Texas Water Development Board

WATER Conditions

RESERVOIR STORAGE

March 2010

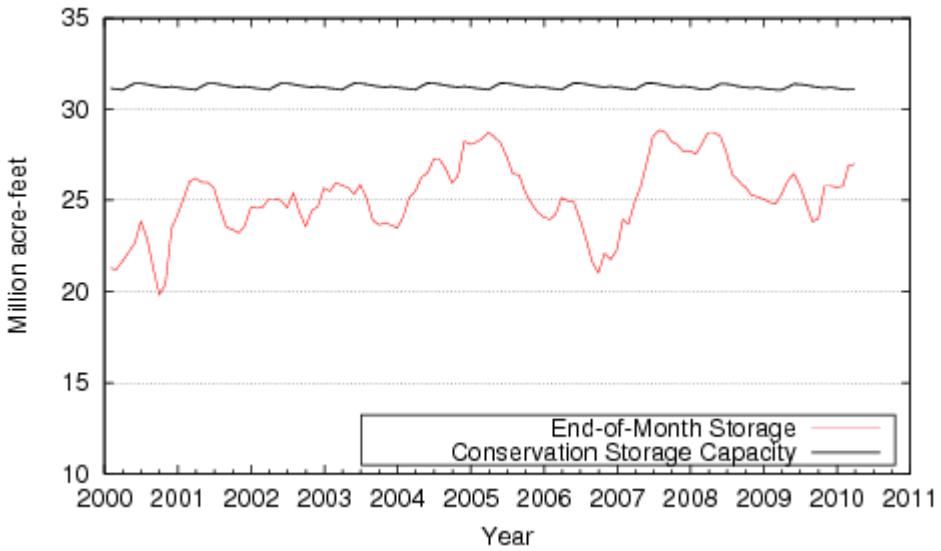
Total storage in the state's major 109 reservoirs remained at 87% full, with 27 million acre-feet in conservation storage*.

Storage was at 100% in 55 reservoirs, two less than last month. Most reservoirs at 100% storage level were in the Upper Coast, East, South Central and North Central Regions. There were six lakes at or below 10% full, the same as last month: O. C. Fisher Lake and Palo Duro Reservoir were effectively empty, Lake Meredith (total) at 4%, Lake J. B. Thomas was at 5%, E.V. Spence Reservoir was at 4%, and White River Lake was 10% full.

Three regions had combined storage above 90%: Upper Coast 100%, East 99%, North Central 97%, and South Central 92%. The High Plains (6%) and Trans-Pecos regions (25%) remained very low. Storage increased in 6 regions, decreased in 2 regions, and remained unchanged in 1 region over the month. Compared to last March, storage increased in 5 regions but 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.

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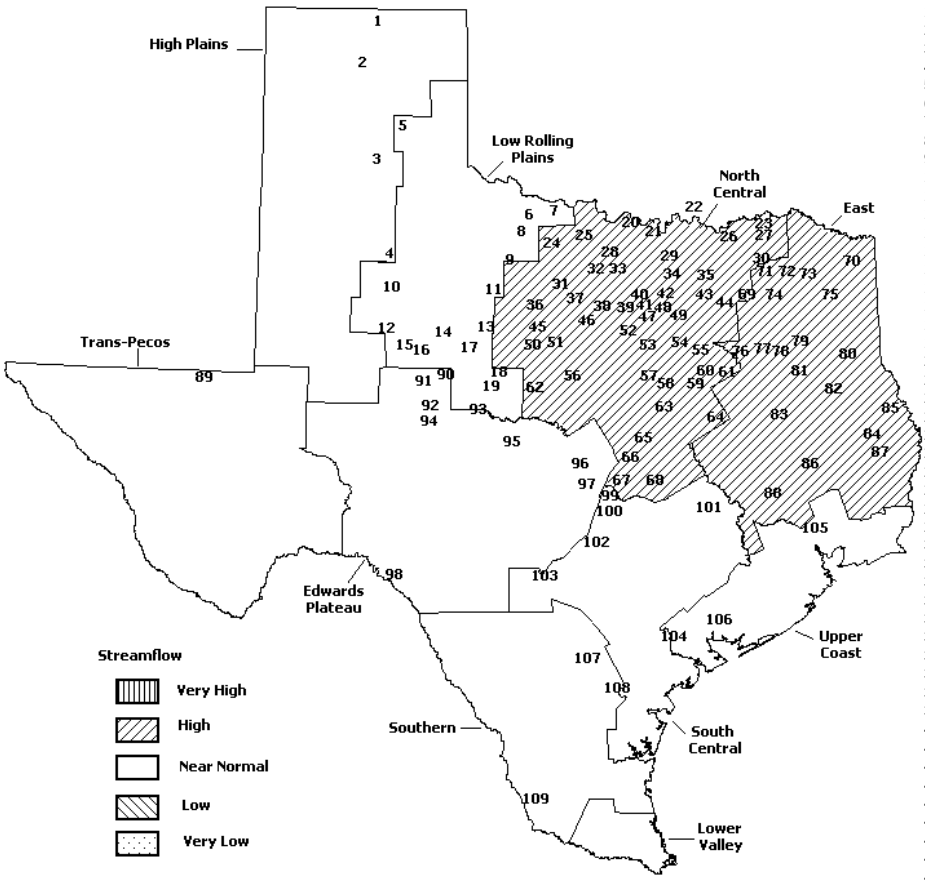
Telephone (512) 463-7847 • Telefax (512) 475-2053 • 1-800-RELAYTX (for the hearing impaired)

STREAMFLOW

Of 29 reporting index stations in March, computed 30-day mean flows were high (5% - 30%) at 11 stations, low (70% - 95%) at 2 stations, and near normal (30% - 70%) at the remaining 16 stations. Compared to February, flows have increased at 3 index stations and decreased at 26 stations.

On a regional basis, flows in March were high in the North Central and East regions, and near normal everywhere else. Streamflow in the Lower Valley Region is not monitored.

MARCH 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. Waxahacie, 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. Coleto 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 Late Mar. 2010 (acre-feet)	(%)	Change since Late February 2010 (acre-feet)	(%)	Change since Late March 2009 (acre-feet)	(%)
HIGH PLAINS								
Palo Duro Reservoir	1	60,897	260	0	-22	0	-514	-1
Meredith, Lake (Texas)	2	500,000	32,146	6	1,416	0	-25,994	-5
Meredith, Lake (Texas & Oklahoma)	(2)	779,556	32,146	4	1,416	0	-25,994	-3
MacKenzie Reservoir	3	46,429	5,691	12	-10	0	102	0
White River Lake	4	29,880	2,872	10	-65	0	-3,313	-11
TOTAL		637,206	40,969	6	1,319	0	-29,719	-5
LOW ROLLING PLAINS								
Greenbelt Lake	5	59,500	15,952	27	202	0	-2,498	-4
*Electra, Lake	6	5,626	626	11	-30	-1	-182	-3
N. Fork Buffalo Crk Reservoir	7	15,400	5,777	38	-145	-1	2,106	14
Kemp, Lake	8	245,308	197,721	81	8,552	3	44,790	18
Millers Creek Reservoir	9	27,888	15,494	56	824	3	330	1
Alan Henry Reservoir	10	94,808	86,446	91	1,438	2	-5,098	-5
Stamford, Lake	11	51,570	45,078	87	2,453	5	12,113	23
J B Thomas, Lake	12	199,931	9,762	5	-309	0	-5,091	-3
Fort Phantom Hill, Lake	13	70,030	52,777	75	-129	0	-6,529	-9
Sweetwater, Lake	14	10,006	6,206	62	181	2	-1,064	-11
Colorado City, Lake	15	31,793	17,487	55	-211	-1	-3,853	-12
Champion Creek Reservoir	16	41,618	7,730	19	-68	0	-1,183	-3
Abilene, Lake	17	6,099	3,995	66	821	13	749	12
Coleman, Lake	18	38,076	25,107	66	1,182	3	-1,991	-5
Hords Creek Lake	19	5,684	1,399	25	-30	-1	-1,177	-21
TOTAL		903,337	491,557	54	14,731	2	31,422	3
NORTH CENTRAL								
Nocona, Lake (Farmers Crk)	20	21,445	21,445	100	0	0	5,136	24
Hubert H Moss Lake	21	24,058	24,058	100	0	0	3,090	13
Texoma, Lake (Texas)	22	1,185,688	1,185,688	100	0	0	0	0
Texoma, Lake (Texas & Oklahoma)	(22)	2,371,376	2,371,376	100	0	0	0	0
*Pat Mayse Lake	23	118,100	118,100	100	0	0	3,790	3
Kickapoo, Lake	24	85,825	59,417	69	2,725	3	22,274	26
Arrowhead, Lake	25	235,997	169,301	72	3,801	2	20,687	9
Bonham, Lake	26	11,026	11,015	100	-11	0	3,071	28
Crook, Lake	27	9,195	9,195	100	0	0	145	2
Amon G Carter, Lake	28	19,903	19,903	100	0	0	4,346	22
Ray Roberts, Lake	29	798,758	798,758	100	0	0	86,395	11
Jim Chapman Lake (Cooper)	30	260,332	260,332	100	0	0	96,668	37
Graham, Lake	31	45,260	43,063	95	576	1	4,089	9
*Lost Creek Reservoir	32	11,950	11,950	100	0	0	1,811	15
Bridgeport, Lake	33	366,236	349,504	95	17,603	5	87,048	24
Lewisville Lake	34	543,988	543,988	100	0	0	109,364	20
Lavon Lake	35	443,844	443,844	100	0	0	68,964	16
Hubbard Creek Reservoir	36	318,067	216,341	68	479	0	-32,599	-10
Possum Kingdom Lake	37	540,340	516,579	96	-3,242	-1	31,268	6
*Mineral Wells, Lake	38	7,065	7,065	100	0	0	1,991	28
Weatherford, Lake	39	18,645	18,645	100	12	0	6,516	35
Eagle Mountain Lake	40	182,500	182,500	100	0	0	37,947	21
Worth, Lake	41	24,500	24,500	100	0	0	7,671	31
Grapevine Lake	42	164,702	164,702	100	0	0	46,962	29
Ray Hubbard, Lake	43	452,040	451,420	100	-620	0	23,230	5
New Terrell City Lake	44	8,583	8,583	100	0	0	888	10
Daniel, Lake	45	9,435	4,290	45	-73	-1	-1,801	-19
Palo Pinto, Lake	46	27,150	27,150	100	0	0	14,221	52
Benbrook Lake	47	85,648	85,648	100	0	0	17,471	20
Arlington, Lake	48	38,740	38,740	100	95	0	6,178	16

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late Mar. 2010 (acre-feet)	(%)	Change since Late February 2010 (acre-feet)	(%)	Change since Late March 2009 (acre-feet)	(%)
NORTH CENTRAL (Continue)								
Joe Pool Lake	49	142,861	142,861	100	0	0	11,629	8
*Cisco, Lake	50	26,000	16,682	64	-58	0	-2,060	-8
Leon, Lake	51	26,421	19,262	73	654	2	-1,023	-4
Granbury, Lake	52	128,046	124,270	97	-755	-1	5,676	4
Pat Cleburne, Lake	53	25,730	25,730	100	0	0	5,367	21
Waxahachie, Lake	54	10,779	10,779	100	0	0	831	8
Bardwell Lake	55	46,122	46,122	100	0	0	6,311	14
Proctor Lake	56	55,457	49,640	90	7,112	13	14,718	27
Whitney, Lake	57	553,349	542,597	98	22,908	4	176,725	32
Aquilla Lake	58	45,092	45,092	100	0	0	2,199	5
Navarro Mills Lake	59	55,817	55,817	100	0	0	734	1
*Halbert, Lake	60	6,033	5,456	90	66	1	2,068	34
Richland-Chambers Reservoir	61	1,103,816	1,103,816	100	0	0	179,036	16
*Brownwood, Lake	62	131,429	93,884	71	374	0	-5,466	-4
Waco, Lake	62	198,943	198,943	100	0	0	6,252	3
Limestone, Lake	64	208,015	207,771	100	0	0	21,936	11
Belton Lake	65	435,225	413,456	95	-21,769	-5	4,115	1
Stillhouse Hollow Lake	66	227,771	227,771	100	0	0	32,785	14
Georgetown, Lake	67	36,823	36,823	100	0	0	18,407	50
Granger Lake	68	52,525	44,176	84	-4,765	-9	4,253	8
Tawakoni, Lake	69	888,126	888,126	100	0	0	152,770	17
TOTAL		10,463,400	10,114,798	97	25,112	0	1,314,084	13
EAST								
Wright Patman Lake	70	122,593	122,593	100	0	0	0	0
*Sulphur Springs, Lake	71	17,838	17,345	97	-493	-3	-493	-3
Cypress Springs, Lake	72	67,689	67,689	100	0	0	0	0
Bob Sandlin, Lake	73	200,579	200,579	100	0	0	0	0
Fork Reservoir, Lake	74	604,927	604,927	100	0	0	3,696	1
O the Pines, Lake	75	238,933	238,933	100	0	0	0	0
Cedar Creek Reservoir in Trinity	76	644,686	644,686	100	0	0	29,578	5
Athens, Lake	77	29,435	29,435	100	0	0	0	0
Palestine, Lake	78	370,907	370,907	100	0	0	0	0
Tyler, Lake	79	73,256	73,256	100	0	0	0	0
Murvaul, Lake	80	38,284	38,284	100	0	0	0	0
Jacksonville, Lake	81	30,300	30,300	100	0	0	0	0
Nacogdoches, Lake	82	39,521	39,221	99	-300	-1	-300	-1
Houston County Lake	83	17,113	17,113	100	0	0	0	0
Sam Rayburn Reservoir	84	2,857,077	2,857,077	100	0	0	433,645	15
Toledo Bend Reservoir (Texas)	85	2,236,450	2,113,711	95	-96,751	-4	-47,464	-2
Toledo Bend Reservoir (TX & LA)	(85)	4,472,900	4,227,423	95	-193,502	-4	-94,928	-2
*Livingston, Lake	86	1,741,867	1,741,867	100	0	0	0	0
B A Steinhagen Lake	87	66,966	59,506	89	8,388	13	7,601	11
Conroe, Lake	88	416,188	415,798	100	-390	0	14,616	4
TOTAL		9,814,609	9,683,227	99	-89,546	-1	440,879	4
TRANS-PECOS								
Red Bluff Reservoir	89	289,670	72,204	25	-683	0	-6,119	-2
TOTAL		289,670	72,204	25	-683	0	-6,119	-2

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

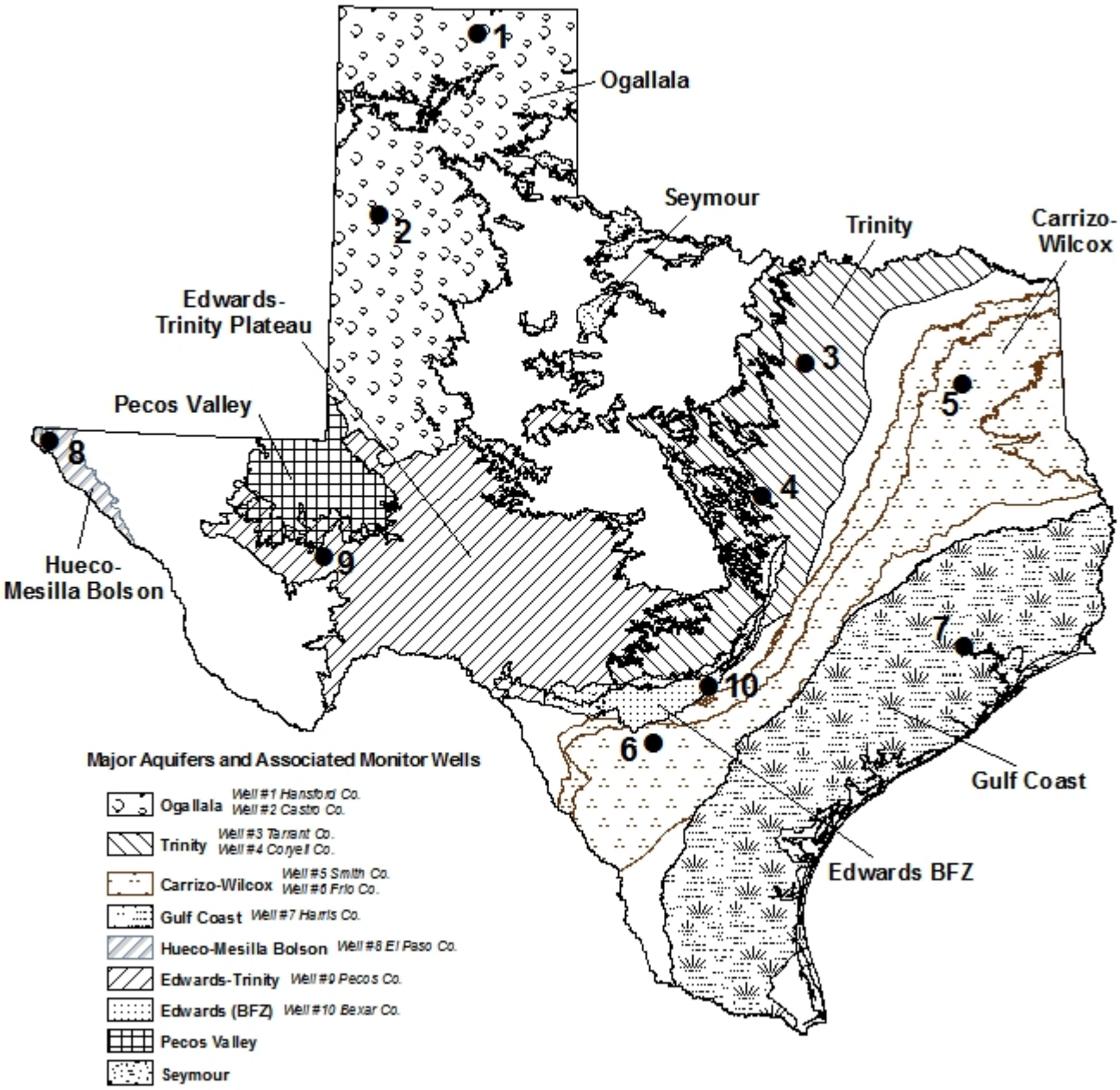
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late Mar. 2010 (acre-feet)	(%)	Change since Late February 2010 (acre-feet)	(%)	Change since Late March 2009 (acre-feet)	(%)
EDWARDS PLATEAU								
Oak Creek Reservoir	90	39,260	24,330	62	382	1	-4,669	-12
E V Spence Reservoir	91	517,272	22,997	4	-1,557	0	-24,923	-5
O C Fisher Lake	92	79,483	0	0	0	0	0	0
*O H Ivie Reservoir	93	554,335	240,123	43	-1,194	0	-53,055	-10
Twin Buttes Reservoir	94	177,850	35,628	20	2,052	1	-9,553	-5
Brady Creek Reservoir	95	29,110	17,318	59	455	2	3,483	12
Buchanan, Lake	96	875,610	631,041	72	38,943	4	66,488	8
Lyndon B Johnson, Lake	97	113,690	112,018	99	64	0	1,285	1
*Amistad Reservoir (Texas)	98	1,840,849	1,724,000	94	-11,000	-1	-158,000	-9
*Amistad Reservoir (TX & Mexico)	(98)	3,275,532	3,110,000	95	-57,000	-2	-165,532	-5
TOTAL		4,227,459	2,807,455	66	28,145	1	-178,944	-4
SOUTH CENTRAL								
Travis, Lake	99	1,113,902	1,113,902	100	73,269	7	423,619	38
*Austin, Lake	100	21,804	21,123	97	61	0	76	0
Somerville Lake	101	147,104	147,104	100	0	0	32,814	22
Canyon Lake	102	378,781	378,781	100	0	0	89,138	24
Medina Lake	103	254,823	104,991	41	9,635	4	-19,846	-8
*Coleto Creek Reservoir	104	31,040	31,040	100	0	0	7,085	23
TOTAL		1,947,454	1,796,941	92	82,965	4	532,886	27
UPPER COAST								
Houston, Lake	105	128,863	128,863	100	0	0	0	0
Texana, Lake	106	153,246	153,246	100	0	0	60,799	40
TOTAL		282,109	282,109	100	0	0	60,799	22
SOUTHERN								
Choke Canyon Reservoir	107	695,262	483,675	70	-6,483	-1	-59,493	-9
Corpus Christi, Lake	108	256,961	154,875	60	-4,911	-2	5,066	2
*Falcon Reservoir (Texas)	109	1,551,034	1,062,000	68	23,000	1	-470,000	-30
*Falcon Reservoir (TX & Mexico)	(109)	2,646,817	1,869,000	71	100,000	4	-777,817	-29
TOTAL		2,503,257	1,700,550	68	11,606	0	-524,427	-21
STATE TOTAL		31,068,501	26,989,810	87	73,649	0	1,640,861	5

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

GROUNDWATER LEVELS IN OBSERVATION WELLS

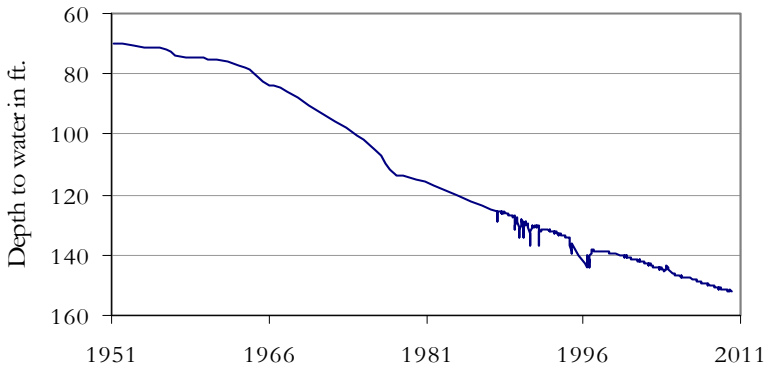


March, 2010

Water level measurements were available for all ten key monitoring wells. Water levels rose in five of the ten monitoring wells since the beginning of March, ranging from 0.01 feet in the Hansford County Ogallala well to 0.58 feet in the Smith County Carrizo-Wilcox well. Water levels declined in the remaining monitoring wells, ranging from 1.21 feet in the Harris County Gulf Coast well to 14.73 feet in the Frio County Carrizo-Wilcox well. The J-17 well in San Antonio recorded a water level of 52.99 feet below land surface, 3.87 feet below last month's measurement. This water level is 18.01 feet above the Stage 1 critical management level.

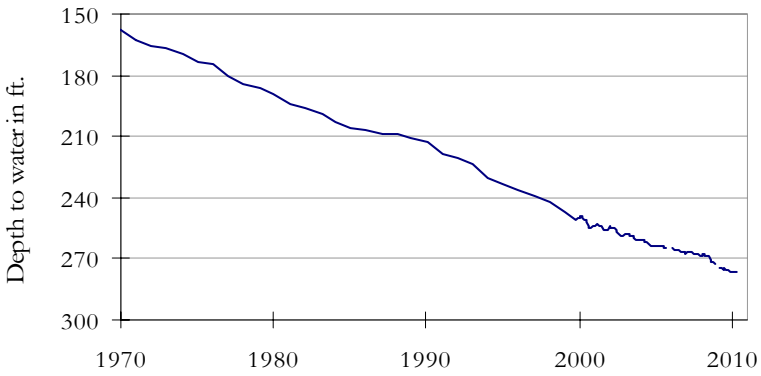
MARCH GROUNDWATER LEVELS IN OBSERVATION WELLS

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



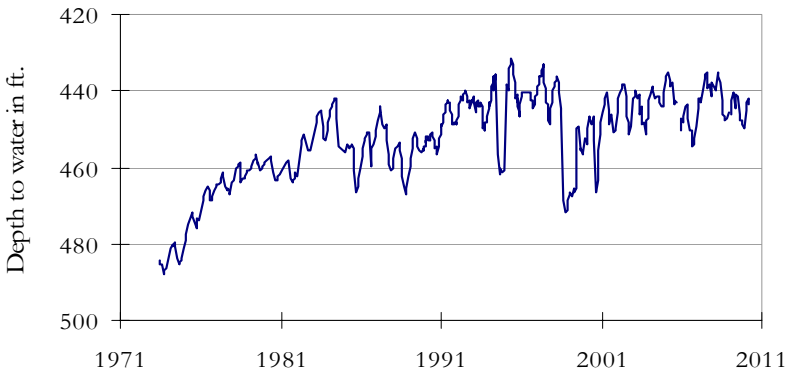
The late March water level measurement in this Ogallala Aquifer well, elevation 2,962 feet above sea level, was 151.75 feet below land surface. This measurement was 0.01 feet above last month's measurement, 0.52 feet below last year's measurement, and 81.63 feet below the initial measurement recorded in 1951.

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



The late March water level measurement in this Ogallala Aquifer well, elevation 3,816 feet above sea level, was 276.62 feet below land surface. This measurement was 0.01 feet above last month's measurement, 2.10 feet below last year's measurement, and 120.62 feet below the initial measurement recorded in 1968.

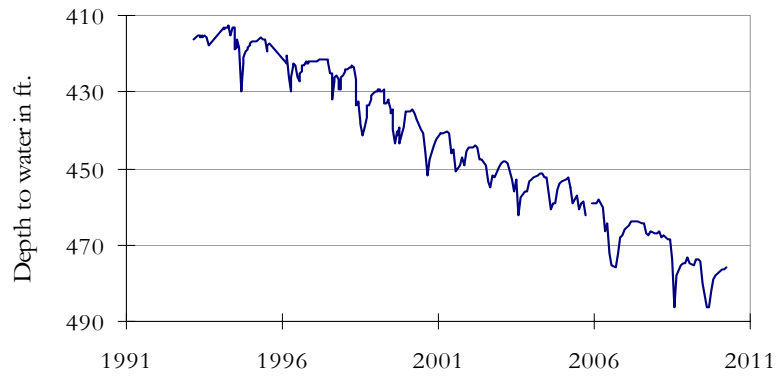
(3) State Well ID 32-15-504
Near Hurst, Tarrant County
Paluxy Formation-Trinity Aquifer



The late March water level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 443.30 feet below land surface. This measurement was 1.37 feet below last month's measurement, 2.74 feet below last year's measurement, and 65.30 feet below the initial measurement recorded in 1955.

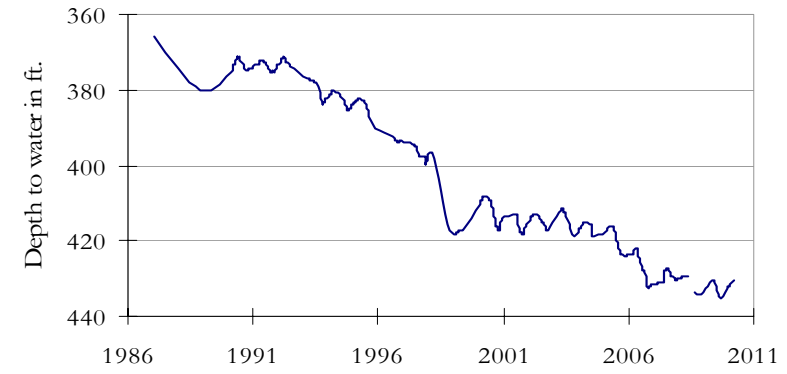
*** ID is used in this publication to differentiate between the monitoring well number (1 - 10) as displayed on the aquifer map and the TWDB's six- or seven-digit state well "identification" number.**

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



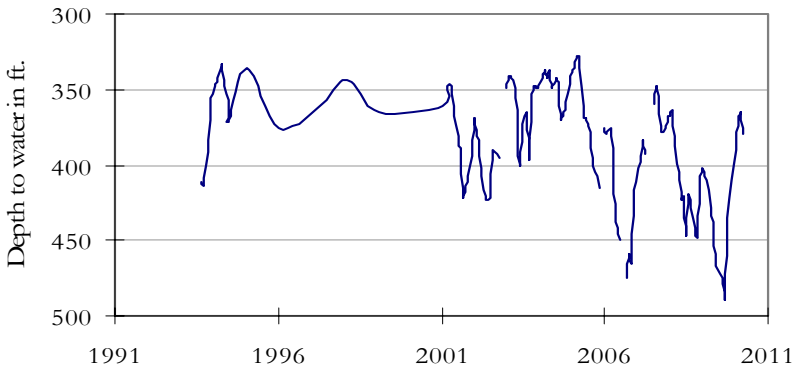
The late March water level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 475.76 feet below land surface. This water level was 0.53 feet above last month's measurement, 1.81 feet below last year's measurement, and 183.76 feet below the initial measurement recorded in 1955.

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



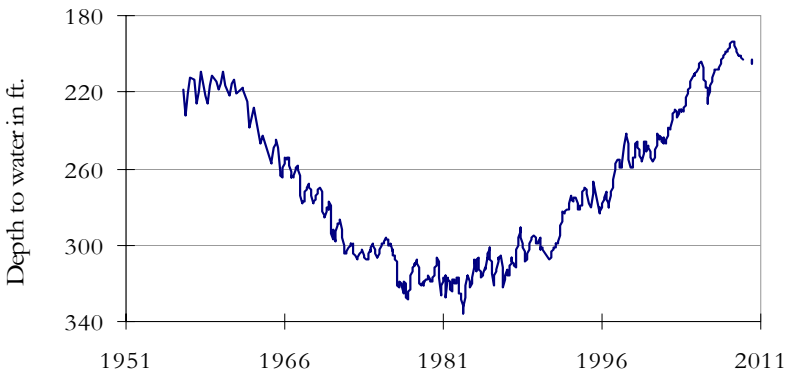
The late March water level measurement in this Carrizo-Wilcox Aquifer well, elevation 555 feet above sea level, was 430.30 feet below land surface. This water level was 0.58 feet above last month's measurement, 0.95 feet above last year's measurement, and 64.30 feet below the initial measurement recorded in 1987.

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



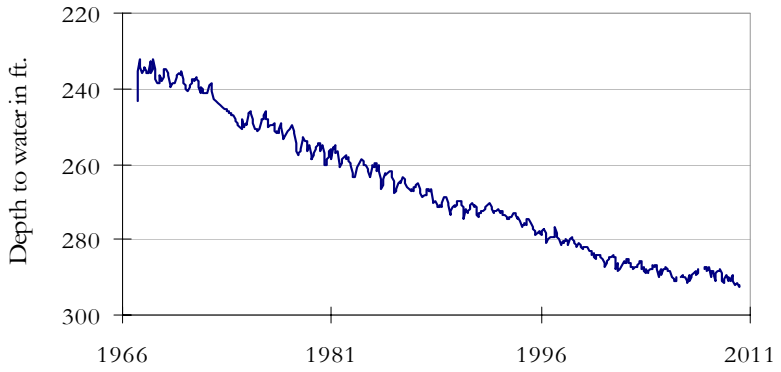
The late March water level measurement in this Carrizo-Wilcox Aquifer well, elevation 652 feet above sea level, was 379.93 feet below land surface. This was 14.73 feet below last month's measurement, 48.29 feet above last year's measurement, and 99.93 feet below the initial measurement recorded in 1963.

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



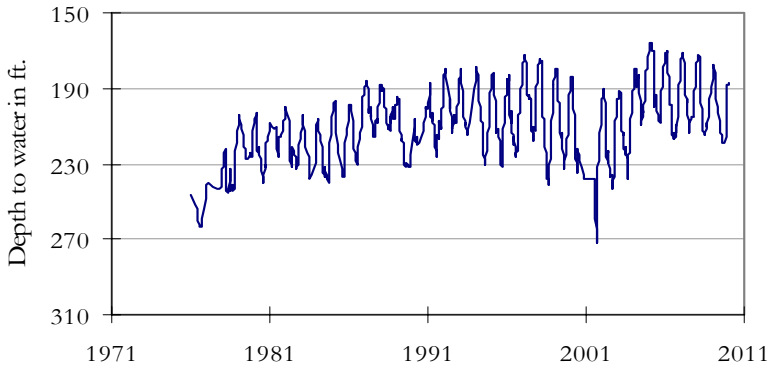
The late March water level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level, was 204.66 feet below land surface. This was 1.21 feet below last month's measurement, 2.12 feet below last year's measurement, and 69.16 feet below the initial measurement recorded in 1947.

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



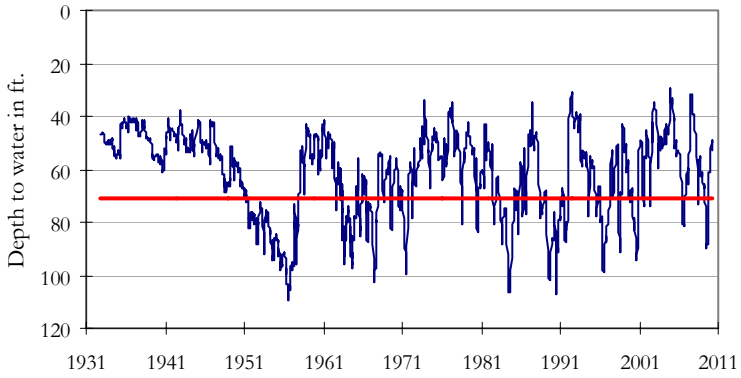
The late March water level measurement in this Hueco-Mesilla Bolson Aquifer well, elevation 3,882 feet above sea level, was 292.10 feet below land surface. This water level was 0.22 feet above last month's measurement, 2.65 feet below last year's measurement, and 60.20 feet below the initial measurement recorded in 1964.

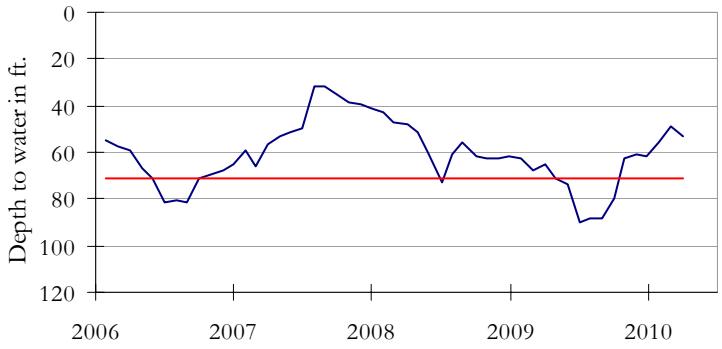
(9) State Well ID 52-16-802
Fort Stockton, Pecos County
Edwards-Trinity (Plateau) Aquifer



The late March water level measurement in this Edwards-Trinity Plateau Aquifer well, elevation 3,199 feet above sea level was 194.97 feet below land surface. This water level was 5.56 feet below last year's measurement, and 51.91 feet above the initial measurement recorded in 1976.

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

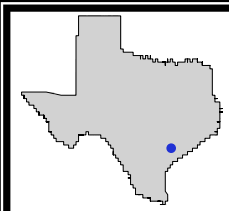




The late March water level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 52.99 feet below land surface. This was 3.87 feet below last month's measurement, 12.46 feet above last year's measurement, and 6.35 feet below the initial measurement recorded in 1932.

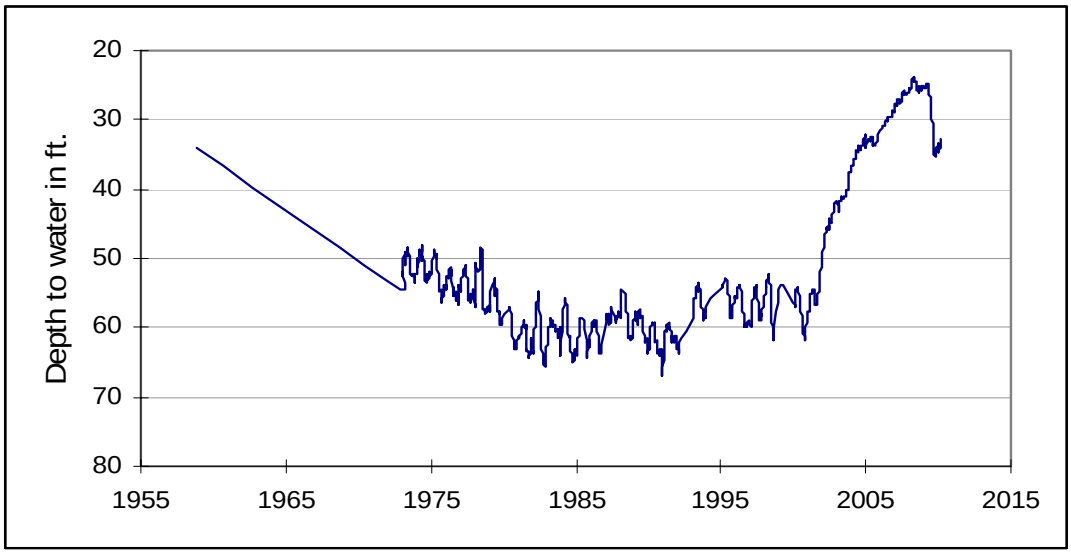
***** Water levels below the red line indicate Edwards Aquifer Authority Stage 1 drought restrictions. *****

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 80-173-502
Victoria County



This satellite telemetry equipped recorder well, located 4 miles northwest of Bloomington, at an elevation of 68 feet above sea level, was completed in the Gulf Coast Aquifer. Water levels have risen steadily since 2001, although a recent drop in water levels has been observed due to the extreme drought impacting the area in 2009 as surface water rights were limited due to low flow conditions on the Guadalupe River.

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