	-14		
TOTAL		2,491,620	565,290	23	18,100	1	-274,910	-11		
STATE TOTAL		34,470,430	23,604,760	68	459,051	1	-1,684,956	-5		

Note:

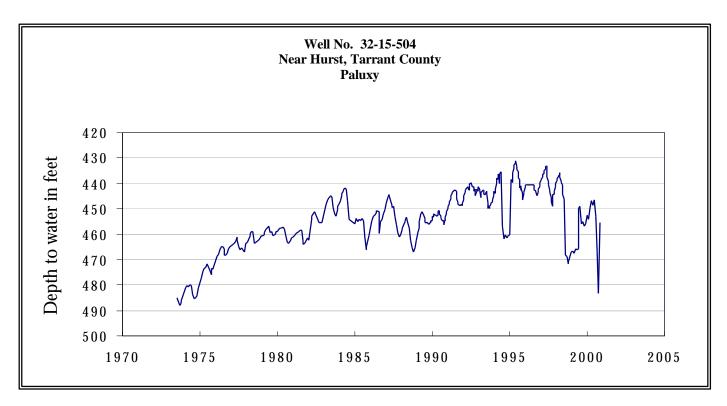
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

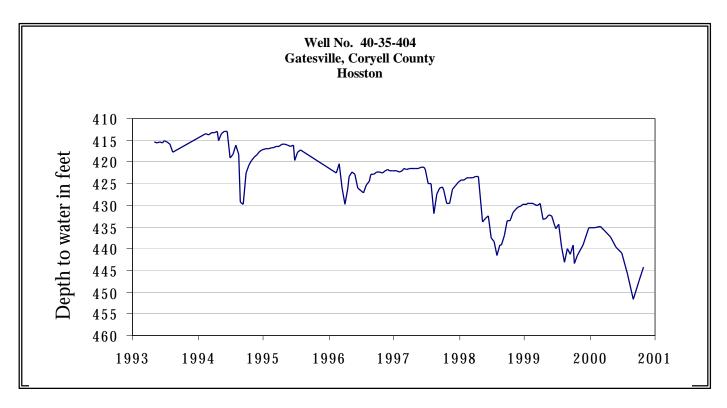
OCTOBER GROUND WATER LEVELS IN OBSERVATION WELLS



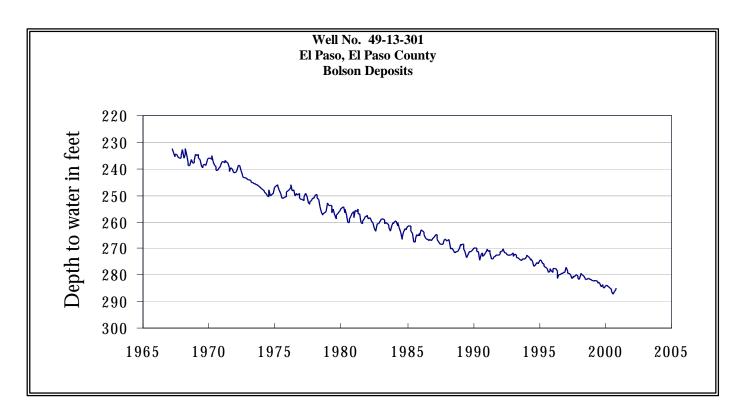
The late October water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 254.31 feet below land surface. This measurement was 0.27 feet above last month's measurement, 3.77 feet below last year's measurement, and 98.31 feet below the initial measurement recorded in 1968.



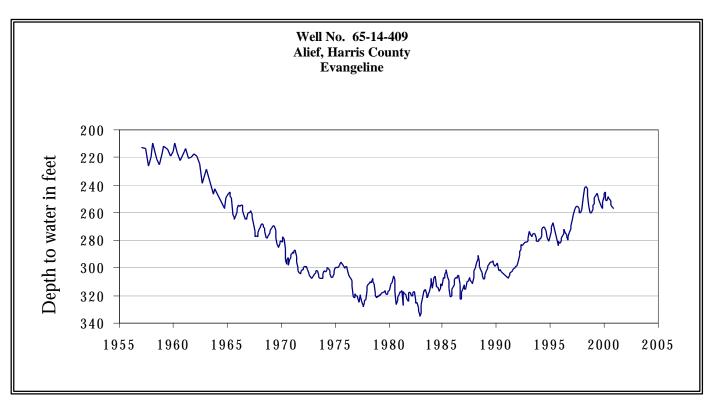
The late October water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 455.55 feet below land surface. This measurement was 27.87 feet above last month's measurement, 1.31 feet above last year's measurement, and 62.16 feet below the initial measurement recorded in 1953.



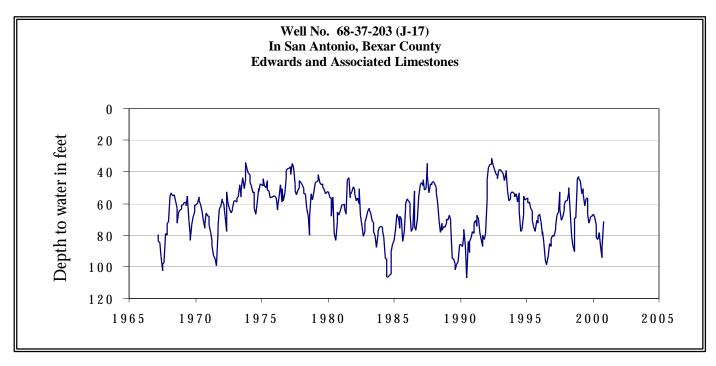
The late October water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 444.23 feet below land surface. This measurement was 3.31 feet above last month's measurement, 3.05 feet below last year's measurement, and 152.23 feet below the initial measurement recorded in 1955.



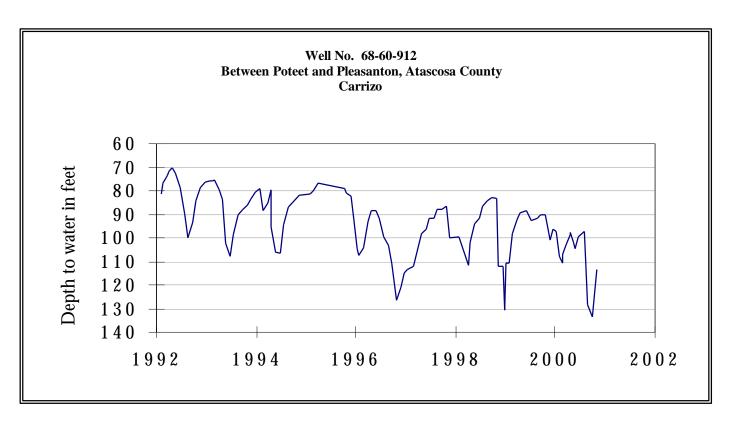
The late October water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 256.63 feet below land surface. This was 0.53 feet above last month's measurement, 0.52 feet below last year's measurement, and 53.10 feet below the initial measurement recorded in 1964.



The early October water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 256.63 feet below land surface. This was 0.57 feet below last month's measurement, 0.02 feet below last year's measurement, and 153.40 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 71.29 feet below land surface. This was 16.59 feet above last month's measurement, 2.50 feet below last year's measurement, and 11.67 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 113.57 feet below land surface. This measurement was 19.93 feet above last month's measurement, 2.5 feet below last year's measurement, and 32.32 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH

