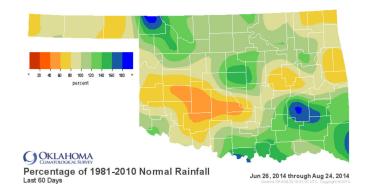
Oklahoma Water Resources Bulletin & Summary of Current Conditions

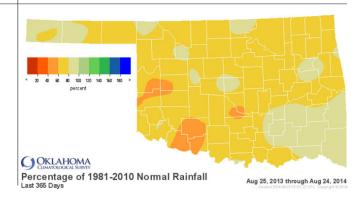


August 25, 2014

PRECIPITATION

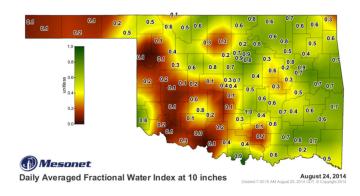
Statewide Precipitation Last 365 Days Last 60 Days June 26 - August 24, 2014 August 25, 2013 - August 24, 2014 TOTAL TOTAL **DEPARTURE** DEPARTURE CLIMATE **PERCENT PERCENT** FROM NORMAL **RANK SINCE 1921** FROM NORMAL **RANK SINCE 1921** RAINFALL RAINFALL **DIVISION** OF NORMAL OF NORMAL (INCHES) (INCHES) (INCHES) (INCHES) Panhandle 5.04" -0.19" 96% 40th wettest 16.14" -4.44" 78% 19th driest North Central 7.37" 23.70" +1.38" 123% 27th wettest -7.72" 75% 20th driest Northeast 44th wettest 6.65" -0.03" 100% -12.23" 71% 10th driest 30.44" West Central 4.07" -0.92" 82% 44th driest 19.49" -8.91" 69% 10th driest 8th driest 6.25" 105% 33rd wettest 70% Central +0.32" 26.51" -11.12" 16th driest East Central 5.89" -0.35" 94% 47th wettest 34.88" -11.26" 76% Southwest 3.98" -0.99" 43rd driest -9.18" 70% 11th driest 80% 21.09" South Central 6.24" +0.94" 118% 27th wettest 30.53" -10.18" 75% 16th driest 8.88" 138% 23rd wettest 92% 36th driest Southeast +2.42" 46.51" -4.08" Statewide 6.08" +0.30" 105% 34th wettest 27.51" -8.96" 75% 14th driest

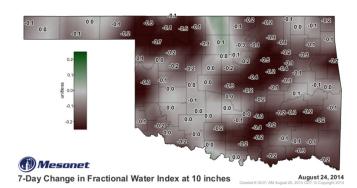




SOIL MOISTURE

Fractional Water Index¹ August 24, 2014





¹The 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

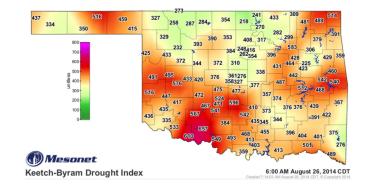
Standardized Precipitation Index³ Palmer Drought Severity Index² Through July 2014 **CURRENT STATUS** VALUE **CHANGE** CLIMATE 3-Month **12-M**ONTH **24-M**ONTH DIVISION 8/16/2014 8/16 7/19 IN VALUE -0.16 MODERATELY DRY Northwest MODERATE DROUGHT -2.74 -2.58 **NEAR NORMAL NEAR NORMAL** 1.08 **NEAR NORMAL** -0.04 **MODERATELY MOIST** North Central **NEAR NORMAL** 1.04 ABNORMALLY DRY Northeast **NEAR NORMAL** -1.18 -1.26 0.08 **NEAR NORMAL** MODERATELY DRY ABNORMALLY DRY West Central SEVERE DROUGHT -2.99 -2.62-0.37MODERATELY MOIST **NEAR NORMAL ABNORMALLY DRY** -1.75 -1 -0.75 **NEAR NORMAL** Central **NEAR NORMAL** ABNORMALLY DRY **NEAR NORMAL** East Central **NEAR NORMAL** -1.09 **NEAR NORMAL** ABNORMALLY DRY -1.36 -0.27**NEAR NORMAL** Southwest SEVERE DROUGHT -3.81 -3.39 -0.42ABNORMALLY MOIST ABNORMALLY DRY **MODERATELY DRY** NEAR NORMAL MODERATELY DRY -1.27-0.85 South Central **NEAR NORMAL** -0.42MODERATLEY DRY NEAR NORMAL 0.03 -0.22 0.25 MODERATELY MOIST Southeast **NEAR NORMAL** NFAR NORMAL

- According to the PDSI, all of western Oklahoma is experiencing drought conditions with severe drought conditions in the West Central and Southwest climate divisions. The rest of the state is classified as near normal; all divisions except Northeast and Southeast have experienced moisture decrease since July 19.
- According to the latest SPI, only the Central, East Central, and Southeast climate divisions are *not* experiencing longer-term dry conditions (through the last two years). No climate divisions show drought conditions for the 3-month time period.

Keetch-Byram Drought Fire Index⁴

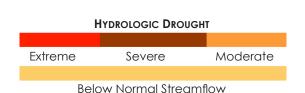
MESONET STATION	CLIMATE DIVISION	CURRENT VALUE 8/26/2014
Walters	Southwest	657
Grandfield	Southwest	610
Washington	Central	596

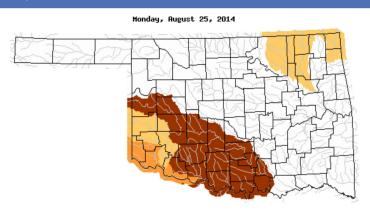
- Stations currently at or above 600 (Aug 26) = 2
- Stations above 600 on July 25 = 0



STREAMFLOW CONDITIONS

August 25, 2014





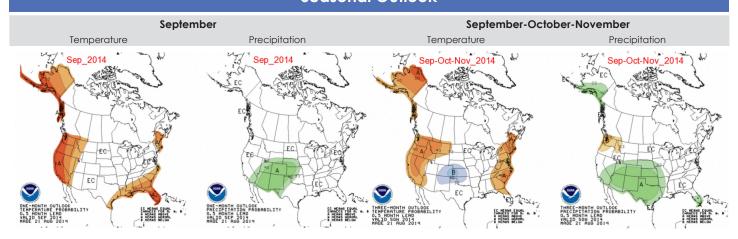
²The Palmer Drought Severity Index is based upon precipitation, temperature, and soil moisture. Though widely used by government agencies and states to trigger drought relief programs, the PDSI may underestimate or overestimate the severity of ongoing dry periods.

³The Standardized Precipitation Index, more sensitive than the PDSI, provides a comparison of precipitation over a specified period with precipitation totals from that same period for all years included in the historical record. The 3-month SPI provides a seasonal estimation of precipitation while the 6-month SPI can be very effective in showing precipitation over distinct seasons.

⁴The 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.

WEATHER/DROUGHT FORECAST

Seasonal Outlook



Regional Drought Summary & Outlook

Drought Conditions (Percent Area)

U.S. Drought Monitor Oklahoma

http://droughtmonitor.unl.edu/

Author: Richard Tinker

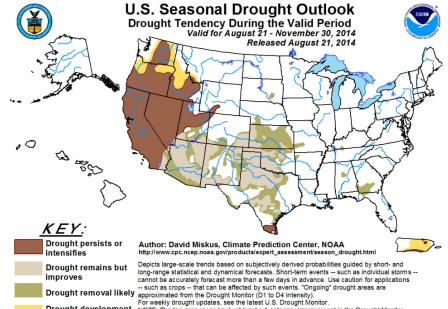
CPC/NOAA/NWS/NCEP



	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	19.52	80.48	71.14	47.11	15.35	2.25
Last Week 8/12/2014	19.56	80.44	71.08	48.39	16.12	2.25
3 Months Ago 5/20/2014	5.78	94.22	81.06	73.26	61.24	34.25
Start of Calendar Year 12/31/2013	50.84	49.16	38.17	18.99	4.84	2.40
Start of Water Year 10/1/2013	21.74	78.26	43.00	17.62	4.42	1.45
One Year Ago 8/20/2013	53.91	46.09	32.82	22.26	9.89	0.54



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



Drought development
NOTE: The tan area 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)

August 25—According to the U.S. Drought Monitor, recent scattered rainfall prompted some improvement in central Oklahoma, central and part of northeastern Texas, and some small areas farther north. However, short-term moisture deficits have increased enough to warrant the introduction of D0 in a swath from south-central Minnesota through eastern Iowa, southwestern Wisconsin, and northwestern Illinois. Less than half of normal precipitation has fallen since midJuly in most of these areas, and 8-week rainfall is 5 to 8 inches below normal in much of the region.

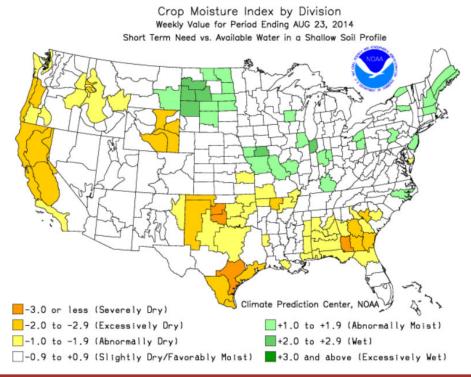
In the past month, Oklahoma has experienced improvement in the Severe to Exceptional Drought (D2-D4) categories, especially in the Panhandle and western half of the state, with less than half as much of the state experiencing Exceptional Drought (down from 5.57% to 2.25% for D4). However, more than 71% of the state still remains in at least Moderate Drought. More than 47% of the state remains classified in Severe Drought or worse, with more than 80% of the state experiencing Abnormally Dry conditions or worse. Parts of the state that are not experiencing dry conditions are all in the East, with the entire Southeast region free from any drought classification.

According to the seasonal drought outlook, during the period between mid-August and the end of November, drought conditions will likely remain but improve in most central and western parts of the state. Much of the eastern part of the state is expected not to experience drought conditions. No areas of the state are expected to experience persistent or intensifying drought conditions or likely drought development.

CROP REPORT

August 25 -High temperatures returned to the state last week, topping 100° F in several areas of the state. The summer heat continued to deplete topsoil and subsoil moisture in areas still behind normal rainfall for the growing season. Minimal rainfall was received, which allowed for hay harvest to make significant progress with good yields and quality reported. Producers in the Southwest District continued to irrigate summer crops; however, more rainfall is needed for irrigation wells. Crop progress in some portions of the Southwest District was slowed due to the excessive heat.

Topsoil and subsoil moisture conditions continued to be rated mostly adequate to short. All row crop conditions continued to be rated mostly good to fair. Conditions of alfalfa hay and other hay continued to be rated mostly good to fair. Conditions of pasture and range were rated mostly good to fair. Stock ponds still need more runoff rainfall and grasshoppers continued to be an issue in some parts of the state.



RESERVOIR STORAGE

Oklahoma Surface Water Resources

Reservoir Levels and Storage as of 8/25/2014

