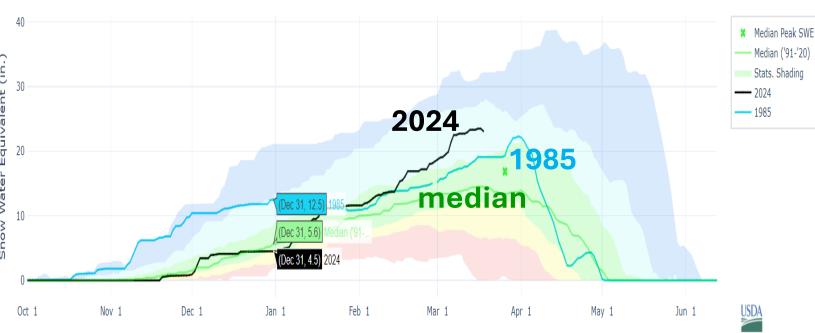


From March 7, 2024 talk: **Snow2Flow Summary based on Kara Ferguson analysis**

Owyhee River snowmelt peak occurs when:

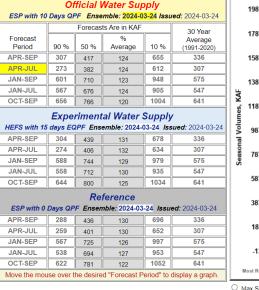
- Mud Flat is ~15% melted (canopy changed)
- South Mnt is ~30% melted (BETTER to USE)



Unfortunately, there is no daily Owyhee River nr Rome streamflow forecast that I could find. If you have one, please share...

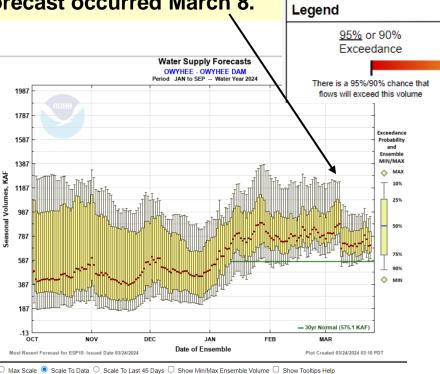
Mar 24 - NWS Owy Dam Apr-Jul forecast is 124% of avg, 382 KAF with a range of 273 to 612 KAF.

They must have updated some of the data layers as a major drop in forecast occurred March 8.

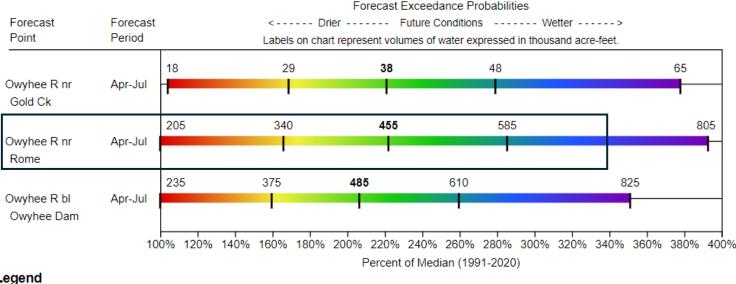


OWYHEE - OWYHEE DAM (OWYO3)

Forecasts for Water Year 2024



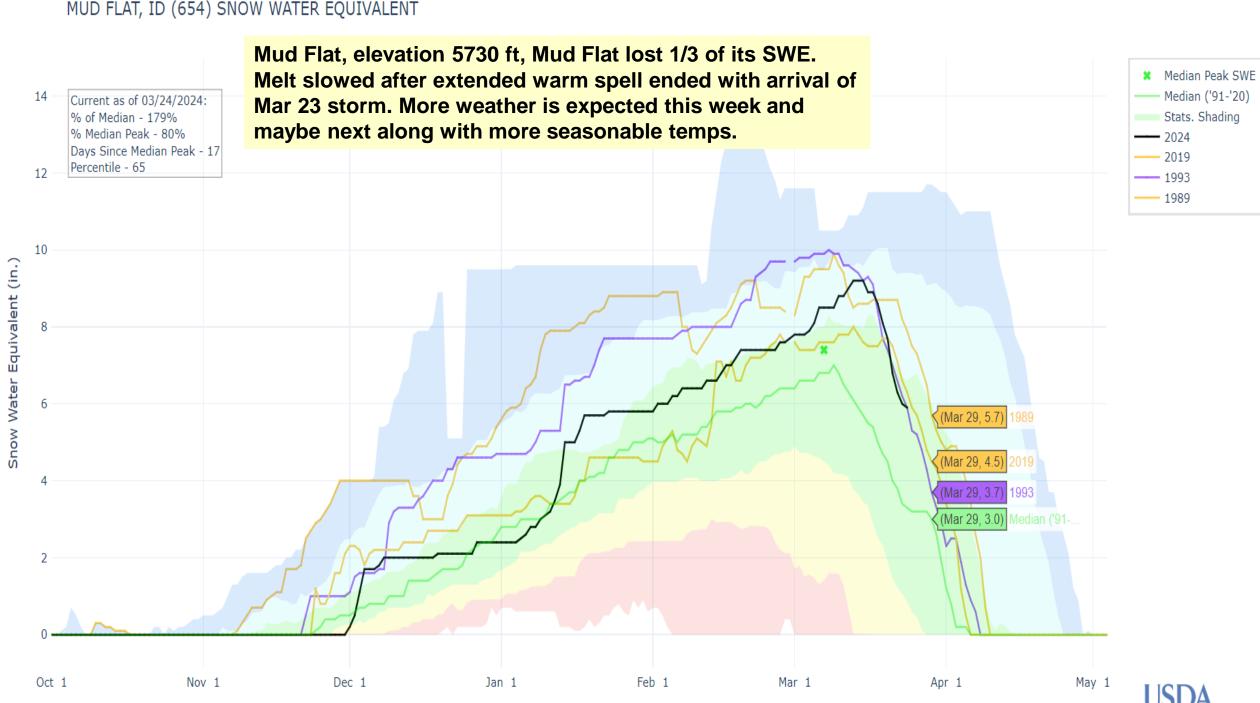
OWYHEE Water Supply Forecasts March 1, 2024

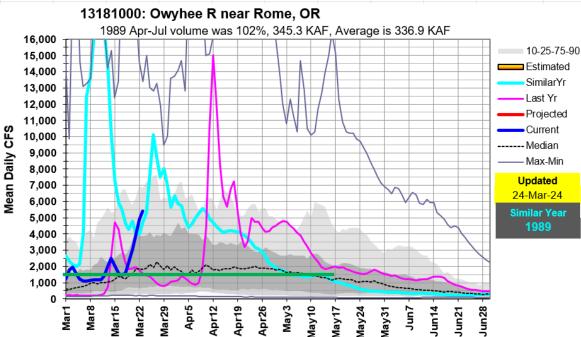


70% 50% 30% 10% or 5% Exceedance Exceedance Exceedance Exceedance There is a 70% chance that There is a 50% chance that There is a 30% chance that There is a 10%/5% chance that flows will exceed this volume flows will exceed this volume flows will exceed this volume flows will exceed this volume

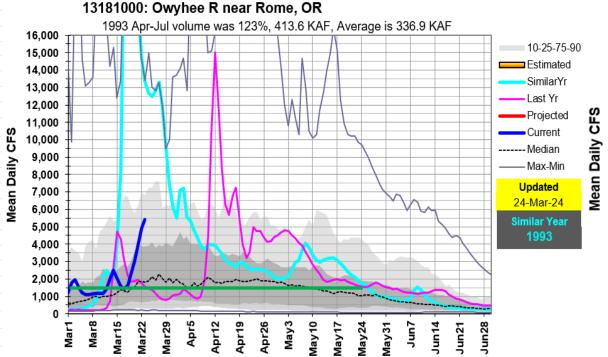
Mar 1 – NRCS Owy R nr Rome Apr-Jul forecast was 163% of avg, 455 KAF with a range of 340 to 585 KAF.

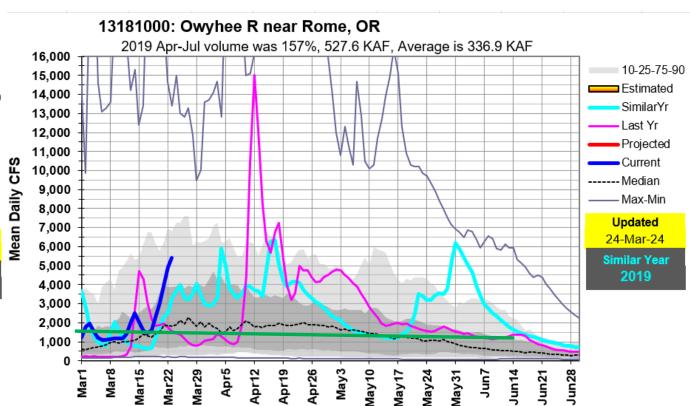
With near normal March precip so far, lets assume these volumes are still valid.





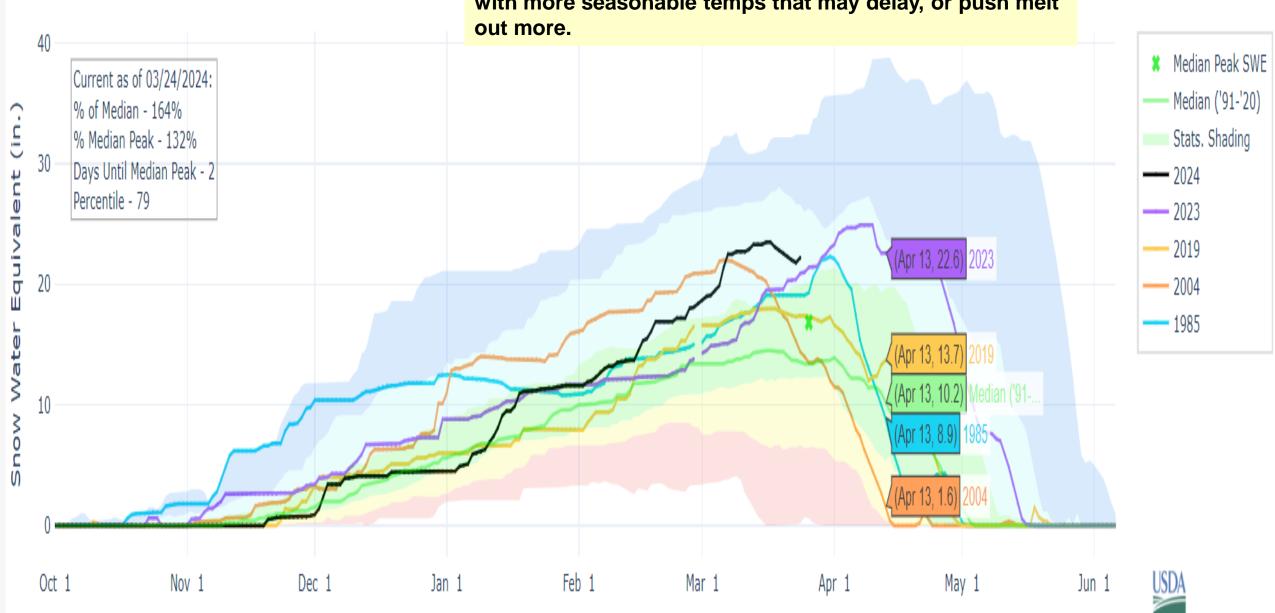
Runoff for similar SWE years as Mud Flat.
Based on these 3 years that had Apr-Jul runoff volumes of 345, 413 and 527 KAF, flows remained above 1500 cfs into mid-May even ignoring the wet late May bonus event in 2019 below.
NRCS volume forecast was for 455 KAF.

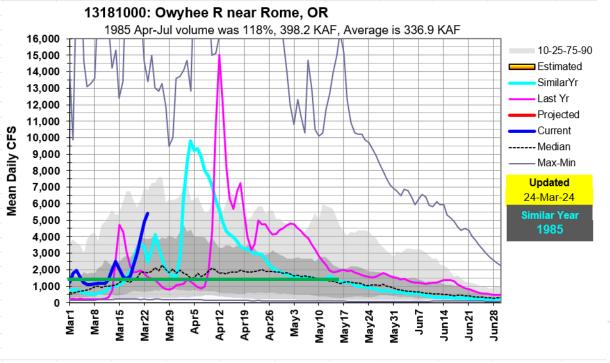


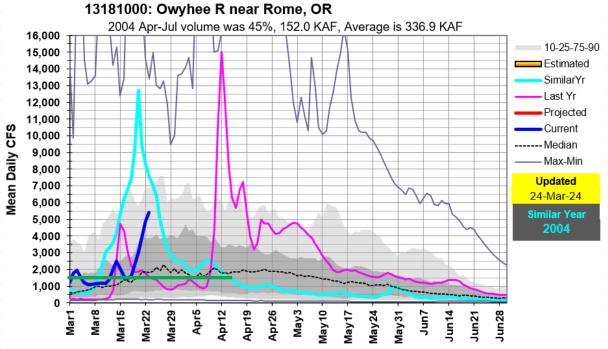


SOUTH MTN., ID (774) SNOW WATER EQUIVALENT South Mnt., elevation 6400 ft, spell and gained a tad with ret temps Mar 23. More weather e with more seasonable temps to out more.

South Mnt., elevation 6400 ft, lost a bit of SWE after warm spell and gained a tad with return of storm and freezing temps Mar 23. More weather expected this week and along with more seasonable temps that may delay, or push melt out more.





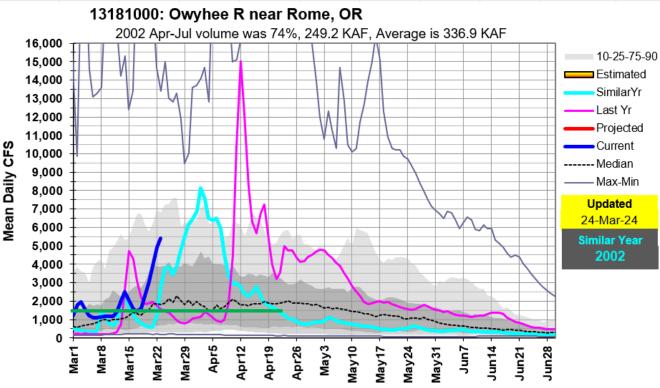


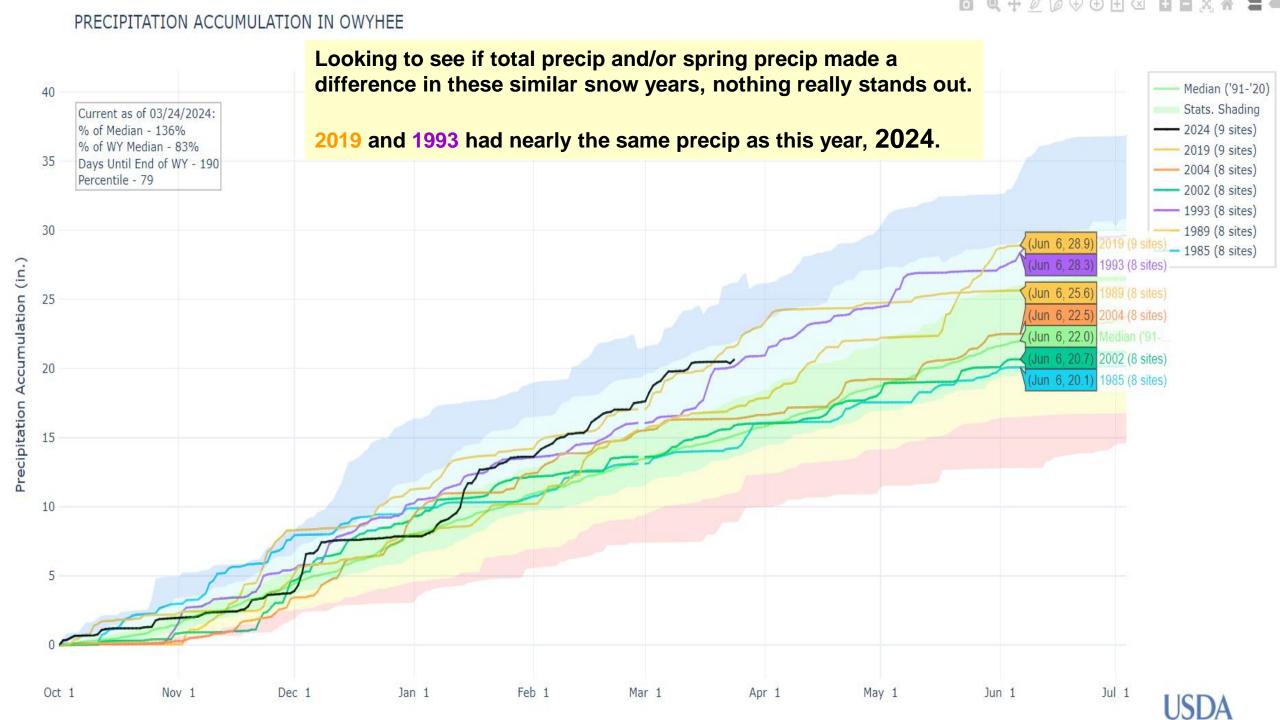
Runoff for similar SWE years as South Mnt..

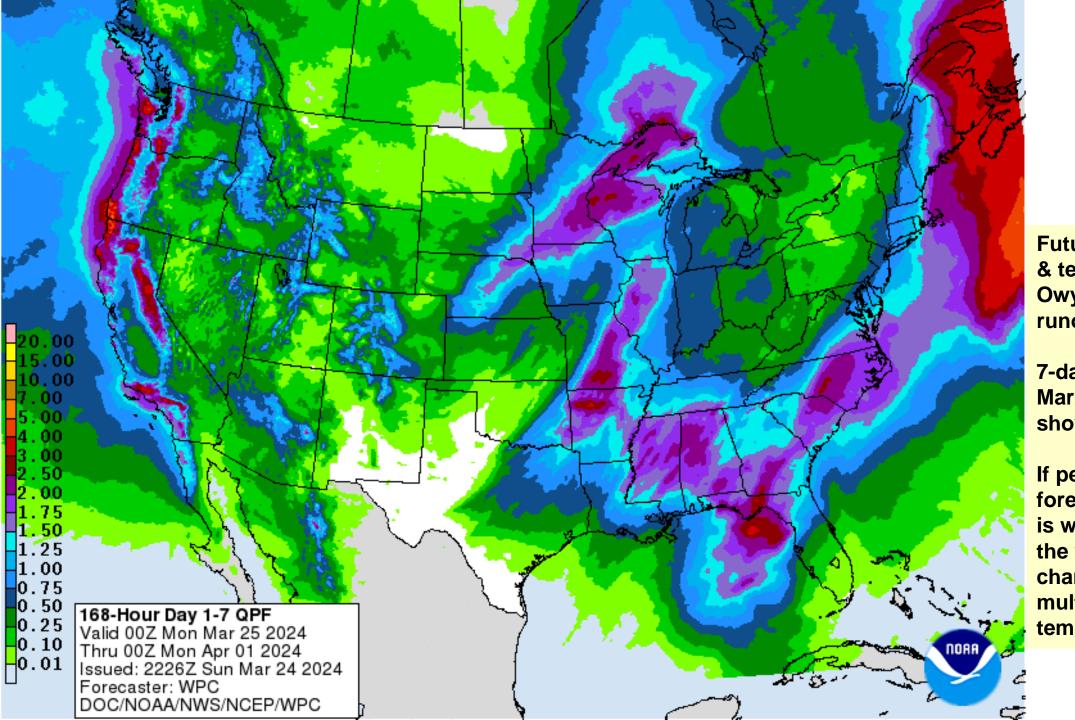
Based on these 3 years that had Apr-Jul runoff volumes of 152, 249 and 398 KAF, flows dipped below 1500 cfs in mid or late April.

NRCS forecast volume was for 455 KAF.

Examples show high variability in this high desert river.



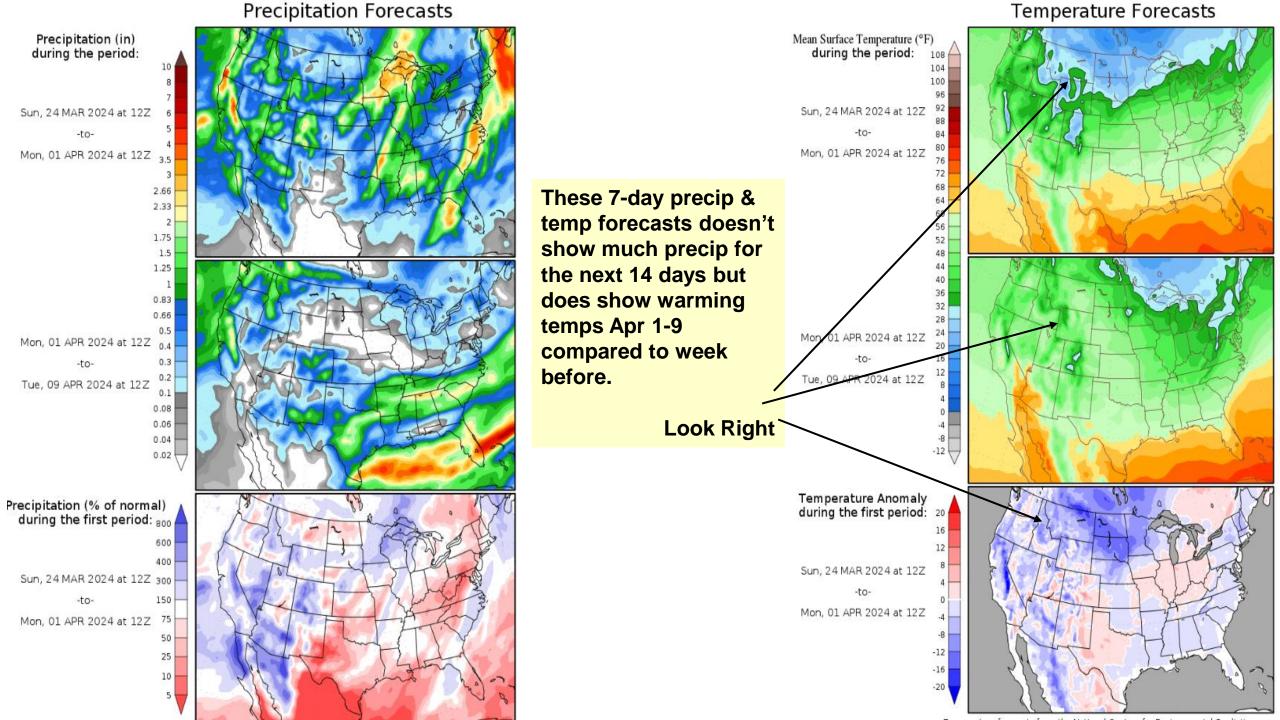


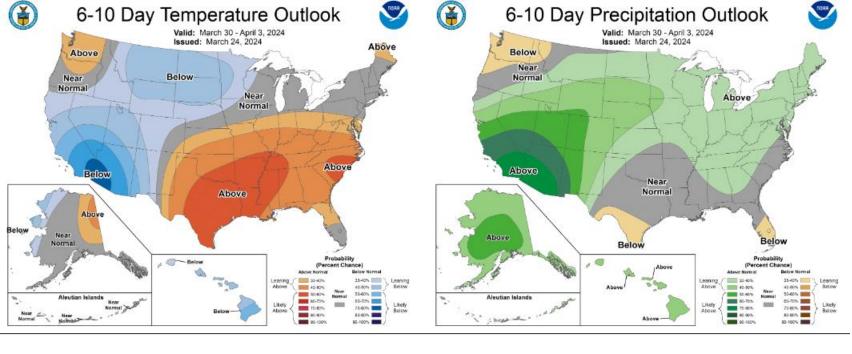


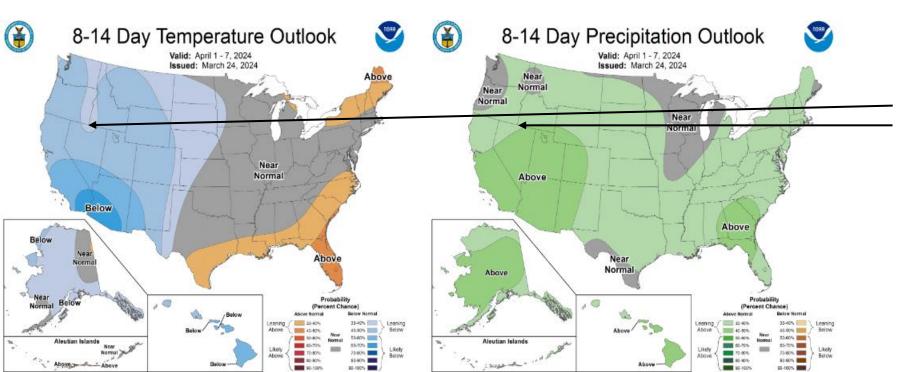
Future weather, precip & temp, will determine Owyhee's reaming runoff season.

7-day total precip Mar25-Apr1 doesn't show much falling.

If persistence is the forecast, what you see is what you get until the weather pattern changes, then expect multiple flow peaks as temps rise and fall.







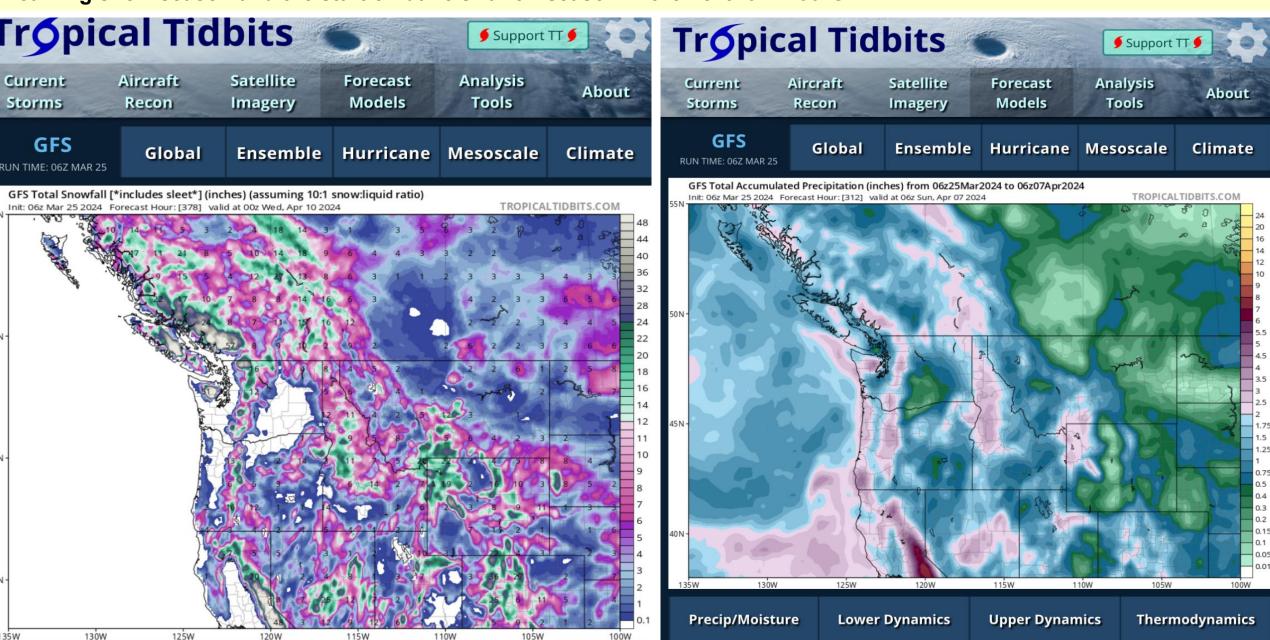
While NWS CPC 6-10 and 8-14 day Outlooks shows a little better chance for cooler & wetter conditions especially for Apr 1-7.

Perhaps models on previous slide hasn't caught up to these early Apr Outlooks yet.

Look Left

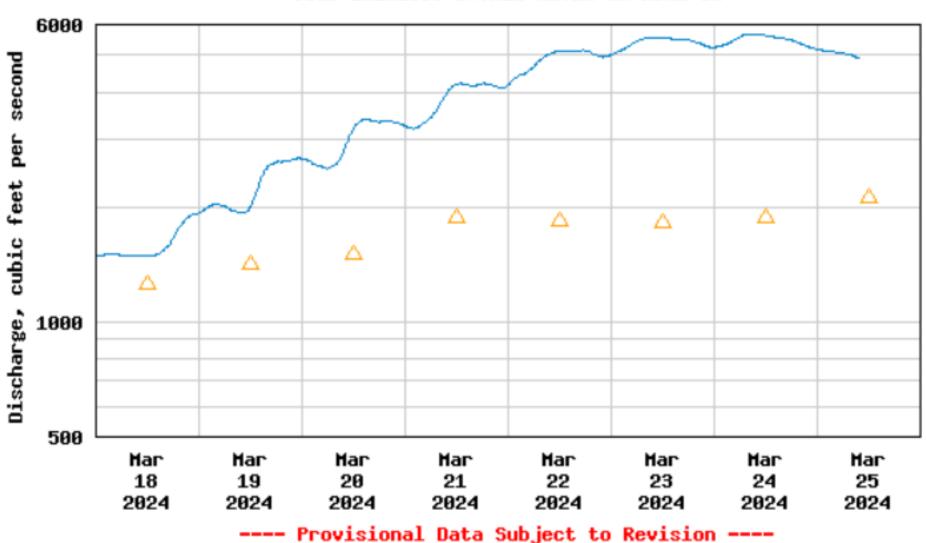
Time will tell!
Keep watching
different weather
outlooks to see what's
on the horizon.

Late last night, the GFS models started showing what the Buoy pop saw a few days ago – potential for storms Apr 3 & 7. GFS runs were run twice for Total Snow and Rain to get a better picture of storm potential. We'll learn a lot about the reaming snow season and the start of Idaho's runoff season in the next few weeks.



Owy is dropping slowly with cooler temps. We'll see what these storms bring to this partially melted out basin. Time will tell!





△ Median daily statistic (74 years) — Discharge