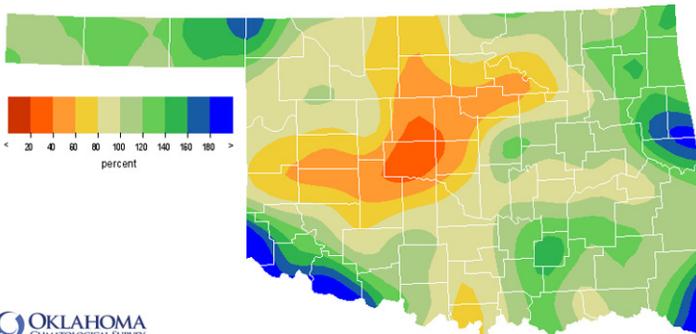


May 27, 2016

## PRECIPITATION

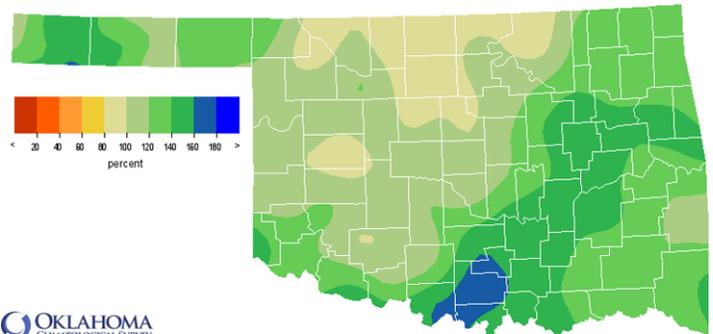
### Statewide Precipitation

Climate Division	Last 30 Days April 27, 2016 – May 26, 2016				Last 365 Days May 28, 2015 – May 26, 2016			
	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	Rank Since 1921	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	RANK SINCE 1921
PANHANDLE	3.01"	+0.64"	127%	38th wettest	25.46"	+4.98"	124%	13th wettest
N. CENTRAL	3.42"	-0.56"	86%	43rd driest	30.64"	-0.63"	98%	41st wettest
NORTHEAST	5.71"	+0.33"	106%	36th wettest	53.00"	+10.52"	125%	7th wettest
W. CENTRAL	2.78"	-0.88"	76%	43rd driest	30.85"	+2.60"	109%	24th wettest
CENTRAL	3.36"	-1.39"	71%	31st driest	42.29"	+4.83"	113%	15th wettest
E. CENTRAL	6.86"	+1.26"	123%	28th wettest	66.34"	+20.39"	144%	2nd wettest
SOUTHWEST	4.41"	+0.56"	115%	35th wettest	36.12"	+5.99"	120%	10th wettest
S. CENTRAL	5.26"	+0.18"	104%	41st wettest	61.16"	+20.64"	151%	1st wettest
SOUTHEAST	7.29"	+1.25"	121%	27th wettest	65.51"	+15.11"	130%	5th wettest
STATEWIDE	4.61"	+0.09"	102%	46th wettest	45.57"	+9.26"	125%	3rd wettest



OKLAHOMA CLIMATOLOGICAL SURVEY  
Percentage of 1981-2010 Normal Rainfall  
Last 30 Days

Apr 27, 2016 through May 26, 2016  
Created 2016-05-27 10:01:41 UTC. Copyright © 2016

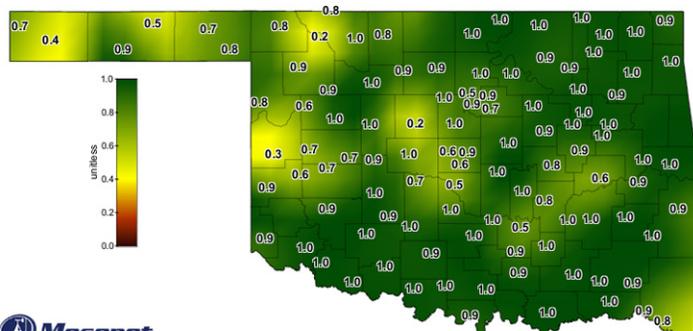


OKLAHOMA CLIMATOLOGICAL SURVEY  
Percentage of 1981-2010 Normal Rainfall  
Last 365 Days

May 28, 2015 through May 26, 2016  
Created 2016-05-27 10:03:24 UTC. Copyright © 2016

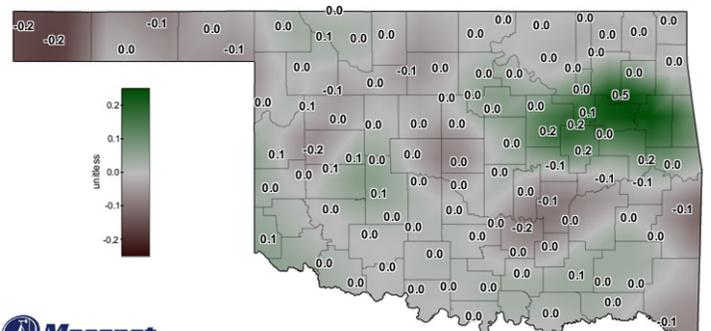
## SOIL MOISTURE

### Fractional Water Index May 27, 2016



Mesonet  
1-day Average 10-inch Fractional Water Index

May 26, 2016  
Created 7:30:14 AM May 27, 2016 CD1. © Copyright 2016



Mesonet  
7-day 10-inch Fractional Water Index Change

May 26, 2016  
Created 6:30:01 AM May 27, 2016 CD1. © Copyright 2016

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 April 2016		
Climate Division	Status 5/21/16	Value 4/23 5/21		Change in Value	3-month	12-month	24-month
NORTHWEST	Very Moist Spell	2.11	2.96	-0.85	Abnormally Moist	Exceptionally Moist	Exceptionally Moist
NORTH CENTRAL	Unusual Moist Spell	2.27	2.16	0.11	Near Normal	Very Moist	Moderately Moist
NORTHEAST	Unusual Moist Spell	2.09	1.98	0.11	Near Normal	Extremely Moist	Moderately Moist
WEST CENTRAL	Unusual Moist Spell	2.59	2.04	0.55	Near Normal	Extremely Moist	Extremely Moist
CENTRAL	Unusual Moist Spell	3.68	2.73	0.95	Moderately moist	Exceptionally Moist	Extremely Moist
EAST CENTRAL	Very Moist Spell	3.94	3.86	0.08	Abnormally Moist	Exceptionally Moist	Exceptionally Moist
SOUTHWEST	Unusual Moist Spell	4.14	3.87	0.27	Moderately moist	Exceptionally Moist	Extremely Moist
SOUTH CENTRAL	Extremely Moist	5.46	5.05	0.41	Moderately moist	Exceptionally Moist	Exceptionally Moist
SOUTHEAST	Extremely Moist	4.47	3.95	0.52	Moderately moist	Exceptionally Moist	Exceptionally Moist

extreme drought -4.0 or less	severe drought -3.0 to -3.9	moderate drought -2.0 to -2.9	near normal -1.9 to +1.9	unusual moist spell +2.0 to +2.9	very moist spell +3.0 to +3.9	extremely moist +4.0 and above
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exceptionally dry -2.00 and below	extremely dry -1.99 to -1.80	severely dry -1.59 to -1.30	moderately dry -1.29 to -0.80	abnormally dry -0.79 to -0.51	near normal -0.50 to +0.50	abnormally moist +0.51 to +0.79	moderately moist +0.80 to +1.29	very moist +1.30 to +1.59	extremely moist +1.60 to +1.99	exceptionally moist +2.0 and above
--------------------------------------	---------------------------------	--------------------------------	----------------------------------	----------------------------------	-------------------------------	------------------------------------	------------------------------------	------------------------------	-----------------------------------	---------------------------------------

*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 unusually moist or wetter. The South Central and Southeast regions are classified as Extremely Moist.*

*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. All climate divisions had above normal precipitation for the 12- and 24-month time periods. For the 3-month time period, the North Central, Northeast, and West Central regions were near normal.*

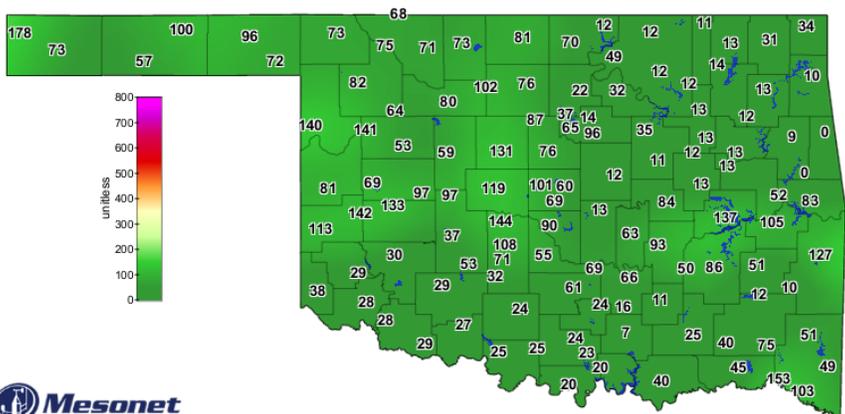
## Keetch-Byram Drought Fire Index

MESONET STATION	CLIMATE DIVISION	CURRENT VALUE
-----------------	------------------	---------------

No stations are currently near 600 (May 27).

No stations were above 600 on April 28.

*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.*



Keetch-Byram Drought Index

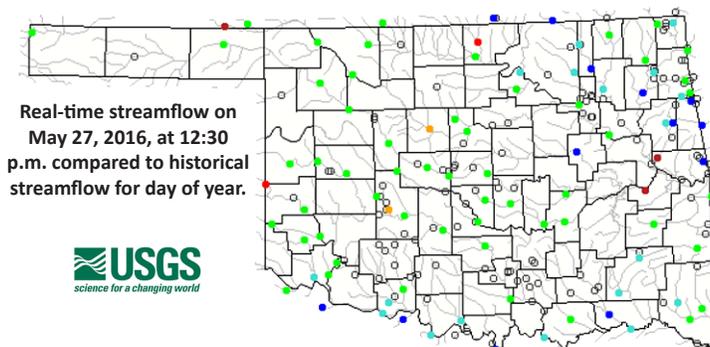
12:00 PM May 27, 2016 CDT  
Created 12:29:09 PM May 27, 2016 CDT. © Copyright 2016

## STREAMFLOW CONDITIONS

May 27, 2016

Explanation - Percentile classes							
<span style="color: red;">●</span>	<span style="color: red;">●</span>	<span style="color: orange;">●</span>	<span style="color: green;">●</span>	<span style="color: cyan;">●</span>	<span style="color: blue;">●</span>	<span style="color: black;">●</span>	<span style="color: gray;">●</span>
<b>Low</b>	<10 <small>Much below normal</small>	10-24 <small>Below normal</small>	25-75 <small>Normal</small>	76-90 <small>Above normal</small>	>90 <small>Much above normal</small>	<b>High</b>	Not ranked

Visit [waterwatch.usgs.gov](http://waterwatch.usgs.gov) for real-time streamflow information.

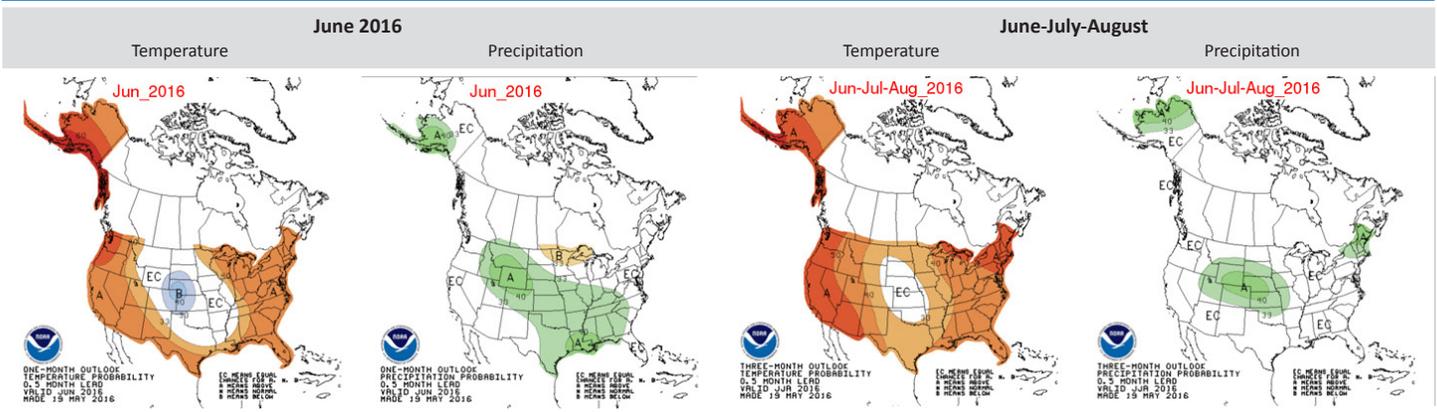


Real-time streamflow on May 27, 2016, at 12:30 p.m. compared to historical streamflow for day of year.



# WEATHER/DROUGHT FORECAST

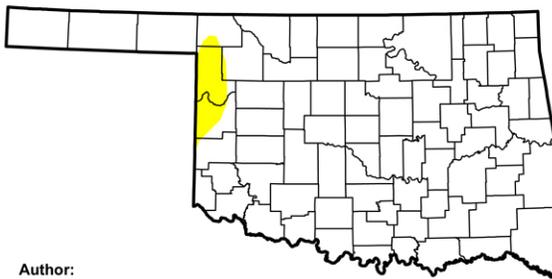
## Seasonal Outlook



The contours on the maps show the total probability of three categories—above, indicated by the letter “A”; below, indicated by the letter “B”; and the middle category, indicated by the letter “N”. “EC” stands for “Equal Chances” for A, N, or B

## Regional Drought Summary & Outlook

### U.S. Drought Monitor Oklahoma



Author:  
David Simeral  
Western Regional Climate Center



<http://droughtmonitor.unl.edu/>

May 24, 2016

(Released Thursday, May 26, 2016)

Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	97.16	2.84	0.00	0.00	0.00	0.00
Last Week 5/17/2016	97.16	2.84	1.50	0.00	0.00	0.00
3 Months Ago 2/23/2016	98.99	1.01	0.00	0.00	0.00	0.00
Start of Calendar Year 12/29/2015	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 9/28/2015	52.60	47.40	16.79	6.37	0.97	0.00
One Year Ago 5/26/2015	77.31	22.69	2.74	0.00	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.

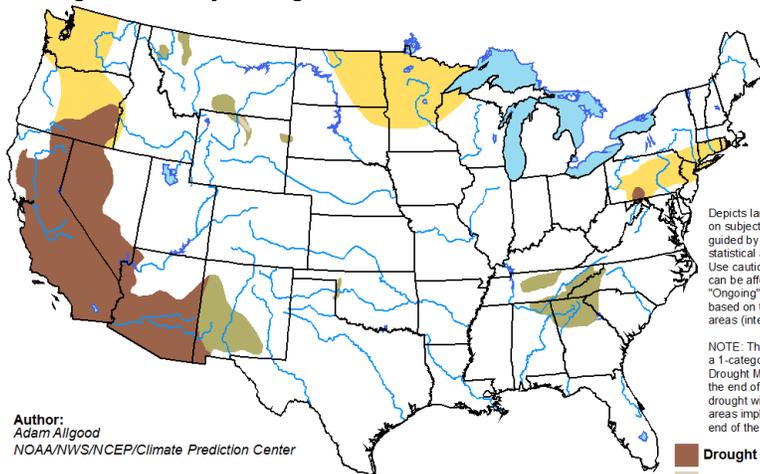
According to the U.S. Drought Monitor, the number of Oklahomans affected by drought (categories D1-D4) is now at zero, down from 80,549 at this time last month. About 2.8% of the state (in area), mostly in Ellis and Roger Mills counties, is now classified as D0 (abnormally dry). Last month, more than 10% of the state was at D1 (moderate drought), and nearly 2% at D2 (severe drought).

In the past month, the Northwest region received an average of 127% of normal rainfall, pulling all areas of the region completely out of D1 and D2 status. The North Central region received only 86% of normal rainfall, but it was enough to pull areas in Grand and Garfield counties out of D1 status. Statewide, the past 365-day period has been ranked as 3rd wettest on record at 125% of normal rainfall.

According to the seasonal drought outlook, from mid May through the end of August, drought conditions are not likely to develop in any parts of Oklahoma. However, during this time period, drought is likely to persist in most of California through western Nevada, southeastern Oregon, and southern Arizona. Drought is likely to develop in a few isolated areas in the northern third of the U.S.

### U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for May 19 - August 31, 2016  
Released May 19, 2016

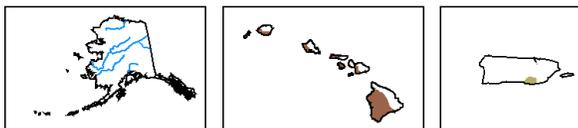


Author:  
Adam Algood  
NOAA/NWS/NCEP/Climate Prediction Center

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



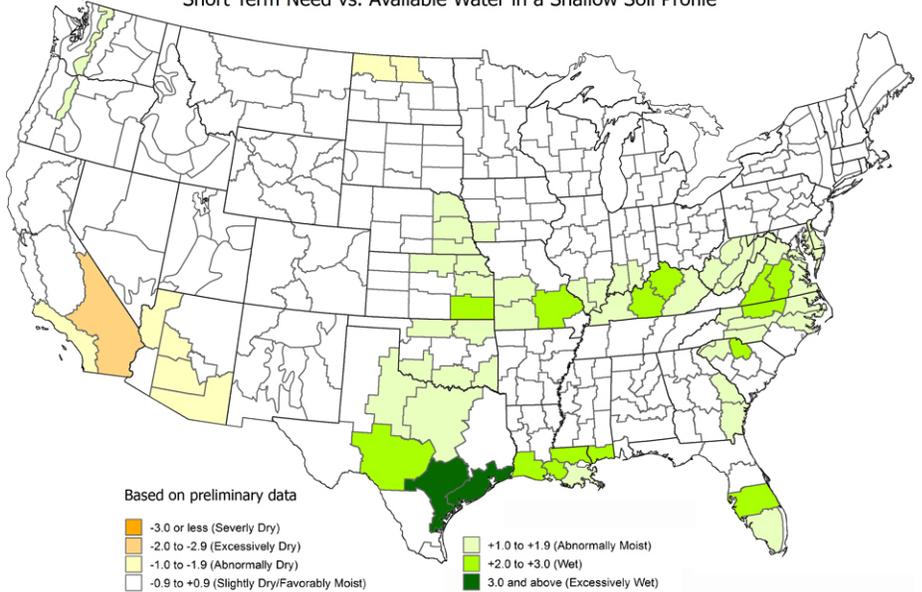
<http://go.usa.gov/3eZ73>

# CROP MOISTURE INDEX

According to the NOAA Crop Moisture Index by Division, for the period ending May 21, the Northwest, West Central, Central, and East Central regions were classified as near normal, while the North Central, Northeast, Southwest, South Central, and Southeast were classified as abnormally 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.

Crop Moisture Index by Division  
Weekly Value for Period Ending May 21, 2016  
Short Term Need vs. Available Water in a Shallow Soil Profile



# RESERVOIR STORAGE

## Oklahoma Surface Water Resources Reservoir Levels and Storage as of 5/23/2016

