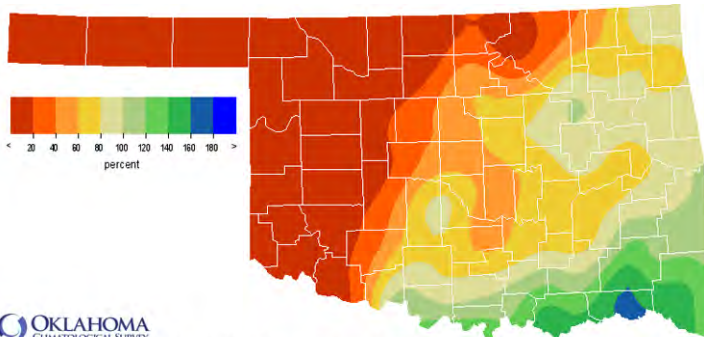


January 15, 2018

PRECIPITATION

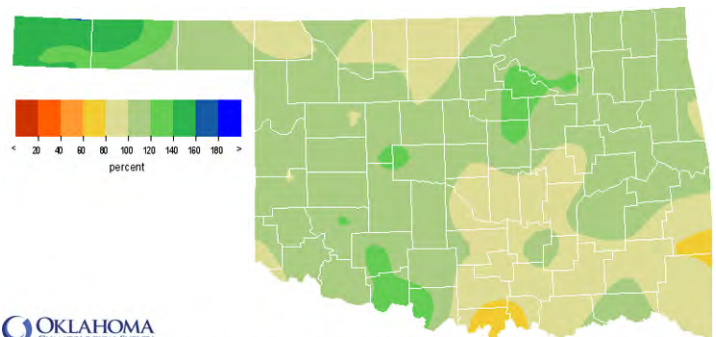
Statewide Precipitation

| Climate Division | Last 30 Days December 16, 2017 – January 14, 2018 | | | | Last 365 Days January 15, 2017 – January 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 | 0.01" | -0.66" | 2% | 5th driest | 24.94" | +4.36" | 121% | 10th wettest |
| NORTH CENTRAL | 0.12" | -0.90" | 12% | 10th driest | 32.04" | +0.62" | 102% | 34th wettest |
| NORTHEAST | 1.28" | -0.71" | 64% | 48th driest | 47.99" | +5.32" | 112% | 18th wettest |
| WEST CENTRAL | 0.09" | -0.88" | 9% | 11th driest | 31.45" | +3.05" | 111% | 15th wettest |
| CENTRAL | 0.97" | -0.60" | 62% | 48th driest | 40.14" | +2.51" | 107% | 22nd wettest |
| EAST CENTRAL | 2.14" | -0.51" | 81% | 37th wettest | 49.35" | +3.21" | 107% | 20th wettest |
| SOUTHWEST | 0.29" | -0.85" | 26% | 27th driest | 34.75" | +4.48" | 115% | 17th wettest |
| SOUTH CENTRAL | 1.97" | -0.23" | 90% | 35th wettest | 38.10" | -2.61" | 94% | 48th wettest |
| SOUTHEAST | 4.24" | +1.01" | 131% | 23rd wettest | 48.83" | -1.76" | 97% | 48th driest |
| STATEWIDE | 1.20" | -0.50" | 70% | 47th driest | 38.61" | +2.14" | 106% | 26th wettest |



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

Dec 16, 2017 through Jan 14, 2018



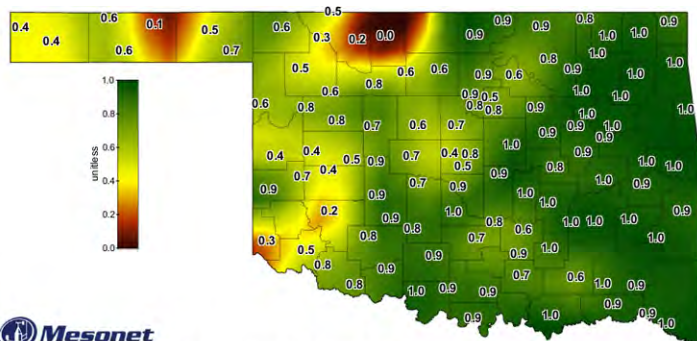
OKLAHOMA CLIMATOLOGICAL SURVEY
Percentage of 1981-2010 Normal Rainfall
Last 365 Days

Jan 15, 2017 through Jan 14, 2018

SOIL MOISTURE

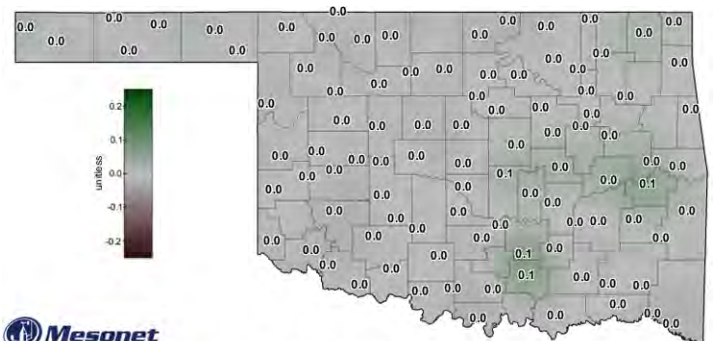
Fractional Water Index

January 14, 2018



Mesonet
1-day Average 10-inch Fractional Water Index
January 14, 2018

Created 6:50:13 AM January 15, 2018 CST. © Copyright 2018



Mesonet
7-day 10-inch Fractional Water Index Change
January 14, 2018

Created 6:50:13 AM January 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 November 2017* | | |
|--------------------------------------|------------------|--------------------|-------|--------------------|--|------------------|------------------|
| Climate Division | Status 1/6/18 | Value 12/14 1/6 | | Change in Value | 3-month | 12-month | 24-month |
| NORTHWEST | Near Normal | 0.81 | -0.1 | 0.91(-) | Near Normal | Moderately Moist | Abnormally Moist |
| NORTH CENTRAL | Near Normal | -0.23 | -0.94 | 0.71(-) | Near Normal | Abnormally Moist | Abnormally Moist |
| NORTHEAST | Near Normal | -0.05 | -0.48 | 0.43(-) | Near Normal | Moderately Moist | Abnormally Moist |
| WEST CENTRAL | Near Normal | 0.25 | -0.54 | 0.79(-) | Near Normal | Moderately Moist | Moderately Moist |
| CENTRAL | Near Normal | -0.01 | -0.46 | 0.45(-) | Near Normal | Moderately Moist | Abnormally Moist |
| EAST CENTRAL | Near Normal | 0.04 | -0.33 | 0.37(-) | Moderately Dry | Abnormally Moist | Abnormally Moist |
| SOUTHWEST | Near Normal | 1.73 | 1.01 | 0.72(-) | Near Normal | Moderately Moist | Extremely Moist |
| SOUTH CENTRAL | Near Normal | -0.98 | -0.63 | 0.35(+) | Moderately Dry | Near Normal | Abnormally Moist |
| SOUTHEAST | Near Normal | -1.01 | -0.3 | 0.71(+) | Exceptionally Dry | Near Normal | Near Normal |

Legend for PDSI:

| | | | | | | |
|-----------------|----------------|------------------|--------------|---------------------|------------------|-----------------|
| | | | | | | |
| extreme drought | severe drought | moderate drought | near normal | unusual moist spell | very moist spell | extremely moist |
| -4.0 or less | -3.0 to -3.9 | -2.0 to -2.9 | -1.9 to +1.9 | +2.0 to +2.9 | +3.0 to +3.9 | +4.0 and above |

Legend for SPI:

| | | | | | | | | | | | |
|-------------------|----------------|----------------|----------------|----------------|----------------|------------------|------------------|----------------|-----------------|---------------------|--|
| | | | | | | | | | | | |
| exceptionally dry | extremely dry | severely dry | moderately dry | abnormally dry | near normal | abnormally moist | moderately moist | very moist | extremely moist | exceptionally moist | |
| -2.00 and below | -1.99 to -1.60 | -1.59 to -1.30 | -1.29 to -0.80 | -0.79 to -0.51 | -0.50 to +0.50 | +0.51 to +0.79 | +0.80 to +1.29 | +1.30 to +1.59 | +1.60 to +1.99 | +2.0 and above | |

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 but since November 11, the PDSI values for all regions have decreased.

**SPI has not been updated to include December 2017.*

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.

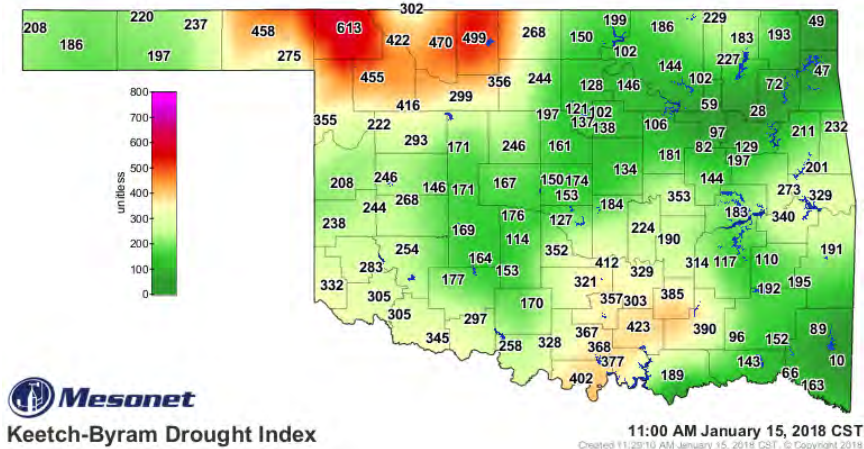
Keetch-Byram Drought Fire Index

January 15, 11:00 a.m.--1 station is above 600.

| STATION | REGION | KBDI |
|---------|-----------|------|
| Buffalo | Northwest | 613 |

One station was above 600 on Dec. 15, 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.



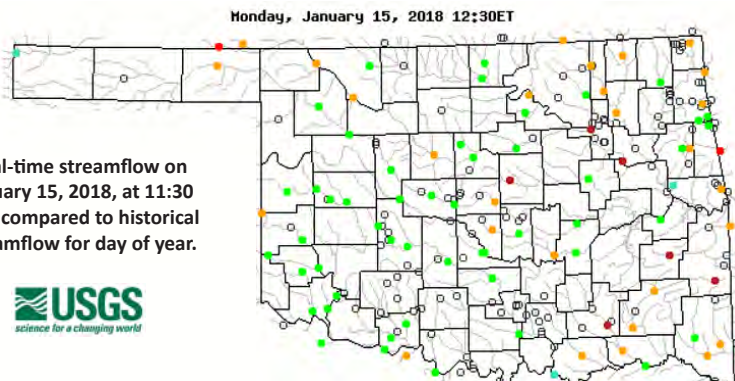
STREAMFLOW CONDITIONS

January 15, 2018

| Explanation - Percentile classes | | | | | | |
|----------------------------------|---|--------------------------------------|--------------------------------|--------------------------------------|---|-------------|
| | | | | | | |
| Low | <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> | High |
| | | | | | | Not ranked |

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

Real-time streamflow on January 15, 2018, at 11:30 a.m. compared to historical streamflow for day of year.



WEATHER/DROUGHT FORECAST

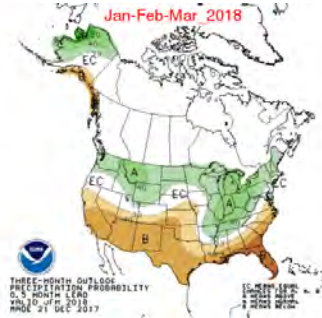
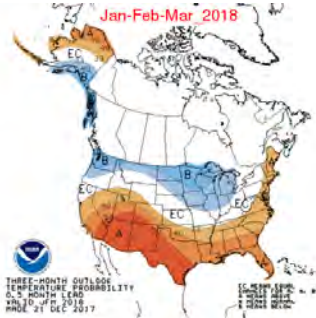
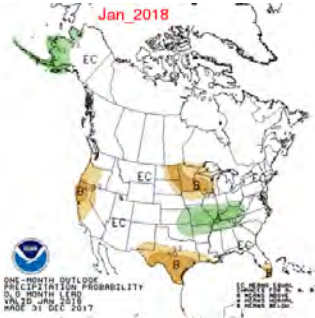
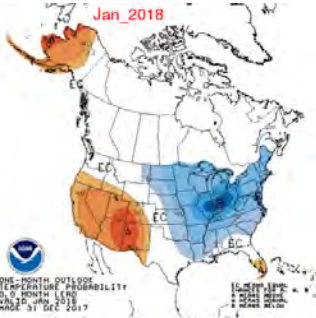
Seasonal Outlook

Temperature

Precipitation

Temperature

Precipitation



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

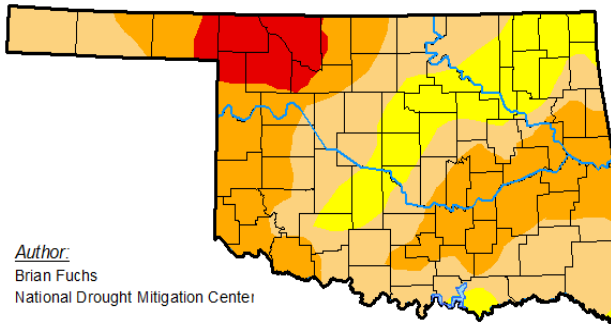
U.S. Drought Monitor Oklahoma

January 9, 2018

(Released Thursday, Jan. 11, 2018)

Valid 7 a.m. EST

Drought Conditions (Percent Area)



| | None | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4 |
|--------------------------------------|-------|--------|-------|-------|-------|------|
| Current | 0.00 | 100.00 | 82.65 | 42.11 | 7.03 | 0.00 |
| Last Week 01-02-2018 | 0.00 | 100.00 | 77.15 | 38.76 | 0.00 | 0.00 |
| 3 Months Ago 10-10-2017 | 68.40 | 31.60 | 11.57 | 0.00 | 0.00 | 0.00 |
| Start of Calendar Year 01-02-2018 | 0.00 | 100.00 | 77.15 | 38.76 | 0.00 | 0.00 |
| Start of Water Year 09-26-2017 | 64.46 | 35.54 | 0.77 | 0.00 | 0.00 | 0.00 |
| One Year Ago 01-10-2017 | 2.81 | 97.19 | 87.61 | 58.35 | 5.66 | 0.00 |

Author:
Brian Fuchs
National Drought Mitigation Center



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

Intensity

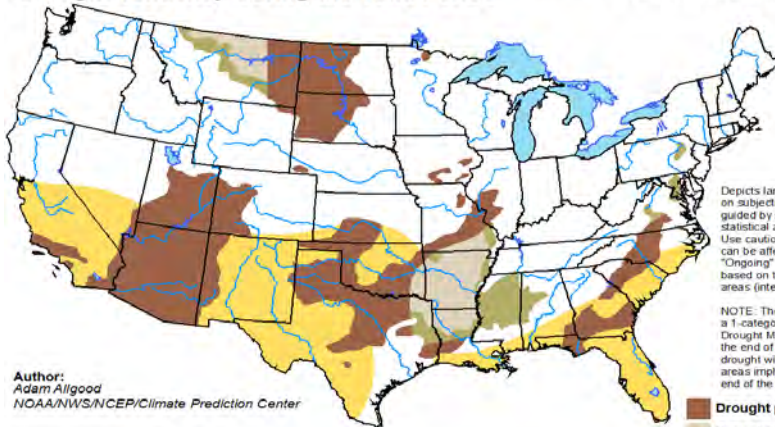
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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

According to the latest *U.S. Drought Monitor*, as of January 9, the number of Oklahomans experiencing drought conditions has risen to 1,706,965, up by more than 500,000 from this time last month. The entire state has abnormally dry conditions or worse. Almost 83% of the state (in area) is experiencing moderate drought conditions (D1) or worse, while more than 42% has severe drought (D2) conditions or worse, and 7% is in extreme drought (D3). There are no areas with exceptional drought (D4) conditions.

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

Valid for December 21 - March 31, 2018
Released December 21, 2017



Author:
Adam Aligood
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>

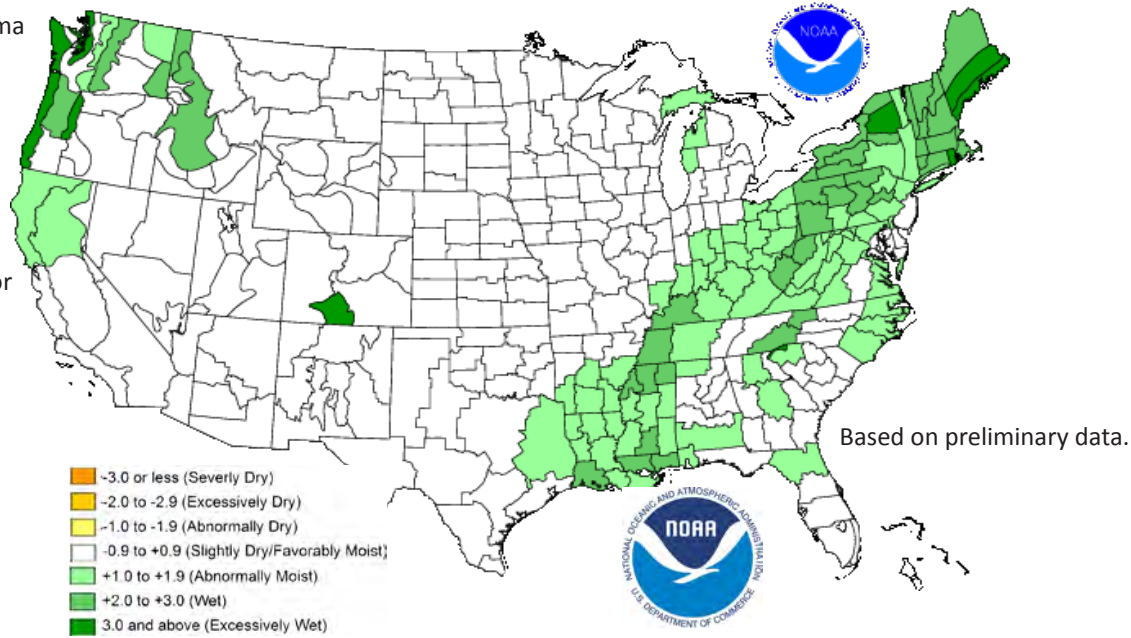
According to the latest seasonal drought outlook for the period of December 21, 2017, through March 31, 2018, a large portion of the state will either remain in persistent drought or develop drought conditions. There are predicted to be multiple areas of persistent drought across the southern half of the United States and a large part of eastern Montana and western North and South Dakota.

CROP MOISTURE INDEX

According to the NOAA Crop Moisture Index by Division, for the period ending January 13, 2018, all Oklahoma climate regions are experiencing Slightly Dry/Favorably Moist conditions (-0.9 to +0.9).

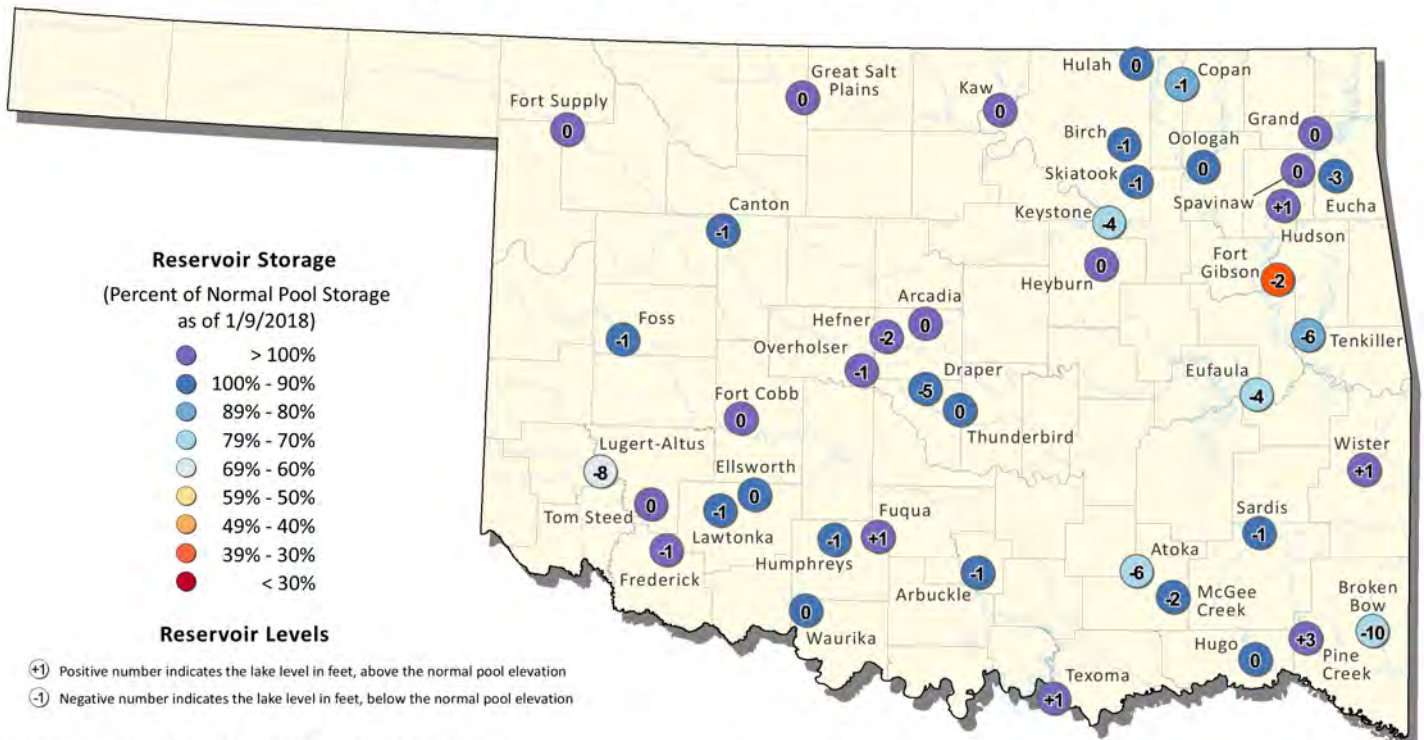
Derived from the Palmer Drought Severity Index (PDSI), the Crop Moisture Index reflects moisture supply in the short-term across major crop-producing regions. It identifies potential agricultural droughts. It is not intended to assess long-term droughts.

Crop Moisture Index by Division
Weekly Value for Period Ending JAN 13, 2018
Short Term Need vs. Available Water in a Shallow Soil Profile

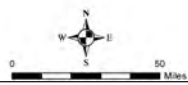


RESERVOIR STORAGE

Oklahoma Surface Water Resources Reservoir Levels and Storage as of 1/9/2018



This map shows reservoir storage as a percentage of normal pool storage capacity. The source information was collected from real-time lake gages monitored by the U.S. Army Corps of Engineers (http://www.swt-wc.usace.army.mil/old_resvprept.htm), and the U.S. Geological Survey (http://waterdata.usgs.gov/ok/nwis/current/?type=lake&group_key=basin_cd). For more information please visit the OWRB's website at: (<http://www.owrb.ok.gov>)



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