

Texas Water Development Board



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RESERVOIR STORAGE

June 2010

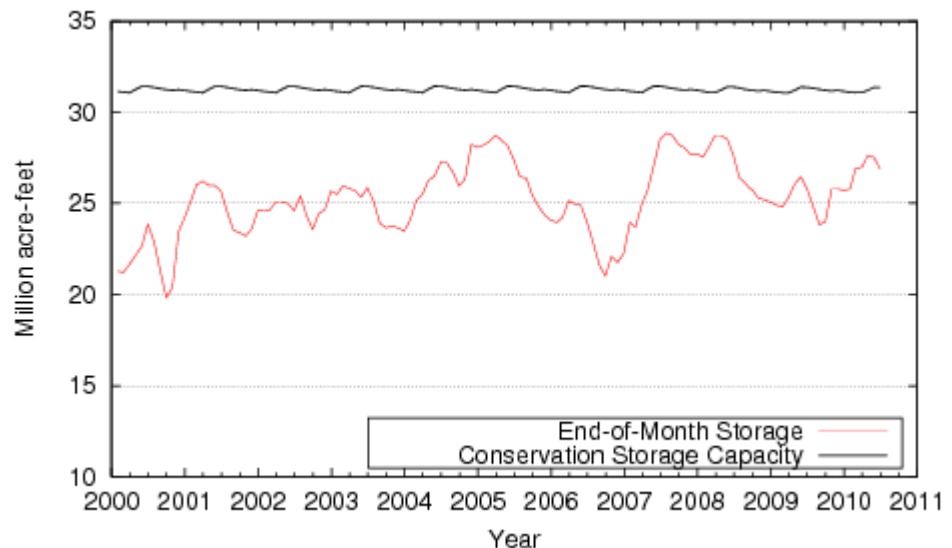
Total storage in the state's 109 major reservoirs was 2% lower than last month, at 86% full, with 26.89 million acre-feet in conservation storage*.

Storage was at 100% in 19 reservoirs, seventeen less than last month. Most reservoirs at 100% storage level were in the Low Rolling Plains, East, South Central and North Central regions. Four lakes were at or below 10% full: O. C. Fisher Lake Reservoir was effectively empty, Lake Meredith (total) was at 3%, E.V. Spence Reservoir was at 5%, and Lake J. B. Thomas was at 7% full.

Four regions had combined storage above 90%: Upper Coast 96%, East and North Central 94%, and South Central 90%. The High Plains (10%) and Trans-Pecos regions (19%) remained very low. Storage decreased in all except the High Plains region over the month. Compared to last June, storage increased in 7 regions but decreased in 2 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.

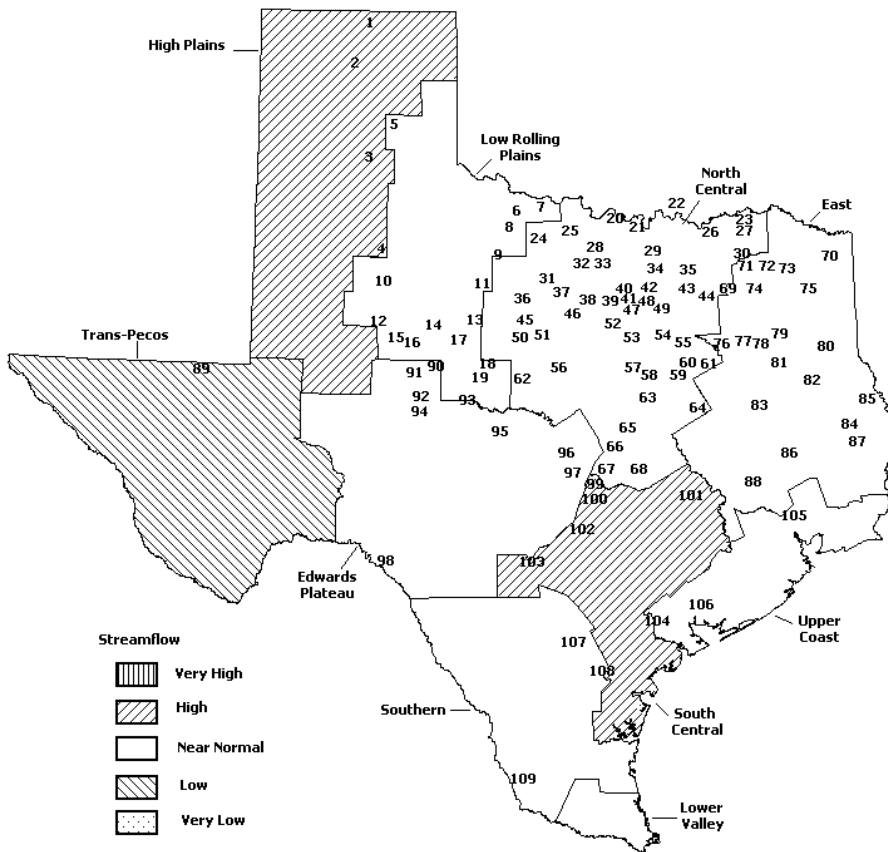
STREAMFLOW

Of 29 reporting index stations in June, computed 31-day mean flows were very high (<5%) at 1 station, high (5% - 30%) at 7 stations, low (70% - 95%) at 2 stations, and near normal (30% - 70%) at the remaining 19 stations. Compared to May, flows have increased at 12 index stations and decreased at 17 stations.

On a regional basis, flows in June were high in the High Plains and South Central region, low in Trans-Pecos region, and near normal everywhere else. Streamflow in the Lower Valley Region is not monitored.

JUNE 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. Murvaul, 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 Capacity (acre-feet)	Conservation Storage		Change since Late May 2010		Change since Late June 2009		
			Late Jun. (acre-feet)	2010 (%)	(acre-feet)	(%)	(acre-feet)	(%)	
HIGH PLAINS									
Palo Duro Reservoir	1	60,897	30,352	50	30,092	49	29,321	48	
Meredith, Lake (Texas)	2	500,000	23,296	5	-6,020	-1	-22,758	-5	
Meredith, Lake (Texas & Oklahoma)	(2)	779,556	23,296	3	-6,020	-1	-22,758	-3	
MacKenzie Reservoir	3	46,429	6,869	15	-190	0	601	1	
White River Lake	4	29,880	3,935	13	-454	-2	-1,089	-4	
TOTAL		637,206	64,452	10	23,428	4	6,075	1	
LOW ROLLING PLAINS									
Greenbelt Lake	5	59,500	17,125	29	-510	-1	-528	-1	
*Electra, Lake	6	5,626	585	10	-74	-1	-128	-2	
N. Fork Buffalo Crk Reservoir	7	15,400	6,386	41	-493	-3	1,114	7	
Kemp, Lake	8	245,308	245,308	100	0	0	61,452	25	
Millers Creek Reservoir	9	27,888	20,942	75	279	1	6,299	23	
Alan Henry Reservoir	10	94,808	94,808	100	54	0	4,603	5	
Stamford, Lake	11	51,570	51,570	100	0	0	13,780	27	
J B Thomas, Lake	12	199,931	14,228	7	-1,324	-1	2,076	1	
Fort Phantom Hill, Lake	13	70,030	60,621	87	4,057	6	7,002	10	
Sweetwater, Lake	14	10,006	6,615	66	-95	-1	-60	-1	
Colorado City, Lake	15	31,793	16,728	53	-693	-2	-3,136	-10	
Champion Creek Reservoir	16	41,618	7,439	18	-270	-1	-1,105	-3	
Abilene, Lake	17	6,099	5,930	97	-140	-2	3,332	55	
Coleman, Lake	18	38,076	24,744	65	-843	-2	-204	-1	
Hords Creek Lake	19	5,684	1,117	20	-126	-2	-939	-17	
TOTAL		903,337	574,146	64	-178	0	93,558	10	
NORTH CENTRAL									
Nocona, Lake (Farmers Crk)	20	21,445	21,271	99	-174	-1	399	2	
Hubert H Moss Lake	21	24,058	23,716	99	-213	-1	278	1	
Texoma, Lake (Texas)	22	1,334,294	1,292,827	97	-40,698	-3	-41,467	-3	
Texoma, Lake (Texas & Oklahoma)	(22)	2,668,589	2,585,655	97	-81,396	-3	-82,934	-3	
*Pat Mayse Lake	23	117,844	115,052	98	-2,792	-2	-3,048	-3	
Kickapoo, Lake	24	85,825	79,758	93	-2,943	-3	35,888	42	
Arrowhead, Lake	25	235,997	220,109	93	-7,632	-3	50,927	22	
Bonham, Lake	26	11,026	9,732	88	-666	-6	-574	-5	
Crook, Lake	27	9,195	8,275	90	-382	-4	-403	-4	
Amon G Carter, Lake	28	19,903	19,903	100	0	0	1,843	9	
Ray Roberts, Lake	29	798,758	781,344	98	-13,918	-2	-17,414	-2	
Jim Chapman Lake (Cooper)	30	260,332	231,945	89	-15,189	-6	-19,183	-7	
Graham, Lake	31	45,260	44,186	98	-1,074	-2	7,248	16	
*Lost Creek Reservoir	32	11,950	11,950	100	10	0	2,143	18	
Bridgeport, Lake	33	366,236	366,236	100	0	0	93,362	25	
Lewisville Lake	34	563,228	531,352	94	-29,476	-5	-5,382	-1	
Lavon Lake	35	443,844	405,353	91	-31,347	-7	-25,884	-6	
Hubbard Creek Reservoir	36	318,067	214,183	67	-3,837	-1	-19,718	-6	
Poosum Kingdom Lake	37	540,340	523,548	97	2,593	0	43,244	8	
*Mineral Wells, Lake	38	7,065	6,633	94	-377	-5	1,542	22	
Weatherford, Lake	39	17,789	17,072	96	-588	-3	3,508	20	
Eagle Mountain Lake	40	179,880	171,814	96	-8,066	-4	20,876	12	
Worth, Lake	41	24,500	22,816	93	-1,549	-6	5,584	23	
Grapevine Lake	42	164,702	162,771	99	-1,931	-1	12,068	7	
Ray Hubbard, Lake	43	452,040	416,168	92	-21,443	-5	-33,598	-7	
New Terrell City Lake	44	8,583	8,151	95	-372	-4	-177	-2	
Daniel, Lake	45	9,435	6,243	66	-456	-5	992	11	
Palo Pinto, Lake	46	26,827	24,886	93	-1,833	-7	15,002	56	
Benbrook Lake	47	85,648	80,033	93	-5,615	-7	-1,367	-2	
Arlington, Lake	48	40,156	36,850	92	-792	-2	139	0	

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 May 2010		Change since Late June 2009		
			Late Jun. (acre-feet)	2010 (%)	(acre-feet)	(%)	(acre-feet)	(%)	
NORTH CENTRAL (Continue)									
Joe Pool Lake	49	142,861	139,613	98	-3,248	-2	295	0	
*Cisco, Lake	50	26,000	16,048	62	-274	-1	-2,127	-8	
Leon, Lake	51	26,421	19,358	73	-178	-1	653	2	
Granbury, Lake	52	128,046	125,780	98	1,737	1	15,168	12	
Pat Cleburne, Lake	53	26,008	24,615	95	-1,346	-5	2,855	11	
Waxahachie, Lake	54	10,779	10,085	94	-694	-6	722	7	
Bardwell Lake	55	46,122	45,100	98	-1,022	-2	2,614	6	
Proctor Lake	56	55,457	47,333	85	-4,520	-8	13,005	23	
Whitney, Lake	57	553,349	461,692	83	-62,545	-11	89,947	16	
Aquilla Lake	58	44,460	42,939	97	-1,521	-3	748	2	
Navarro Mills Lake	59	49,826	49,826	100	186	0	-2,756	-6	
*Halbert, Lake	60	6,033	4,851	80	-246	-4	1,321	22	
Richland-Chambers Reservoir	61	1,087,839	1,087,839	100	4,241	0	110,892	10	
*Brownwood, Lake	62	131,429	97,005	74	-4,431	-3	1,944	1	
Waco, Lake	62	198,943	196,025	99	-2,918	-1	667	0	
Limestone, Lake	64	208,015	205,697	99	1,708	1	12,256	6	
Belton Lake	65	435,225	407,360	94	-5,740	-1	1,398	0	
Stillhouse Hollow Lake	66	227,771	227,771	100	0	0	11,514	5	
Georgetown, Lake	67	36,823	36,823	100	0	0	18,390	50	
Granger Lake	68	50,779	42,466	84	-640	-1	150	0	
Tawakoni, Lake	69	888,126	861,990	97	-24,230	-3	1,491	0	
TOTAL		10,604,539	10,004,393	94	-296,441	-3	407,975	4	
EAST									
Wright Patman Lake	70	292,668	292,668	100	3,738	1	0	0	
*Sulphur Springs, Lake	71	17,838	13,641	76	-4,197	-24	-3,759	-21	
Cypress Springs, Lake	72	66,756	66,084	99	-608	-1	-1,122	-2	
Bob Sandlin, Lake	73	200,579	194,545	97	-5,129	-3	-4,767	-2	
Fork Reservoir, Lake	74	604,927	596,215	99	-8,712	-1	-8,712	-1	
O the Pines, Lake	75	267,672	266,896	100	22,734	8	2,717	1	
Cedar Creek Reservoir in Trinity	76	644,686	641,149	99	4,822	1	6,751	1	
Athens, Lake	77	29,435	29,435	100	377	1	520	2	
Palestine, Lake	78	370,907	370,907	100	12,388	3	11,084	3	
Tyler, Lake	79	73,256	73,256	100	1,600	2	2,296	3	
Murvaul, Lake	80	38,284	35,824	94	-1,335	-3	-1,504	-4	
Jacksonville, Lake	81	25,670	25,131	98	45	0	-4,372	-17	
Nacogdoches, Lake	82	39,521	35,868	91	-1,044	-3	-737	-2	
Houston County Lake	83	17,113	16,859	99	0	0	635	4	
Sam Rayburn Reservoir	84	2,857,077	2,579,712	90	-123,639	-4	-13,660	0	
Toledo Bend Reservoir (Texas)	85	2,236,450	1,951,764	87	-79,910	-4	-164,562	-7	
Toledo Bend Reservoir (TX & LA)	(85)	4,472,900	3,903,529	87	-159,820	-4	-329,124	-7	
*Livingston, Lake	86	1,741,867	1,741,867	100	0	0	0	0	
B A Steinhagen Lake	87	66,966	63,135	94	706	1	1,613	2	
Conroe, Lake	88	416,188	406,833	98	-1,559	0	6,236	1	
TOTAL		10,007,860	9,401,789	94	-179,723	-2	-171,343	-2	
TRANS-PECOS									
Red Bluff Reservoir	89	289,670	54,344	19	-6,355	-2	-9,513	-3	
TOTAL		289,670	54,344	19	-6,355	-2	-9,513	-3	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

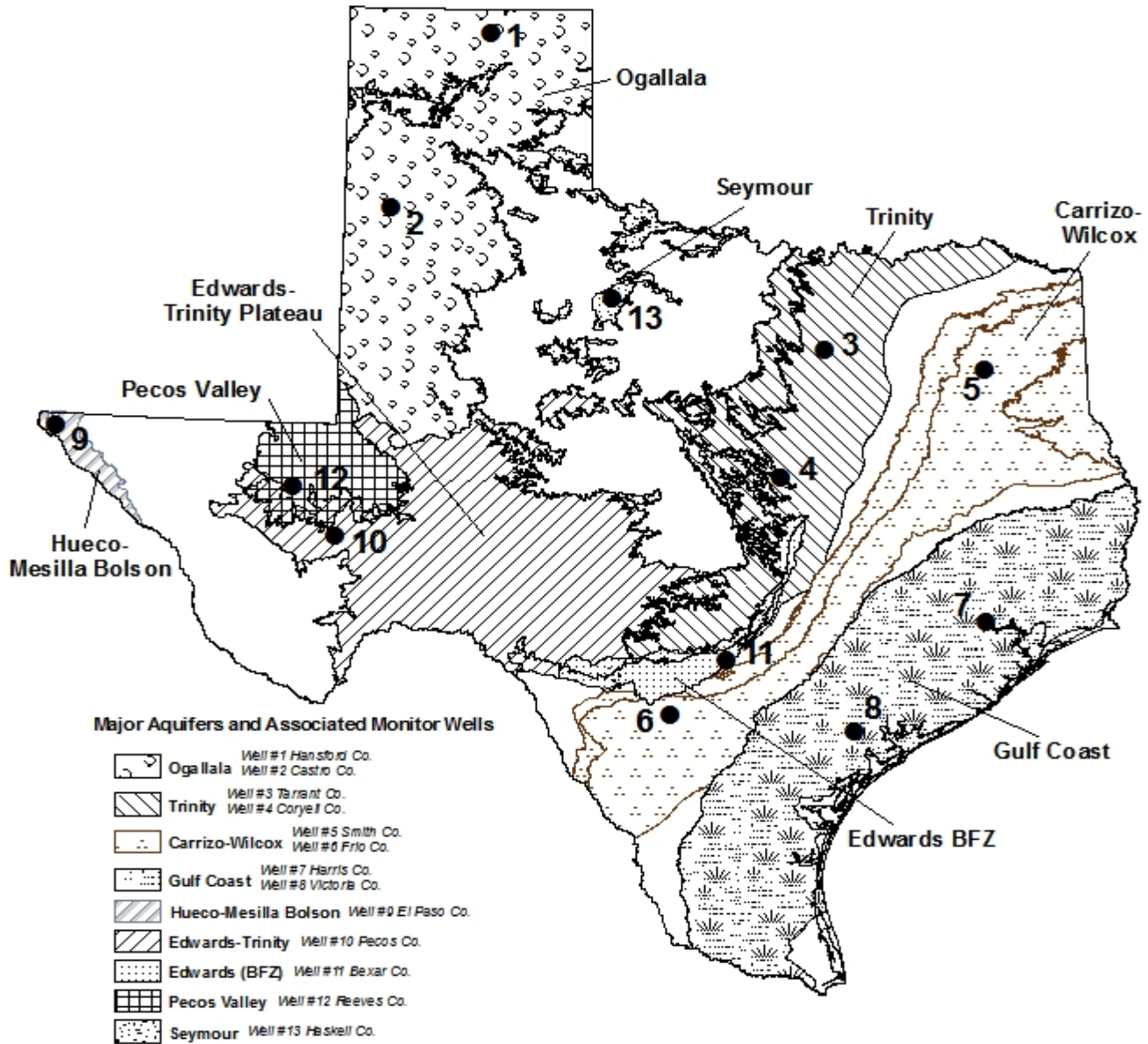
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage		Change since Late May 2010		Change since Late June 2009		
			Late Jun. (acre-feet)	2010 (%)	(acre-feet)	(%)	(acre-feet)	(%)	
EDWARDS PLATEAU									
Oak Creek Reservoir	90	39,260	25,318	64	-1,109	-3	-1,549	-4	
E V Spence Reservoir	91	517,272	23,880	5	-2,519	0	-15,298	-3	
O C Fisher Lake	92	79,483	0	0	0	0	0	0	
*O H Ivie Reservoir	93	554,335	222,802	40	-10,808	-2	-48,123	-9	
Twin Buttes Reservoir	94	177,850	32,442	18	-3,617	-2	-5,669	-3	
Brady Creek Reservoir	95	29,110	16,393	56	-546	-2	1,537	5	
Buchanan, Lake	96	824,519	692,845	84	398	0	187,800	23	
Lyndon B Johnson, Lake	97	113,323	110,589	98	-304	0	435	0	
*Amistad Reservoir (Texas)	98	1,840,849	1,781,000	97	6,000	0	-66,000	-4	
*Amistad Reservoir (TX & Mexico)	(98)	3,275,532	3,122,000	95	-70,000	-2	-153,000	-5	
TOTAL		4,176,001	2,905,269	70	-12,505	0	53,133	1	
SOUTH CENTRAL									
Travis, Lake	99	1,113,255	992,436	89	-91,949	-8	434,039	39	
*Austin, Lake	100	21,804	20,941	96	0	0	60	0	
Somerville Lake	101	147,104	147,104	100	961	1	26,207	18	
Canyon Lake	102	378,781	378,781	100	0	0	99,814	26	
Medina Lake	103	254,823	186,980	73	1,461	1	94,522	37	
*Coleto Creek Reservoir	104	31,040	29,773	96	-1,267	-4	5,991	19	
TOTAL		1,946,807	1,756,015	90	-90,794	-5	660,633	34	
UPPER COAST									
Houston, Lake	105	128,863	128,863	100	0	0	0	0	
Texana, Lake	106	153,246	142,125	93	-8,187	-5	40,658	27	
TOTAL		282,109	270,988	96	-8,187	-3	40,658	14	
SOUTHERN									
Choke Canyon Reservoir	107	695,262	607,750	87	-12,179	-2	95,014	14	
Corpus Christi, Lake	108	256,961	220,338	86	-16,256	-6	110,804	43	
*Falcon Reservoir (Texas)	109	1,551,034	1,034,000	67	-18,000	-1	-197,000	-13	
*Falcon Reservoir (TX & Mexico)	(109)	2,646,817	1,678,000	63	28,000	1	-271,000	-10	
TOTAL		2,503,257	1,862,088	74	-46,435	-2	8,818	0	
STATE TOTAL		31,350,786	26,893,484	86	-617,190	-2	1,089,994	3	

* 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



June, 2010

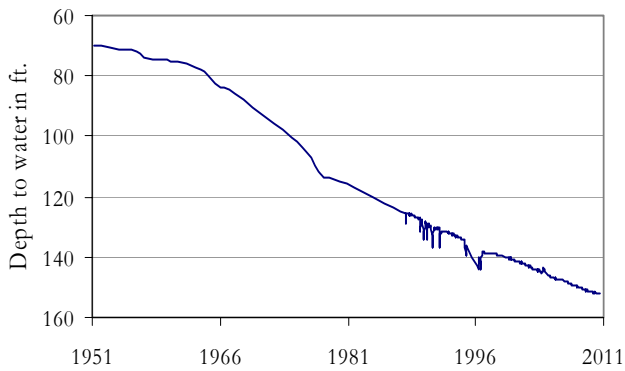
Water level measurements were available for twelve out of the thirteen key monitoring wells. Water levels declined in all monitoring wells since the beginning of June, ranging from 0.11 feet in the Hansford County Ogallala well to 13.43 feet in the Frio County Carrizo-Wilcox well. **The Castro County Ogallala well has gone dry.** A new Ogallala well will be added next month. The J-17 well in San Antonio recorded a water level of 58.74 feet below land surface, 8.34 feet below last month's measurement. This water level is 12.26 feet above the Stage 1 critical management level.

	(1) Hansford 0354301	(2) Castro 1045102	(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
June 2010	152.33	Well Dry	447.15	482.34	432.07	422.88	206.87	33.44	292.36	217.78	58.74	152.82	44.42
May 2010	152.22	276.86	442.71	477.72	430.37	409.45	206.28	33.08	291.41	216.92	50.40	147.95	44.07
Month Change	-0.11	N/A	-4.44	-4.62	-1.70	-13.43	-0.59	-0.36	-0.95	-0.86	-8.34	-4.87	-0.35
Year Change	-0.99	N/A	-5.56	-2.22	0.08	47.26	N/A	-5.03	-2.50	-5.28	31.37	-5.82	0.76
Historical Change	-82.21	N/A	-69.15	-190.34	-66.07	-142.88	-71.37	0.56	-60.46	29.10	-12.10	-60.73	-3.09

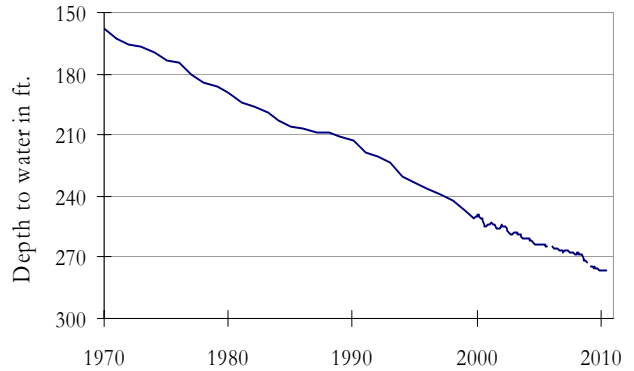
* ID is used in this publication to differentiate between the monitoring well number (1 - 13) as displayed on the aquifer map and the TWDB's six- or seven-digit state well "identification" number.

JUNE GROUNDWATER LEVELS IN OBSERVATION WELLS

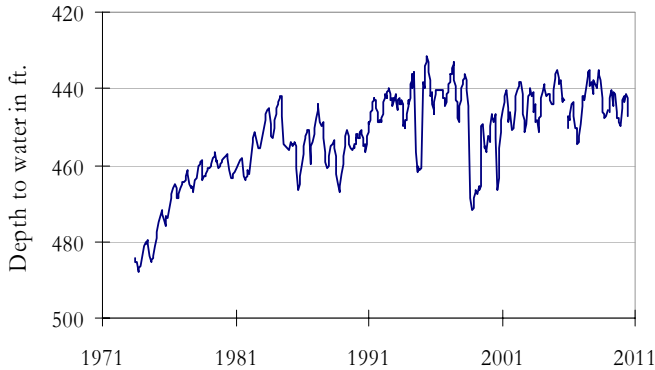
(1) State Well ID 03-54-301
Near Spearman, Hansford County
Ogallala Aquifer



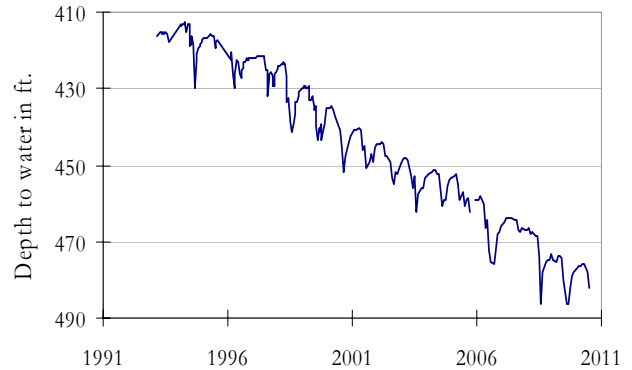
(2) State Well ID 10-45-102
Southwest Castro County
Ogallala Aquifer



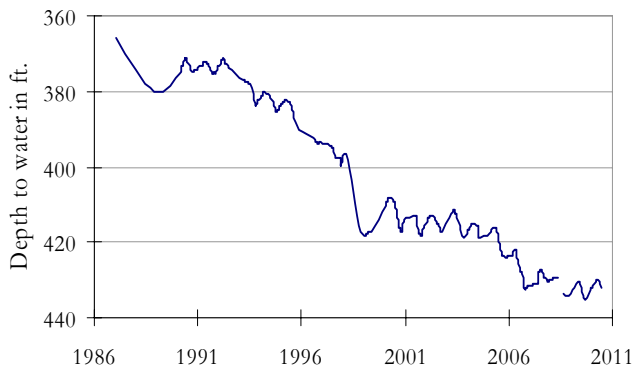
(3) State Well ID 32-15-504
Near Hurst, Tarrant County
Paluxy Formation-Trinity Aquifer



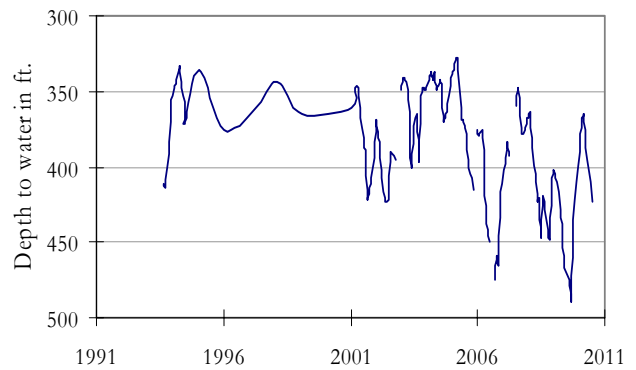
(4) State Well ID 40-35-404
Gatesville, Coryell County
Hosston Formation-Trinity Aquifer



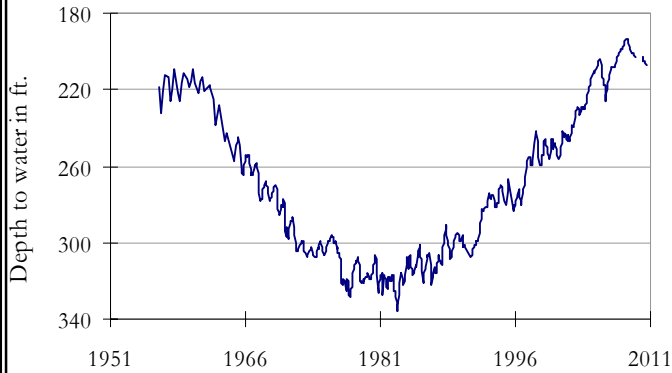
(5) State Well ID 34-30-907
Red Springs, Smith County
Carrizo-Wilcox Aquifer



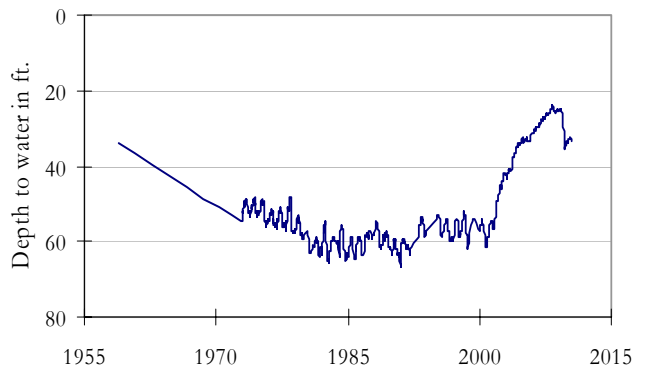
(6) State Well ID 77-08-803
Pearsall, Frio County
Carrizo-Wilcox Aquifer



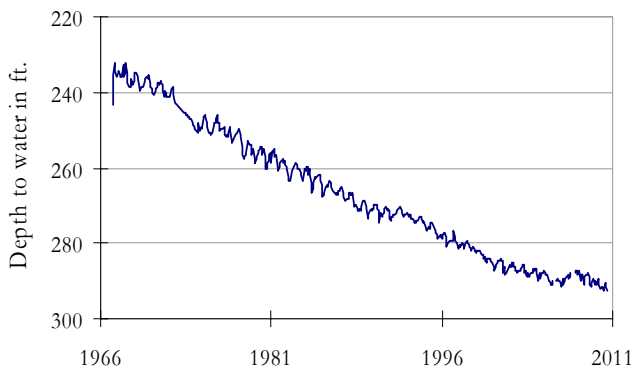
(7) State Well ID 65-14-409
Alief, Harris County
Evangeline Formation-Gulf Coast Aquifer



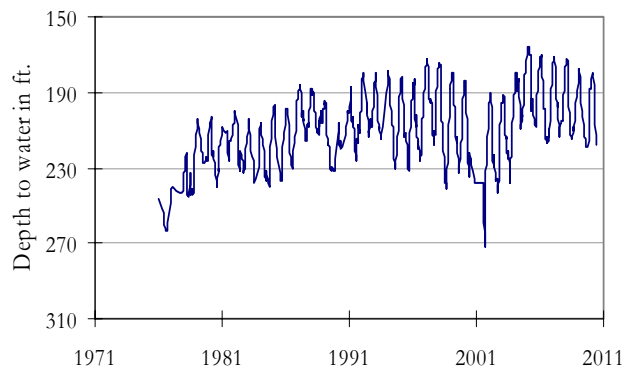
(8) State Well ID 80-17-502
Near Bloomington, Victoria County
Lissie Formation-Gulf Coast Aquifer



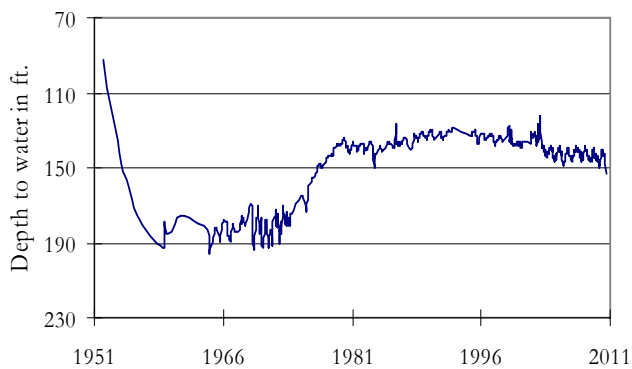
(9) State Well ID 49-13-301
El Paso, El Paso County
Hueco-Mesilla Bolson Aquifer



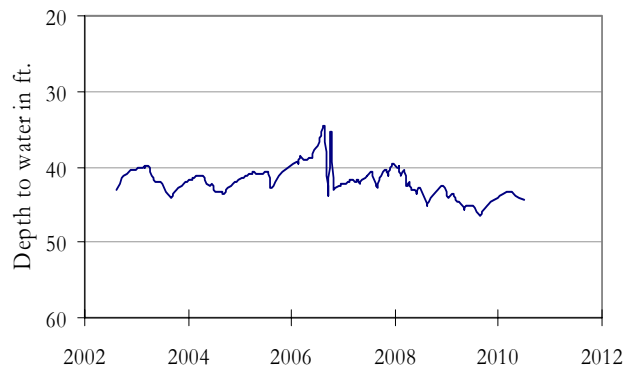
(10) State Well ID 52-16-802
Fort Stockton, Pecos County
Edwards-Trinity (Plateau) Aquifer



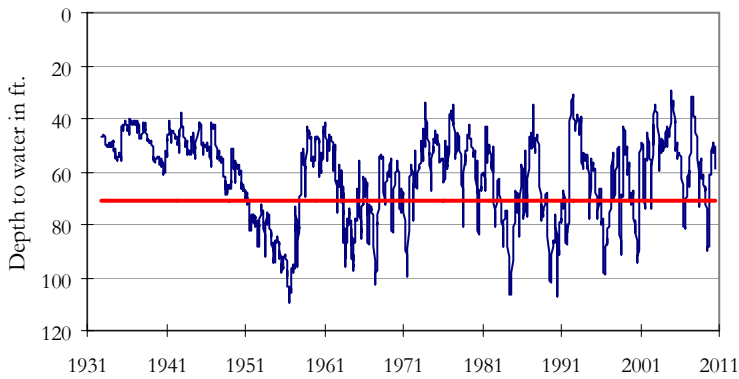
(12) State Well ID 46-44-501
Near Pecos, Reeves County
Pecos Valley Aquifer



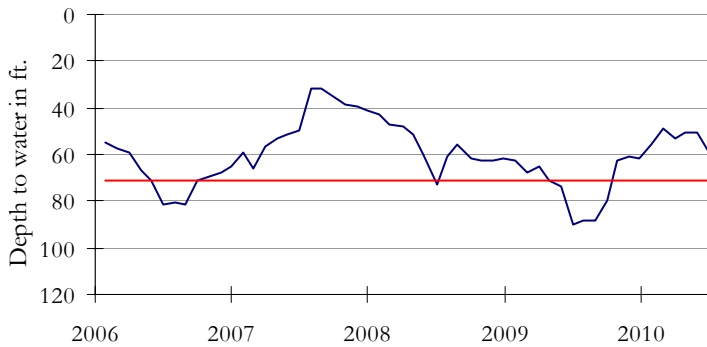
(13) State Well ID 21-35-748
Near O'Brien, Haskell County
Seymour Aquifer



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

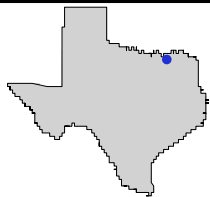


The late June water level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 58.74 feet below land surface. This was 8.34 feet below last month's measurement, 31.37 feet above last year's measurement, and 12.10 feet below the initial measurement recorded in 1932.



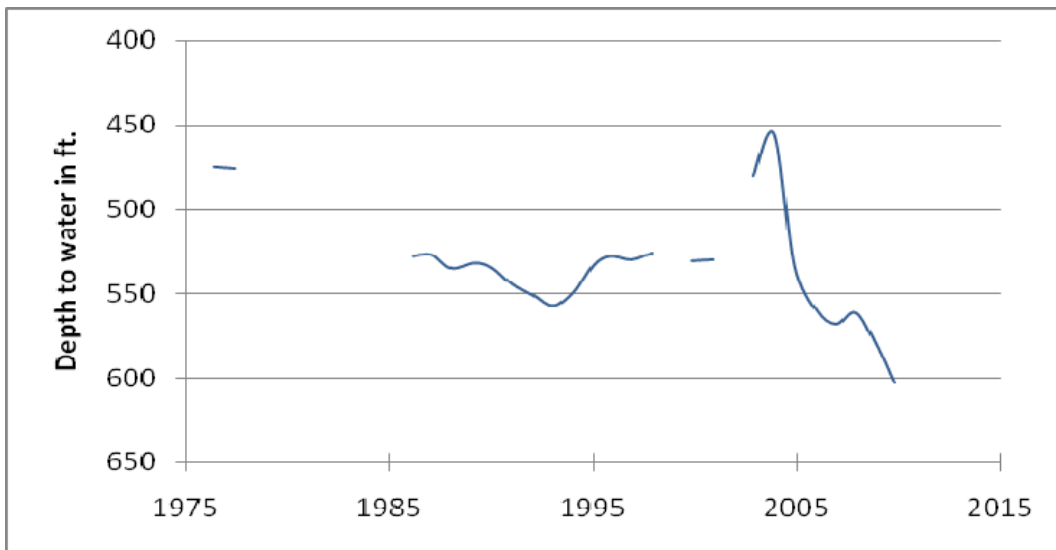
***** Water levels below the red line indicate Edwards Aquifer Authority Stage 1 drought restrictions. *****

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 18-28-705
Grayson County**



This water level observation well, located 1 mile northwest of Howe, at an elevation of 760 feet above sea level, was completed in the Woodbine Aquifer. The aquifer provides water for municipal, industrial, domestic, livestock, and small irrigation supplies. Large water level declines due to heavy municipal and industrial pumping in the Sherman-Denison area have been observed in this aquifer.

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