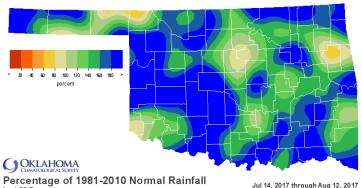
Oklahoma Water Resources Bulletin & Summary of Current Conditions



August 13, 2017

Precipitation

Statewide Precipitation Last 30 Days Last 365 Days July 14, 2017 - August 12, 2017 August 13, 2016 - August 12, 2017 Departure From Normal Total Departure Total Climate From Normal Percent of **Rank Since** Percent of **RANK SINCE** Rainfall Rainfall **Division** (inches) **Normal** 1921 (inches) (inches) 1921 (inches) **Normal PANHANDLE** 4.16" +1.58" 161% 14th wettest 23.28" +2.70" 113% 19th wettest NORTH CENTRAL 4.83" 174% 10th wettest 34.26" +2.84" 109% 21st wettest +2.06" **NORTHEAST** 5.37" 14th wettest +2.23" 171% 46.59" +3.92" 109% 24th wettest WEST CENTRAL 5.09" +2.76" 218% 7th wettest 34.13" +5.73" 120% 15th wettest CENTRAL 4.56" 167% 15th wettest 36.64" -0.99" 97% 38th wettest +1.83" **EAST CENTRAL** 4.38" 142% 25th wettest 45.06" -1.08" 43rd wettest +1.29" 98% SOUTHWEST 3.80" +4.27" +1.60" 173% 11th wettest 34.54" 114% 16th wettest SOUTH CENTRAL 3.96" +1.56" 165% 17th wettest 40.00" -0.71" 98% 39th wettest **SOUTHEAST** 5.57" +2.44" 178% 16th wettest 49.63" -0.96" 98% 42nd wettest STATEWIDE 4.62" 38.07" +1.90' 170% 8th wettest +1.60" 104% 26th wettest



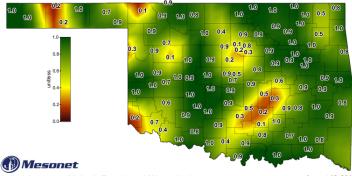
OKLAHOMA

Percentage of 1981-2010 Normal Rainfall Last 365 Days

Aug 13, 2016 through Aug 12, 2017

SOIL MOISTURE

Fractional Water Index August 12, 2017



(1)) Mesonet

1-day Average 10-inch Fractional Water Index

August 12, 2017

7-day 10-inch Fractional Water Index Change

August 12, 2017

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 June 2017					
Climate Division	Status 8/5/17	Value 7/15 8/5	Change in Value	3-month	12-month	24-month			
NORTHWEST	Near Normal	-0.42 -0.7	1 0.29 (-)	Moderately Moist	Abnormally Moist	Very Moist			
NORTH CENTRAL	Near Normal	-0.3 -0.7	0.46 (-)	Near Normal	Moderately Moist	Moderately Moist			
NORTHEAST	Near Normal	0.38 0.5	1 0.13 (+)	Very Moist	Moderately Moist	Moderately Moist			
WEST CENTRAL	Near Normal	-1.3 -1.	4 0.1 (-)	Near Normal	Abnormally Moist	Moderately Moist			
CENTRAL	Near Normal	-1.49 -1.5	5 0.06 (-)	Near Normal	Near Normal	Abnormally Moist			
EAST CENTRAL	Near Normal	1.25 1.5	9 0.34 (+)	Moderately Moist	Near Normal	Moderately Moist			
SOUTHWEST	Near Normal	0.91 0.3	3 0.58 (-)	Near Normal	Near Normal	Moderately Moist			
SOUTH CENTRAL	Near Normal	0.43 -0.0	0.47 (-)	Abnormally Dry	Moderately Dry	Moderately Moist			
SOUTHEAST	Near Normal	0.51 0.5	2 0.01 (+)	Near Normal	Moderately Dry	Abnormally Moist			
extreme drought severe drought -4.0 or less -3.0 to -3.9	moderate near normal -2.0 to -2.9 -1.9 to +1.9	unusual very moist spell voist spell vois voist spell vois vois vois vois vois vois vois vois	extremely Il moist 9 +4.0 and above	exceptionally extremely dry dry dry 2.00 and -1.99 to -1.50 -1.39 to -0.80	dry normal moist	derately very extremely exceptionally moist moist moist moist moist 0.80 to +1.30 to +1.60 to +2.0 and +1.29 +1.59 moist moi			

The PDSI is based upon precipitation, temperature, and soil moisture, and is considered most effective for unirrigated cropland, spanning from -10 (dry) to +10 (wet). According to the latest PDSI, all climate regions in the state are experiencing near normal conditions.

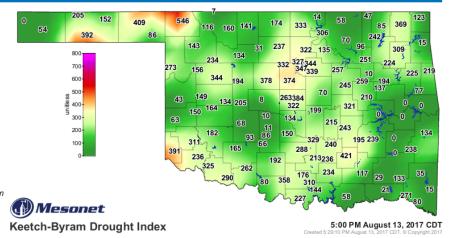
The SPI provides a comparison of precipitation over several specified periods with totals from the same periods for all years included in the historical record. For the 3-month time period, the South Central region had abnormally dry conditions, and for the 12-month period, the South Central and Southeast regions had moderately dry conditions.

Keetch-Byram Drought Fire Index

August 13, 5:00 p.m.--0 stations are above 600.

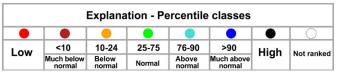
Zero stations were above 600 on July 17, 2017.

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.

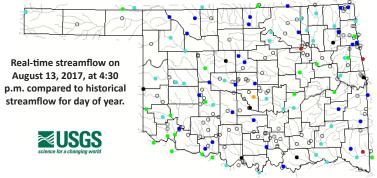


STREAMFLOW CONDITIONS

August 13, 2017

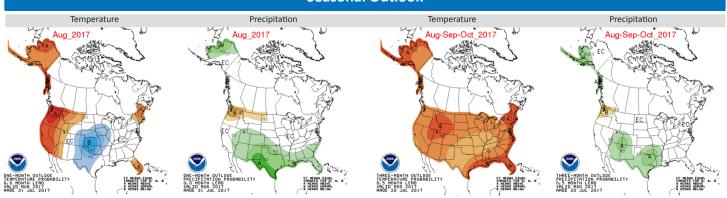


Visit waterwatch.usgs.gov for real-time streamflow information.



WEATHER/DROUGHT FORECAST

Seasonal Outlook

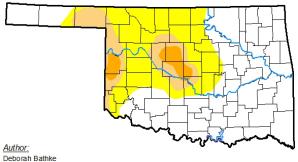


The contours on the maps show the total probability of three categories—above, indicated by the letter "A"; and below, indicated by the letter "B". "EC" indicates "Equal Chances" for A or B.

Drought Summary & Outlook

U.S. Drought Monitor

Oklahoma



National Drought Mitigation Center

USDA





U.S. Seasonal Drought Outlook



http://droughtmonitor.unl.edu/

August 8, 2017

(Released Thursday, Aug. 10, 2017) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	59.23	40.77	13.72	3.47	0.00	0.00
Last Week 08-01-2017	51.19	48.81	18.51	3.65	0.00	0.00
3 Month's Ago 05-09-2017	82.75	17.25	4.26	0.00	0.00	0.00
Start of Calendar Year 01-03-2017	5.61	94.39	83.21	55.75	5.55	0.00
Start of Water Year 09-27-2016	57.82	42.18	19.04	3.05	0.00	0.00
One Year Ago 08-09-2016	61.96	38.04	7.78	0.54	0.00	0.00

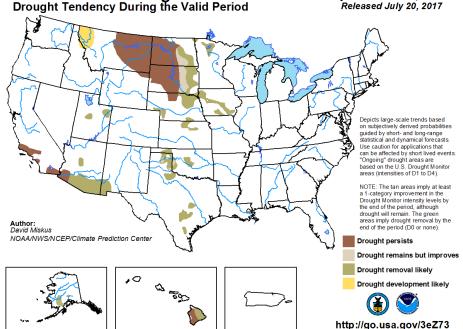
Intensity: D0 Abnormally Dry

D1 Moderate Drought D2 Severe Drought

D3 Extreme Drought D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements

Valid for July 20 - October 31, 2017



According to the latest U.S. Drought Monitor, the number of Oklahomans currently affected by drought is 839,380, down by about 100,000 from this time last month.

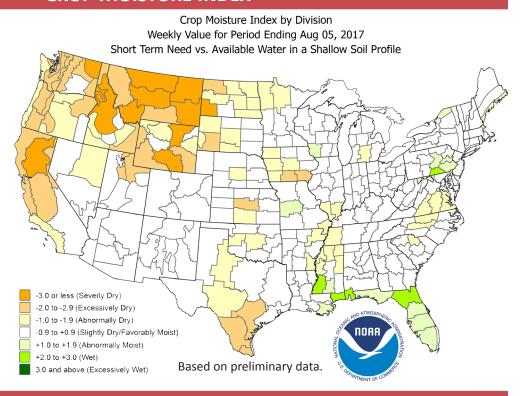
As of August 8, no areas of the state were suffering from exceptional or extreme drought (D4-D3). However, 3.47% of the state (in area) was in Severe Drought (D2), including areas in the Central and West Central regions. Another 13.72% of the state was in Moderate Drought (D1), and 40.77% was Abnormally Dry (D0).

According to the latest seasonal drought outlook for the period of July 20 through October 31, any remaining drought conditions in the state are likely to improve. A large area spanning across western South Dakota, western North Dakota and eastern Montana is expected to persist during this period, along with small areas in southern California and southwestern Arizona.

CROP MOISTURE INDEX

According to the NOAA Crop Moisture Index by Division, for the period ending August 5, 2017, the West Central and Central climate regions of Oklahoma are experiencing abnormally dry conditions, while all other regions of the state are Slightly Dry/Favorably Moist.

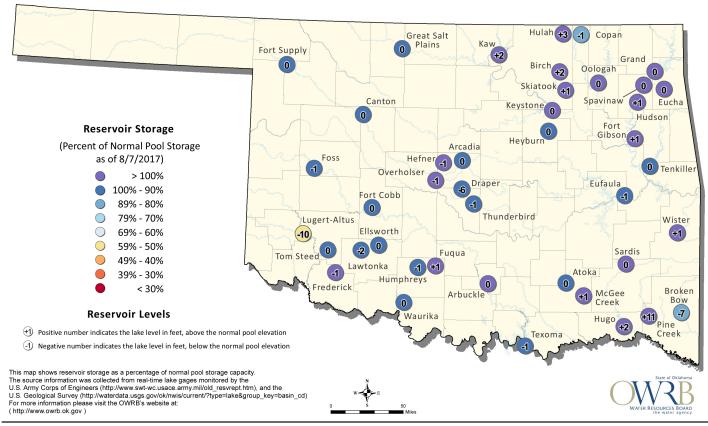
Derived from the Palmer Drought Severity Index (PDSI), the Crop Moisture Index reflects moisture supply in the short-term across major crop-producing regions. It identifies potential agricultural droughts. It is not intended to assess long-term droughts.



RESERVOIR STORAGE

Oklahoma Surface Water Resources

Reservoir Levels and Storage as of 8/7/2017



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.