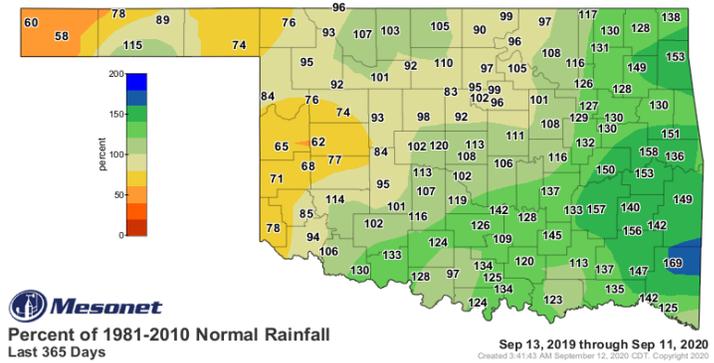
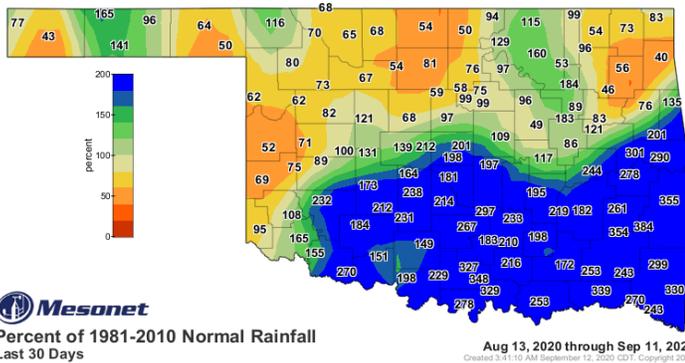


September 12, 2020

## PRECIPITATION

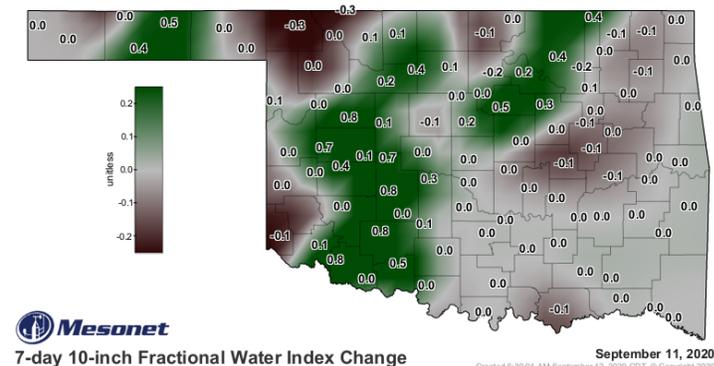
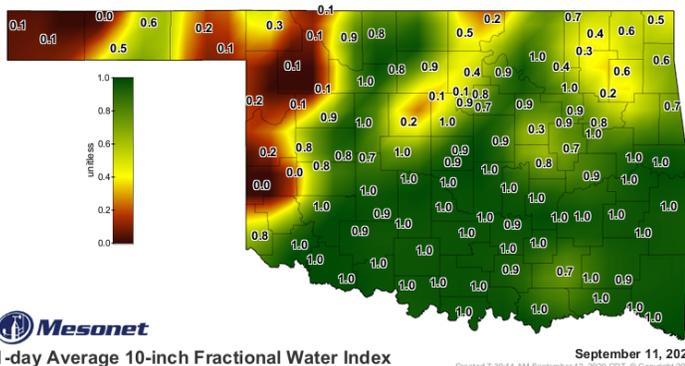
### Statewide Precipitation

Climate Division	August 13, 2020 – September 11, 2020				Last 365 Days September 13, 2019 – September 11, 2020			
	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	2.05"	-0.31"	87%	48th wettest	15.77"	-4.75"	77%	19th driest
NORTH CENTRAL	2.07"	-0.88"	70%	37th driest	30.92"	-0.40"	99%	42nd wettest
NORTHEAST	3.30"	-0.24"	93%	48th wettest	52.77"	+10.25"	124%	9th wettest
WEST CENTRAL	2.41"	-0.47"	84%	48th wettest	21.58"	-6.73"	76%	21st driest
CENTRAL	4.73"	+1.44"	144%	19th wettest	39.88"	+2.37"	106%	25th wettest
EAST CENTRAL	6.90"	+3.43"	199%	6th wettest	64.22"	+18.25"	140%	2nd wettest
SOUTHWEST	4.81"	+1.88"	164%	14th wettest	31.57"	+1.40"	105%	35th wettest
SOUTH CENTRAL	7.33"	+4.15"	231%	1st wettest	50.46"	+9.89"	124%	11th wettest
SOUTHEAST	9.95"	+6.78"	314%	2nd wettest	73.86"	+23.42"	146%	1st wettest
<b>STATEWIDE</b>	<b>4.76"</b>	<b>+1.67"</b>	<b>154%</b>	<b>13th wettest</b>	<b>42.12"</b>	<b>+5.77"</b>	<b>116%</b>	<b>16th wettest</b>



## SOIL MOISTURE

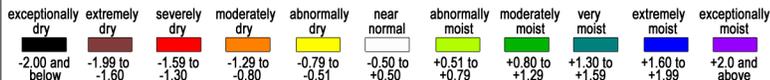
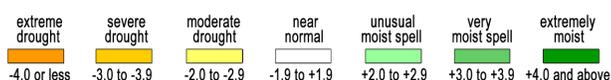
### Fractional Water Index September 11 2020



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

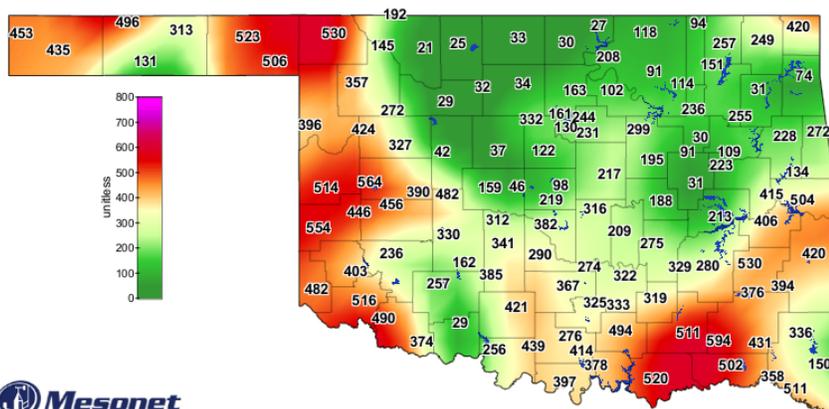
Palmer Drought Severity Index (PDSI)					Standardized Precipitation Index (SPI) Through July 2020		
Climate Division	Status 09/05/20	Value		Change in Value	3-month	12-month	24-month
NORTHWEST	Severe Drought	-2.47	-3.14	0.67(-)	Abnormally Dry	Near Normal	Moderately Moist
NORTH CENTRAL	Near Normal	2.80	1.65	1.15(-)	Near Normal	Moderately Moist	Exceptionally Moist
NORTHEAST	Near Normal	1.59	0.89	0.7(-)	Near Normal	Extremely Moist	Exceptionally Moist
WEST CENTRAL	Moderate Drought	-1.89	-2.33	0.44(-)	Abnormally Dry	Near Normal	Extremely Moist
CENTRAL	Unusual Moist Spell	1.21	2.01	0.8(+)	Near Normal	Moderately Moist	Exceptionally Moist
EAST CENTRAL	Extremely Moist	1.76	4.21	2.45(+)	Near Normal	Extremely Moist	Exceptionally Moist
SOUTHWEST	Near Normal	-0.56	-0.36	0.2(+)	Near Normal	Near Normal	Extremely Moist
SOUTH CENTRAL	Very Moist Spell	0.67	3.08	2.41(+)	Near Normal	Moderately Moist	Exceptionally Moist
SOUTHEAST	Extremely Moist	1.08	4.69	3.61(+)	Near Normal	Very Moist	Exceptionally Moist



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 Sept. 5, the Northwest region was experiencing severe drought conditions, the West Central region had moderate drought conditions, and the rest of the state's regions were near normal or wetter.

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 three-month period, the Northwest and West Central regions were abnormally dry, but the rest of the state was near normal. For the 12-month and 24-month period, all regions were near normal or wetter.

## Keetch-Byram Drought Fire Index



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.



Keetch-Byram Drought Index

10:00 AM August 3, 2020 CDT  
Created 11:14:04 AM August 3, 2020 CDT. © Copyright 2020

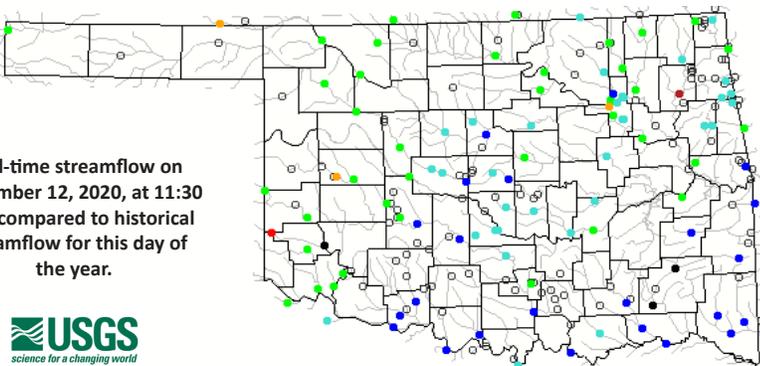
## STREAMFLOW CONDITIONS

September 12, 2020

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 additional real-time streamflow information.

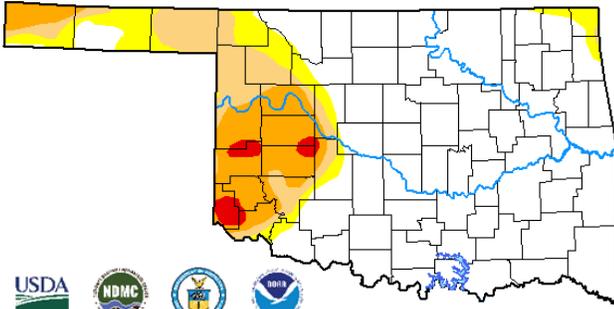
Real-time streamflow on  
September 12, 2020, at 11:30  
a.m. compared to historical  
streamflow for this day of  
the year.



# WEATHER/DROUGHT FORECAST

## Drought Summary for Oklahoma

### U.S. Drought Monitor Oklahoma



**September 8, 2020**  
(Released Thursday, Sept. 10, 2020)  
Valid 7 a.m. EDT

**Intensity:**

- None
- 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.

Author:  
Richard Tinker, NOAA/NWS/NCEP/CPC

**Drought Conditions (percent area)**

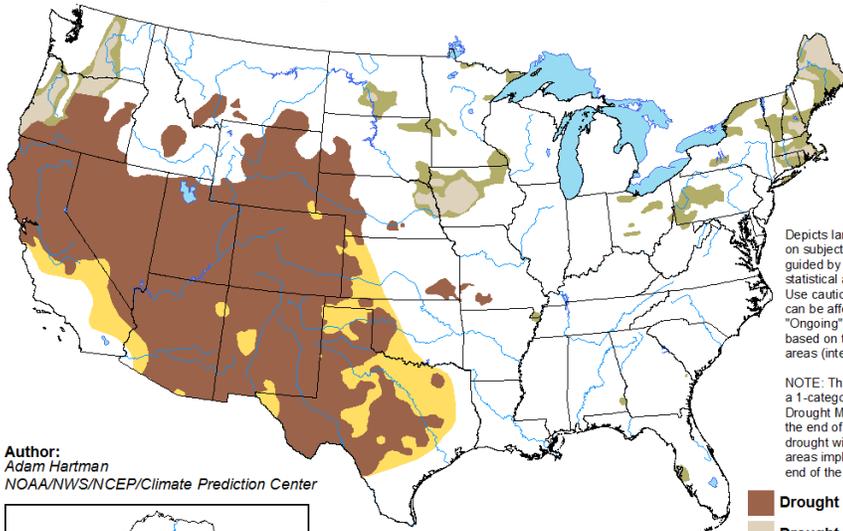
Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2020-09-08	72.62	27.38	20.14	11.32	1.42	0.00	60
Last Week	2020-09-01	72.39	27.61	20.55	12.45	1.66	0.00	62
3 Months Ago	2020-06-09	56.16	43.84	28.02	10.14	3.92	0.00	86
Start of Calendar Year	2019-12-31	76.45	23.55	10.47	3.64	0.00	0.00	38
Start of Water Year	2019-10-01	71.94	28.06	11.08	1.01	0.00	0.00	40
One Year Ago	2019-09-10	60.21	39.79	19.17	7.52	2.82	0.00	69

According to the latest U.S. Drought Monitor, as of September 8, 2020, the estimated Oklahoma population living in areas experiencing drought was 154,211, with 1.42% of the state in area experiencing Extreme Drought conditions or worse, 11.32% experiencing Severe Drought (D2) conditions or worse, and 20.14% experiencing Moderate Drought (D1) conditions or worse, while 27.38% of the state had Abnormally Dry (D0) conditions or worse.

## Drought Probability

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

Valid for August 20 - November 30, 2020  
Released August 20



Author:  
Adam Hartman  
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).

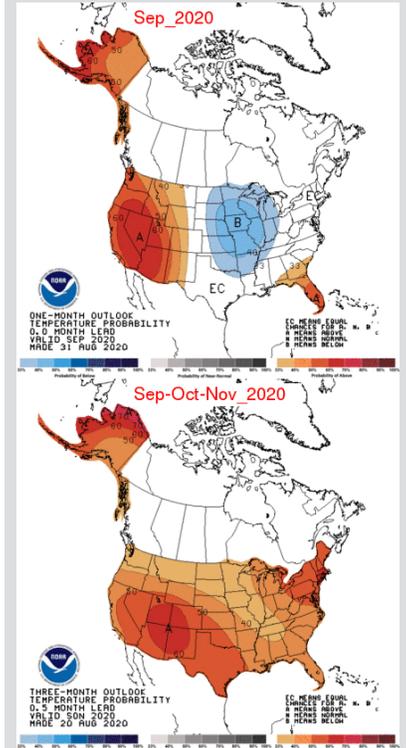
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

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

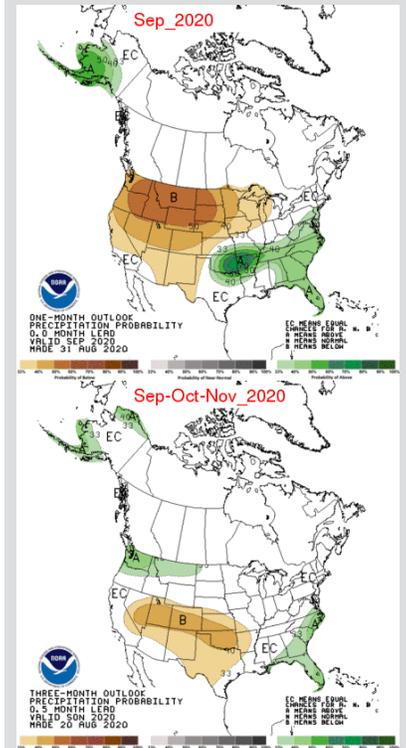
<http://go.usa.gov/3eZ73>

## Seasonal Outlook

### Temperature Probability



### Precipitation Probability



The contours on the maps above show the total probability of three categories. "Above" is indicated by the letter "A"; "Below" is indicated by the letter "B"; "EC" indicates "Equal Chances" for A or B.

# RESERVOIR STORAGE

## Oklahoma Surface Water Resources Reservoir Levels and Storage as of 9/8/2020

