

# Oklahoma Water Resources Bulletin

## Summary of Current Conditions

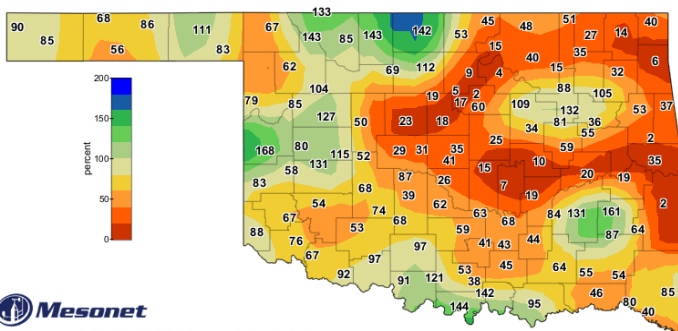
August 21, 2025

### Precipitation

Last 30 Days: July 22, 2025, through August 20, 2025

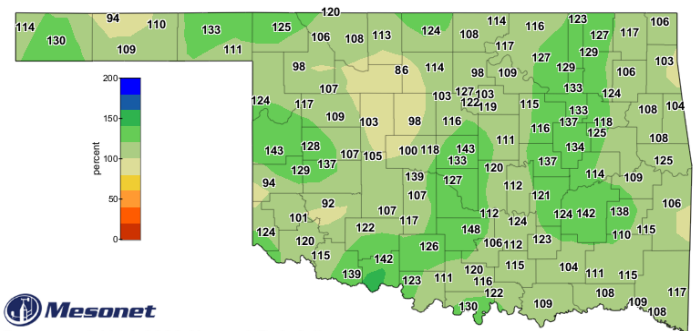
Last 365 Days: August 21, 2024, through August 20, 2025

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	2.20"	-0.49"	82%	48th driest	PANHANDLE	22.97"	+2.39"	112%	24th wettest
N. CENTRAL	2.84"	-0.08"	97%	52nd wettest	N. CENTRAL	33.56"	+2.14"	107%	29th wettest
NORTHEAST	1.52"	-1.63"	48%	19th driest	NORTHEAST	50.57"	+7.90"	119%	14th wettest
W. CENTRAL	2.84"	+0.20"	108%	38th wettest	W. CENTRAL	32.66"	+4.26"	115%	18th wettest
CENTRAL	1.11"	-1.74"	39%	17th driest	CENTRAL	43.91"	+6.28"	117%	15th wettest
E. CENTRAL	1.67"	-1.34"	56%	21st driest	E. CENTRAL	55.67"	+9.53"	121%	10th wettest
SOUTHWEST	1.90"	-0.45"	81%	51st driest	SOUTHWEST	34.13"	+3.86"	113%	21st wettest
S. CENTRAL	2.06"	-0.29"	88%	53rd wettest	S. CENTRAL	47.66"	+6.95"	117%	18th wettest
SOUTHEAST	2.38"	-0.49"	83%	40th driest	SOUTHEAST	57.21"	+6.62"	113%	23rd wettest
STATEWIDE	2.00"	-0.77"	72%	33rd driest	STATEWIDE	42.04"	+5.57"	115%	16th wettest



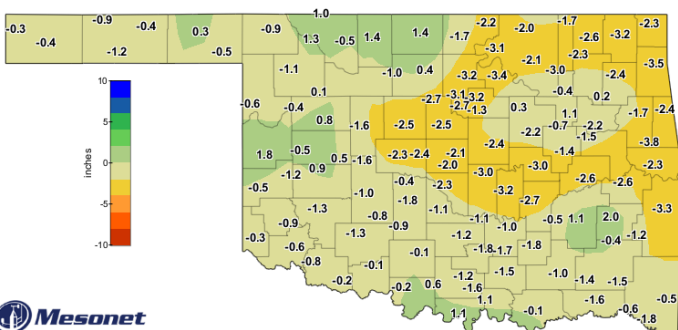
Percent of 1991-2020 Normal Rainfall  
Last 30 Days

Jul 22, 2025 through Aug 20, 2025  
Created 5:37:10 AM August 21, 2025 CDT. Copyright 2025



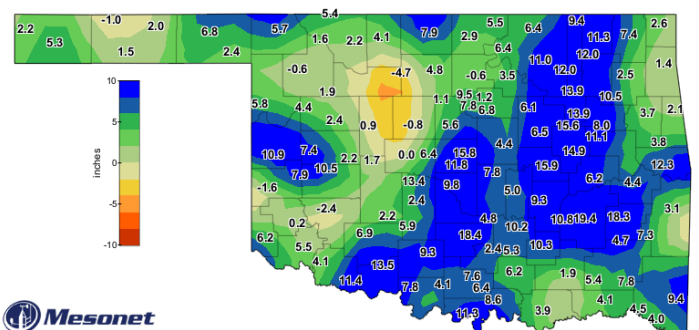
Percent of 1991-2020 Normal Rainfall  
Last 365 Days

Aug 21, 2024 through Aug 20, 2025  
Created 5:37:54 AM August 21, 2025 CDT. Copyright 2025



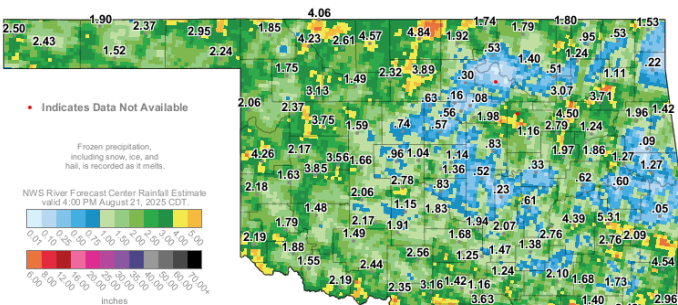
Departure from 1991-2020 Normal Rainfall  
Last 30 Days

Jul 22, 2025 through Aug 20, 2025  
Created 5:37:10 AM August 21, 2025 CDT. Copyright 2025



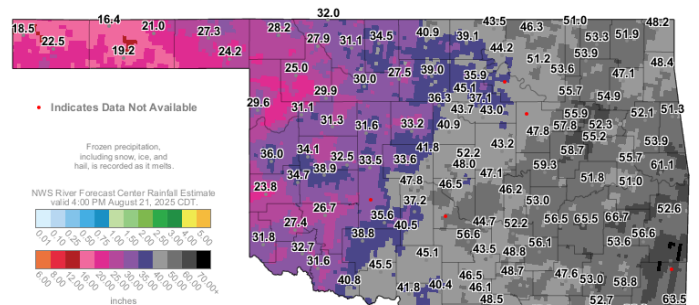
Departure from 1991-2020 Normal Rainfall  
Last 365 Days

Aug 21, 2024 through Aug 20, 2025  
Created 5:37:53 AM August 21, 2025 CDT. Copyright 2025



30-Day Rainfall Accumulation (inches)

4:55 PM August 21, 2025 CDT  
Created 5:03:06 PM August 21, 2025 CDT. Copyright 2025

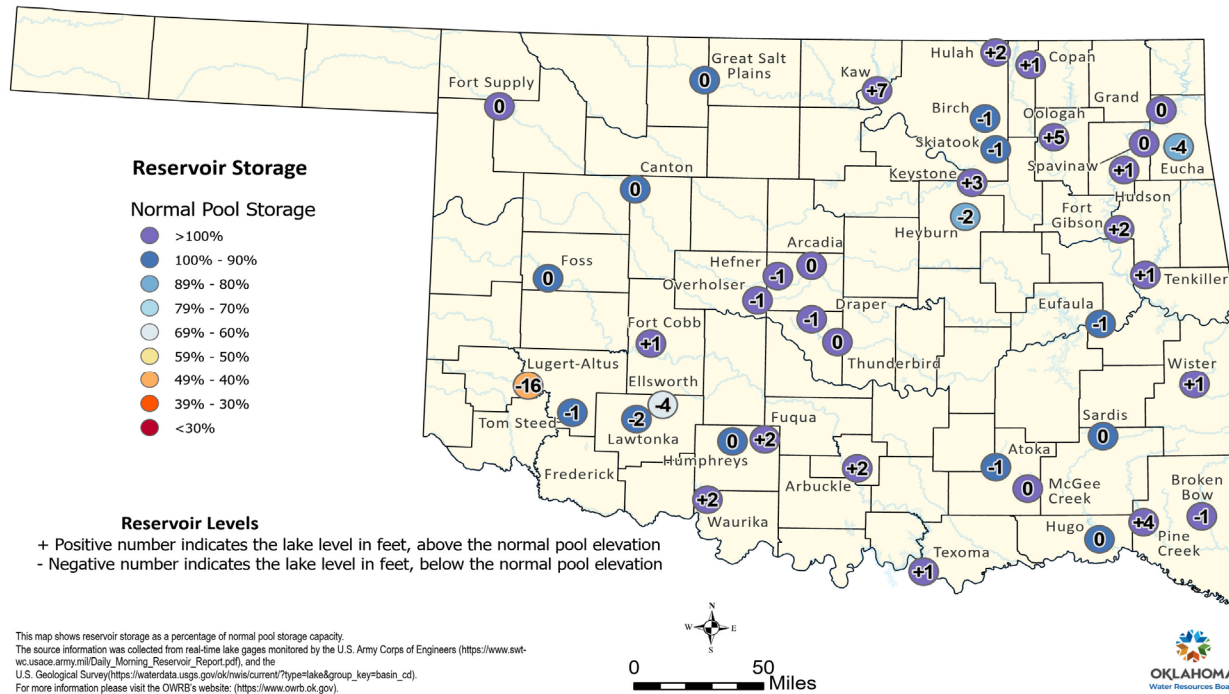


365-Day Rainfall Accumulation (inches)

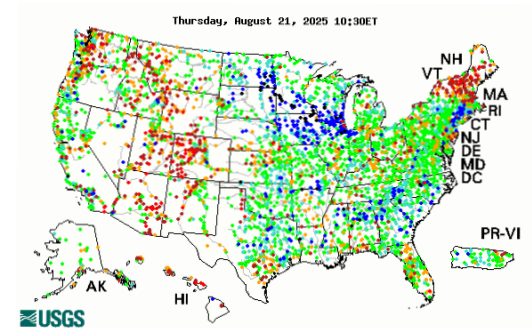
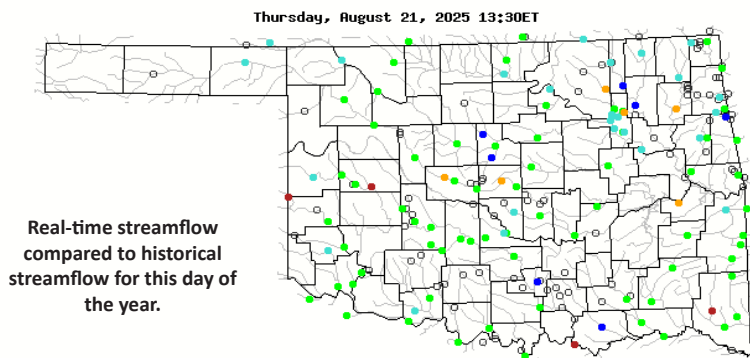
4:55 PM August 21, 2025 CDT  
Created 5:03:07 PM August 21, 2025 CDT. Copyright 2025

## Reservoir Levels

### Oklahoma Reservoir Levels and Storage as of 8/18/2025



## Streamflow

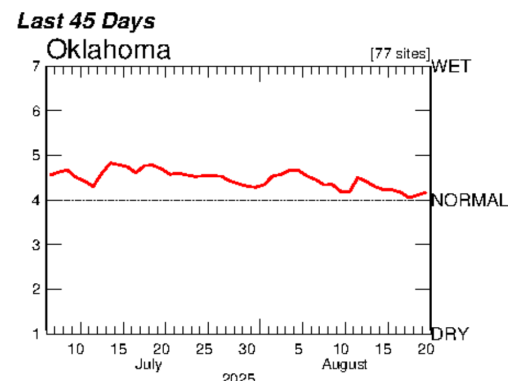


Explanation - Percentile classes							
<span style="color: red;">●</span>	<span style="color: red;">●</span>	<span style="color: orange;">●</span>	<span style="color: green;">●</span>	<span style="color: cyan;">●</span>	<span style="color: blue;">●</span>	<span style="color: black;">●</span>	<span style="color: gray;">●</span>
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](https://waterwatch.usgs.gov) for additional real-time streamflow information.

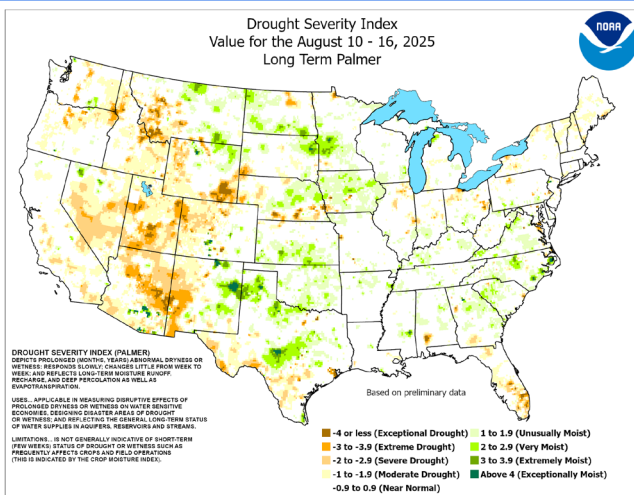
Visit the OWRB's [Water Data and Analysis Portal](#) for continuous and discrete water quality and quantity data for Oklahoma lakes, streams, and aquifers across the state.

### Average Streamflow Index



# Drought Conditions

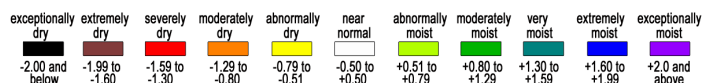
## Palmer Drought Severity Index (PDSI)



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

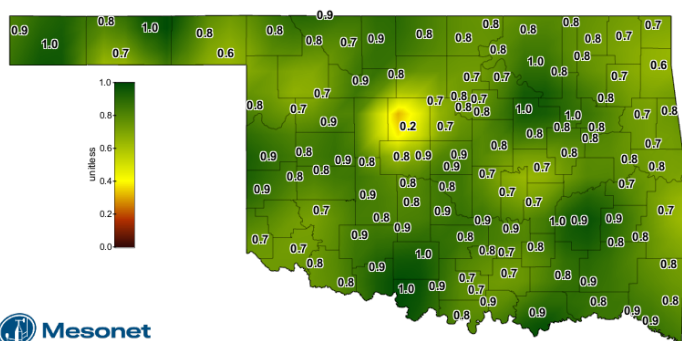
## Standardized Precipitation Index (SPI) Through July 2025

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



The SPI provides a comparison of precipitation over several specified time periods with totals for all years in the historical record. Through July 2025, all regions were Near Normal or wetter for all time periods shown.

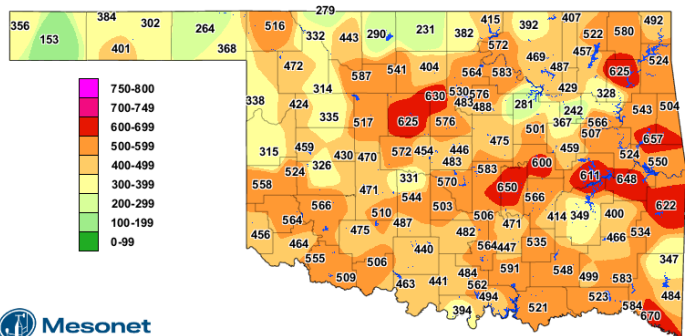
## Soil Moisture



1-day Average 4-inch Bare Soil Fractional Water Index August 20, 2025

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.

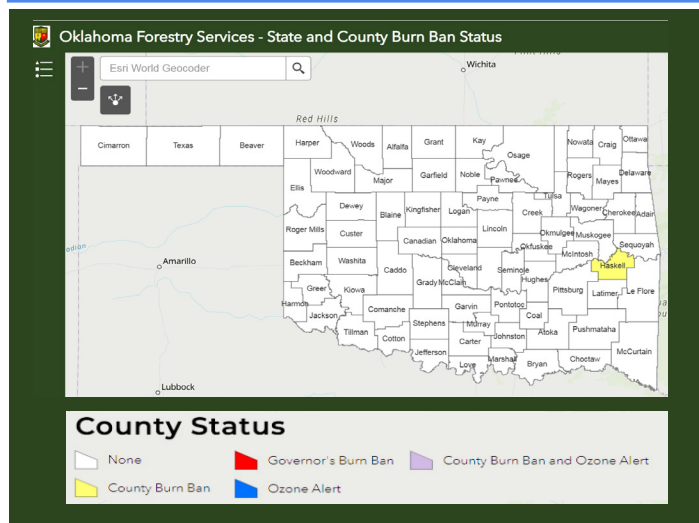
## Keetch-Byram Drought Index



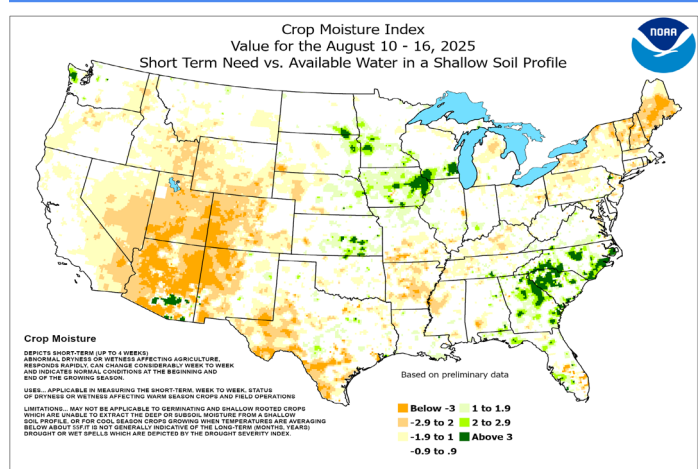
Keetch-Byram Drought Index

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





# Oklahoma Drought Monitor

~80,600

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

↑ 100% since last week

16th

wettest June on record (since 1895)

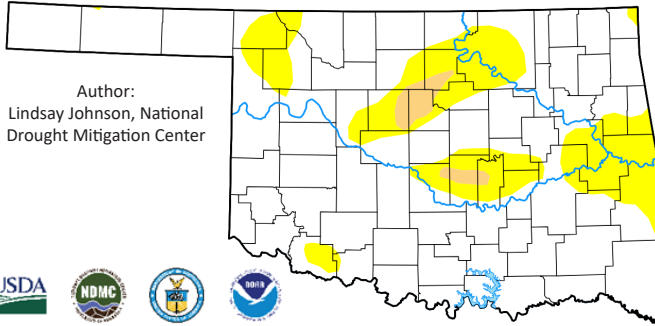
6.51 in. total precipitation  
↑ 2.49 in. from normal

10th

wettest January–June on record (since 1895)

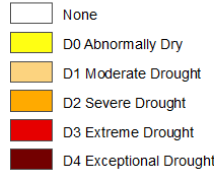
24.78 in. total precipitation  
↑ 6.98 in. from normal

Statistics valid as of 8/21/25



August 19, 2025  
(Released August 21, 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.

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2025-08-19	79.35	20.65	1.77	0.00	0.00	0.00	22
Last Week to Current	2025-08-12	92.00	8.00	0.00	0.00	0.00	0.00	8
3 Months Ago to Current	2025-05-20	84.48	15.52	11.94	2.99	0.00	0.00	30
Start of Calendar Year to Current	2024-12-31	70.28	29.72	5.52	0.33	0.00	0.00	36
Start of Water Year to Current	2024-10-01	22.82	77.18	61.31	37.39	11.50	0.00	187
One Year Ago to Current	2024-08-20	27.83	72.17	39.66	10.24	0.00	0.00	122

**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

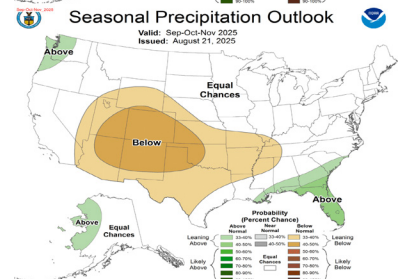
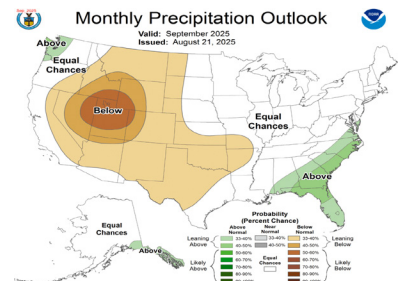
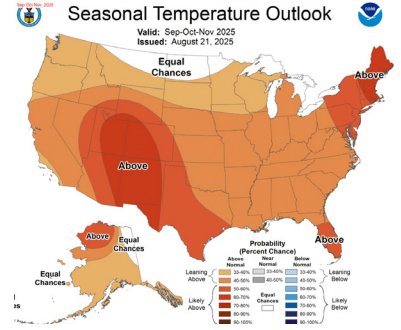
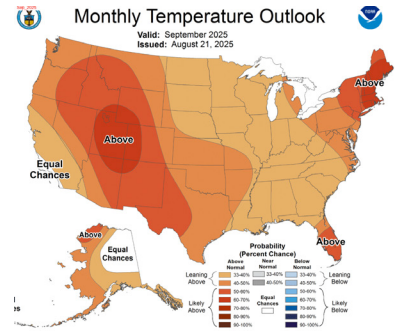
**D3 - Extreme Drought**

- 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

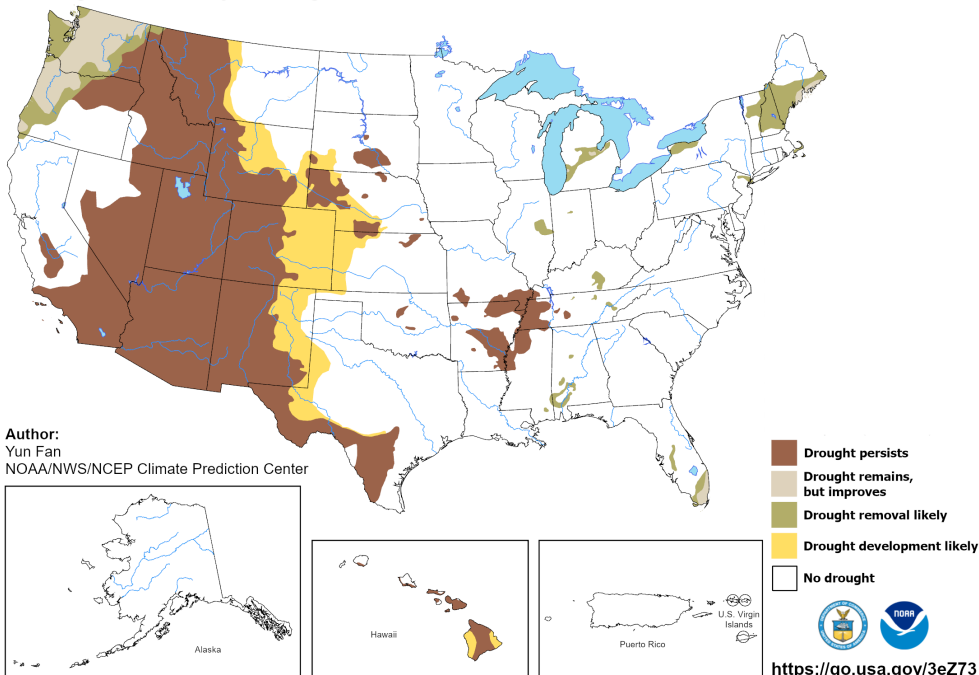


## Drought Probability

### U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for August 21 - November 30, 2025  
Released August 21, 2025



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.

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