

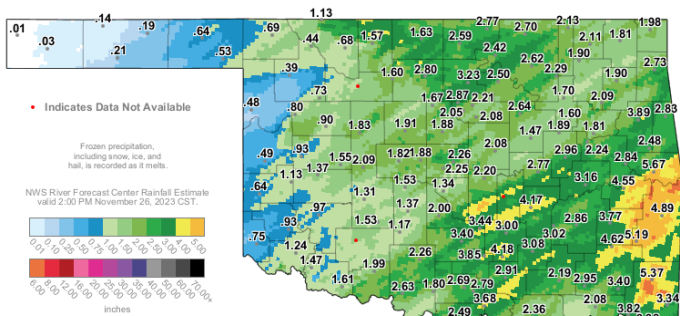
Oklahoma Water Resources Bulletin

Summary of Current Conditions

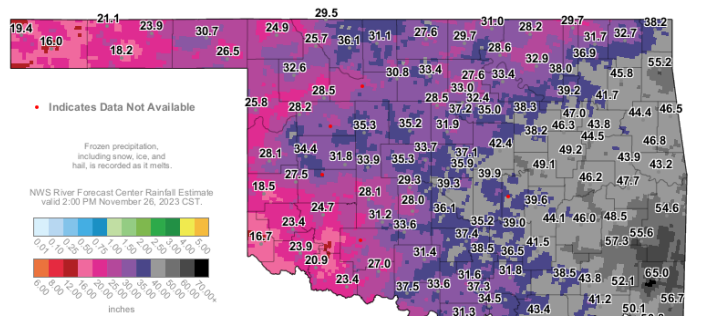
November 26, 2023

Precipitation

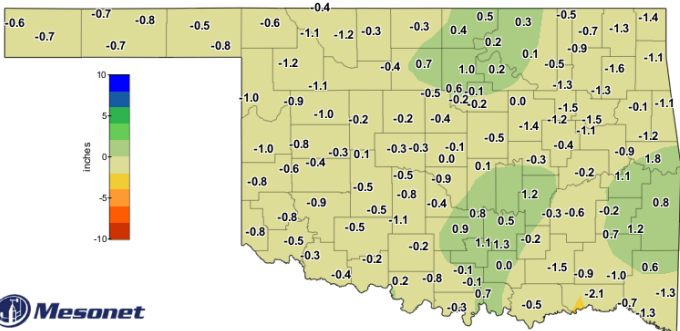
Climate Division	Last 30 Days: October 27, 2023 – November 25, 2023				Last 365 Days: November 26, 2022 – November 25, 2023			
	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	Rank Since 1921	Total Rainfall (inches)	Departure From Normal (inches)	Percent of Normal	RANK SINCE 1921
PANHANDLE	0.16"	-0.77"	17%	23rd driest	22.88"	+2.30"	111%	24th wettest
N. CENTRAL	1.47"	-0.42"	78%	51st driest	30.53"	-0.89"	97%	48th wettest
NORTHEAST	2.12"	-1.08"	66%	41st driest	38.03"	-4.64"	89%	41st driest
W. CENTRAL	0.91"	-0.76"	55%	45th driest	30.37"	+1.97"	107%	26th wettest
CENTRAL	2.01"	-0.61"	77%	51st driest	36.60"	-1.03"	97%	44th wettest
E. CENTRAL	3.38"	-0.59"	85%	42nd wettest	45.85"	-0.29"	99%	44th wettest
SOUTHWEST	1.40"	-0.55"	72%	48th driest	26.39"	-3.88"	87%	34th driest
S. CENTRAL	3.00"	-0.08"	97%	42nd wettest	37.33"	-3.38"	92%	44th driest
SOUTHEAST	3.93"	-0.85"	82%	49th wettest	53.17"	+2.58"	105%	34th wettest
STATEWIDE	2.03"	-0.62"	77%	50th driest	35.50"	-0.97"	97%	49th wettest



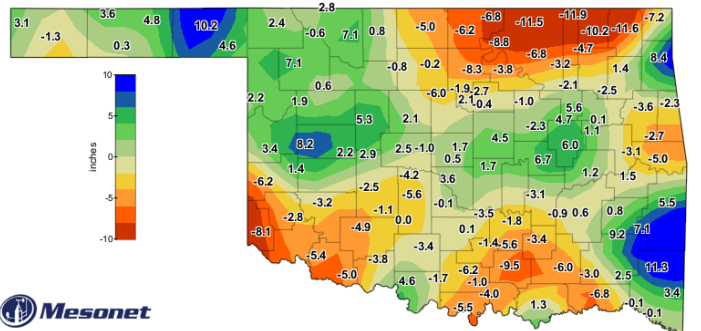
Mesonet
30-Day Rainfall Accumulation (inches)
3:35 PM November 26, 2023 CST
Created 3:41:02 PM November 26, 2023 CST. © Copyright 2023



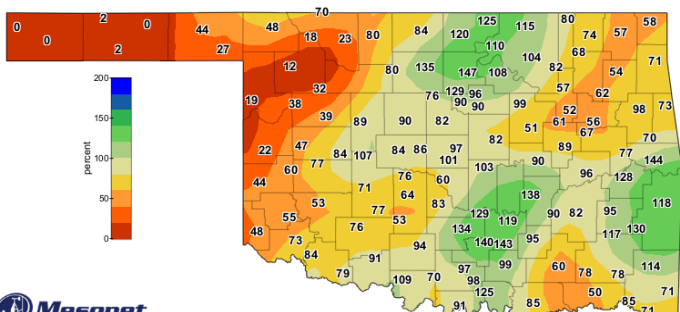
Mesonet
365-Day Rainfall Accumulation (inches)
3:35 PM November 26, 2023 CST
Created 3:41:03 PM November 26, 2023 CST. © Copyright 2023



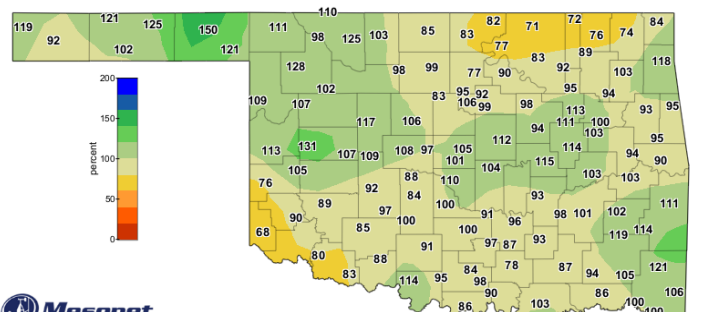
Mesonet
Departure from 1991-2020 Normal Rainfall
Last 30 Days
Oct 27, 2023 through Nov 25, 2023
Created 2:41:29 AM November 26, 2023 CST. Copyright 2023



Mesonet
Departure from 1991-2020 Normal Rainfall
Last 365 Days
Nov 26, 2022 through Nov 25, 2023
Created 2:42:16 AM November 26, 2023 CST. Copyright 2023



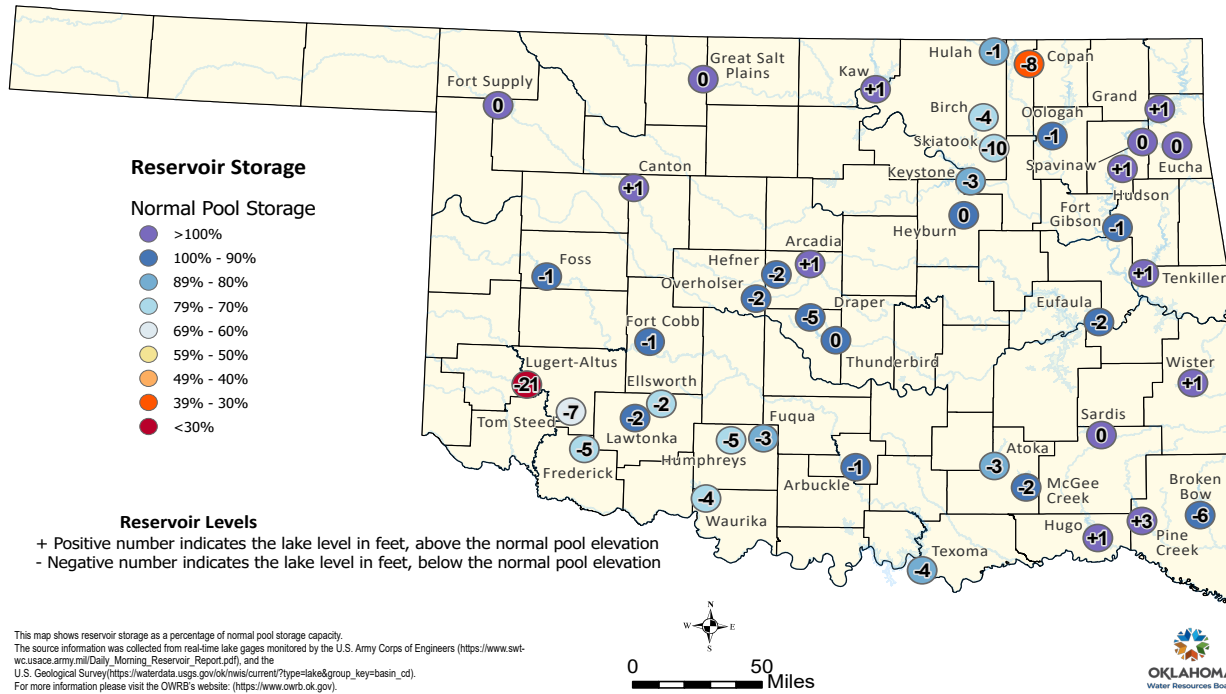
Mesonet
Percent of 1991-2020 Normal Rainfall
Last 30 Days
Oct 27, 2023 through Nov 25, 2023
Created 2:41:29 AM November 26, 2023 CST. Copyright 2023



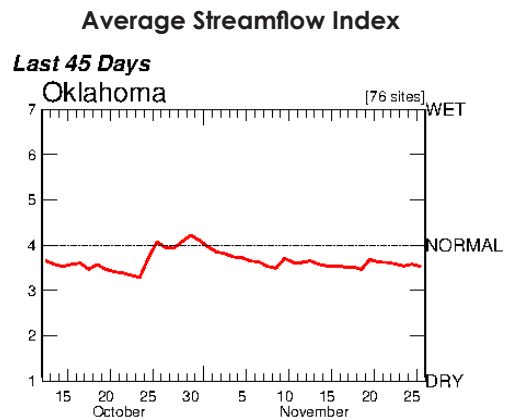
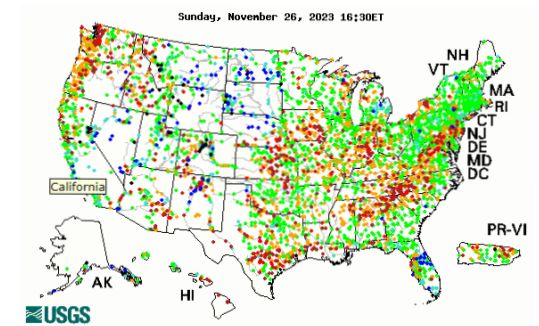
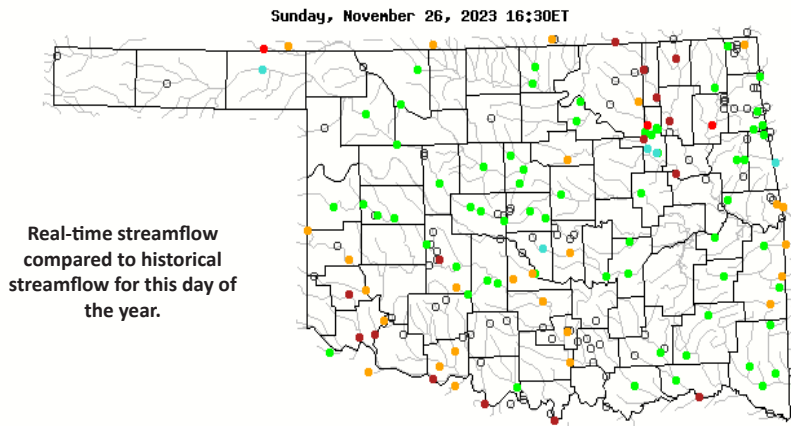
Mesonet
Percent of 1991-2020 Normal Rainfall
Last 365 Days
Nov 26, 2022 through Nov 25, 2023
Created 2:42:16 AM November 26, 2023 CST. Copyright 2023

Reservoir Levels

Oklahoma Reservoir Levels and Storage as of 11/20/2023



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

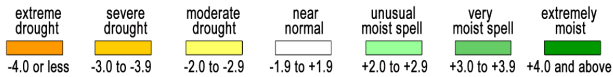
Visit waterwatch.usgs.gov for additional real-time streamflow information.

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.

Drought Conditions

Palmer Drought Severity Index (PDSI)

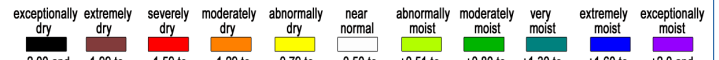
Climate Division	Status 11/18/23	Value 10/7	Value 11/18	Change in Value
NORTHWEST	Near Normal	3.4	1.46	-1.94
NORTH CENTRAL	Near Normal	2.14	1.88	-0.26
NORTHEAST	Near Normal	-0.17	-1.1	-0.93
WEST CENTRAL	Near Normal	1.57	1.06	-0.51
CENTRAL	Near Normal	0.37	0.31	-0.06
EAST CENTRAL	Near Normal	0.7	0.05	-0.65
SOUTHWEST	Near Normal	-0.8	-0.24	0.56
SOUTH CENTRAL	Near Normal	-0.86	0.43	1.29
SOUTHEAST	Near Normal	0.76	1.12	0.36



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 November 18, all climate regions are Near Normal.

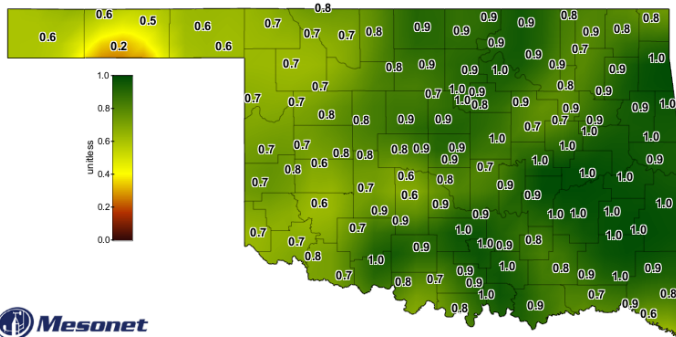
Standardized Precipitation Index (SPI) Through October 2023

3-month	12-month	24-month
Near Normal	Moderately Moist	Near Normal
Near Normal	Near Normal	Moderately Dry
Near Normal	Near Normal	Abnormally Dry
Near Normal	Moderately Moist	Near Normal
Near Normal	Abnormally Moist	Near Normal
Abnormally Moist	Abnormally Moist	Near Normal
Near Normal	Near Normal	Moderately Dry
Near Normal	Near Normal	Abnormally Dry
Near Normal	Abnormally Moist	Near Normal



The SPI provides a comparison of precipitation over several specified time periods with totals for the periods for all years in the historical record. Through October 2023, the North Central, Northeast, Southwest, and South Central regions were abnormally dry or worse for the 24-month period.

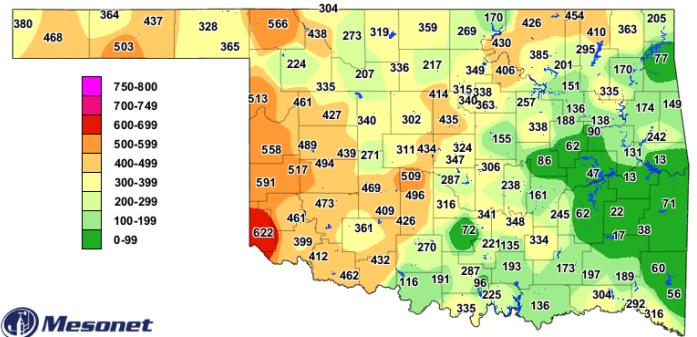
Soil Moisture



Mesonet
1-day Average 4-inch Bare Soil Fractional Water Index
November 25, 2023
Created 6:30:13 AM November 26, 2023 CST. © Copyright 2023

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).

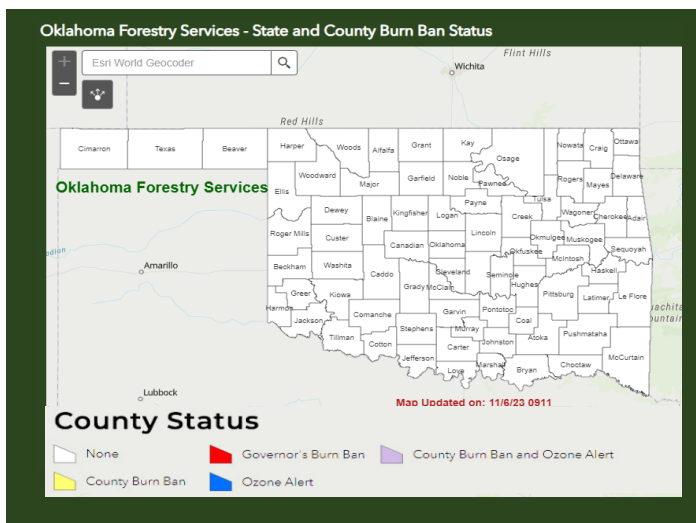
Keetch-Byram Drought Index



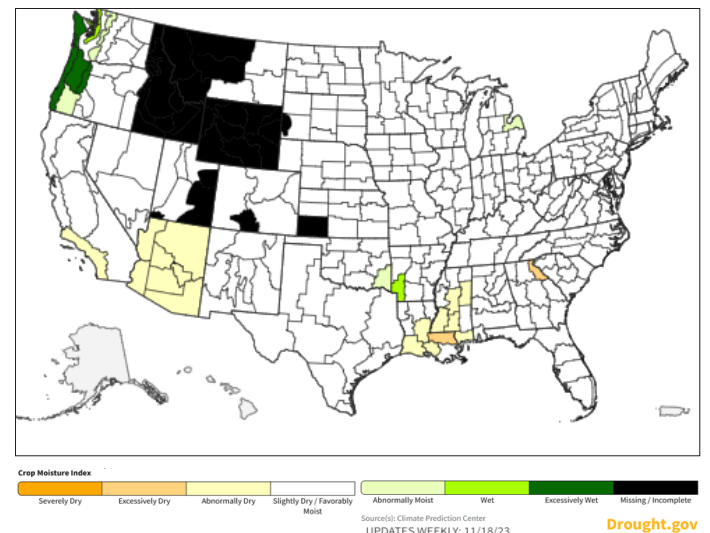
Mesonet
Keetch-Byram Drought Index
3:45 PM November 26, 2023 CST
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The Keetch-Byram Drought Index measures the state of near-surface soil moisture (within the uppermost eight inches of soil) as well as the amount of fuel available for fires. KBDI values > 600 are often associated with severe drought and increased wildfire occurrence.

State & County Burn Ban Status



Crop Moisture Index



Oklahoma Drought Monitor

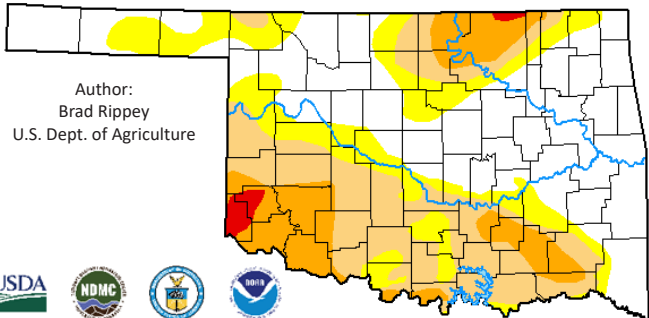
74
counties with USDA Drought Disaster Designations (primary)
— 0 counties since last week

~796,700
Oklahoma residents in areas of drought, according to the Drought Monitor
— 0.0% since last week

34th
wettest October on record (since 1895)
3.91 in. total precipitation
↑ 0.92 in. from normal

40th
wettest January—October on record (since 1895)
32.56 in. total precipitation
↑ 2.66 in. from normal

- 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



Author:
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U.S. Dept. of Agriculture



droughtmonitor.unl.edu

November 21, 2023
(Released Nov. 22, 2023)
Valid 7 a.m. EDT

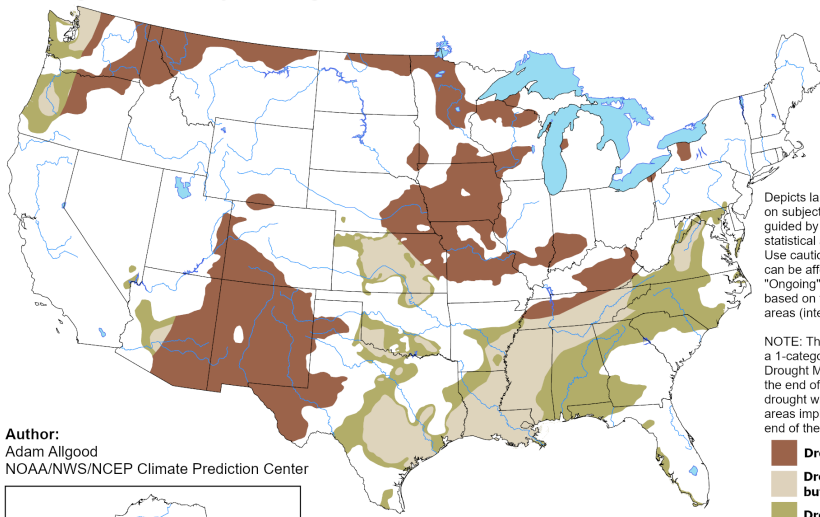
- Intensity:**
- None
 - D0 Abnormally Dry
 - D1 Moderate Drought
 - D2 Severe Drought
 - D3 Extreme Drought
 - D4 Exceptional Drought

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

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2023-11-21	44.68	55.32	36.34	13.68	1.16	0.00	107
Last Week to Current	2023-11-14	44.35	55.65	36.34	13.68	1.16	0.00	107
3 Months Ago to Current	2023-08-22	49.68	50.32	28.14	8.28	1.69	0.00	88
Start of Calendar Year to Current	2022-12-27	1.82	98.18	89.73	80.92	56.13	11.65	337
Start of Water Year to Current	2023-09-26	34.29	65.71	46.76	30.93	12.91	0.00	156
One Year Ago to Current	2022-11-22	0.00	100.00	97.68	87.88	64.46	19.77	370

Drought Probability

U.S. Seasonal Drought Outlook Valid for November 16, 2023 - February 29, 2024 Drought Tendency During the Valid Period Released November 16, 2023



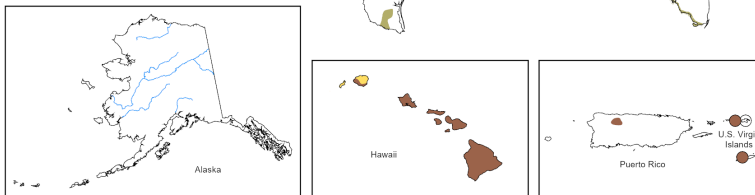
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The 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. The green areas imply drought removal by the end of the period (D0 or none).

- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought

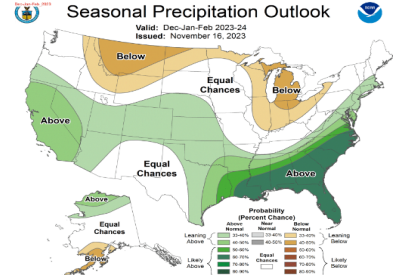
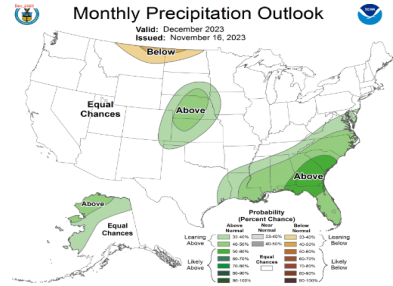
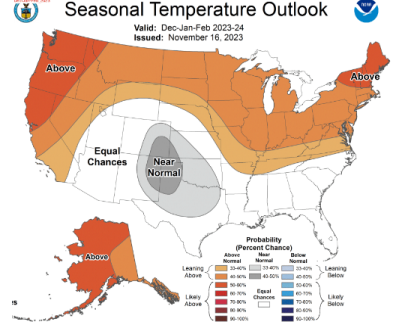
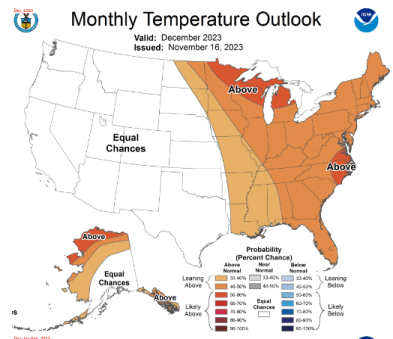
<https://go.usa.gov/3eZ73>

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



The seasonal drought outlook for December 2023 through February 2024 is influenced heavily by the anticipated midlatitude response to the ongoing El Niño, which favors an active southern stream with increased moisture across the southern CONUS. While widespread drought conditions continue across Texas and Oklahoma, recent conditions have been more favorable for amelioration.

Monthly/Seasonal Outlook



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