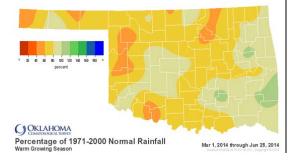
# Oklahoma Water Resources Bulletin & Summary of Current Conditions

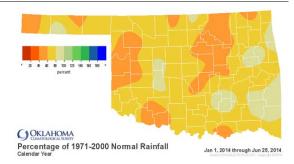


June 26, 2014

### PRECIPITATION

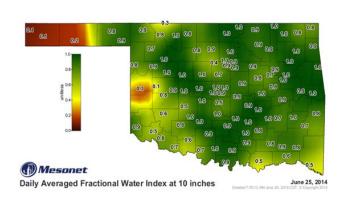
Statewide Precipitation								
	Warm Growing Season March 1 – June 25, 2014				Calendar Year January 1 – June 25, 2014			
CLIMATE DIVISION	TOTAL RAINFALL (INCHES)	Departure From Normal (INCHES)	PERCENT OF NORMAL	RANK SINCE 1921	TOTAL RAINFALL (INCHES)	DEPARTURE FROM NORMAL (INCHES)	PERCENT OF NORMAL	RANK SINCE 1921
Panhandle	5.99"	-3.30"	64%	20th driest	6.49"	-3.96"	62%	15th driest
North Central	9.67"	-3.97"	71%	17th driest	10.30"	-5.49"	65%	11th driest
Northeast	12.76"	-4.24"	75%	16th driest	13.35"	-7.20"	65%	9th driest
West Central	8.83"	-4.29"	67%	18th driest	9.15"	-5.98"	60%	10th driest
Central	11.86"	-4.34"	73%	24th driest	12.32"	-7.12"	63%	12th driest
East Central	15.22"	-3.14"	83%	34th driest	16.57"	-6.35"	72%	11th driest
Southwest	10.64"	-2.73"	80%	32nd driest	10.98"	-4.77"	70%	19th driest
South Central	13.01"	-3.76"	78%	27th driest	14.07"	-6.82"	67%	13th driest
Southeast	18.28"	-0.96"	95%	45th driest	20.49"	-4.71"	81%	19th driest
Statewide	11.73"	-3.50"	77%	18th driest	12.53"	-5.91"	68%	11th driest

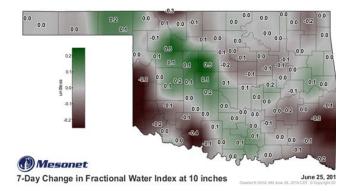




## SOIL MOISTURE

#### Fractional Water Index<sup>1</sup> June 25, 2014





<sup>&</sup>lt;sup>1</sup> 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**

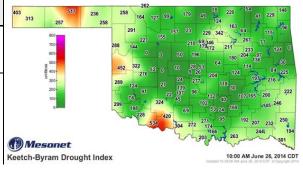
Palmer Drought Severity Index <sup>2</sup>				2 X <sup>2</sup>	Standardized Precipitation Index <sup>3</sup> Through May 2014			
CLIMATE DIVISION	CURRENT STATUS 6/21/2014	VA 6/21	LUE 5/24	CHANGE IN VALUE	3-Монтн	12-Month	24-Month	
Northwest	SEVERE DROUGHT	-2.05	-3.67	-1.62	EXTREMELY DRY	ABNORMALLY DRY	EXTREMELY DRY	
North Central	NEAR NORMAL	0.28	-2.15	-2.43	EXCEPTIONALLY DRY	MODERATELY DRY	EXCEPTIONALLY DRY	
Northeast	NEAR NORMAL	0.49	-1.86	-2.35	EXTREMELY DRY	MODERATELY DRY	SEVERELY DRY	
West Central	SEVERE DROUGHT	0.04	-3.06	-3.1	MODERATELY DRY	MODERATELY DRY	SEVERELY DRY	
Central	NEAR NORMAL	0.3	-1.86	-2.16	EXTREMELY DRY	NEAR NORMAL	ABNORMALLY DRY	
East Central	NEAR NORMAL	0.1	-1.16	-1.26	MODERATELY DRY	ABNORMALLY DRY	MODERATELY DRY	
Southwest	SEVERE DROUGHT	-0.22	-3.5	-3.28	MODERATELY DRY	MODERATELY DRY	SEVERELY DRY	
South Central	NEAR NORMAL	0.39	-1.43	-1.82	MODERATELY DRY	MODERATELY DRY	EXTREMELY DRY	
Southeast	NEAR NORMAL	0.29	-0.68	-0.97	NEAR NORMAL	NEAR NORMAL	ABNORMALLY DRY	

- The Northwest, West Central, and Southwest climate divisions are classified as experiencing severe drought conditions, according to the PDSI. All nine regions have undergone a PDSI moisture decrease since May 24.
- According to the latest SPI, all nine climate divisions are experiencing longer-term dry conditions (through the last two years).

## Keetch-Byram Drought Fire Index<sup>4</sup>

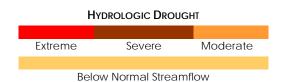
MESONET STATION	Climate Division	Current <b>V</b> alue 6/26/2014
Grandfield	Southwest	534
Hooker	Northwest	517
Cheyenne	West Central	452

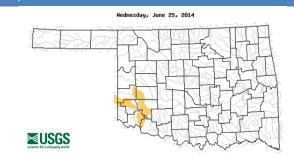
- Stations currently at or above 600 (June 26) = 0
- Stations above 600 on May 27 = 3



#### STREAMFLOW CONDITIONS

#### June 25, 2014



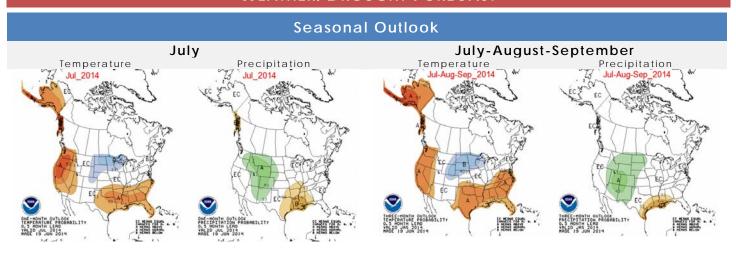


<sup>&</sup>lt;sup>2</sup> The Palmer Drought Severity Index is based upon precipitation, temperature, and soil moisture. Though widely used by government agencies and states to trigger drought relief programs, the PDSI may underestimate or overestimate the severity of ongoing dry periods.

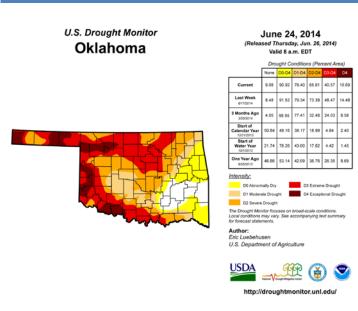
The Standardized Precipitation Index, more sensitive than the PDSI, provides a comparison of precipitation over a specified period with precipitation totals from that same period for all years included in the historical record. The 3-month SPI provides a seasonal estimation of precipitation while the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

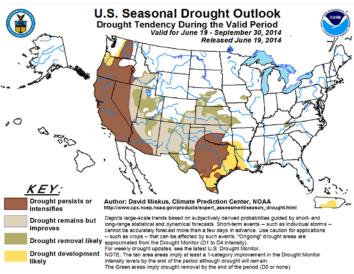
<sup>&</sup>lt;sup>4</sup> The Keetch-Byram Drought Index measures the state of near-surface soil moisture (within the uppermost eight inches of soil) as well as the amount of fuel available for fires. KBDI values of 600 and above are often associated with more severe drought and increased wildfire occurrence.

### WEATHER/DROUGHT FORECAST



#### Regional Drought Summary & Outlook





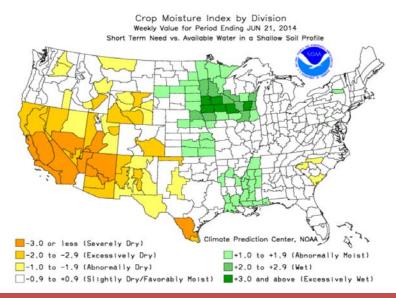
June 24—According to the U.S. Drought Monitor, widespread and ample rains across the southern Plains reduced drought (D1-D4) coverage. In the past month, Oklahoma has experienced significant improvement especially in Severe to Exceptional Drought (D2-D4) throughout the western part of the state. With the late spring and summer months climatologically the wettest time of the year in the Nation's mid-section, the 4 to 8 inches of rain (locally over a foot) that fell during the past 30-days were quite beneficial. Only a few small areas were degraded since mid-May, but did include the Red River Valley of Oklahoma and Texas. Moderate Drought (D1) and Abnormal Dryness (D0) also remained relatively the same in the eastern part of the state, with conditions improving in the central and west central regions.

While the state experienced some improvement during the last month, almost 80 percent of Oklahoma still remains in at least Moderate Drought. More than 10% of the state, primarily in western regions, remains classified in Exceptional Drought, the worst category, with more than 65% of the state in Severe Drought or worse.

According to the latest Drought Outlook, drought is expected to remain throughout the majority of the state except areas in the east, with conditions generally improving in the northern half of the state but intensifying in the south central and southwestern portions of the state.

## CROP REPORT SUMMARY

June 22-The week was mostly sunny and dry with only scattered showers allowing for progress in small grain harvest. According to the Oklahoma Mesonet Rainfall table, Hinton received the most precipitation last week, with a total of 6.33 inches. Average rainfall for the week ranged from 0.09 of an inch in the Southeast District to 0.9 of an inch in the West Central District. Small grain harvest was in full swing and canola harvest was virtually complete. Grasshopper populations continued to increase in various parts of the state. Topsoil and subsoil moisture conditions continued to be rated mostly adequate to short. There were 5.5 days suitable for field work.



## RESERVOIR STORAGE

June 24, 2014

#### Oklahoma Surface Water Resources

Reservoir Levels and Storage as of 6/24/2014

