Texas Water Development Board





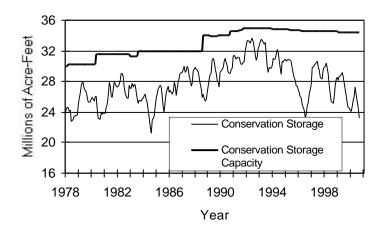
RESERVOIR STORAGE

September 2000

Near the end of September, the 77 reservoirs monitored for this report held 23.1 million acre-feet in conservation storage, or 67.1 percent of the conservation storage capacity of the State's major reservoirs. This is the second-lowest percentage of capacity recorded in 23 years. The record low occurred in September 1984. Storage decreased by 1.31 million acre-feet (-3.8% of conservation storage capacity) during the month. Compared to September 1999, storage is down 3.02 million acre-feet (-8.8%).

Conservation storage decreased during the month in all regions, with greatest percentage decreases occurring in the Upper Coast (-5.0%), North Central (-4.4%), and East (-4.3%) regions. The Southern region (-1.6%) experienced the smallest loss in conservation storage. Two monitored reservoirs (Cooper Lake and Wright Patman Lake), held 100 percent of conservation storage near the end of September, and two (Twin Buttes Reservoir, 0.2%, and O.C. Fisher, 5.7%) held less than 10%.

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.

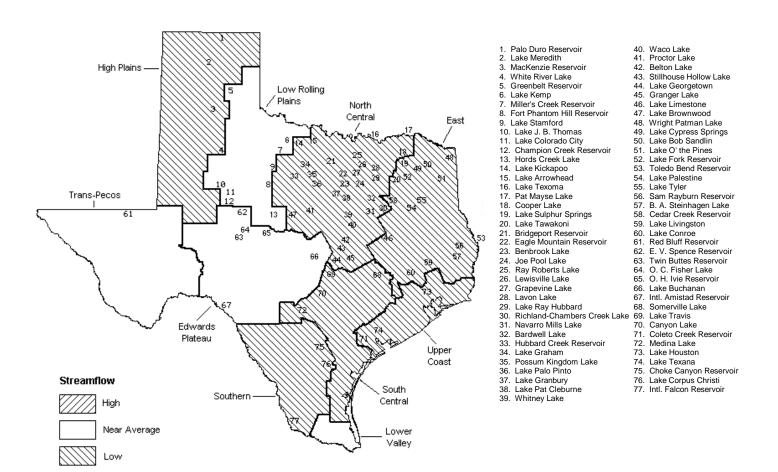
STREAMFLOW

Of 29 reporting index stations in September, computed 30-day mean flows were high (5% - 30% exceedance) at 1 station, near normal (30% - 70% exceedance) at 8 stations, low (70% - 95% exceedance) at 15 stations, and very low (95% - 100% exceedance) at 5 stations. The High Plains, East, South Central, and Upper Coast regions all have one or more stations reporting very low flow conditions. The lone station reporting high-flows this month was the Salt Fork Red River near Wellington in the Low Rolling Plains. In comparison to August, flows decreased at 13 index stations, increased at 12, and remained the same, with no flow recorded, at 3.

Flows in September were near normal only in the Low Rolling Plains and Edwards Plateau, and Trans-Pecos regions, and were below normal elsewhere. All reporting index stations in the East regions reported low or very low flows. Six stations reported zero flows in September.

SEPTEMBER 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 August		Late September		
	Map	Capacity	Late September 2000		2000		1999		
			(acre-feet)	(%)		(%)	(acre-feet)	(%)	
	1	HIG	H PLAINS						
Palo Duro Reservoir	1	60,900	15,750	26	-1,980	-3	-8,152	-13	
Lake Meredith (Texas)	2	•	•	67	-18,000	-4	-77,200	-15	
Lake Meredith									
(Texas and Oklahoma)	(2)	779,560	336,700	43	-18,000	-2	-77,200	-10	
MacKenzie Reservoir	3	46,250	8,230	18	-320	-1	-2,130	-5	
White River Lake	4	31,850	12,140	38	-940	-3	-6,130	-19	
TOTAL		639,000	372,820	58	-21,240	-3	-93,612	-15	
LOW ROLLING PLAINS									
Greenbelt Reservoir	5			40	-1,340	-2	-3,170	-5	
Lake Kemp	6	•		32	-17,800	-6	-63,600	-20	
Miller's Creek Reservoir	7	•		23	-850	-3	-6,010	-22	
Fort Phantom Hill Reservoir	8	•		32	-1,470	-2		1	
Lake Stamford	9	70,030		14	-1,170	-2	520 -440	-1	
Lake J. B. Thomas	10	52,700		13		-2		-3	
Lake Colorado City		202,300			-3,190		-5,720		
-	11	-		72	-1,540	- 5	10,320	34	
Champion Creek Reservoir	12	•		11	-290	-1	-1,740	-4	
Hords Creek Lake	13	•		40 27	-230	-3 -3	-557	-6 -9	
TOTAL		811,720	217,350	21	-27,880	-3	-70,397	-9	
		NORT	H CENTRAL						
Lake Kickapoo	14	106,000	38,740	37	-4,040	-4	-17,976	-17	
Lake Arrowhead	15	262,100	91,300	35	-7,440	-3	-54,000	-21	
Lake Texoma	16	2,722,300	2,243,000	82	-157,685	-6	-163,787	-6	
Pat Mayse Lake	17	124,500	106,500	86	-4,690	-4	790	1	
Cooper Lake	18	273,000	273,000	100	0	0	46,716	17	
Lake Sulphur Springs	19	17,710	15,360	87	-855	-5	809	5	
Lake Tawakoni	20	936,200	850,600	91	-40,300	-4	21,000	2	
Bridgeport Reservoir	21	374,830	172,525	46	-15,150	-4	-91,463	-24	
Eagle Mountain Reservoir	22	178,380	101,900	57	-8,728	-5	-36,267	-20	
Benbrook Lake	23	88,200	50,910	58	-11,070	-13	-8,565	-10	
Joe Pool Lake	24	175,800	161,400	92	-6,200	-4	-318	0	
Ray Roberts Lake	25	798,760	415,900	52	-36,721	-5	-237,991	-30	
Lewisville Lake	26	555,000	310,400	56	-9,500	-2	-46,370	-8	
Grapevine Lake	27	187,700	109,500	58	-6,500	-3	-31,205	-17	
Lavon Lake	28	443,800	325,900	73	-31,575	-7	5,973	1	
Lake Ray Hubbard	29	413,420	313,000	76	-24,200	-6	-100,420	-24	
Richland-Chambers Creek Lake	30	1,103,820	1,031,000	93	-34,005	-3	12,965	1	
Navarro Mills Lake	31	55,810	46,710	84	-1,881	-3	2,571	5	
Bardwell Lake	32	53,580	46,210	86	-2,330	-4	1,739	3	
Hubbard Creek Reservoir	33	317,800	143,800	45	-9,600	-3	-78,500	-25	
Lake Graham	34	45,000	29,960	67	-2,220	-5	-14,270	-32	
Possum Kingdom Lake	35	551,820	429,800	78	-26,900	-5	-16,200	-3	
Lake Palo Pinto	36	27,650	7,490	27	-2,170	-8	-26,352	-95	
Lake Granbury	37	135,680	116,700	86	-2,770	-2	-14,387	-11	
Lake Pat Cleburne	38	25,300	20,400	81	-1,729	-7	1,430	6	
Whitney Lake	39	622,800	484,000	78	-38,100	-6	51,849	8	
Waco Lake	40	144,500	130,500	90	-4,200	-3	4,920	3	
Proctor Lake	41	55,590	7,280	13	-1,890	-3	-17,324	-31	
Belton Lake	42			85	-6,400	-1	-33,430	-8	
Stillhouse Hollow Lake	43			91	-472	0	-12,862	-6	
Lake Georgetown	44	37,010	14,990	41	-2,600	-7	-16,810	-45	
Granger Lake	45	54,280	45,150	83	-1,570	-3	-5,133	-9	
Lake Limestone	46	215,750	186,500	86	-10,100	-5	-1,700	-1	
Lake Brownwood	47	143,400	82,790	58	-5,970	-4	-10,000	-7	
TOTAL		11,908,050	8,976,715	75	-519,561	-4	-884,568	-7	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation		Change since		Change since		
or Reservoir	on	Storage	Storage		Late August		Late September		
	Map	Capacity	Late September	2000	2000	-	1999		
	_	(acre-feet)	_	(%)	(acre-feet)	(%)		(%)	
	I	1		L					
			EAST						
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0	
Lake Cypress Springs	49	66,800	63,730	95	-1,530	-2	-3,070	-5	
Lake Bob Sandlin	50	202,300	192,600	95	-9,700	-5	13,855	7	
Lake O' the Pines	51	252,000	246,500	98	-5,500	-2	85	0	
Lake Fork Reservoir	52	635,200	619,700	98	-15,500	-2	10,200	2	
Toledo Bend Reservoir	53	4,472,900	3,662,000	82	-279,000	-6	31,000	1	
Lake Palestine	54	411,300	355,000	86	-19,200	-5	-13,600	-3	
Lake Tyler	55	73,700	55,110	75	-5,389	-7	-18,590	-25	
Sam Rayburn Reservoir	56	2,876,300	2,045,000	71	-84,000	-3	-315,819	-11	
B. A. Steinhagen Lake	57	94,200	86,980	92	689	1	-1,886	-2	
Cedar Creek Reservoir	58	637,050	537,500	84	-57,183	-9	-79,322	-12	
Lake Livingston	59	1,750,000	1,611,000	92	-36,000	-2	-73,000	-4	
Lake Conroe	60	429,900	348,400	81	-4,600	-1	-40,200	-9	
TOTAL		12,044,350	9,966,220	83	-516,913	-4	-490,347	-4	
		mp a i	NG DEGOG						
- 1 -1 66			NS-PECOS			_	24 262		
Red Bluff Reservoir	61	-		15	-5,280	-2 -2	-31,960 -31,960	-10	
TOTAL		307,000	47,060	15	-5,280	-2	-31,960	-10	
		EDWAR	DS PLATEAU						
E. V. Spence Reservoir	62	488,760	83,980	17	-5,170	-1	17,200	4	
Twin Buttes Reservoir	63	177,800	354	0	-759	0	-9,816	-6	
O.C. Fisher Lake	64	119,200	6,840	6	-1,040	-1	-2,183	-2	
O. H. Ivie Reservoir	65	554,340	288,000	52	-13,700	-2	-61,300	-11	
Lake Buchanan	66	896,980	432,500	48	-66,800	-7	-285,339	-32	
Amistad Reservoir (Texas)	67	1,771,030	835,000	47	-28,000	-2	-230,000	-13	
Amistad Reservoir									
(Texas and Mexico)	(67)	3,151,300	995,000	32	-34,000	-1	-381,000	-12	
TOTAL		4,008,110	1,646,674	41	-115,469	-3	-571,438	-14	
SOUTH CENTRAL									
Somerville Lake	60			66	_3 570	_2	_41 020	-26	
Lake Travis	68 69	•		51	-3,579 -29,600	-2 -3	-41,028 -358,557	-26 -31	
Canyon Lake	70			87	-1,943	-1	-34,278	-3± -9	
			·						
Coleto Creek Reservoir Medina Lake	71 72		23,980 105,600	68 42	-1,930 -12,200	-6 -5	-2,760 -121,000	-8 -48	
TOTAL	, 2	1,973,820		58	-49,252	-2		-28	
101411		1,3/3,020	1,140,700	56	-49,232	-2	-331,023	-20	
UPPER COAST									
Lake Houston	73	128,860	103,700	80	-2,900	-2	-6,400	-5	
Lake Texana	74	157,900	119,200	75	-11,300	-7	-17,100	-11	
TOTAL		286,760	222,900	78	-14,200	-5	-23,500	-8	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

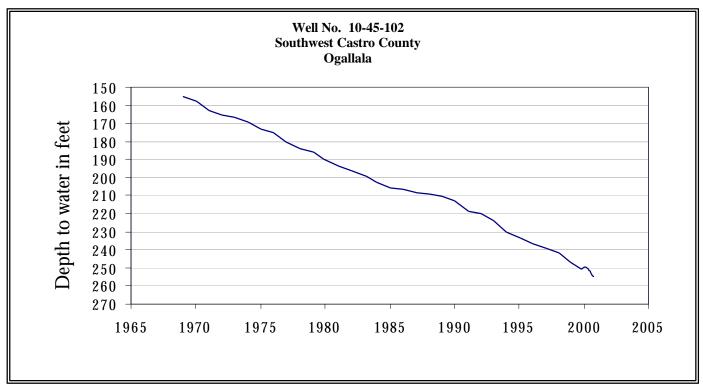
Name of Lake	No.	Conservation	Conservation		Change since		Change since		
or Reservoir	on	Storage	Storage		Late August		Late September		
	Map	Capacity	Late September 2000		2000		1999		
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
SOUTHERN									
Choke Canyon Reservoir	75	695,260	238,000	34	-10,000	-1	-81,945	-12	
Lake Corpus Christi	76	241,240	69,190	29	-13,800	-6	-114,643	-48	
Falcon Reservoir (Texas)	77	1,555,120	240,000	15	-16,000	-1	-101,000	-6	
Falcon Reservoir									
(Texas and Mexico)	(77)	2,653,290	274,000	10	-21,000	-1	-370,000	-14	
TOTAL		2,491,620	547,190	22	-39,800	-2	-297,588	-12	
STATE TOTAL		34,470,430	23,145,709	67	-1,309,595	-4	-3,021,033	-9	

Note:

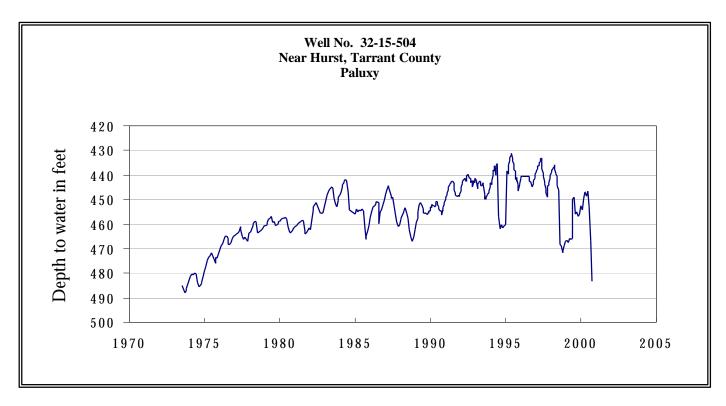
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

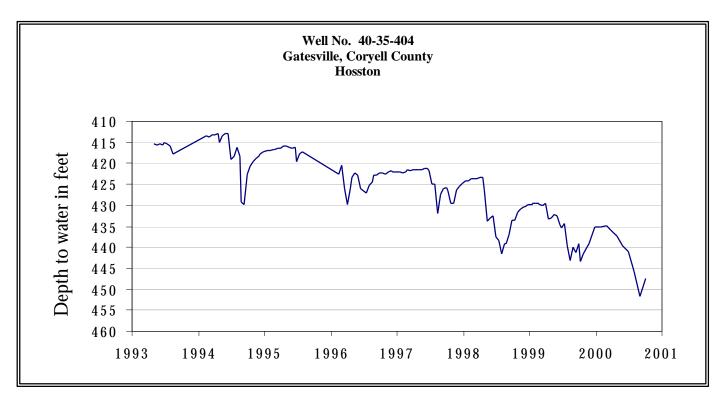
SEPTEMBER GROUND WATER LEVELS IN OBSERVATION WELLS



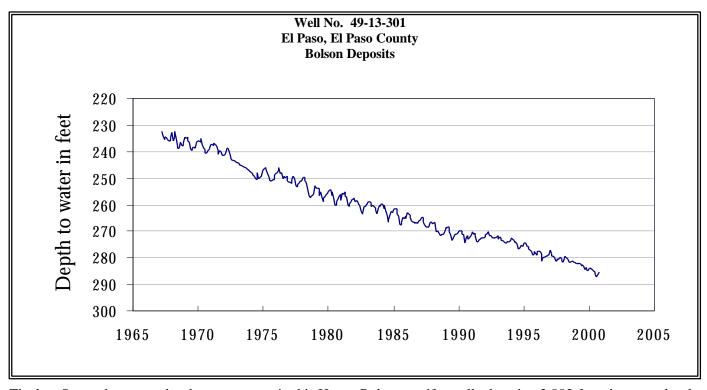
The late September water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 254.8 feet below land surface. This measurement was 1.2 feet below last month's measurement and 98.8 feet below the initial measurement recorded in 1968.



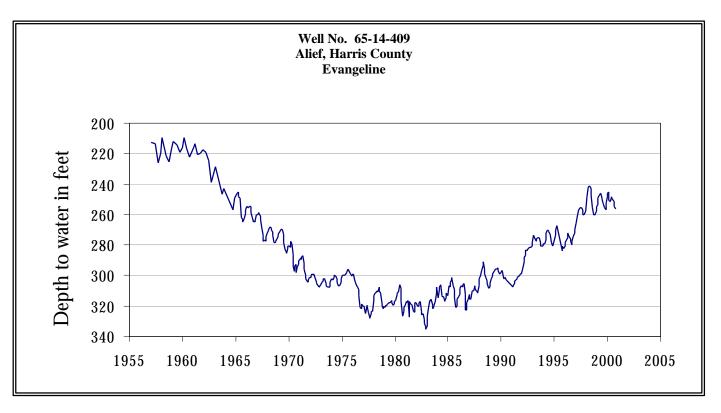
The late September water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 466.46 feet below land surface. This measurement was 13.8 feet below last month's measurement, 10.07 feet above last year's measurement, and 73.32 feet below the initial measurement recorded in 1953.



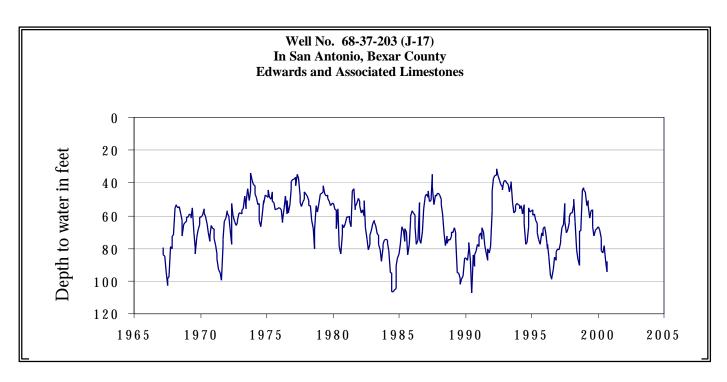
The late September water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 451.66 feet below land surface. This measurement was 1.91 feet below last month's measurement, 8.04 feet below last year's measurement, and 155.66 feet below the initial measurement recorded in 1955.



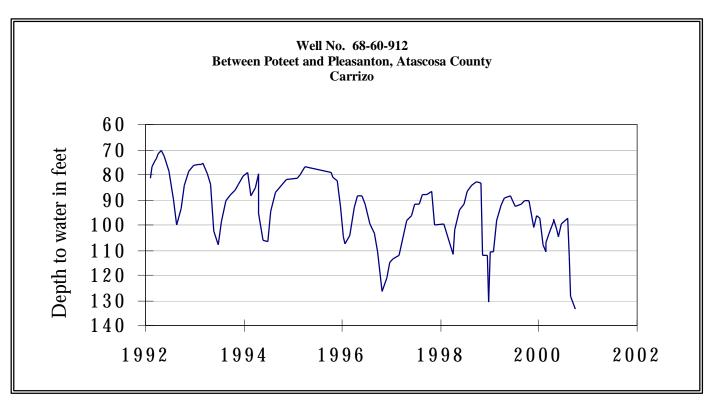
The late September water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 286.29 feet below land surface. This was 0.84 feet above last month's measurement, 2.01 feet below last year's measurement, and 54.39 feet below the initial measurement recorded in 1964.



The late September water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 254.42 feet below land surface. This was 3.3 feet below last month's measurement, 1.32 feet below last year's measurement, and 151.19 feet below the initial measurement recorded in 1947.



The late September water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 94.65 feet below land surface. This was 6.32 feet below last month's measurement, 27.65 feet below last year's measurement, and 35.03 feet below the initial measurement recorded in 1962.



The late September water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 128.28 feet below land surface. This measurement was 15.5 feet below last month's measurement, 36.48 feet above last year's measurement, and 47.03 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH

