Texas Water Development Board





RESERVOIR STORAGE

February 2011

At the end of February, total storage in the state's 109 major reservoirs was at 25.05 million acre-feet*, or 81% of the total conservation storage capacity. This is within 0.005 million acre-feet of a month ago.

Storage was at 100% in 14 reservoirs, three more than last month. Six lakes were at or below 10% full: O. C. Fisher Lake Reservoir and Lake Meredith (total) were effectively empty, E.V. Spence Reservoir was at 3%, Hords Creek Lake at 4%, Lake J. B. Thomas at 5%, and Lake Electra was at 6% full.

One region had combined storage above 90%: Southern 94%. The High Plains (5%) and Trans-Pecos regions (25%) remained very low. Over the month, storage increased in the North Central and East regions, remained steady in the Trans-Pecos and decreased in the others. Over the 12-month period, storage increased in 3 and decreased in 6 regions.

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

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS



Figures are based on the 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. Reservoirs with a conservation storage capacity of 5,000 acre-feet or greater are included.

PO BOX 13231 • 1700 N. Congress Avenue • Austin, TX 78711-3231 Telephone (512) 463-7847 • Telefax (512) 475-2053 • 1-800-RELAYTX (for the hearing impaired)

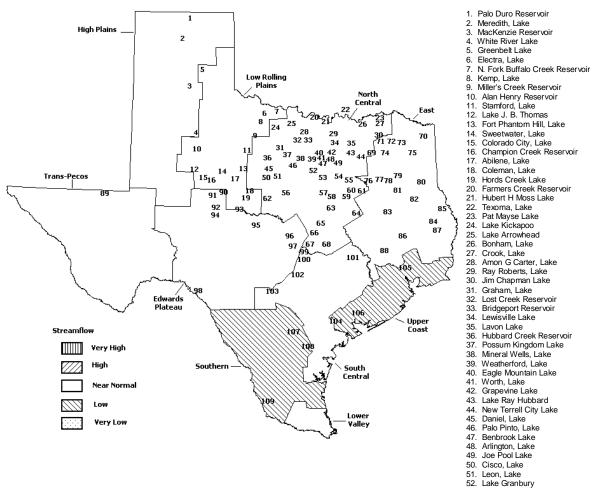
STREAMFLOW

Of 29 reporting index stations in February, computed 30-day mean flows were low (70% - 95%) at 10 stations, very high (0% - 5%) at 1 station, and near normal (30% - 70%) at the remaining 18 stations. Compared to January, flows have increased at 12 index stations and decreased at 16 stations.

On a regional basis, flows in February were low in the Upper Coast and Southern regions, and near normal everywhere else. Streamflow in the Lower Valley region is not monitored.

FEBRUARY STREAMFLOW CONDITIONS

Reservoirs Shown on Map



56. Proctor Lake 57. Whitney Lake 58. Aquilla Lake 59 Navarro Mills Lake Halbert, Lake Richland-Chambers Reservoir 62 Lake Brownwood Waco Lake 64. Limestone, Lake 65. Belton Lake Stillhouse Hollow Lake Georgetown, Lake Granger Lake Tawakoni, Lake Wright Patman Lake Sulphur Springs, Lake 72. Cypress Springs, Lake Bob Sandlin, Lake Fork Reservoir, Lake O' the Pines, Lake 75. Cedar Creek Reservoir Trinity 77. 78. Athens, Lake Palestine, Lake Tyler, Lake 80. Murvaul, Lake Jacksonville, Lake 82 Nacogdoches, Lake 83. Houston County Lake Sam Rayburn Reservoir 85. Toledo Bend Reservoir 86. Livingston, Lake 87. B. A. Steinhagen Lake 88. Conroe, Lake Red Bluff Reservoir 90. Oak Creek Reservoir E. V. Spence Reservoir O. C. Fisher Lake 93. O. H. Ivie Reservoir Twin Buttes Reservoir Brady Creek Reservoir Buchanan, Lake Lyndon B Johnson, Lake 98 Amistad Reservoir Intl. 99. Travis, Lake 100 Austin, Lake Somerville Lake

Canyon Lake

Lake Houston

Texana, Lake Choke Canyon Reservoir

Coleto Creek Reservoir

Lake Corpus Christi
 Falcon Reservoir, Intl.

103 Medina Lake

106

Pat Cleburne, Lake

Waxahachie, Lake Bardwell Lake

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No.	Conservation	Conservat	ion	Change sin	ce	Change sin	ce	
or Reservoir	on	Storage	Storage	•	Late Janua	ry	Late February		
	Map	Capacity	Late Feb.	2011	2011		2010		
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
		HIGH PL	AINS						
Palo Duro Reservoir	1	60,897	11,080	18	-1,052	-2	10,798	18	
Meredith, Lake (Texas)	2	500,000	3,953	1	325	0	-26,777	-5	
Meredith, Lake (Texas & Oklahoma)	(2)	779,556	3,953	1	325	0	-26,777	-3	
MacKenzie Reservoir	3	46,429	5,944	13	-59	0	243	1	
White River Lake	4	29,880	9,991	33	-116	0	7,054	24	
TOTAL		637,206	30,968	5	-902	0	-8,682	-1	
		LOW ROLLING	PLAINS						
Greenbelt Lake	5	59,500	16,221	27	51	0	471	1	
*Electra, Lake	lectra, Lake 6		355	6	-12	0	-301	-5	
N. Fork Buffalo Crk Reservoir	7	15,400	5,767	37	-97	-1	-155	-1	
Kemp, Lake	8	245,308	236,573	96	-2,711	-1	47,404	19	
Millers Creek Reservoir	9	27,888	18,497	66	-265	-1	3,827	14	
Alan Henry Reservoir	10	94,808	88,571	93	-257	0	3,563	4	
Stamford, Lake	11	51,570	49,488	96	-595	-1	6,863	13	
J B Thomas, Lake	12	199,931	10,042	5	-548	0	-29	0	
Fort Phantom Hill, Lake	13	70,030	57,647	82	-203	0	4,741	7	
Sweetwater, Lake	14	10,006	5,510	55	-4	0	-515	-5	
Colorado City, Lake	15	31,793	14,433	45	-203	-1	-3,265	-10	
Champion Creek Reservoir	16	41,618	6,763	16	-34	0	-1,035	-2	
Abilene, Lake	17	6,099	4,658	76	-20	0	1,484	24	
Coleman, Lake	18	38,076	20,822	55	-179	0	-3,103	-8	
Hords Creek Lake	19	5,684	241	4	-62	-1	-1,188	-21	
TOTAL		903,337	535,588	59	-5,139	-1	58,762	7	
		NORTH CE	NTRAL						
Nocona, Lake (Farmers Crk)	20	21,445	18,458	86	12	0	-2,987	-14	
Hubert H Moss Lake	21	24,058	24,058	100	193	1	0	0	
Texoma, Lake (Texas)	22	1,185,688	1,172,643	99	-18,382	-2	-13,045	-1	
Texoma, Lake (Texas & Oklahoma)	(22)	2,371,376	2,345,287	99	-36,764	-2	-26,089	-1	
*Pat Mayse Lake	23	117,844	102,180	87	-1,158	-1	-15,920	-14	
Kickapoo, Lake	24	85,825	67,960	79	-671	-1	11,268	13	
Arrowhead, Lake	25	235,997	191,619	81	-378	0	26,119	11	
Bonham, Lake	26	11,026	10,131	92	-113	-1	-895	-8	
Crook, Lake	27	9,195	8,926	97	734	8	-269	-3	
Amon G Carter, Lake	28	19,903	17,610	88	130	1	-2,293	-12	
Ray Roberts, Lake	29	798,758	764,244	96	3,134	0	-34,514	-4	
Jim Chapman Lake (Cooper)	30	260,332	147,495	57	1,984	1	-112,837	-43	
Graham, Lake	31	45,260	42,487	94	237	1	0	0	
*Lost Creek Reservoir	32	11,950	10,979	92	-7	0	-971	-8	
Bridgeport, Lake	33	366,236	319,845	87	-3,564	-1	-12,056	-3	
Lewisville Lake	34	563,228	548,028	97	800	0	4,040	1	
Lavon Lake	35	443,844	349,846	79	6,155	1	-93,998	-21	
Hubbard Creek Reservoir	36	318,067	190,792	60	-223	0	-25,070	-8	
Possum Kingdom Lake	37	540,340	516,093	96	487	0	-3,728	-1	
*Mineral Wells, Lake	38	7,065	6,385	90	30	0	-680	-10	
Weatherford, Lake	39	17,789	14,547	82	-39	0	-4,086	-23	
Eagle Mountain Lake	40	179,880	164,898	92	913	1	-17,602	-10	
Worth, Lake	41	24,500	19,085	78	-228	-1	-5,415	-22	
Grapevine Lake	42	164,702	157,721	96	2,626	2	-6,981	-4	
Ray Hubbard, Lake	43	452,040	396,426	88	3,774	1	-55,614	-12	
New Terrell City Lake	44	8,583	7,655	89	403	5	-928	-11	
Daniel, Lake	45	9,435	4,481	47	17	0	118	1	
Palo Pinto, Lake	46	26,827	21,933	82	-332	-1	-5,217	-19	
Benbrook Lake	47	85,648	84,418	99	1,700	2	-1,230	-1	
Arlington, Lake	48	40,156	38,475	96	-286	-1	-170	0	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake		Conservation	Conservat	ion	Change sin	Ce	Change since		
or Reservoir		Storage	Storage		Late Janua		Late February		
or Reservoir	on Map	Capacity	Late Feb. 2011		2011	-1	2010		
	пар	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet) (%)		
	NORT	H CENTRAL (•	(-,	((-,	(
Joe Pool Lake	49	142,861	142,861	100	0	0	0	0	
*Cisco, Lake		26,000	14,104	54	-58	0	-2,636	-10	
Leon, Lake		26,421	16,106	61	-112	0	-2,502	-9	
Granbury, Lake		128,046	127,064	99	5,512	4	2,039	2	
Pat Cleburne, Lake	52 53	26,008	24,615	95	47	0	-1,115	-4	
Waxahachie, Lake	54	10,779	9,478	88	506	5	-1,301	-12	
Bardwell Lake	55	46,122	46,122	100	0	0	0	0	
Proctor Lake	56	55, 4 57	31,823	57	-362	-1	-10,705	-19	
Whitney, Lake	57	553,349	374,919	68	-4,921	-1	-144,770	-26	
Aquilla Lake	58	44,460	44,247	100	1,035	2	-845	-2	
Navarro Mills Lake	59	49,826	49,826	100	0	0	-5,991	-12	
*Halbert, Lake	60	6,033	3,827	63	-84	-1	-1,563	-26	
Richland-Chambers Reservoir	61	1,087,839	1,010,467	93	0	0	-93,349	-9	
*Brownwood, Lake	62	131,429	78,211	60	-800	-1	-15,299	-12	
Waco, Lake	62	198,943	198,943	100	1,251	1	0	0	
Limestone, Lake	64	208,015	180,364	87	-460	0	-27,407	-13	
Belton Lake	65	435,225	400,019	92	922	0	-35,206	-8	
Stillhouse Hollow Lake	66	227,771	227,771	100	0	0	0	0	
Georgetown, Lake	67	36,823	33,208	90	-1,180	-3	-3,615	-10	
Granger Lake	68	50,779	50,779	100	1,950	4	1,838	4	
Tawakoni, Lake	69	888,126	788,667	89	6,938	1	-99,459	-11	
TOTAL		10,455,933	9,272,839	89	8,132	0	-816,847	-8	
		EAS'							
Wright Patman Lake	70	122,593	122,593	100	0	0	0	0	
*Sulphur Springs, Lake	71 72	17,838	10,983	62	1,018	6	-6,855	-38	
Cypress Springs, Lake		66,756	64,422	97	0	0	-3,267	-5	
Bob Sandlin, Lake		200,579	175,734	88	3,374	2	-24,845	-12	
Fork Reservoir, Lake		604,927	525,241	87	8,777	1	-79,686	-13	
O the Pines, Lake		238,933	238,933	100	1,147	0	0	0	
Cedar Creek Reservoir in Trinity		644,686	570,496	88	9,384	1	-74,190	-12	
Athens, Lake	77	29,435	28,341	96	682	2	-1,094	-4	
Palestine, Lake	78	370,907	343,650	93	6,799	2	-27,257	-7	
Tyler, Lake	79	73,256	67,515	92	1,179	2	-5,741	-8	
Murvaul, Lake	80	38,284	33,148	87	547	1	-5,136	-13	
Jacksonville, Lake	81	25,670	24,312	95	468	2	-5,988	-23	
Nacogdoches, Lake	82	39,521	29,465	75	-140	0	-10,056	-25	
Houston County Lake	83	17,113	16,744	98	444	3	-369	-2	
Sam Rayburn Reservoir	84	2,857,077	2,064,967	72	47,008	2	-792,110	-28	
Toledo Bend Reservoir (Texas)	85 (85)	2,236,450	1,631,770	73 73	13,932	1 1	-578,692 -1 157 385	-26 -26	
Toledo Bend Reservoir (TX & LA) *Livingston, Lake	(85) 86	4,472,900	3,263,540		27,864 0	0	-1,157,385 0	-26 0	
*Livingston, Lake B A Steinhagen Lake	86 87	1,741,867 66,966	1,741,867 52,779	100 79	-961	-1	1,661	2	
Conroe, Lake	88	416,188	388,698	93	-961	-1	-27,490	-7	
TOTAL	00	9,809,046	8,131,658	83	93,658	1	-1,641,115	-17	
		2,003,040	5,151,050	33	55,050	-	_,011,113	- /	
		TRANS-P	ECOS						
Red Bluff Reservoir	89	289,670	71,962	25	120	0	-925	0	
TOTAL		289,670	71,962	25	120	0	-925	0	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake	No. Conservation		Conservation		Change sin	ce	Change since		
or Reservoir	on Storage		Storage		Late January		Late February		
	Map	Capacity	Late Feb.	2011	2011		2010		
		(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
		EDWARDS P	LATEAU						
Oak Creek Reservoir	90	39,260	22,615	58	-126	0	-1,333	-3	
E V Spence Reservoir	91	517,272	13,051	13,051 3		0	-11,503	-2	
O C Fisher Lake	92	79,483	0	0	0	0	0	0	
*O H Ivie Reservoir	93	554,335	174,287	31	-2,866	-1	-67,030	-12	
Twin Buttes Reservoir	94	177,850	20,137	20,137 11		74 0		-8	
Brady Creek Reservoir	95	29,110	12,778	44	-87	0	-4,085	-14	
Buchanan, Lake	96	875,610	661,555	76	-5,182	-1	69,457	8	
Lyndon B Johnson, Lake	97	113,323	112,351	99	668	1	397	0	
*Amistad Reservoir (Texas)	98	1,840,849	1,841,000	100	0	0	106,000	6	
*Amistad Reservoir (TX & Mexico)	(98)	3,275,532	3,275,532	100	0	0	108,532	3	
TOTAL		4,227,092	2,857,774	68	-8,469	0	78,464	2	
		SOUTH CE	NTRAL						
Travis, Lake	99	1,113,255	851,072	76	-28,822	-3	-189,561	-17	
*Austin, Lake	100	21,804	20,790	95	13,567	62	-272	-1	
Somerville Lake	101	147,104	127,229	86	-414	0	-19,875	-14	
Canyon Lake	102	378,781	366,166	97	-2,903	-1	-12,615	-3	
Medina Lake	103	254,823	159,568	63	-4,626	-2	64,212	25	
*Coleto Creek Reservoir	104	31,040	31,040	100	0	0	0	0	
TOTAL		1,946,807	1,555,865	80	-23,198	-1	-158,111	-8	
		UPPER C	OAST						
Houston, Lake	105	128,863	128,863	100	0	0	0	0	
Texana, Lake	106	153,246	120,926	79	-6,787	-4	-32,320	-21	
TOTAL		282,109	249,789	89	-6,787	-2	-32,320	-11	
		SOUTHE	ERN						
Choke Canyon Reservoir	107	695,262	550,411	79	-3,621	-1	60,253	9	
Corpus Christi, Lake	108	256,961	222,442	87	-3,892	-2	62,656	24	
*Falcon Reservoir (Texas)	109	1,551,034	1,568,000	101	-48,000	-3	529,000	34	
*Falcon Reservoir (TX & Mexico)	(109)	2,646,817	2,520,000	95	29,000	1	751,000	28	
TOTAL		2,503,257	2,340,853	94	-55,513	-2	651,909	26	
STATE TOTAL		31,054,457	25,047,296	81	1,902	0	-1,868,865	-6	

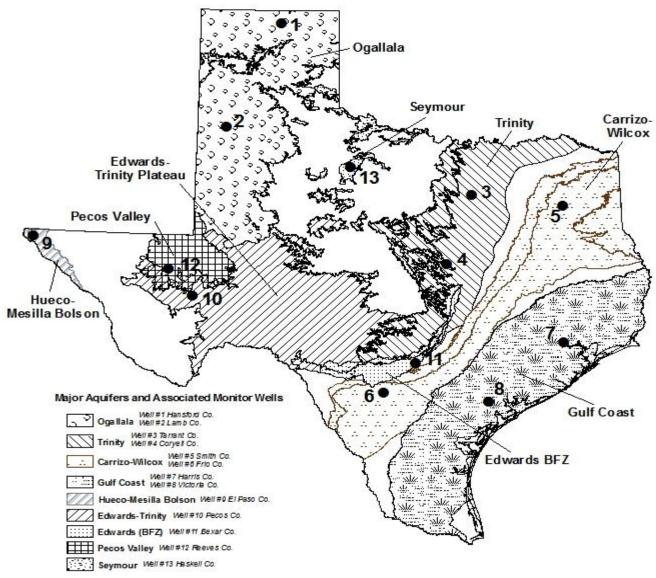
^{*} Conservation volume is used as conservation storage capacity because the dead storage is unknown.

Notes:

The large monthly increase (62%) in Lake Austin's storage was due to restoration of its water level after maintenance work.

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)/conservation storage capacity. Figures shown are for the Texas share of conservation storage in all reservoirs.

GROUNDWATER LEVELS IN OBSERVATION WELLS



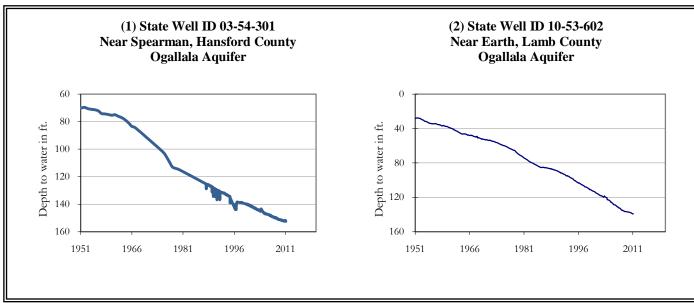
February, 2011

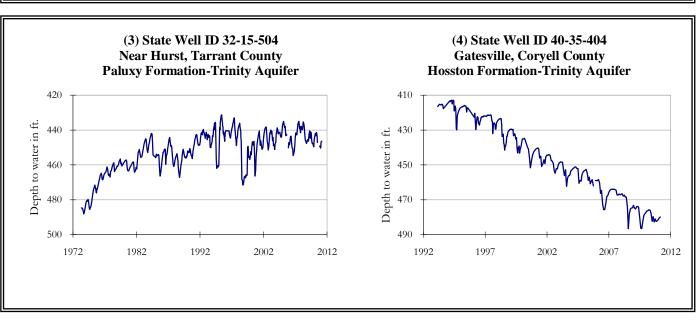
Water level measurements were available for all 13 key monitoring wells. Water levels rose in 7 of the 12 monitoring wells since the beginning of February ranging from 0.09 feet in the Haskell County Seymour Aquifer well to 1.83 feet in the Pecos County Edwards-Trinity Aquifer well. Water levels declined in the remaining monitoring wells, ranging from 0.05 feet in the Lamb County Ogallala Aquifer and Victoria County Gulf Coast Aquifer wells to 2.65 feet in the Bexar County J-17 Edwards Aquifer well. The J-17 well in San Antonio recorded a water level of 61.56 feet below land surface. This water level is 9.44 feet above the Stage 1 critical management level.

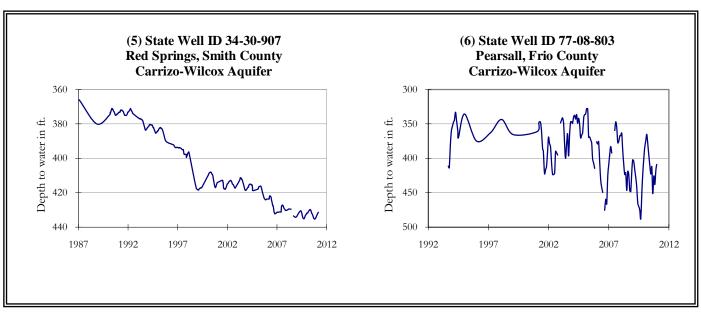
	(1) Hansford 0354301	(2) Lamb 1053602	(3) Tarrant 3215504	(4) Coryell 4035404	(5) Smith 3430907	(6) Frio 7708803	(7) Harris 6514409	(8) Victoria 8017502	(9) El Paso 4913301	(10) Pecos 5216802	(11) Bexar 6837203	(12) Reeves 4644501	(13) Haskell 2135748
February 2011	152.44	139.16	446.41	479.83	431.37	390.21	195.32	32.68	291.41	191.88	61.56	143.92	43.62
January 2011	152.30	139.11	446.80	480.32	432.18	N/A	195.89	32.63	291.51	193.71	58.91	142.53	43.71
Month Change	-0.14	-0.05	0.39	0.49	0.81	N/A	0.57	-0.05	0.1	1.83	-2.65	-1.39	0.09
Year Change	-0.68	-1.74	-4.48	-3.54	-0.49	-25.01	8.95	-0.08	0.91	-12.6	-12.44	-1.96	-0.18
Historical Change	-82.32	-111.01	-68.41	-187.83	-65.37	-110.21	-59.82	1.32	-59.51	55	-14.92	-51.83	-2.29

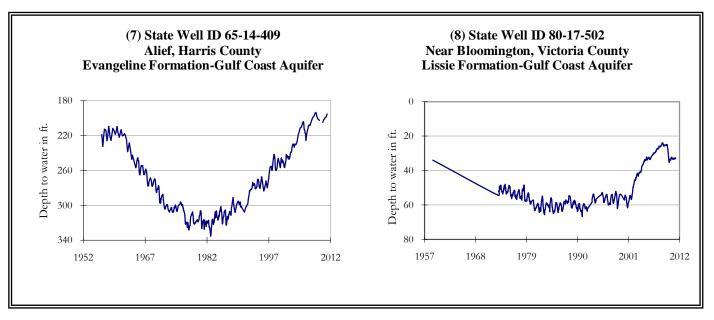
^{*} ID is used in this publication to differentiate between the monitoring well number (1 - 13) as displayed on the aquifer map and the TWDB's six- or seven-digit state well "identification" number.

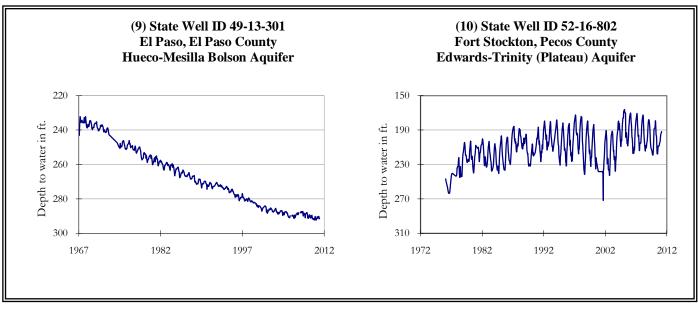
FEBRUARY GROUNDWATER LEVELS IN OBSERVATION WELLS

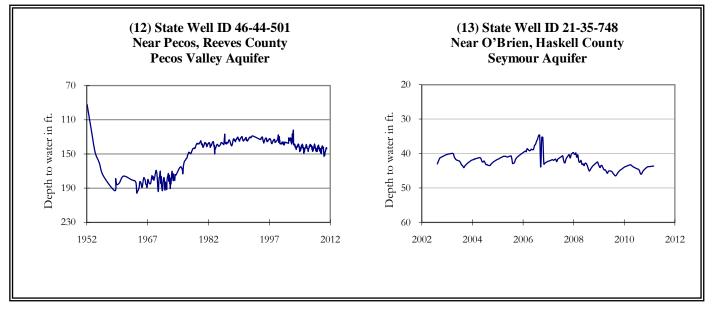


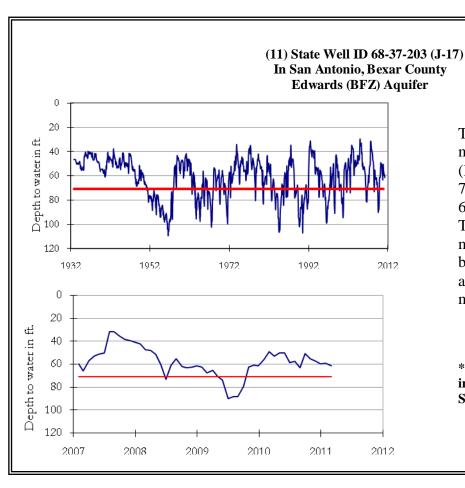












The late February water level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 61.56 feet below land surface. This was 2.65 feet below last month's measurement, 12.44 feet below last year's measurement, and 14.92 feet below the initial measurement recorded in 1932.

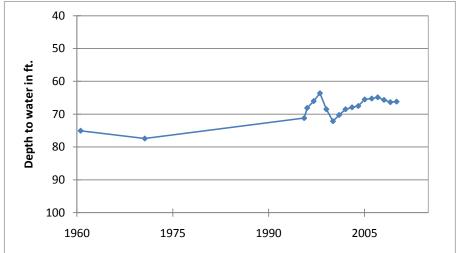
*** Water levels below the red line indicate Edwards Aquifer Authority Stage 1 drought restrictions. ***

HYDROGRAPH OF THE MONTH



Each month this space features a new hydrograph (marked with the ● symbol on the map) depicting different aquifers and different conditions in Texas.

State Well ID 4754201 Culberson County



This Rustler Aquifer water level observation well is located 34 miles northeast of Van Horn at an elevation of 3,756 feet above sea level. No significant water level declines have been observed in this well. The Rustler Aquifer consists of dolomite, limestone, and gypsum of the Rustler Formation, which extends into the subsurface toward the center of the Delaware Basin to the east. Although some parts of the aquifer produce fresh water containing less than 1,000 milligrams per liter of total dissolved solids, the water is generally slightly to moderately saline and contains total dissolved solids ranging between 1,000 and 4,600 milligrams per liter.

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