Texas Water Development Board





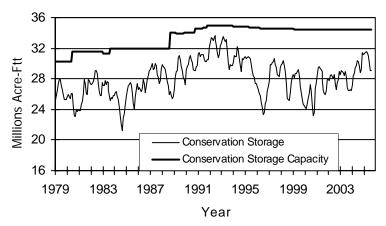
RESERVOIR STORAGE

August 2005

Near the end of August, the 77 reservoirs monitored for this report held 29.06 million acre-feet in conservation storage, or 84 percent of the conservation storage capacity of the state's major reservoirs. Storage decreased during the month by 0.06 million acre-feet (-0.2% of conservation storage capacity). Compared to last year, storage decreased by 635,150 acre-feet (-2%).

Storage was near capacity in the Upper Coast Region (94%), South Central Region (92%), Edwards Plateau Region (91%), and North Central Region (90%), but lower than one-third of capacity in the High Plains Region (29%) and Trans-Pecos Region (31%). Storage was at 100% in 8 reservoirs, and the Texas share of Amistad remained above its capacity, at 133%. Compared to this time last year, the storage increased in five regions with the greatest increase in the Edwards Plateau Region and Low Rolling Plains Region (20%), and decreased in four regions with the sharpest decrease in the East Region (-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.

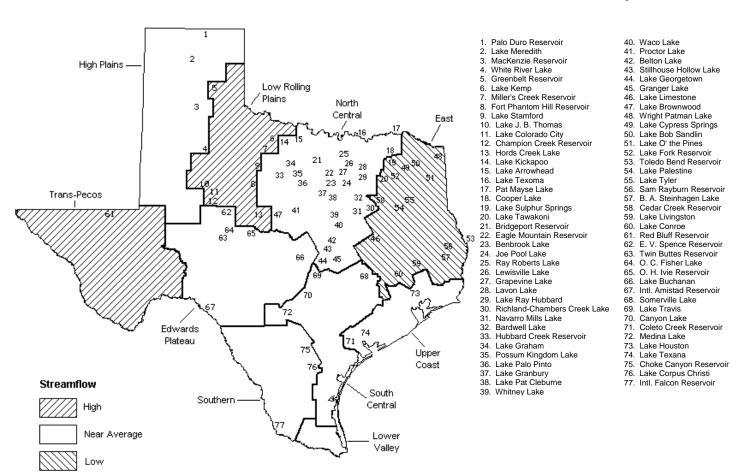
STREAMFLOW

Of 29 reporting index stations in August, computed 31-day mean flows were very high (<5%) at 2 stations, high (5% - 30%) at 6 stations, low (70% - 95%) at 8 stations, very low (>5%) at 1 station and near normal (30% - 70% exceedance) at the remaining 12 stations. Compared to July, flows have increased at 15 index stations and decreased at 14 stations.

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

AUGUST 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 July		Late August					
or Reperver	Map	Capacity	-	Late Aug. 2005			2004					
		(acre-feet)	(acre-feet)	(%)	2005 (acre-feet)	(%)		(%)				
	1		PLAINS	, , ,	,	(- ,	,	, , ,				
Palo Duro Reservoir	1	_	2,690	4	-280	0	-2,600	-4				
Lake Meredith (Texas)	2	•	167,410	33	-4,620	-1	14,680	3				
Lake Meredith	_	300,000			-,	_		•				
(Texas and Oklahoma)	(2)	779,560	167,410	21	-4,620	-1	14,680	2				
MacKenzie Reservoir	3		10,430	23	0	0	3,090	7				
White River Lake	4	31,850	7,570	24	-330	-1	450	1				
TOTAL		639,000	188,100	29	-5,230	-1	15,620	2				
LOW ROLLING PLAINS												
Greenbelt Reservoir	5		23,910	41	-760	-1	1,130	2				
Lake Kemp	6	•	253,710	79	45,710	14	52,260	16				
Miller's Creek Reservoir	7		27,890	100	7,910	28	12,420	45				
Fort Phantom Hill Reservoir	8	•	57,400	82	3,430	5	17,590	25				
Lake Stamford	9		52,700	100	19,440	37	21,260	40				
Lake J. B. Thomas	10		69,380	34	19,740	10	44,520	22				
Lake Colorado City	11	• • • • •	30,210	98	2,460	8	8,380	27				
Champion Creek Reservoir	12	•	5,960	14	1,250	3	1,600	4				
Hords Creek Lake	13	•	7,630	89	210	2	4,180	49				
TOTAL		811,720	528,790	65	99,390	12	163,340	20				
			CENTRAL									
Lake Kickapoo	14	•	100,810	95	40,390	38	30,790	29				
Lake Arrowhead	15	•	215,450	82	41,400	16	62,640	24				
Lake Texoma	16		2,463,800	91	205,860	8	-100,220	-4				
Pat Mayse Lake	17	•	106,270	85	-3,620	-3	-6,930	-6				
Cooper Lake	18	273,000	203,010	74	-18,530	-7	18,120	7				
Lake Sulphur Springs	19	17,710	15,000	85	-570	-3	-1,730	-10				
Lake Tawakoni	20	936,200	724,000	77	-39,700	-4	-141,400	-15				
Bridgeport Reservoir	21	•	299,400	80	-10,600	-3	-46,900	-13				
Eagle Mountain Reservoir	22		150,100	84	-7,800	-4	-13,900	-8				
Benbrook Lake	23	•	61,010	69	-12,160		-16,280	-18				
Joe Pool Lake	24	•	165,560	94	-4,480	-3	-10,240	-6				
Ray Roberts Lake	25	•	763,240	96	-1,420	0	-35,520	-4				
Lewisville Lake Grapevine Lake	26 27	•	545,210	98 84	-9,790 4,930	-2 -3	-9,790	-2 -15				
Lavon Lake	28	443,800	156,760 358,030	81	-4,930 -30,110	-3 -7	-27,430 -67,930	-15				
Lake Ray Hubbard	20 29	413,420	380,300	92	-7,600	-2	-16,400	-15				
Richland-Chambers Creek Lake				95	-25,000	-2		-5				
Navarro Mills Lake	30 31		1,052,000 48,130	86	-1,710	-3	-51,820 -7,680	-14				
Bardwell Lake	32		43,110	80	-1,690	-3		-7				
Hubbard Creek Reservoir	33		201,720	63	18,480	6	74,900	24				
Lake Graham	34		38,370	85	920	2	6,930	15				
Possum Kingdom Lake	35		544,600	99	81,200	15	4,300	1				
Lake Palo Pinto	36		20,230	73	-1,190	-4	-60	0				
Lake Granbury	37		133,200	98	7,800	6	0	0				
Lake Pat Cleburne	38		21,730	86	-1,020	-4	-3,570	-14				
Whitney Lake	39		617,570	99	73,040	12	-5,230	-1				
Waco Lake	40		144,500	100	0	0	0	0				
Proctor Lake	41		45,150	81	-1,540	-3	-10,440	-19				
Belton Lake	42		434,500	100	8,870	2	0	0				
Stillhouse Hollow Lake	43		226,060	100	0	0	0	0				
Lake Georgetown	44		32,830	89	440	1	-1,600	-4				
Granger Lake	45		54,280	100	0	0	0	0				
Lake Limestone	46		195,940	91	1,990	1	-12,980	-6				
Lake Brownwood	47		132,190	92	9,400	7	-350	0				
TOTAL		11,908,050	10,694,060	90	306,330	3	-394,230	-3				

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

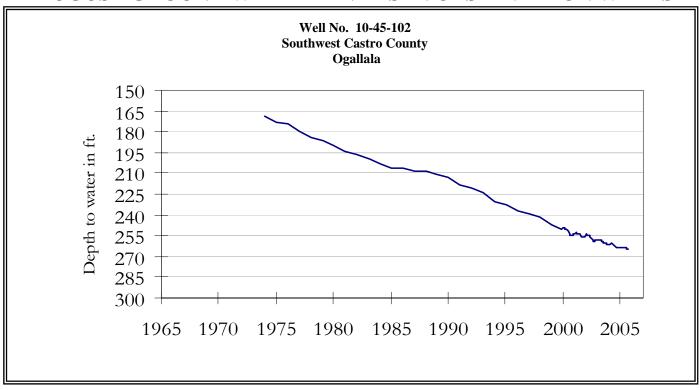
Name of Lake	No.	Conservation	Conservation		Change since		Change since	
or Reservoir	on	Storage	Storage		Late July		Late August	
	Map	Capacity	Late Aug. 2005		2005		2004	
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
	I	1						
			EAST					
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0
Lake Cypress Springs	49	66,800	61,750	92	-1,750	-3	-4,090	-6
Lake Bob Sandlin	50	202,300	175,700	87	-5,900	-3	-21,100	-10
Lake O' the Pines	51	252,000	202,760	80	-8,610	-3	-49,240	-20
Lake Fork Reservoir	52	635,200	613,200	97	-18,100	-3	-22,000	-3
Toledo Bend Reservoir	53	4,472,900	3,228,000	72	-350,000	-8	-801,000	-18
Lake Palestine	54	-	372,720	91	-18,000	-4	-31,800	-8
Lake Tyler	55	73,700	68,040	92	-2,620	-4	-5,660	-8
Sam Rayburn Reservoir	56	2,876,300	2,509,940	87	-148,590	-5	-146,400	-5
B. A. Steinhagen Lake	57	94,200	91,010	97	21,440	23	17,510	19
Cedar Creek Reservoir	58	637,050	576,300	90	-22,300	-4	-41,000	-6
Lake Livingston	59	1,750,000	1,712,000	98	-5,000	0	-38,000	-2
Lake Conroe	60	429,900	392,300	91	-2,000	0	-9,700	-2
TOTAL		12,044,350	10,146,420	84	-561,430	-5	-1,152,480	-10
		TTD A M	S-PECOS					
Red Bluff Reservoir	61		95,950	31	240	0	20 620	10
	91	307,000	•	31		0	29,620	
TOTAL		307,000	95,950	31	240	U	29,620	10
		EDWARD	S PLATEAU					
E. V. Spence Reservoir	62	488,760	102,900	21	36,310	7	58,140	12
Twin Buttes Reservoir	63		43,840	25	4,120	2	39,280	22
O.C. Fisher Lake	64		16,700	14	10,930	9	14,970	13
O. H. Ivie Reservoir	65	554,340	309,300	56	7,600	1	138,220	25
Lake Buchanan	66	896,980	839,990	94	10,750	1	-35,010	-4
Amistad Reservoir (Texas)	67	1,771,030	2,354,000	133	0	0	578,000	33
Amistad Reservoir								
(Texas and Mexico)	(67)	3,151,300	2,791,000	89	36,000	1	725,000	23
TOTAL		4,008,110	3,666,730	91	69,710	2	793,600	20
			CENTRAL					
Somerville Lake	68	155,060	142,610	92	-3,010	-2	-12,000	-8
Lake Travis	69	1,144,100	1,033,800	90	20,400	2	-110,300	-10
Canyon Lake	70	385,600	377,610	98	-1,980	-1	-6,710	-2
Coleto Creek Reservoir	71	35,060	29,080	83	-1,860	-5	-1,940	-6
Medina Lake	72	254,000	234,100	92	-5,000	-2	-19,900	-8
TOTAL		1,973,820	1,817,200	92	8,550	0	-150,850	-8
		UPPE	R COAST					
Lake Houston	73		128,860	100	0	0	0	0
Lake Texana	74		141,520	90	-13,010	-8	-11,810	-7
TOTAL		286,760	270,380	94	-13,010	-5	-11,810	-4
dele deservice			JTHERN	0.4	15.000	•	20.050	_
Choke Canyon Reservoir	75		656,000	94 76	-17,000	-2	-39,260 57,700	-6
Lake Corpus Christi	76	241,240	182,400	76 52	-20,300	-8	-57,700	-24
Falcon Reservoir (Texas)	77	1,555,120	811,000	52	72,000	5	169,000	11
Falcon Reservoir	(77)	2 (52 000	1 306 000	F.0	140 000	-	204 222	
(Texas and Mexico)	(77)	2,653,290	1,326,000	50	140,000	5 1	-284,000	-11
TOTAL		2,491,620	1,649,400	66	34,700	1	72,040	3
STATE TOTAL		34,470,430	29,057,030	84	-60,750	0	-635,150	-2

Note:

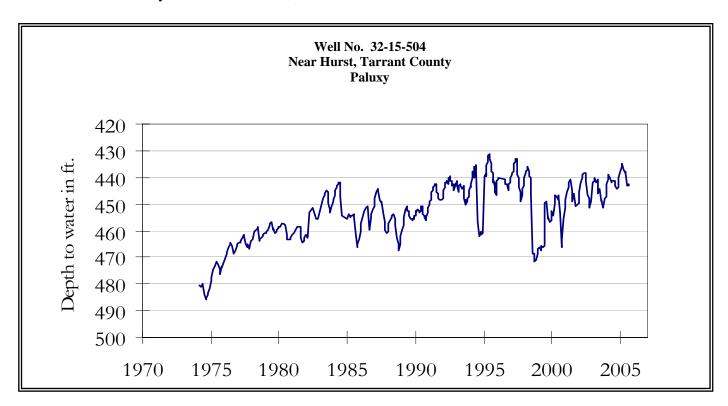
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

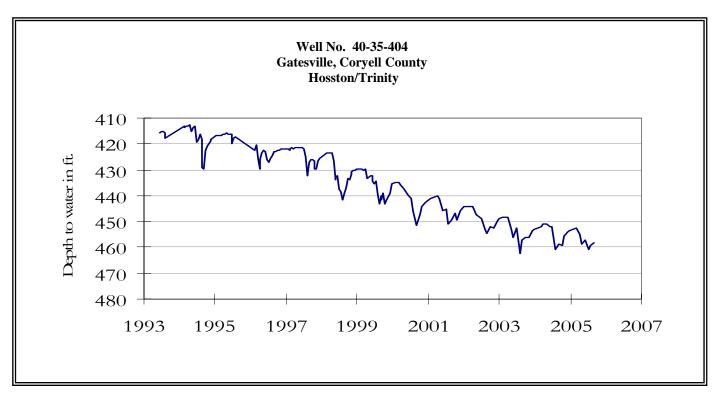
AUGUST GROUND WATER LEVELS IN OBSERVATION WELLS



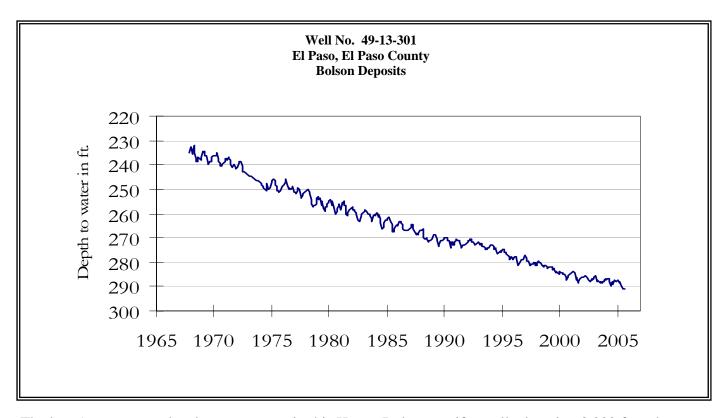
The late August water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 264.81 feet below land surface. This measurement was 0.41 feet below last month's measurement, 1.31 feet below last year's measurement, and 108.81 feet below the initial measurement recorded in 1968.



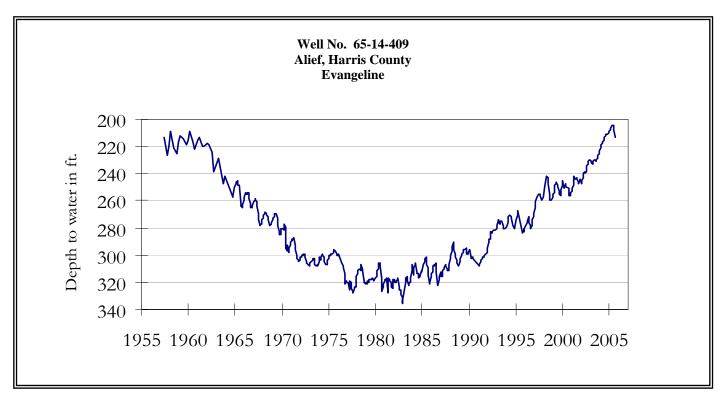
The late August water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 442.93 feet below land surface. This measurement was 0.48 feet below last month's measurement, 0.27 feet above last year's measurement, and 64.93 feet below the initial measurement recorded in 1953.



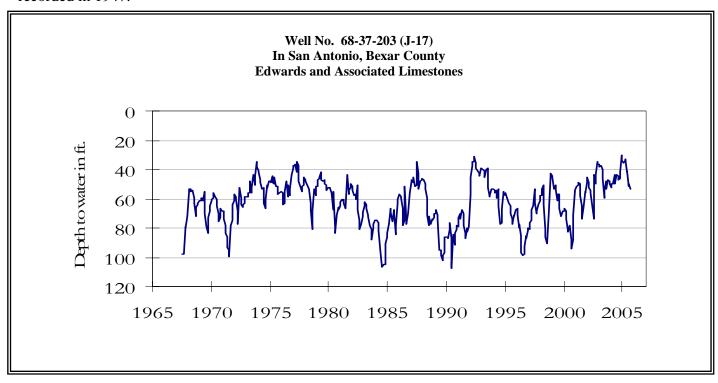
The late August water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 458.46 feet below land surface. This water level was 0.81 feet above last month's measurement, 0.44 feet above last year's measurement, and 166.46 feet below the initial measurement recorded in 1955.



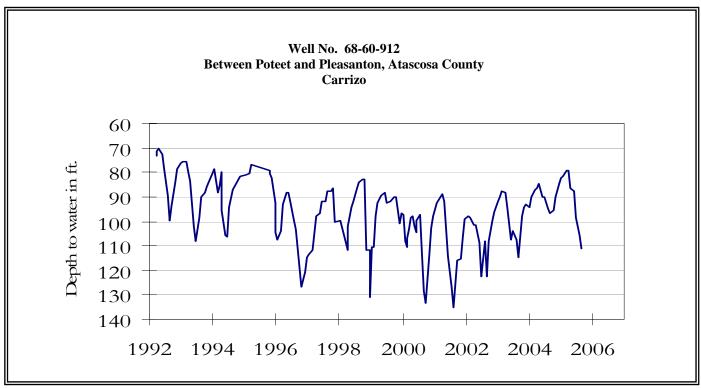
The late August water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 290.97 feet below land surface. This was 0.13 feet below last month's measurement, 1.77 feet below last year's measurement, and 59.07 feet below the initial measurement recorded in 1964.



The late August water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 213.01 feet below land surface. This was 0.16 feet below last month's measurement, 2.21 feet below last year's measurement, and 77.51 feet below the initial measurement recorded in 1947.

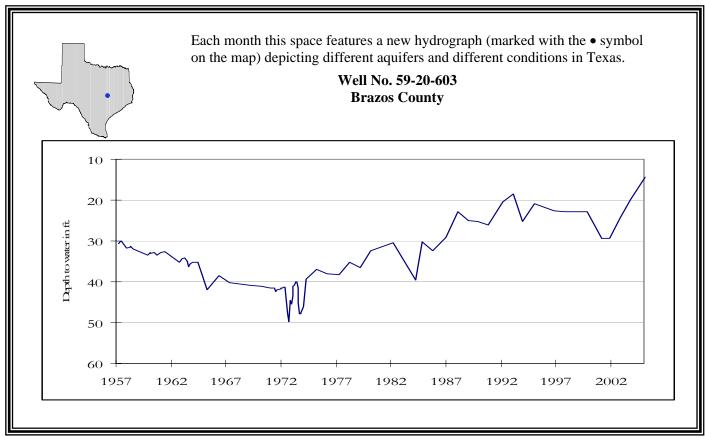


The late August water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 53.26 feet below land surface. This was 3.88 feet below last month's measurement, 6.26 feet below last year's measurement, and 6.62 feet below the initial measurement recorded in 1962.



The late August water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 111.09 feet below land surface. This measurement was 5.63 feet below last month's measurement, 14.26 feet below last year's measurement, and 75.73 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



This water level observation well, located 5 miles west of Bryan, at an elevation of 241 feet ASL, was completed in the Brazos River Alluvium aquifer. Recharge to the aquifer is chiefly by precipitation on the flood plain surface. Water-level data indicate that the aquifer is readily replenished by rainfall.

August, 2005

Water levels declined in six of the seven key monitoring wells since the beginning of August, ranging from 0.13 feet in the El Paso Co. (Bolson Deposits) well to 5.63 feet in the Atascosa Co. Carrizo well. The water level rose 0.81 feet in the Coryell Co. Hosston/Trinity well. The J-17 well recorded a water level of 53.26 feet below land surface, a decline of 3.88 feet from the July 2005 measurement. 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