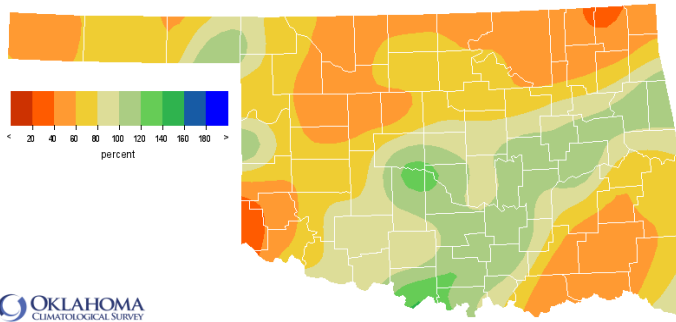


May 12, 2018

PRECIPITATION

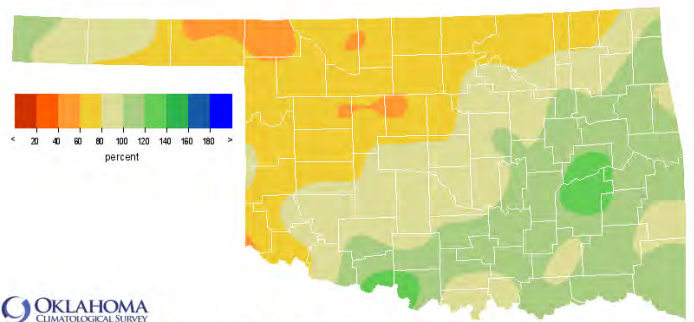
Statewide Precipitation

Climate Division	Last 30 Days April 12 – May 11, 2018				Last 365 Days May 12, 2017 – May 11, 2018			
	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	1.37"	-0.53"	72%	36th driest	15.37"	-5.21"	75%	18th driest
NORTH CENTRAL	1.94"	-1.40"	58%	18th driest	21.25"	-10.17"	68%	10th driest
NORTHEAST	2.68"	-2.02"	57%	20th driest	37.18"	-5.49"	87%	40th driest
WEST CENTRAL	1.90"	-0.93"	67%	25th driest	21.07"	-7.33"	74%	15th driest
CENTRAL	3.72"	-0.28"	93%	47th driest	32.33"	-5.30"	86%	34th driest
EAST CENTRAL	4.62"	-0.21"	96%	43rd driest	50.96"	+4.82"	110%	18th wettest
SOUTHWEST	2.35"	-0.86"	73%	31st driest	27.23"	-3.04"	90%	40th driest
SOUTH CENTRAL	4.38"	-0.06"	99%	47th wettest	42.33"	+1.62"	104%	26th wettest
SOUTHEAST	3.19"	-2.07"	61%	13th driest	54.77"	+4.18"	108%	26th wettest
STATEWIDE	2.95"	-0.89"	77%	28th driest	33.38"	-3.09"	92%	44th driest



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

Apr 12, 2018 through May 11, 2018
Created: 2018-05-12 10:00 AM CST. © Copyright 2018

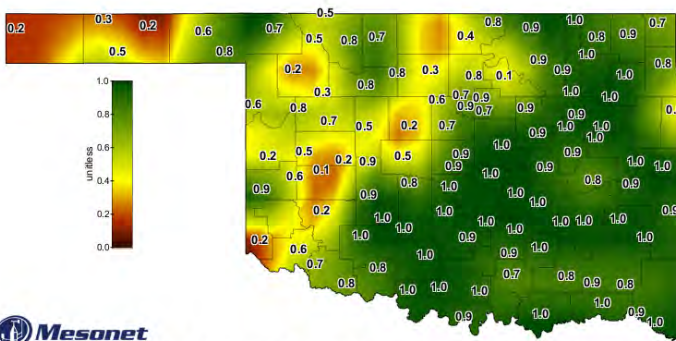


OKLAHOMA CLIMATOLOGICAL SURVEY
Percentage of 1981-2010 Normal Rainfall
Last 365 Days

May 12, 2017 through May 11, 2018
Created: 2018-05-11 10:00 AM CST. © Copyright 2018

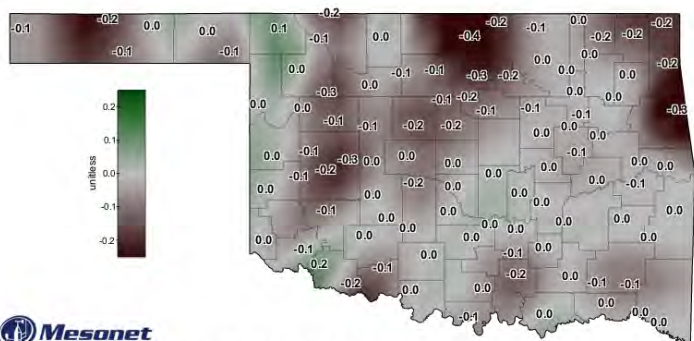
SOIL MOISTURE

Fractional Water Index May 11, 2018



Mesonet
1-day Average 10-inch Fractional Water Index

May 11, 2018
Created: 7:30:14 AM May 12, 2018. © Copyright 2018



Mesonet
7-day 10-inch Fractional Water Index Change

May 11, 2018
Created: 8:00:01 AM May 12, 2018. © Copyright 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 March 2018		
Climate Division	Status 5/5/18	Value 4/7 5/5	Change in Value		3-month	12-month	24-month
NORTHWEST	Moderate Drought	-2.45 -2.01	0.44(+)		Extremely Dry	Near Normal	Near Normal
NORTH CENTRAL	Near Normal	-1.6 -1.46	0.14(+)		Moderately Dry	Near Normal	Near Normal
NORTHEAST	Near Normal	0.68 0.17	0.51(-)		Near Normal	Moderately Moist	Abnormally Moist
WEST CENTRAL	Near Normal	-1.92 -1.74	0.18(+)		Moderately Dry	Near Normal	Abnormally Moist
CENTRAL	Near Normal	0.3 1.27	0.97(+)		Near Normal	Abnormally Moist	Near Normal
EAST CENTRAL	Very Moist Spell	3.4 3.44	0.04(+)		Very Moist	Very Moist	Near Normal
SOUTHWEST	Near Normal	-1.03 -0.61	0.42(+)		Abnormally Dry	Near Normal	Moderately Moist
SOUTH CENTRAL	Near Normal	1.89 2.24	0.35(+)		Moderately Moist	Abnormally Moist	Near Normal
SOUTHEAST	Unusual Moist Spell	2.8 2.03	0.77(-)		Extremely Moist	Moderately Moist	Near Normal

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
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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
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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 or wetter except the Northwest, which is in 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, the Northwest region is shown as Extremely Dry, the North Central and West Central are Moderately Dry, and the Southwest is Abnormally Dry, but all regions are shown as Near Normal or wetter for the 12- and 24-month periods.

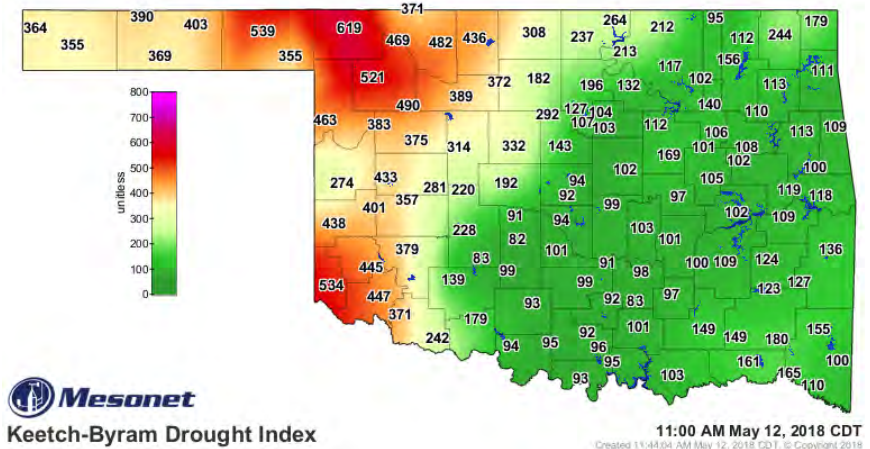
Keetch-Byram Drought Fire Index

May 12, 11:00 a.m.--1 station is above 600.

STATION	REGION	KBDI
Buffalo	Northwest	619

One station was above 600 on April 16, 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.



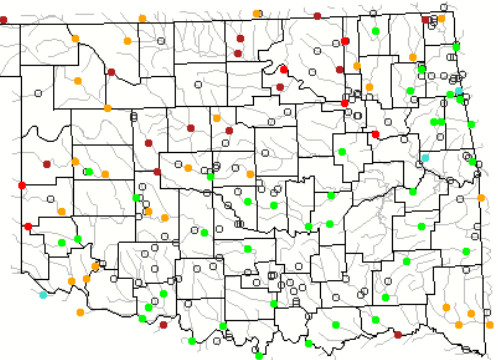
STREAMFLOW CONDITIONS

May 12, 2018

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

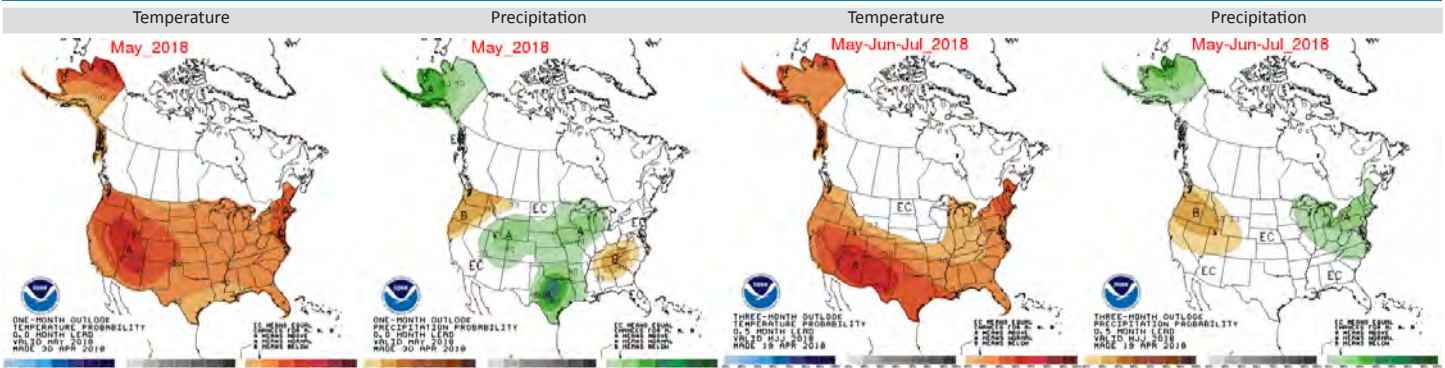
Visit waterwatch.usgs.gov for real-time streamflow information.

Real-time streamflow on May 12, 2018, at 7:30 p.m. compared to historical streamflow for day of year.



WEATHER/DROUGHT FORECAST

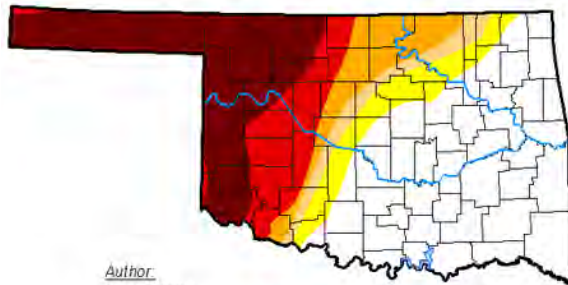
Seasonal Outlook



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:
David Simeral
Western Regional Climate Center



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

May 8, 2018

(Released Thursday, May 10, 2018)

Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	46.23	53.77	46.37	42.33	34.40	23.41
Last Week 05-01-2018	42.23	57.77	47.44	42.07	34.84	23.93
3 Months Ago 02-08-2018	0.00	100.00	99.93	88.40	37.76	0.00
Start of Calendar Year 01-02-2018	0.00	100.00	77.15	38.76	0.00	0.00
Start of Water Year 09-24-2017	64.46	35.54	0.77	0.00	0.00	0.00
One Year Ago 05-09-2017	82.75	17.25	4.26	0.00	0.00	0.00

Intensity

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

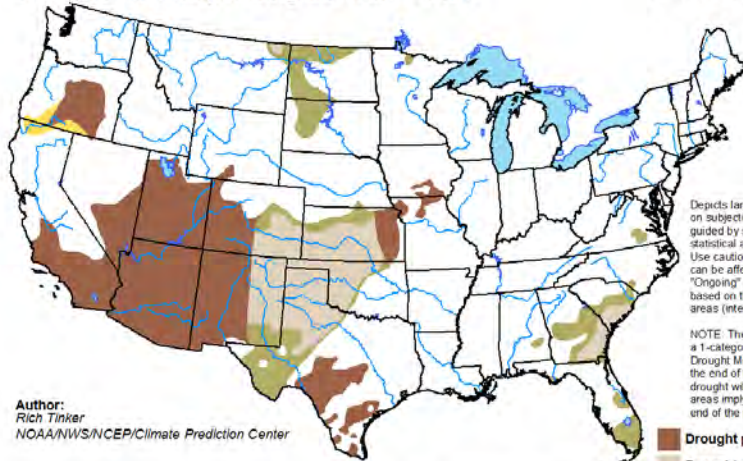
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

According to the latest U.S. Drought Monitor, as of May 8, the estimated Oklahoma population in drought areas is 649,913, down by about 60,000 from this time last month. Almost all of the western half of the state is abnormally dry or worse. More than 23% of the state in area is in exceptional drought (D4), the driest category. More than 34% of the state is in extreme drought (D3) or worse, while 42.3% is in severe drought (D2) or worse and 46.4% is in moderate drought or worse.

According to the latest seasonal drought outlook for the period of April 19 through July 31, 2018, the western half of Oklahoma will have improved conditions. The western halves of Colorado and New Mexico, most of Arizona and Utah, and southern Nevada and California will remain in persistent drought.

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

Valid for April 19 - July 31, 2018
Released April 19, 2018



Author:
Rich Tinker
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

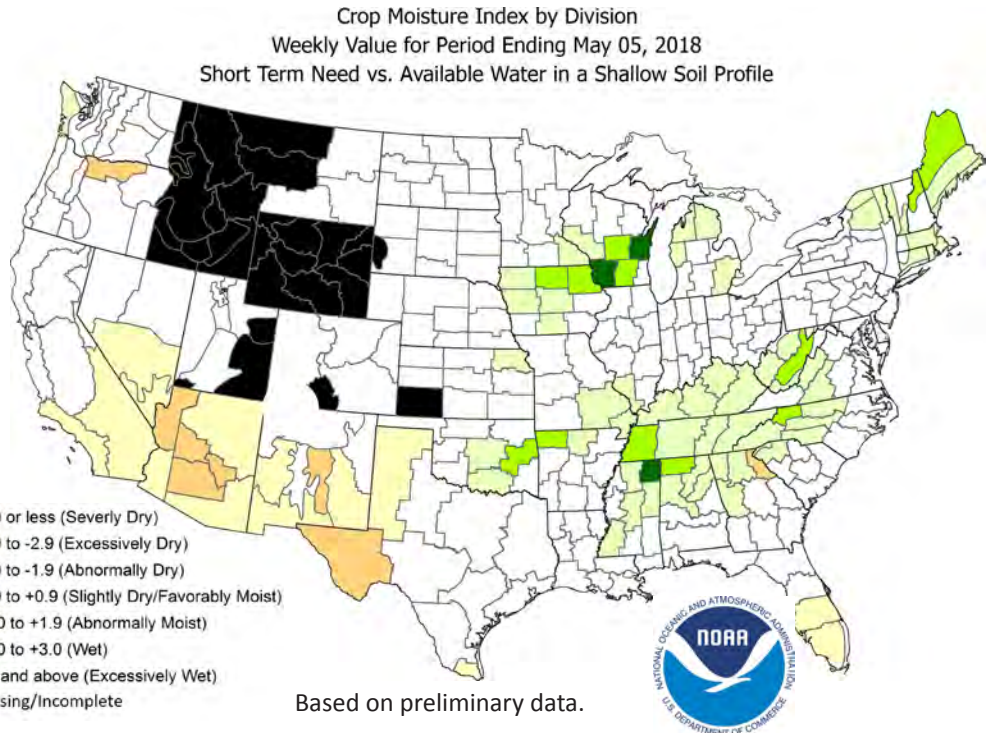


<http://go.usa.gov/3eZ73>

CROP MOISTURE INDEX

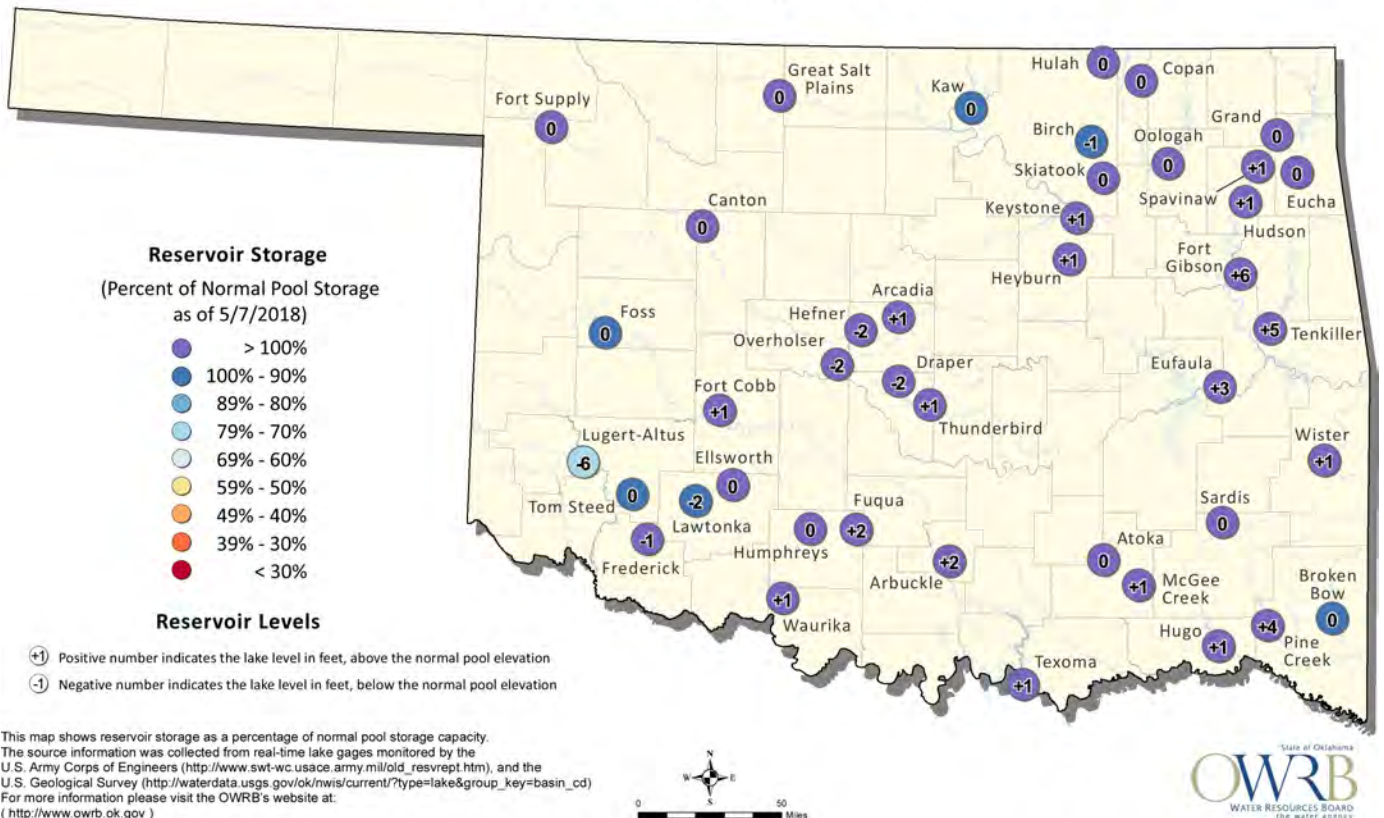
According to the NOAA Crop Moisture Index by Division, for the period ending May 5, 2018, most Oklahoma climate regions are experiencing Slightly Dry/Favorably Moist conditions (-0.9 to +0.9), but the Central and South Central regions are abnormally moist (+1.0 to +1.9) and the East Central region is wet (+2.0 to +3.0).

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 5/7/2018



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.