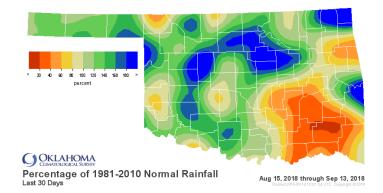
Oklahoma Water Resources Bulletin & Summary of Current Conditions

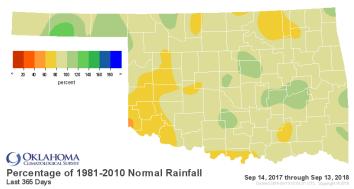


September 14, 2018

PRECIPITATION

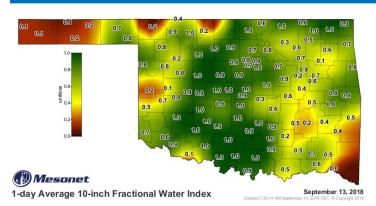
Statewide Precipitation								
	Last 30 Days August 16 – September 13, 2018				Last 365 Days September 14, 2017 – September 13, 2018			
Climate Division	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	Rank Since 1921	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	RANK SINCE 1921
PANHANDLE	2.89"	+0.61"	127%	21st wettest	20.33"	-0.25"	99%	47th wettest
NORTH CENTRAL	3.92"	+0.99"	134%	24th wettest	27.69"	-3.73"	88%	45th driest
NORTHEAST	5.08"	+1.45"	140%	22nd wettest	36.65"	-6.02"	86%	36th driest
WEST CENTRAL	4.35"	+1.49"	152%	19th wettest	23.73"	-4.67"	84%	35th driest
CENTRAL	4.40"	+1.06"	132%	26th wettest	36.08"	-1.55"	96%	41st wettest
EAST CENTRAL	2.89"	-0.74"	80%	44th driest	42.85"	-3.29"	93%	47th wettest
SOUTHWEST	3.59"	+0.64"	122%	27th wettest	24.31"	-5.96"	80%	26th driest
SOUTH CENTRAL	3.00"	-0.30"	91%	45th wettest	36.00"	-4.71"	88%	40th driest
SOUTHEAST	1.68"	-1.61"	51%	16th driest	46.76"	-3.83"	92%	36th driest
STATEWIDE	3.59"	+0.45"	114%	31st wettest	32.80"	-3.67"	90%	43rd driest

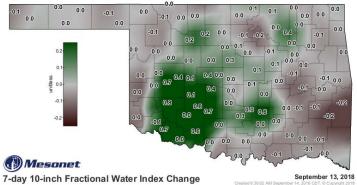




SOIL MOISTURE

Fractional Water Index September 13, 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 9/8/18	Value 8/11 9/8	Change in Value	3-month	12-month	24-month	
NORTHWEST	Near Normal	-0.57 1.46	2.03(+)	Extremely Moist	Near Normal	Abnormally Moist	
NORTH CENTRAL	Near Normal	-1.24 1.3	2.54(+)	Moderately Moist Near Normal Nea		Near Normal	
NORTHEAST	Near Normal	-2.32 -0.03	7 2.25(+)	Near Normal	Abnormally Dry	Near Normal	
WEST CENTRAL	Near Normal	-3.51 -1.44	2.07(+)	Abnormally Moist	Abnormally Dry	Near Normal	
CENTRAL	Near Normal	-0.23 1.56	1.79(+)	Moderately Moist	Near Normal	Abnormally Moist	
EAST CENTRAL	Near Normal	-1.66 0.08	1.74(+)	Near Normal	Near Normal	Near Normal	
SOUTHWEST	Near Normal	-3.61 -1.36	5 2.25(+)	Near Normal	Abnormally Dry	Near Normal	
SOUTH CENTRAL	Near Normal	-2.45 0.34	2.79(+)	Near Normal	Near Normal	Near Normal	
SOUTHEAST	Near Normal	-1.93 0.39	2.32(+)	Near Normal	Near Normal	Near Normal	
extreme drought severe drought -4.0 or less -3.0 to -3.9	moderate near drought normal -2.0 to -2.9 -1.9 to +1.9	unusual very moist spell woist spell +2.0 to +2.9 +3.0 to +3.9	extremely moist +4.0 and above	exceptionally extremely dry dry dry dry dry dry dry dry dry dr	dry normal moist	moist mois	

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 September 8, all climate regions in the state were experiencing near normal conditions.

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.

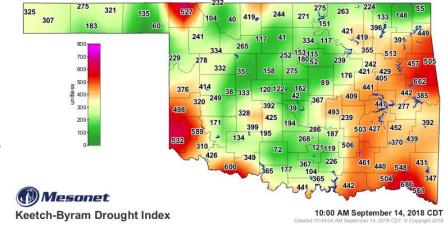
Keetch-Byram Drought Fire Index

September 14, 10:00 a.m.--3 stations are above 600.

STATION	REGION	KBDI
Valliant	Southeast	686
Cookson	East Central	662
Grandfield	Southwest	600

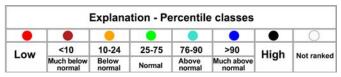
One station was above 600 on August 17, 2018.

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.

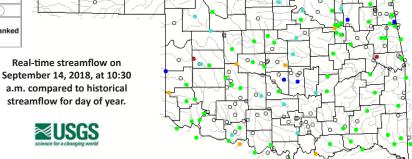


STREAMFLOW CONDITIONS

September 14, 2018

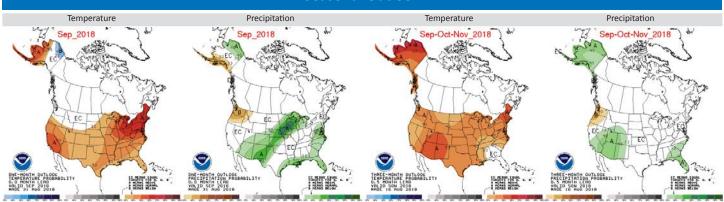


Visit waterwatch.usgs.gov for real-time streamflow information.



WEATHER/DROUGHT FORECAST

Seasonal Outlook

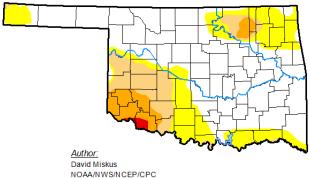


The contours on the maps show the total probability of three categories—above, indicated by the letter "A"; and below, indicated by the letter "B". "EC" indicates "Equal Chances" for A or B.

Drought Summary & Outlook

U.S. Drought Monitor

Oklahoma



http://droughtmonitor.unl.edu/

September 11, 2018 (Released Thursday, Sep. 13, 2018)

(Released Thursday, Sep. 13, 201 Valid 8 a.m. EDT

Drought Conditions (Percent Area)

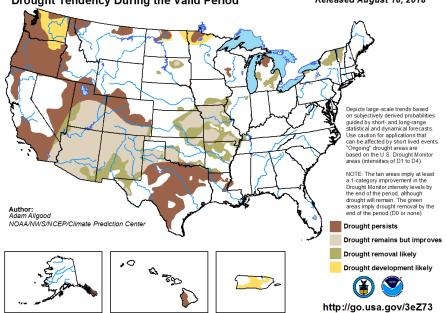
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	60.78	39.22	17.25	6.60	0.57	0.00
Last Week 09-04-2018	56.74	43.26	27.24	16.38	4.69	0.00
3 Month's Ago 06-12-2018	19.29	80.71	50.75	35.76	23.91	2.12
Start of Calendar Year 01-02-2018	0.00	100.00	77.15	38.76	0.00	0.00
Start of Water Year 09-26-2017	64.46	35.54	0.77	0.00	0.00	0.00
One Year Ago 09-12-2017	80.10	19.90	2.04	0.00	0.00	0.00

Intensity:



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

U.S. Seasonal Drought Outlook Prought Tendency During the Valid Period Valid for August 16 - November 30, 2018 Released August 16, 2018



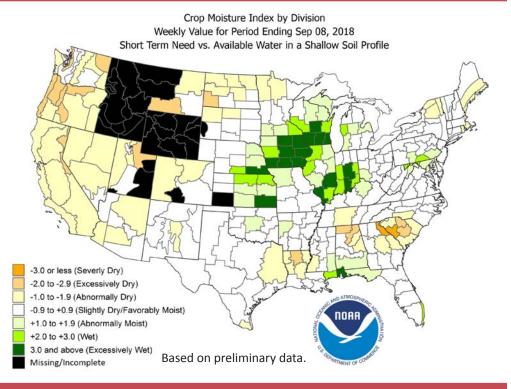
According to the latest U.S. Drought Monitor, as of September 11, the estimated Oklahoma population in drought areas was 425,853, which is down by almost a million from this time last month. Only 17.25% of the state (in area) is experiencing drought conditions, down from 47% a month ago. Only 0.57% of the state has received the Extreme Drought (D3) classification, while 6.6% remains in Severe Drought (D2) or worse and 17.25% is in Moderate Drought (D1) or worse.

According to the latest seasonal drought outlook for the period of August 16 through November 30, 2018, conditions in drought-stricken areas across Oklahoma are predicted to improve. Drought is predicted to persist in many areas in Texas, Colorado, Utah, Nevada, Idaho, and along the Pacific coastline.

CROP MOISTURE INDEX

According to the NOAA Crop Moisture Index by Division, for the period ending September 8, 2018, the Central climate region was experiencing Abnormally Moist conditions (+1.0 to +1.9), while the rest of the state was experiencing Slightly Dry/Favorably Moist conditions (-0.9 to +0.9).

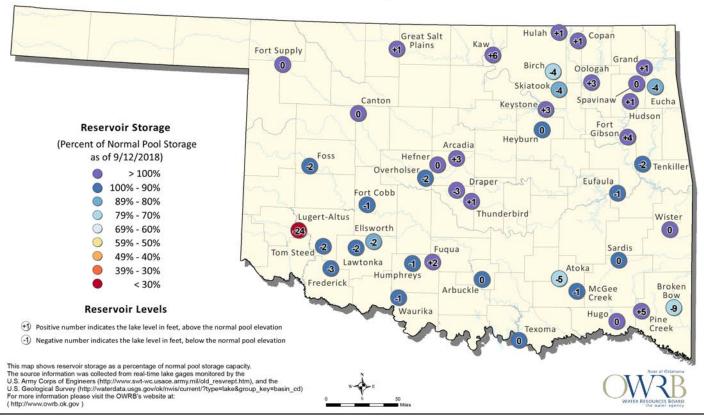
Derived from the Palmer Drought Severity Index (PDSI), the Crop Moisture Index reflects moisture supply in the short-term across major crop-producing regions. It identifies potential agricultural droughts. It is not intended to assess long-term droughts.



RESERVOIR STORAGE

Oklahoma Surface Water Resources

Reservoir Levels and Storage as of 9/12/2018



The Oklahoma Water Resources Bulletin is compiled and distributed monthly by the Oklahoma Water Resources Board utilizing products and information developed by the Oklahoma Climatological Survey, Oklahoma Mesonet, National Oceanic and Atmospheric Administration, National Drought Mitigation Center, US Geological Survey, US Army Corps of Engineers, and US Department of Agriculture. For questions or comments contact Darla Whitley, Editor.