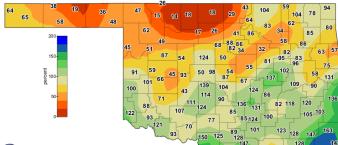
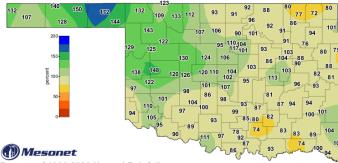
# **Oklahoma Water Resources Bulletin** Summary of Current Conditions

April 11, 2024

# Precipitation

Last 30 Days: March 12, 2024 – April 10, 2024					Last 365 Days: April 12, 2023 – April 10, 2024						
Climate Division	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Rank Since Normal 1921		Climate Total Division (inches)		Departure From Normal (inches)	Percent of Normal	Rank Since 1921		
PANHANDLE	0.62"	-0.95"	40%	32nd driest	PANHANDLE	26.88"	+6.35"	131%	8th wettest		
N. CENTRAL	0.79"	-1.85"	30%	21st driest	N. CENTRAL	33.86"	+2.52"	108%	26th wettest		
NORTHEAST	2.74"	-0.78"	78%	45th driest	NORTHEAST	37.18"	-5.37"	87%	38th driest		
W. CENTRAL	1.54"	-0.70"	69%	49th driest	W. CENTRAL	35.21"	+6.88"	124%	9th wettest		
CENTRAL	2.55"	-0.56"	82%	50th wettest	CENTRAL	37.72"	+0.19"	101%	31st wettest		
E. CENTRAL	3.54"	-0.23"	94%	48th wettest	E. CENTRAL	40.91"	-5.10"	89%	41st driest		
SOUTHWEST	2.13"	-0.13"	94%	41st wettest	SOUTHWEST	29.86"	-0.34"	99%	40th wettest		
S. CENTRAL	3.68"	+0.42"	113%	32nd wettest	S. CENTRAL	35.36"	-5.24"	87%	41st driest		
SOUTHEAST	6.50"	+2.26"	153%	14th wettest	SOUTHEAST	47.63"	-2.82"	94%	46th driest		
STATEWIDE	2.62"	-0.34"	89%	52nd driest	STATEWIDE	35.92"	-0.45"	99%	40th wettest		

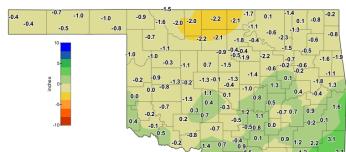




#### Mesonet

Percent of 1991-2020 Normal Rainfall Last 30 Days

Mar 12, 2024 through Apr 10, 2024



#### Mesonet

Departure from 1991-2020 Normal Rainfall Last 30 Days

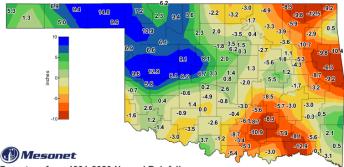


-1.3



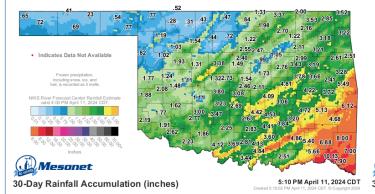
Percent of 1991-2020 Normal Rainfall Last 365 Days

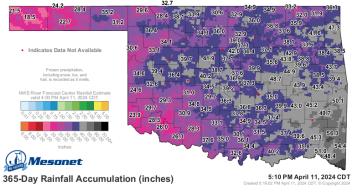
Apr 12, 2023 through Apr 10, 2024



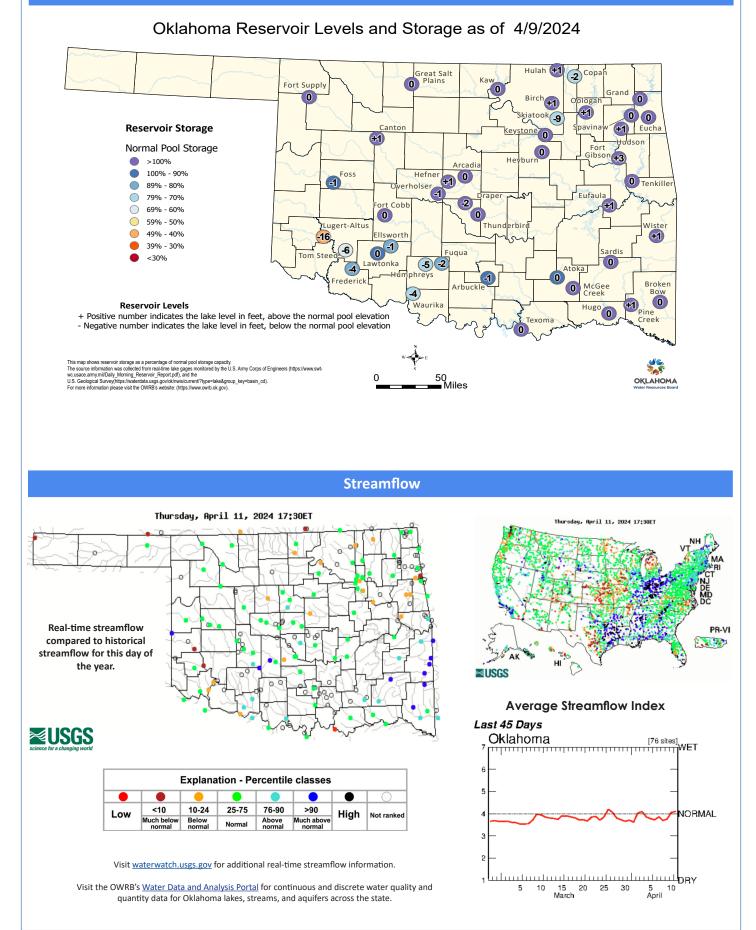
Departure from 1991-2020 Normal Rainfall Last 365 Days

Apr 12, 2023 through Apr 10, 2024





#### **Reservoir Levels**



# **Drought Conditions**

# Palmer Drought Severity Index (PDSI)

Climate Division	Status 04/06/24	Value 03/09	e 04/6	Change in Value	
NORTHWEST	Near Normal	1.89 0	.85	-1.04	
NORTH CENTRAL	Near Normal	2.66 1	.74	-0.92	
NORTHEAST	Near Normal	0.61 -0	).41	-1.02	
WEST CENTRAL	Near Normal	2.72 1	.87	-0.85	
CENTRAL	Near Normal	1.53 1	.51	-0.02	
EAST CENTRAL	Near Normal	-0.02 -0.18		-0.16	
SOUTHWEST	Near Normal	1.37 0.92		-0.45	
SOUTH CENTRAL	Near Normal	0.87 0	.74	-0.13	
SOUTHEAST	Near Normal	0.56 0.76		+0.2	
extreme severe moderate near unusual very extremely drought drought drought normal moist spell moist spell moist 4.0 or less - 3.0 to -3.92.0 to -2.9 - 1.9 to +1.9 +2.0 to +2.9 + 3.0 to +3.9 +4.0 and above					

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 April 6, all climate regions are Near Normal.

Soil Moisture (A) Mesonet

April 10, 2024 1-day Average 4-inch Bare Soil Fractional Water Index The 1-day Average 4-inch Bare Soil Fractional Water Index map displays the 24-hour-averaged soil moisture at 4 inches under bare soil for the previous day. Fractional water index ranges from 0 (as dry as the sensor can read) to 1.0 (as wet as the sensor can read).



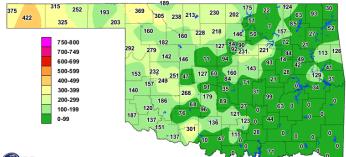
# State & County Burn Ban Status

#### Standardized Precipitation Index (SPI) Through March 2024

3-month				12-month				24-month				
Near Normal				Extremely Moist Ne					Nea	ear Normal		
Near Normal				Abnormally Moist				Near Normal				
Near Normal				Near Normal				Abnormally Dry				
Near Normal				Very Moist				Near Normal				
Near Normal				Abnormally Moist				Near Normal				
Near Normal				Near Normal				Near Normal				
Near Normal				Near Normal				Near Normal				
Near Normal				Near Normal				Near Normal				
Near Normal				Near Normal				Near Normal				
exceptionally extreme dry dry -2.00 and -1.99 to below -1.60	dry	moder dry -1.2	9 to	abnormally dry -0.79 to -0.51	near normal -0.50 to +0.50	abnormally moist +0.51 to +0.79	mode mc +0.8 +1.	oist O to	very moist +1.30 to +1.59	extremely moist +1.60 to +1.99	exceptionally moist +2.0 and above	

The SPI provides a comparison of precipitation over several specified time periods with totals from the periods for all years in the historical record. Through March 2024, all regions were near normal or wetter for all three time periods shown except the Northeast, which was abnormally dry for the 24-month period.

# **Keetch-Byram Drought Index**

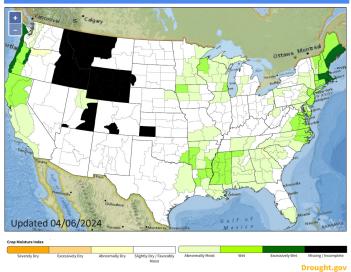


### 🕐 Mesonet

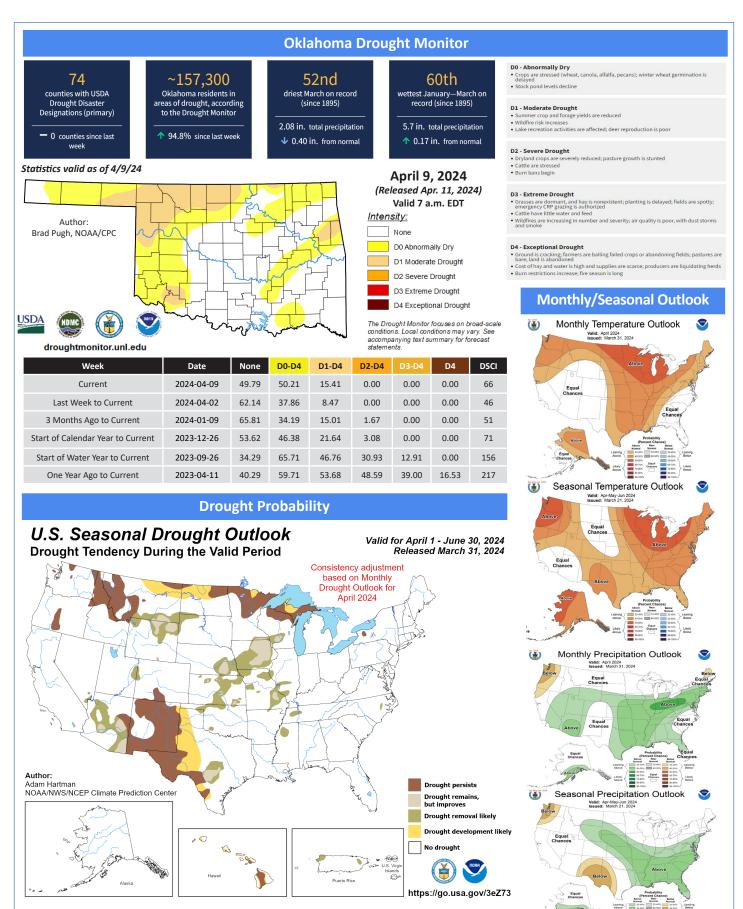
Keetch-Byram Drought Index

6:30 PM April 11, 2024 CDT

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 > 600 are often associated with severe drought and increased wildfire occurrence.



**Crop Moisture Index** 



The map depicts large-scale trends based on subjectively derived probabilities guided by short- and longrange statistical and dynamical forecasts. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4). 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. Green areas imply drought removal by the end of the period.

NOAA/ National Weather Service National Centers for Environmental Prediction Climate Prediction Center

Likely

Belos

Equal