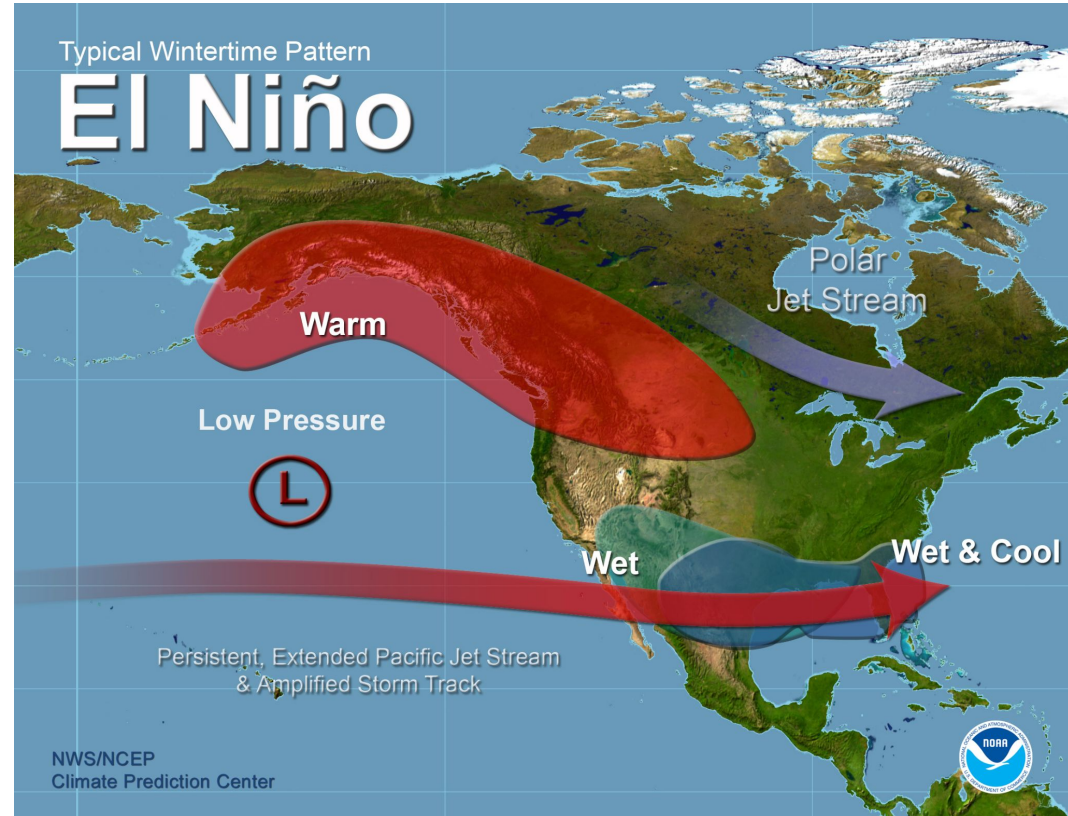




Key Messages

- **El Niño** conditions are ongoing, with a greater than 95% chance of it lasting through the Northern Hemisphere winter.
- Confidence is increasing (65% chance) in this becoming a strong El Niño event. This event has a 20% chance in becoming **historically** strong.
- El Niño events typically favor warmer and drier conditions during the winter across North Dakota, although other climate features can cancel out this impact. The autumn season tends to be near normal with a gradual (not abrupt) transition to winter-like temperatures.





Winter Outlook 2023-24

August 31, 2023

2:26 PM

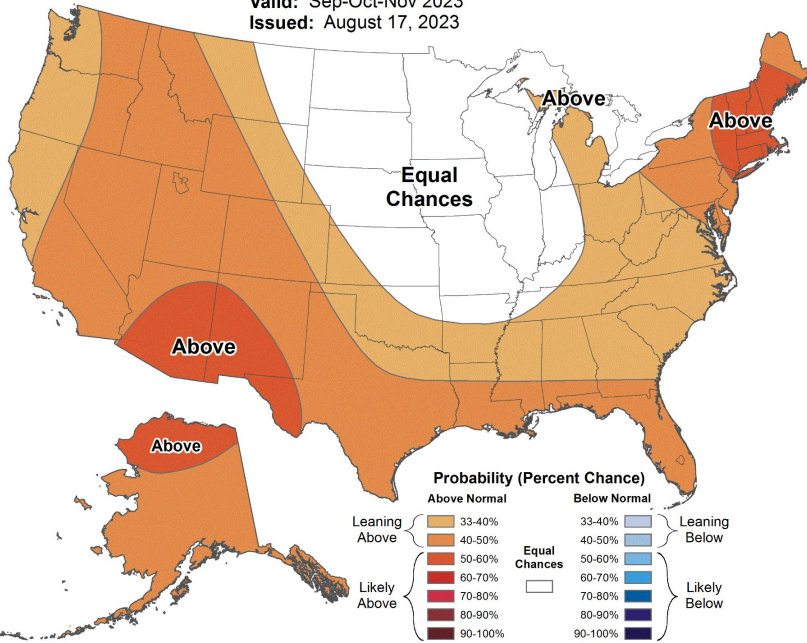
Late August Update



Autumn Temperature Outlook



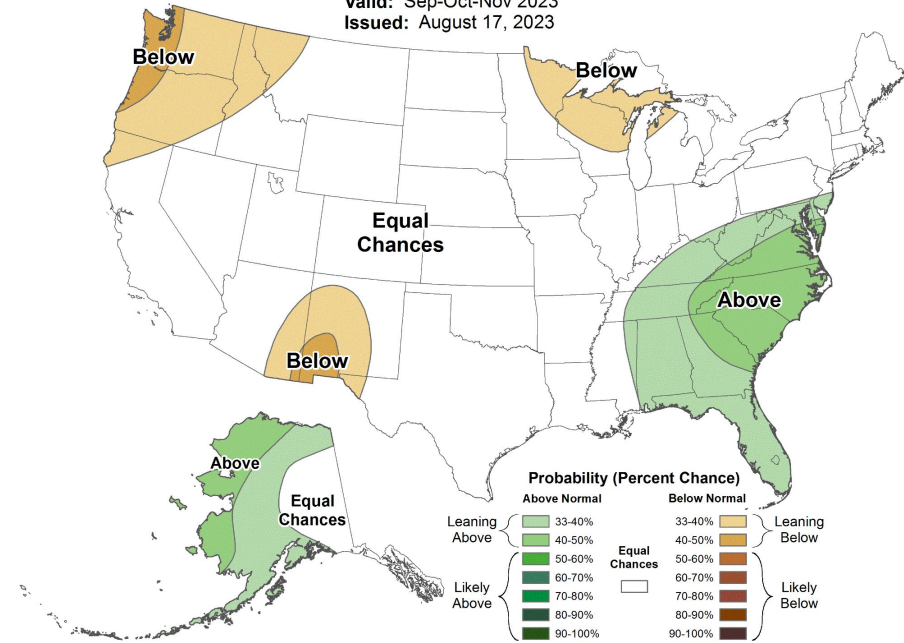
Valid: Sep-Oct-Nov 2023
Issued: August 17, 2023



Autumn Precipitation Outlook



Valid: Sep-Oct-Nov 2023
Issued: August 17, 2023



There are equal chances for above, below, or near normal temperatures and precipitation this autumn. La Niña autumns, which we had the past 3 years, are typically mild before a sharp drop into colder temperatures for winter. In comparison, El Niño autumns are favored to be closer to normal, before a more gradual transition into winter temperatures.



Winter Outlook 2023-24

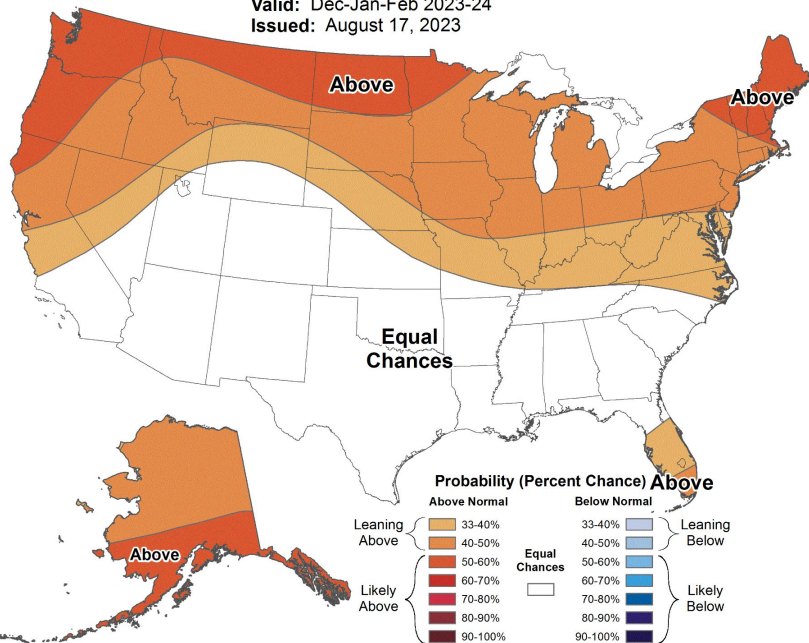
Late August Update



Winter Temperature Outlook



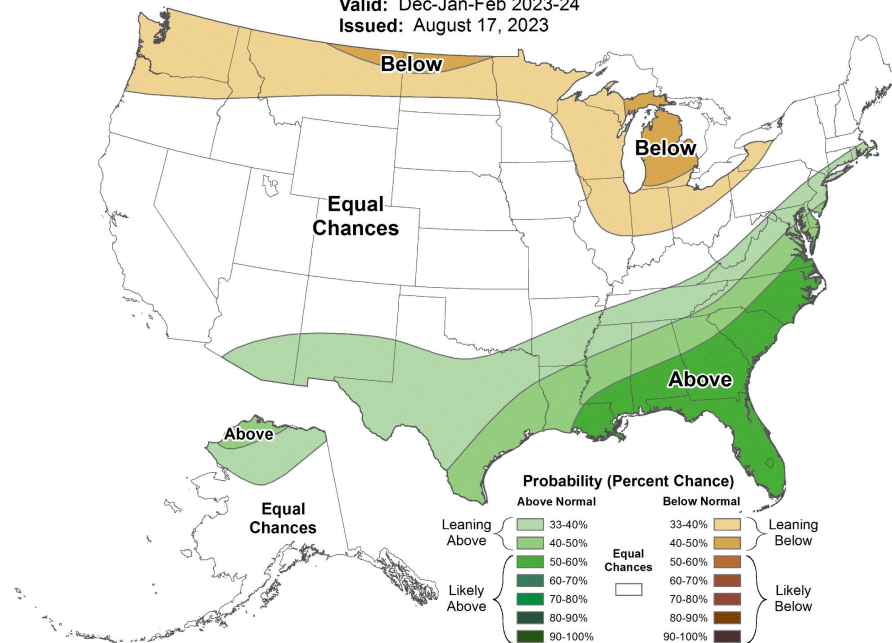
Valid: Dec-Jan-Feb 2023-24
 Issued: August 17, 2023



Winter Precipitation Outlook



Valid: Dec-Jan-Feb 2023-24
 Issued: August 17, 2023



Due to the ongoing El Niño, this winter is favored to have above average temperatures (~56% chance). However, we will still have cold periods during the winter, and it is possible that the entire season ends up below average (11% chance). There is a slight tilt towards below normal precipitation (33-43% chance), but it only takes one big snowstorm to significantly increase our seasonal snow total.

