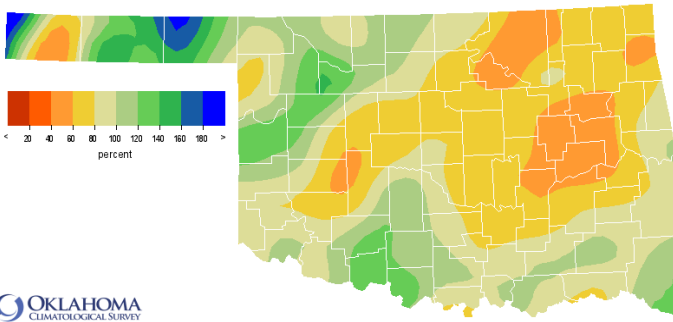


March 21, 2019

PRECIPITATION

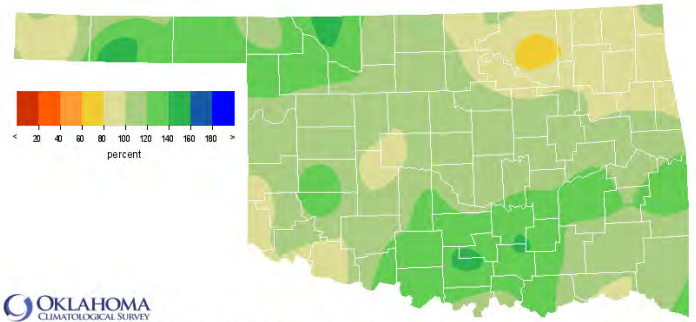
Statewide Precipitation

Climate Division	Last 30 Days February 19, 2019 – March 20, 2019				Last 365 Days March 21, 2018 – March 20, 2019			
	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	1.39"	+0.27"	125%	27th wettest	24.24"	+3.66"	118%	17th wettest
NORTH CENTRAL	2.16"	+0.04"	102%	29th wettest	35.62"	+4.20"	113%	16th wettest
NORTHEAST	1.93"	-1.14"	63%	43rd driest	39.19"	-3.48"	92%	48th driest
WEST CENTRAL	1.93"	+0.03"	101%	32nd wettest	32.88"	+4.48"	116%	14th wettest
CENTRAL	2.13"	-0.53"	80%	42nd wettest	41.63"	+4.00"	111%	16th wettest
EAST CENTRAL	2.26"	-1.22"	65%	41st driest	50.15"	+4.01"	109%	19th wettest
SOUTHWEST	1.90"	-0.14"	93%	35th wettest	32.20"	+1.93"	106%	22nd wettest
SOUTH CENTRAL	2.86"	-0.23"	93%	42nd wettest	52.77"	+12.05"	130%	4th wettest
SOUTHEAST	4.01"	-0.07"	98%	41st wettest	57.55"	+6.96"	114%	18th wettest
STATEWIDE	2.26"	-0.34"	87%	48th wettest	40.63"	+4.16"	111%	17th wettest



OKLAHOMA CLIMATOLOGICAL SURVEY
Percentage of 1981-2010 Normal Rainfall
Last 30 Days

Feb 19, 2019 through Mar 20, 2019
Created 2/19/2019 11:00 AM CST. Copyright © 2019

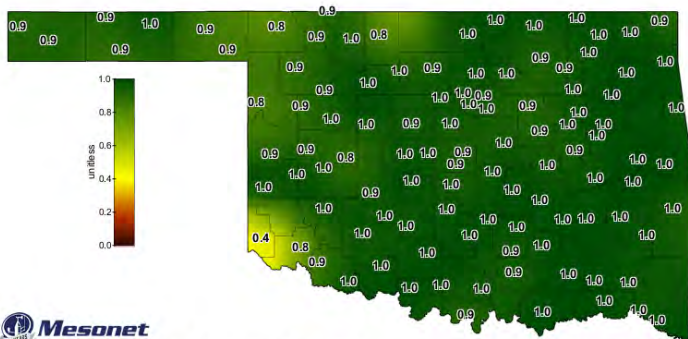


OKLAHOMA CLIMATOLOGICAL SURVEY
Percentage of 1981-2010 Normal Rainfall
Last 365 Days

Mar 21, 2018 through Mar 20, 2019
Created 2/19/2019 11:00 AM CST. Copyright © 2019

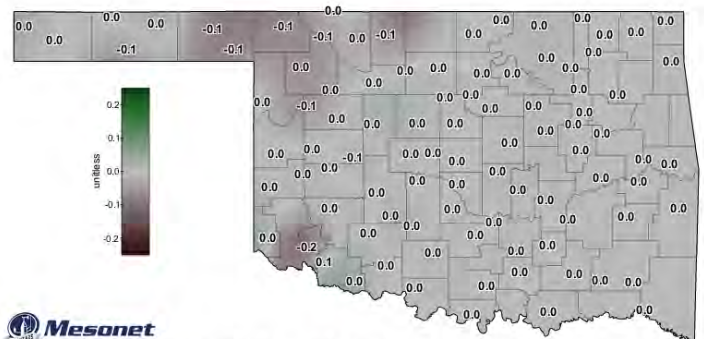
SOIL MOISTURE

Fractional Water Index March 20, 2019



Mesonet
1-day Average 10-inch Fractional Water Index

March 20, 2019
Created 7:30:13 AM March 21, 2019 (CST). © Copyright 2019



Mesonet
7-day 10-inch Fractional Water Index Change

March 20, 2019
Created 8:00:01 AM March 21, 2019 (CST). © Copyright 2019

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 February 2019		
Climate Division	Status 3/16/19	Value 2/09 3/16		Change in Value	3-month	12-month	24-month
NORTHWEST	Very Moist Spell	2.64	3.15	0.51(+)	Abnormally Moist	Very Moist	Moderately Moist
NORTH CENTRAL	Very Moist Spell	3.26	3.75	0.49(+)	Moderately Moist	Moderately Moist	Abnormally Moist
NORTHEAST	Unusual Moist Spell	2.00	2.03	0.03(+)	Very Moist	Near Normal	Abnormally Moist
WEST CENTRAL	Very Moist Spell	2.95	3.4	0.45(+)	Near Normal	Moderately Moist	Moderately Moist
CENTRAL	Very Moist Spell	3.19	3.4	0.21(+)	Very Moist	Moderately Moist	Moderately Moist
EAST CENTRAL	Unusual Moist Spell	2.96	2.86	0.1(-)	Very Moist	Abnormally Moist	Very Moist
SOUTHWEST	Very Moist Spell	3.23	3.64	0.41(+)	Abnormally Moist	Abnormally Moist	Moderately Moist
SOUTH CENTRAL	Extremely Moist	4.61	4.66	0.05(+)	Very Moist	Very Moist	Moderately Moist
SOUTHEAST	Very Moist Spell	3.42	3.73	0.31(+)	Very Moist	Moderately Moist	Moderately Moist

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 February 9, all climate regions in the state were experiencing an unusual moist spell or wetter.

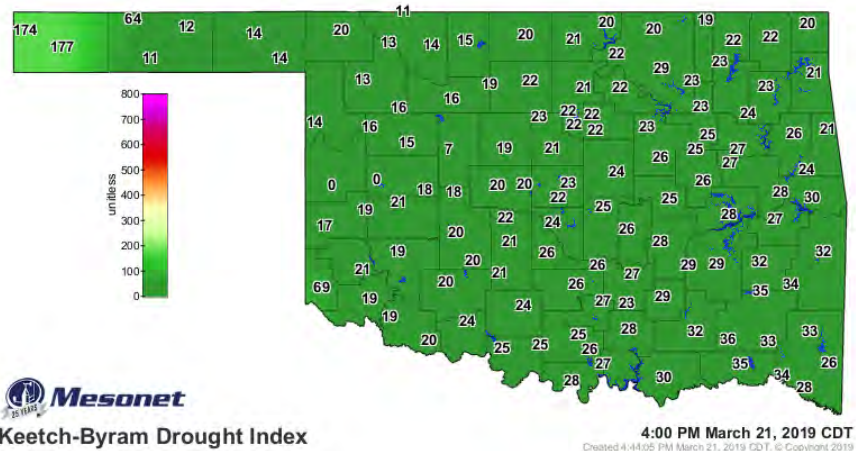
The SPI provides a comparison of precipitation over several specified periods with totals from the same periods for all years included in the historical record. For all three time periods shown, all climate regions were near normal or wetter.

Keetch-Byram Drought Fire Index

March 21, 2019, 4:00 p.m., zero stations are above 600.

Zero stations were above 600 on February 15, 2019.

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

March 21, 2019

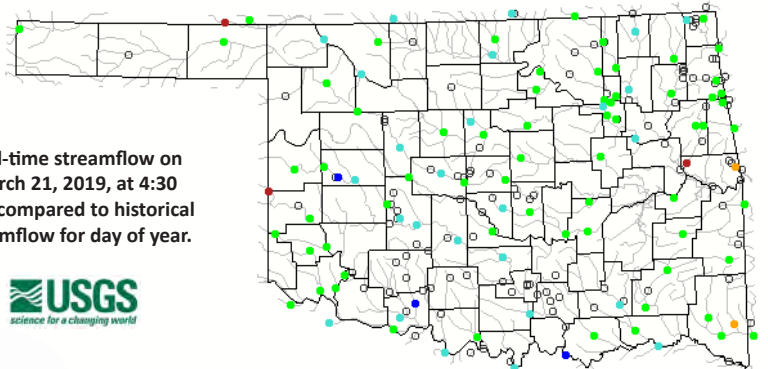
Explanation - Percentile classes						
●	●	●	●	●	●	●
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High
						Not ranked

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

Real-time streamflow on March 21, 2019, at 4:30 p.m. compared to historical streamflow for day of year.

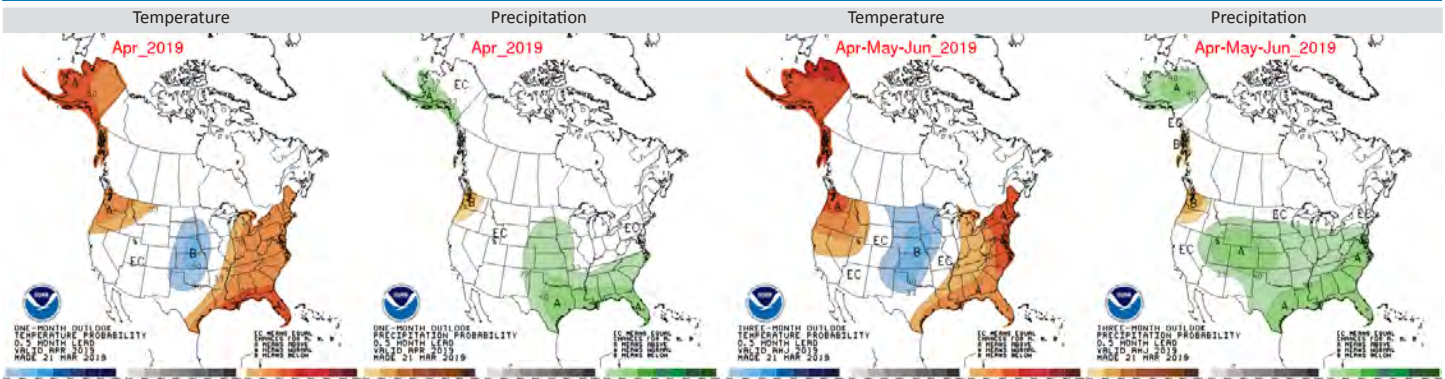


Thursday, March 21, 2019 17:30ET



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:
Jessica Blunden
NCEI/NOAA



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

March 19, 2019
(Released Thursday, Mar. 21, 2019)
Valid 8 a.m. EDT

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	99.36	0.64	0.00	0.00	0.00	0.00
Last Week 03-12-2019	94.05	5.95	0.79	0.00	0.00	0.00
3 Months Ago 12-18-2018	68.41	31.59	5.08	0.00	0.00	0.00
Start of Calendar Year 01-01-2019	94.85	5.15	0.00	0.00	0.00	0.00
Start of Water Year 09-25-2018	72.93	27.07	9.11	4.16	0.00	0.00
One Year Ago 03-20-2018	38.11	61.89	48.50	42.41	34.93	8.20

Intensity:
■ D0 Abnormally Dry ■ D3 Extreme Drought
■ D1 Moderate Drought ■ D4 Exceptional Drought
■ D2 Severe Drought

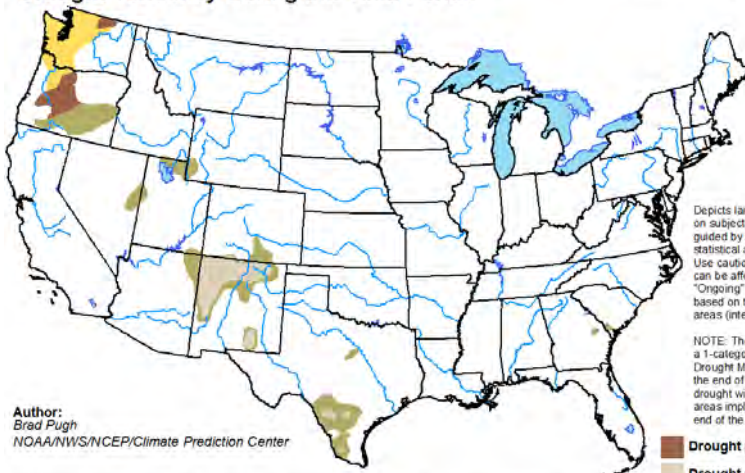
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

According to the latest U.S. Drought Monitor, as of March 19, the estimated Oklahoma population in drought areas is still at zero. Only 0.64% of the state (in area)—in the far southwest corner of the state—has been classified as abnormally dry.

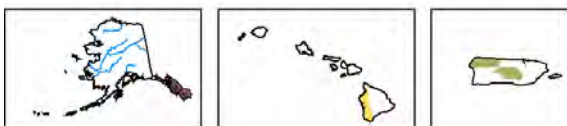
According to the latest seasonal drought outlook for the period of March 21, 2019, through June 30, 2019, Oklahoma is predicted to be unaffected by drought.

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

Valid for March 21 - June 30, 2019
Released March 21



Author:
Brad Pugh
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>

RESERVOIR STORAGE

Oklahoma Surface Water Resources Reservoir Levels and Storage as of 3/19/2019

