Texas Water Development Board

WATER Conditions

RESERVOIR STORAGE

June 2008

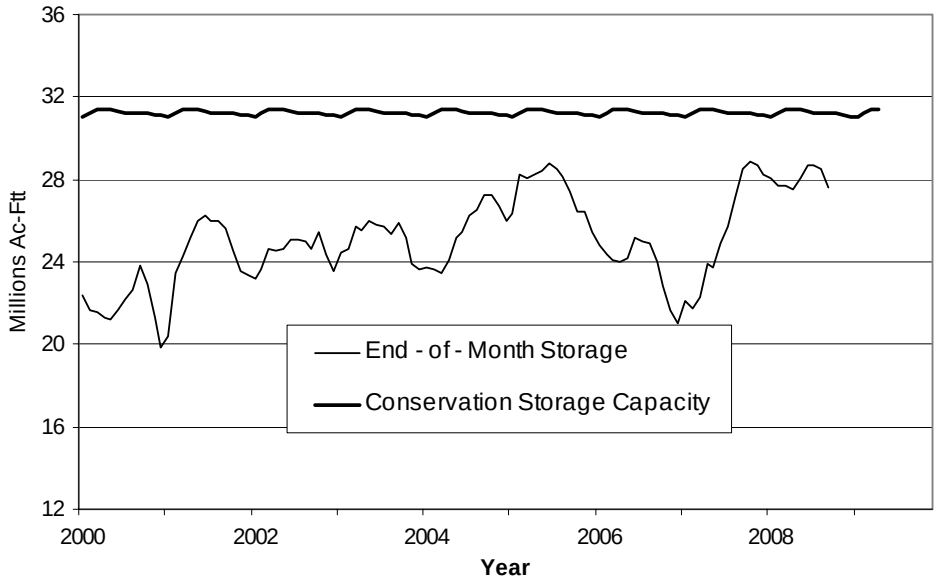
Near the end of June, the 109 reservoirs monitored for this report were 88* percent full, on average, holding 27.64 million acre-feet in conservation storage.

Storage was at 100% in 12 reservoirs. Two regions, East (97%) and North Central Regions (96%) had storage at or above 90% of capacity; however, the High Plains Region (6%) and the Trans-Pecos Region (27%) remain very low. Lake Meredith, the largest reservoir in the High Plains Region, is holding less than 3% of its conservation capacity.

Regionally, storage decreased in all nine regions. Compared to this time last year, storage decreased in eight of nine regions. State total storage went down 0.88 million acre-feet during the month and 0.84 million acre-feet over the past 12 months.

* 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.

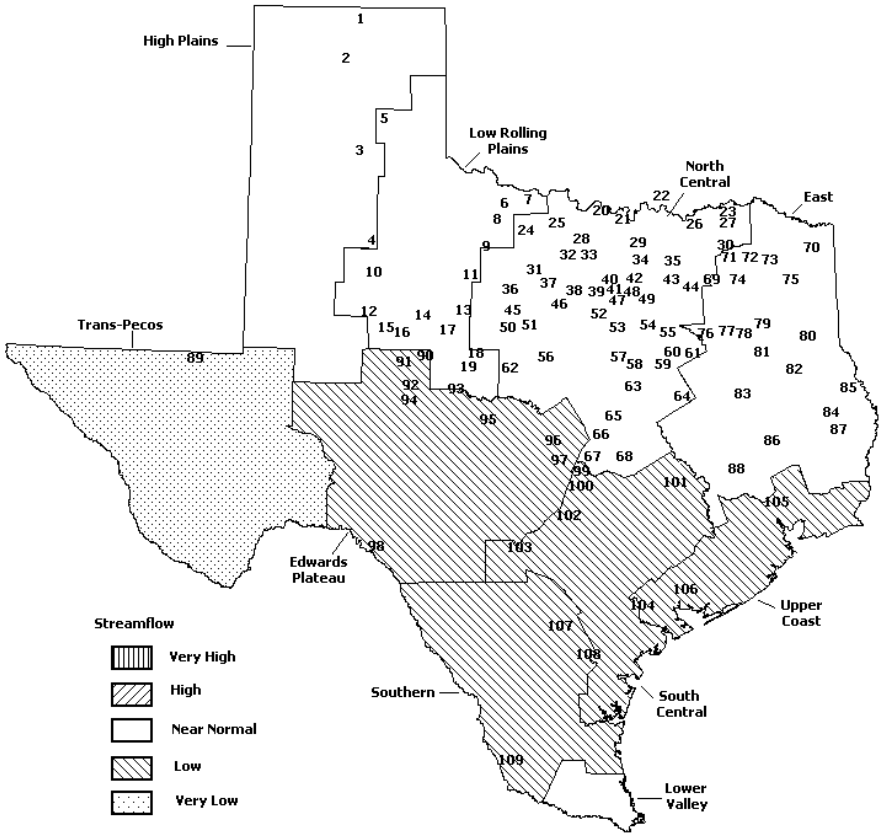
PO BOX 13231 • 1700 N. Congress Avenue • Austin, TX 78711-3231
Telephone (512) 463-7847 • Telefax (512) 475-2053 • 1-800-RELAYTX (for the hearing impaired)

STREAMFLOW

Of 29 reporting index stations in June, computed 30-day mean flows were very high (<5%) at 1 station, high (5% - 30%) at 2 stations, low (70% - 95%) at 12 stations, very low (>95%) at 2 stations, and near normal (30% - 70%) at the remaining 12 stations. Compared to May, flows increased at only 5 index stations, but decreased at 23 stations.

On a regional basis, flows in June were very low in the Trans-Pecos Region, low in Edwards Plateau, South Central, Upper Coast, and Southern Regions, and normal in all other regions. 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. 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. Vrady 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 Jun. 2008 (acre-feet)	(%)	Change since Late May 2008 (acre-feet)	(%)	Change since Late June 2007 (acre-feet)	(%)
HIGH PLAINS								
Palo Duro Reservoir	1	60,897	269	0	-111	0	-1,914	-3
Meredith, Lake (Texas)	2	500,000	29,073	5	-6,946	-1	-46,995	-9
Meredith, Lake (Texas & Oklahoma)	(2)	779,556	29,073	3	-6,946	-1	-46,995	-6
MacKenzie Reservoir	3	46,429	6,620	14	-191	0	-1,872	-4
White River Lake	4	29,880	559	1	-309	-1	-2,432	-8
TOTAL		637,206	36,521	6	-7,557	-1	-53,213	-8
LOW ROLLING PLAINS								
Greenbelt Lake	5	59,500	20,264	34	-679	-1	-4,433	-7
*Electra, Lake	6	5,626	1,497	26	-187	-3	-608	-11
N. Fork Buffalo Crk Reservoir	7	15,400	4,178	27	-494	-3	-2,576	-17
Kemp, Lake	8	245,308	236,724	96	-8,584	-3	-8,584	-3
Millers Creek Reservoir	9	27,888	20,629	73	-728	-3	-7,259	-26
Alan Henry Reservoir	10	94,808	90,100	95	-158	0	-4,708	-5
Stamford, Lake	11	51,570	43,534	84	-1,450	-3	-8,036	-16
J B Thomas, Lake	12	199,931	16,514	8	-2,210	-1	-16,705	-8
Fort Phantom Hill, Lake	13	70,030	66,563	95	-2,696	-4	1,296	2
Sweetwater, Lake	14	10,006	9,207	92	-37	0	9,207	92
Colorado City, Lake	15	31,793	24,361	76	-850	-3	-1,234	-4
Champion Creek Reservoir	16	41,618	9,493	22	395	1	3,833	9
Abilene, Lake	17	6,099	5,385	88	-310	-5	2,476	41
Coleman, Lake	18	38,076	33,166	87	-917	-2	-4,910	-13
Hords Creek Lake	19	5,684	3,973	69	-299	-5	-1,711	-30
TOTAL		903,337	585,588	65	-19,204	-2	-43,952	-5
NORTH CENTRAL								
Nocona, Lake (Farmers Crk)	20	21,445	19,669	91	-757	-4	-1,776	-8
Hubert H Moss Lake	21	24,058	23,459	97	-599	-2	-599	-2
Texoma, Lake (Texas)	22	1,334,294	1,312,763	98	13,841	1	-21,531	-2
Texoma, Lake (Texas & Oklahoma)	(22)	2,668,589	2,625,527	98	27,683	1	-43,062	-2
*Pat Mayse Lake	23	118,100	118,100	100	0	0	0	0
Kickapoo, Lake	24	85,825	53,116	61	-2,734	-3	-23,934	-28
Arrowhead, Lake	25	235,997	189,728	80	-8,943	-4	-46,269	-20
Bonham, Lake	26	11,026	10,655	96	-371	-3	-371	-3
Crook, Lake	27	9,195	9,060	98	-31	0	-135	-1
Amon G Carter, Lake	28	19,903	18,814	94	-827	-4	-1,089	-5
Ray Roberts, Lake	29	798,758	791,476	99	-7,282	-1	-7,282	-1
Jim Chapman Lake (Cooper)	30	260,332	258,769	99	-1,563	-1	3,895	1
Graham, Lake	31	45,260	44,674	98	-512	-1	-586	-1
*Lost Creek Reservoir	32	11,950	11,584	96	-277	-2	-366	-3
Bridgeport, Lake	33	366,236	354,197	96	-12,039	-3	-12,039	-3
Lewisville Lake	34	543,988	527,739	97	-16,249	-3	-16,249	-3
Lavon Lake	35	443,844	428,716	96	-15,128	-3	-15,128	-3
Hubbard Creek Reservoir	36	318,067	301,327	94	-7,105	-2	23,058	7
Possum Kingdom Lake	37	540,340	518,686	95	973	0	-1,783	0
*Mineral Wells, Lake	38	7,065	6,301	89	-447	-6	-764	-11
Weatherford, Lake	39	18,645	17,166	92	-1,178	-6	-1,479	-8
Eagle Mountain Lake	40	182,500	170,857	93	-11,643	-6	-11,643	-6
Worth, Lake	41	24,500	22,209	90	202	1	-2,291	-9
Grapevine Lake	42	164,702	160,906	97	-3,796	-2	-3,796	-2
Ray Hubbard, Lake	43	452,040	447,287	98	-4,753	-1	-4,753	-1
New Terrell City Lake	44	8,583	8,515	99	-68	-1	-68	-1
Daniel, Lake	45	9,435	8,972	95	-463	-5	4,017	43
Palo Pinto, Lake	46	27,150	22,664	83	-2,783	-10	-4,486	-17
Benbrook Lake	47	85,648	81,750	95	-3,898	-5	-3,898	-5
Arlington, Lake	48	38,740	34,528	89	-3,813	-10	-4,212	-11

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late Jun. 2008 (acre-feet)	(%)	Change since Late May 2008 (acre-feet)	(%)	Change since Late June 2007 (acre-feet)	(%)
NORTH CENTRAL (Continue)								
Joe Pool Lake	49	142,861	141,089	98	-1,772	-1	-1,772	-1
*Cisco, Lake	50	26,000	22,062	84	963	4	-83	0
Leon, Lake	51	26,421	26,157	99	310	1	-264	-1
Granbury, Lake	52	128,046	120,202	93	-3,917	-3	-1	0
Pat Cleburne, Lake	53	25,730	24,346	94	-1,102	-4	-1,384	-5
Waxahachie, Lake	54	10,779	8,598	79	-1,031	-10	-2,181	-20
Bardwell Lake	55	46,122	45,162	97	-960	-2	-960	-2
Proctor Lake	56	55,457	49,042	88	-5,124	-9	-6,415	-12
Whitney, Lake	57	553,349	469,091	84	-49,082	-9	-84,258	-15
Aquilla Lake	58	45,092	41,519	92	-2,884	-6	-3,573	-8
Navarro Mills Lake	59	55,817	54,375	97	-1,442	-3	-1,442	-3
*Halbert, Lake	60	6,033	4,967	82	-596	-10	-630	-10
Richland-Chambers Reservoir	61	1,103,816	1,069,703	96	-33,291	-3	-34,113	-3
*Brownwood, Lake	62	131,429	114,077	86	-5,968	-5	-17,352	-13
Waco, Lake	62	198,943	196,192	98	-2,751	-1	-2,751	-1
Limestone, Lake	64	208,015	196,793	94	-10,734	-5	-11,222	-5
Belton Lake	65	435,225	430,407	98	-4,818	-1	-4,818	-1
Stillhouse Hollow Lake	66	227,771	225,472	98	-2,299	-1	-2,299	-1
Georgetown, Lake	67	36,823	25,561	69	-3,871	-11	-11,262	-31
Granger Lake	68	52,525	51,290	97	-1,235	-2	-1,235	-2
Tawakoni, Lake	69	888,126	887,363	99	-763	0	-763	0
TOTAL		10,612,006	10,177,155	96	-224,610	-2	-344,334	-3
EAST								
Wright Patman Lake	70	292,668	292,668	100	-15,305	-5	-15,305	-5
*Sulphur Springs, Lake	71	17,838	17,838	100	0	0	0	0
Cypress Springs, Lake	72	67,689	67,689	100	0	0	0	0
Bob Sandlin, Lake	73	200,579	200,579	100	0	0	43,896	22
Fork Reservoir, Lake	74	604,927	604,927	100	0	0	0	0
O the Pines, Lake	75	267,672	267,672	100	0	0	28,739	11
Cedar Creek Reservoir in Trinity	76	644,686	636,327	98	-8,359	-1	-8,359	-1
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	36,091	94	-1,680	-4	-2,159	-6
Jacksonville, Lake	81	30,300	29,962	98	-338	-1	-338	-1
Nacogdoches, Lake	82	39,521	37,281	94	-1,150	-3	-1,257	-3
Houston County Lake	83	17,113	16,960	99	-127	-1	-153	-1
Sam Rayburn Reservoir	84	2,857,077	2,661,260	93	-58,748	-2	-172,242	-6
Toledo Bend Reservoir (Texas)	85	2,236,450	2,163,864	96	-61,832	-3	-16,130	-1
Toledo Bend Reservoir (TX & LA)	(85)	4,472,900	4,327,728	96	-123,665	-3	-32,261	-1
*Livingston, Lake	86	1,741,867	1,741,867	100	0	0	0	0
B A Steinhagen Lake	87	66,966	54,963	82	-9,079	-14	-8,173	-12
Conroe, Lake	88	416,188	406,054	97	-9,159	-2	-10,134	-2
TOTAL		10,013,423	9,709,600	97	-165,777	-2	-161,616	-2
TRANS-PECOS								
Red Bluff Reservoir	89	289,670	77,861	26	-11,957	-4	-20,973	-7
TOTAL		289,670	77,861	27	-11,957	-4	-20,973	-7

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

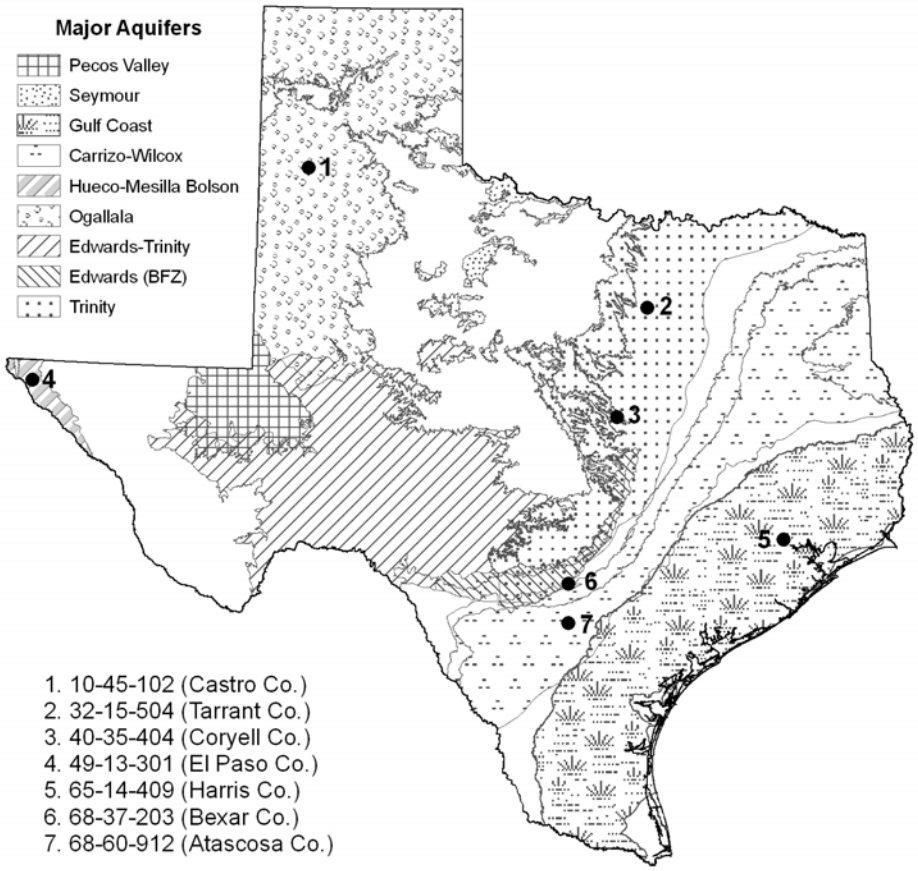
Name of Lake or Reservoir	No. on Map	Conservation Storage Capacity (acre-feet)	Conservation Storage Late Jun. 2008 (acre-feet)	(%)	Change since Late May 2008 (acre-feet)	(%)	Change since Late June 2007 (acre-feet)	(%)
EDWARDS PLATEAU								
Oak Creek Reservoir	90	39,260	35,634	90	-1,336	-3	23,568	60
E V Spence Reservoir	91	517,272	66,357	12	-1,080	0	-7,575	-1
O C Fisher Lake	92	79,483	0	0	0	0	0	0
*O H Ivie Reservoir	93	554,335	354,818	64	-12,502	-2	23,458	4
Twin Buttes Reservoir	94	177,850	62,476	35	-7,551	-4	-25,865	-15
Brady Creek Reservoir	95	29,110	18,985	65	-1,138	-4	2,622	9
Buchanan, Lake	96	824,519	801,696	97	-17,423	-2	-32,140	-4
Lyndon B Johnson, Lake	97	113,690	110,925	97	-965	-1	3,148	3
*Amistad Reservoir (Texas)	98	1,840,849	2,129,000	116	-65,000	-4	-45,000	-2
*Amistad Reservoir (TX & Mexico)	(98)	3,275,532	2,234,000	68	-56,000	-2	-502,000	-15
TOTAL		4,176,368	3,579,891	86	-106,995	-3	-57,784	-1
SOUTH CENTRAL								
Travis, Lake	99	1,113,902	896,821	80	-136,358	-12	-217,081	-19
*Austin, Lake	100	21,804	21,077	96	196	1	498	2
Somerville Lake	101	147,104	139,529	94	-7,254	-5	-7,575	-5
Canyon Lake	102	378,781	352,241	92	-16,828	-4	-26,540	-7
Medina Lake	103	254,823	197,666	77	-13,587	-5	-22,118	-9
*Coleto Creek Reservoir	104	31,040	26,522	85	-2,026	-7	-4,518	-15
TOTAL		1,947,454	1,633,856	84	-175,857	-9	-277,334	-14
UPPER COAST								
Houston, Lake	105	128,863	128,863	100	0	0	0	0
Texana, Lake	106	153,246	123,010	80	-5,219	-3	-28,586	-19
TOTAL		282,109	251,873	89	-5,219	-2	-28,586	-10
SOUTHERN								
Choke Canyon Reservoir	107	695,262	631,864	90	-18,144	-3	-5,465	-1
Corpus Christi, Lake	108	256,961	208,395	81	-19,708	-8	-48,566	-19
*Falcon Reservoir (Texas)	109	1,551,034	750,000	48	-122,000	-8	197,000	13
*Falcon Reservoir (TX & Mexico)	(109)	2,646,817	888,000	34	-158,000	-6	91,000	3
TOTAL		2,503,257	1,590,259	64	-159,852	-6	142,969	6
STATE TOTAL		31,364,830	27,642,604	88	-877,028	-3	-844,824	-3

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

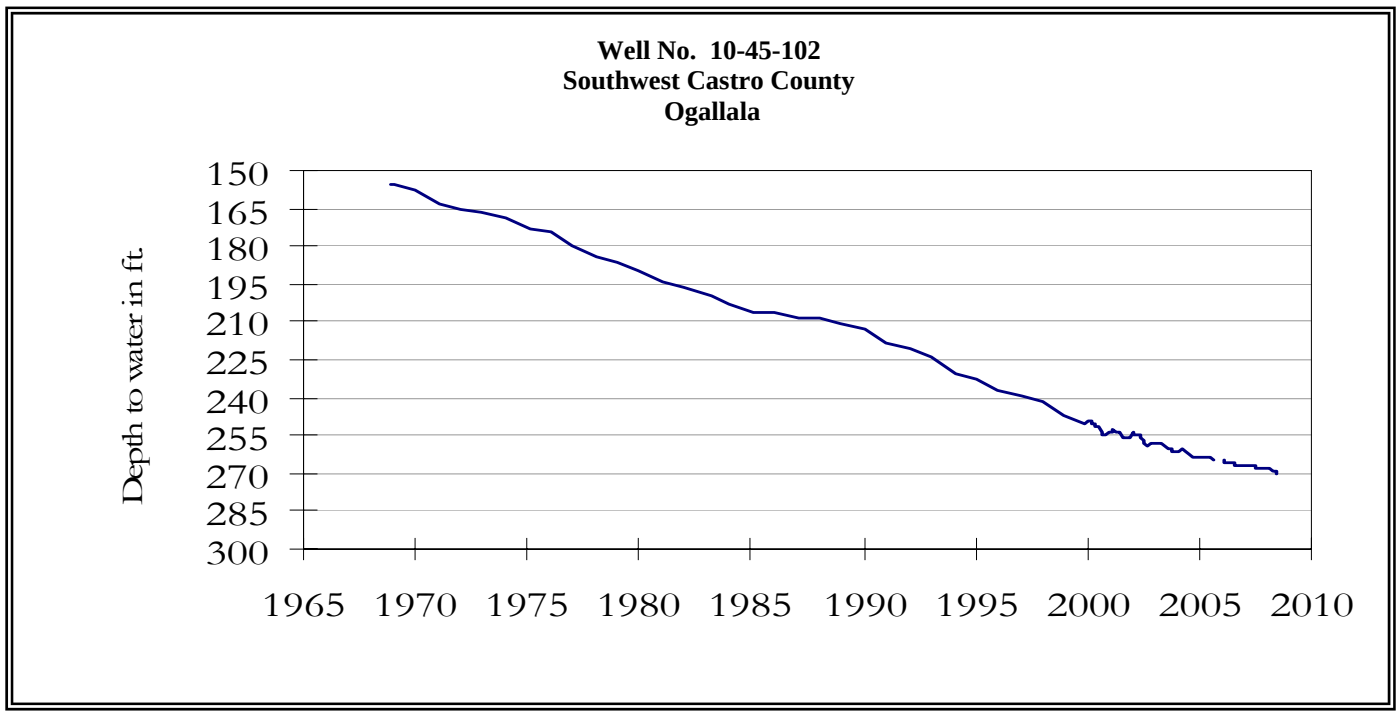
Note

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

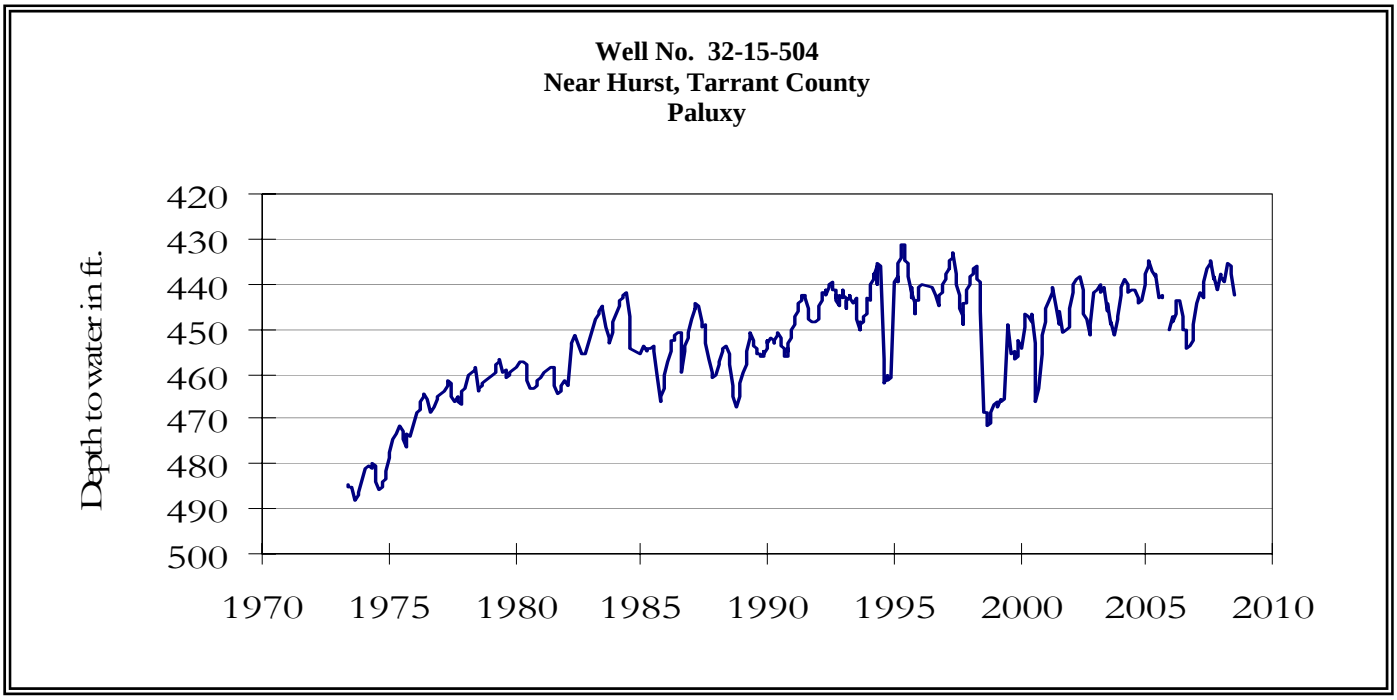
GROUND WATER LEVELS IN OBSERVATION WELLS



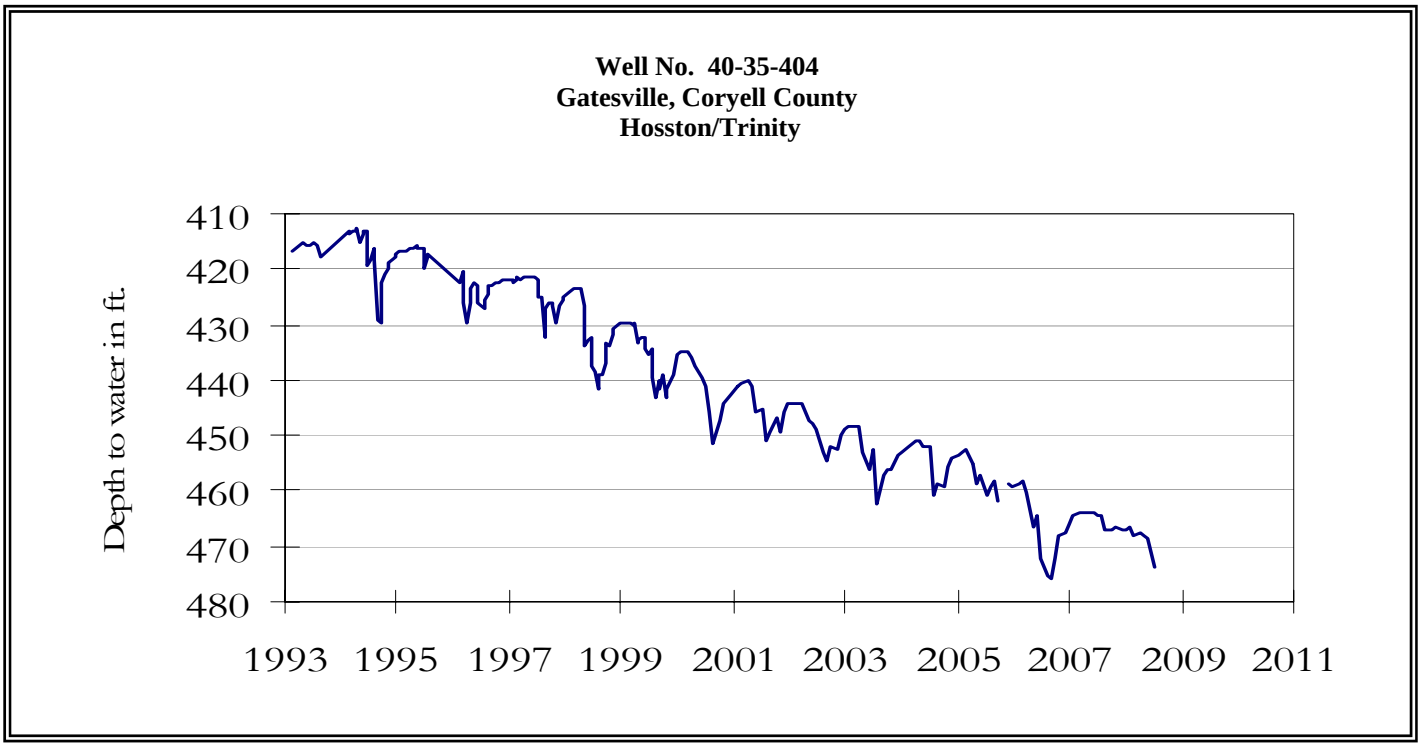
JUNE GROUND WATER LEVELS IN OBSERVATION WELLS



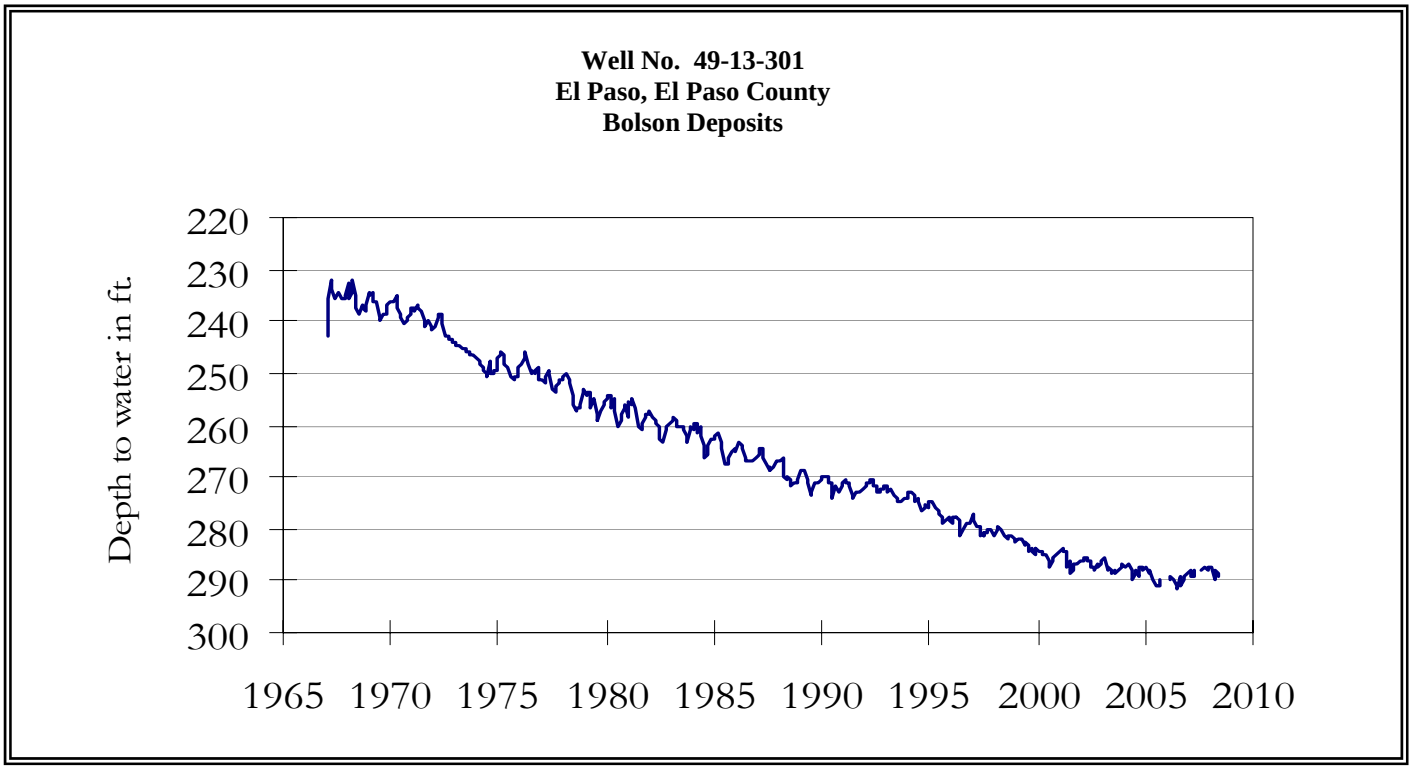
The late June water-level measurement in this Ogallala Aquifer well, elevation 3,816 feet above sea level, was 270.26 feet below land surface. This measurement was 1.35 feet below last month's measurement, 2.92 feet below last year's measurement, and 114.26 feet below the initial measurement recorded in 1968. No water level measurements were recorded for September through December 2005.



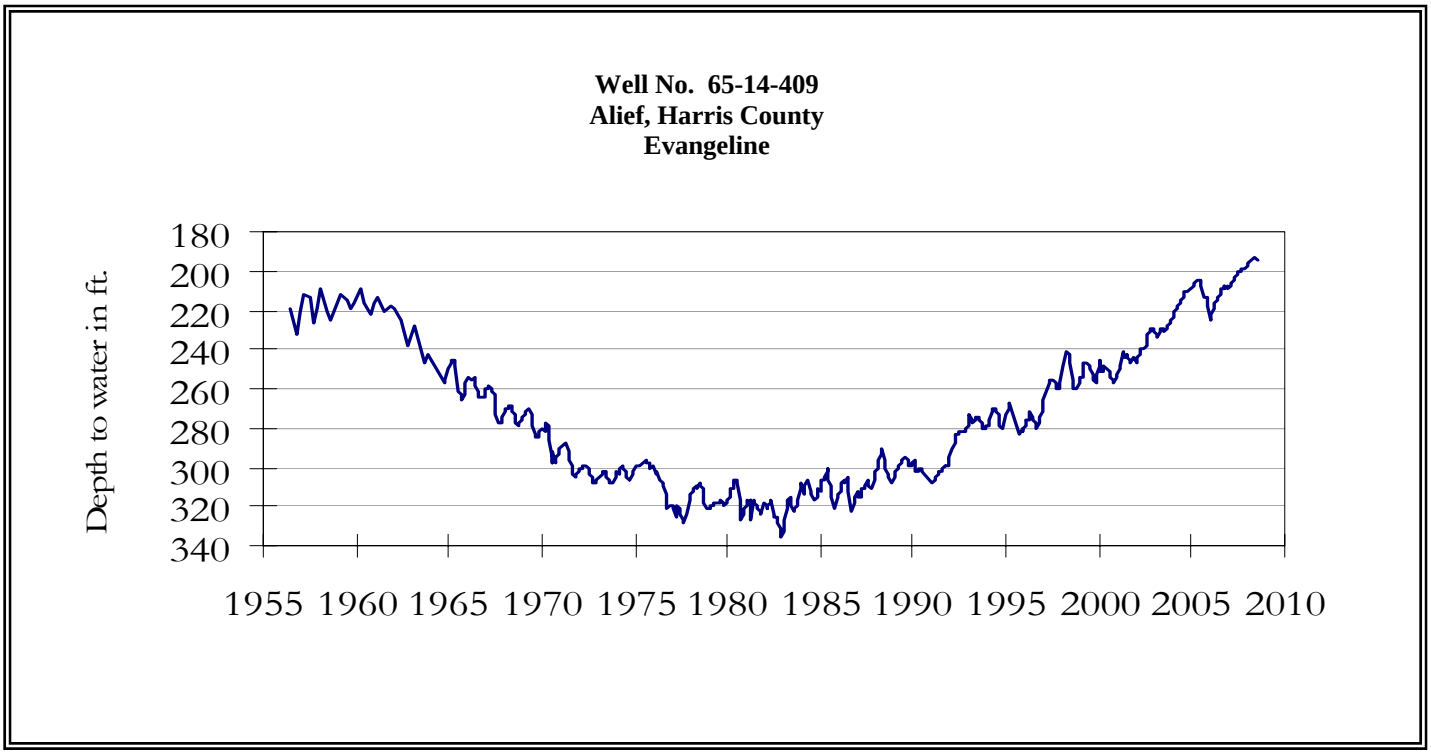
The late June water-level measurement in this Paluxy Formation Trinity Aquifer well, elevation 535 feet above sea level, was 442.63 feet below land surface. This measurement was 4.96 feet below last month's measurement, 7.13 feet below last year's measurement, and 64.63 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September or October 2005.



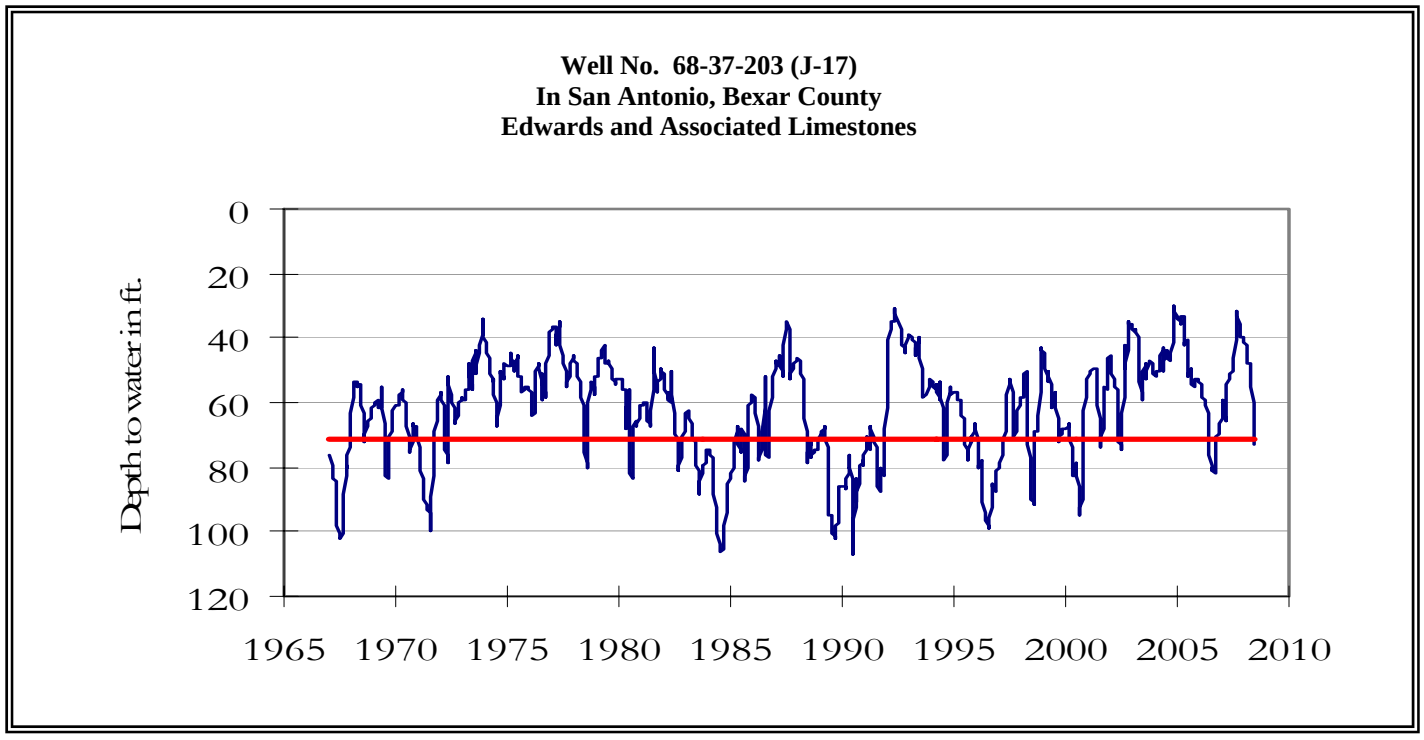
The late June water-level measurement in this Hosston Formation Trinity Aquifer well, elevation 823 feet above sea level, was 474.00 feet below land surface. This water level was 5.50 feet below last month's measurement, 9.78 feet below last year's measurement, and 182.00 feet below the initial measurement recorded in 1955. No water level measurement was recorded for October 2005.



The late June water-level measurement in this Hueco Bolson Aquifer well, elevation 3,882 feet above sea level, was 291.00 feet below land surface. This water level was 2.06 feet below last month's measurement, and 59.10 feet below the initial measurement in 1964. No water level measurements were recorded for May through July 2007, and October or December 2005.

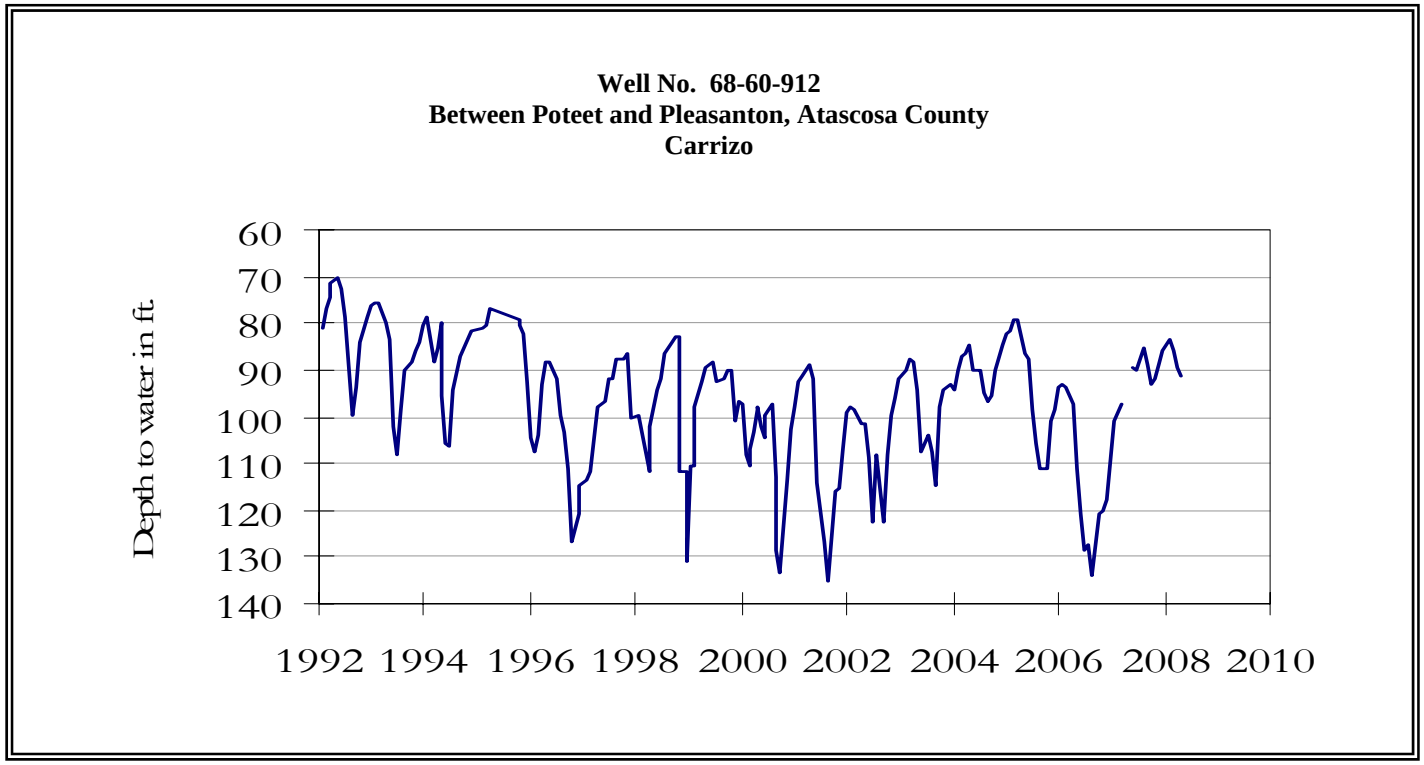


The late June water-level measurement in this Evangeline Formation Gulf Coast Aquifer well, elevation 66 feet above sea level, was 194.39 feet below land surface. This was 0.98 feet below last month's measurement, 6.53 feet above last year's measurement, and 58.89 feet below the initial measurement recorded in 1947.



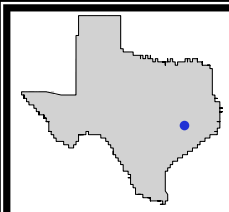
The late June water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above sea level, was 73.20 feet below land surface. This was 12.80 feet below last month's measurement, 23.10 feet below last year's measurement, and 26.56 feet below the initial measurement recorded in 1962.

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



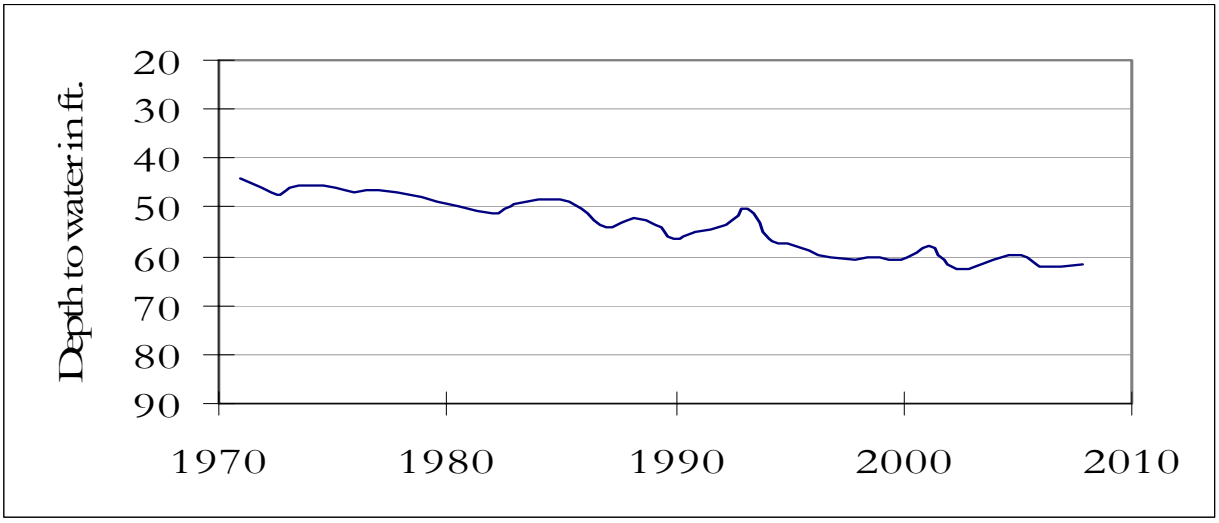
The TWDB has taken this recorder offline and is in the process of installing a new recorder in Atascosa County.

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 59-24-702
Grimes County



This water level observation well, located 13 miles north of Anderson, at an elevation of 260 feet ASL, was completed in the Yegua Jackson Aquifer. The aquifer is mainly used for domestic and livestock purposes and no significant water level declines have occurred.

June, 2008

Water level measurements were available for six out of the seven key monitoring wells. Water levels declined at all reporting monitoring wells, ranging from 0.98 feet in the Harris Co. Gulf Coast well to 12.80 feet in the Bexar Co. Edwards well. The J-17 well in San Antonio recorded a water level of 73.20 feet below land surface, 12.80 feet below last month's measurement. This water level is 2.2 feet below the Stage 1 critical management level. The Edwards Aquifer Authority declared Stage 1 drought restrictions for the San Antonio segment of the Edwards Aquifer on June 23.

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