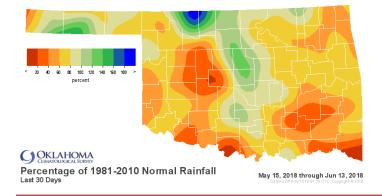
Oklahoma Water Resources Bulletin & Summary of Current Conditions

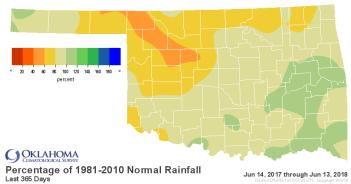


June 14, 2018

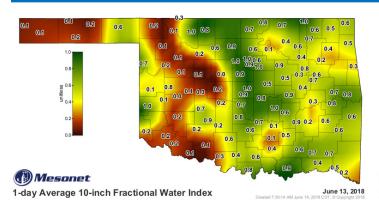
PRECIPITATION

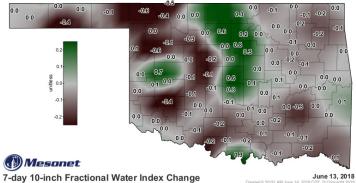
Statewide Precipitation										
	Last 30 Days May 15 – June 13, 2018					Last 365 Days June 14, 2017 – June 13, 2018				
Climate Division	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	Rank Since 1921	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	RANK SINCE 1921		
PANHANDLE	2.55"	-0.48"	84%	35th driest	15.82"	-4.76"	77%	23rd driest		
NORTH CENTRAL	4.42"	-0.18"	96%	47th wettest	22.96"	-8.46"	73%	19th driest		
NORTHEAST	3.95"	-1.71"	70%	27th driest	36.64"	-6.03"	86%	37th driest		
WEST CENTRAL	2.38"	-2.16"	52%	19th driest	20.40"	-8.00"	72%	14th driest		
CENTRAL	4.66"	-0.50"	90%	49th driest	33.55"	-4.08"	89%	49th wettest		
EAST CENTRAL	3.59"	-2.02"	64%	26th driest	47.73"	+1.59"	103%	36th wettest		
SOUTHWEST	2.51"	-1.91"	57%	19th driest	26.41"	-3.86"	87%	38th driest		
SOUTH CENTRAL	3.47"	-1.90"	65%	24th driest	38.46"	-2.25"	94%	45th wettest		
SOUTHEAST	2.38"	-3.19"	43%	13th driest	52.43"	+1.84"	104%	31st wettest		
STATEWIDE	3.43"	-1.46"	70%	25th driest	32.59"	-3.88"	89%	43rd driest		





SOIL MOISTURE





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 May 2018			
Climate Division	Status nate Division 6/9/18		Value 5/5 6/9		3-month	12-month	24-month	
NORTHWEST	Severe Drought	-2.01	-3.27	1.26(-)	Abnormally Dry	Moderately Dry	Near Normal	
NORTH CENTRAL	Near Normal	-1.46	-1.83	0.37(-)	Near Normal	Abnormally Dry	Near Normal	
NORTHEAST	Near Normal	0.17	-1.4	1.57(-)	Moderately Dry	Near Normal	Near Normal	
WEST CENTRAL	Severe Drought	-1.74	-3.33	1.59(-)	Moderately Dry Abnormally Dry		Near Normal	
CENTRAL	Near Normal	1.27	-0.73	2(-)	Abnormally Dry	Near Normal	Near Normal	
EAST CENTRAL	Near Normal	3.44	0.07	3.37(-)	Near Normal	Abnormally Moist	Near Normal	
SOUTHWEST	Moderate Drought	-0.61	-2.2	1.59(-)	Abnormally Dry	Near Normal	Abnormally Moist	
SOUTH CENTRAL	Near Normal	2.24	-0.63	2.87(-)	Near Normal	Near Normal	Near Normal	
SOUTHEAST	Near Normal	2.03	-1.76	3.79(-)	Moderately Dry	Near Normal	al Near Normal	
extreme drought severe drought -4.0 or less -3.0 to -3.9	drought normal mois	st spell mo	very pist spell 0 to +3.9	extremely moist +4.0 and above	exceptionally extremely dry dry dry dry dry dry -2.00 and -1.99 to -1.59 to -1.29 to -0.80	abnormally near abnormally model moist mo -0.79 to -0.50 to +0.51 to +0.81 -0.51 +0.90 +0.79 +1.3	oto +1.30 to +1.60 to +2.0 and	

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, all climate regions in the state are experiencing near normal conditions expect the Northwest and West Central, which are in Severe Drought, and the Southwest, which is experiencing Moderate Drought.

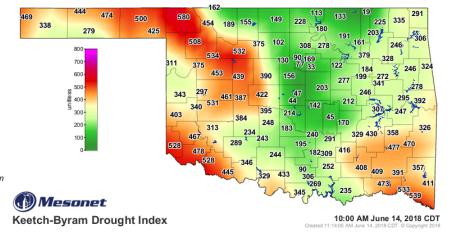
The SPI provides a comparison of precipitation over several specified periods with totals from the same periods for all years included in the historical record. For the 3-month period, all regions are near or below normal. For the 12-month period all regions are near or below normal except the East Central, which is abnormally moist. For the 24-month period, all regions are near normal or wetter.

Keetch-Byram Drought Fire Index

June 14, 10:00 a.m.--0 stations are above 600.

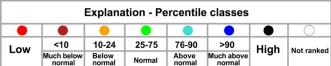
One station was above 600 on May 12, 2018.

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.

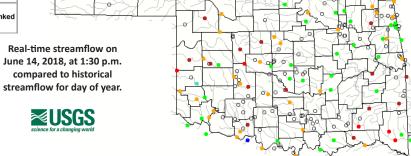


STREAMFLOW CONDITIONS

June 14, 2018

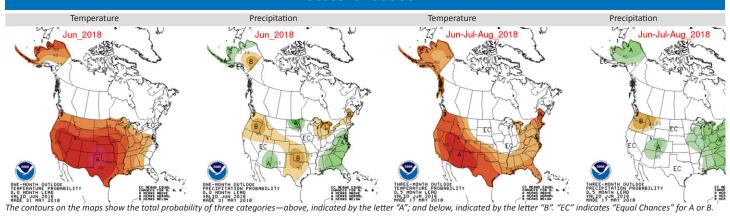


Visit waterwatch.usgs.gov for real-time streamflow information.



WEATHER/DROUGHT FORECAST

Seasonal Outlook



Drought Summary & Outlook

Valid for May 17 - August 31, 2018

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

U.S. Drought Monitor Oklahoma

Author: Brian Fuchs

National Drought Mitigation Center





U.S. Seasonal Drought Outlook



http://droughtmonitor.unl.edu/

June 12, 2018 (Released Thursday, Jun. 14, 2018) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	19.29	80.71	50.75	35.76	23.91	2.12
Last Week 06-05-2018	31.17	68.83	46.44	40.55	27.84	6.60
3 Month's Ago 03-13-2018	31.35	68.65	48.50	42.41	34.93	8.20
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 06-13-2017	79.33	20.67	1.26	0.00	0.00	0.00

| D0 Abnormally Dry | D3 Extreme Drought | D1 Moderate Drought | D4 Exceptional Drought | D2 Severe Drought | D3 Extreme Drought | D4 Exceptional Drought | D5 Exceptional Drought | D6 Exceptional Drought | D7 Exceptional Drought | D8 Exceptional

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

Drought Tendency During the Valid Period

Released May 17, 2018

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 living events 'Ongoing' drought areas are as imply drought will ermain. The green areas imply drought removal 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 period (D0 or none).

Drought period (D0 or none).

Drought removal likely

Drought development likely

Drought development likely

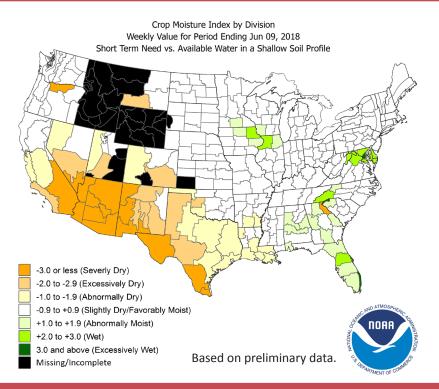
According to the latest U.S. Drought Monitor, as of June 12, the estimated Oklahoma population in drought areas is 624,394, down slightly from this time last month. More than 2% of the state (in area) is in exceptional drought (D4), the driest category, including large portions of Woodward and Major counties. Almost 24% of the state is in extreme drought (D3) or worse, while almost 36% is in severe drought (D2) or worse and almost 51% is in moderate drought (D1) or worse. Almost 81% of the state has Abnormally Dry (D0) conditions or worse.

According to the latest seasonal drought outlook for the period of May 17 through August 31, 2018, the western half of Oklahoma will have improved conditions, while states to the west will likely remain in persistent drought.

CROP MOISTURE INDEX

According to the NOAA Crop Moisture Index by Division, for the period ending June 9, 2018, most Oklahoma climate regions were experiencing Slightly Dry/Favorably Moist conditions (-0.9 to +0.9), but in the Northwest and Southwest regions, conditions were Abnormally Dry (-1.0 to -1.9), and in the West Central region, conditions were Excessively Dry (-2.0 to -2.9).

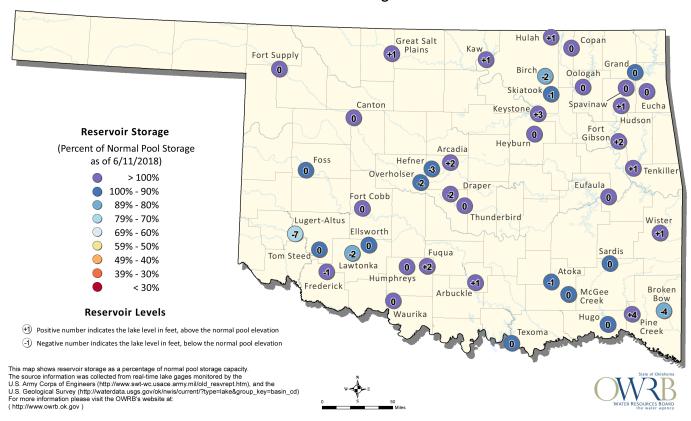
Derived from the Palmer Drought Severity Index (PDSI), the Crop Moisture Index reflects moisture supply in the short-term across major crop-producing regions. It identifies potential agricultural droughts. It is not intended to assess long-term droughts.



RESERVOIR STORAGE

Oklahoma Surface Water Resources

Reservoir Levels and Storage as of 6/11/2018



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.