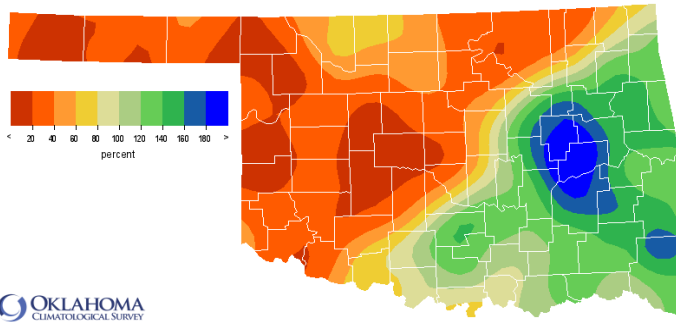


April 16, 2018

PRECIPITATION

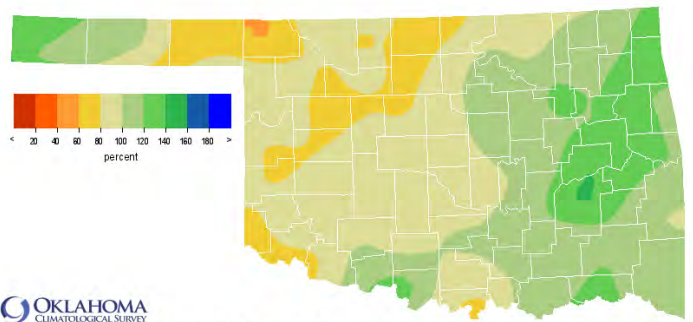
Statewide Precipitation

Climate Division	Last 30 Days March 17 – April 15, 2018				Last 365 Days April 16, 2017 – April 15, 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	0.37"	-1.20"	23%	13th driest	18.97"	-1.61"	92%	42nd driest
NORTH CENTRAL	1.12"	-1.53"	42%	27th driest	26.22"	-5.20"	83%	33rd driest
NORTHEAST	2.69"	-0.89"	75%	37th driest	47.61"	+4.94"	112%	19th wettest
WEST CENTRAL	0.46"	-1.78"	20%	12th driest	23.99"	-4.41"	84%	32nd driest
CENTRAL	1.58"	-1.52"	51%	25th driest	35.51"	-2.12"	94%	40th wettest
EAST CENTRAL	5.87"	+2.10"	156%	13th wettest	57.32"	+11.18"	124%	6th wettest
SOUTHWEST	0.73"	-1.53"	32%	15th driest	27.83"	-2.44"	92%	48th wettest
SOUTH CENTRAL	3.68"	+0.41"	113%	35th wettest	41.14"	+0.43"	101%	34th wettest
SOUTHEAST	5.76"	+1.56"	137%	15th wettest	58.41"	+7.82"	115%	18th wettest
STATEWIDE	2.42"	-0.54"	82%	41st driest	37.26"	+0.79"	102%	26th wettest



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

Mar 17, 2018 through Apr 15, 2018
Created 7/30/14 AM April 16, 2018; CD T. © Copyright 2018



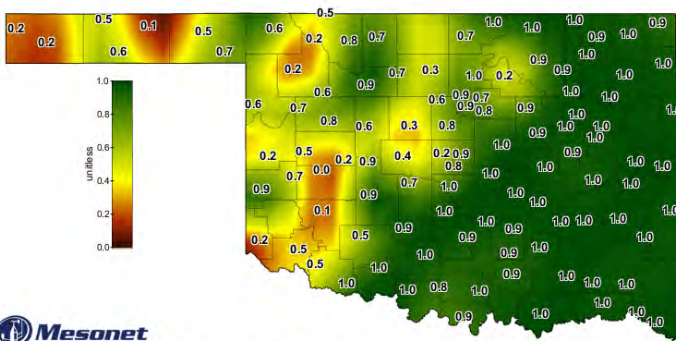
OKLAHOMA CLIMATOLOGICAL SURVEY
Percentage of 1981-2010 Normal Rainfall
Last 365 Days

Apr 16, 2017 through Apr 15, 2018
Created 8/16/17 AM April 16, 2018; CD T. © Copyright 2018

SOIL MOISTURE

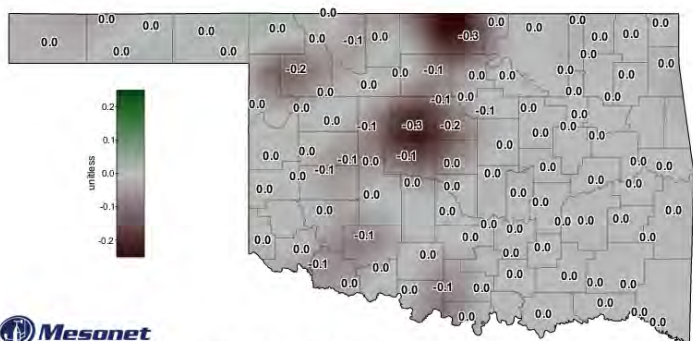
Fractional Water Index

April 15, 2018



Mesonet
1-day Average 10-inch Fractional Water Index

April 15, 2018
Created 7/30/14 AM April 16, 2018; CD T. © Copyright 2018



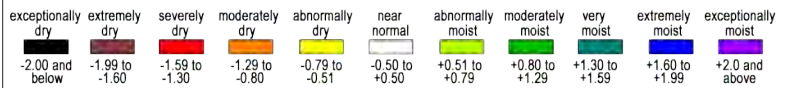
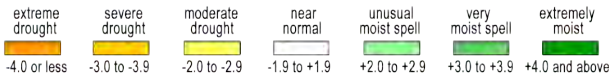
Mesonet
7-day 10-inch Fractional Water Index Change

April 15, 2018
Created 8/16/17 AM April 16, 2018; CD T. © 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 4/7/18	Value		Change in Value	3-month	12-month	24-month
		3/24	4/7				
NORTHWEST	Moderate Drought	-2.22	-2.45	0.23(-)	Extremely Dry	Near Normal	Near Normal
NORTH CENTRAL	Near Normal	-1.54	-1.6	0.06(-)	Moderately Dry	Near Normal	Near Normal
NORTHEAST	Near Normal	-0.23	0.68	0.91(+)	Near Normal	Moderately Moist	Abnormally Moist
WEST CENTRAL	Moderate Drought	-1.74	-1.92	0.18(-)	Moderately Dry	Near Normal	Abnormally Moist
CENTRAL	Near Normal	-0.39	0.3	0.69(+)	Near Normal	Abnormally Moist	Near Normal
EAST CENTRAL	Very Moist Spell	1.66	3.4	1.74(+)	Very Moist	Very Moist	Near Normal
SOUTHWEST	Near Normal	-0.87	-1.03	0.16(-)	Abnormally Dry	Near Normal	Moderately Moist
SOUTH CENTRAL	Near Normal	0.63	1.89	1.26(+)	Moderately Moist	Abnormally Moist	Near Normal
SOUTHEAST	Unusual Moist Spell	1.22	2.8	1.58(+)	Extremely Moist	Moderately Moist	Near Normal



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 and West Central regions, which are 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.

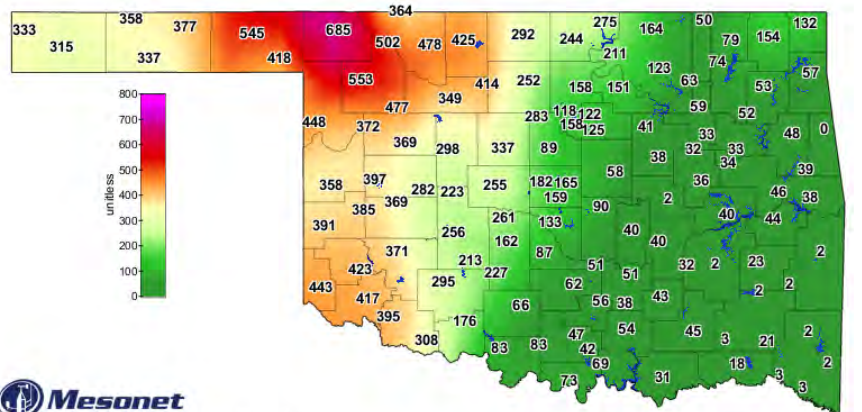
Keetch-Byram Drought Fire Index

April 16, 8:00 a.m.--1 station is above 600.

STATION	REGION	KBDI
Buffalo	Northwest	685

One station was above 600 on March 29, 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.



Keetch-Byram Drought Index

8:00 AM April 16, 2018 CDT
Created 9:14:04 AM April 16, 2018 CDT. © Copyright 2018

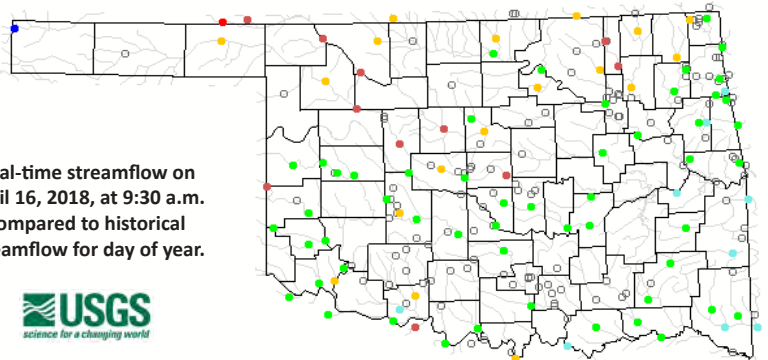
STREAMFLOW CONDITIONS

April 16, 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

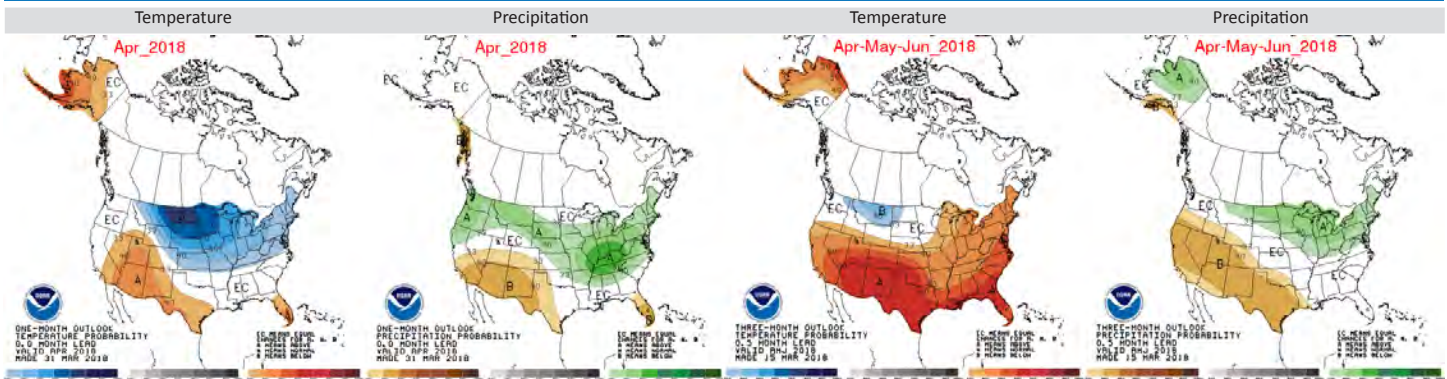
Visit waterwatch.usgs.gov for real-time streamflow information.

Real-time streamflow on April 16, 2018, at 9:30 a.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.

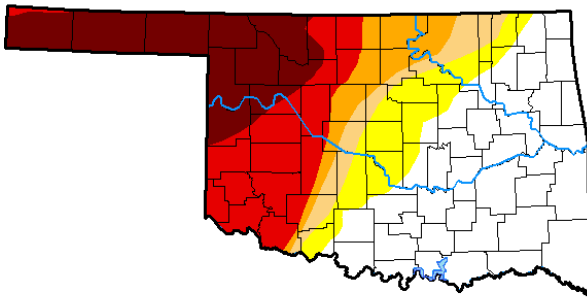
Drought Summary & Outlook

U.S. Drought Monitor Oklahoma

April 10, 2018

(Released Thursday, Apr. 12, 2018)

Valid 8 a.m. EDT



Author:
David Miskus
NOAA/NWS/NCEP/CPC



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

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	41.72	58.28	47.44	42.07	34.85	18.35
Last Week 04-03-2018	41.72	58.28	47.44	42.07	34.85	15.11
3 Months Ago 01-09-2018	0.00	100.00	82.65	42.11	7.03	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 09-26-2017	64.46	35.54	0.77	0.00	0.00	0.00
One Year Ago 04-11-2017	23.65	76.35	50.92	13.65	0.00	0.00

Intensity

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

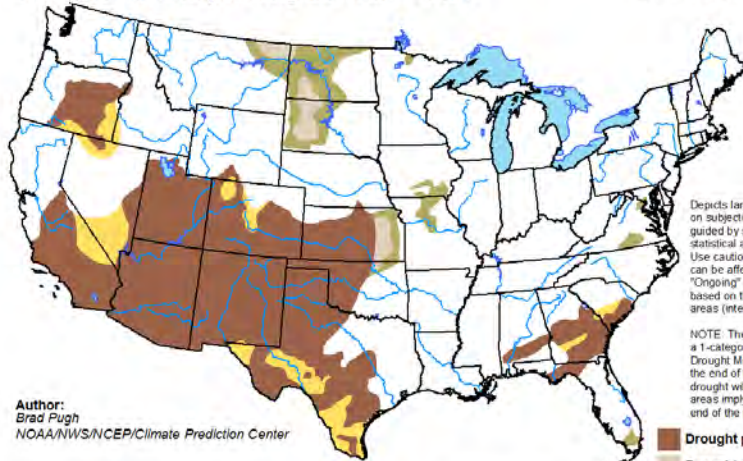
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

According to the latest *U.S. Drought Monitor*, as of April 10, the estimated Oklahoma population in drought areas is 712,357. Almost all of the western half of the state is now abnormally dry or worse. More than 18% of the state in area is in exceptional drought (D4), the driest category, including most of the Northwest region. Almost 35% of the state is in extreme drought (D3) or worse, while 42% is in severe drought (D2) or worse and 47.4% is in moderate drought or worse.

According to the latest seasonal drought outlook for the period of March 15 through June 30, 2018, the western half of Oklahoma will remain in persistent drought. This area spreads west all the way through California—nearly the entire southwestern quadrant of the contiguous US is predicted to have persistent drought for the next few months.

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

Valid for March 15 - June 30, 2018
Released March 15, 2018



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

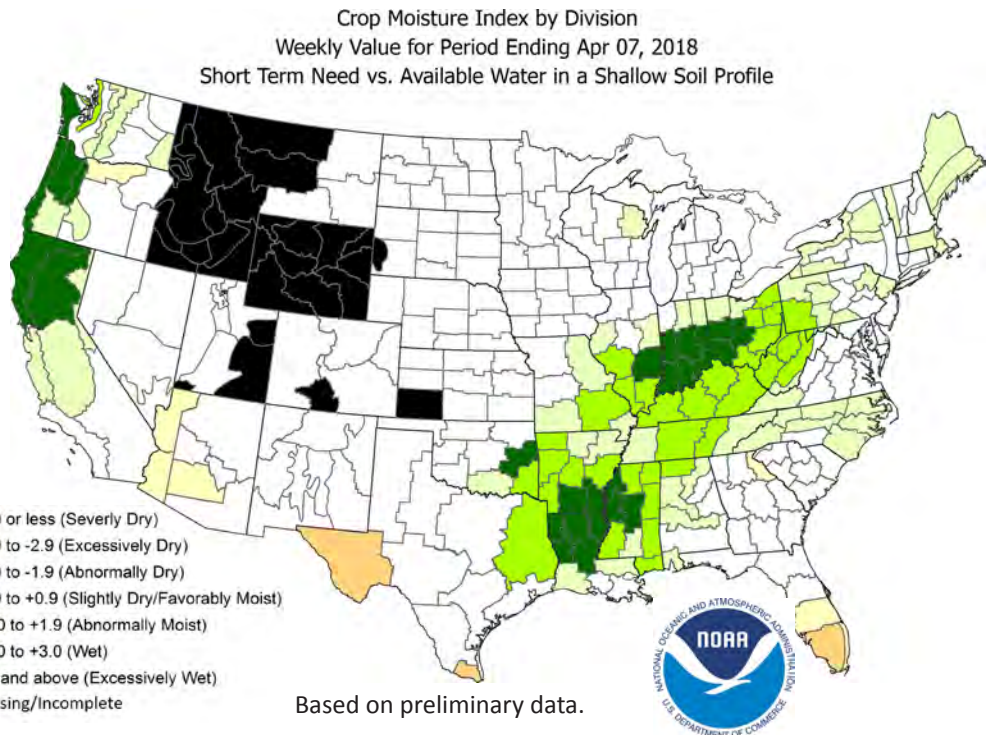


<http://go.usa.gov/3eZ73>

CROP MOISTURE INDEX

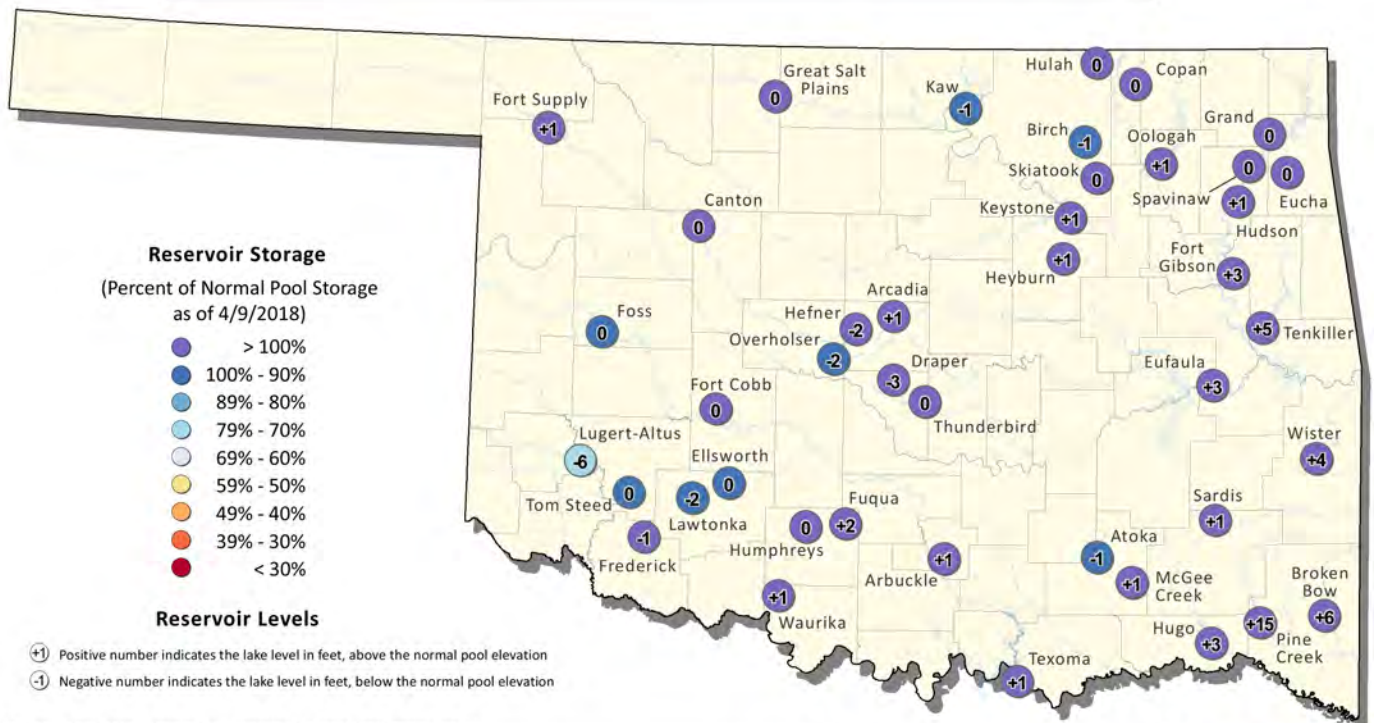
According to the NOAA Crop Moisture Index by Division, for the period ending April 7, 2018, all Oklahoma climate regions are experiencing Slightly Dry/Favorably Moist conditions (-0.9 to +0.9) except the East Central, which is excessively wet, South Central, which is abnormally moist, and Southeast, which is wet.

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 4/9/2018



This map shows reservoir storage as a percentage of normal pool storage capacity. The source information was collected from real-time lake gages monitored by the U.S. Army Corps of Engineers (http://www.swt-wc.usace.army.mil/old_resv rept.htm), and the U.S. Geological Survey (http://waterdata.usgs.gov/ok/nwis/current/?type=lake&group_key=basin_cd). For more information please visit the OWRB's website at: (<http://www.owrb.ok.gov>)



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.