



# Drought Information Statement for Eastern OK & Northwestern AR

Valid October 4, 2024

Issued By: WFO Tulsa, OK

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- This product will be updated November 1, 2024 or sooner if drought conditions change significantly.
- Please see all currently available products at <https://drought.gov/drought-information-statements>.
- Please visit <https://www.weather.gov/tsa/DroughtInformationStatement> for previous statements.
- Please visit [https://www.drought.gov/drought-status-updates/?dews\\_region=132&state=All](https://www.drought.gov/drought-status-updates/?dews_region=132&state=All) for regional drought status updates.

- Moderate (D1) to Extreme (D3) Drought conditions expand across a large portion of eastern Oklahoma and northwestern Arkansas.
- Flash drought ongoing and expected to continue due to lack of rain and above normal temperatures.



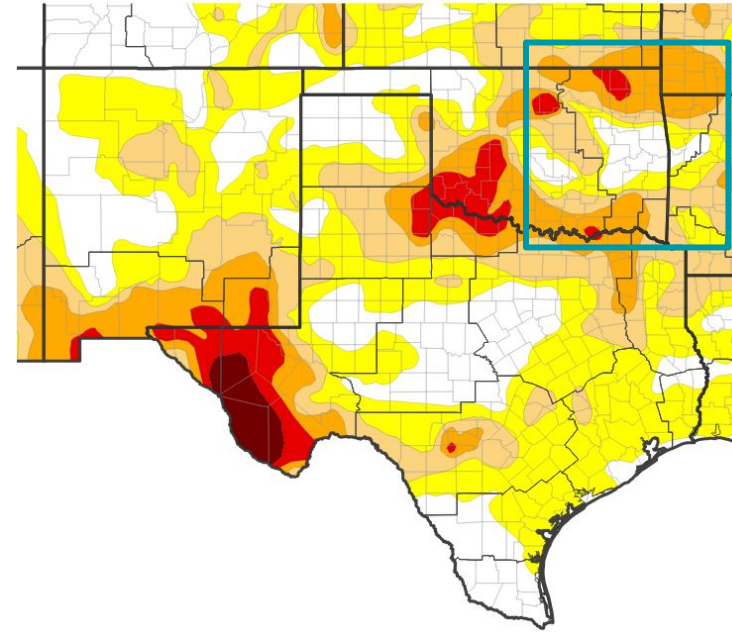


# U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for the southern U.S.

- Drought intensity and Extent
  - **D3 (Extreme Drought)**: portions of Osage, Washington, Nowata, Craig, Rogers, and Mayes Counties in northeast OK
  - **D2 (Severe Drought)**: portions of Osage, Pawnee, Washington, Tulsa, Rogers, Nowata, Craig, Mayes, Ottawa, Delaware, Choctaw and Pushmataha Counties in eastern OK, and Benton, Washington, Carroll, and Madison Counties in northwest AR
  - **D1 (Moderate Drought)**: portions of Osage, Pawnee, Creek, Okfuskee, Okmulgee, Tulsa, Rogers, Mayes, Delaware, Adair, Cherokee, Wagoner, Pushmataha, Pittsburg, and Le Flore Counties in eastern OK, and Washington, Madison, and Carroll Counties in northwest AR
  - **D0: (Abnormally Dry)**: parts of Osage, Pawnee, Creek, Okmulgee, McIntosh, Pittsburg, Latimer, Le Flore, Tulsa, Wagoner, Cherokee, and Adair Counties in eastern OK and Washington, Crawford, Sebastian, Franklin, and Madison Counties in northwest AR

U.S. Drought Monitor



U.S. Drought Monitor



Source(s): NDMC, NOAA, USDA; image courtesy of Drought.gov

Data Valid: 10/01/24

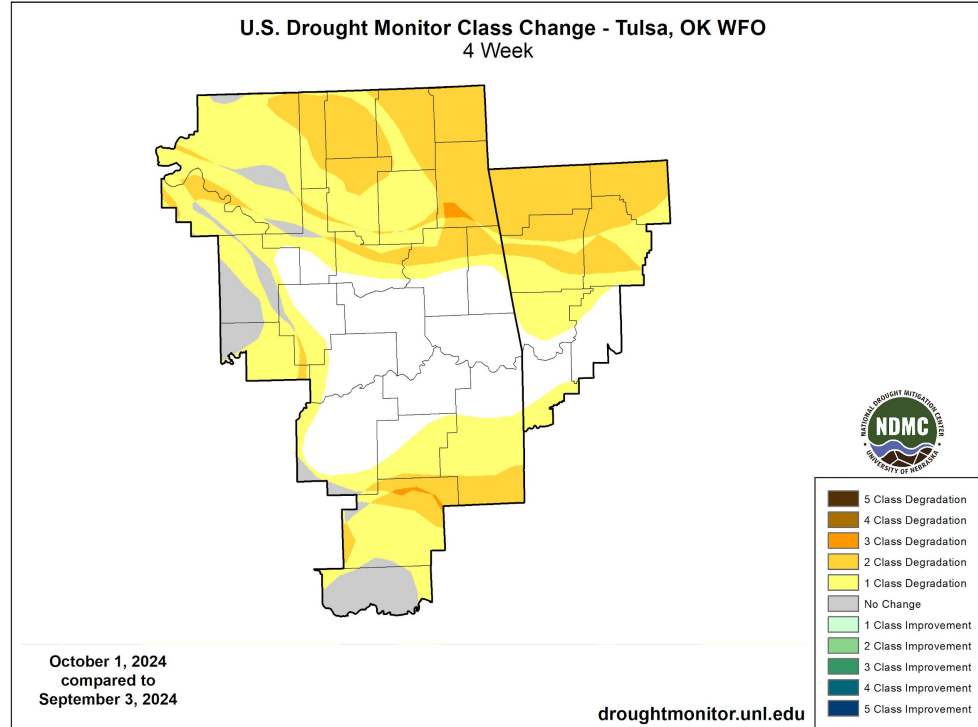




# Recent Change in Drought Intensity

Link to the latest [4-week change map](#) for eastern Oklahoma and northwestern Arkansas

- Four Week Drought Monitor Class Change:
  - Drought Worsened: Osage, Pawnee, Washington, Nowata, Craig, Ottawa, Delaware, Mayes, Rogers, Tulsa, Creek, Okfuskee, Okmulgee, McIntosh, Wagoner, Cherokee, Adair, Le Flore, Pittsburg, Latimer, Pushmataha, and Choctaw Counties in eastern OK, and Benton, Washington, Carroll, Madison, Crawford, Franklin, and Sebastian Counties in northwest AR.
  - No Change: in portions of Osage, Pawnee, Tulsa, Creek, Okfuskee, Okmulgee, Pittsburg, Pushmataha, and Choctaw Counties in eastern OK.

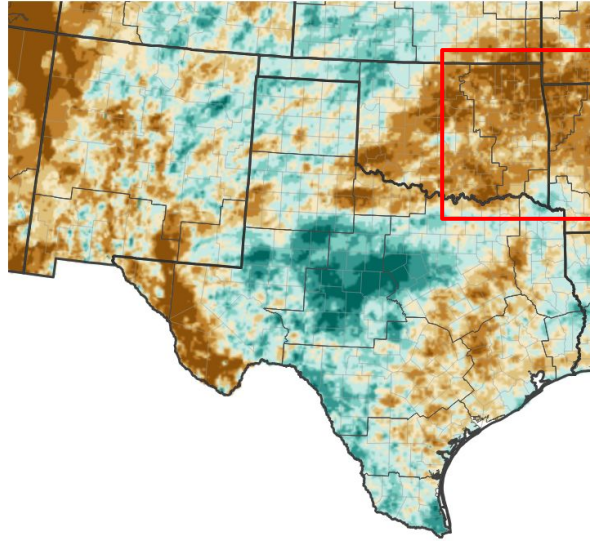




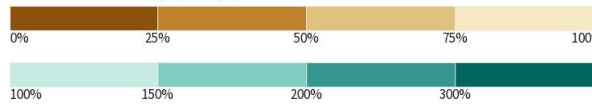
# Precipitation

- For the 7-day period through the morning of Oct. 4, 2024, only a few hundredths of an inch of rain has fallen in eastern Carroll County. Otherwise, there has been no rainfall in the last 7 days.
- For the last 30 days through the morning of Oct. 4, 2024, rainfall totals across the area ranged from 0.4” to 3”, with much of the area receiving 0.1”-1”. This corresponds to 1%-60% of the normal rainfall.

30-Day Precipitation: Percent of PRISM Normal

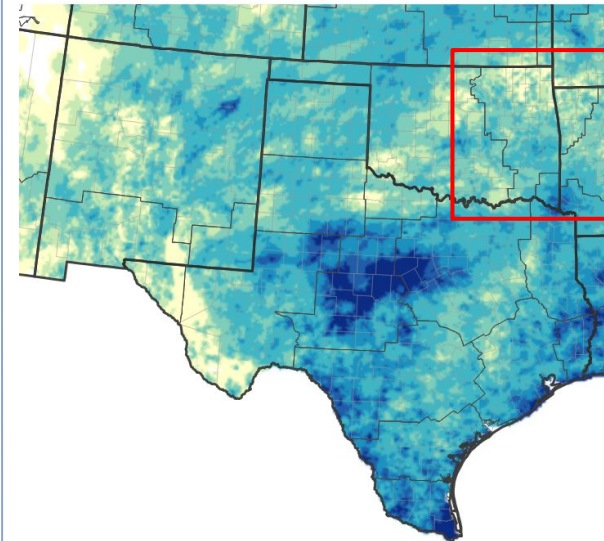


Percent of Normal Precipitation (%)



Source(s): National Weather Service National Water Prediction Service; image courtesy of Drought.gov Data Valid: 09/26/24

NWPS 30-Day Precipitation Accumulations (inches)



Inches of Precipitation



Source(s): National Weather Service National Water Prediction Service; image courtesy of Drought.gov Data Valid: 09/26/24







# Summary of Impacts

Links: See/submit [Condition Monitoring Observer Reports \(CMOR\)](#) and view the [Drought Impacts Reporter](#)

## Hydrologic Impacts

- Streamflow is below to much below average for this time of year across northeast OK, southeast OK, and northwest AR.
- Numerous reservoirs were below 90% of their conservation pools.

## Agricultural Impacts

- Low to dry farm ponds and lack of forage are impacting cattle producers in northeast OK.
- Lack of recent rain and above normal temperatures has resulted in lower soil moisture for agriculture.

## Fire Hazard Impacts

- Burn bans are in effect for parts of OK and AR.
- There is above normal significant wildland fire potential for nearly all of eastern OK and northeast AR.

## Other Impacts

- There are no known impacts at this time.

## Mitigation Actions

- Please refer to your municipality and/or water provider for mitigation information.

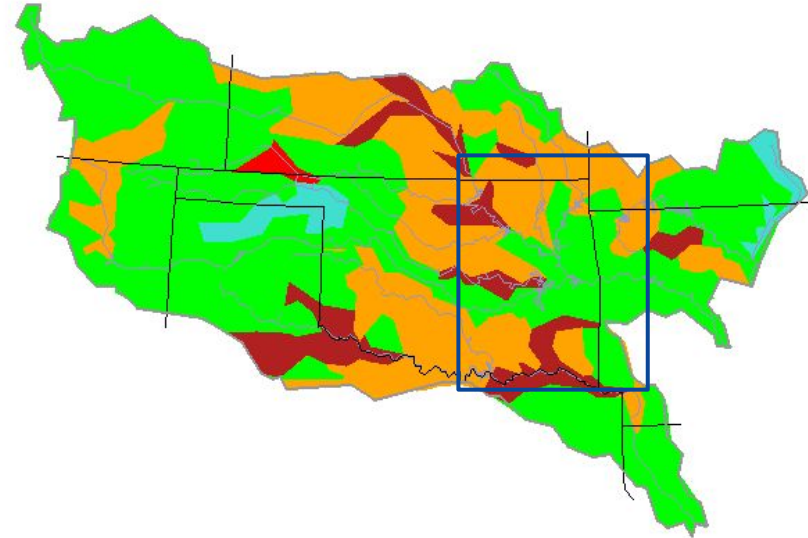




# Hydrologic Conditions and Impacts

- According to the USGS, the [7-day average streamflow](#) was below below normal across the upper Arkansas River, Verdigris River, and Neosho River basins in northeastern OK, the Kiamichi River and Red River basins in southeastern OK, and the White River basin in northwestern AR (image on the right).
- According to the USACE, the following reservoirs were more than 5% below the top of their conservation pools as of October 1, 2024:
  - Ft. Gibson Lake 36%
  - Wister Lake 58%
  - Hugo Lake 61%
  - Skiatook Lake 72%
  - Eufaula Lake 76%
  - Hulah Lake 81%
  - Keystone Lake 83%
  - Beaver Lake 83%
  - Copan Lake 85%
  - Birch Lake 85%
  - Kaw Lake 86%
  - Heyburn Lake 86%
  - Oologah Lake 90%
  - Sardis Lake 93%

Thursday, October 03, 2024



USGS

Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	No Data

Image Caption: USGS 7-day average streamflow HUC map valid October 3, 2024



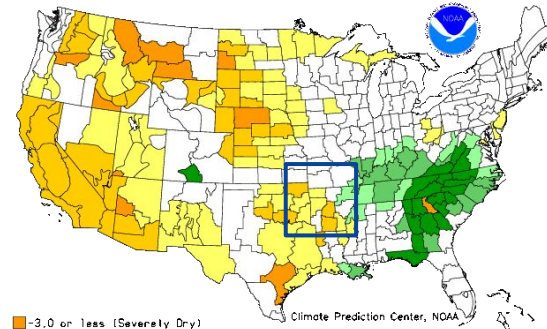


# Agricultural Impacts

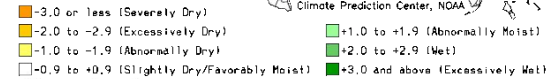
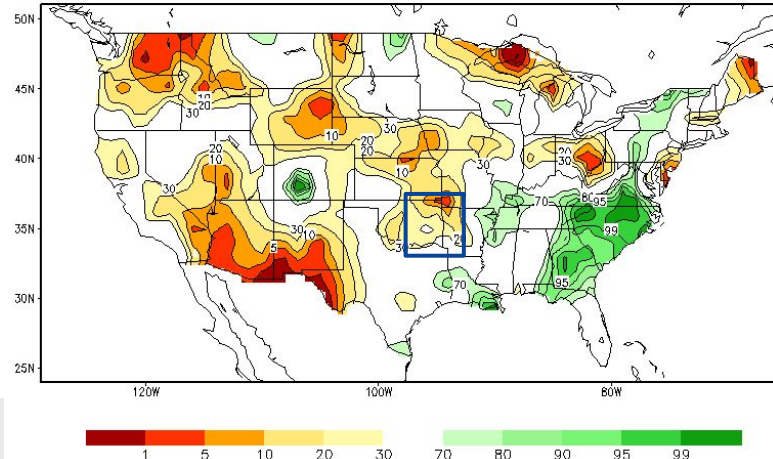
Links to the [OK Mesonet Soil Moisture](#) and Arkansas-Red Basin River Forecast Center [modeled zonal soil moisture](#).

- According to the CPC, soil moisture was below normal for most of eastern OK and northwestern AR, with a portion of far northeast OK and far northwest AR below the 10th percentile, as of Oct. 3, 2024 (left image). The CPC weekly Crop Moisture Index was abnormally to excessively dry in eastern OK and northwestern AR as of Sep. 28, 2024 (right image).
- According to the [OK Farm Report](#), producers are selling off cattle due to water and forage scarcity.
- According to the OK Climatological Survey, there are numerous reports of dry or nearly dry ponds across northeast OK. Cattle are getting stuck in the mud while attempting to find water. Cattle are being fed hay and protein, which normally does not happen until late December.

Crop Moisture Index by Division  
Weekly Value for Period Ending SEP 28, 2024  
Short Term Need vs. Available Water in a Shallow Soil Profile



Calculated Soil Moisture Ranking Percentile  
OCT 03, 2024





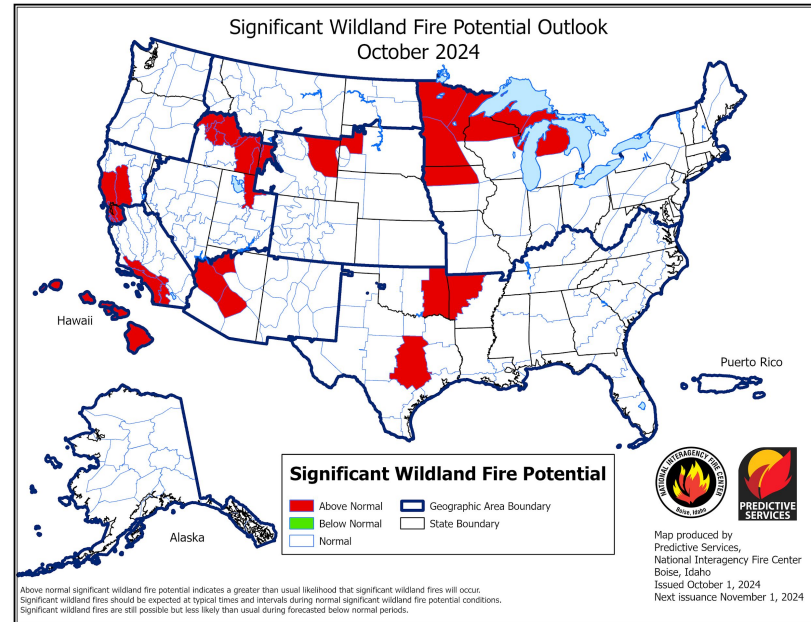
# Fire Hazard Impacts

Link to [Wildfire Potential Outlooks from the National Interagency Coordination Center](#).

- Burn Bans were in effect for Choctaw County in eastern OK and Benton, Carroll, Madison, Crawford, and Franklin Counties in northwest AR as of October 4, 2024.
- Enhanced fire spread potential will be based on daily weather conditions.
- There is above normal significant wildland fire potential for nearly all of eastern OK and northeast AR.

Latest OK Burn Ban map available [here](#).

Latest AR Burn Ban map available [here](#).



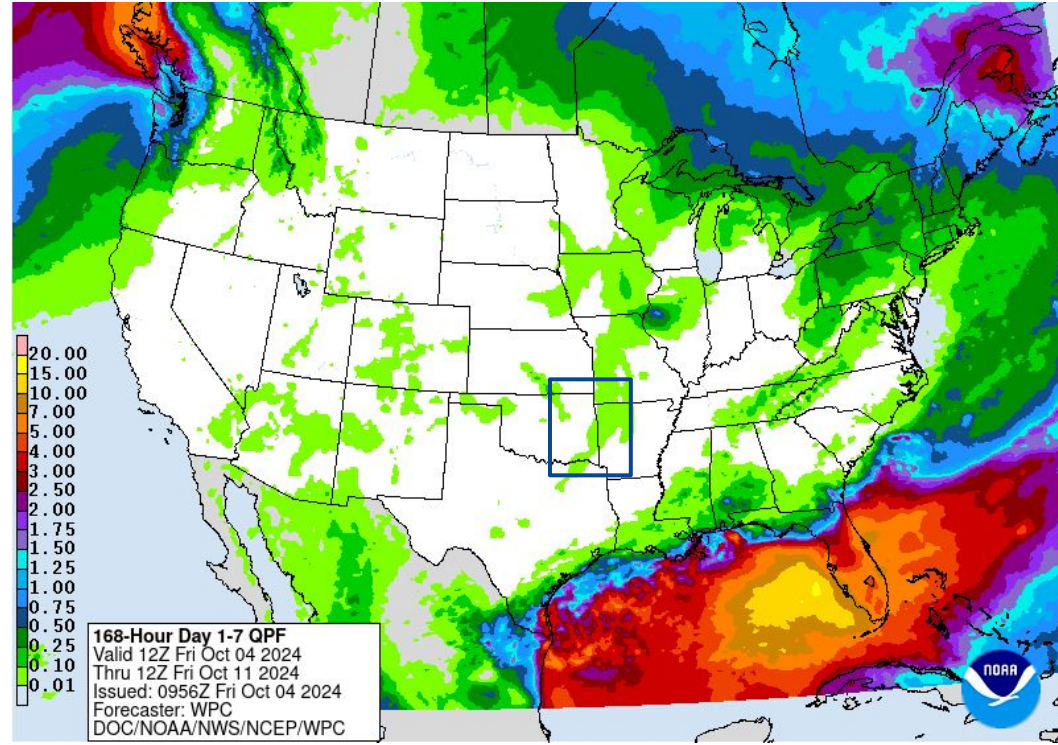




# Seven-Day Precipitation Forecast

Link to the latest [7-day Forecast for Eastern OK and northwest AR](#)

- Little to no rain is expected over the next 7 days across eastern OK and northwest AR.
- Above normal temperatures are also expected for the upcoming week.





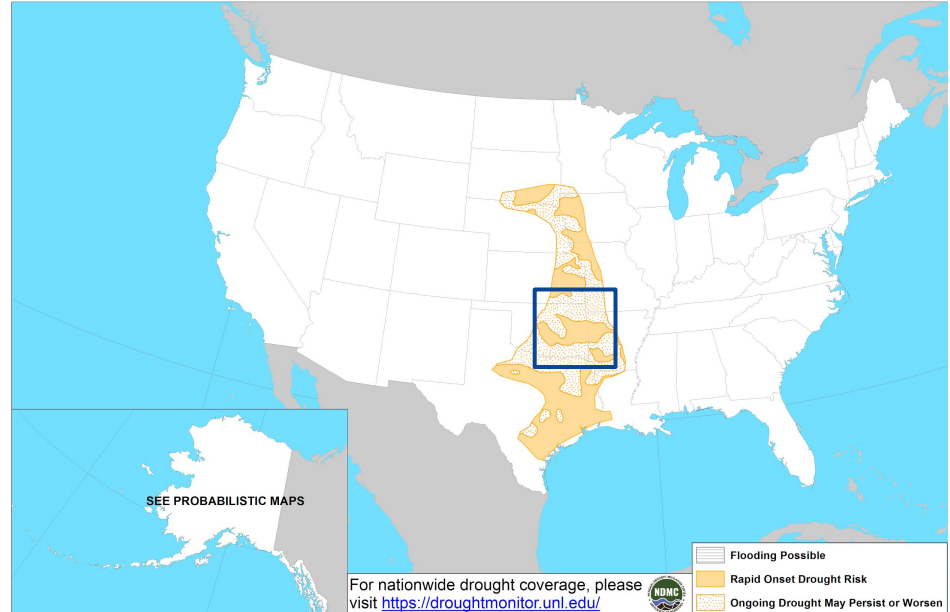
# Rapid Onset Drought Outlook

Links to the latest Climate Prediction Center 8 to 14 day [Temperature Outlook](#) and [Precipitation Outlook](#).

- Drought conditions have quickly deteriorated across eastern OK and northwest AR.
- There is a risk for continued rapid onset drought across eastern OK and northwest AR through mid-October due to a forecast for above normal temperatures and below normal rainfall over the next two weeks.



Day 8-14 U.S. Hazards Outlook  
Valid: 10/11/2024-10/17/2024



For nationwide drought coverage, please visit <https://droughtmonitor.unl.edu/>



Climate Prediction Center  
Made: 10/03/2024 3PM EDT

Follow us:   
[www.cpc.ncep.noaa.gov](http://www.cpc.ncep.noaa.gov)

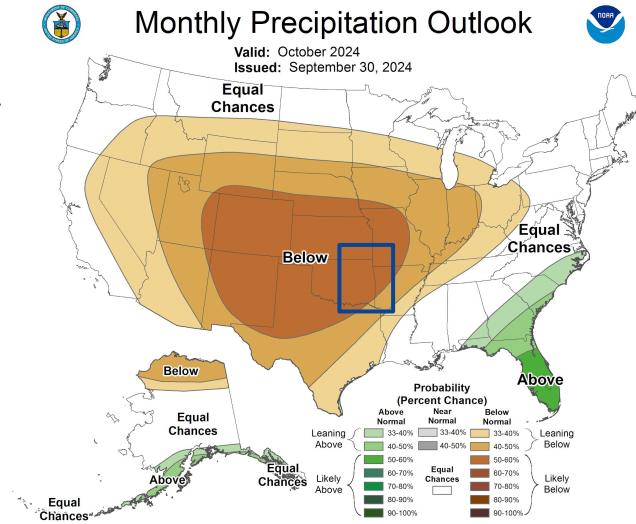
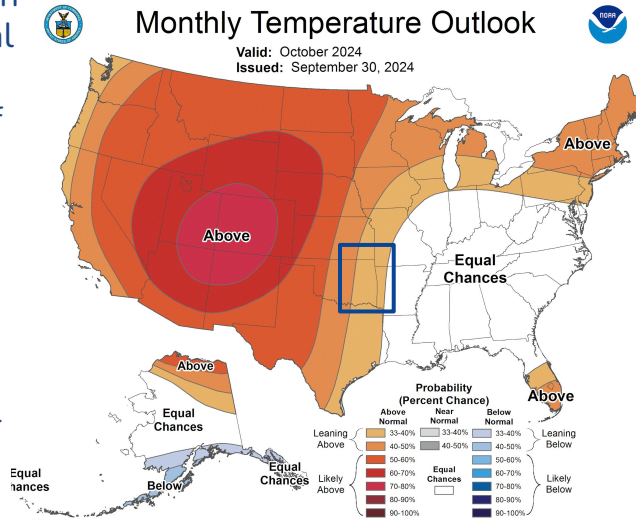




# Long-Range Outlooks

The latest monthly and seasonal outlooks can be found on the [Climate Prediction Center \(CPC\) homepage](#)

- According to the Climate Prediction Center (CPC), there is an enhanced chance for above normal temperatures and a likely chance for below median rainfall for all of eastern OK and northwestern AR for October 2024.
- In the longer term, the outlook for the 3-month period of Oct-Nov-Dec 2024 calls for an enhanced chance of above normal temperatures and below median precipitation for all of eastern OK and west central AR.



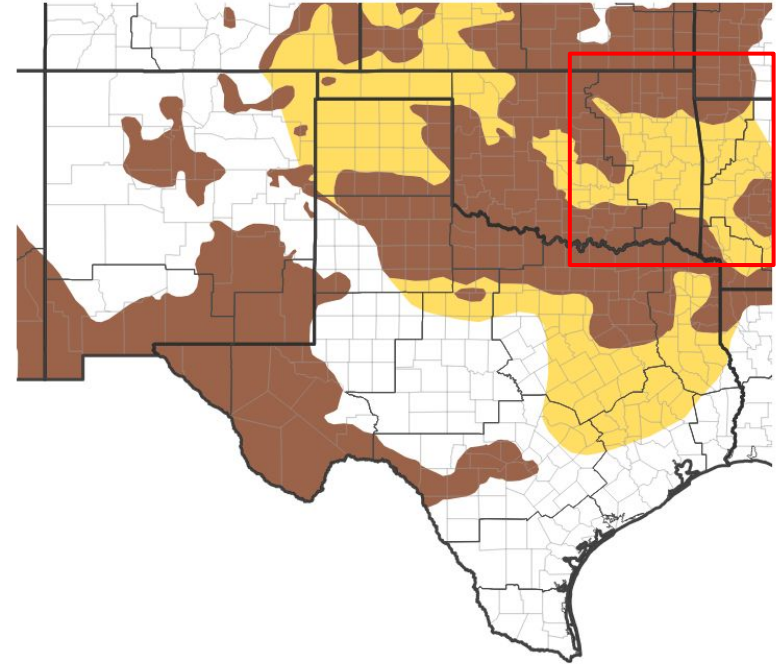


# Drought Outlook

The latest monthly and seasonal outlooks can be found on the [Climate Prediction Center \(CPC\) homepage](#)

- The CPC Seasonal Drought Outlook valid September 19 through December 31, 2024 indicates that drought conditions are expected to persist in the areas currently experiencing drought, and develop across the remainder of eastern OK and northwest AR.

Seasonal (3-Month) Drought Outlook for September 19, 2024–December 31, 2024



Drought Is Predicted To...



Source(s): Climate Prediction Center; image courtesy of Drought.gov

Last Updated: 09/19/24

Links to the latest:

[Climate Prediction Center Monthly Drought Outlook](#)

[Climate Prediction Center Seasonal Drought Outlook](#)



National Oceanic and Atmospheric Administration

U.S. Department of Commerce