

# Texas Water Development Board



**W**ater **Conditions**

## RESERVOIR STORAGE

*August 2009*

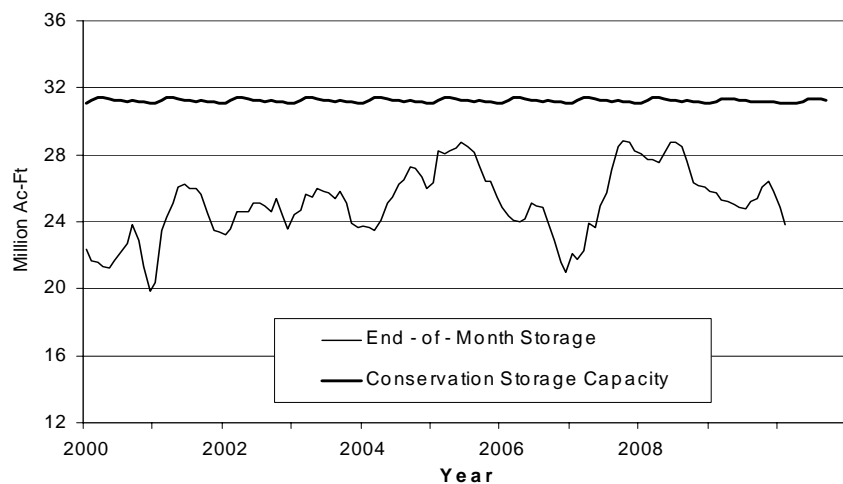
Storage in the state's major reservoirs continues to decrease. Near the end of August, the 109 reservoirs monitored for this report held 23.84 million acre-feet\* in conservation storage, or 76 percent of the conservation storage capacity of the state's major water supply reservoirs. This is just over 1 million acre-feet less than last month.

Storage was at 100% in seven reservoirs, with five of these reservoirs being in the East Region. On the other hand, six lakes were at or below 10% full: O C Fisher Lake was still effectively empty, Palo Duro Reservoir (1%) was nearly empty, E.V. Spence Reservoir and Lake J. B. Thomas were both at 6%, Lake Meredith stayed 8% full, and Lake Electra has dropped to 9% full.

Only the East Region(91%) has storage at or above 90% of capacity; the High Plains (8%) and Trans-Pecos regions (22%) remained very low. Storage decreased in all regions over the month. Since last year, storage increased slightly in the East and Trans-Pecos regions, and decreased everywhere else.

\* 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.

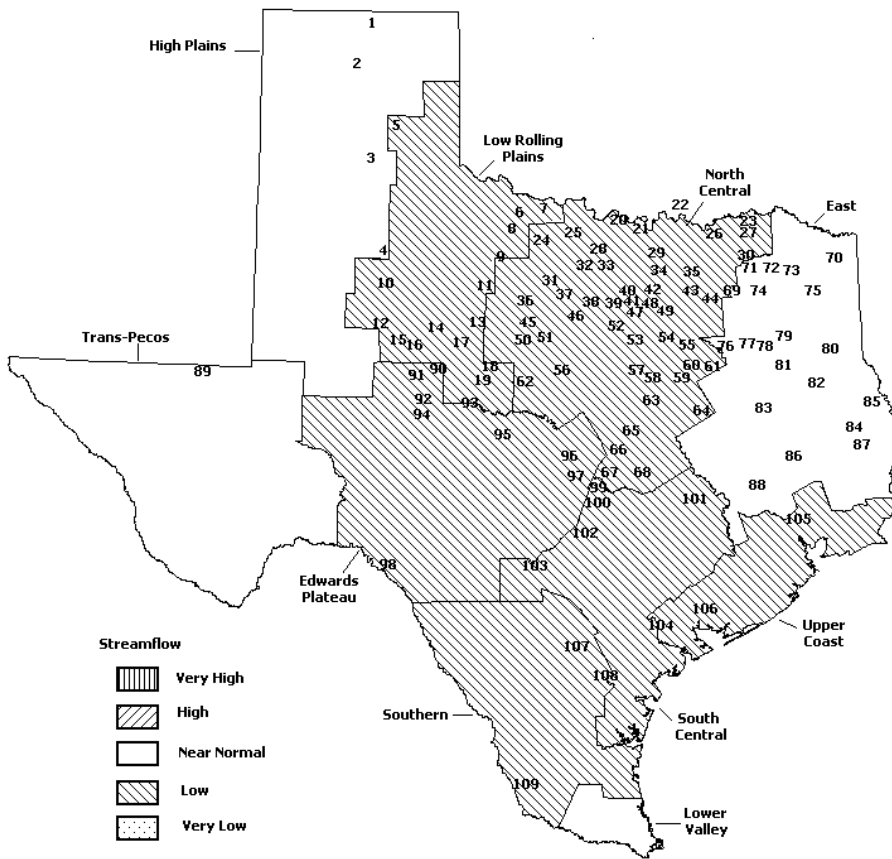
# STREAMFLOW

Of 28 reporting index stations in August, computed 30-day mean flows were high (5% - 30%) at 2 stations, low (70% - 95%) at 14 stations, very low (>95%) at 4 stations, and near normal (30% - 70%) at the remaining 8 stations. Compared to July, flows have increased at 9 index stations and decreased at 16 stations.

On a regional basis, flows in August were low in all regions except the High Plains, Trans-Pecos, and East Texas regions, where the flows were normal. Streamflow in the Lower Valley Region is not monitored.

## AUGUST STREAMFLOW CONDITIONS

Reservoirs Shown on Map



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

## CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation Storage		Change since Late July 2009		Change since Late August 2008		
		Capacity (acre-feet)	Late Aug. (acre-feet)	2009 (%)	2009 (%)	2008 (acre-feet)	2008 (%)	
<b>HIGH PLAINS</b>								
Palo Duro Reservoir	1	60,897	725	1	-83	0	-378	-1
Meredith, Lake (Texas)	2	500,000	40,002	8	0	0	-12,558	-3
Meredith, Lake (Texas & Oklahoma)	(2)	779,556	40,002	5	0	0	-12,558	-2
MacKenzie Reservoir	3	46,429	6,202	13	-16	0	-107	0
White River Lake	4	29,880	3,954	13	-603	-2	3,562	12
TOTAL		637,206	50,883	8	-702	0	-9,481	-1
<b>LOW ROLLING PLAINS</b>								
Greenbelt Lake	5	59,500	16,611	28	-644	-1	-2,708	-5
*Electra, Lake	6	5,626	518	9	-111	-2	-687	-12
N. Fork Buffalo Crk Reservoir	7	15,400	4,394	29	-518	-3	-435	-3
Kemp, Lake	8	245,308	149,866	61	-10,239	-4	-45,586	-19
Millers Creek Reservoir	9	27,888	13,286	48	-989	-4	-5,211	-19
Alan Henry Reservoir	10	94,808	89,733	95	-1,286	-1	-4,537	-5
Stamford, Lake	11	51,570	36,793	71	-1,077	-2	-2,006	-4
J B Thomas, Lake	12	199,931	11,027	6	-1,240	-1	-4,087	-2
Fort Phantom Hill, Lake	13	70,030	49,494	71	-2,873	-4	-17,762	-25
Sweetwater, Lake	14	10,006	6,147	61	-349	-3	-2,312	-23
Colorado City, Lake	15	31,793	18,644	59	-744	-2	-4,469	-14
Champion Creek Reservoir	16	41,618	8,130	20	-241	-1	-1,438	-3
Abilene, Lake	17	6,099	2,183	36	-361	-6	-2,692	-44
Coleman, Lake	18	38,076	23,143	61	-1,123	-3	-7,923	-21
Hords Creek Lake	19	5,684	1,653	29	-258	-5	-1,857	-33
TOTAL		903,337	431,622	48	-22,053	-2	-103,710	-11
<b>NORTH CENTRAL</b>								
Nocona, Lake (Farmers Crk)	20	21,445	19,232	90	-946	-4	165	1
Hubert H Moss Lake	21	24,058	22,291	93	-625	-3	-292	-1
Texoma, Lake (Texas)	22	1,248,903	1,230,852	99	-66,532	-5	-18,051	-1
Texoma, Lake (Texas & Oklahoma)	(22)	2,497,806	2,461,704	99	-133,064	-5	-36,102	-1
*Pat Mayse Lake	23	118,100	117,866	100	874	1	5,653	5
Kickapoo, Lake	24	85,825	40,311	47	-2,771	-3	-6,329	-7
Arrowhead, Lake	25	235,997	155,823	66	-10,627	-5	-20,328	-9
Bonham, Lake	26	11,026	9,240	84	-580	-5	-443	-4
Crook, Lake	27	9,195	8,668	94	176	2	238	3
Amon G Carter, Lake	28	19,903	16,043	81	-1,219	-6	-1,481	-7
Ray Roberts, Lake	29	798,758	765,100	96	-20,260	-3	-16,244	-2
Jim Chapman Lake (Cooper)	30	260,332	227,269	87	-13,694	-5	7,826	3
Graham, Lake	31	45,260	34,798	77	-1,804	-4	-7,357	-16
*Lost Creek Reservoir	32	11,950	9,366	78	-293	-2	-1,703	-14
Bridgeport, Lake	33	366,236	242,774	66	-16,807	-5	-77,843	-21
Lewisville Lake	34	543,988	477,588	88	-33,078	-6	3,359	1
Lavon Lake	35	443,844	382,577	86	-25,825	-6	7,120	2
Hubbard Creek Reservoir	36	318,067	219,460	69	-9,707	-3	-63,706	-20
Possum Kingdom Lake	37	540,340	463,061	86	-12,100	-2	-24,754	-5
*Mineral Wells, Lake	38	7,065	5,555	79	-288	-4	-235	-3
Weatherford, Lake	39	18,645	13,642	73	-67	0	-1,213	-7
Eagle Mountain Lake	40	182,500	144,019	79	-763	0	-17,418	-10
Worth, Lake	41	24,500	16,705	68	-1,243	-5	-3,257	-13
Grapevine Lake	42	164,702	144,207	88	-4,755	-3	1,754	1
Ray Hubbard, Lake	43	452,040	426,552	94	-16,809	-4	-11,059	-2
New Terrell City Lake	44	8,583	7,639	89	-384	-4	-224	-3
Daniel, Lake	45	9,435	4,587	49	-453	-5	-3,305	-35
Palo Pinto, Lake	46	27,150	7,528	28	-852	-3	-12,407	-46
Benbrook Lake	47	85,648	63,291	74	-7,194	-8	578	1
Arlington, Lake	48	38,740	29,549	76	-3,449	-9	1,107	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 July 2009		Change since Late August 2008		
			Late Aug. (acre-feet)	2009 (%)	(acre-feet)	(%)	(acre-feet)	(%)	
<b>NORTH CENTRAL (Continue)</b>									
Joe Pool Lake	49	142,861	135,554	95	-1,624	-1	2,881	2	
*Cisco, Lake	50	26,000	16,955	65	-669	-3	-4,075	-16	
Leon, Lake	51	26,421	17,821	67	-993	-4	-6,087	-23	
Granbury, Lake	52	128,046	101,991	80	-2,505	-2	-12,437	-10	
Pat Cleburne, Lake	53	25,730	19,409	75	-1,152	-4	-2,452	-10	
Waxahachie, Lake	54	10,779	8,299	77	-164	-2	-991	-9	
Bardwell Lake	55	46,122	38,376	83	-2,393	-5	-2,935	-6	
Proctor Lake	56	55,457	28,127	51	-2,791	-5	-13,702	-25	
Whitney, Lake	57	553,349	324,781	59	-10,305	-2	-94,775	-17	
Aquilla Lake	58	45,092	37,222	83	-2,552	-6	-784	-2	
Navarro Mills Lake	59	55,817	45,888	82	-3,727	-7	-2,997	-5	
*Halbert, Lake	60	6,033	2,731	45	-460	-8	-1,618	-27	
Richland-Chambers Reservoir	61	1,103,816	922,826	84	-33,059	-3	-97,174	-9	
*Brownwood, Lake	62	131,429	92,334	70	-1,123	-1	-15,085	-11	
Waco, Lake	62	198,943	178,680	90	-10,302	-5	-7,458	-4	
Limestone, Lake	64	208,015	164,254	79	-17,261	-8	-36,320	-17	
Belton Lake	65	435,225	341,785	79	-30,528	-7	-93,440	-21	
Stillhouse Hollow Lake	66	227,771	204,023	90	-6,204	-3	-13,672	-6	
Georgetown, Lake	67	36,823	13,740	37	-2,376	-6	-5,311	-14	
Granger Lake	68	52,525	36,750	70	-2,667	-5	-8,947	-17	
Tawakoni, Lake	69	888,126	808,271	91	-22,438	-3	-11,219	-1	
TOTAL		10,526,615	8,845,410	84	-407,368	-4	-688,447	-7	
<b>EAST</b>									
Wright Patman Lake	70	262,330	262,330	100	-15,156	-6	0	0	
*Sulphur Springs, Lake	71	17,838	17,838	100	0	0	1,003	6	
Cypress Springs, Lake	72	67,689	67,620	100	-69	0	-69	0	
Bob Sandlin, Lake	73	200,579	199,221	99	-1,358	-1	2,533	1	
Fork Reservoir, Lake	74	604,927	595,687	98	-9,240	-2	-4,488	-1	
O the Pines, Lake	75	267,672	267,090	100	-582	0	-582	0	
Cedar Creek Reservoir in Trinity	76	644,686	602,882	94	-11,262	-2	1,557	0	
Athens, Lake	77	29,435	27,910	95	-431	-1	71	0	
Palestine, Lake	78	370,907	348,324	94	-7,369	-2	-22,583	-6	
Tyler, Lake	79	73,256	65,671	90	-2,533	-3	-7,208	-10	
Murvault, Lake	80	38,284	36,325	95	-1,037	-3	-100	0	
Jacksonville, Lake	81	30,300	28,652	95	-379	-1	-311	-1	
Nacogdoches, Lake	82	39,521	33,801	86	-1,416	-4	-3,091	-8	
Houston County Lake	83	17,113	14,923	87	-699	-4	-2,190	-13	
Sam Rayburn Reservoir	84	2,857,077	2,435,787	85	-89,286	-3	43,243	2	
Toledo Bend Reservoir (Texas)	85	2,236,450	1,935,274	87	-64,172	-3	32,156	1	
Toledo Bend Reservoir (TX & LA)	(85)	4,472,900	3,870,549	87	-128,343	-3	64,312	1	
*Livingston, Lake	86	1,741,867	1,735,000	100	10,000	1	-6,867	0	
B A Steinhagen Lake	87	66,966	64,345	96	-1,008	-2	10,867	16	
Conroe, Lake	88	416,188	391,303	94	0	0	-7,150	-2	
TOTAL		9,983,085	9,129,983	91	-195,997	-2	36,791	0	
<b>TRANS-PECOS</b>									
Red Bluff Reservoir	89	289,670	65,000	22	-5,756	-2	2,249	1	
TOTAL		289,670	65,000	22	-5,756	-2	2,249	1	

## CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

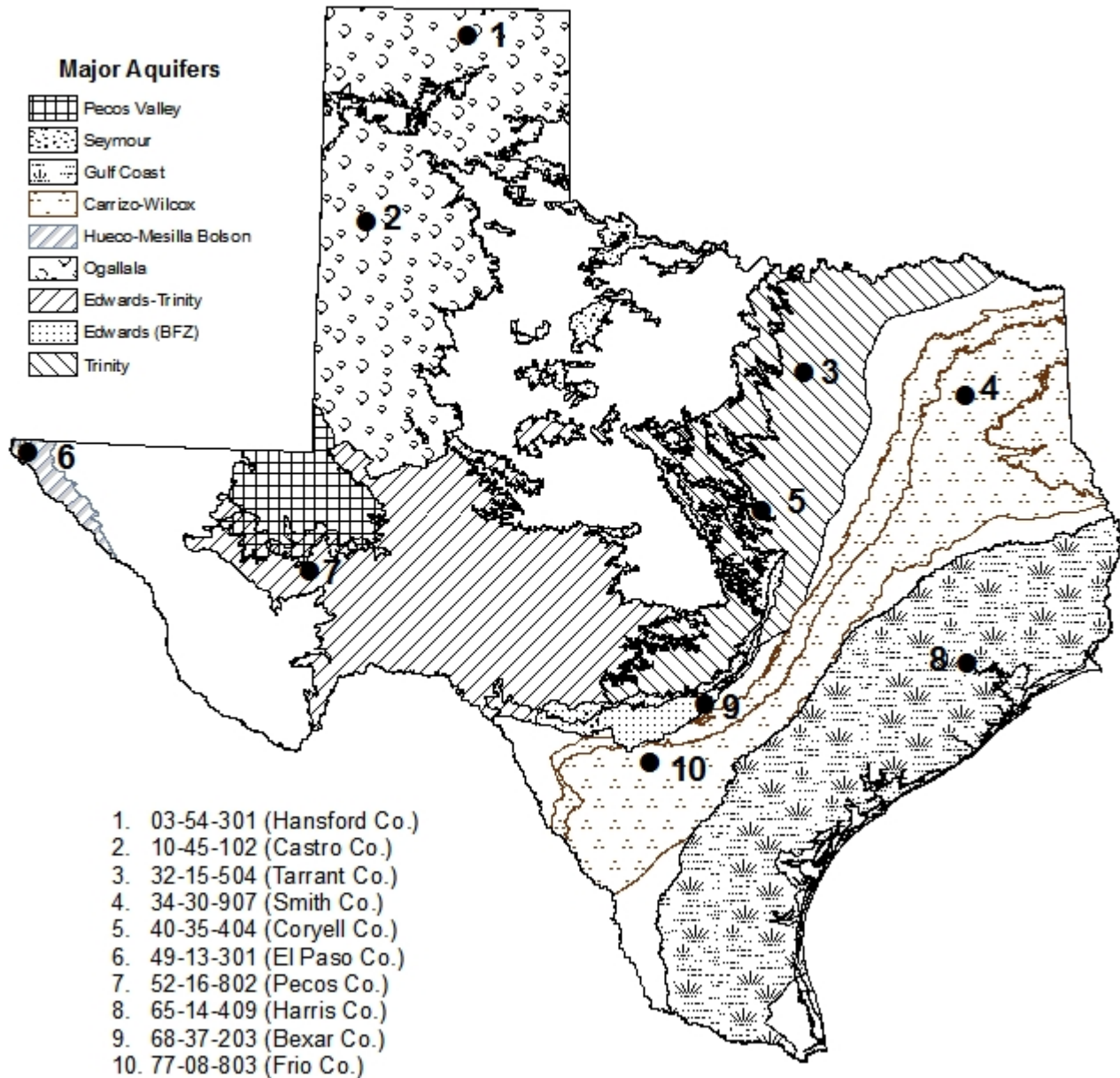
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage		Change since Late July 2009		Change since Late August 2008		
			Late Aug. (acre-feet)	2009 (%)	(acre-feet)	(%)	(acre-feet)	(%)	
<b>EDWARDS PLATEAU</b>									
Oak Creek Reservoir	90	39,260	25,060	64	-1,296	-3	-8,312	-21	
E V Spence Reservoir	91	517,272	32,388	6	-3,734	-1	-31,614	-6	
O C Fisher Lake	92	79,483	0	0	0	0	0	0	
*O H Ivie Reservoir	93	554,335	251,746	45	-11,429	-2	-83,826	-15	
Twin Buttes Reservoir	94	177,850	29,040	16	-3,806	-2	-22,857	-13	
Brady Creek Reservoir	95	29,110	13,599	47	-796	-3	-3,309	-11	
Buchanan, Lake	96	824,519	367,334	45	-76,002	-9	-338,066	-41	
Lyndon B Johnson, Lake	97	113,690	110,733	97	65	0	-1,221	-1	
*Amistad Reservoir (Texas)	98	1,840,849	1,780,000	97	-30,000	-2	-326,000	-18	
*Amistad Reservoir (TX & Mexico)	(98)	3,275,532	3,178,000	97	-64,000	-2	884,000	27	
<b>TOTAL</b>		<b>4,176,368</b>	<b>2,609,900</b>	<b>62</b>	<b>-126,998</b>	<b>-3</b>	<b>-815,205</b>	<b>-20</b>	
<b>SOUTH CENTRAL</b>									
Travis, Lake	99	1,113,902	435,971	39	-51,762	-5	-347,974	-31	
*Austin, Lake	100	21,804	20,730	95	-242	-1	-60	0	
Somerville Lake	101	147,104	108,282	74	-4,864	-3	-21,636	-15	
Canyon Lake	102	378,781	261,961	69	-8,422	-2	-64,200	-17	
Medina Lake	103	254,823	64,987	26	-13,236	-5	-114,438	-45	
*Coletto Creek Reservoir	104	31,040	22,660	73	-389	-1	-1,662	-5	
<b>TOTAL</b>		<b>1,947,454</b>	<b>914,591</b>	<b>47</b>	<b>-78,915</b>	<b>-4</b>	<b>-549,970</b>	<b>-28</b>	
<b>UPPER COAST</b>									
Houston, Lake	105	128,863	128,863	100	0	0	0	0	
Texana, Lake	106	153,246	91,679	60	-1,396	-1	-24,334	-16	
<b>TOTAL</b>		<b>282,109</b>	<b>220,542</b>	<b>78</b>	<b>-1,396</b>	<b>0</b>	<b>-24,334</b>	<b>-9</b>	
<b>SOUTHERN</b>									
Choke Canyon Reservoir	107	695,262	475,937	68	-18,826	-3	-141,799	-20	
Corpus Christi, Lake	108	256,961	74,813	29	-16,945	-7	-133,236	-52	
*Falcon Reservoir (Texas)	109	1,551,034	1,021,000	66	-128,000	-8	240,000	15	
*Falcon Reservoir (TX & Mexico)	(109)	2,646,817	1,723,000	65	-143,000	-5	755,000	29	
<b>TOTAL</b>		<b>2,503,257</b>	<b>1,571,750</b>	<b>63</b>	<b>-163,771</b>	<b>-7</b>	<b>-35,035</b>	<b>-1</b>	
<b>STATE TOTAL</b>		<b>31,249,101</b>	<b>23,839,681</b>	<b>76</b>	<b>-1,002,956</b>	<b>-3</b>	<b>-2,187,142</b>	<b>-7</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

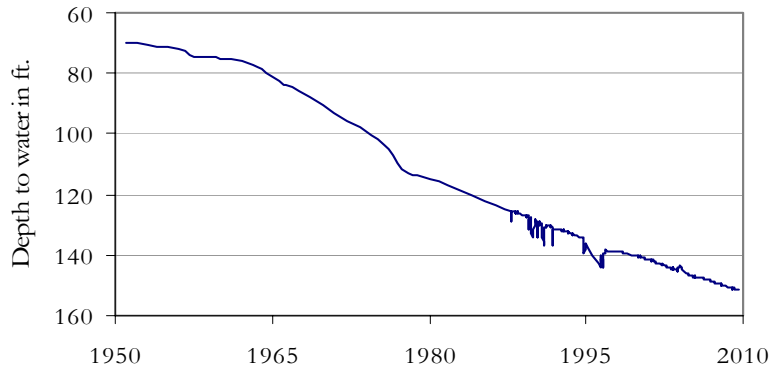


August, 2009

Water level measurements were available for nine out of the ten key monitoring wells. Water levels rose in two of the ten monitoring wells since the beginning of August, increasing by from 0.30 feet in the Bexar County Edwards Balcones Fault Zone (BFZ) Aquifer well and by 0.52 feet in the El Paso County Hueco-Mesilla Bolson Aquifer well. Water levels declined in the remaining monitoring wells, ranging from 0.05 feet in the Hansford County Ogallala Aquifer well to 12.40 feet in the Frio County Carrizo-Wilcox Aquifer well. The J-17 well in San Antonio recorded a water level of 88.09 feet below land surface, 0.30 feet above last month's measurement. This water level is 2.91 feet above the Stage 3 critical management level. Stage 2 drought restrictions are currently in place.

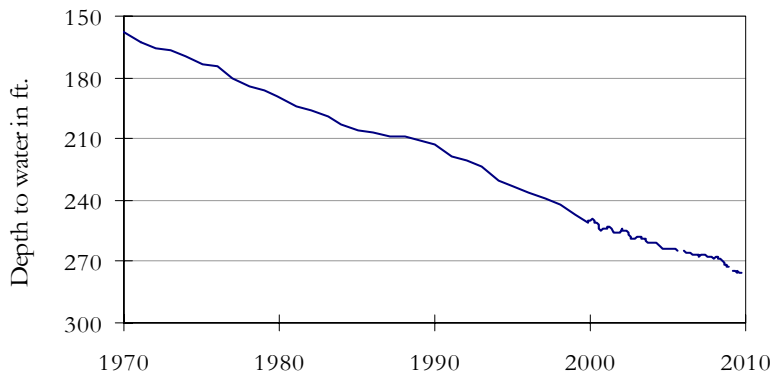
# AUGUST GROUNDWATER LEVELS IN OBSERVATION WELLS

**1) Well No. 03-54-301  
Near Spearman, Hansford County  
Ogallala Aquifer**



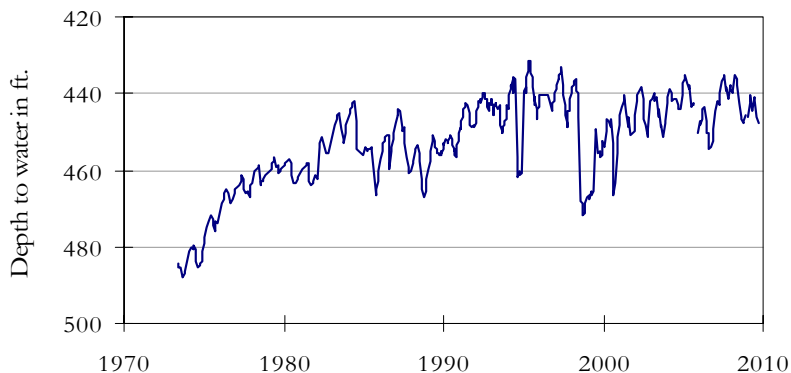
The late August water level measurement in this Ogallala Aquifer well, elevation 2,962 feet above sea level, was 151.50 feet below land surface. This measurement was 0.05 feet below last month's measurement, 1.04 feet below last year's measurement, and 81.38 feet below the initial measurement recorded in 1951.

**2) Well No. 10-45-102  
Southwest Castro County  
Ogallala Aquifer**



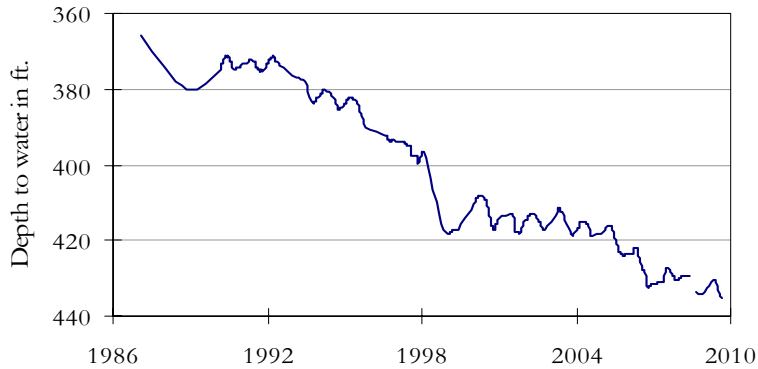
The late August water level measurement in this Ogallala Aquifer well, elevation 3,816 feet above sea level, was 275.36 feet below land surface. This measurement was 0.34 feet below last month's measurement, 4.20 feet below last year's measurement, and 119.36 feet below the initial measurement recorded in 1968.

**3) Well No. 32-15-504  
Near Hurst, Tarrant County  
Paluxy Formation-Trinity Aquifer**



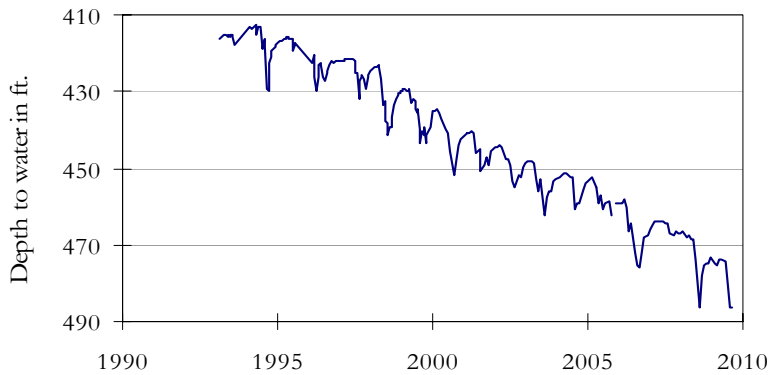
The late August water level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 447.67 feet below land surface. This measurement was 1.66 feet below last month's measurement, 1.26 feet below last year's measurement, and 69.67 feet below the initial measurement recorded in 1955.

**4) Well No. 34-30-907  
Red Springs, Smith County  
Carrizo-Wilcox Aquifer**



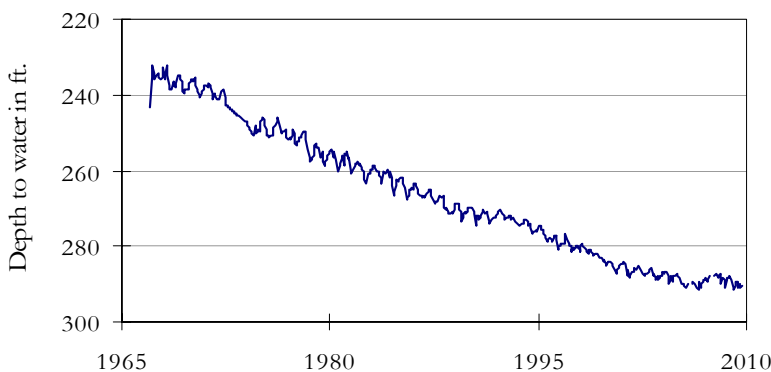
The late August water level measurement in this Carrizo-Wilcox Aquifer well, elevation 555 feet above sea level, was 435.07 feet below land surface. This water level was 0.91 feet below last month's measurement, 1.60 feet below last year's measurement, and 69.07 feet below the initial measurement recorded in 1987.

**5) Well No. 40-35-404  
Gatesville, Coryell County  
Hosston Formation-Trinity Aquifer**



The late August water level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 486.47 feet below land surface. This water level was 0.04 feet below last month's measurement, 8.33 feet below last year's measurement, and 194.47 feet below the initial measurement recorded in 1955.

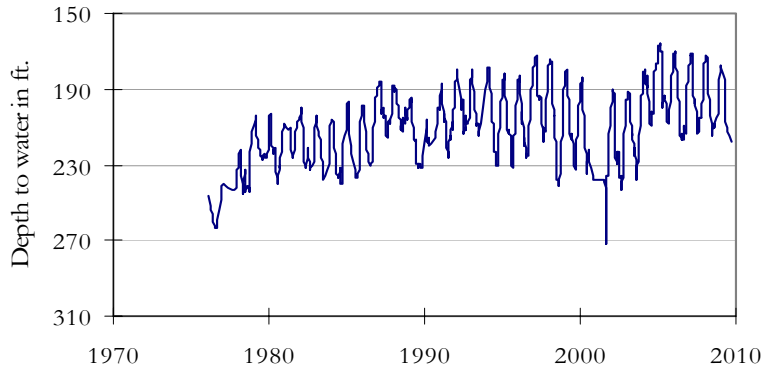
**6) Well No. 49-13-301  
El Paso, El Paso County  
Hueco-Mesilla Bolson Aquifer**



The late August water level measurement in this Hueco-Mesilla Bolson Aquifer well, elevation 3,882 feet above sea level, was 290.68 feet below land surface. This water level was 0.52 feet above last month's measurement, 2.13 feet below last year's measurement, and 58.78 feet below the initial measurement in 1964.

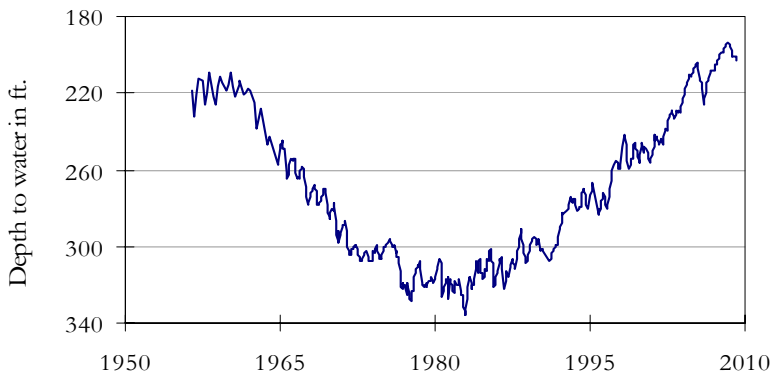


**7) Well No. 52-16-802  
Fort Stockton, Pecos County  
Edwards-Trinity (Plateau) Aquifer**



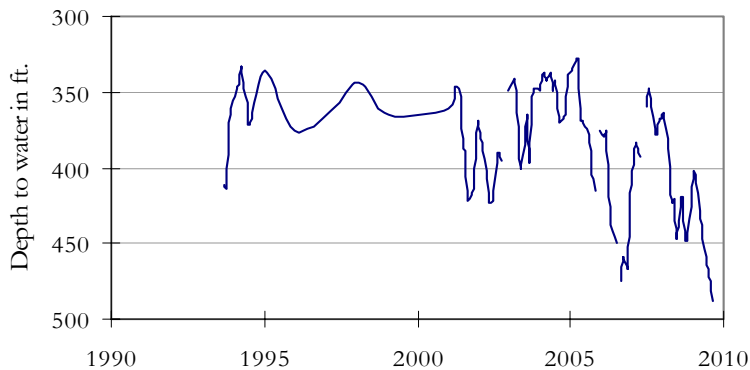
The late August water level measurement in this Edwards-Trinity Plateau Aquifer well, elevation 3,199 feet above sea level, was 218.25 feet below land surface. This water level was 4.05 feet below last month's measurement, 7.55 feet below last year's measurement, and 28.63 feet above the initial measurement in 1976.

**8) Well No. 65-14-409  
Alief, Harris County  
Evangeline Formation-Gulf Coast Aquifer**



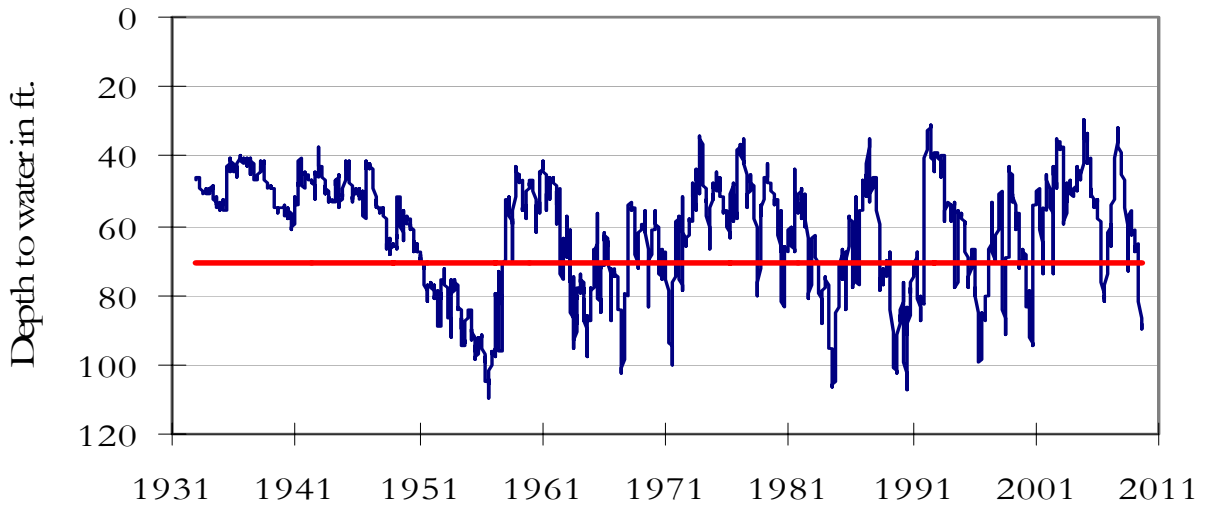
The late August water level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level was not available. The last reading available, in March 2009, was 202.54 feet below land surface.

**10) Well No. 77-08-803  
Pearsall, Frio County  
Carrizo-Wilcox Aquifer**



The late August water level measurement in this Carrizo-Wilcox Aquifer well, elevation 652 feet above sea level, was 487.66 feet below land surface. This was 12.40 feet below last month's measurement, 64.84 feet below last year's measurement, and 207.66 feet below the initial measurement recorded in 1963.

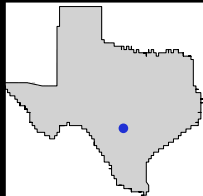
9) Well No. 68-37-203 (J-17)  
 In San Antonio, Bexar County  
 Edwards (BFZ) Aquifer



The late August water level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 88.09 feet below land surface. This was 0.30 feet above last month's measurement, 32.78 feet below last year's measurement, and 41.45 feet below the initial measurement recorded in 1932. Stage 2 drought restrictions are still in place.

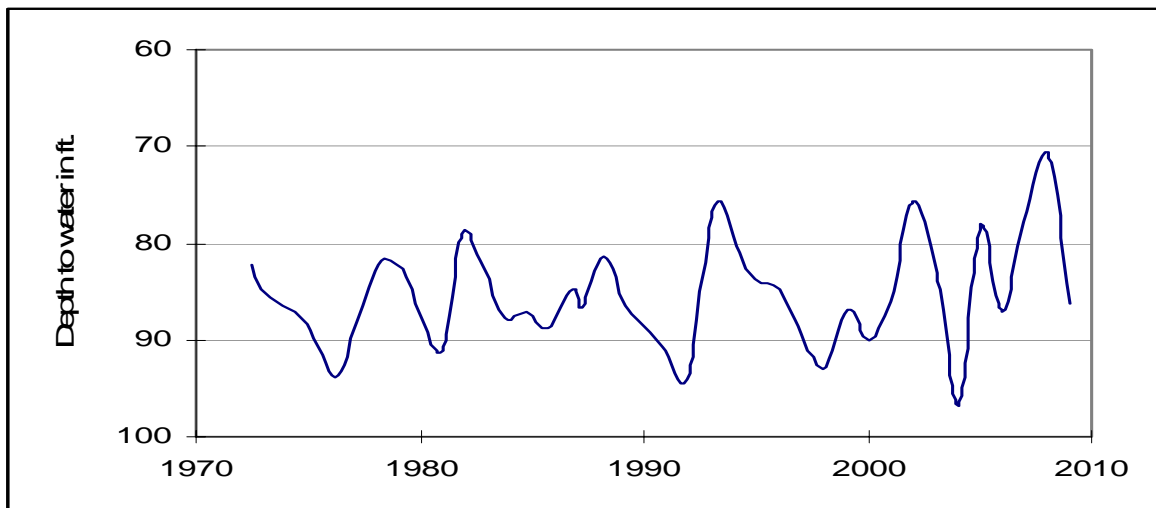
\*\*\* Water levels below the red line indicate Edwards Aquifer Authority Stage 1 drought restrictions. \*\*\*

***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.

Well No 57-10-101  
 Llano County



This water level observation well, located 2 miles northwest of Valley Spring, at an elevation of 1440 feet above sea level, was completed in the Hickory Aquifer. The aquifer is mainly used for irrigation and by several municipalities in the region. Naturally occurring radioactivity in excess of the state's primary drinking water standards has been detected throughout the aquifer.

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