

# Oklahoma Water Resources Bulletin

## Summary of Current Conditions

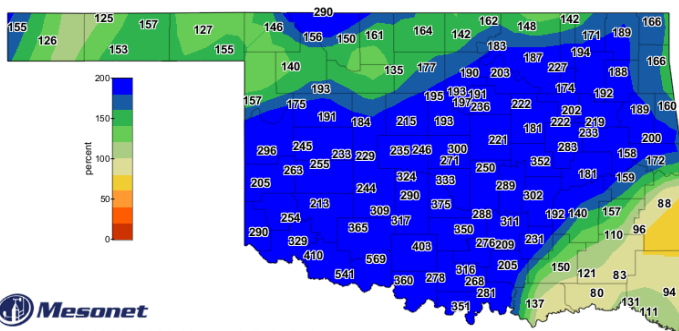
May 9, 2025

### Precipitation

Last 30 Days: April 9, 2025, through May 8, 2025

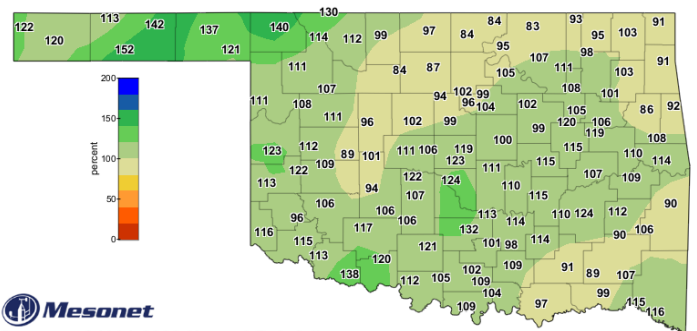
Last 365 Days: May 9, 2024, through May 8, 2025

Climate Division	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	Rank Since 1921	Climate Division	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	RANK SINCE 1921
PANHANDLE	2.60"	+0.78"	143%	32nd wettest	PANHANDLE	25.17"	+4.59"	122%	15th wettest
N. CENTRAL	5.84"	+2.64"	182%	12th wettest	N. CENTRAL	30.42"	-1.00"	97%	47th wettest
NORTHEAST	8.89"	+4.36"	196%	5th wettest	NORTHEAST	42.20"	-0.47"	99%	41st wettest
W. CENTRAL	6.83"	+4.14"	254%	6th wettest	W. CENTRAL	30.07"	+1.67"	106%	26th wettest
CENTRAL	10.40"	+6.58"	272%	1st wettest	CENTRAL	39.78"	+2.15"	106%	22nd wettest
E. CENTRAL	9.96"	+5.30"	214%	5th wettest	E. CENTRAL	50.67"	+4.53"	110%	18th wettest
SOUTHWEST	11.08"	+8.03"	363%	1st wettest	SOUTHWEST	32.96"	+2.69"	109%	19th wettest
S. CENTRAL	11.25"	+6.99"	264%	2nd wettest	S. CENTRAL	43.40"	+2.69"	107%	26th wettest
SOUTHEAST	5.59"	+0.55"	111%	51st wettest	SOUTHEAST	52.66"	+2.07"	104%	37th wettest
STATEWIDE	8.16"	+4.48"	222%	2nd wettest	STATEWIDE	38.53"	+2.06"	106%	23rd wettest



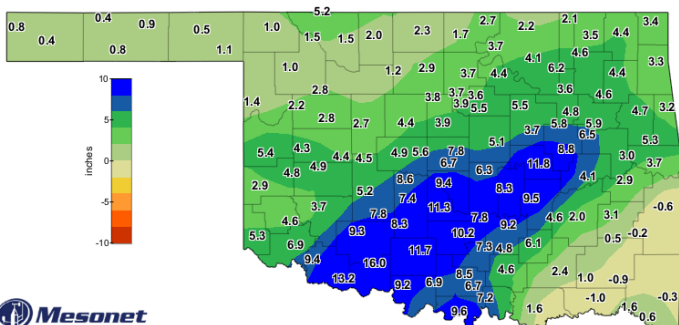
Mesonet  
Percent of 1991-2020 Normal Rainfall  
Last 30 Days

Apr 9, 2025 through May 8, 2025  
Created 3:42:53 AM May 9, 2025 CDT. Copyright 2025



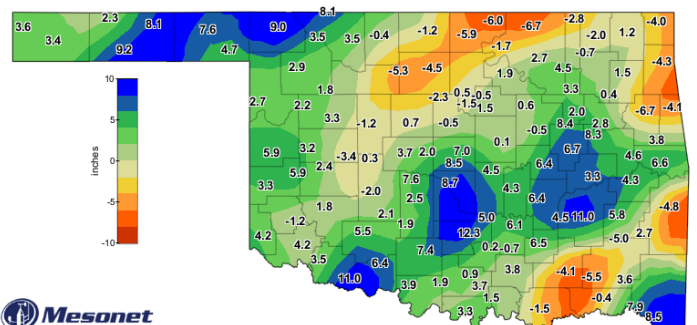
Mesonet  
Percent of 1991-2020 Normal Rainfall  
Last 365 Days

May 9, 2024 through May 8, 2025  
Created 3:42:19 AM May 9, 2025 CDT. Copyright 2025



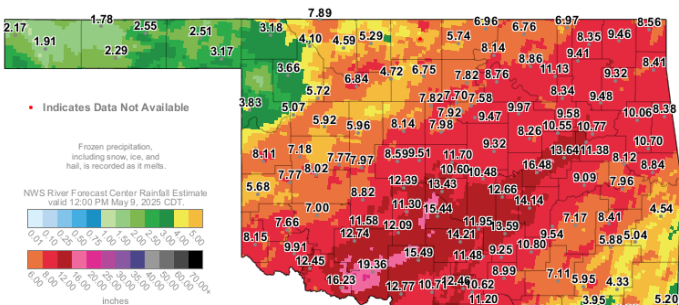
Mesonet  
Departure from 1991-2020 Normal Rainfall  
Last 30 Days

Apr 9, 2025 through May 8, 2025  
Created 3:42:52 AM May 9, 2025 CDT. Copyright 2025



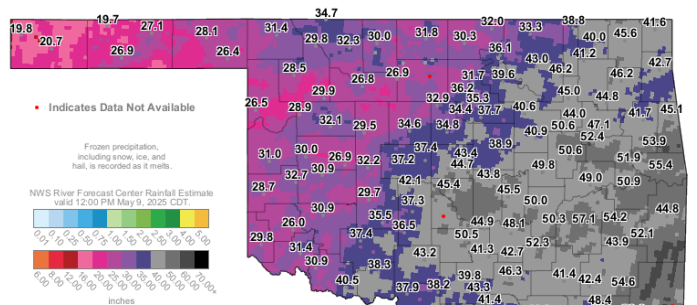
Mesonet  
Departure from 1991-2020 Normal Rainfall  
Last 365 Days

May 9, 2024 through May 8, 2025  
Created 3:42:19 AM May 9, 2025 CDT. Copyright 2025



Mesonet  
30-Day Rainfall Accumulation (inches)

1:25 PM May 9, 2025 CDT  
Created 1:32:37 PM May 9, 2025 CDT. Copyright 2025

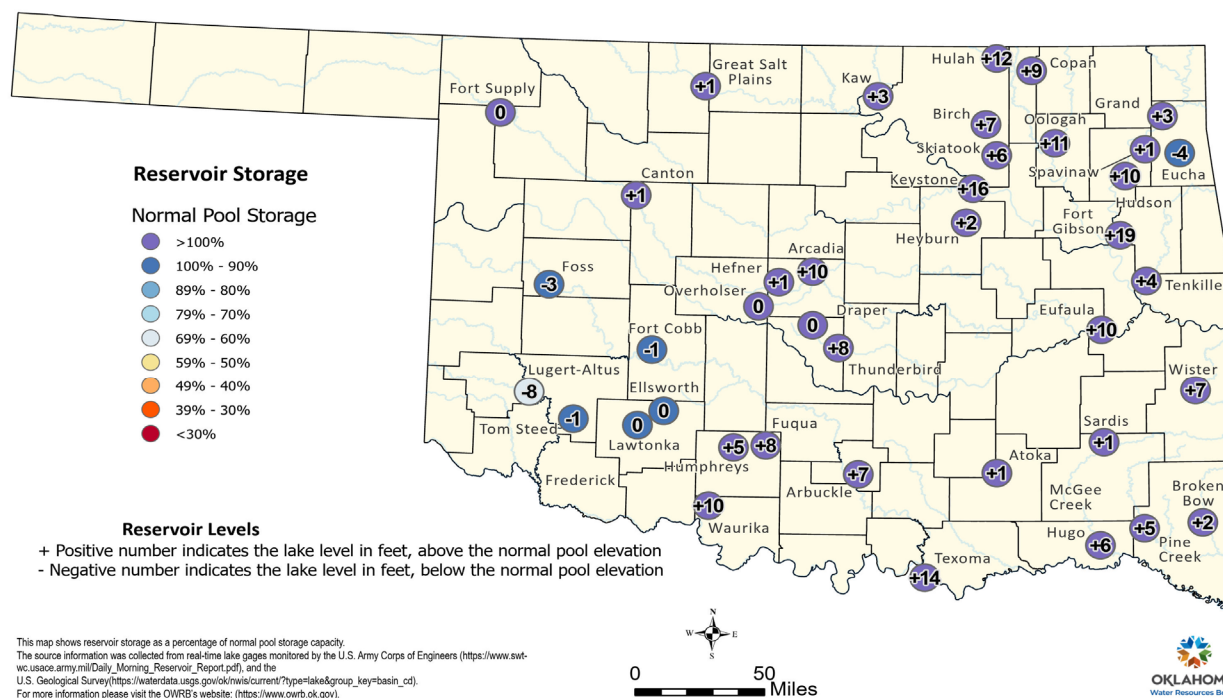


Mesonet  
365-Day Rainfall Accumulation (inches)

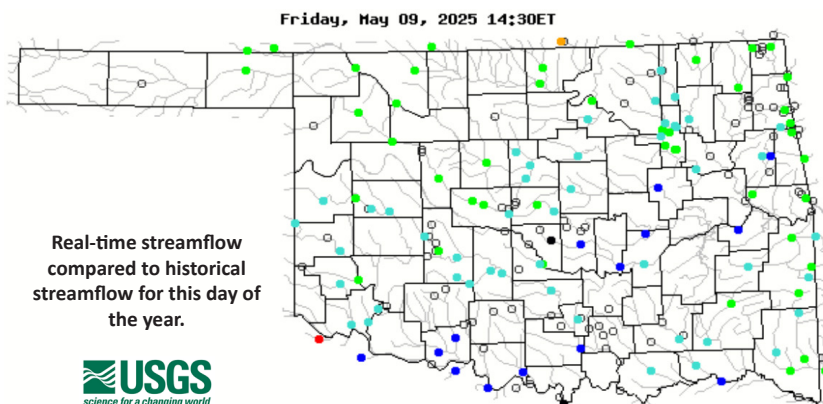
1:30 PM May 9, 2025 CDT  
Created 1:37:39 PM May 9, 2025 CDT. Copyright 2025

## Reservoir Levels

### Oklahoma Reservoir Levels and Storage as of 5/5/2025



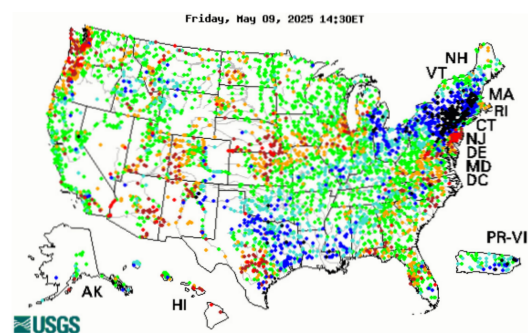
## Streamflow



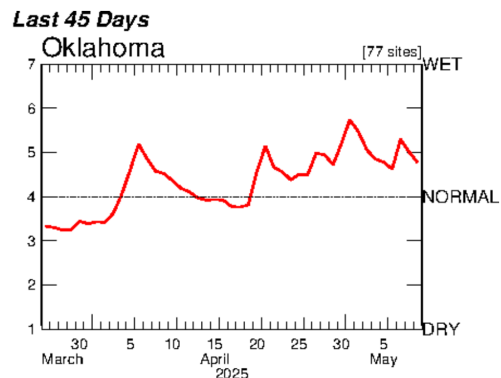
Explanation - Percentile classes							
Low	<10	10-24	25-75	76-90	>90	High	Not ranked
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Visit [waterwatch.usgs.gov](https://waterwatch.usgs.gov) for additional real-time streamflow information.

Visit the OWRB's [Water Data and Analysis Portal](#) for continuous and discrete water quality and quantity data for Oklahoma lakes, streams, and aquifers across the state.

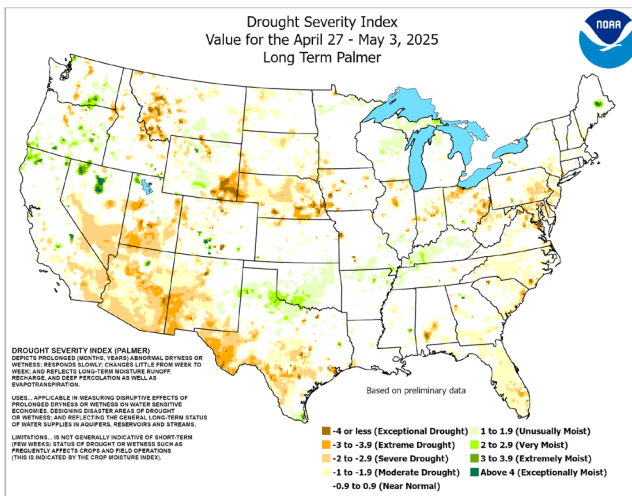


### Average Streamflow Index



# Drought Conditions

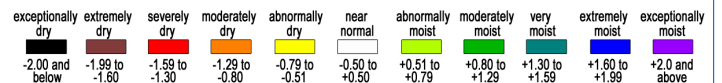
## Palmer Drought Severity Index (PDSI)



The PDSI is a standardized index based on a simplified soil water balance and estimates relative soil moisture conditions.

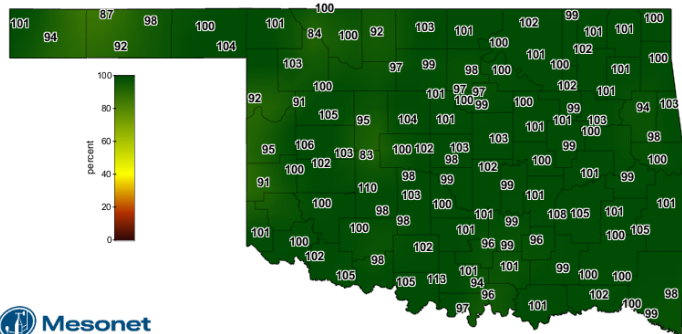
## Standardized Precipitation Index (SPI) Through March 2025

Climate Division	3-month	12-month	24-month
PANHANDLE	Moderately Dry	Near Normal	Very Moist
NORTH CENTRAL	Moderately Dry	Near Normal	Near Normal
NORTHEAST	Abnormally Dry	Near Normal	Near Normal
WEST CENTRAL	Abnormally Dry	Near Normal	Abnormally Moist
CENTRAL	Moderately Dry	Near Normal	Abnormally Moist
EAST CENTRAL	Abnormally Dry	Near Normal	Near Normal
SOUTHWEST	Abnormally Dry	Near Normal	Near Normal
SOUTH CENTRAL	Abnormally Dry	Near Normal	Near Normal
SOUTHEAST	Near Normal	Near Normal	Near Normal



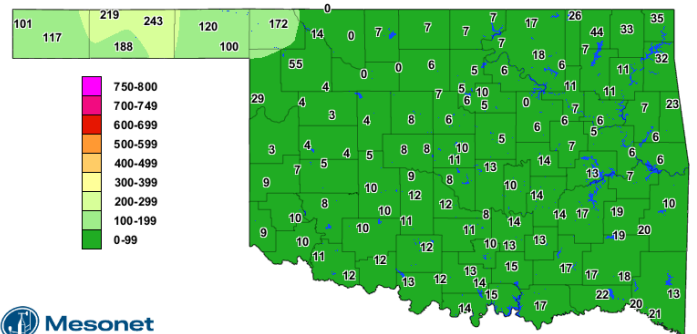
The SPI provides a comparison of precipitation over several specified time periods with totals for all years in the historical record. Through March 2025, all regions were Near Normal or wetter for the 12- and 24-month periods, but most regions were dry for the 3-month period.

## Soil Moisture



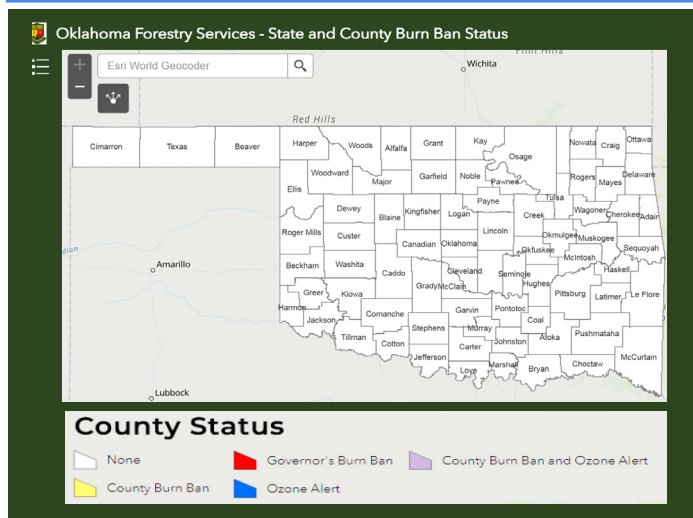
The 1-day Average 4-inch Bare Soil Fractional Water Index map displays the 24-hour-averaged soil moisture at 4 inches under bare soil for the previous day. Fractional water index ranges from 0 (as dry as the sensor can read) to 1.0 (as wet as the sensor can read). Soil moisture cannot be measured if the soils are frozen, which may cause maps to have large areas of missing data during the winter months.

## Keetch-Byram Drought Index



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.

## State & County Burn Ban Status



## Crop Moisture Index

Data unavailable.



# Oklahoma Drought Monitor

~57,900

Oklahoma residents in areas of drought, according to the Drought Monitor

↓ 0.8% since last week

41st

driest March on record (since 1895)

1.84 in. total precipitation

↓ 0.64 in. from normal

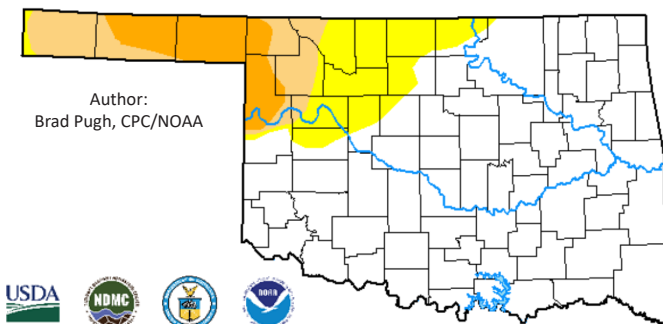
29th

driest January–March on record (since 1895)

3.78 in. total precipitation

↓ 1.75 in. from normal

Statistics valid as of 5/6/25



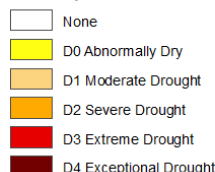
Author:  
Brad Pugh, CPC/NOAA



droughtmonitor.unl.edu

May 6, 2025  
(Released May 8, 2025)  
Valid 8 a.m. EDT

Intensity:



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

## D0 - Abnormally Dry

- Crops are stressed (wheat, canola, alfalfa, pecans); winter wheat germination is delayed
- Stock pond levels decline

## D1 - Moderate Drought

- Summer crop and forage yields are reduced
- Wildfire risk increases
- Lake recreation activities are affected; deer reproduction is poor

## D2 - Severe Drought

- Dryland crops are severely reduced; pasture growth is stunted
- Cattle are stressed
- Burn bans begin

## D3 - Extreme Drought

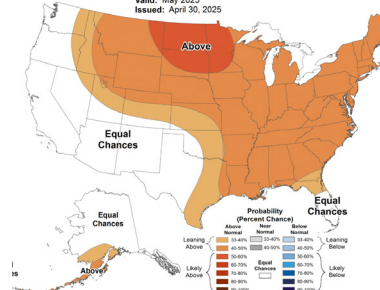
- Grasses are dormant, and hay is nonexistent; planting is delayed; fields are spotty; emergency CRP grazing is authorized
- Cattle have little water and feed
- Wildfires are increasing in number and severity; air quality is poor, with dust storms and smoke

## D4 - Exceptional Drought

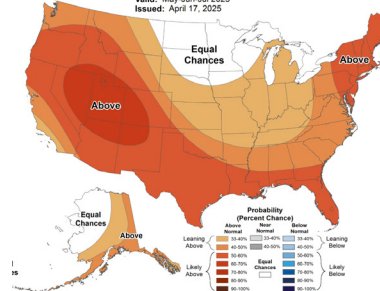
- Ground is cracking; farmers are bailing failed crops or abandoning fields; pastures are bare; land is abandoned
- Cost of hay and water is high and supplies are scarce; producers are liquidating herds
- Burn restrictions increase; fire season is long

## Monthly/Seasonal Outlook

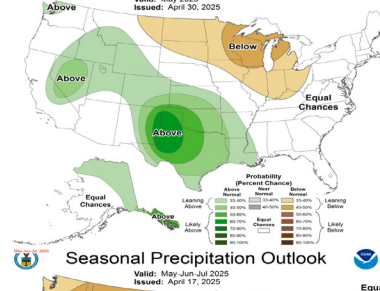
Monthly Temperature Outlook  
Valid: May 2025  
Issued: April 30, 2025



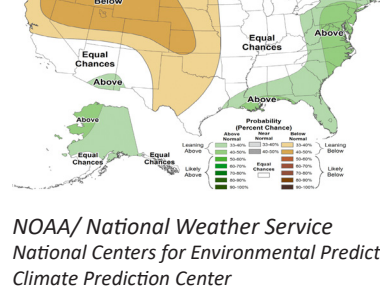
Seasonal Temperature Outlook  
Valid: May-Jun-Jul 2025  
Issued: April 17, 2025



Monthly Precipitation Outlook  
Valid: May 2025  
Issued: April 30, 2025



Seasonal Precipitation Outlook  
Valid: May-Jun-Jul 2025  
Issued: April 17, 2025

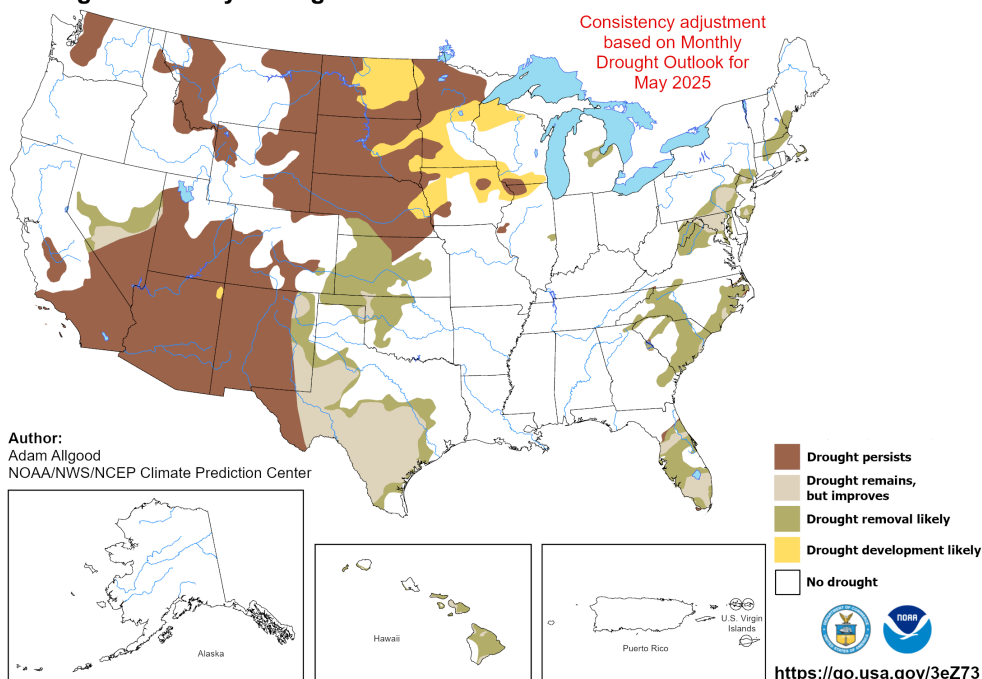


NOAA/ National Weather Service  
National Centers for Environmental Prediction  
Climate Prediction Center

## Drought Probability

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

Valid for May 1 - July 31, 2025  
Released April 30, 2025



Author:  
Adam Allgood  
NOAA/NWS/NCEP Climate Prediction Center



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

The map depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range 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.