

Western Pacific Oscillation

in the US

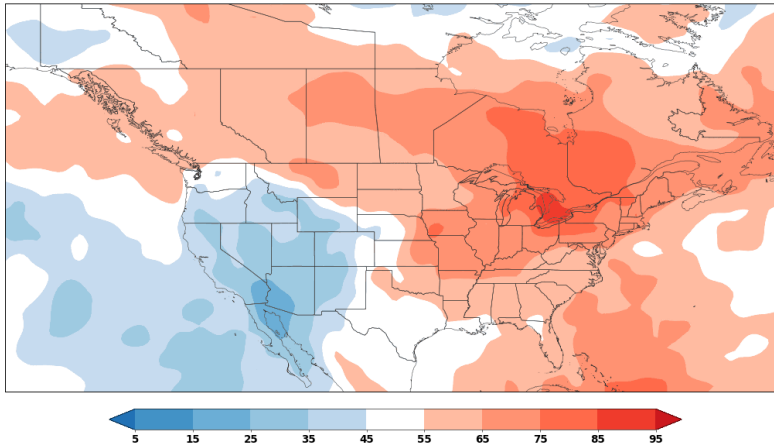


Positive Phase - Winter

Below-normal surface pressure over the Bering Sea and high pressure northwest of Hawaii

Percent of Years Having Above-Trend DEC-FEB 2m Temperature

1951 1952 1954 1959 1963 1965 1966 1986 1987 1988
1998 2000 2006 2007 2015 2018 2019 2020 2022 2023

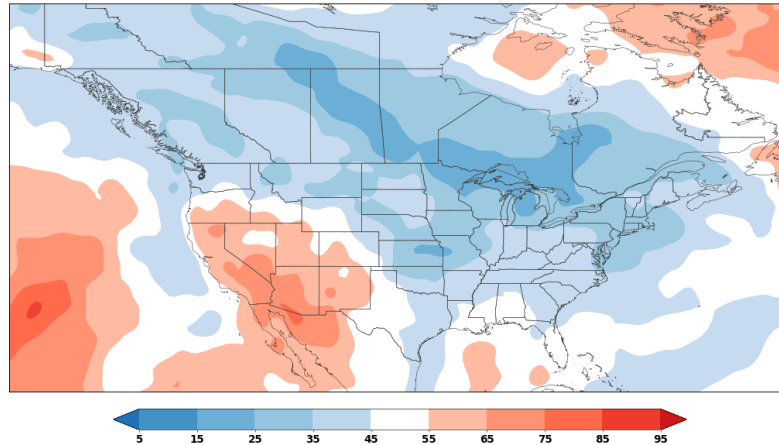


Negative Phase - Winter

Above-normal surface pressure over the Bering Sea and low pressure northwest of Hawaii

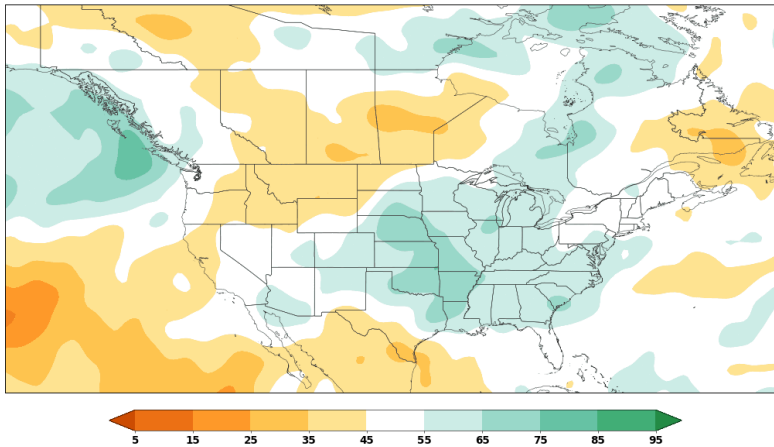
Percent of Years Having Above-Trend DEC-FEB 2m Temperature

1955 1956 1961 1962 1964 1967 1973 1979 1980 1981
1983 1990 1995 1996 2004 2009 2010 2013 2014 2021



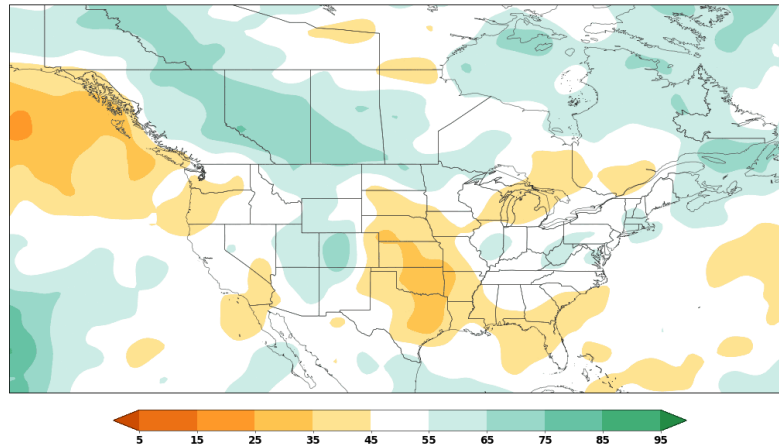
Percent of Years Having Above-Normal DEC-FEB Precipitation (ERA5 Reanalysis)

1951 1952 1954 1959 1963 1965 1966 1986 1987 1988
1998 2000 2006 2007 2015 2018 2019 2020 2022 2023



Percent of Years Having Above-Normal DEC-FEB Precipitation (ERA5 Reanalysis)

1955 1956 1961 1962 1964 1967 1973 1979 1980 1981
1983 1990 1995 1996 2004 2009 2010 2013 2014 2021



More Heat in the East & North

Less Heat on the West Coast

More Rain in the Plains & East

Less Heat in the East & North

More Heat in the West & Southwest

Less Rain in the Plains & South

The WPO is only one factor in a complex system that influences the US climate. Long-range forecasts provided in the WCS Monthly Reports are the best guide to the season ahead.