

# Oklahoma Water Resources Bulletin

## Summary of Current Conditions

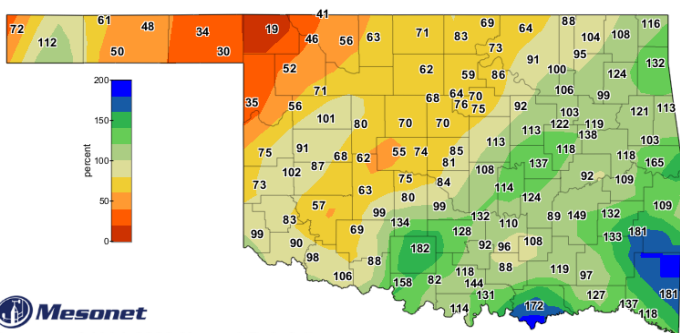
April 10, 2025

### Precipitation

Last 30 Days: March 11, 2025, through April 9, 2025

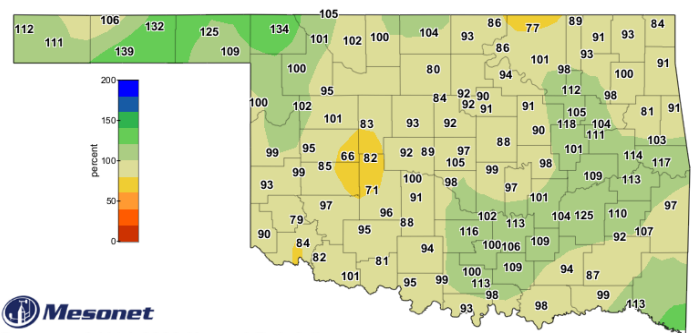
Last 365 Days: April 10, 2024, through April 9, 2025

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	0.63"	-0.93"	40%	36th driest	PANHANDLE	23.18"	+2.60"	113%	28th wettest
N. CENTRAL	1.57"	-1.05"	60%	48th driest	N. CENTRAL	28.65"	-2.77"	91%	48th driest
NORTHEAST	3.54"	+0.04"	101%	38th wettest	NORTHEAST	40.06"	-2.61"	94%	48th wettest
W. CENTRAL	1.73"	-0.51"	77%	50th wettest	W. CENTRAL	25.16"	-3.24"	89%	48th driest
CENTRAL	2.62"	-0.48"	84%	44th wettest	CENTRAL	34.47"	-3.16"	92%	52nd wettest
E. CENTRAL	4.74"	+0.98"	126%	26th wettest	E. CENTRAL	49.29"	+3.15"	107%	30th wettest
SOUTHWEST	1.91"	-0.35"	85%	43rd wettest	SOUTHWEST	25.83"	-4.44"	85%	39th driest
S. CENTRAL	4.06"	+0.81"	125%	27th wettest	S. CENTRAL	41.30"	+0.59"	101%	38th wettest
SOUTHEAST	6.25"	+2.00"	147%	16th wettest	SOUTHEAST	52.92"	+2.33"	105%	39th wettest
STATEWIDE	2.96"	+0.01"	100%	39th wettest	STATEWIDE	35.55"	-0.92"	97%	44th wettest



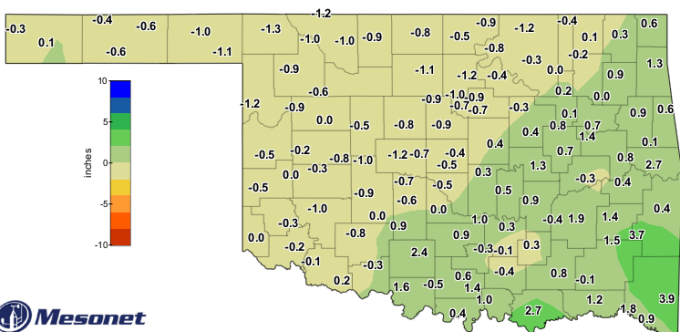
Percent of 1991-2020 Normal Rainfall  
Last 30 Days

Mar 11, 2025 through Apr 9, 2025  
Created 3:42:52 AM April 10, 2025 CDT. Copyright 2025



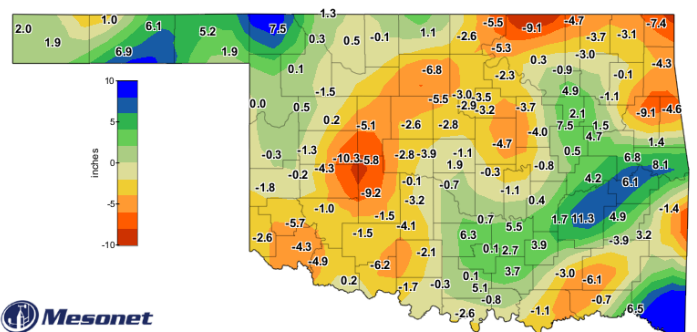
Percent of 1991-2020 Normal Rainfall  
Last 365 Days

Apr 10, 2024 through Apr 9, 2025  
Created 3:43:46 AM April 10, 2025 CDT. Copyright 2025



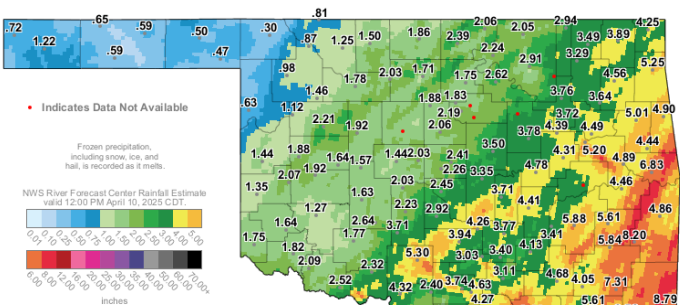
Departure from 1991-2020 Normal Rainfall  
Last 30 Days

Mar 11, 2025 through Apr 9, 2025  
Created 3:42:52 AM April 10, 2025 CDT. Copyright 2025



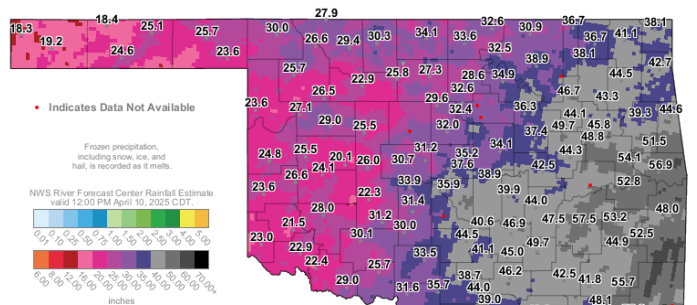
Departure from 1991-2020 Normal Rainfall  
Last 365 Days

Apr 10, 2024 through Apr 9, 2025  
Created 3:43:46 AM April 10, 2025 CDT. Copyright 2025



30-Day Rainfall Accumulation (inches)

1:30 PM April 10, 2025 CDT  
Created 1:37:43 PM April 10, 2025 CDT. Copyright 2025

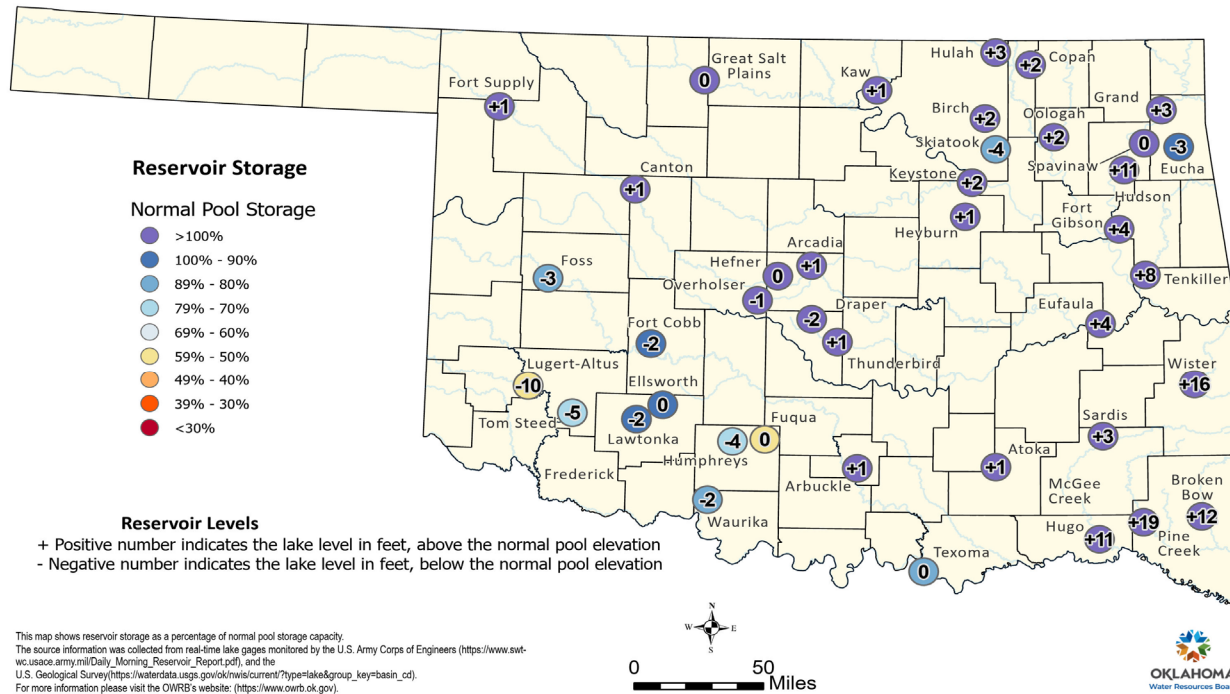


365-Day Rainfall Accumulation (inches)

1:30 PM April 10, 2025 CDT  
Created 1:37:43 PM April 10, 2025 CDT. Copyright 2025

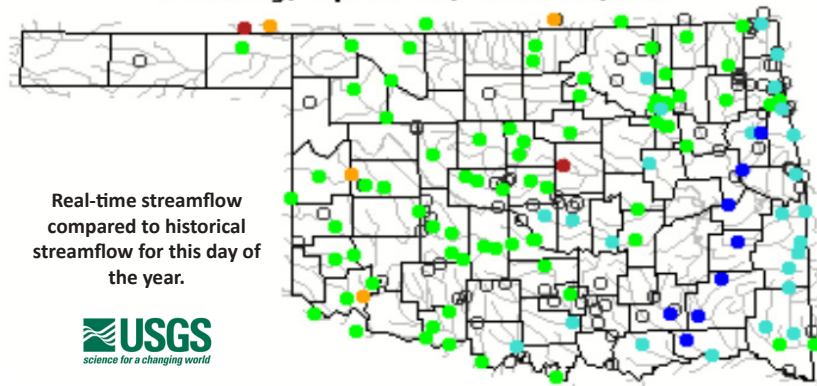
## Reservoir Levels

### Oklahoma Reservoir Levels and Storage as of 4/8/2025



## Streamflow

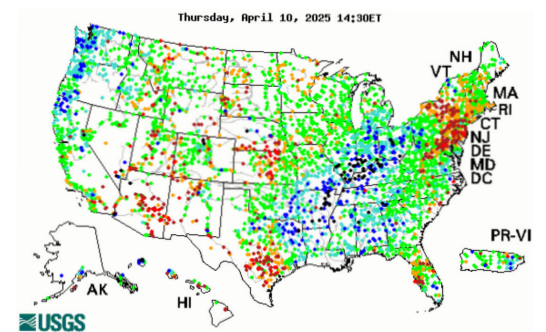
Thursday, April 10, 2025 14:30ET



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.

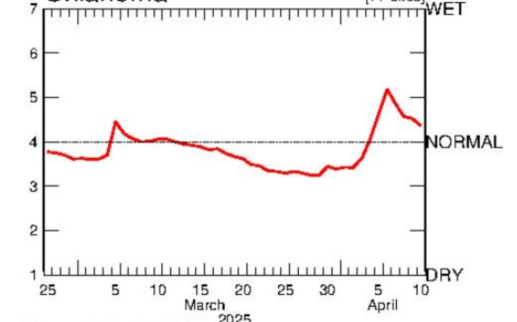
Visit the OWRB's [Water Data and Analysis Portal](#) for continuous and discrete water quality and quantity data for Oklahoma lakes, streams, and aquifers across the state.



### Average Streamflow Index

Last 45 Days

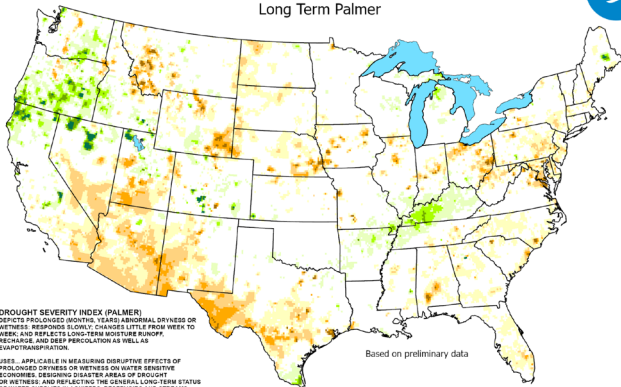
Oklahoma



# Drought Conditions

## Palmer Drought Severity Index (PDSI)

Drought Severity Index  
Value for the March 30 - April 5, 2025  
Long Term Palmer



**DROUGHT SEVERITY INDEX (PALMER)**  
DEFECTS PROLONGED MONTHLY, YEARLY, ANNUAL DROUGHT OR WETNESS RESPONSES SLOWLY CHANGES LITTLE FROM WEEK TO WEEK, AND REFLECTS LONG-TERM MOISTURE SURPLUS, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.  
USES: APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DROUGHT OR WETNESS ON WATER SENSITIVE ECOSYSTEMS, DRAINAGE BASIN AREAS OF DROUGHT OR WETNESS, AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS AND STREAMS.  
LIMITATIONS: IS NOT GENERALLY INDICATIVE OF SHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECT CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).

Based on preliminary data

■ -4 or less (Exceptional Drought) ■ 1 to 1.9 (Unusually Moist)  
■ -3 to -3.9 (Extreme Drought) ■ 2 to 2.9 (Very Moist)  
■ -2 to -2.9 (Severe Drought) ■ 3 to 3.9 (Extremely Moist)  
■ -1 to -1.9 (Moderate Drought) ■ Above 4 (Exceptionally Moist)  
■ -0.9 to 0.9 (Near Normal)

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

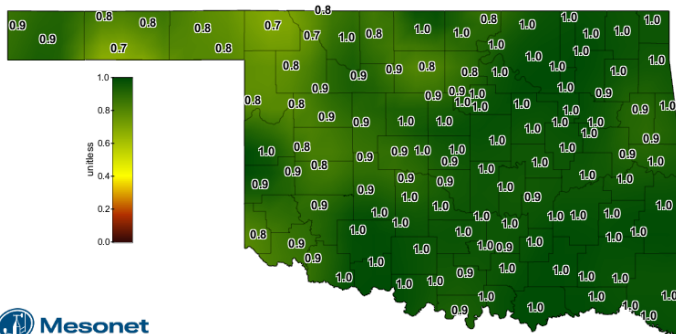
## Standardized Precipitation Index (SPI) Through March 2025

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

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

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 several regions were Moderately Dry for the 3-month period.

## Soil Moisture



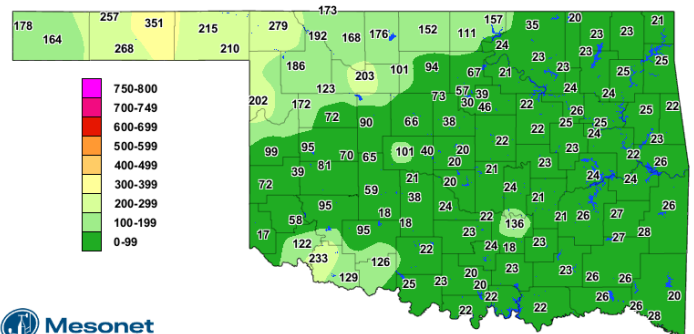
### 1-day Average 4-inch Bare Soil Fractional Water Index

April 9, 2025

Created 7:30:14 AM April 10, 2025 CDT. © Copyright 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



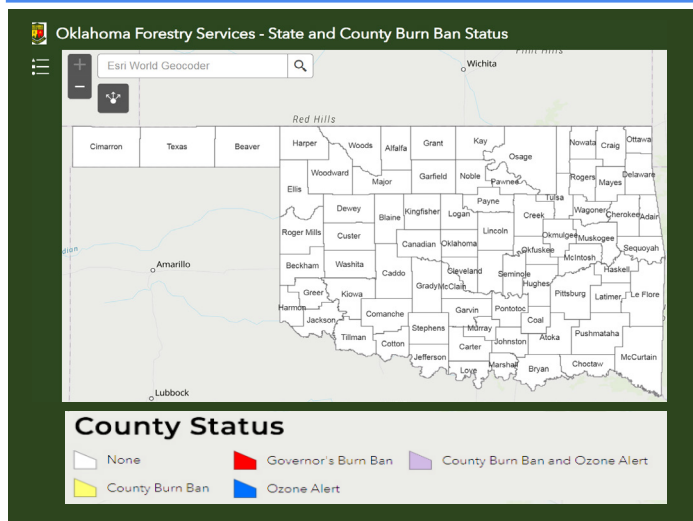
### Keetch-Byram Drought Index

2:45 PM April 10, 2025 CDT

Created 3:00:59 PM April 10, 2025 CDT. © Copyright 2025

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.

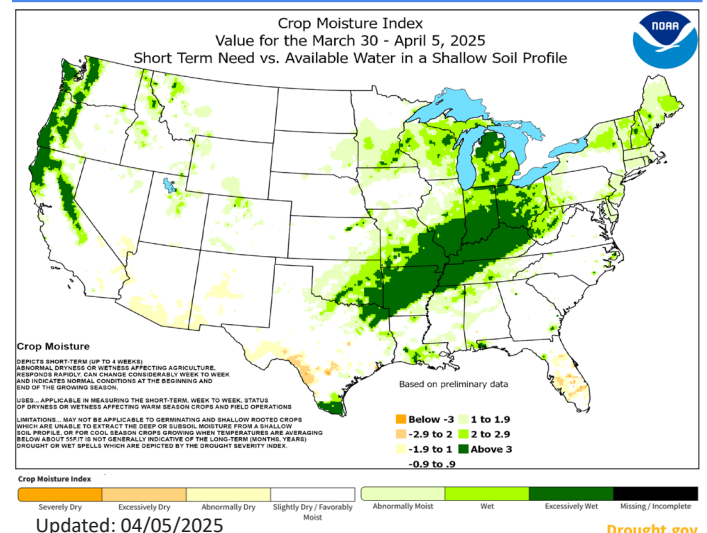
## State & County Burn Ban Status



### County Status

None Governor's Burn Ban County Burn Ban and Ozone Alert  
County Burn Ban Ozone Alert

## Crop Moisture Index



### Crop Moisture

DEFECTS PROLONGED MONTHLY, YEARLY, ANNUAL DROUGHT OR WETNESS RESPONSES SLOWLY CHANGES LITTLE FROM WEEK TO WEEK, AND REFLECTS LONG-TERM MOISTURE SURPLUS, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.  
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Below -3 -2.9 to 2 -1.9 to 1 Above 3  
-0.9 to 0.9

Severely Dry Excessively Dry Abnormally Dry Slightly Dry / Favorably Moist Abnormally Moist Wet Excessively Wet Missing / Incomplete

Updated: 04/05/2025

Drought.gov

# Oklahoma Drought Monitor

1

primary counties with  
USDA Drought Disaster  
Designations, according to  
the USDA Farm Service  
Agency

~601,600

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

↓ 26.3% since last week

41st

driest March on record  
(since 1895)

1.84 in. total precipitation

↓ 0.64 in. from normal

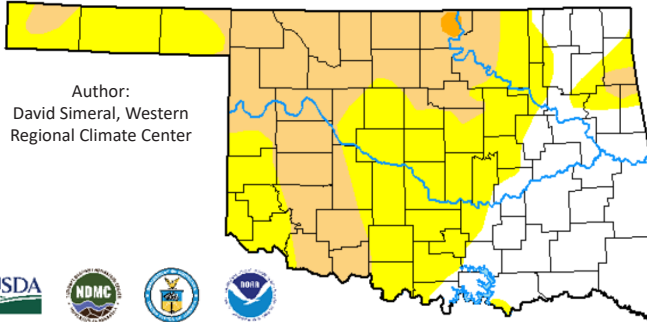
29th

driest January–March on  
record (since 1895)

3.78 in. total precipitation

↓ 1.75 in. from normal

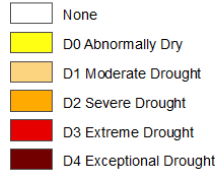
Statistics valid as of 04/08/25



Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSI
Current	2025-03-11	28.93	71.07	32.13	0.33	0.00	0.00	104
Last Week to Current	2025-03-04	19.11	80.89	25.66	0.33	0.00	0.00	107
3 Months Ago to Current	2024-12-10	53.30	46.70	17.91	1.85	0.00	0.00	66
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	2024-03-12	54.84	45.16	3.82	0.19	0.00	0.00	49

April 10, 2025  
(Released April 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

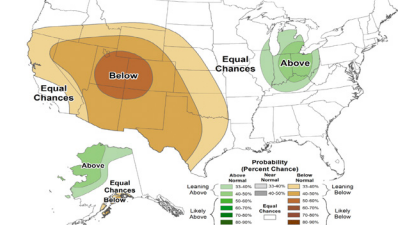
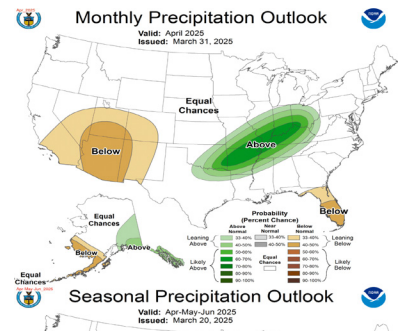
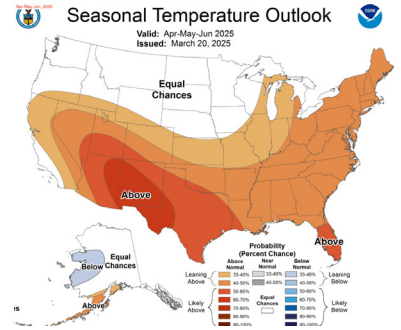
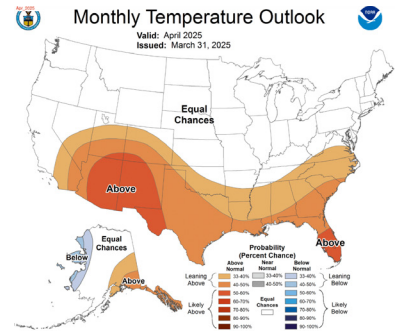
## D3 - Extreme Drought

- 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

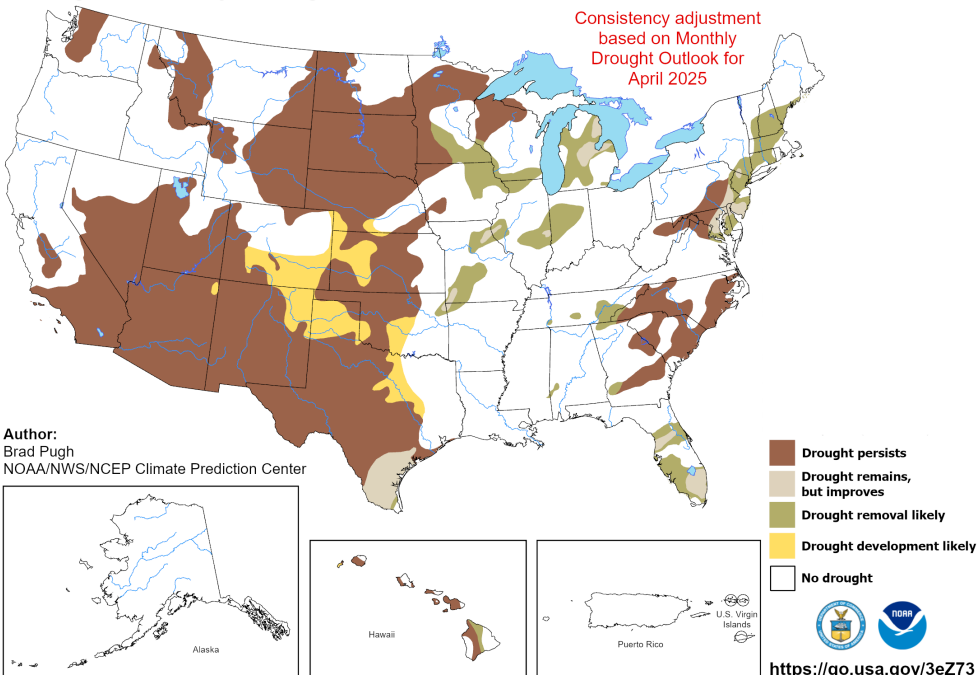


## Drought Probability

## U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for April 1 - June 30, 2025  
Released March 31, 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