



Drought Information Statement for Middle Tennessee

Valid December 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

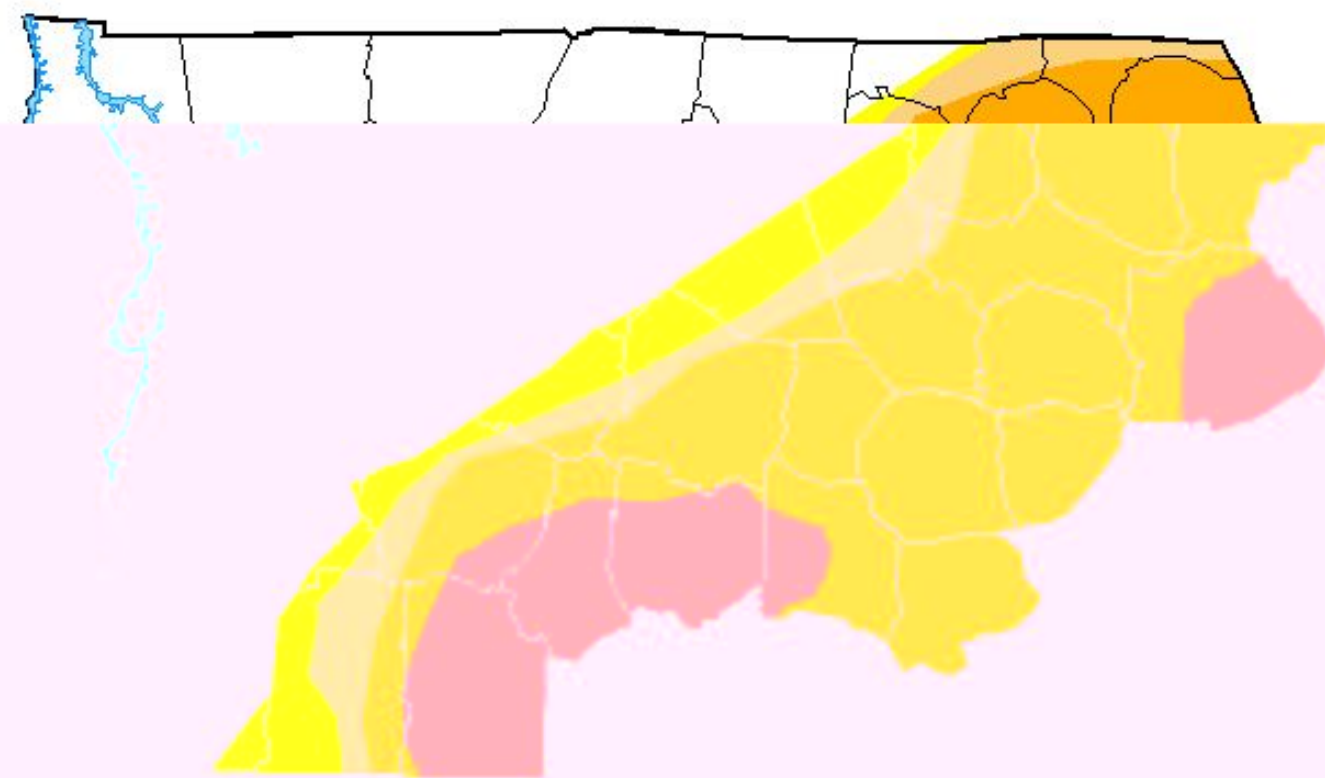
Link to the [latest U.S. Drought Monitor](#) for Middle Tennessee

U.S. Drought Monitor Nashville, TN WFO

December 17, 2024
(Released Thursday, Dec. 19, 2024)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	43.74	56.26	49.60	43.30	11.59	0.00
Last Week <i>12-10-2024</i>	38.85	61.15	54.33	43.30	8.09	0.83
3 Months Ago <i>09-17-2024</i>	0.00	100.00	98.36	64.26	5.41	0.00
Start of Calendar Year <i>01-01-2024</i>	0.00	100.00	100.00	96.71	1.11	0.00



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

National Weather Service
Nashville, TN

U.S. Drought Monitor

NOAA logo, NWS logo, U.S. Drought Monitor logo

Drought Intensity and Extent:

- **D4 Exceptional Drought:** No areas classified
- **D3 Extreme Drought:** Portions of south-central Middle Tennessee and the Cumberland Plateau
- **D2 Severe Drought:** Stretching from southern Middle Tennessee through the Cumberland Plateau
- **D1 Moderate Drought:** Affecting mainly southern and eastern Middle Tennessee
- **D0 Abnormally Dry:** Most of the mid-state east of a line from Lewisburg, to Nashville, to Lafayette

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



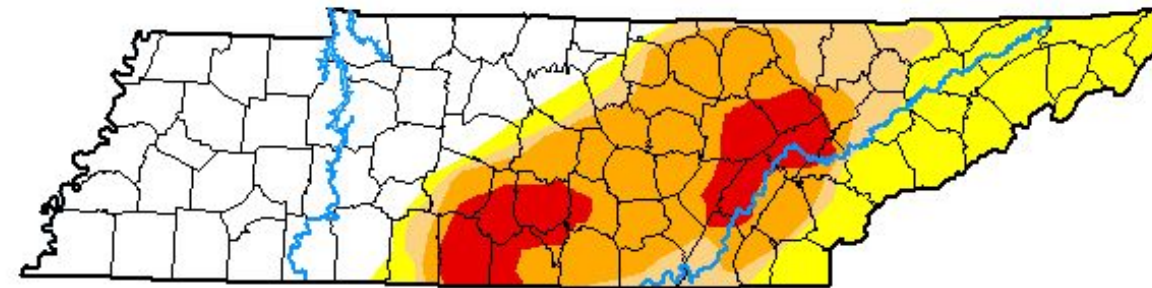
U.S Drought Monitor

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 south-central Middle Tennessee and the Cumberland Plateau
- **D2 Severe Drought:** Affecting southern Middle Tennessee through the Cumberland Plateau, as well as the Tennessee River valley between Chattanooga and Knoxville
- **D1 Moderate Drought:** Affecting most of Middle and East Tennessee
- **D0 Abnormally Dry:** Affecting most of Middle Tennessee and all of East Tennessee

U.S. Drought Monitor Tennessee



December 17, 2024
(Released Thursday, Dec. 19, 2024)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	43.20	56.80	38.32	29.33	8.92	0.00
Last Week <i>12-10-2024</i>	41.23	58.77	52.13	29.18	4.16	0.42
3 Months Ago <i>09-17-2024</i>	3.36	96.64	74.88	44.28	7.31	0.00
Start of Calendar Year <i>01-02-2024</i>	0.00	100.00	93.07	72.43	47.13	2.57
Start of Water Year <i>10-01-2024</i>	36.23	63.77	18.87	1.78	0.00	0.00
One Year Ago <i>12-19-2023</i>	0.00	100.00	93.22	70.01	29.05	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:

Brian Fuchs
National Drought Mitigation Center



droughtmonitor.unl.edu



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

National Weather Service
Nashville, TN

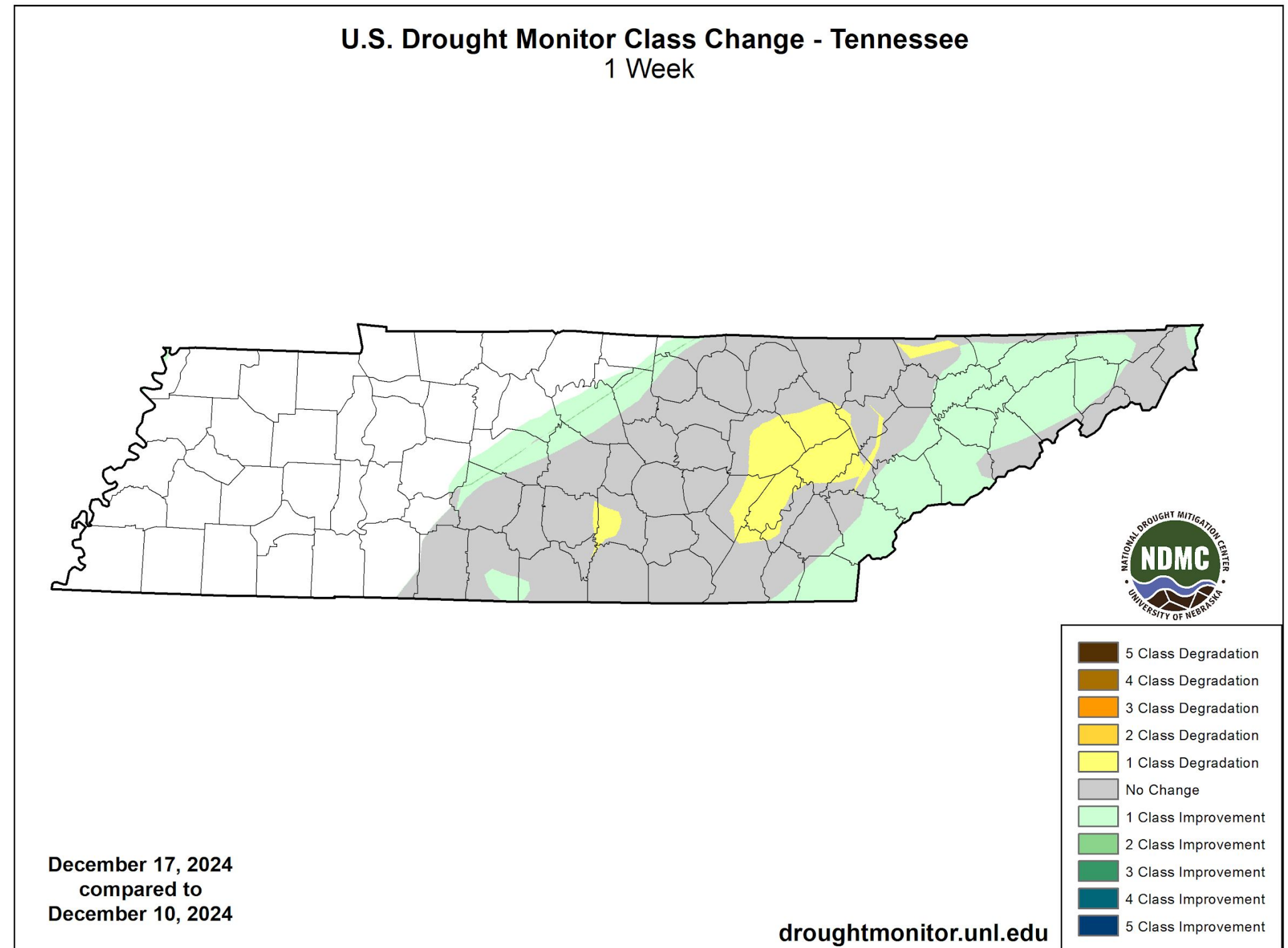


Recent Change in Drought Intensity

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

One Week Drought Monitor Class Change

- **Drought Worsened:** Some degradation occurred, mainly over the Cumberland Plateau
- **No Change:** Most of Middle and East Tennessee remains unchanged
- **Drought Improved:** Some improvement was noted on the western edge of the drought impacted area in Middle Tennessee, and across East Tennessee



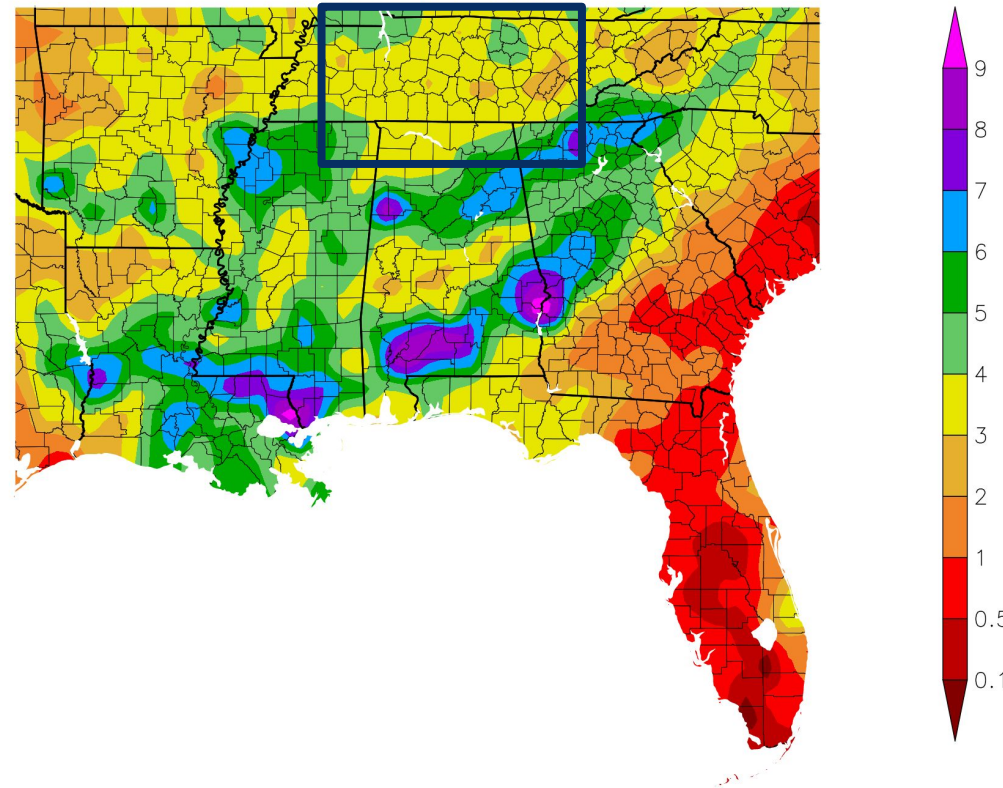


Precipitation

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

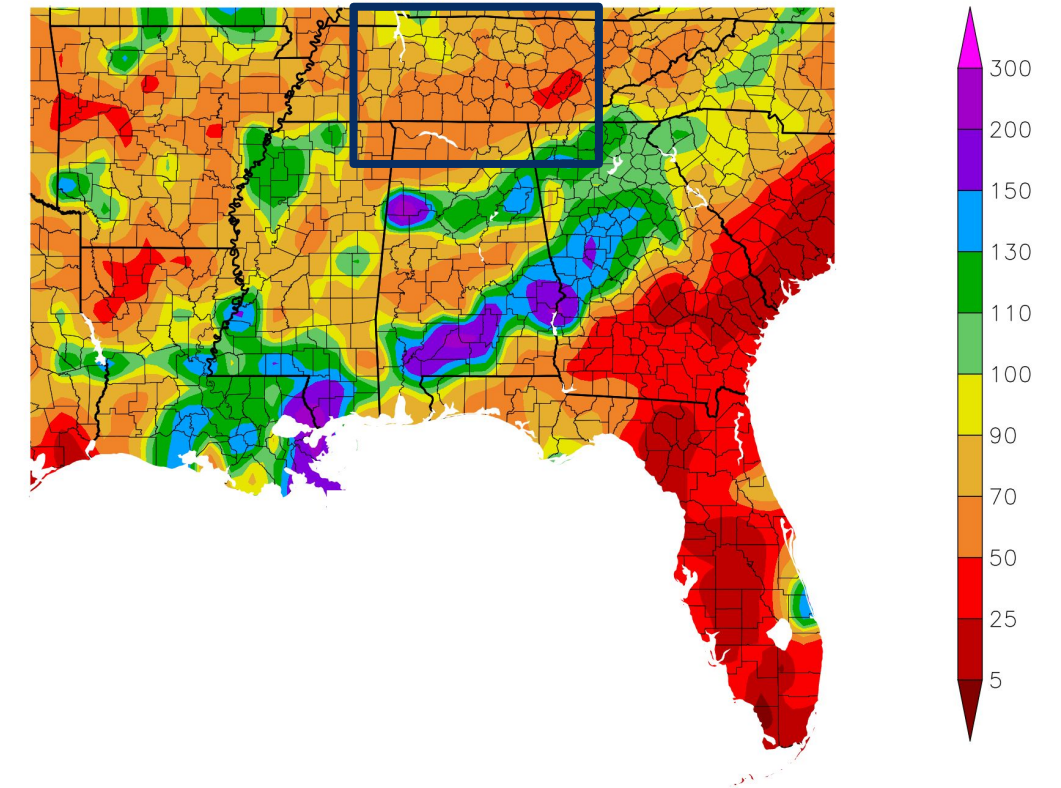
- Most of the mid-state received 3.0 to 5.0 inches of precipitation over the last 30 days
- The northwest and northeast areas of Middle Tennessee saw the most precipitation
- This is 50% to 90% of normal precipitation, with some northwest portions of the mid-state seeing 100% to 110% of normal precipitation

Precipitation (in)
11/19/2024 - 12/18/2024



Generated 12/19/2024 at HPRCC using provisional data.

Percent of Normal Precipitation (%)
11/19/2024 - 12/18/2024



NOAA Regional Climate Centers Generated 12/19/2024 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 above normal across northwest Middle Tennessee, but remain below normal to much below normal across southern Middle Tennessee

Agricultural Impacts

- The growing season has ended, and a lack of moisture has seriously impacted crop yields and livestock management.

Fire Hazard Impacts

- A burn permit is required from the Tennessee Division of Forestry between October 15 and May 15 where local restrictions do not supercede. Check with local municipalities for additional details.

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 may have implemented water restrictions and drought plans.



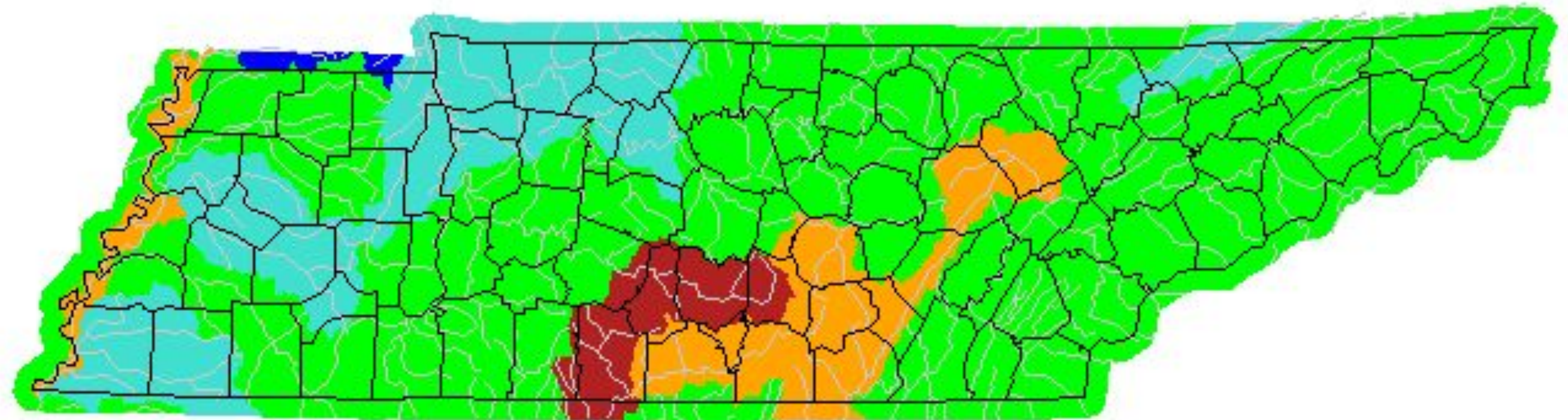


Hydrologic Conditions and Impacts

Main Takeaways:

- Much of the state is seeing normal to above normal streamflows (between the 25th and 90th percentile)
- The upper portions of the Duck River and portions of the Cumberland Plateau are still being impacted by below normal to much below normal stream flows

Wednesday, December 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		



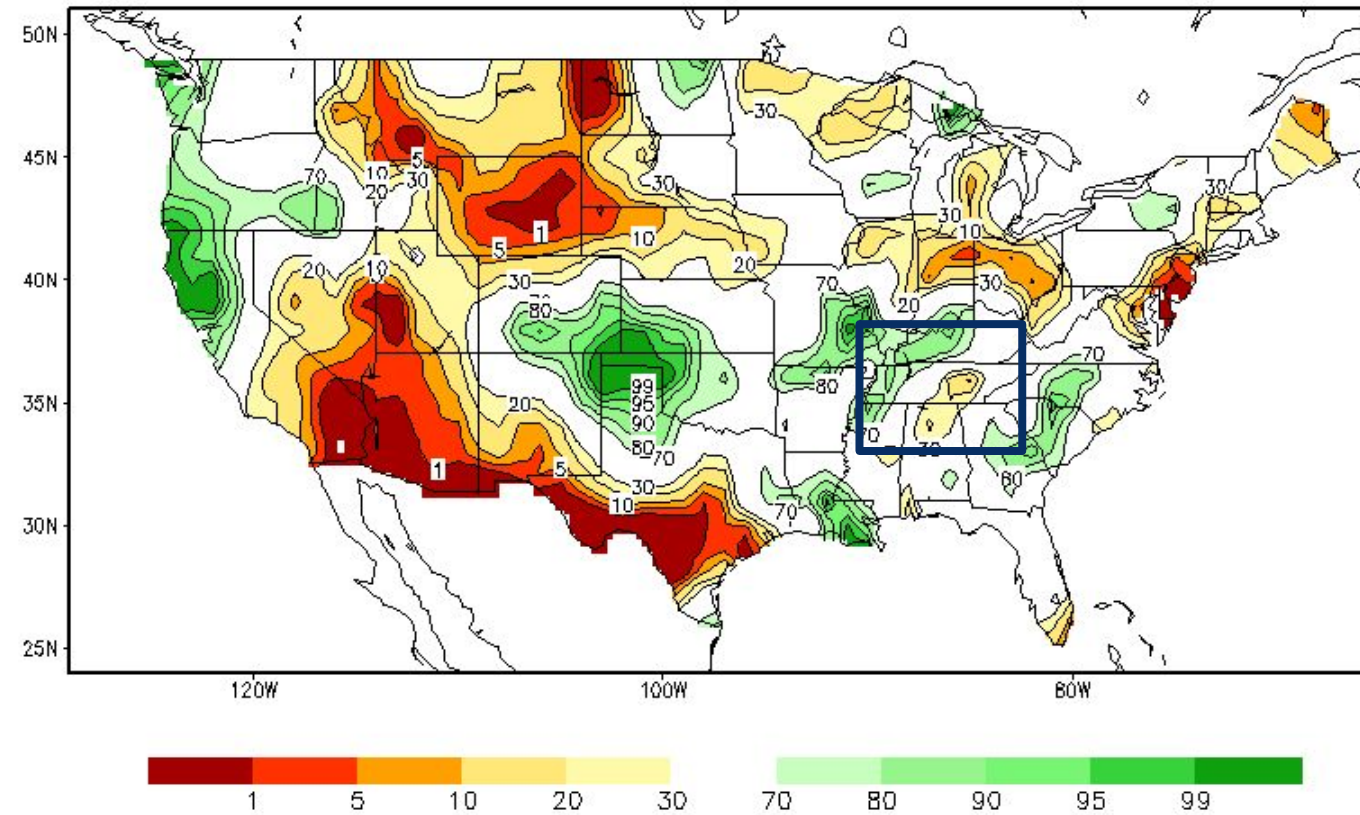


Agricultural Impacts

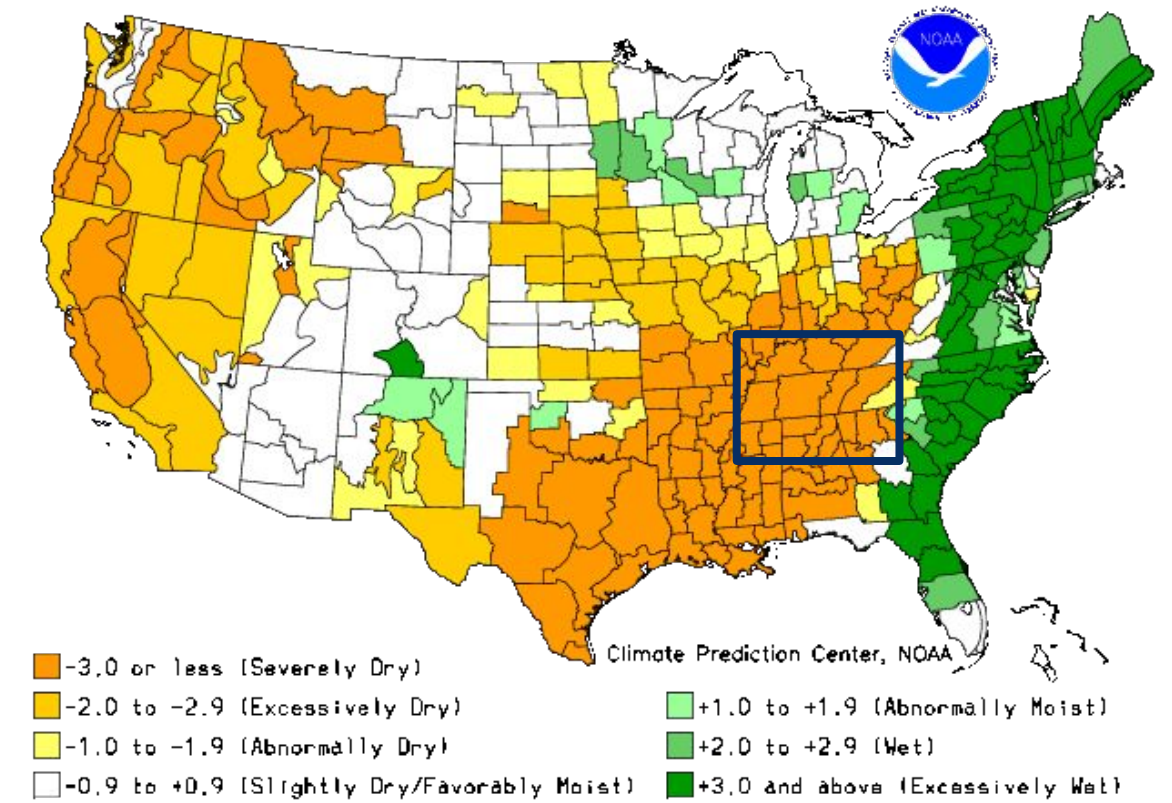
Main Takeaways:

- Soil moisture has been gradually improving due to recent rainfall across western Middle Tennessee
- Some areas of northwest Middle Tennessee are in the 70th to 80th percentile
- Portions of eastern Middle Tennessee remain in the 10th to 30th percentile

Calculated Soil Moisture Ranking Percentile
DEC 18, 2024



Crop Moisture Index by Division
Weekly Value for Period Ending OCT 26, 2024
Short Term Need vs. Available Water in a Shallow Soil Profile



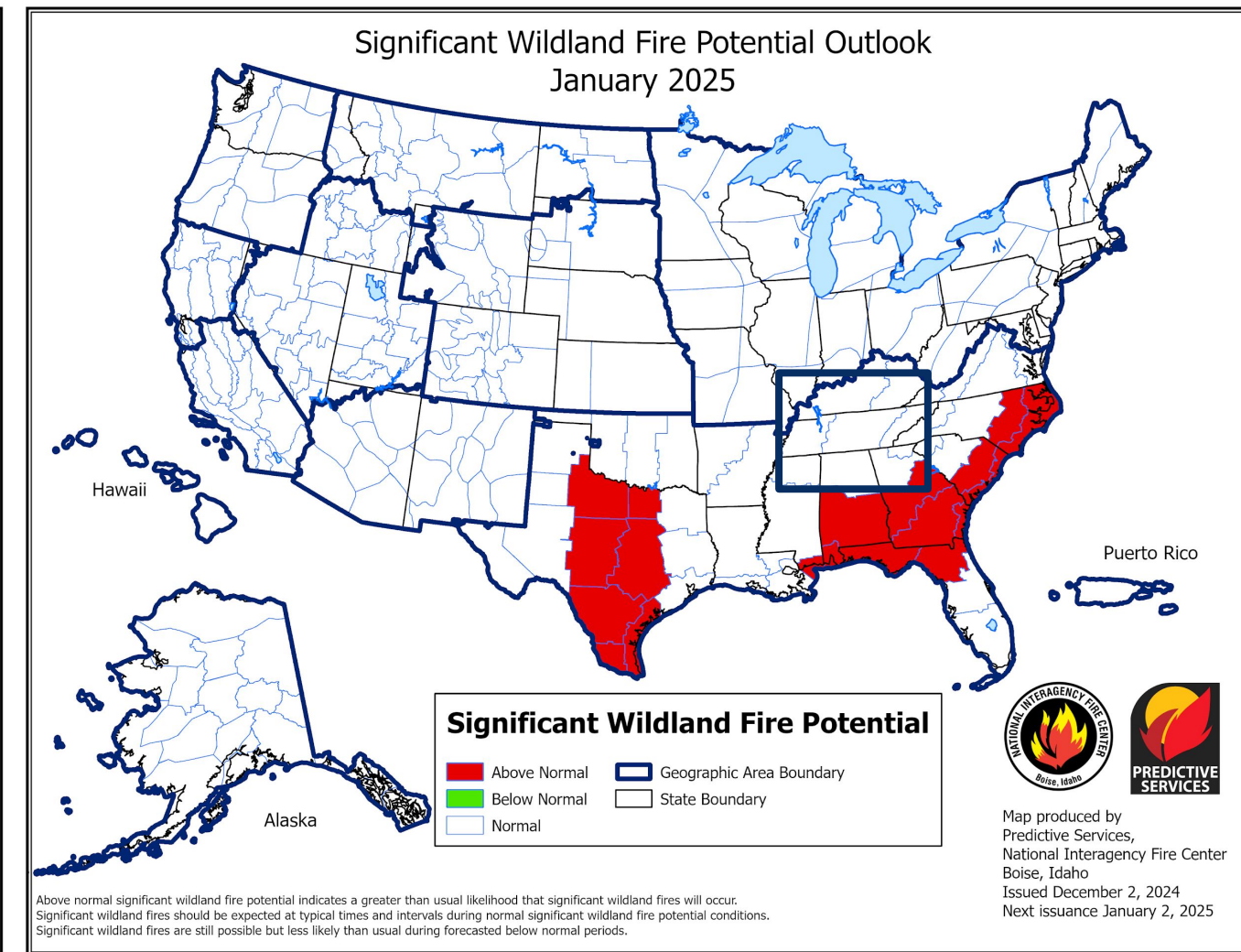
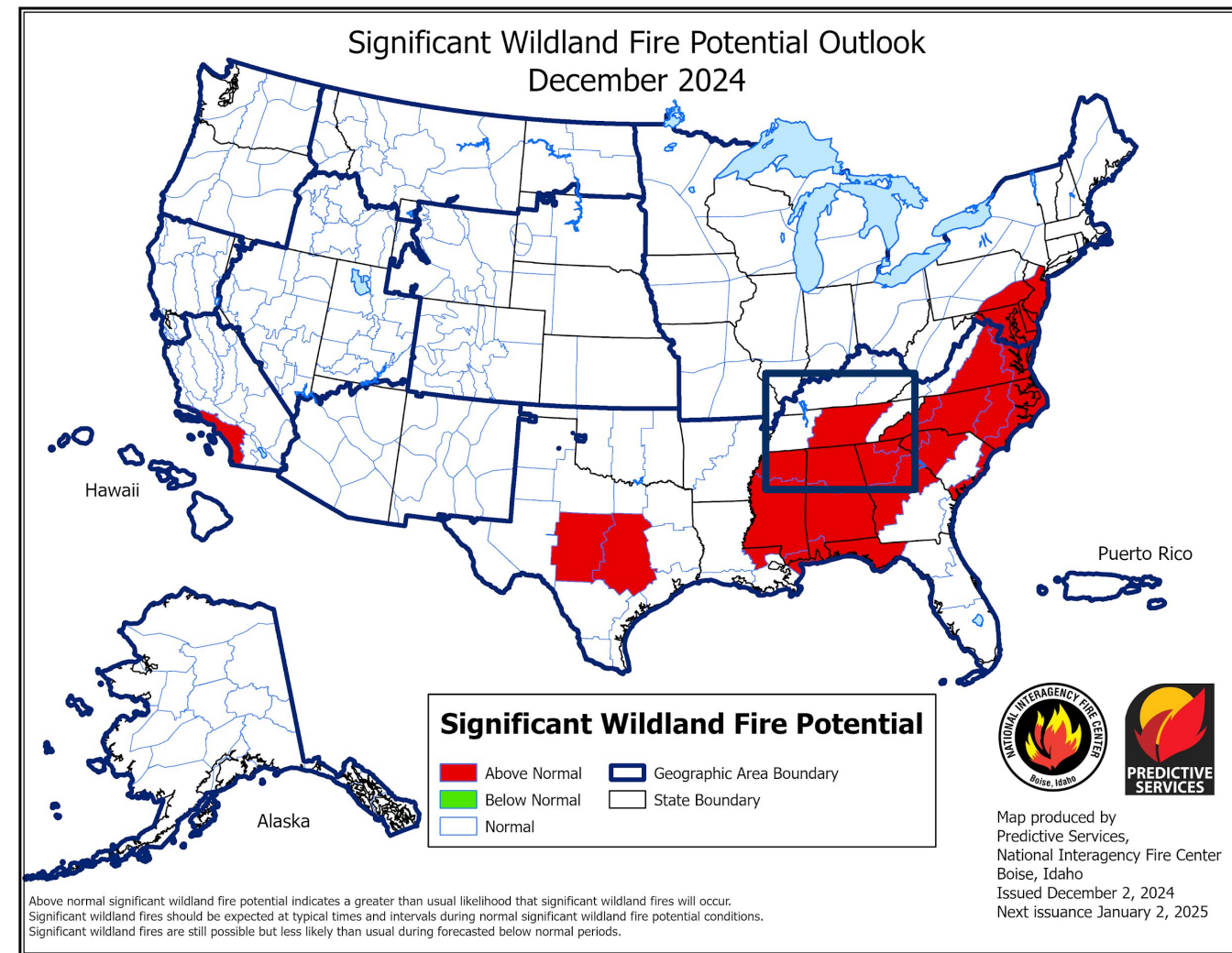


Fire Hazard Impacts

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

Main Takeaways

- The Wildland Fire Potential remains above normal for December due to the persistent dryness
- For January the Wildland Fire Potential looks to improve to normal levels as rainfall becomes more persistent



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

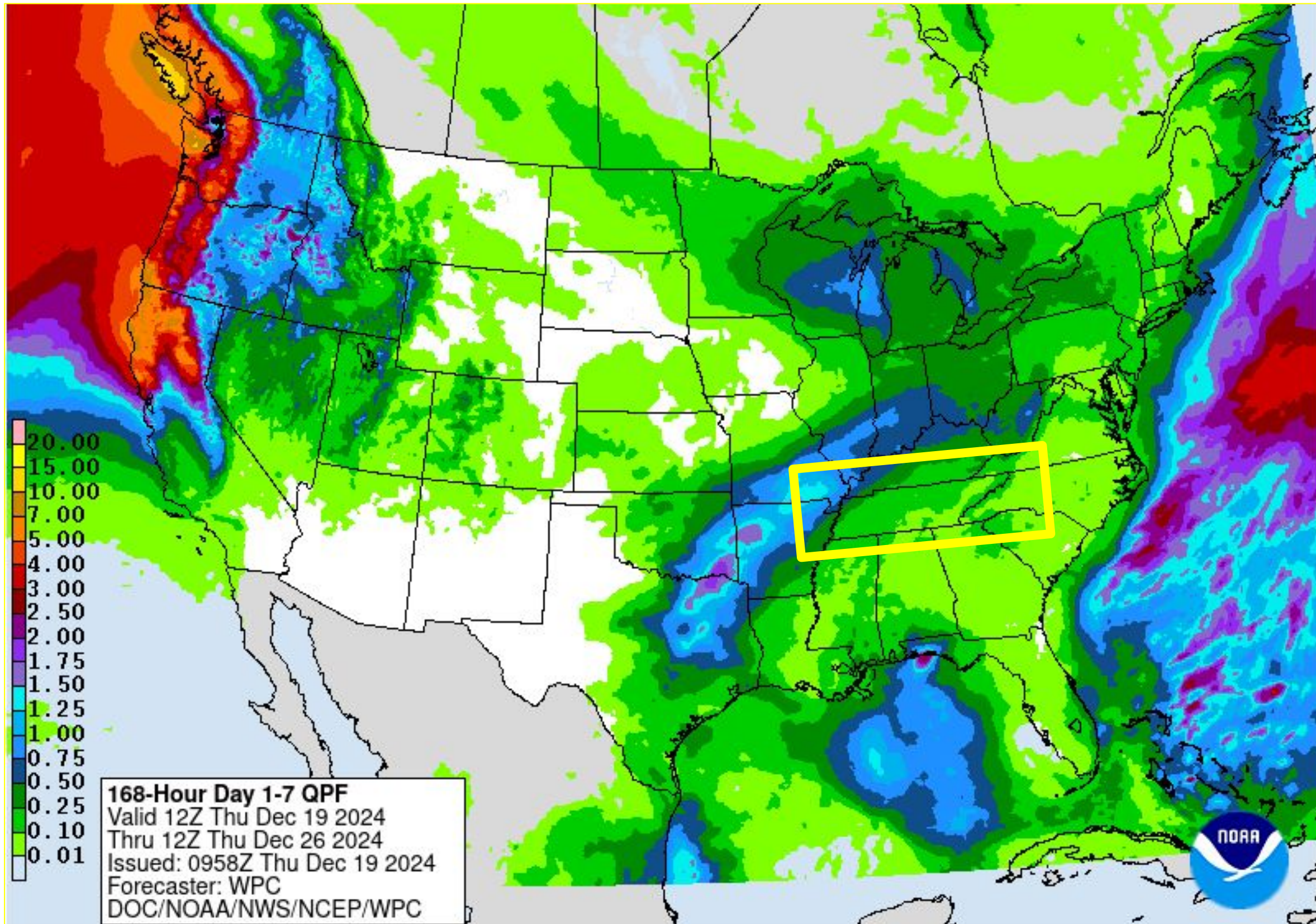




Seven Day Precipitation Forecast

Next 7 Days:

- Little rainfall is expected over the next 7 days
- Amounts of 0.25 inches or less are expected
- The northwest portions of West Tennessee may see slightly higher amounts of precipitation





8-14 Day Outlook

Temperature and Precipitation Outlook

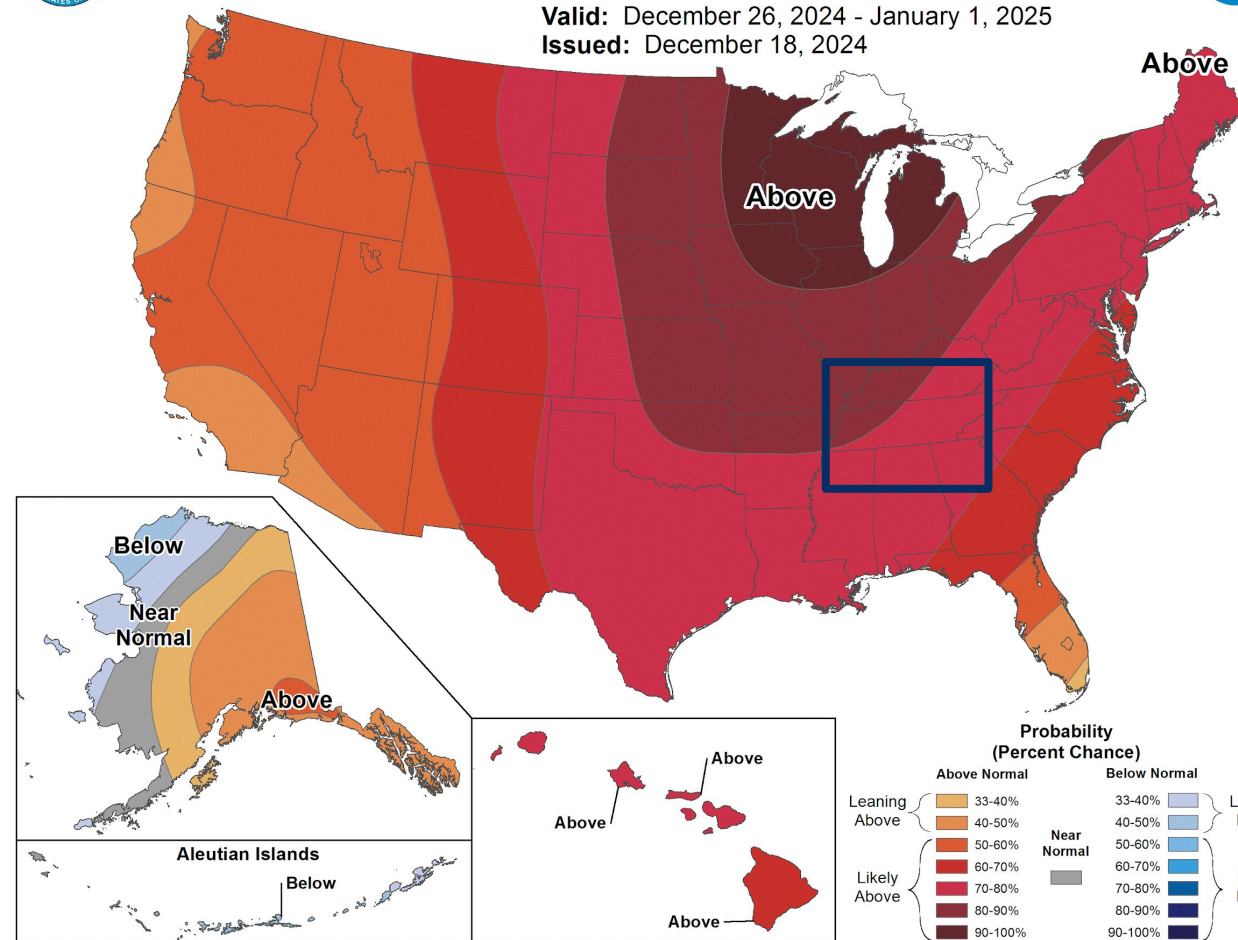
Main Takeaways:

- There is a 70% to 90% chance of above normal temperatures in the December 26 - January 1 time period
- There is a 40% to 50% chance of above normal precipitation in the December 26 - January 1 time period



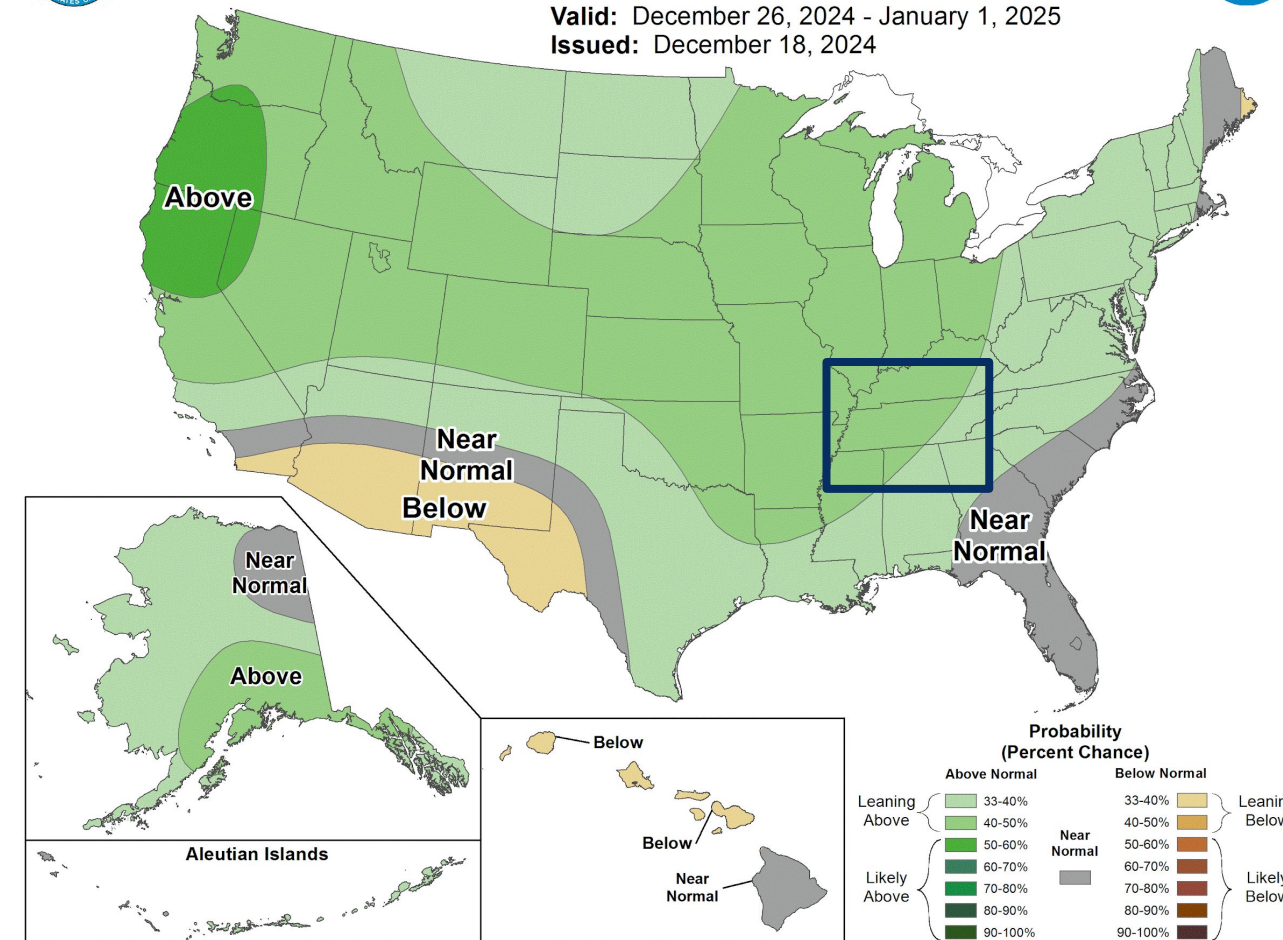
8-14 Day Temperature Outlook

Valid: December 26, 2024 - January 1, 2025
Issued: December 18, 2024



8-14 Day Precipitation Outlook

Valid: December 26, 2024 - January 1, 2025
Issued: December 18, 2024



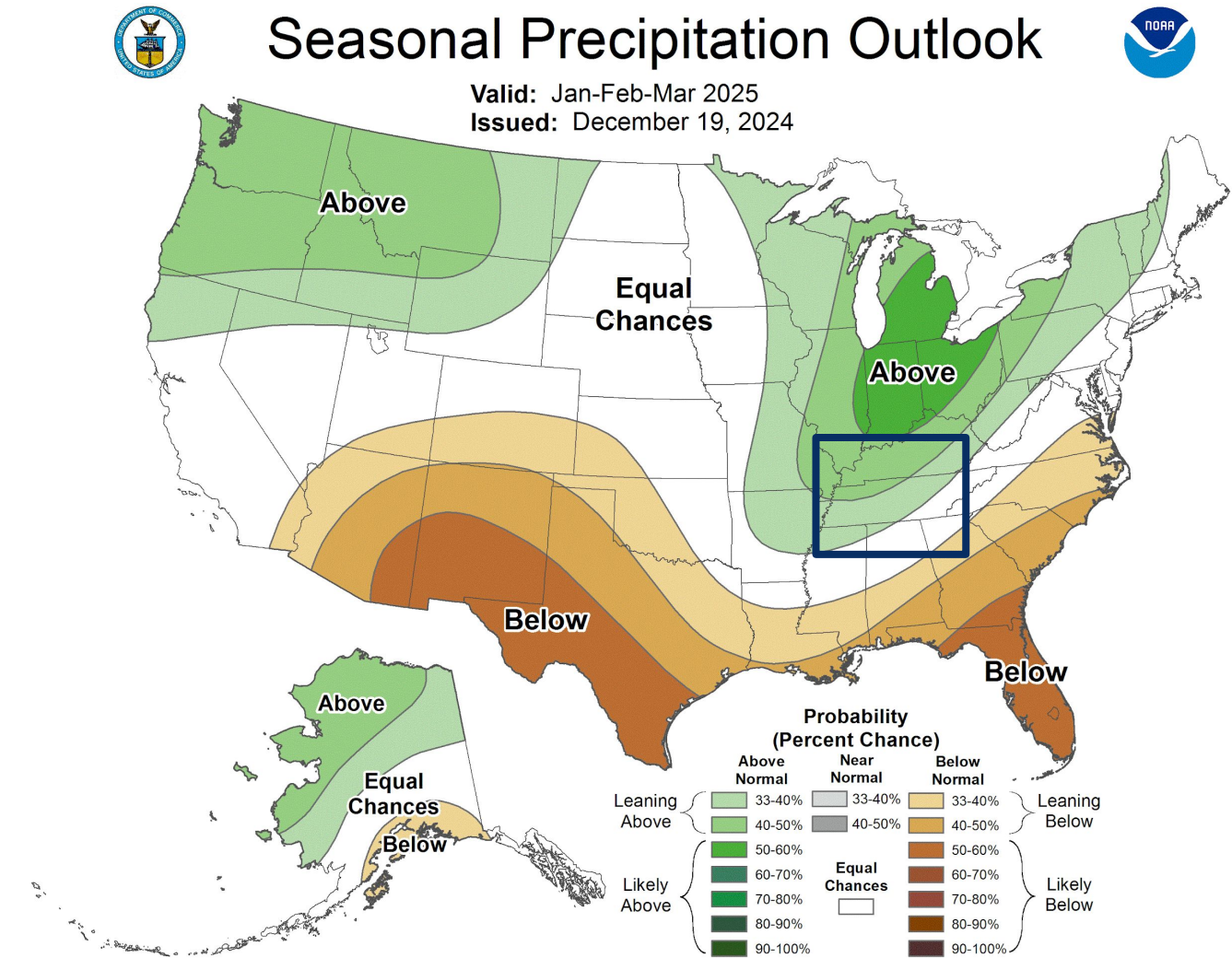
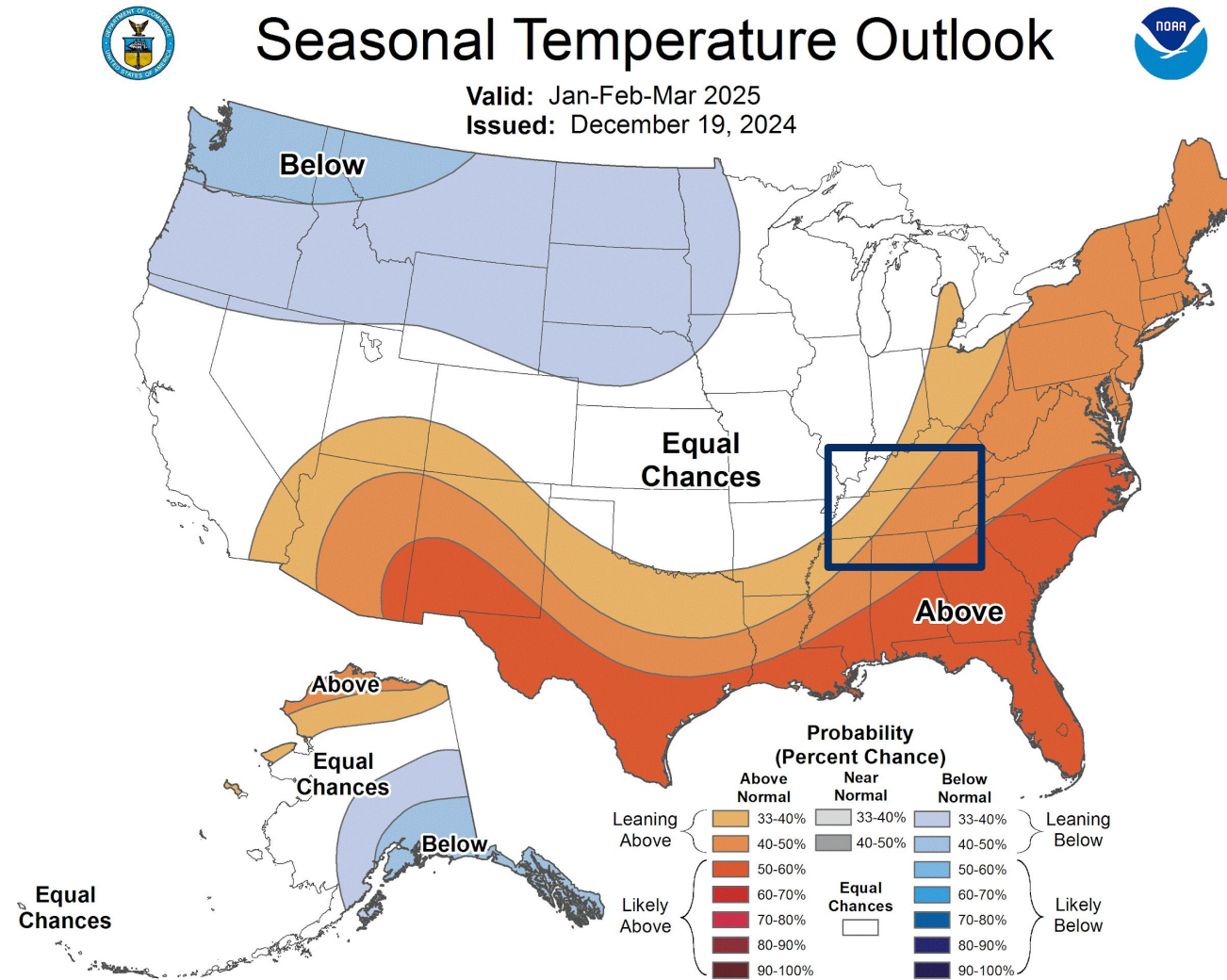


Seasonal Outlook

Seasonal Temperature and Precipitation Outlook

Main Takeaways:

- There is a higher probability (33-50% chance) for above normal temperatures during Jan-Feb-Mar for Middle Tennessee
- There is a higher probability (33-50% chance) for above normal precipitation during Jan-Feb-Mar for Middle Tennessee





Drought Outlook

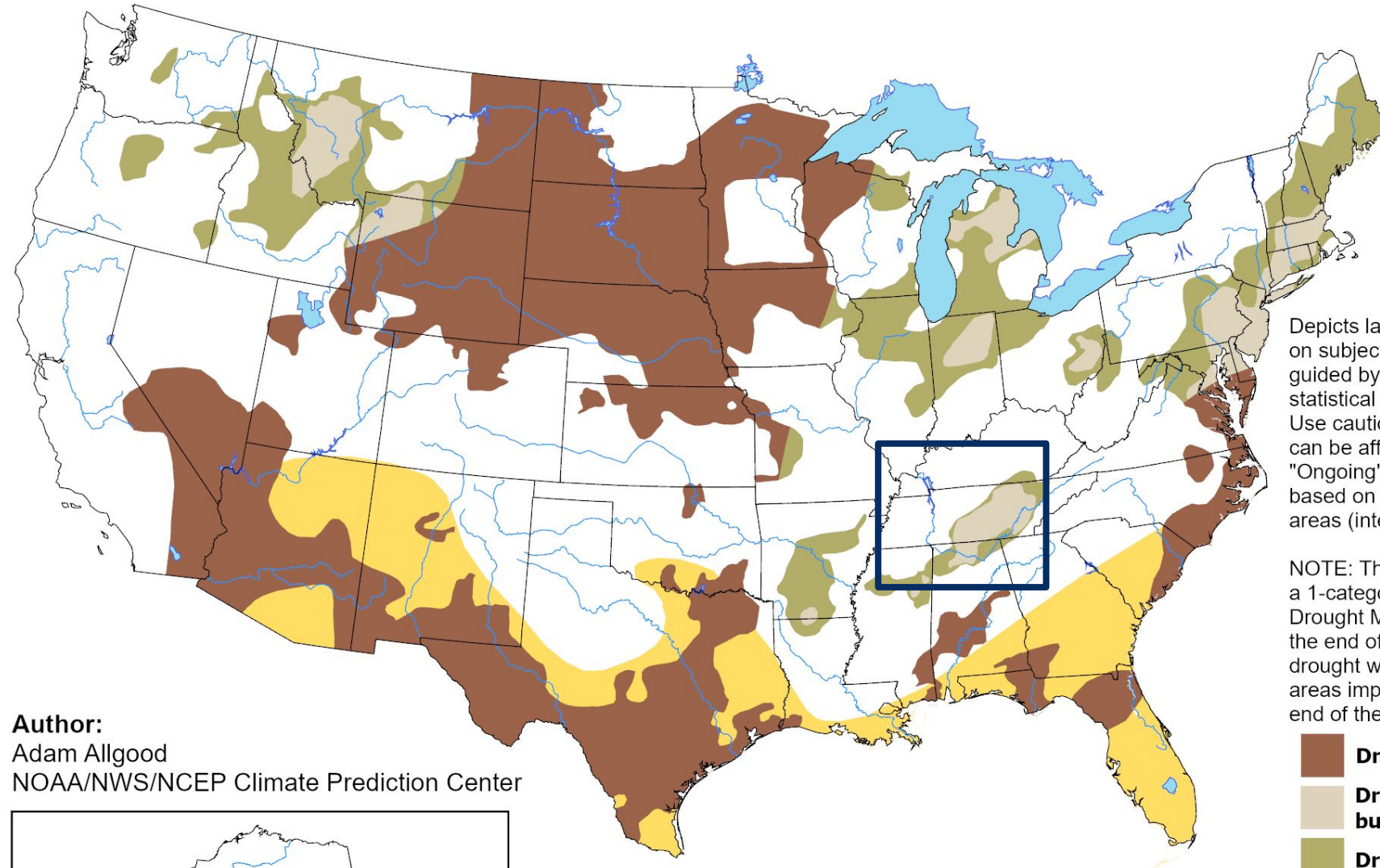
The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

Main Takeaways:

- Drought conditions are expected to remain but gradually improve through this winter
- Drought may persist in the hardest hit areas in southern Middle Tennessee and East Tennessee

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

Valid for December 19, 2024 - March 31, 2025
Released December 19, 2024

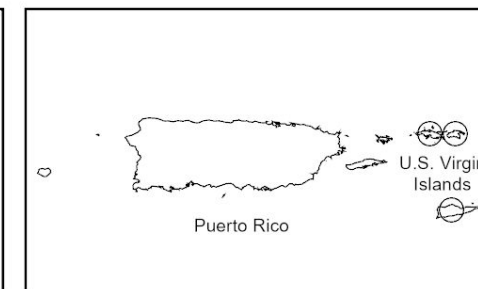
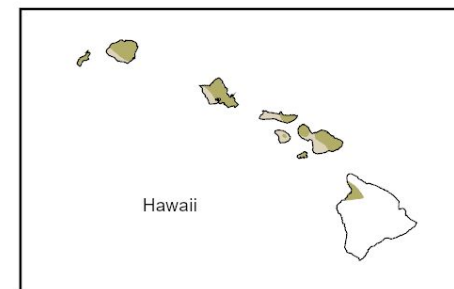
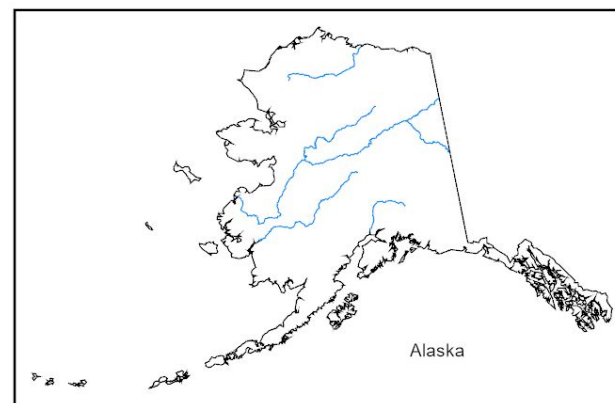


Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to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

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



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

