



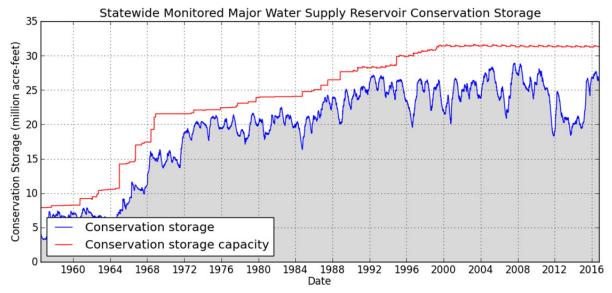
SEPTEMBER 2016 RESERVOIR STORAGE*

At the end of the month, total conservation storage in 114 of the state's major water supply reservoirs was at 26.54 million acre-feet or 87% of total conservation storage capacity. This is approximately 0.41 million acre-feet less than a month ago but 1.64 million acre-feet more than the storage at this time last year.

Twenty-seven (27) reservoirs held 100% of conservation storage capacity, primarily in the North Central (13) and East (5) regions. One (1) reservoir, Palo Duro (2%), remained below 10% full.

Total combined storage was at or above normal (storage \geq 70%) in the South Central (99%), Upper Coast (99%), North Central (96%), East (93%), Trans-Pecos (83%), and Low Rolling Plains (78%) regions. The region with the lowest percentage of storage was the High Plains (21%) region. Overall, storage increased in three regions but declined in six regions over the past month.

Elephant Butte reservoir held 131,768 acre-feet or 7% of storage capacity. This is 1,618 acre-feet less than a month ago.



^{*} Storage is based on 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 acrefeet or greater. Only the Texas share of storage in border reservoirs is counted.

CONSERVAT	TION STORAGE DAT	TA FOR SELECTE	ED MAJO	OR TEXAS RESI	ERVOIR	S				
Name of Lake or Reservoir	Conservation Storage Capacity	Conservation Storage end of September 2016		Change since end of August 2016		Change since end of September 2015				
	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)**	(%)			
HIGH PLAINS										
Palo Duro Reservoir	61,066	1,445	2	-207	-0	-121	-0			
Meredith, Lake (Texas)	500,000	119,492	24	-3,610	-1	15,799	3			
Meredith, Lake (Texas & Oklahoma)	779,556	119,492	15	-3,610	-0	15,799	2			
MacKenzie Reservoir	46,450	7,163	15	22	0	-422	-1			
White River Lake	29,880	7,812	26	-179	-1	-2,150	-7			
TOTAL	637,396	135,912	21	-3,974	-1	13,106	2			
Greenbelt Lake	59,968	W ROLLING PLA 16,608	INS 28	108	0	4,095	7			
N. Fork Buffalo Crk Reservoir	15,400	11,812	77	264	2	902	6			
Kemp, Lake	245,307	234,567	96	13,115	5	58,371	24			
Millers Creek Reservoir	26,768	26,768	100	2,693	10	2,652	10			
Alan Henry Reservoir	94,808	88,282	93	2,548	3	-2,128	-2			
Stamford, Lake	51,570	51,519	100	5,397	10	7,728	15			
J B Thomas, Lake	199,931	126,820	63	-225	-0	-21,513	-11			
Fort Phantom Hill, Lake	70.030	70,030	100	3,656	-0 5	-21,313 27,328	39			
Sweetwater, Lake	12,267	2,632	21	3,636 -46	-0	1,306	39 11			
Colorado City, Lake	30,758	8,031	26	657	2	-831	-3			
Champion Creek Reservoir	41,580	11,724	28	1,463	4	6,293	-5 15			
Abilene, Lake	7,900	7,900	100	53	1	7,634	97			
Coleman, Lake	38,075	36,352	95	515	1	10,497	28			
Hords Creek Lake	8,443	7,210	95 85	-170	-2	4,010	47			
TOTAL	902,805	700,255	78	30,028	3	106,344	12			
TOTAL		NORTH CENTRAI		30,020		100,544	12			
Nocona, Lake (Farmers Crk)	21,444	19,888	93	-208	-1	78	0			
Hubert H Moss Lake	24,058	22,039	92	-135	-1	-437	-2			
Texoma, Lake (Texas)	1,258,113	1,239,556	99	16,103	1	56,308	4			
Texoma, Lake (Texas & Oklahoma)	2,525,281	1,239,556	49	16,103	1	56,308	2			
*Pat Mayse Lake	113,683	105,786	93	-3,311	-3	no data	2			
Kickapoo, Lake	86,345	82,125	95 95	-800	-3 -1	3,988	5			
Arrowhead, Lake	230,359	216,111	94	5,830	3	1,814	1			
Bonham, Lake	11,027	8,851	80	-405	<i>-</i> 4	180	2			
Crook, Lake	9,195	8,081	88	-244	-3	303	3			
Amon G Carter, Lake	19,266	19,266	100	0	0	1,034	5			
Ray Roberts, Lake	788,167	776,872	99	-11,295	-1	-11,295	-1			
Jim Chapman Lake (Cooper)	260,332	221,513	85	-15,215	-6	-6,733	-3			
Graham, Lake	45,288	45,288	100	-13,213	0	5,371	12			
*Lost Creek Reservoir	11,950	11,836	99	-51	-0	381	3			
Bridgeport, Lake	366,236	366,236	100	0	0	42,505	12			
Lewisville Lake	563,228	550,876	98	-12,352	-2	-12,352	-2			
Lavon Lake	406,388	352,614	87	-16,240	-2 -4	9,225	2			
Hubbard Creek Reservoir	318,067	295,720	93	-1,285	-0	192,557	61			
Possum Kingdom Lake	523,873	516,385	93 99	-1,283 -6,019	-0 -1	12,250	2			
*Mineral Wells, Lake	6,760	6,760	100	-0,019	0	608	9			
	17,812									
Weatherford, Lake Eagle Mountain Lake	17,812	17,422 178,761	98 99	-303 -1,119	-2 -1	3,058 14,952	17 8			
Worth, Lake	33,495	30,858	99	-2,637	-1 -8	1,816	5			
Grapevine Lake	164,703	164,703	100	-2,637	-8 0	0	0			
Ray Hubbard, Lake	452,040	434,307	96	-2,258	-0	34,116	8			
New Terrell City Lake	432,040 8,583	434,307 8,146	96 95	-2,238 -239	-0 -3	492	6			
Palo Pinto, Lake	26,766	25,082	93 94	-239 -279	-3 -1	2,585	10			
	26,766 85,648									
Benbrook Lake		77,421	90 70	-4,787 4,145	-6 10	14,983	17 5			
Arlington, Lake	40,188	28,313	70 96	-4,145 3,690	-10 -2	-2,080 4,280	-5 2			
Joe Pool Lake *Cisco, Lake	175,358 25,895	168,052 25,895	96 100	-3,690 0	0	-4,280 8,242	-2 32			

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS										
	Conservation Conservation Storage			Change sine		Change since				
Name of Lake or Reservoir	Storage Capacity	end of September		end of August	•		eptember 2015			
	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)**	(%)			
		orth Central continue			_		_			
Leon, Lake	27,762	24,026	87	-639	-2	-574	-2			
Granbury, Lake	125,756	124,770	99	-986	-1	3,977	3			
Pat Cleburne, Lake	26,008	22,953	88	-1,184	-5	1,448	6			
Waxahachie, Lake	10,780	10,172	94	-512	-5	1,248	12			
Bardwell Lake	46,122	45,434	99	-688	-1	2,772	6			
Proctor Lake	54,762	50,546	92	-985	-2	-1,075	-2			
Whitney, Lake	553,344	489,493	88	-20,223	-4	-9,473	-2			
Aquilla Lake	43,243	43,243	100	0	0	5,690	13			
Navarro Mills Lake	49,827	49,827	100	0	0	4,562	9			
*Halbert, Lake	6,033	4,956	82	-356	-6	106	2			
Richland-Chambers Reservoir	1,087,839	1,069,926	98	-17,913	-2	27,424	3			
*Brownwood, Lake	128,839	121,470	94	-1,192	-1	3,793	3			
Waco, Lake Limestone, Lake	189,418	188,043	99	-1,375	-1	16,545	9			
<u> </u>	203,780	190,702	94	-6,307	-3	21,421	11			
Belton Lake Stillhouse Hollow Lake	435,225	435,225 227,771	100 100	0	0	9,770	2 3			
Georgetown, Lake	227,771 36,823	36,045	98	-778	-2	7,771 9,906	3 27			
Georgetown, Lake Granger Lake	51,822	51,822	100	-//8	0	9,906 246	0			
Tawakoni, Lake	871,685	804,643	92	-24,856	-3	-19,852	-2			
Mountain Creek, Lake	22,850	22,850	100	-24,630	0	-19,832	0			
Squaw Creek, Lake	151,250	151,250	100	0	0	0	0			
TOTAL	10,625,086	10,189,930	96	-143,078	-1	455,374	4			
TOTAL	10,023,000	EAST	70	110,070		133,671				
Wright Patman Lake	231,496	231,496	100	0	0	4,054	2			
*Sulphur Springs, Lake	17,747	15,522	87	-858	-5	691	4			
Cypress Springs, Lake	66,756	62,803	94	-1,105	-2	1,221	2			
Bob Sandlin, Lake	190,822	183,129	96	-3,737	-2	7,351	4			
Caddo, Lake	29,898	29,898	100	0	0	180	1			
Martin, Lake	75,726	69,016	91	-3,432	-5	4,203	6			
Monticello, Lake	34,740	33,910	98	-830	-2	-241	-1			
Fork Reservoir, Lake	605,061	558,927	92	-11,023	-2	4,222	1			
O the Pines, Lake	268,566	249,904	93	-18,662	-7	-2,521	-1			
Cedar Creek Reservoir in Trinity	644,686	601,533	93	-20,214	-3	17,986	3			
Athens, Lake	29,503	27,986	95	-587	-2	1,206	4			
Palestine, Lake	367,303	336,041	91	-12,611	-3	6,087	2			
Tyler, Lake	72,073	66,485	92	-1,662	-2	3,592	5			
Murvaul, Lake	38,285	35,210	92	-1,542	-4	2,071	5			
Jacksonville, Lake	25,670	25,600	100	-70	-0	1,781	7			
Nacogdoches, Lake	39,522	37,552	95	-1,599	-4	3,542	9			
Houston County Lake	17,113	17,113	100	0	0	1,864	11			
Sam Rayburn Reservoir	2,857,077	2,654,159	93	-111,118	-4	-22,808	-1			
Toledo Bend Reservoir (Texas)	2,236,450	1,920,420	86	-175,362	-8	5,600	0			
Toledo Bend Reservoir (TX & LA)	4,472,900	1,920,420	43	-175,362	-4	5,600	0			
*Livingston, Lake	1,785,348	1,785,348	100	0	0	0	0			
B A Steinhagen Lake	66,961	61,274	92	-2,142	-3	no data				
Conroe, Lake	410,988	407,541	99	-3,447	-1	24,963	6			
TOTAL	10,111,791	9,410,867	93	-370,001	-4	65,044	1			
TRANS-PECOS										
Red Bluff Reservoir	151,110	124,950	83	-4,149	-3	-6,984	-5 -			
TOTAL	151,110	124,950	83	-4,149	-3	-6,984	-5			
EDWARDS PLATEAU Ook Crook Posservoir 30 210 10 500 50 720 2 0 640 25										
Oak Creek Reservoir	39,210 517,272	19,590	50 10	720	2	9,640	25			
E V Spence Reservoir O C Fisher Lake	517,272 115,742	53,441 16,156	10	3,832 345	0	17,479 4,818	3 4			
*O H Ivie Reservoir	554,340	123,186	22	4,497	1	4,818	9			
O II IVIC RESELVUII	334,340	123,100	44	4,47/	1	+1,132	7			

CONSERVAT	ION STORAGE DAT	TA FOR SELECTE	D MAJ	OR TEXAS RESE	ERVOIR	S				
Name of Lake or Reservoir	Conservation Storage Capacity	Conservation Storage end of September 2016		Change since end of August 2016		Change since end of September 2015				
	(acre-feet)	(acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)**	(%)			
(Edwards Plateau continued)										
Twin Buttes Reservoir	182,454	17,337	10	813	0	7,124	4			
Nasworthy	9,615	8,036	84	-12	-0	no data				
Brady Creek Reservoir	28,808	16,937	59	2,755	10	7,782	27			
Buchanan, Lake	816,904	814,736	100	3,470	0	241,912	30			
Inks, Lake	13,962	12,937	93	60	0	-76	-1			
Lyndon B Johnson, Lake	115,249	110,331	96	-305	-0	-366	-0			
*Amistad Reservoir (Texas)	1,840,849	1,522,386	83	57,029	3	389,807	21			
*Amistad Reservoir (TX & Mexico)	3,275,532	1,522,386	46	57,029	2	389,807	12			
TOTAL	4,234,405	2,715,073	64	73,204	2	725,852	17			
	S	OUTH CENTRAL	,							
Travis, Lake	1,113,348	1,113,348	100	0	0	254,806	23			
*Austin, Lake	23,972	22,726	95	30	0	-92	-0			
Somerville Lake	147,104	147,104	100	0	0	650	0			
Canyon Lake	378,781	378,781	100	0	0	21,184	6			
Medina Lake	254,823	246,402	97	-5,277	-2	77,456	30			
*Coleto Creek Reservoir	31,040	27,182	88	-1,489	-5	-439	-1			
TOTAL	1,949,068	1,935,543	99	-6,736	-0	353,565	18			
		UPPER COAST				•				
Houston, Lake	120,686	120,686	100	0	0	0	0			
Texana, Lake	159,566	155,909	98	-3,473	-2	14,046	9			
TOTAL	280,252	276,595	99	-3,473	-1	14,046	5			
SOUTHERN										
Choke Canyon Reservoir	662,820	281,856	43	-1,874	-0	53,423	8			
Corpus Christi, Lake	256,961	217,886	85	6,594	3	0	0			
*Falcon Reservoir (Texas)	1,551,007	553,085	36	12,274	1	-142,774	-9			
*Falcon Reservoir (TX & Mexico)	2,646,817	553,085	21	12,274	0	-142,774	-5			
TOTAL	2,470,788	1,052,827	43	16,994	1	-89,351	-4			
STATEWIDE TOTAL										
STATEWIDE TOTAL	31,362,701	26,541,952	87	-411,185	-1	1,636,996	5			
Elephant Butte Reservoir	1,973,358	131,768	7	-1,608	-0	-36,572	-2			

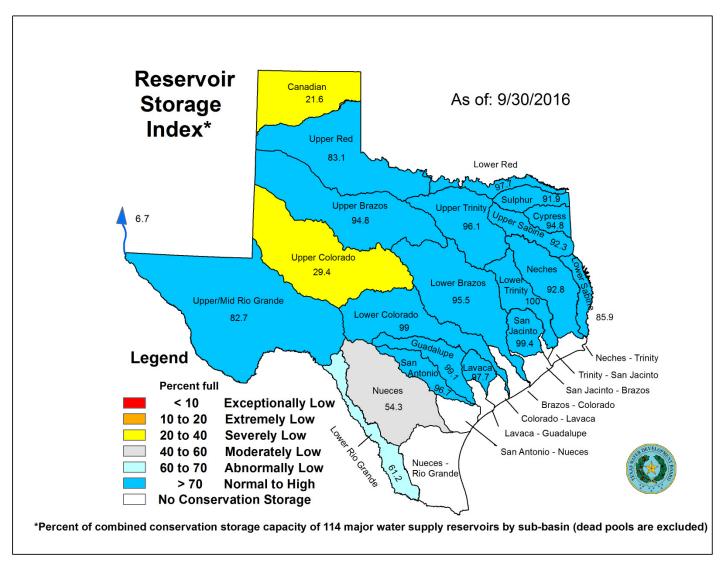
^{*} Conservation volume is used as conservation storage capacity because the dead storage is unknown.

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.

^{**}Monthly and yearly changes do not include reservoirs that did not have data in last monthly or last year, respectively.

SEPTEMBER 2016 RESERVOIR CONDITIONS



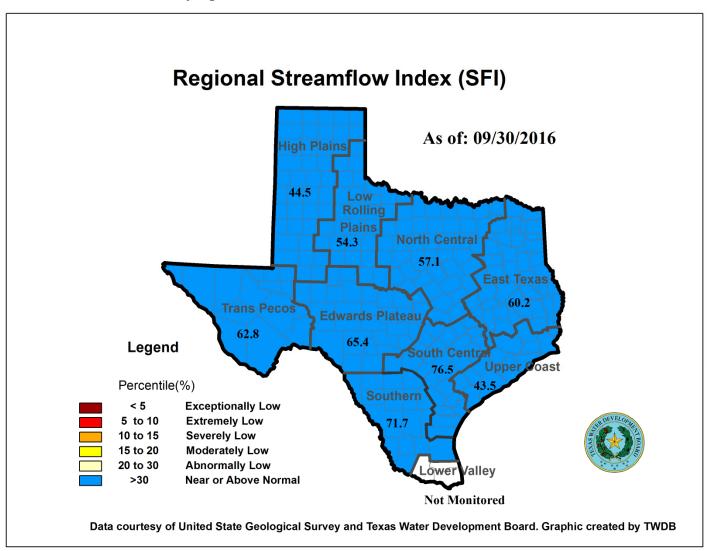
^{*}Reservoir Storage Index is defined as the percent full of conservation storage capacity.

SEPTEMBER 2016 STREAMFLOW CONDITIONS

The computed 30-day mean flow status for 29 reporting index stations monitored this month is presented below. Mean flow increased at nine index stations and decreased at 20 stations.

Streamflow Status	Number of Stations
Near or Above Normal (>30%)	24
Abnormally Low (20-30%)	0
Moderately Low (15-20%)	3
Severely Low (10-15%)	1
Extremely Low (5-10%)	0
Exceptionally Low (<5%)	1

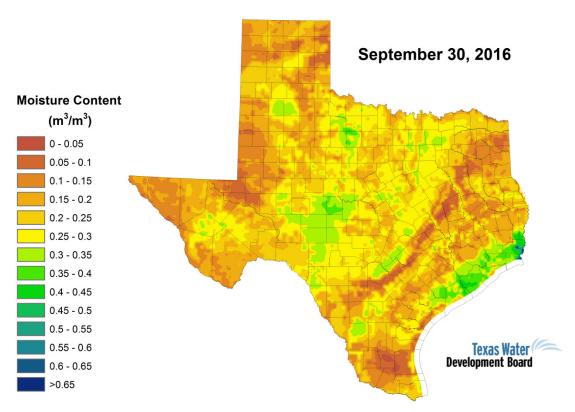
On a regional basis, as shown below, flows at index stations were near or above normal in all nine regions. Streamflow in the Lower Valley region is not monitored.



^{*}Streamflow Index is defined as the percentile flow that exceeds a given percent of observed flows.

SEPTEMBER 2016 SOIL MOISTURE CONDITIONS

Soil Moisture Condition

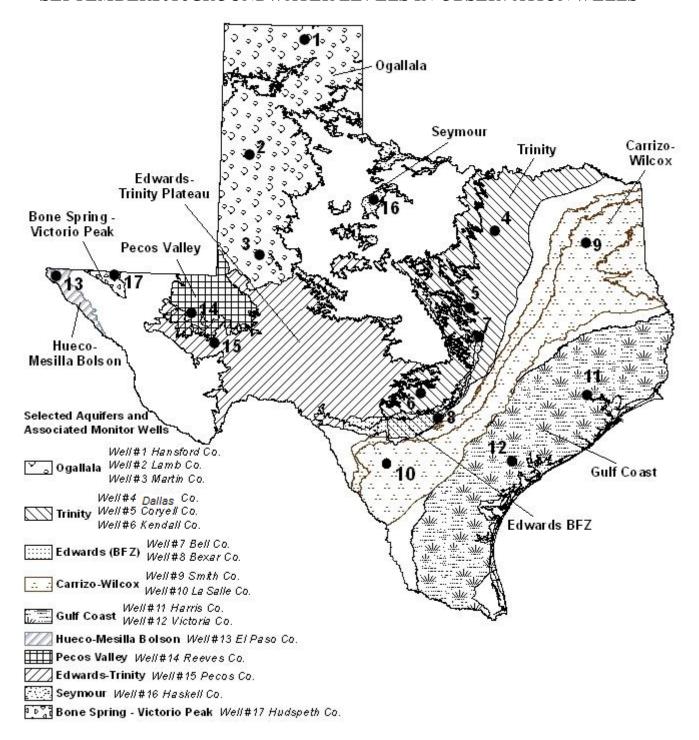


Data from NASA Soil Moisture Active Passive (SMAP) Level 4 - Model - Value Added Version 2

Soil moisture content is shown as volume of water per unit volume of bulk soil. Root zone: 0 to 1 meter depth.

The soil moisture pattern across the state for September showed higher amounts of soil moisture in southeastern, west-central, and north-central Texas, as depicted by soil moisture content values over 0.3. Much of the state had very low values of soil moisture with the lowest values (less than 0.1) being observed in South Texas, west Texas, the northern Panhandle, and along a belt extending from the southwest to the northeast, overlying the Carrizo-Wilcox outcrop.

SEPTEMBER2016GROUNDWATER LEVELS IN OBSERVATION WELLS



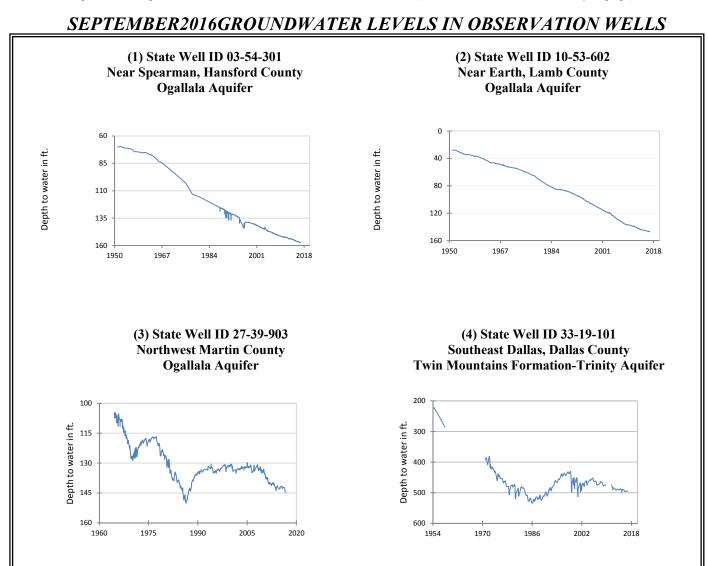
September2016

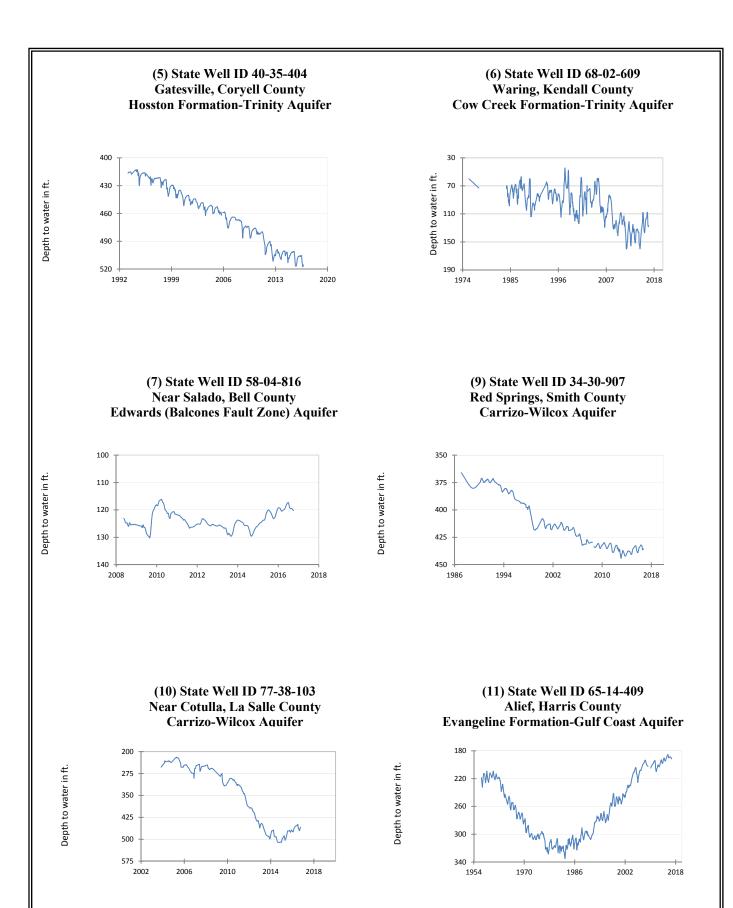
Water-level measurements were available for all 17 key monitoring wells in the state. Water levels rose in 10 monitoring wells since the beginning of September, ranging from an increase of 0.01 feet in the Haskell County Seymour Aquifer well to 11.71 feet in the La Salle County Carrizo-Wilcox Aquifer well. Water levels declined in seven monitoring wells, ranging from a decline of 0.03 feet in the Lamb County Ogallala Aquifer well to 0.81 feet in the Bell County Edwards (Balcones Fault Zone) Aquifer well. The J-17 well in San Antonio recorded a water level of 52.71 feet below land surface or 678.29 feet above mean sea level. There are no restrictions currently in place for the San Antonio portion of the Edwards (Balcones Fault Zone) Aquifer, with water levels at 18.29 feet above the Stage I critical management level.

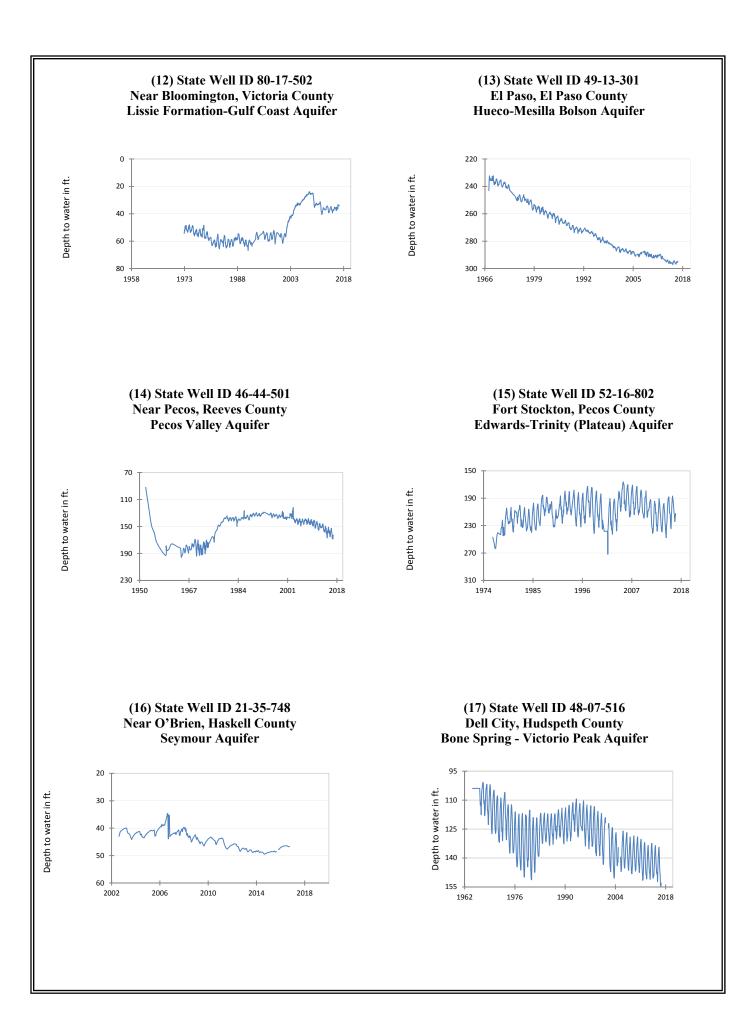
^{*}IDs used in this publication on the aquifer map to indicate the monitoring well location (IDs 1 - 17) are different than the TWDB's six- or seven-digit state well identification number.

Monitoring Well	September	August	Month Change	Year Change	Historical Change	First Measured
(1) Hansford 0354301	157.23	157.26	0.03	-0.66	-87.11	1951
(2) Lamb 1053602	146.91	146.88	-0.03	-0.90	-118.74	1951
(3) Martin 2739903	144.72	144.57	-0.15	-2.02	-39.83	1964
(4) Dallas 3319101	494.83	494.70	-0.13	-1.28	-272.83	1954
(5) Coryell 4035404	515.44	517.54	2.10	1.68	-223.44	1955
(6) Kendall 6802609	127.16	128.23	1.07	8.95	-67.16	1975
(7) Bell 5804816	120.25	119.44	-0.81	2.80	3.26	2008
(8) Bexar 6837203	56.71	56.21	3.50	31.60	-6.07	1932
(9) Smith 3430907	435.65	435.50	-0.15	3.29	-135.65	1987
(10) La Salle 7738103	458.83	470.54	11.71	10.44	-205.76	2003
(11) Harris 6514409	191.51	191.10	-0.45	-1.78	-56.01*	1947**
(12) Victoria 8017502	34.18	33.84	-0.34	1.97	-0.18	1958
(13) El Paso 4913301	294.59	295.04	0.45	-0.41	-62.69	1964
(14) Reeves 4644501	162.95	163.16	0.21	-0.99	-70.86	1952
(15) Pecos 5216802	212.27	219.73	7.46	22.26	34.61	1976
(16) Haskell 2135748	46.72	46.73	0.01	1.22	-3.72	2002
(17) Hudspeth 4807516	152.92	154.70	1.78	0.62	-49.00	1966

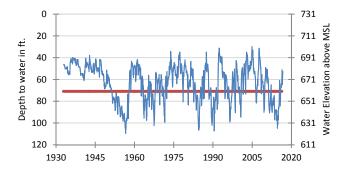
^{*}Change since the original measurement of 135.5 feet below land surface in 1947 (**measurement not shown on the hydrograph)







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





The late September water-level measurement in this Edwards (Balcones Fault Zone) Aquifer well, elevation 731 feet above mean sea level, was 52.71 feet below land surface, or 678.29 feet above mean sea level. This was 3.50 feet above last month's measurement, 31.60 feet above last year's measurement, and 6.07 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. ***

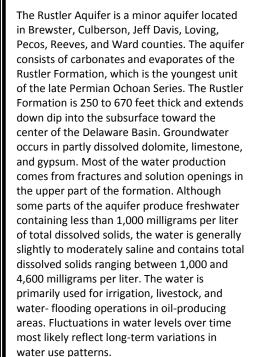


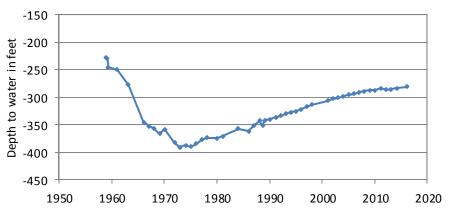
HYDROGRAPH OF THE MONTH

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

RustlerAquifer

Well # 4635501, 865 feet deep Irrigation, central Pecos County





The first recorded water-level measurement for this irrigation well was 228.6 feet below land surface in 1958, by the USGS. This was the highest recorded water-level measurement. The TWDB began measuring this well in 1963, with a water-level measurement of 277.3 feet below land surface, and has measured every year since. The lowest recorded water-level measurement was 391.25 feet below land surface, measured in 1972. Since this 1972 measurement, water level has been on a steady increase, rising 110.51 feet, probably due to less irrigation or technological advances in irrigation since that time.