

Texas Water Development Board

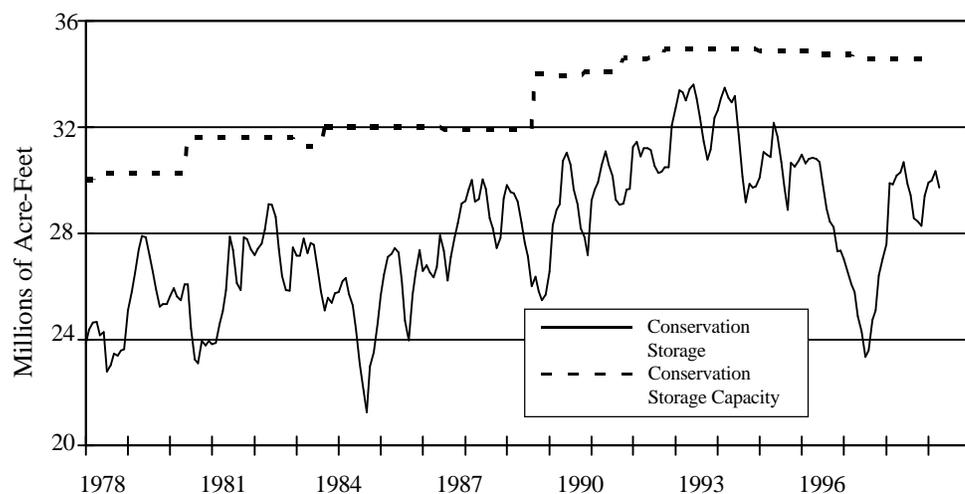
WATER Conditions

RESERVOIR STORAGE

Near the end of April, the 77 reservoirs monitored for this report held 29,728,460 acre-feet in conservation storage. This was 86 percent of the conservation storage capacity of the State's major reservoirs. Compared to last month, storage has decreased 613,190 acre-feet. Compared to this month last year, storage has increased 43,046 acre-feet.

Of the monitored reservoirs, 26 held 100 percent or more of their conservation storage capacities near the end of April. Lakes Sulphur Springs, Eagle Mountain, Graham, Granbury, Pat Cleburne, Limestone, Cypress Springs, Bob Sandlin, Tyler, Cedar Creek, Livingston, Medina, and Houston were full and spilling. An additional amount of water (acre-feet) was contained in the flood storage pool in each of the reservoirs as follows: Cooper, 4,480; Ray Roberts, 590; Lewisville, 28,220; Navarro, 210; Proctor, 3,330; Belton, 3,930; Stillhouse, 3,620; Georgetown, 120; Granger, 2,210; Wright Patman, 31,920; Lake O' the Pines, 3,550; Sam Rayburn, 18,330; and Travis, 480.

Conservation Storage Data for Selected Major Texas Reservoirs



Current data are based on elevation near end of month at 77 reservoirs that represent 98 percent of total conservation storage capacity in Texas reservoirs having a capacity of 5,000 acre-feet or more.

STREAMFLOW

Streamflow conditions across Texas ranged from below-normal to normal during the month of April. Thunderstorms threatened several times in the month but overall, there was very little rainfall across the State of Texas for April. The following is a summary of the measured flows throughout across the State.

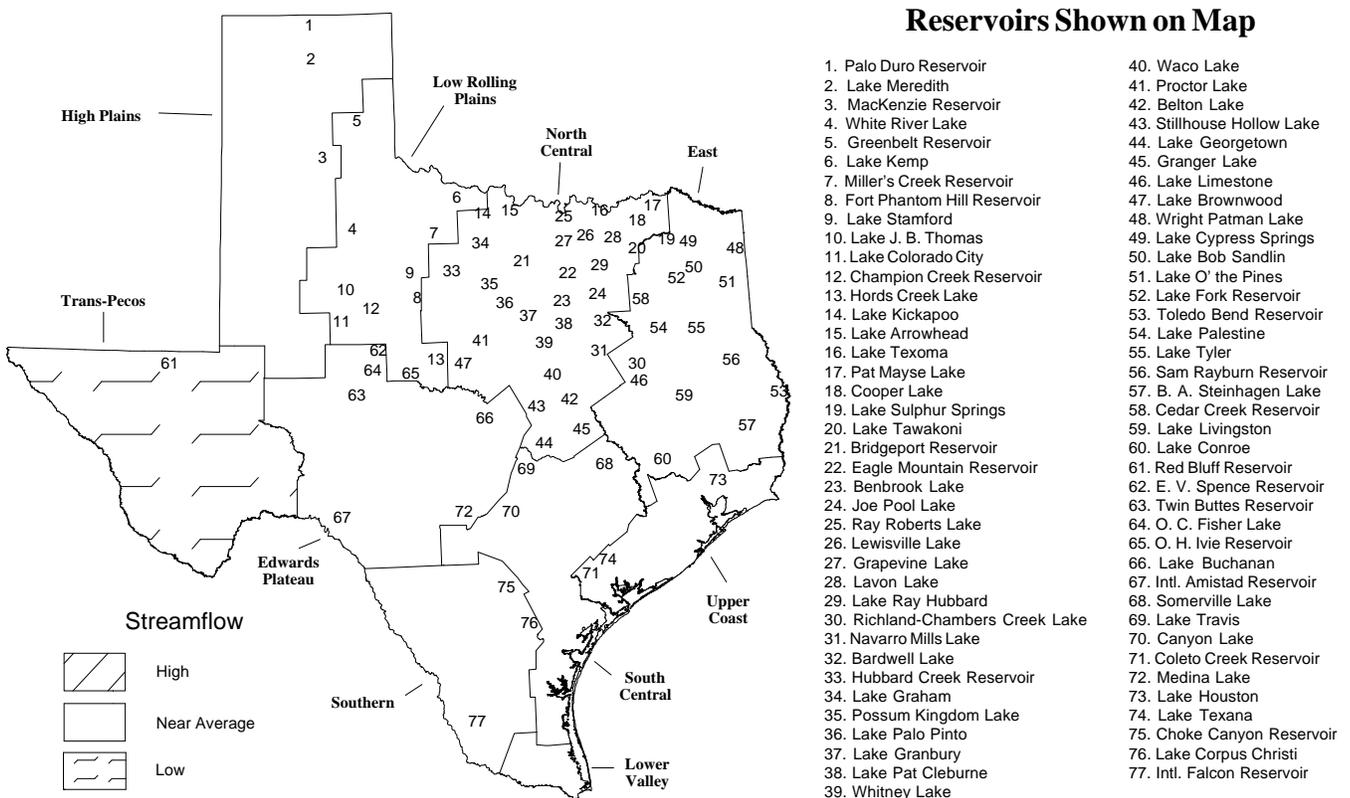
The High Plains, Low Rolling Plains, North Central, East, Edwards Plateau, South Central, Upper Coast, and Southern climatic regions reported normal streamflow conditions during the month. The 28 gages in these regions, compared to the monthly mean flow for April, averaged flow levels that are exceeded 50.4% of the time. The North Central climatic region's four gages reported a monthly flow average that was exceeded

36.2 % of the time. This was the wettest region during the month.

The Trans Pecos climatic region reported below normal flow conditions. The only gage reporting during this period, Pecos River near Girvin, Texas, reported an average flow that was exceeded 80.0% of the time in April.

For the Lower Valley climatic region, there are no streamflow gages that depict the regions overall climatic conditions because of the extensive irrigation system throughout the region. Therefore, rainfall is the only indication of the overall conditions in this area. For April, this area reported normal rainfall.

STREAMFLOW CONDITIONS FOR APRIL COMPARED WITH PAST RECORD



CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	No.:	Conservation: Storage Capacity (acre-feet)	Conservation Storage in Acre-Feet and as Percent of Conservation Storage Capacity					
			Map:	Late Apr 1998	Late Mar 1998	Late Apr 1997		

HIGH PLAINS

Palo Duro Reservoir	1	60,900	6,070	10	5,160	8	14,170	23
Lake Meredith (Texas)	2	500,000	383,770	77	389,930	78	368,210	74
Lake Meredith (Texas and Oklahoma)	(2)	(779,560)	(383,770)	(49)	(389,930)	(50)	(368,210)	(47)
MacKenzie Reservoir	3	46,250	9,100	20	9,230	20	8,950	19
White River Lake	4	31,850	11,900	37	12,480	39	12,380	39
TOTAL		639,000	410,840	64	416,800	65	403,710	63

LOW ROLLING PLAINS

Greenbelt Reservoir	5	58,200	29,020	50	29,200	50	29,200	50
Lake Kemp	6	319,600	268,480	84	291,920	91	264,500	83
Miller's Creek Reservoir	7	27,890	11,940	43	12,540	45	12,740	46
Fort Phantom Hill Reservoir	8	70,030	55,160	79	58,880	84	66,480	95
Lake Stamford	9	52,700	30,710	58	31,020	59	22,000	42
Lake J. B. Thomas	10	202,300	14,060	7	15,200	8	12,610	6
Lake Colorado City	11	30,800	17,970	58	18,750	61	18,500	60
Champion Creek Reservoir	12	41,600	19,740	47	20,170	48	21,970	53
Hords Creek Lake	13	8,600	6,250	73	6,630	77	7,850	91
TOTAL		811,720	453,330	56	484,310	60	455,850	56

NORTH CENTRAL

Lake Kickapoo	14	106,000	68,420	65	71,300	67	68,240	64
Lake Arrowhead	15	262,100	231,800	88	234,070	89	213,040	81
Lake Texoma	16	2,722,300	2,635,800	97	2,722,300	100	2,722,300	100
Pat Mayse Lake	17	124,500	122,300	98	124,500	100	124,500	100
Cooper Lake	18	273,000	273,000	100	273,000	100	273,000	100
Lake Sulphur Springs	19	17,710	17,710	100	17,710	100	17,710	100
Lake Tawakoni	20	936,200	935,900	99	936,200	100	936,200	100
Bridgeport Reservoir	21	374,830	372,700	99	374,830	100	374,830	100
Eagle Mountain Reservoir	22	178,380	178,380	100	178,380	100	178,380	100
Benbrook Lake	23	88,200	86,170	98	88,200	100	88,200	100
Joe Pool Lake	24	175,800	174,380	99	175,800	100	175,800	100
Ray Roberts Lake	25	798,760	798,760	100	798,760	100	798,760	100
Lewisville Lake	26	555,000	555,000	100	555,000	100	555,000	100
Grapevine Lake	27	187,700	182,830	97	187,700	100	187,700	100
Lavon Lake	28	443,800	438,510	99	443,800	100	443,800	100
Lake Ray Hubbard	29	490,000	486,300	99	489,700	99	488,790	99
Richland-Chambers Creek Lake	30	1,103,820	1,095,220	99	1,103,820	100	1,103,820	100
Navarro Mills Lake	31	55,810	55,810	100	55,810	100	55,810	100
Bardwell Lake	32	53,580	51,540	96	53,580	100	53,580	100
Hubbard Creek Reservoir	33	317,800	308,300	97	314,300	99	317,000	99
Lake Graham	34	45,000	45,000	100	45,000	100	45,000	100
Possum Kingdom Lake	35	551,820	536,000	97	551,820	100	537,240	97
Lake Palo Pinto	36	42,200	40,440	96	42,200	100	42,200	100
Lake Granbury	37	135,680	135,680	100	135,680	100	130,170	96
Lake Pat Cleburne	38	25,300	25,300	100	25,300	100	25,300	100
Whitney Lake	39	622,800	620,650	99	622,800	100	622,800	100
Waco Lake	40	144,550	142,710	99	144,550	100	144,550	100

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

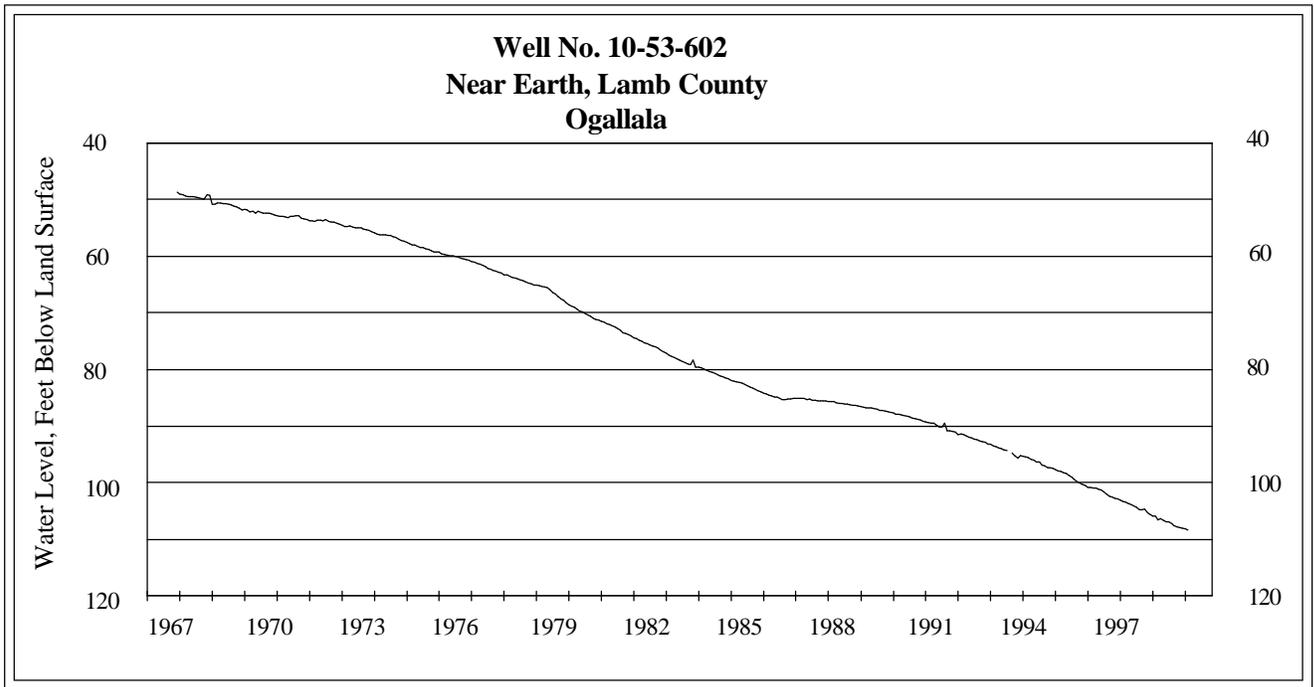
Name of Lake or Reservoir	No.:	Conservation: Storage Capacity	Conservation Storage in Acre-Feet and as Percent of Conservation Storage Capacity					
			Map:	(acre-feet)	Late Apr 1998	Late Mar 1998	Late Apr 1997	_
NORTH CENTRAL (continued)								
Proctor Lake	41	55,590	55,590	100	55,590	100	55,590	100
Belton Lake	42	434,500	434,500	100	434,500	100	434,500	100
Stillhouse Hollow Lake	43	226,060	226,060	100	226,060	100	226,060	100
Lake Georgetown	44	37,010	37,010	100	37,010	100	37,010	100
Granger Lake	45	54,280	54,280	100	54,280	100	54,280	100
Lake Limestone	46	215,750	215,750	100	215,750	100	215,750	100
Lake Brownwood	47	143,400	141,300	99	142,700	99	143,400	100
TOTAL		11,999,230	11,779,100	98	11,932,000	99	11,890,310	99
EAST								
Wright Patman Lake	48	142,700	142,700	100	142,700	100	142,700	100
Lake Cypress Springs	49	66,800	66,800	100	66,800	100	66,800	100
Lake Bob Sandlin	50	202,300	202,300	100	202,300	100	202,300	100
Lake O' the Pines	51	252,000	252,000	100	252,000	100	252,000	100
Lake Fork Reservoir	52	635,200	621,290	98	626,740	99	635,200	100
Toledo Bend Reservoir	53	4,472,900	4,240,000	95	4,380,000	98	4,472,900	100
Lake Palestine	54	411,300	408,800	99	411,300	100	411,300	100
Lake Tyler	55	73,700	73,700	100	73,700	100	73,700	100
Sam Rayburn Reservoir	56	2,876,300	2,876,300	100	2,876,300	100	2,876,300	100
B. A. Steinhagen Lake	57	94,200	83,880	89	85,520	91	85,270	91
Cedar Creek Reservoir	58	637,050	637,050	100	637,050	100	637,050	100
Lake Livingston	59	1,750,000	1,750,000	100	1,750,000	100	1,750,000	100
Lake Conroe	60	429,900	413,970	96	415,970	97	416,970	97
TOTAL		12,044,350	11,768,790	98	11,920,380	99	12,022,490	99
TRANS-PECOS								
Red Bluff Reservoir	61	307,000	82,330	27	98,740	32	73,050	24
TOTAL		307,000	82,330	27	98,740	32	73,050	24
EDWARDS PLATEAU								
E. V. Spence Reservoir	62	484,800	99,230	20	102,600	21	124,000	26
Twin Buttes Reservoir	63	177,800	42,460	24	46,000	26	71,940	40
O. C. Fisher Lake	64	119,200	15,020	13	15,900	13	20,020	17
O. H. Ivie Reservoir	65	554,340	489,460	88	513,060	93	7,710	1
Lake Buchanan	66	896980	847880	95	896980	100	871454	97
Amistad Reservoir (Texas)	67	1,771,030	826,920	47	856,110	48	906,370	51
Amistad Reservoir (Texas and Mexico)	(67)	(3,151,300)	(1,321,460)	(42)	(1,466,570)	(47)	(1,333,620)	(42)
TOTAL		4,004,150	2,320,970	58	2,430,650	61	2,001,494	50
SOUTH CENTRAL								
Somerville Lake	68	155,060	153,700	99	155,060	100	155,060	100
Lake Travis	69	1,144,100	1,144,100	100	1,144,100	100	1,144,100	100
Canyon Lake	70	385,600	380,700	99	384,420	99	385,600	100
Coletto Creek Reservoir	71	35,060	33,500	96	35,060	100	35,060	100
Medina Lake	72	254,000	254,000	100	254,000	100	109,900	43
TOTAL		1,973,820	1,966,000	99	1,972,640	99	1,829,720	93

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

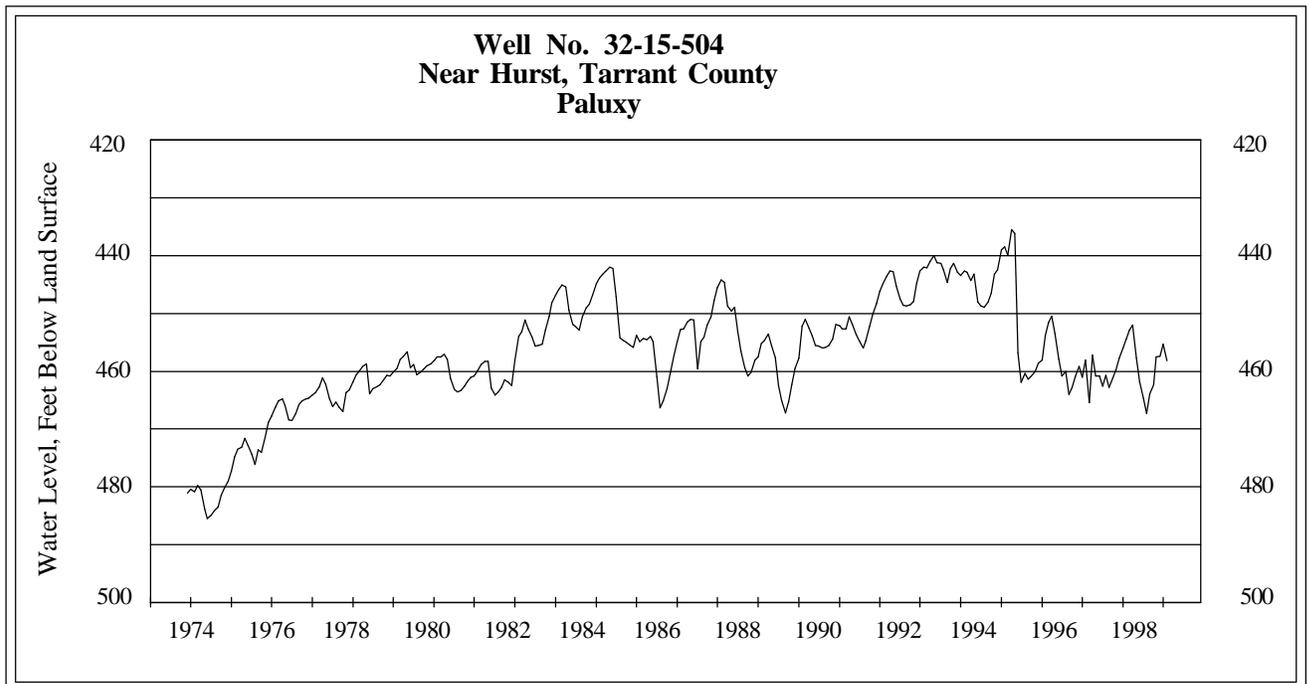
Name of Lake or Reservoir	No.:	Conservation: Storage Capacity (acre-feet)	Conservation Storage in Acre-Feet and as Percent of Conservation Storage Capacity					
			Late Apr 1998	Late Mar 1998	Late Apr 1997			
UPPER COAST								
Lake Houston	73	128,860	128,860	100	123,000	95	128,860	100
Lake Texana	74	157,900	149,300	95	157,810	99	157,810	99
TOTAL		286,760	278,160	97	280,810	98	286,670	99
SOUTHERN								
Choke Canyon Reservoir	75	695,260	268,030	39	278,860	40	169,310	24
Lake Corpus Christi	76	241,240	165,800	69	181,100	75	128,000	53
Falcon Reservoir (Texas)	77	1,555,120	235,110	15	345,360	22	424,810	27
Falcon Reservoir (Texas and Mexico)	(77)	(2,653,290)	(282,130)	(11)	(576,410)	(22)	(563,440)	(21)
TOTAL		2,491,620	668,940	27	805,320	32	722,120	29
STATE TOTAL		34,557,650	29,728,460	86	30,341,650	88	29,685,414	86

NOTES: Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of 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 so-called dead storage (in the bottom of the reservoir, below the invert of lowest outlet works and consequently not removable by gravity flow alone). Percentages are based on the conservation storage capacity of and the conservation storage in the reservoirs for date shown. Current data are based on elevations near end of month at 77 reservoirs that together represent 98 percent of the total conservation storage capacity of major Texas reservoirs (those with capacity of 5,000 acre-feet or more each). Figures in parentheses for Lake Meredith represent the total conservation storage excluding 58,014 acre-feet of dead storage and are not included in State total. Preliminary figures are shown for the United States' share of conservation storage in International Amistad and International Falcon Reservoirs; these estimates may be subject to revision on completion of international water accounting. Figures in parentheses show the total conservation storage for both Texas (United States' share) and Mexico and are not included in State total.

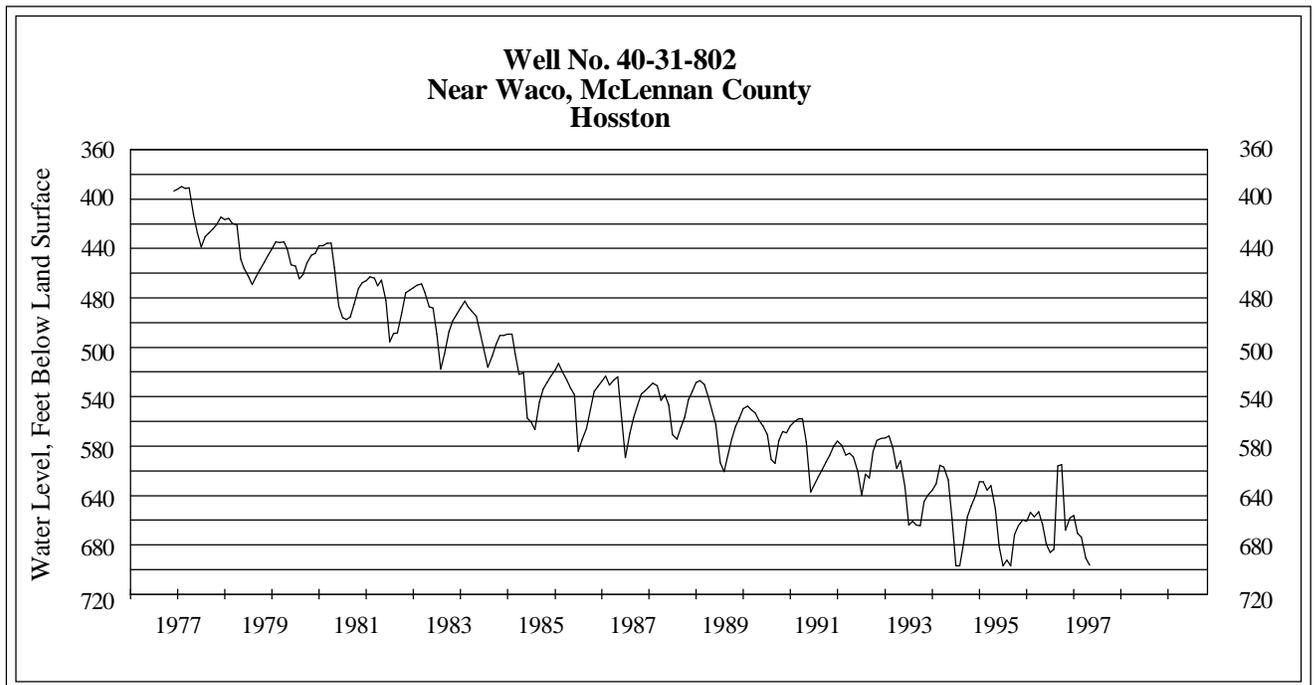
GROUND WATER LEVELS IN OBSERVATION WELLS



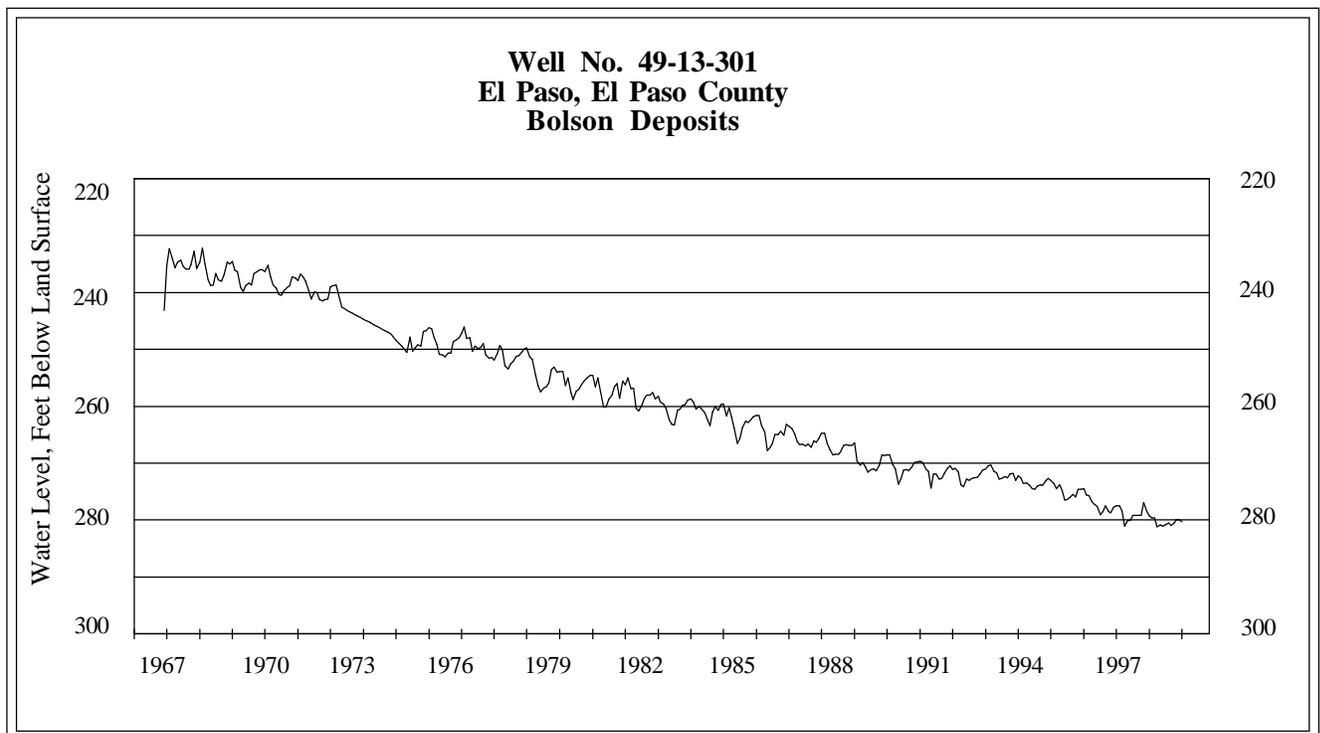
The April water-level measurement in this Ogallala aquifer well, elevation 3667 feet above sea level, was 108.31 feet below land surface. This was 0.11 of a foot below last month's measurement, 1.71 feet below last year's measurement, and 80.16 feet below the initial measurement recorded in 1950.



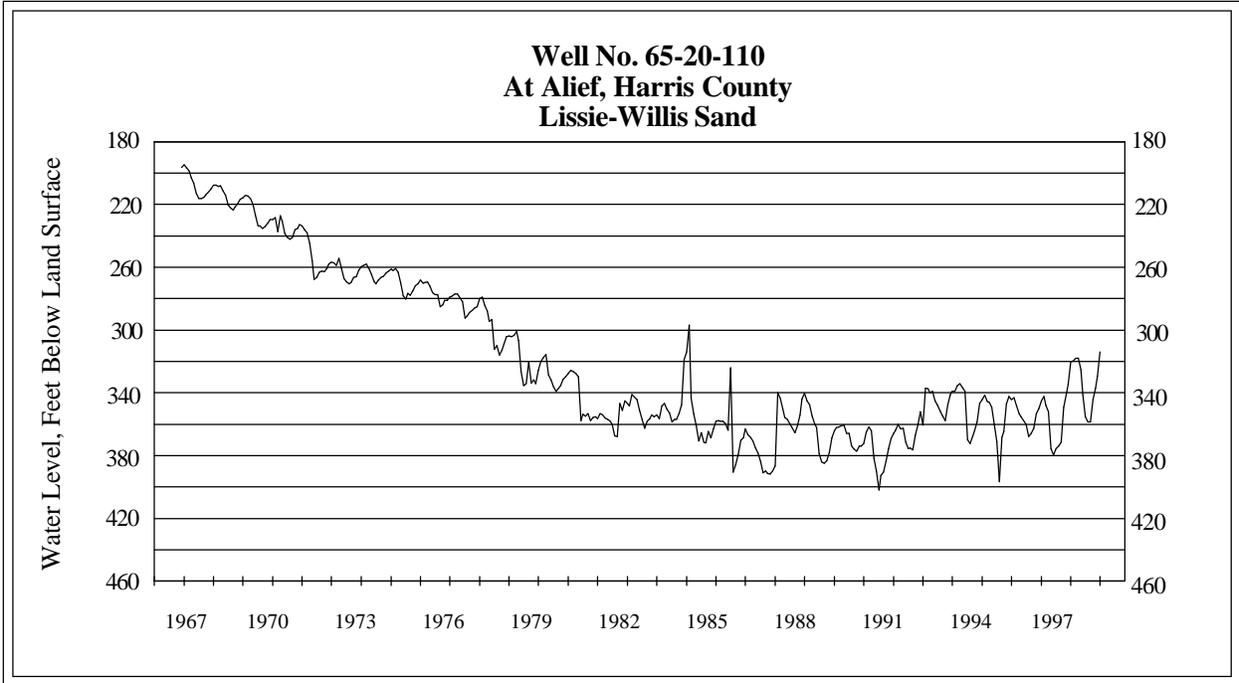
The April water-level measurement in this Paluxy aquifer well, elevation 535 feet above sea level, was 458.19 feet below land surface. This measurement was 2.90 feet below last month's measurement, 5.28 feet below last year's measurement, and 64.80 feet below the initial measurement recorded in 1953.



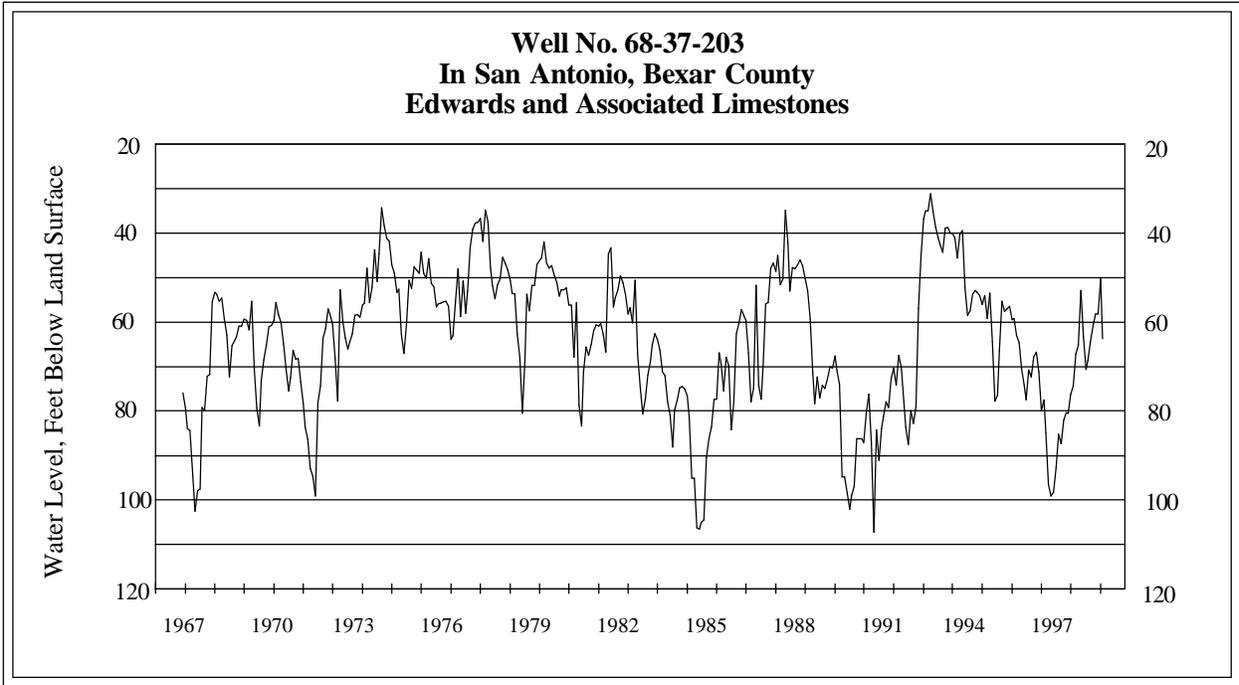
Current water-level measurements are unavailable from this Hosston Formation well due to cave-in problems. The well is scheduled to be repaired in 1998.



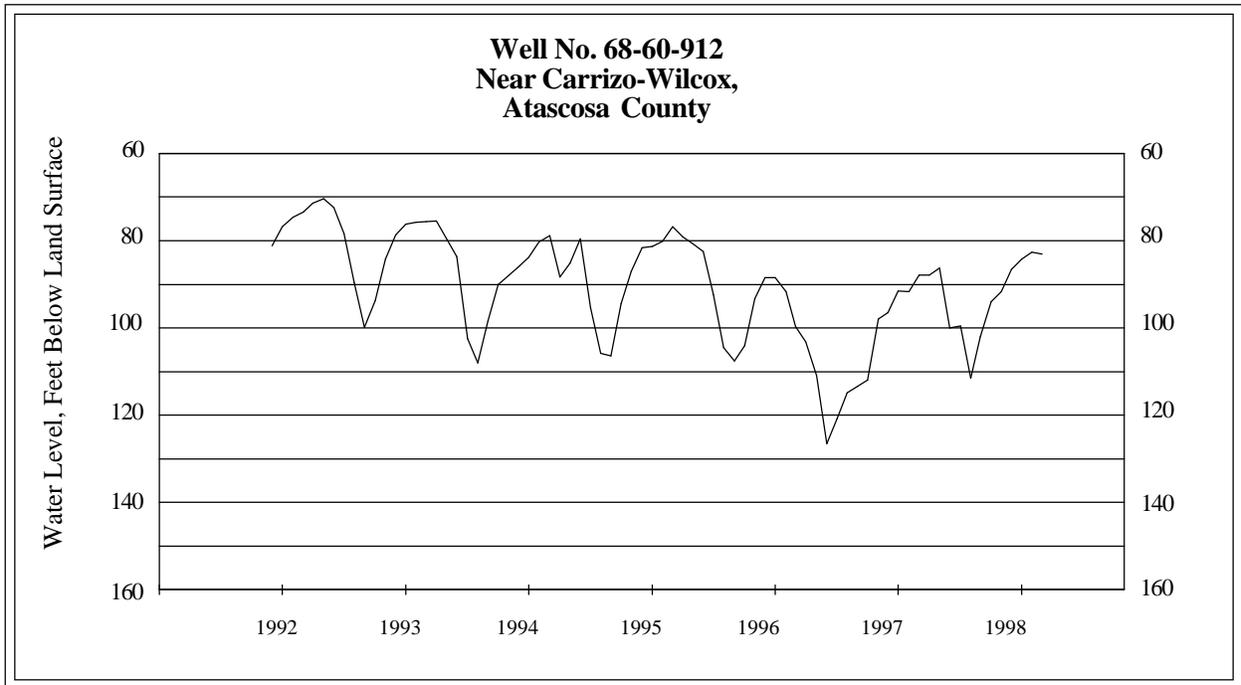
The April water-level measurement in this Bolson Deposits aquifer well, elevation 3882 feet above sea level, was 280.31 feet below land surface. This was 0.30 of a foot below last month's measurement, 0.69 of a foot below last year's measurement, and 45.55 feet below the initial measurement recorded in 1964.



The April water-level measurement in this Lissie Willis Sand aquifer well, elevation 83 feet above sea level, was not available.



The April water-level measurement in this Edwards aquifer well, elevation 731 feet above sea level, was 63.70 feet below land surface. This was 13.39 feet below last month's measurement, 3.50 feet above last year's measurement, and 4.08 feet below the initial measurement recorded in 1962.



The April water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 83.14 feet below land surface. This was 0.43 of a foot below last month's measurement, 4.77 feet above last year's measurement, and 1.89 feet below the initial measurement recorded in 1992.

