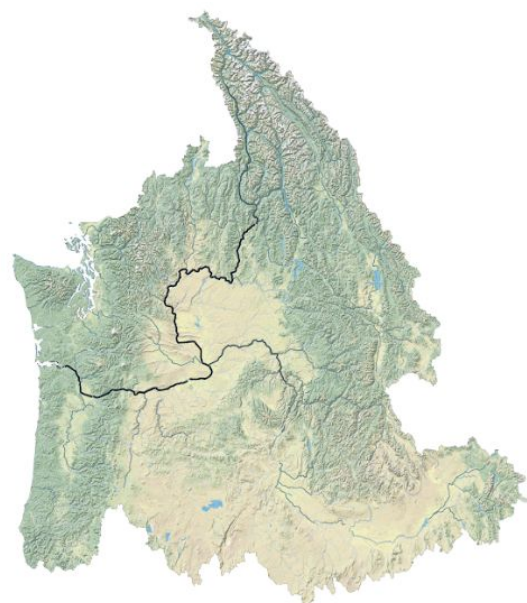


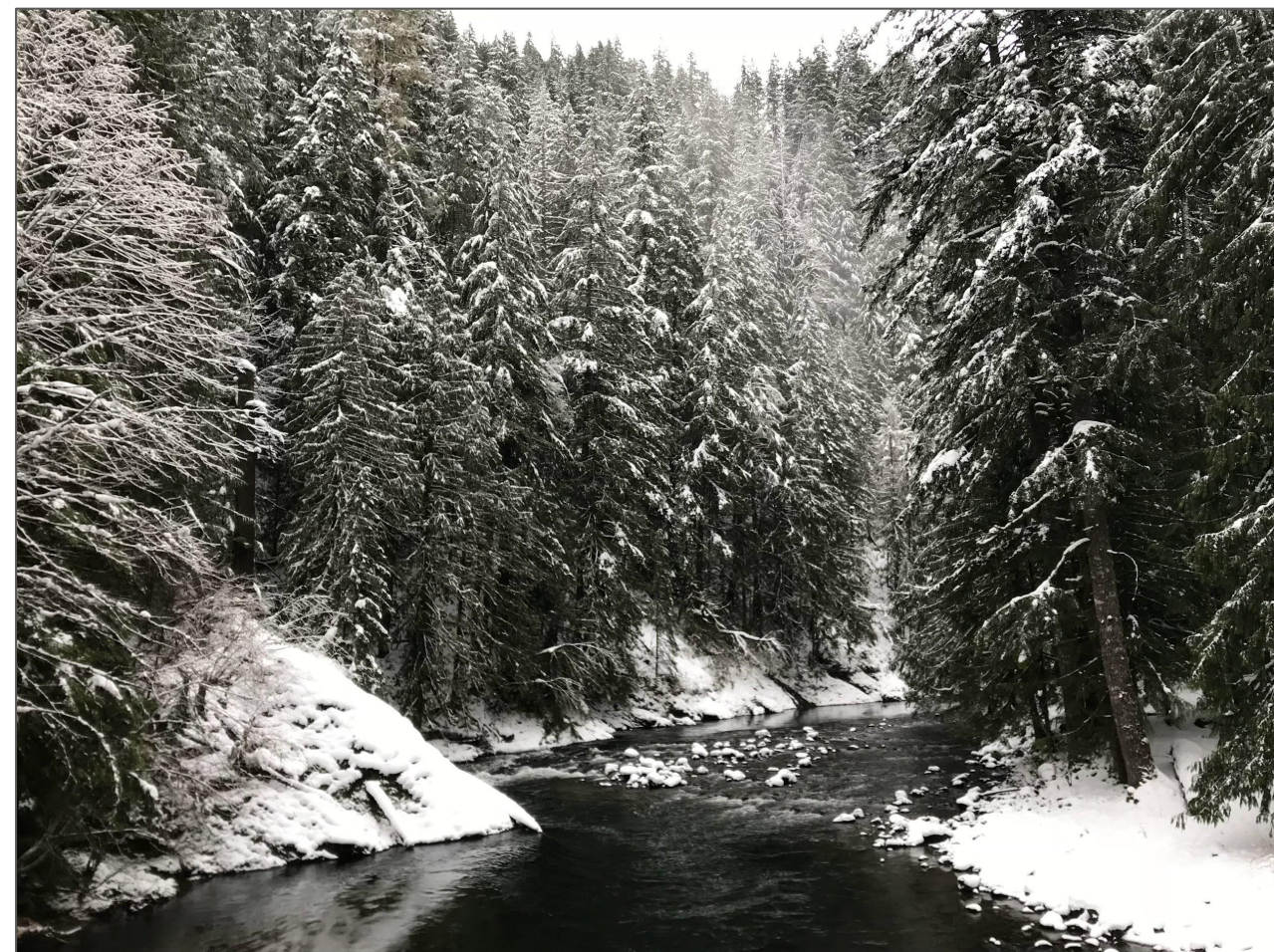


# OR and WA Water Year 2023 Recap

November 2, 2023



**Amy Burke**  
**Senior Hydrologist**  
**Northwest River Forecast Center**



[nwrfc.watersupply@noaa.gov](mailto:nwrfc.watersupply@noaa.gov)



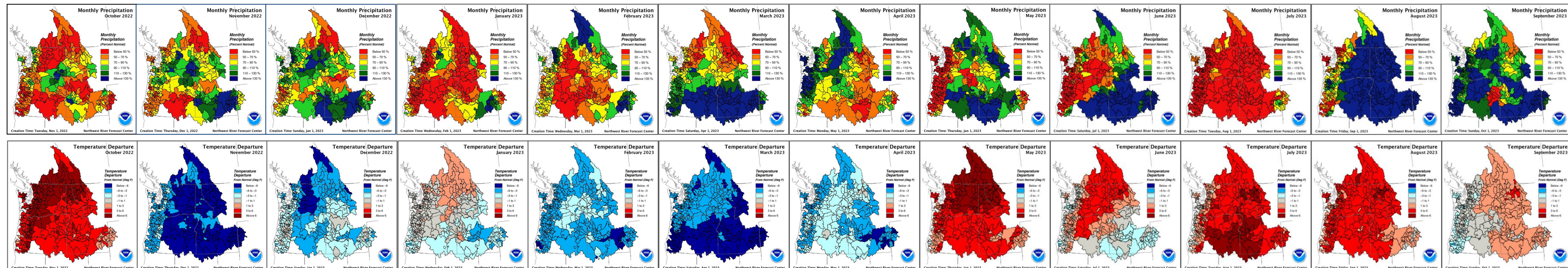
(503) 326-7291



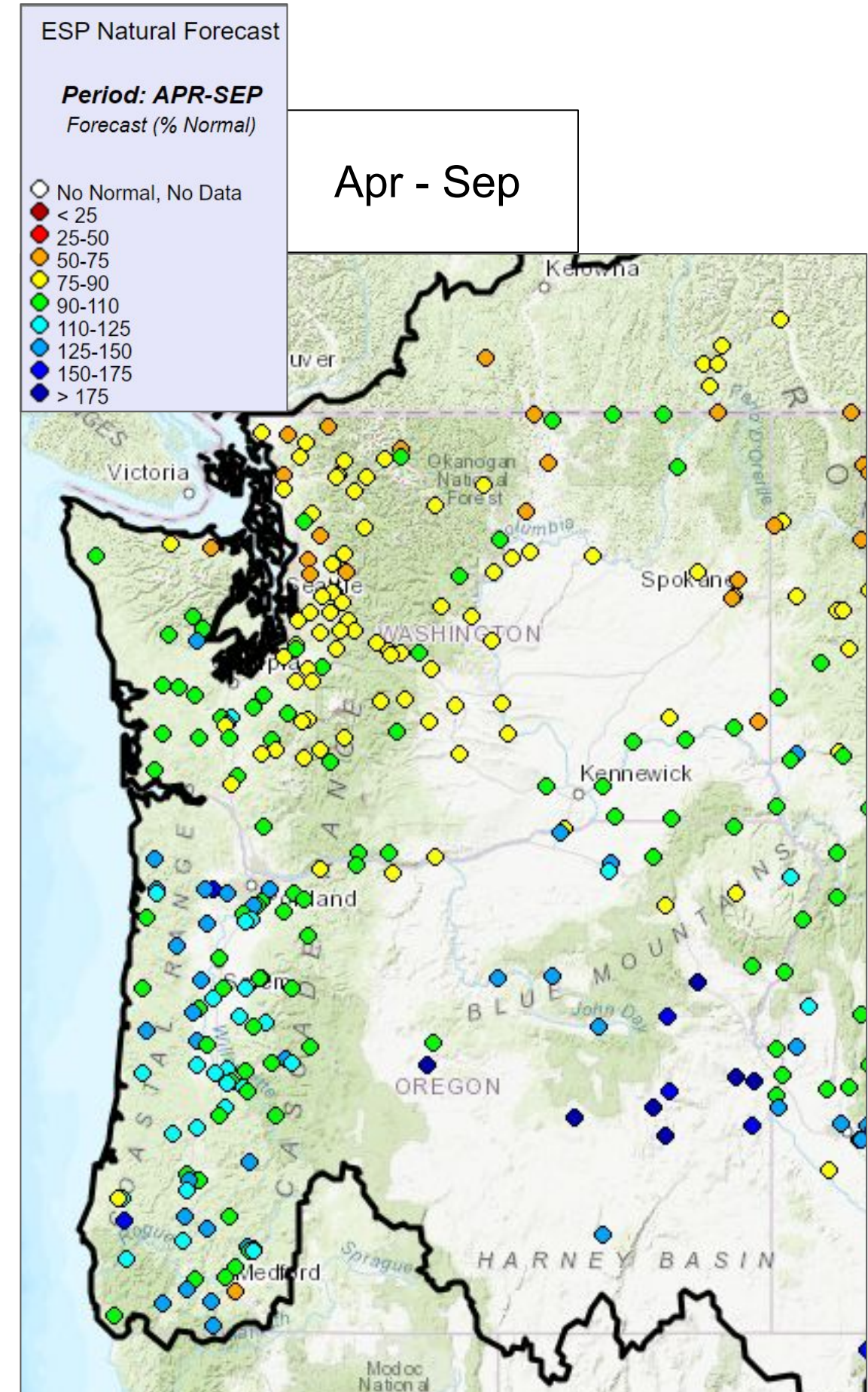
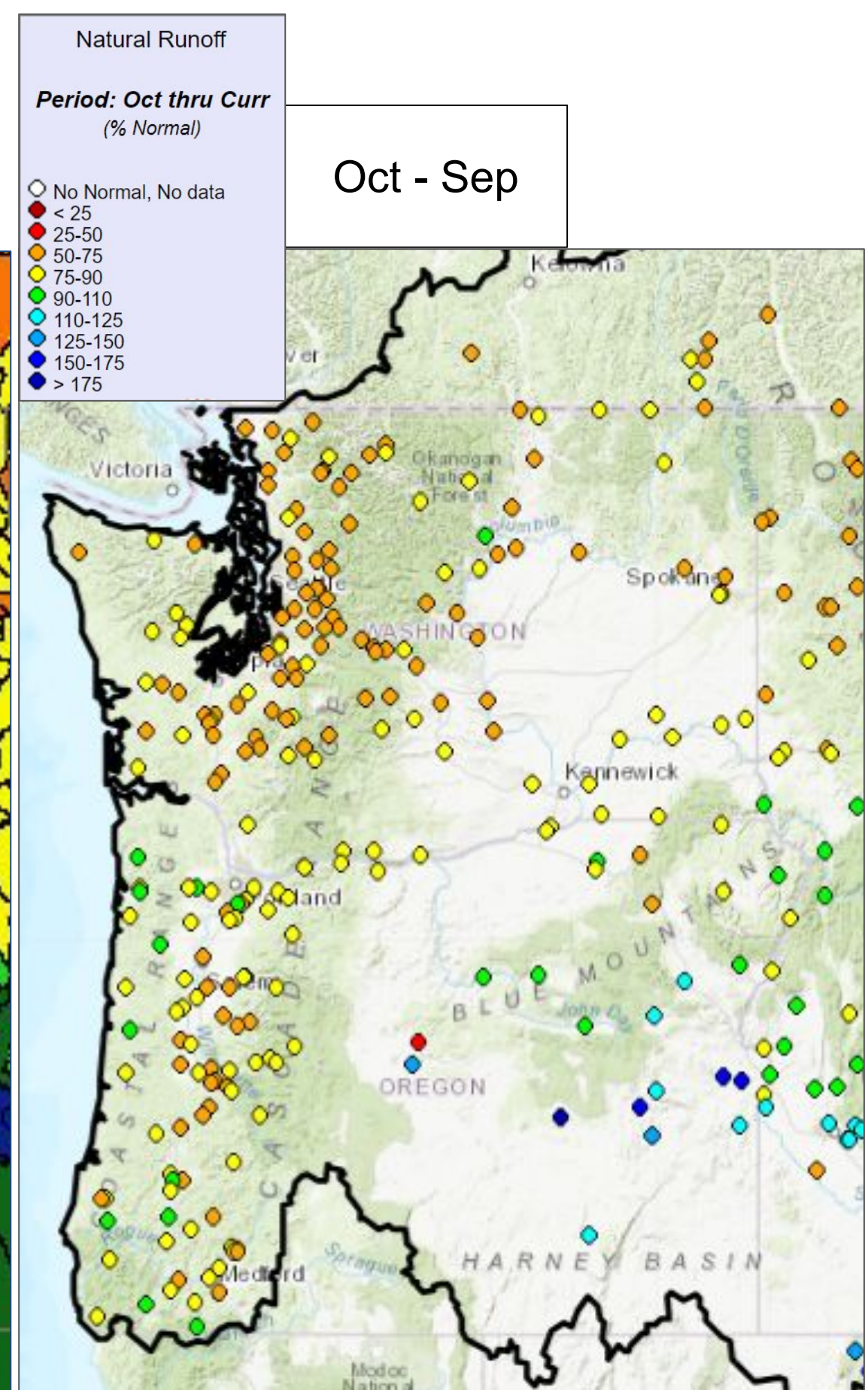
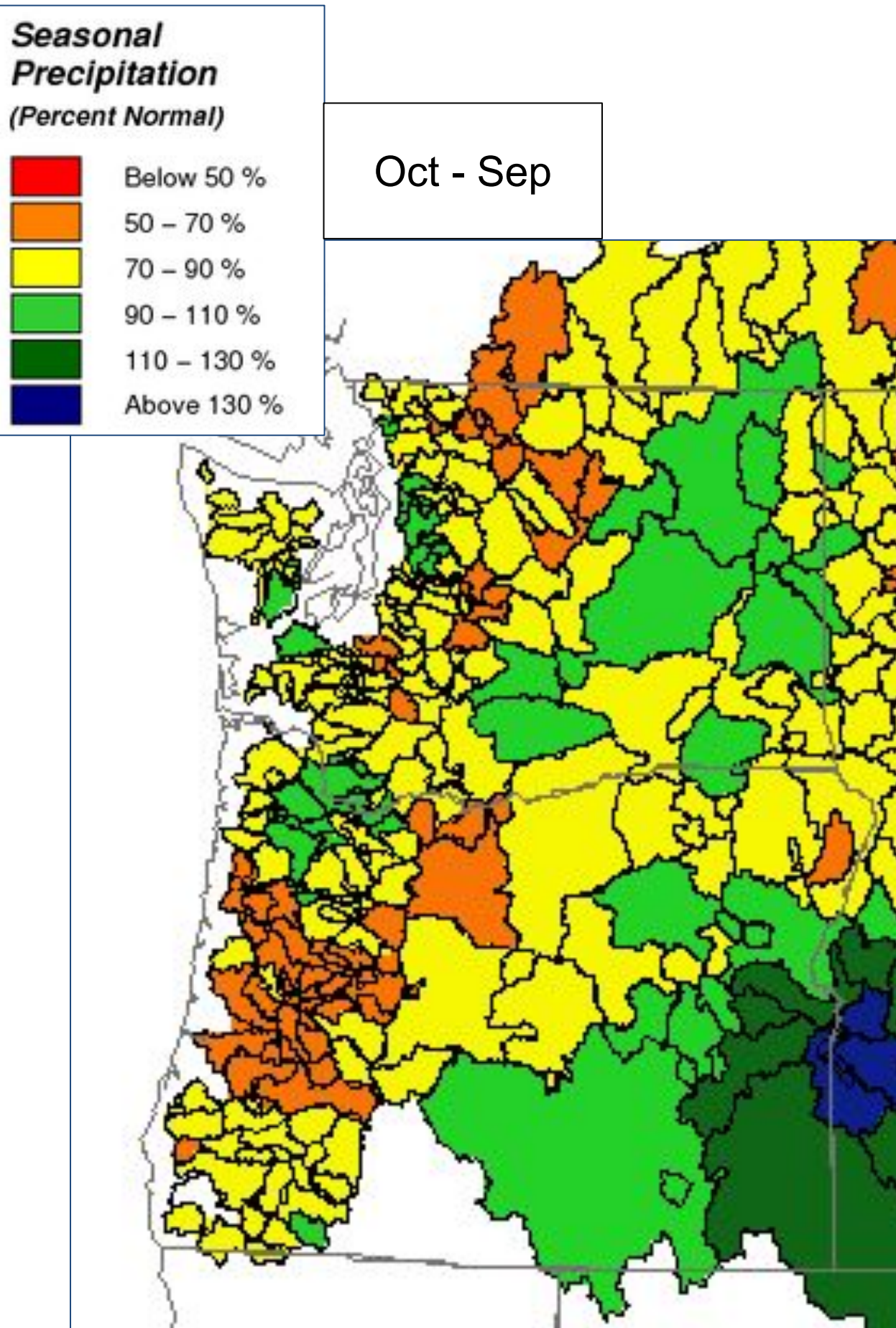
[nwrfc.noaa.gov](http://nwrfc.noaa.gov)



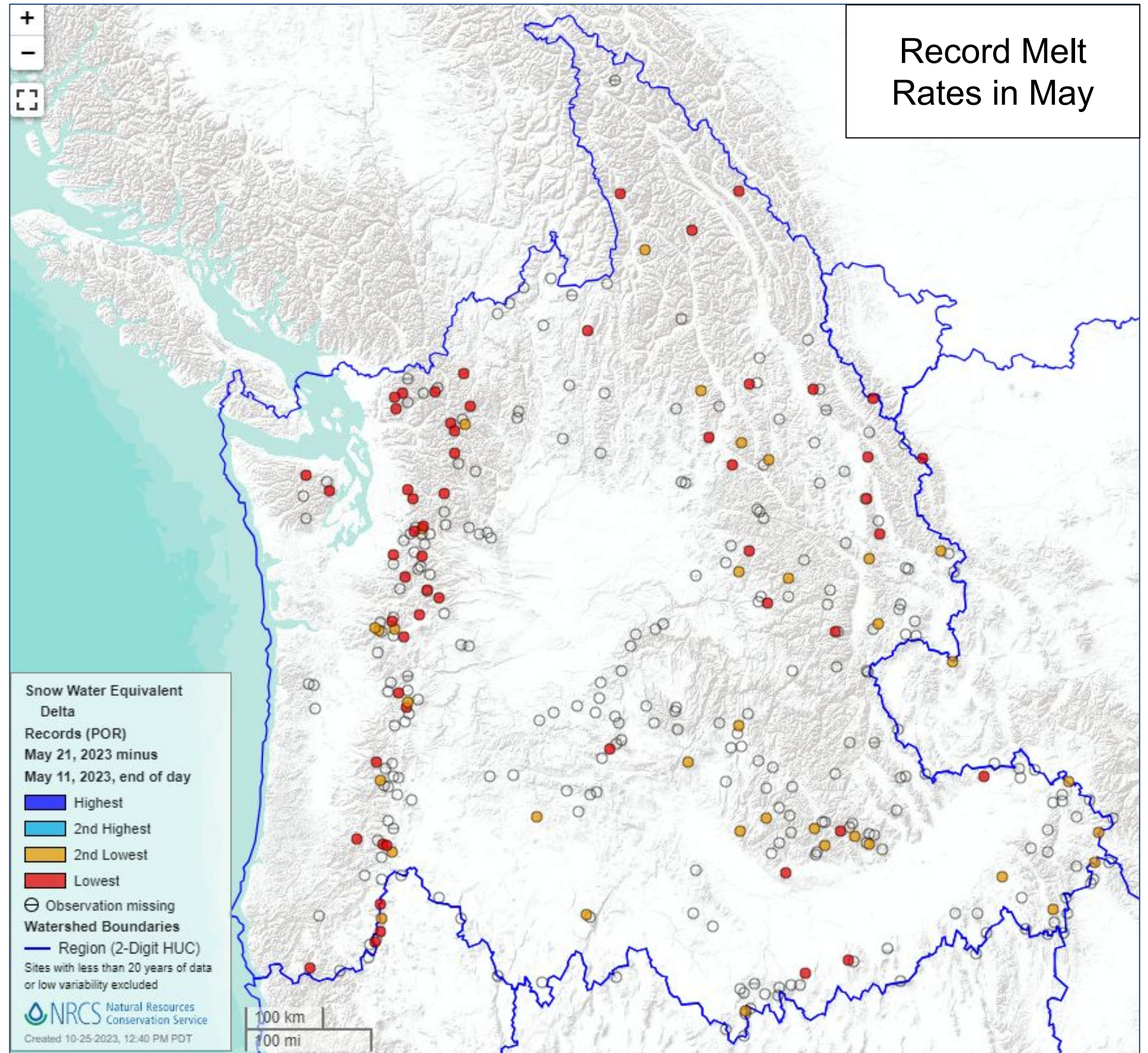
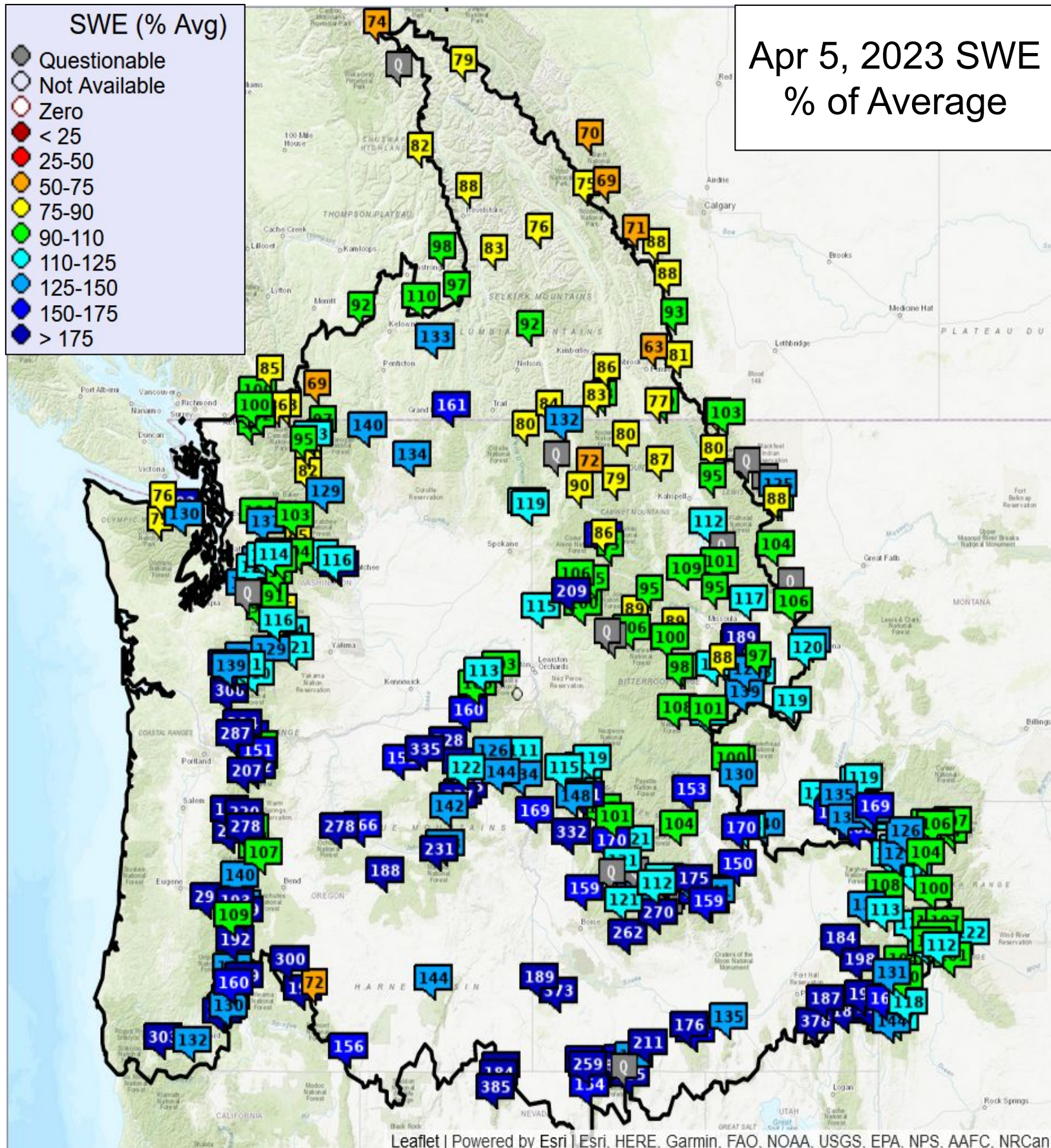
- Water year 2023 started with low runoff and soil moisture
- When precipitation started it was cold and fell as snow
- Winter runoff remained low as snowpacks built
- May was warm with record snowmelt rates
- Water supply forecasts issued in May were high biased
- Apr - Sep runoff volumes were near to above normal in OR and below normal in WA





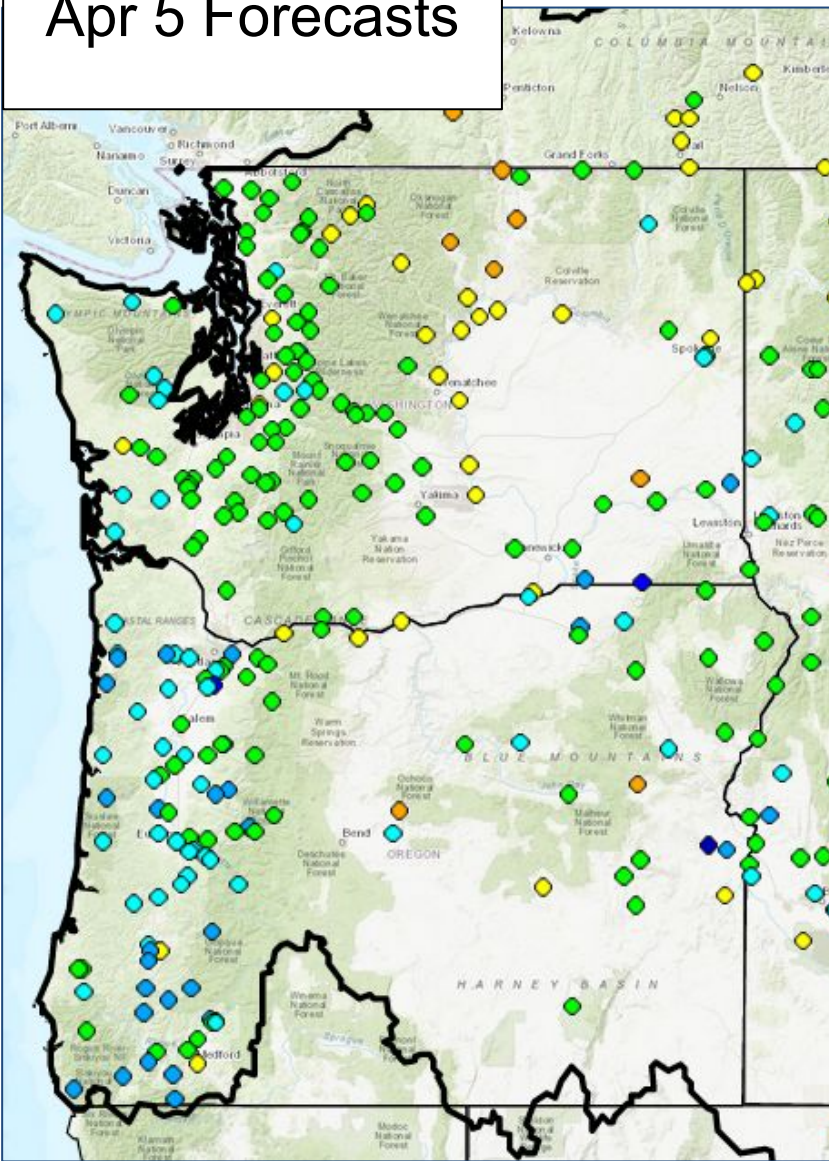




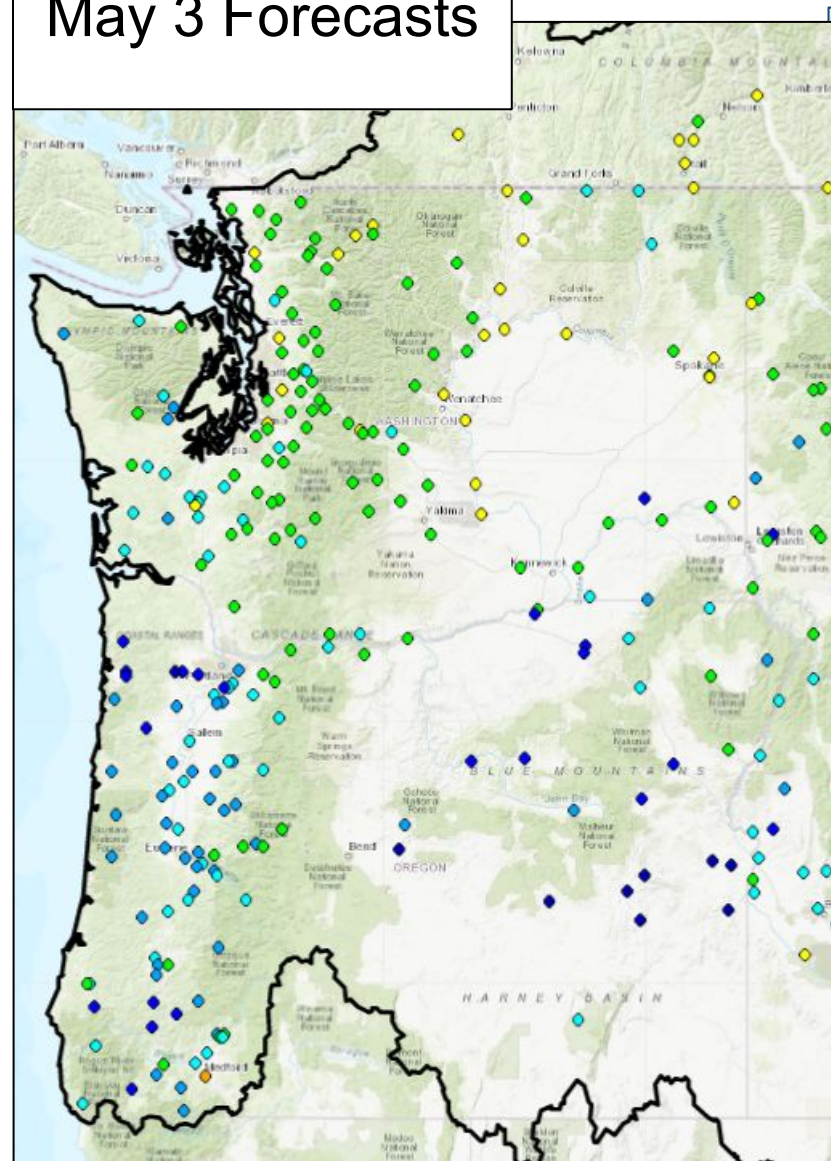




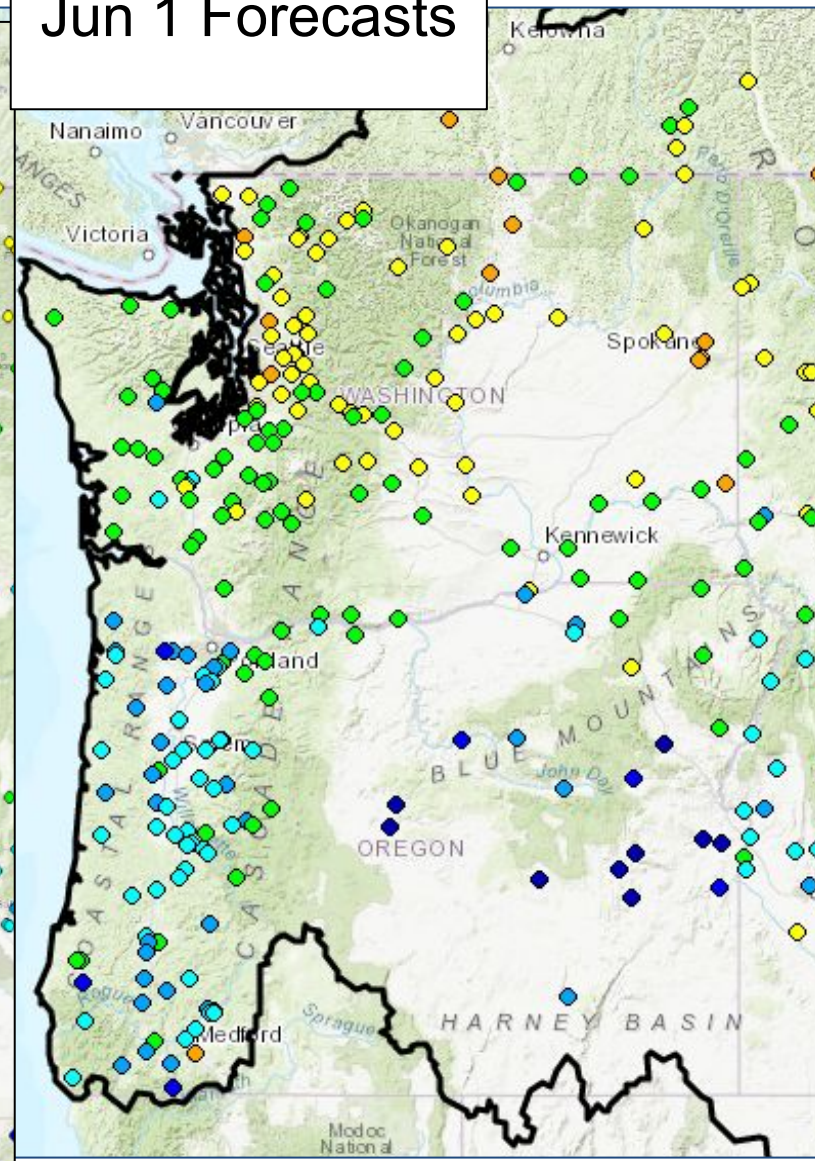
Apr 5 Forecasts



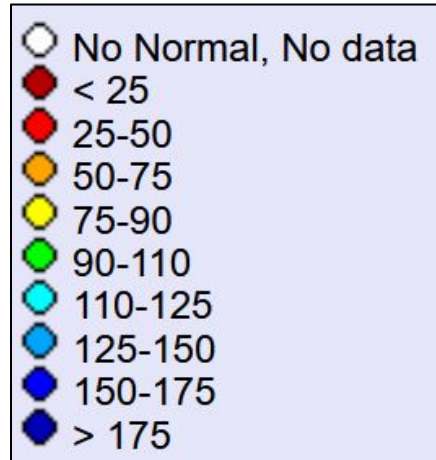
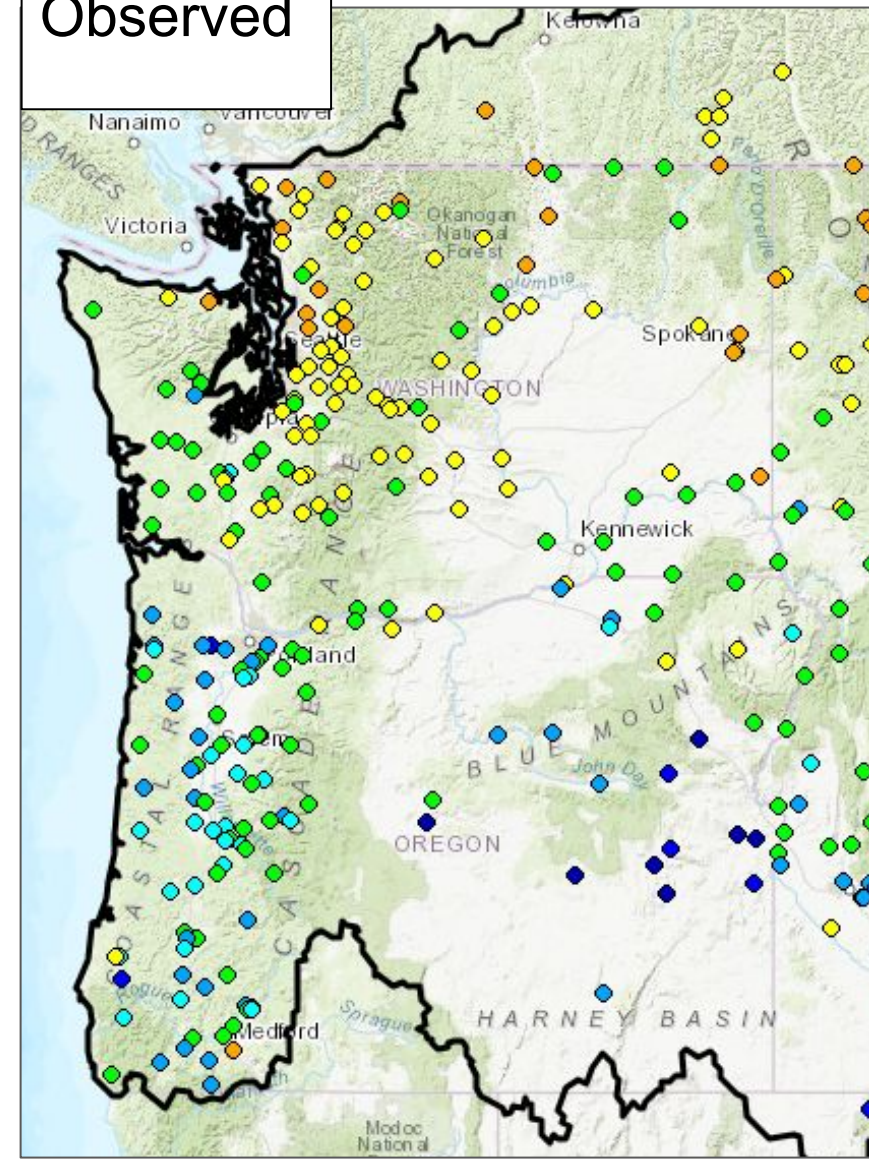
May 3 Forecasts



Jun 1 Forecasts



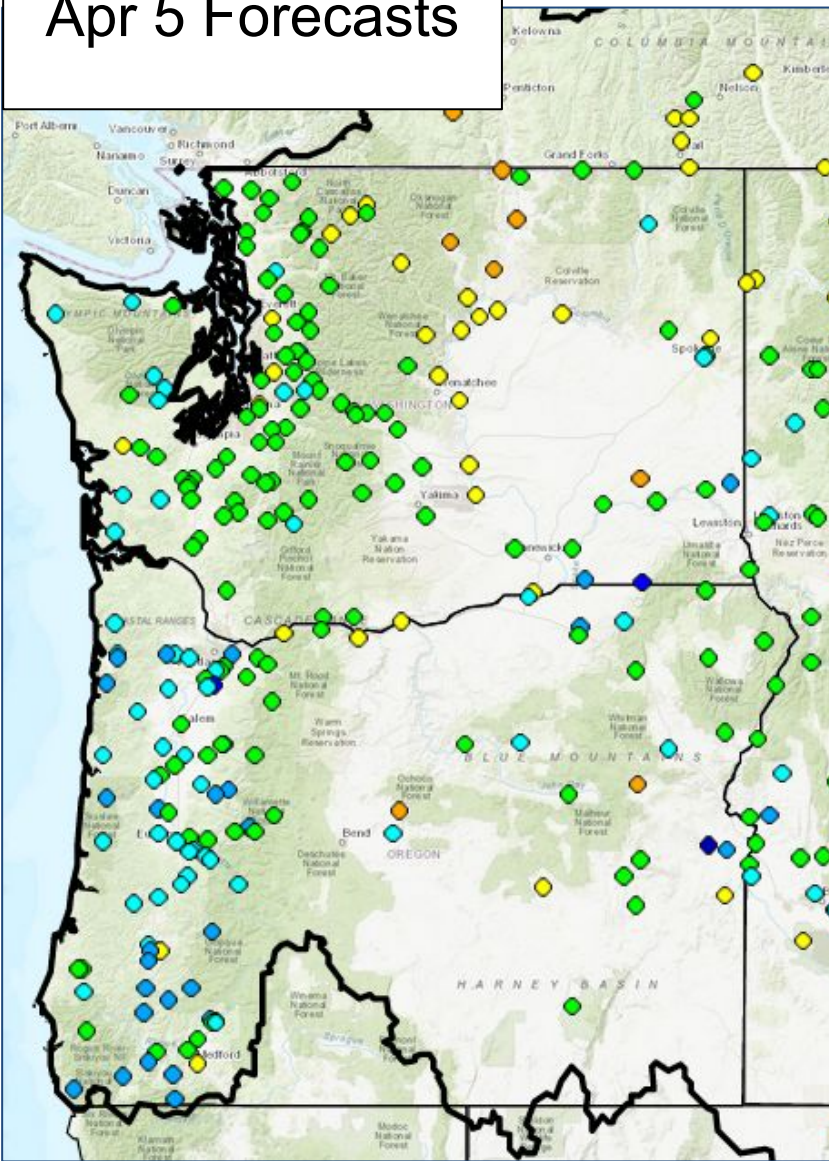
Observed



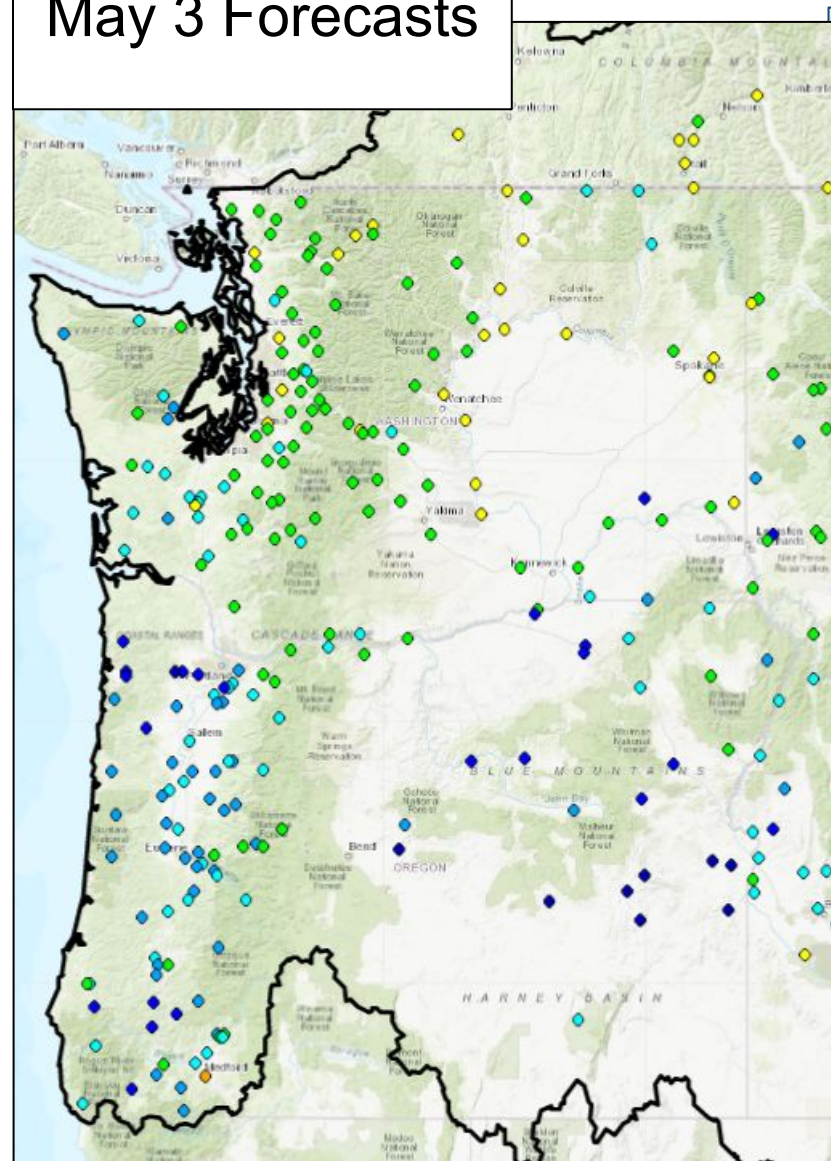
- Washington forecasts issued in April and May were high biased
- Southeast Oregon forecasts were low biased prior to May



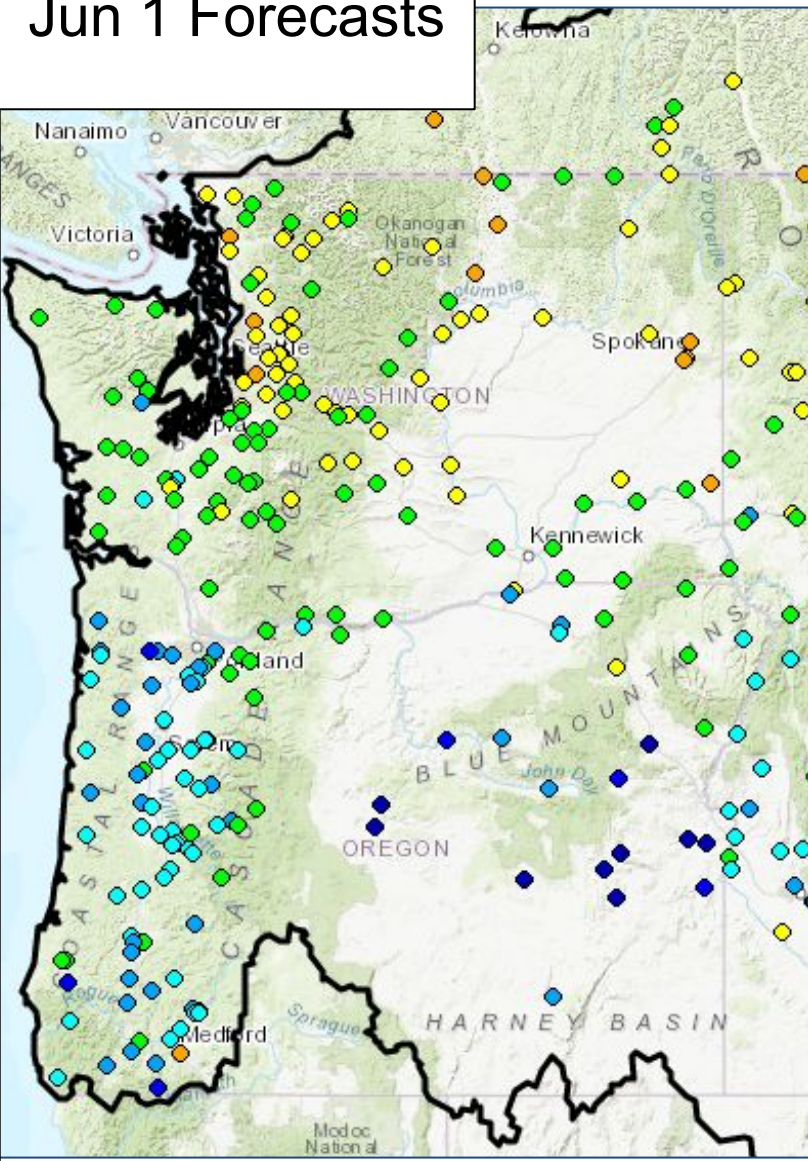
Apr 5 Forecasts



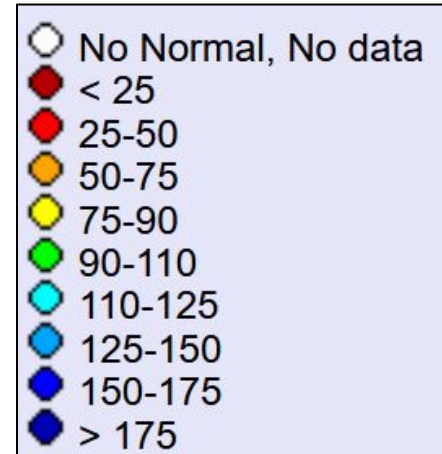
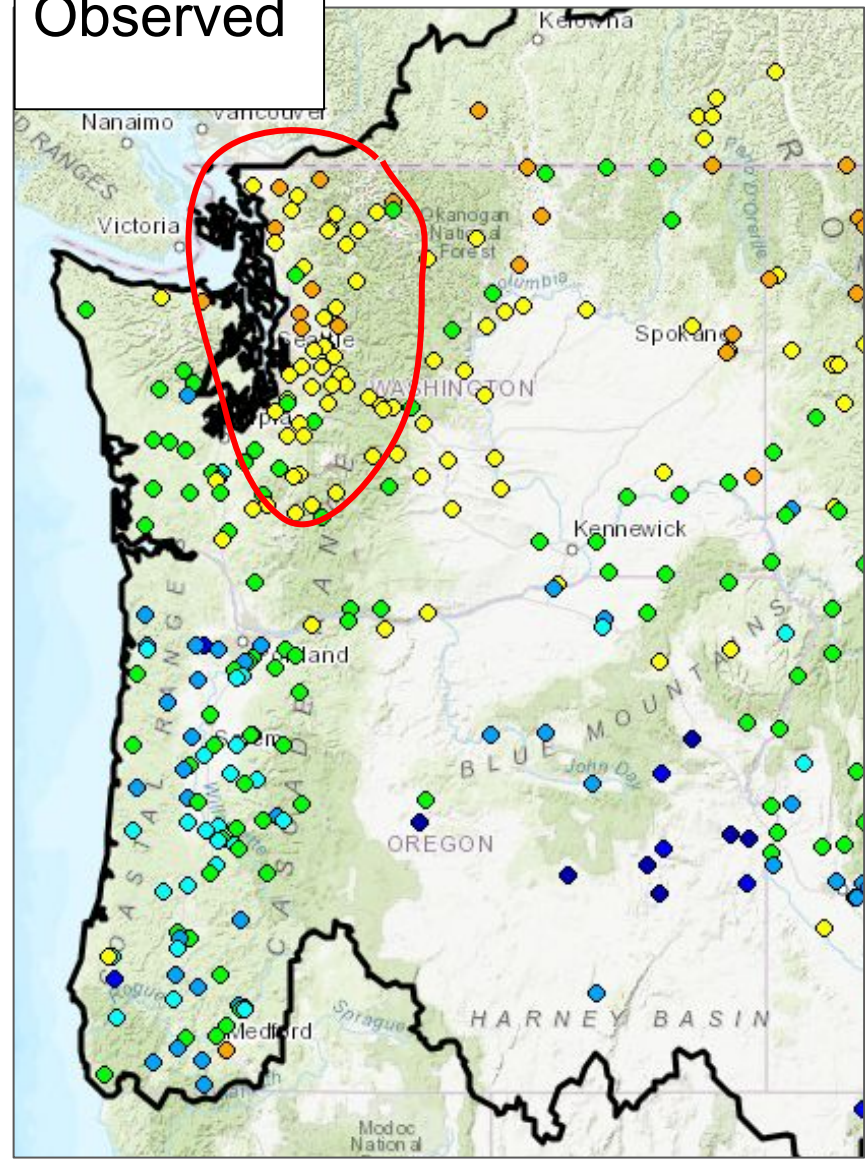
May 3 Forecasts



Jun 1 Forecasts



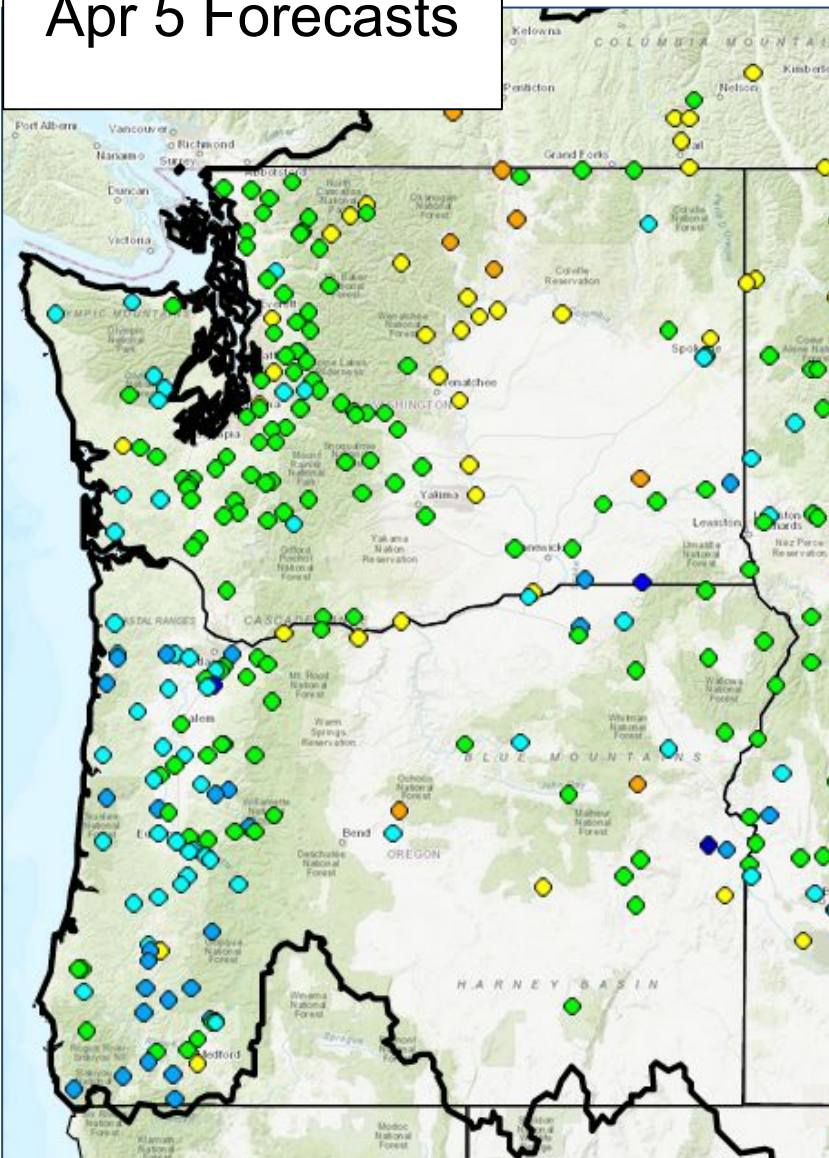
Observed



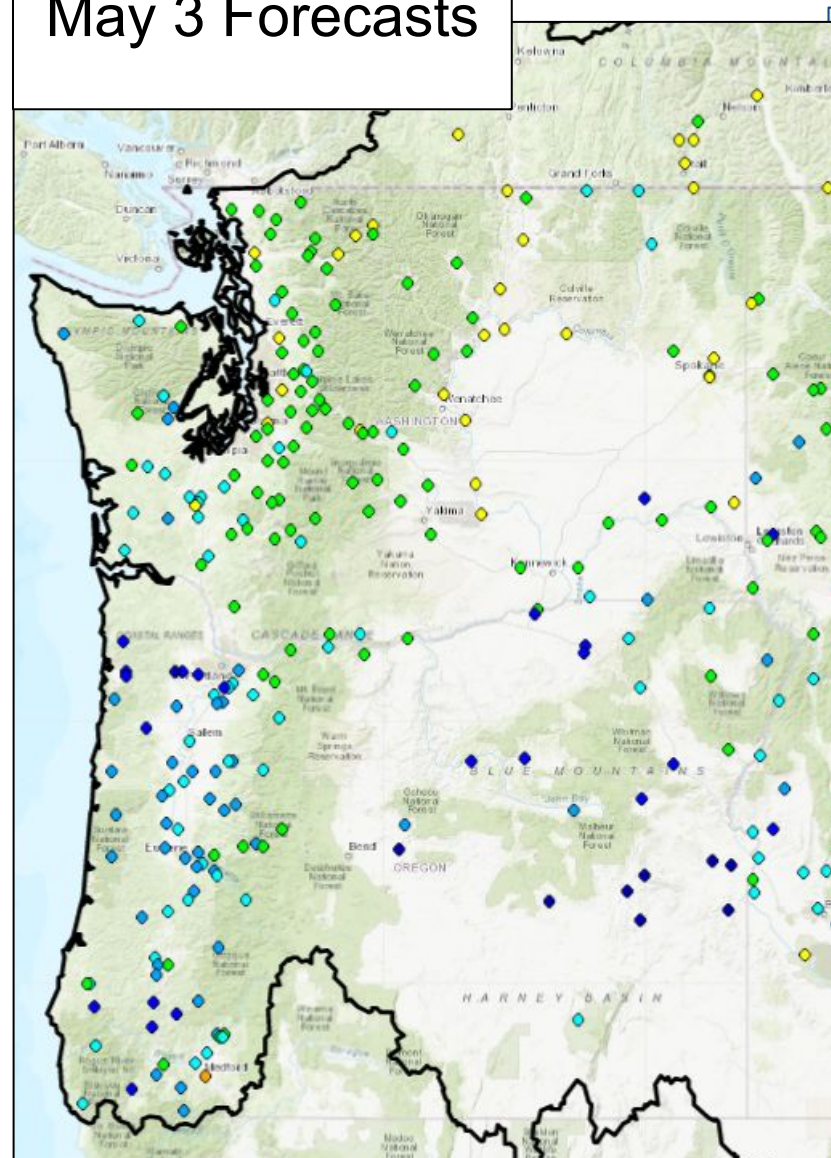
- Washington forecasts issued in April and May were high biased
- Southeast Oregon forecasts were low biased prior to May



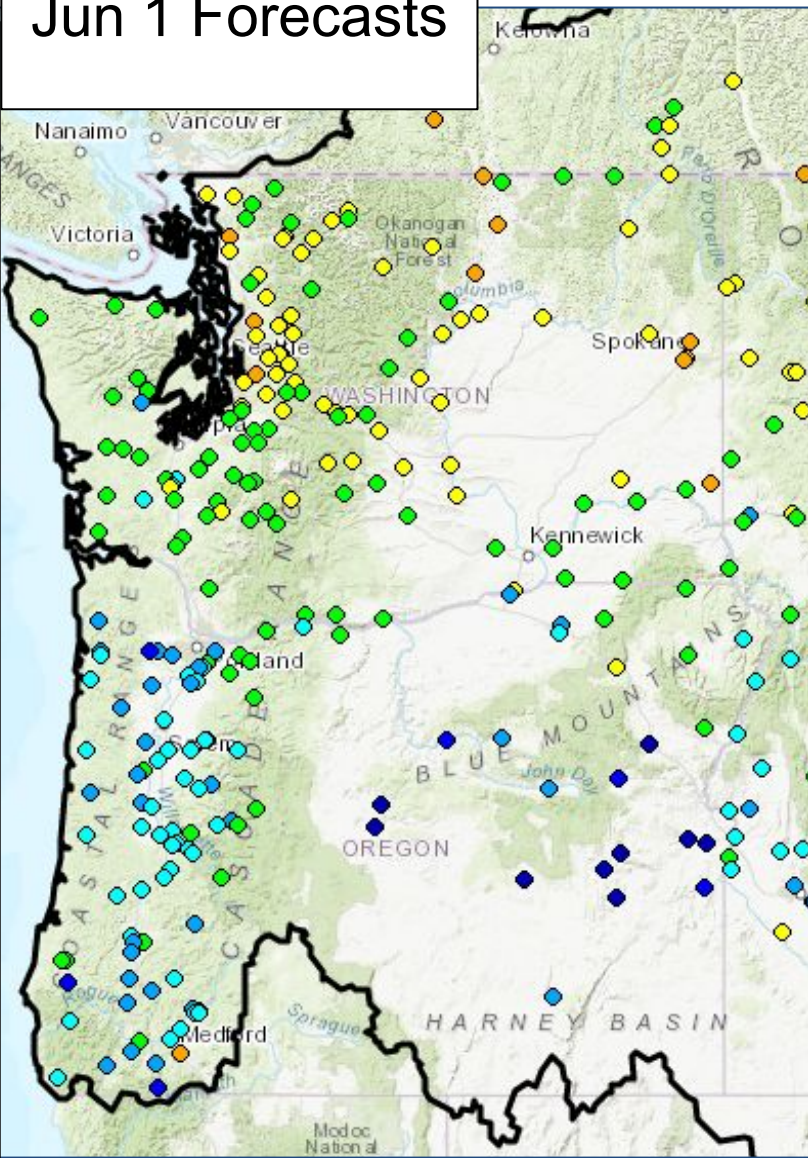
Apr 5 Forecasts



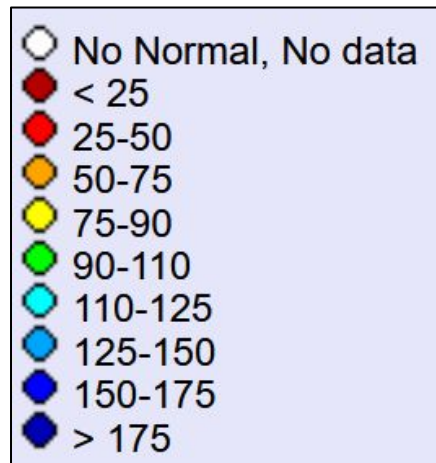
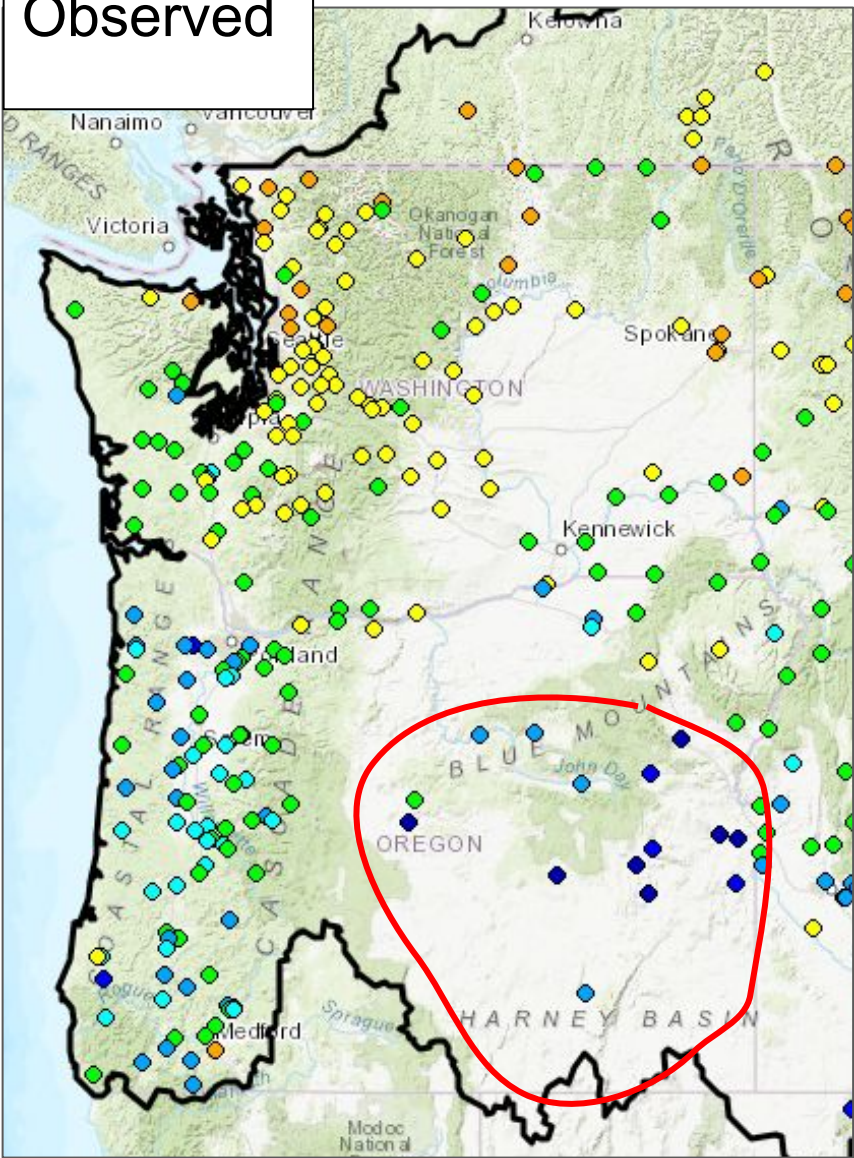
May 3 Forecasts



Jun 1 Forecasts



Observed

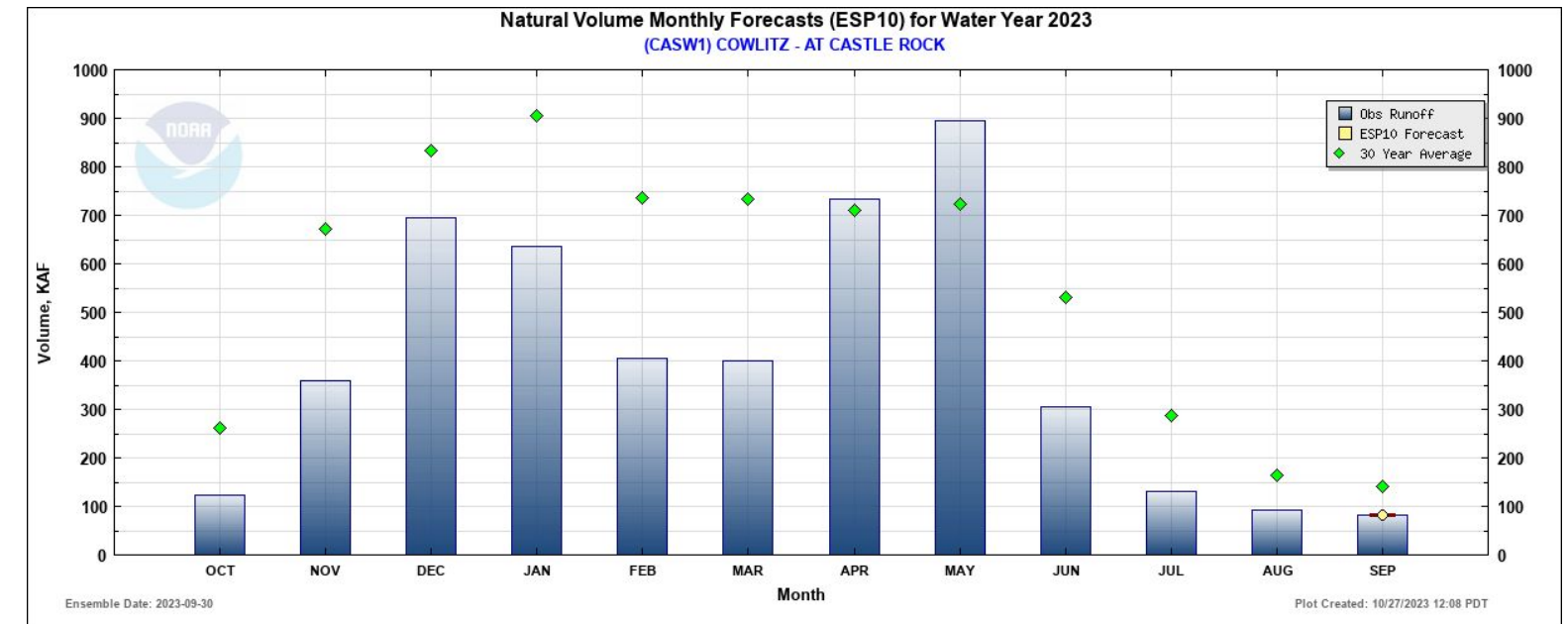
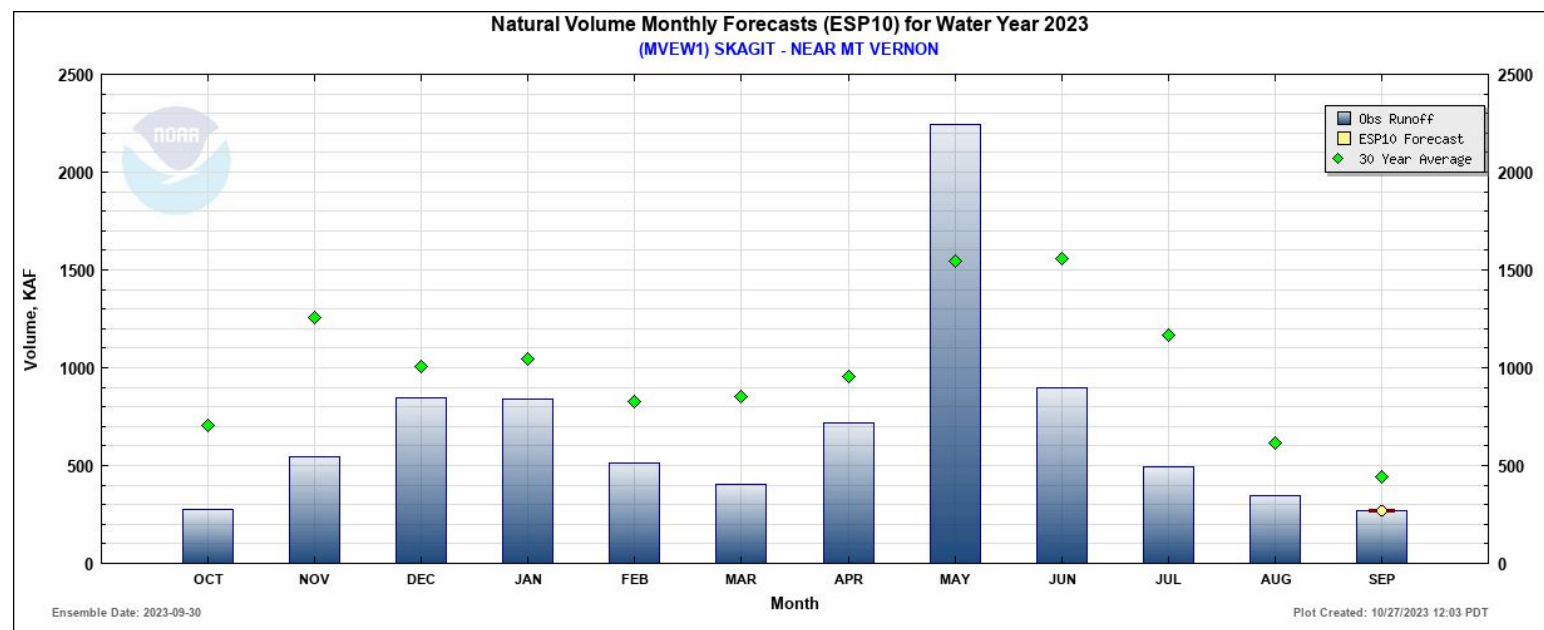
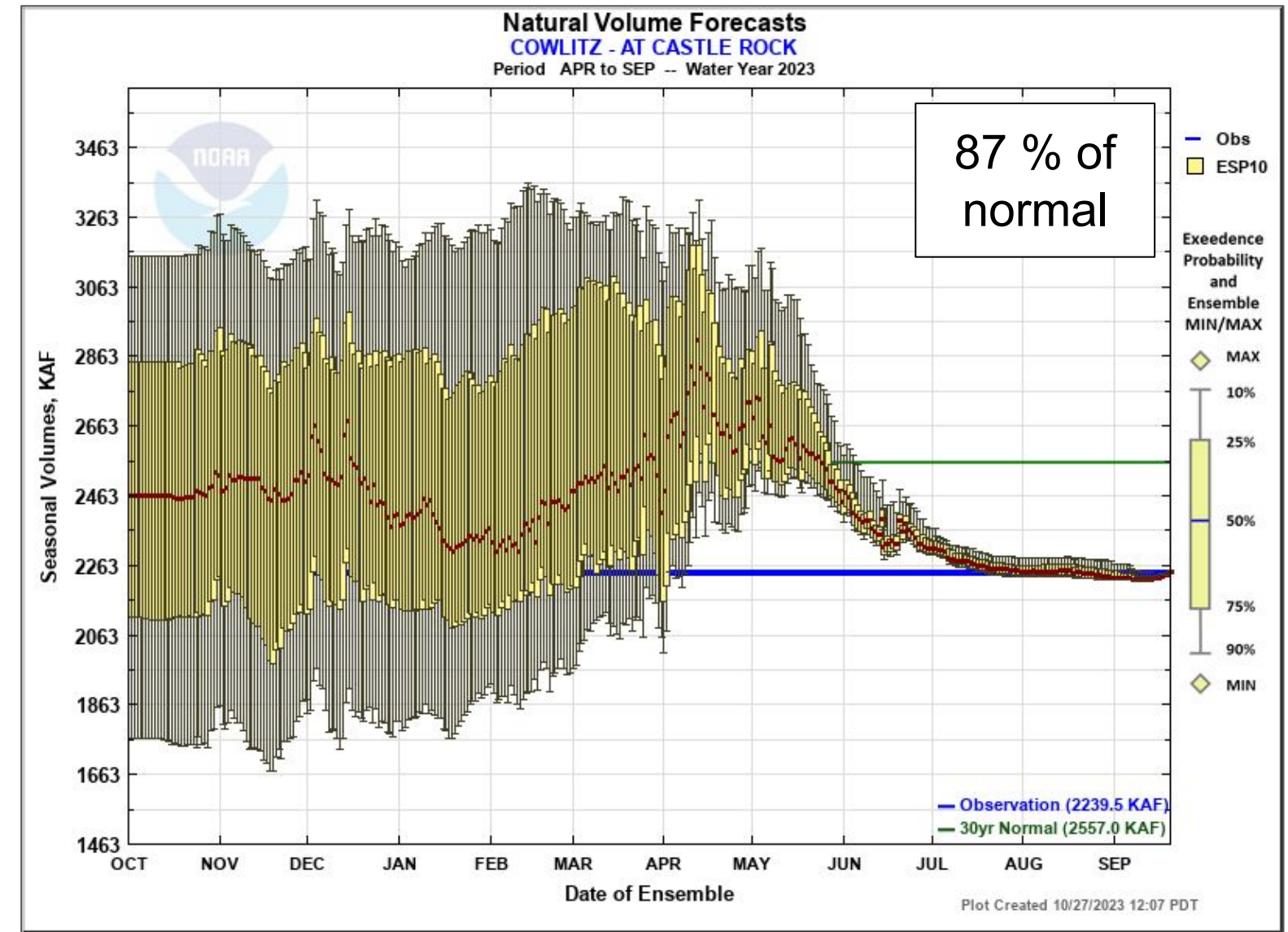
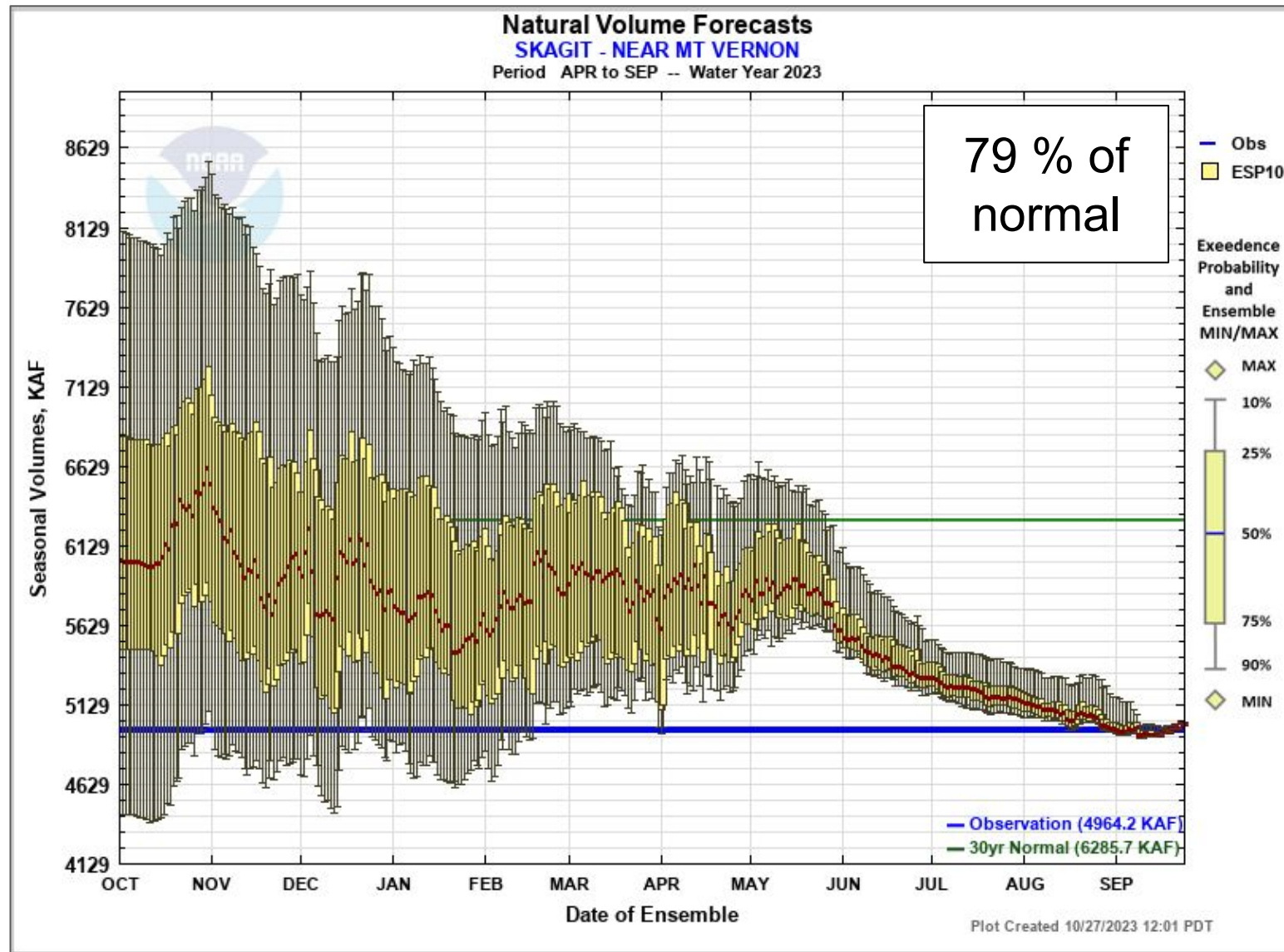


- Washington forecasts issued in April and May were high biased
- Southeast Oregon forecasts were low biased prior to May





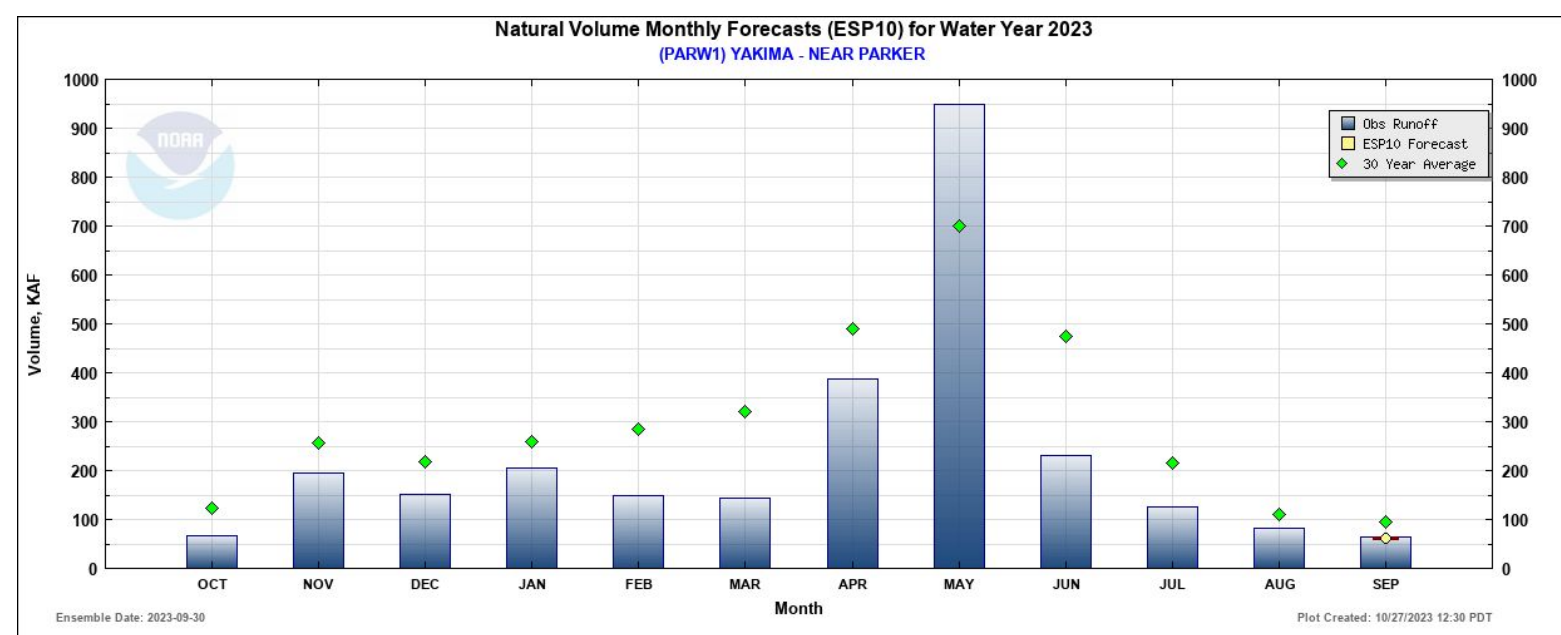
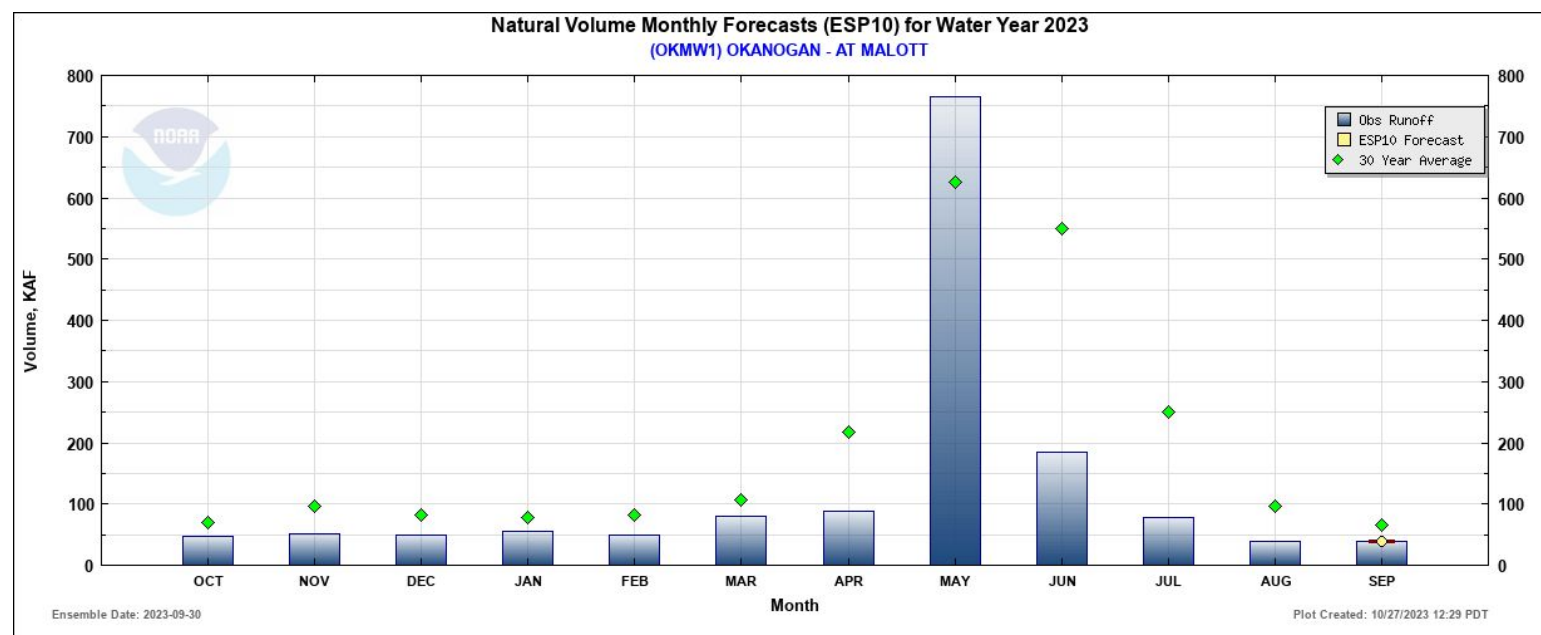
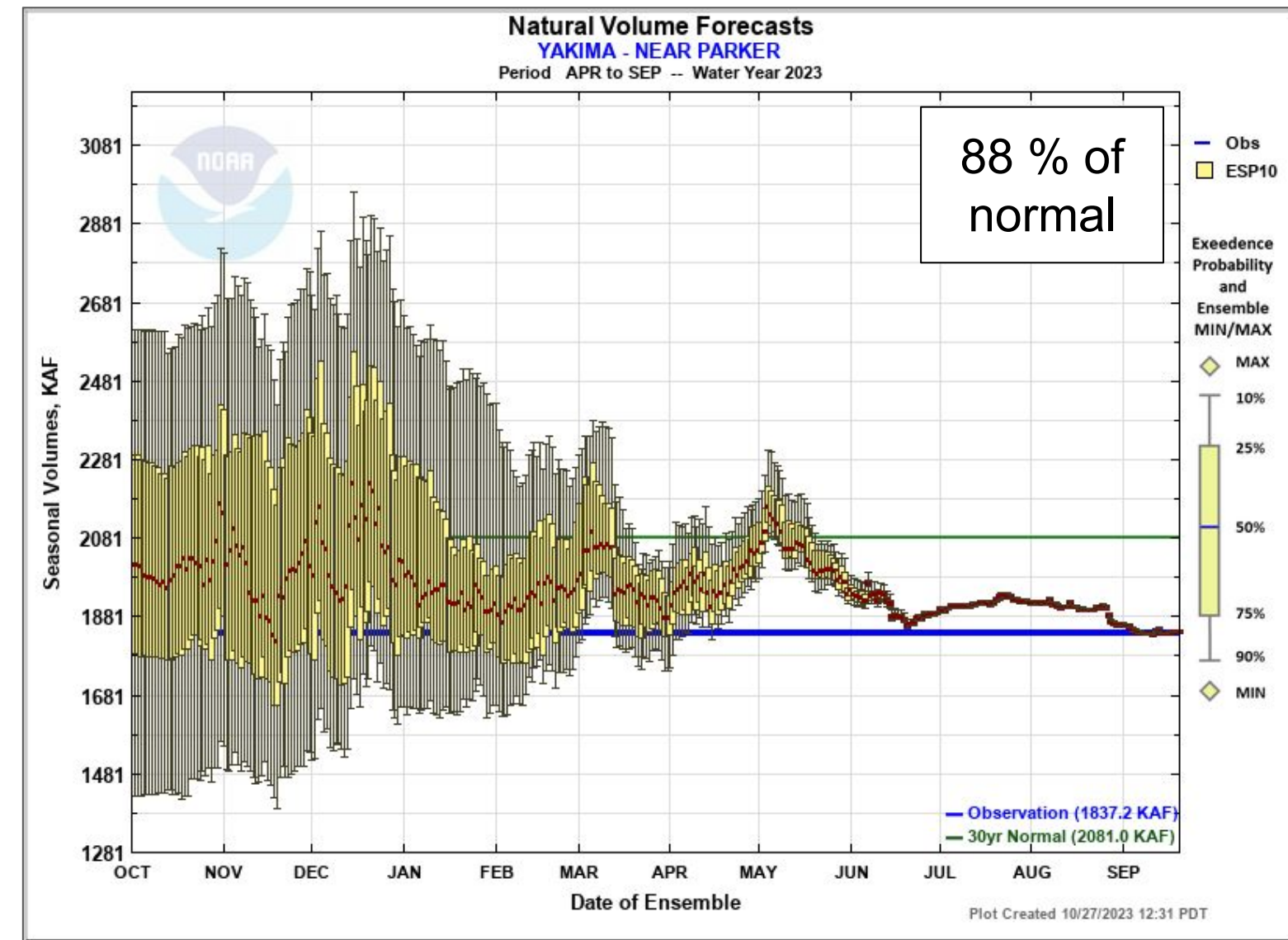
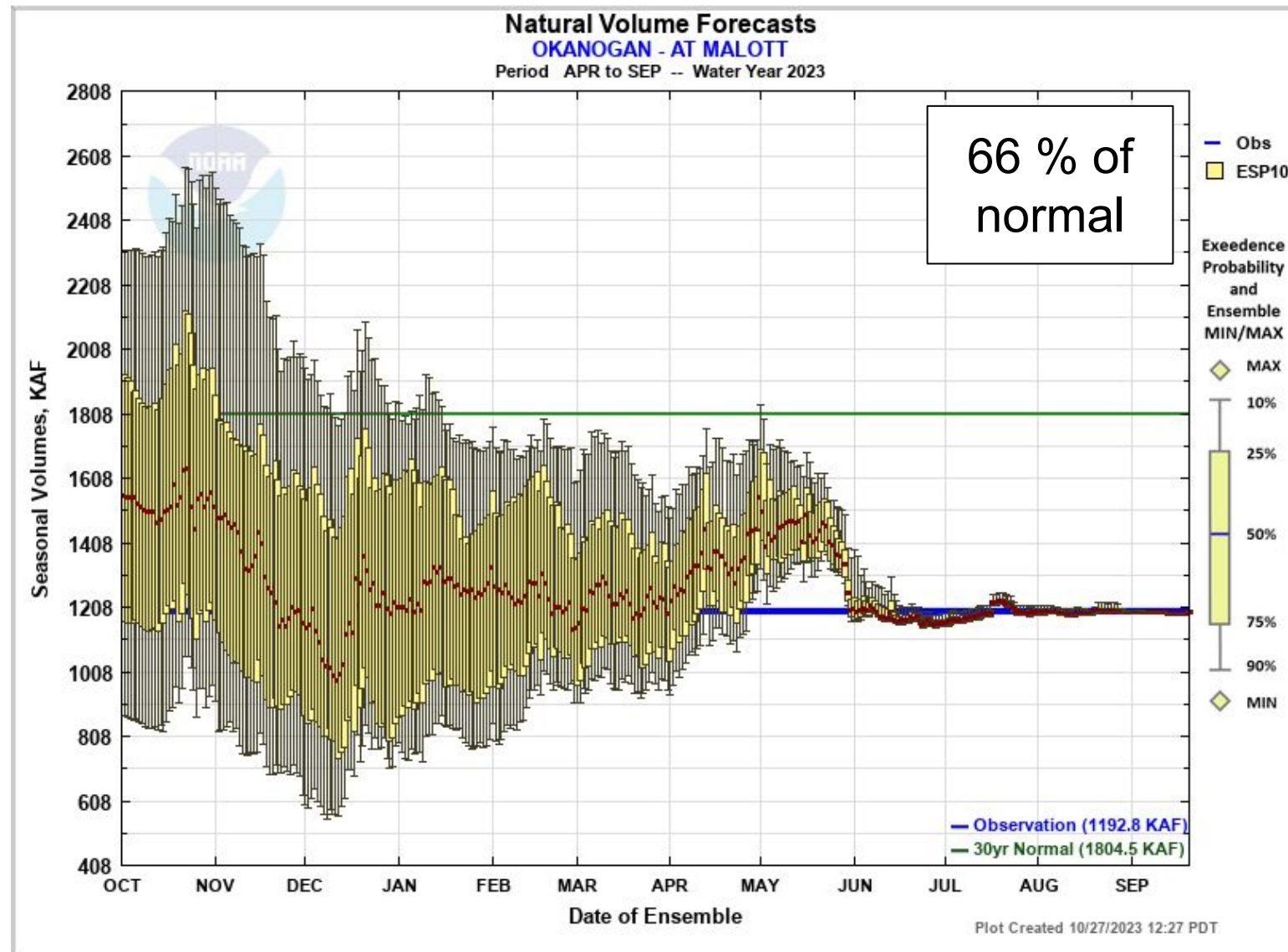
# Washington Volume Forecast Examples







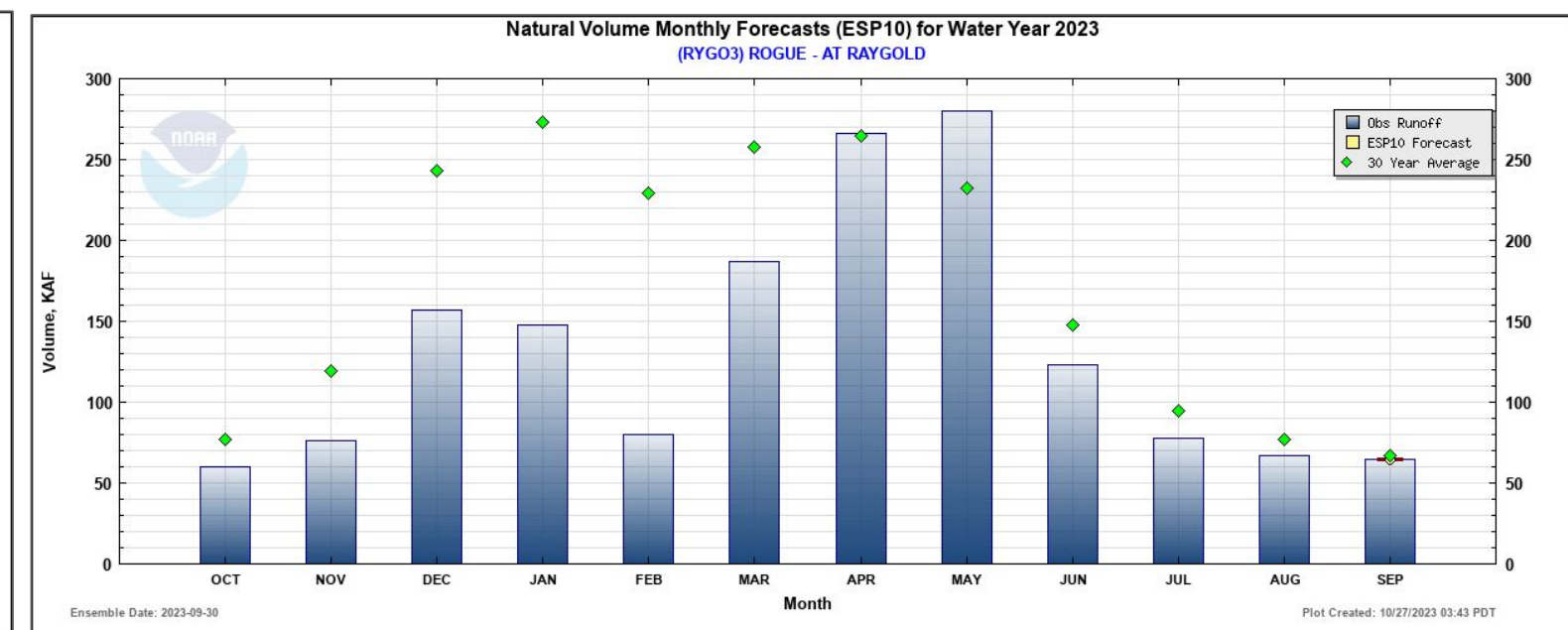
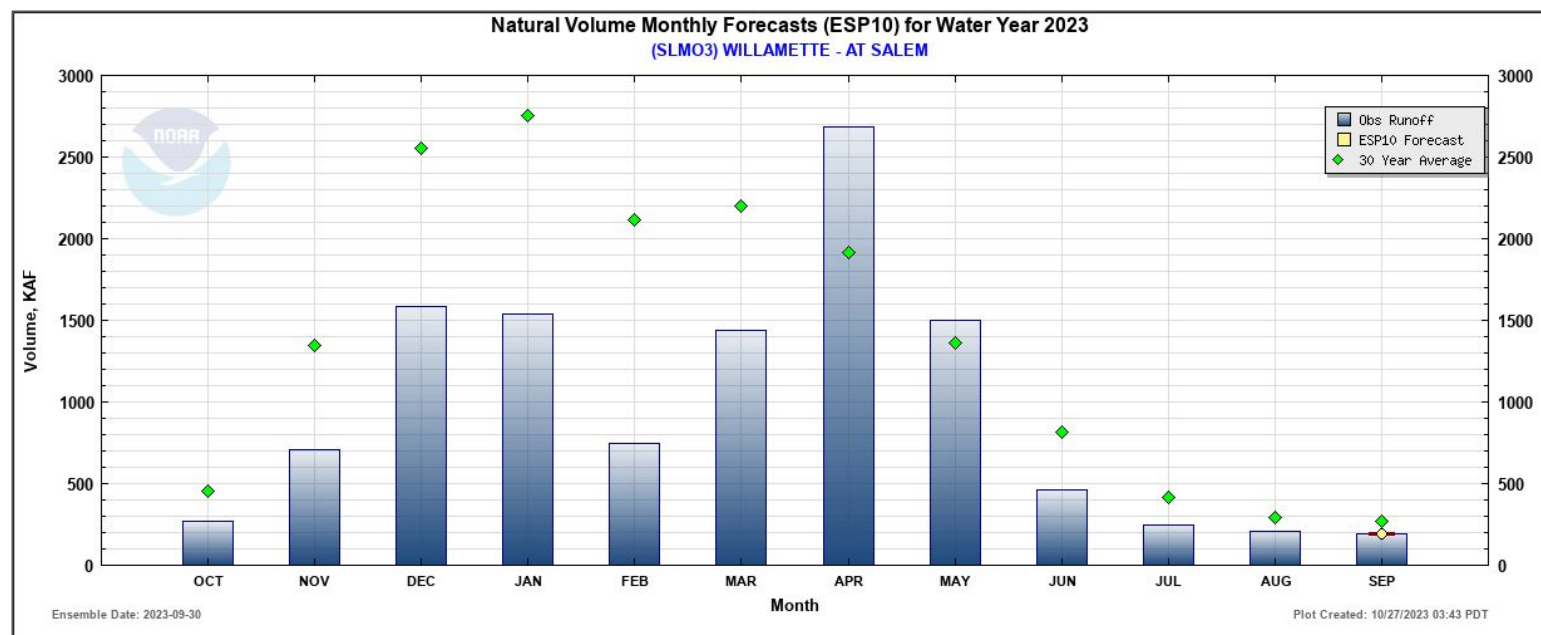
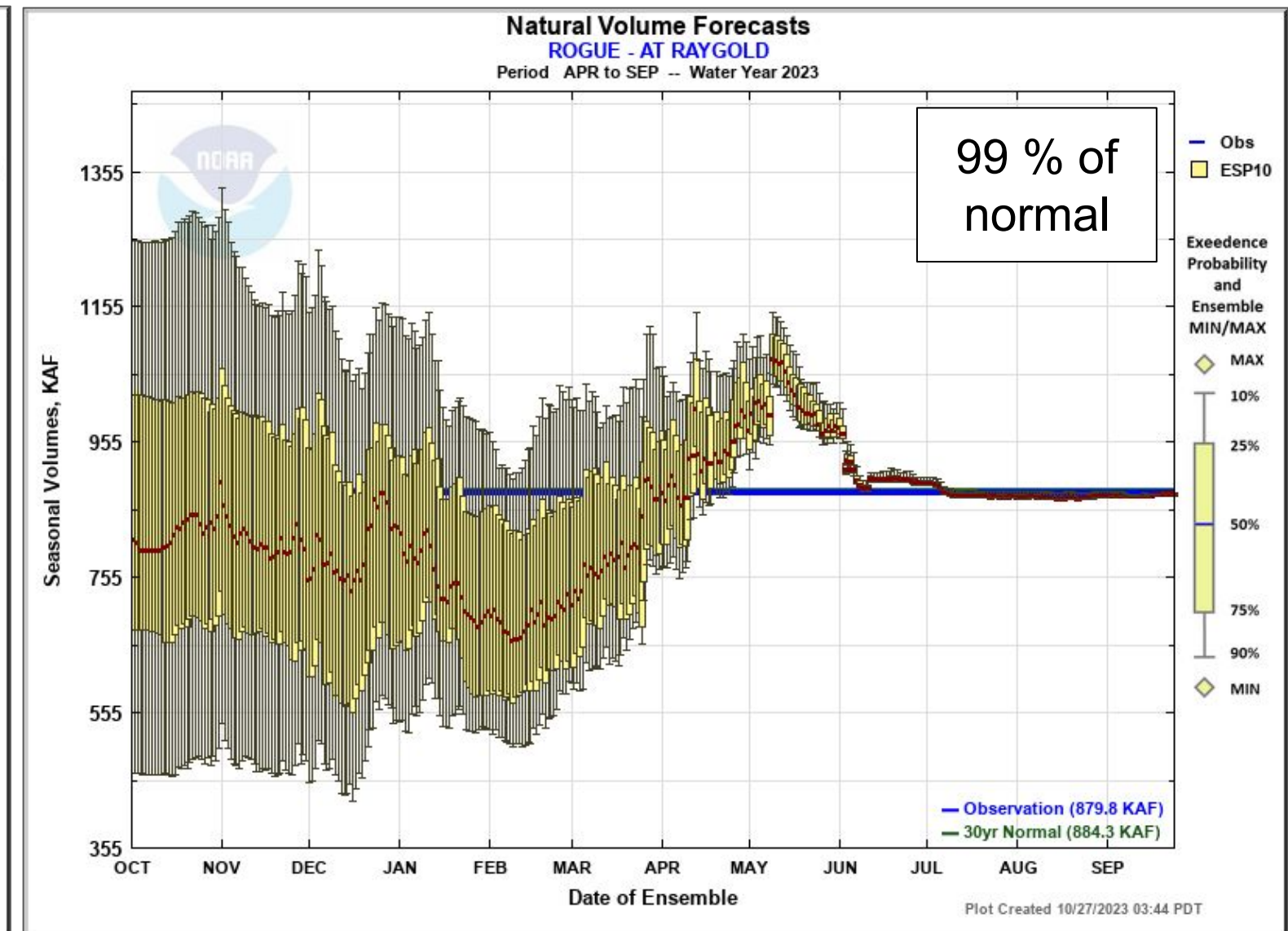
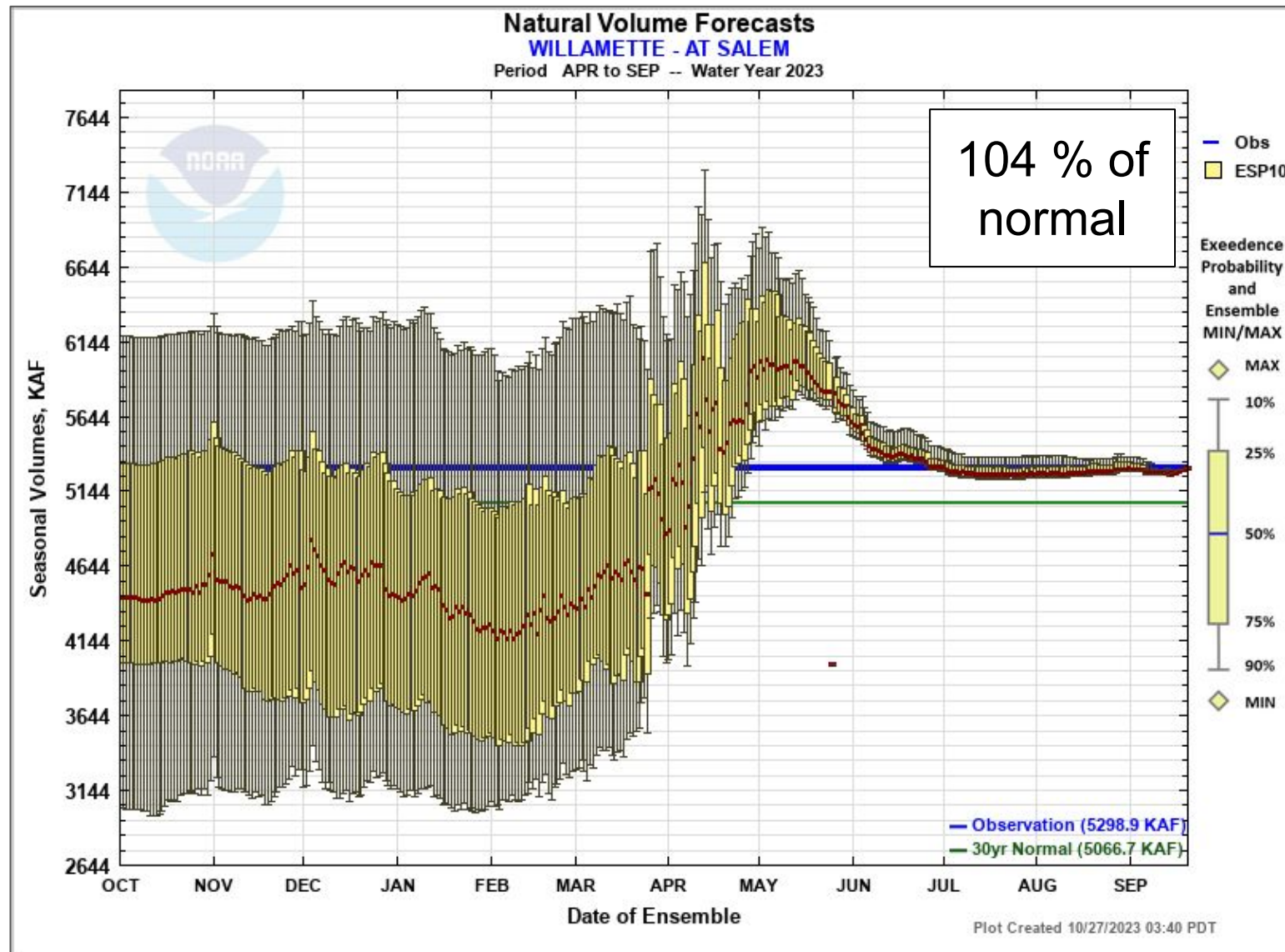
# Washington Volume Forecast Examples







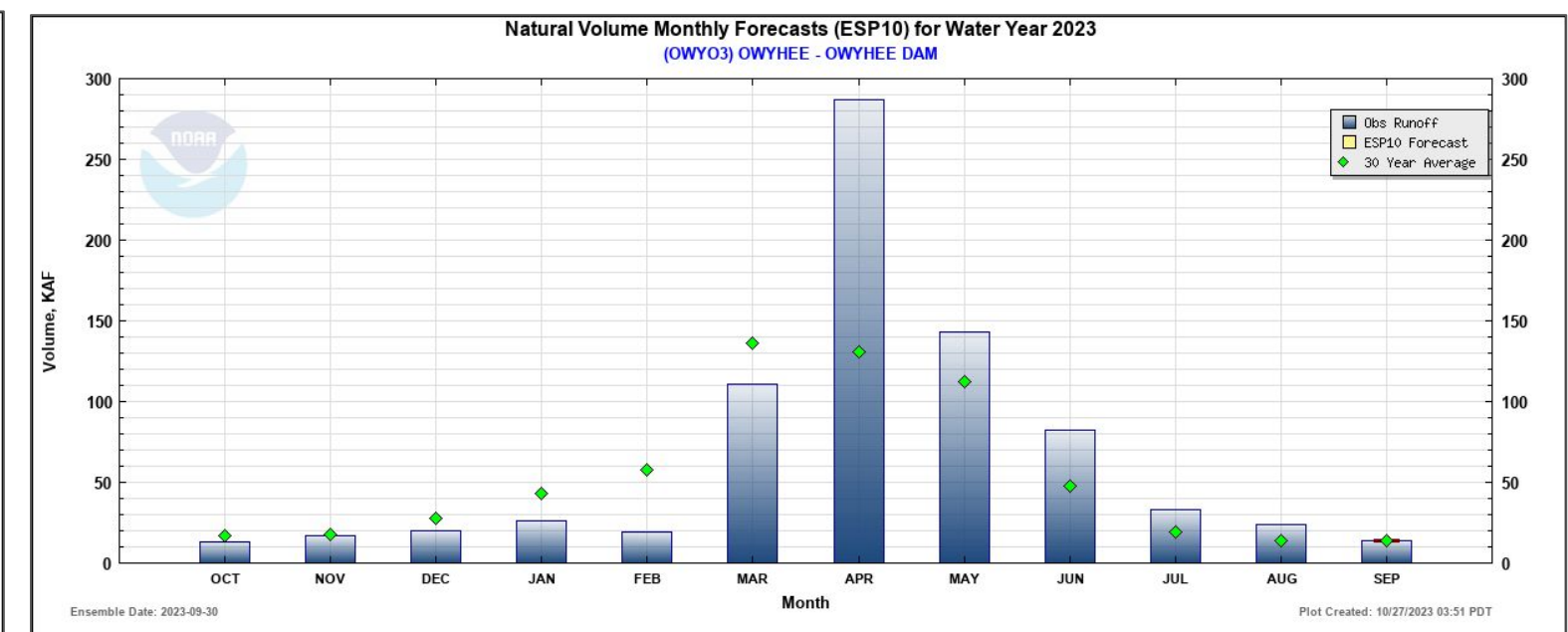
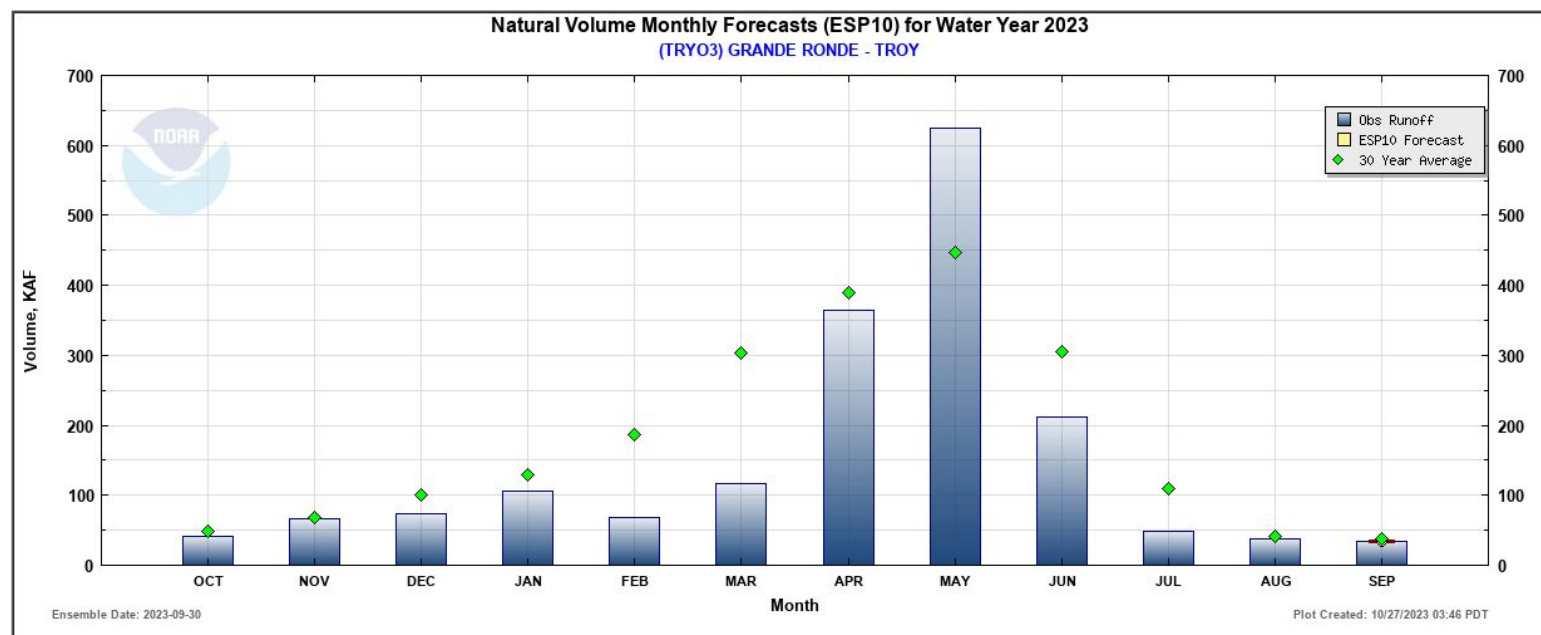
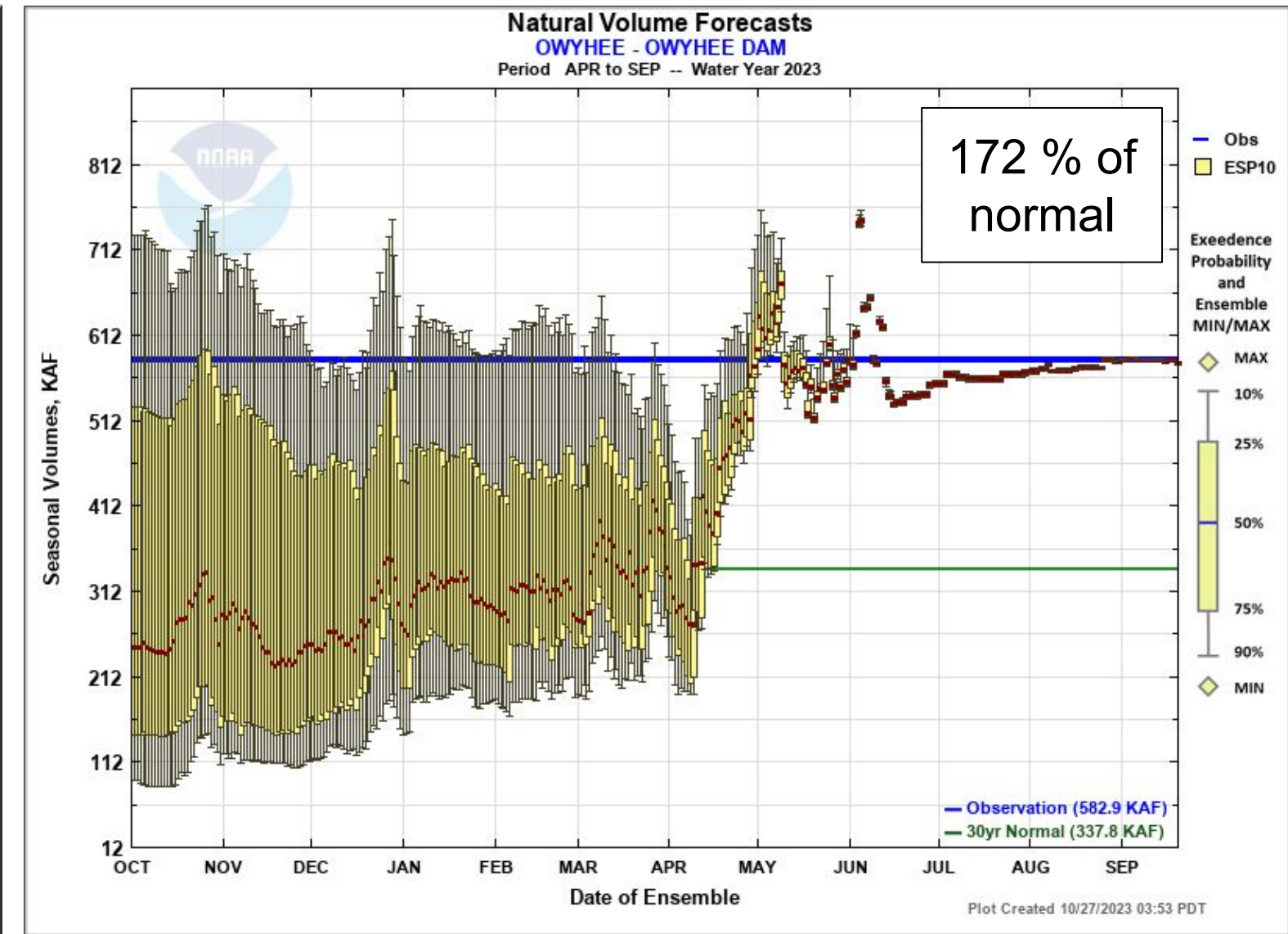
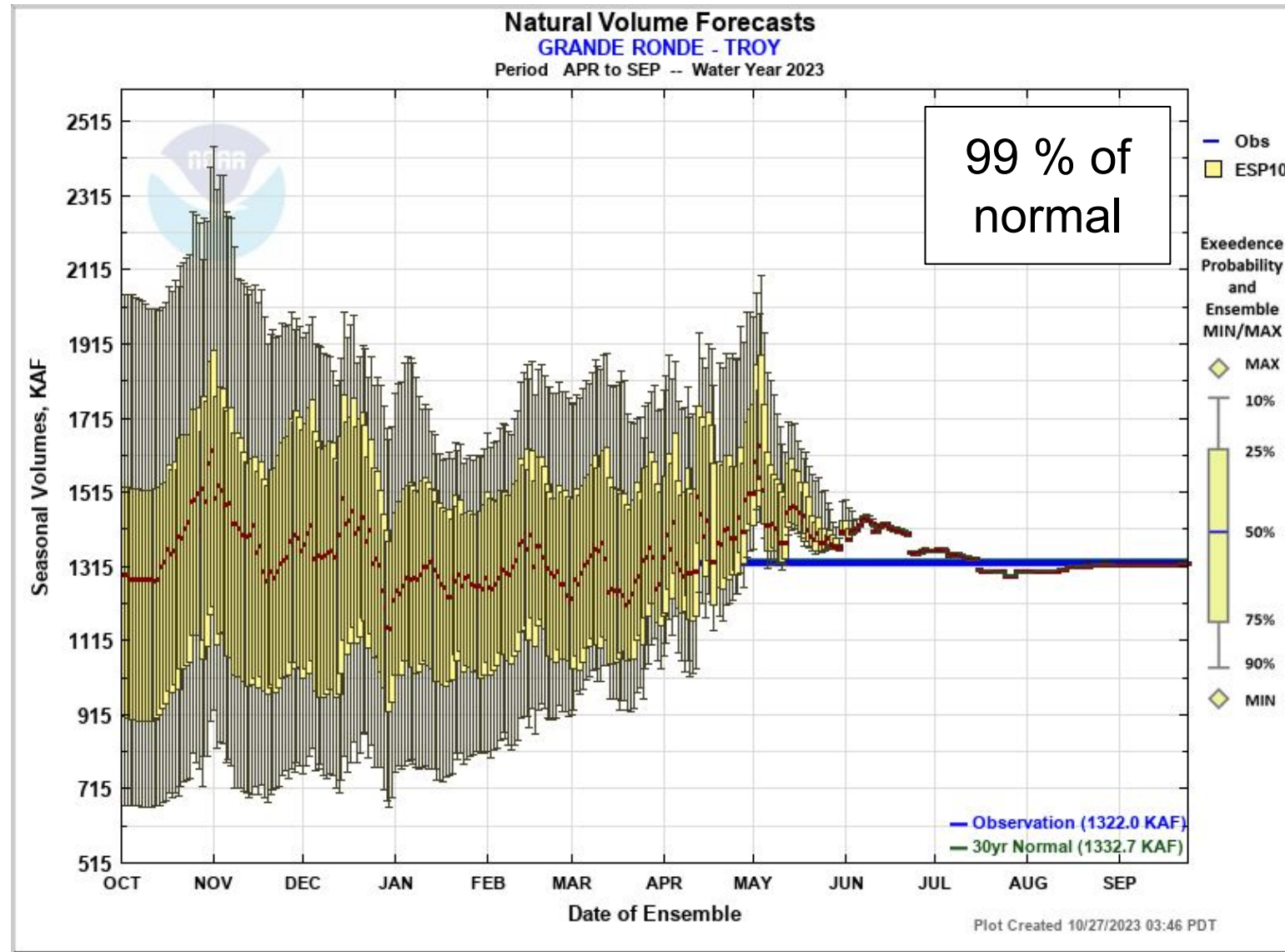
# Oregon Volume Forecast Examples





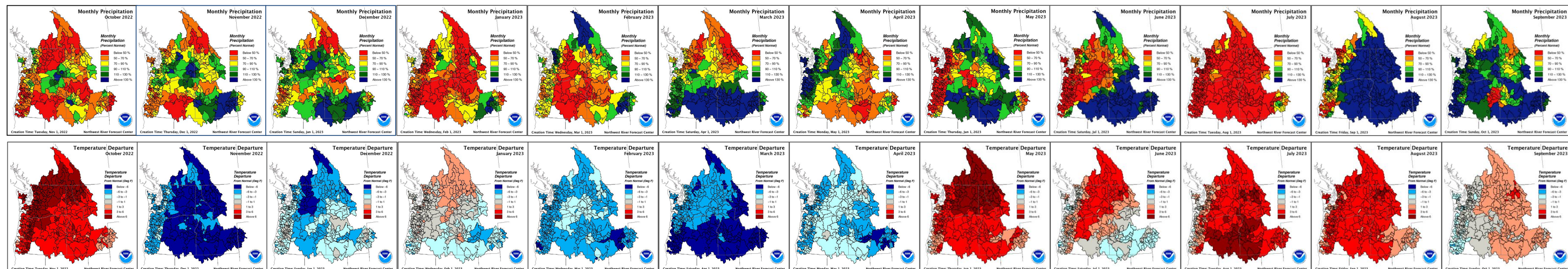


# Oregon Volume Forecast Examples





- Water year 2023 started with low runoff and soil moisture
- When precipitation started it was cold and fell as snow
- Winter runoff remained low as snowpacks built
- May was warm with record snowmelt rates
- Water supply forecasts issued in May were high biased
- Apr - Sep runoff volumes were near to above normal in OR and below normal in WA

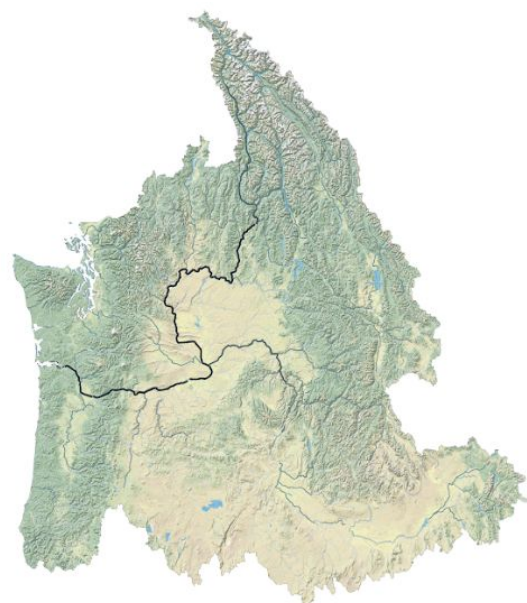






# Questions?

November 2, 2023



**Amy Burke**  
**Senior Hydrologist**  
**Northwest River Forecast Center**

Monthly Water Supply Briefings First Thursday of Each Month

[nwrfc.noaa.gov/water\\_supply/ws\\_schd.cgi](http://nwrfc.noaa.gov/water_supply/ws_schd.cgi)

| Jan | Feb | Mar | Apr | May | Jun |
|-----|-----|-----|-----|-----|-----|
| 4   | 1   | 7   | 4   | 2   | TBD |

All presentations held at 10:00 am Pacific Time unless noted otherwise



[nwrfc.watersupply@noaa.gov](mailto:nwrfc.watersupply@noaa.gov)



(503) 326-7291



[nwrfc.noaa.gov](http://nwrfc.noaa.gov)