Texas Water Development Board





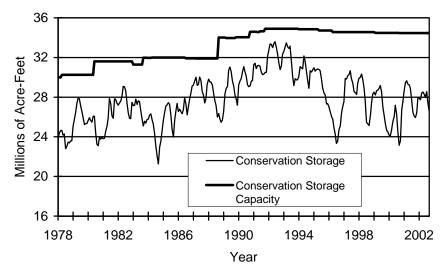
RESERVOIR STORAGE

September 2002

Near the end of September, the 77 reservoirs monitored for this report held 26.54 million acre-feet in conservation storage, or 77.0 percent of the conservation storage capacity of the State's major reservoirs. Statewide total storage is below the median for this time of year. Storage decreased for the month, down 0.84 million acre-feet (-2.4%). Compared to last year at this time, storage is up 0.45 million acre-feet (+1.3%).

Storage in the Upper Coast (100%) and South Central (96%) Regions are at or near capacity, while the High Plains (35%), Low Rolling Plains (46%), Trans-Pecos (14%), Edwards Plateau (43%) and Southern (44%) Regions remained low, though none significantly down from last month. The North Central (89%) and East (86%) Regions are in good shape, more or less what they were at this time last year. Storage is at 100% in 9 reservoirs, down 4 from last month.

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.

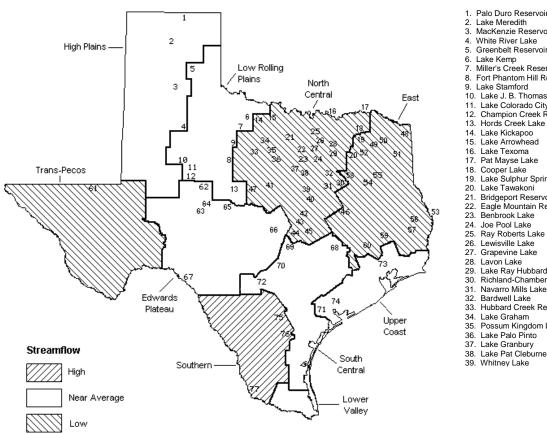
STREAMFLOW

Of 29 reporting index stations in September, computed 30-day mean flows were very high (0% - 5% exceedance) at 3 stations, high (5% - 30% exceedance) at 8 stations, near normal (30% - 70% exceedance) at 7 stations, low (70% - 95% exceedance) at 10 stations and very low (95% - 100% exceedance) at 1 station. Compared to August, flows increased at 17 index stations and decreased at 12.

On a regional basis, flows in September were very high in the Southern Region, low in the East Texas and North Central Regions, very low in the Trans-Pecos Region and near normal everywhere else.

SEPTEMBER STREAMFLOW CONDITIONS

Reservoirs Shown on Map



40. Waco Lake Palo Duro Reservoir Lake Meredith 41 Proctor Lake MacKenzie Reservoir 42. Belton Lake White River Lake 43. Stillhouse Hollow Lake Greenbelt Reservoir 44. Lake Georgetown 45. Granger Lake 7. Miller's Creek Reservoir 46. Lake Limestone 8. Fort Phantom Hill Reservoir 47. Lake Brownwood Lake Stamford Wright Patman Lake 10. Lake J. B. Thomas 49. Lake Cypress Springs 50. Lake Bob Sandlin 11. Lake Colorado City Champion Creek Reservoir
Hords Creek Lake 51 Lake O' the Pines 52. Lake Fork Reservoir Lake Kickapoo Toledo Bend Reservoir Lake Arrowhead 54. Lake Palestine 55. Lake Tyler 17. Pat Mayse Lake 56. Sam Rayburn Reservoir 57. B. A. Steinhagen Lake 58. Cedar Creek Reservoir Lake Sulphur Springs Lake Tawakoni 59. Lake Livingston Bridgeport Reservoir 60. Lake Conroe Eagle Mountain Reservoir Red Bluff Reservoir 23. Benbrook Lake 62. E. V. Spence Reservoir Joe Pool Lake 63. Twin Buttes Reservoir Ray Roberts Lake 64. O. C. Fisher Lake 65. O. H. Ivie Reservoir Lewisville Lake Grapevine Lake Lake Buchanan 67. Intl. Amistad Reservoir Lake Ray Hubbard 68. Somerville Lake Richland-Chambers Creek Lake 69. Lake Travis Navarro Mills Lake 70. Canvon Lake Bardwell Lake Coleto Creek Reservoir 33 Hubbard Creek Reservoir 72. Medina Lake Lake Graham 73. Lake Houston Possum Kingdom Lake Lake Texana Lake Palo Pinto 75. Choke Canyon Reservoir 76. Lake Corpus Christi

77. Intl. Falcon Reservoir

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

<u> </u>		a			Change sings		6 1		
Name of Lake	No.	Conservation	Conservation	n	Change since		Change since		
or Reservoir	on	Storage	Storage	2000	Late August		Late September		
	Map		Late September		2002		2001		
		(acre-feet)		(%)	(acre-feet)	(%)	(acre-feet)	(%)	
		_	PLAINS						
Palo Duro Reservoir	1	60,900		7	-2,970	-5	-3,400		
Lake Meredith (Texas)	2	500,000	204,600	41	-2,000	0	-79,600	-16	
Lake Meredith									
(Texas and Oklahoma)	(2)	779,560		26	-2,000	0	-79,600		
MacKenzie Reservoir	3	•		15	-200	0	-1,960	-4	
White River Lake	4	31,850		16	-480	-2	-2,960	-9	
TOTAL		639,000	220,850	35	-5,650	-1	-87,920	-14	
		TOW BOTT	INC DIATNO						
Greenbelt Reservoir	5		ING PLAINS 21,780	37	-290	0	-1,660	-3	
Lake Kemp	6	319,600		64	-11,000	-3	78,600	-3 25	
Miller's Creek Reservoir	7	27,890		57	-840	-3	2,550	23	
Fort Phantom Hill Reservoir	8	70,030		66	-2,610	-4	13,590	19	
Lake Stamford	9	52,700		77	-2,110	-4	26,760	51	
Lake J. B. Thomas	10	202,300		10	-2,110	0	1,710	1	
Lake Colorado City	11	30,800		55	-200	-1	-440	-1	
Champion Creek Reservoir	12	41,600		6	-130	0	60	0	
Hords Creek Lake	13	8,600		29	-80	-1	-920		
TOTAL	13	811,720		46	-18,140	-2	120,250	15	
		0==,,=0	0.2,000			_			
		NORTH	CENTRAL						
Lake Kickapoo	14	106,000	83,950	79	-3,450	-3	4,200	4	
Lake Arrowhead	15	262,100	150,900	58	-6,100	-2	-10,500	-4	
Lake Texoma	16	2,722,300	2,490,000	91	-82,000	-3	-4,000	0	
Pat Mayse Lake	17	124,500	108,800	87	-2,500	-2	-5,600	-4	
Cooper Lake	18	273,000	270,400	99	-2,600	-1	-2,600	-1	
Lake Sulphur Springs	19	17,710	16,320	92	-550	-3	3,500	20	
Lake Tawakoni	20	936,200	818,400	87	-25,300	-3	18,400	2	
Bridgeport Reservoir	21	374,830	287,400	77	-11,600	-3	-22,100	-6	
Eagle Mountain Reservoir	22	178,380	142,700	80	-6,100	-3	-9,300	-5	
Benbrook Lake	23	88,200	•	78	-4,810	-5	2,830	3	
Joe Pool Lake	24	•		96	-4,000	-2	-7,000	-4	
Ray Roberts Lake	25	798,760	768,900	96	-12,000	-2	5,900	1	
Lewisville Lake	26	555,000			0	0	16,700	3	
Grapevine Lake	27	187,700		87	-7,700	-4	13,100	7	
Lavon Lake	28	443,800		81	-27,300	-6	28,700	6	
Lake Ray Hubbard	29	413,420		86	-11,600	-3	-18,200	-4	
Richland-Chambers Creek Lake	30	1,103,820		95	-26,000	-2	10,000	1	
Navarro Mills Lake	31			91	-2,340	-4	4,310	8	
Bardwell Lake	32			77	-2,200	-4	-810	-2	
Hubbard Creek Reservoir	33			48	-3,400	-1	24,600	8	
Lake Graham	34			68	-1,300	-3	-4,820		
Possum Kingdom Lake	35	551,820		89	-22,700	-4	39,100	7	
Lake Palo Pinto	36	27,650	-	63	-1,430	-5	390	1	
Lake Granbury	37	135,680		98	-500 -1 330	0 _5	9,000	7	
Lake Pat Cleburne Whitney Lake	38 39	25,300 622,800		85 83	-1,320 -28,400	-5 -5	1,000 43,700	4 7	
Waco Lake	40	144,500		94	-28,400 -6,600	-5 -5	3,000	2	
Proctor Lake	41	55,590		88	-3,320	-6	8,320	15	
Belton Lake	42	434,500		96	-8,900	-2	-15,700	-4	
Stillhouse Hollow Lake	43	226,060		99	-1,560	-1	-1,200	-1	
Lake Georgetown	44	37,010			-1,300	0	5,800	16	
Granger Lake	45				0	0	0	0	
Lake Limestone	46	215,750		92	-6,000	-3	-2,400	-1	
Lake Brownwood	47	143,400		86	-3,800	-3	13,900	10	
TOTAL		11,908,050		89	-327,380	-3	152,220	1	
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CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation		Change since		Change since		
or Reservoir	on	Storage	orage Storage acity Late September 2002		Late August 2002		Late September		
	Map	_					2001		
		(acre-feet)							
		,	,	, , ,	, , , , , , , , , , , , , , , , , , , ,	,	,	, ,,	
		E.	AST						
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0	
Lake Cypress Springs	49	66,800	64,410	96	-1,780	-3	-2,390	-4	
Lake Bob Sandlin	50	202,300	193,500	96	-3,000	-1	-8,800	-4	
Lake O' the Pines	51	252,000	240,800	96	-6,100	-2	-11,200	-4	
Lake Fork Reservoir	52	635,200	628,400	99	-6,800	-1	-6,800	-1	
Toledo Bend Reservoir	53	4,472,900	3,530,000	79	-223,000	-5	249,000	6	
Lake Palestine	54	411,300	375,100	91	-10,900	-3	-28,400	-7	
Lake Tyler	55	73,700	73,700	100	0	0	0	0	
Sam Rayburn Reservoir	56	2,876,300	2,278,000	79	-155,000	-5	-376,000	-13	
B. A. Steinhagen Lake	57	94,200	87,110	92	39,170	42	38,920	41	
Cedar Creek Reservoir	58	637,050	591,000	93	-16,400	-3	-5,100	-1	
Lake Livingston	59	1,750,000	1,730,000	99	-10,000	-1	-10,000	-1	
Lake Conroe	60	429,900	399,300	93	-5,000	-1	-15,400	-4	
TOTAL		12,044,350	10,334,020	86	-398,810	-3	-176,170	-1	
		mp and	PEGOG						
			-PECOS			_		_	
Red Bluff Reservoir	61	307,000		14	1,070	0	10,630	3	
TOTAL		307,000	43,200	14	1,070	0	10,630	3	
		EDWARDS	PLATEAU						
E. V. Spence Reservoir	62	488,760	46,450	10	-2,590	-1	-13,790	-3	
Twin Buttes Reservoir	63	177,800	5,890	3	-110	0	-2,730	-2	
O.C. Fisher Lake	64	119,200	3,500	3	-570	0	-910	-1	
O. H. Ivie Reservoir	65	554,340	216,300	39	-9,100	-2	-55,200	-10	
Lake Buchanan	66	896,980	823,200	92	0	0	76,000	8	
Amistad Reservoir (Texas)	67	1,771,030	646,000	36	-16,000	-1	-37,000	-2	
Amistad Reservoir									
(Texas and Mexico)	(67)	3,151,300	841,000	27	-14,000	0	-34,000	-1	
TOTAL		4,008,110	1,741,340	43	-28,370	-1	-33,630	-1	
		SOUTH	CENTRAL						
Somerville Lake	68	155,060		98	-2,900	-2	-3,160	-2	
Lake Travis	69	1,144,100	1,083,000	95	-48,000	-4	119,300	10	
Canyon Lake	70	385,600		98	-5,900	_	-5,900	-2	
Coleto Creek Reservoir	71	35,060		90	1,580	5	-630	-2	
Medina Lake	72	254,000			0	0	17,000	7	
TOTAL	<i>,</i> –	1,973,820		96	-55,220	-3	126,610	6	
		UPPER	COAST						
Lake Houston	73	128,860	128,860	100	0	0	0	0	
Lake Texana	74	157,900	157,700	100	5,200	3	-200	0	
TOTAL		286,760	286,560	100	5,200	2	-200	0	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

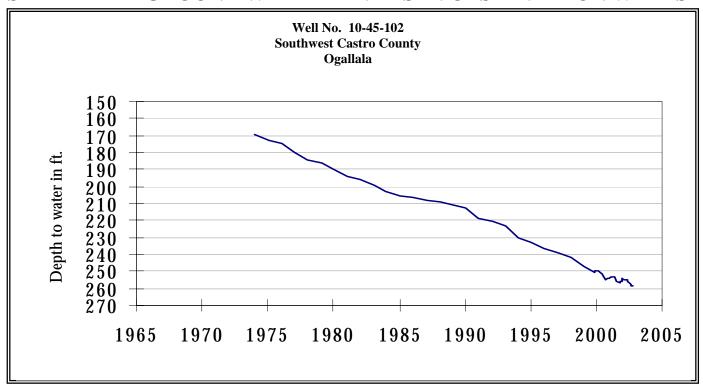
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity	Conservation Storage Late September 2002		Change since Late August 2002		Change since Late September 2001		
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
SOUTHERN									
Choke Canyon Reservoir	75	695,260	689,000	99	-5,000	-1	455,000	65	
Lake Corpus Christi	76	241,240	241,240	100	2,540	1	64,840	27	
Falcon Reservoir (Texas)	77	1,555,120	156,000	10	-9,000	-1	-181,000	-12	
Falcon Reservoir									
(Texas and Mexico)	(77)	2,653,290	369,000	14	110,000	4	-81,000	-3	
TOTAL		2,491,620	1,086,240	44	-11,460	0	338,840	14	
STATE TOTAL		34,470,430	26,540,160	77	-838,760	-2	450,630	1	

Note:

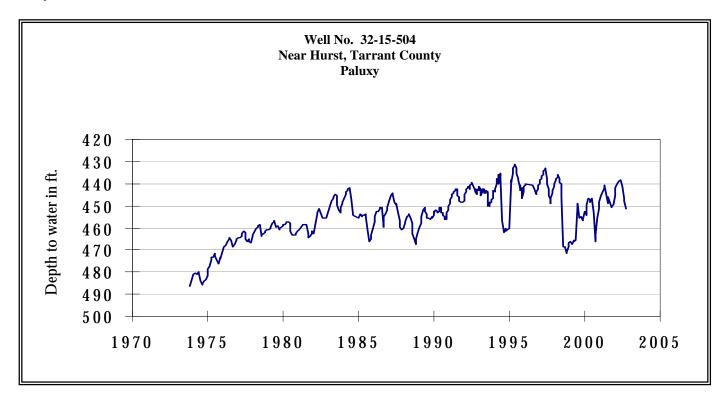
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included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

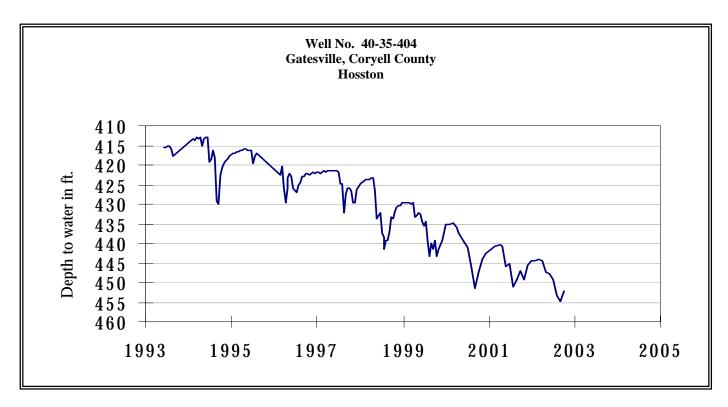
SEPTEMBER GROUND WATER LEVELS IN OBSERVATION WELLS



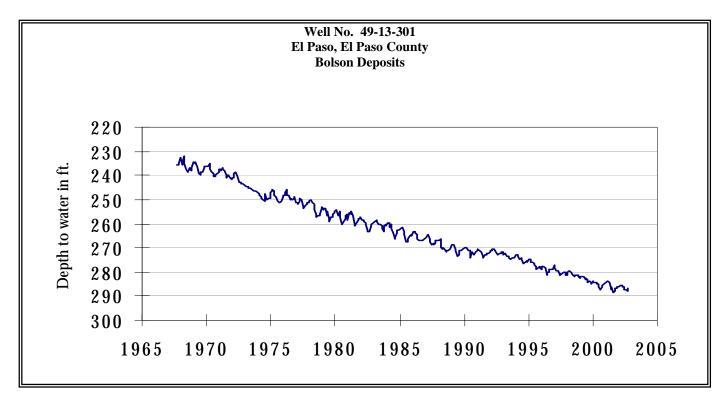
The late September water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 258.69 feet below land surface. This measurement was 0.04 feet above last month's measurement, 2.35 feet below last year's measurement, and 102.69 feet below the initial measurement recorded in 1968.



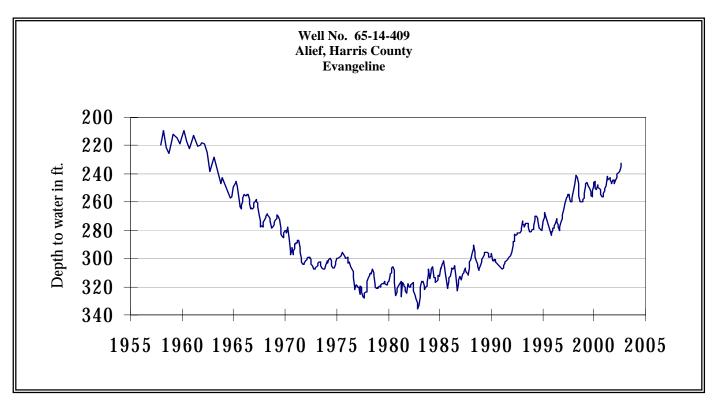
The late September water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 451.45 feet below land surface. This measurement was 3.40 feet below last month's measurement, 0.34 feet above last year's measurement, and 58.06 feet below the initial measurement recorded in 1953.



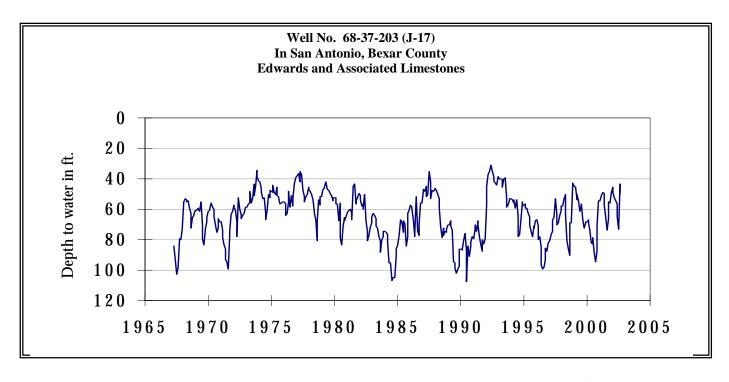
The late September water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 452.09 feet below land surface. This measurement was 2.72 feet above last month's measurement, 5.05 feet below last year's measurement, and 160.09 feet below the initial measurement recorded in 1955.



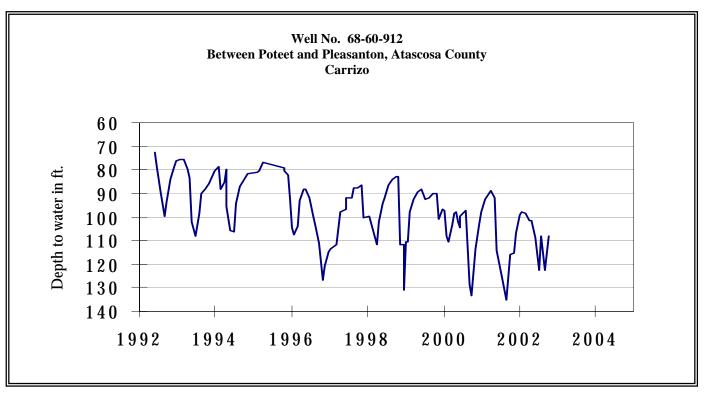
The late September water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 287.05 feet below land surface. This was 0.69 feet above last month's measurement, 0.11 feet below last year's measurement, and 55.15 feet below the initial measurement recorded in 1964.



The late September water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 231.30 feet below land surface. This was 1.36 feet above last month's measurement, 15.69 feet above last year's measurement, and 128.07 feet below the initial measurement recorded in 1947.

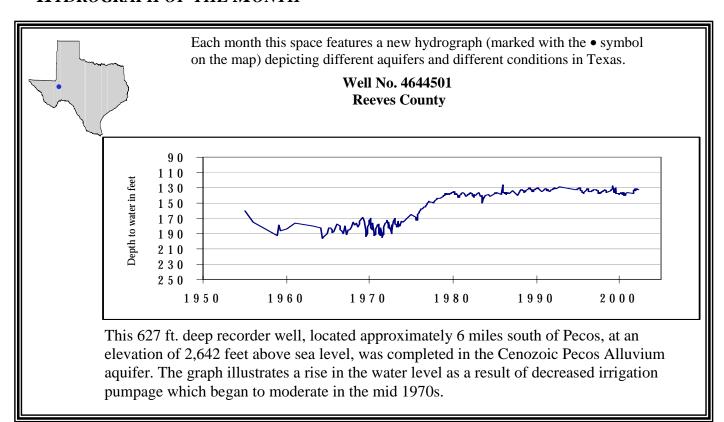


The late September water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 43.62 feet below land surface. This was 6.01 feet above last month's measurement, 11.51 feet above last year's measurement, and 16.00 feet above the initial measurement recorded in 1962.



The late September water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 108.10 feet below land surface. This measurement was 14.52 feet above last month's measurement, 7.73 feet above last year's measurement, and 26.85 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



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