



# Drought Information Statement for Middle Tennessee

**Valid September 26, 2024**

Issued By: NWS Nashville, TN

Contact information: [sr-ohx.dss@noaa.gov](mailto:sr-ohx.dss@noaa.gov)

- **Drought Information Statements are issued when D2 - Severe Drought is present in Middle Tennessee.**
- Please see all currently available products at <https://drought.gov/drought-information-statements>.





# U.S Drought Monitor

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

## U.S. Drought Monitor Nashville, TN WFO

**September 24, 2024**  
(Released Thursday, Sep. 26, 2024)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	99.89	75.20	21.12	0.00
<b>Last Week</b> 09-17-2024	0.00	100.00	98.36	64.26	5.41	0.00
<b>3 Months Ago</b> 06-25-2024	66.06	33.94	3.98	0.00	0.00	0.00
<b>Start of Calendar Year</b> 01-02-2024	0.00	100.00	100.00	96.17	67.40	1.76
<b>Start of Water Year</b> 09-26-2023	38.66	61.34	0.00	0.00	0.00	0.00
<b>One Year Ago</b> 09-26-2023	38.66	61.34	0.00	0.00	0.00	0.00

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

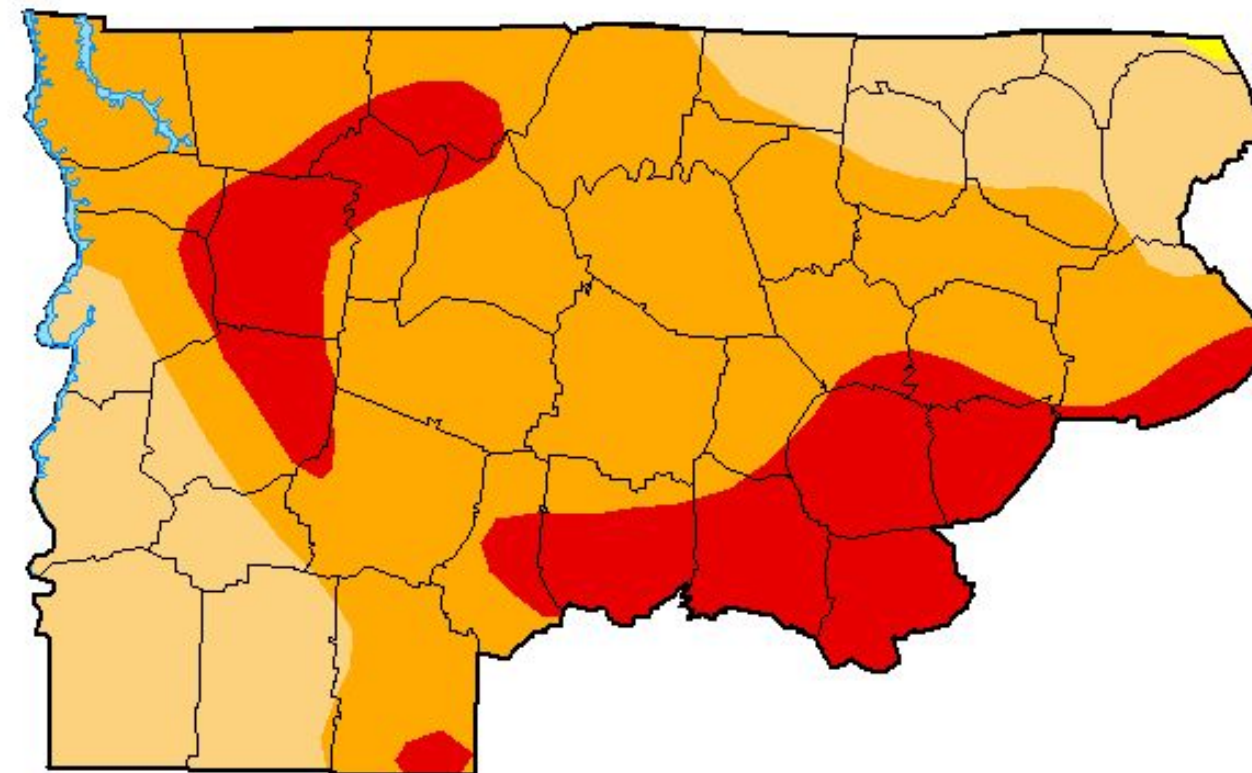
Author:

Brad Rippey  
U.S. Department of Agriculture



[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)

**National Weather Service  
Nashville, TN**



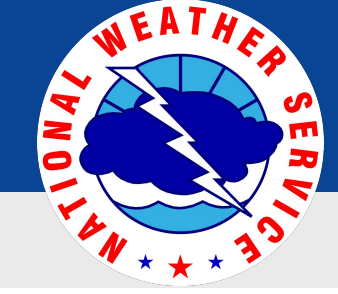
### Drought Intensity and Extent:

- **D4 Exceptional Drought:** No areas classified
- **D3 Extreme Drought:** Affecting areas of Middle Tennessee and the Cumberland Plateau
- **D2 Severe Drought:** Affecting large portions of Middle Tennessee
- **D1 Moderate Drought:** Affecting most remaining areas of Middle Tennessee
- **D0 Abnormally Dry:** A tiny portion of Pickett County

**Drought Information Statements are issued when D2 - Severe Drought or higher is present across Middle Tennessee.**



National Oceanic and Atmospheric Administration  
U.S. Department of Commerce



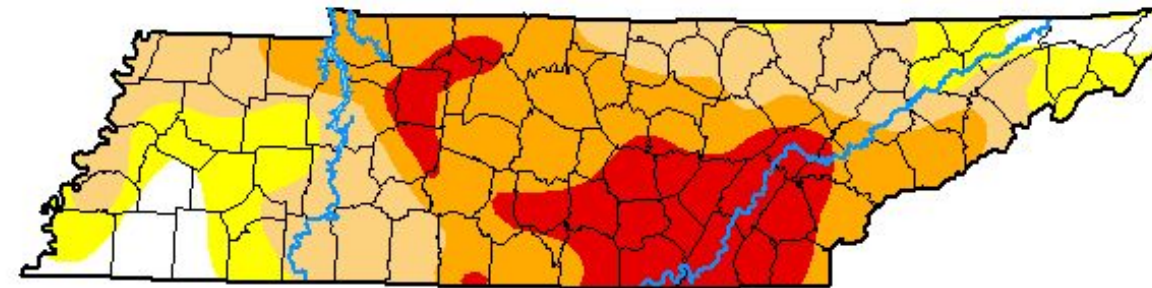
# U.S Drought Monitor

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

## Drought Intensity and Extent:

- **D4 Exceptional Drought:** No areas classified
- **D3 Extreme Drought:** Affecting a portion of Middle Tennessee, the Cumberland Plateau, and the Tennessee River Valley
- **D2 Severe Drought:** Affecting large portions of Middle and East Tennessee. A small sliver of West Tennessee is impacted as well
- **D1 Moderate Drought:** Portions of West Tennessee, and most of the remaining portions of Middle and East Tennessee
- **D0 Abnormally Dry:** Affecting areas of West and Northeast Tennessee

## U.S. Drought Monitor Tennessee



**September 24, 2024**  
(Released Thursday, Sep. 26, 2024)  
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	6.64	93.36	78.46	50.44	19.12	0.00
<b>Last Week</b> 09-17-2024	3.36	96.64	74.88	44.28	7.31	0.00
<b>3 Months Ago</b> 06-25-2024	60.58	39.42	2.40	0.00	0.00	0.00
<b>Start of Calendar Year</b> 01-02-2024	0.00	100.00	93.07	72.43	47.13	2.57
<b>Start of Water Year</b> 09-26-2023	48.22	51.78	2.31	0.00	0.00	0.00
<b>One Year Ago</b> 09-26-2023	48.22	51.78	2.31	0.00	0.00	0.00

### Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

### Author:

Brad Rippey  
U.S. Department of Agriculture



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National Oceanic and Atmospheric Administration  
U.S. Department of Commerce

National Weather Service  
Nashville, TN

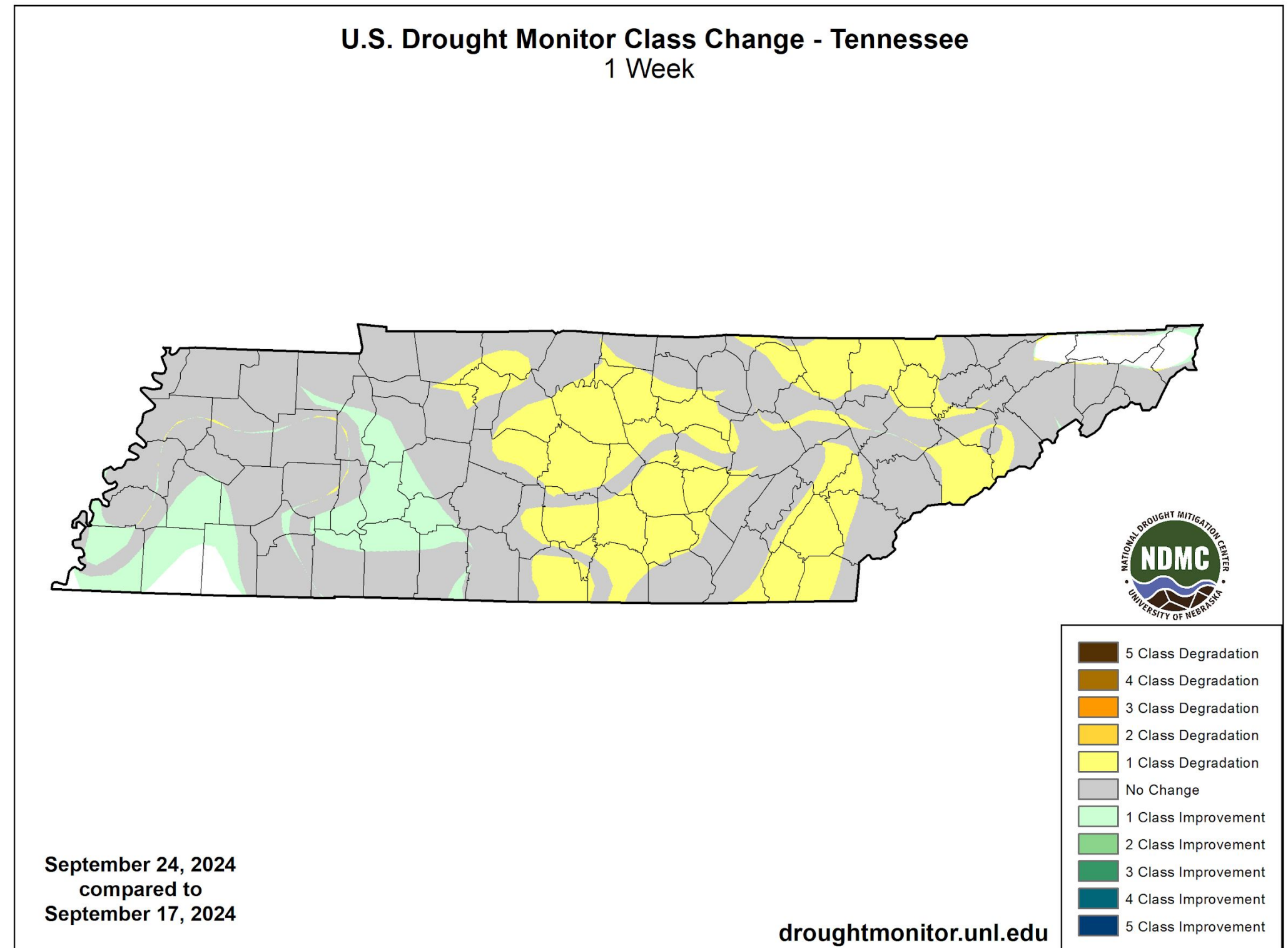


# Recent Change in Drought Intensity

Link to the [latest 1-week change map](#) for Tennessee

## One Week Drought Monitor Class Change

- **Drought Worsened:** Degradation occurred across large portions of Middle and East Tennessee once again this week
- **No Change:** A large portion of the state had the drought status maintained
- **Drought Improved:** Portions of West Tennessee, and a small part of Middle Tennessee close to the Tennessee River saw improved drought conditions

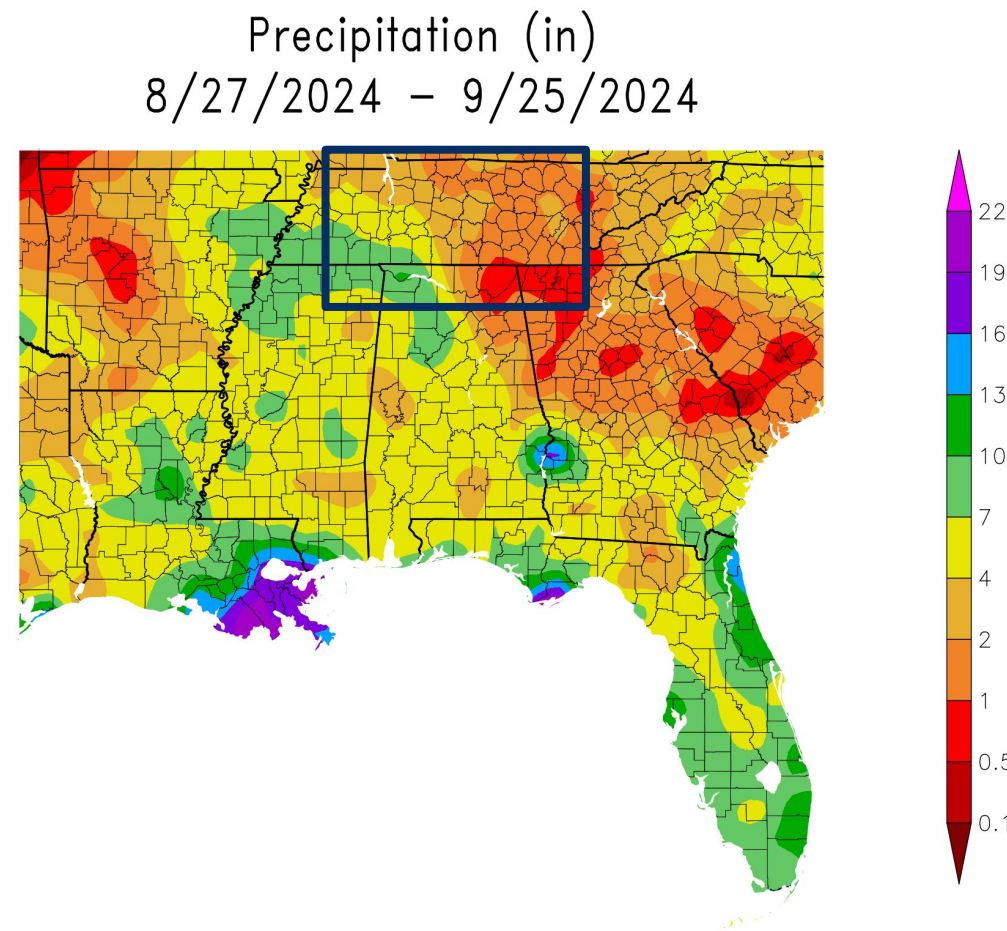




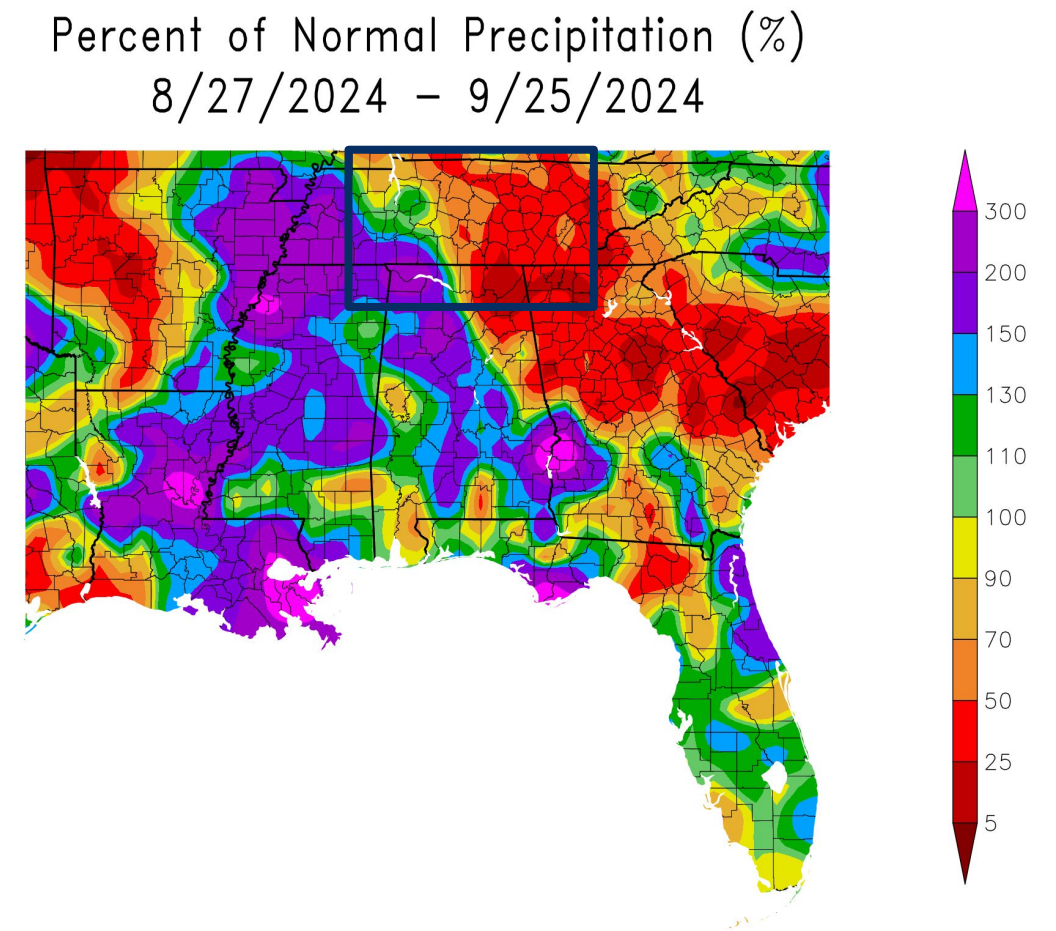
# Precipitation

Over the past 30 days from the [High Plains Regional Climate Center](#)

- The southwest portions of the mid-state have received between 4.0 and 10.0 inches of precipitation over the last 30 days, with the rest of the mid-state receiving 1.0 to 2.0 inches.
- Most of Middle Tennessee along and east of I-65 have received about 25-50% of normal precipitation. The southwest portions have received 100-200% of normal precipitation over the last 30 days.



Generated 9/26/2024 at HPRCC using provisional data.



NOAA Regional Climate Centers Generated 9/26/2024 at HPRCC using provisional data.

NOAA Regional Climate Centers





# Summary of Impacts

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

## Hydrologic Impacts

- Streamflows are normal to below normal across Middle Tennessee.

## Agricultural Impacts

- Lack of moisture this season has seriously impacted crop yields and livestock management. Reports of Fields used for hay are providing marginal feed at best and some farmers have chosen to chop corn fields for cattle. Water sources for cattle are drying up. Corn and soybean harvests continue. Cotton and Tobacco showing signs of stress.

## Fire Hazard Impacts

- Some counties/cities have implemented burn bans as a result of the ongoing dryness. A few small fires have been observed.

## Other Impacts

- There are no known impacts at this time

## Mitigation actions

- Please refer to your municipality and/or water provider for mitigation information. Some communities have implemented water restrictions and drought plans.



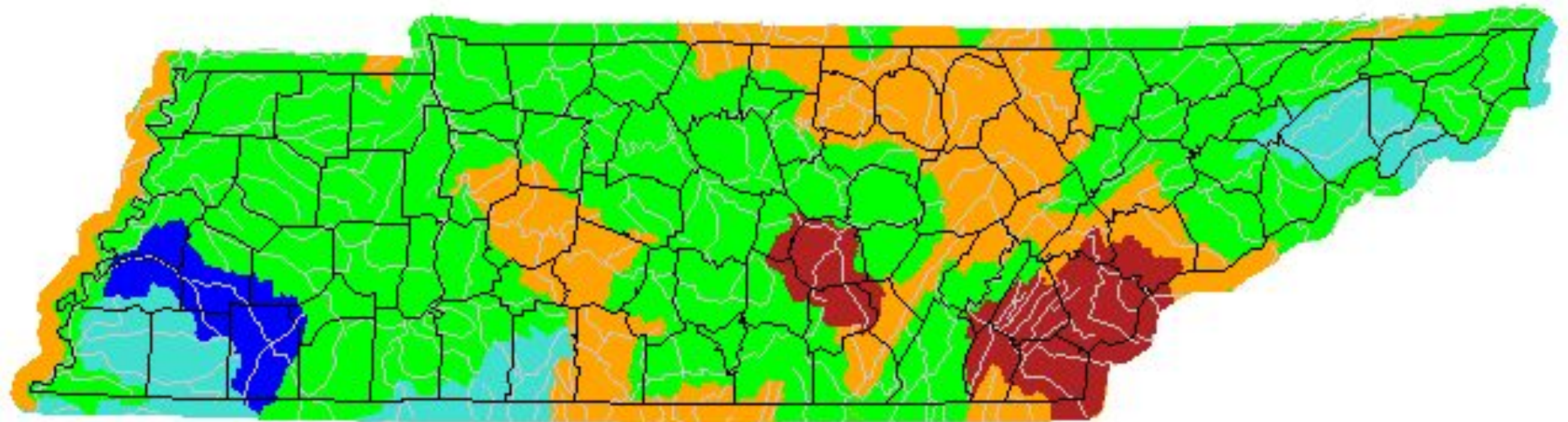


# Hydrologic Conditions and Impacts

## Main Takeaways:

- The west half of Tennessee is seeing normal to above normal streamflows (between the 25th and 90th percentile)
- The east half is experiencing below normal (10th to 24th percentile) or much below normal (less than 10th percentile) streamflows.

Tuesday, September 24, 2024



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



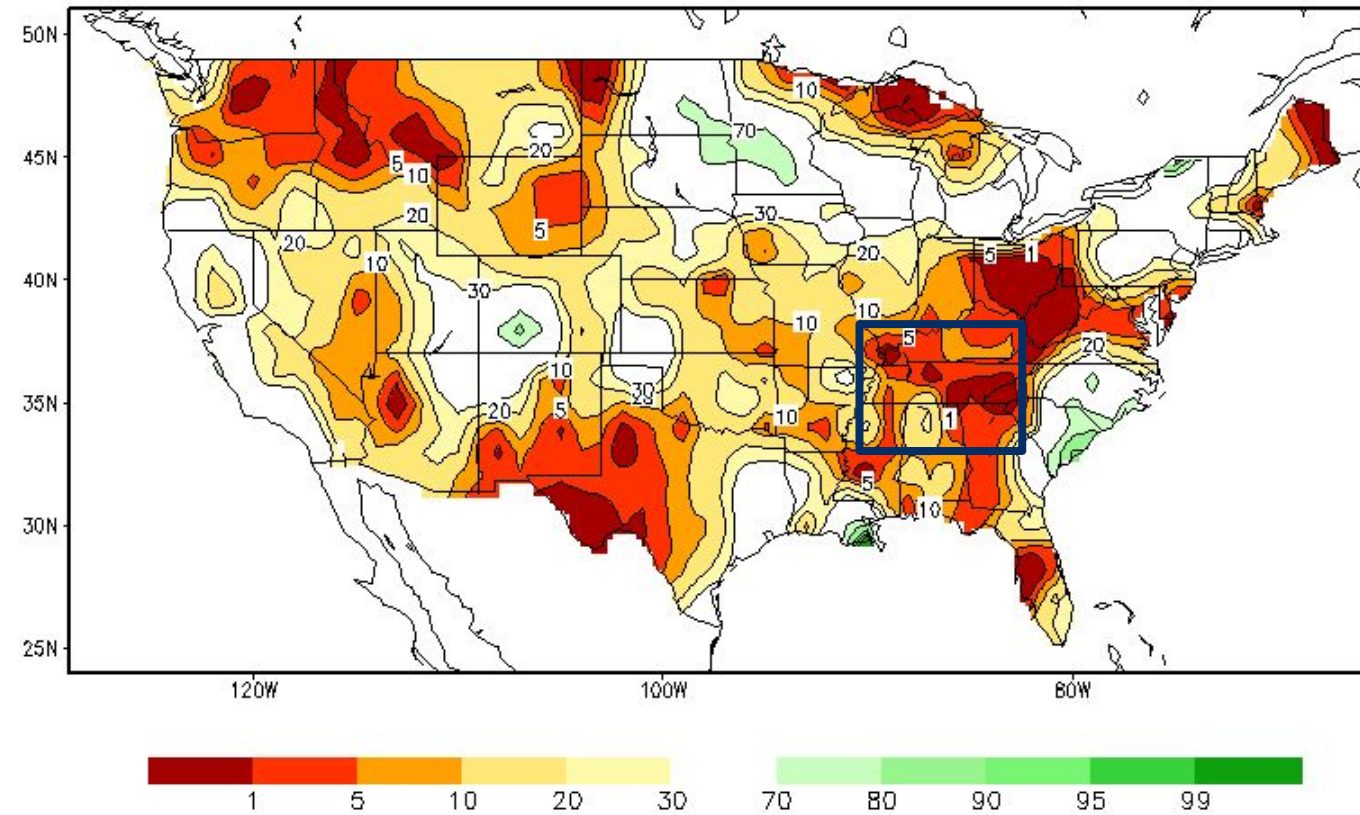


# Agricultural Impacts

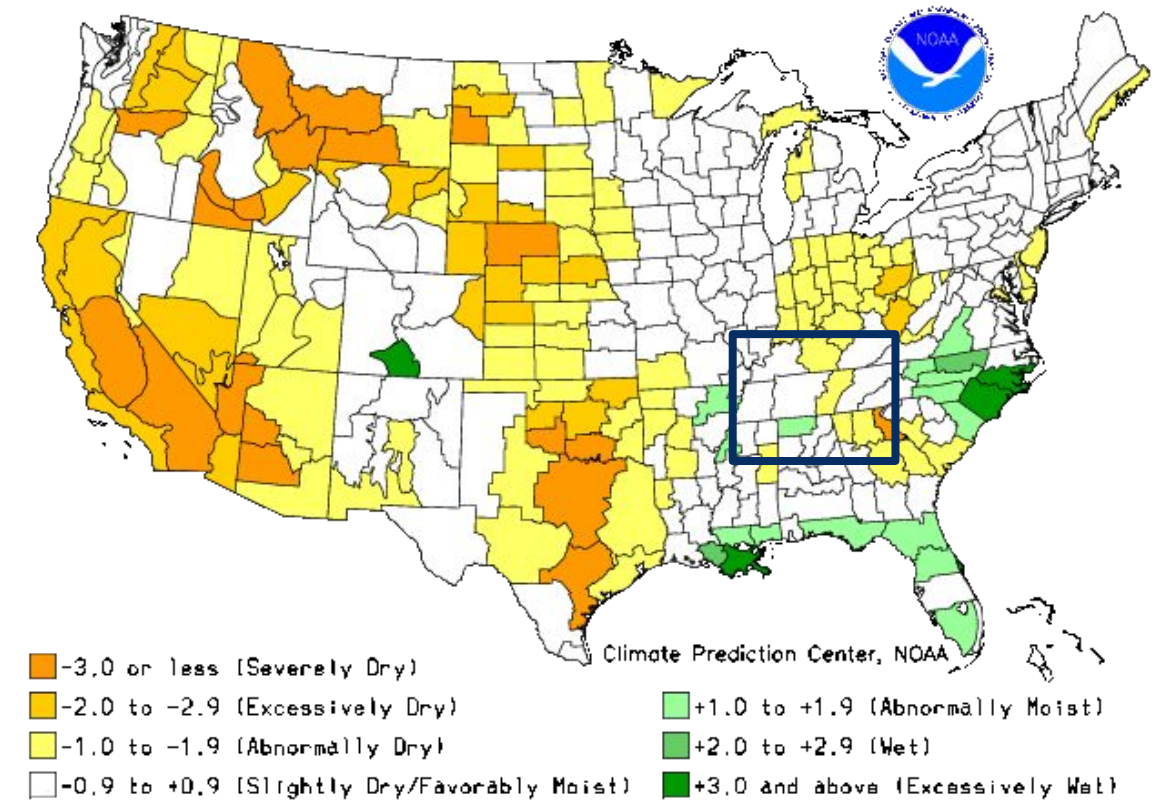
## Main Takeaways:

- Soil moisture has been decreasing due to the lack of rainfall across Middle Tennessee
- Most of the mid-state is in the 5th to 20th percentile, with a good portion in the 1st to 5th percentile

Calculated Soil Moisture Ranking Percentile  
SEP 24, 2024



Crop Moisture Index by Division  
Weekly Value for Period Ending SEP 21, 2024  
Short Term Need vs. Available Water in a Shallow Soil Profile



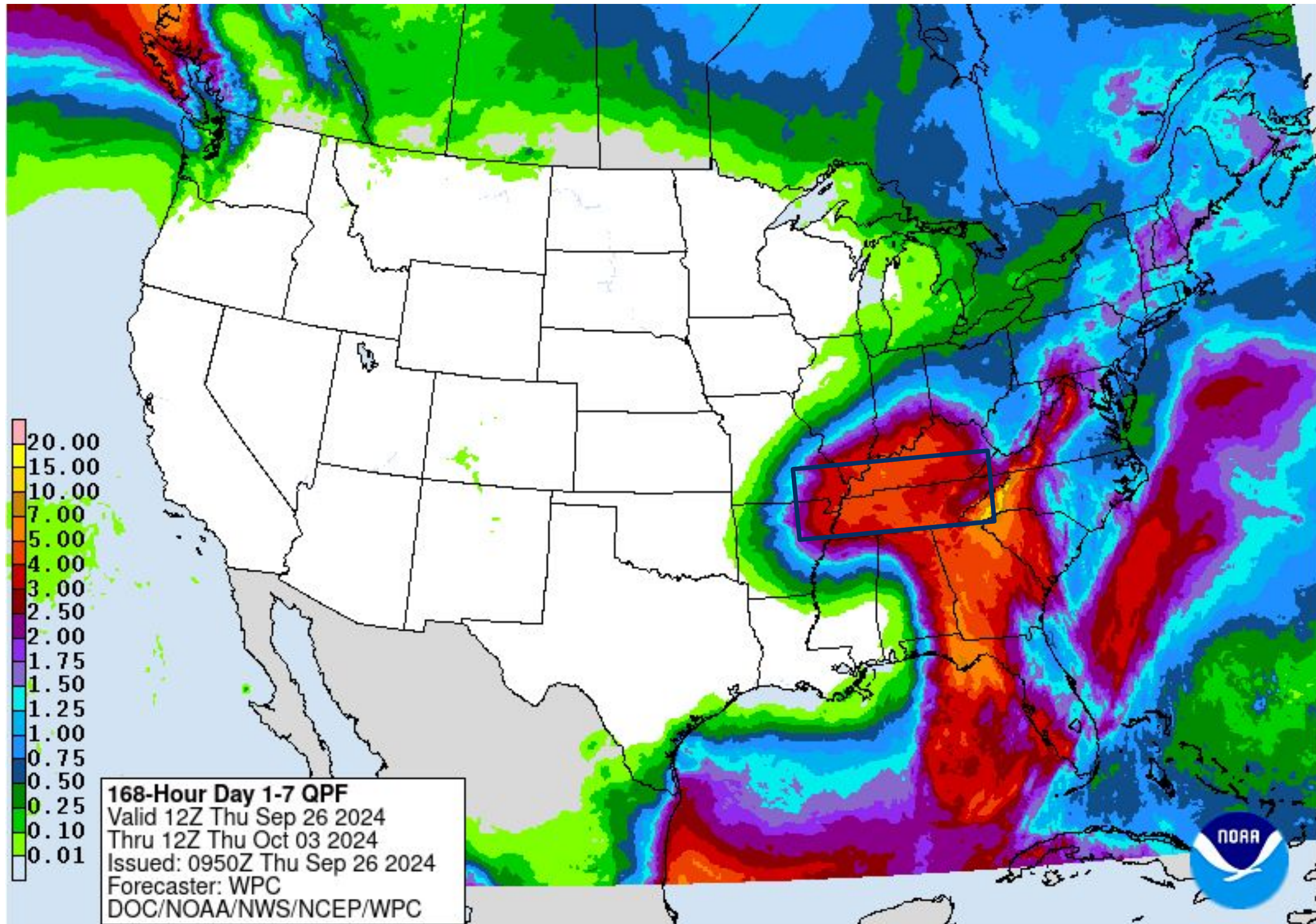




# Seven Day Precipitation Forecast

## Next 7 Days:

- Widespread beneficial rainfall is expected over the next 7 days due to the remnants of Hurricane Helene
- All of middle Tennessee is likely to receive at least 3 inches of rain
- Some locations may receive as much as 4 to 6 inches of rain





# 8-14 Day Outlook

## Temperature and Precipitation Outlook

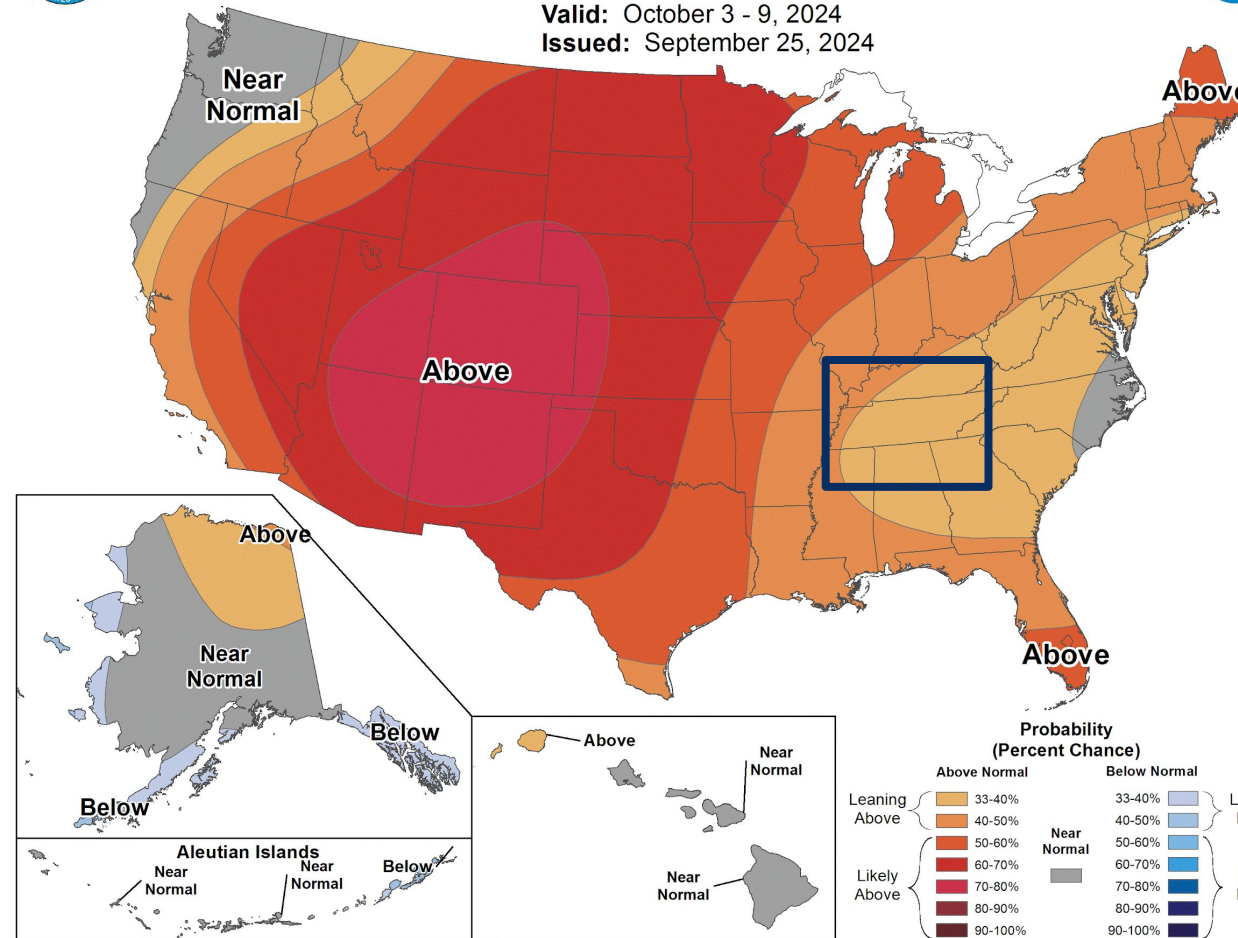
### Main Takeaways:

- There is a 33 to 40 percent chance of Above Normal Temperatures in the October 3 to October 9 time period
- There is a 33 to 50 percent chance of Below Normal Precipitation in the October 3 to October 9 time period



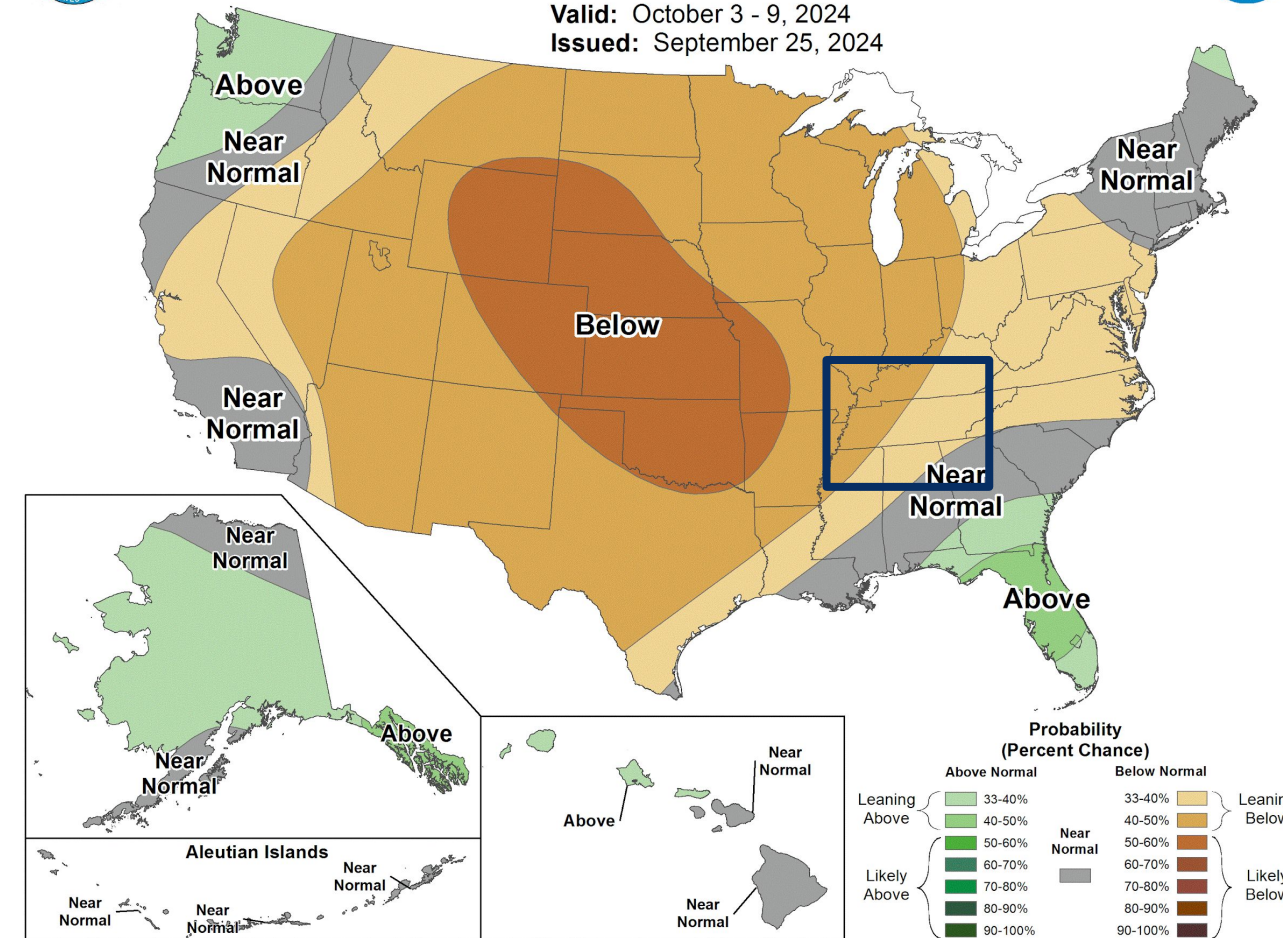
### 8-14 Day Temperature Outlook

Valid: October 3 - 9, 2024  
Issued: September 25, 2024



### 8-14 Day Precipitation Outlook

Valid: October 3 - 9, 2024  
Issued: September 25, 2024



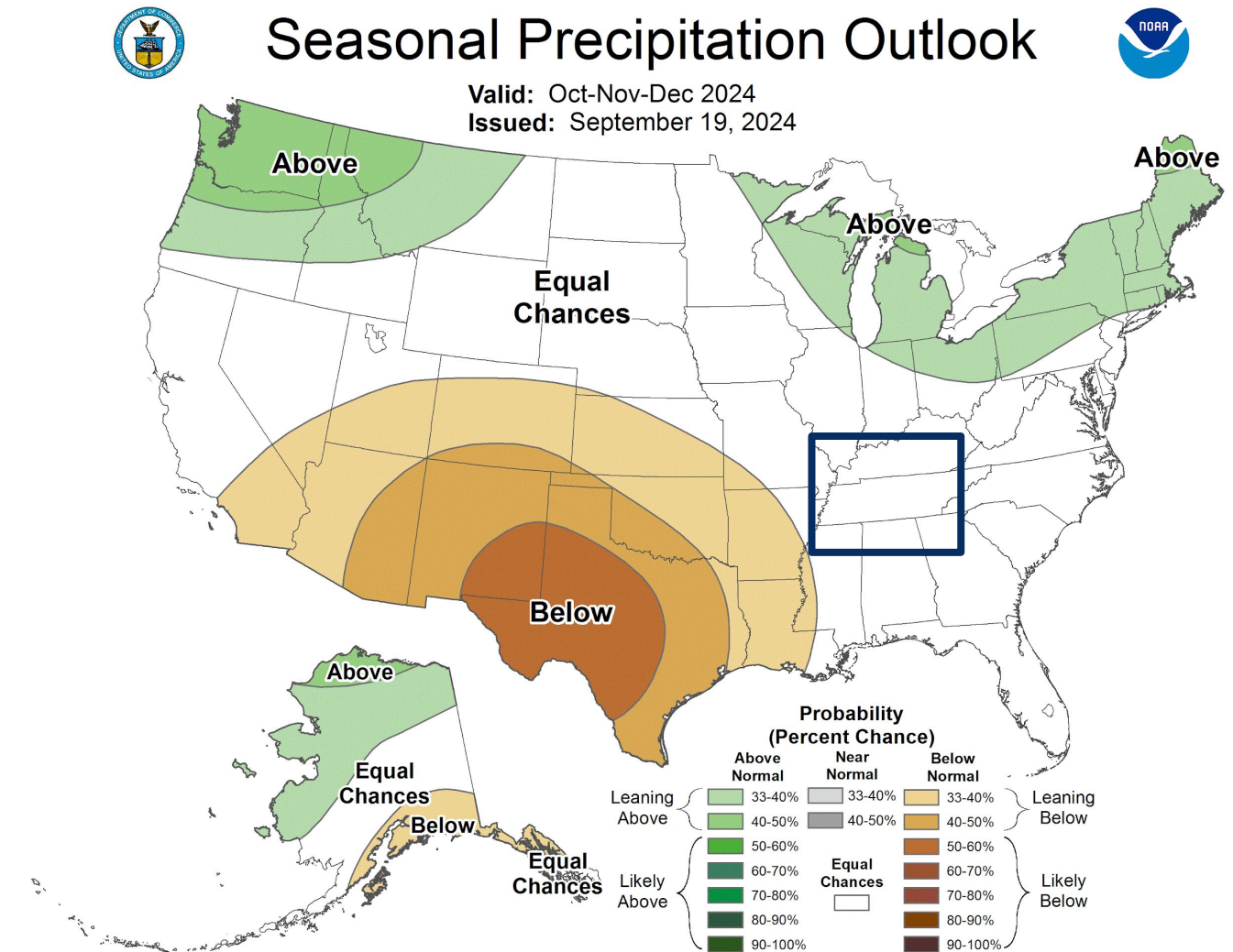
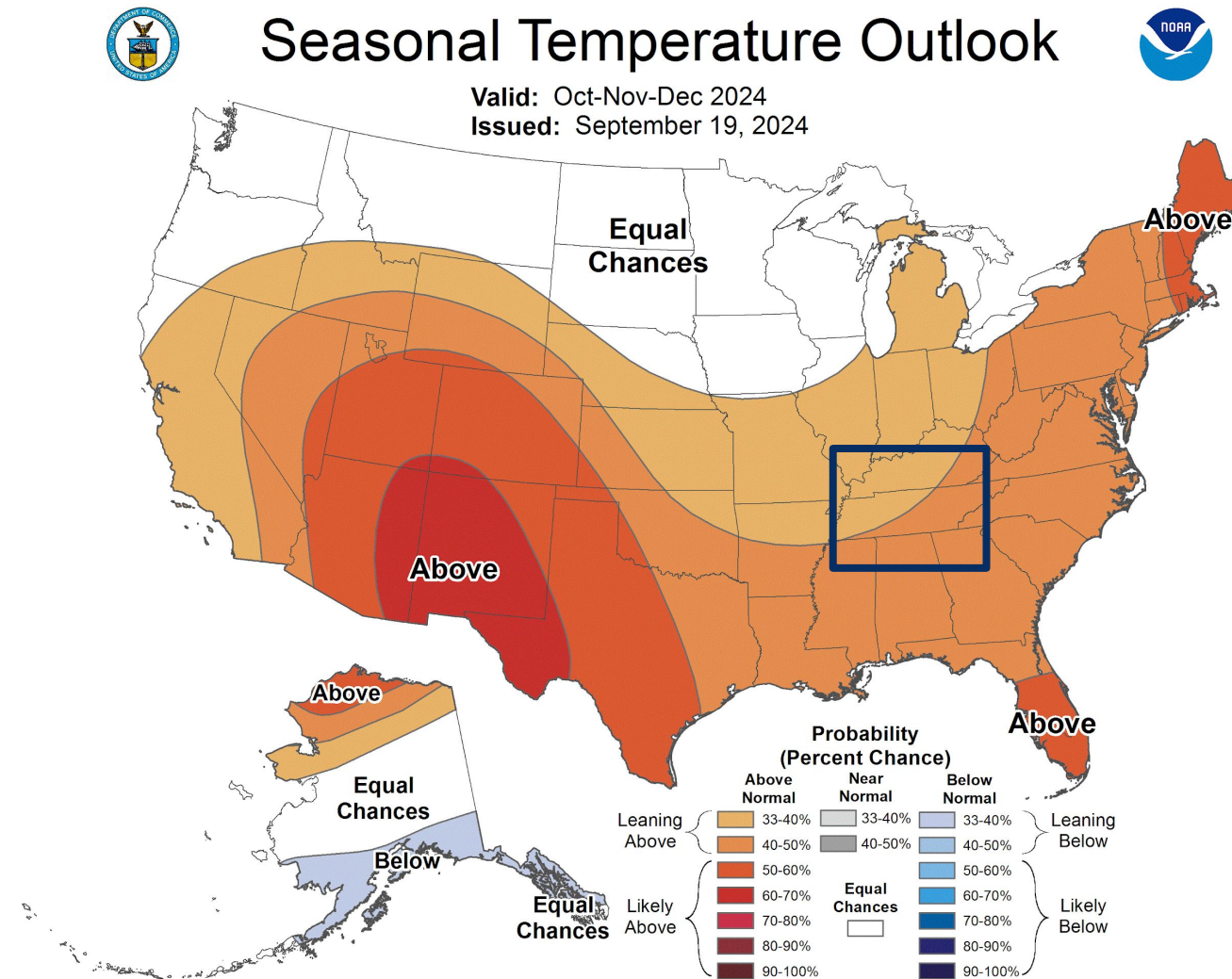


# Seasonal Outlook

## Seasonal Temperature and Precipitation Outlook

### Main Takeaways:

- There is a higher probability (33-50% chance) for above normal temperatures during Oct-Nov-Dec for Middle Tennessee
- There are equal chances for above, below, or normal precipitation during Oct-Nov-Dec for Middle Tennessee





# Drought Outlook

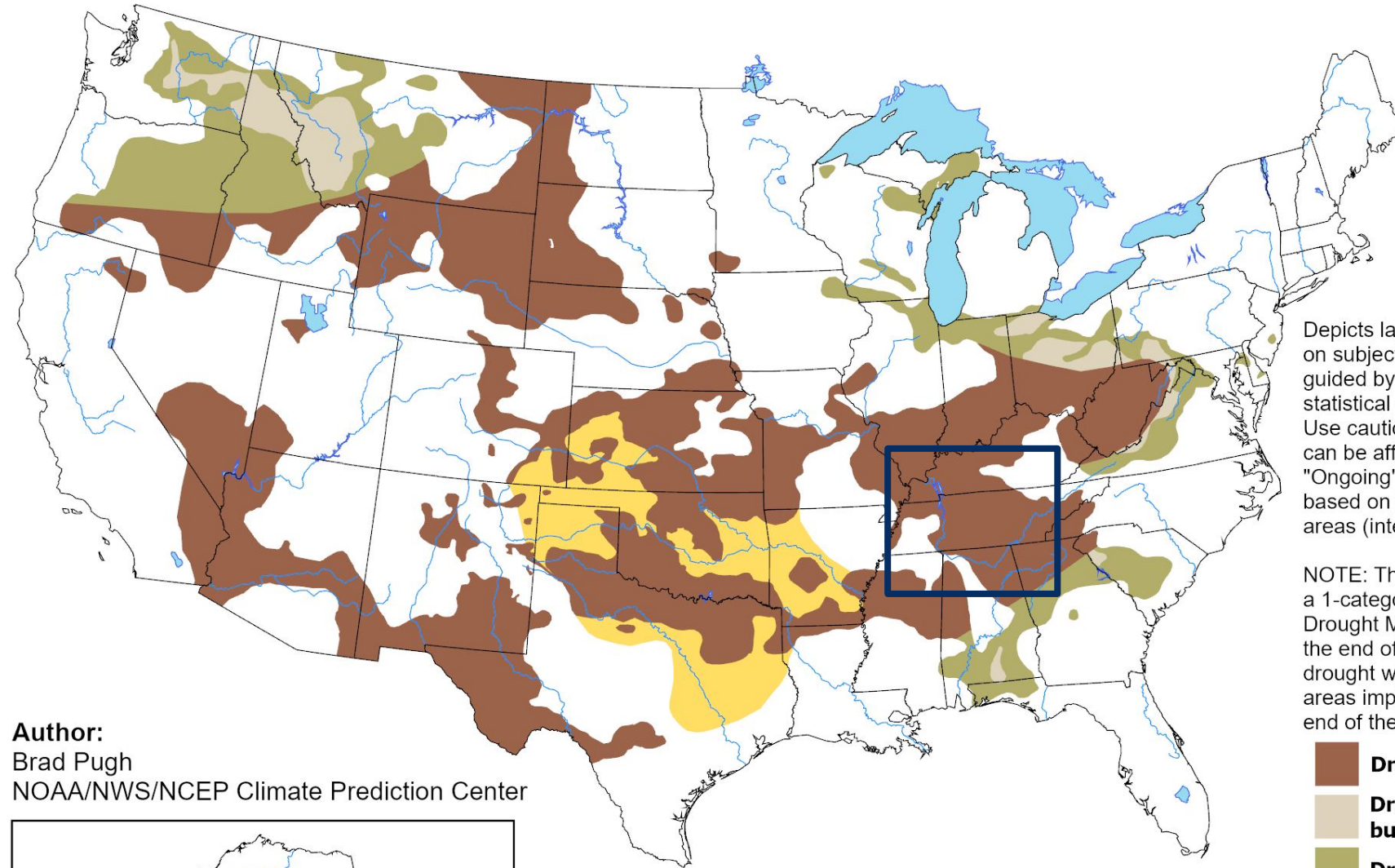
The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

## Main Takeaways:

- Drought conditions are expected to persist across most of Middle Tennessee in the short-term (through this Fall)
- However, drought is expected to gradually improve later this fall and through the winter months

## U.S. Seasonal Drought Outlook Drought Tendency During the Valid Period

Valid for September 19 - December 31, 2024  
Released September 19, 2024

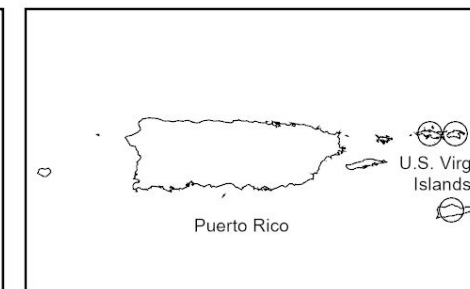
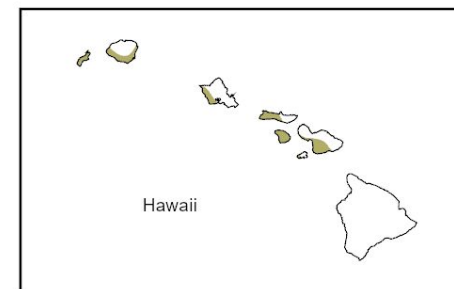
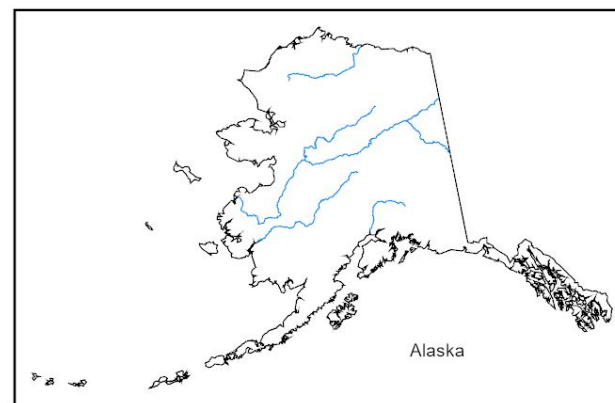


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

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

