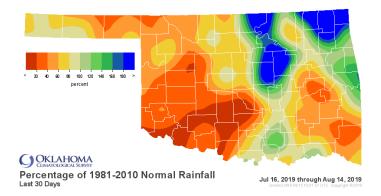
Oklahoma Water Resources Bulletin & Summary of Current Conditions

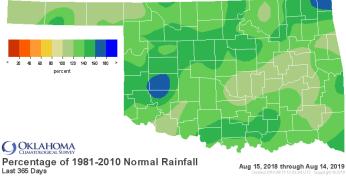


August 15, 2019

PRECIPITATION

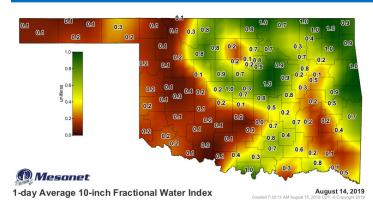
Statewide Precipitation									
Last 30 Days July 16, 2019 – August 14, 2019					Last 365 Days August 15, 2018 – August 14, 2019				
Climate Division	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	Rank Since 1921	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	RANK SINCE 1921	
PANHANDLE	1.59"	-1.03"	61%	23rd driest	23.95"	+3.37"	116%	16th wettest	
NORTH CENTRAL	2.55"	-0.25"	91%	48th wettest	43.11"	+11.69"	137%	3rd wettest	
NORTHEAST	4.62"	+1.48"	147%	23rd wettest	59.08"	+16.41"	138%	4th wettest	
WEST CENTRAL	0.83"	-1.58"	35%	17th driest	43.91"	+15.51"	155%	2nd wettest	
CENTRAL	2.58"	-0.18"	93%	45th wettest	50.29"	+12.66"	134%	4th wettest	
EAST CENTRAL	2.65"	-0.42"	86%	49th driest	54.32"	+8.18"	118%	11th wettest	
SOUTHWEST	0.62"	-1.62"	28%	14th driest	39.91"	+9.64"	132%	8th wettest	
SOUTH CENTRAL	1.70"	-0.68"	72%	38th driest	54.94"	+14.23"	135%	4th wettest	
SOUTHEAST	1.76"	-1.31"	57%	20th driest	64.41"	+13.82"	127%	7th wettest	
STATEWIDE	2.19"	-0.54"	80%	39th driest	48.18"	+11.71"	132%	1st wettest	

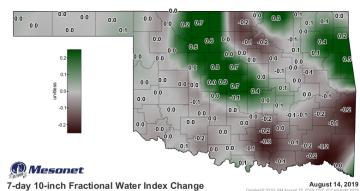




SOIL MOISTURE

Fractional Water Index August 14, 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

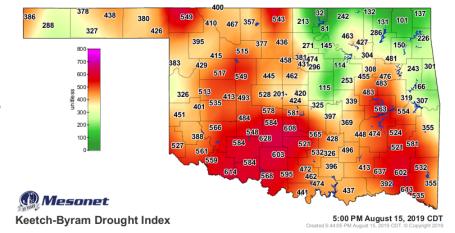
Palmer Drought Severity Index (PDSI)				OSI)	Standardized Precipitation Index (SPI) Through July 2019				
Climate Division	Status 8/10/19	Va 6/08	lue 8/10	Change in Value	3-month	12-month	24-month		
NORTHWEST	Unusual Moist Spell	4.51	2.88	1.63(-)	Moderately Moist	Extremely Moist	Very Moist		
NORTH CENTRAL	Very Moist Spell	6.47	3.48	2.99(-)	Exceptionally Moist	Exceptionally Moist	Extremely Moist		
NORTHEAST	Extremely Moist		4.29	0.48(-)	Exceptionally Moist	Extremely Moist	Abnormally Moist		
WEST CENTRAL	Unusual Moist Spell	6.34	2.65	3.69(-)	Extremely Moist Exceptionally Moist		Extremely Moist		
CENTRAL	Unusual Moist Spell	5.28	2.56	2.72(-)	Extremely Moist	Exceptionally Moist	Extremely Moist		
EAST CENTRAL	Unusual Moist Spell	3.3	2.05	1.25(-)	Moderately Moist	Very Moist	Abnormally Moist		
SOUTHWEST	SOUTHWEST Near Normal		0.30	4.42(-)	Moderately Moist Extremely Moist		Very Moist		
SOUTH CENTRAL	TRAL Near Normal		1.54	3.05(-)	Moderately Moist Exceptionally Moist		Extremely Moist		
SOUTHEAST	SOUTHEAST Unusual Moist Spell		2.56	1.78(-)	Very Moist	Exceptionally Moist	Extremely Moist		
extreme drought severe drought -3.0 to -3.9	drought normal moisi	t spell mo	very jist spell 0 to +3.9	extremely moist +4.0 and above	exceptionally extremely dry dry dry dry -2.00 and -1.99 to -1.59 to -1.29 to -0.80	dry normal moist -0.79 to -0.50 to +0.51 to +0	Description Description		

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 August 10, the Southwest and South Central regions were near normal but the rest of the state's climate regions were above normal.

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 moderately moist or wetter.

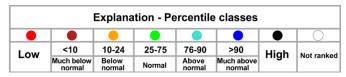
Keetch-Byram Drought Fire Index

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.

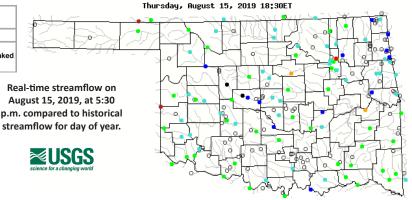


STREAMFLOW CONDITIONS

August 15, 2019

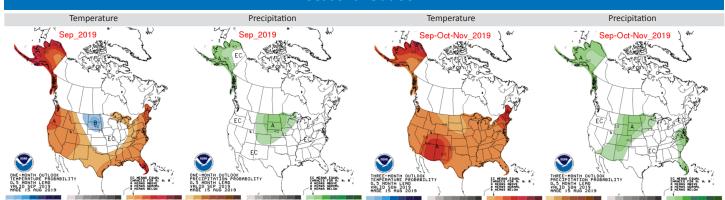


Visit waterwatch.usgs.gov for real-time streamflow information.



WEATHER/DROUGHT FORECAST

Seasonal Outlook

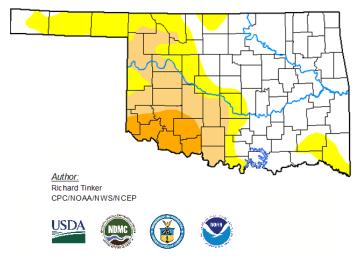


The contours on the maps show the total probability of three categories—above, indicated by the letter "A"; and below, indicated by the letter "B". "EC" indicates "Equal Chances" for A or B.

Drought Summary & Outlook

U.S. Drought Monitor

Oklahoma



droughtmonitor.unl.edu

August 13, 2019

(Released Thursday, Aug. 15, 2019) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	53.29	46.71	23.63	6.91	0.00	0.00
Last Week 08-06-2019	54.55	45.45	15.08	3.70	0.00	0.00
3 Month's Ago 05-14-2019	100.00	0.00	0.00	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 08-14-2018	30.28	69.72	46.86	25.68	6.30	2.55

Intensity:

None

D2 Severe Drought

D0 Abnormally Dry

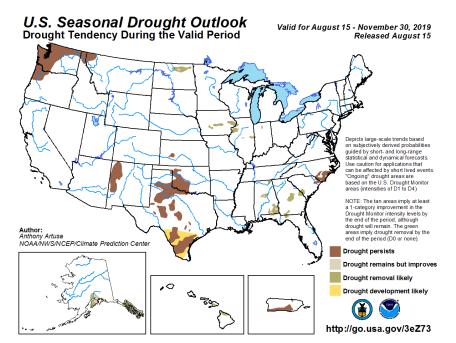
D3 Extreme Drought

D1 Moderate 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 August 13, the estimated Oklahoma population in drought areas was 423,492. In Southwest Oklahoma, 6.91% of the state in area has been moved into the D2 (Severe Drought) intensity classification, and 23.63% of the state is in D1 (Moderate Drought).

According to the latest seasonal drought outlook for the period of August 15, 2019, through November 30, 2019, drought is predicted to persist in southwest Oklahoma.



RESERVOIR STORAGE

Oklahoma Surface Water Resources

Reservoir Levels and Storage as of 8/13/2019

