Texas Water Development Board



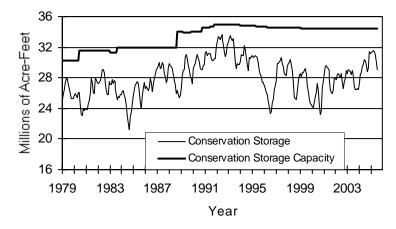


RESERVOIR STORAGE July 2005

Near the end of July, the 77 reservoirs monitored for this report held 29.12 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 1.05 million acre-feet (3% of conservation storage capacity). Compared to last year, storage decreased by 1.12 million acre-feet (3.27%).

Storage was near capacity in the Upper Coast Region (99%), South Central Region (92%), and Edwards Plateau Region (90%), but slightly lower than one-third of capacity in the High Plains Region (30%) and Trans-Pecos Region (31%). Storage was at 100% in 6 reservoirs, and the Texas share of Amistad continued to remain above its capacity, at 133%. Compared to this time last year, the storage increased in four regions, with the greatest increase in the Edwards Plateau Region (+21%) and decreased in five regions, with the steepest decline 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.

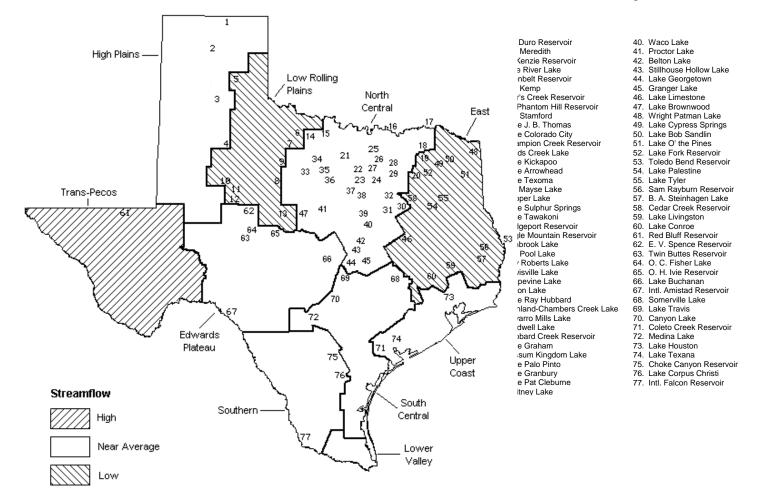
STREAMFLOW

Of 29 reporting index stations in July, computed 30-day mean flows were high (5% - 30%) at 3 stations, low (70% - 95%) at 11 station, and near normal (30% - 70% exceedance) at the remaining 15 stations. Compared to June, flows have increased at 8 index stations and decreased at 21 stations.

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

JULY STREAMFLOW CONDITIONS

Reservoirs Shown on Map



CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservat	ion	Change sind	ce	Change sin	ce
or Reservoir	on Storage		Storage		Late June		Late July	
	Map	Capacity	Late Jul.		2005		2004	;
	1	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)		(%)
			IPLAINS					
Palo Duro Reservoir	1	60,900	2,970	5	-360	-1	-3,240	-5
Lake Meredith (Texas)	2	500,000	172,030	34	-10,130	-2	28,370	6
Lake Meredith								
(Texas and Oklahoma)	(2)	779,560	172,030	22	-10,130	-1	28,370	4
MacKenzie Reservoir	3	46,250	10,430	23	-220	0	2,890	6
White River Lake	4	31,850	7,900	25	-620	-2	950	3
TOTAL		639,000	193,330	30	-11,330	-2	28,970	5
		LOW ROL	LING PLAINS	3				
Greenbelt Reservoir	5	58,200	24,670	42	-1,260	-2	1,060	2
Lake Kemp	6	319,600	208,000	65	-14,600	-5	35,720	11
Miller's Creek Reservoir	7	27,890	19,980	72	-520	-2	5,670	20
Fort Phantom Hill Reservoir	8	70,030	53,970	77	-4,080	-6	22,800	33
Lake Stamford	9	52,700	33,260	63	-1,820	-3	1,200	2
Lake J. B. Thomas	10	202,300	49,640	25	-3,460	-2	28,380	14
Lake Colorado City	11	30,800	27,750	90	-860	-3	6,020	20
Champion Creek Reservoir	12	41,600	4,710	11	-120	0	1,470	4
Hords Creek Lake	13	8,600	7,420	86	-330	-4	4,640	54
TOTAL		811,720	429,400	53	-27,050	-3	106,960	13
		NORTH	I CENTRAL					
Lake Kickapoo	14	106,000	60,420	57	-2,760	-3	-5,890	-6
Lake Arrowhead	15	262,100	174,050	66	-8,550	-3	47,250	18
Lake Texoma	16	2,722,300	2,257,940	83	-29,200	-1	-451,830	-17
Pat Mayse Lake	17	124,500	109,890	88	-3,660	-3	-7,220	-6
Cooper Lake	18	273,000	221,540	81	-20,310	-7	23,120	8
Lake Sulphur Springs	19	17,710	15,570	88	-360	-2	-1,080	-6
Lake Tawakoni	20	936,200	763,700	82	-38,800	-4	-108,500	-12
Bridgeport Reservoir	21	374,830	310,000	83	-21,800	-6	-29,000	-8
Eagle Mountain Reservoir	22	178,380	157,900	89	-2,600	-1	-16,000	-9
Benbrook Lake	23	88,200	73,170	83	-6,480	-7	-8,620	-10
Joe Pool Lake	24	175,800	170,040	97	-2,580	-1	-5,760	-3
Ray Roberts Lake	25	798,760	764,660	96	-15,390	-2	-34,100	-4
Lewisville Lake	26	555,000	555,000	100	0	0	0	0
Grapevine Lake Lavon Lake	27	187,700	161,690	86	-7,270	-4	-26,010	-14
Lake Ray Hubbard	28 29	443,800 413,420	388,140 387,900	87 94	-32,330 -11,000	-7 -3	-53,050 -19,300	-12 -5
Richland-Chambers Creek Lake	30	1,103,820	1,077,000	98	-23,000	-2	-26,820	-2
Navarro Mills Lake	31	55,810	49,840	89	-3,500	-6	-5,970	-11
Bardwell Lake	32	53,580	44,800	84	-310	-1	-2,180	-4
Hubbard Creek Reservoir	33	317,800	183,240	58	-2,750	-1	56,020	18
Lake Graham	34		37,450	83	-1,170	-3	11,590	26
Possum Kingdom Lake	35	551,820	463,400	84	-11,200	-2	3,400	1
Lake Palo Pinto	36	27,650	21,420	77	-1,970	-7	580	2
Lake Granbury	37	135,680	125,400	92	-6,900	-5	-8,300	-6
Lake Pat Cleburne	38	25,300	22,750	90	-1,350	-5	-2,550	-10
Whitney Lake	39	622,800	544,530	87	-21,960	-4	-75,360	-12
Waco Lake	40	144,500	144,500	100	0	0	0	0
Proctor Lake	41	55,590	46,690	84	-5,170	-9	-7,210	-13
Belton Lake	42	434,500	425,630	98	-8,090	-2	-8,870	-2
Stillhouse Hollow Lake	43	226,060	226,060	100	0	0	0	0
Lake Georgetown	44	37,010	32,390	88	-2,720	-7	-3,970	-11
Granger Lake	45	54,280	54,280	100	0	0	0	0
Lake Limestone	46	215,750	193,950	90	-9,670	-4	-17,450	-8
Lake Brownwood	47	143,400	122,790	86	-6,060	-4	-4,710	-3
TOTAL		11,908,050	10,387,730	87	-308,910	-3	-787,790	-7

Name of Lake	No.	Conservation	Conservatio	on	Change sind	e:	Change sin	ce
or Reservoir	on	Storage	Storage		Late June		Late July	Y
	Map	Capacity	Late Jul. 2	005	2005		2004	
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
			EAST					
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0
Lake Cypress Springs	49	66,800	63,500	95	-1,150	-2	-3,300	-5
Lake Bob Sandlin	50	202,300	181,600	90	-6,500	-3	-20,200	-10
Lake O' the Pines	51	252,000	211,370	84	-9,800	-4	-40,630	-16
Lake Fork Reservoir	52	635,200	631,300	99	-3,900	-1	-3,900	-1
Toledo Bend Reservoir	53	4,472,900	3,578,000	80	-248,000	-6	-780,000	-17
Lake Palestine	54	411,300	390,720	95	-9,530	-2	-14,550	-4
Lake Tyler	55	73,700	70,660	96	-2,620	-4	-3,040	-4
Sam Rayburn Reservoir	56	2,876,300	2,658,530	92	-95,420	-3	-215,880	-8
B. A. Steinhagen Lake	57	94,200	69 , 570	74	-20,270	-22	410	0
Cedar Creek Reservoir	58	637,050	598,600	94	-15,600	-2	-24,300	-4
Lake Livingston	59	1,750,000	1,717,000	98	2,000	0	-27,000	-2
Lake Conroe	60	429,900	394,300	92	-5,000	-1	-16,300	-4
TOTAL		12,044,350	10,707,850	89	-415,790	-3	-1,148,690	-10
		TRAN	S-PECOS					
Red Bluff Reservoir	61	307,000	95,710	31	-18,080	-6	27,410	9
TOTAL		307,000	95,710	31	-18,080	-6	27,410	9
E. V. Spence Reservoir	62	EDWARD 488,760	S PLATEAU 66,590	14	-3,870	-1	24,700	5
Twin Buttes Reservoir	63	177,800	39,720	22	-2,100	-1	34,830	20
0.C. Fisher Lake	64	119,200	5,770	5	-2,100	0	3,880	20
O. H. Ivie Reservoir	65	554,340	301,700	54	-13,700	-2	127,920	23
Lake Buchanan	66	896,980	829,240	92	-32,520	-4	-23,790	-3
Amistad Reservoir (Texas)	67	1,771,030	2,354,000	133	-83,000	-5	680,000	38
Amistad Reservoir	07	1,771,050	2,331,000	100	03,000	5	000,000	50
(Texas and Mexico)	(67)	3,151,300	2,755,000	87	-82,000	-3	867,000	28
TOTAL	(0))	4,008,110	3,597,020	90	-135,760	-3	847,540	21
			CENTRAL					
Somerville Lake	68	155,060	145,620	94	-4,960	-3	-9,440	-6
Lake Travis	69	1,144,100	1,013,400	89	-70,200	-6	-130,700	-11
Canyon Lake	70		379,590	98	-4,390		-6,010	-2
Coleto Creek Reservoir	71	35,060	30,940	88	-310		-830	-2
Medina Lake TOTAL	72	254,000 1,973,820	239,100 1,808,650	94 92	-11,000 -90,860		-14,900 -161,880	-6 -8
IOIAL		1,973,820	1,808,050	92	-90,800	-5	-101,880	-0
			R COAST					
Lake Houston	73		128,860	100	0	0	0	0
Lake Texana	74	157,900	154,530	98	7,530	5	-2,740	-2
TOTAL		286,760	283,390	99	7,530	3	-2,740	-1
		SOL	JTHERN					
Choke Canyon Reservoir	75	695,260	673,000	97	-6,000	-1	-19,000	-3
Lake Corpus Christi	76	241,240	202,700	84	-2,300	-1	-38,540	-16
Falcon Reservoir (Texas)	77	1,555,120	739,000	48	-39,000	-3	25,000	2
Falcon Reservoir								
(Texas and Mexico)	(77)	2,653,290	1,186,000	45	-31,000		-487,000	-18
TOTAL		2,491,620	1,614,700	65	-47,300	-2	-32,540	-1
		34,470,430	29,117,780				-1,122,760	

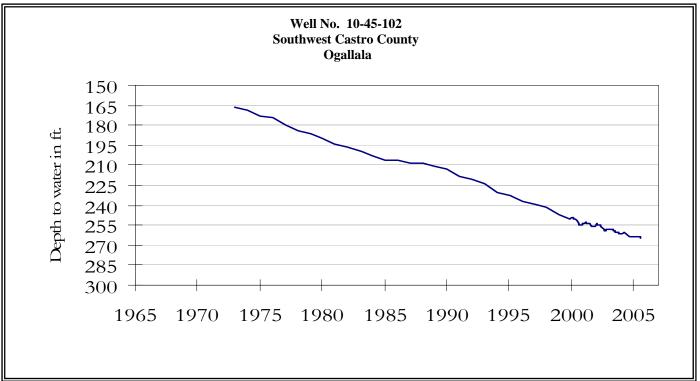
CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Note:

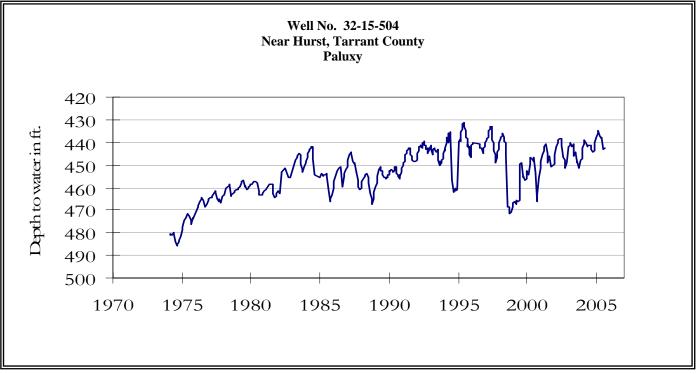
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

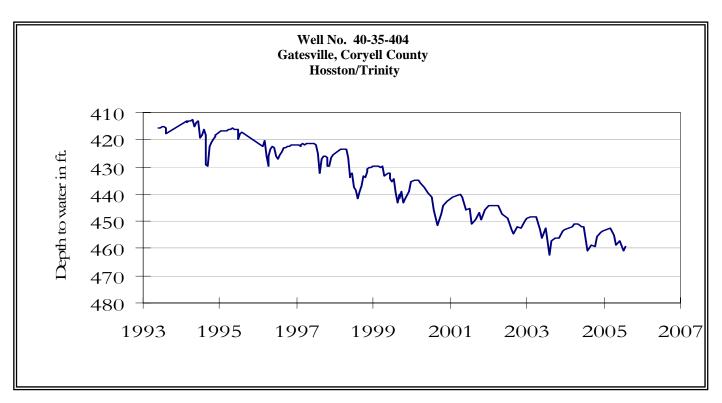
JULY GROUND WATER LEVELS IN OBSERVATION WELLS



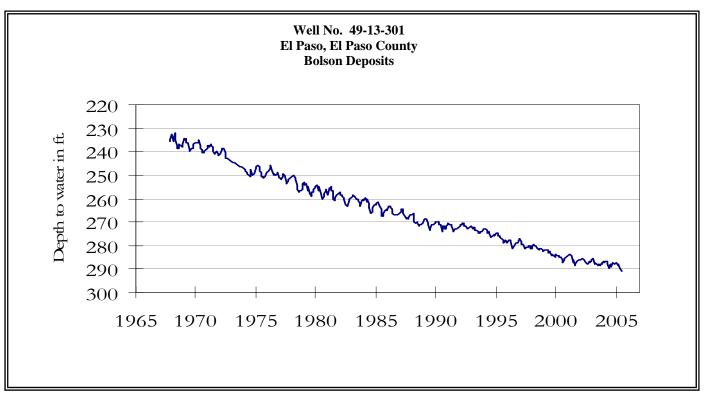
The late July water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 264.40 feet below land surface. This measurement was 0.54 feet below last month's measurement, 1.40 feet below last year's measurement, and 108.40 feet below the initial measurement recorded in 1968.



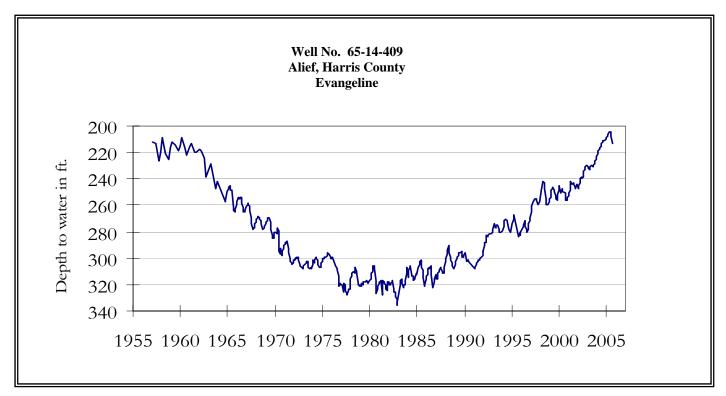
The late July water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 442.45 feet below land surface. This measurement was 0.83 feet above last month's measurement, 1.25 feet below last year's measurement, and 64.45 feet below the initial measurement recorded in 1953.



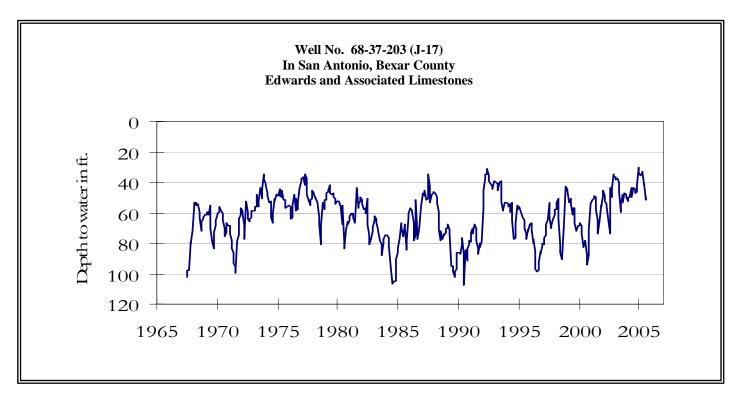
The late July water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 459.27 feet below land surface. This water level was 1.55 feet above last month's measurement, 1.33 feet above last year's measurement, and 167.27 feet below the initial measurement recorded in 1955.



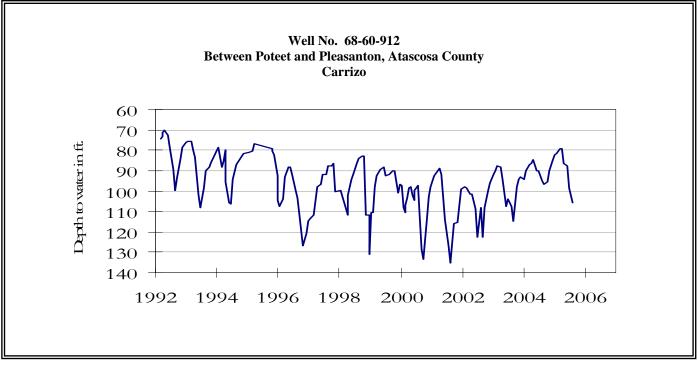
The late July water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 290.84 feet below land surface. This was 0.14 feet below last month's measurement, 2.94 feet below last year's measurement, and 58.94 feet below the initial measurement recorded in 1964.



The late July water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 212.85 feet below land surface. This was 5.42 feet below last month's measurement, 0.85 feet below last year's measurement, and 77.35 feet below the initial measurement recorded in 1947.

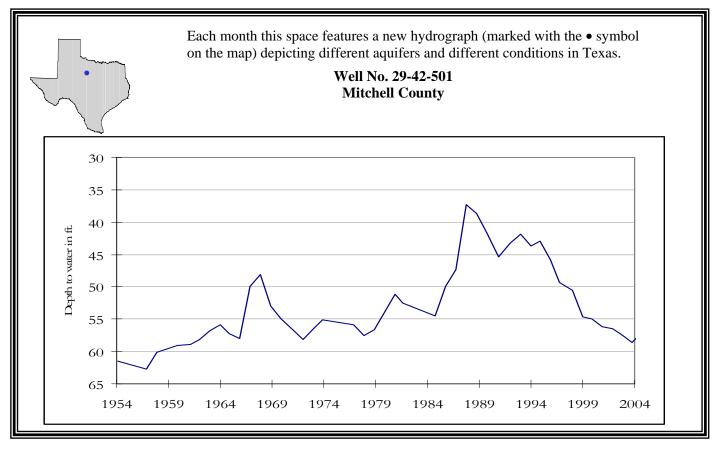


The late July water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 49.38 feet below land surface. This was 2.56 feet above last month's measurement, 4.98 feet below last year's measurement, and 2.74 feet below the initial measurement recorded in 1962.



The late July water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 105.46 feet below land surface. This measurement was 7.24 feet below last month's measurement, 10.37 feet below last year's measurement, and 70.10 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



This water level observation well, located 5 miles south of Colorado City, at an elevation of 2126 feet ASL, was completed in the Dockum aquifer. Recharge to the aquifer is negligible ezcept in the outcrop areas where approximately 23,500 ac-ft is estimated to occur annually.

July, 2005

Water levels rose in three of the seven key monitoring wells since the beginning of July, ranging from 0.83 feet in the Tarrant Co. Paluxy well to 2.56 feet in the Bexar Co. J-17 well. The water level declined in the remaining four monitoring wells, ranging from 0.14 feet in the El Paso Co. (Bolson Deposits) well to 7.24 feet in the Atascosa Co. Carrizo well. The J-17 well recorded a water level of 49.38 feet below the land surface, a rise of 2.56 feet from the June 2005 measurement. This water level is approximately thirty-one (31) feet above the Stage 1 critical management criteria.

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