

RESERVOIR STORAGE

January 2015

At the end of the month, total storage in 114 of the state's major water supply reservoirs was at 20.32 million acre-feet*, or 65% of their total conservation storage capacity. This is 695,074 acre-feet more than a month ago and 257,156 acre-feet more than the storage at this time last year.

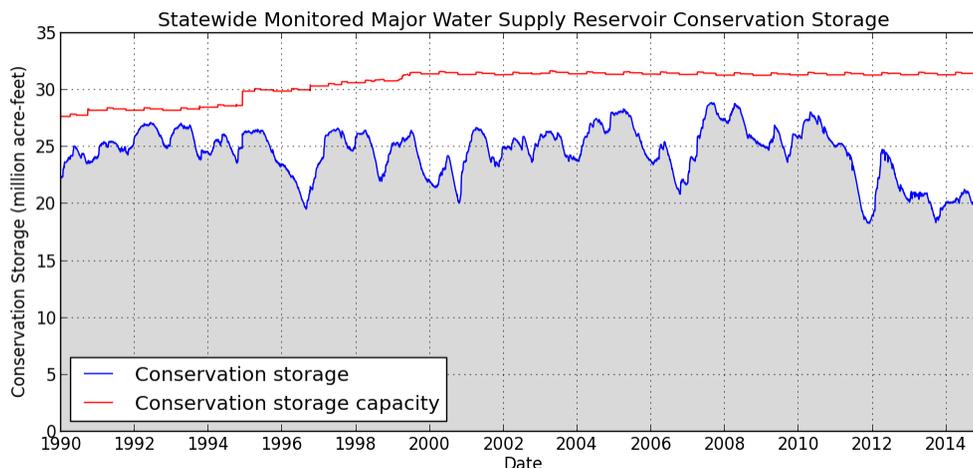
Twenty-two reservoirs held 100% of conservation storage capacity. Fourteen (14) reservoirs were below 10% full: Electra (0%), O. C. Fisher (1%), Palo Duro (2%), E.V. Spence (2%), Meredith (3%), Abilene (3%), Medina (3%), Twin Buttes (3%), North Fork Buffalo Creek (4%), White River (4%), Champion Creek (6%), Mackenzie (7%), Millers Creek (8%), and Palo Pinto (9%).

Total combined storage was greater than 70% in the Trans-Pecos (90%), Upper Coast (94%) and East (94%) regions. The regions with the lowest percentage storage were the High Plains (5%) and Southern regions (32%). Storage declined in 1 region and increased in 8 regions over the past month.

Elephant Butte reservoir held 290,257 acre-feet, or 15% of storage capacity. This is 34,495 acre-feet more than a month ago.

* Only the Texas share of storage in border reservoirs is counted.

CONSERVATION STORAGE DATA FOR



Figures are based on the end of the month data at 114 major reservoirs that represent 96 percent of the total conservation storage capacity of the 188 major water supply reservoirs in Texas. Major reservoirs are defined as having a conservation storage capacity of 5,000 acre-feet or greater.

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	Conservation Storage Capacity (acre-feet)	Conservation Storage end of Jan 2015 (acre-feet)	(%)	Change since end of Dec 2014 (acre-feet)	(%)	Change since end of Jan 2014 (acre-feet)	(%)
HIGH PLAINS							
Palo Duro Reservoir	61,066	954	2	-50	-0	-825	-1
Meredith, Lake (Texas)	500,000	26,255	5	1,141	0	26,255	5
Meredith, Lake (Texas & Oklahoma)	779,556	26,255	3	1,141	0	26,255	3
MacKenzie Reservoir	46,450	3,380	7	0	0	954	2
White River Lake	29,880	1,249	4	15	0	1,249	4
TOTAL	637,396	31,838	5	1,106	0	27,633	4
LOW ROLLING PLAINS							
Greenbelt Lake	59,968	7,347	12	181	0	-1,134	-2
*Electra, Lake	5,626	no data					
N. Fork Buffalo Crk Reservoir	15,400	552	4	-48	-0	482	3
Kemp, Lake	245,307	66,596	27	355	0	7,433	3
Millers Creek Reservoir	26,768	2,049	8	-80	-0	-2,092	-8
Alan Henry Reservoir	94,808	71,065	75	924	1	9,786	10
Stamford, Lake	51,570	5,248	10	-41	0	-2,577	-5
J B Thomas, Lake	199,931	90,096	45	-510	-0	87,485	44
Fort Phantom Hill, Lake	70,030	21,688	31	747	1	-9,202	-13
Sweetwater, Lake	12,267	1,644	13	14	0	-863	-7
Colorado City, Lake	30,758	6,621	22	32	0	-1,461	-5
Champion Creek Reservoir	41,580	2,351	6	4	0	-676	-2
Abilene, Lake	7,900	268	3	0	0	-169	-2
Coleman, Lake	38,075	12,021	32	-59	-0	-3,203	-8
Hords Creek Lake	8,443	3,488	41	35	0	890	11
TOTAL	902,805	291,034	32	1,581	0	84,699	9
NORTH CENTRAL							
Nocona, Lake (Farmers Crk)	21,444	6,954	32	254	1	-2,082	-10
Hubert H Moss Lake	24,058	20,106	84	282	1	-651	-3
Texoma, Lake (Texas)	1,258,113	1,078,166	86	12,309	1	92,962	7
Texoma, Lake (Texas & Oklahoma)	2,525,281	1,078,166	43	12,309	0	92,962	4
*Pat Mayse Lake	113,683	109,319	96	5,808	5	20,894	18
Kickapoo, Lake	86,345	24,590	28	287	0	-2,807	-3
Arrowhead, Lake	230,359	44,321	19	-266	-0	-15,943	-7
Bonham, Lake	11,027	8,244	75	398	4	-799	-7
Crook, Lake	9,195	9,185	100	0	0	344	4
Amon G Carter, Lake	19,266	9,580	50	21	0	396	2
Ray Roberts, Lake	788,167	580,826	74	2,782	0	-8,411	-1
Jim Chapman Lake (Cooper)	260,332	101,184	39	17,416	7	17,016	7
Graham, Lake	45,288	17,180	38	-140	-0	-6,310	-14
*Lost Creek Reservoir	11,950	7,173	60	-71	-1	-1,348	-11
Bridgeport, Lake	366,236	138,242	38	-140	-0	-24,697	-7
Lewisville Lake	563,228	389,047	69	7,963	1	7,109	1
Lavon Lake	406,388	198,999	49	11,151	3	3,892	1
Hubbard Creek Reservoir	318,067	43,374	14	-1,219	-0	-32,368	-10
Possum Kingdom Lake	540,340	336,770	62	1,129	0	-14,581	-3
*Mineral Wells, Lake	6,760	3,358	50	16	0	-667	-10
Weatherford, Lake	17,812	10,839	61	282	2	983	6
Eagle Mountain Lake	179,880	99,609	55	-1,186	-1	-26,524	-15
Worth, Lake	33,495	21,811	65	-84	-0	-1,997	-6
Grapevine Lake	164,703	96,026	58	3,249	2	-12,652	-8
Ray Hubbard, Lake	452,040	279,191	62	17,385	4	-35,001	-8
New Terrell City Lake	8,583	7,113	83	446	5	630	7

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Name of Lake or Reservoir	Conservation Storage Capacity (acre-feet)	Conservation Storage end of Jan 2015 (acre-feet)	(%)	Change since end of Dec 2014 (acre-feet)	(%)	Change since end of Jan 2014 (acre-feet)	(%)
(North Central Continue)							
Palo Pinto, Lake	26,827	2,324	9	-61	-0	-5,944	-22
Benbrook Lake	85,648	56,217	66	-2,778	-3	-13,644	-16
Arlington, Lake	40,188	30,139	75	2,676	7	1,390	3
Joe Pool Lake	175,358	165,530	94	4,962	3	-1,080	-1
*Cisco, Lake	25,895	11,828	46	-74	-0	-2,716	-10
Leon, Lake	26,476	16,289	62	54	0	-5,507	-21
Granbury, Lake	128,046	67,893	53	1,095	1	-4,127	-3
Pat Cleburne, Lake	26,008	17,432	67	416	2	1,351	5
Waxahachie, Lake	10,780	8,634	80	252	2	-438	-4
Bardwell Lake	46,122	39,425	85	1,235	3	2,509	5
Proctor Lake	55,457	16,381	30	97	0	-10,014	-18
Whitney, Lake	553,344	357,931	65	4,140	1	10,812	2
Aquilla Lake	44,460	38,137	86	1,780	4	4,885	11
Navarro Mills Lake	49,827	43,072	86	2,806	6	-6,755	-14
*Halbert, Lake	6,033	4,839	80	466	8	-337	-6
Richland-Chambers Reservoir	1,087,839	697,565	64	22,266	2	-106,430	-10
*Brownwood, Lake	128,839	62,817	49	209	0	-10,009	-8
Waco, Lake	189,567	166,981	88	4,014	2	-4,517	-2
Limestone, Lake	208,014	208,014	100	27,577	13	369	0
Belton Lake	435,225	298,009	68	97	0	-32,725	-8
Stillhouse Hollow Lake	227,771	148,649	65	-1,412	-1	-19,943	-9
Georgetown, Lake	36,823	25,455	69	2,211	6	5,070	14
Granger Lake	50,779	50,779	100	0	0	0	0
Tawakoni, Lake	871,685	508,191	58	18,320	2	-59,477	-7
Mountain Creek, Lake	22,850	22,850	100	0	0	0	0
Squaw Creek, Lake	151,250	149,642	99	501	0	-1,039	-1
TOTAL	10,647,870	6,856,230	64	168,921	2	-300,928	-3
EAST							
Wright Patman Lake	122,593	122,593	100	0	0	0	0
*Sulphur Springs, Lake	17,747	17,747	100	1,962	11	0	0
Cypress Springs, Lake	66,756	66,562	100	933	1	965	1
Bob Sandlin, Lake	190,822	177,186	93	9,341	5	20,430	11
Caddo, Lake	29,898	29,898	100	0	0	0	0
Martin, Lake	75,116	75,116	100	7,679	10	756	1
Monticello, Lake	34,740	34,740	100	306	1	0	0
Fork Reservoir, Lake	605,061	435,798	72	11,543	2	-54,786	-9
O the Pines, Lake	241,363	241,363	100	10,630	4	0	0
Cedar Creek Reservoir in Trinity	644,686	495,177	77	36,730	6	-37,610	-6
Athens, Lake	29,435	28,181	96	1,417	5	-375	-1
Palestine, Lake	373,199	373,199	100	12,663	3	0	0
Tyler, Lake	73,161	73,161	100	2,020	3	6,065	8
Murvaul, Lake	38,285	38,285	100	0	0	206	1
Jacksonville, Lake	25,670	25,670	100	0	0	23	0
Nacogdoches, Lake	39,522	39,522	100	889	2	1,167	3
Houston County Lake	17,113	17,113	100	0	0	0	0
Sam Rayburn Reservoir	2,857,077	2,857,077	100	308,072	11	427,745	15
Toledo Bend Reservoir (Texas)	2,245,752	1,988,337	89	51,417	2	27,222	1
Toledo Bend Reservoir (TX & LA)	4,472,900	1,988,337	44	51,417	1	27,222	1
*Livingston, Lake	1,785,348	1,785,348	100	0	0	0	0
B A Steinhagen Lake	66,961	54,737	82	532	1	6,932	10
Conroe, Lake	416,177	414,588	100	-596	-0	23,159	6
TOTAL	9,996,482	9,391,398	94	455,538	5	421,899	4

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TRANS-PECOS							
**Red Bluff Reservoir	151,110	135,253	90	3,734	2	67,318	45
TOTAL	151,110	135,253	90	3,734	2	67,318	45
EDWARDS PLATEAU							
Oak Creek Reservoir	39,210	5,952	15	-6	-0	-2,092	-5
E V Spence Reservoir	517,272	10,760	2	-341	-0	-7,097	-1
O C Fisher Lake	119,445	1,379	1	3	0	630	1
*O H Ivie Reservoir	554,340	79,766	14	-2,448	-0	5,806	1
Twin Buttes Reservoir	182,454	6,105	3	702	0	no data	
Brady Creek Reservoir	28,808	7,777	27	0	0	-1,486	-5
Buchanan, Lake	860,607	298,244	35	4,896	1	-27,864	-3
Inks, Lake	13,962	12,870	92	23	0	-566	-4
Lyndon B Johnson, Lake	115,056	110,391	96	-366	-0	-672	-1
*Amistad Reservoir (Texas)	1,840,849	1,153,542	63	-7,449	-0	247,708	13
*Amistad Reservoir (TX & Mexico)	3,275,532	1,153,542	35	-7,449	-0	247,708	8
TOTAL	4,272,003	1,686,786	39	-4,986	-0	214,367	5
SOUTH CENTRAL							
Travis, Lake	1,113,348	374,223	34	14,830	1	-26,735	-2
*Austin, Lake	23,972	23,735	99	1,024	4	932	4
Somerville Lake	147,104	147,104	100	1,407	1	29,139	20
Canyon Lake	378,781	291,774	77	5,772	2	-25,598	-7
Medina Lake	254,823	8,361	3	74	0	-536	-0
*Coletto Creek Reservoir	31,040	20,269	65	423	1	-785	-3
TOTAL	1,949,068	865,466	44	23,530	1	-23,583	-1
UPPER COAST							
Houston, Lake	120,686	120,686	100	0	0	0	0
Texana, Lake	159,566	142,473	89	12,907	8	9,029	6
TOTAL	280,252	263,159	94	12,907	5	9,029	3
SOUTHERN							
Choke Canyon Reservoir	695,262	172,531	25	-1,230	-0	-61,252	-9
Corpus Christi, Lake	256,961	120,098	47	-4,080	-2	-106,549	-41
*Falcon Reservoir (Texas)	1,551,007	504,966	33	38,053	2	-75,477	-5
*Falcon Reservoir (TX & Mexico)	2,646,817	504,966	19	38,053	1	-75,477	-3
TOTAL	2,503,230	797,595	32	32,743	1	-243,278	-10
STATE TOTAL	31,340,216	20,318,759	65	695,074	2	257,156	1
* Conservation volume is used as conservation storage capacity because the dead storage is unknown.							
** Nov 11/27 2013 – 12/02 2014 data were not available. End of Nov 2013 storage was estimated.							
Elephant Butte Reservoir	1,973,358	290,257	15	34,495	2	-21,050	-1

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.

JANUARY RESERVOIR CONDITIONS

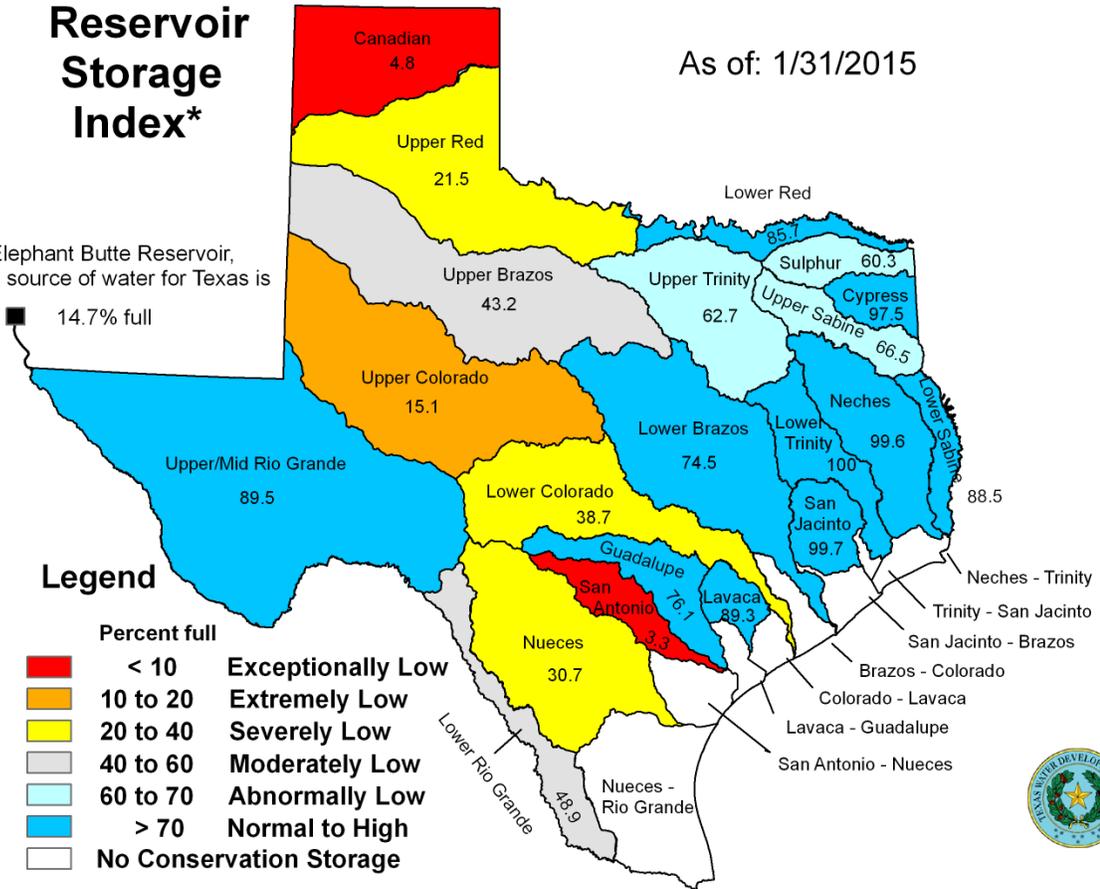
As of: 1/31/2015

Reservoir Storage Index*

Elephant Butte Reservoir, a source of water for Texas is 14.7% full

Legend

Percent full	Category
< 10	Exceptionally Low
10 to 20	Extremely Low
20 to 40	Severely Low
40 to 60	Moderately Low
60 to 70	Abnormally Low
> 70	Normal to High
No Conservation Storage	

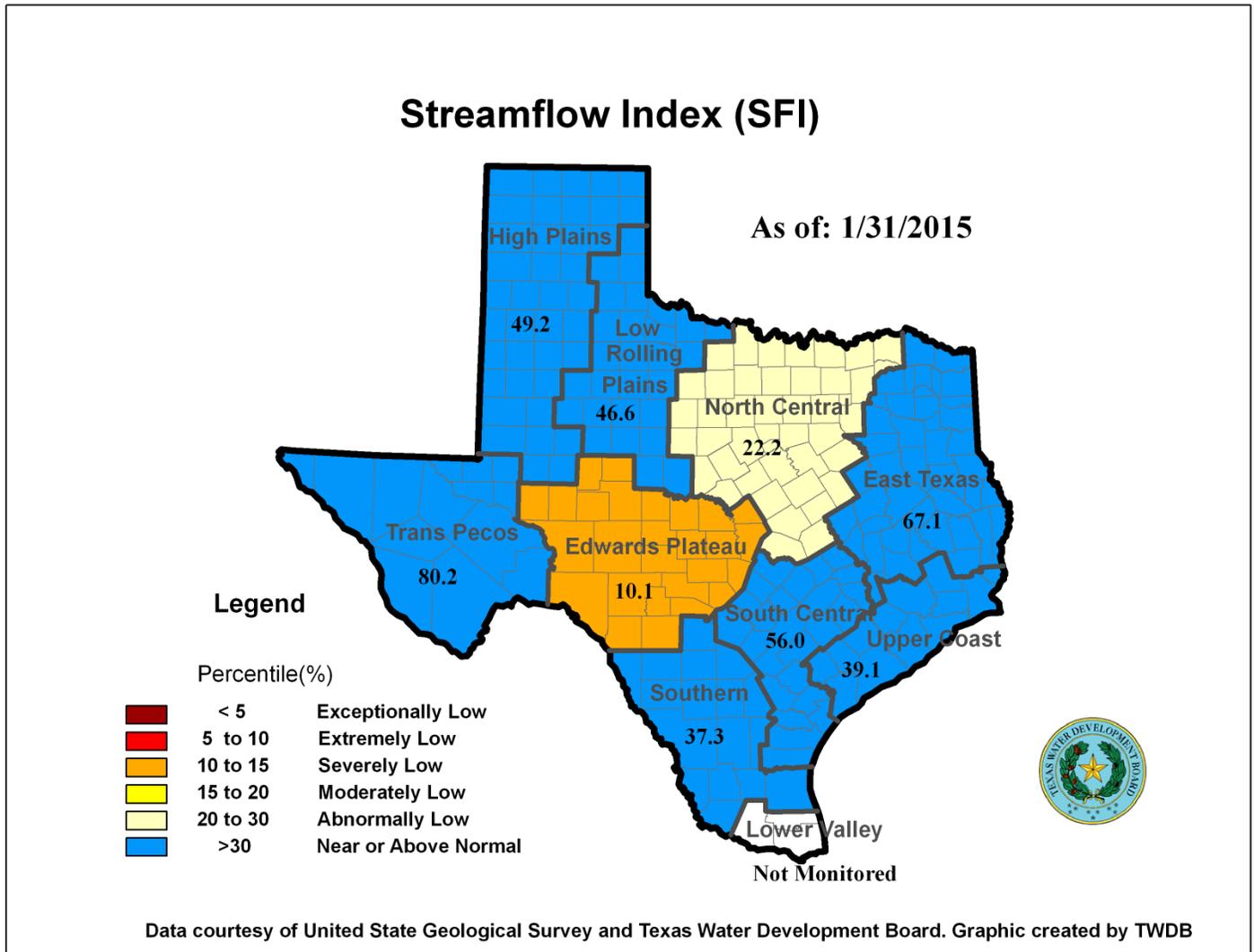


*Percent of combined conservation storage capacity of 114 major water supply reservoirs by sub-basin (dead pools are excluded)

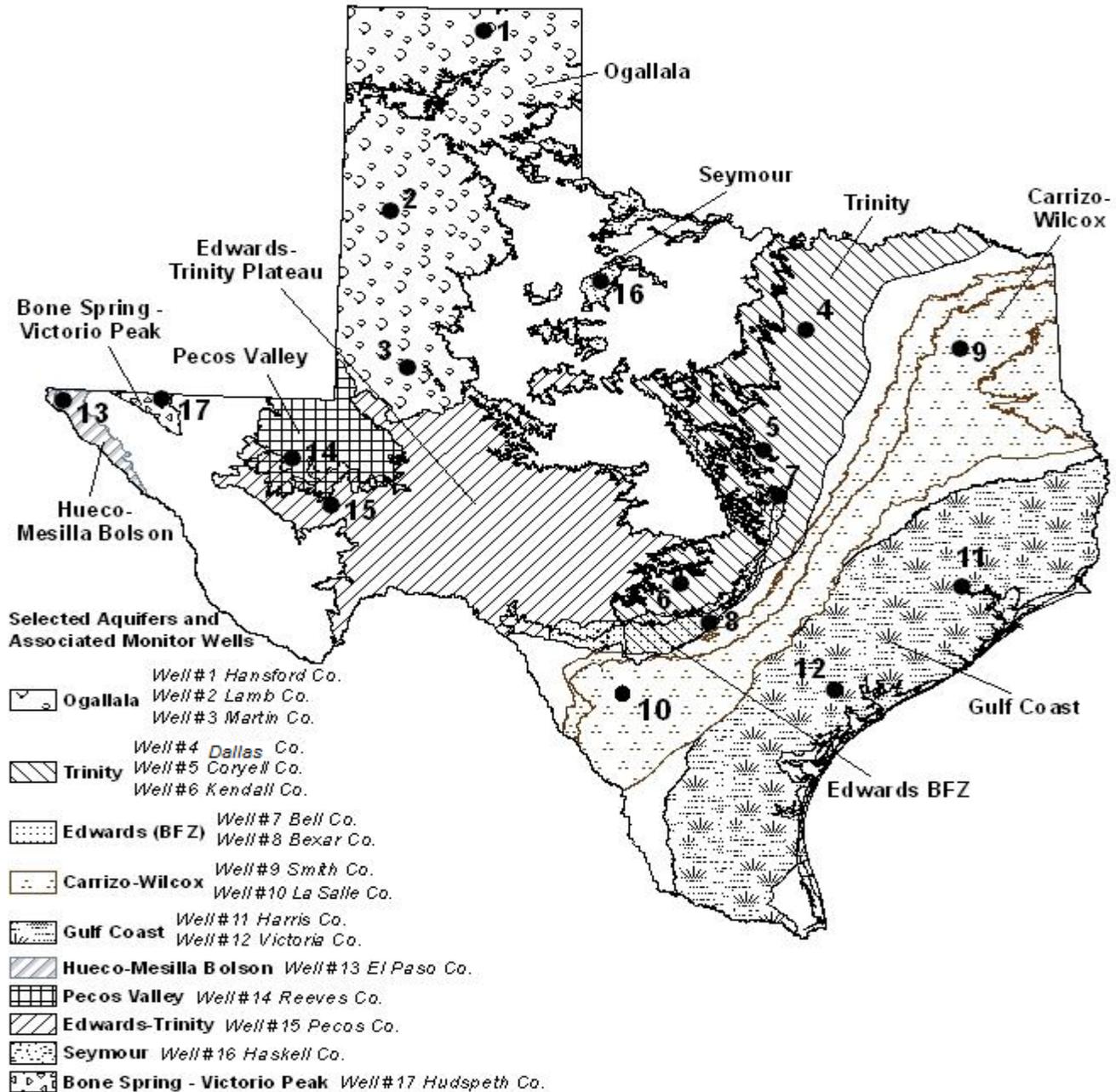
JANUARY STREAMFLOW CONDITIONS

Of 29 reporting index stations monitored this month, computed 30-day mean flows were exceptionally low (<5%) at 1 station, extremely low (5-10%) at 2 stations, severely low (10-15%) at 5 stations, moderately low (15-20%) at 2 stations, abnormally low (20-30%) at 2 stations, and near normal (30% - 70%) at the remaining 17 stations. Compared to last month, flows have increased at 19 index stations and decreased at 6 stations.

On a regional basis, flows in this month at index stations were severely low in the Edwards Plateau region, abnormally low in the North Central region, but near or above normal in all other regions. Streamflow in the Lower Valley region is not monitored.



JANUARY 2015 GROUNDWATER LEVELS IN OBSERVATION WELLS



January, 2015

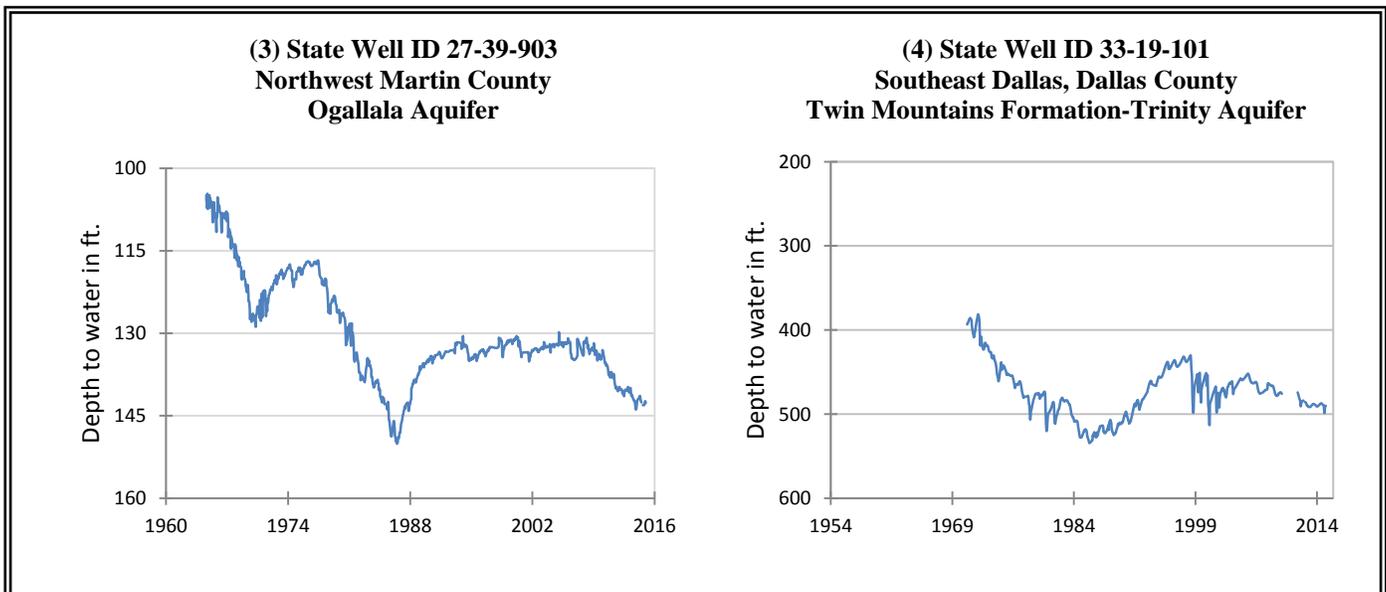
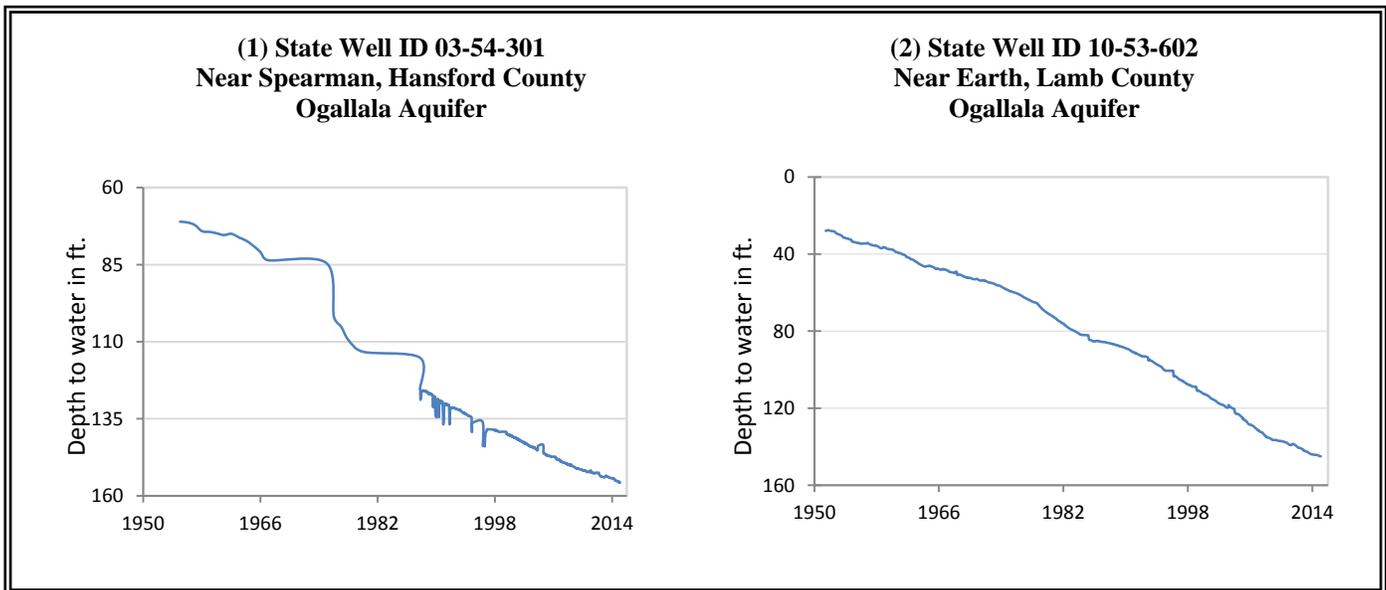
Water level measurements were available for all of the seventeen key monitoring wells in the state. Water levels rose in fifteen of the monitoring wells since the beginning of December, ranging from 0.09 feet in the Haskell County Seymour Aquifer well to 13.18 feet in the La Salle County Carrizo-Wilcox Aquifer well. Water levels declined in two monitoring wells, ranging from 0.05 feet in the Lamb County Ogallala Aquifer well to 0.34 feet in the Smith County Carrizo-Wilcox Aquifer well. The J-17 well in San Antonio recorded a water level of 85.11 feet below land surface or 645.89 feet above mean sea level. This water level is 5.89 above the Stage III critical management level in that segment of the Edwards Aquifer. Stage III restrictions were declared by the EAA when the ten-day average fell below the 640-foot elevation, or 91 feet below land surface.

* ID is used in this publication to differentiate between the monitoring well number (1 - 17) as displayed on the aquifer map and the TWDB's six- or seven-digit state well "identification" number.

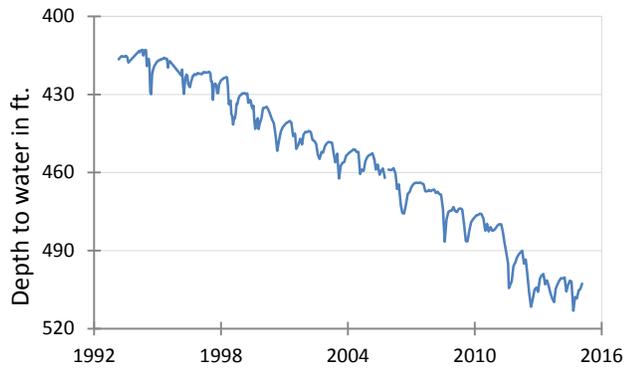
Monitoring Well	January	December	month change	year change	historical change	first measured
(1) Hansford 0354301	155.55	155.76	0.21	-1.25	-85.43	1951
(2) Lamb 1053602	145.09	145.02	-0.05	-0.89	-116.94	1951
(3) Martin 2739903	142.74	143.18	0.44	-1.08	-37.85	1964
(4) Dallas 3319101	490.22	490.66	0.44	-0.13	-268.22	1954
(5) Coryell 4035404	502.72	504.88	2.16	-1.93	-210.72	1955
(6) Kendall 6802609	132.68	140.61	7.93	-1.08	-72.68	1975
(7) Bell 5804816	124.87	125.78	0.91	-0.62	-1.74	2008
(8) Bexar 6837203	85.11	97.2	12.09	4.59	-34.47	1932
(9) Smith 3430907	434.99	434.65	-0.34	2.72	-68.99	1987
(10) La Salle 7738103	497.4	510.58	13.18	-26.33	-244.33	2003
(11) Harris 6514409	190.18	191.24	1.06	2.26	-54.68*	1956
(12) Victoria 8017502	36.92	37.94	1.02	-0.39	-2.92	1958
(13) El Paso 4913301	295.59	295.82	0.23	-1.1	-63.69	1967
(14) Reeves 4644501	151.13	153.99	2.86	3.43	-59.04	1952
(15) Pecos 5216802	192.11	200.9	8.79	5.44	54.77	1976
(16) Haskell 2135748	48.76	48.85	0.09	-0.56	-7.43	2002
(17) Hudspeth 4807516	134.45	137.04	2.59	-1.96	-30.53	1964

*change since the original measurement of 135.5 feet below land surface in 1947 (measurement not shown on the hydrograph)

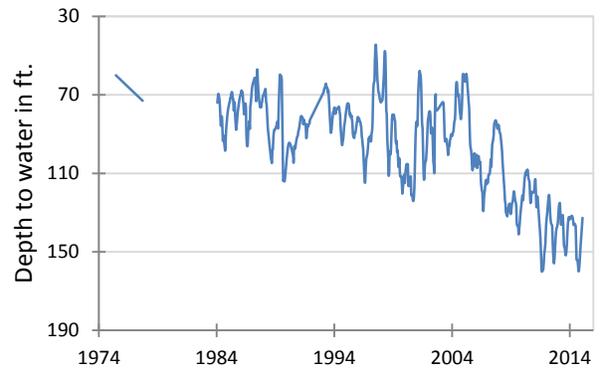
JANUARY GROUNDWATER LEVELS IN OBSERVATION WELLS



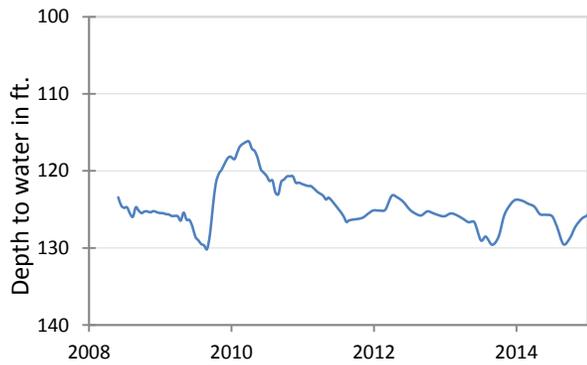
**(5) State Well ID 40-35-404
Gatesville, Coryell County
Hosston Formation-Trinity Aquifer**



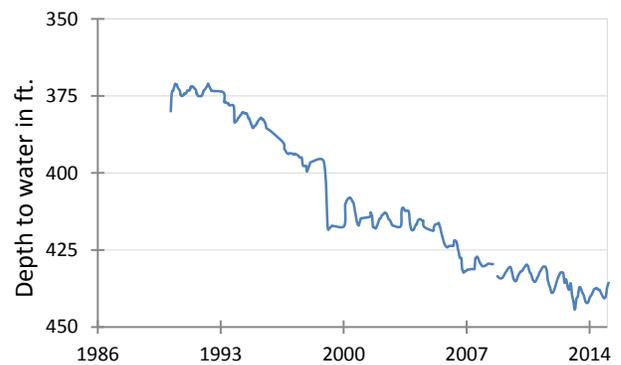
**(6) State Well ID 68-02-609
Waring, Kendall County
Cow Creek Formation-Trinity Aquifer**



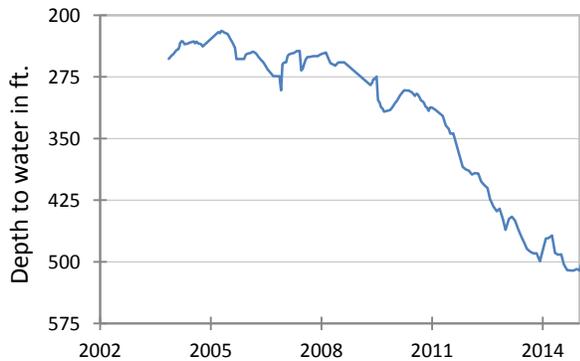
**(7) State Well ID 58-04-816
Near Salado, Bell County
Edwards (BFZ) Aquifer**



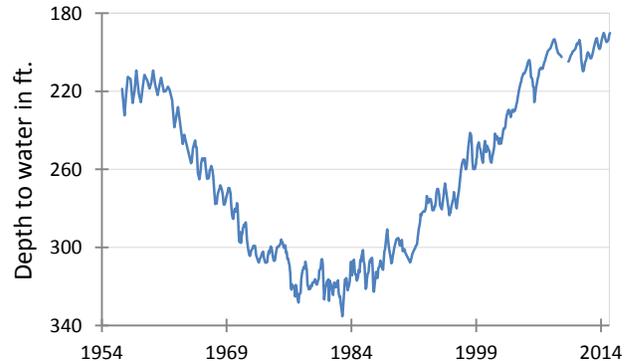
**(9) State Well ID 34-30-907
Red Springs, Smith County
Carrizo-Wilcox Aquifer**



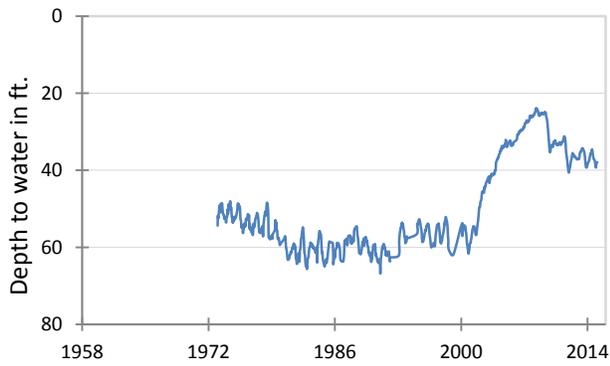
**(10) State Well ID 77-38-103
Near Cotulla, La Salle County
Carrizo-Wilcox Aquifer**



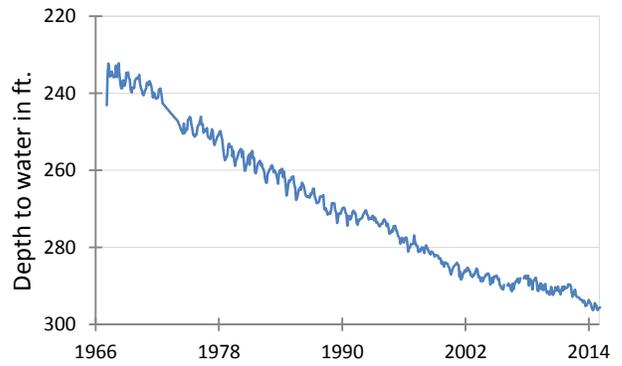
**(11) State Well ID 65-14-409
Alief, Harris County
Evangeline Formation-Gulf Coast Aquifer**



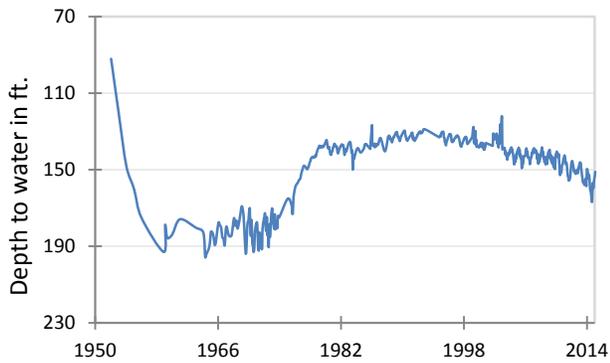
(12) State Well ID 80-17-502
Near Bloomington, Victoria County
Lissie Formation-Gulf Coast Aquifer



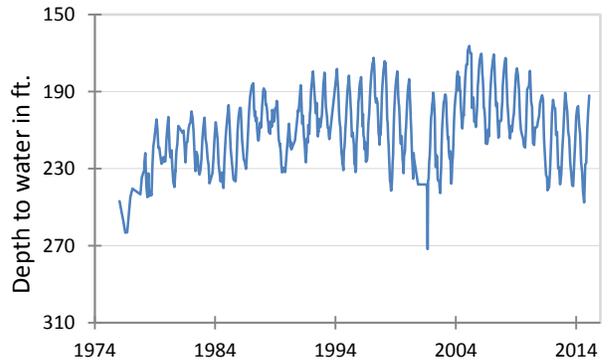
(13) State Well ID 49-13-301
El Paso, El Paso County
Hueco-Mesilla Bolson Aquifer



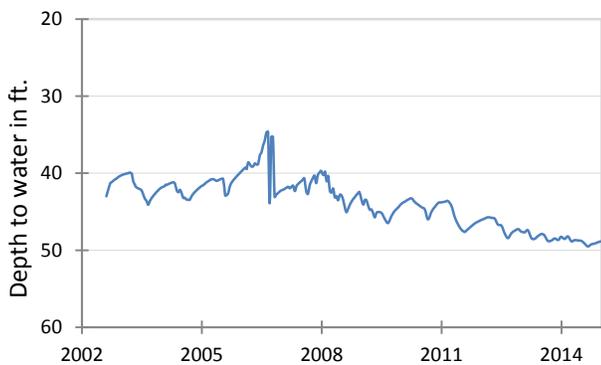
(14) State Well ID 46-44-501
Near Pecos, Reeves County
Pecos Valley Aquifer



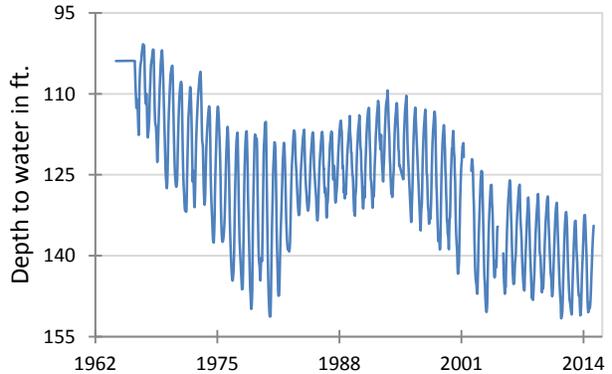
(15) State Well ID 52-16-802
Fort Stockton, Pecos County
Edwards-Trinity (Plateau) Aquifer



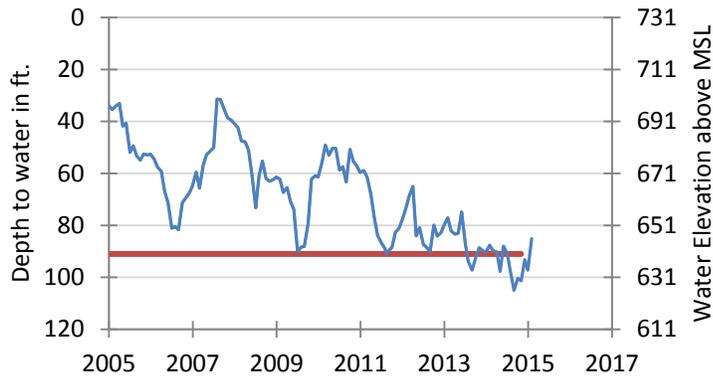
(16) State Well ID 21-35-748
Near O'Brien, Haskell County
Seymour Aquifer



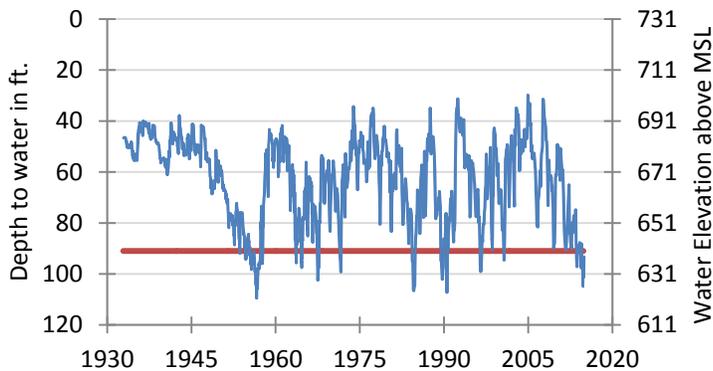
(17) State Well ID 48-07-516
Dell City, Hudspeth County
Bone Spring - Victorio Peak Aquifer



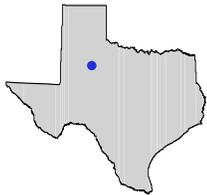
**(8) State Well ID 68-37-203 (J-17)
In San Antonio, Bexar County
Edwards (BFZ) Aquifer**



The late December water level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above mean sea level, was 85.11 feet below land surface, or 645.89 feet above mean sea level. This was 12.09 feet above last month's measurement, 4.59 feet above last year's measurement, and 38.47 feet below the initial measurement recorded in 1932.



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



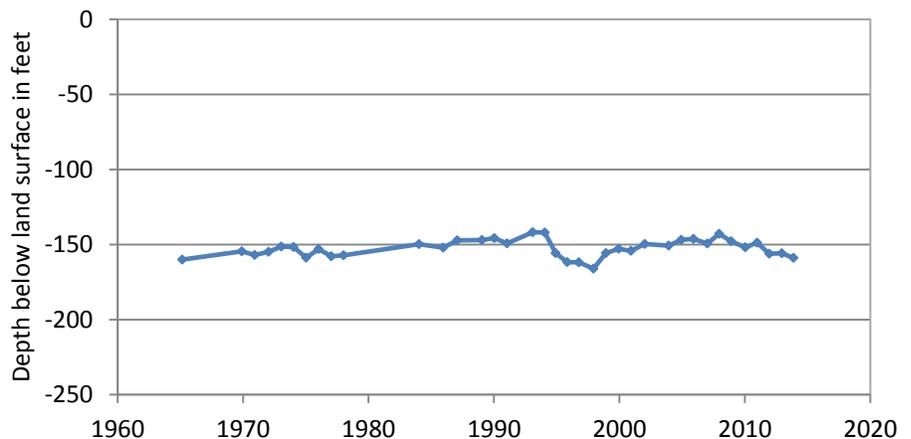
HYDROGRAPH OF THE MONTH

Each month this space features a new hydrograph (marked with the • symbol on the map) depicting different aquifers and different conditions in Texas.

Edwards-Trinity (High Plains) Aquifer

The Edwards Trinity (High Plains) Aquifer is a minor aquifer that underlies about 9,000 miles of the Ogallala Aquifer in western Texas and eastern New Mexico. Its water-producing units include sandstone of the Antlers Formation (Trinity Group) and limestone of the overlying Comanche Peak and Edwards Formation. Water quality generally is slightly saline, with total dissolved solids ranging from 1,000 to 2,000 milligrams per liter, but can range from 400 to more than 3,000 milligrams per liter. The areas with the poorest water quality, exceeding 20,000 milligrams per liter of total dissolved solids, is overlain by saline lakes or gypsum-rich Tahoka and Double Lakes formations. Freshwater saturated thickness in the aquifer averages 125 feet. Irrigation counts for 95 percent of the aquifer's usage.

Well #2344608, 240 feet deep
irrigation, northwest Garza County



Depth-to-water in this well has been measured by the TWDB for 50 years. Although water levels have remained relatively unchanged throughout the period of record, slight declines in the late 1990s and from 2009 through the present reflect increased pumping during these periods of drought.

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