



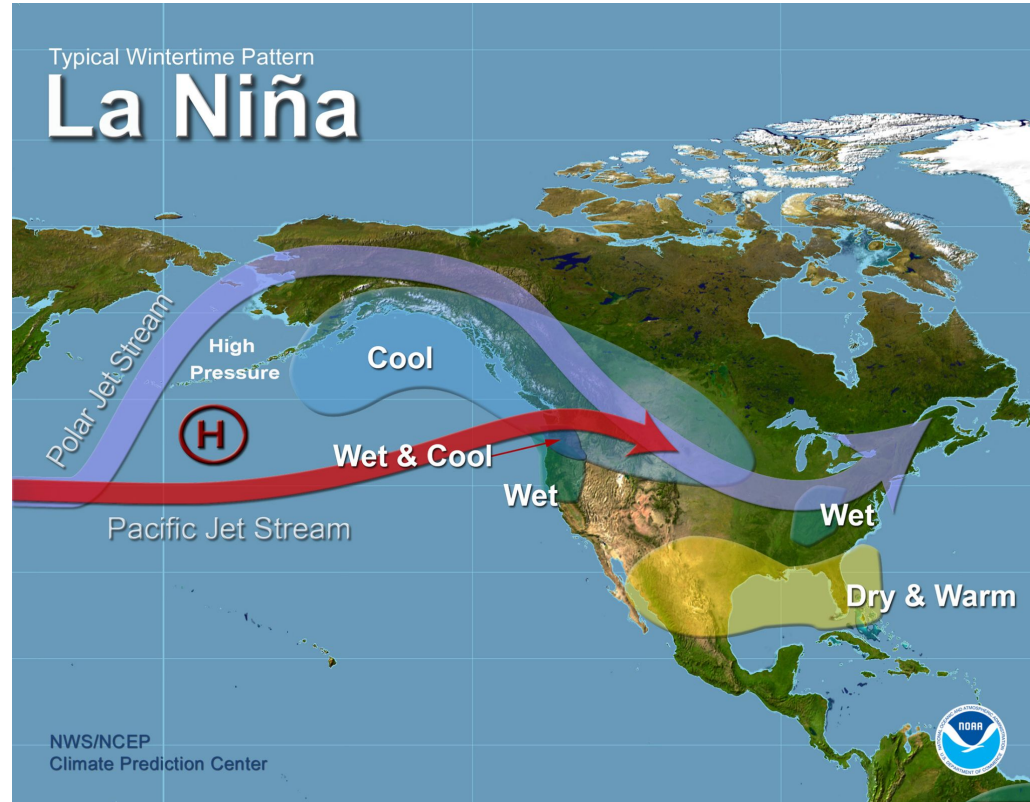
# Winter Outlook 2024-25

Mid October Update for North Dakota

October 17, 2024  
4:00 PM

## Key Messages

- **La Niña** conditions are expected to emerge during the fall season, and are likely (75% chance) to continue through the winter.
- There is a high probability (75% chance) that this is a weak and short-lived La Niña event. During weak events, odds are lower that the traditional La Niña pattern will dominate the winter.
- La Niña events typically favor colder and slightly wetter conditions during the winter across North Dakota. Ahead of La Niña winters, the fall season tends to be mild and dry, with an abrupt transition to winter-like temperatures in the late fall. As always, other climate features can cancel out the expected pattern.





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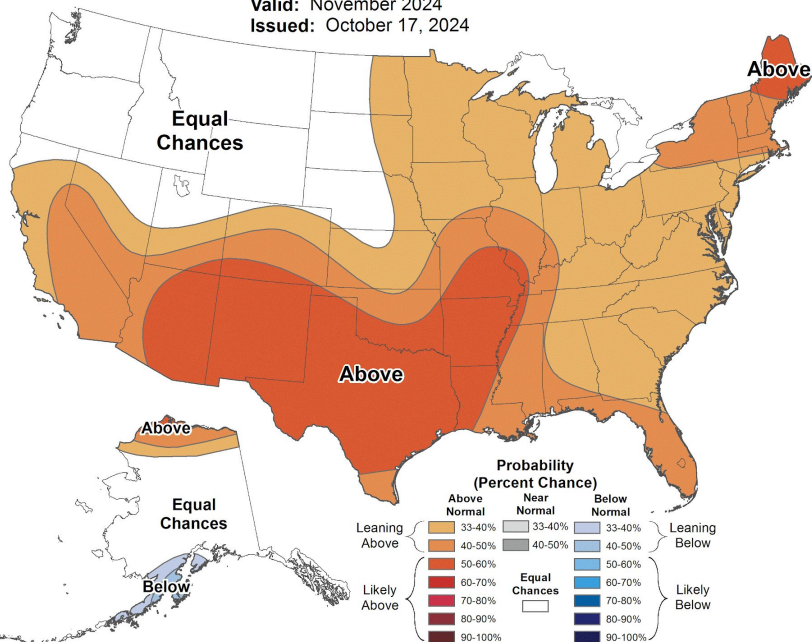
## Mid October Update for North Dakota



### Monthly Temperature Outlook



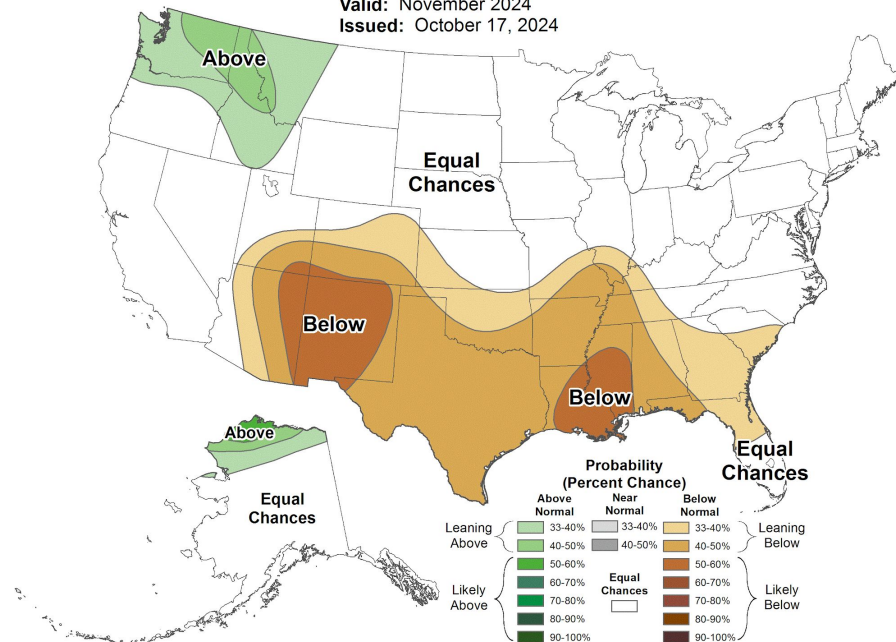
Valid: November 2024  
Issued: October 17, 2024



### Monthly Precipitation Outlook



Valid: November 2024  
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There is a slight tilt (33-40% chance) towards above normal temperatures in November across eastern North Dakota, with no strong signal across the rest of the state. There are equal chances for above, below, or near normal precipitation. La Niña falls are typically mild before a sharp drop into colder temperatures in the late fall.





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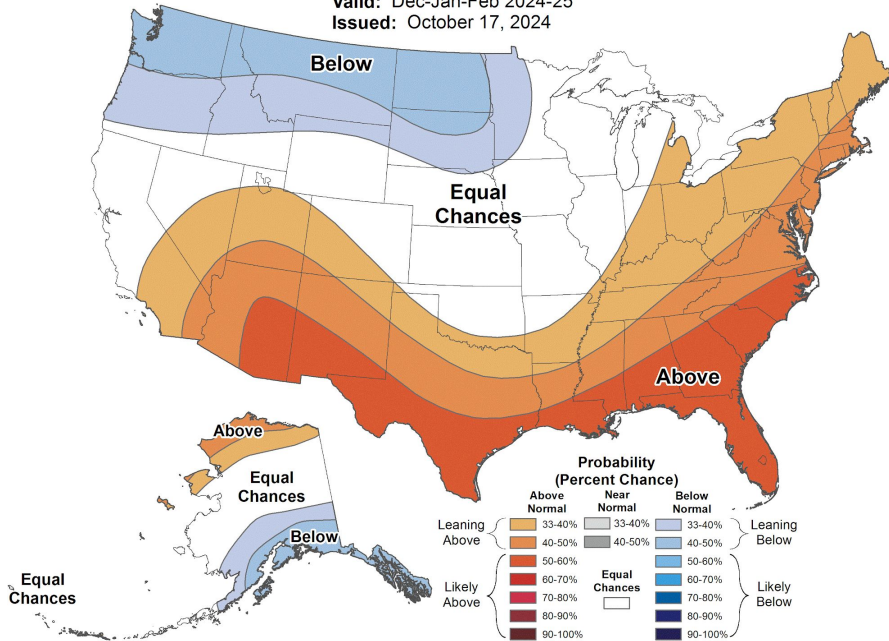
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### Winter Temperature Outlook



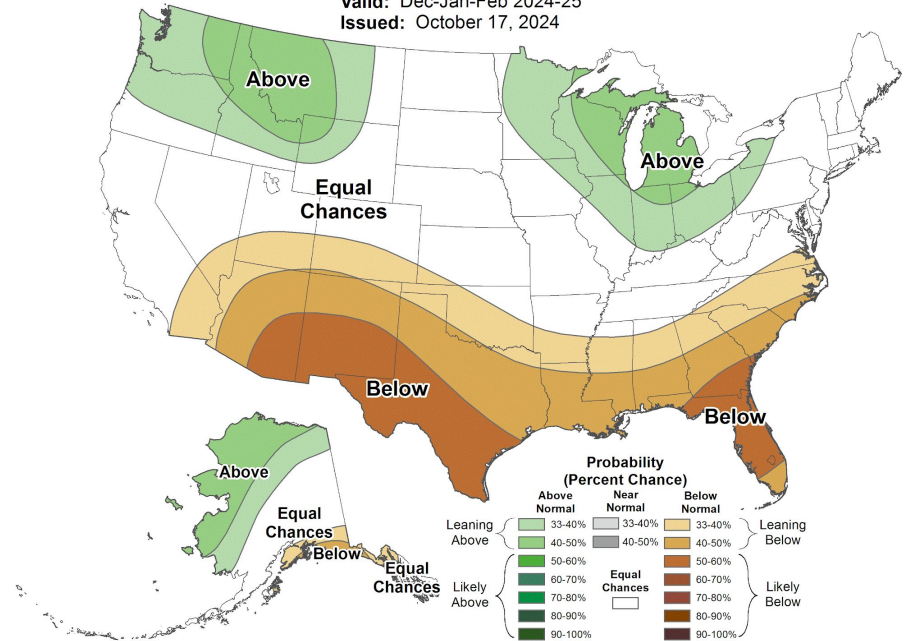
Valid: Dec-Jan-Feb 2024-25  
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### Winter Precipitation Outlook



Valid: Dec-Jan-Feb 2024-25  
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Due to the expected La Niña conditions, this winter is favored to have below normal temperatures (~45% chance). This does not mean there won't be any mild periods in the winter, or that winter won't end up warmer than normal overall (20% chance). Colder temperatures overall would favor more events that are only snow compared to the mixed precipitation events we had last winter.



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

National Weather Service  
Bismarck, ND





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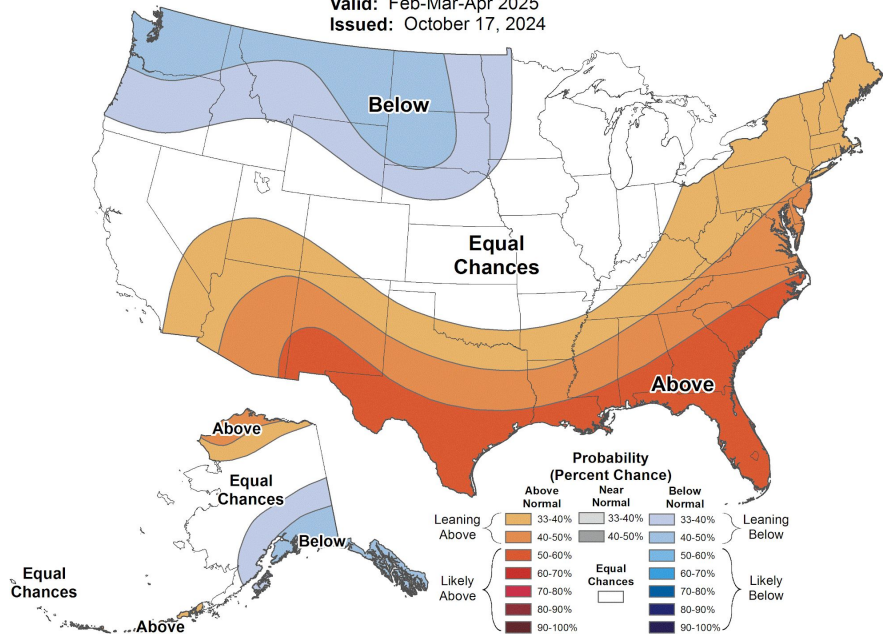
## Mid October Update for North Dakota



### FMA Temperature Outlook



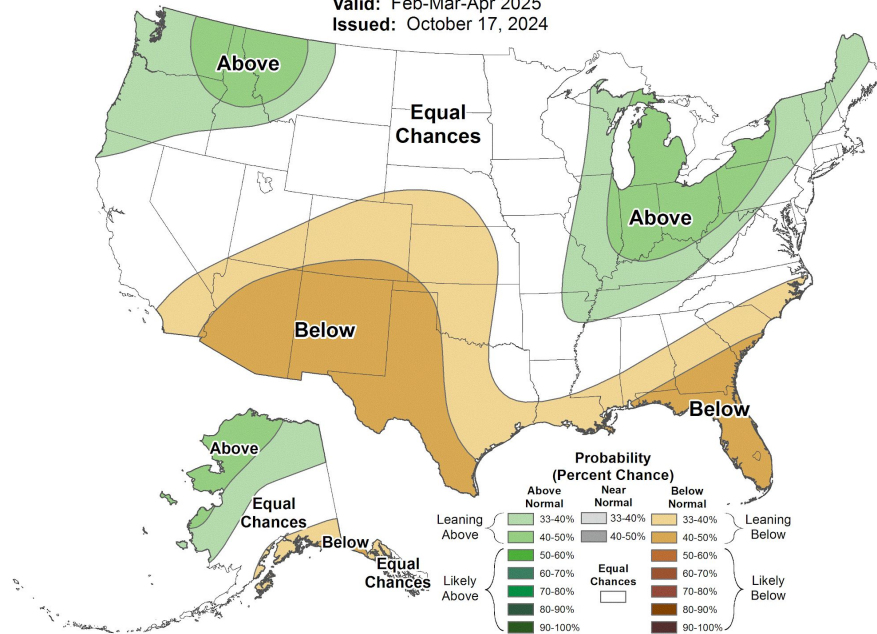
Valid: Feb-Mar-Apr 2025  
Issued: October 17, 2024



### FMA Precipitation Outlook



Valid: Feb-Mar-Apr 2025  
Issued: October 17, 2024



The signal for below normal temperatures continues during the late winter and through much of the spring (February, March, and April). Long term trends suggest spring is cooling across North Dakota, which gives additional confidence that this period is favored for colder than normal temperatures, since the long term trend and the expected La Niña signal result in the same outcome.





### What are we expecting?

#### Temperature

- Near normal temperatures through the rest of fall
- Transition to winter-like temperatures sometime from the second half of November to December
- Normal to below normal temperatures January through April

#### Precipitation

- First measurable snow not likely until November, especially south
- Stronger signal for near to above normal precipitation for the second half of the winter, although stats suggest we often get a December storm in this pattern
- Based on previous winter seasons and the forecast pattern, expect slightly above normal seasonal snowfall