

# Texas Water Development Board



**W**ater **Conditions**

## RESERVOIR STORAGE

*December 2010*

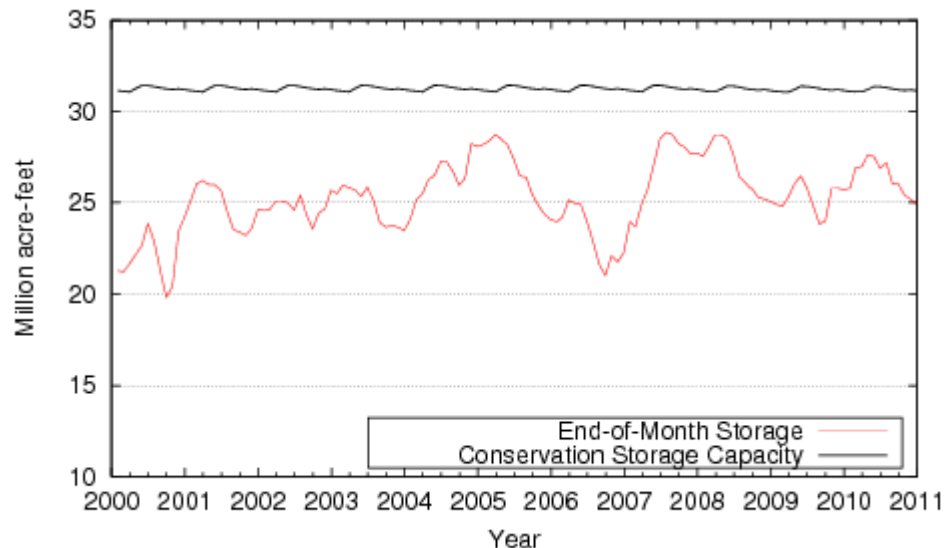
At the end of December, total storage in the state's 109 major reservoirs was at 24.9 million acre-feet, or 80% of the total conservation storage capacity. This is 0.27 million acre-feet less than a month ago.

Storage was at 100% in 7 reservoirs, one less 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%, Lake J. B. Thomas was at 6%, and Lake Electra and Hords Creek were at 7% full.

Two regions had combined storage above 90%: Upper Coast 90%, and Southern 98%. The High Plains (5%) and Trans-Pecos regions (24%) remained very low. Storage decreased in all except the Trans-Pecos and Southern regions over the month. Over the 12-month period, storage increased in 5 and decreased in 4 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.

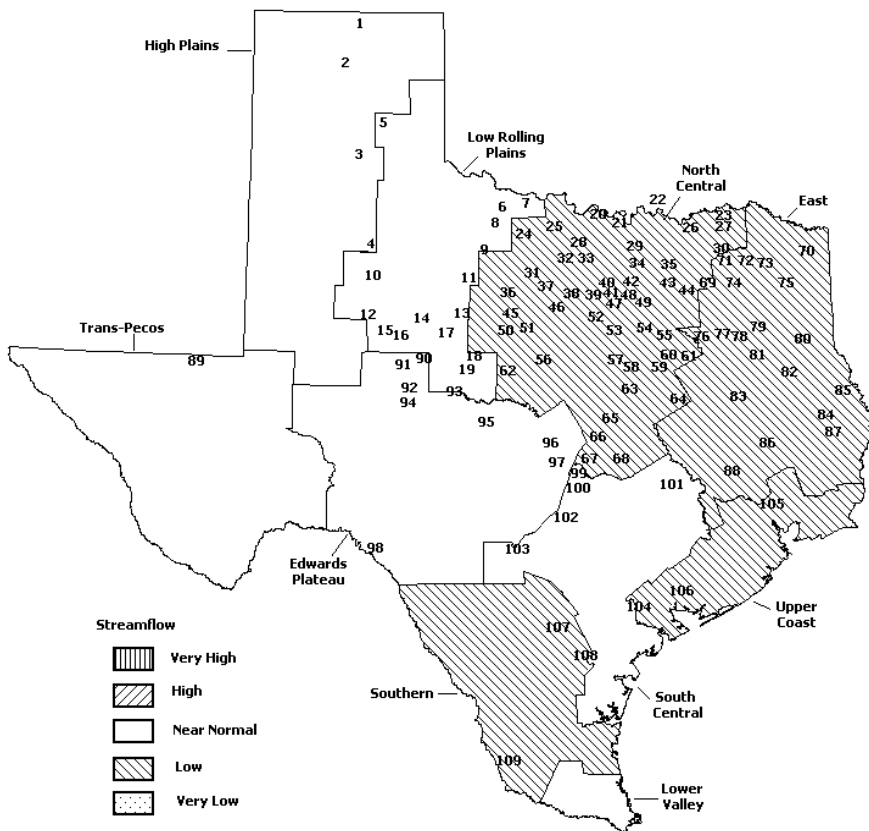
# STREAMFLOW

Of 29 reporting index stations in December, computed 30-day mean flows were low (70% - 95%) at 14 stations, very low (>95%) at 1 station, and near normal (30% - 70%) at the remaining 14 stations. Compared to November, flows have increased at 13 index stations and decreased at 15 stations.

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

## DECEMBER STREAMFLOW CONDITIONS

Reservoirs Shown on Map



1. Palo Duro Reservoir
2. Meredith, Lake
3. MacKenzie Reservoir
4. White River Lake
5. Greenbelt Lake
6. Electra, Lake
7. N. Fork Buffalo Creek Reservoir
8. Kemp, Lake
9. Miller's Creek Reservoir
10. Alan Henry Reservoir
11. Stamford, Lake
12. Lake J. B. Thomas
13. Fort Phantom Hill, Lake
14. Sweetwater, Lake
15. Colorado City, Lake
16. Champion Creek Reservoir
17. Abilene, Lake
18. Coleman, Lake
19. Hords Creek Lake
20. Farmers Creek Reservoir
21. Hubert H Moss Lake
22. Texoma, Lake
23. Pat Mayse Lake
24. Lake Kickapoo
25. Lake Arrowhead
26. Bonham, Lake
27. Crook, Lake
28. Amon G Carter, Lake
29. Ray Roberts, Lake
30. Jim Chapman Lake
31. Graham, Lake
32. Lost Creek Reservoir
33. Bridgeport Reservoir
34. Lewisville Lake
35. Lavon Lake
36. Hubbard Creek Reservoir
37. Possum Kingdom Lake
38. Mineral Wells, Lake
39. Weatherford, Lake
40. Eagle Mountain Lake
41. Worth, Lake
42. Grapevine Lake
43. Lake Ray Hubbard
44. New Terrell City Lake
45. Daniel, Lake
46. Palo Pinto, Lake
47. Benbrook Lake
48. Arlington, Lake
49. Joe Pool Lake
50. Cisco, Lake
51. Leon, Lake
52. Lake Granbury
53. Pat Cleburne, Lake
54. Waxahachie, Lake
55. Bardwell Lake
56. Proctor Lake
57. Whitney Lake
58. Aquilla Lake
59. Navarro Mills Lake
60. Halbert, Lake
61. Richland-Chambers Reservoir
62. Lake Brownwood
63. Waco Lake
64. Limestone, Lake
65. Belton Lake
66. Stillhouse Hollow Lake
67. Georgetown, Lake
68. Granger Lake
69. Tawakoni, Lake
70. Wright Patman Lake
71. Sulphur Springs, Lake
72. Cypress Springs, Lake
73. Bob Sandlin, Lake
74. Fork Reservoir, Lake
75. O' the Pines, Lake
76. Cedar Creek Reservoir Trinity
77. Athens, Lake
78. Palestine, Lake
79. Tyler, Lake
80. Murvail, Lake
81. Jacksonville, Lake
82. Nacogdoches, Lake
83. Houston County Lake
84. Sam Rayburn Reservoir
85. Toledo Bend Reservoir
86. Livingston, Lake
87. B. A. Steinhagen Lake
88. Conroe, Lake
89. Red Bluff Reservoir
90. Oak Creek Reservoir
91. E. V. Spence Reservoir
92. O. C. Fisher Lake
93. O. H. Ivie Reservoir
94. Twin Buttes Reservoir
95. Brady Creek Reservoir
96. Buchanan, Lake
97. Lyndon B Johnson, Lake
98. Amistad Reservoir, Intl.
99. Travis, Lake
100. Austin, Lake
101. Somerville Lake
102. Canyon Lake
103. Medina Lake
104. Coletto Creek Reservoir
105. Lake Houston
106. Texana, Lake
107. Choke Canyon Reservoir
108. Lake Corpus Christi
109. Falcon Reservoir, Intl.

## CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation Storage		Change since Late November 2010		Change since Late December 2009		
		Capacity (acre-feet)	Late Dec. (acre-feet)	2010 (%)	(acre-feet)	(%)	(acre-feet)	(%)
<b>HIGH PLAINS</b>								
Palo Duro Reservoir	1	60,897	13,594	22	-1,316	-2	13,253	22
Meredith, Lake (Texas)	2	500,000	3,835	1	-650	0	-24,470	-5
Meredith, Lake (Texas & Oklahoma)	(2)	779,556	3,835	0	-650	0	-24,470	-3
MacKenzie Reservoir	3	46,429	6,084	13	-84	0	329	1
White River Lake	4	29,880	10,251	34	-239	-1	7,273	24
<b>TOTAL</b>		<b>637,206</b>	<b>33,764</b>	<b>5</b>	<b>-2,289</b>	<b>0</b>	<b>-3,615</b>	<b>-1</b>
<b>LOW ROLLING PLAINS</b>								
Greenbelt Lake	5	59,500	16,120	27	-134	0	922	2
*Electra, Lake	6	5,626	393	7	-26	0	-106	-2
N. Fork Buffalo Crk Reservoir	7	15,400	6,028	39	-222	-1	1,483	10
Kemp, Lake	8	245,308	245,308	100	0	0	82,170	33
Millers Creek Reservoir	9	27,888	19,197	69	-371	-1	6,804	24
Alan Henry Reservoir	10	94,808	89,706	95	-919	-1	2,755	3
Stamford, Lake	11	51,570	51,123	99	-447	-1	15,805	31
J B Thomas, Lake	12	199,931	11,230	6	-578	0	1,807	1
Fort Phantom Hill, Lake	13	70,030	59,590	85	-782	-1	13,405	19
Sweetwater, Lake	14	10,006	5,543	55	-253	-3	-352	-4
Colorado City, Lake	15	31,793	14,819	47	-184	-1	-2,768	-9
Champion Creek Reservoir	16	41,618	6,883	17	-59	0	-785	-2
Abilene, Lake	17	6,099	4,880	80	-106	-2	3,081	51
Coleman, Lake	18	38,076	21,295	56	-331	-1	-170	0
Hords Creek Lake	19	5,684	378	7	-74	-1	-1,018	-18
<b>TOTAL</b>		<b>903,337</b>	<b>552,493</b>	<b>61</b>	<b>-4,486</b>	<b>0</b>	<b>123,033</b>	<b>14</b>
<b>NORTH CENTRAL</b>								
Nocona, Lake (Farmers Crk)	20	21,445	18,598	87	-152	-1	-1,189	-6
Hubert H Moss Lake	21	24,058	23,726	99	395	2	-332	-1
Texoma, Lake (Texas)	22	1,262,640	1,231,589	98	-31,051	-2	-15,840	-1
Texoma, Lake (Texas & Oklahoma)	(22)	2,525,281	2,463,178	98	-62,103	-2	-31,680	-1
*Pat Mayse Lake	23	117,844	105,603	90	527	0	-12,497	-11
Kickapoo, Lake	24	85,825	70,485	82	-1,717	-2	24,723	29
Arrowhead, Lake	25	235,997	195,873	83	-1,199	-1	43,368	18
Bonham, Lake	26	11,026	10,491	95	236	2	-452	-4
Crook, Lake	27	9,195	8,141	89	290	3	-1,054	-11
Amon G Carter, Lake	28	19,903	17,770	89	-58	0	-942	-5
Ray Roberts, Lake	29	798,758	765,385	96	-4,560	-1	-33,373	-4
Jim Chapman Lake (Cooper)	30	260,332	148,156	57	-13,141	-5	-112,176	-43
Graham, Lake	31	45,260	42,772	95	71	0	5,879	13
*Lost Creek Reservoir	32	11,950	11,083	93	-80	-1	-867	-7
Bridgeport, Lake	33	366,236	331,118	90	-8,586	-2	60,472	17
Lewisville Lake	34	563,228	543,495	96	267	0	-493	0
Lavon Lake	35	443,844	335,484	76	2,371	1	-108,360	-24
Hubbard Creek Reservoir	36	318,067	193,248	61	-3,349	-1	-16,194	-5
Possum Kingdom Lake	37	540,340	518,200	96	2,431	0	58,773	11
*Mineral Wells, Lake	38	7,065	6,416	91	-84	-1	-260	-4
Weatherford, Lake	39	17,789	14,724	83	-330	-2	-754	-4
Eagle Mountain Lake	40	179,880	163,238	91	-498	0	-10,350	-6
Worth, Lake	41	24,500	18,955	77	617	3	-1,917	-8
Grapevine Lake	42	164,702	153,942	93	-2,370	-1	-10,760	-7
Ray Hubbard, Lake	43	452,040	386,893	86	-10,327	-2	-65,147	-14
New Terrell City Lake	44	8,583	7,043	82	-40	0	-1,540	-18
Daniel, Lake	45	9,435	4,598	49	-145	-2	291	3
Palo Pinto, Lake	46	26,827	22,830	85	-804	-3	3,247	12
Benbrook Lake	47	85,648	80,769	94	2,620	3	-4,879	-6
Arlington, Lake	48	40,156	37,114	92	1,706	4	1,975	5

## CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage		Change since Late November 2010		Change since Late December 2009		
			Late Dec. (acre-feet)	2010 (%)	(acre-feet)	(%)	(acre-feet)	(%)	
<b>NORTH CENTRAL (Continue)</b>									
Joe Pool Lake	49	142,861	141,827	99	73	0	-1,034	-1	
*Cisco, Lake	50	26,000	14,342	55	-209	-1	-2,268	-9	
Leon, Lake	51	26,421	16,397	62	-291	-1	-1,225	-5	
Granbury, Lake	52	128,046	119,837	94	-3,225	-3	-4,962	-4	
Pat Cleburne, Lake	53	26,008	24,492	94	1,853	7	-1,238	-5	
Waxahachie, Lake	54	10,779	8,808	82	-11	0	-1,971	-18	
Bardwell Lake	55	46,122	45,100	98	-774	-2	-1,022	-2	
Proctor Lake	56	55,457	32,680	59	-725	-1	4,305	8	
Whitney, Lake	57	553,349	376,665	68	-3,974	-1	-91,273	-16	
Aquilla Lake	58	44,460	41,638	94	-1,034	-2	-3,454	-8	
Navarro Mills Lake	59	49,826	45,784	92	-948	-2	-10,033	-20	
*Halbert, Lake	60	6,033	3,415	57	-200	-3	-1,975	-33	
Richland-Chambers Reservoir	61	1,087,839	980,459	90	-20,070	-2	-123,357	-11	
*Brownwood, Lake	62	131,429	79,811	61	-1,420	-1	-8,429	-6	
Waco, Lake	62	198,943	191,274	96	-1,917	-1	-7,669	-4	
Limestone, Lake	64	208,015	163,371	79	-6,731	-3	-44,644	-21	
Belton Lake	65	435,225	394,287	91	-4,237	-1	-22,134	-5	
Stillhouse Hollow Lake	66	227,771	225,983	99	-383	0	-1,788	-1	
Georgetown, Lake	67	36,823	35,463	96	-1,360	-4	-1,360	-4	
Granger Lake	68	50,779	44,350	87	1,355	3	-8,175	-16	
Tawakoni, Lake	69	888,126	778,607	88	-13,875	-2	-109,519	-12	
<b>TOTAL</b>		<b>10,532,885</b>	<b>9,232,329</b>	<b>88</b>	<b>-125,063</b>	<b>-1</b>	<b>-643,873</b>	<b>-6</b>	
<b>EAST</b>									
Wright Patman Lake	70	122,593	122,593	100	0	0	0	0	
*Sulphur Springs, Lake	71	17,838	9,884	55	-92	-1	-7,954	-45	
Cypress Springs, Lake	72	66,756	63,309	95	250	0	-4,380	-7	
Bob Sandlin, Lake	73	200,579	169,673	85	-2,856	-1	-30,906	-15	
Fork Reservoir, Lake	74	604,927	517,683	86	-10,999	-2	-86,716	-14	
O the Pines, Lake	75	238,933	228,175	95	-7,318	-3	-10,758	-5	
Cedar Creek Reservoir in Trinity	76	644,686	546,123	85	-15,291	-2	-98,563	-15	
Athens, Lake	77	29,435	26,428	90	0	0	-3,007	-10	
Palestine, Lake	78	370,907	316,189	85	-6,796	-2	-54,718	-15	
Tyler, Lake	79	73,256	62,876	86	-355	0	-10,380	-14	
Murvault, Lake	80	38,284	30,894	81	-741	-2	-7,390	-19	
Jacksonville, Lake	81	25,670	22,897	89	-33	0	-7,403	-29	
Nacogdoches, Lake	82	39,521	28,993	73	-630	-2	-10,528	-27	
Houston County Lake	83	17,113	15,364	90	12	0	-1,749	-10	
Sam Rayburn Reservoir	84	2,857,077	1,983,380	69	-15,743	-1	-744,401	-26	
Toledo Bend Reservoir (Texas)	85	2,236,450	1,559,979	70	-31,462	-1	-606,573	-27	
Toledo Bend Reservoir (TX & LA)	(85)	4,472,900	3,119,958	70	-62,925	-1	-1,213,147	-27	
*Livingston, Lake	86	1,741,867	1,741,867	100	0	0	0	0	
B A Steinhagen Lake	87	66,966	51,730	77	-1,660	-2	699	1	
Conroe, Lake	88	416,188	382,929	92	-5,024	-1	-33,259	-8	
<b>TOTAL</b>		<b>9,809,046</b>	<b>7,880,966</b>	<b>80</b>	<b>-98,738</b>	<b>-1</b>	<b>-1,717,986</b>	<b>-18</b>	
<b>TRANS-PECOS</b>									
Red Bluff Reservoir	89	289,670	69,417	24	1,735	1	1,735	1	
<b>TOTAL</b>		<b>289,670</b>	<b>69,417</b>	<b>24</b>	<b>1,735</b>	<b>1</b>	<b>1,735</b>	<b>1</b>	

## CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

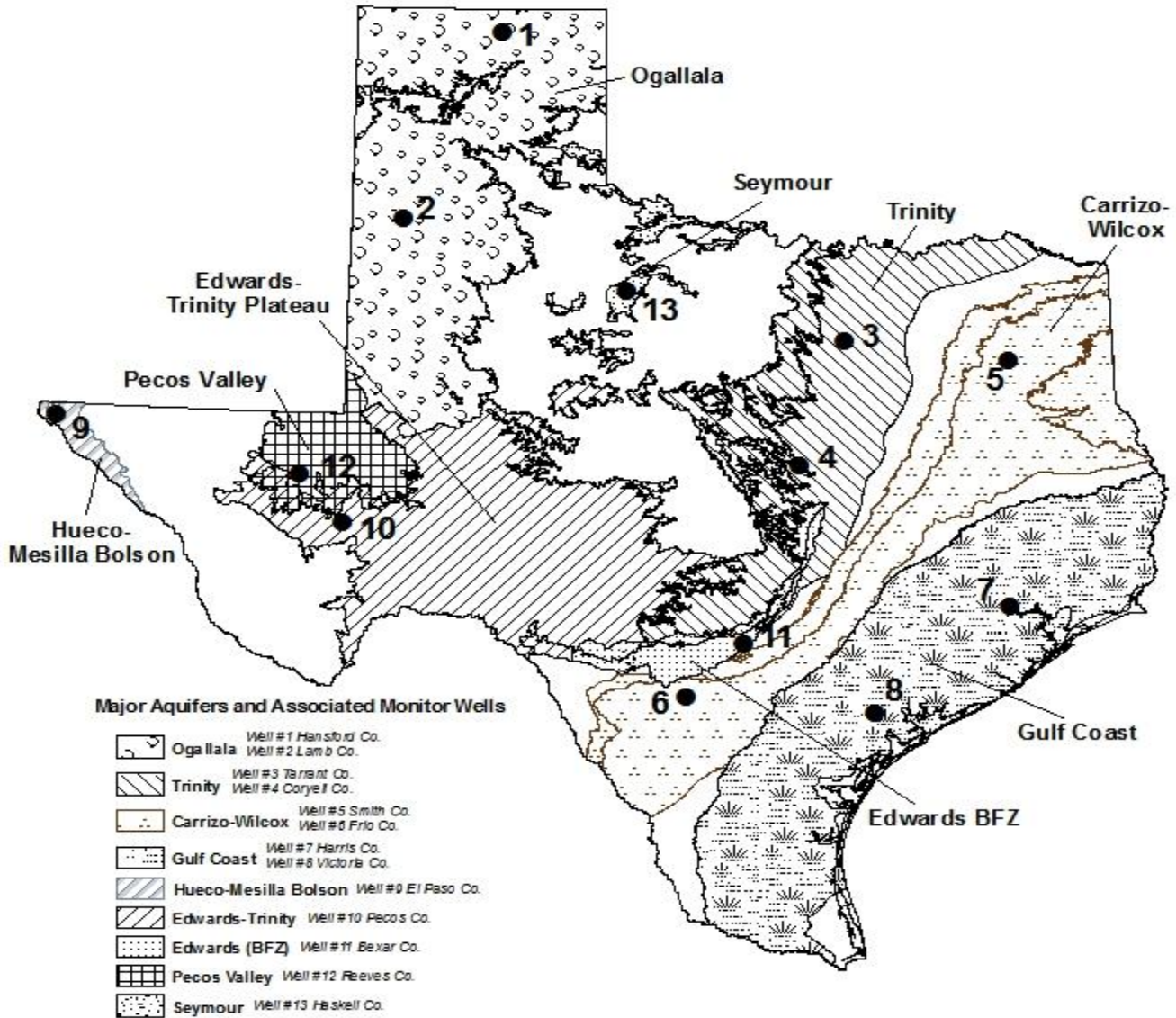
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage		Change since Late November 2010		Change since Late December 2009		
			Late Dec. (acre-feet)	2010 (%)	(acre-feet)	(%)	(acre-feet)	(%)	
<b>EDWARDS PLATEAU</b>									
Oak Creek Reservoir	90	39,260	23,152	59	-174	0	-221	-1	
E V Spence Reservoir	91	517,272	15,484	3	-1,969	0	-9,422	-2	
O C Fisher Lake	92	79,483	0	0	0	0	0	0	
*O H Ivie Reservoir	93	554,335	180,859	33	-4,214	-1	-52,961	-10	
Twin Buttes Reservoir	94	177,850	19,728	11	-428	0	-8,879	-5	
Brady Creek Reservoir	95	29,110	13,052	45	-273	-1	-1,791	-6	
Buchanan, Lake	96	875,610	663,471	76	-4,437	-1	226,645	26	
Lyndon B Johnson, Lake	97	113,323	112,837	100	729	1	112	0	
*Amistad Reservoir (Texas)	98	1,840,849	1,841,000	100	0	0	113,000	6	
*Amistad Reservoir (TX & Mexico)	(98)	3,275,532	3,275,532	100	0	0	127,532	4	
<b>TOTAL</b>		<b>4,227,092</b>	<b>2,869,583</b>	<b>68</b>	<b>-10,766</b>	<b>0</b>	<b>266,483</b>	<b>6</b>	
<b>SOUTH CENTRAL</b>									
Travis, Lake	99	1,113,255	867,805	78	-16,550	-1	161,424	15	
*Austin, Lake	100	21,804	20,987	96	-317	-1	121	1	
Somerville Lake	101	147,104	126,092	86	-2,172	-1	-21,012	-14	
Canyon Lake	102	378,781	369,634	98	-3,176	-1	64,229	17	
Medina Lake	103	254,823	169,239	66	-7,620	-3	104,026	41	
*Coleta Creek Reservoir	104	31,040	29,515	95	-188	-1	-1,525	-5	
<b>TOTAL</b>		<b>1,946,807</b>	<b>1,583,272</b>	<b>81</b>	<b>-30,023</b>	<b>-2</b>	<b>307,263</b>	<b>16</b>	
<b>UPPER COAST</b>									
Houston, Lake	105	128,863	128,863	100	0	0	0	0	
Texana, Lake	106	153,246	126,344	82	-7,562	-5	-26,902	-18	
<b>TOTAL</b>		<b>282,109</b>	<b>255,207</b>	<b>90</b>	<b>-7,562</b>	<b>-3</b>	<b>-26,902</b>	<b>-10</b>	
<b>SOUTHERN</b>									
Choke Canyon Reservoir	107	695,262	557,428	80	-8,295	-1	84,200	12	
Corpus Christi, Lake	108	256,961	225,095	88	-8,315	-3	139,467	54	
*Falcon Reservoir (Texas)	109	1,551,034	1,664,000	107	25,000	2	673,000	43	
*Falcon Reservoir (TX & Mexico)	(109)	2,646,817	2,646,817	100	0	0	946,817	36	
<b>TOTAL</b>		<b>2,503,257</b>	<b>2,446,523</b>	<b>98</b>	<b>8,390</b>	<b>0</b>	<b>896,667</b>	<b>36</b>	
<b>STATE TOTAL</b>		<b>31,131,409</b>	<b>24,923,554</b>	<b>80</b>	<b>-268,802</b>	<b>-1</b>	<b>-797,195</b>	<b>-3</b>	

\* 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  $100 * (\text{current conservation storage} - \text{past conservation storage}) / \text{conservation storage capacity}$ . Figures shown are for the Texas share of conservation storage in all reservoirs.

# GROUNDWATER LEVELS IN OBSERVATION WELLS



December, 2010

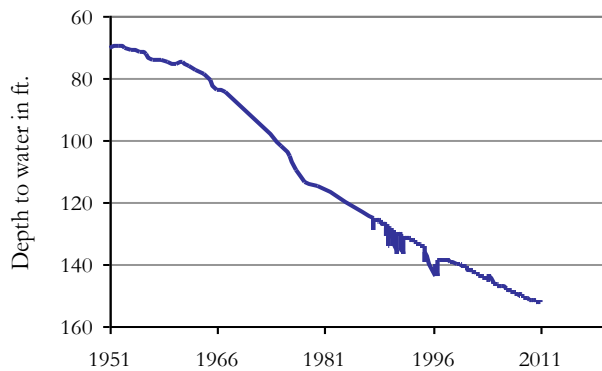
Water level measurements were available for all thirteen key monitoring wells. Water levels rose in ten of the thirteen monitoring wells since the beginning of December ranging from 0.06 feet in the Haskell County Seymour Aquifer well to 7.70 feet in the Frio County Carrizo-Wilcox Aquifer well. Water levels declined in the remaining monitoring wells, ranging from 0.02 feet in the Lamb County Ogallala Aquifer well to 2.32 feet in the Bexar County Edwards BFZ Aquifer well. The J-17 well in San Antonio recorded a water level of 59.66 feet below land surface, 2.32 feet below last month's measurement. This water level is 11.34 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
December 2010	151.73	139.12	450.37	481.38	433.35	408.90	197.37	33.29	290.16	196.13	59.66	143.85	43.79
November 2010	152.46	139.10	449.76	482.07	434.30	416.60	198.29	33.38	291.10	202.77	57.34	144.84	43.85
Month Change	0.73	-0.02	-0.61	0.69	0.95	7.70	0.92	0.09	0.94	6.64	-2.32	0.99	0.06
Year Change	-0.06	-1.89	-5.15	-4.00	-1.44	-24.80	N/A	0.10	1.39	-8.08	1.74	-2.31	0.20
Historical Change	-81.61	-110.97	-72.37	-189.38	-67.35	-128.90	-61.87	0.71	-58.26	50.75	-13.02	-51.76	-2.46

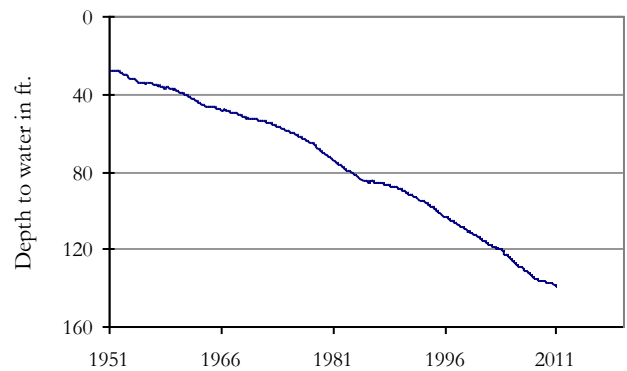
\* ID is used in this publication to differentiate between the monitoring well number (1 - 13) as displayed on the aquifer map and the TWDB's six- or seven-digit state well "identification" number.

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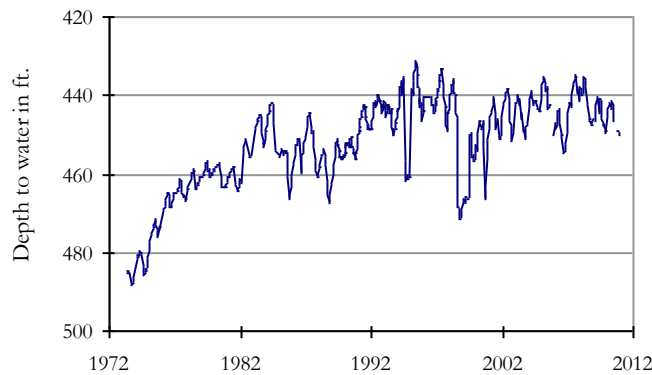
**(1) State Well ID 03-54-301**  
Near Spearman, Hansford County  
Ogallala Aquifer



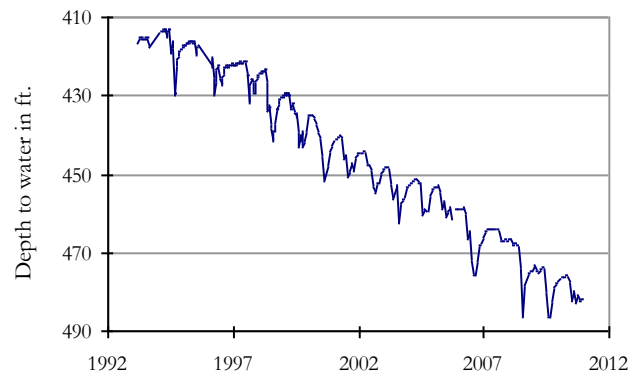
**(2) State Well ID 10-53-602**  
Near Earth, Lamb County  
Ogallala Aquifer



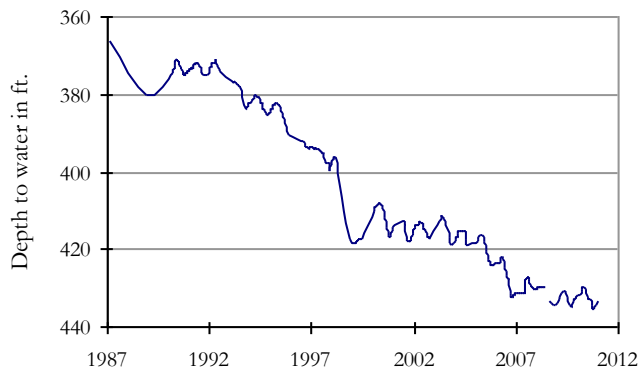
**(3) State Well ID 32-15-504**  
Near Hurst, Tarrant County  
Paluxy Formation-Trinity Aquifer



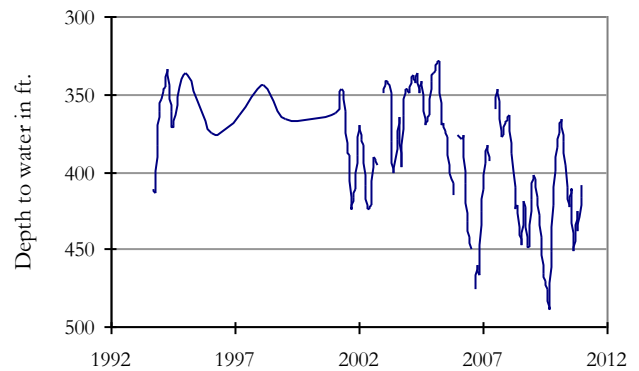
**(4) State Well ID 40-35-404**  
Gatesville, Coryell County  
Hosston Formation-Trinity Aquifer



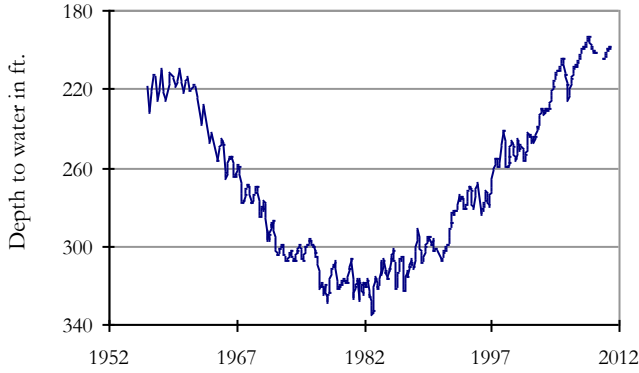
**(5) State Well ID 34-30-907**  
Red Springs, Smith County  
Carrizo-Wilcox Aquifer



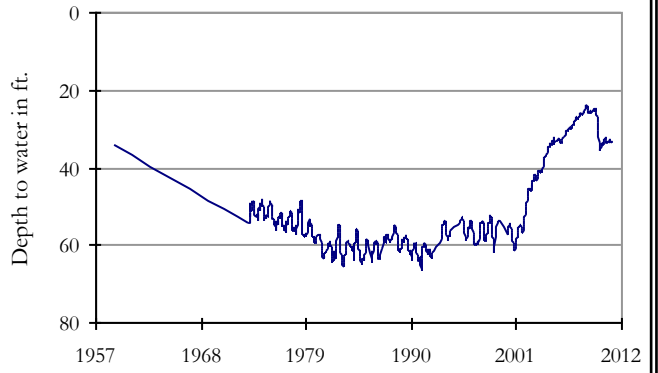
**(6) State Well ID 77-08-803**  
Pearsall, Frio County  
Carrizo-Wilcox Aquifer



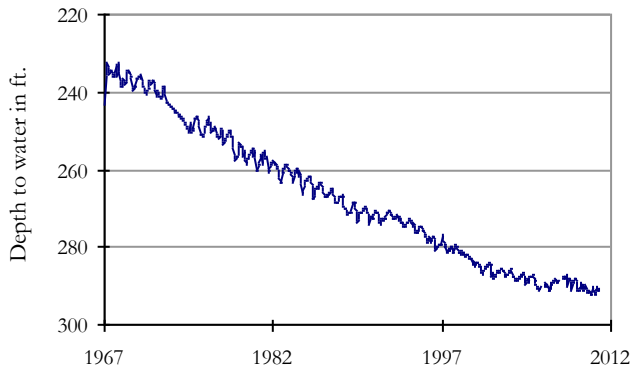
**(7) State Well ID 65-14-409**  
**Alief, Harris County**  
**Evangeline Formation-Gulf Coast Aquifer**



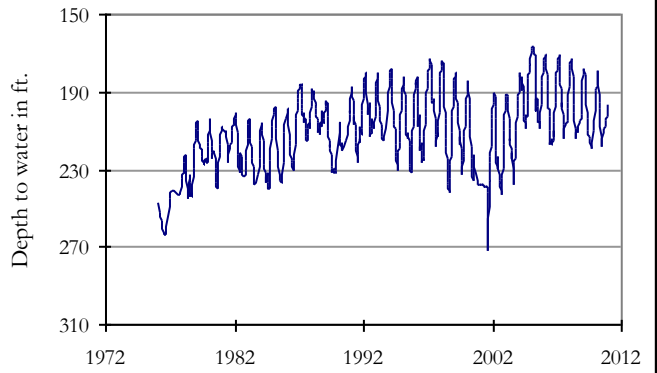
**(8) State Well ID 80-17-502**  
**Near Bloomington, Victoria County**  
**Lissie Formation-Gulf Coast Aquifer**



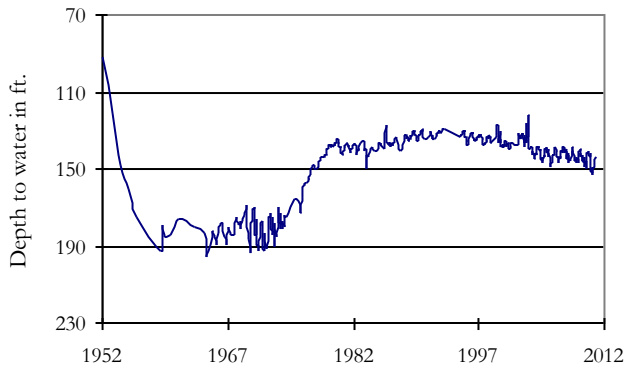
**(9) State Well ID 49-13-301**  
**El Paso, El Paso County**  
**Hueco-Mesilla Bolson Aquifer**



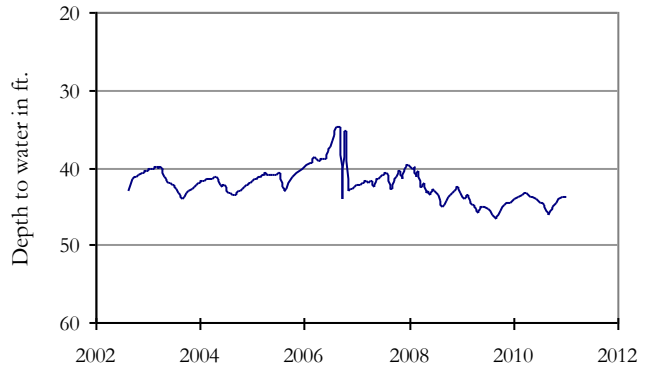
**(10) State Well ID 52-16-802**  
**Fort Stockton, Pecos County**  
**Edwards-Trinity (Plateau) Aquifer**



**(12) State Well ID 46-44-501**  
**Near Pecos, Reeves County**  
**Pecos Valley Aquifer**

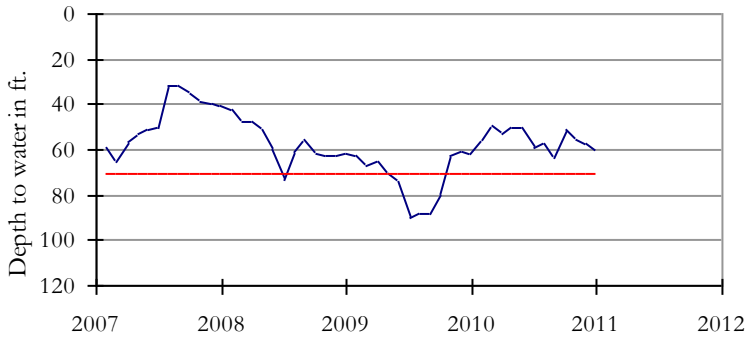
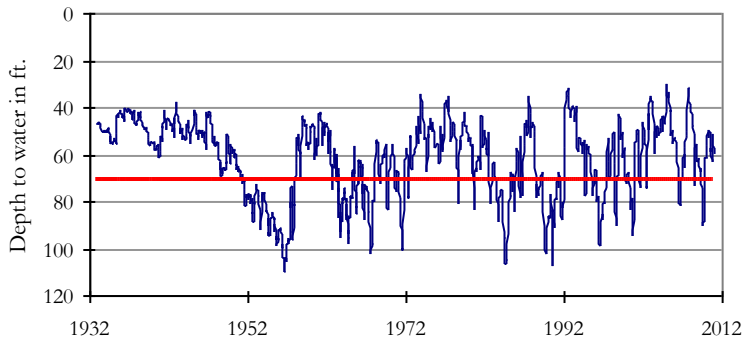


**(13) State Well ID 21-35-748**  
**Near O'Brien, Haskell County**  
**Seymour Aquifer**





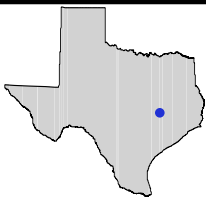
**(11) State Well ID 68-37-203 (J-17)  
In San Antonio, Bexar County  
Edwards (BFZ) Aquifer**



The late December water level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 59.66 feet below land surface. This was 2.32 feet below last month's measurement, 1.74 feet above last year's measurement, and 13.02 feet below the initial measurement recorded in 1932.

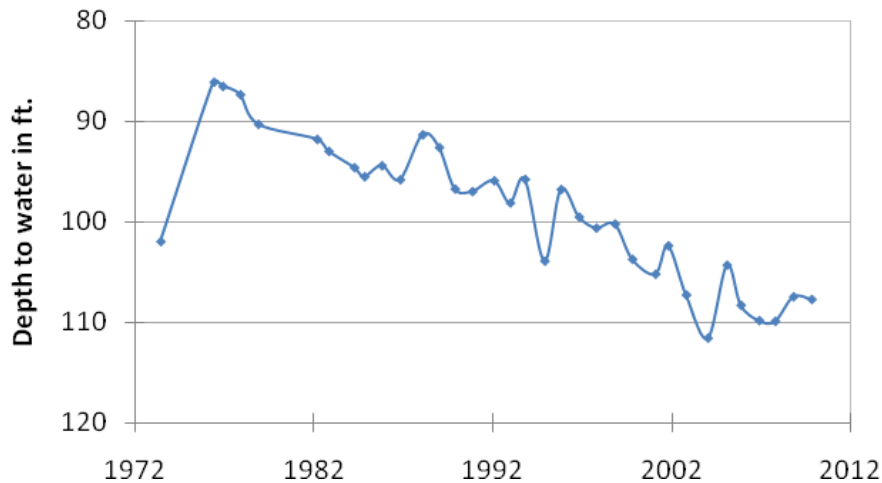
**\*\*\* Water levels below the red line indicate Edwards Aquifer Authority Stage 1 drought restrictions. \*\*\***

***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 59-08-701  
Madison County**



This Sparta Aquifer water level observation well is located 1 mile southeast of North Zulch at an elevation of 348 feet above sea level. The water level decline of nearly 18 feet between 1977 and 2010 is not considered significant. The aquifer is mainly used for domestic and livestock purposes.

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