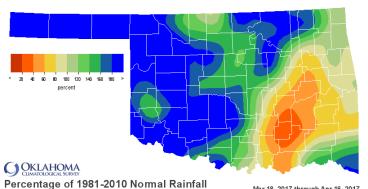
Oklahoma Water Resources Bulletin & Summary of Current Conditions



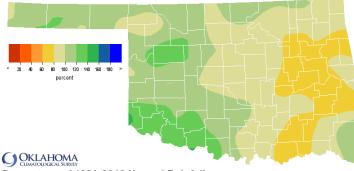
April 17, 2017

PRECIPITATION

Statewide Precipitation Last 30 Days Last 365 Days March 18, 2017 - April 16, 2017 April 17, 2016 - April 16, 2017 Total **Departure Total Departure** Climate From Normal Percent of **Rank Since** From Normal Percent of **RANK SINCE** Rainfall Rainfall **Division Normal** 1921 (inches) (inches) 1921 (inches) (inches) **Normal PANHANDLE** 4.25" +2.69" 272% 2nd wettest 22.31" +1.73" 108% 29th wettest NORTH CENTRAL 4.36" +1.70" 164% 12th wettest 32.70" +1.28" 104% 30th wettest **NORTHEAST** 4.93" 18th wettest 38th driest +1.34" 137% 37.89" -4.78" 89% +4.39" WEST CENTRAL 4.43" +2.20" 199% 6th wettest 32.79" 115% 16th wettest 157% CENTRAL 4.86" 15th wettest 35.50" -2.13" 94% 41st wettest +1.76" 2.78" 34th driest 35.68" 77% 20th driest **EAST CENTRAL** -1.00" 73% -10.46" SOUTHWEST 4.98" 219% +2.71" 6th wettest 37.87" +7.60" 125% 11th wettest SOUTH CENTRAL 3.17" -0.10" 97% 43rd wettest 38.48" -2.23" 95% 42nd wettest **SOUTHEAST** 4.63" +0.44" 110% 36th wettest 44.73" -5.86" 88% 34th driest STATEWIDE 4.28" +1.32 144% 16th wettest 35.17" -1.30" 96% 41st wettest



Mar 18, 2017 through Apr 16, 2017 Created 2017-04-17 10:01:42 UTC. Copyright @ 2017

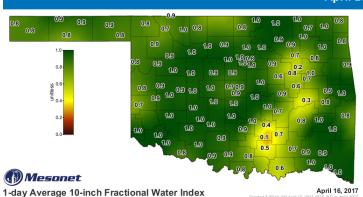


Percentage of 1981-2010 Normal Rainfall Last 365 Days

Apr 17, 2016 through Apr 16, 2017

SOIL MOISTURE

Fractional Water Index April 16, 2017



7-day 10-inch Fractional Water Index Change

April 16, 201 sted 6:30:01 AM April 17, 2017 CDT. © Copyright 20

The Fractional Water Index ranges from very dry soil having a value of 0 to soil at field capacity illustrated by a value of 1. [1.0-0.8 = Enhanced Growth; 0.8-0.5 = Limited Growth; 0.5-0.3 = Plants Wilting; 0.3-0.1 = Plants Dying; <0.1 = Barren Soil.]

DROUGHT INDICES

Palmer Drought Severity Index (PDSI)			Standardized Precipitation Index (SPI) Through March 2017			
Climate Division	Status 4/15/17	Value 3/25 4/1	Change 5 in Value	3-month	12-month	24-month
NORTHWEST	Near Normal	-1.38 1.2	5 -2.63	Very Moist	Abnormally Moist	Exceptionally Moist
NORTH CENTRAL	Near Normal	-0.66 0.7	8 -1.44	Very Moist	Abnormally Moist	Very Moist
NORTHEAST	Near Normal	-1.68 -0.8	-0.84	Near Normal	Near Normal	Moderately Moist
WEST CENTRAL	Near Normal	-0.76 1.1	2 -1.88	Extremely Moist	Moderately Moist	Extremely Moist
CENTRAL	Near Normal	-2.08 -0.0	-2.02	Moderately Moist	Near Normal	Extremely Moist
EAST CENTRAL	Moderate Drought	-2.43 -2.7	1 0.28	Near Normal	Moderately Dry	Extremely Moist
SOUTHWEST	Unusual Moist Spell	-0.16 2.4	7 -2.63	Extremely Moist	Very Moist	Exceptionally Moist
SOUTH CENTRAL	Near Normal	-1.91 -1.7	'8 -0.13	Near Normal	Near Normal	Exceptionally Moist
SOUTHEAST	Moderate Drought	-1.71 -1.9	0.25	Near Normal	Abnormally Dry	Extremely Moist
extreme drought severe drought -4.0 or less -3.0 to -3.9	drought normal mois	usual very t spell moist spe to +2.9 +3.0 to +3	extremely II moist 9 +4.0 and above	exceptionally extremely dry dry dry dry -2.00 and -1.99 to below -1.60 -1.30 -0.80 exceptionally extremely dry dry dry dry dry dry dry dry dry dr	dry normal moist 0 -0.79 to -0.50 to +0.51 to +	oderately wery moist extremely exceptionally moist moist moist moist most of the first moist moi

The PDSI is based upon precipitation, temperature, and soil moisture, and is considered most effective for unirrigated cropland. According to the latest PDSI, all climate regions in the state are classified as Near Normal or wetter except the East Central and Southeast regions, which are experiencing Moderate Drought.

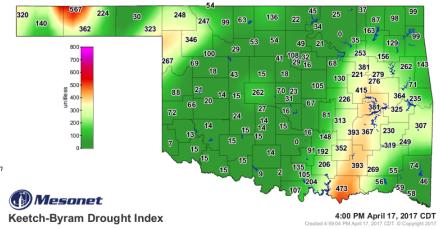
The SPI provides a comparison of precipitation over several specified periods with totals from the same periods for all years included in the historical record. For the 12-month time period, the East Central region had Moderately Dry conditions and the Southeast region had Abnormally Dry conditions. All climate regions had Near Normal conditions or wetter for the 3-month and 24-month periods.

Keetch-Byram Drought Fire Index

April 17, 4:00 p.m.--0 stations are above 600.

Zero stations were above 600 on March 31 2017.

The Keetch-Byram Drought Index measures the state of near-surface soil moisture (within the uppermost eight inches of soil) as well as the amount of fuel available for fires. KBDI values of 600 and above are often associated with more severe drought and increased wildfire occurrence.

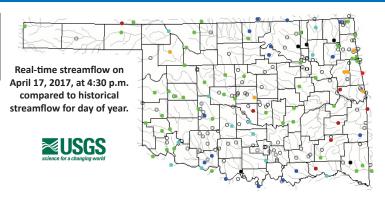


STREAMFLOW CONDITIONS

April 17, 2017

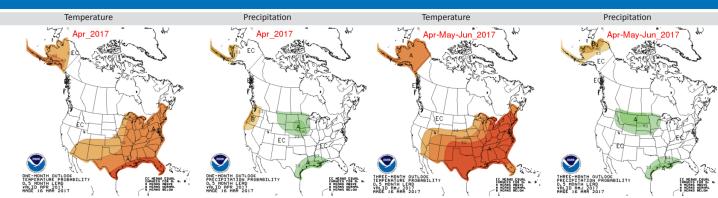
Explanation - Percentile classes							
						•	
Low	<10	10-24	25-75	76-90	>90	High	Not ranked
LOW	Much below normal	Below normal	Normal	Above normal	Much above normal	iligii	Not ranked

Visit waterwatch.usgs.gov for real-time streamflow information.



WEATHER/DROUGHT FORECAST

Seasonal Outlook

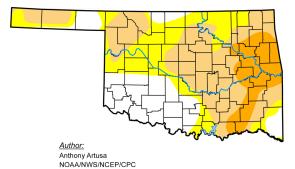


The contours on the maps show the total probability of three categories—above, indicated by the letter "A"; and below, indicated by the letter "B". "EC" indicates "Equal Chances" for A or B. For April-June, the probability for precipitation in all areas of the state has equal chances of being above or below normal.

Drought Summary & Outlook

U.S. Drought Monitor

Oklahoma



USDA /







http://droughtmonitor.unl.edu/

April 11, 2017 (Released Thursday, Apr. 13, 2017) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

None	D0-D4	D1-D4	D2-D4	D3-D4	D4
23.65	76.35	50.92	13.65	0.00	0.00
19.43	80.57	54.67	14.50	0.00	0.00
2.81	97.19	87.61	58.35	5.66	0.00
5.61	94.39	83.21	55.75	5.55	0.00
57.82	42.18	19.04	3.05	0.00	0.00
31.85	68.15	31.90	5.45	0.00	0.00
	23.65 19.43 2.81 5.61 57.82	23.65 76.35 19.43 80.57 2.81 97.19 5.61 94.39 57.82 42.18	23.65 76.35 50.92 19.43 80.57 54.67 2.81 97.19 87.61 5.61 94.39 83.21 57.82 42.18 19.04	23.65 76.35 50.92 13.65 19.43 80.57 54.67 14.50 2.81 97.19 87.61 58.35 5.61 94.39 83.21 55.75 57.82 42.18 19.04 3.05	23.65 76.35 50.92 13.65 0.00 19.43 80.57 54.67 14.50 0.00 2.81 97.19 87.61 58.35 5.66 5.61 94.39 83.21 55.75 5.55 57.82 42.18 19.04 3.05 0.00

D3 Extreme Drought

D4 Exceptional Drought

Intensity:

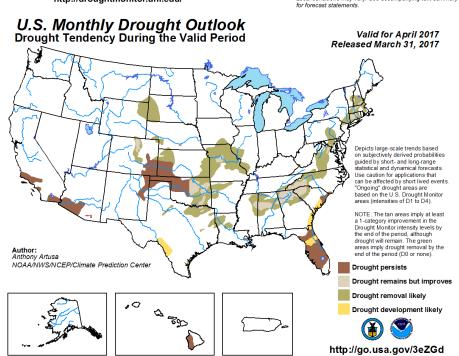
D0 Abnormally Dry
D1 Moderate Drought

D2 Severe Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements. According to the latest *U.S.*Drought Monitor, the number of Oklahomans currently affected by drought is 2,830,801, down by about 400,000 from this time last month.

While no areas are suffering from Exceptional Drought (D4) or Extreme Drought (D3), nearly 14% of the state (in area) is in Severe Drought (D2) and about 51% of the state is in Moderate Drought (D1) or worse. The largest area of Severe Drought is in the East Central region, which corresponds with less than average rainfall for the region--only at 73% of normal for the past 30 days.

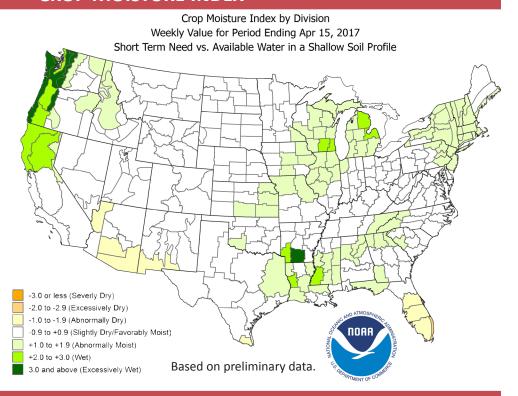
According to the latest seasonal drought outlook, during the month of April, drought will persist in the northwest quadrant and panhandle of the state. The largest contiguous area of drought for the period is predicted to spread from Oklahoma to the north and west into neighboring states.



CROP MOISTURE INDEX

According to the NOAA Crop Moisture Index by Division, for the period ending April 15, 2017, all regions of the state are shown as Slightly Dry/ Favorably Moist (-0.9 to +0.9) except the southwest region, which is shown as Abnormally Moist (+1.0 to +1.6).

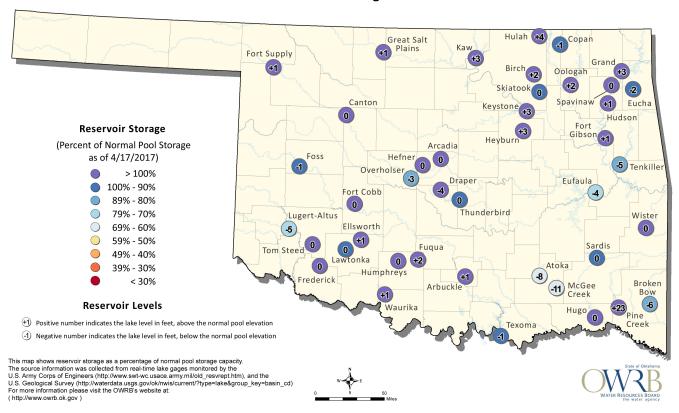
Derived from the Palmer Drought Severity Index (PDSI), the Crop Moisture Index reflects moisture supply in the short-term across major crop-producing regions. It identifies potential agricultural droughts. It is not intended to assess long-term droughts.



RESERVOIR STORAGE

Oklahoma Surface Water Resources

Reservoir Levels and Storage as of 4/17/2017



The Oklahoma Water Resources Bulletin is compiled and distributed monthly by the Oklahoma Water Resources Board utilizing products and information developed by the Oklahoma Climatological Survey, Oklahoma Mesonet, National Oceanic and Atmospheric Administration, National Drought Mitigation Center, US Geological Survey, US Army Corps of Engineers, and US Department of Agriculture. For questions or comments contact Darla Whitley, Editor.