



Chris Smallcomb

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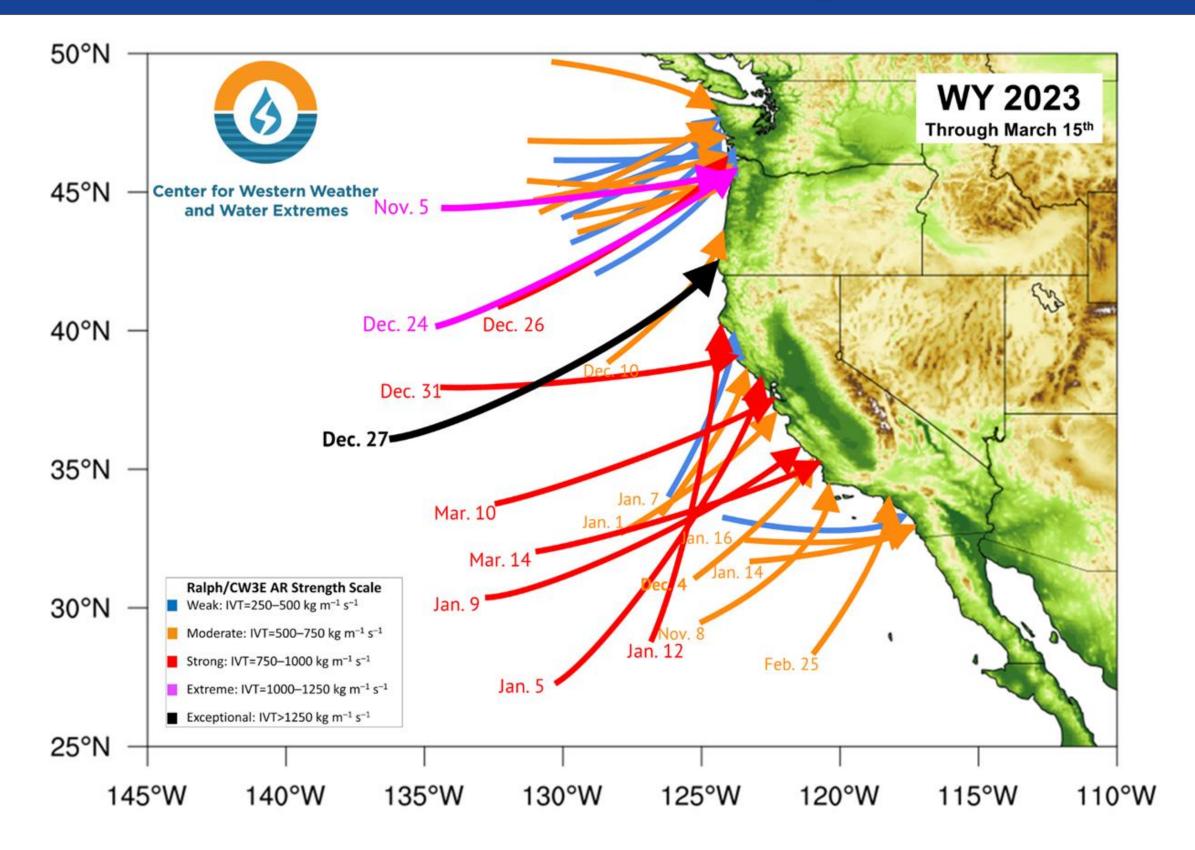
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Wow! That was a "once in a career" winter!





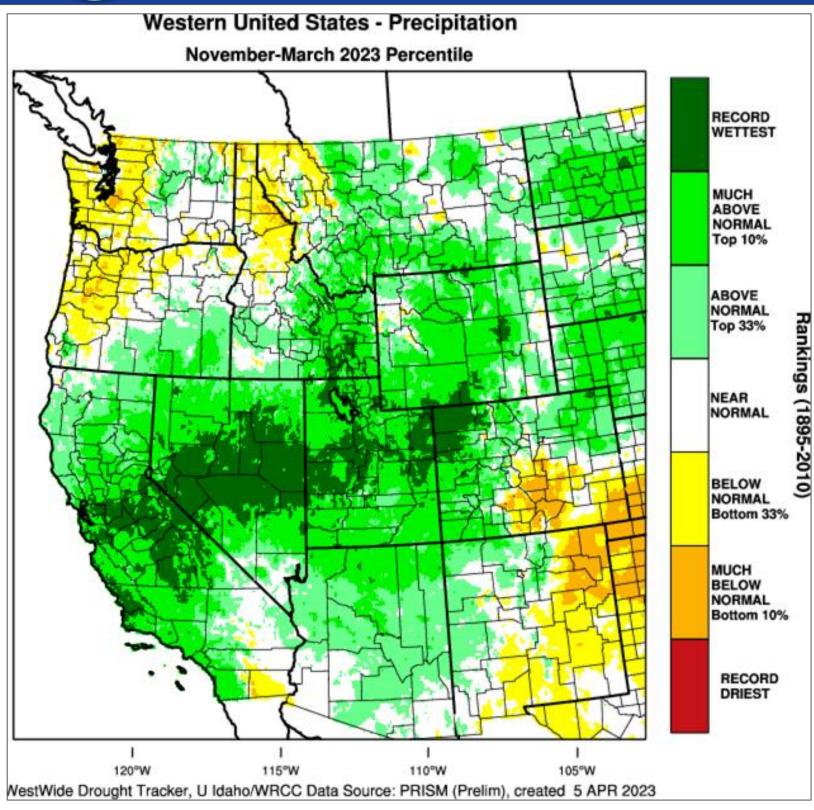
Winter 2022-23 - Wet & Prolonged Cold

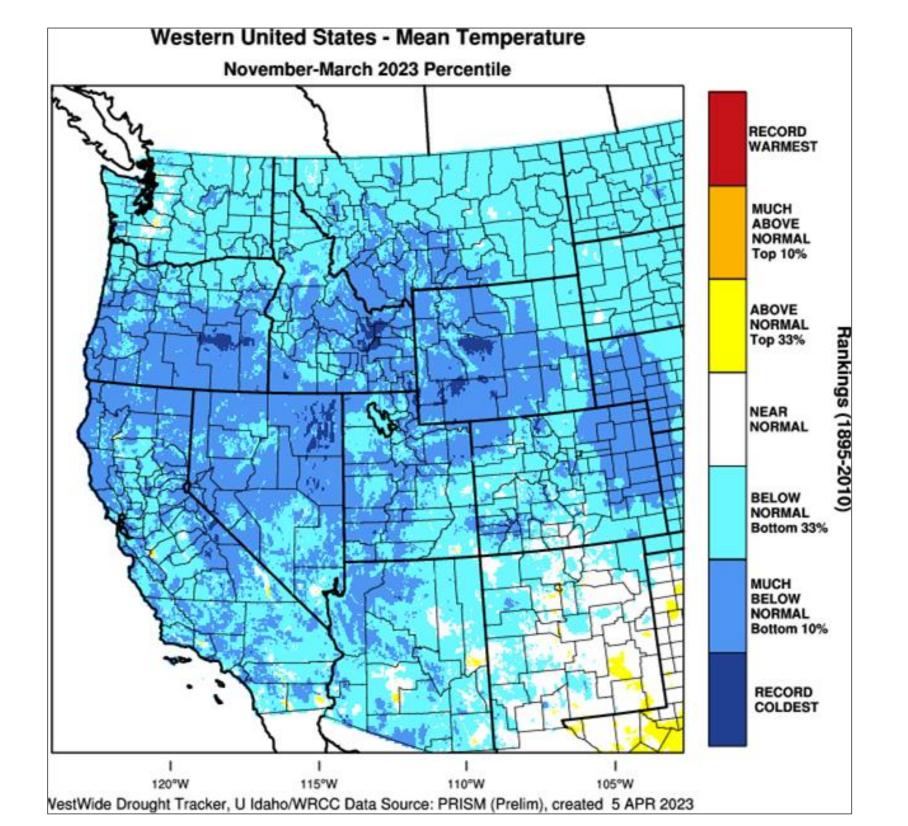


Several strong to extreme atmospheric rivers made landfall into California. These heavy precipitation storms combined with <u>no rain shadow</u> & <u>colder than normal</u> temperatures led to a historic snowpack.



Winter 2022-23 - Wet & Prolonged Cold







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Days with high temp of 65°+ at Reno 11/1 - 4/5.

First time on record back to 1894!

Normally we have 23 such days!

4.64"

Minden's 24-hour precip ending New Year's morning.

Heaviest 1-day precip on record, back to 1906!

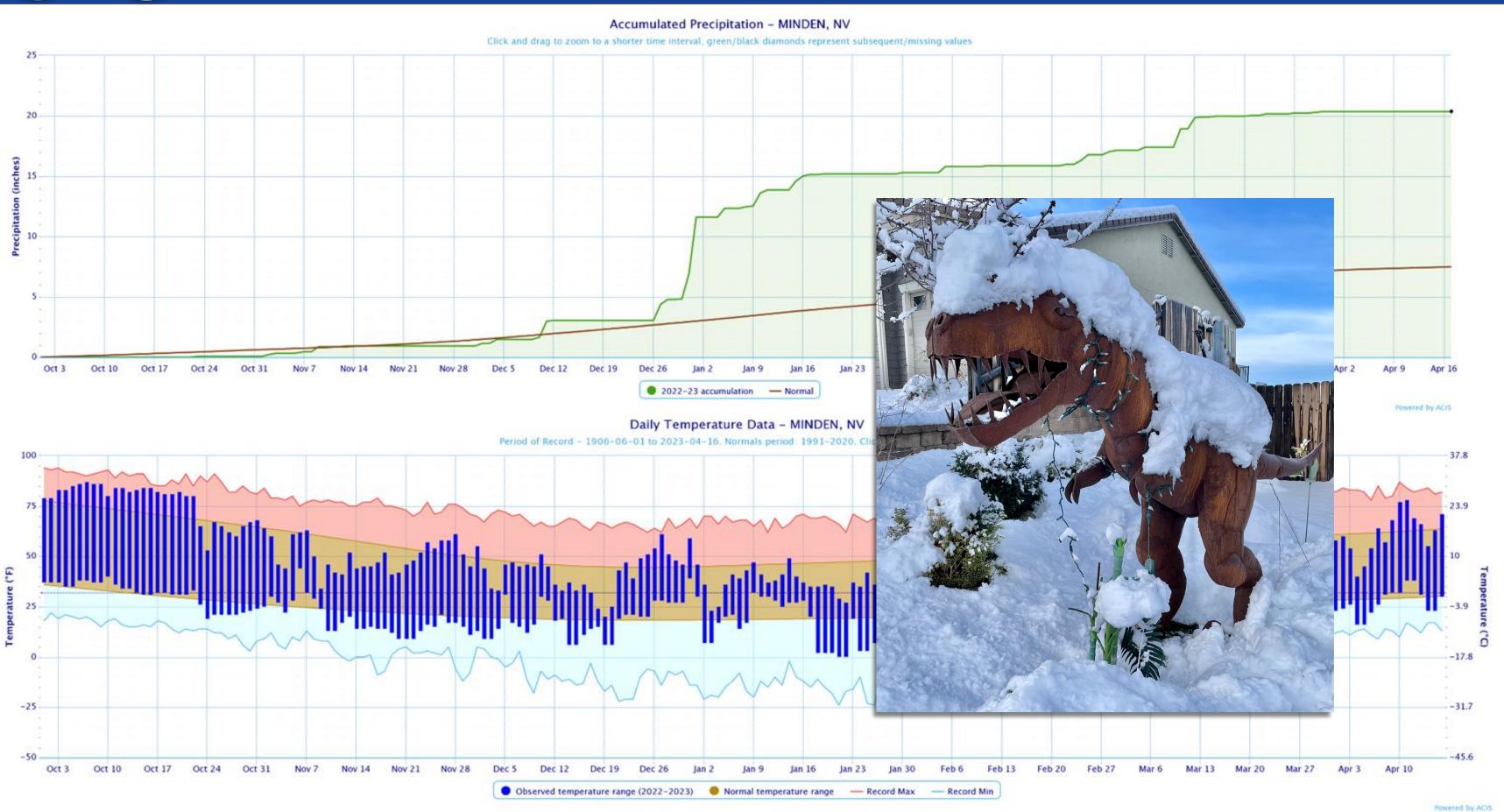
71.2"

Minden's snowfall since October 1st. 2nd only to 1910.



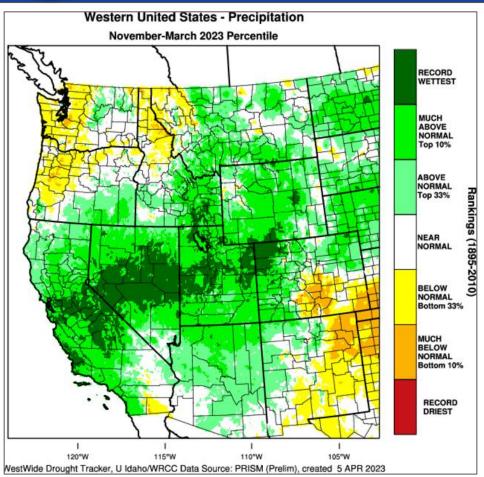


Christmas to New Year's Storms Were Enormous

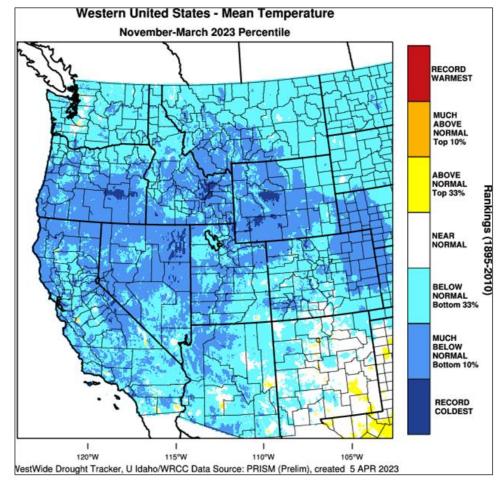


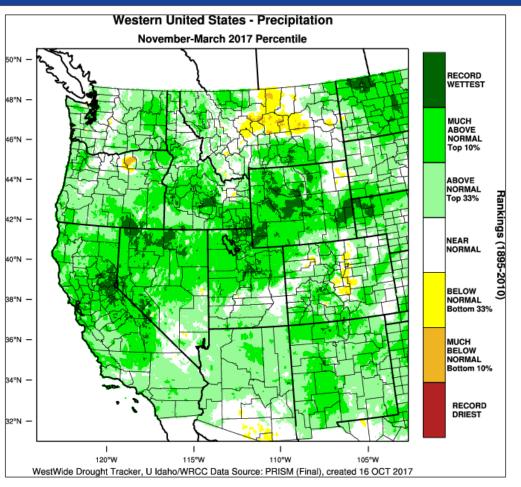


Two Super Wet Years: 2023 vs 2017

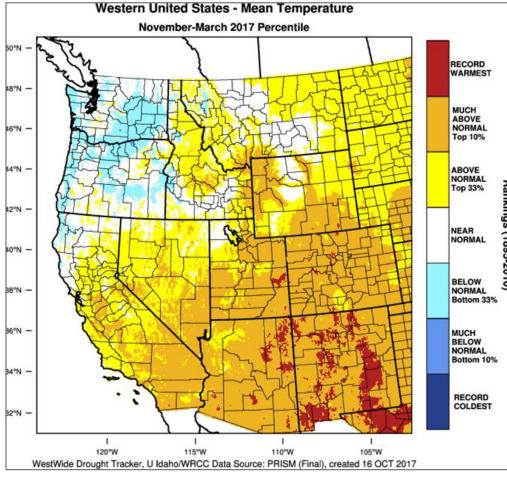


2023



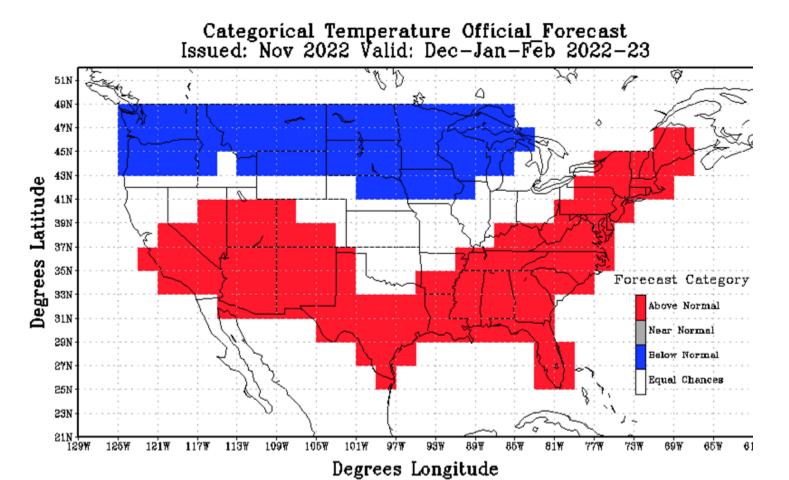


2017

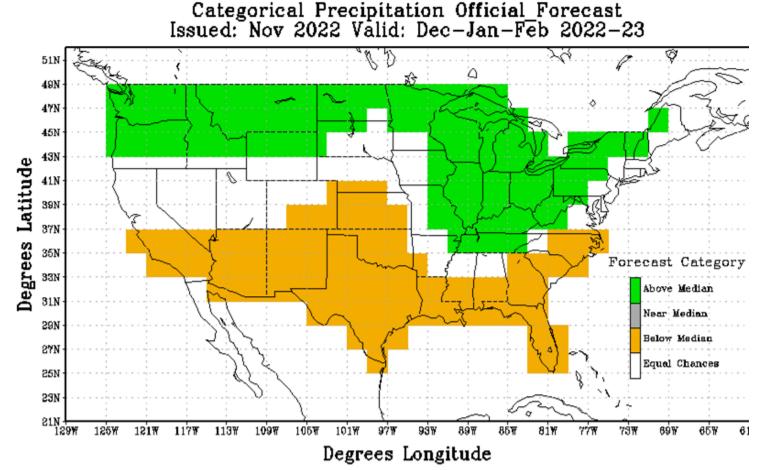


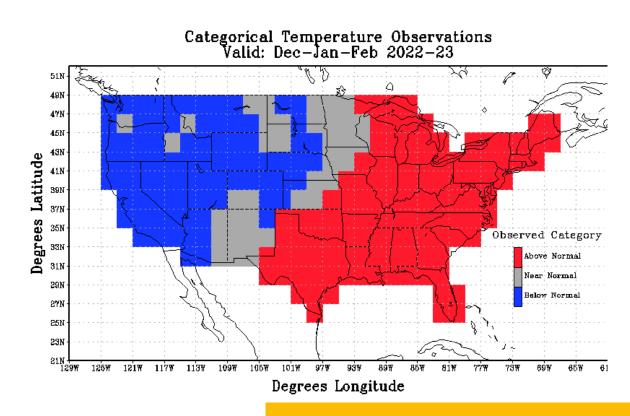


Massive Climate Anomaly - How Did Forecasts Do?

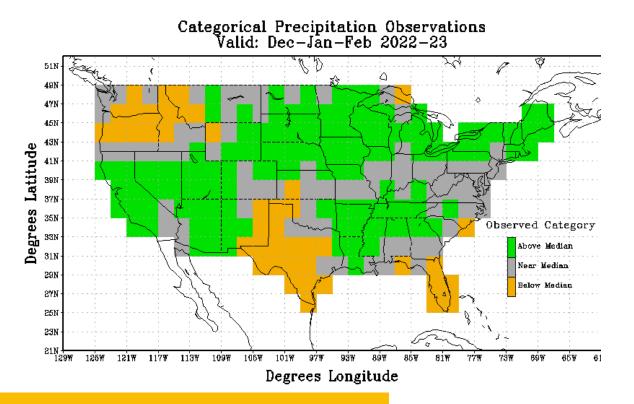








How it's going.

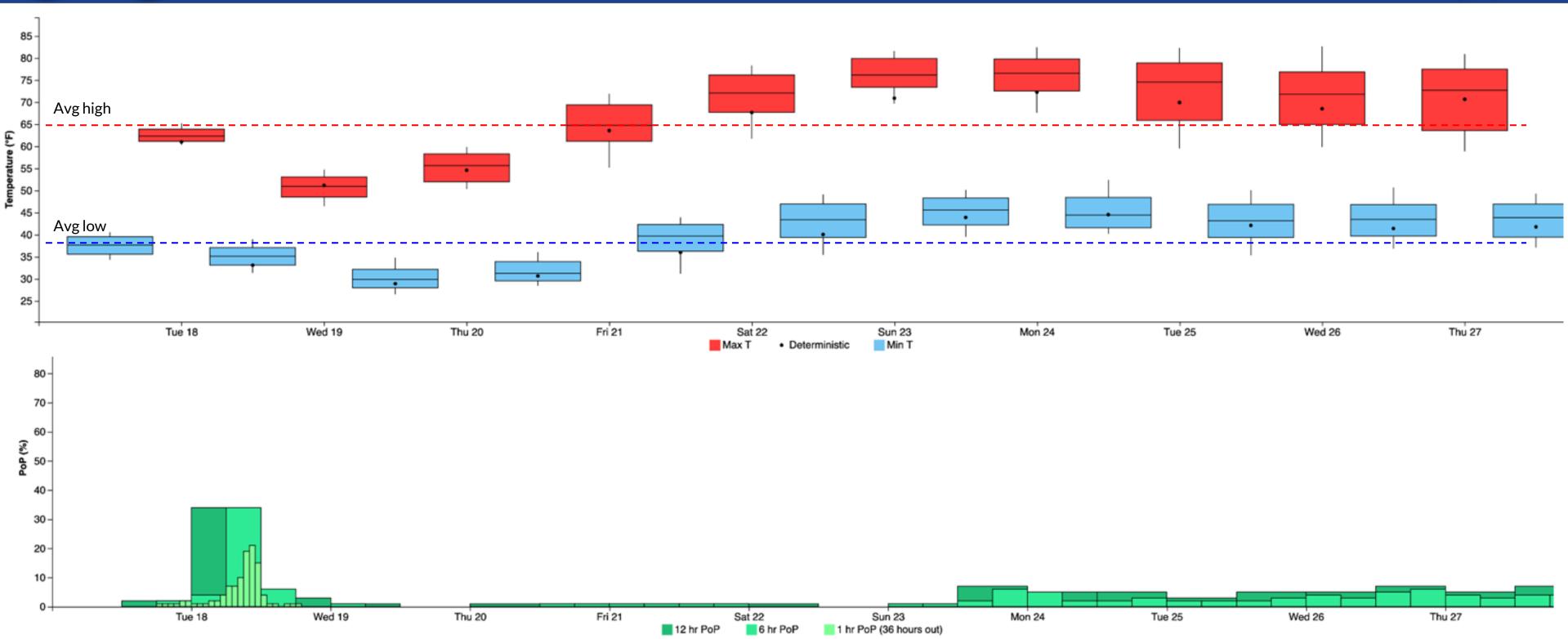


Seasonal forecasts: too good to ignore, but not good enough to use.





Next 7-10 Days: Mostly Dry With Up & Down Temps

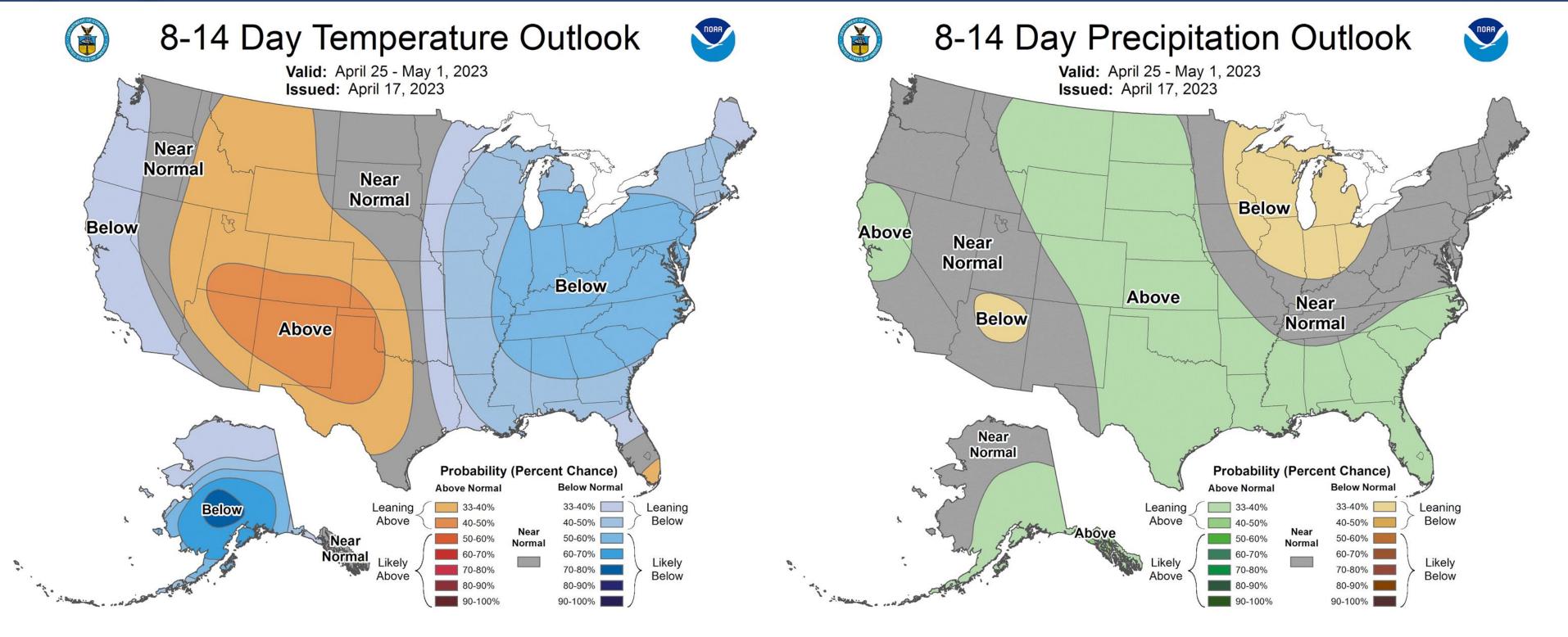


Forecast guidance for Reno-Carson City area, as of 4/17 AM.

Snowmelt continues to be rather gradual with cool/warm cycles and no big heat or rain.



Week Two: Typical Late April Weather



Week two outlook showing **no screaming signals** for anomalous heat/cold nor wet/dry.

Likely continues trend of a relatively gradual melt of snowpack.



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Next 1-2 Weeks: Atmospheric Rivers?

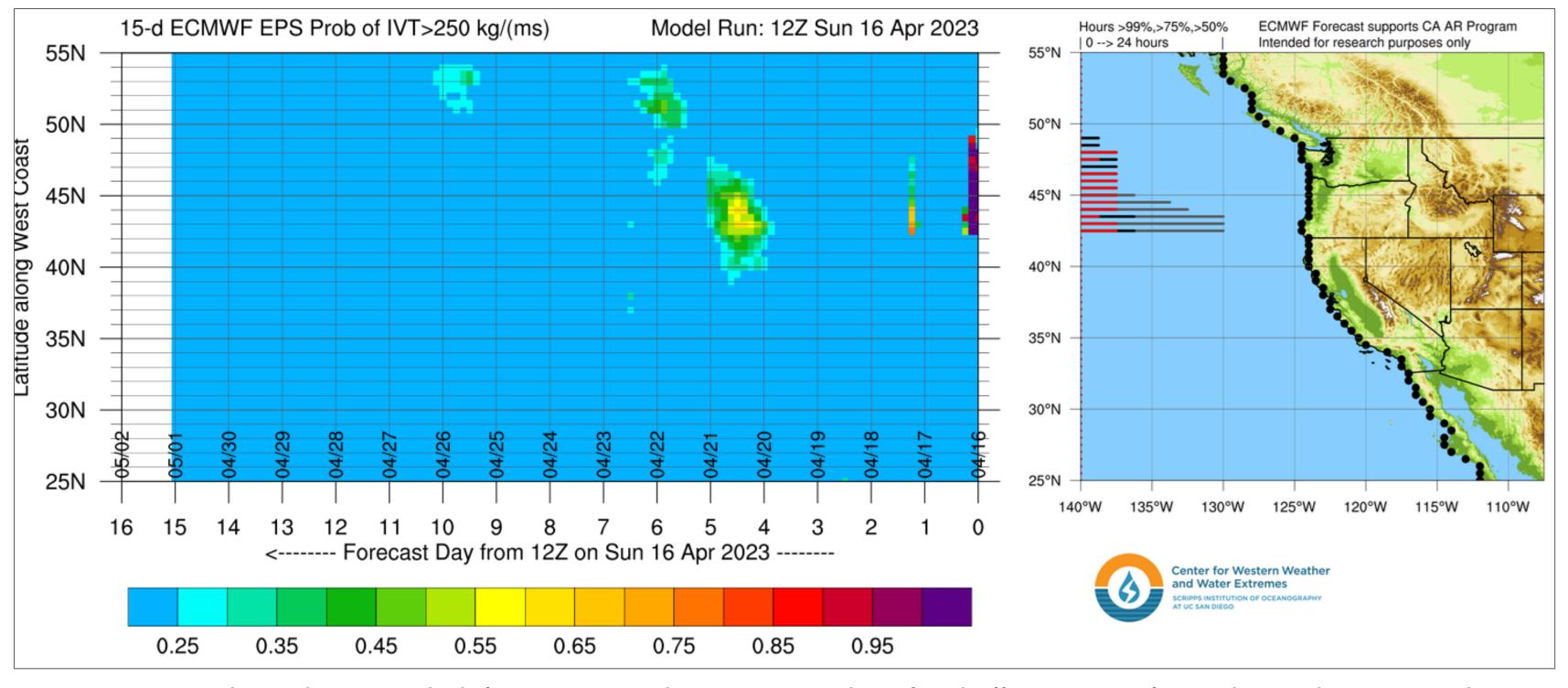


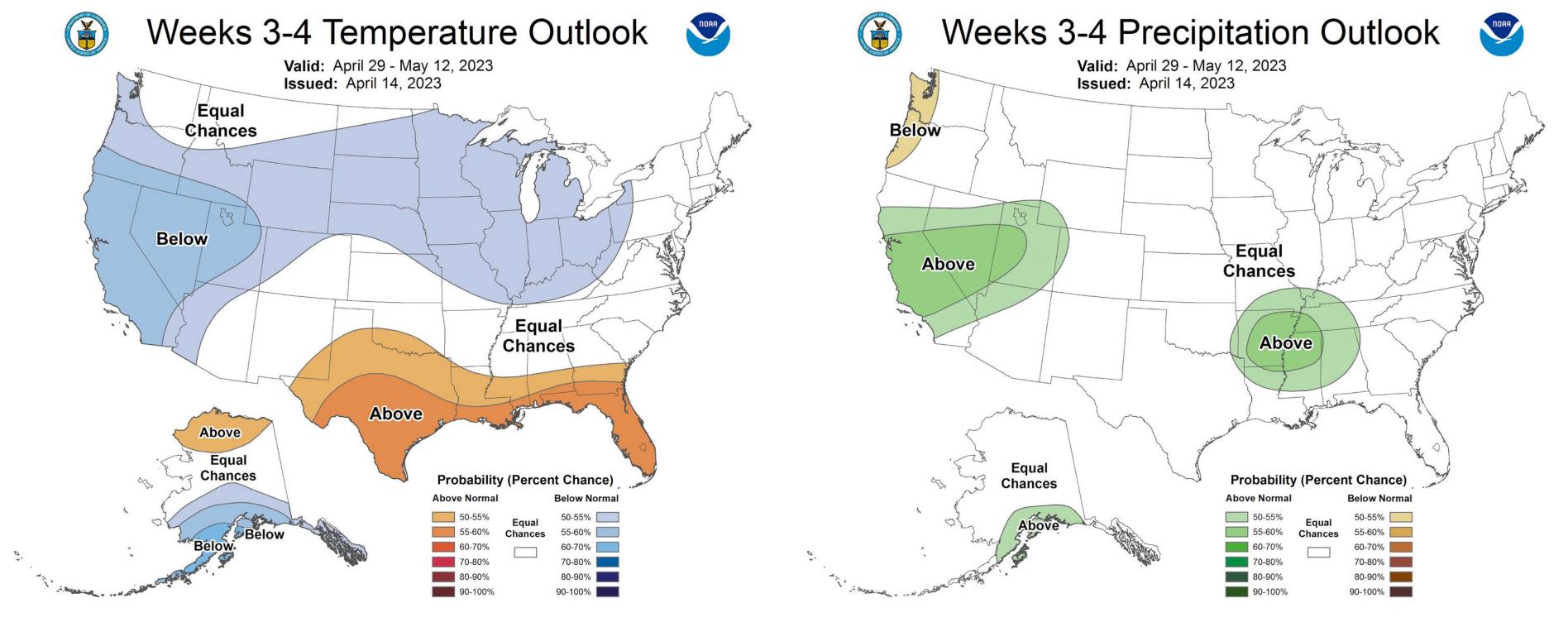
Chart shows probability of atmospheric river making landfall at various latitudes and out to 16 days.

Chart is mostly quiet - pretty typical as we head later into April and May.

Wet Pacific storms remaining north of our region.



Balance of April: Week 3-4 Outlook



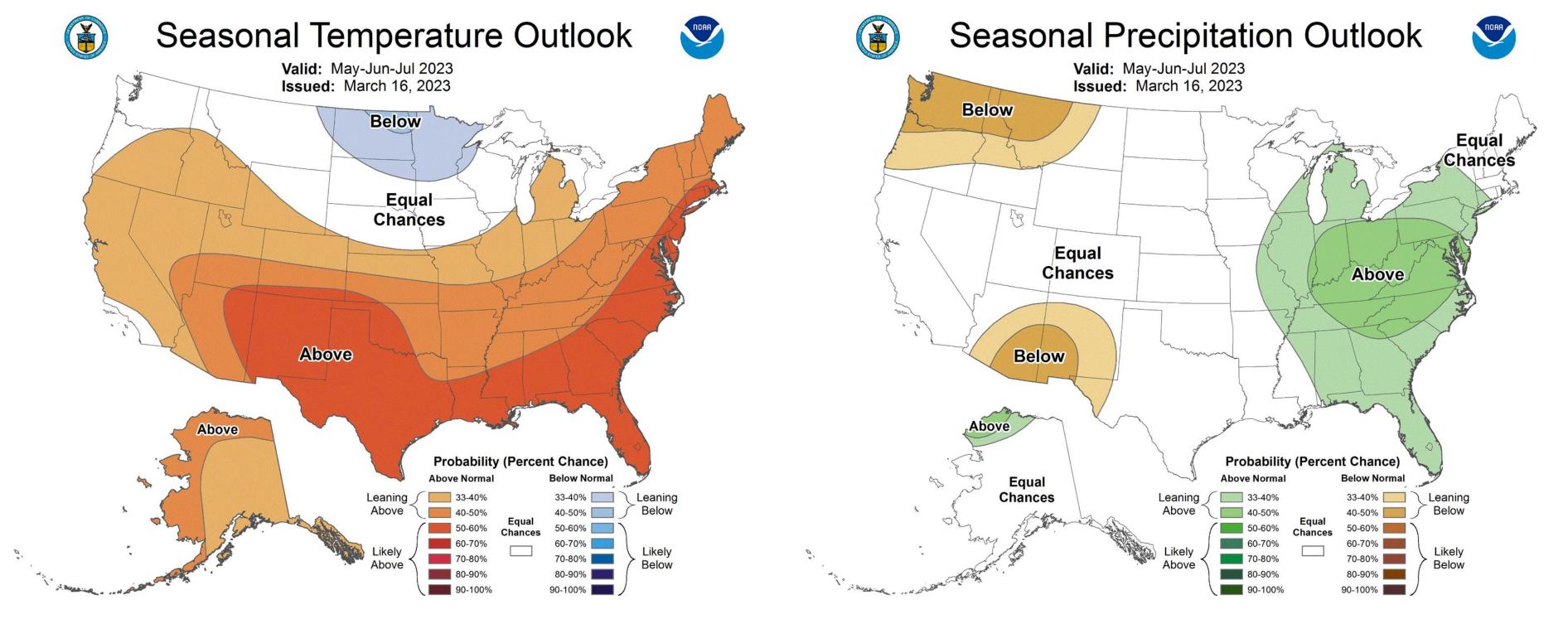
Storm door remains at least slightly open into early May.

Note: averages this time of year are low, so doesn't take much to be "above normal"

Leaning of near to below normal temps = snowpack melt remains gradual. Is that good or not?



Peak Melt Season: May-June-July

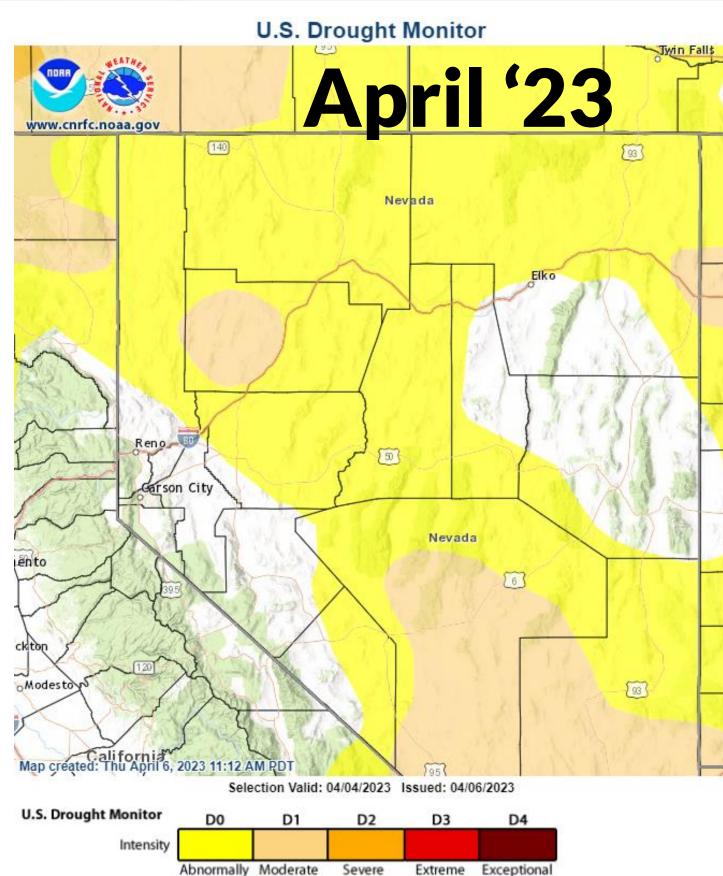


Precip: No favored outcome. Some signs the monsoon may be less active than last year.

Temps: Leaning above normal but not a high confidence scenario - "cooler winter pattern" may linger. Good news for snowmelt as that keeps the door open to a more gradual melt scenario.



Drought - Don't Let the Door Hit You on the Way Out!

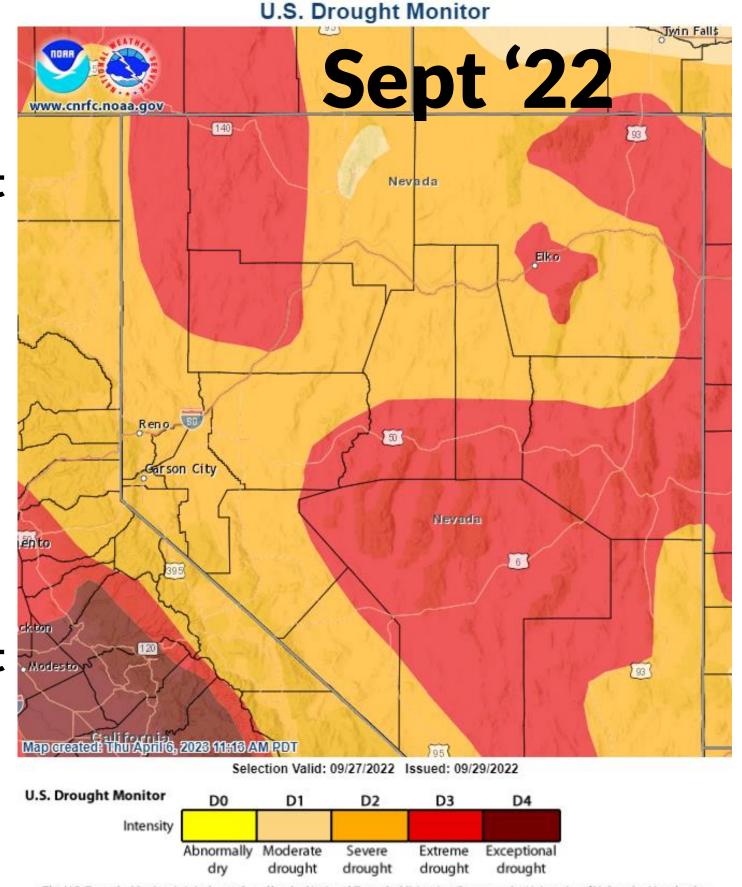


100%

Portion of the Great Basin under D1+ drought status at start of this water year.

25%

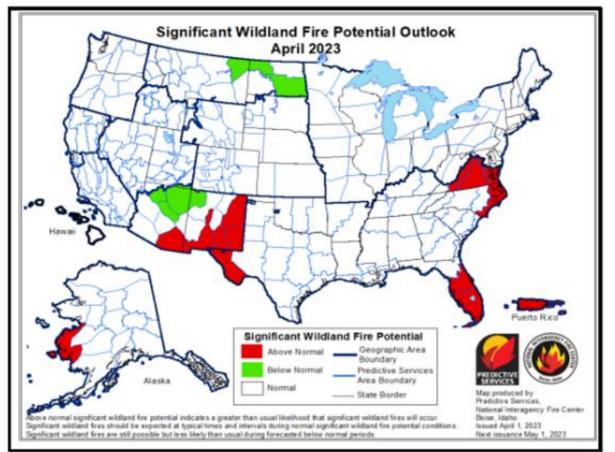
Portion of the Great Basin under D1+ drought status right now.

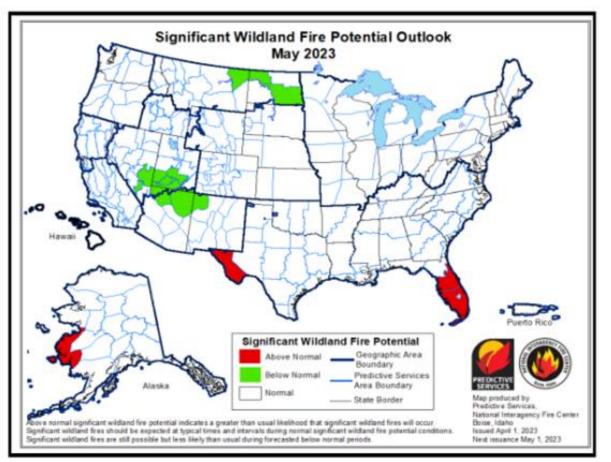


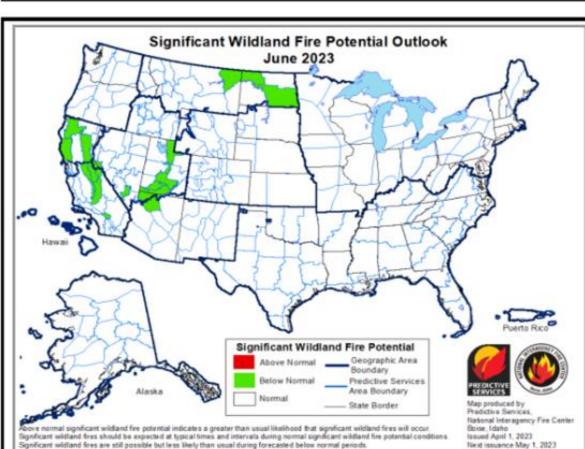
The U.S. Drought Monitor is jointly produced by the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture, and the National Oceanic and Atmospheric Administration. Map courtesy of NDMC-UNL

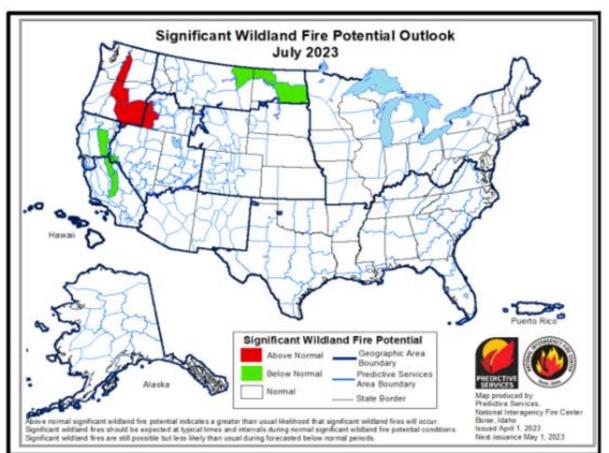


Official Predictive Services Outlook through July





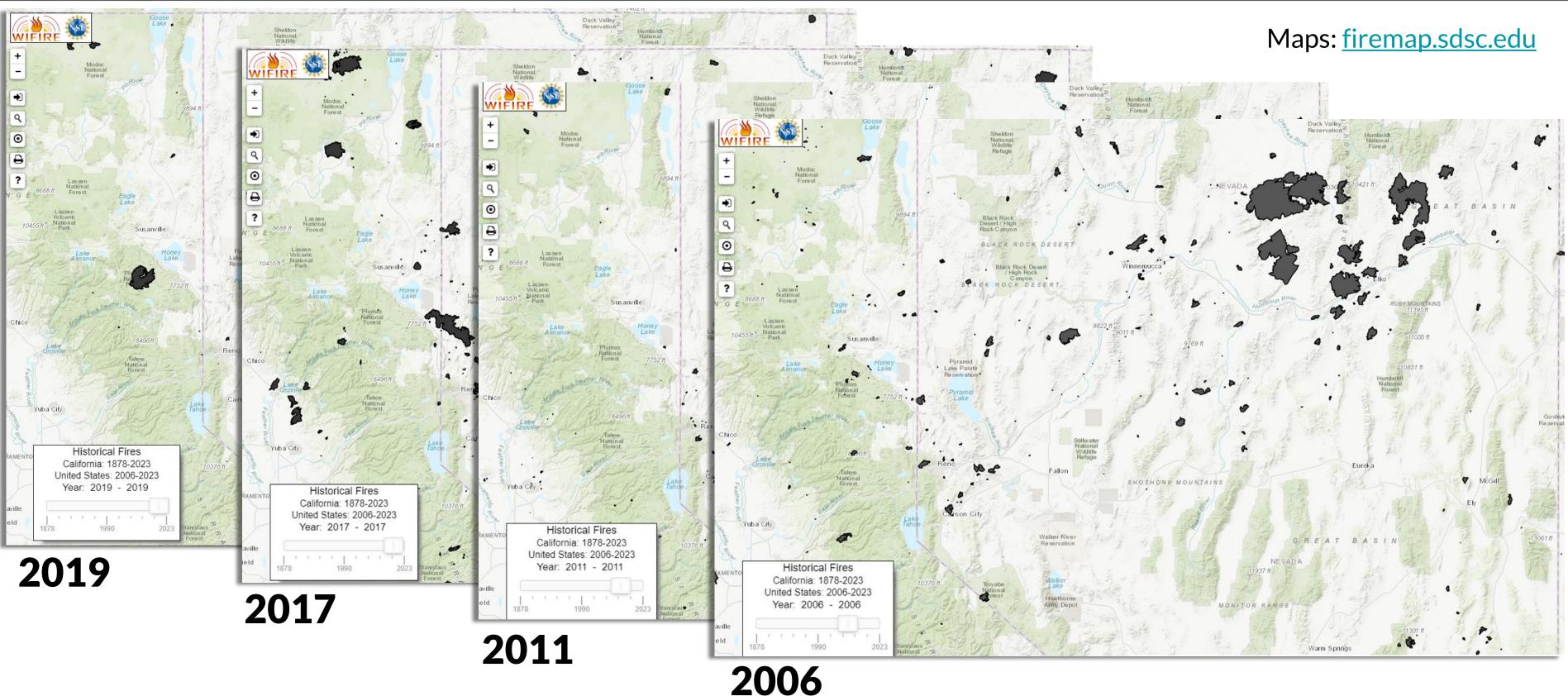




- First time in many years that we have green "below normal" in the Sierra!!!
- **Delayed start in mountains** for sure, but TBD on activity late summer & autumn.
- **Note that Great Basin is** "near normal". If we end up with a hotter June-July, a quick ramp up in fire activity is possible.
- **Oregon-Washington is** probably where things will take off the soonest this summer: less winter precip, continued drought.



What Have Other Recent Big Snow Years Done?



Mountain fire activity normally limited and/or delayed following big snow winters. Drought tree kill adds a huge wildcard.

Great Basin areas can be more active due to increased fine fuels & grasses, but not a guarantee.



- Streams will be high, cold, and fast well into summer. Some campgrounds near streams could be affected.
- Increased numbers of rescue incidents.
- Lakes and reservoirs will be a lot fuller than in recent years.
- High elevation Sierra passes will open much later than normal.
- Plan on snow sections for early summer mountain trails.
- Maybe consider leaning toward mid to late summer for big backcountry adventures. At least there will be plenty of water!

