

Office of the Washington State Climatologist

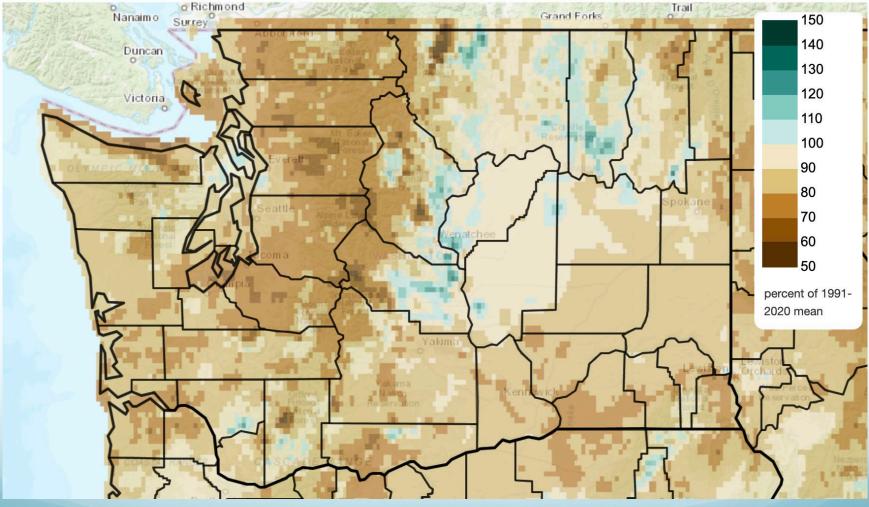
Current Conditions and Seasonal Outlook

Nick Bond & Karin Bumbaco Office of the Washington State Climatologist Cooperative Institute for Climate, Ocean, and Ecosystem Studies University of Washington 31 July 2023

## Water Year Precipitation: Percent of Mean

#### **Total Precipitation Anomaly, Since Oct 1st**

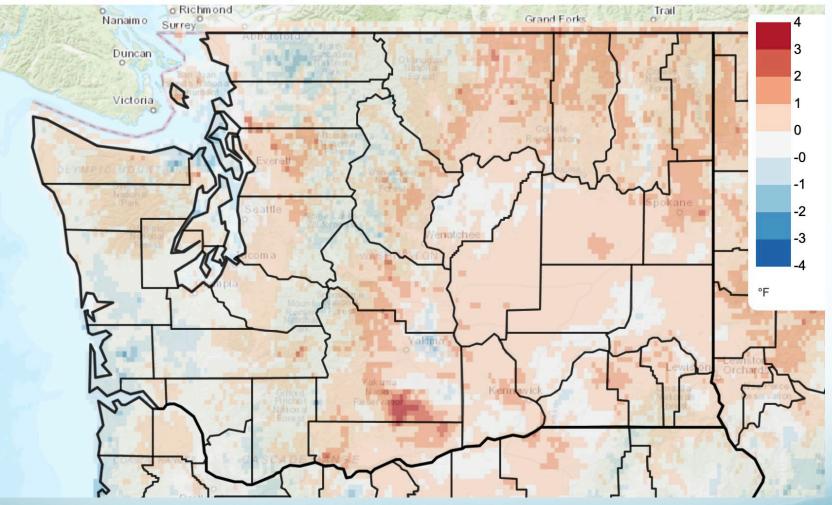
2022/10/01 - 2023/07/25



(Climate Toolbox)

# Mean Daily Temperature Anomaly: Since Jan

2023/01/01 - 2023/07/25



(Climate Toolbox)

# Last 90 Days

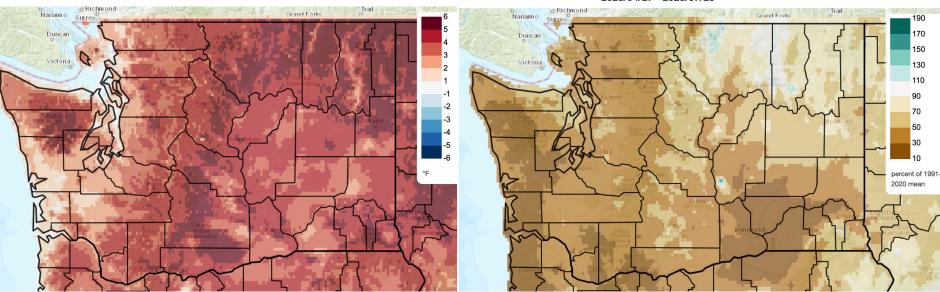
## Temperature

Mean Daily Temperature Anomaly, Last 90 Days

2023/04/27 - 2023/07/25

Total Precipitation Anomaly, Last 90 Days 2023/04/27 - 2023/07/25

Precipitation

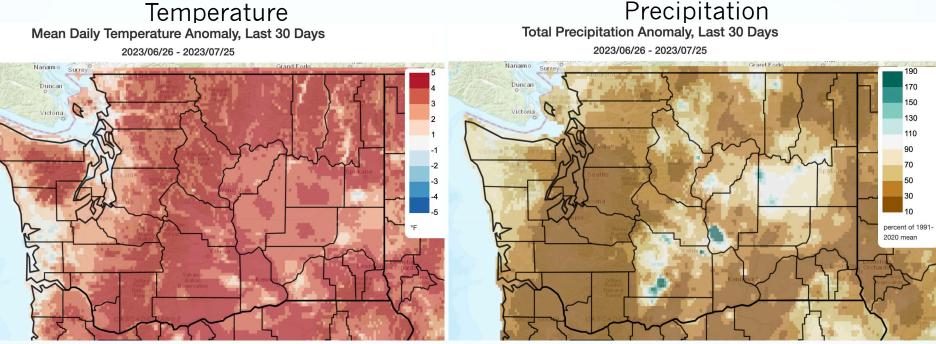


Climate Toolbox

- The temperatures over the last 90 days are in the 90<sup>th</sup> percentile\* for the entire state
- Precipitation totals are about 50% statewide, and in the lowest 10<sup>th</sup> percentile\* for all but portions of eastern WA

\*Records since 1979

# Last 30 Days

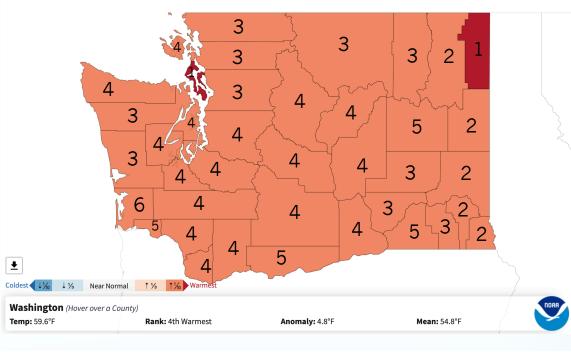


Climate Toolbox

- The warm temperatures over the last 30 days are in the 90<sup>th</sup> percentile or above\* for most of the state
- Precipitation totals continue to be below normal

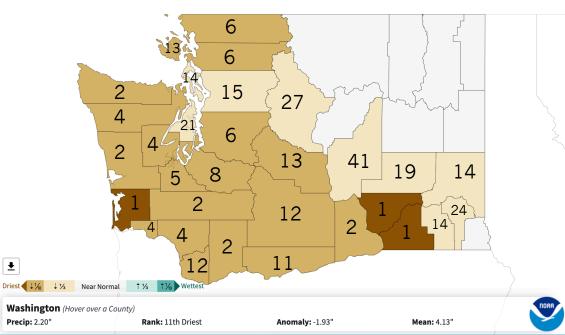
\*Records since 1979

# May-June 2023

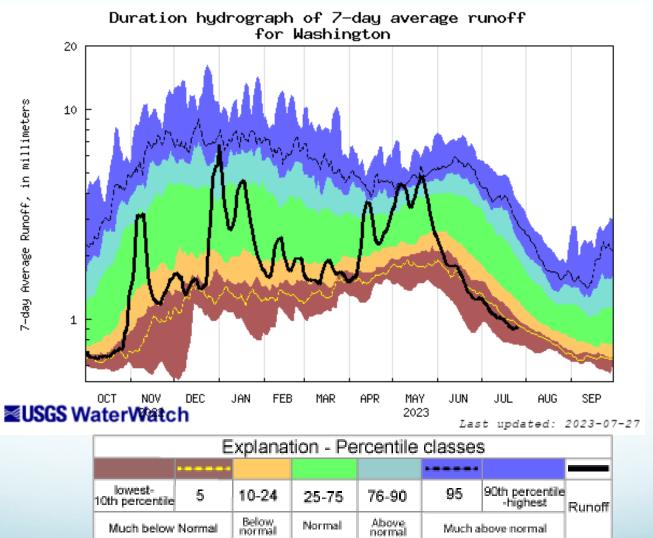


#### County Precipitation Rank (129 years)

May - June 2023



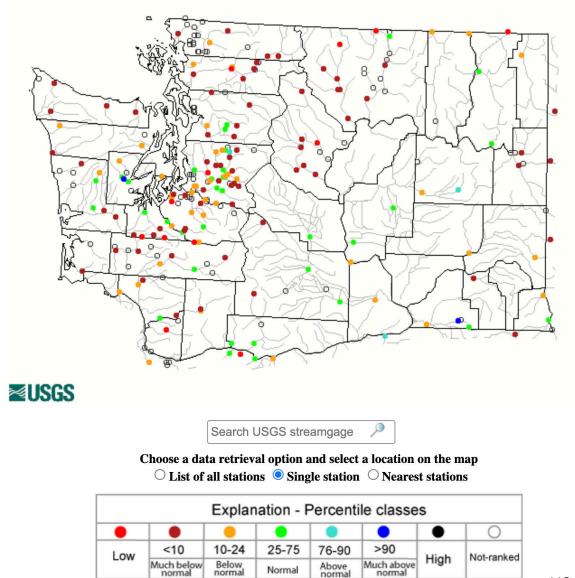
## Streamflows

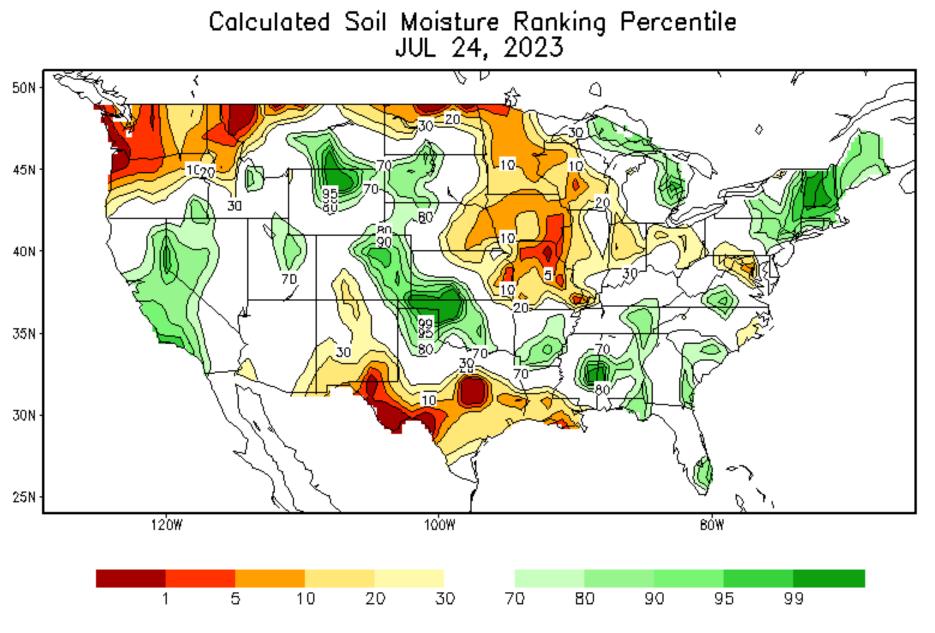


USGS

## Recent Streamflows: Percentile Classes

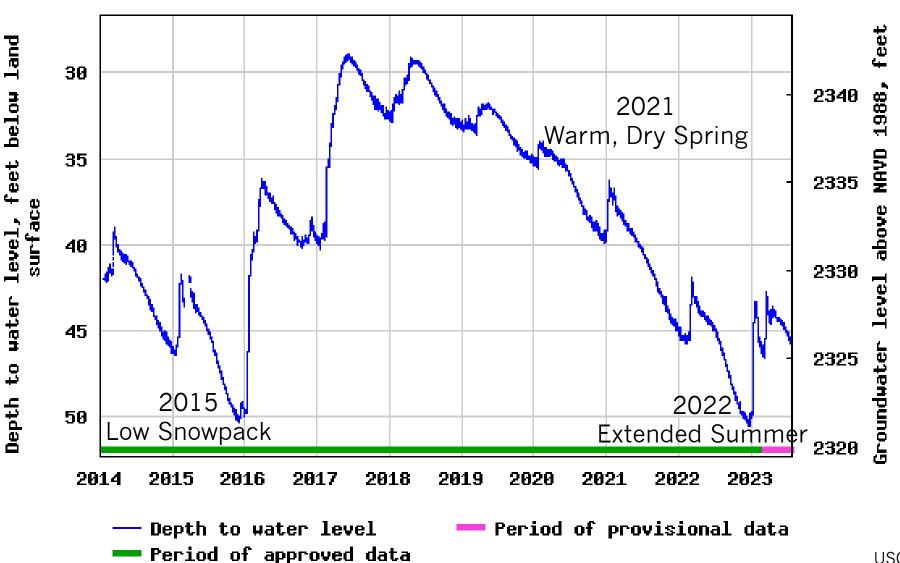
Tuesday, July 25, 2023





NOAA/Climate Prediction Center

## Monitoring Well near Davenport, WA



USGS 473442118162201 24N/36E-16A01

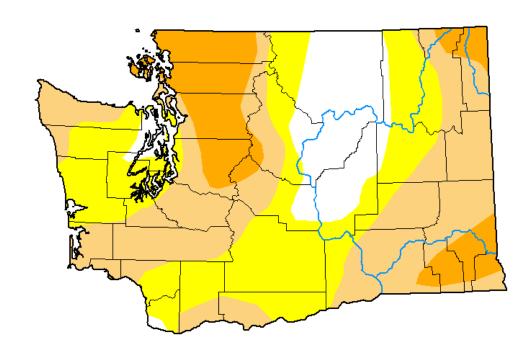
# U.S. Drought Monitor

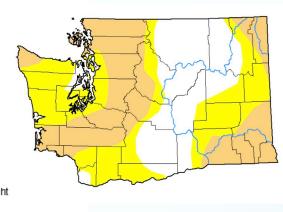
U.S. Drought Monitor Washington

July 25, 2023

(Released Thursday, Jul. 27, 2023) Valid 8 a.m. EDT

June 27, 2023





Intensity: None D0 Abnormally Dry D1 Moderate Drought D2 Severe Drought D3 Extreme 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

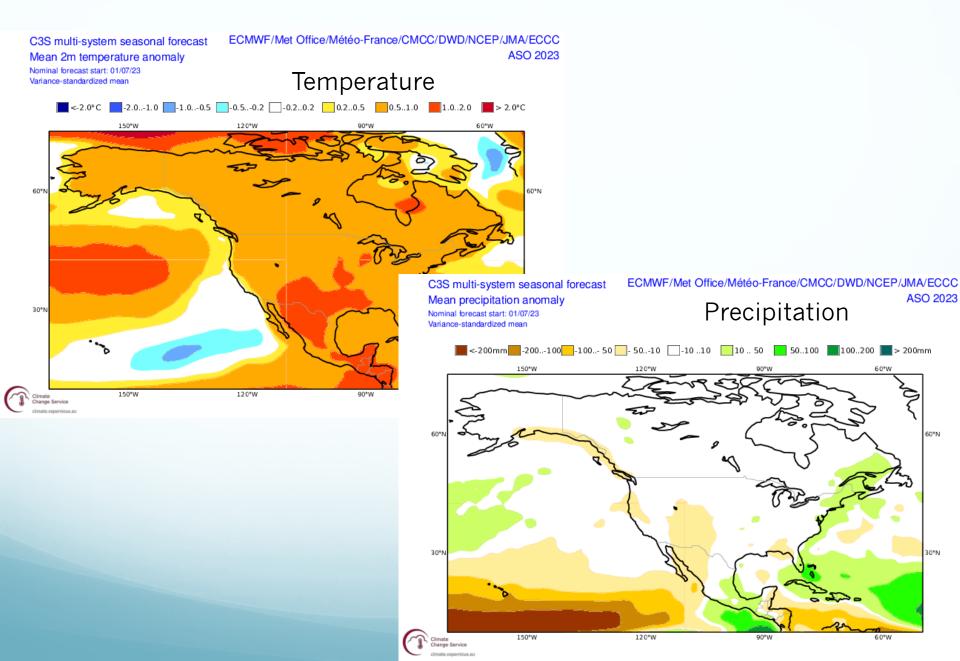
#### Author:

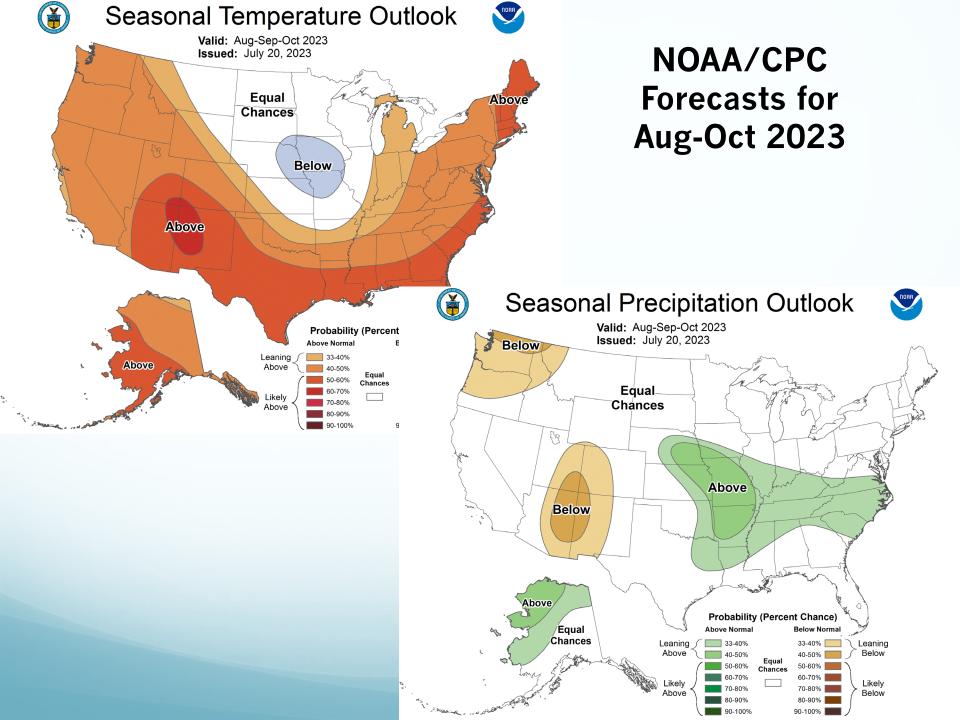
Brian Fuchs National Drought Mitigation Center

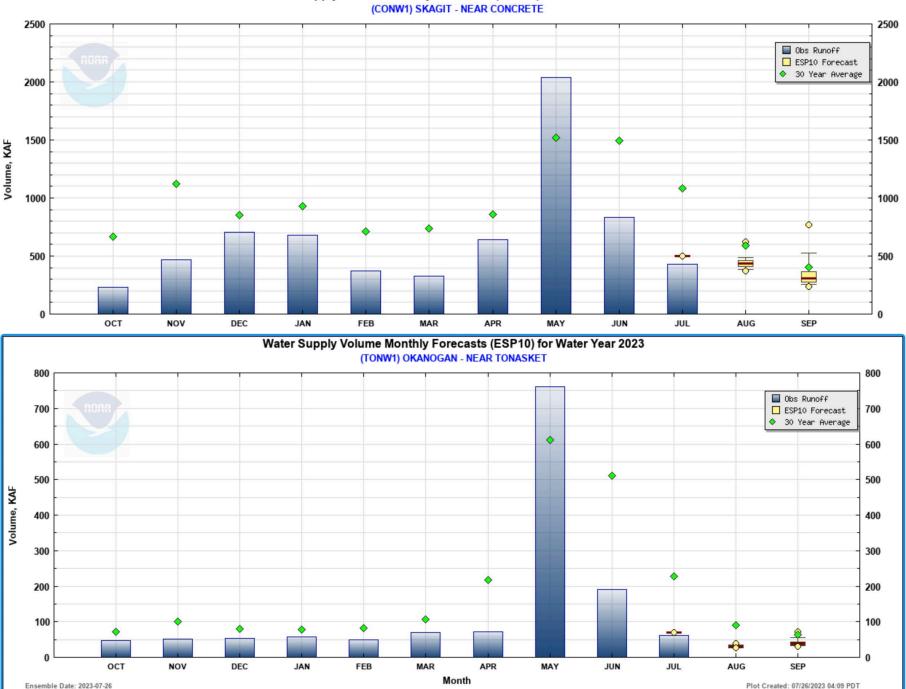


droughtmonitor.unl.edu

#### Climate models projecting a warm, but not extreme, late summer into fall

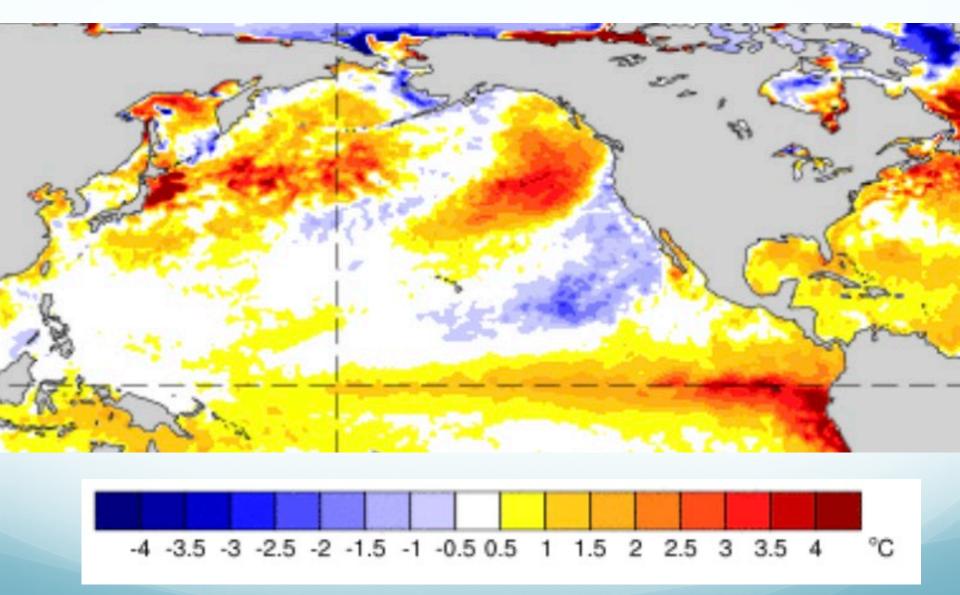


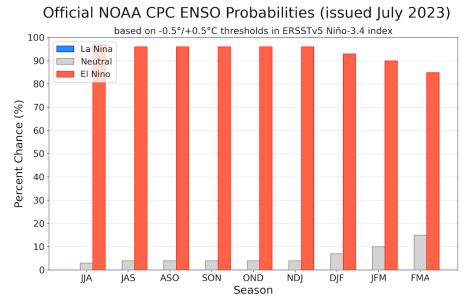




Water Supply Volume Monthly Forecasts (ESP10) for Water Year 2023

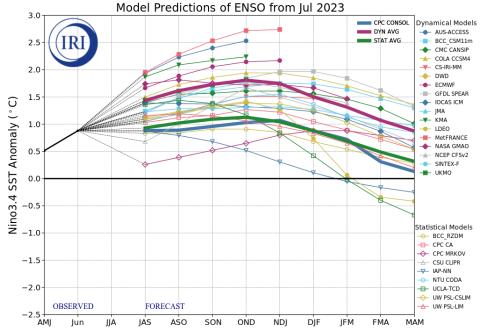
## Sea Surface Temperature Anomalies: 16-22 July 2023



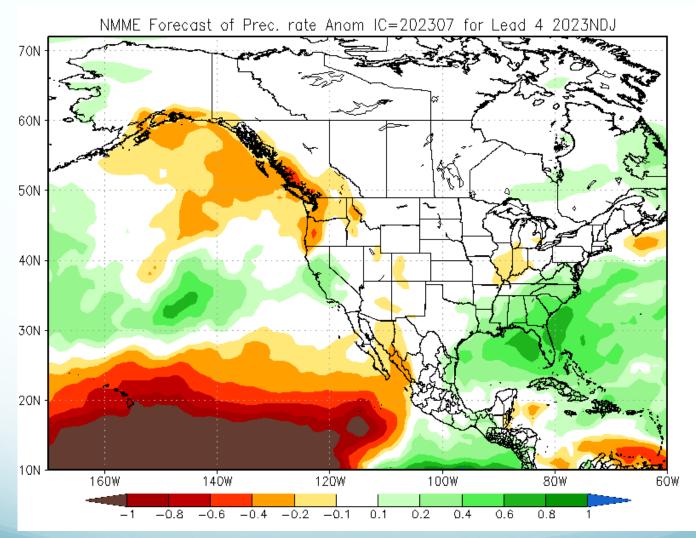


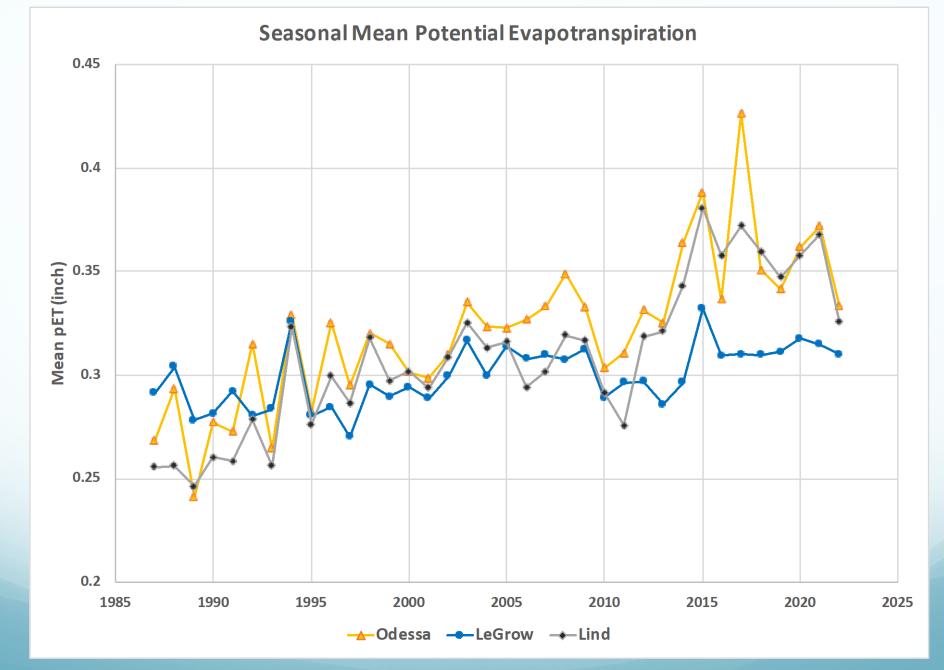
### El Niño during the upcoming fall and winter is essentially a sure thing

## The small number of winters with strong El Niño events have <u>not</u> been especially dry



## Nov 2023-Jan 2024 NMME Precipitation Forecast





# Summary

- Year-to-date temperatures have become greater than normal for most of WA state
- Averaged statewide, January-June precipitation has been 79% of normal (14<sup>th</sup> driest)
- The first half of summer has brought a continuation of the mostly warm and dry weather that began with a record warm May
- The remainder of summer into fall is apt be warm, and now also expected to be dry, relative to seasonal norms