

# Boise Basin iSnobal Modeling



**Idaho Water Supply Committee**  
**January 15, 2026**







Airborne  
Snow  
Observatories



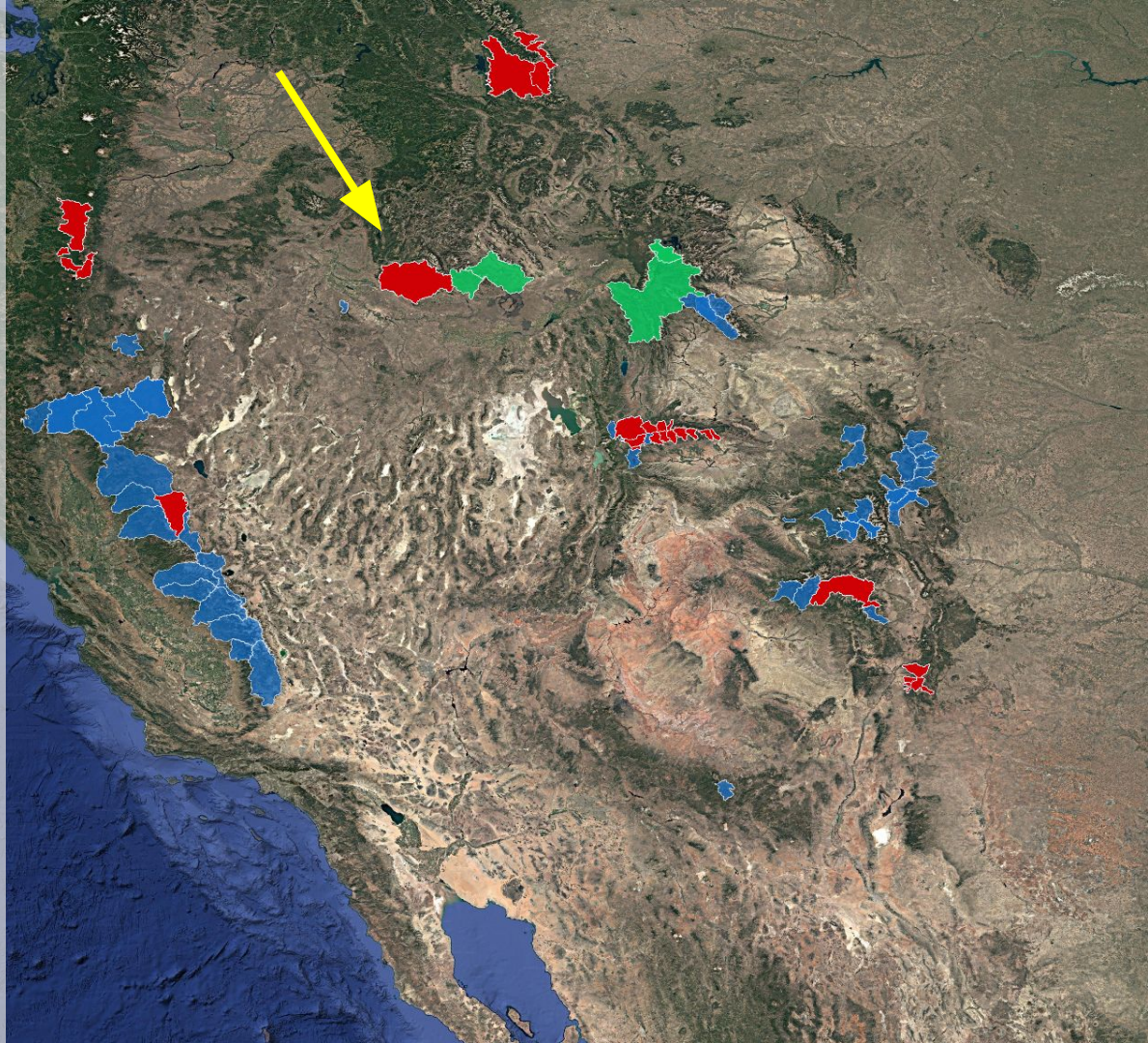
Natural  
Resources  
Conservation  
Service



Idaho Department  
of Water  
Resources

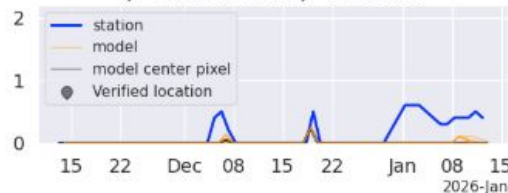


USACE - CRREL





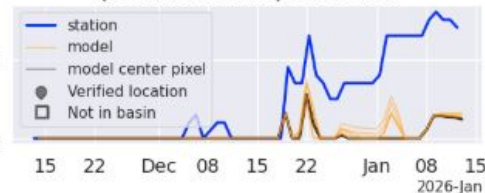
Prairie  
(704:ID:SNTL) 4807 ft.



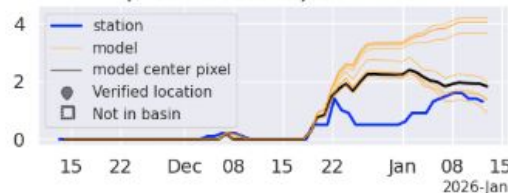
Graham Guard Sta.  
(496:ID:SNTL) 5688 ft.



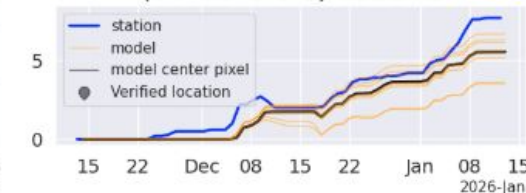
Camas Creek Divide  
(382:ID:SNTL) 5713 ft.



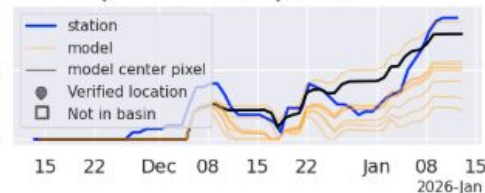
Soldier R.S.  
(769:ID:SNTL) 5774 ft.



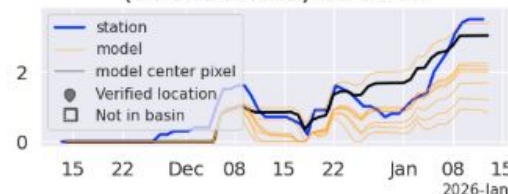
Mores Creek Summit  
(637:ID:SNTL) 6111 ft.



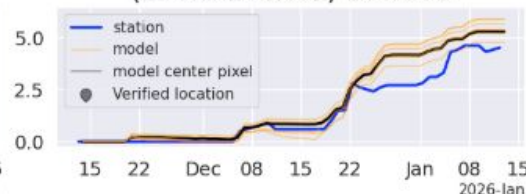
Bogus Basin  
(978:ID:SNTL) 6365 ft.



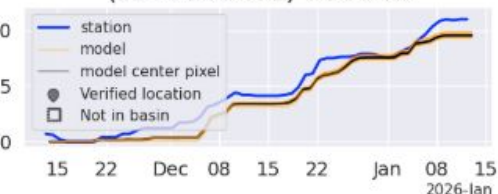
Bogus Basin  
(978:ID:SNTL) 6365 ft.



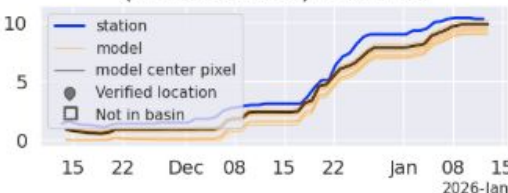
Couch Summit  
(1306:ID:SNTL) 6776 ft.



Jackson Peak  
(550:ID:SNTL) 7080 ft.



Galena  
(489:ID:SNTL) 7491 ft.



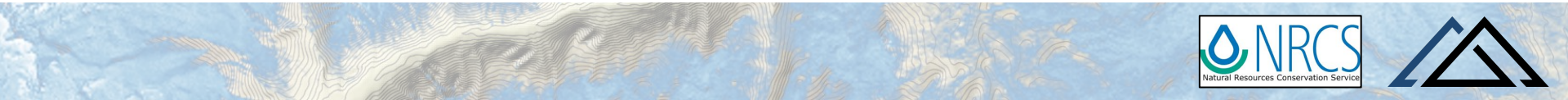
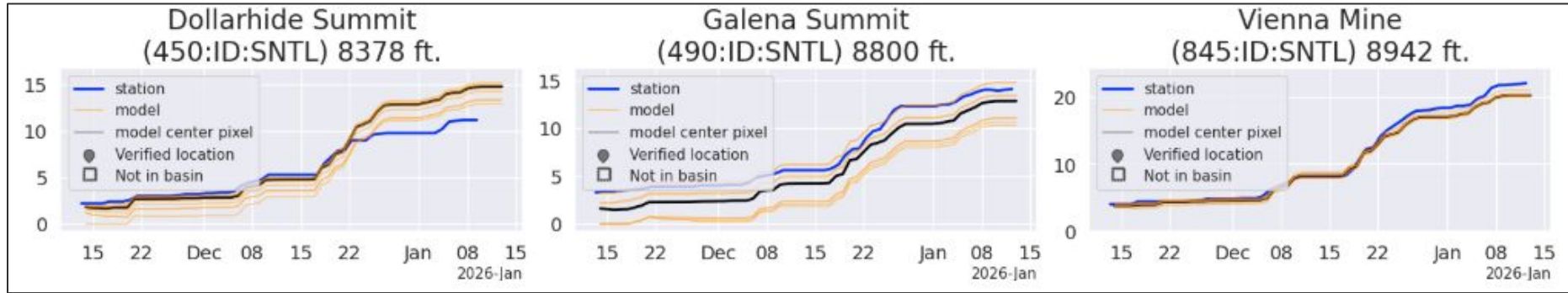
Atlanta Summit  
(306:ID:SNTL) 7580 ft.



Trinity Mtn.  
(830:ID:SNTL) 7795 ft.



# Validation



M3W-iSnobal [TAF]

1000

800

600

400

200

0

0

200

400

600

800

1000

.....

1:1

.....

$\pm 10\%$

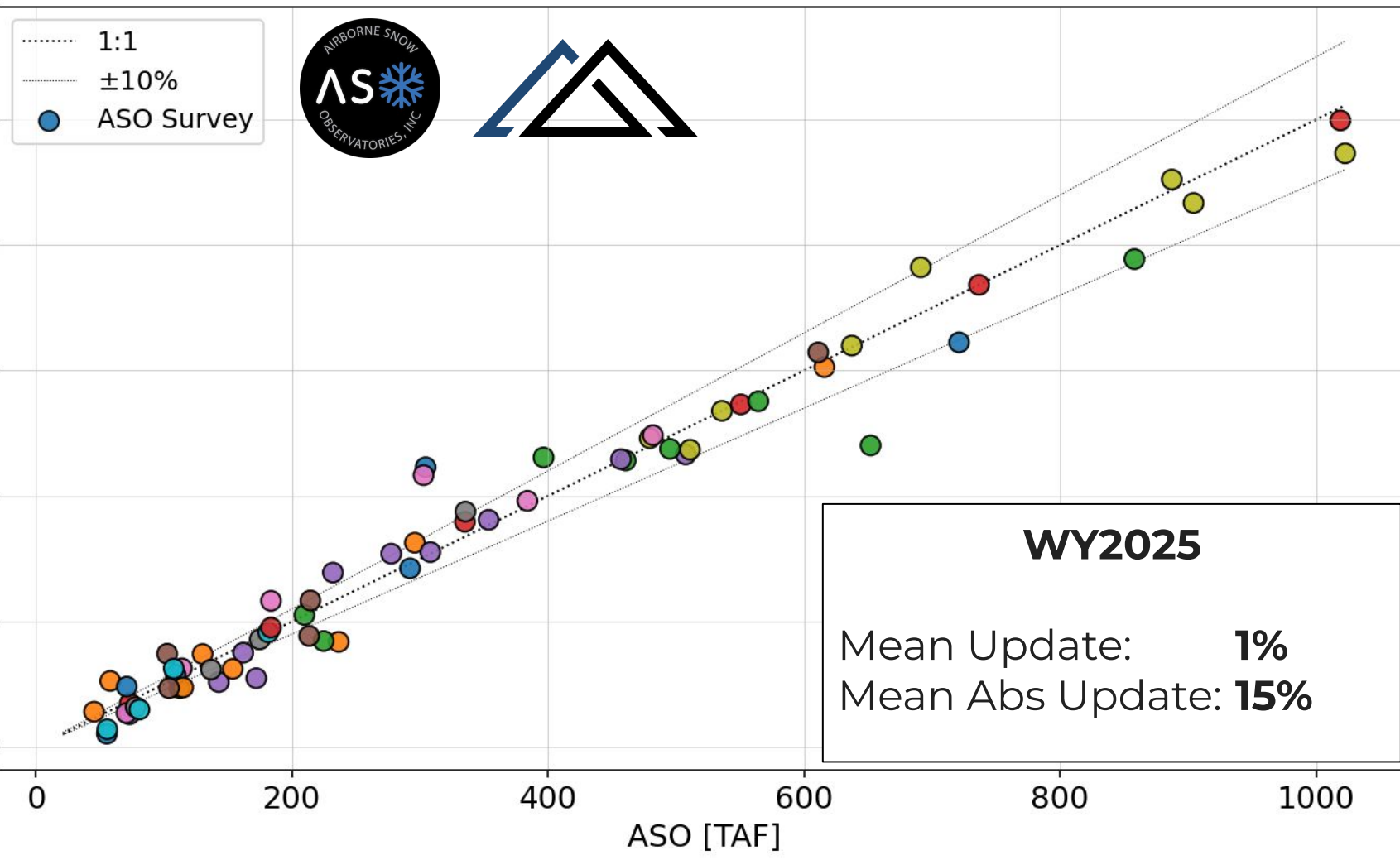


ASO Survey



**WY2025**

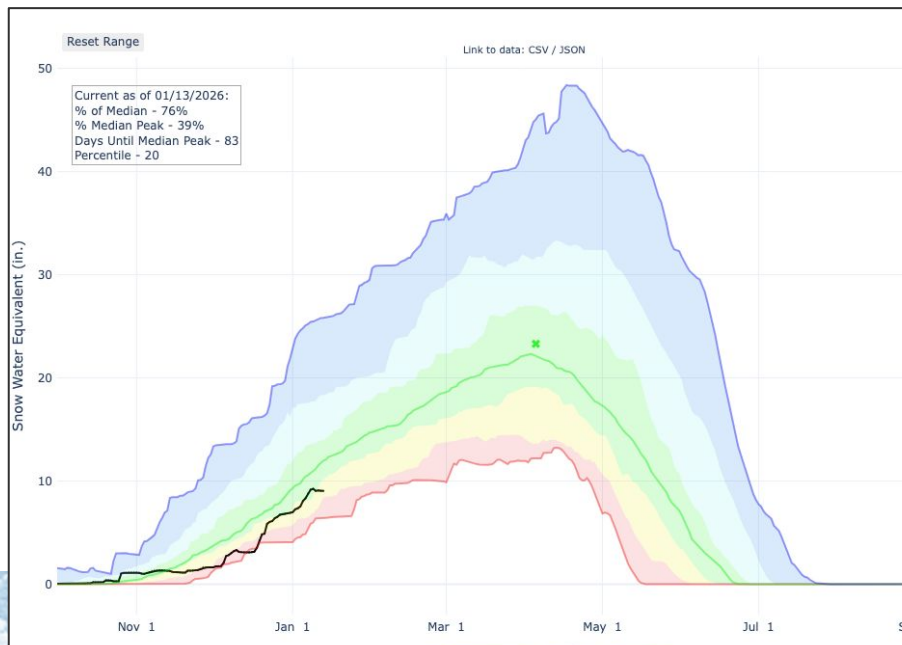
Mean Update: **1%**  
Mean Abs Update: **15%**



# SNOTEL and iSnobal Normals

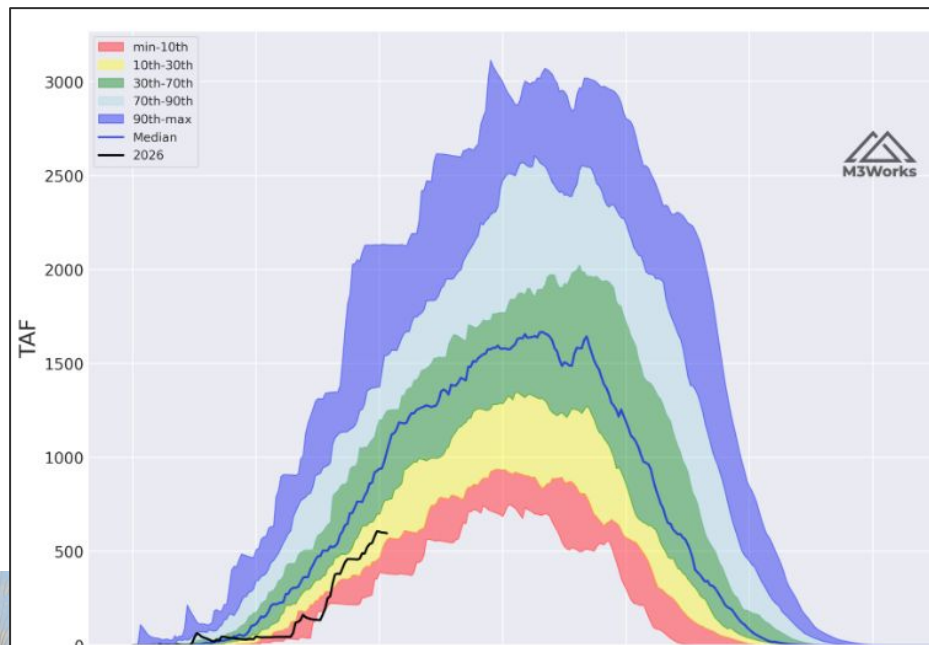
SNOTEL:

~**75%** of median



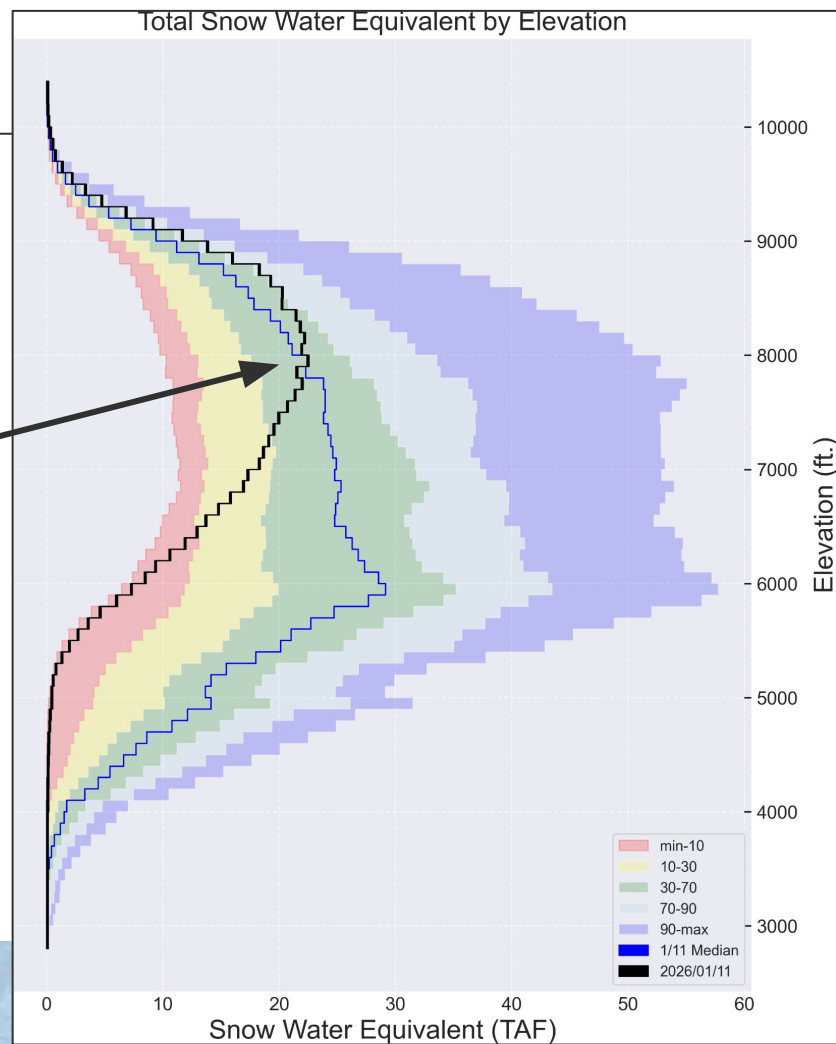
iSnobal:

~**55%** of median



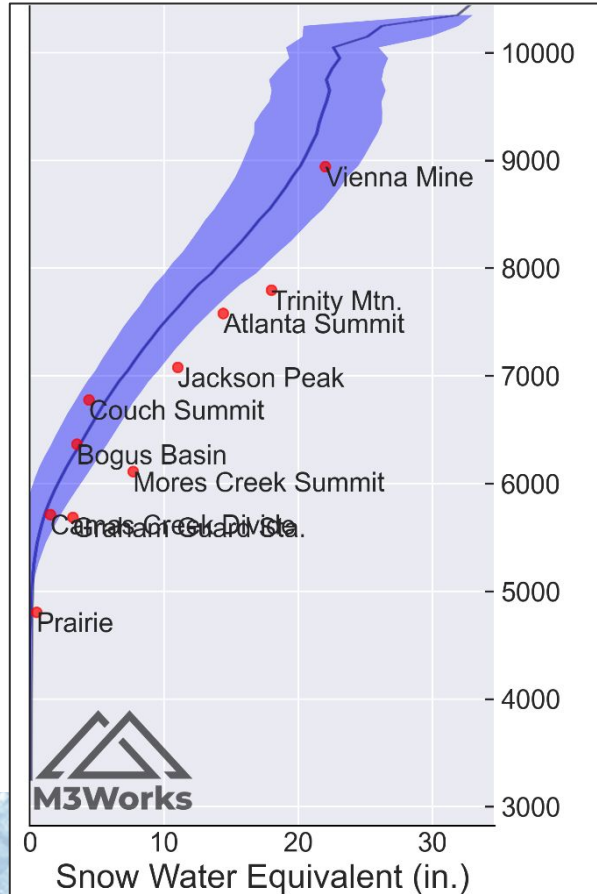
# Spatial Perspective

- Above normal precipitation and temperature
- Drastic signal change in the snowpack at **8,000ft**
- Almost no snow below 6,000ft

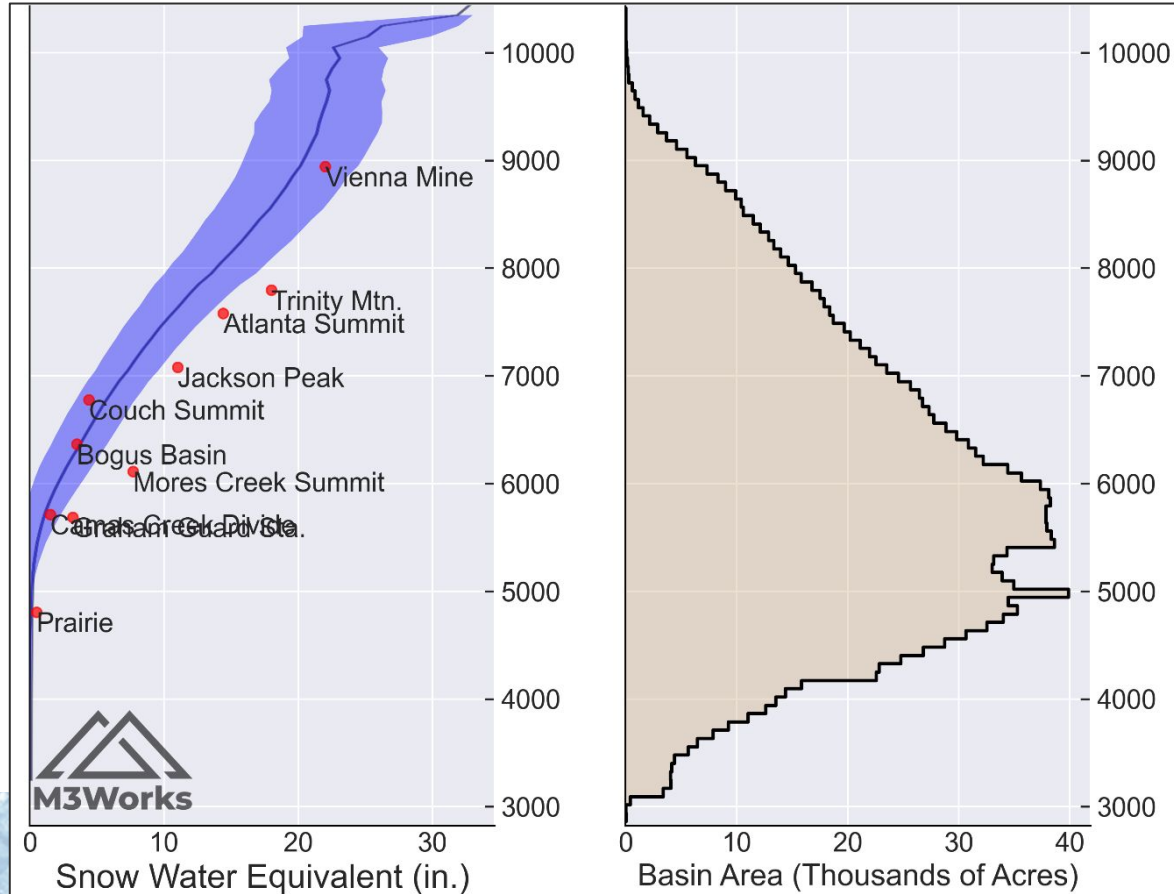




# iSnobal SWE by Elevation

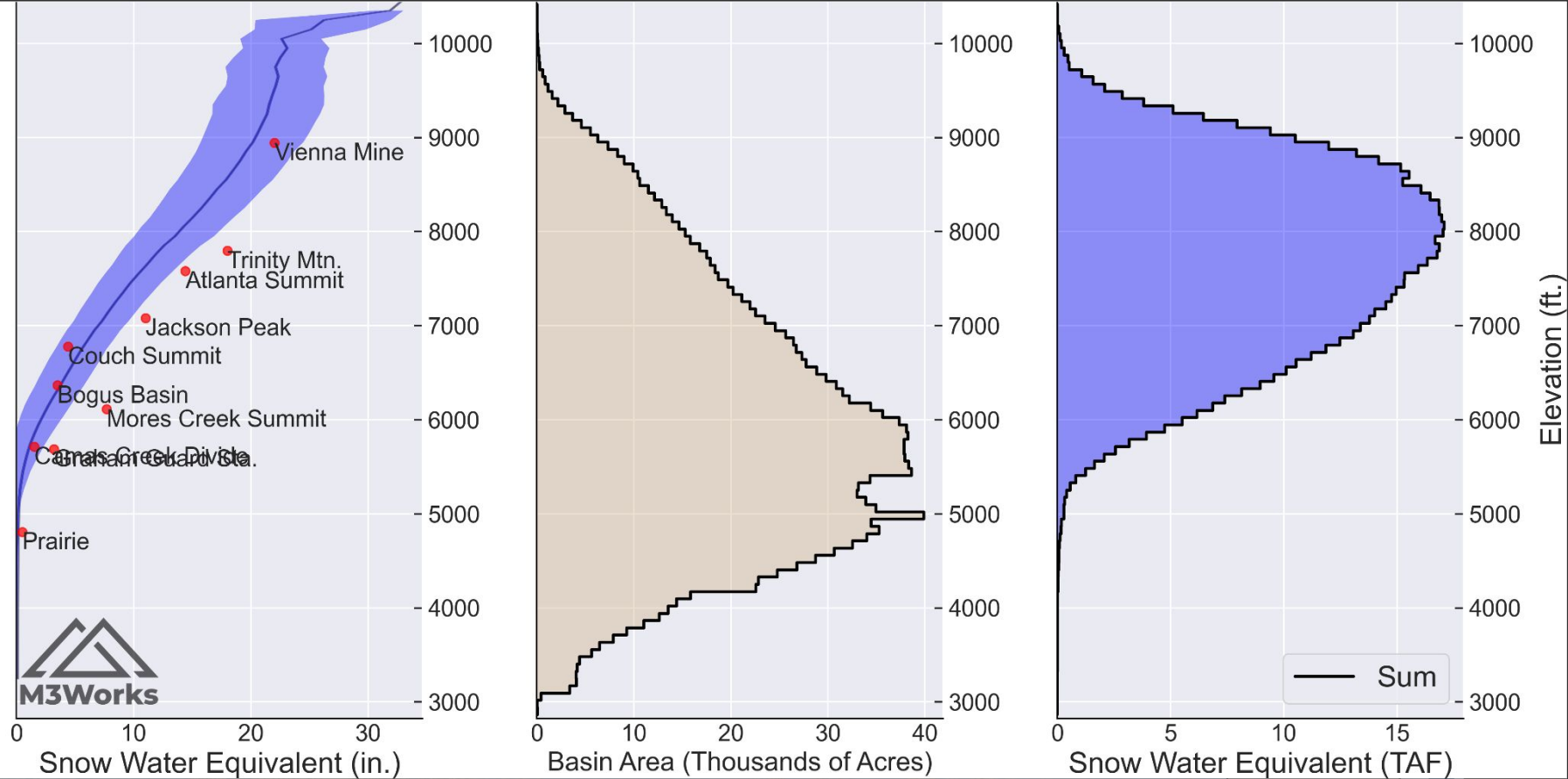


# iSnobal SWE by Elevation

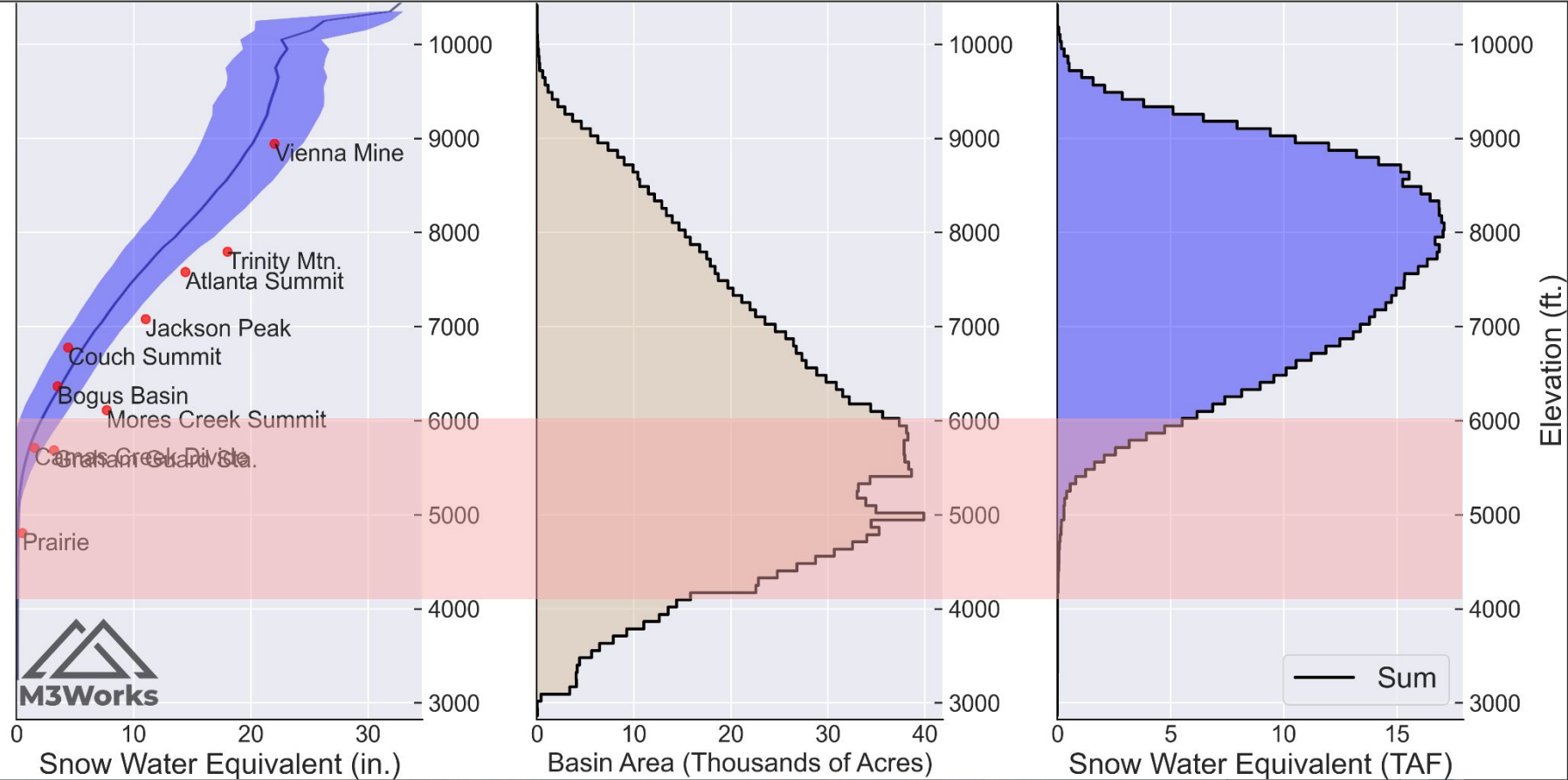




# iSnobal SWE by Elevation

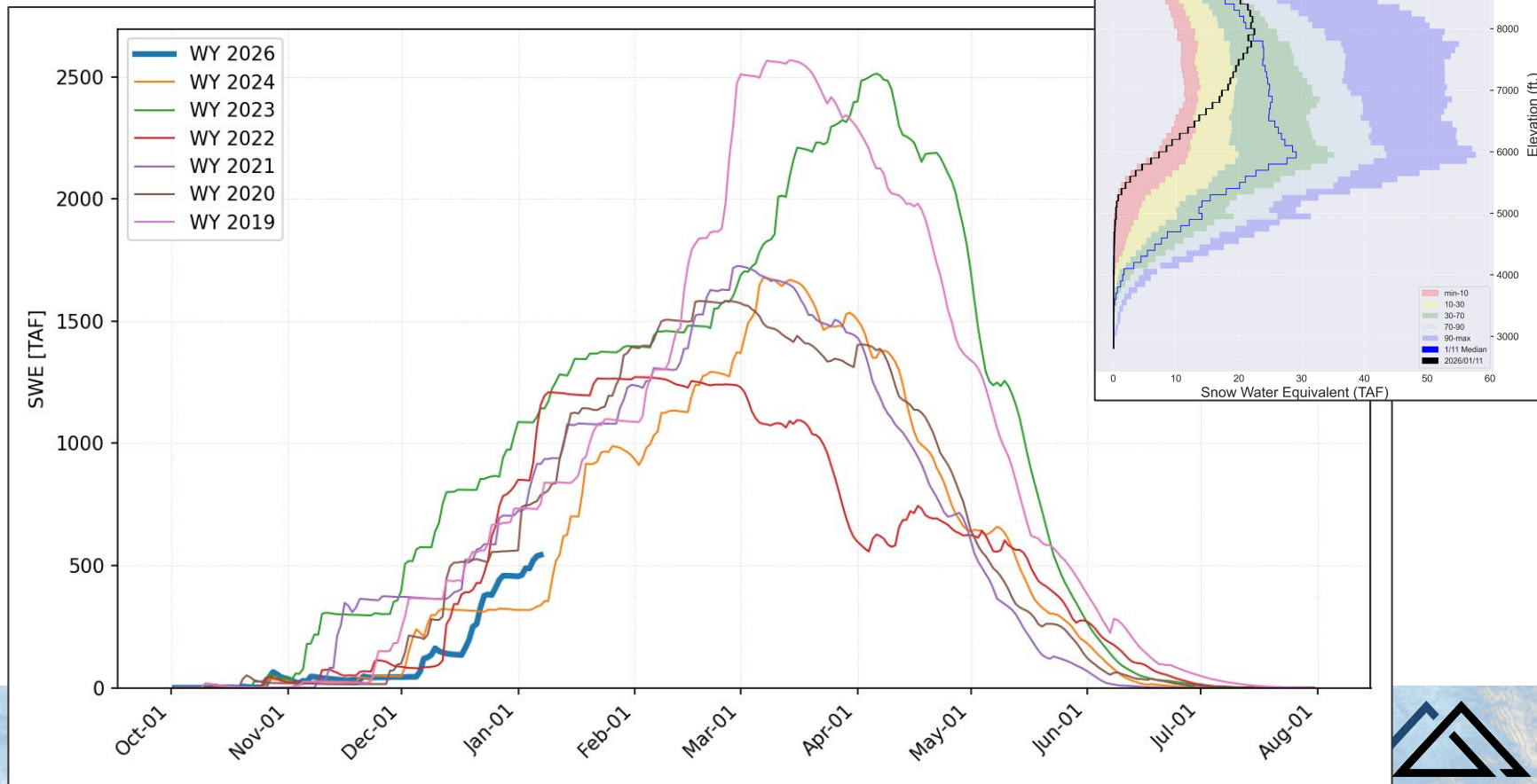


# iSnobal SWE by Elevation

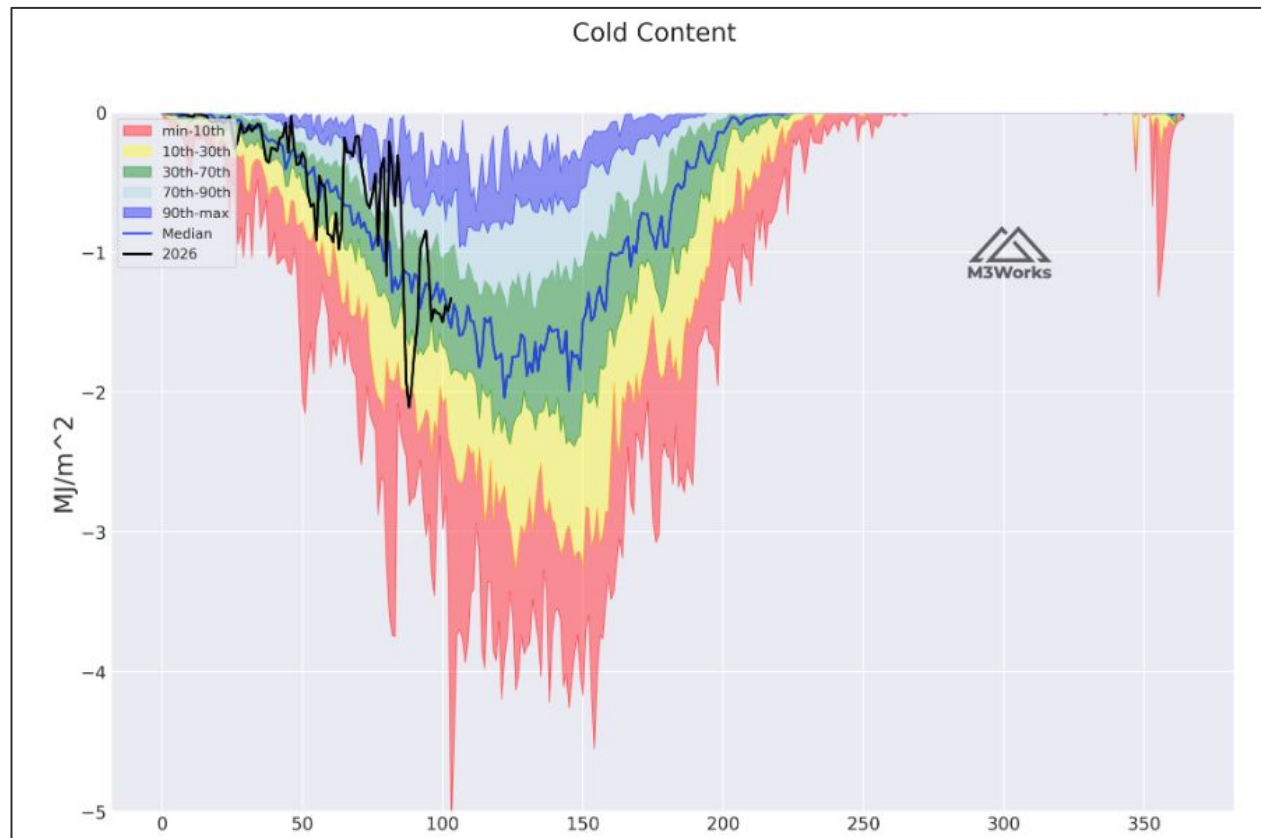
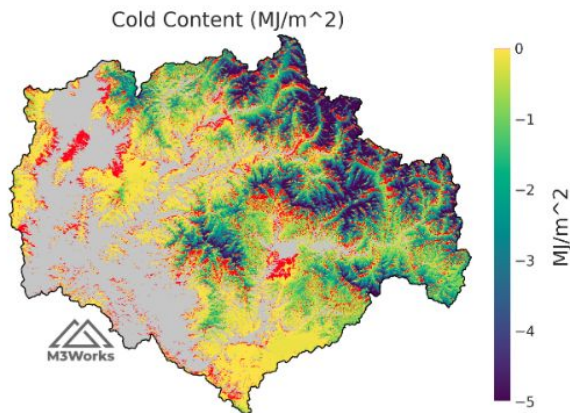




# Historical Context

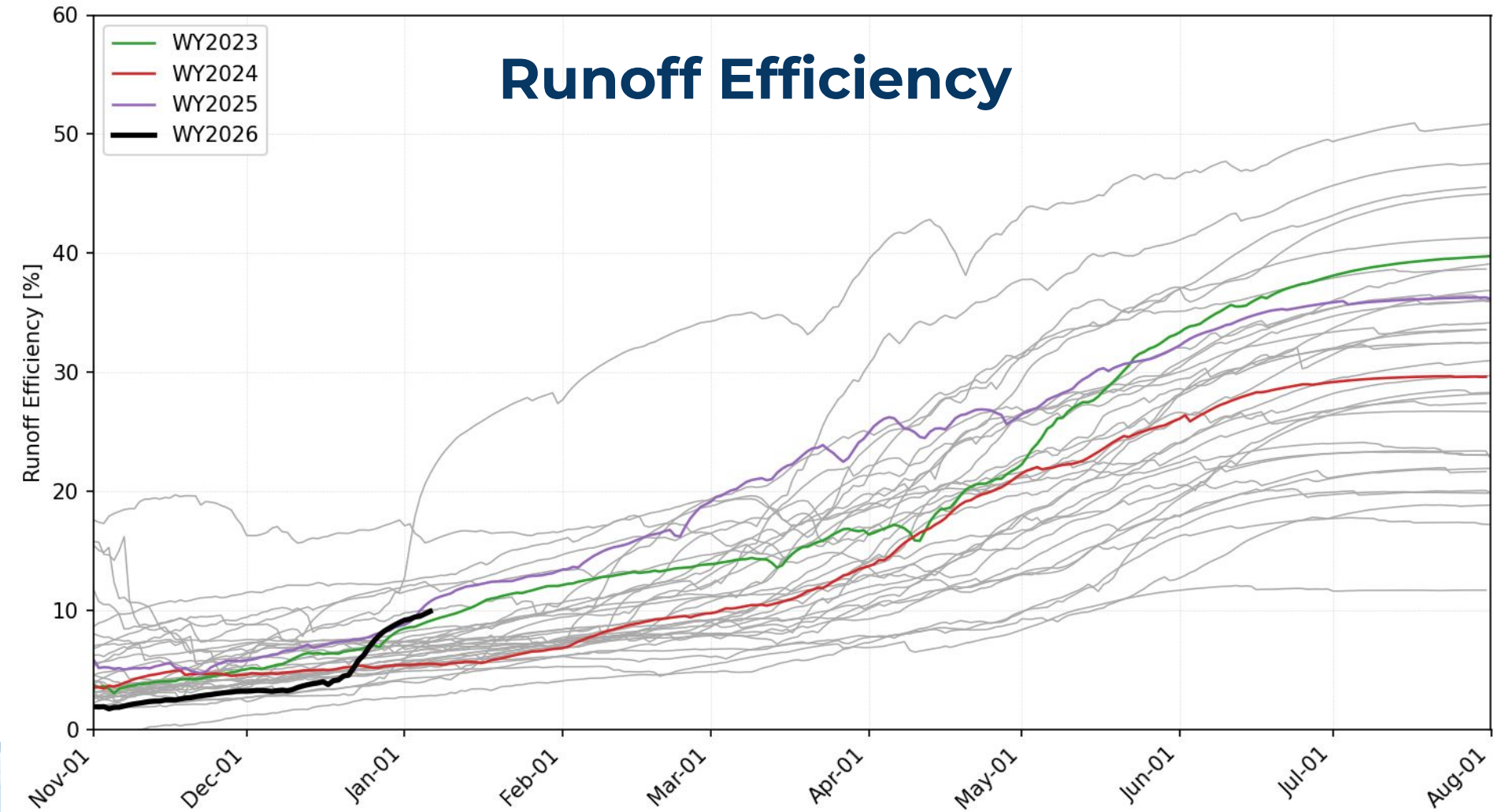


# Cold Content





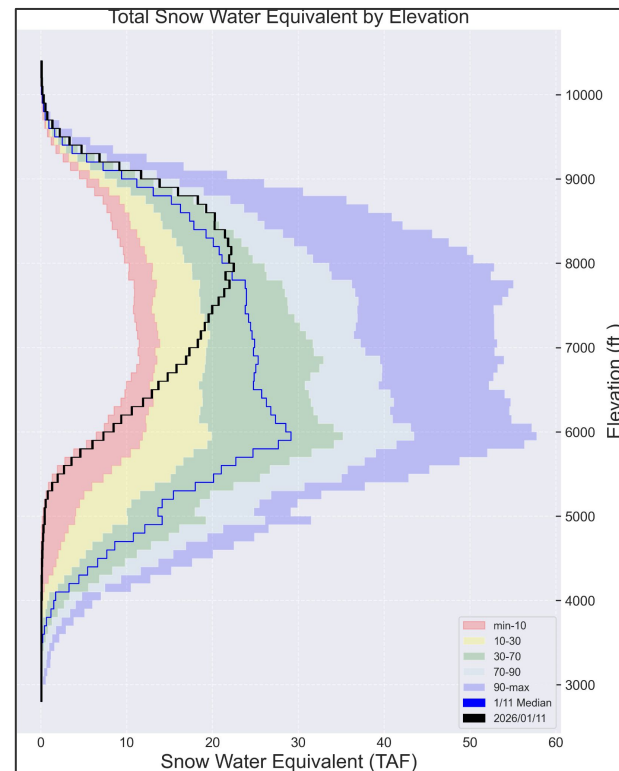
# Runoff Efficiency



# Takeaways From a Spatial Perspective

iSnobal shows:

- Drastic elevational cutoff (much less snow than normal below 8,000ft)
- Less snow than normal as compared to site index:
  - ~**55%** iSnobal
  - ~**75%** SNOTEL
- Normal snowpack temperature

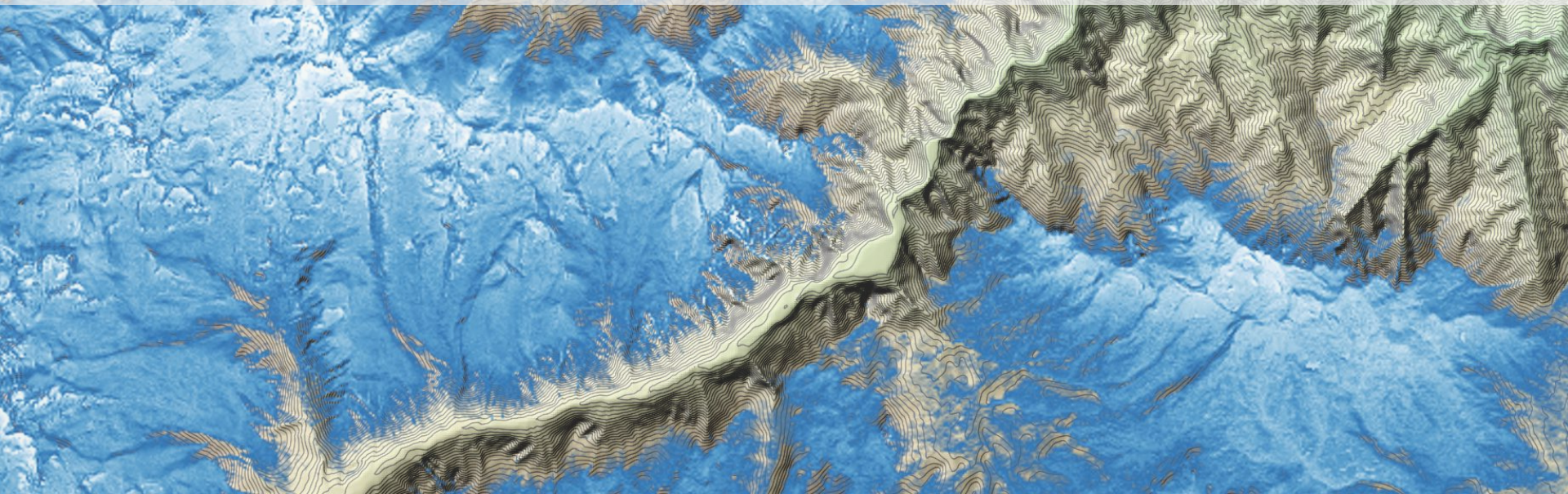






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# Mores Creek





# Boise WY2026 Volume and Site Index

