

## ***FEBRUARY RESERVOIR STORAGE***

At the end of the month, total storage in 114 of the state's major water supply reservoirs was at 26.82 million acre-feet\* or 86% of total conservation storage capacity. This is 83,763 acre-feet less than a month ago and 6.2 million acre-feet more than storage at this time last year.

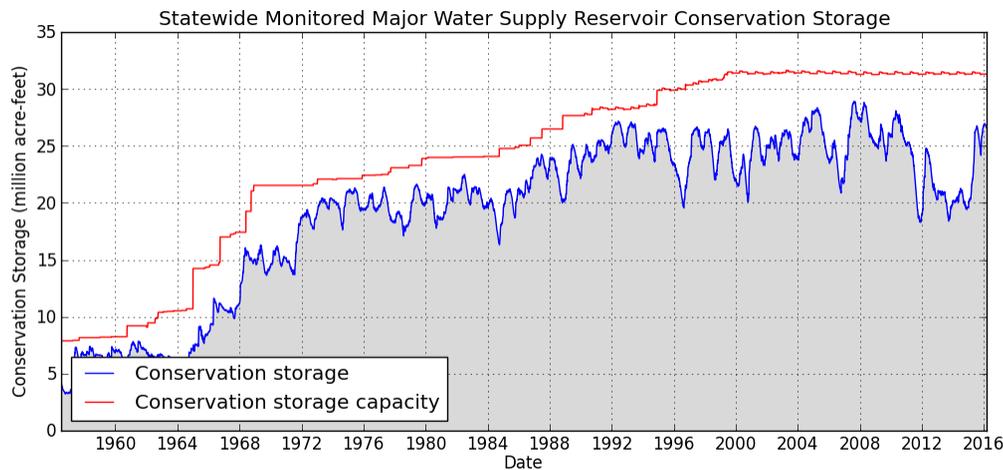
Sixty-seven (67) reservoirs held 100% of conservation storage capacity, primarily in the North Central (42) and East (19) regions. Three (3) reservoirs remain below 10% full, Palo Duro (3%), E.V. Spence (9%), and Twin Buttes (5%).

Total combined storage was greater than 70% in the Upper Coast (100%), East (100%), North Central (97%), South Central (92%), Trans-Pecos (91%), and Low Rolling Plains (76%) regions. Regions with the lowest percentage of storage were the High Plains (24%) and Southern (49%) regions. Storage increased in seven regions and decline in two regions over the past month.

Elephant Butte reservoir held 400,910 acre-feet or 20% of storage capacity. This is 40,008 acre-feet more than a month ago.

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

### ***CONSERVATION STORAGE DATA FOR 114 MAJOR RESERVOIRS***



Storage is based on the end of the month data in 114 major reservoirs that represent 96% of the total conservation storage capacity of 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 Feb 2016		Change since end of Jan 2016		Change since end of Feb 2015		
		(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)**	(%)	
<b>HIGH PLAINS</b>								
Palo Duro Reservoir	61,066	1,855	3	-159	-0	957	2	
Meredith, Lake (Texas)	500,000	132,071	26	1,108	0	104,663	21	
Meredith, Lake (Texas & Oklahoma)	779,556	132,071	17	1,108	0	104,663	13	
MacKenzie Reservoir	46,450	7,533	16	-58	-0	4,179	9	
White River Lake	29,880	9,863	33	-189	-1	8,710	29	
<b>TOTAL</b>	<b>637,396</b>	<b>151,322</b>	<b>24</b>	<b>702</b>	<b>0</b>	<b>118,509</b>	<b>19</b>	
<b>LOW ROLLING PLAINS</b>								
Greenbelt Lake	59,968	14,219	24	0	0	6,783	11	
N. Fork Buffalo Crk Reservoir	15,400	12,662	82	-76	-0	12,132	79	
Kemp, Lake	245,307	222,613	91	10,001	4	155,839	64	
Millers Creek Reservoir	26,768	26,768	100	0	0	24,723	92	
Alan Henry Reservoir	94,808	89,134	94	-1,119	-1	18,597	20	
Stamford, Lake	51,570	51,570	100	0	0	46,501	90	
J B Thomas, Lake	199,931	141,646	71	-2,015	-1	52,659	26	
Fort Phantom Hill, Lake	70,030	68,898	98	-233	-0	46,933	67	
Sweetwater, Lake	12,267	1,734	14	87	1	125	7	
Colorado City, Lake	30,758	8,530	28	-143	-0	2,044	7	
Champion Creek Reservoir	41,580	9,455	23	-101	-0	7,145	17	
Abilene, Lake	7,900	2,293	29	67	1	no data		
Coleman, Lake	38,075	30,264	79	-99	-0	18,434	48	
Hords Creek Lake	8,443	4,059	48	-19	-0	612	7	
<b>TOTAL</b>	<b>902,805</b>	<b>683,845</b>	<b>76</b>	<b>6,350</b>	<b>1</b>	<b>392,402</b>	<b>43</b>	
<b>NORTH CENTRAL</b>								
Nocona, Lake (Farmers Crk)	21,444	21,444	100	0	0	14,807	69	
Hubert H Moss Lake	24,058	22,330	93	-1,598	-7	1,180	5	
Texoma, Lake (Texas)	1,258,113	1,188,486	94	-54,760	-4	96,290	8	
Texoma, Lake (Texas & Oklahoma)	2,525,281	1,188,486	47	-54,760	-2	96,290	4	
*Pat Mayse Lake	113,683	113,683	100	0	0	no data		
Kickapoo, Lake	86,345	86,345	100	0	0	62,068	72	
Arrowhead, Lake	230,359	230,359	100	0	0	186,726	81	
Bonham, Lake	11,027	11,027	100	0	0	2,655	24	
Crook, Lake	9,195	9,195	100	31	0	0	0	
Amon G Carter, Lake	19,266	19,266	100	0	0	9,581	50	
Ray Roberts, Lake	788,167	788,167	100	0	0	193,747	25	
Jim Chapman Lake (Cooper)	260,332	260,332	100	0	0	141,622	54	
Graham, Lake	45,288	45,288	100	123	0	28,333	63	
*Lost Creek Reservoir	11,950	11,950	100	0	0	4,780	40	
Bridgeport, Lake	366,236	366,236	100	0	0	227,924	62	
Lewisville Lake	563,228	563,228	100	0	0	155,397	28	
Lavon Lake	406,388	406,388	100	0	0	186,309	46	
Hubbard Creek Reservoir	318,067	145,236	46	-2,613	-1	103,838	33	
Possum Kingdom Lake	523,873	523,873	100	0	0	185,972	35	
*Mineral Wells, Lake	6,760	6,760	100	0	0	3,321	49	
Weatherford, Lake	17,812	17,812	100	0	0	7,087	40	
Eagle Mountain Lake	179,880	179,880	100	0	0	81,263	45	
Worth, Lake	33,495	33,495	100	0	0	10,918	33	
Grapevine Lake	164,703	164,703	100	0	0	63,482	39	
Ray Hubbard, Lake	452,040	452,040	100	0	0	155,551	34	
New Terrell City Lake	8,583	8,583	100	0	0	789	9	
Palo Pinto, Lake	26,766	26,766	100	0	0	24,512	92	
Benbrook Lake	85,648	84,294	98	-1,354	-2	22,546	26	
Arlington, Lake	40,188	40,188	100	no data		7,785	19	

**CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS**

Name of Lake or Reservoir	Conservation Storage Capacity (acre-feet)	Conservation Storage end of Feb 2016		Change since end of Jan 2016		Change since end of Feb 2015		
		(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)**	(%)	
<i>(North Central Continued)</i>								
Joe Pool Lake	175,358	175,358	100	0	0	6,347	4	
*Cisco, Lake	25,895	19,677	76	-197	-1	7,832	30	
Leon, Lake	26,476	26,396	100	-50	-0	10,182	38	
Granbury, Lake	125,756	125,756	100	0	0	54,929	44	
Pat Cleburne, Lake	26,008	26,008	100	0	0	8,404	32	
Waxahachie, Lake	10,780	10,780	100	0	0	1,902	18	
Bardwell Lake	46,122	46,122	100	0	0	5,897	13	
Proctor Lake	55,457	55,457	100	0	0	39,383	71	
Whitney, Lake	553,344	506,108	91	-26,823	-5	146,172	26	
Aquilla Lake	43,243	43,243	100	0	0	6,497	15	
Navarro Mills Lake	49,827	49,827	100	0	0	6,621	13	
*Halbert, Lake	6,033	5,225	87	6	0	338	6	
Richland-Chambers Reservoir	1,087,839	1,087,839	100	0	0	394,960	36	
*Brownwood, Lake	128,839	128,582	100	-257	-0	66,641	52	
Waco, Lake	189,418	189,418	100	1,617	1	20,682	11	
Limestone, Lake	208,014	207,891	100	-123	-0	246	0	
Belton Lake	435,225	435,225	100	0	0	138,864	32	
Stillhouse Hollow Lake	227,771	227,771	100	0	0	80,087	35	
Georgetown, Lake	36,823	36,823	100	0	0	11,265	31	
Granger Lake	50,779	50,779	100	0	0	0	0	
Tawakoni, Lake	871,685	871,685	100	0	0	336,504	39	
Mountain Creek, Lake	22,850	20,721	91	-2,129	-9	-2,129	-9	
Squaw Creek, Lake	151,250	149,047	99	-2,203	-1	1,839	1	
<b>TOTAL</b>	<b>10,627,686</b>	<b>10,323,092</b>	<b>97</b>	<b>-90,330</b>	<b>-1</b>	<b>3,318,625</b>	<b>31</b>	
<b>EAST</b>								
Wright Patman Lake	122,593	122,593	100	0	0	0	0	
*Sulphur Springs, Lake	17,747	17,747	100	474	3	0	0	
Cypress Springs, Lake	66,756	66,756	100	0	0	0	0	
Bob Sandlin, Lake	190,822	190,822	100	0	0	3,614	2	
Caddo, Lake	29,898	29,898	100	0	0	no data		
Martin, Lake	75,726	75,726	100	49	0	0	0	
Monticello, Lake	34,740	34,740	100	0	0	0	0	
Fork Reservoir, Lake	605,061	605,061	100	14,936	2	151,744	25	
O the Pines, Lake	241,363	241,363	100	0	0	0	0	
Cedar Creek Reservoir in Trinity	644,686	644,686	100	327	0	121,517	19	
Athens, Lake	29,503	29,503	100	0	0	496	2	
Palestine, Lake	367,303	367,303	100	0	0	0	0	
Tyler, Lake	72,073	72,073	100	0	0	0	0	
Murvail, Lake	38,285	38,285	100	0	0	0	0	
Jacksonville, Lake	25,670	25,670	100	0	0	0	0	
Nacogdoches, Lake	39,522	39,021	99	-326	-1	194	0	
Houston County Lake	17,113	17,113	100	0	0	0	0	
Sam Rayburn Reservoir	2,857,077	2,857,077	100	0	0	5,625	0	
Toledo Bend Reservoir (Texas)	2,236,450	2,223,005	99	-13,445	-1	166,017	7	
Toledo Bend Reservoir (TX & LA)	4,472,900	2,223,005	50	-13,445	-0	166,017	4	
*Livingston, Lake	1,785,348	1,785,348	100	0	0	0	0	
B A Steinhagen Lake	66,961	64,657	97	6,380	10	12,210	18	
Conroe, Lake	410,988	410,988	100	192	0	2,682	1	
<b>TOTAL</b>	<b>9,975,685</b>	<b>9,959,435</b>	<b>100</b>	<b>8,587</b>	<b>0</b>	<b>464,099</b>	<b>5</b>	
<b>TRANS-PECOS</b>								
Red Bluff Reservoir	151,110	136,844	91	1,798	1	-968	-1	
<b>TOTAL</b>	<b>151,110</b>	<b>136,844</b>	<b>91</b>	<b>1,798</b>	<b>1</b>	<b>-968</b>	<b>-1</b>	

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS							
Name of Lake or Reservoir	Conservation Storage Capacity (acre-feet)	Conservation Storage end of Feb 2016		Change since end of Jan 2016		Change since end of Feb 2015	
		(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)**	(%)
<b>EDWARDS PLATEAU</b>							
Oak Creek Reservoir	39,210	13,818	35	156	0	7,970	20
E V Spence Reservoir	517,272	48,825	9	-1,311	-0	38,936	8
O C Fisher Lake	115,742	18,560	16	-426	-0	17,914	15
*O H Ivie Reservoir	554,340	68,163	12	-1,569	-0	-9,152	-2
Twin Buttes Reservoir	182,454	9,862	5	79	0	4,023	2
Nas worthy	9,615	7,733	80	12	0	489	5
Brady Creek Reservoir	28,808	10,694	37	16	0	3,068	11
Buchanan, Lake	860,607	711,932	83	6,746	1	411,164	48
Inks, Lake	13,962	12,915	93	-143	-1	105	1
Lyndon B Johnson, Lake	115,249	111,126	96	-245	-0	123	0
*Amistad Reservoir (Texas)	1,840,849	1,236,721	67	3,755	0	88,087	5
*Amistad Reservoir (TX & Mexico)	3,275,532	1,236,721	38	3,755	0	88,087	3
<b>TOTAL</b>	<b>4,278,108</b>	<b>2,250,349</b>	<b>53</b>	<b>7,070</b>	<b>0</b>	<b>562,727</b>	<b>13</b>
<b>SOUTH CENTRAL</b>							
Travis, Lake	1,113,348	1,055,485	95	5,168	0	675,923	61
*Austin, Lake	23,972	22,895	96	46	0	46	0
Somerville Lake	147,104	147,104	100	0	0	0	0
Canyon Lake	378,781	378,781	100	1,234	0	86,453	23
Medina Lake	254,823	160,305	63	-2,051	-1	152,045	60
*Coletto Creek Reservoir	31,040	29,633	95	188	1	8,519	27
<b>TOTAL</b>	<b>1,949,068</b>	<b>1,794,203</b>	<b>92</b>	<b>4,585</b>	<b>0</b>	<b>922,986</b>	<b>47</b>
<b>UPPER COAST</b>							
Houston, Lake	120,686	120,686	100	0	0	0	0
Texana, Lake	159,566	159,382	100	918	1	26,616	17
<b>TOTAL</b>	<b>280,252</b>	<b>280,068</b>	<b>100</b>	<b>918</b>	<b>0</b>	<b>26,616</b>	<b>10</b>
<b>SOUTHERN</b>							
Choke Canyon Reservoir	695,262	239,936	35	7,773	1	72,167	10
Corpus Christi, Lake	256,961	202,527	79	-4,112	-2	83,988	33
*Falcon Reservoir (Texas)	1,551,007	793,697	51	-27,104	-2	264,579	17
*Falcon Reservoir (TX & Mexico)	2,646,817	793,697	30	-27,104	-1	264,579	10
<b>TOTAL</b>	<b>2,503,230</b>	<b>1,236,160</b>	<b>49</b>	<b>-23,443</b>	<b>-1</b>	<b>420,734</b>	<b>17</b>
<b>STATEWIDE TOTAL</b>							
<b>STATEWIDE TOTAL</b>	<b>31,305,340</b>	<b>26,815,318</b>	<b>86</b>	<b>-83,763</b>	<b>-0</b>	<b>6,199,114</b>	<b>20</b>
Elephant Butte Reservoir	1,973,358	400,910	20	40,008	2	73,054	4

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

\*\* Yearly changes do not include reservoirs that did not have data in last January.

**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.

# FEBRUARY RESERVOIR CONDITIONS

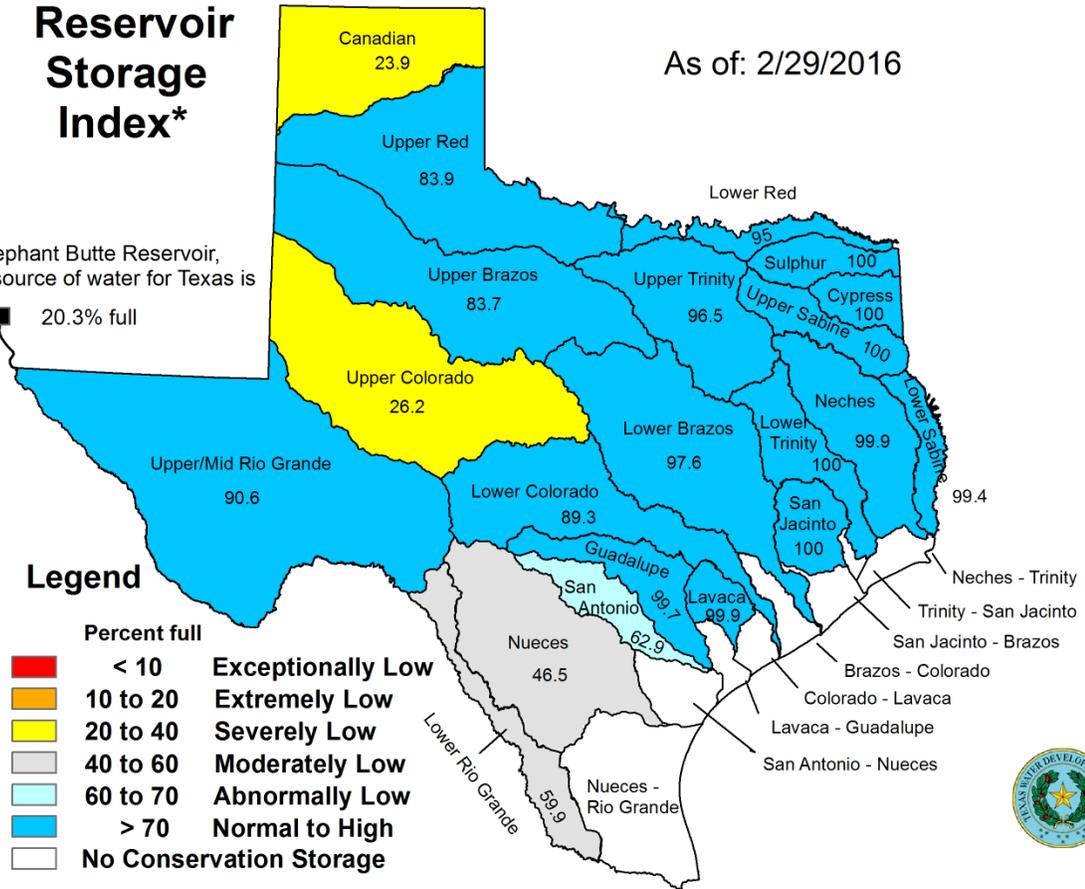
As of: 2/29/2016

## Reservoir Storage Index\*

Elephant Butte Reservoir, a source of water for Texas is 20.3% 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	



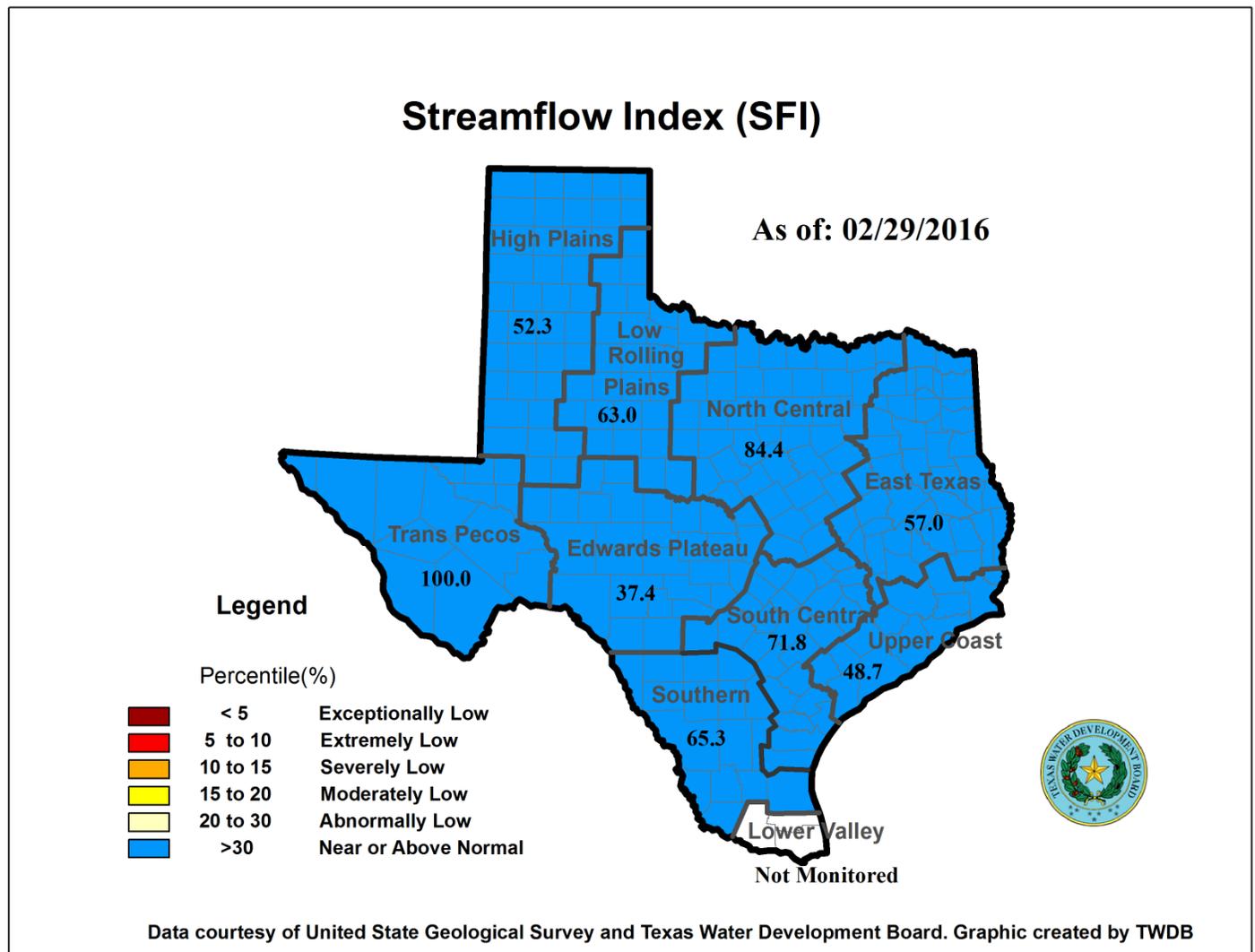
\*Percent of combined conservation storage capacity of 114 major water supply reservoirs by sub-basin (dead pools are excluded)

## ***FEBRUARY STREAMFLOW CONDITIONS***

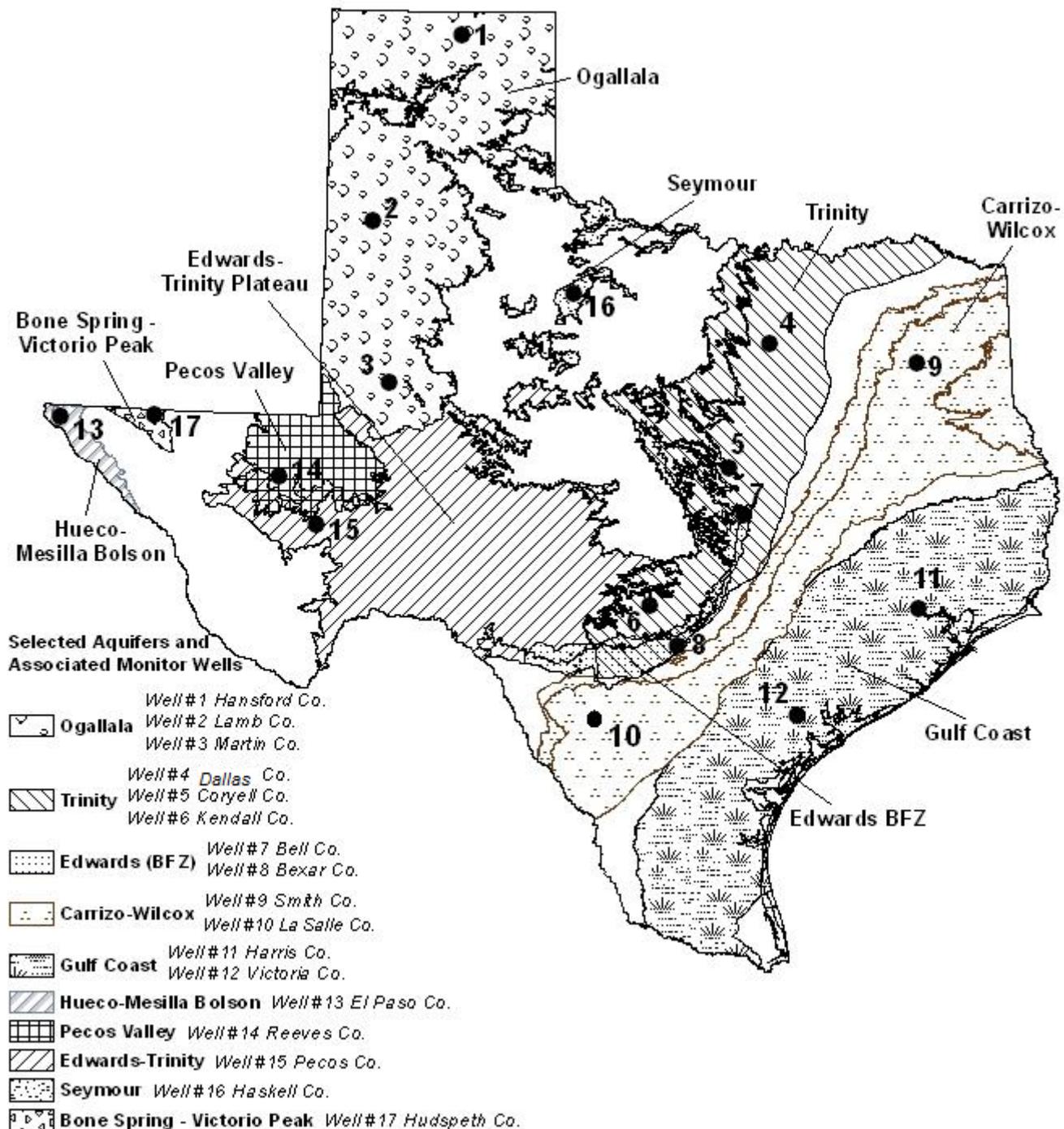
The computed 30-day mean flow status for 29 reporting index stations monitored this month is presented below:

Flow Status	Number of Stations
Normal to High (>30%)	26
Abnormally Low (20-30%)	3
Moderately Low (15-20%)	0
Severely Low (10-15%)	0
Extremely Low (5-10%)	0
Exceptionally Low (<5%)	0

Flows went up at 26 index stations and down at three stations. On a regional basis, flows in this month at index stations were near or above normal in all nine regions. Streamflow in the Lower Valley region is not monitored.



## FEBRUARY GROUNDWATER LEVELS IN OBSERVATION WELLS



February, 2016

Water-level measurements were available for all 17 key monitoring wells in the state. Water levels rose in seven monitoring wells since the beginning of February, ranging from 0.19 feet in the Martin County Ogallala Aquifer well to 12.15 feet in the LaSalle County Carrizo-Wilcox Aquifer well. Water levels declined in 10 monitoring wells, ranging from -0.08 feet in the Victoria County Gulf Coast Aquifer well to -4.78 feet in the Pecos County Edwards-Trinity (Plateau) Aquifer well. The J-17 well in San Antonio recorded a water level of 67.41 feet below land surface or 663.59 feet above mean sea level. There are no restrictions currently in place for the San Antonio portion of the Edwards Balcones Fault Zone BFZ, Aquifer with water levels at 3.59 feet above Stage I critical management levels.

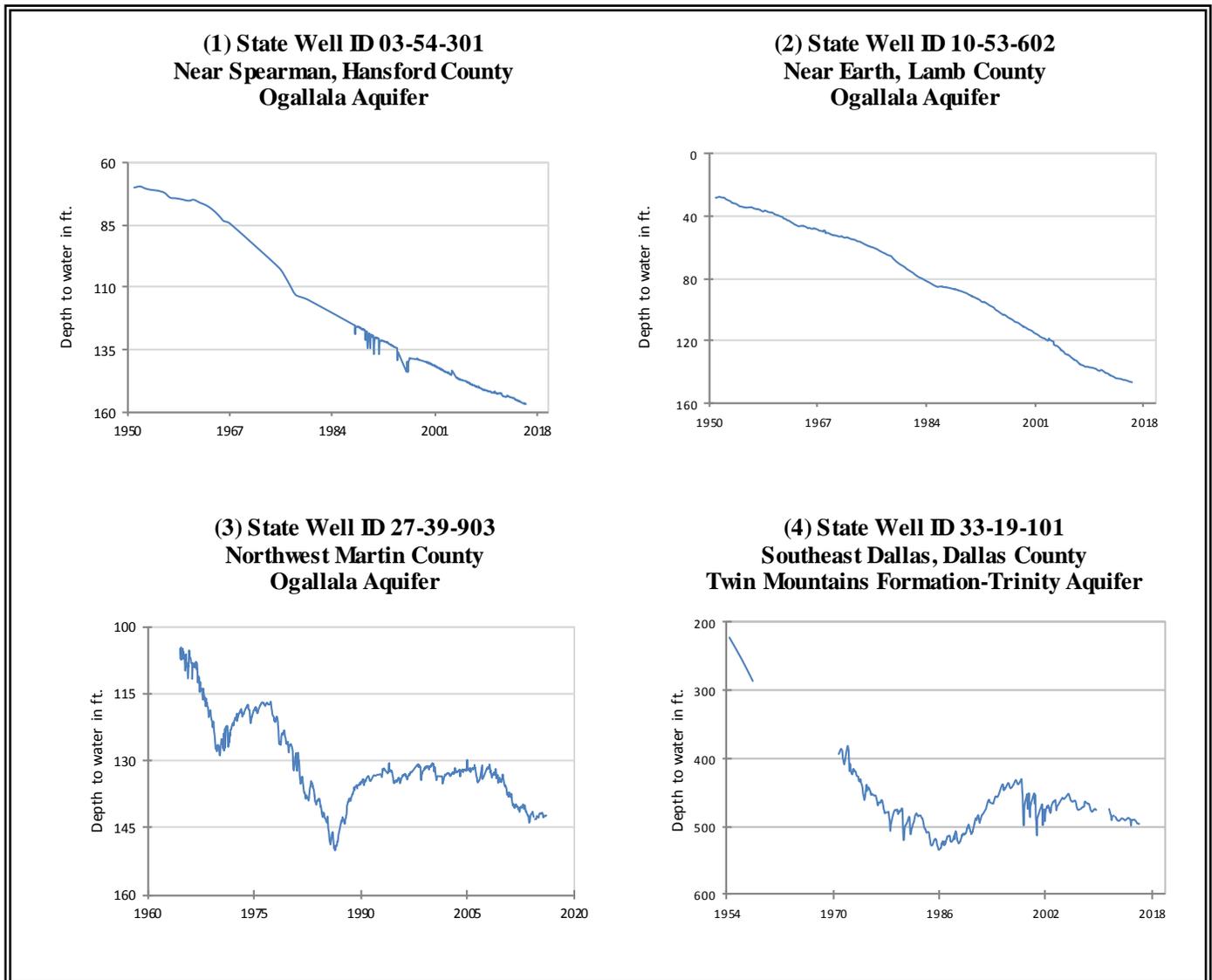
\*IDs used in this publication on the aquifer map to indicate the monitoring well location (IDs 1 - 17) are different than the TWDB's six- or seven-digit state well identification number.

**Water-level changes by month, year, and historical period-of-record in key monitoring wells in Texas**

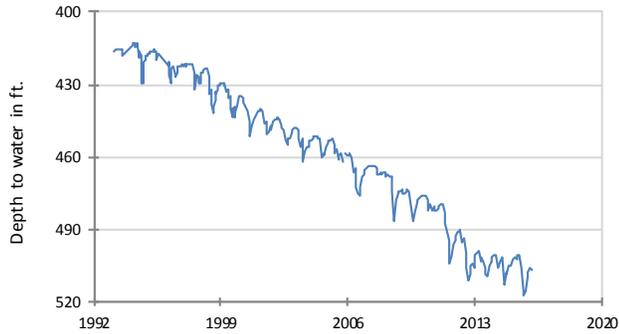
Monitoring Well	February	January	month change	year change	historical change	first measured
(1) Hansford 0354301	156.85	156.68	-0.17	-0.95	-86.73	1951
(2) Lamb 1053602	146.49	146.38	-0.11	-1.31	-118.34	1951
(3) Martin 2739903	142.2	142.39	0.19	-0.13	-37.31	1964
(4) Dallas 3319101	495.98	496.2	0.22	-5.39	-273.98	1954
(5) Coryell 4035404	506.46	506.11	-0.35	-4.24	-214.46	1955
(6) Kendall 6802609	117.64	117.26	-0.38	12.86	-57.64	1975
(7) Bell 5804816	120.41	119.33	-1.08	4.09	2.72	2008
(8) Bexar 6837203	67.41	64.41	-3	19.2	-20.77	1932
(9) Smith 3430907	433.3	434.18	0.88	1.03	-67.3	1987
(10) La Salle 7738103	462.51	474.66	12.15	31.21	-209.44	2003
(11) Harris 6514409	188.78	189.27	0.49	1.25	-53.28*	1956
(12) Victoria 8017502	35.36	35.28	-0.08	2.24	-1.36	1958
(13) El Paso 4913301	296.49	295.9	-0.59	-0.56	-64.59	1964
(14) Reeves 4644501	157.63	152.89	-4.74	-1.62	-65.54	1952
(15) Pecos 5216802	191.61	186.83	-4.78	-1.56	55.27	1976
(16) Haskell 2135748	46.67	46.89	0.22	2	-5.34	2002
(17) Hudspeth 4807516	134.49	135.21	0.72	-0.82	-30.57	1966

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

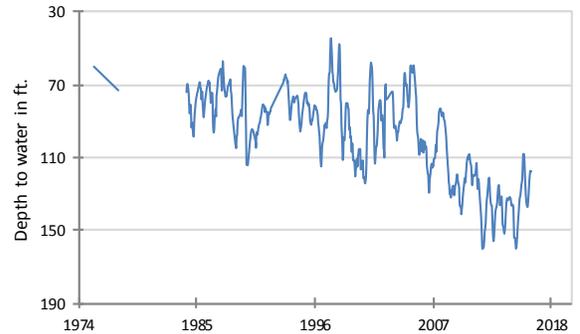
**FEBRUARY GROUNDWATER LEVELS IN OBSERVATION WELLS**



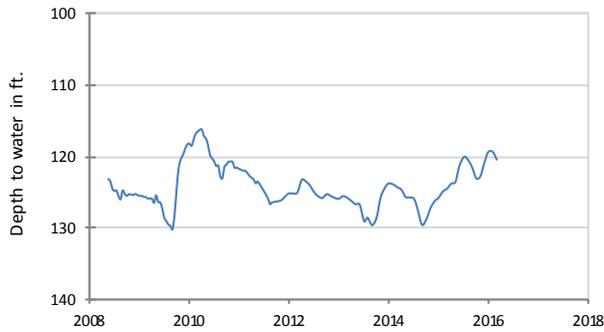
**(5) State Well ID 40-35-404  
Gatesville, Coryell County  
Hosston Formation-Trinity Aquifer**



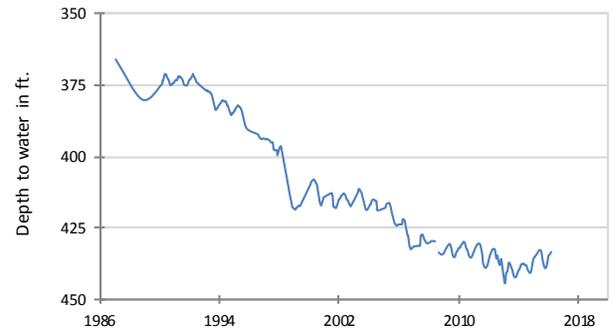
**(6) State Well ID 68-02-609  
Waring, Kendall County  
Cow Creek Formation-Trinity Aquifer**



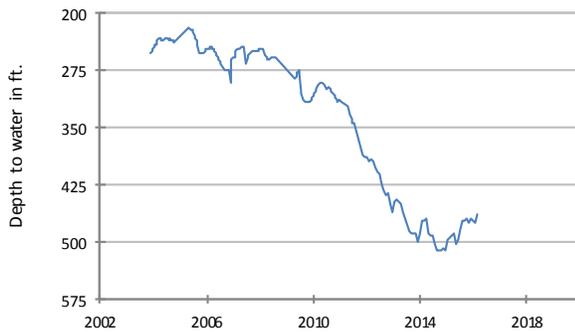
**(7) State Well ID 58-04-816  
Near Salado, Bell County  
Edwards (BFZ) Aquifer**



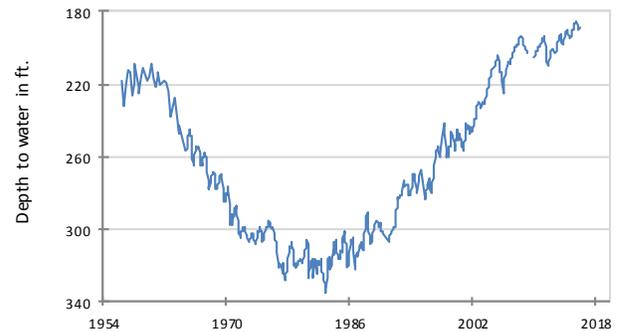
**(9) State Well ID 34-30-907  
Red Springs, Smith County  
Carrizo-Wilcox Aquifer**



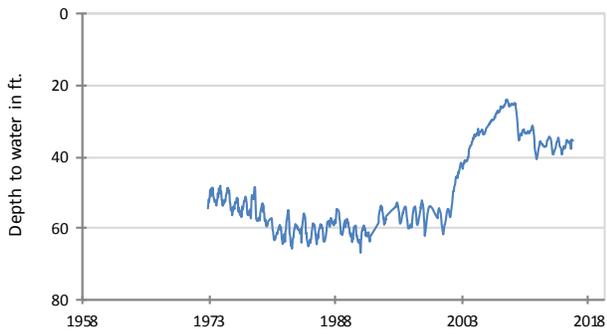
**(10) State Well ID 77-38-103  
Near Cotulla, La Salle County  
Carrizo-Wilcox Aquifer**



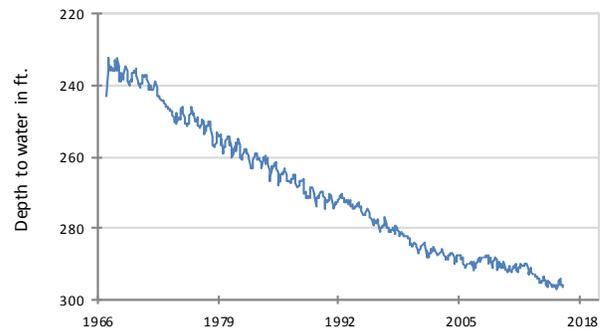
**(11) State Well ID 65-14-409  
Alief, Harris County  
Evangeline Formation-Gulf Coast Aquifer**



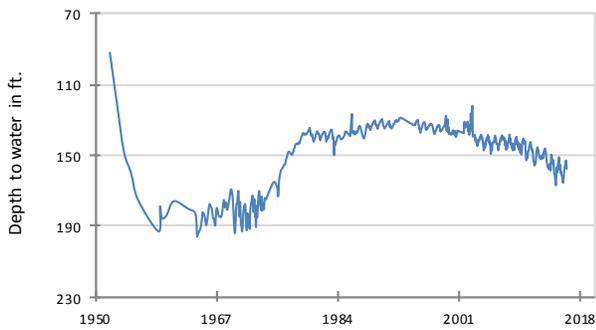
**(12) State Well ID 80-17-502**  
**Near Bloomington, Victoria County**  
**Lissie Formation-Gulf Coast Aquifer**



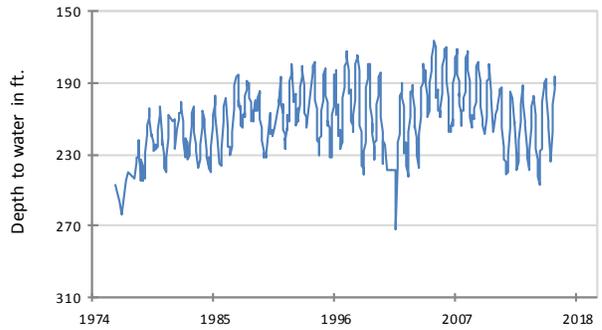
**(13) State Well ID 49-13-301**  
**El Paso, El Paso County**  
**Hueco-Mesilla Bolson Aquifer**



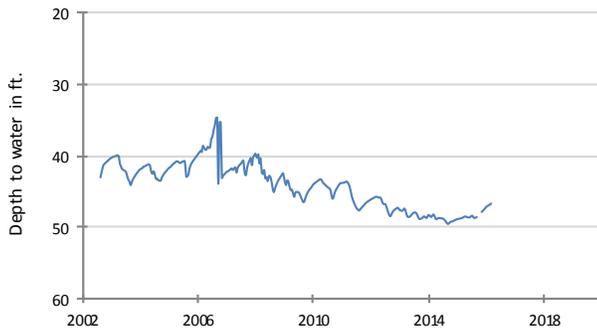
**(14) State Well ID 46-44-501**  
**Near Pecos, Reeves County**  
**Pecos Valley Aquifer**



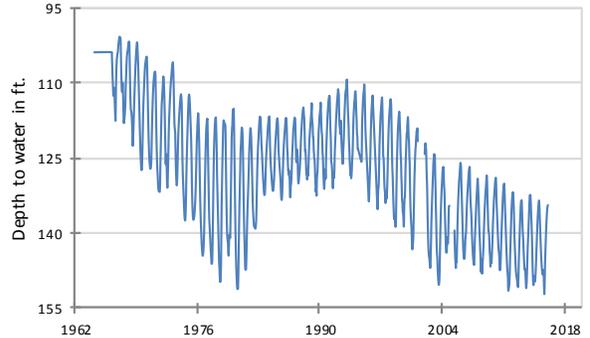
**(15) State Well ID 52-16-802**  
**Fort Stockton, Pecos County**  
**Edwards-Trinity (Plateau) Aquifer**



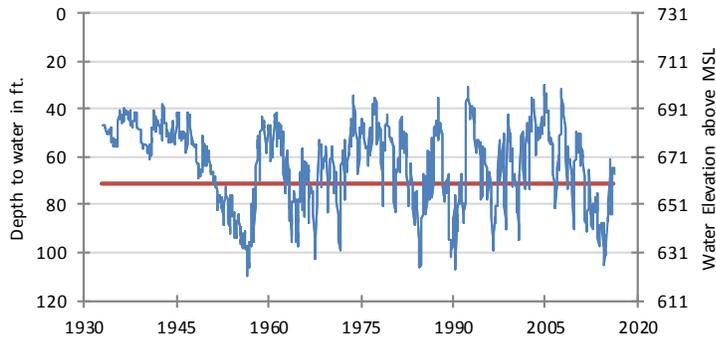
**(16) State Well ID 21-35-748**  
**Near O'Brien, Haskell County**  
**Seymour Aquifer**



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



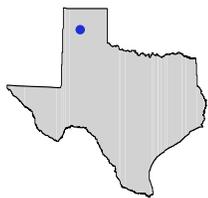
**(8) State Well ID 68-37-203 (J-17)  
In San Antonio, Bexar County  
Edwards Balcones Fault Zone (BFZ) Aquifer**



The late February water-level measurement in this Edwards Balcones Fault Zone (BFZ) Aquifer well, elevation 731 feet above mean sea level, was 67.41 feet below land surface, or 663.59 feet above mean sea level. This was 3 feet below last month's measurement, 19.2 feet above last year's measurement, and 20.77 feet below the initial measurement recorded in 1932.



**\*\*\* Water levels below the red line indicate periods in which Edwards Aquifer Authority Stage I drought restrictions are in effect. \*\*\***



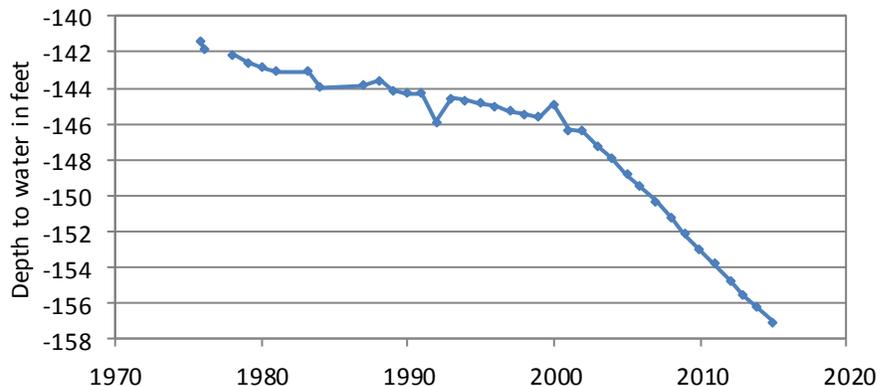
***HYDROGRAPH OF THE MONTH***

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

**Ogallala Aquifer**

Well # 0658403, 222 feet deep  
unused, northern Randall County

The Ogallala Aquifer is the largest aquifer in the United States and a major aquifer of Texas, underlying much of the High Plains region. The aquifer consists of sand, gravel, clay, and silt and has a maximum thickness of 800 feet. Water to the north of the Canadian River is generally fresh, with total dissolved solids typically less than 400 milligrams per liter; however, water quality diminishes to the south, where large areas contain total dissolved solids in excess of 1,000 milligrams per liter. High levels of naturally occurring arsenic, radionuclides, and fluoride in excess of the primary drinking water standards also are present. The aquifer provides significantly more water for users than any other aquifer in the state. The availability of this water is critical to the economy of the region, as approximately 95 percent of groundwater pumped is used for irrigated agriculture. Throughout much of the aquifer, groundwater withdrawals exceed the amount of recharge, and water levels have declined fairly consistently through time.



TWDB has measured water level in this well since the initial measurement of 141.42 feet below land surface in 1975. Water level in this well is indicative of the downward trend observed in much of the Ogallala Aquifer in the Texas Panhandle. While water level experienced a slight rebound in 1999 with a measurement of 144.9 feet below land surface, subsequent measurements have been lower than previous year's, resulting in the most recent measurement of 157.1 feet below land surface in 2014 as the lowest measurement in the period of record.