

Texas Water Development Board

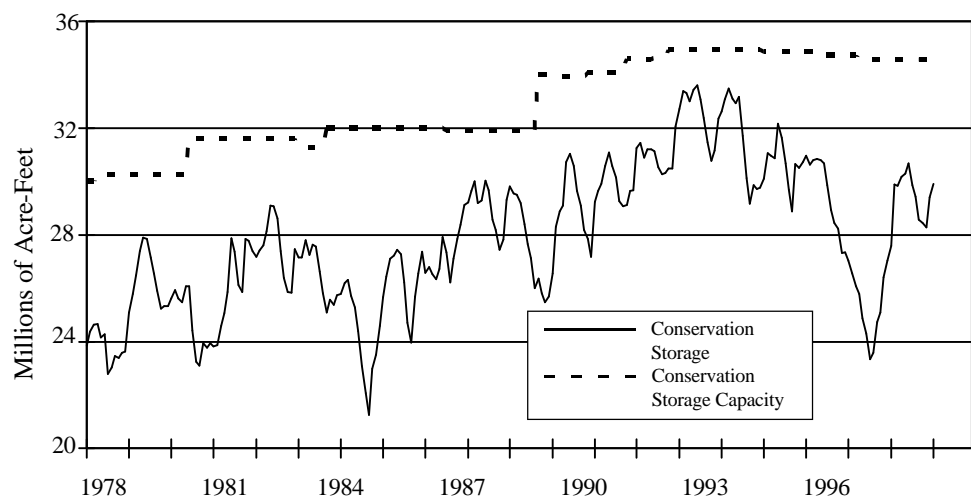
WATER Conditions

RESERVOIR STORAGE

Near the end of February, the 77 reservoirs monitored for this report held 29,994,040 acre-feet in conservation storage. This was 87 percent of the conservation storage capacity of the State's major reservoirs. Compared to last month, storage has increased 81,780 acre-feet. Compared to this month last year, storage has increased 117,470 acre-feet.

Of the monitored reservoirs, 41 held 100 percent or more of their conservation storage capacities near the end of February. Lakes Sulphur Springs, Tawakoni, Eagle Mountain, Ray Hubbard, Richland-Chambers, Graham, Granbury, Pat Cleburne, Limestone, Cypress Springs, Bob Sandlin, Toledo Bend, Palestine, Tyler, Cedar Creek, Livingston, Coletto Creek, Houston, and Texana 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: Pat Mayse, 10,100; Cooper, 19,690; Benbrook, 12,300; Joe Pool, 11,280; Ray Roberts, 18,070; Lewisville, 67,480; Grapevine, 9,840; Lavon, 47,080; Navarro, 4,170; Bardwell, 140; Whitney, 10,630; Waco, 40,480; Proctor, 90; Belton, 32,280; Stillhouse, 21,230; Georgetown, 5,200; Granger, 4,680; Wright Patman, 276,180; Lake O' the Pines, 15,350; Sam Rayburn, 578,520; Somerville, 35,000, and Travis, 2,010.

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.

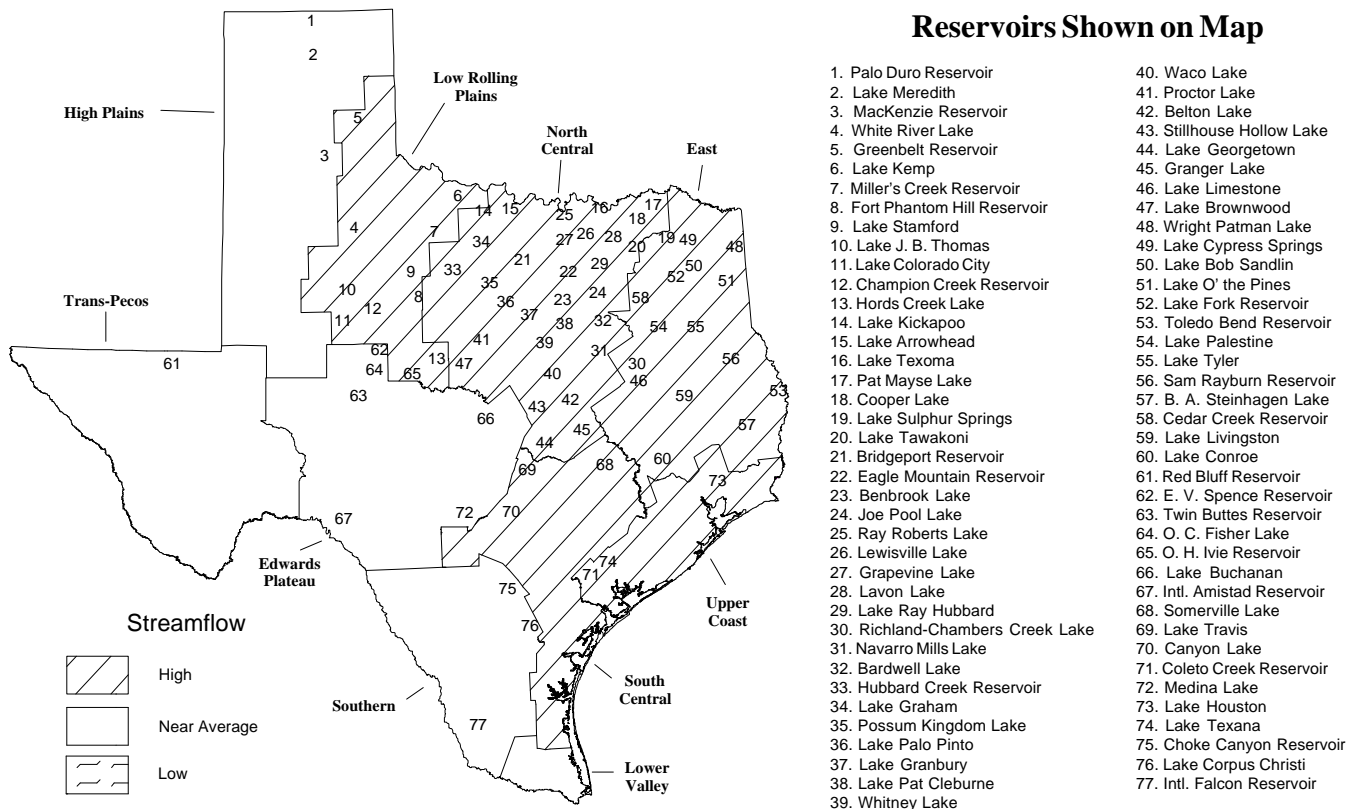
STREAMFLOW

Streamflow conditions across Texas ranged from near-normal to above-normal during the month of February. North-central Texas received extensive rainfall for February and the Wichita Falls area also recorded above normal rainfall during the month. Elsewhere across the State rainfall and runoff were normal for the month of February. The following is a summary of the measured flows at various index stations across the State.

The index station for the East Texas climatic division is located on the Neches River near Clifton. Streamflow past the gage was above-normal, averaging 440 cfs, or 942 percent of the monthly reference period median. This was 245 cfs above the station's near-normal flow level. Elsewhere across the State, the index station for the Edwards Plateau is located on the North Concho River near Carlsbad. Streamflow past the gage was near-normal, averaging 2.91 cfs, or 112 percent of the monthly reference period median. This was 1.42 cfs below the station's above-normal flow level. The index station for South-central Texas is located on the Guadalupe River near Spring Branch. Streamflow past the gage was above-normal, averaging 500 cfs, or 226 percent of the monthly reference period median. This was 12 cfs above the station's near-normal flow level.

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STREAMFLOW CONDITIONS FOR FEBRUARY COMPARED WITH PAST RECORD



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 Feb 1998 :	Late Jan 1998 :	Late Feb 1997	
HIGH PLAINS								
Palo Duro Reservoir	1	60,900	6,960	11	7,100	12	10,320	17
Lake Meredith (Texas)	2	500,000	383,320	77	384,440	77	362,540	73
Lake Meredith (Texas and Oklahoma)	(2)	(779,560)	(383,320)	(49)	(384,440)	(49)	(362,540)	(47)
MacKenzie Reservoir	3	46,250	8,430	18	8,580	19	7,500	16
White River Lake	4	31,850	12,480	39	12,670	40	7,500	24
TOTAL		639,000	411,190	64	412,790	65	387,860	61
LOW ROLLING PLAINS								
Greenbelt Reservoir	5	58,200	28,210	48	27,750	48	21,860	38
Lake Kemp	6	319,600	268,480	84	252,950	79	230,780	72
Miller's Creek Reservoir	7	27,890	11,550	41	11,550	41	12,130	43
Fort Phantom Hill Reservoir	8	70,030	57,860	83	58,880	84	62,060	89
Lake Stamford	9	52,700	29,800	57	29,800	57	21,530	41
Lake J. B. Thomas	10	202,300	15,920	8	16,280	8	10,680	5
Lake Colorado City	11	30,800	19,200	62	19,510	63	19,300	63
Champion Creek Reservoir	12	41,600	20,190	49	20,160	48	21,310	51
Hords Creek Lake	13	8,600	6,480	75	6,540	76	6,980	81
TOTAL		811,720	457,690	56	443,420	55	406,630	50
NORTH CENTRAL								
Lake Kickapoo	14	106,000	59,850	56	56,880	54	69,380	65
Lake Arrowhead	15	262,100	211,920	81	207,970	79	217,870	83
Lake Texoma	16	2,722,300	2,511,200	92	2,620,900	96	2,722,300	100
Pat Mayse Lake	17	124,500	124,500	100	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	936,200	100	936,200	100	936,200	100
Bridgeport Reservoir	21	374,830	349,400	93	343,600	92	374,830	100
Eagle Mountain Reservoir	22	178,380	178,380	100	178,380	100	178,380	100
Benbrook Lake	23	88,200	88,200	100	88,200	100	88,200	100
Joe Pool Lake	24	175,800	175,800	100	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	187,700	100	181,590	97	187,700	100
Lavon Lake	28	443,800	443,800	100	443,800	100	443,800	100
Lake Ray Hubbard	29	490,000	490,000	100	489,200	99	490,000	100
Richland-Chambers Creek Lake	30	1,103,820	1,103,820	100	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	53,580	100	53,580	100	53,580	100
Hubbard Creek Reservoir	33	317,800	296,400	93	296,100	93	316,600	99
Lake Graham	34	45,000	45,000	100	44,800	99	45,000	100
Possum Kingdom Lake	35	551,820	478,510	87	472,680	86	551,820	100
Lake Palo Pinto	36	42,200	35,260	84	34,860	83	42,200	100
Lake Granbury	37	135,680	135,680	100	135,680	100	135,680	100
Lake Pat Cleburne	38	25,300	25,300	100	25,300	100	25,300	100
Whitney Lake	39	622,800	622,800	100	577,810	93	622,800	100
Waco Lake	40	144,550	144,550	100	144,550	100	144,550	100

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

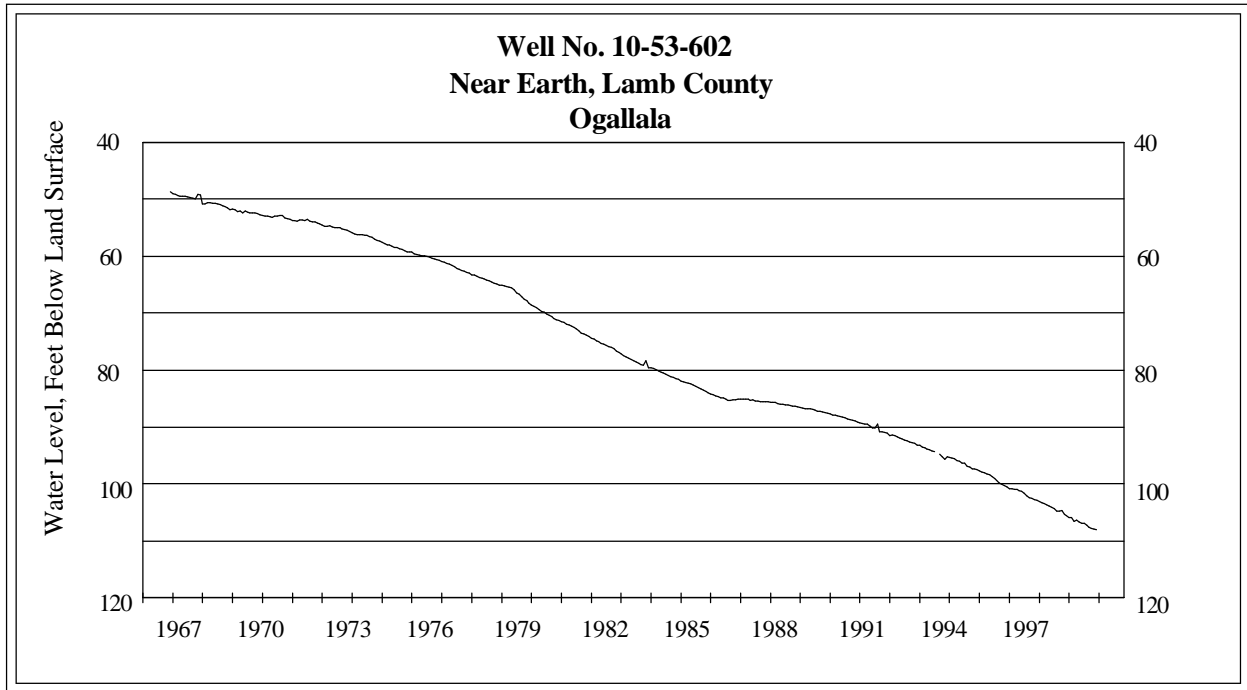
Name of Lake or Reservoir	: No.:	: Conservation: Storage Capacity (acre-feet) :	Conservation Storage in Acre-Feet and as Percent of Conservation Storage Capacity					
			: on :	: Late Feb 1998 :	: Late Jan 1998 :	: Late Feb 1997		
NORTH CENTRAL (continued)								
Proctor Lake	41	55,590	55,590	100	51,320	92	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	214,020	99	215,750	100
Lake Brownwood	47	143,400	126,600	88	125,200	87	143,400	100
TOTAL		11,999,230	11,547,920	96	11,578,870	96	11,917,180	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	632,200	99	623,200	98	635,200	100
Toledo Bend Reservoir	53	4,472,900	4,472,900	100	4,472,900	100	4,472,900	100
Lake Palestine	54	411,300	411,300	100	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	2,843,180	99
B. A. Steinhagen Lake	57	94,200	86,800	92	91,540	97	82,760	88
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	1,745,000	99	1,750,000	100
Lake Conroe	60	429,900	428,970	99	422,870	98	420,070	98
TOTAL		12,044,350	12,033,020	99	12,017,660	99	11,989,960	99
TRANS-PECOS								
Red Bluff Reservoir	61	307,000	92,490	30	96,050	31	79,850	26
TOTAL		307,000	92,490	30	96,050	31	79,850	26
EDWARDS PLATEAU								
E. V. Spence Reservoir	62	484,800	117,400	24	123,100	25	122,000	25
Twin Buttes Reservoir	63	177,800	45,400	26	45,040	25	74,950	42
O. C. Fisher Lake	64	119,200	15,880	13	16,050	13	19,600	16
O. H. Ivie Reservoir	65	554,340	511,960	92	509,360	92	452,860	82
Lake Buchanan	66	896,980	865,620	97	839,520	94	860,960	96
Amistad Reservoir (Texas)	67	1,771,030	867,460	49	882,860	50	898,270	51
Amistad Reservoir (Texas and Mexico)	(67)	(3,151,300)	(1,474,680)	(47)	(1,483,600)	(47)	(1,333,620)	(42)
TOTAL		4,004,150	2,423,720	61	2,415,930	60	2,428,640	61
SOUTH CENTRAL								
Somerville Lake	68	155,060	155,060	100	155,060	100	155,060	100
Lake Travis	69	1,144,100	1,144,100	100	1,141,340	99	1,144,100	100
Canyon Lake	70	385,600	383,500	99	381,610	99	385,600	100
Coletto Creek Reservoir	71	35,060	35,060	100	35,060	100	27,130	77
Medina Lake	72	254,000	226,770	89	220,350	87	74,220	29
TOTAL		1,973,820	1,944,490	99	1,933,420	98	1,786,110	90

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

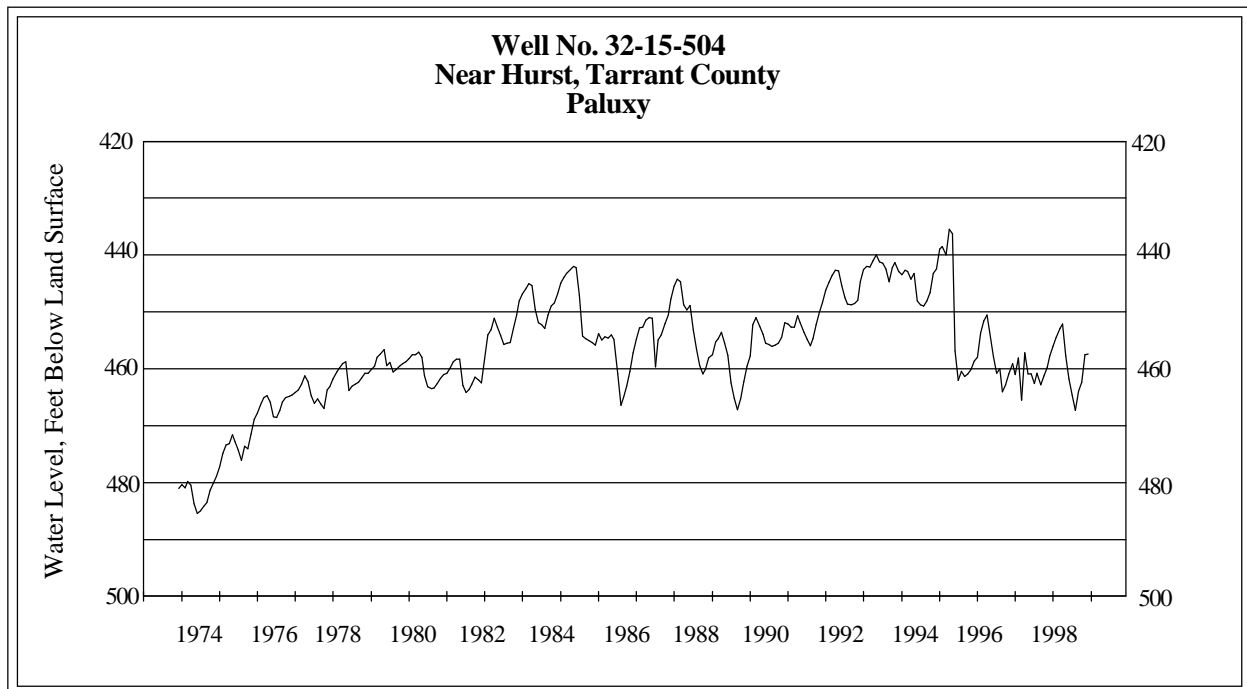
Name of Lake or Reservoir	No.:	Conservation: Storage Capacity (acre-feet)	Conservation Storage in Acre-Feet and as Percent of Conservation Storage Capacity					
			Late Feb 1998	Late Jan 1998	Late Feb 1997			
UPPER COAST								
Lake Houston	73	128,860	128,860	100	122,300	95	128,860	100
Lake Texana	74	157,900	157,900	100	157,360	99	157,900	100
TOTAL		286,760	286,760	100	279,660	98	286,760	100
SOUTHERN								
Choke Canyon Reservoir	75	695,260	275,560	40	272,100	39	167,880	24
Lake Corpus Christi	76	241,240	185,570	77	164,830	68	107,900	45
Falcon Reservoir (Texas)	77	1,555,120	335,630	22	297,530	19	317,800	20
Falcon Reservoir (Texas and Mexico)	(77)	(2,653,290)	(562,630)	(21)	(534,260)	(20)	(563,440)	(21)
TOTAL		2,491,620	796,760	32	734,460	29	593,580	24
STATE TOTAL		34,557,650	29,994,040	87	29,912,260	87	29,876,570	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.

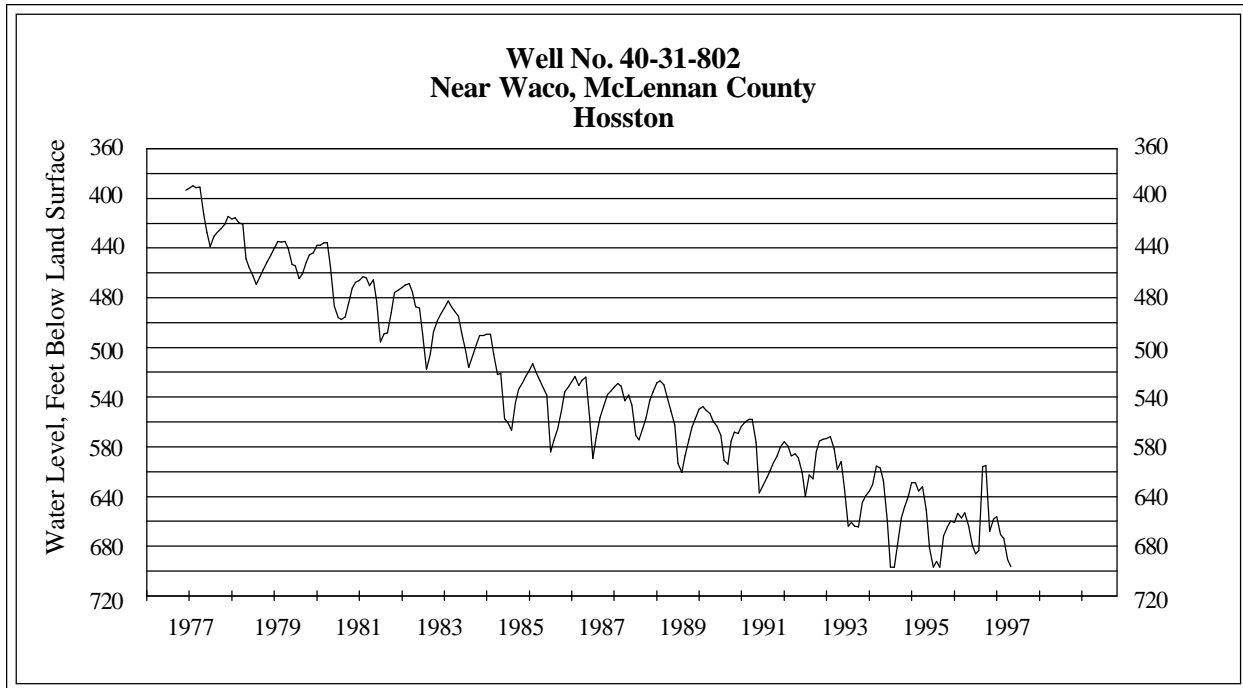
GROUND WATER LEVELS IN OBSERVATION WELLS



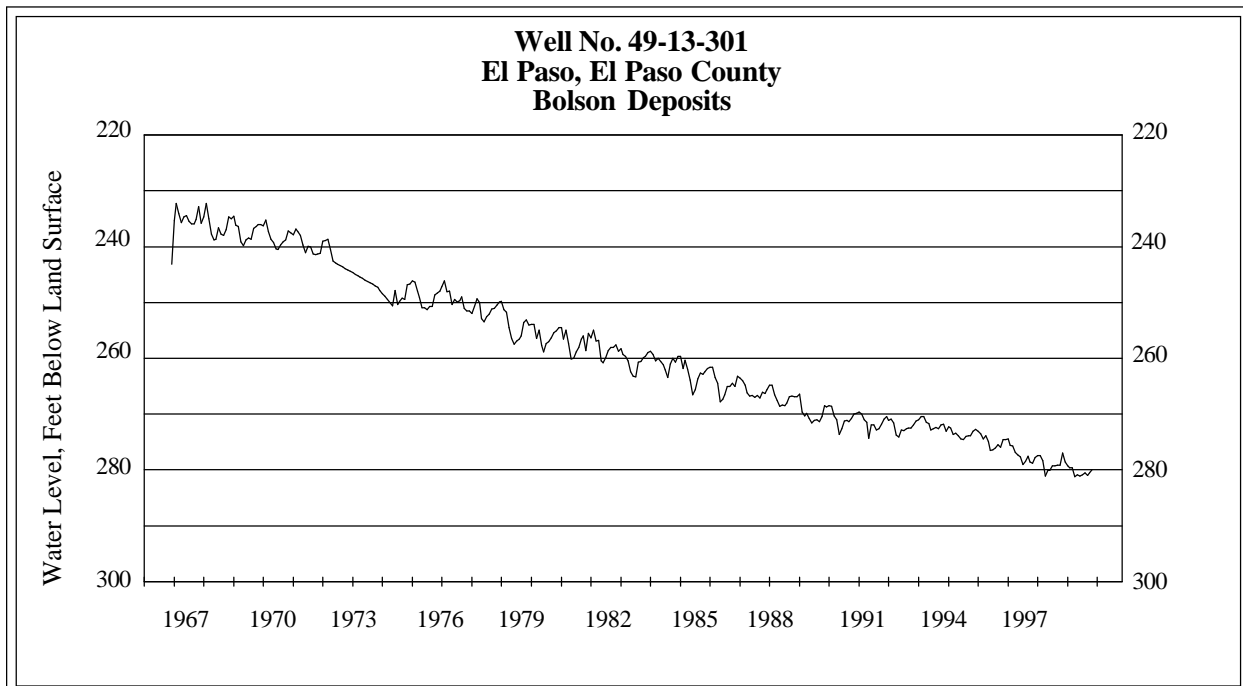
The February water-level measurement in this Ogallala aquifer well, elevation 3667 feet above sea level, was 108.11 feet below land surface. This was 0.10 of a foot below last month's measurement, 2.42 feet below last year's measurement, and 79.96 feet below the initial measurement recorded in 1950.



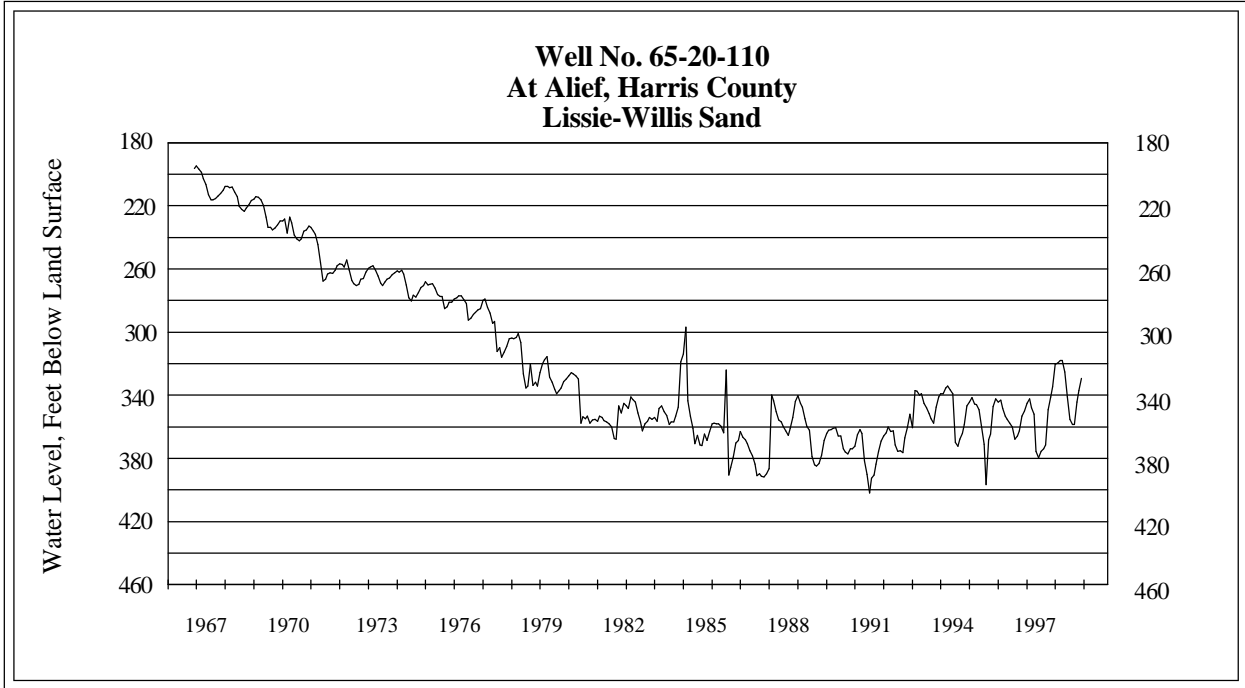
The February water-level measurement in this Paluxy aquifer well, elevation 535 feet above sea level, was 456.54 feet below land surface. This measurement was 0.82 of a foot above last month's measurement, 0.51 of a foot below last year's measurement, and 63.15 feet below the initial measurement recorded in 1953.



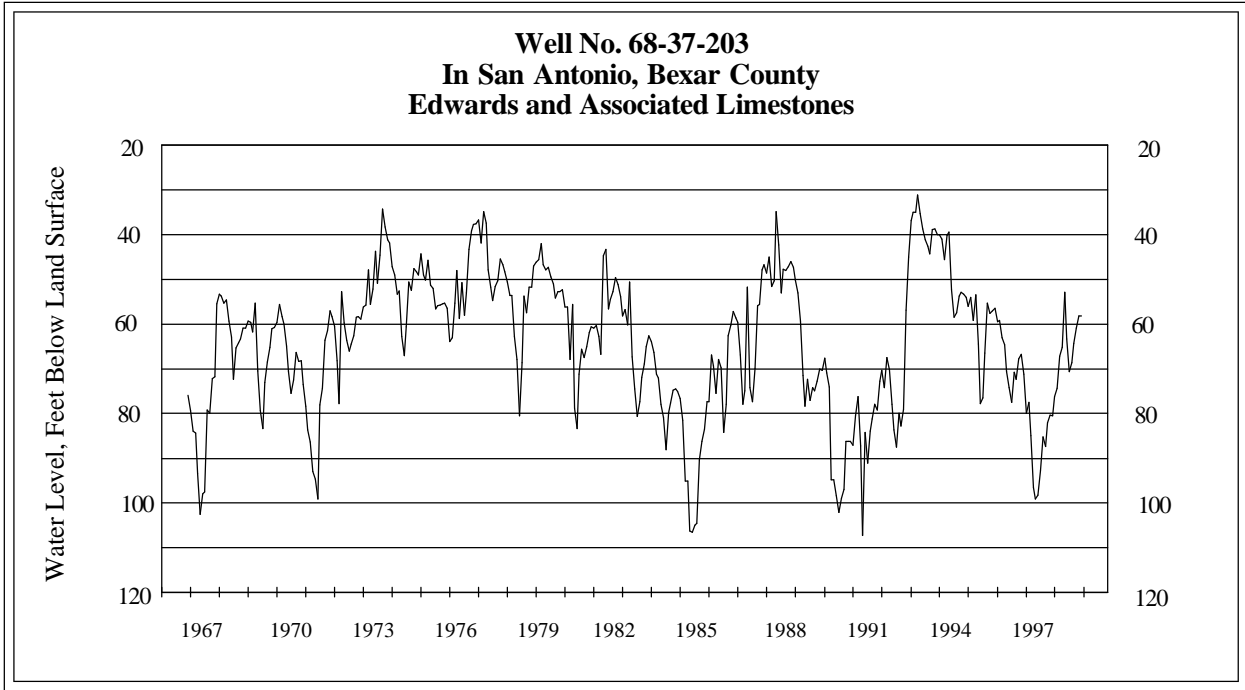
Current water-level measurements are unavailable from this Hosston Formation well due to cave-in problems. The well is scheduled to be repaired in 1998.



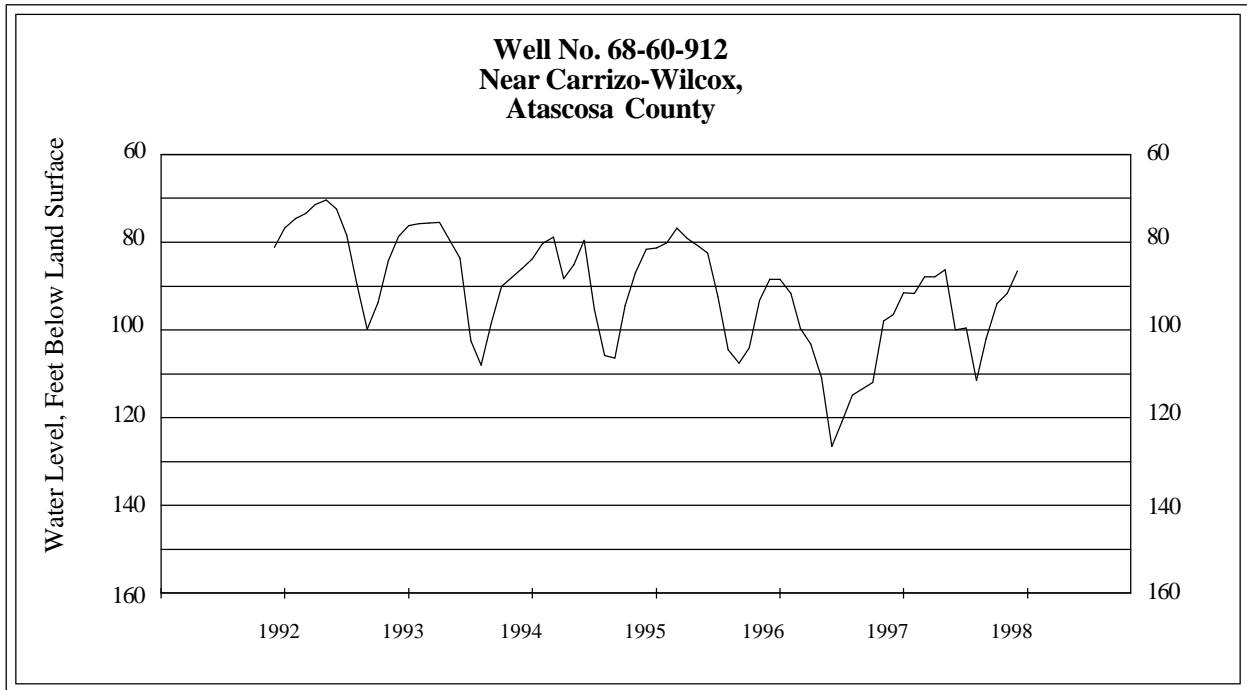
The February water-level measurement in this Bolson Deposits aquifer well, elevation 3882 feet above sea level, was 279.48 feet below land surface. This was 0.52 of a foot above last month's measurement, 0.94 of a foot below last year's measurement, and 47.58 feet below the initial measurement recorded in 1964.



The February water-level measurement in this Lissie Willis Sand aquifer well, elevation 83 feet above sea level, is no longer available, and will be replaced with an equivalent well next month.



The February water-level measurement in this Edwards aquifer well, elevation 731 feet above sea level, was 53.30 feet below land surface. This was 4.90 feet above last month's measurement, 23.00 feet above last year's measurement, and 6.32 feet above the initial measurement recorded in 1962.



The February water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 84.28 feet below land surface. This was 2.37 feet above last month's measurement, 7.32 feet above last year's measurement, and 3.03 feet below the initial measurement recorded in 1992.

