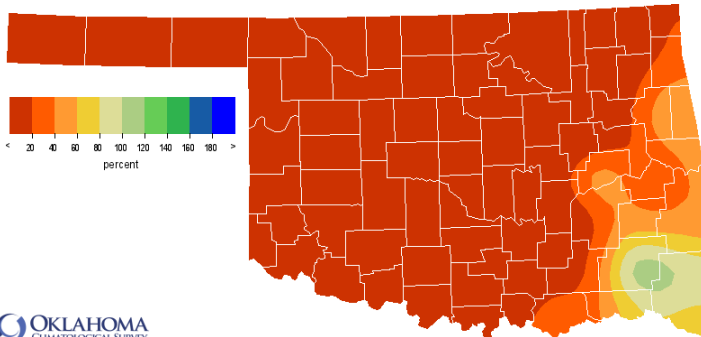


February 15, 2018

## PRECIPITATION

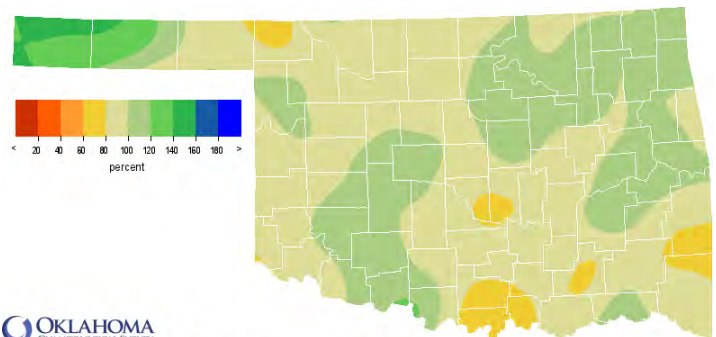
### Statewide Precipitation

Climate Division	Last 30 Days January 16 – February 14, 2018				Last 365 Days February 15, 2017 – February 14, 2018			
	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	0.00"	-0.64"	0%	1st driest	22.59"	+2.01"	110%	25th wettest
NORTH CENTRAL	0.04"	-1.05"	4%	2nd driest	29.08"	-2.34"	93%	48th driest
NORTHEAST	0.10"	-1.73"	5%	2nd driest	44.63"	+1.96"	105%	32nd wettest
WEST CENTRAL	0.00"	-1.04"	0%	1st driest	27.71"	-0.69"	98%	38th wettest
CENTRAL	0.01"	-1.64"	1%	1st driest	36.75"	-0.88"	98%	39th wettest
EAST CENTRAL	0.61"	-1.80"	25%	8th driest	46.57"	+0.43"	101%	35th wettest
SOUTHWEST	0.03"	-1.27"	3%	4th driest	31.41"	+1.14"	104%	27th wettest
SOUTH CENTRAL	0.14"	-1.99"	7%	2nd driest	34.32"	-6.39"	84%	32nd driest
SOUTHEAST	2.33"	-0.90"	72%	39th driest	47.02"	-3.57"	93%	41st driest
STATEWIDE	0.32"	-1.37"	19%	5th driest	35.53"	-0.94"	97%	39th wettest



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

Jan 16, 2018 through Feb 14, 2018  
Created 2/15/18 AM February 15, 2018 CST © Copyright 2018

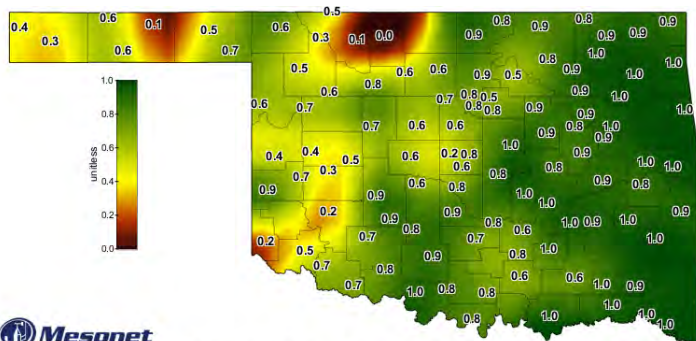


OKLAHOMA CLIMATOLOGICAL SURVEY  
Percentage of 1981-2010 Normal Rainfall  
Last 365 Days

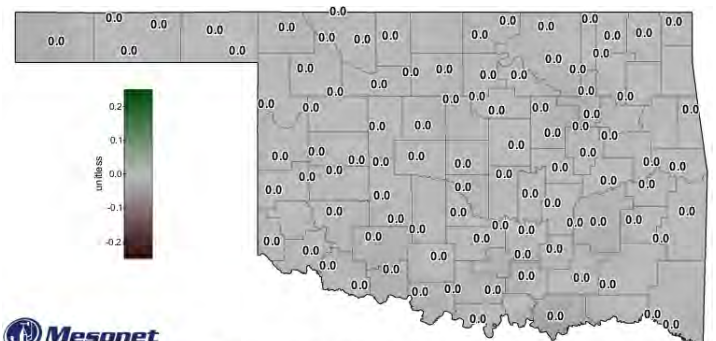
Feb 15, 2017 through Feb 14, 2018  
Created 2/15/18 AM February 15, 2018 CST © Copyright 2018

## SOIL MOISTURE

### Fractional Water Index February 14, 2018



Mesonet  
1-day Average 10-inch Fractional Water Index  
February 14, 2018  
Created 2/15/18 AM February 15, 2018 CST © Copyright 2018



Mesonet  
7-day 10-inch Fractional Water Index Change  
February 18, 2018  
Created 2/15/18 AM February 15, 2018 CST © Copyright 2018

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 January 2018		
Climate Division	Status 1/6/18	Value 1/6 2/10		Change in Value	3-month	12-month	24-month
NORTHWEST	Near Normal	-0.1	-1.22	1.12(-)	Exceptionally Dry	Near Normal	Near Normal
NORTH CENTRAL	Near Normal	-0.94	-1.31	0.37(-)	Exceptionally Dry	Near Normal	Near Normal
NORTHEAST	Near Normal	-0.48	-1.11	0.63(-)	Extremely Dry	Abnormally Moist	Near Normal
WEST CENTRAL	Near Normal	-0.54	-1.37	0.83(-)	Exceptionally Dry	Abnormally Moist	Abnormally Moist
CENTRAL	Near Normal	-0.46	-1.19	0.73(-)	Exceptionally Dry	Abnormally Moist	Near Normal
EAST CENTRAL	Near Normal	-0.33	-0.93	0.6(-)	Exceptionally Dry	Abnormally Moist	Near Normal
SOUTHWEST	Near Normal	1.01	-0.26	1.27(-)	Extremely Dry	Moderately Moist	Moderately Moist
SOUTH CENTRAL	Near Normal	-0.63	-1.35	0.72(-)	Extremely Dry	Near Normal	Near Normal
SOUTHEAST	Near Normal	-0.3	-0.28	-0.02(+)	Moderately Dry	Near Normal	Near Normal

<div style="display: flex; justify-content: space-around;"> <div style="width: 10%; background-color: #ff0000; height: 10px; margin-bottom: 2px;"></div> extreme drought -4.0 or less</div> <div style="width: 10%; background-color: #ff6600; height: 10px; margin-bottom: 2px;"></div> severe drought -3.0 to -3.9
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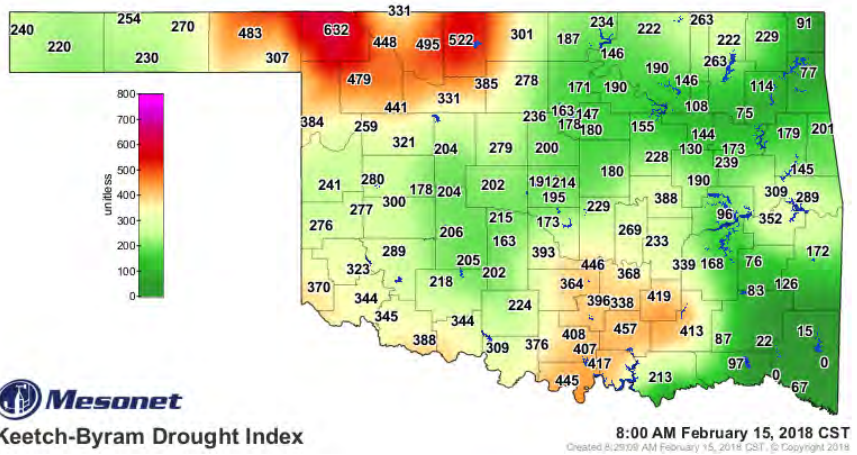
## Keetch-Byram Drought Fire Index

February 15, 8:00 a.m.--1 station is above 600.

STATION	REGION	KBDI
Buffalo	Northwest	632

One station was above 600 on Jan. 15, 2018.

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.



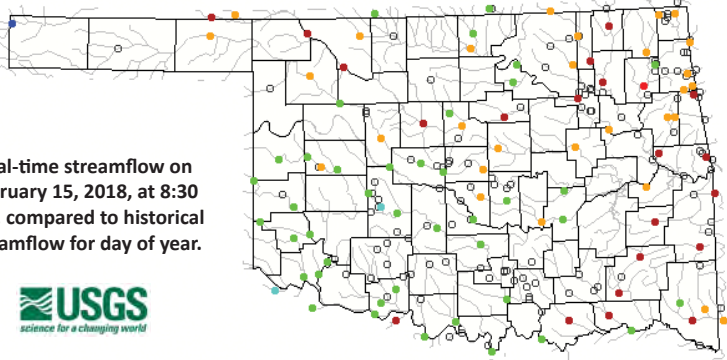
## STREAMFLOW CONDITIONS

February 15, 2018

Explanation - Percentile classes						
●	●	●	●	●	●	●
<b>Low</b>	<b>&lt;10</b> <small>Much below normal</small>	<b>10-24</b> <small>Below normal</small>	<b>25-75</b> <small>Normal</small>	<b>76-90</b> <small>Above normal</small>	<b>&gt;90</b> <small>Much above normal</small>	<b>High</b>
						Not ranked

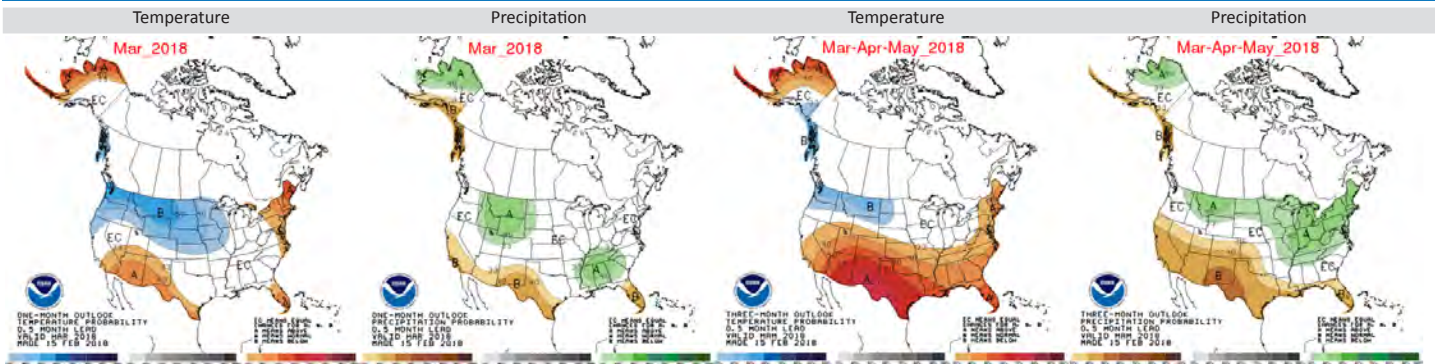
Visit [waterwatch.usgs.gov](http://waterwatch.usgs.gov) for real-time streamflow information.

Real-time streamflow on February 15, 2018, at 8:30 a.m. compared to historical streamflow for day of year.



# WEATHER/DROUGHT FORECAST

## Seasonal Outlook

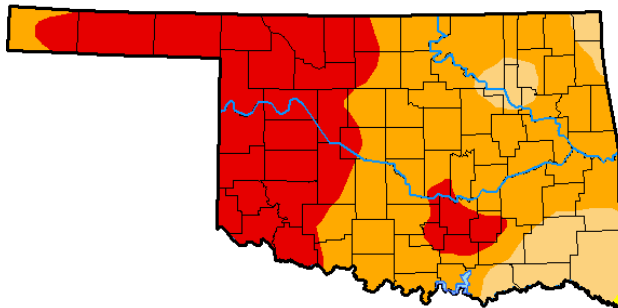


The contours on the maps show the total probability of three categories—above, indicated by the letter “A”; and below, indicated by the letter “B”. “EC” indicates “Equal Chances” for A or B.

## Drought Summary & Outlook

### U.S. Drought Monitor Oklahoma

**February 13, 2018**  
(Released Thursday, Feb. 15, 2018)  
Valid 7 a.m. EST



*Author:*  
Eric Luebbehusen  
U.S. Department of Agriculture



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

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	99.92	88.91	37.80	0.00
<b>Last Week</b> 02-06-2018	0.00	100.00	99.93	88.40	37.76	0.00
<b>3 Months Ago</b> 11-14-2017	54.09	45.91	17.34	2.00	0.00	0.00
<b>Start of Calendar Year</b> 01-02-2018	0.00	100.00	77.15	38.76	0.00	0.00
<b>Start of Water Year</b> 09-26-2017	64.46	35.54	0.77	0.00	0.00	0.00
<b>One Year Ago</b> 02-14-2017	5.15	94.85	73.84	30.14	3.34	0.00

*Intensity:*  
■ D0 Abnormally Dry ■ D3 Extreme Drought  
■ D1 Moderate Drought ■ D4 Exceptional Drought  
■ D2 Severe Drought

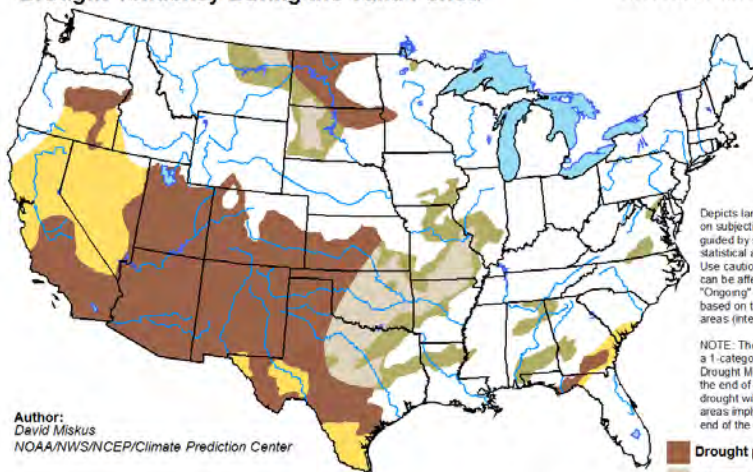
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

According to the latest U.S. Drought Monitor, as of February 13, the estimated Oklahoma population in drought areas is 3,750,436, up by more than 2 million from this time last month. The entire state is now in moderate drought or worse. Almost 89% of the state in area is having severe drought (D2) conditions or worse, and almost 38% is in extreme drought (D3). There are no areas with exceptional drought (D4) conditions.

According to the latest seasonal drought outlook for the period of February 15 through May 31, 2018, most of the Oklahoma will either remain in persistent drought (west) or remaining drought (central and east). There is predicted to be an enormous area of persistent drought across the southwestern quadrant of the contiguous United States.

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

Valid for February 15 - May 31, 2018  
Released February 15, 2018



*Author:*  
David Miskus  
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

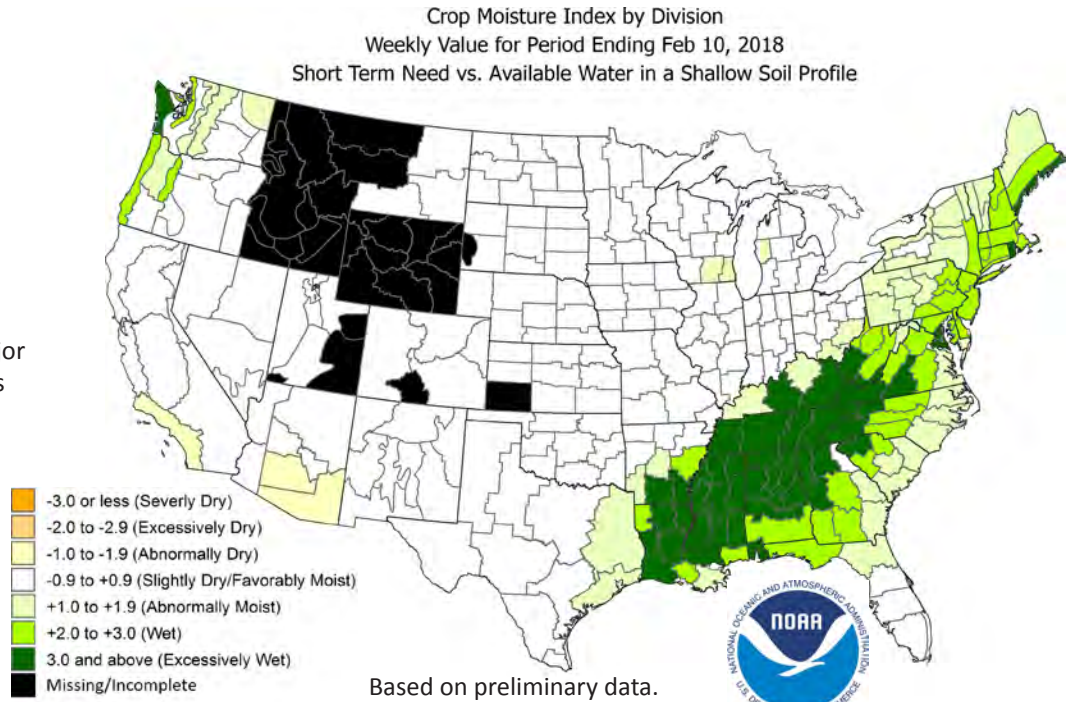


<http://go.usa.gov/3eZ73>

# CROP MOISTURE INDEX

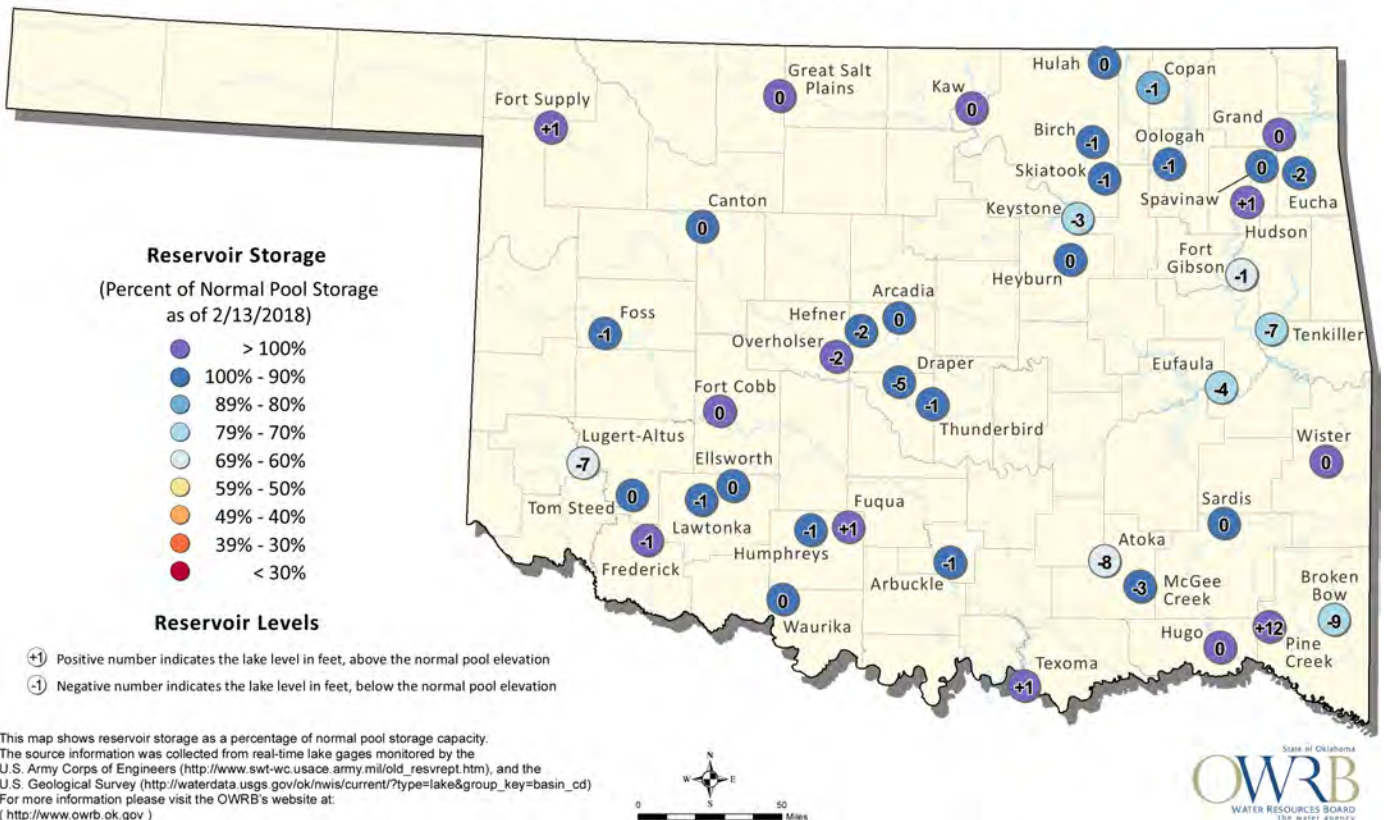
According to the NOAA Crop Moisture Index by Division, for the period ending February 10, 2018, all Oklahoma climate regions are experiencing Slightly Dry/Favorably Moist conditions (-0.9 to +0.9).

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 2/13/2018



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.