Texas Water Development Board





RESERVOIR STORAGE January 2009

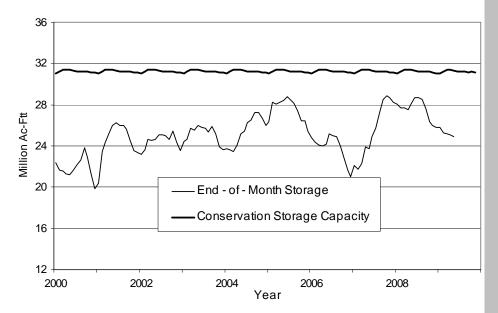
Near the end of January, the 109 reservoirs monitored for this report held 24.9 million acre-feet* in conservation storage, or 80 percent of the conservation storage capacity of the state's 175 major water supply reservoirs.

Storage was at 100% in 12 reservoirs, including Falcon and Amistad. Eight out of these 12 reservoirs are in the East Region. On the other hand, five lakes were at or below 10% full: O C Fisher Lake was still effectively empty, Palo Duro (2%) was almost empty, Lake Meredith and J B Thomas both at 8%, and E.V. Spence is 10% full.

Regionally, the Southern Region (94%) is the only region having storage at or above 90% of capacity, and the High Plains (12%) and Trans-Pecos Regions (28%) remained very low. Storage increased in three regions and decreased in the remaining six in the past month, but increased in only two of the nine regions over the past 12 month period.

* Only the Texas share of storage in border reservoirs is counted.

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS



Figures are based on end of the month data at 109 major reservoirs that represent 95 percent of the total conservation storage capacity of the 175 major water supply reservoirs in Texas. By definition, a major reservoir has a conservation storage capacity of 5,000 acre-feet or greater.

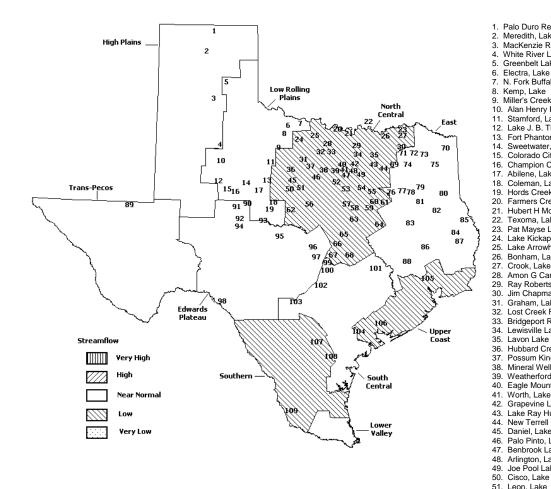
STREAMFLOW

Of 29 reporting index stations in January, computed 30-day mean flows were very high (<5%) at 1 station, high (5% - 30%) at 2 stations, low (70% - 95%) at 11 stations, very low (>95%) at 1 station, and near normal (30% - 70%) at the remaining 14 stations. Compared to December, flows have increased at 14 index stations and decreased at 13 stations.

On a regional basis, flows in January were low in the North Central, Upper Coast, and Southern Regions, but normal in all other regions. Streamflow in the Lower Valley Region is not monitored.

JANUARY STREAMFLOW CONDITIONS

Reservoirs Shown on Map



Palo Duro Reservoir 56. Proctor Lake Whitney Lake Meredith, Lake 57. Aquilla Lake MacKenzie Reservoir 58. White River Lake 59 Navarro Mills Lake Greenbelt Lake 60. Halbert, Lake Electra, Lake **Richland-Chambers Reservoir** 61. N. Fork Buffalo Creek Reservoir 62. Lake Brownwood Kemp, Lake 63. Waco Lake 9. Miller's Creek Reservoir 64 Limestone Lake 10. Alan Henry Reservoir 65. Belton Lake Stamford, Lake Stillhouse Hollow Lake 66. 12. Lake J. B. Thomas 67. Georgetown, Lake Fort Phantom Hill, Lake 68. Granger Lake 14. Sweetwater, Lake 69 Tawakoni Lake 15. Colorado City, Lake 70. Wright Patman Lake Champion Creek Reservoir Sulphur Springs, Lake 71. Abilene, Lake 72. Cypress Springs, Lake Coleman, Lake 73. Bob Sandlin, Lake Hords Creek Lake Farmers Creek Reservoir 74. Fork Reservoir, Lake 75. O' the Pines, Lake Hubert H Moss Lake 76. Cedar Creek Reservoir Trinity Texoma, Lake 77. Athens, Lake Pat Mayse Lake 78. Palestine, Lake Lake Kickapoo Tyler, Lake 70 Lake Arrowhead 80. Murvaul, Lake Jacksonville, Lake Bonham, Lake 81. Crook, Lake 82 Nacogdoches, Lake Amon G Carter, Lake 83. Houston County Lake Ray Roberts, Lake 84. Sam Rayburn Reservoir Jim Chapman Lake 85. Toledo Bend Reservoir Graham, Lake 86. Livingston, Lake Lost Creek Reservoir 87. B. A. Steinhagen Lake Bridgeport Reservoir 88. Conroe, Lake Red Bluff Reservoir Lewisville Lake 89. Lavon Lake 90 Oak Creek Reservoir Hubbard Creek Reservoir 91. E. V. Spence Reservoir Possum Kingdom Lake O. C. Fisher Lake 92. Mineral Wells, Lake 93. O. H. Ivie Reservoir Weatherford, Lake Twin Buttes Reservoir 40. Eagle Mountain Lake 95. Vrady Creek Reservoir Worth, Lake 96. Buchanan, Lake Grapevine Lake 97. Lyndon B Johnson, Lake Lake Ray Hubbard 98 Amistad Reservoir Intl New Terrell City Lake 99. Travis, Lake 45. Daniel, Lake 100. Austin, Lake Palo Pinto, Lake 101. Somerville Lake Benbrook Lake Canyon Lake 102. 48. Arlington, Lake 49. Joe Pool Lake 103 Medina Lake 104. Coleto Creek Reservoir 105. Lake Houston Leon, Lake 106. Texana, Lake Lake Granbury Choke Canyon Reservoir 107. Pat Cleburne, Lake 108. Lake Corpus Christi 109. Falcon Reservoir, Intl. Waxahacie, Lake 55. Bardwell Lake

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54.

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation		Change since		Change since		
or Reservoir	on	Storage	Storage		Late December		Late January		
	Map	Capacity	Late Jan.	2009	2009		2008		
	F	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
	•	HIGH PL				-		-	
Palo Duro Reservoir	1	60,897	1,033	2	-146	0	290	0	
Meredith, Lake (Texas)	2	500,000	62,381	12	-1,556	0	13,058	3	
Meredith, Lake (Texas & Oklahoma)	(2)	779,556	62,381	8	-1,556	0	13,058	2	
MacKenzie Reservoir	3	46,429	5,750	12	-87	0	-1,567	-3	
White River Lake	4	29,880	6,659	22	-254	-1	5,327	18	
TOTAL		637,206	75,823	12	-2,043	0	17,108	3	
		LOW ROLLING	PLAINS						
Greenbelt Lake	5	59,500	18,350	31	-81	0	-3,560	-6	
*Electra, Lake	6	5,626	922	16	-53	-1	-782	-14	
N. Fork Buffalo Crk Reservoir	7	15,400	3,960	26	-125	-1	-869	-6	
Kemp, Lake	8	245,308	167,119	68	-2,860	-1	-78,189	-32	
Millers Creek Reservoir	9	27,888	16,075	58	-440	-2	-6,855	-25	
Alan Henry Reservoir	10	94,808	92,766	98	-672	-1	1,485	23	
Stamford, Lake	10	51,570	35,278	68	-1,117	-2	-14,309	-28	
J B Thomas, Lake	12	199,931	16,162	8	-1,117	-2	-9,096	-20	
Fort Phantom Hill, Lake	13	70,030	62,043	89	-298	-2	-2,928	-5 -4	
Sweetwater, Lake	14		7,467	75	-151	-2	-68	-1	
	15	10,006		68	-307	-1		-16	
Colorado City, Lake		31,793	21,712				-5,229		
Champion Creek Reservoir	16	41,618	8,925	21	-67	0	-470	-1	
Abilene, Lake	17	6,099	3,675	60	-225	-4	-1,865	-31	
Coleman, Lake	18	38,076	27,801	73	-532	-1	-6,946	-18	
Hords Creek Lake	19	5,684	2,801	49	-128	-2	-1,937	-34	
TOTAL		903,337	485,056	54	-8,464	-1	-131,618	-15	
		NORTH CE							
Nocona, Lake (Farmers Crk)	20	21,445	16,856	79	-328	-2	-2,288	-11	
Hubert H Moss Lake	21	24,058	20,868	87	-233	-1	-1,621	-7	
Texoma, Lake (Texas)	22	1,209,709	1,209,709	100	-32,563	-3	35,006	3	
Texoma, Lake (Texas & Oklahoma)	(22)	2,419,418	2,419,418	100	-65,126	-3	70,012	3	
*Pat Mayse Lake	23	118,100	105,609	89	-1,501	-1	-12,257	-10	
Kickapoo, Lake	24	85,825	39,092	46	-1,256	-1	-20,571	-24	
Arrowhead, Lake	25	235,997	156,853	66	-2,948	-1	-49,281	-21	
Bonham, Lake	26	11,026	8,007	73	-203	-2	-1,794	-16	
Crook, Lake	27	9,195	8,709	95	-52	-1	-196	-2	
Amon G Carter, Lake	28	19,903	15,949	80	-310	-2	-2,024	-10	
Ray Roberts, Lake	29	798,758	722,604	90	-7,330	-1	-57,601	-7	
Jim Chapman Lake (Cooper)	30	260,332	154,476	59	-8,074	-3	-135,151	-52	
Graham, Lake	31	45,260	40,519	90	-498	-1	2,029	4	
*Lost Creek Reservoir	32	11,950	10,316	86	-107	-1	-911	-8	
Bridgeport, Lake	33	366,236	273,583	75	-6,952	-2	-44,829	-12	
Lewisville Lake	34	543,988	425,219	78	-7,793	-1	-91,494	-17	
Lavon Lake	35	443,844	360,341	81	4,498	1	-17,233	-4	
Hubbard Creek Reservoir	36	318,067	257,296	81	-3,714	-1	-20,692	-7	
Possum Kingdom Lake	37	540,340	497,305	92	-4,144	-1	-17,491	-3	
*Mineral Wells, Lake	38	7,065	5,131	73	-88	-1	-912	-13	
Weatherford, Lake	39	18,645	12,020	64	-392	-2	-3,821	-20	
Eagle Mountain Lake	40	182,500	143,562	79	-1,449	-1	-17,713	-10	
Worth, Lake	41	24,500	18,241	74	-779	-3	-3,126	-13	
Grapevine Lake	42	164,702	118,452	72	-2,794	-2	-35,426		
				92		-2 -2			
Ray Hubbard, Lake	43	452,040	415,157		-10,985		-33,576	-7 -12	
New Terrell City Lake	44	8,583	7,277	85	-233	-3	-1,034		
Daniel, Lake	45	9,435	6,572	70	-240	-3	-1,102		
Palo Pinto, Lake	46	27,150	14,373	53 71	-909	-3	-7,175		
Benbrook Lake	47	85,648	61,040	71	1,338	2	-20,395	-24	

Arlington, Lake

-6,794 -18 48 67 -52 0 CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservation Storage		Change since Late December		Change since Late January	
or Reservoir	on	Storage						
	Map	Capacity	Late Jan.	2009	2009		2008	
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
	NORT	H CENTRAL (C	Continue)					
Joe Pool Lake	49	142,861	124,212	87	-140	0	-10,189	-7
*Cisco, Lake	50	26,000	19,129	74	-301	-1	-1,901	-7
Leon, Lake	51	26,421	20,828	79	-456	-2	-3,643	-14
Granbury, Lake	52	128,046	108,525	85	-3,130	-2	-10,215	-8
Pat Cleburne, Lake	53	25,730	19,492	76	-277	-1	-4,885	-19
Waxahachie, Lake	54	10,779	10,291	95	-239	-2	-81	-1
Bardwell Lake	55	46,122	36,303	79	-252	-1	-8,736	-19
Proctor Lake	56	55,457	35,666	64	-873	-2	-18,589	-34
Whitney, Lake	57	553,349	364,142	66	-4,905	-1	-54,182	-10
Aquilla Lake	58	45,092	33,604	75	-919	-2	-8,266	-18
Navarro Mills Lake	59	55,817	41,161	74	-991	-2	-10,156	-18
*Halbert, Lake	60	6,033	3,296	55	-188	-3	-1,477	-24
Richland-Chambers Reservoir	61	1,103,816	909,539	82	-17,195	-2	-126,722	-11
*Brownwood, Lake	62	131,429	102,130	78	-1,852	-1	-19,358	-15
Waco, Lake	62	198,943	174,330	88	-2,450	-1	-24,613	-12
Limestone, Lake	64	208,015	175,643	84	-2,994	-1	-10,311	-5
Belton Lake	65	435,225	399,670	92	-4,078	-1	-35,555	-8
Stillhouse Hollow Lake	66	227,771	195,825	86	-3,017	-1	-31,946	-14
Georgetown, Lake	67	36,823	17,347	47	512	1	-16,548	-45
Granger Lake	68	52,525	39,046	74	-371	-1	-13,479	-26
Tawakoni, Lake	69	888,126	708,992	80	-10,126	-1	-108,327	-12
TOTAL		10,487,421	8,690,420	83	-144,333	-1	-1,088,652	-10
		EAS	C					
Wright Patman Lake	70	122,593	122,593	100	0	0	0	0
*Sulphur Springs, Lake	71	17,838	14,929	84	231	1	-2,070	-12
Cypress Springs, Lake	72	67,689	66,964	99	-725	-1	0	0
Bob Sandlin, Lake	73	200,579	200,579	100	3,348	2	6,656	3
Fork Reservoir, Lake	74	604,927	581,432	96	-2,112	0	-16,631	- 3
O the Pines, Lake	75	238,933	238,933	100	0	0	0	0
Cedar Creek Reservoir in Trinity	76	644,686	564,442	88	-6,962	-1	-44,046	-7
Athens, Lake	77	29,435	28,628	97	198	1	-807	- 3
Palestine, Lake	78	370,907	370,907	100	0	0	1,304	0
Tyler, Lake	79	73,256	73,256	100	0	0	2,801	4
Murvaul, Lake	80	38,284	38,284	100	0	0	3,294	9
Jacksonville, Lake	81	30,300	30,070	99	338	1	-230	-1
Nacogdoches, Lake	82	39,521	35,397	90	317	1	-942	-2
Houston County Lake	83	17,113	17,113	100	0	0	0	0
Sam Rayburn Reservoir	84	2,857,077	2,178,282	76	26,254	1	-122,727	-4
Toledo Bend Reservoir (Texas)	85	2,236,450	1,937,748	87	23,086	1	5,772	0
Toledo Bend Reservoir (TX & LA)	(85)	4,472,900	3,875,496	87	46,172	1	11,544	0
*Livingston, Lake	86	1,741,867	1,741,867	100	0	0	0	0
B A Steinhagen Lake	87	66,966	49,021	73	-3,408	-5	-11,493	-17
Conroe, Lake	88	416,188	393,164	94	-1,861	0	-19,711	-5
TOTAL		9,814,609	8,683,609	88	38,704	0	-198,830	-2
		TRANS-P	ECOS					
Red Bluff Reservoir	89	289,670	79,716	28	1,478	1	-27,904	-10
TOTAL	60	289,670	79,716	28	1,478	1	-27,904	
IVIAL		205,070	19,110	20	1,1/0	-	27,504	T 0

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

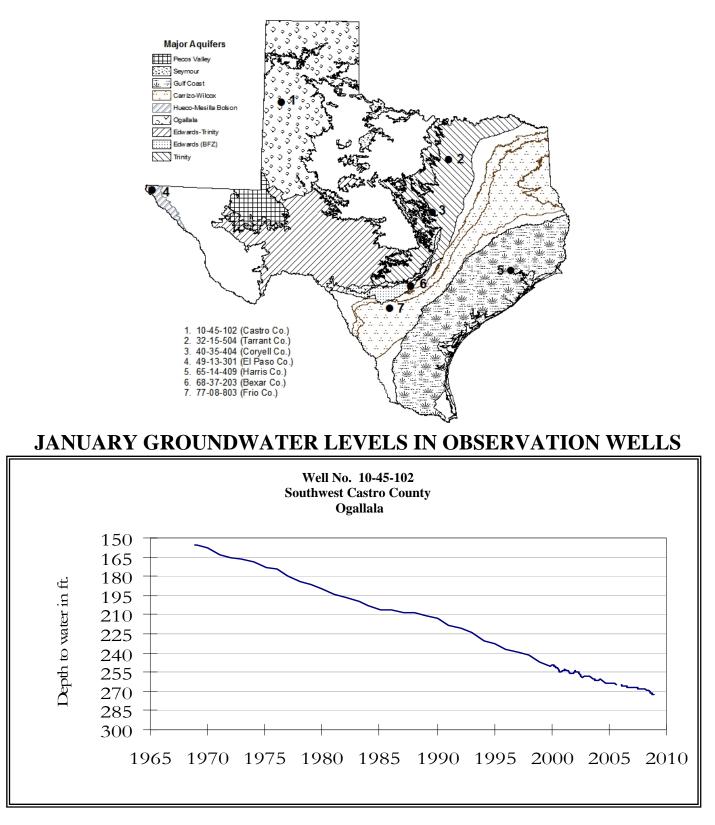
Name of Lake	No.	Conservation	Conservation		Change since		Change sin	ce
or Reservoir	on	Storage	Storage		Late December		Late January	
	Map	Capacity	Late Jan. 2009		2009		2008	
	_	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
	•	EDWARDS P	LATEAU		•			
Oak Creek Reservoir	90	39,260	30,017	76	-576	-1	-8,052	-21
E V Spence Reservoir	91	517,272	51,508	10	-2,121	0	-22,381	-4
0 C Fisher Lake	92	79,483	0	0	0	0	0	0
*O H Ivie Reservoir	93	554,335	302,632	55	-3,545	-1	-68,189	-12
Twin Buttes Reservoir	94	177,850	46,224	26	-880	0	-23,375	-13
Brady Creek Reservoir	95	29,110	14,109	48	-398	-1	-1,393	-5
Buchanan, Lake	96	875,610	573,159	65	0	0	-271,568	-31
Lyndon B Johnson, Lake	97	113,690	112,854	99	64	0	27,764	24
*Amistad Reservoir (Texas)	98	1,840,849	1,879,000	102	22,000	1	-390,000	-21
*Amistad Reservoir (TX & Mexico)	(98)	3,275,532	3,275,532	100	0	0	441,532	13
TOTAL		4,227,459	3,009,503	71	14,544	0	-757,194	-18
		SOUTH CE	NTRAL					
Travis, Lake	99	1,113,902	697,955	63	-9,900	-1	-415,947	-37
*Austin, Lake	100	21,804	20,972	96	152	1	14,047	64
Somerville Lake	101	147,104	115,244	78	-1,658	-1	-31,860	-22
Canyon Lake	102	378,781	292,202	77	-2,836	-1	-86,579	-23
Medina Lake	103	254,823	136,449	54	-7,318	-3	-103,861	-41
*Coleto Creek Reservoir	104	31,040	23,264	75	-87	0	-7,705	-25
TOTAL		1,947,454	1,286,086	66	-21,647	-1	-631,905	-32
		UPPER C	OAST					
Houston, Lake	105	128,863	128,863	100	0	0	0	0
Texana, Lake	106	153,246	109,548	71	-6,224	-4	-38,198	-25
TOTAL		282,109	238,411	85	-6,224	-2	-38,198	-14
			-		-			
		SOUTH	SRN					
Choke Canyon Reservoir	107	695,262	559,238	80	-7,883	-1	-111,430	-16
Corpus Christi, Lake	108	256,961	164,855	64	-3,961	-2	-90,841	-35
*Falcon Reservoir (Texas)	109	1,551,034	1,630,000	105	-20,000	-1	424,000	27
*Falcon Reservoir (TX & Mexico)	(109)	2,646,817	2,646,817	100	0	0	1,211,817	46
TOTAL		2,503,257	2,354,093	94	-31,844	-1	221,729	9
STATE TOTAL		31,092,522	24,902,717	80	-159,829	-1	-2,635,464	-8

* Conservation volume is used as conservation storage capacity because the dead storage is unknown.

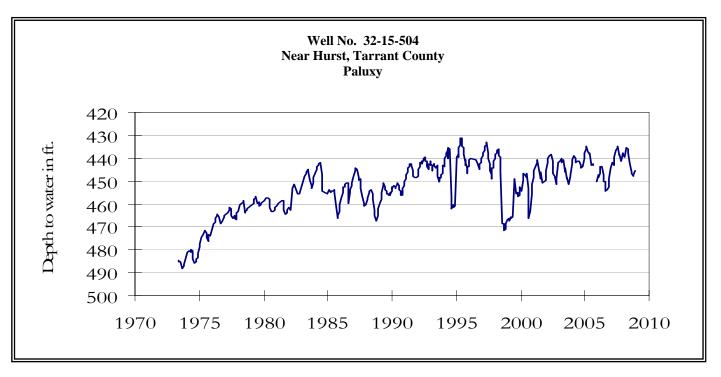
Note

Conservation storage capacity is the space available to store water above the lowest outlet and below the 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 the dead storage. Conservation storage percentage is based on the conservation storage capacity of the reservoir and the conservation storage in the reservoir on date shown. Percent change is given by 100*(current conservation storage - past conservation storage in all reservoirs.

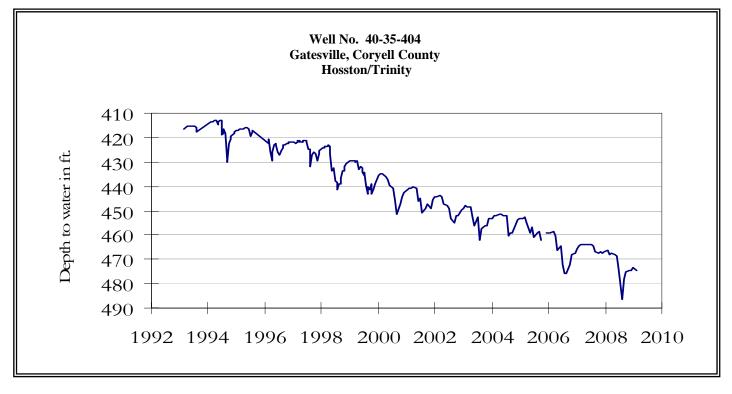
GROUND WATER LEVELS IN OBSERVATION WELLS



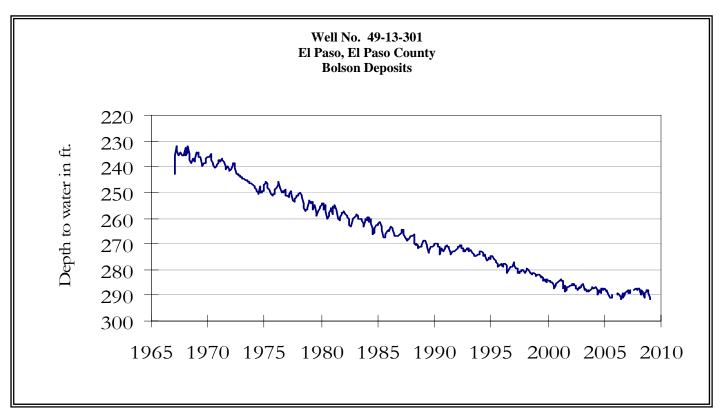
The water-level measurement was not available for this Ogallala Aquifer well (recorder under repair). The graph presented is from last month's report.



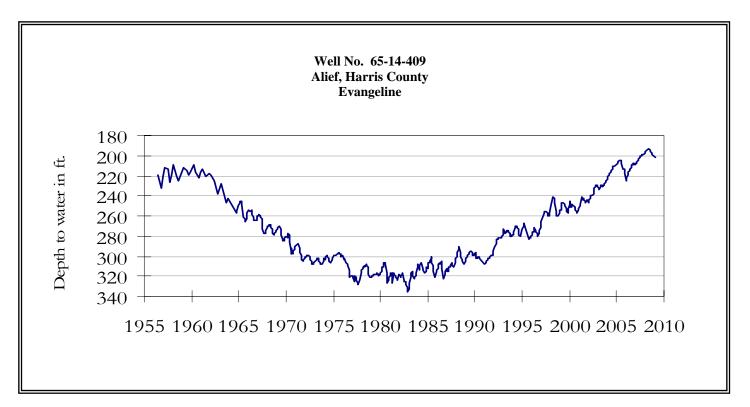
The late January water level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 446.34 feet below land surface. This measurement was 6.58 feet below last year's measurement, and 68.34 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September or October 2005 and December 2008.



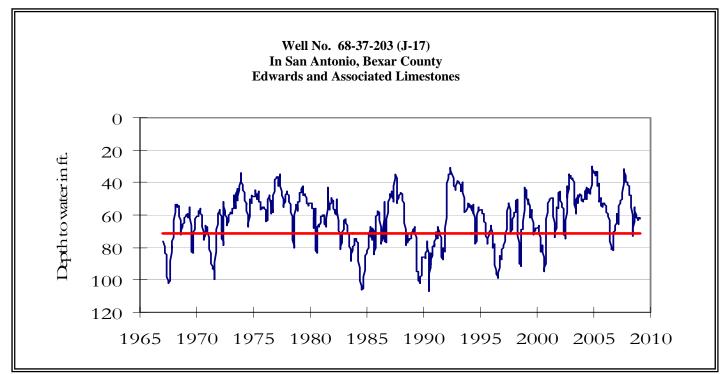
The late January water level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 474.84 feet below land surface. This water level was 1.58 feet below last month's measurement, 8.33 feet below last year's measurement, and 182.84 feet below the initial measurement recorded in 1955. No water level measurement was recorded for October 2005.



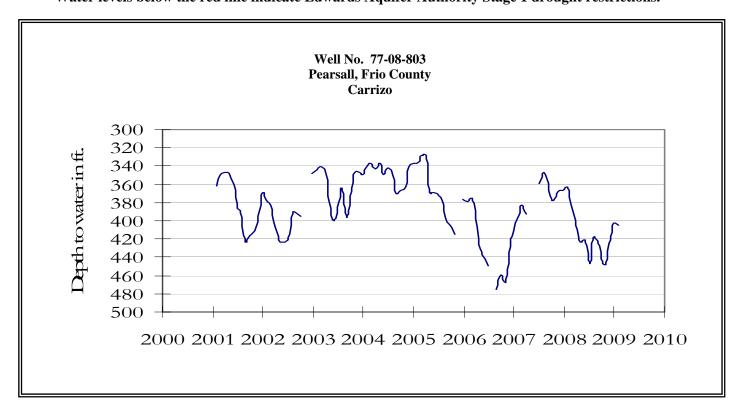
The late January water level measurement in this Hueco Bolson Aquifer well, elevation 3,882 feet above sea level, was 291.37 feet below land surface. This water level was 0.24 feet below last month's measurement, 4.06 feet below last year's measurement, and 59.47 feet below the initial measurement in 1964. No water level measurements were recorded for May through July 2007, and October or December 2005.



The late January water level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level, was 201.43 feet below land surface. This was 0.35 feet below last month's measurement, 5.26 feet below last year's measurement, and 65.93 feet below the initial measurement recorded in 1947.

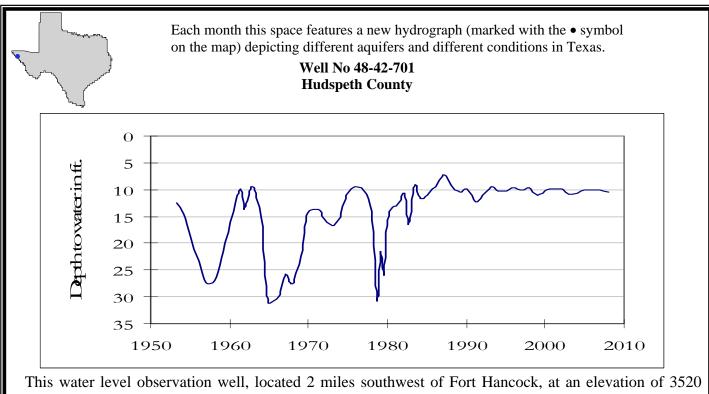


The late January water level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 62.23 feet below land surface. This was 0.85 feet below last month's measurement, 19.76 feet below last year's measurement, and 15.59 feet below the initial measurement recorded in 1962. ***** Water levels below the red line indicate Edwards Aquifer Authority Stage 1 drought restrictions. *****



The late January water level measurement in this Carrizo-Wilcox Aquifer well, elevation 652 feet above sea level, was 404.65 feet below land surface. This was 2.30 feet below last month's measurement, 41.19 feet below last year's measurement, and 124.65 feet below the initial measurement recorded in 1963. No water level measurements were recorded for April and May 2007, July 2006, November 2005, and October through November 2002.

HYDROGRAPH OF THE MONTH



This water level observation well, located 2 miles southwest of Fort Hancock, at an elevation of 3520 feet ASL, was completed in the Hueco Bolson aquifer. Nearly 90 percent of the water pumped from the Hueco Bolson is used for public supply. The world's largest inland desalination plant located in El Paso uses brackish groundwater from the Hueco Bolson aquifer

January, 2009

Water level measurements were available for six of the seven key monitoring wells. Water levels declined in all reporting monitoring wells since the beginning of January, ranging from 0.24 feet in the El Paso Co. Hueco Bolson well to 2.30 feet in the Frio Co. Carrizo well. The J-17 well in San Antonio recorded a water level of 62.23 feet below land surface, 0.85 feet below last month's measurement. This water level is 8.77 feet above the Stage 1 critical management level.

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