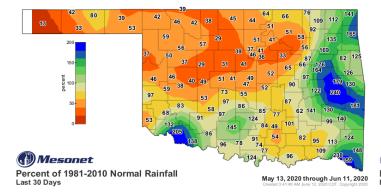
# Oklahoma Water Resources Bulletin & Summary of Current Conditions



June 12, 2020

#### **PRECIPITATION**

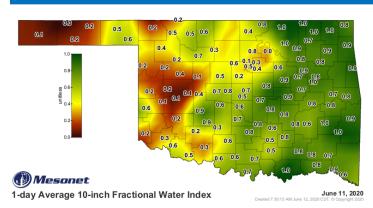
Statewide Precipitation										
	Last 30 Days May 13, 2020 – June 11, 2020					Last 365 Days June 13, 2019 – June 11, 2020				
Climate Division	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	Rank Since 1921	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	RANK SINCE 1921		
PANHANDLE	1.14"	-1.84"	38%	9th driest	15.00"	-5.47"	73%	18th driest		
NORTH CENTRAL	2.07"	-2.49"	45%	14th driest	27.86"	-3.41"	89%	41st driest		
NORTHEAST	5.31"	-0.37"	94%	43rd wettest	57.36"	+14.86"	135%	2nd wettest		
WEST CENTRAL	2.03"	-2.46"	45%	13th driest	21.52"	-6.73"	76%	21st driest		
CENTRAL	2.78"	-2.37"	54%	16th driest	37.61"	+0.15"	100%	32nd wettest		
EAST CENTRAL	6.61"	+0.94"	117%	29th wettest	63.09"	+17.12"	137%	2nd wettest		
SOUTHWEST	3.82"	-0.58"	87%	47th driest	26.06"	-4.07"	87%	37th driest		
SOUTH CENTRAL	4.49"	-0.89"	83%	45th driest	45.93"	+5.38"	113%	19th wettest		
SOUTHEAST	7.76"	+2.06"	136%	20th wettest	65.07"	+14.63"	129%	5th wettest		
STATEWIDE	3.91"	-0.99"	80%	35th driest	39.87"	+3.55"	110%	21st wettest		

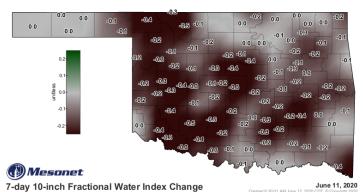




## **SOIL MOISTURE**

### Fractional Water Index June 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.]

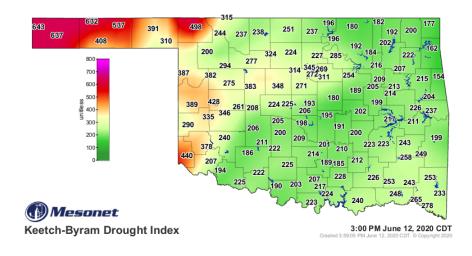
## **DROUGHT INDICES**

Palmer Drought Severity Index (PDSI)					Standardized Precipitation Index (SPI)  Through May 2020					
Climate Division	Status 06/06/20	Val 05/09	lue 06/06	Change in Value	3-month	12-month	24-month			
NORTHWEST	Moderate Drought	-0.04	-2.14	2.1(-)	Moderately Dry	Near Normal	Extremely Moist			
NORTH CENTRAL	Near Normal	2.73	1.02	1.71(-)	Near Normal	Near Normal	<b>Exceptionally Moist</b>			
NORTHEAST	Extremely Moist	4.94	4.22	0.72(-)	Moderately Moist	<b>Exceptionally Moist</b>	<b>Exceptionally Moist</b>			
WEST CENTRAL	Near Normal	0.50	-1.08	1.58(-)	Near Normal	Near Normal	Extremely Moist			
CENTRAL	Unusual Moist Spell	3.97	2.48	1.49(-)	Near Normal	Moderately Moist	Exceptionally Moist			
EAST CENTRAL	Extremely Moist	4.54	4.3	0.24(-)	Very Moist	Exceptionally Moist	<b>Exceptionally Moist</b>			
SOUTHWEST	Near Normal	0.64	0.41	0.23(-)	Near Normal	Near Normal	Very Moist			
SOUTH CENTRAL	Very Moist Spell	3.65	3.08	0.57(-)	Moderately Moist	Moderately Moist	<b>Exceptionally Moist</b>			
SOUTHEAST	EAST Extremely Moist		4.14	0.27(-)	Very Moist	Extremely Moist	Exceptionally Moist			
extreme severe drought drought	moderate near unu drought normal moist	spell moi	st spell	extremely moist 0 and above	exceptionally extremely dry dry dry dry -2.00 and -1.99 to -1.50 to -1.29 to below -1.60 -1.30 -0.80	dry normal moist -0.79 to -0.50 to +0.51 to +0	derately   very   extremely   moist   moist   moist   moist   moist   moist   moist   1.30 to   +1.60 to   +2.0 and   +1.29   +1.59   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 June 6, The Northwest region is experiencing Moderate Drought conditions. The rest of the state is 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 region was Moderately Dry, but the rest of the state was Near Normal or wetter. For the two other time periods shown, all regions were Near Normal or wetter.

## **Keetch-Byram Drought Fire Index**

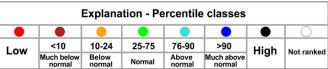


The Keetch-Byram Drought Index measures the state of near-surface soil moisture (within the uppermost eight inches of soil) as well as the amount of fuel available for fires.

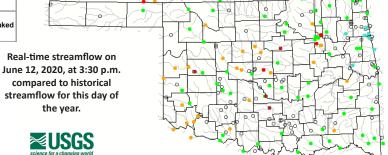
KBDI values of 600 and above are often associated with more severe drought and increased wildfire occurrence.

## **STREAMFLOW CONDITIONS**

#### June 12, 2020

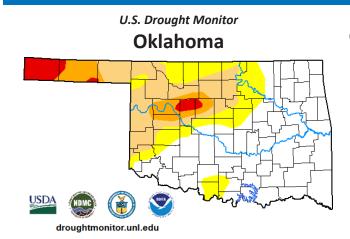


Visit waterwatch.usgs.gov for additional real-time streamflow information.



## WEATHER/DROUGHT FORECAST

#### **Drought Summary for Oklahoma**



#### June 9, 2020 (Released Thursday, June 11, 2020) Valid 7 a.m. EDT



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

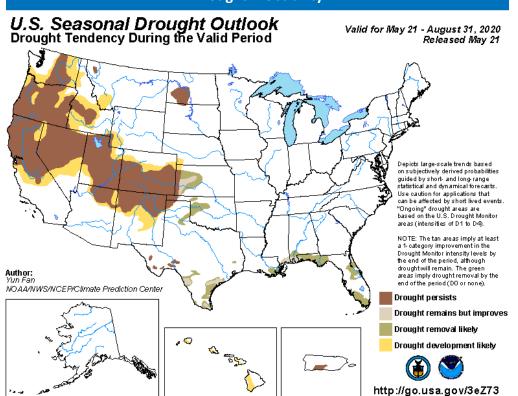
Author: Brad Pugh NOAA/CPC

Drought Conditions (percent area)

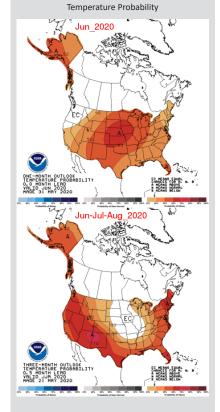
Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2020-06-09	56.16	43.84	28.02	10.14	3.92	0.00	86
Last Week	2020-06-02	70.07	29.93	15.16	5.08	1.72	0.00	52
3 Months Ago	2020-03-10	85.63	14.37	4.66	0.84	0.00	0.00	20
Start of Calendar Year	2019-12-31	76.45	23.55	10.47	3.64	0.00	0.00	38
Start of Water Year	2019-10-01	71.94	28.06	11.08	1.01	0.00	0.00	40
One Year Ago	2019-06-11	100.00	0.00	0.00	0.00	0.00	0.00	0

According to the latest U.S. Drought Monitor, as of June 9, 2020, the estimated Oklahoma population living in areas experiencing drought was 300,997 with 3.92% of the state in area experiencing Extreme Drought (D3-4) conditions, 10.14% experiencing Severe Drought (D2) conditions or worse, and 28.02% experiencing Moderate Drought (D1) or worse. A total of 43.84% of the state has Abnormally Dry (D0) conditions or worse.

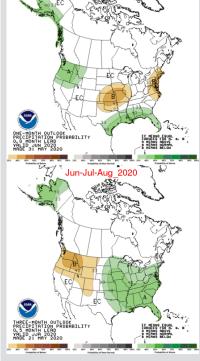
#### **Drought Probability**



#### **Seasonal Outlook**







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 6/8/2020

