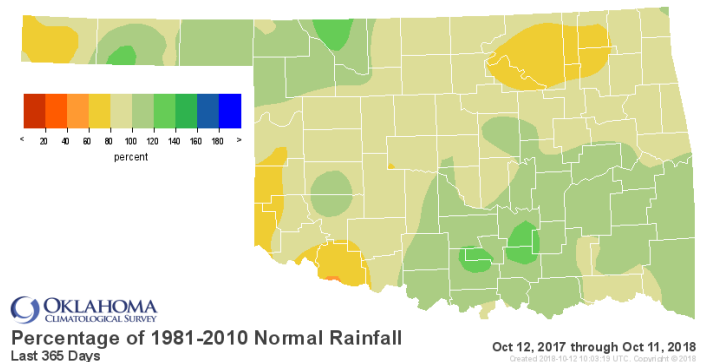
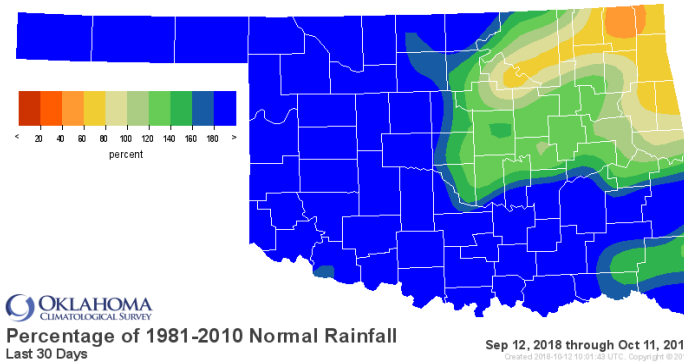


October 12, 2018

## PRECIPITATION

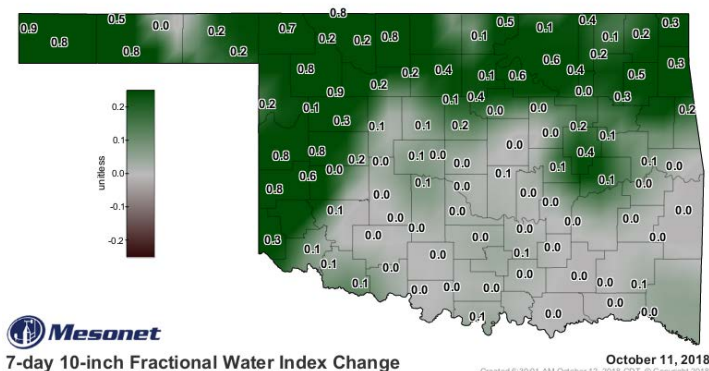
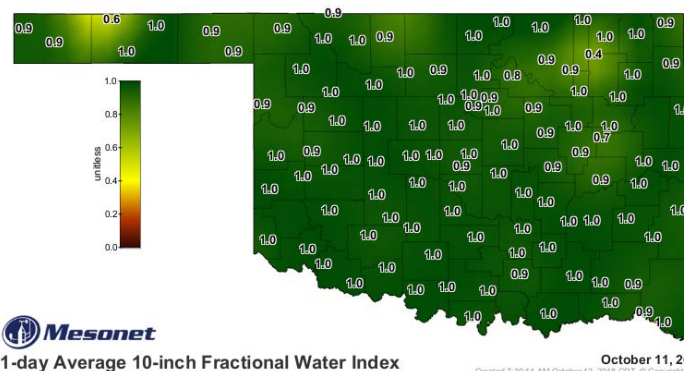
### Statewide Precipitation

Climate Division	Last 30 Days September 12 – October 11, 2018				Last 365 Days October 12, 2017 – October 11, 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	4.29"	+2.61"	256%	5th wettest	20.40"	-0.18"	99%	46th wettest
NORTH CENTRAL	7.46"	+4.47"	249%	6th wettest	30.83"	-0.59"	98%	40th wettest
NORTHEAST	4.45"	+0.09"	102%	32nd wettest	35.43"	-7.24"	83%	29th driest
WEST CENTRAL	8.34"	+5.52"	296%	4th wettest	26.70"	-1.70"	94%	47th wettest
CENTRAL	6.33"	+2.59"	169%	17th wettest	36.52"	-1.11"	97%	39th wettest
EAST CENTRAL	6.16"	+1.53"	133%	20th wettest	45.85"	-0.29"	99%	37th wettest
SOUTHWEST	8.26"	+5.36"	285%	4th wettest	26.18"	-4.09"	86%	40th driest
SOUTH CENTRAL	12.73"	+8.93"	335%	1st wettest	45.79"	+5.08"	112%	19th wettest
SOUTHEAST	7.95"	+3.67"	186%	10th wettest	53.12"	+2.53"	105%	33rd wettest
STATEWIDE	7.27"	+3.79"	209%	8th wettest	35.60"	-0.87"	98%	43rd wettest



## SOIL MOISTURE

### Fractional Water Index October 11, 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 August 2018		
Climate Division	Status 10/6/18	Value		Change in Value	3-month	12-month	24-month
		9/8	10/6				
NORTHWEST	Near Normal	1.46	0.79	0.67(-)	Extremely Moist	Near Normal	Abnormally Moist
NORTH CENTRAL	Near Normal	1.3	0.4	0.9(-)	Moderately Moist	Near Normal	Near Normal
NORTHEAST	Near Normal	-0.07	-0.41	0.34(-)	Near Normal	Abnormally Dry	Near Normal
WEST CENTRAL	Near Normal	-1.44	-0.52	0.92(+)	Abnormally Moist	Abnormally Dry	Near Normal
CENTRAL	Unusual Moist Spell	1.56	2.11	0.55(+)	Moderately Moist	Near Normal	Abnormally Moist
EAST CENTRAL	Near Normal	0.08	1.07	0.99(+)	Near Normal	Near Normal	Near Normal
SOUTHWEST	Near Normal	-1.36	1.62	2.98(+)	Near Normal	Abnormally Dry	Near Normal
SOUTH CENTRAL	Very Moist Spell	0.34	3.57	3.23(+)	Near Normal	Near Normal	Near Normal
SOUTHEAST	Near Normal	0.39	1.77	1.38(+)	Near Normal	Near Normal	Near Normal

extreme drought -4.0 or less	severe drought -3.0 to -3.9	moderate drought -2.0 to -2.9	near normal -1.9 to +1.9	unusual moist spell +2.0 to +2.9	very moist spell +3.0 to +3.9	extremely moist +4.0 and above				
exceptionally dry -2.00 and below	extremely dry -1.99 to -1.60	severely dry -1.59 to -1.30	moderately dry -1.29 to -0.80	abnormally dry -0.79 to -0.51	near normal -0.50 to +0.50	abnormally moist +0.51 to +0.79	moderately moist +0.80 to +1.29	very moist +1.30 to +1.59	extremely moist +1.60 to +1.99	exceptionally moist +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, as of October 6, all climate regions in the state were experiencing near normal conditions except Central, which was unusually moist, and South Central, which was very moist.*

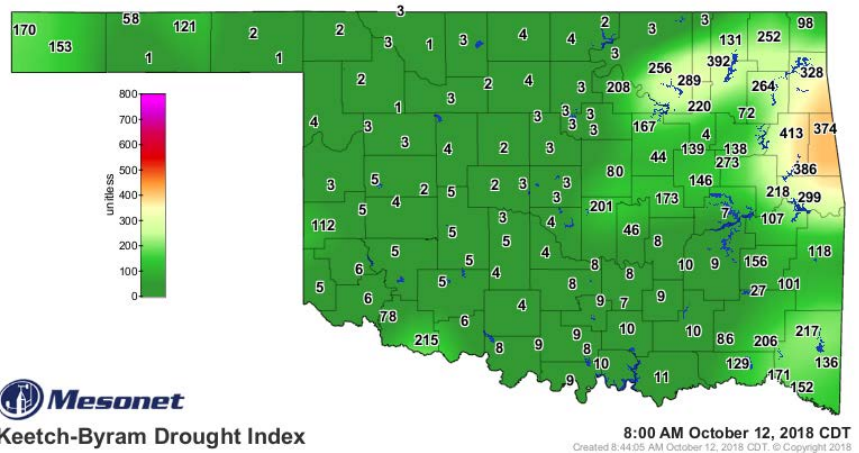
*The SPI provides a comparison of precipitation over several specified periods with totals from the same periods for all years included in the historical record. For the 12-month period, all regions were near normal except Northeast, West Central, and Southwest, which were abnormally dry. For the 3-month and 24-month periods, all regions were near normal or wetter.*

## Keetch-Byram Drought Fire Index

October 12, 8:00 a.m., zero stations are above 600.

Three stations were above 600 on September 14, 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.



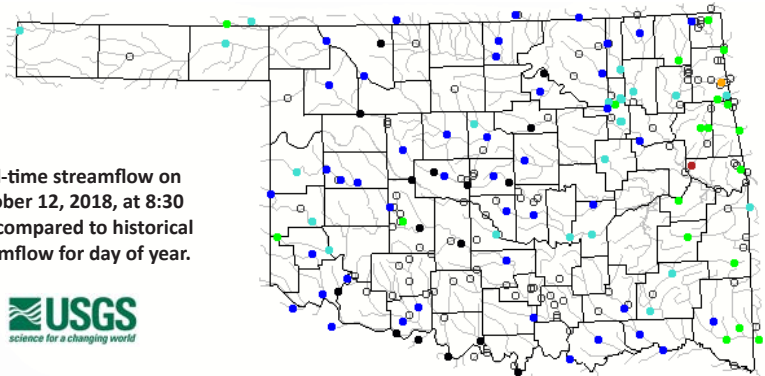
## STREAMFLOW CONDITIONS

October 12, 2018

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

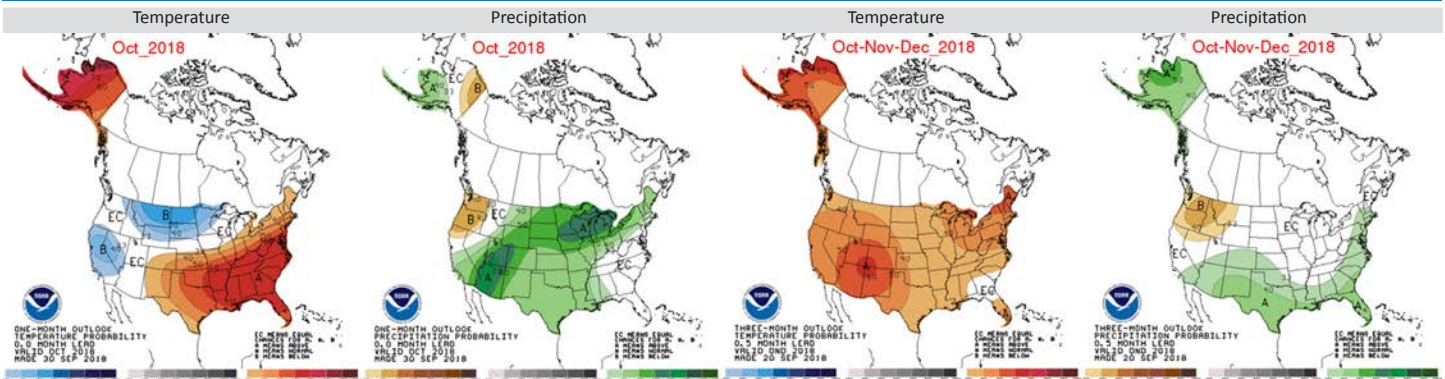
Visit [waterwatch.usgs.gov](http://waterwatch.usgs.gov) for real-time streamflow information.

Real-time streamflow on October 12, 2018, at 8:30 a.m. compared to historical streamflow for day of year.



# WEATHER/DROUGHT FORECAST

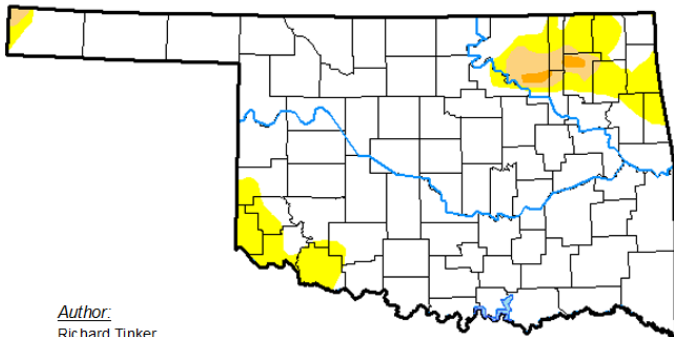
## Seasonal Outlook



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



Author:  
Richard Tinker  
CPC/NOAA/NWS/NCEP



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

**October 9, 2018**

(Released Thursday, Oct. 11, 2018)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	88.12	11.88	2.29	0.37	0.00	0.00
Last Week 10-02-2018	76.55	23.45	8.94	2.91	0.00	0.00
3 Months Ago 07-10-2018	26.26	73.74	51.69	26.91	8.81	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 09-25-2017	72.93	27.07	9.11	4.16	0.00	0.00
One Year Ago 10-10-2017	68.40	31.60	11.57	0.00	0.00	0.00

Intensity:

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

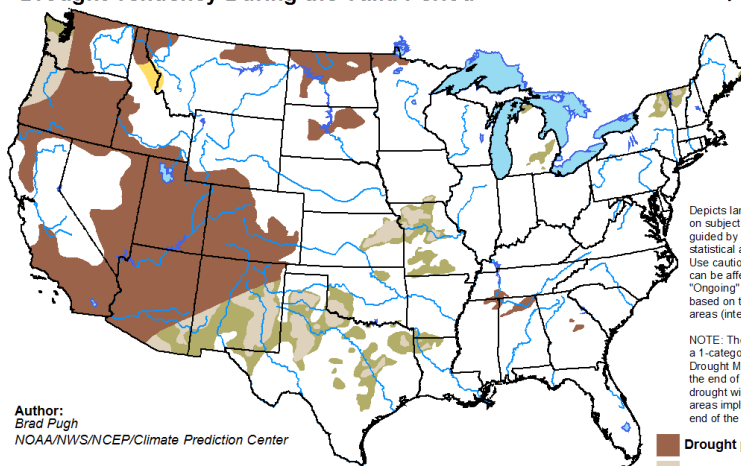
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

According to the latest U.S. Drought Monitor, as of October 9, the estimated Oklahoma population in drought areas was 182,840, which is down by nearly 250,000 from this time last month. Only about 2.3% of the state (in area) is experiencing drought conditions (D1 or worse), down from more than 17% a month ago. Only 0.37% remains in Severe Drought (D2), while 11.88% remains Abnormally Dry (D1).

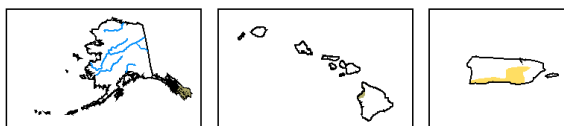
### U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for September 20 - December 31, 2018

Released September 20, 2018



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



- Drought persists
- Drought remains but improves
- Drought removal likely
- Drought development likely



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

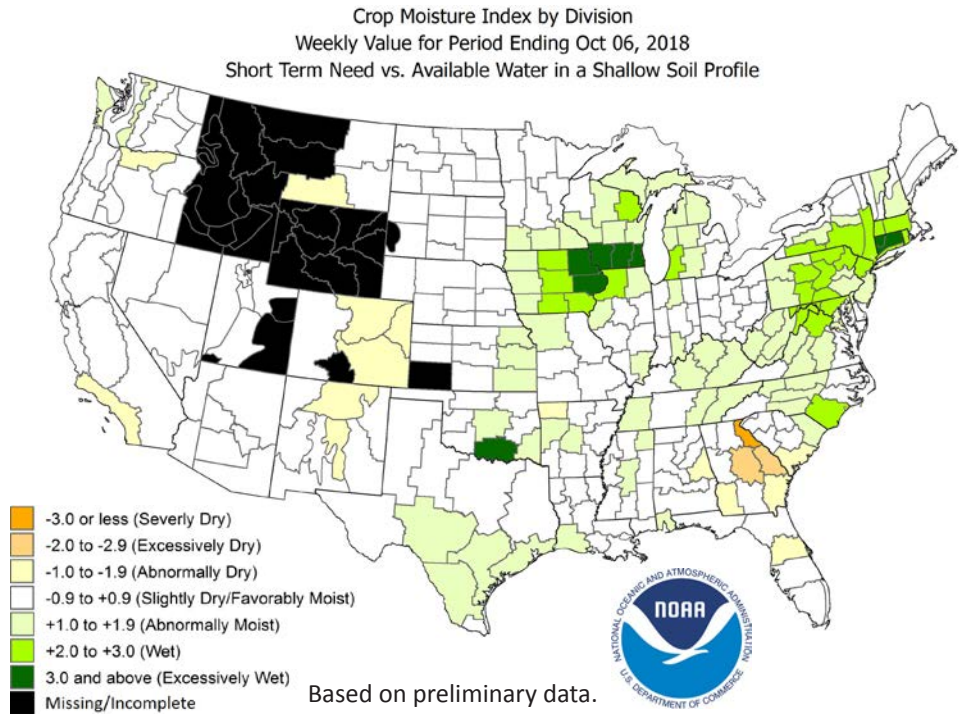
According to the latest seasonal drought outlook for the period of September 20 through December 31, 2018, remaining drought conditions across Oklahoma are predicted to improve. However, drought is predicted to persist in many areas west of Oklahoma.



# CROP MOISTURE INDEX

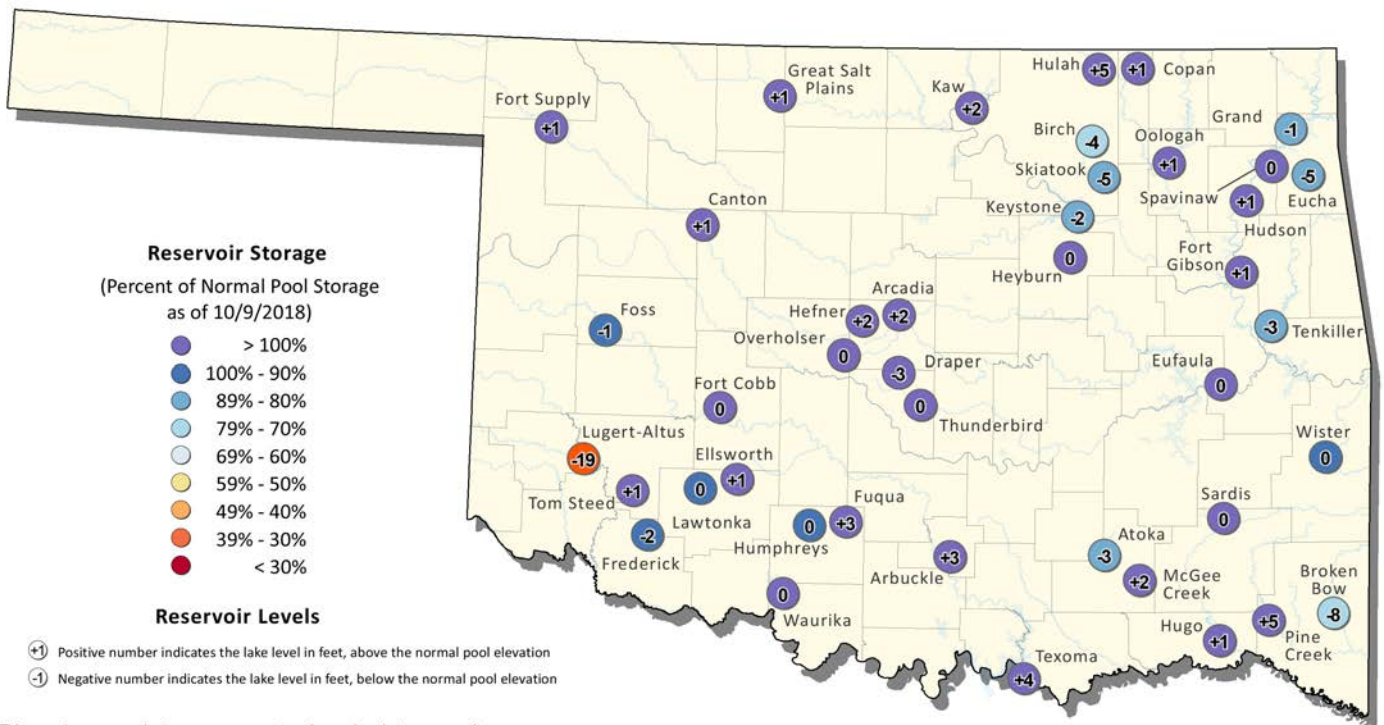
According to the NOAA Crop Moisture Index by Division, for the period ending October 6, 2018, the Central climate region was experiencing Abnormally Moist conditions (+1.0 to +1.9), and the South Central region was experiencing Excessively Wet conditions (3.0 and above), while the rest of the state was 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 10/9/2018



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\\_resv rept.htm](http://www.swt-wc.usace.army.mil/old_resv rept.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>)



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