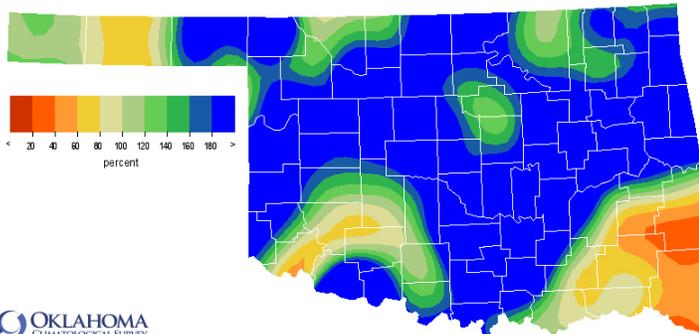


July 27, 2015

## PRECIPITATION

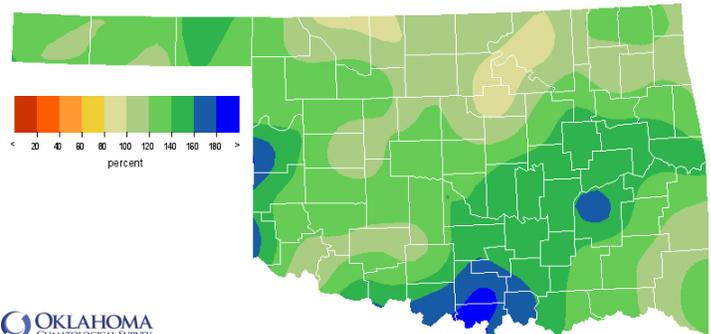
### Statewide Precipitation

| Climate Division | Last 30 Days<br>June 27, 2015 – July 26, 2015 |                                |                   |                 | Last 365 Days<br>July 27, 2014 – July 26, 2015 |                                |                   |                 |
|------------------|-----------------------------------------------|--------------------------------|-------------------|-----------------|------------------------------------------------|--------------------------------|-------------------|-----------------|
|                  | 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        | 3.82"                                         | +1.31"                         | 152%              | 13th wettest    | 26.88"                                         | +6.30"                         | 131%              | 7th wettest     |
| NORTH CENTRAL    | 5.55"                                         | +2.58"                         | 187%              | 4th wettest     | 34.34"                                         | +2.92"                         | 109%              | 19th wettest    |
| NORTHEAST        | 6.46"                                         | +2.97"                         | 185%              | 7th wettest     | 49.51"                                         | +6.84"                         | 116%              | 15th wettest    |
| WEST CENTRAL     | 4.81"                                         | +2.61"                         | 219%              | 7th wettest     | 38.07"                                         | +9.67"                         | 134%              | 6th wettest     |
| CENTRAL          | 5.77"                                         | +2.80"                         | 194%              | 7th wettest     | 47.82"                                         | +10.19"                        | 127%              | 7th wettest     |
| EAST CENTRAL     | 9.45"                                         | +6.20"                         | 291%              | 1st wettest     | 66.86"                                         | +20.72"                        | 145%              | 1st wettest     |
| SOUTHWEST        | 3.50"                                         | +1.05"                         | 143%              | 19th wettest    | 39.24"                                         | +8.97"                         | 130%              | 6th wettest     |
| SOUTH CENTRAL    | 6.93"                                         | +4.05"                         | 241%              | 4th wettest     | 63.40"                                         | +22.69"                        | 156%              | 1st wettest     |
| SOUTHEAST        | 2.23"                                         | -1.43"                         | 61%               | 30th driest     | 62.88"                                         | +12.29"                        | 124%              | 7th wettest     |
| STATEWIDE        | 5.49"                                         | +2.55"                         | 187%              | 6th wettest     | 47.57"                                         | +11.10"                        | 130%              | 1st wettest     |



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

Jun 27, 2015 through Jul 26, 2015  
Created 2015-07-27 10:31 AM UTC. Copyright © 2015

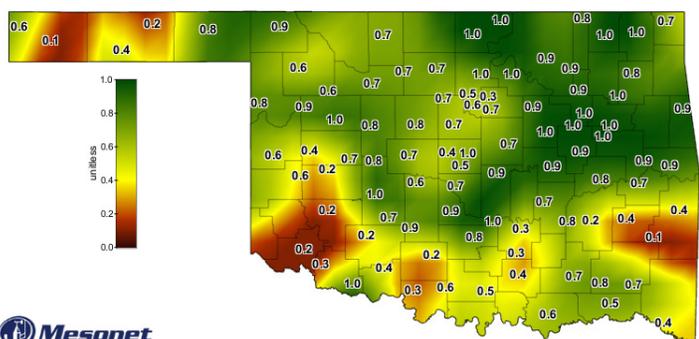


OKLAHOMA CLIMATOLOGICAL SURVEY  
Percentage of 1981-2010 Normal Rainfall  
Last 365 Days

Jul 27, 2014 through Jul 26, 2015  
Created 2015-07-27 10:31 AM UTC. Copyright © 2015

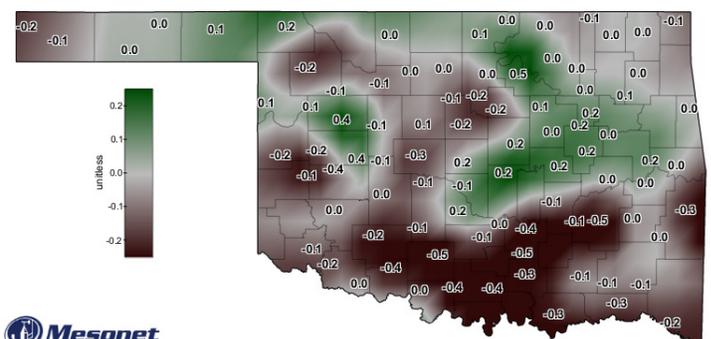
## SOIL MOISTURE

### Fractional Water Index July 26, 2015



Mesonet  
Daily Averaged Fractional Water Index at 10 inches  
July 26, 2015

Created 7:30:13 AM July 27, 2015 CDT. © Copyright 2015



Mesonet  
7-Day Change in Fractional Water Index at 10 inches  
July 26, 2015

Created 6:30:01 AM July 27, 2015 CDT. © Copyright 2015

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

## Standardized Precipitation Index Through June 2015

| Climate Division | Current Status<br>7/18/2015 | Value |      | Change<br>in Value | 3-Month             | 12-Month            | 24-Month         |
|------------------|-----------------------------|-------|------|--------------------|---------------------|---------------------|------------------|
|                  |                             | 6/20  | 7/18 |                    |                     |                     |                  |
| NORTHWEST        | Very Moist Spell            | 3.04  | 3.05 | -0.01              | Extremely Moist     | Moderately Moist    | Abnormally Moist |
| NORTH CENTRAL    | Unusual Moist Spell         | 2.3   | 2.22 | 0.08               | Extremely Moist     | Abnormally Moist    | Abnormally Moist |
| NORTHEAST        | Near Normal                 | 2.03  | 1.58 | 0.45               | Moderately Moist    | Near Normal         | Near Normal      |
| WEST CENTRAL     | Very Moist Spell            | 3.85  | 3.48 | 0.37               | Exceptionally Moist | Moderately Moist    | Moderately Moist |
| CENTRAL          | Very Moist Spell            | 3.79  | 3.27 | 0.52               | Exceptionally Moist | Very Moist          | Moderately Moist |
| EAST CENTRAL     | Extremely Moist             | 4.4   | 4.28 | 0.12               | Exceptionally Moist | Extremely Moist     | Moderately Moist |
| SOUTHWEST        | Very Moist Spell            | 4.38  | 3.84 | 0.54               | Exceptionally Moist | Extremely Moist     | Moderately Moist |
| SOUTH CENTRAL    | Extremely Moist             | 6.09  | 5.92 | 0.17               | Exceptionally Moist | Exceptionally Moist | Very Moist       |
| SOUTHEAST        | Unusual Moist Spell         | 3.56  | 2.59 | 0.97               | Exceptionally Moist | Exceptionally Moist | Very Moist       |

According to the Palmer Drought Severity Index (PDSI), the East Central and South Central climate divisions are currently experiencing extremely moist conditions (+4.0 and above). The Northeast climate division is near normal. The rest of the state is experiencing very moist or unusually moist conditions. All climate divisions except the Northwest have experienced a slight (<1) PDSI moisture decrease since June 20. The PDSI is based upon precipitation, temperature, and soil moisture, and is considered most effective for unirrigated cropland.

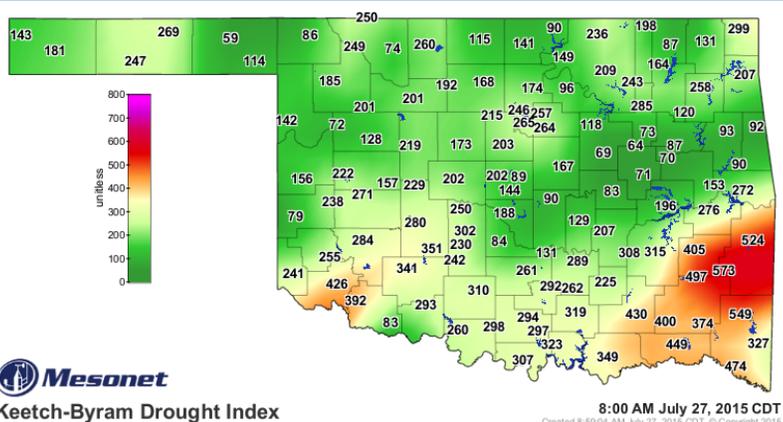
The latest Standardized Precipitation Index (SPI) indicates that the Northeast climate division is experiencing near normal conditions for the 12- and 24-month time periods, but moderately moist conditions for the 3-month period. Every other climate division is experiencing moist conditions (ranging from abnormally moist to exceptionally moist or +.51 to +2 and above) for all three time periods shown. 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

| MESONET STATION | CLIMATE DIVISION | CURRENT VALUE |
|-----------------|------------------|---------------|
| Talihina        | Southeast        | 573           |
| Mt. Herman      | Southeast        | 549           |
| Wister          | Southeast        | 524           |

- Stations currently at or above 600 (July 27) = 0
- Stations above 600 on June 26 = 0

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.



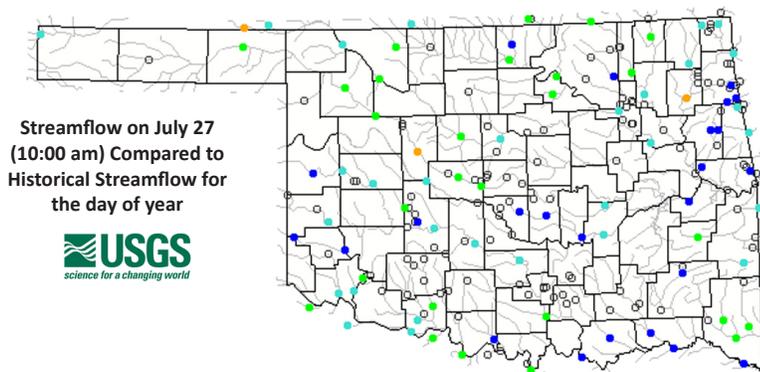
Mesonet  
Keetch-Byram Drought Index

# STREAMFLOW CONDITIONS

July 27, 2015

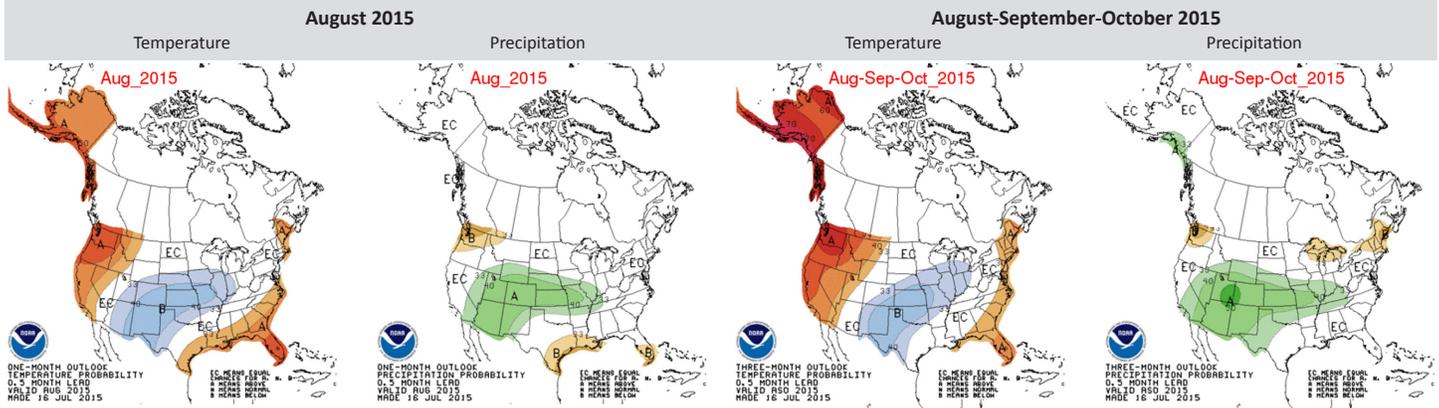
| Explanation - Percentile classes |                   |              |        |              |                   |             |            |   |
|----------------------------------|-------------------|--------------|--------|--------------|-------------------|-------------|------------|---|
| ●                                | ●                 | ●            | ●      | ●            | ●                 | ●           | ●          | ○ |
| <b>Low</b>                       | <10               | 10-24        | 25-75  | 76-90        | >90               | <b>High</b> | Not ranked |   |
|                                  | Much below normal | Below normal | Normal | Above normal | Much above normal |             |            |   |

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



# WEATHER/DROUGHT FORECAST

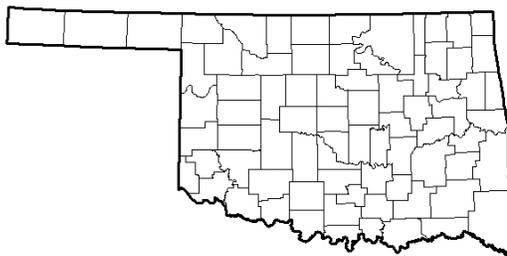
## Seasonal Outlook



A means Above; N means Normal; B means Below; EC means 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/>

**July 21, 2015**  
(Released Thursday, Jul. 23, 2015)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

|                                             | None   | D0-D4 | D1-D4 | D2-D4 | D3-D4 | D4   |
|---------------------------------------------|--------|-------|-------|-------|-------|------|
| <b>Current</b>                              | 100.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 |
| <b>Last Week</b><br>7/14/2015               | 100.00 | 0.00  | 0.00  | 0.00  | 0.00  | 0.00 |
| <b>3 Months Ago</b><br>4/21/2015            | 25.19  | 74.81 | 60.02 | 52.39 | 37.13 | 8.36 |
| <b>Start of Calendar Year</b><br>12/29/2014 | 25.63  | 74.37 | 62.03 | 40.84 | 21.74 | 5.70 |
| <b>Start of Water Year</b><br>9/28/2014     | 8.55   | 91.45 | 73.31 | 58.13 | 20.92 | 4.64 |
| <b>One Year Ago</b><br>7/22/2014            | 10.52  | 89.48 | 75.48 | 60.09 | 23.55 | 5.57 |

**Intensity**

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

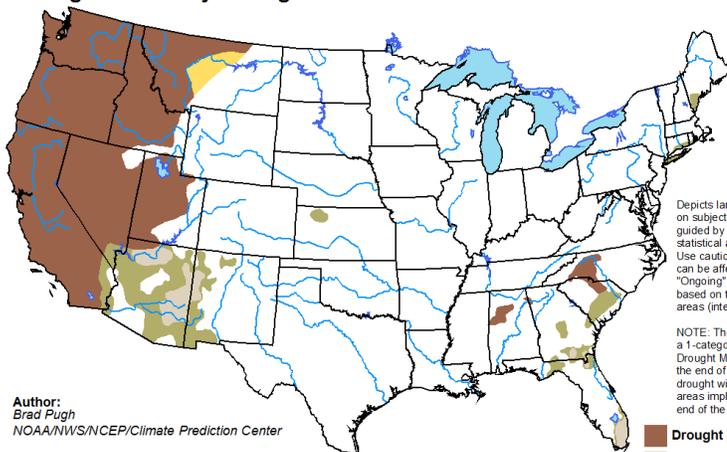
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

According to the U.S. Drought Monitor, the number of Oklahomans currently affected by drought (category D1-D4) has remained at zero, and 0% of the state is experiencing abnormally dry conditions. On this day last year, almost 90% of the state was experiencing abnormally dry conditions or worse, and 5.6% of the state was experiencing Exceptional Drought (D4), the worst drought category.

According to the seasonal drought outlook released on July 16, from mid-July through the end of October, no parts of the state are likely to develop drought conditions.

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

Valid for July 16 - October 31, 2015  
Released July 16, 2015

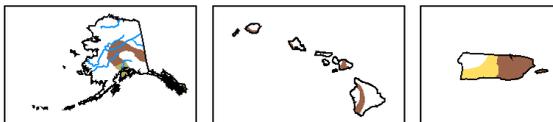


Author:  
Brad Pugh  
NOAA/NWS/NCEP/Climate Prediction Center

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/intensifies
- Drought remains but improves
- Drought removal likely
- Drought development likely

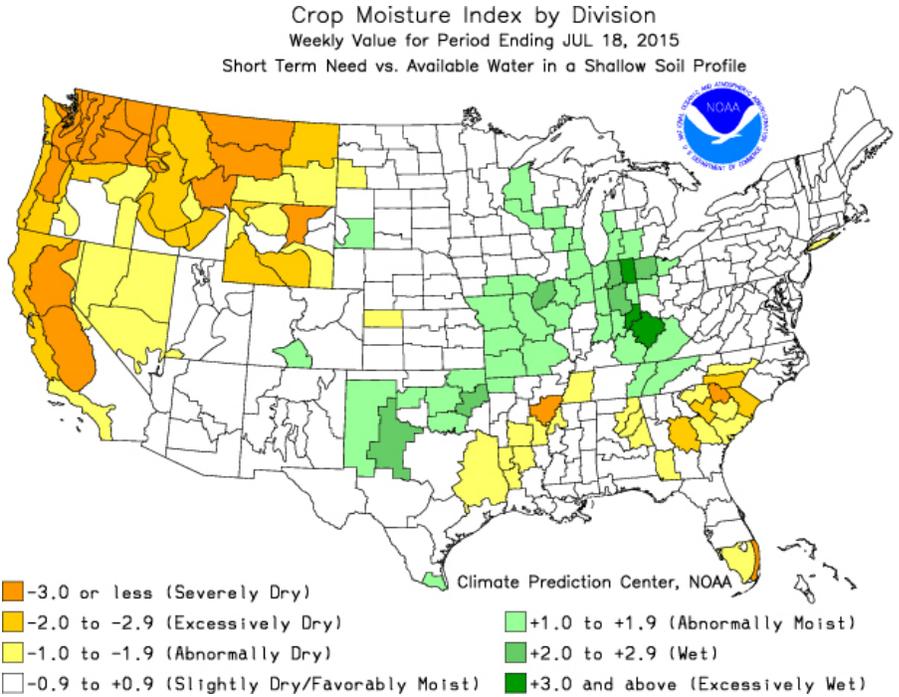


<http://go.usa.gov/hH7e>

# CROP REPORT

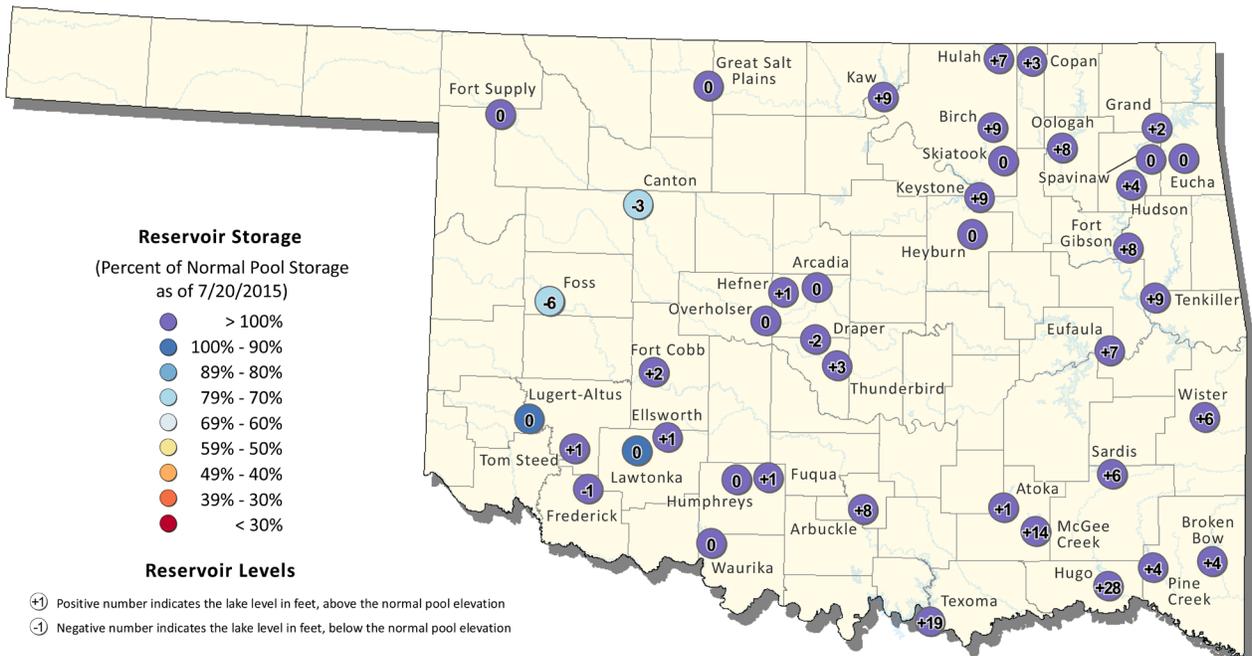
According to the latest USDA Oklahoma Crop Weather report (July 13-19), every district remained well below average temperature and well above average precipitation for the period March 1-July 19, 2015. The East Central and South Central regions were reported as having more than 200% of normal precipitation. Topsoil and subsoil moisture conditions were rated mostly adequate to surplus.

According to the NOAA Crop Moisture Index by Division for the period ending July 18, the East Central region experienced Excessively Wet conditions (+3.0 and above), the Northeast, West Central, Central, and South Central regions experienced abnormally moist conditions, and the rest of the state was near normal. The index is based on short term need vs. available water in a shallow soil profile.



# RESERVOIR STORAGE

## Oklahoma Surface Water Resources Reservoir Levels and Storage as of 7/20/2015



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\\_resvpt.htm](http://www.swt-wc.usace.army.mil/old_resvpt.htm)), and the U.S. Geological Survey ([http://waterdata.usgs.gov/ok/nwis/current/?type=lake&group\\_key=basin\\_cd](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>)

