

Oklahoma Water Resources Bulletin

Summary of Current Conditions

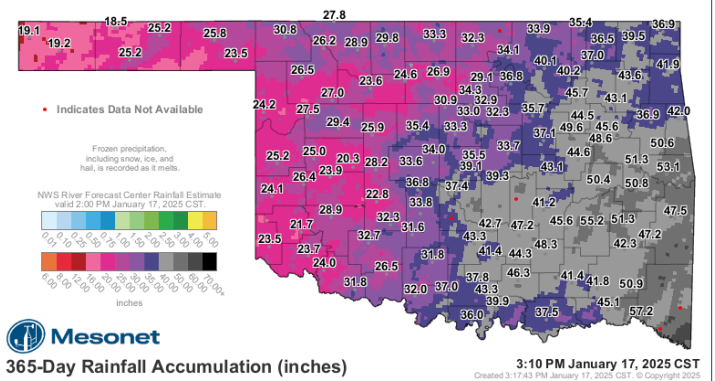
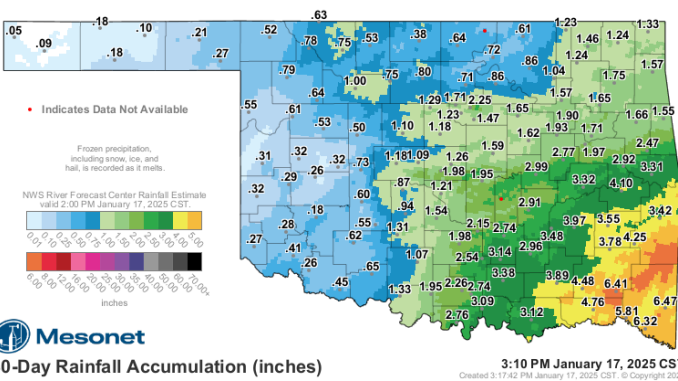
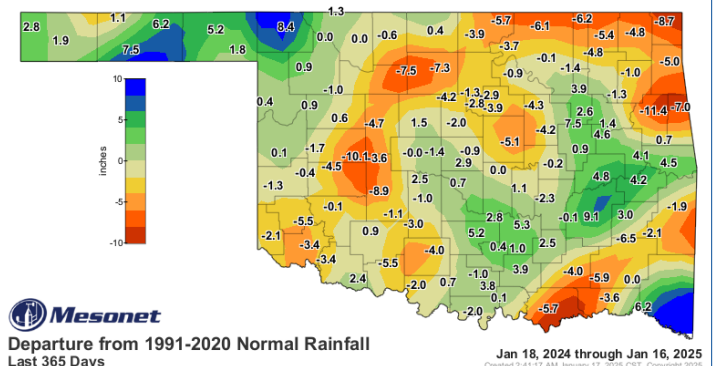
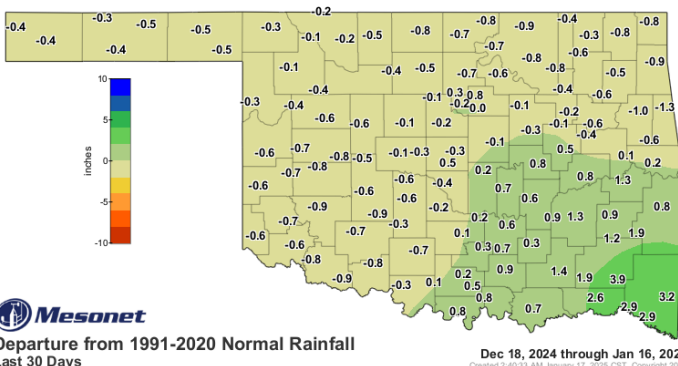
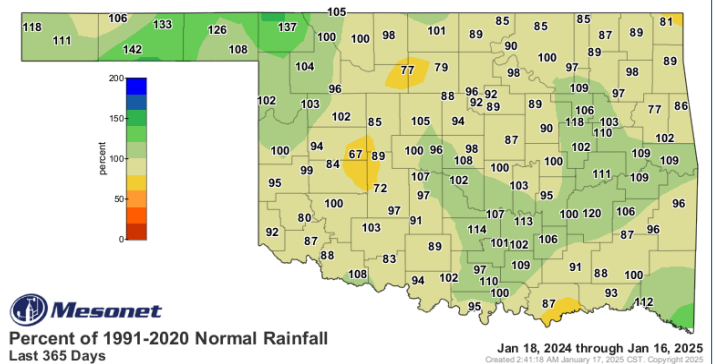
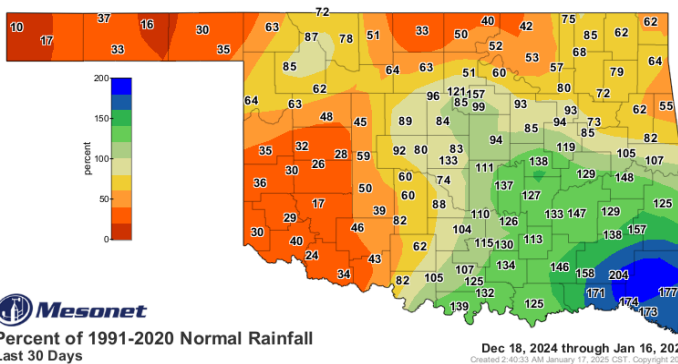
January 17, 2025

Precipitation

Last 30 Days: December 18, 2024, through January 16, 2025

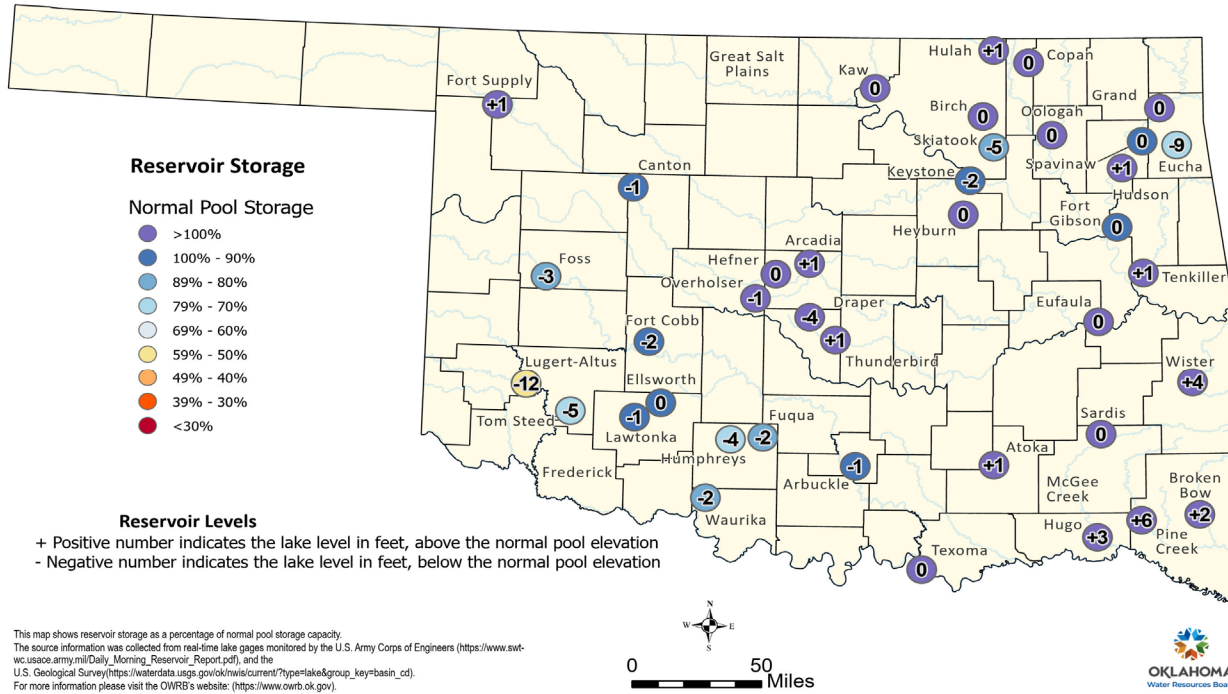
Last 365 Days: January 18, 2024, through January 16, 2025

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	0.24"	-0.41"	37%	41st driest	PANHANDLE	23.48"	+2.92"	114%	24th wettest
N. CENTRAL	0.69"	-0.29"	70%	52nd wettest	N. CENTRAL	28.41"	-2.97"	91%	47th driest
NORTHEAST	1.29"	-0.65"	67%	47th driest	NORTHEAST	39.66"	-2.95"	93%	51st driest
W. CENTRAL	0.38"	-0.57"	40%	36th driest	W. CENTRAL	25.31"	-3.06"	89%	50th driest
CENTRAL	1.54"	+0.02"	102%	38th wettest	CENTRAL	35.52"	-2.06"	95%	51st wettest
E. CENTRAL	2.79"	+0.18"	107%	26th wettest	E. CENTRAL	47.70"	+1.64"	104%	31st wettest
SOUTHWEST	0.45"	-0.66"	41%	37th driest	SOUTHWEST	26.91"	-3.32"	89%	44th driest
S. CENTRAL	2.64"	+0.48"	122%	22nd wettest	S. CENTRAL	40.64"	-0.01"	100%	37th wettest
SOUTHEAST	5.75"	+2.59"	182%	10th wettest	SOUTHEAST	50.32"	-0.18"	100%	47th wettest
STATEWIDE	1.70"	+0.04"	103%	35th wettest	STATEWIDE	35.30"	-1.12"	97%	45th wettest

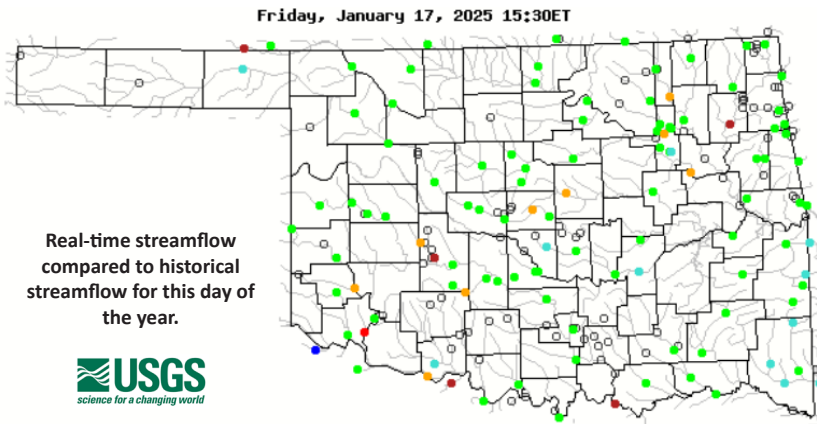


Reservoir Levels

Oklahoma Reservoir Levels and Storage as of 1/14/2025



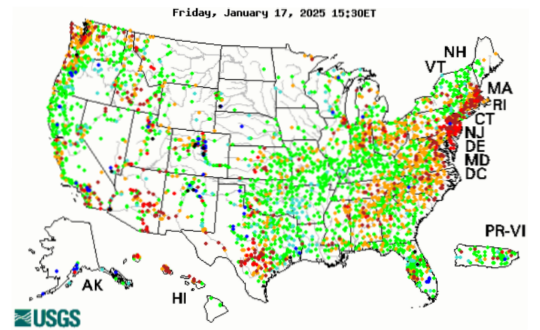
Streamflow



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

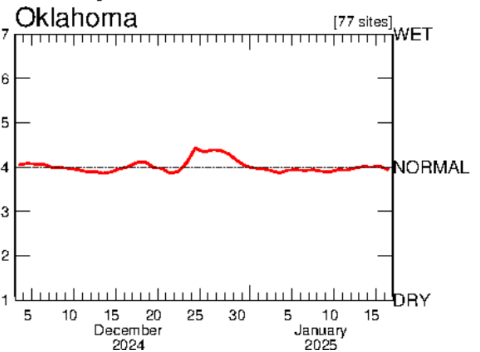
Visit waterwatch.usgs.gov for additional real-time streamflow information.

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.



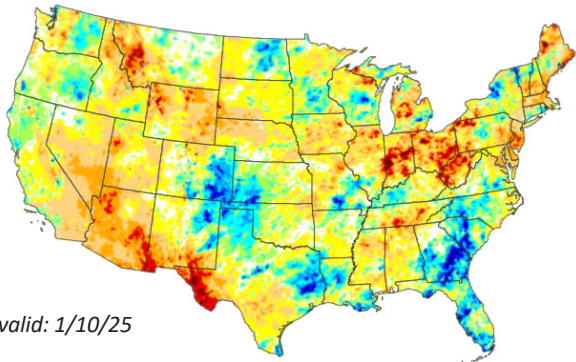
Average Streamflow Index

Last 45 Days



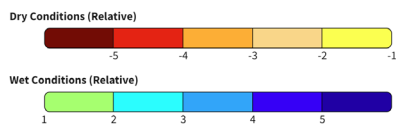
Drought Conditions

Palmer Drought Severity Index (PDSI)



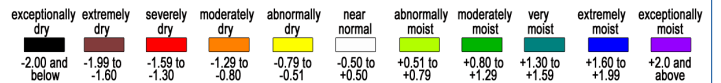
Data valid: 1/10/25

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



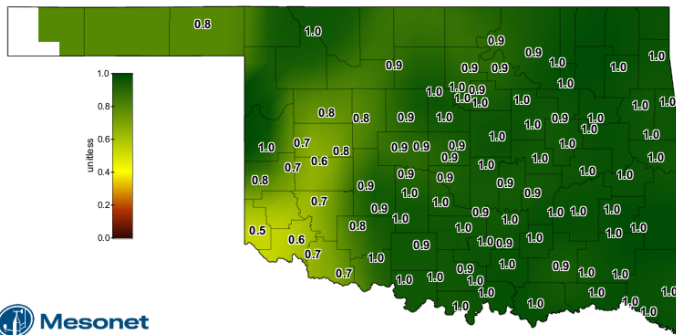
Standardized Precipitation Index (SPI) Through December 2024

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



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 December 2024, all regions were abnormally moist or wetter.

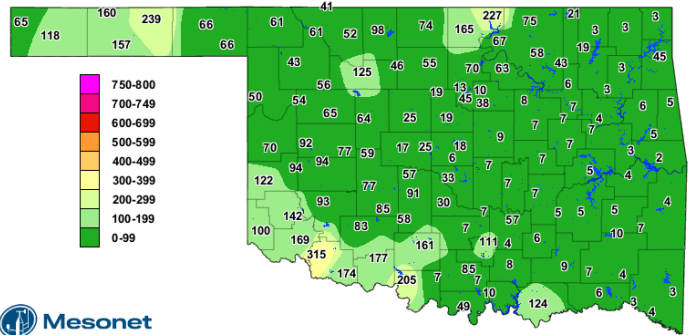
Soil Moisture



1-day Average 4-inch Bare Soil Fractional Water Index January 16, 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.

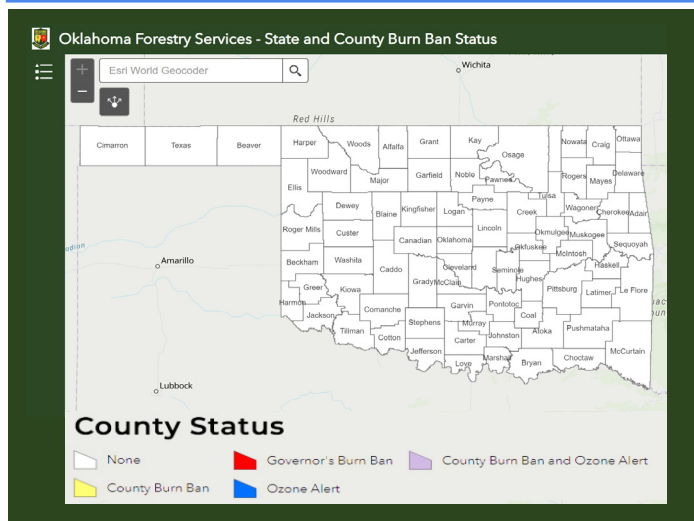
Keetch-Byram Drought Index



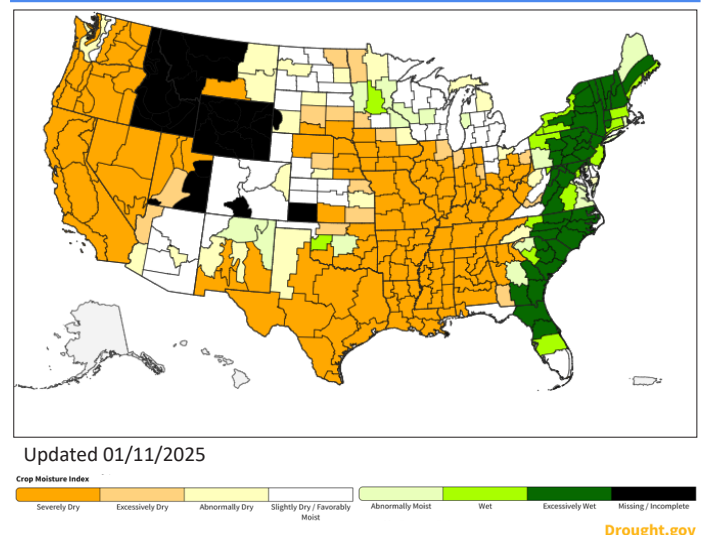
Keetch-Byram Drought Index

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



Updated 01/11/2025



Drought.gov

Oklahoma Drought Monitor

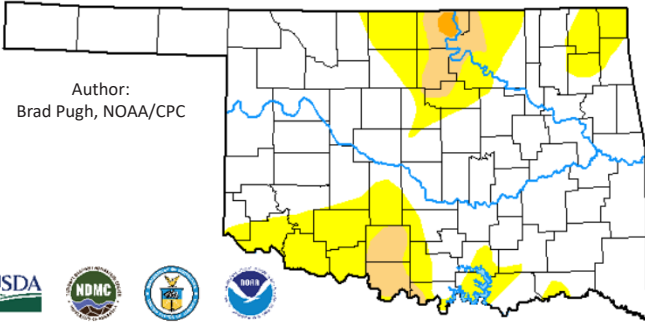
62
primary counties with
USDA Drought Disaster
Designations, according to
the USDA Farm Service
Agency

~123,100
Oklahoma residents in
areas of drought, according
to the Drought Monitor
↓ 3.2% since last week

65th
wettest December on
record (since 1895)
1.49 in. total precipitation
↓ 0.23 in. from normal

47th
wettest January—
December on record (since
1895)
36.36 in. total
precipitation
↑ 2.52 in. from normal

Statistics valid as of 1/14/25



Author:
Brad Pugh, NOAA/CPC



droughtmonitor.unl.edu

January 14, 2025
(Released January 16, 2025)
Valid 8 a.m. EDT

Intensity:

- None
- 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.

- 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 baling 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

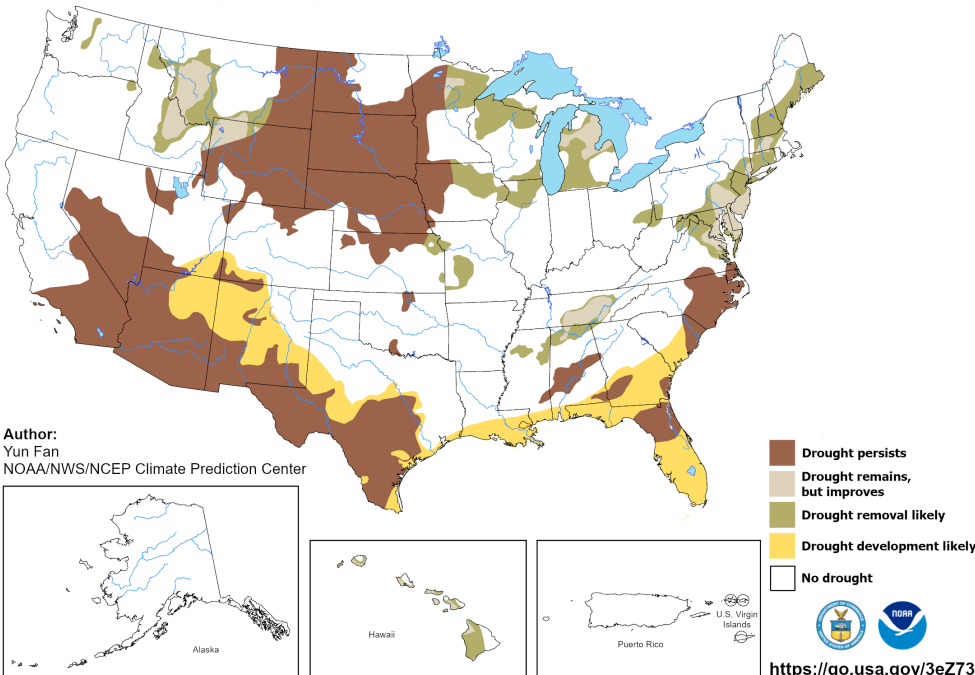
Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2025-01-14	75.12	24.88	5.24	0.33	0.00	0.00	30
Last Week to Current	2025-01-07	70.28	29.72	5.52	0.33	0.00	0.00	36
3 Months Ago to Current	2024-10-15	14.41	85.59	70.97	52.37	31.44	0.00	240
Start of Calendar Year to Current	2024-12-31	70.28	29.72	5.52	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	2024-01-16	65.81	34.19	15.01	1.67	0.00	0.00	51

Drought Probability

U.S. Seasonal Drought Outlook

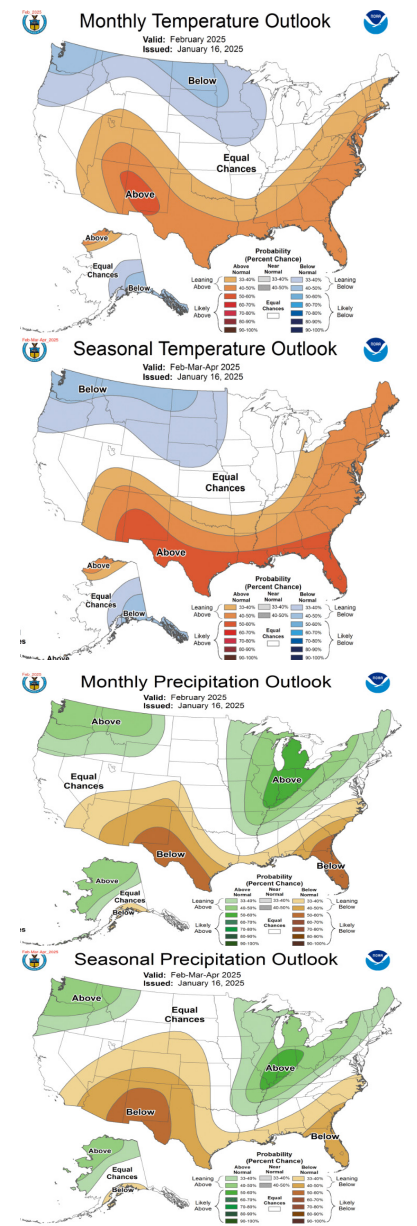
Drought Tendency During the Valid Period

Valid for January 16 - April 30, 2025
Released January 16, 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.

Monthly/Seasonal Outlook



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