



Drought Information Statement for Middle Tennessee

Valid September 19, 2024

Issued By: NWS Nashville, TN

Contact information: 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 17, 2024
(Released Thursday, Sep. 19, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	98.36	64.26	5.41	0.00
Last Week 09-10-2024	0.46	99.54	97.40	51.86	16.37	0.00
3 Months Ago 06-18-2024	86.31	13.69	0.00	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	0.00	100.00	100.00	96.17	67.40	1.76
Start of Water Year 09-26-2023	38.66	61.34	0.00	0.00	0.00	0.00
One Year Ago 09-19-2023	90.89	9.11	0.00	0.00	0.00	0.00

Intensity:

None	D0 Abnormally Dry	D2 Severe Drought	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>

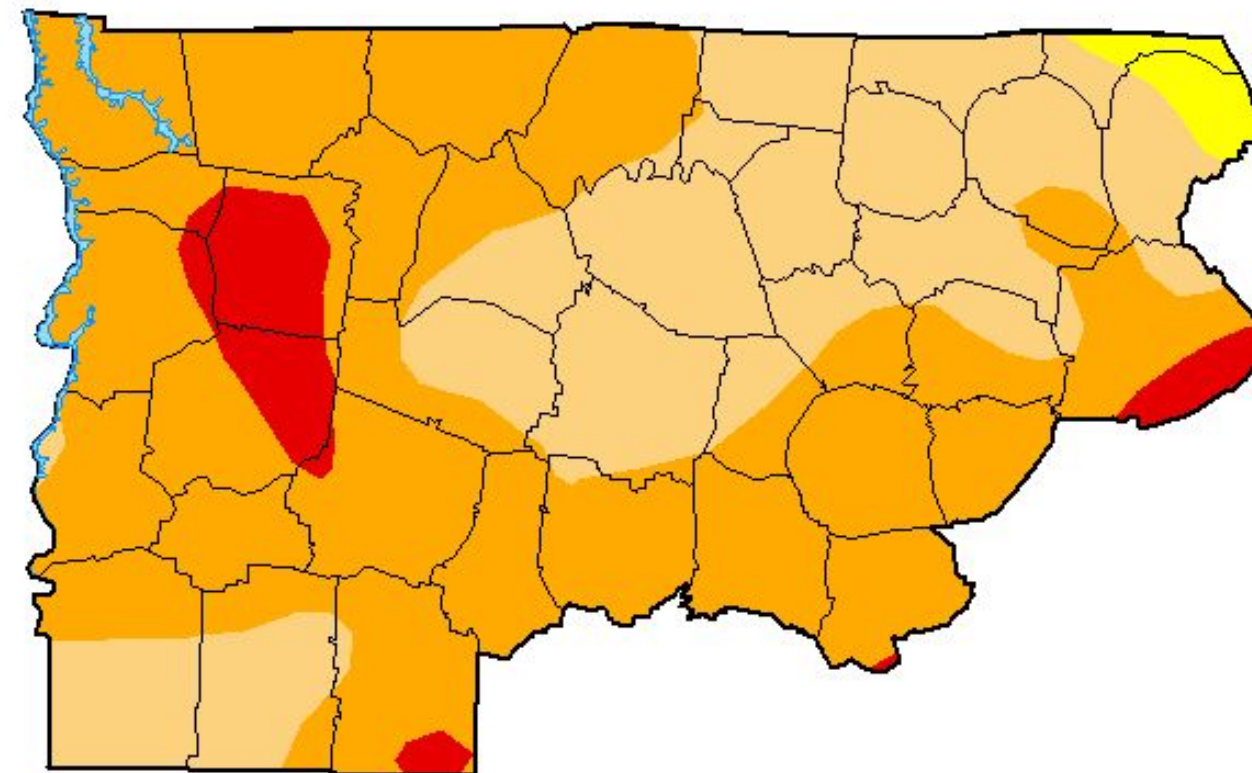
Author:

Brad Rippey
U.S. Department of Agriculture



droughtmonitor.unl.edu

**National Weather Service
Nashville, TN**



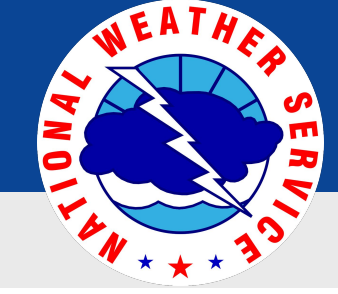
Drought Intensity and Extent:

- **D4 Exceptional Drought:** No areas classified
- **D3 Extreme Drought:** Affecting areas of Middle Tennessee
- **D2 Severe Drought:** Affecting portions of west Middle Tennessee, as well as the Cumberland Plateau
- **D1 Moderate Drought:** Affecting most remaining areas of Middle Tennessee
- **D0 Abnormally Dry:** Affecting a small portion of Pickett and Fentress Counties

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



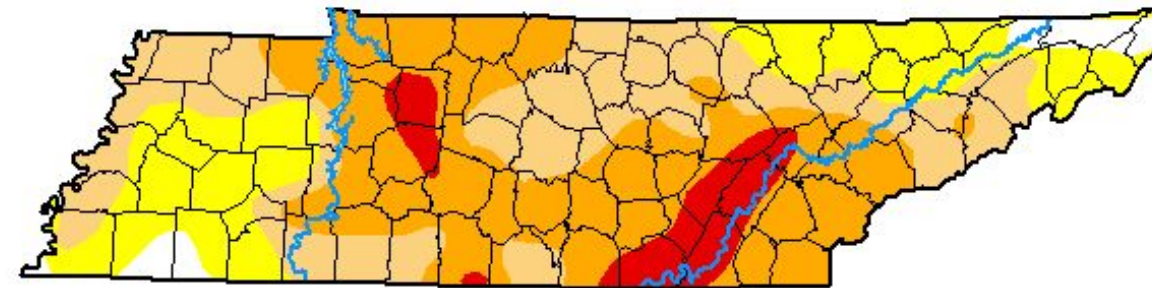
U.S Drought Monitor

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, and the Tennessee River valley between Chattanooga and Knoxville
- **D2 Severe Drought:** Affecting large portions of Middle and East Tennessee
- **D1 Moderate Drought:** Portions of West Tennessee, and most of Middle, and East Tennessee
- **D0 Abnormally Dry:** Affecting areas of West and Northeast Tennessee

U.S. Drought Monitor Tennessee



September 17, 2024
(Released Thursday, Sep. 19, 2024)
Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	3.36	96.64	74.88	44.28	7.31	0.00
Last Week 09-10-2024	6.54	93.46	85.54	38.28	7.26	0.00
3 Months Ago 06-18-2024	92.21	7.79	0.00	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	0.00	100.00	93.07	72.43	47.13	2.57
Start of Water Year 09-26-2023	48.22	51.78	2.31	0.00	0.00	0.00
One Year Ago 09-19-2023	90.64	9.36	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>

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

National Weather Service
Nashville, TN

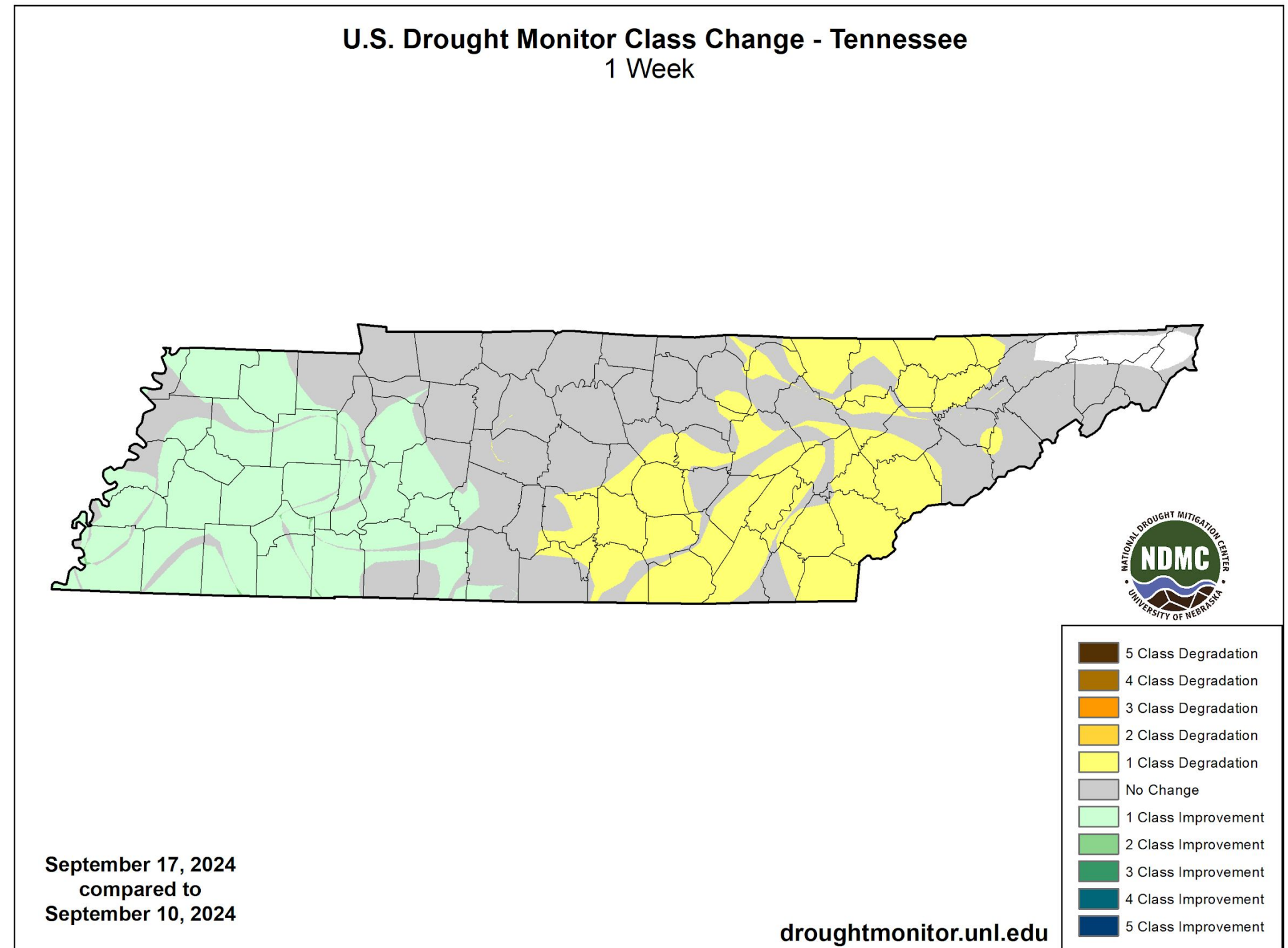


Recent Change in Drought Intensity

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

One Week Drought Monitor Class Change

- **Drought Worsened:** Degradation occurred across the east half of Tennessee
- **No Change:** Most of Middle Tennessee and portions of East Tennessee saw no change in the current drought status
- **Drought Improved:** Most of West and portions of Middle Tennessee saw improvement



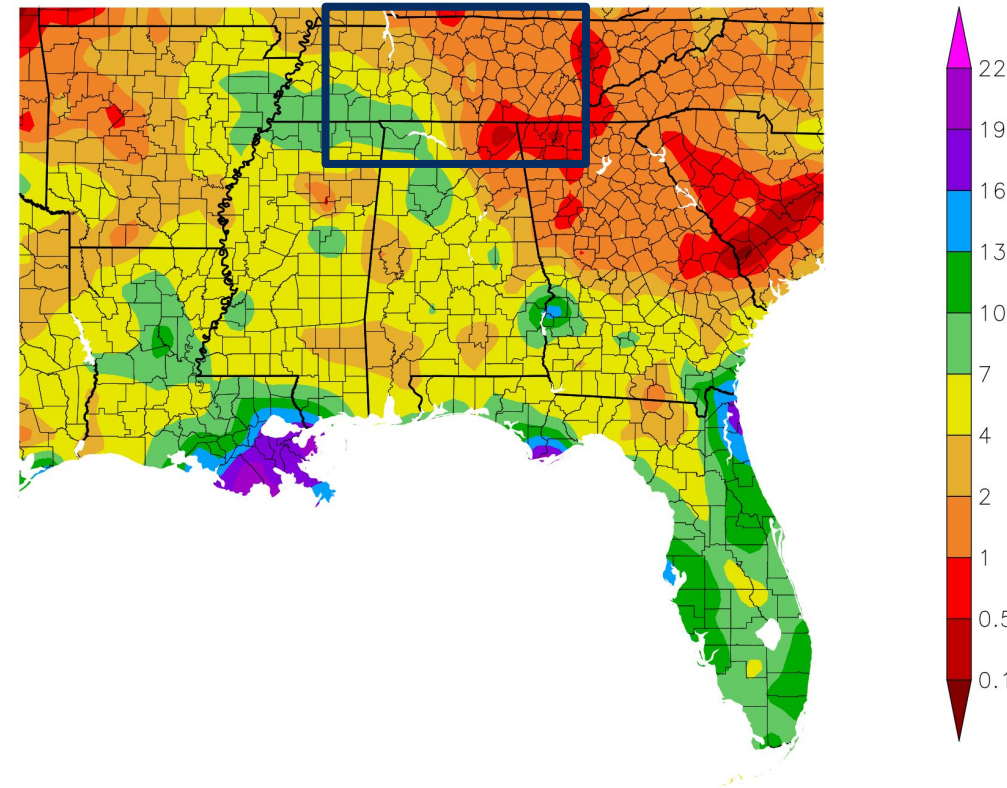


Precipitation

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

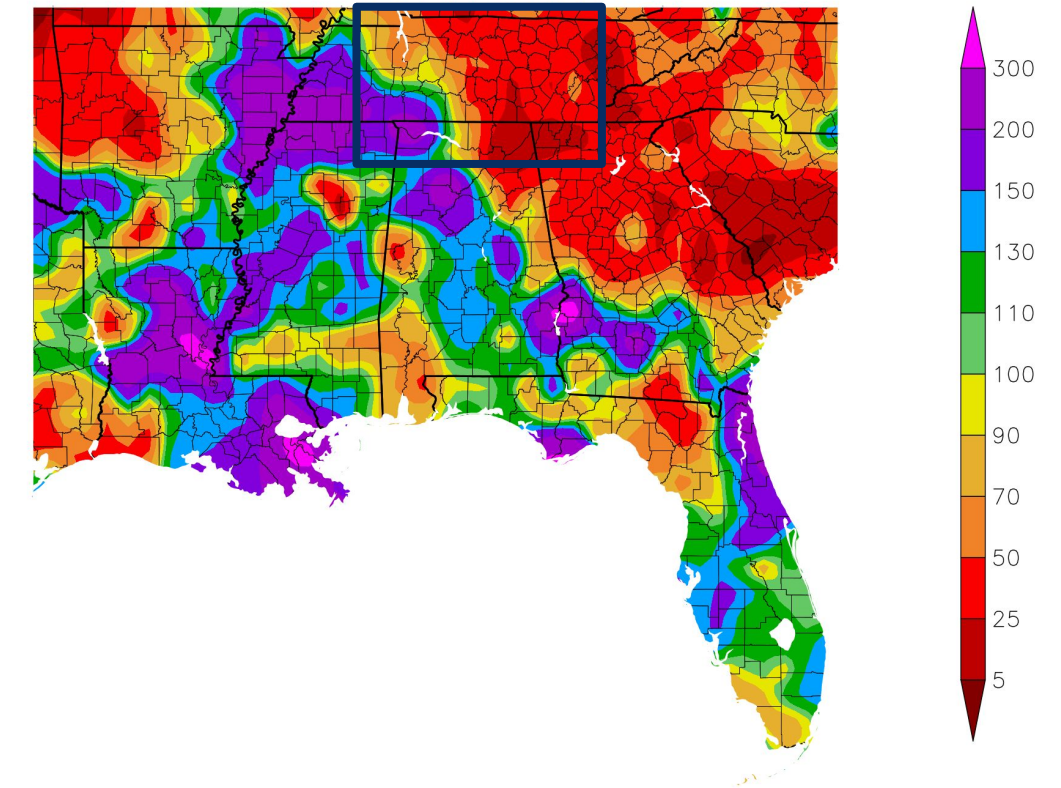
- The southwest portions of the mid-state have received between 4.0 and 10.0 inches of precipitation over the last 30 days, with the rest of the mid-state receiving 1.0 to 2.0 inches.
- Most of Middle Tennessee have received about 25-50% of normal precipitation. The southwest portions have received 100-200%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

Precipitation (in)
8/19/2024 - 9/17/2024



Generated 9/18/2024 at HPRCC using provisional data.

Percent of Normal Precipitation (%)
8/19/2024 - 9/17/2024



NOAA Regional Climate Centers Generated 9/18/2024 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

- Reports of diminished crop yields and fields used for hay are providing marginal feed at best. Water sources for cattle are drying up. Corn and soybean harvests have begun, with early yield estimates coming in below average. 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 restriction plans.



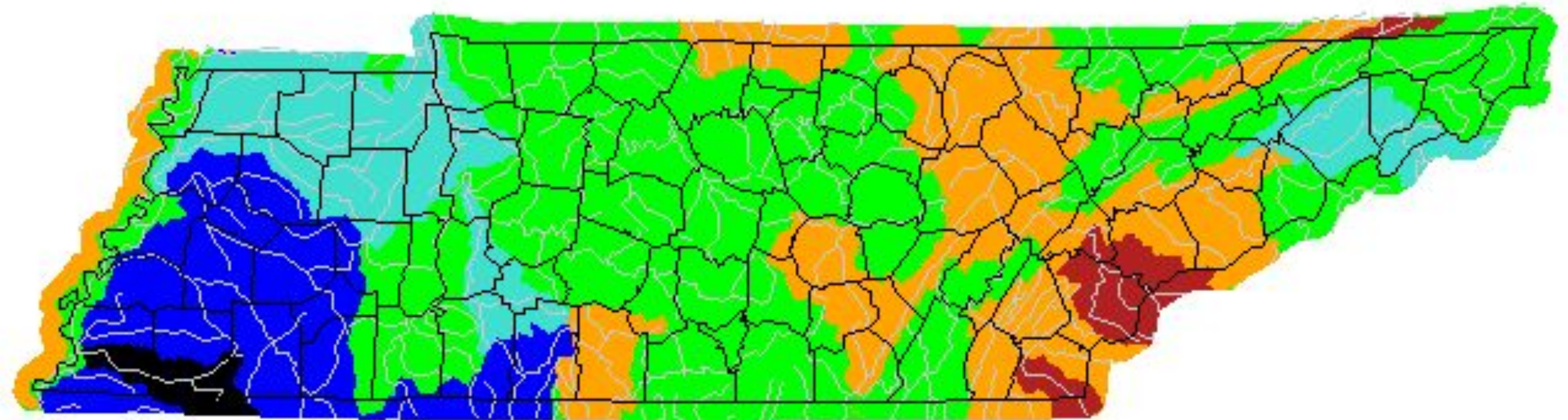


Hydrologic Conditions and Impacts

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.

Wednesday, September 18, 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		



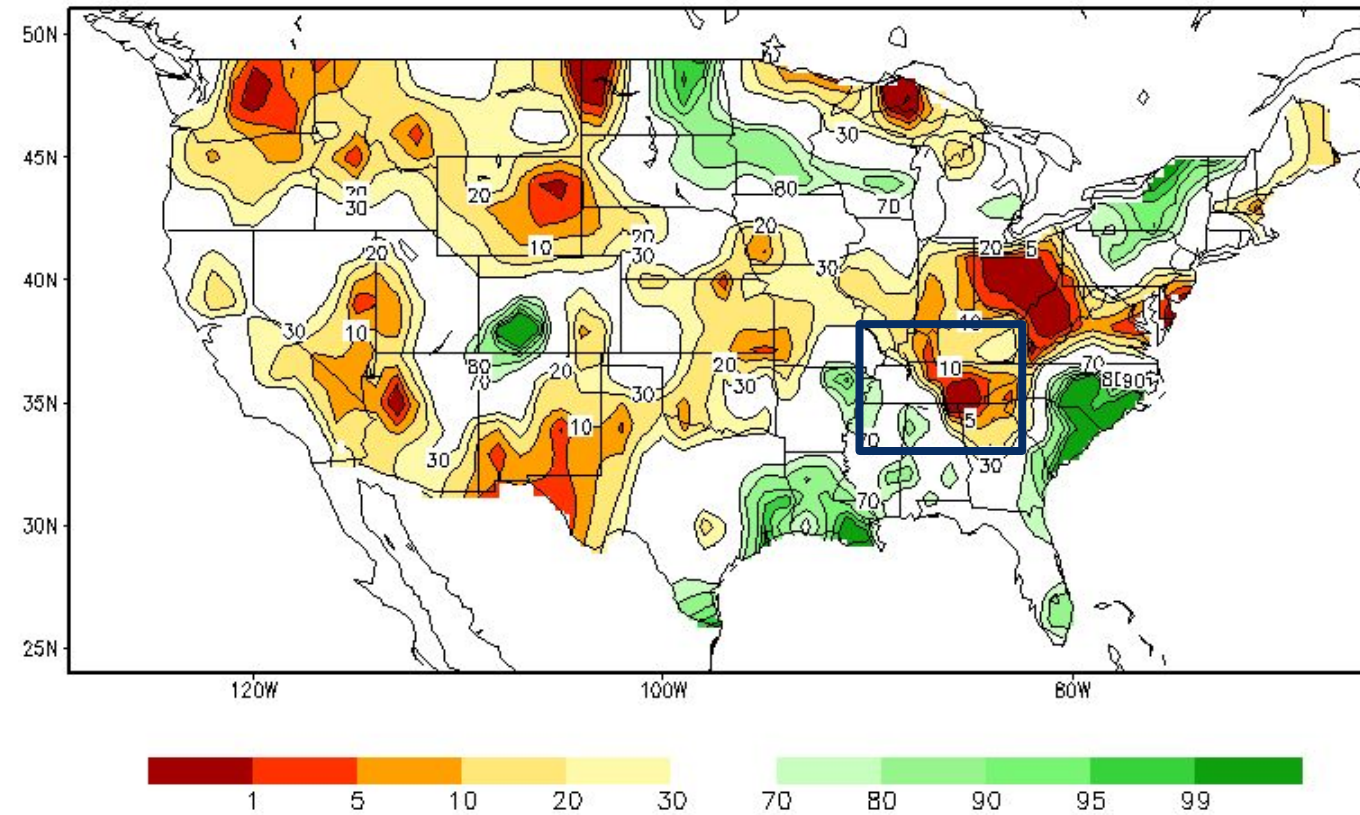


Agricultural Impacts

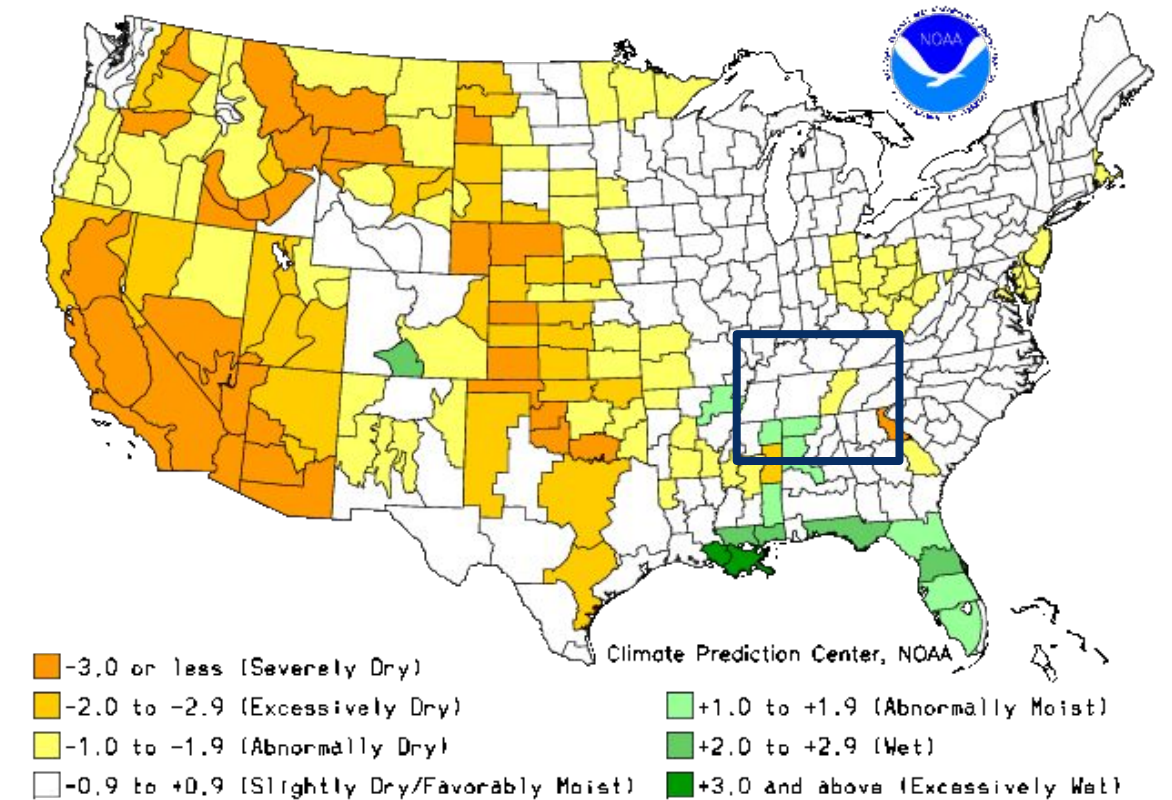
Main Takeaways:

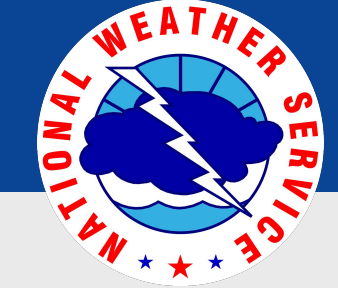
- Soil moisture has been decreasing due to the lack of rainfall across Middle Tennessee
- Most of the mid-state is in the 5th to 20th percentile, with a good portion in the 1st to 5th percentile

Calculated Soil Moisture Ranking Percentile
SEP 18, 2024



Crop Moisture Index by Division
Weekly Value for Period Ending SEP 14, 2024
Short Term Need vs. Available Water in a Shallow Soil Profile

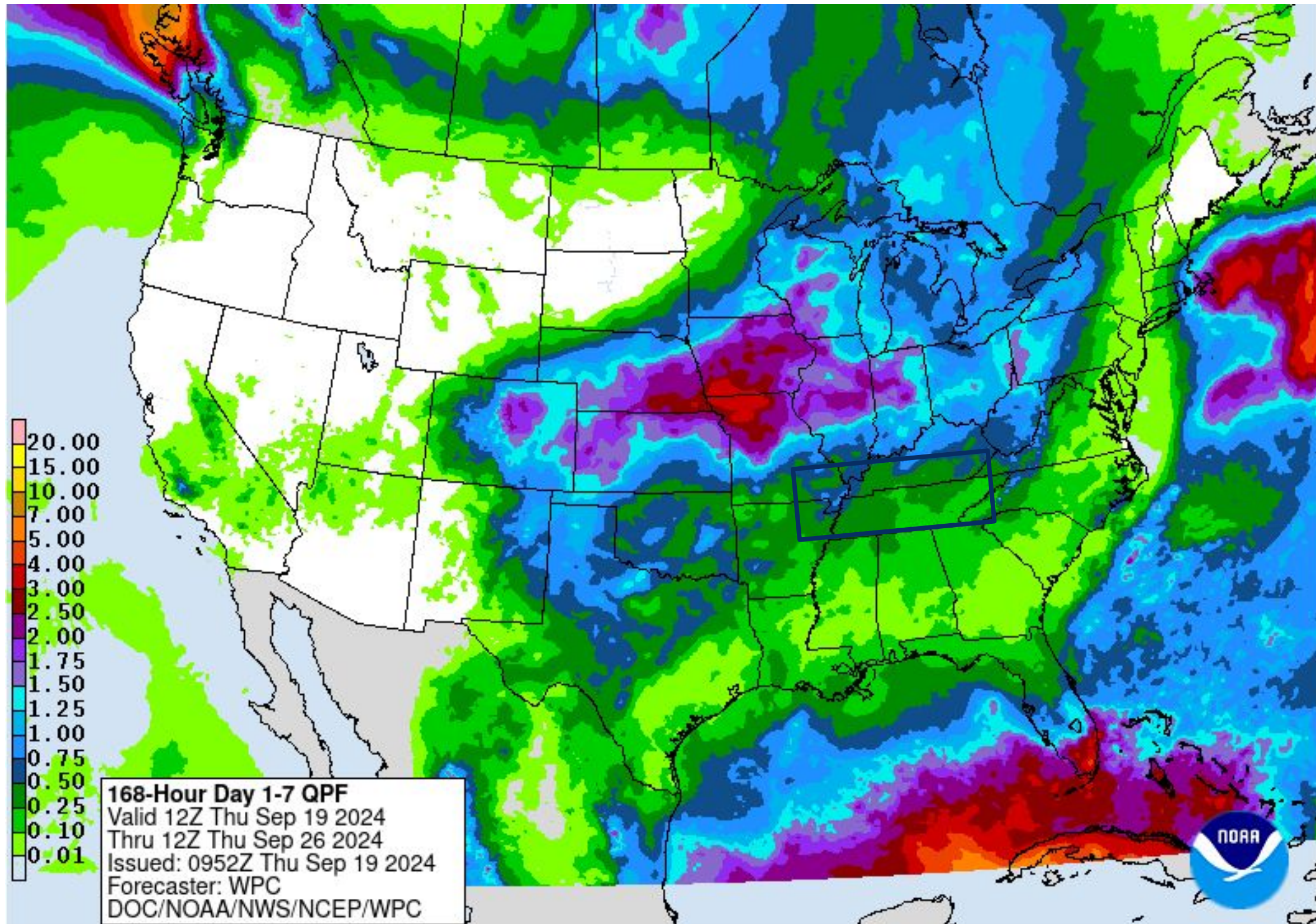




Seven Day Precipitation Forecast

Next 7 Days:

- Little if any rainfall is expected across the state, with amounts less than a half inch expected over the next 7 days.





8-14 Day Outlook

Temperature and Precipitation Outlook

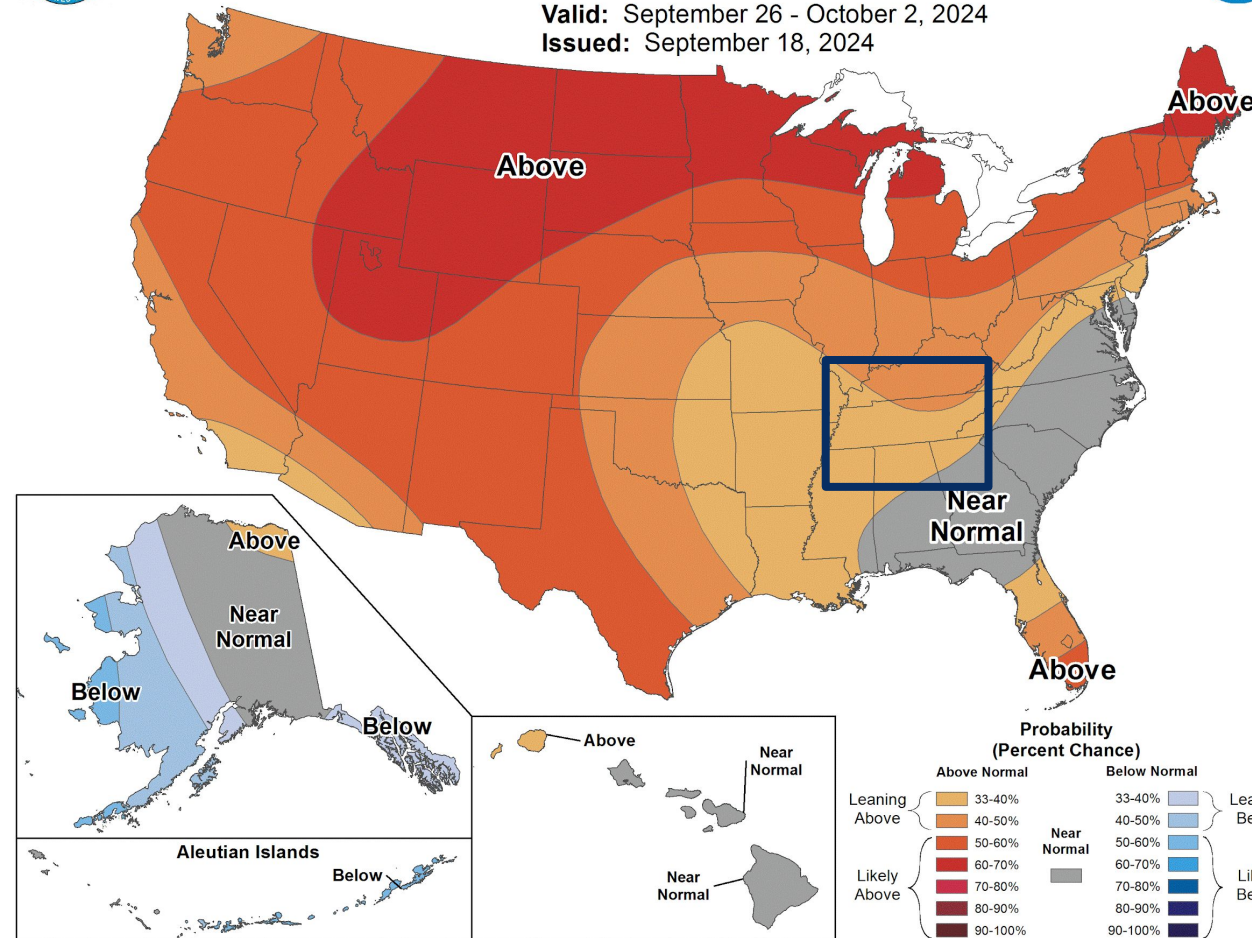
Main Takeaways:

- There is a 33 to 50 percent chance of Above Normal Temperatures in the September 26 to October 2 time period
- Near normal to slightly above normal precipitation is forecast for this time period



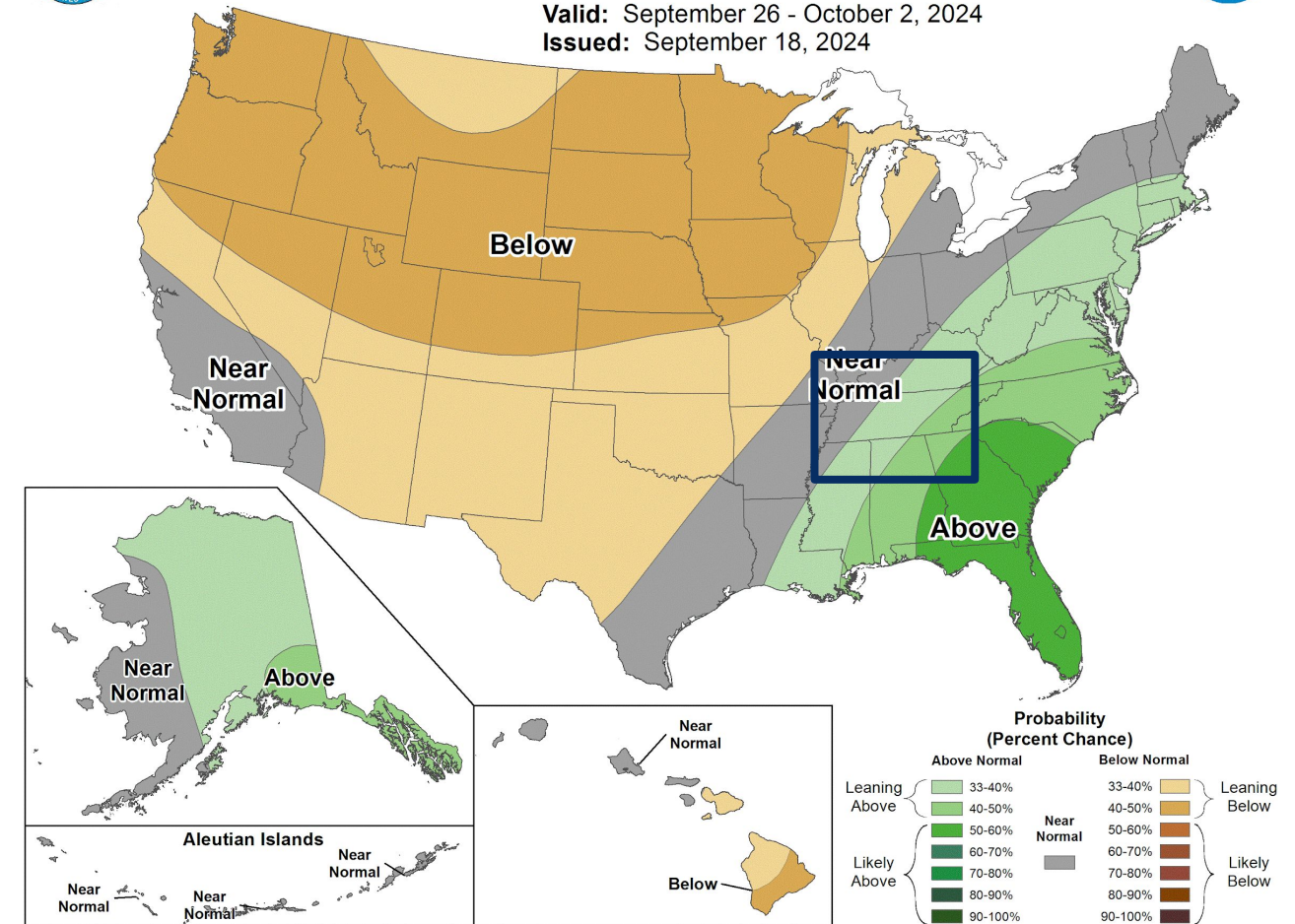
8-14 Day Temperature Outlook

Valid: September 26 - October 2, 2024
Issued: September 18, 2024



8-14 Day Precipitation Outlook

Valid: September 26 - October 2, 2024
Issued: September 18, 2024



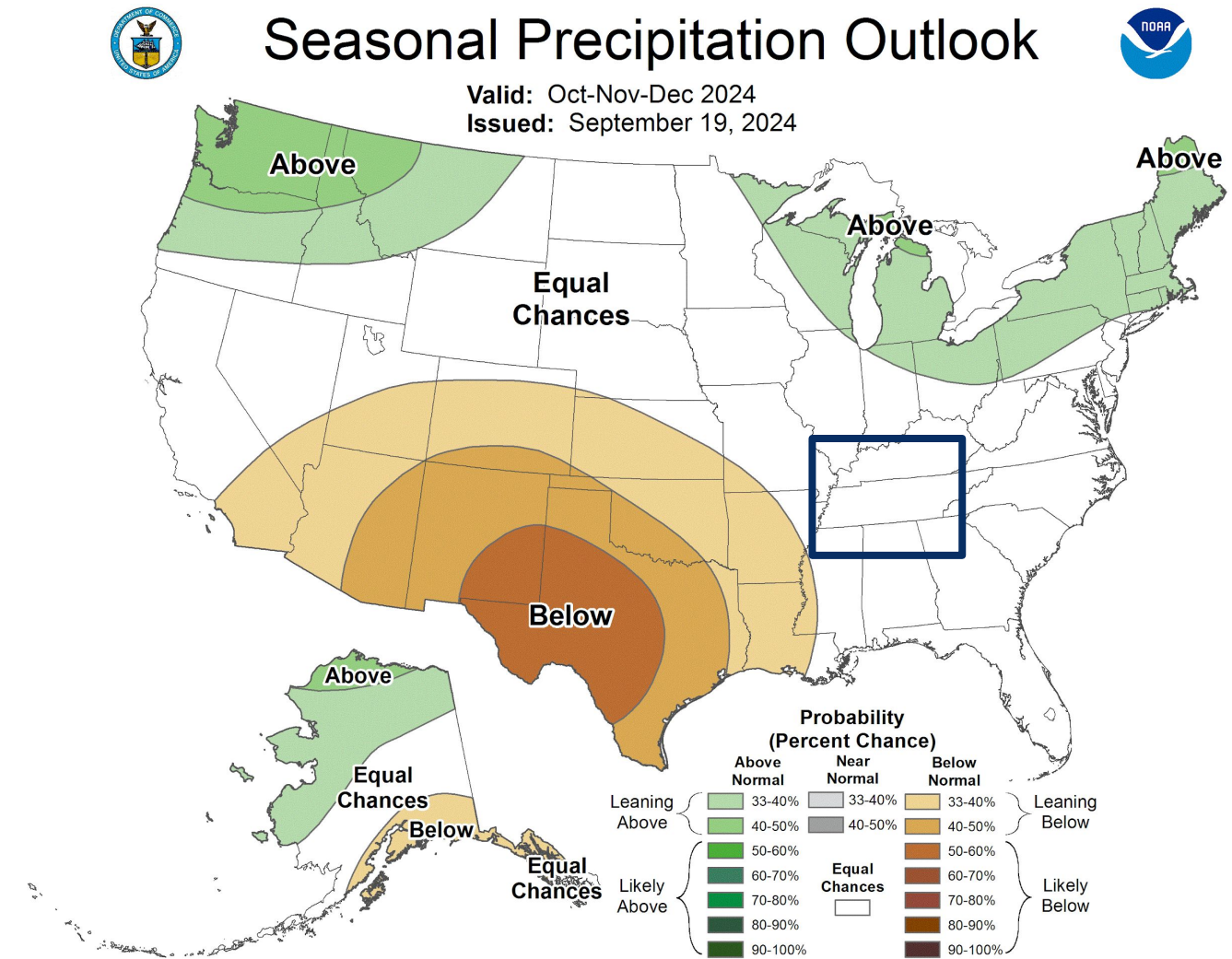
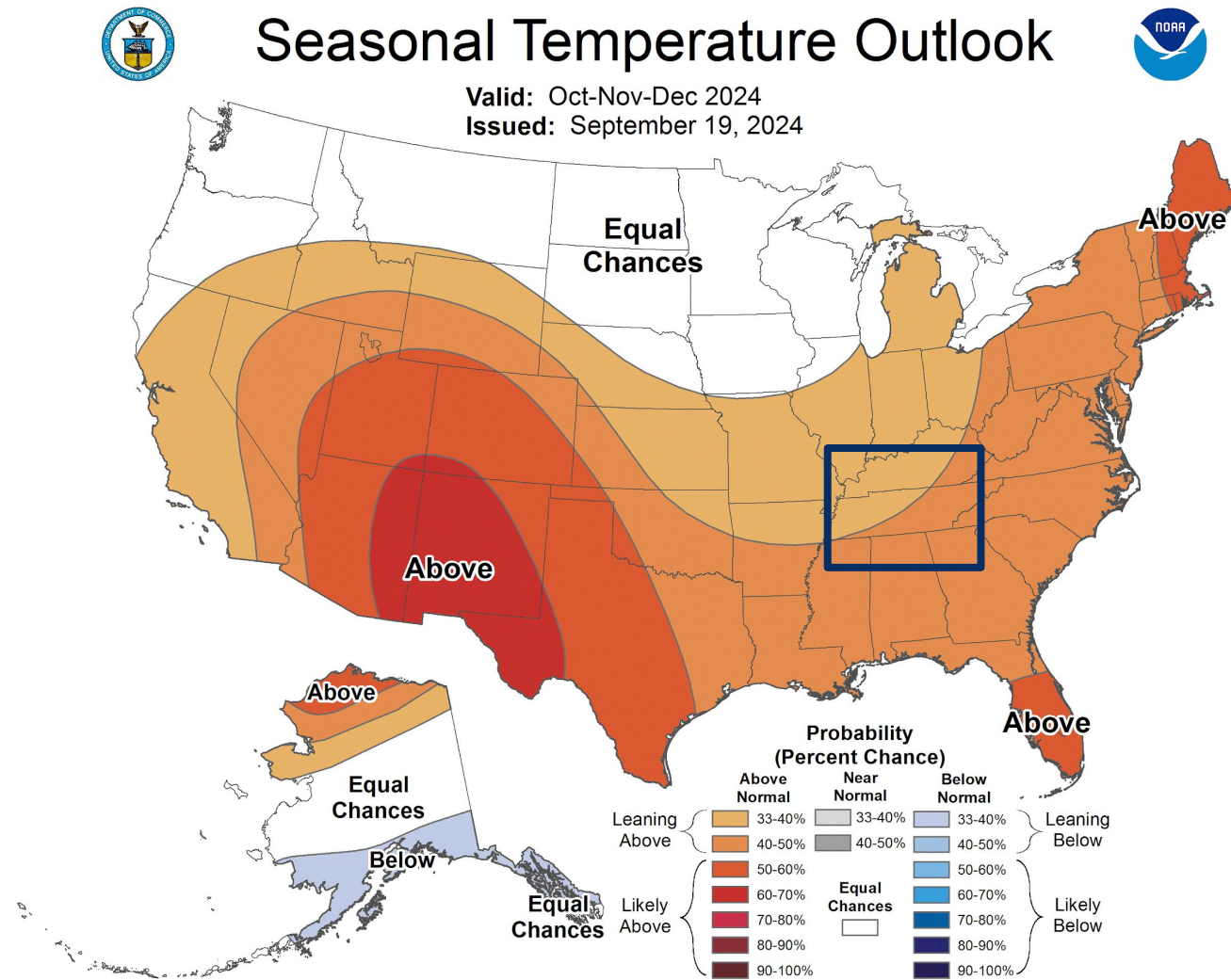


Seasonal Outlook

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

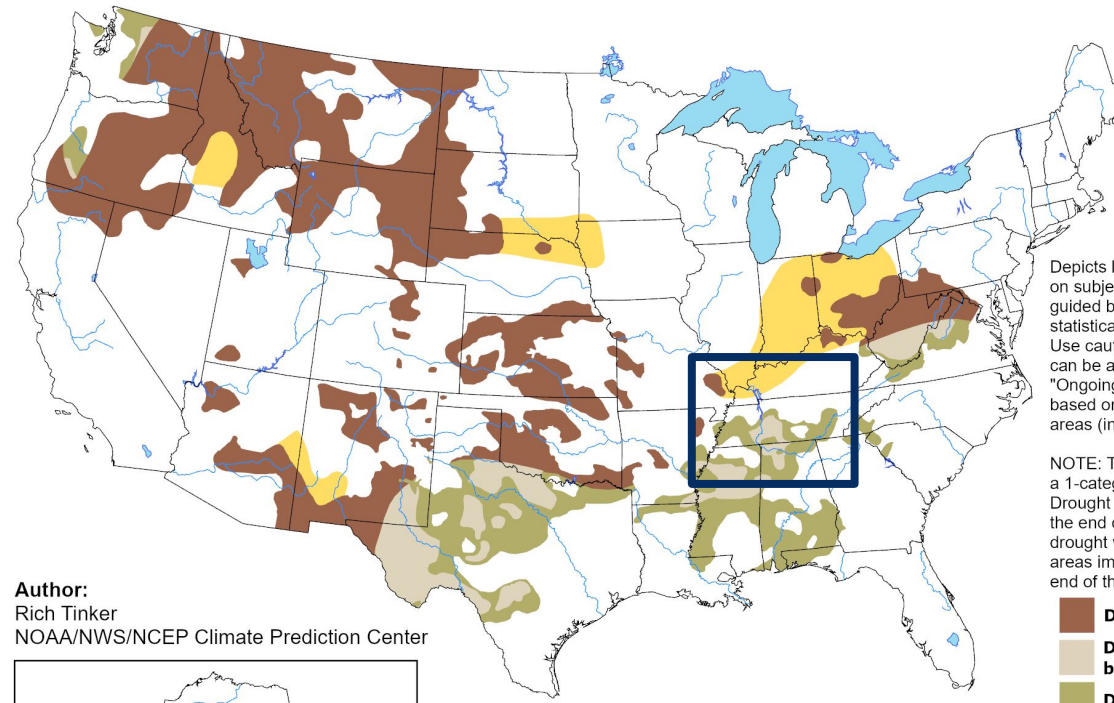
The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

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. Monthly Drought Outlook
Drought Tendency During the Valid Period

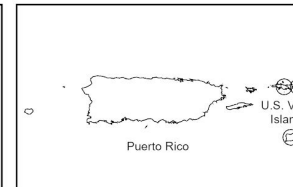
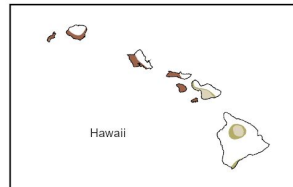
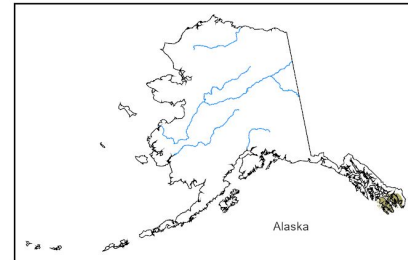
Valid for September 2024
Released August 31, 2024



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).

Author:
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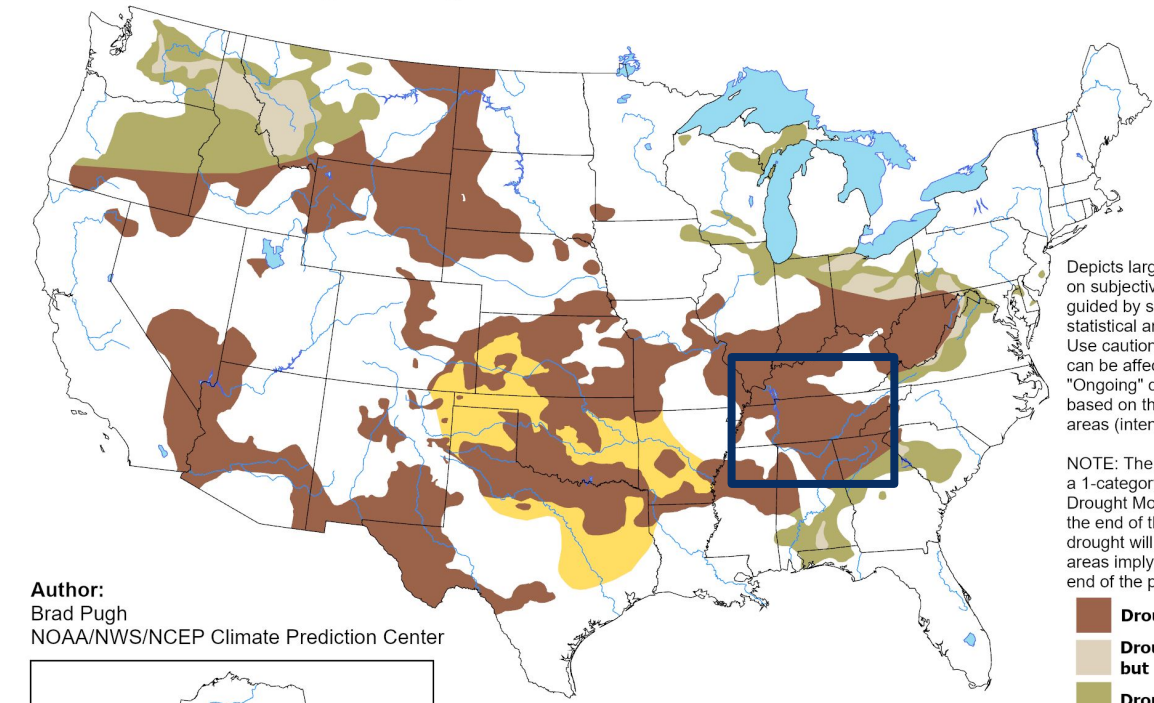


- Drought persists
- Drought remains, but improves
- Drought removal likely
- Drought development likely
- No drought

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

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

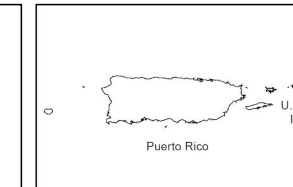
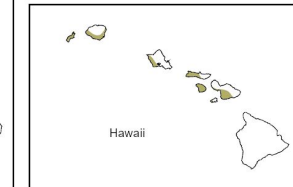
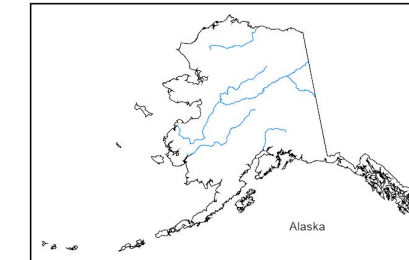
Valid for September 19 - December 31, 2024
Released September 19, 2024



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).

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Brad Pugh
NOAA/NWS/NCEP Climate Prediction Center



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

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

