Texas Water Development Board



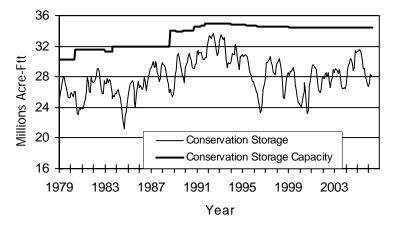


RESERVOIR STORAGE May 2006

Near the end of May, the 77 reservoirs monitored for this report held 28.05 million acre-feet in conservation storage, or 81 percent of the conservation storage capacity of the state's major reservoirs. Statewide total storage is below normal for this time of year. Storage decreased during the month by 143,760 acre-feet (-0.4% of conservation storage capacity). Compared to last year, storage decreased by 2.9 million acre-feet (-9%).

Storage was 90% of capacity in Upper Coast Region but below 90% in all other Regions, with the lowest in the High Plains Region (21%). Storage was at 100% in 5 reservoirs. During May, storage increased in 14 reservoirs but decreased in 59 reservoirs. Regionally, storage decreased in 5 out of 9 Regions, increased in 2 Regions, and remained unchanged in 2 Regions. Compared to this time last year, the storage decreased in all except Low Rolling Plains Region where storage increased by 1%. The sharpest decrease was in the South Central Region (-23%).

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

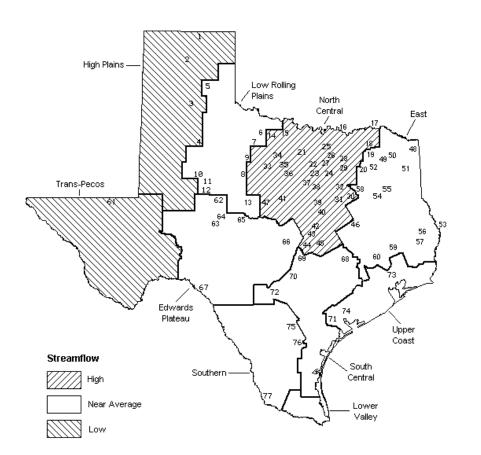


Current data are based on elevation near end of month at 77 reservoirs that represent 98 percent of total conservation storage capacity in Texas reservoirs having a capacity of 5,000 acre-feet or more.

STREAMFLOW

Of 29 reporting index stations in May, computed 30-day mean flows were high (5% - 30%) at 6 stations, low (70% - 95%) at 8 stations, very low (>95%) at 1 station, and near normal (30% - 70% exceedance) at the remaining 14 stations. Compared to April, flows have increased at 14 index stations and decreased at 15 stations.

On a regional basis, flows in May were high in North Central Region, low in the High Plains and Trans-Pecos Regions, but normal in all other Regions. Streamflow in the Lower Valley Region is not monitored.



MAY STREAMFLOW CONDITIONS

Reservoirs Shown on Map

1. Palo Duro Reservoir		Waco Lake
2. Lake Meredith		Proctor Lake
MacKenzie Reservoir		Belton Lake
White River Lake	43.	Stillhouse Hollow Lake
Greenbelt Reservoir	44.	Lake Georgetown
6. Lake Kemp	45.	Granger Lake
Miller's Creek Reservoir	46.	Lake Limestone
Fort Phantom Hill Reservoir	47.	Lake Brownwood
9. Lake Stamford	48.	Wright Patman Lake
10. Lake J. B. Thomas	49.	Lake Cypress Springs
11. Lake Colorado City	50.	Lake Bob Sandlin
12. Champion Creek Reservoir	51.	Lake O' the Pines
13. Hords Creek Lake	52.	Lake Fork Reservoir
14. Lake Kickapoo	53.	Toledo Bend Reservoir
15. Lake Arrowhead	54.	Lake Palestine
16. Lake Texoma	55.	Lake Tyler
17. Pat Mayse Lake		Sam Rayburn Reservoir
18. Cooper Lake		B. A. Steinhagen Lake
19. Lake Sulphur Springs	58.	Cedar Creek Reservoir
20. Lake Tawakoni	59.	Lake Livingston
21. Bridgeport Reservoir		Lake Conroe
22. Eagle Mountain Reservoir	61.	Red Bluff Reservoir
23. Benbrook Lake		E. V. Spence Reservoir
24. Joe Pool Lake		Twin Buttes Reservoir
25. Ray Roberts Lake	64.	O. C. Fisher Lake
26. Lewisville Lake	65.	O. H. Ivie Reservoir
27. Grapevine Lake	66.	Lake Buchanan
28. Lavon Lake	67.	Intl. Amistad Reservoir
29. Lake Ray Hubbard	68.	Somerville Lake
30. Richland-Chambers Creek Lake	69.	Lake Travis
31. Navarro Mills Lake		Canyon Lake
32. Bardwell Lake	71.	Coleto Creek Reservoir
33. Hubbard Creek Reservoir		Medina Lake
34. Lake Graham	73.	Lake Houston
35. Possum Kingdom Lake	74.	Lake Texana
36. Lake Palo Pinto		Choke Canyon Reservoir
37. Lake Granbury		Lake Corpus Christi
38. Lake Pat Cleburne		Intl. Falcon Reservoir
39. Whitney Lake		
,		

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

	1	· _ · · ·							
Name of Lake	No.	Conservation	Conservati	on	Change sind		Change since		
or Reservoir	on	Storage Capacity	Storage	0006	Late April	L	Late May		
	Map	(acre-feet)	Late May. 2		2006 (acre-feet)	(%)	2005 (acre-feet)	(%)	
			(acre-feet)	(%)	(acre-reer)	(%)	(acre-reet)	(%)	
Dele Dune Deservation	-	-	I PLAINS	2	200	~	2 210	4	
Palo Duro Reservoir Lake Meredith (Texas)	1	60,900 500,000	1,210 121,690	2 24	-200 -7,580	0 -2	-2,310 -47,440	-4 -9	
Lake Meredith	2	500,000	121,090	24	-7,580	-2	-47,440	-9	
(Texas and Oklahoma)	(2)	779,560	121,690	16	-7,580	-1	-47,440	-6	
MacKenzie Reservoir	3		9,120	20	-130	0	-960	-2	
White River Lake	4		4,570	14	-370	-1	-4,620	-15	
TOTAL		639,000	136,590	21	-8,280	-1	-55,330	-9	
Greenbelt Reservoir	-		LING PLAINS	25	500	-	3 500	~	
Lake Kemp	5	58,200 319,600	20,360 249,300	35 78	-560 -6,080	-1 -2	-3,590 14,320	-6 4	
Miller's Creek Reservoir	0 7	27,890	249,300	87	-8,080 80	-2	4,150	15	
Fort Phantom Hill Reservoir	, 8	70,030	54,650	78	9,170	13	-6,960	-10	
Lake Stamford	9	52,700	47,030	89	2,380	5	14,460	27	
Lake J. B. Thomas	10	202,300	46,660	23	-3,520	-2	-7,910	-4	
Lake Colorado City	11	30,800	26,750	87	-300	-1	-2,870	-9	
Champion Creek Reservoir	12	41,600	6,230	15	290	1	1,260	3	
Hords Creek Lake	13	8,600	6,080	71	-130	-2	-1,970	-23	
TOTAL		811,720	481,430	59	1,330	0	10,890	1	
		NODW							
Talas Trialassas	14		I CENTRAL		0.000	•	18 000	10	
Lake Kickapoo	14	106,000	84,400	80	-2,360	-2	17,900	17	
Lake Arrowhead	15	262,100	213,320	81	-2,560	-1	25,780	10	
Lake Texoma Pat Mayse Lake	16 17	2,722,300 124,500	2,656,410 96,250	98 77	142,480 -2,290	5 -2	433,510	16 -17	
Cooper Lake	18	273,000	164,880	60	-15,550	-6	-21,620 -96,750	-35	
Lake Sulphur Springs	19	17,710	17,220	97	-490	-3	370	2	
Lake Tawakoni	20	936,200	679,100	73	-16,500	-2	-158,700	-17	
Bridgeport Reservoir	21	374,830	262,600	70	20,400	5	-80,500	-21	
Eagle Mountain Reservoir	22	178,380	144,400	81	-1,600	-1	-25,900	-15	
Benbrook Lake	23	88,200	76,710	87	2,540	3	-6,510	-7	
Joe Pool Lake	24	175,800	175,800	100	0	0	0	0	
Ray Roberts Lake	25	798,760	719,010	90	810	0	-75,860	-9	
Lewisville Lake	26	555,000	457,610	82	-9,930	-2	-97,390	-18	
Grapevine Lake	27	187,700	143,340	76	250	0	-35,610	-19	
Lavon Lake	28	443,800	285,130	64	-15,460	-3	-158,670	-36	
Lake Ray Hubbard	29	413,420	398,100	96	-13,000	-3	-15,320	-4	
Richland-Chambers Creek Lake	30	1,103,820	913,100	83	-26,500	-2	-190,720	-17	
Navarro Mills Lake	31	55,810	35,370	63	-2,140	-4	-20,440	-37	
Bardwell Lake	32		46,220	86	-1,050	-2	-800	-1	
Hubbard Creek Reservoir Lake Graham	33		184,490	58	4,880	2	1,670	1	
Possum Kingdom Lake	34 35	45,000 551,820	43,550	97	2,250	5 8	3,890 50,020	9 9	
Lake Palo Pinto	36	27,650	528,620 20,180	96 73	42,280 5,250	19	-5,100	-18	
Lake Granbury	37	135,680	133,060	98	230	0	-440	0	
Lake Pat Cleburne	38	25,300	24,810	98	-370	-1	-490	-2	
Whitney Lake	39	622,800	573,100	92	37,830	6	-25,790	-4	
Waco Lake	40	144,500	144,500	100	0	0	0	0	
Proctor Lake	41		42,830	77	7,030	13	-12,360	-22	
Belton Lake	42		411,660	95	8,980	2	-22,840	-5	
Stillhouse Hollow Lake	43		225,680	100	-380	0	-380	0	
Lake Georgetown	44		25,060	68	2,190	6	-11,950	-32	
Granger Lake	45	54,280	52,810	97	-1,470	-3	-1,470	-3	
Lake Limestone	46	215,750	211,660	98	-1,840	-1	-400	0	
Lake Brownwood	47	143,400	119,740	84	3,040	2	-17,080	-12	
TOTAL		11,908,050	10,310,720	87	166,950	1	-549,950	-5	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

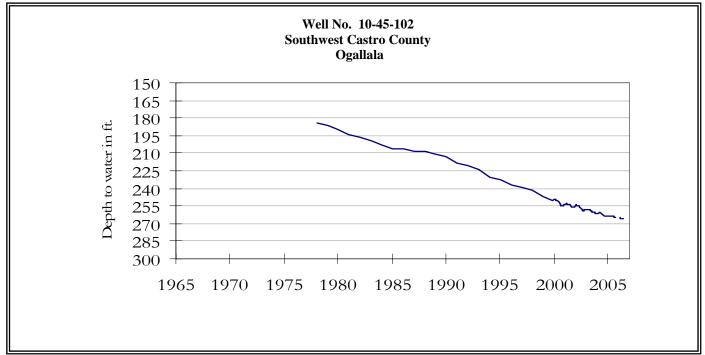
Name of Labo	No	Congorration	Concorret		Change size	10	Charge st-		
Name of Lake	No.	Conservation	Conservati	on	Change sind		Change since		
or Reservoir	on Map	Storage Capacity	Storage Late May. 2	006	Late April 2006	L	Late May 2005		
	мар	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)		(%)	
		((()	(,	()	(()	
Weight Detwork Take	4.0		EAST	100	0	•	0	0	
Wright Patman Lake	48	142,700	142,700	100	0	0	0	0	
Lake Cypress Springs Lake Bob Sandlin	49	66,800	60,450	90 70	-1,630	-2 -2	-6,090	-9 10	
Lake Bob Sandlin Lake O' the Pines	50 51	202,300 252,000	159,300	79 83	-3,700	-2 -2	-37,900	-19 -9	
Lake Fork Reservoir	51	-	209,020 607,600	96	-5,790 -4,900	-2	-22,910 -27,600	-4	
Toledo Bend Reservoir	53	-	3,795,000	85	-82,000	-2	-270,000	-6	
Lake Palestine	54		366,460	89	-2,890	-1	-40,070	-10	
Lake Tyler	55	73,700	60,740	82	-2,770	-4	-12,960	-18	
Sam Rayburn Reservoir	56		2,748,350	96	-14,570	-1	-100,890	-4	
B. A. Steinhagen Lake	57	94,200	21,370	23	-53,410		-64,190	-68	
Cedar Creek Reservoir	58		566,800	89	-15,600	-2	-65,400	-10	
Lake Livingston	59	1,750,000	1,540,000	88	69,000	4	-210,000	-12	
Lake Conroe	60		351,000	82	-1,100	0	-58,200	-14	
TOTAL		12,044,350	10,628,790	88	-119,360	-1	-916,210	-8	
		_	IS-PECOS		4 - 000	-	18 000	-	
Red Bluff Reservoir	61	-	107,300	35	-15,280	-5	-17,880	-6	
TOTAL		307,000	107,300	35	-15,280	-5	-17,880	-6	
		EDWARD	S PLATEAU						
E. V. Spence Reservoir	62	488,760	84,980	17	-2,410	0	11,480	2	
Twin Buttes Reservoir	63	177,800	50,100	28	-4,490	-3	8,480	5	
O.C. Fisher Lake	64	119,200	11,710	10	-780	-1	4,860	4	
O. H. Ivie Reservoir	65	554,340	274,600	50	-7,600	-1	-46,200	-8	
Lake Buchanan	66	896,980	718,360	80	5,850	1	-158,860	-18	
Amistad Reservoir (Texas)	67	1,771,030	2,014,000	114	-100,000	-6	-464,000	-26	
Amistad Reservoir									
(Texas and Mexico)	(67)	3,151,300	2,515,000	80	-85,000	-3	-338,000	-11	
TOTAL		4,008,110	3,153,750	79	-109,430	-3	-644,240	-16	
		SOUTH	I CENTRAL						
Somerville Lake	68	155,060	131,080	85	-820	-1	-23,980	-15	
Lake Travis	69	1,144,100	865,200	76	7,500	1	-278,900	-24	
Canyon Lake	70		351,430	91	1,090	0	-34,170	-9	
Coleto Creek Reservoir	71	35,060	23,110	66	340	1	-8,330	-24	
Medina Lake	72	254,000	153,600	60	-9,300	-4	-100,400	-40	
TOTAL		1,973,820	1,524,420	77	-1,190	0	-445,780	-23	
		IIDDE	чр. СОХСТ						
Lake Houston	73		IR COAST	100	^	•	0	•	
			128,860	100	0	0	0	0	
Lake Texana	74	-	129,940	82	12,790 12,790	8 4	-25,700	-16	
TOTAL		286,760	258,800	90	12,790	4	-25,700	-9	
		SO	UTHERN						
Choke Canyon Reservoir	75	695,260	578,000	83	-11,000	-2	-110,000	-16	
Lake Corpus Christi	76	241,240	92,510	38	-11,290	-5		-62	
Falcon Reservoir (Texas) Falcon Reservoir	77	1,555,120	775,000	50	-49,000	-3	-32,000	-2	
(Texas and Mexico)	(77)	2,653,290	1 100 000	11	-192,000	-7	-142,000	-5	
(Texas and Mexico) TOTAL	(11)	2,653,290	1,100,000 1,445,510	41 58	-71,290	- 7		-5 -12	
101 m		2, 191,020	1,115,510	50	/1,290	-0	250,090	12	
STATE TOTAL		34,470,430	28,047,310	81	-143,760	0	-2,934,890	-9	
-									

Note:

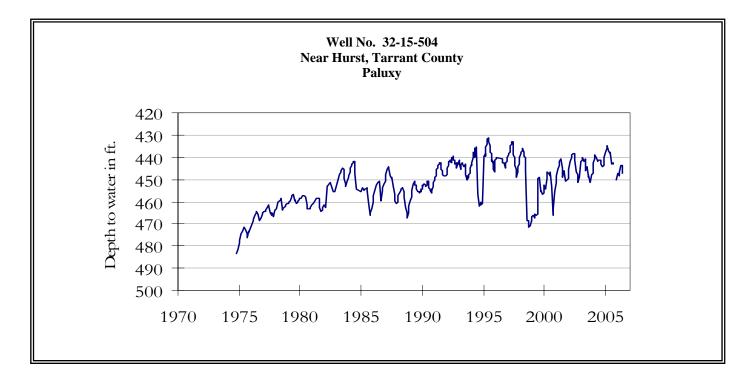
Conservation storage capacity is the space available to store water above the level of invert of lowest outlet works and below the level of top of conservation pool or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included 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.) Percentage of conservation storage is based on the conservation storage capacity of the reservoir and the conservation storage in the reservoir for date shown. Percent change is given by % Change = 100 * (current conservation storage - past conservation storage)/conservation storage capacity.

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). Preliminary figures are shown for the Texas' share of conservation storage in all reservoirs.

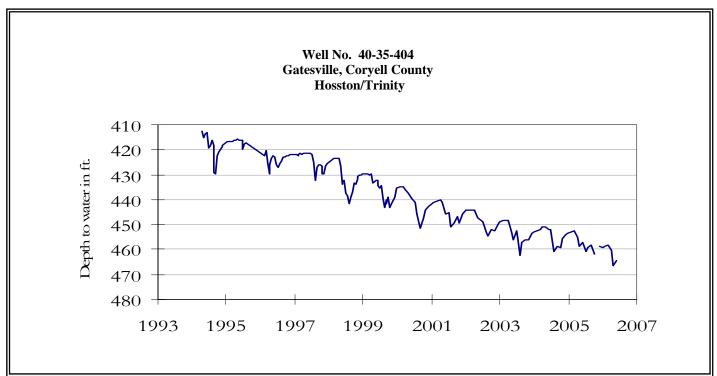
MAY GROUND WATER LEVELS IN OBSERVATION WELLS



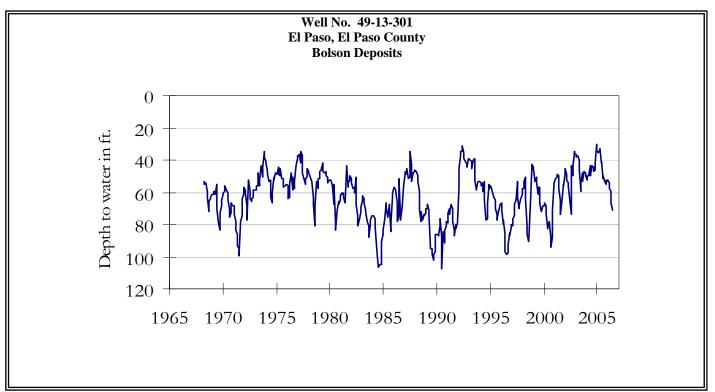
The late May water-level measurement in this Ogallala aquifer well, elevation 3,816 feet above sea level, was 265.75 feet below land surface. This measurement was 0.15 feet below last month's measurement, 2.29 feet below last year's measurement, and 109.75 feet below the initial measurement recorded in 1968. No water level measurements were recorded for September through December 2005.



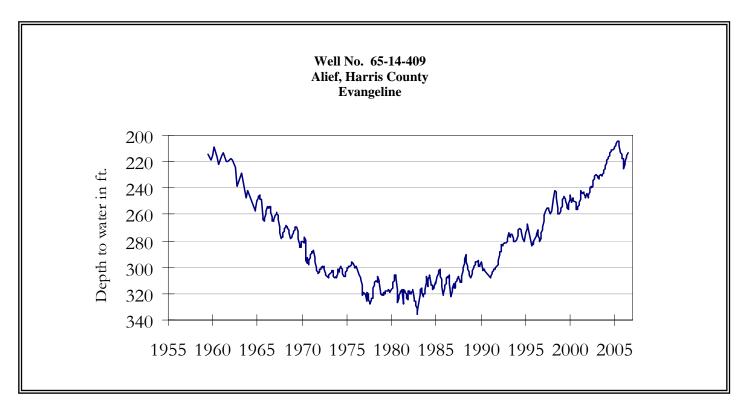
The late May water-level measurement in this Paluxy Formation Trinity aquifer well, elevation 535 feet above sea level, was 447.03 feet below land surface. This measurement was 3.50 feet below last month's measurement, 9.11 feet below last year's measurement, and 69.03 feet below the initial measurement recorded in 1953. No water level measurements were recorded for September or October 2005.



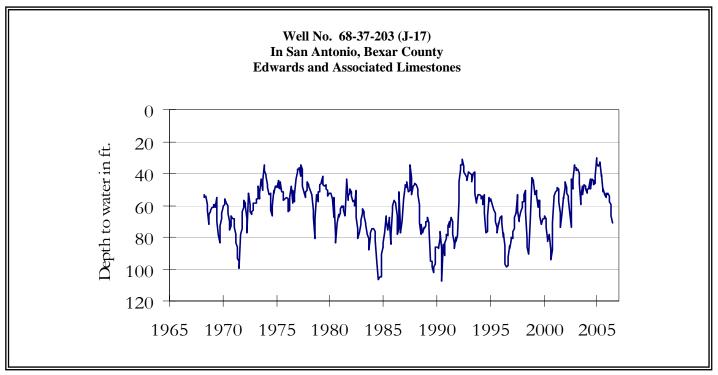
The late May water-level measurement in this Hosston Formation Trinity aquifer well, elevation 823 feet above sea level, was 464.58 feet below land surface. This water level was 1.74 feet above last month's measurement, 7.63 feet below last year's measurement, and 172.58 feet below the initial measurement recorded in 1955. No water level measurement was recorded for October 2005.



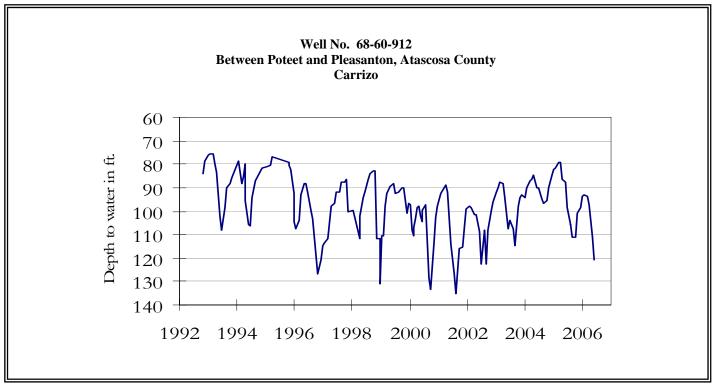
The late May water-level measurement in this Hueco Bolson aquifer well, elevation 3,882 feet above sea level, was 290.97 feet below land surface. This was 1.18 feet below last month's measurement, 1.03 feet below last year's measurement, and 59.07 feet below the initial measurement in 1964. No water level measurements were recorded for October or December 2005.



The late May water-level measurement in this Evangeline Formation Gulf Coast aquifer well, elevation 66 feet above sea level, was 213.25 feet below land surface. This was 1.78 feet above last month's measurement, 9.12 feet below last year's measurement, and 77.75 feet below the initial measurement recorded in 1947.

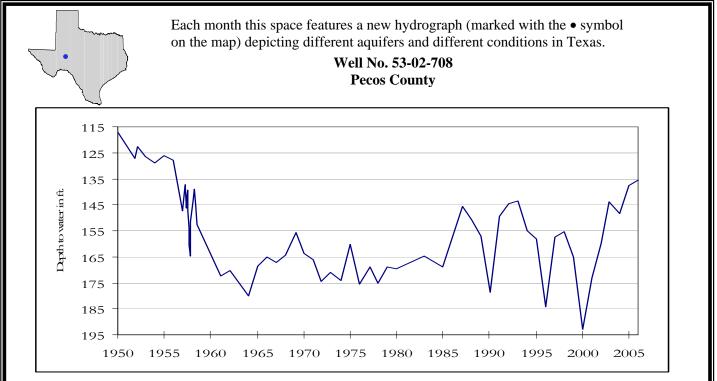


The late May water-level measurement in this Edwards (BFZ) aquifer well, elevation 731 feet above sea level, was 71.28 feet below land surface. This was 4.38 feet below last month's measurement, 30.54 feet below last year's measurement, and 24.64 feet below the initial measurement recorded in 1962.



The late May water-level measurement in this Carrizo aquifer well, elevation 446 feet above sea level, was 121.05 feet below land surface. This measurement was 9.70 feet below last month's measurement, 33.09 feet below last year's measurement, and 85.69 feet below the initial measurement recorded in 1965.

HYDROGRAPH OF THE MONTH



This water level observation well, located in Fort Stockton, at an elevation of 3025 feet ASL, was completed in the Edwards-Trinity aquifer. Significant water-level fluctuations in this well since 1990 are the result of drawdown from nearby pumping wells at time of measurement.

May, 2006

Water level measurements were available for all seven key monitoring wells. Water levels declined in five of the monitoring wells since the beginning of May, ranging from 0.15 feet in the Castro Co. Ogallala well to 9.70 feet in the Atascosa Co. Carrizo well. Water levels rose in the remaining two monitoring wells, ranging from 1.74 feet in the Coryell Co. Trinity well to 1.78 feet in the Harris Co. Evangeline well. The J-17 well recorded a water level of 71.28 feet below land surface. This water level is approximately nine (9) feet above the Stage 1 critical management level.