



RESERVOIR STORAGE

March 2015

At the end of the month, total storage in 114 of the state's major water supply reservoirs was at 21.89 million acre-feet*, or 70% of their total conservation storage capacity. This is 1.24 million acre-feet more than a month ago and 1.63 million acre-feet more than the storage at this time last year.

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

Total combined storage was greater than 70% in the North Central (73%), Trans-Pecos (86%), Upper Coast (100%) and East (99%) regions. The regions with the lowest percentage storage were the High Plains (5%) and Low Rolling regions (32%). Storage declined in 1 region and increased in 7 regions and remained unchanged in 1 region over the past month.

Elephant Butte reservoir held 367,162 acre-feet, or 19% of storage capacity. This is 39,306 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.

or Reservoir Storage Capacity (acre-feet) Storage end of Mar 2015 (acre-feet) end of Feb 2015 end of Mar 20 (acre-feet) HGH PLAINS 2015 (acre-feet) (%) (acre-feet)		
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NOCONA, LAKE (Farmers Crk) 21,444 6,997 33 360 2 -1,704	-8	
Hubert H Moss Lake 24.058 24.004 100 2.854 12 3.156	13	
Texoma, Lake (Texas) 1,258,113 1,136,608 90 44,412 4 159,703 Texoma, Lake (Texas & 1 <td< td=""><td>13</td></td<>	13	
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*Pat Mayse Lake 113.683 113.683 100 1.742 2 27.620	24	
Kickapoo, Lake 86.345 24.958 29 681 1 -1.448	-2	
Arrowhead, Lake 230,359 45,990 20 2,357 1 -10,333	-4	
Bonham, Lake 11.027 10.942 99 2.570 23 1.957	18	
Crook. Lake 9,195 9,195 100 0 0 365	4	
Amon G Carter, Lake 19.266 10.866 56 1.212 6 1.980	10	
Ray Roberts, Lake 788,167 638,450 81 44,030 6 58,784	7	
Jim Chapman Lake (Cooper) 260.332 223.804 86 105.094 40 139.836	54	
Graham, Lake 45.288 17.166 38 211 0 -5.515	-12	
*Lost Creek Reservoir 11.950 7.358 62 188 2 -1.001	-8	
Bridgeport, Lake 366,236 139,997 38 1.685 0 -18,097	-5	
Lewisville Lake 563.228 457.903 81 51.419 9 87.593	16	
Lavon Lake 406.388 318.385 78 98.601 24 123.278	30	
Hubbard Creek Reservoir 318.067 40.230 13 -1.576 -0 -30.518	-10	
Possum Kinadom Lake 540.340 341.768 63 3.867 1 -3.210	-1	
*Mineral Wells, Lake 6,760 3.468 51 26 0 -469	-7	
Weatherford, Lake 17,812 10,557 59 -132 -1 113	1	
Eagle Mountain Lake 179,880 104,658 58 6.041 3 -17.997	-10	
Worth, Lake 33,495 22,837 68 260 1 461	1	
Grapevine Lake 164,703 109,565 67 8,344 5 3,625	2	

337,252

8,583

75

100

40,428

797

9

9

30,280

2,138

Ray Hubbard, Lake

New Terrell City Lake

452,040

8,583

7

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CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVOIRS

CONSERVATIO	N STORAGE DATA	FOR SELECTED MA	JOR TE	XAS RESERV	OIRS		
Name of Lake	Conservation	Conservation		Change since	e	Change sinc	e
or Reservoir	Storage Capacity	Storage end of Mar	(2.()	end of Feb 20	015	end of Mar 2	2014
	(acre-feet)	2015 (acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)
(North Central Continue)							
Palo Pinto, Lake	26,827	2,435	9	183	1	-4,692	-17
Benbrook Lake	85,648	63,648	74	2,140	2	-3,674	-4
Arlington, Lake	40,188	35,830 89		3,409	8	2,230	6
Joe Pool Lake	175,358	175,358 100		6,273	4	10,260	6
*Cisco, Lake	25,895	11,845 46		0	0	-2,386	-9
Leon, Lake	26,476	16,485	62	282	1	-4,618	-17
Granbury, Lake	128,046	75,654	59	4,827	4	6,780	5
Pat Cleburne, Lake	26,008	18,793	72	1,203	5	2,922	11
Waxahachie, Lake	10,780	10,505	97	1,633	15	1,356	13
Bardwell Lake	46,122	46,122	100	5,867	13	9,577	21
Proctor Lake	55,457	16,381	30	288	1	-8,779	-16
Whitney, Lake	553,344	374,376	68	14,903	3	43,404	8
Aquilla Lake	44,460	44,460	100	6,546	15	12,358	28
Navarro Mills Lake	49,827	49,827	100	6,621	13	1	0
*Halbert, Lake	6,033	5,340	89	506	8	299	5
Richland-Chambers Reservoir	1,087,839	836,348	77	143,469	13	45,284	4
*Brownwood, Lake	128,839	62,024	48	41	0	-7,941	-6
Waco, Lake	189,567	183,396	97	14,737	8	13,128	7
Limestone, Lake	208,014	208,014	100	369	0	369	0
Belton Lake	435.225	304.850	70	8.489	2	-22.594	-5
Stillhouse Hollow Lake	227.771	152.113	67	4,429	2	-12.558	-6
Georgetown, Lake	36.823	24.956	68	-602	-2	3,888	11
Granger Lake	50,779	50 779	100	0	0	0	0
Tawakoni, Lake	871.685	643,782	74	108,601	12	93,915	11
Mountain Creek, Lake	22.850	22.850	100	0	0	0	0
Squaw Creek Lake	151 250	147 177	97	-31	-0	-155	-0
ΤΟΤΑΙ	10 647 870	7 748 572	73	749 654	° 7	728 971	7
FAST	10,047,070	1,140,012	10	140,004	,	720,071	,
Wright Patman Lake	122 593	122 593	100	0	0	0	0
*Sulphur Springs Lake	17 747	17 747	100	0	0	0	0
Cypress Springs Lake	66 756	66 756	100	0	0	0	0
Bob Sandlin Lake	100,730	190.822	100	3 785	2	24 108	13
Caddo Lake	20 808	20 808	100	0,705	0	24,100	0
Martin Lake	29,090	29,090	100	0	0	0	0
Monticello Lake	24 740	24 740	100	0	0	0	0
Fork Reservoir Lake	54,740 605.061	520 001	20	76 674	12	20.275	5
O the Pines Lake	241 262	241 262	100	10,014	0	0	0
Codar Crock Posarvoir in Trinit	241,303	241,303	100	122.024	10	101 704	10
Athons Lake	y 044,000	044,032	100	122,024	19	121,734	19
Alleris, Lake	29,435	29,430	100	427	1	0	0
Tyler Leke	373,199	373,199	100	0	0	0	0
Nurvey Lake	73,101	73,101	100	0	0	1,131	2
	38,285	38,285	100	0	0	0	0
	25,670	25,670	100	0	0	0	0
Nacogdoches, Lake	39,522	39,522	100	695	2	66	0
Houston County Lake	17,113	17,113	100	0	0	0	0
Sam Rayburn Reservoir	2,857,077	2,857,077	100	5,625	0	298,593	10
Telede Bend Reservoir (Texas)	2,245,752	2,245,752	100	186,714	8	168,337	7
I Oledo Bend Reservoir (IX & L	A) 4,472,900	2,245,752	50	186,714	4	168,337	4
[°] Livingston, Lake	1,785,348	1,785,348	100	0	0	0	0
B A Steinnagen Lake	66,961	54,737	82	1,939	3	-10,963	-16
Conroe, Lake	416,177	416,177	100	2,778	1	10,240	2
IOTAL	9,996,482	9,908,534	99	400,661	4	643,521	6

CONSERVATION STORAGE DATA FOR SELECTED MAJOR TEXAS RESERVO	IRS
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Name of Lake or Reservoir	onservationConservationtorage CapacityStorage end of Mar			Change since end of Feb 20	e 015	Change sind end of Mar	e since Mar 2014	
	(acre-feet)	2015 (acre-feet)	(%)	(acre-feet)	(%)	(acre-feet)	(%)	
TRANS-PECOS	. ,							
**Red Bluff Reservoir	151,110	130,205	86	-7,676	-5	61,260	41	
TOTAL	151,110	130,205	86	-7,676	-5	61,260	41	
EDWARDS PLATEAU								
Oak Creek Reservoir	39,210	5,865	15	22	0	-1,781	-5	
E V Spence Reservoir	517,272	9,650	2	-297	-0	-4,845	-1	
O C Fisher Lake	119,445	1,282	1	-3	-0	533	0	
*O H Ivie Reservoir	554,340	75,783	14	-1,574	-0	8,454	2	
Twin Buttes Reservoir	182,454	6,418	4	579	0			
Brady Creek Reservoir	28,808	7,685	27	67	0	-1,183	-4	
Buchanan, Lake	860,607	310,848	36	10,080	1	-11,378	-1	
Inks, Lake	13,962	12,840	92	30	0	-82	-1	
Lyndon B Johnson, Lake	115,056	111,002	96	-61	-0	61	0	
*Amistad Reservoir (Texas)	1,840,849	1,154,778	63	6,144	0	253,432	14	
*Amistad Reservoir (TX & Mexic	;0) 3,275,532	1,154,778	35	6,144	0	253,432	8	
TOTAL	4,272,003	1,696,151	40	14,987	0	243,211	6	
SOUTH CENTRAL								
Travis, Lake	1,113,348	400,958	36	21,396	2	6,595	1	
*Austin, Lake	23,972	23,376	98	527	2	388	2	
Somerville Lake	147,104	147,104	100	0	0	25,665	17	
Canyon Lake	378,781	294,758	78	2,430	1	-18,611	-5	
Medina Lake	254,823	8,307	3	47	0	428	0	
*Coleto Creek Reservoir	31,040	31,040	100	9,946	32	8,962	29	
TOTAL	1,949,068	905,543	46	34,346	2	23,427	1	
UPPER COAST								
Houston, Lake	120,686	120,686	100	0	0	0	0	
Texana, Lake	159,566	159,566	100			24,080	15	
TOTAL	280,252	280,252	100	0	0	24,080	9	
SOUTHERN								
Choke Canyon Reservoir	695,262	174,323	25	6,554	1	-54,089	-8	
Corpus Christi, Lake	256,961	150,594	59	32,055	12	-64,335	-25	
*Falcon Reservoir (Texas)	1,551,007	573,374	37	44,256	3	-54,931	-4	
*Falcon Reservoir (TX & Mexico) 2,646,817	573,374	22	44,256	2	-54,931	-2	
TOTAL	2,503,230	898,291	36	82,865	3	-173,355	-7	
STATE TOTAL	31,340,216	21,891,561	70	1,241,208	4	1,634,687	5	
* Conservation volume is used a ** Nov 11/27 2013 – 12/02 2014	as conservation stora data were not avail	age capacity because the able. End of Nov 2013	ne dead storage	d storage is unk e was estimated	known. d.			
Elephant Butte Reservoir	1,973,358	367,162	19	39,306	2	5,638	0	

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



NOTE: NO DATA FROM TEXANA

FEBRUARY STREAMFLOW CONDITIONS

Of 29 reporting index stations monitored this month, computed 30-day mean flows were exceptionally low (<5%) at 0 station, extremely low (5-10%) at 2 stations, severely low (10-15%) at 3 stations, moderately low (15-20%) at 1 station, abnormally low (20-30%) at 2 stations, and near normal (30% - 70%) at the remaining 21 stations. Compared to last month, flows have increased at 22 index stations and decreased at 3 stations.

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



MARCH 2015 GROUNDWATER LEVELS IN OBSERVATION WELLS



March, 2015

Water level measurements were available for all of the seventeen key monitoring wells in the state. Water levels rose in fourteen of the monitoring wells since the beginning of March, ranging from 0.04 feet in the Hansford County Ogallala Aquifer well to 6.12 feet in the La Salle County Carrizo Aquifer well. Water levels declined in three monitoring wells, ranging from 0.09 feet in the Lamb County Ogallala Aquifer well to 4.43 feet in the Hudspeth County Victorio Peak Aquifer well. The J-17 well in San Antonio recorded a water level of 84.80 feet below land surface or 646.20 feet above mean sea level. This water level is 6.20 feet 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. ***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	March	February	month change	year change	historical change
(1) Hansford 0354301	155.86	155.9	0.04	-1.2	-85.74
(2) Lamb 1053602	145.27	145.18	-0.09	-1.03	-117.12
(3) Martin 2739903	141.75	142.07	0.32	-0.37	-36.86
(4) Dallas 3319101	490.18	490.59	0.41	-0.96	-268.18
(5) Coryell 4035404	501.28	502.22	0.94	-0.94	-209.28
(6) Kendall 6802609	124.74	130.5	5.76	8.01	-64.74
(7) Bell 5804816	123.76	124.5	0.74	0.87	-0.42
(8) Bexar 6837203	84.80	86.61	1.81	5.41	-29.59
(9) Smith 3430907	433.72	434.33	0.61	3.84	-67.72
(10) La Salle 7738103	487.6	493.72	6.12	-19.63	-234.53
(11) Harris 6514409	187.61	190.03	2.42	3.5	-52.11*
(12) Victoria 8017502	37.17	37.6	0.43	-1.53	-3.17
(13) El Paso 4913301	296.3	295.93	-0.37	-0.98	-64.4
(14) Reeves 4644501	155.39	156.01	0.62	- 2.81	-63.3
(15) Pecos 5216802	188.08	190.05	1.97	19.47	58.8
(16) Haskell 2135748	48.47	48.67	0.2	0.37	-7.14
(17) Hudspeth 4807516	138.1	133.67	-4.43	-1.52	-34.18

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

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





The late March water-level measurement in this Edwards (BFZ) Aquifer well, elevation 731 feet above mean sea level, was 84.80 feet below land surface, or 646.20 feet above mean sea level. This was 1.81 feet above last month's measurement, 5.41 feet above last year's measurement, and 29.59 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.

West Texas Bolsons

The West Texas Bolsons is a minor aquifer located in several basins or bolsons in far West Texas. The aquifer is composed of eroded materials that vary in composition depending on the mountains bordering the basins and the manner in which the sediments were deposited. Sediments range from fine-grained silt and clay of lake deposits to coarse-grained volcanic rock and limestone of alluvial fans. Freshwater thickness averages about 580 feet. Groundwater quality varies depending on the basin, ranging from freshwater, containing less than 1,000 milligrams per liter of total dissolved solids, to slightly to moderately saline water containing between 1,000 to 4,000 millaigrams per liter of total dissolved solids. Groundwater is used for irrigation and livestock throughout the area and for municipal supply in the regional cities.

Well # 5119902, 170 feet deep unused, western Jeff Davis County



Depth-to-water in this well has been measured by the TWDB for 60 years. Water levels have remained relatively unchanged throughout historical data. There was a small fluctuation during the late 1970s when water levels dropped to their historical measured low of 123 feet in 1978.

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