

RESERVOIR STORAGE

August 2015

At the end of the month, total storage in 114* of the state's major water supply reservoirs was at 25.7 million acre-feet**, or 82% of their total conservation storage capacity. This is 477,138 acre-feet less than a month ago and 5.8 million acre-feet more than the storage at this time last year.

Fifteen (15) reservoirs held 100% of conservation storage capacity, primarily in the North Central (10) and East (3) regions. Four (4) reservoirs remain below 10% full: Palo Duro (3%), Abilene (3%), Twin Buttes (6%), E.V. Spence (7%).

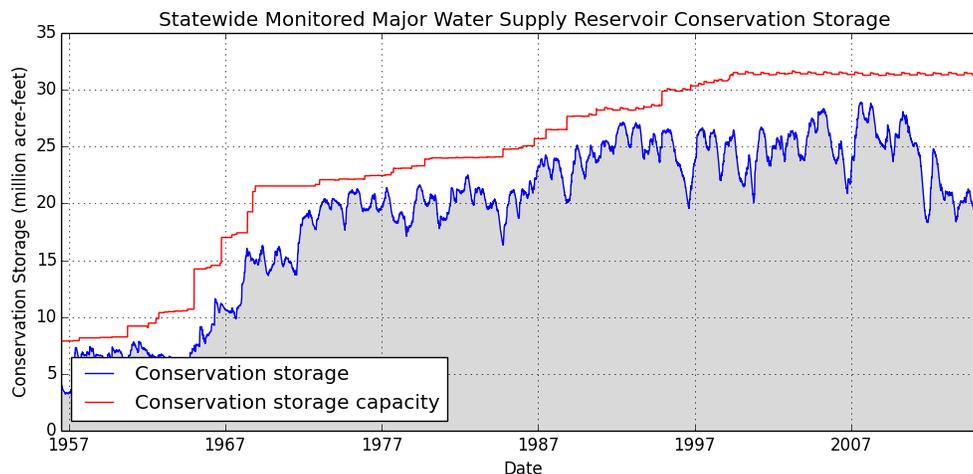
Total combined storage was greater than 70% in the East (96%), North Central (95%), Upper Coast (94%), South Central (84%) and Trans-Pecos (73%) regions. The regions with the lowest percentage storage were the High Plains (20%), Edwards Plateau (48%) and Southern (48%). Storage declined in 6 regions and increased in 3 regions over the past month.

Elephant Butte reservoir held 186,571 acre-feet, or 9% of storage capacity. This is 96,903 acre-feet less than a month ago.

* Nasworthy Reservoir has been added to and Lake Electra removed from our report beginning August 2015.

** 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 Aug		Change since end of July 2015		Change since end of Aug 2014	
		2015 (acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
HIGH PLAINS							
Palo Duro Reservoir	61,066	1,839	3	532	1	331	1
Meredith, Lake (Texas)	500,000	105,538	21	20,895	4	82,555	17
Meredith, Lake (Texas & Oklahoma)	779,556	105,538	14	20,895	3	82,555	11
Mackenzie Reservoir	46,450	7,769	17	-33	-0	4,253	9
White River Lake	29,880	10,588	35	-872	-3	9,477	32
TOTAL	637,396	125,734	20	20,522	3	96,616	15
LOW ROLLING PLAINS							
Greenbelt Lake	59,968	13,044	22	-471	-1	5,218	9
N. Fork Buffalo Crk Reservoir	15,400	11,562	75	-1,100	-7	11,459	74
Kemp, Lake	268,811	192,727	72	-13,192	-5	121,171	45
Millers Creek Reservoir	26,768	25,269	94	-1,499	-6	23,012	86
Alan Henry Reservoir	94,808	92,601	98	-2,207	-2	39,150	41
Stamford, Lake	51,570	47,027	91	-3,132	-6	40,910	79
J B Thomas, Lake	199,931	152,519	76	-4,730	-2	150,768	75
Fort Phantom Hill, Lake	70,030	44,743	64	-3,230	-5	19,673	28
Sweetwater, Lake	12,267	1,464	12	-130	-1	-379	-3
Colorado City, Lake	30,758	9,393	31	-570	-2	2,733	9
Champion Creek Reservoir	41,580	5,762	14	-81	-0	3,212	8
Abilene, Lake	7,900	266	3	1	0	-1	-0
Coleman, Lake	38,075	26,976	71	-1,133	-3	13,988	37
Hords Creek Lake	8,443	3,335	40	-166	-2	-22	-0
TOTAL	926,309	626,688	68	-31,640	-3	430,892	47
NORTH CENTRAL							
Nocona, Lake (Farmers Crk)	21,444	20,528	96	-916	-4	13,068	61
Hubert H Moss Lake	24,058	22,969	95	-691	-3	2,549	11
Texoma, Lake (Texas)	1,258,113	1,258,113	100	0	0	187,851	15
Texoma, Lake (Texas & Oklahoma)	2,525,281	1,258,113	50	0	0	187,851	7
*Pat Mayse Lake	113,683	110,320	97	-3,363	-3	17,468	15
Kickapoo, Lake	86,345	81,670	95	-4,499	-5	56,208	65
Arrowhead, Lake	230,359	223,314	97	-4,732	-2	175,894	76
Bonham, Lake	11,027	9,334	85	-917	-8	1,279	12
Crook, Lake	9,195	8,000	87	-510	-6	-934	-10
Amon G Carter, Lake	19,266	18,977	98	-289	-2	8,513	44
Ray Roberts, Lake	788,167	788,167	100	0	0	168,833	21
Jim Chapman Lake (Cooper)	260,332	241,611	93	-15,351	-6	127,271	49
Graham, Lake	45,288	41,796	92	-2,557	-6	22,590	50
*Lost Creek Reservoir	11,950	11,723	98	-109	-1	4,032	34
Bridgeport, Lake	366,236	344,804	94	-17,479	-5	197,314	54
Lewisville Lake	563,228	563,228	100	0	0	141,527	25
Lavon Lake	406,388	372,664	92	-33,724	-8	170,017	42
Hubbard Creek Reservoir	318,067	108,830	34	-7,365	-2	56,866	18
Possum Kingdom Lake	523,873	517,520	99	-6,353	-1	194,090	37
*Mineral Wells, Lake	6,760	6,481	96	-279	-4	2,897	43
Weatherford, Lake	17,812	15,517	87	-1,320	-7	5,003	28
Eagle Mountain Lake	179,880	168,121	93	-10,897	-6	54,268	30
Worth, Lake	33,495	29,238	87	-1,453	-4	6,575	20
Grapevine Lake	164,703	164,703	100	0	0	61,618	37
Ray Hubbard, Lake	452,040	421,635	93	-29,369	-6	135,921	30
New Terrell City Lake	8,583	8,095	94	-488	-6	943	11

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	Conservation Storage Capacity (acre-feet)	Conservation Storage end of Aug 2015 (acre-feet)	(%)	Change since end of July 2015 (acre-feet)	(%)	Change since end of Aug 2014 (acre-feet)	(%)
(North Central Continue)							
Palo Pinto, Lake	26,766	24,377	91	-1,738	-6	20,226	76
Benbrook Lake	85,648	72,004	84	-13,644	-16	12,305	14
Arlington, Lake	40,188	30,812	77	-7,353	-18	-54	-0
Joe Pool Lake	175,358	175,358	100	0	0	6,863	4
*Cisco, Lake	25,895	18,379	71	-675	-3	5,800	22
Leon, Lake	26,476	24,916	94	-1,293	-5	7,337	28
Granbury, Lake	125,756	125,452	100	-304	-0	43,091	34
Pat Cleburne, Lake	26,008	22,953	88	-1,705	-7	3,952	15
Waxahachie, Lake	10,780	9,078	84	-1,013	-9	369	3
Bardwell Lake	46,122	45,310	98	-812	-2	3,133	7
Proctor Lake	55,457	no data					
Whitney, Lake	553,344	524,372	95	-28,972	-5	141,150	26
Aquilla Lake	44,460	40,974	92	-2,723	-6	-619	-1
Navarro Mills Lake	49,827	48,470	97	-1,357	-3	3,521	7
*Halbert, Lake	6,033	4,993	83	-140	-2	1,076	18
Richland-Chambers Reservoir	1,087,839	1,078,435	99	-9,404	-1	326,886	30
*Brownwood, Lake	128,839	122,410	95	-4,952	-4	58,034	45
Waco, Lake	189,418	179,596	95	-7,883	-4	3,526	2
Limestone, Lake	208,014	184,286	89	-12,859	-6	-9,849	-5
Belton Lake	435,225	435,225	100	0	0	116,020	27
Stillhouse Hollow Lake	227,771	223,990	98	-3,781	-2	59,079	26
Georgetown, Lake	36,823	30,612	83	-5,318	-14	10,993	30
Granger Lake	50,779	50,779	100	0	0	1,342	3
Tawakoni, Lake	871,685	843,893	97	-23,358	-3	305,686	35
Mountain Creek, Lake	22,850	22,850	100	0	0	0	0
Squaw Creek, Lake	151,250	151,250	100	0	0	2,485	2
TOTAL	10,573,446	10,048,132	95	-282,092	-3	2,961,519	28
EAST							
Wright Patman Lake	231,496	231,496	100	0	0	0	0
*Sulphur Springs, Lake	17,747	15,620	88	-1,161	-7	-814	-5
Cypress Springs, Lake	66,756	62,709	94	-2,216	-3	-2,312	-3
Bob Sandlin, Lake	190,822	179,183	94	-8,367	-4	4,890	3
Caddo, Lake	29,898	29,898	100	0	0	8,616	29
Martin, Lake	75,116	68,828	92	-2,230	-3	-2,092	-3
Monticello, Lake	34,740	34,252	99	-101	-0	1,077	3
Fork Reservoir, Lake	605,061	573,992	95	-21,856	-4	86,899	14
O the Pines, Lake	268,566	266,335	99	-2,231	-1	14,632	5
Cedar Creek Reservoir in Trinity	644,686	605,920	94	-19,984	-3	101,417	16
Athens, Lake	29,503	27,706	94	-957	-3	35	0
Palestine, Lake	373,199	351,034	94	-11,674	-3	-7,552	-2
Tyler, Lake	72,073	65,951	92	-3,380	-4	-1,294	-1
Murvault, Lake	38,285	34,845	91	-1,536	-4	-2,042	-5
Jacksonville, Lake	25,670	24,390	95	-681	-3	-749	-3
Nacogdoches, Lake	39,522	35,577	90	-1,891	-5	-1,828	-5
Houston County Lake	17,113	15,693	92	-843	-5	-615	-4
Sam Rayburn Reservoir	2,857,077	2,822,257	99	-34,820	-1	75,848	3
Toledo Bend Reservoir (Texas)	2,236,450	2,042,530	91	-140,535	-6	-88,196	-4
Toledo Bend Reservoir (TX & LA)	4,472,900	2,042,530	46	-140,535	-3	-88,196	-2
*Livingston, Lake	1,785,348	1,785,348	100	0	0	26,717	1
B A Steinhagen Lake	66,961	64,450	96	6,371	10	3,176	5
Conroe, Lake	416,177	394,242	95	-10,724	-3	-10,530	-3
TOTAL	10,050,193	9,666,305	96	26,267	0	490,141	5

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

Name of Lake or Reservoir	Conservation Storage Capacity (acre-feet)	Conservation Storage end of Aug 2015 (acre-feet)	(%)	Change since end of July 2015 (acre-feet)	(%)	Change since end of Aug 2014 (acre-feet)	(%)
TRANS-PECOS							
**Red Bluff Reservoir	151,110	109,842	73	4,184	3	31,571	21
TOTAL	151,110	109,842	73	4,184	3	31,571	21
EDWARDS PLATEAU							
Oak Creek Reservoir	39,210	10,602	27	-911	-2	3,858	10
E V Spence Reservoir	517,272	38,217	7	-3,357	-1	30,424	6
O C Fisher Lake	115,742	12,846	11	-1,433	-1	11,615	10
*O H Ivie Reservoir	554,340	82,345	15	-9,409	-2	-12,976	-2
Twin Buttes Reservoir	182,454	11,327	6	-3,813	-2	1,578	1
Nasworthy	9,615	8,183	85	402	4	750	8
Brady Creek Reservoir	28,808	9,796	34	-581	-2	1,263	4
Buchanan, Lake	816,904	587,076	72	-16,176	-2	279,648	34
Inks, Lake	13,962	13,050	93	45	0	135	1
Lyndon B Johnson, Lake	115,249	110,514	96	-183	-0	-122	-0
*Amistad Reservoir (Texas)	1,840,849	1,152,372	63	-24,063	-1	169,072	9
*Amistad Reservoir (TX & Mexico)	3,275,532	1,152,372	35	-24,063	-1	169,072	5
TOTAL	4,234,405	2,036,328	48	-59,479	-1	485,245	11
SOUTH CENTRAL							
Travis, Lake	1,113,348	887,252	80	-36,830	-3	520,953	47
*Austin, Lake	23,972	22,772	95	-62	-0	46	0
Somerville Lake	147,104	147,104	100	0	0	7,716	5
Canyon Lake	378,781	370,359	98	-8,422	-2	71,966	19
Medina Lake	254,823	181,752	71	-10,342	-4	171,576	67
*Coleta Creek Reservoir	31,040	28,789	93	-1,641	-5	5,265	17
TOTAL	1,949,068	1,638,028	84	-57,297	-3	777,522	40
UPPER COAST							
Houston, Lake	120,686	120,686	100	0	0	1,215	1
Texana, Lake	159,566	143,958	90	-7,620	-5	4,695	3
TOTAL	280,252	264,644	94	-7,620	-3	5,910	2
SOUTHERN							
Choke Canyon Reservoir	695,262	256,044	37	-12,737	-2	64,441	9
Corpus Christi, Lake	256,961	230,179	90	-17,341	-7	89,475	35
*Falcon Reservoir (Texas)	1,551,007	706,186	46	-59,905	-4	372,234	24
*Falcon Reservoir (TX & Mexico)	2,646,817	706,186	27	-59,905	-2	372,234	14
TOTAL	2,503,230	1,192,409	48	-89,983	-4	526,150	21
STATE TOTAL	31,305,409	25,708,110	82	-477,138	-2	5,805,566	19
* 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	186,571	9	-96,903	-5	32,954	2

Note:

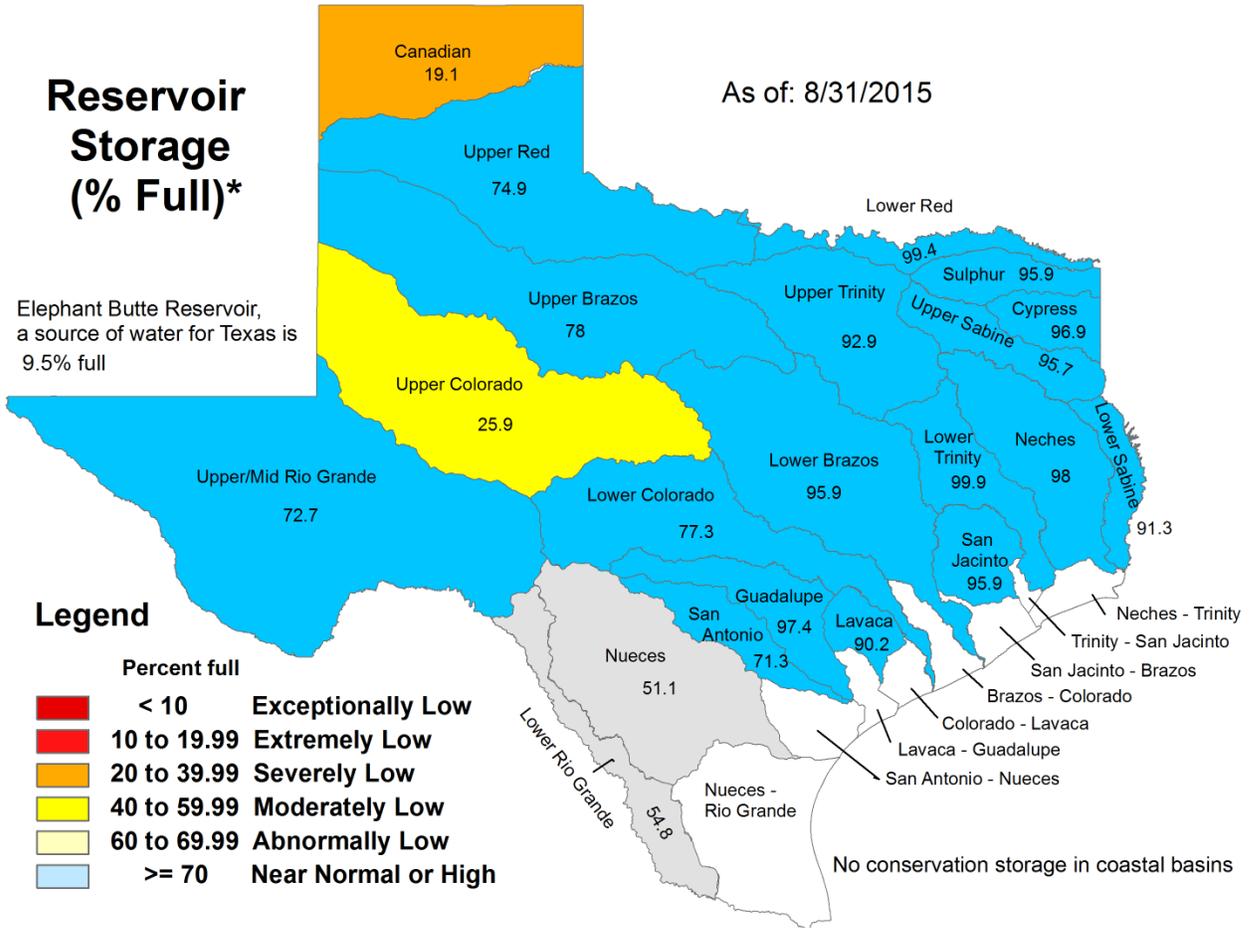
Conservation storage capacity is the space available to store water above the lowest outlet and below the top of conservation pool, or normal maximum operating level. Conservation storage refers to the volume of water held within the conservation storage space. Not included is any water in flood control 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.

AUGUST RESERVOIR CONDITIONS

Reservoir Storage (% Full)*

As of: 8/31/2015

Elephant Butte Reservoir, a source of water for Texas is 9.5% full



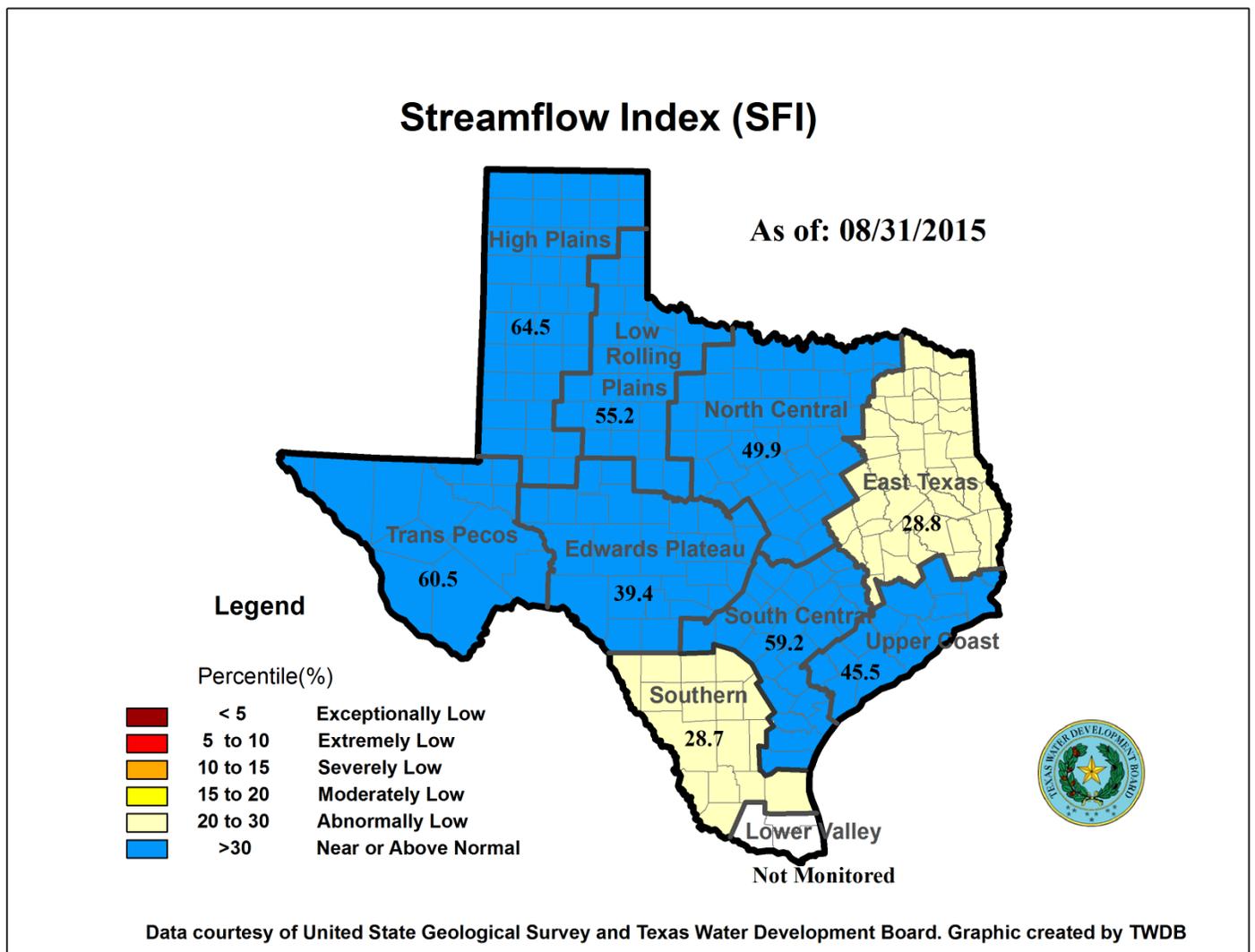
*Percent of combined conservation storage capacity of all major reservoirs for water supply in that basin (dead pools are excluded)

AUGUST STREAMFLOW CONDITIONS

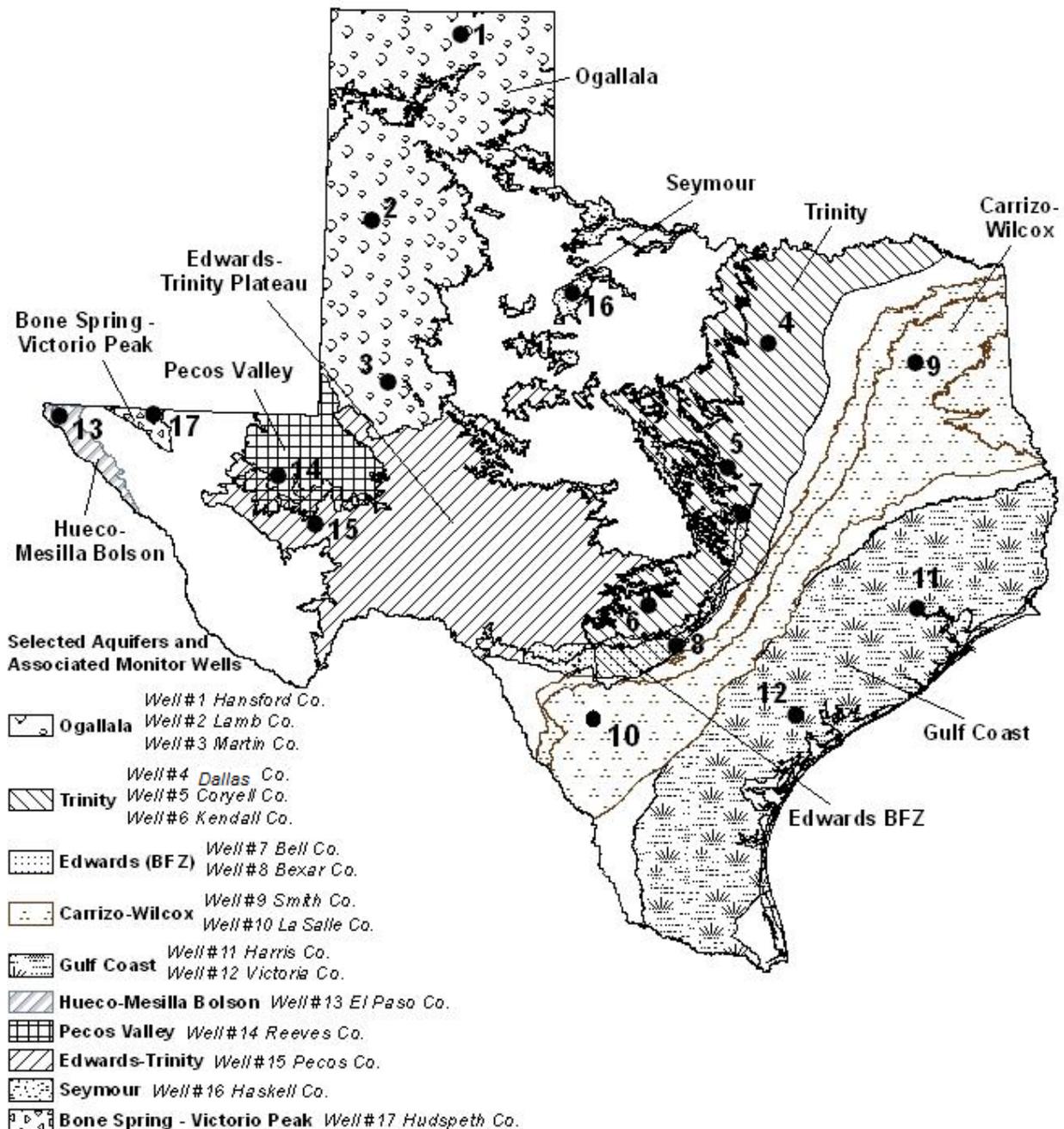
The computed 30-day mean flow status for 29 reporting index stations monitored this month is presented below:

Flow Status	Number of Stations
Normal to High (>30%)	22
Abnormally Low (20-30%)	5
Moderately Low (15-20%)	0
Severely Low (10-15%)	1
Extremely Low (5-10%)	0
Exceptionally Low (<5%)	1

On a regional basis, flows in this month at index stations were near or above normal in 7 regions and in abnormally low in 2 regions. Streamflow in the Lower Valley region is not monitored.



AUGUST 2015 GROUNDWATER LEVELS IN OBSERVATION WELLS



August, 2015

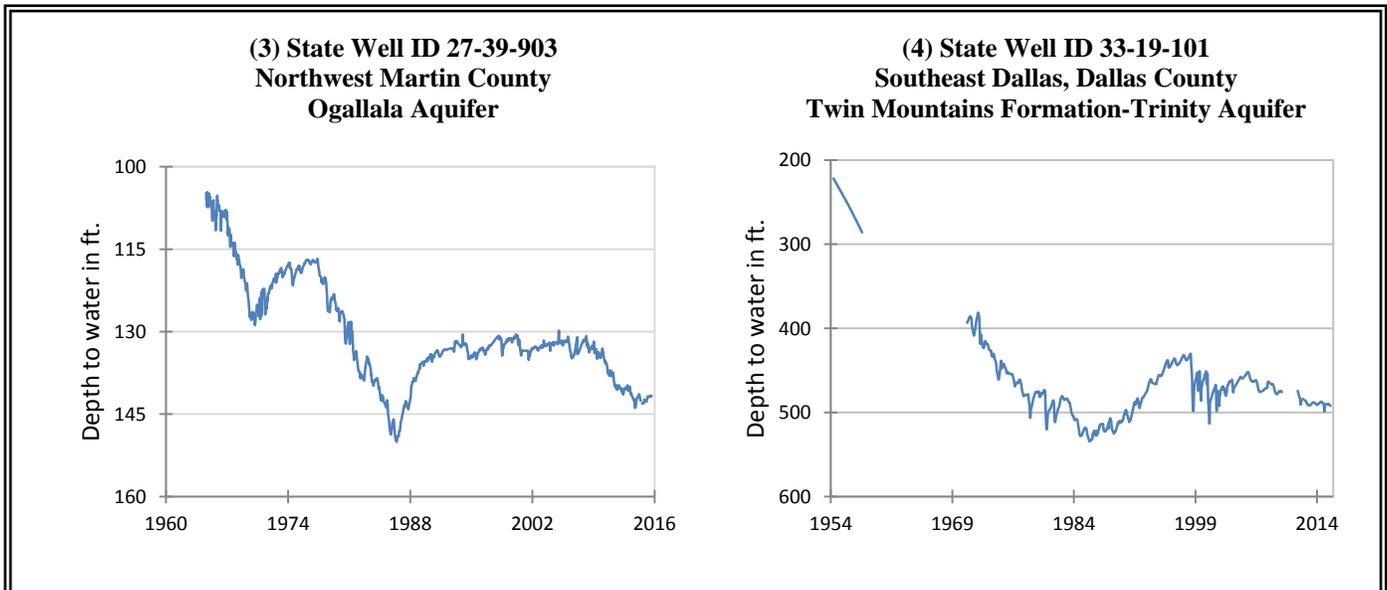
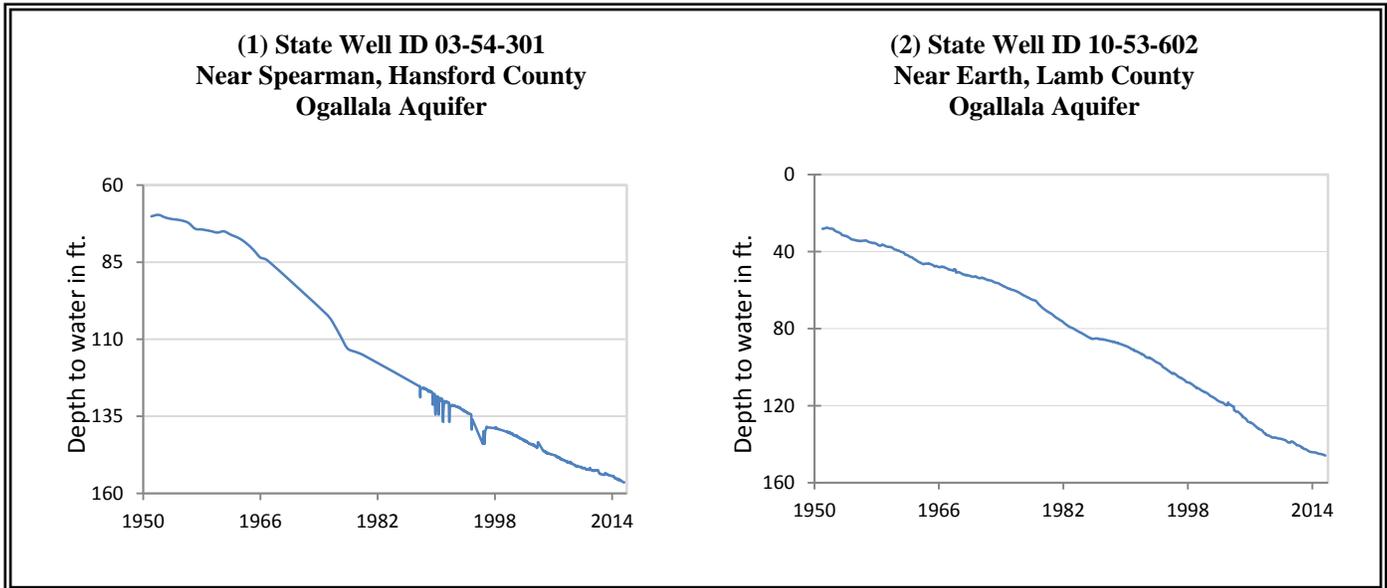
Water level measurements were available for all of the seventeen key monitoring wells in the state. Water levels rose in three of the monitoring wells since the beginning of August, ranging from 0.12 feet in the Haskell County Seymour Aquifer well to 0.8 feet in the Hudspeth County Bone Spring-Victorio Peak Aquifer well. Water levels declined in fourteen monitoring wells, ranging from 0.01 feet in the Hansford County Ogallala Aquifer well to 16.88 feet in the Pecos County Edwards Trinity Plateau Aquifer well. The J-17 well in San Antonio recorded a water level of 84.4 feet below land surface or 646.6 feet above mean sea level. Stage II restrictions are currently in place for the San Antonio portion of the Edwards BFZ, with water levels at 3.4 feet below Stage II critical management levels, in that segment of the Edwards Aquifer.

*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.

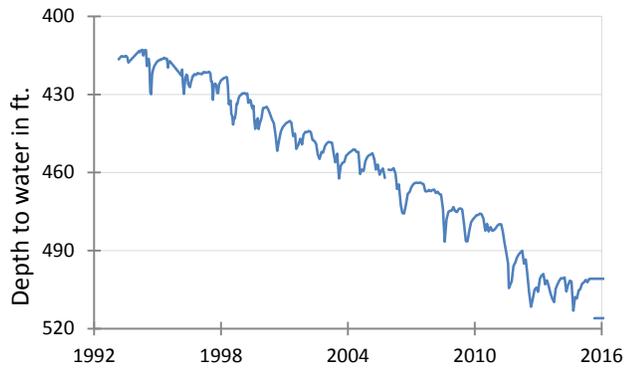
Monitoring Well	August	July	month change	year change	historical change	first measured
(1) Hansford 0354301	156.43	156.42	-0.01	-1.09	-86.31	1951
(2) Lamb 1053602	145.88	145.7	-0.18	-1.18	-117.73	1951
(3) Martin 2739903	141.76	141.61	-0.15	1.25	-36.87	1964
(4) Dallas 3319101	492.17	491.10	-1.07	-3.67	-270.17	1954
(5) Coryell 4035404	516.02	505.79	-10.23	-2.88	-224.02	1955
(6) Kendall 6802609	130.84	118.21	-12.63	23.28	-70.84	1975
(7) Bell 5804816	121.39	120.32	-1.07	8.13	1.74	2008
(8) Bexar 6837203	84.4	75.21	-9.19	20.6	-37.76	1932
(9) Smith 3430907	437.69	435.34	-2.35	2.44	-71.69	1987
(10) La Salle 7738103	471.85	471.55	-0.3	38.39	-218.78	2003
(11) Harris 6514409	187.43	185.5	-1.93	7.37	-51.93*	1956
(12) Victoria 8017502	36.06	35.73	-0.33	1.17	-2.06	1958
(13) El Paso 4913301	294.46	294.81	0.35	0.54	-62.56	1964
(14) Reeves 4644501	165.51	163.58	-1.93	1.1	-73.42	1952
(15) Pecos 5216802	231.81	214.93	-16.88	15.77	15.07	1976
(16) Haskell 2135748	48.56	48.68	0.12	0.95	-7.23	2002
(17) Hudspeth 4807516	147.55	148.35	0.8	2.25	-43.63	1966

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

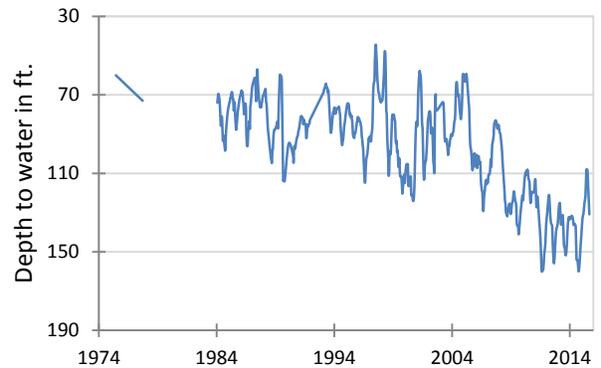
AUGUST GROUNDWATER LEVELS IN OBSERVATION WELLS



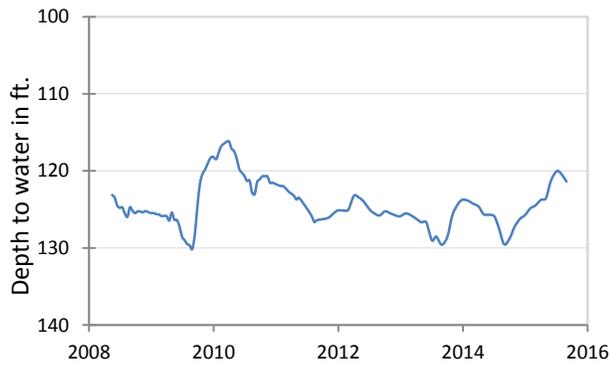
**(5) State Well ID 40-35-404
Gatesville, Coryell County
Hosston Formation-Trinity Aquifer**



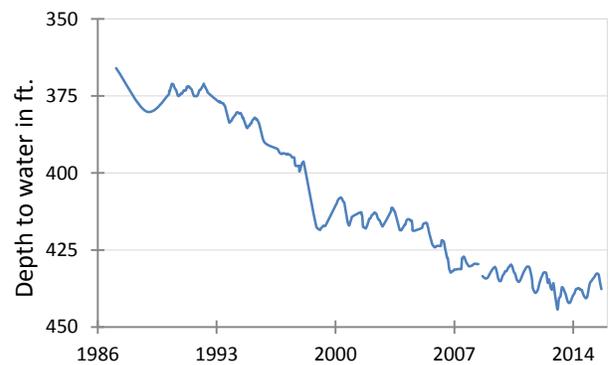
**(6) State Well ID 68-02-609
Waring, Kendall County
Cow Creek Formation-Trinity Aquifer**



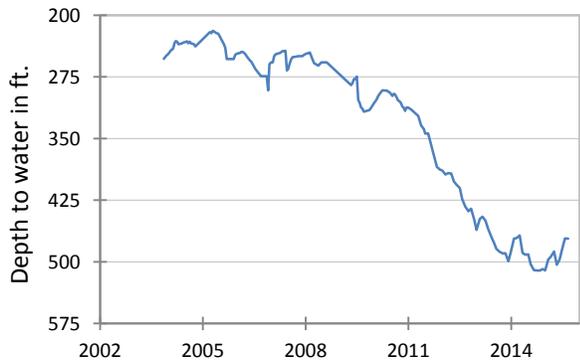
**(7) State Well ID 58-04-816
Near Salado, Bell County
Edwards (BFZ) Aquifer**



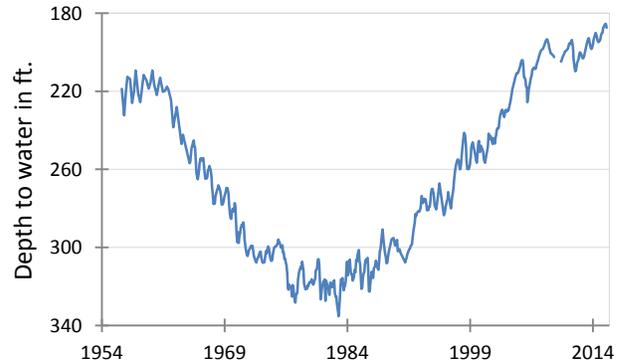
**(9) State Well ID 34-30-907
Red Springs, Smith County
Carrizo-Wilcox Aquifer**



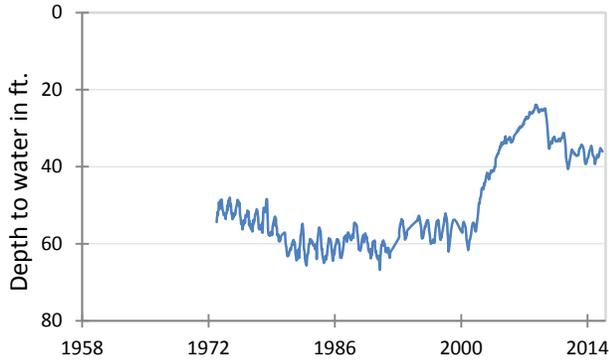
**(10) State Well ID 77-38-103
Near Cotulla, La Salle County
Carrizo-Wilcox Aquifer**



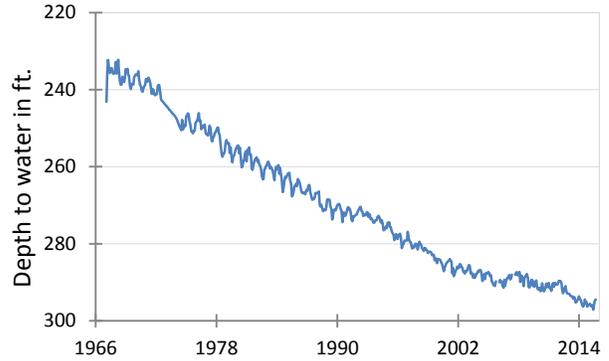
**(11) State Well ID 65-14-409
Alief, Harris County
Evangeline Formation-Gulf Coast Aquifer**



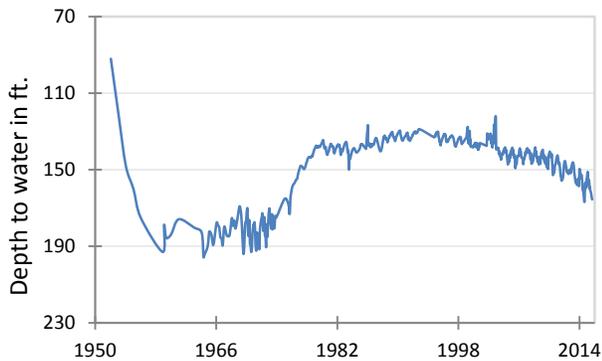
(12) State Well ID 80-17-502
Near Bloomington, Victoria County
Lissie Formation-Gulf Coast Aquifer



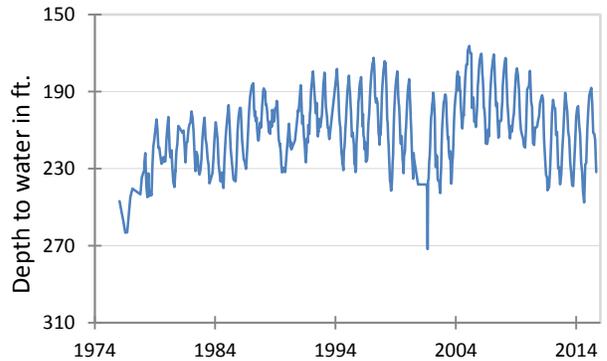
(13) State Well ID 49-13-301
El Paso, El Paso County
Hueco-Mesilla Bolson Aquifer



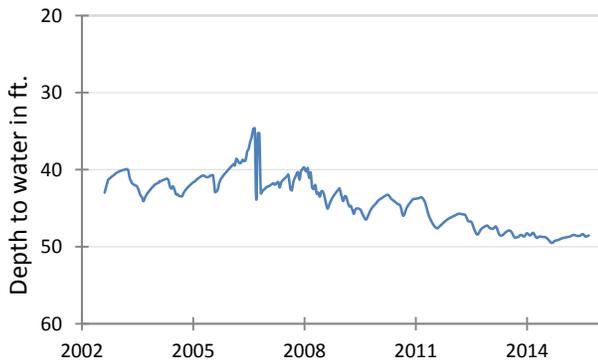
(14) State Well ID 46-44-501
Near Pecos, Reeves County
Pecos Valley Aquifer



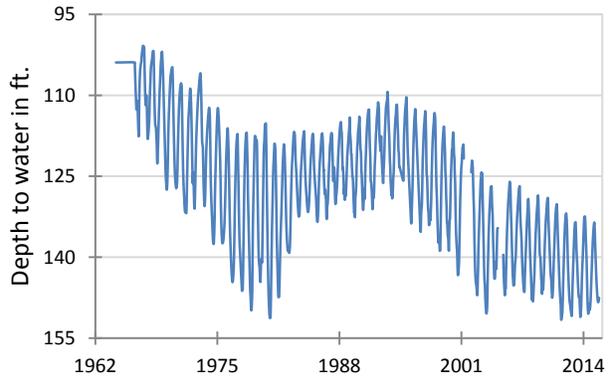
(15) State Well ID 52-16-802
Fort Stockton, Pecos County
Edwards-Trinity (Plateau) Aquifer



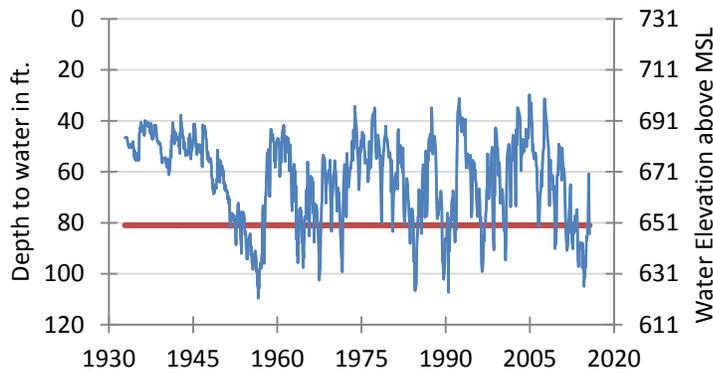
(16) State Well ID 21-35-748
Near O'Brien, Haskell County
Seymour Aquifer



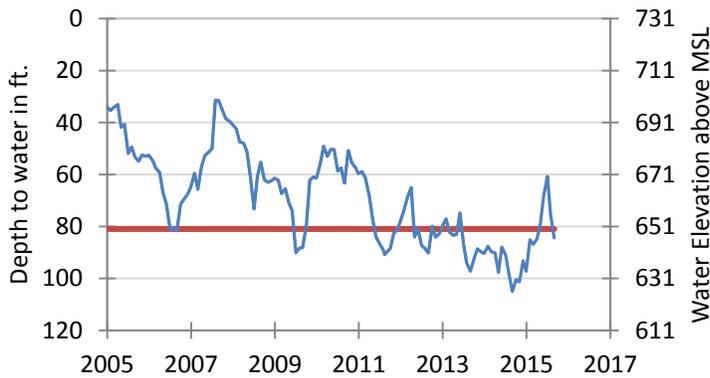
(17) State Well ID 48-07-516
Dell City, Hudspeth County
Bone Spring - Victorio Peak Aquifer



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

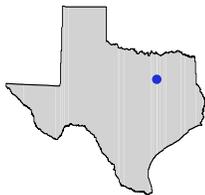


The late August water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above mean sea level, was 84.4 feet below land surface, or 646.6 feet above mean sea level. This was 9.19 feet below last month's measurement, 20.6 feet above last year's measurement, and 37.76 feet below the initial measurement recorded in 1932.



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

HYDROGRAPH OF THE MONTH

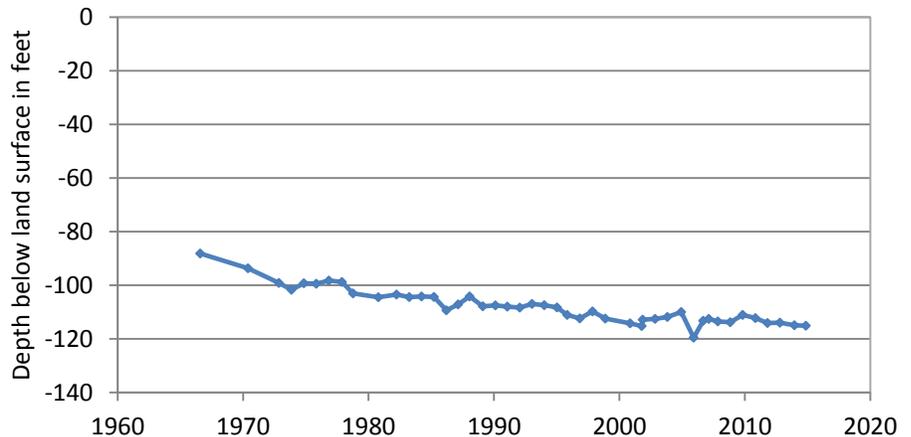


Each month this space features a new hydrograph (marked with the • symbol on the map) depicting different aquifers and different conditions in Texas.

Woodbine Aquifer

Well # 3247202, 216 feet deep
Domestic/Livestock, eastern Johnson County

The Woodbine Aquifer is a minor aquifer located in northeast Texas. The aquifer overlies the Trinity Aquifer and consists of sandstone interbedded with shale and clay that form three distinct water bearing zones. The lower zones of the aquifer typically yield the most water, whereas the upper zone yields limited water and tends to be very high in iron. In general, water to a depth of 1,500 feet is fresh, containing less than 1,000 milligrams per liter of total dissolved solids. Water at depths below 1,500 feet is slightly to moderately saline, containing from 1,000 to 4,000 milligrams per liter of total dissolved solids. The aquifer provides water for municipal, industrial, domestic, livestock, and small irrigation supplies. Large water level declines have moderated in the past decade as suppliers have switched to surface water sources.



The water level in this domestic and livestock well has gradually yet steadily declined from the initial measurement of 88.15 feet below land surface in 1966. The TWDB has been measuring this well since 1970. The lowest measurement was observed as 119.5 feet below land surface in 2005.

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