

# MAC-T Monthly Call

## Midwest Agriculture & Climate Team

8 January 2025

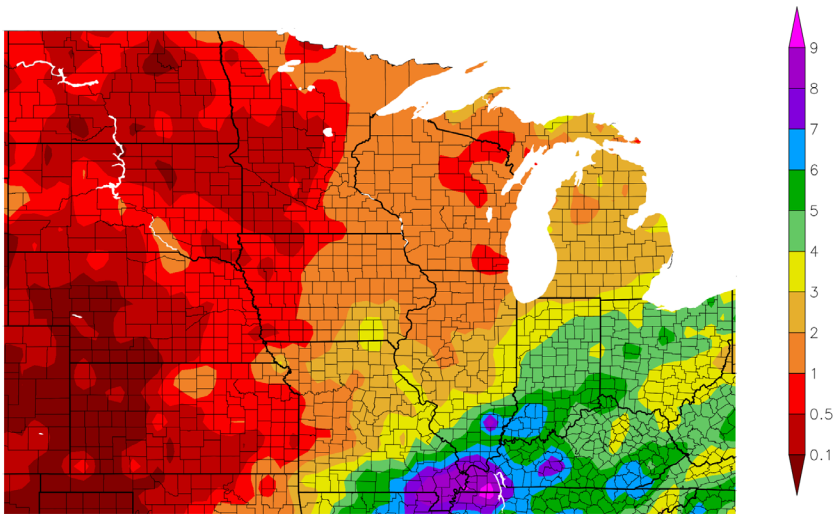
For more information:

[Dennis.todey@usda.gov](mailto:Dennis.todey@usda.gov)



Midwest Climate Hub  
U.S. DEPARTMENT OF AGRICULTURE

Precipitation (in)  
12/8/2024 – 1/6/2025



Generated 1/7/2025 at HPRCC using provisional data.

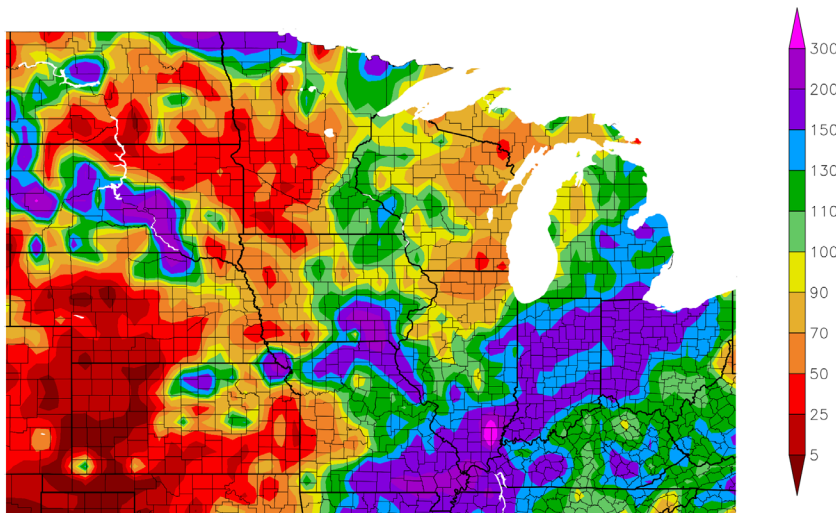
NOAA Regional Climate Centers

# Monthly Precip

- Lowest precipitation totals are in the W portion of the region highest in the S/SE.
  - In the W, not uncommon with  $\leq 50\%$  of monthly totals.
  - S/SE portions  $\geq 150\%$  of normal.
- Nealy all of the region is  $\pm 1.5''$  of normal precipitation.

<https://hprcc.unl.edu/maps.php?map=ACISClimateMaps>

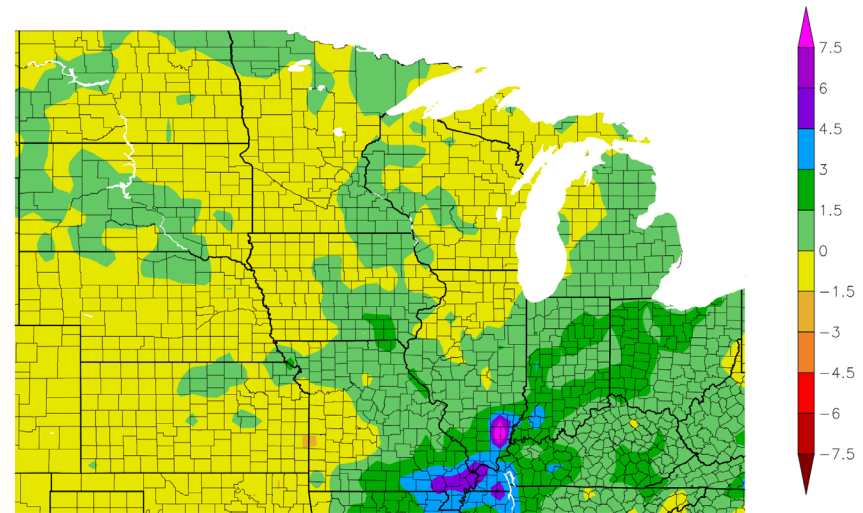
Percent of Normal Precipitation (%)  
12/8/2024 – 1/6/2025



Generated 1/7/2025 at HPRCC using provisional data.

NOAA Regional Climate Centers

Departure from Normal Precipitation (in)  
12/8/2024 – 1/6/2025

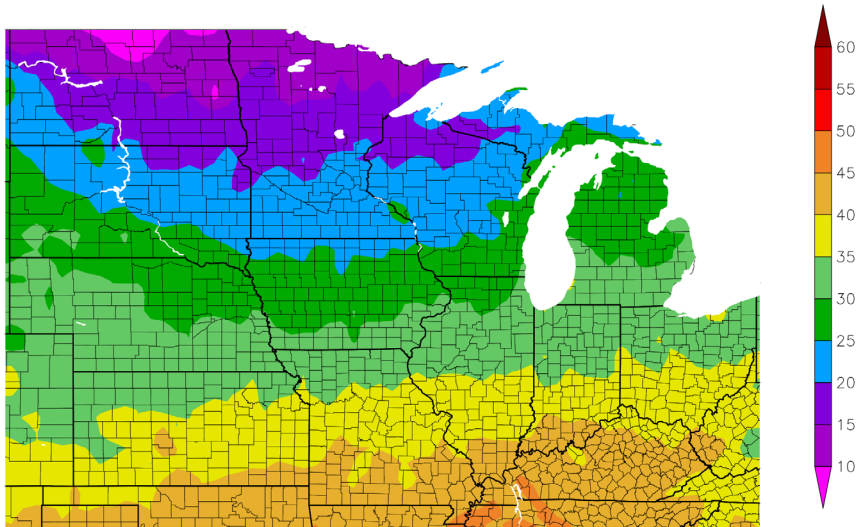


Generated 1/7/2025 at HPRCC using provisional data.

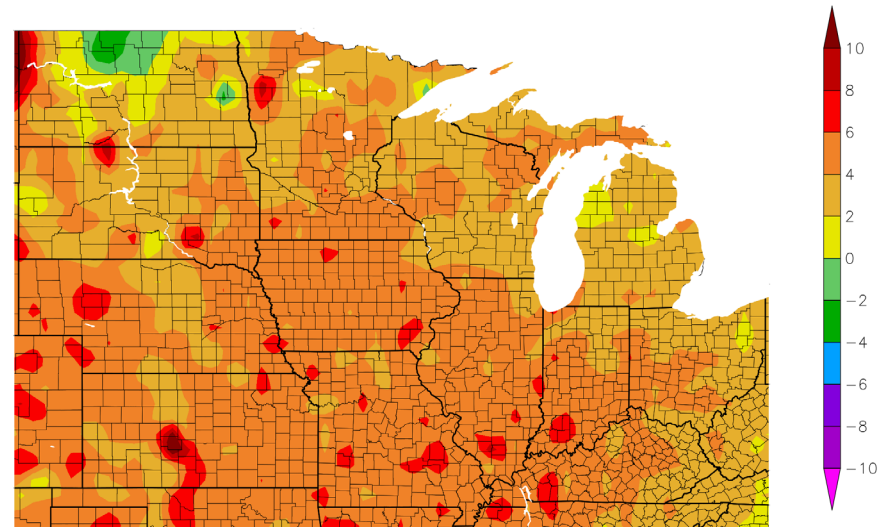
NOAA Regional Climate Centers

# Monthly Temps

Temperature (F)  
12/8/2024 – 1/6/2025



Departure from Normal Temperature (F)  
12/8/2024 – 1/6/2025



Generated 1/7/2025 at HPRCC using provisional data.

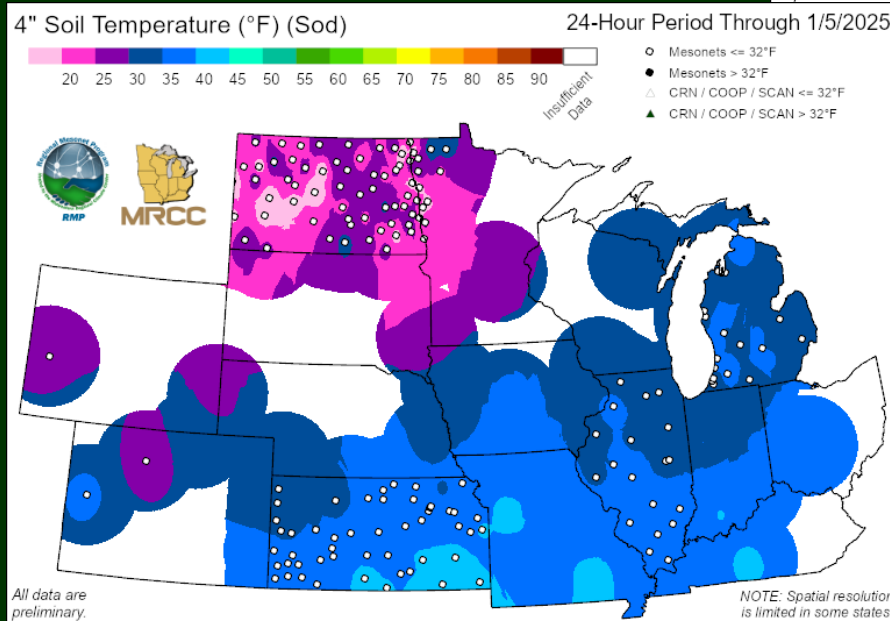
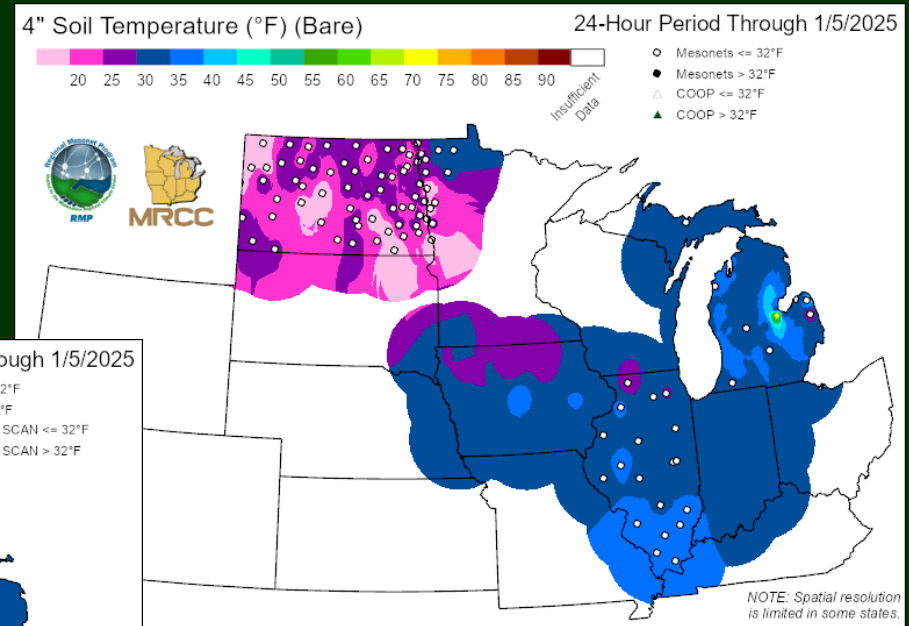
NOAA Regional Climate Centers

Generated 1/7/2025 at HPRCC using provisional data.

NOAA Regional Climate Centers

- Above average temps (2 to 6°F) around the region.
  - Temperatures ranged from the low 40s in the southern portions to lower 10s in the northern portions.
  - Pockets of  $\geq 6^\circ\text{F}$  above normal through out the region.
  - Despite recent colder temperatures – still warmer than average.

# Soil Temps



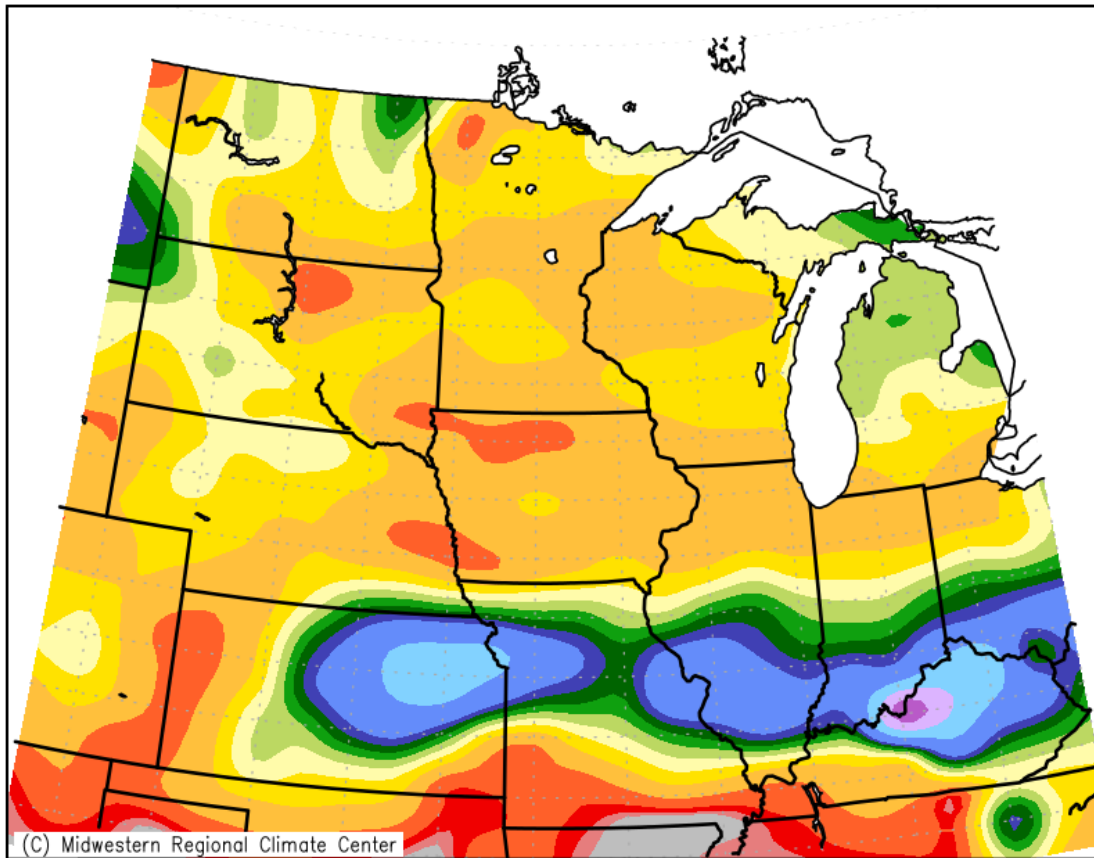
- Range from 35-45°F in the S to 20-30°F in the N





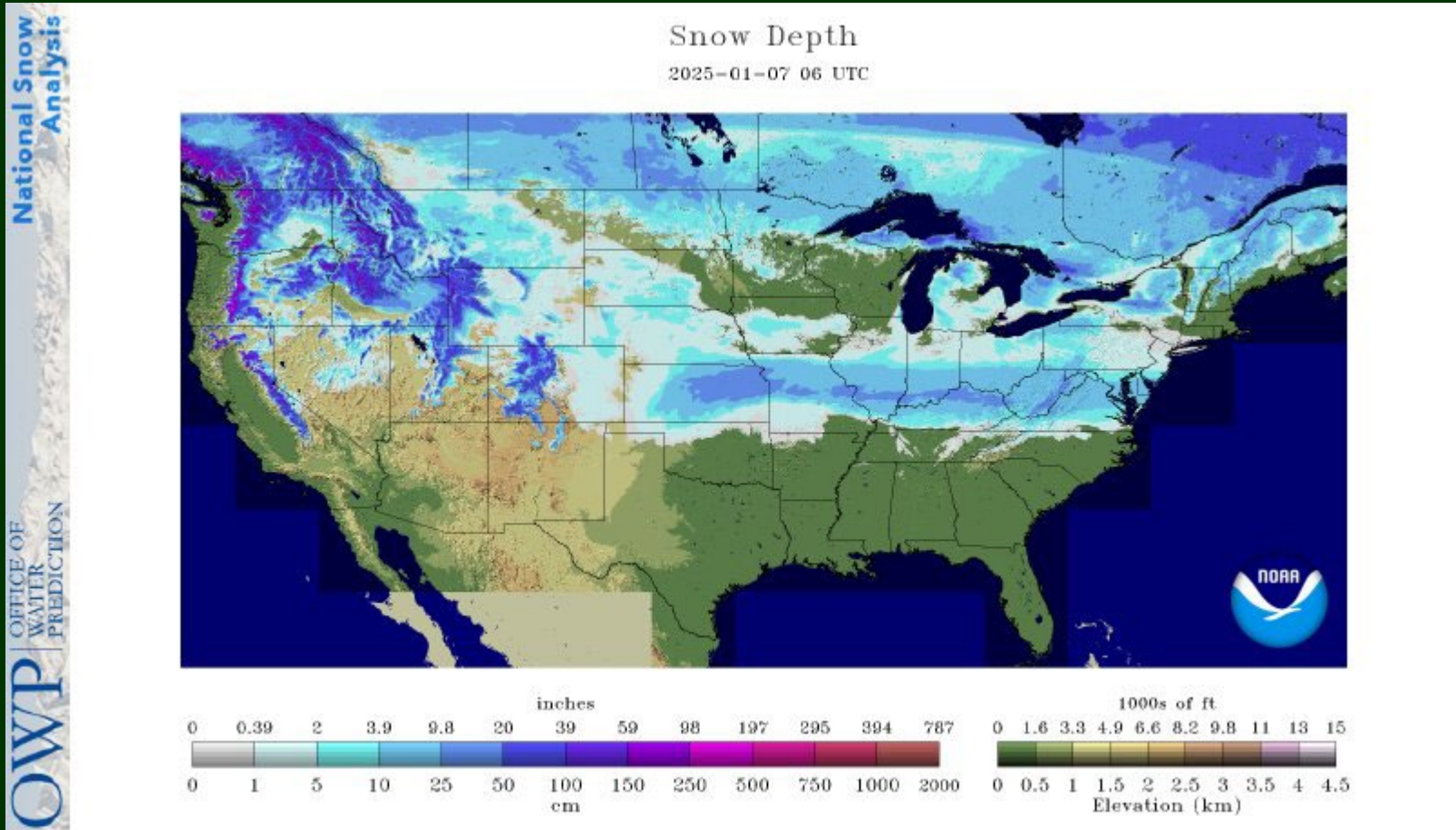
# Snowfall

Accumulated Snowfall: Percent of Mean  
December 1, 2024 to January 7, 2025



- Most locations in the north central region are experiencing below-average snowfall this far into the winter season.
  - Some regions are <25% of normal
- For the southern portions of the region the recent winter storm put accumulated snowfall totals  $\geq 125\%$  of normal.
- Lack of snow does not equate with dry in all places as rains have occurred.

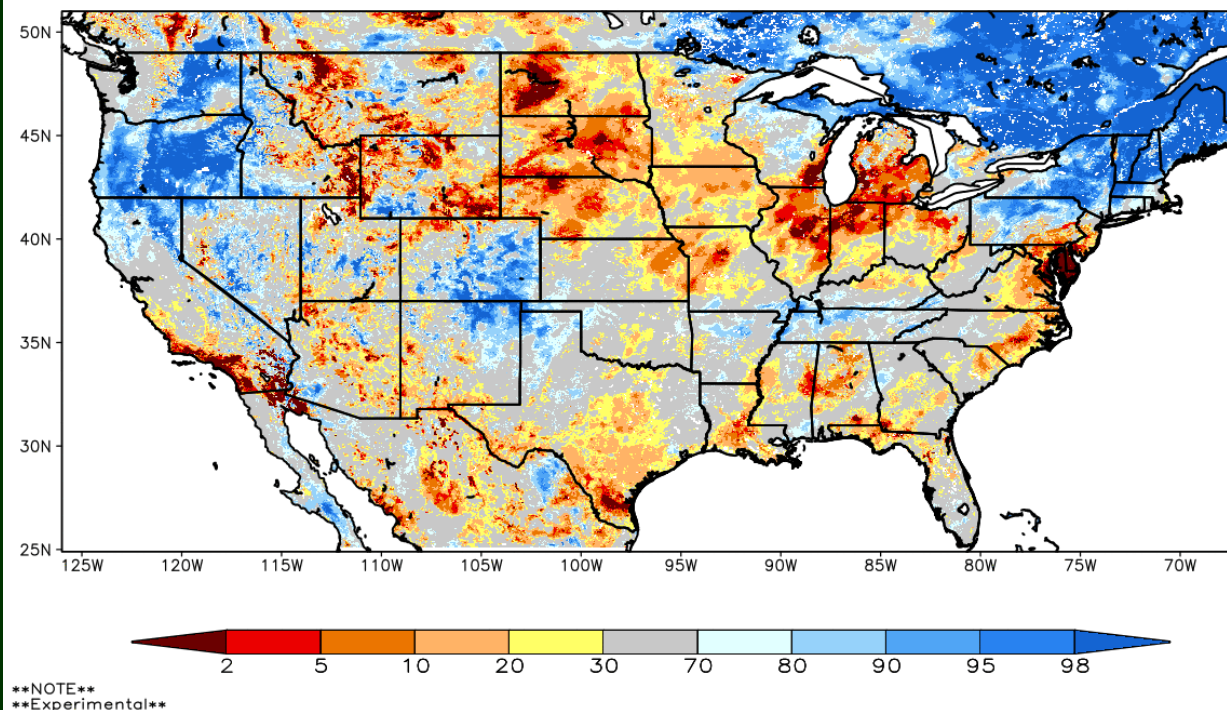
# Snow Depth



Recent winter storm tracks are visible from KS to OH. Minimal snow depth stretching from ND/SD to WI.

# Soil Moisture

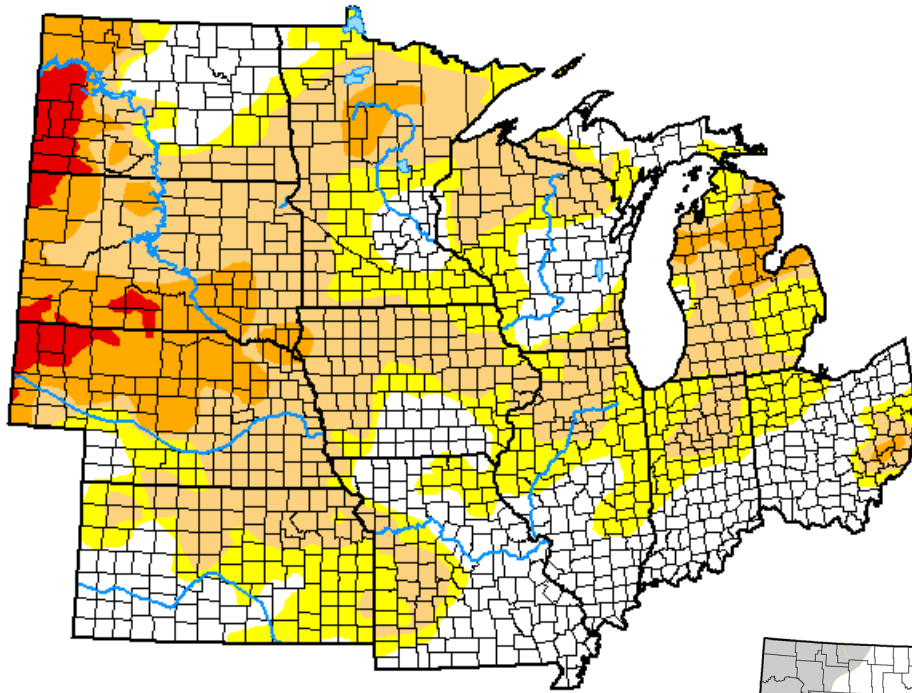
SPoRT-LIS 0-100 cm Soil Moisture percentile valid 07 Jan 2025



Conditions remain dry for the majority of the region.



# US Drought Monitor

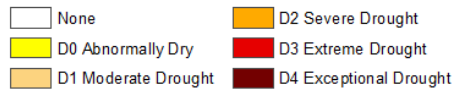


**December 31, 2024**  
 (Released Wednesday, Jan. 1, 2025)  
 Valid 7 a.m. EST

Drought Conditions (Percent Area)

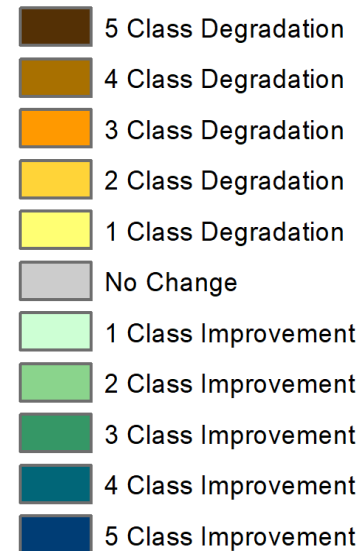
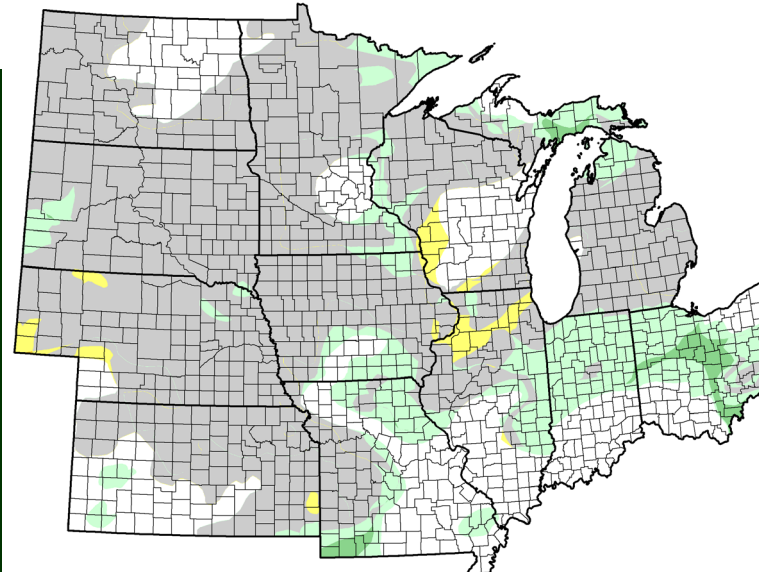
	None	D0	D1	D2	D3	D4
<b>Current</b>	28.71	23.68	33.15	11.78	2.68	0.00
<b>Last Week</b> 12-24-2024	26.41	20.95	36.78	13.30	2.56	0.00
<b>3 Months Ago</b> 10-01-2024	18.32	46.64	26.11	7.47	1.02	0.43
<b>Start of Calendar Year</b> 01-02-2024	37.52	23.94	21.63	13.15	3.75	0.02
<b>Start of Water Year</b> 10-01-2024	18.32	46.64	26.11	7.47	1.02	0.43
<b>One Year Ago</b> 01-02-2024	37.52	23.94	21.63	13.15	3.75	0.02

Intensity:



- One-third of the region is in D1 or more moderate drought.
- Eastern portions of the region seeing some 1 class improvement.

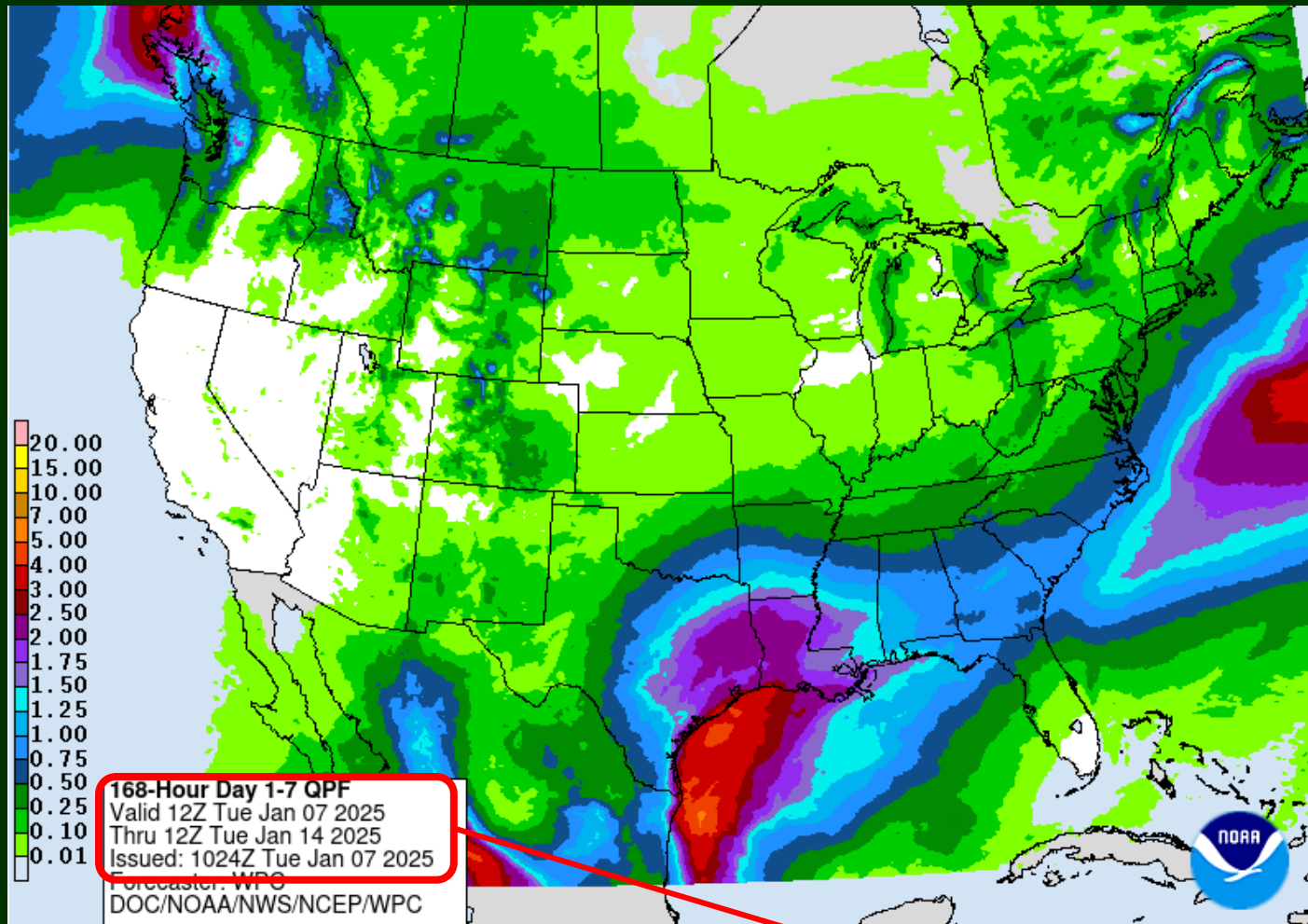
**12/31/24  
 compared to  
 12/03/24**



# Assorted Ag Issues

- Some soil moisture recovery, though that is now limited by frozen soils north.
- Frost depths increasing but nothing of concern yet.
- Large snows in the south likely caused some livestock issues.

# 1-7 Day Precip Forecast



- Precip forecasted for most but expect totals to be relatively low.

**Forecast for 01/07/25 thru 01/14/25**  
(12Z = 7am CDT)

# Temperature Outlook

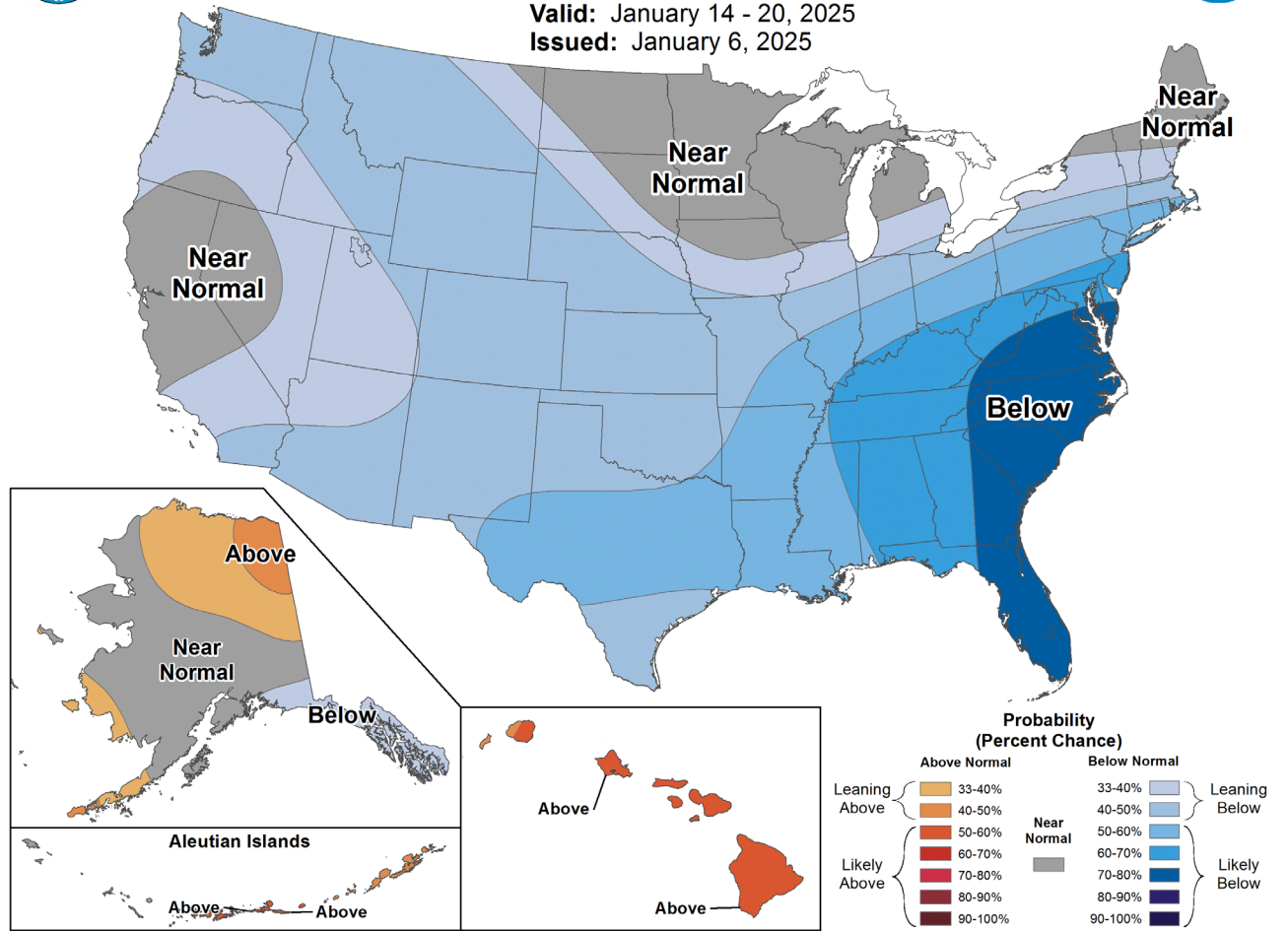


## 8-14 Day Temperature Outlook



Valid: January 14 - 20, 2025

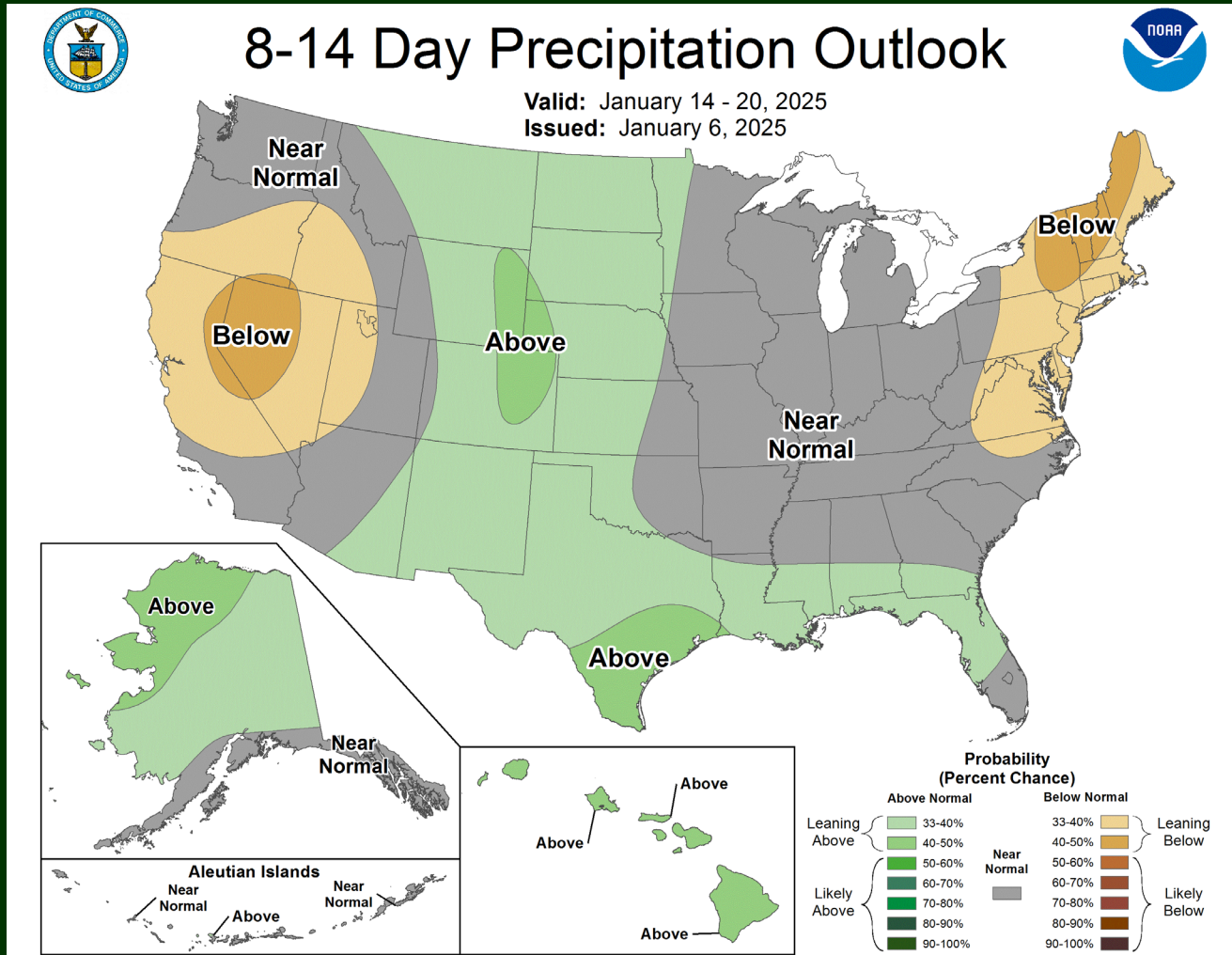
Issued: January 6, 2025



Temperatures probabilities near normal or leaning below average.



# Precipitation Outlook



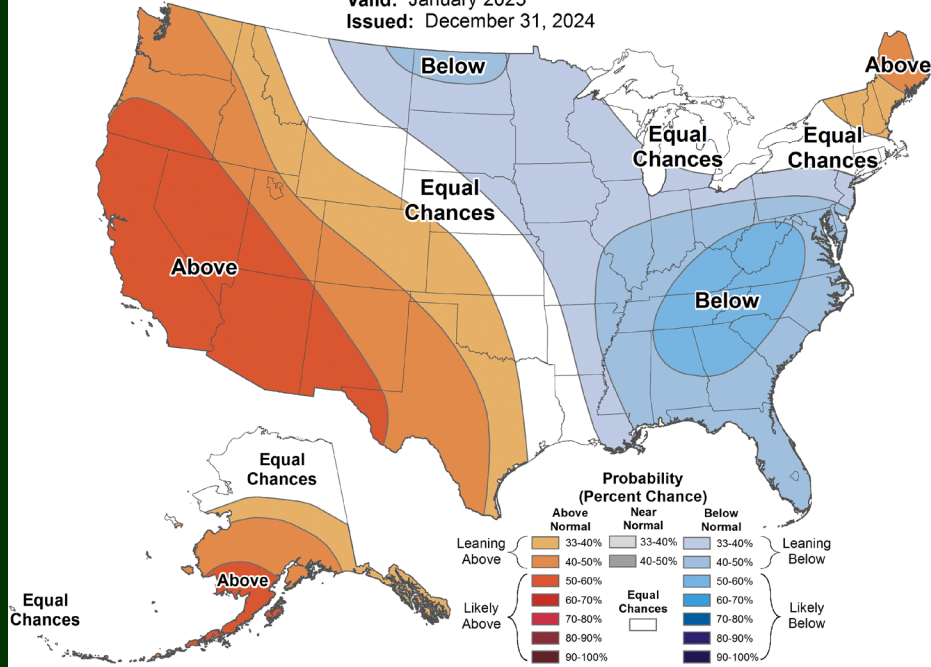
Leaning to above precipitation for W area and near normal for the E.

# 1-Month Outlook



## Monthly Temperature Outlook

Valid: January 2025  
Issued: December 31, 2024

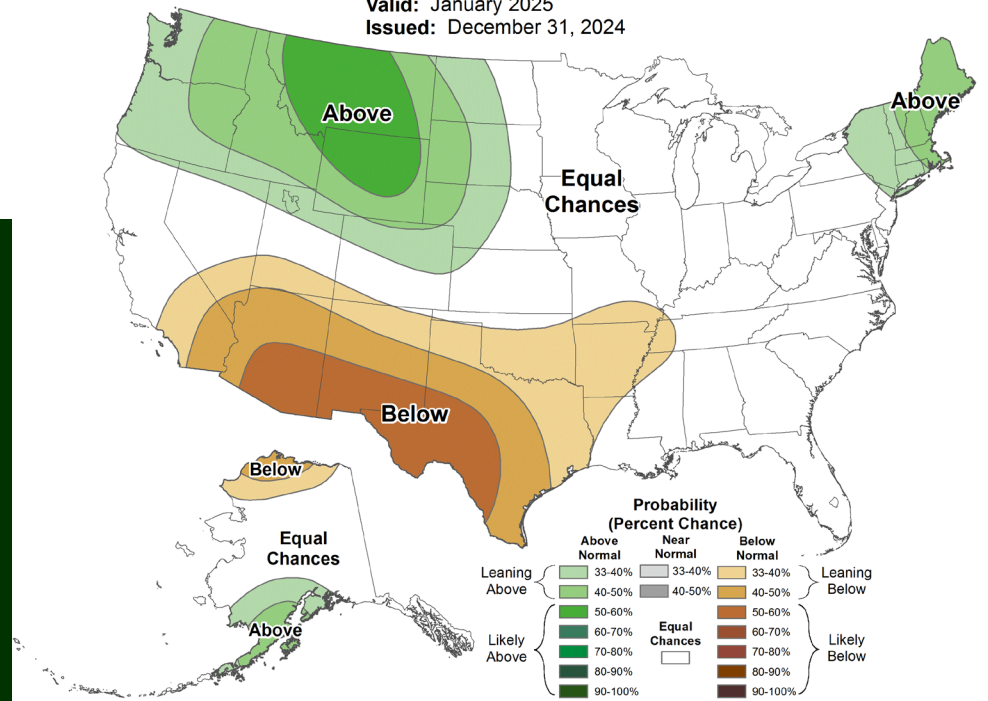


- Leaning to below temperatures from ND/MN/WI though OH/MO.
- Equal chances of above/below temperatures NE/KS and northern MI.
- Equal chances for above or below normal precipitation for most of the region.



## Monthly Precipitation Outlook

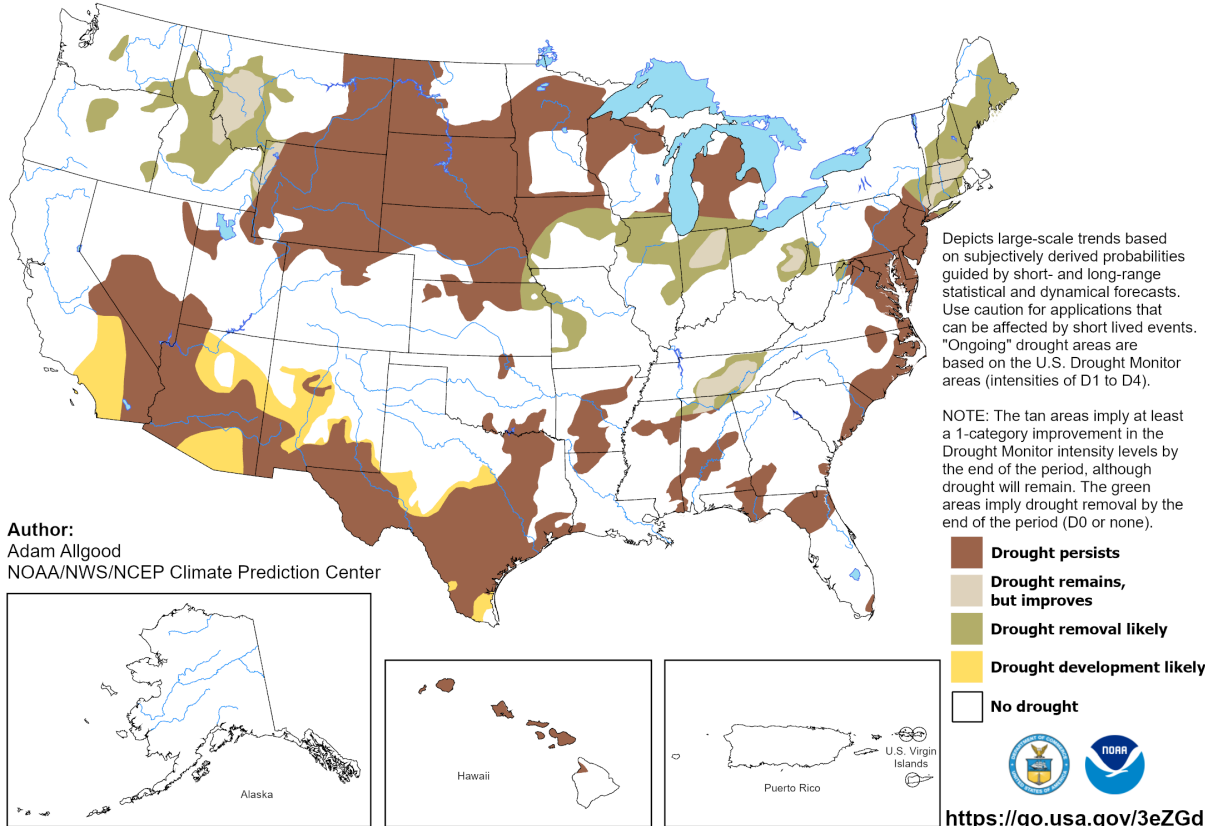
Valid: January 2025  
Issued: December 31, 2024



# Drought in the Midwest/Plains

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

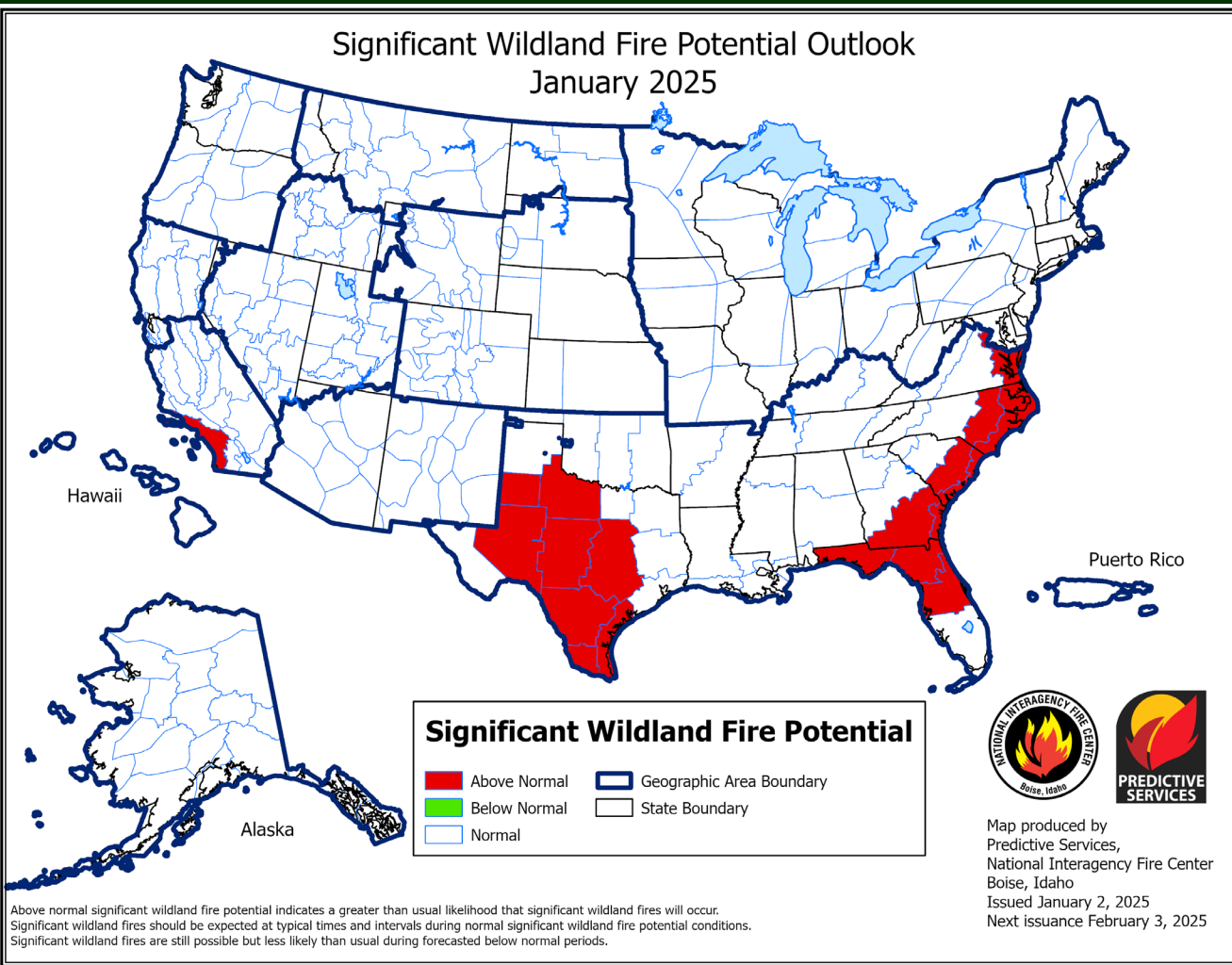
Valid for January 2025  
Released December 31, 2024



- Drought likely to persist through much of the northern and western regions.
- Drought removal or improvements likely in IA, IL, IN and OH. (better precipitation chances).
- Overall smaller precipitation in winter north/west limits drought recovery potential.

# Fire in the Midwest/Plains

Significant Wildland Fire Potential Outlook  
January 2025



- Normal fire potential for the region in January.



# La Niña Watch

## Official NOAA CPC ENSO Probabilities (issued December 2024)

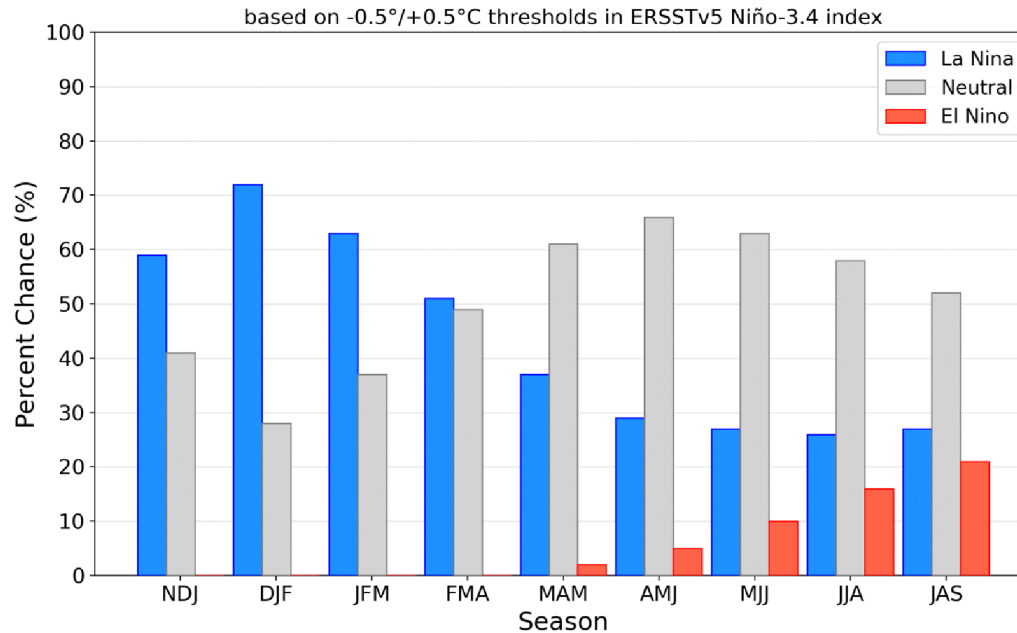


Figure 7. Official ENSO probabilities for the Niño 3.4 sea surface temperature index ( $5^{\circ}\text{N}$ - $5^{\circ}\text{S}$ ,  $120^{\circ}\text{W}$ - $170^{\circ}\text{W}$ ). Figure updated 12 December 2024.

Transition to La Niña slightly delayed again, expected to be short duration and weakened strength.

# Summary

- Near average precipitation (+/- 1.5"), with little to no drought improvements for most of the region.
  - Except in IA though northern OH → drought has improved a little and removal of drought or further improvement is likely.
- Temperatures in the last 30-days were warmer than average (+4°F) across the region (despite recent colder air).
- The remainder of the month has slightly better chances for below normal temperatures with equal chances of above/below normal precipitation.
- La Niña transition still expected but weak and short.

# Next MAC-T Monthly Call

Next Call  
**TBD**