



# Water Conditions Monitoring Committee Meeting March 19<sup>th</sup>, 2024

## NRCS Snow Survey and Water Supply Forecasting Program

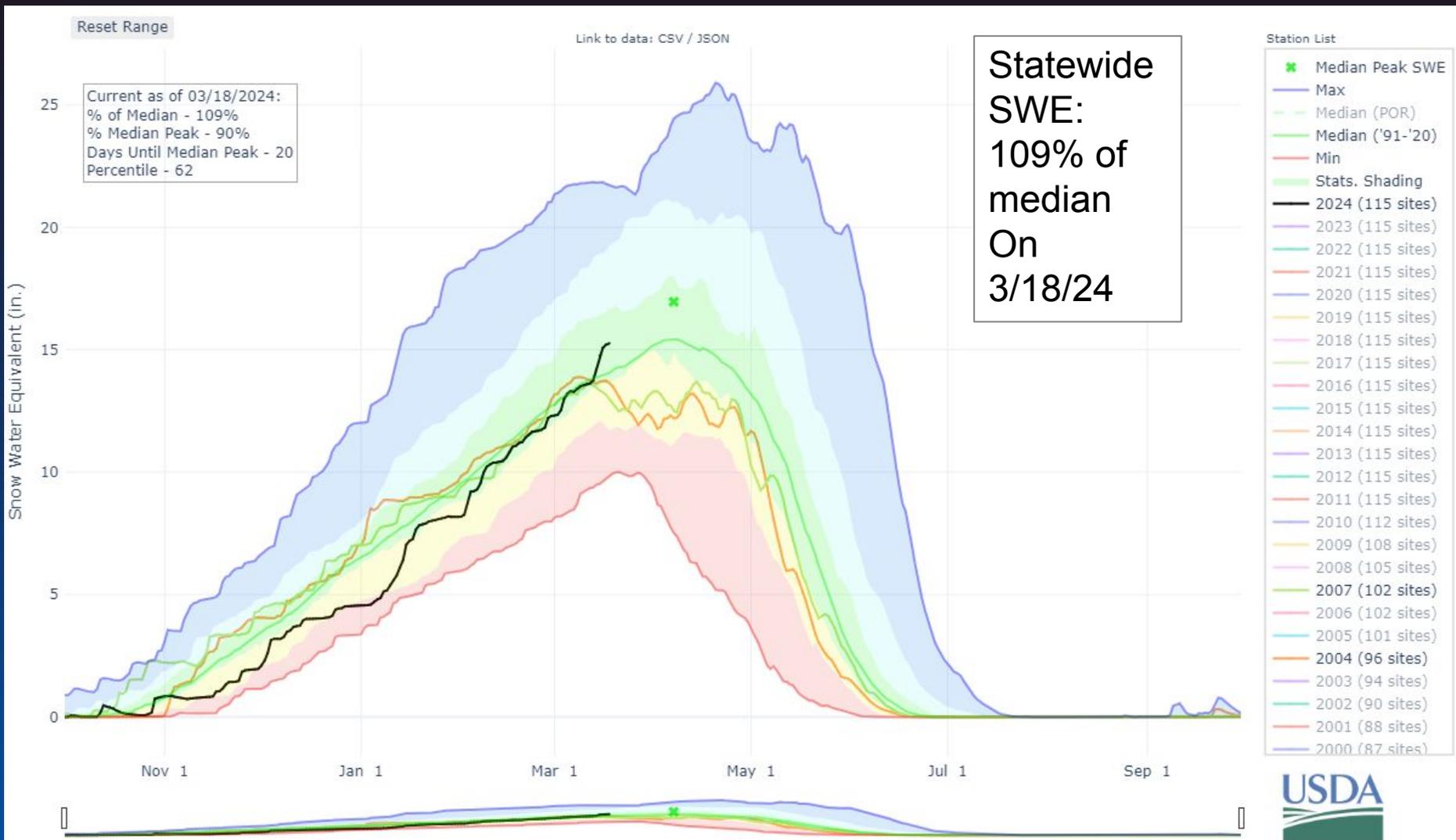
Nagam Gill

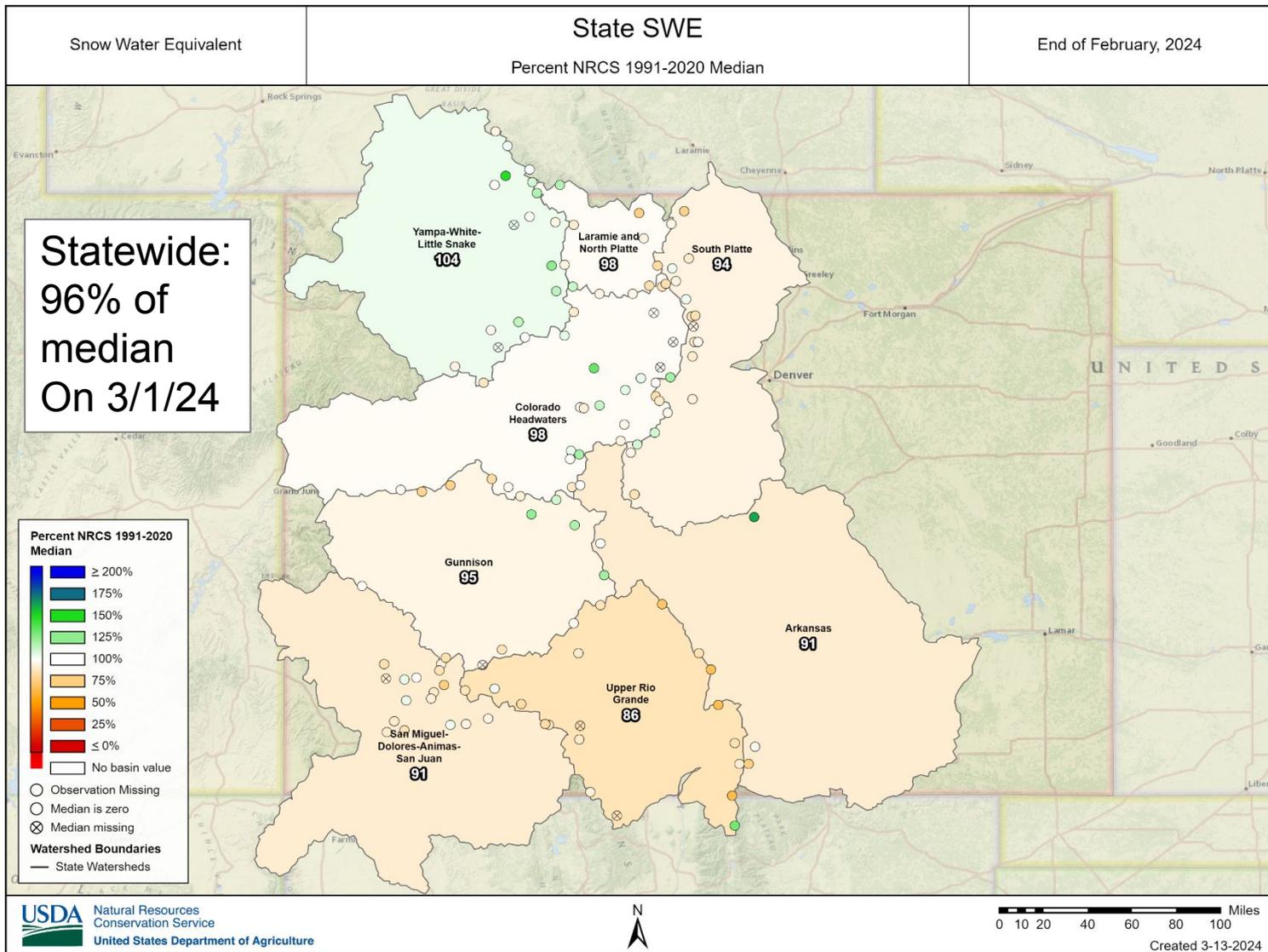
Hydrologist

[Nagam.gill@usda.gov](mailto:Nagam.gill@usda.gov)

720-576-7863

<http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/>







Snowpack

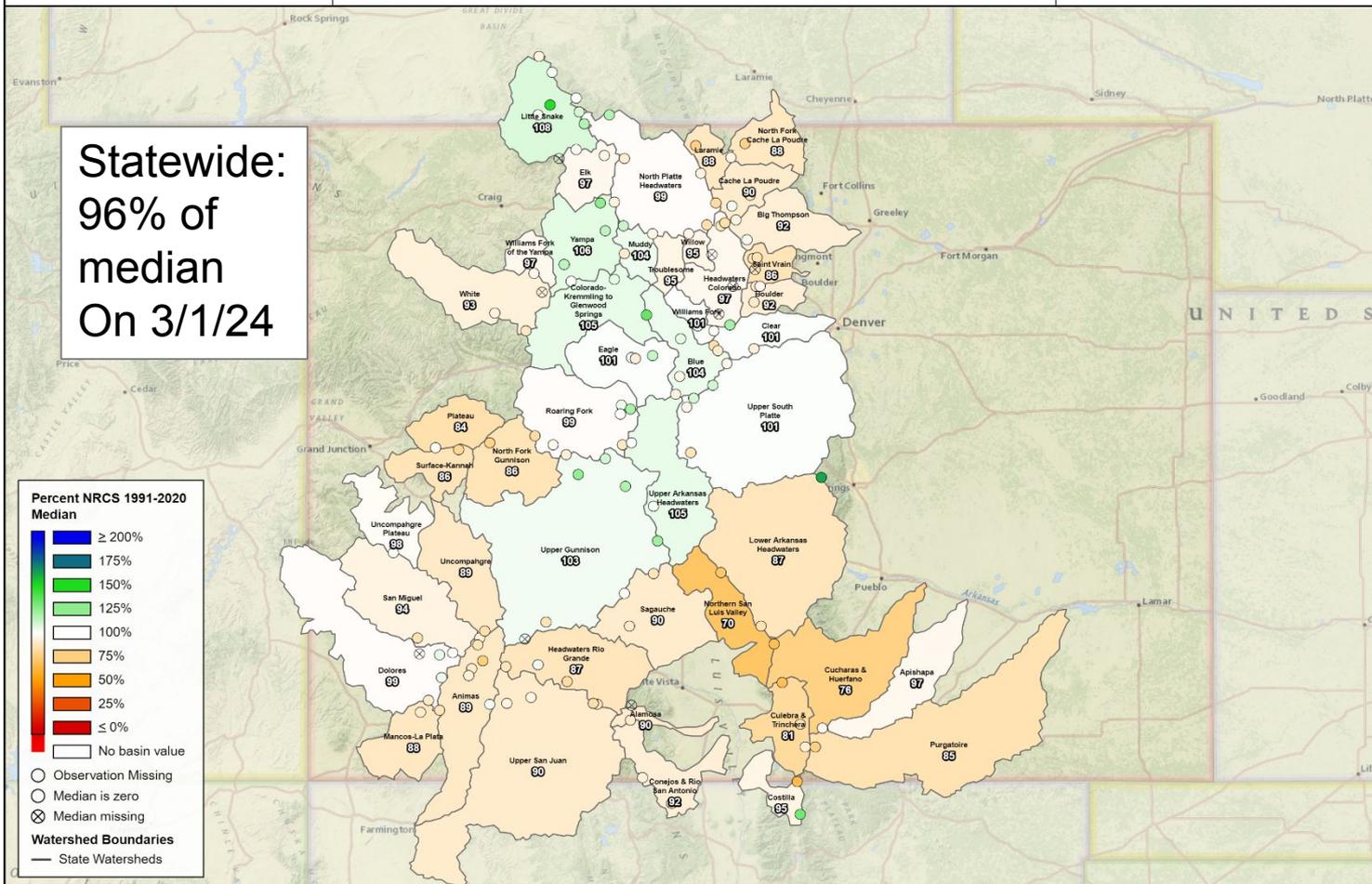
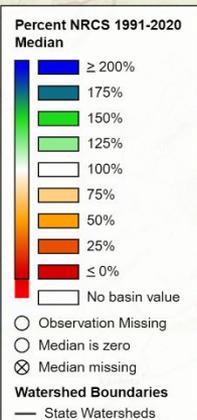
Snow Water Equivalent

### State SWE

End of February, 2024

Percent NRCS 1991-2020 Median

Statewide:  
96% of  
median  
On 3/1/24





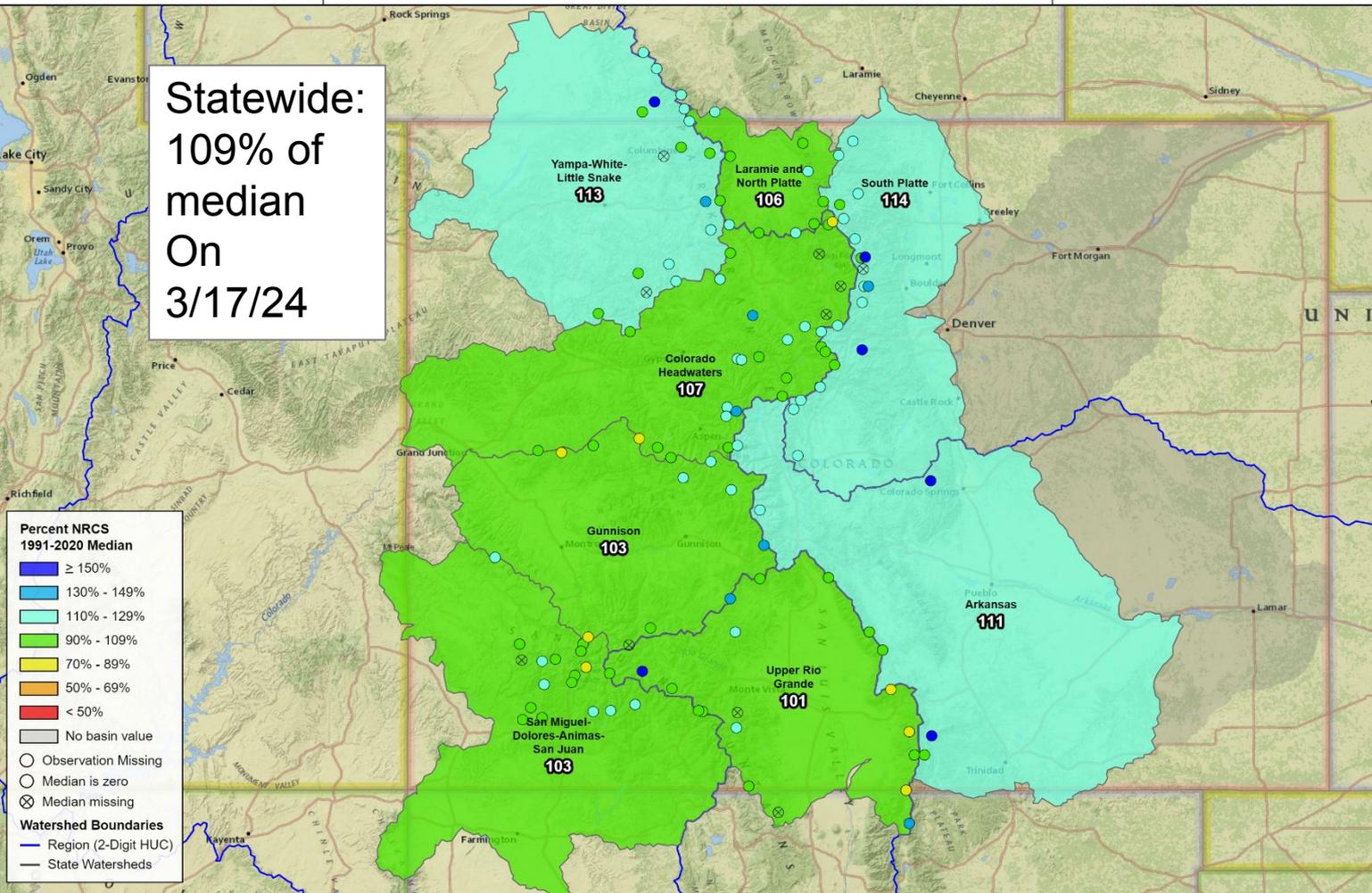
Snow Water Equivalent

## State SWE

March 17, 2024, end of day

Percent NRCS 1991-2020 Median

**Statewide:  
109% of  
median  
On  
3/17/24**



**Percent NRCS 1991-2020 Median**

- ≥ 150%
- 130% - 149%
- 110% - 129%
- 90% - 109%
- 70% - 89%
- 50% - 69%
- < 50%
- No basin value
- Observation Missing
- Median is zero
- ⊗ Median missing

**Watershed Boundaries**

- Region (2-Digit HUC)
- State Watersheds





Snowpack

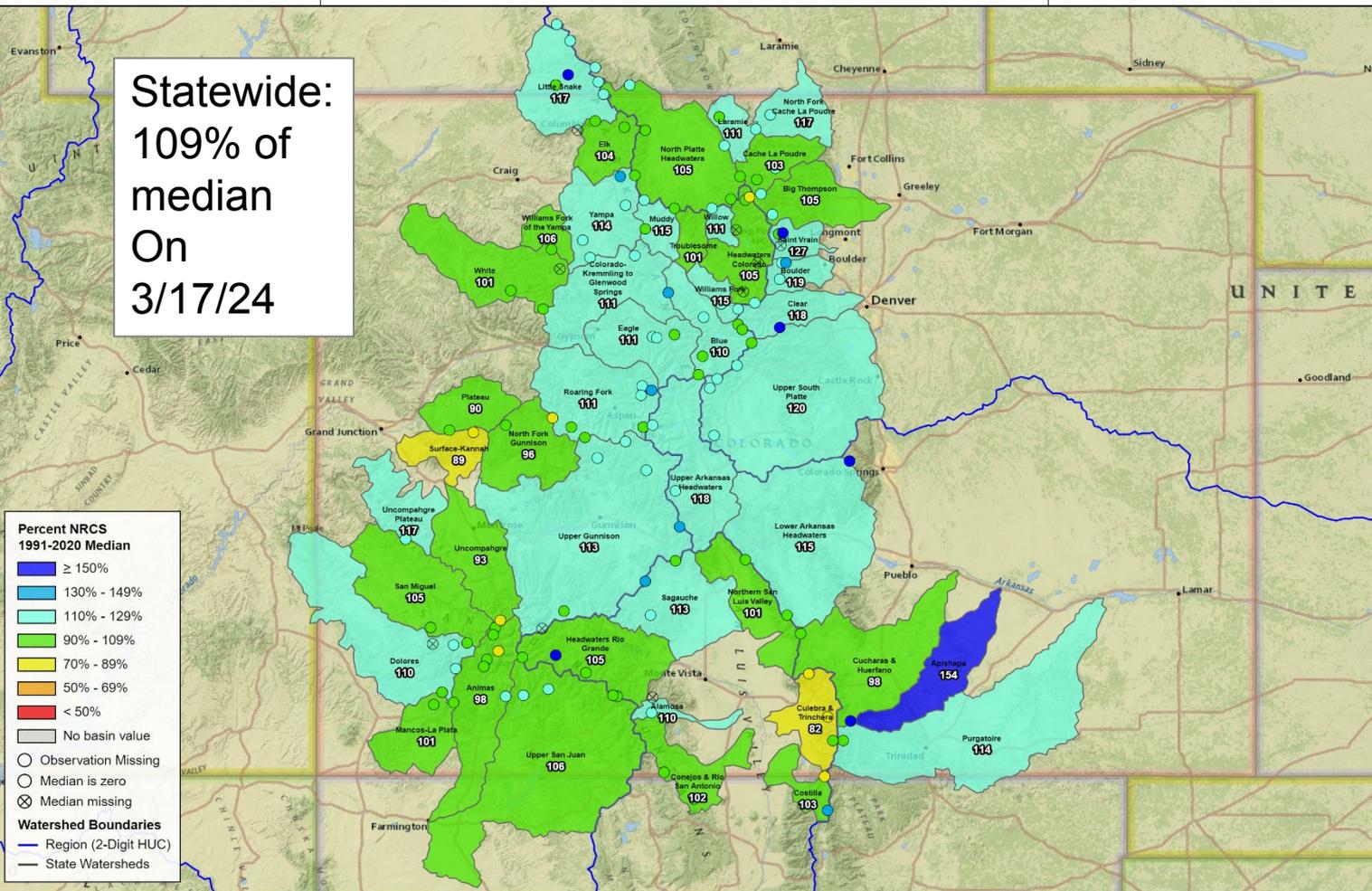
Snow Water Equivalent

### State SWE

March 17, 2024, end of day

Percent NRCS 1991-2020 Median

Statewide:  
109% of  
median  
On  
3/17/24

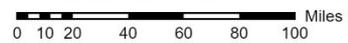


**Percent NRCS 1991-2020 Median**

- ≥ 150%
- 130% - 149%
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- < 50%
- No basin value
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**Watershed Boundaries**

- Region (2-Digit HUC)
- State Watersheds





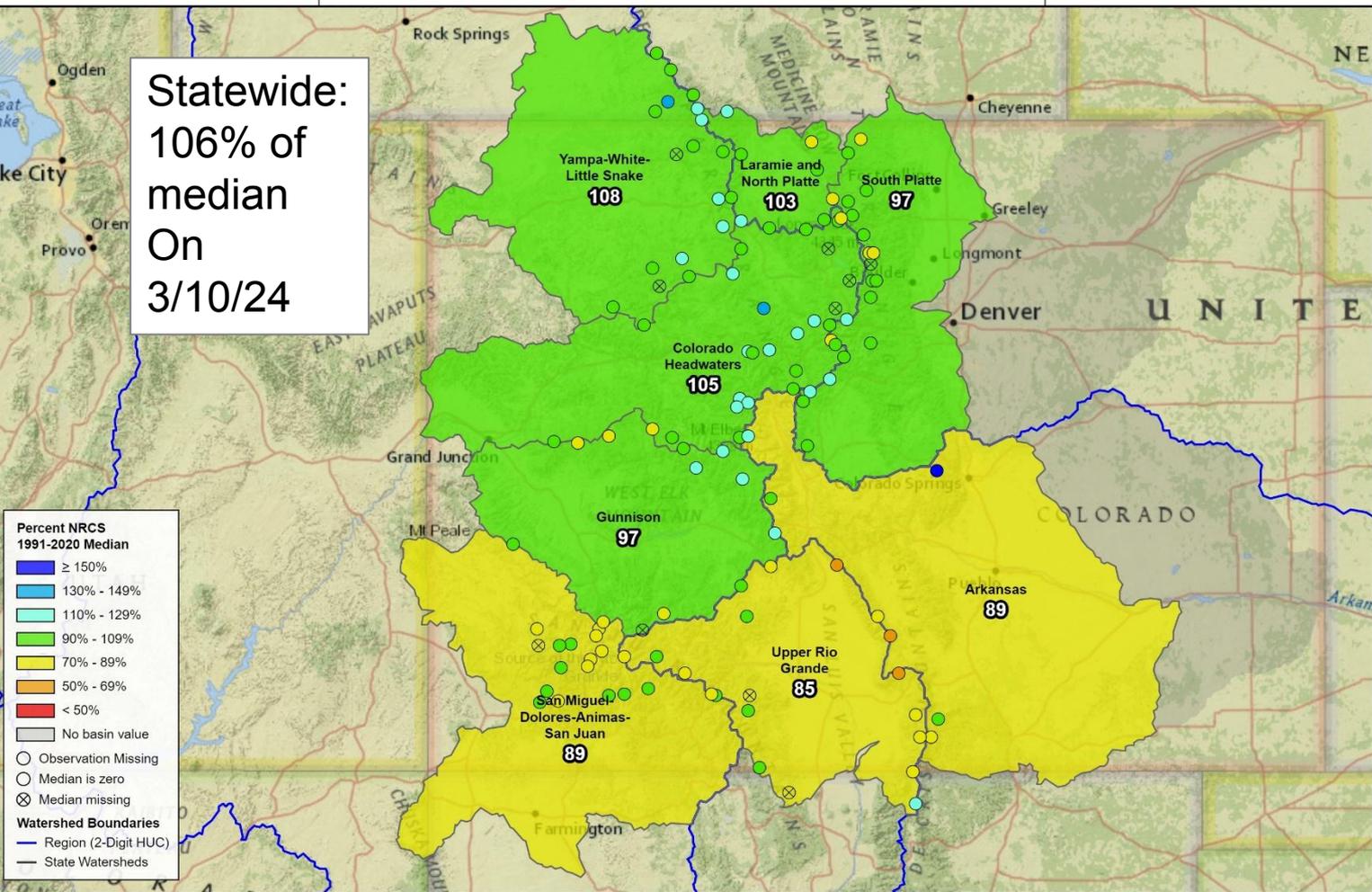
Snow Water Equivalent

## State SWE March 10

March 10, 2024, end of day

Percent NRCS 1991-2020 Median

**Statewide:  
106% of  
median  
On  
3/10/24**



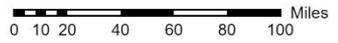
**Percent NRCS 1991-2020 Median**

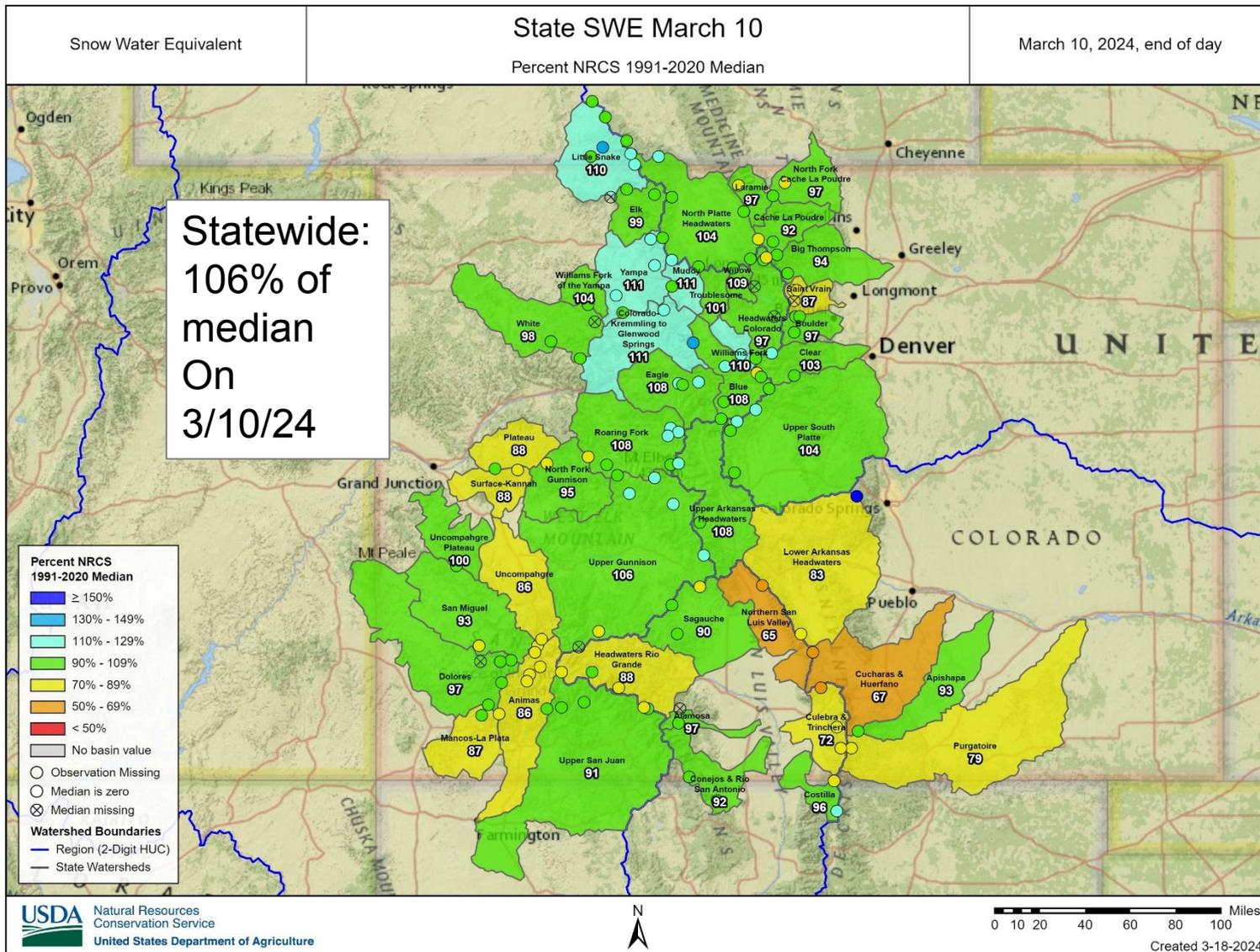
- ≥ 150%
- 130% - 149%
- 110% - 129%
- 90% - 109%
- 70% - 89%
- 50% - 69%
- < 50%
- No basin value

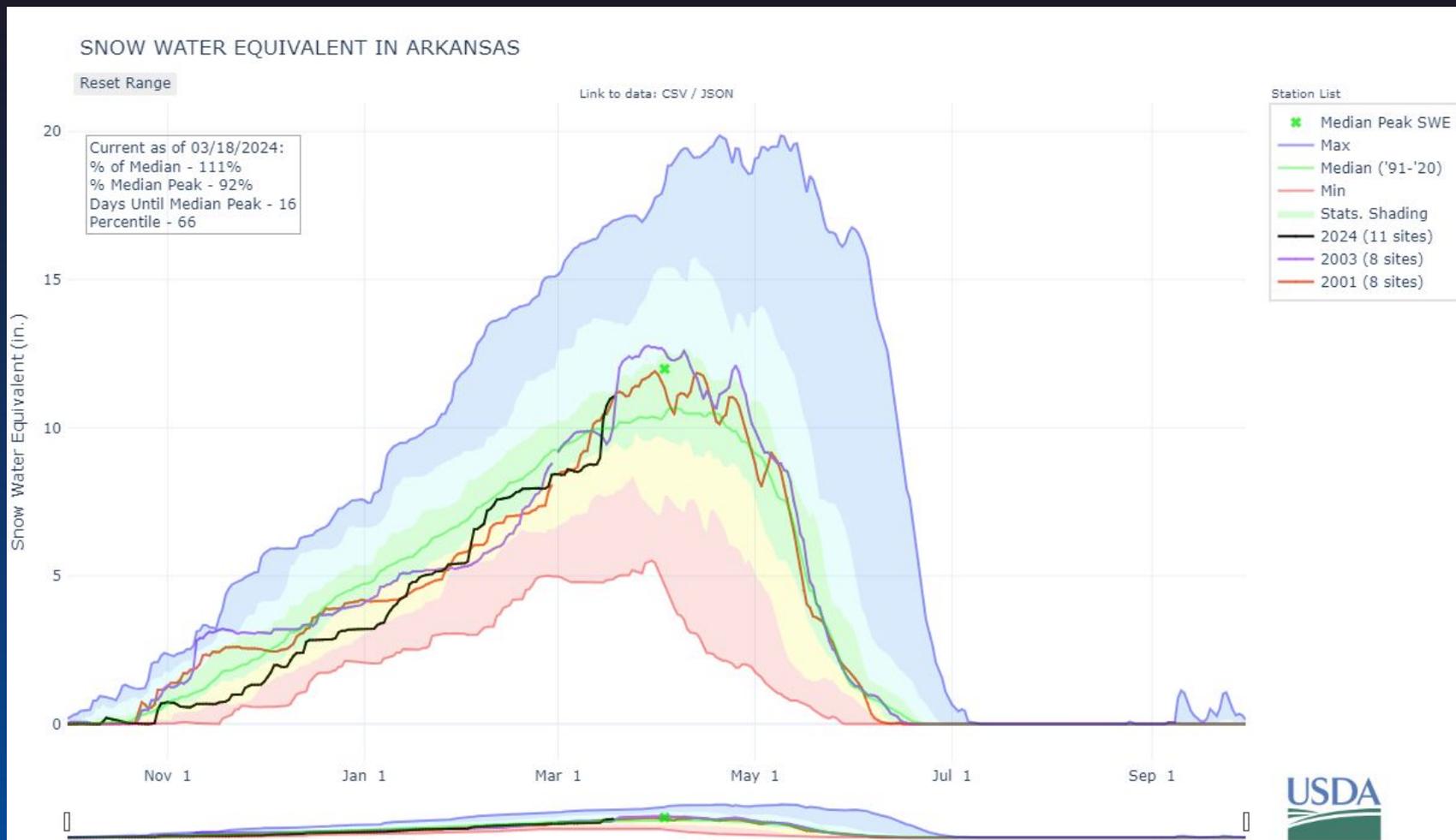
○ Observation Missing  
○ Median is zero  
⊗ Median missing

**Watershed Boundaries**

- Region (2-Digit HUC)
- State Watersheds







## SNOW WATER EQUIVALENT IN SAN MIGUEL-DOLORES-ANIMAS-SAN JUAN

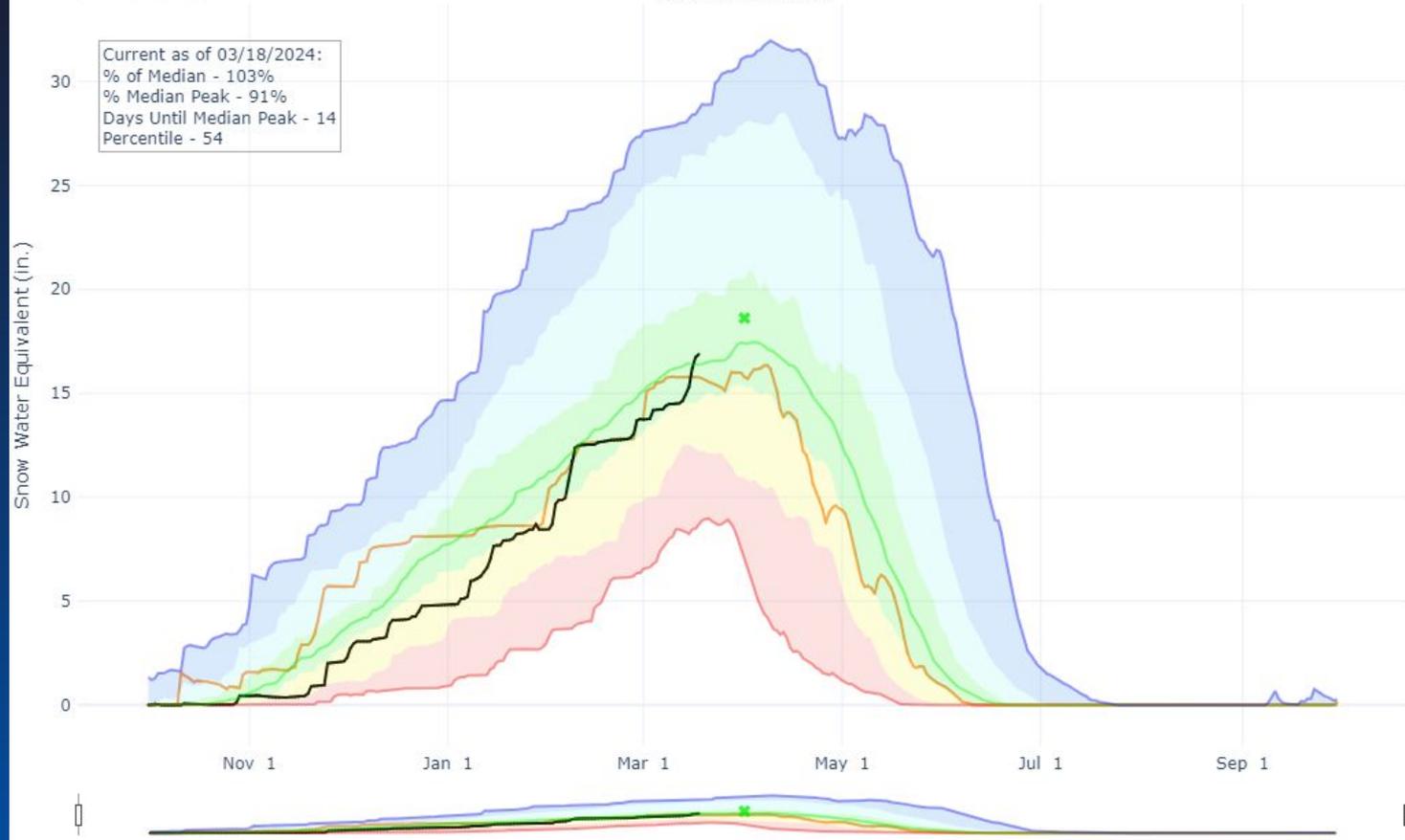
Reset Range

[Link to data: CSV / JSON](#)

Station List

Current as of 03/18/2024:  
% of Median - 103%  
% Median Peak - 91%  
Days Until Median Peak - 14  
Percentile - 54

- Median Peak SWE
- Max
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (19 sites)
- 2014 (19 sites)

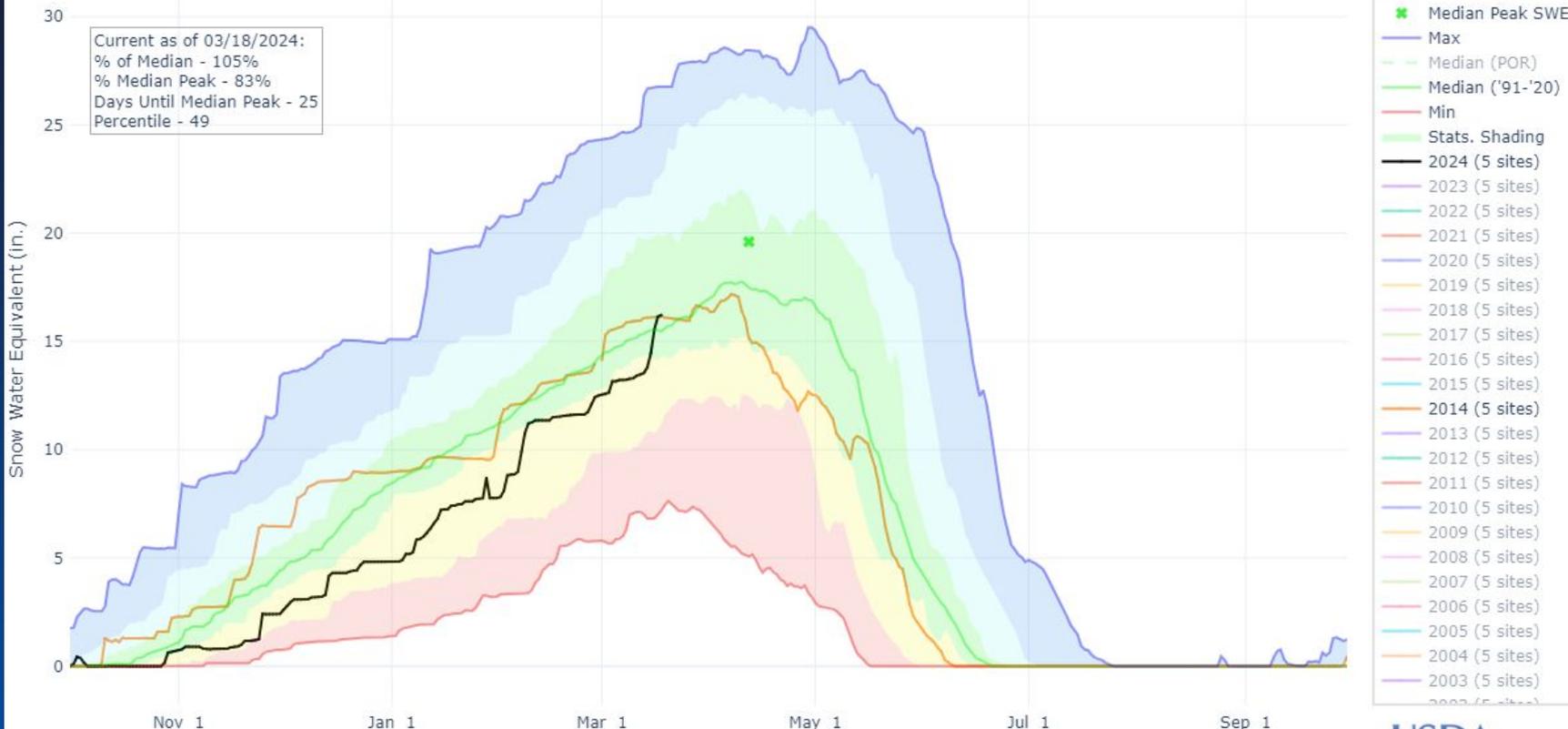


## SNOW WATER EQUIVALENT IN HEADWATERS RIO GRANDE

Reset Range

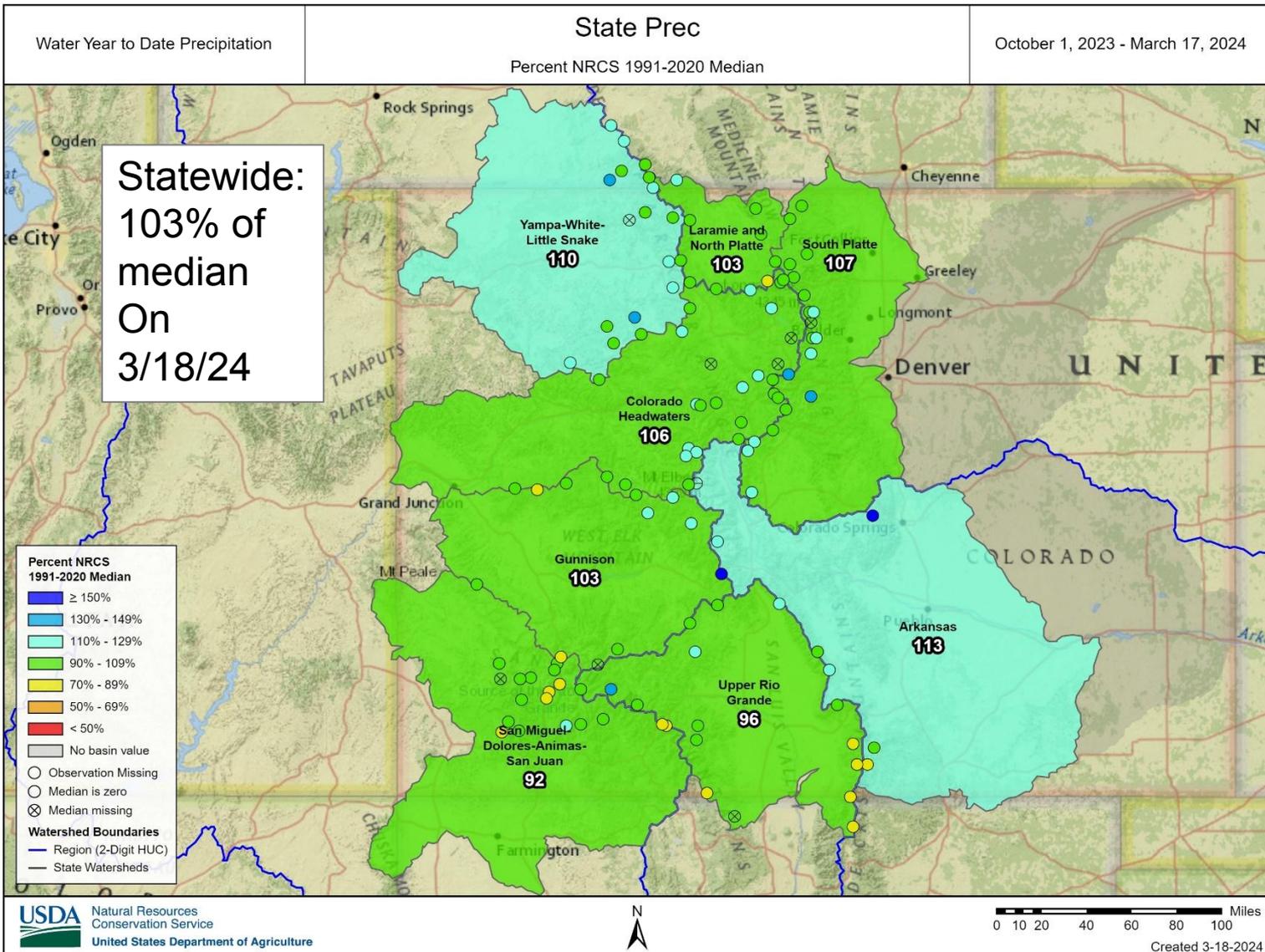
[Link to data: CSV / JSON](#)

Station List

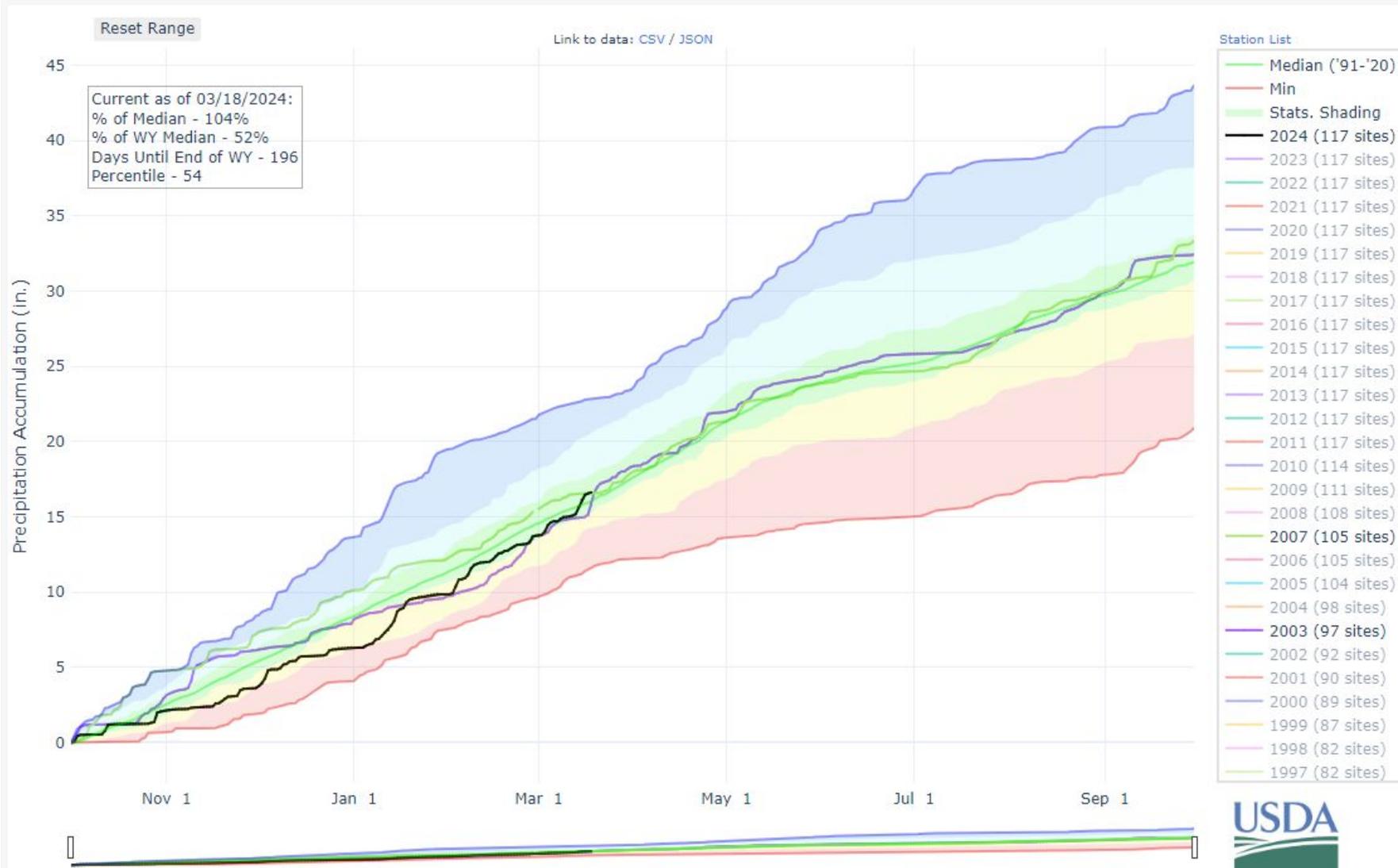


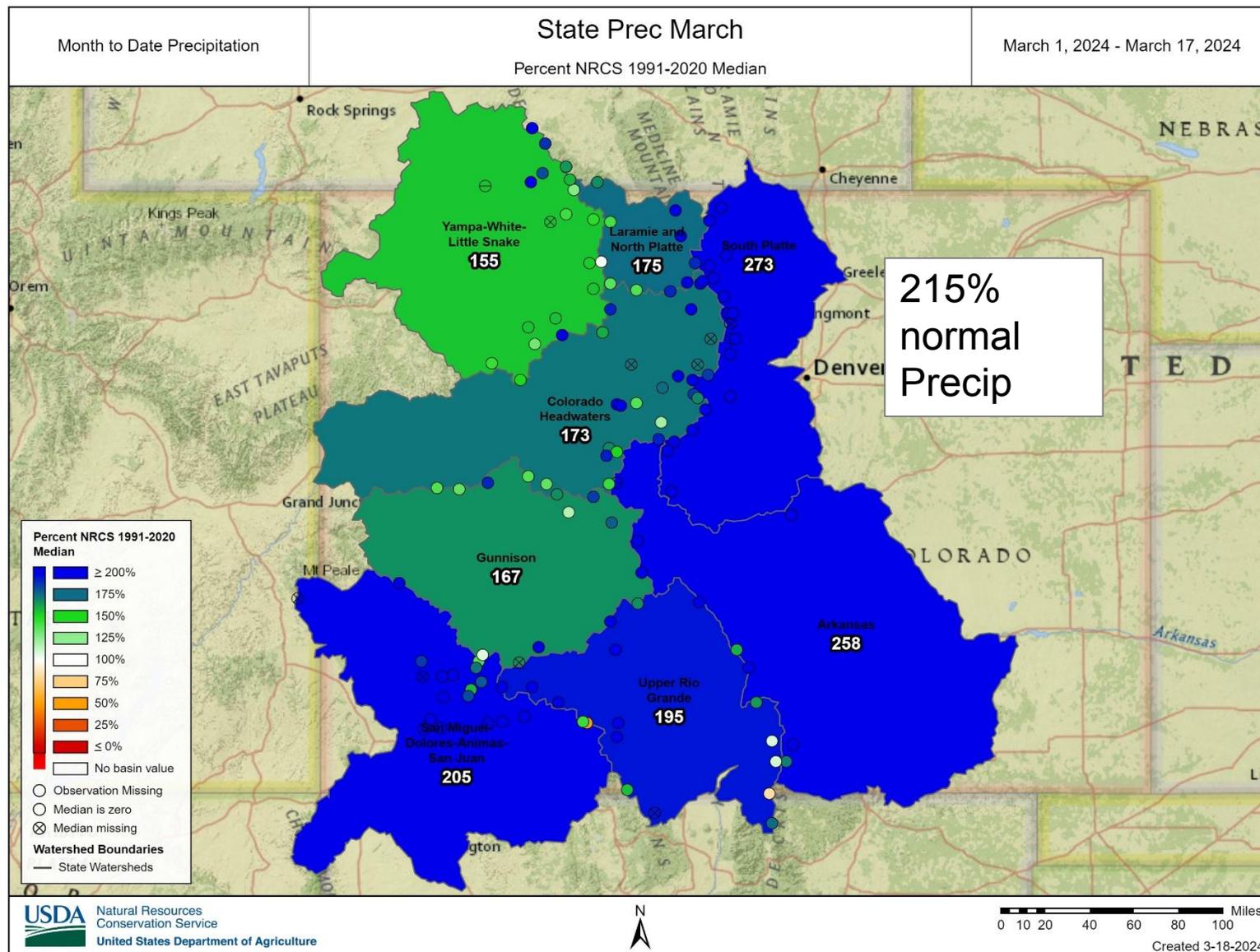


WY Precipitation



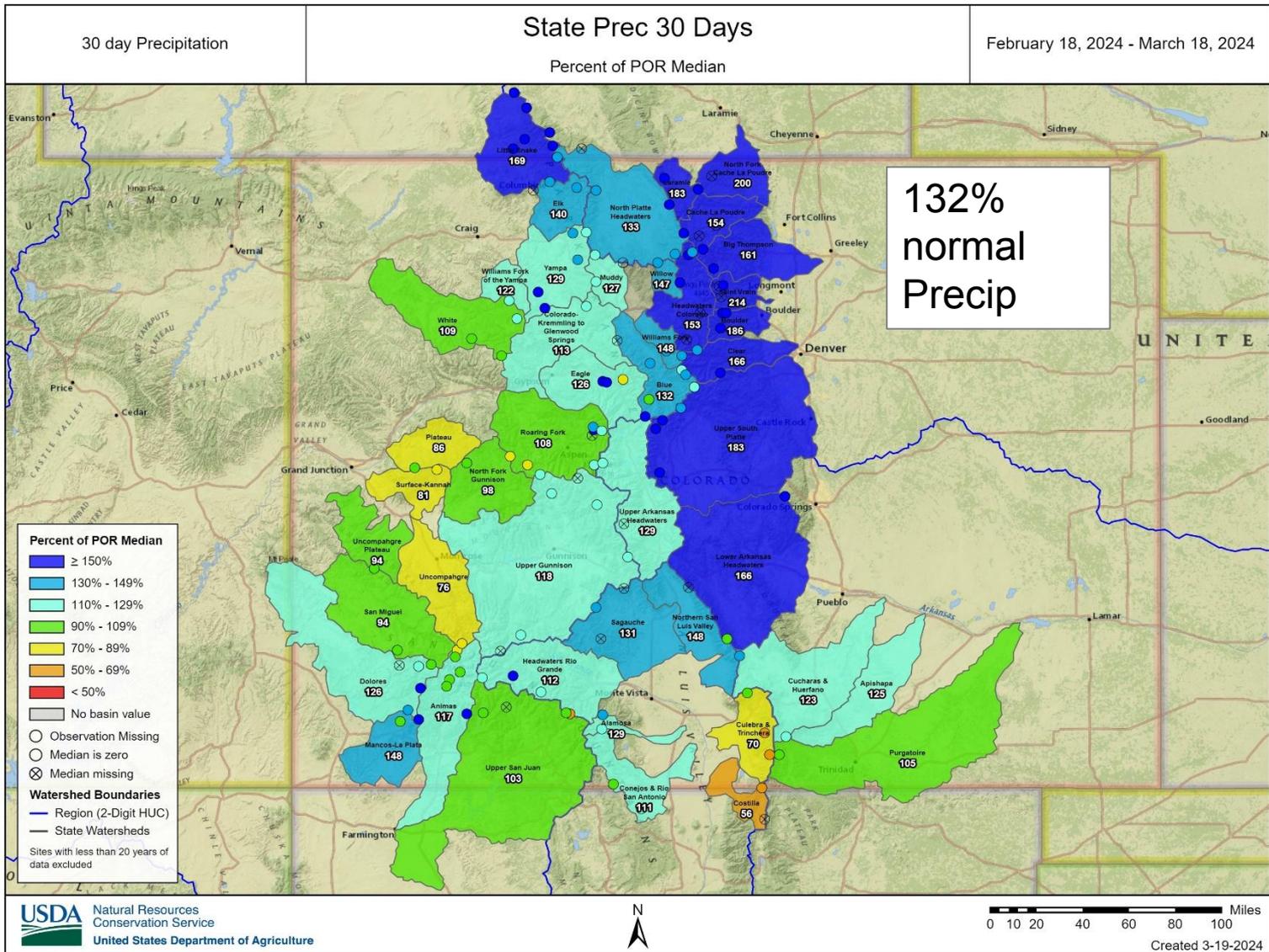
## PRECIPITATION ACCUMULATION IN STATE OF COLORADO

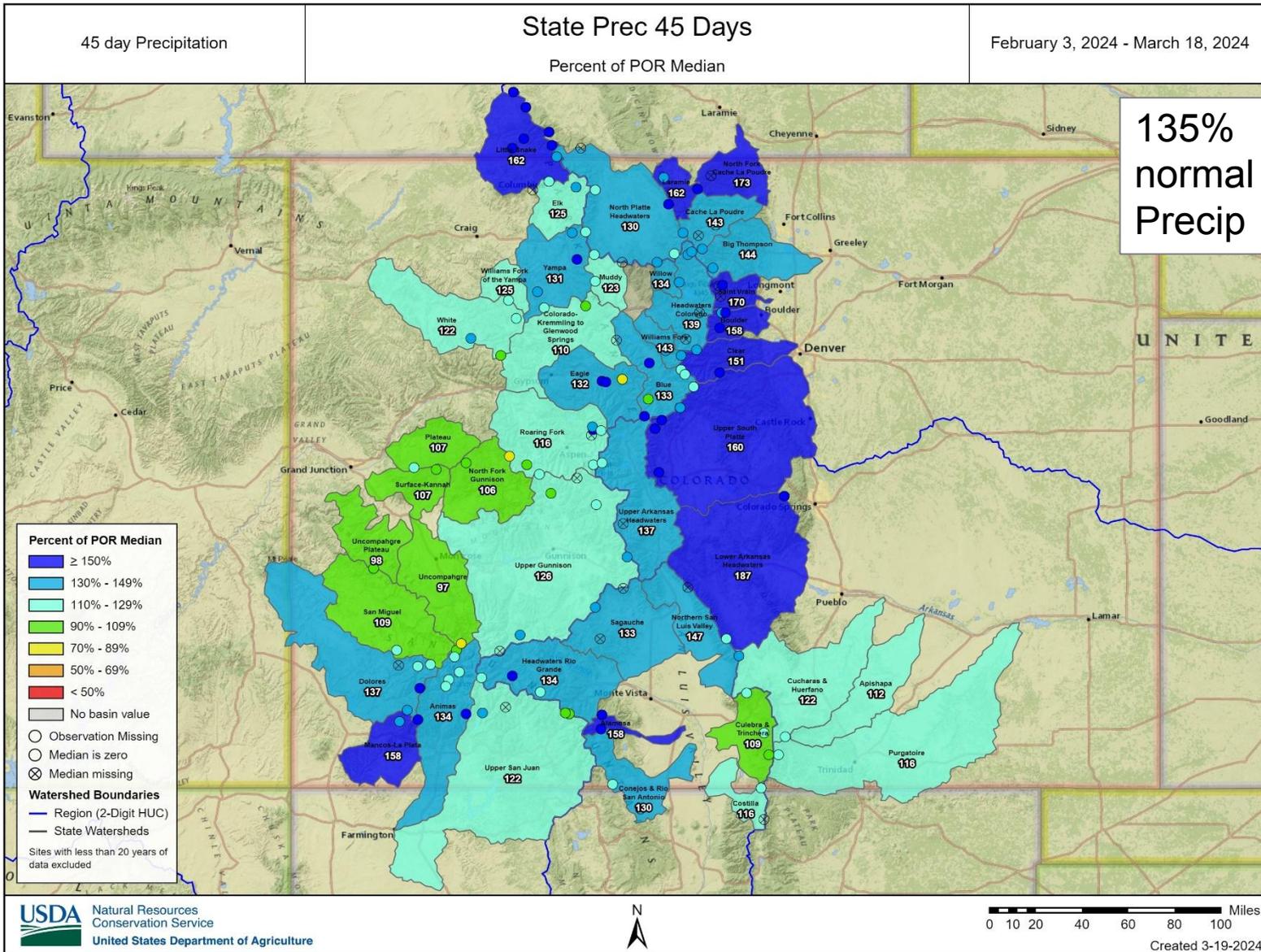






WY Precipitation







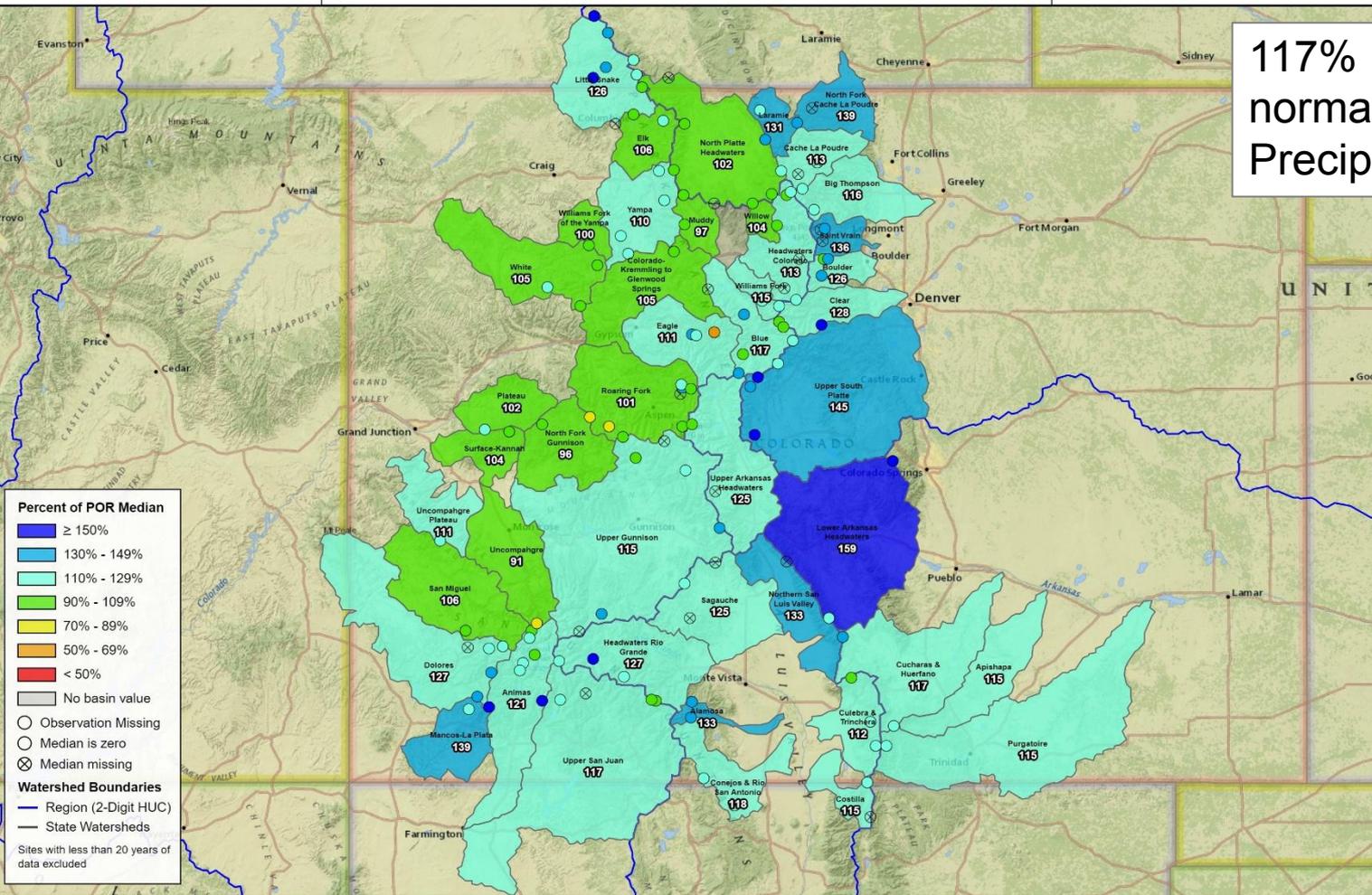
60 day Precipitation

## State Prec 60 Days

January 19, 2024 - March 18, 2024

Percent of POR Median

117% normal Precip





7 day Precipitation

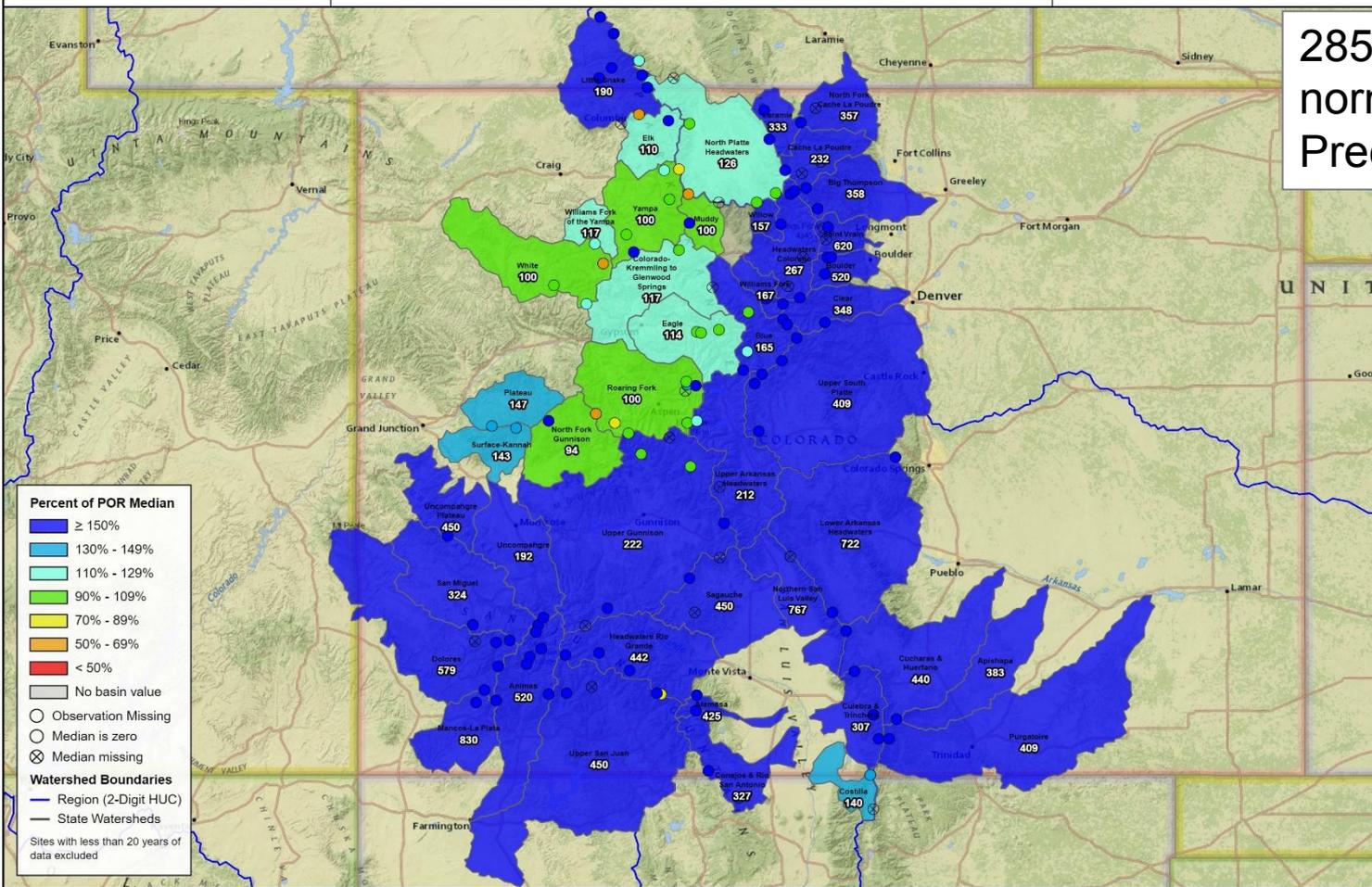
### State Prec 7 Days

Percent of POR Median

March 12, 2024 - March 18, 2024

285%  
normal  
Precip

Precipitation



## PRECIPITATION ACCUMULATION IN ARKANSAS

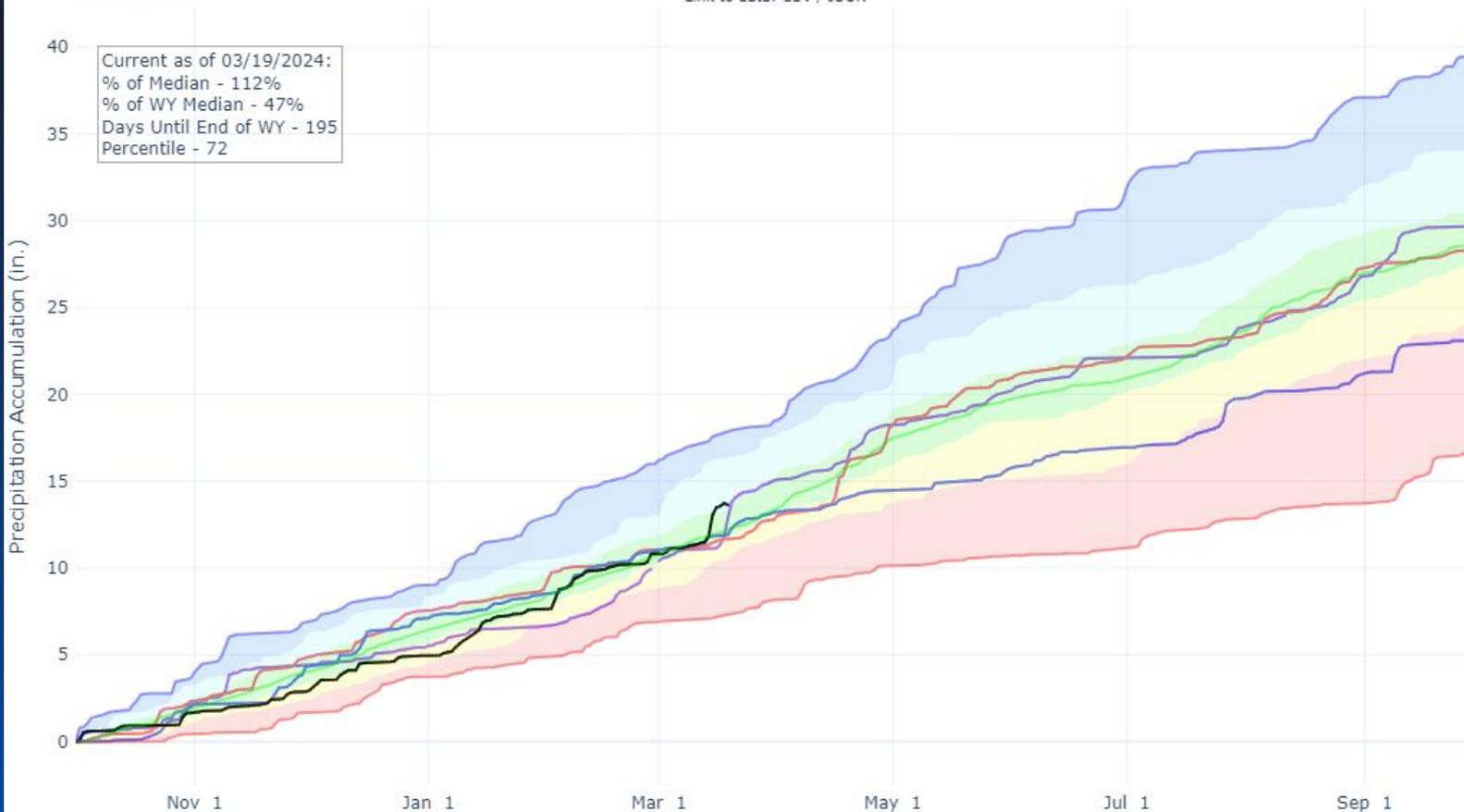
Reset Range

[Link to data: CSV / JSON](#)

Current as of 03/19/2024:  
% of Median - 112%  
% of WY Median - 47%  
Days Until End of WY - 195  
Percentile - 72

Station List

- Max
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (11 sites)
- 2020 (11 sites)
- 2016 (11 sites)
- 2003 (8 sites)



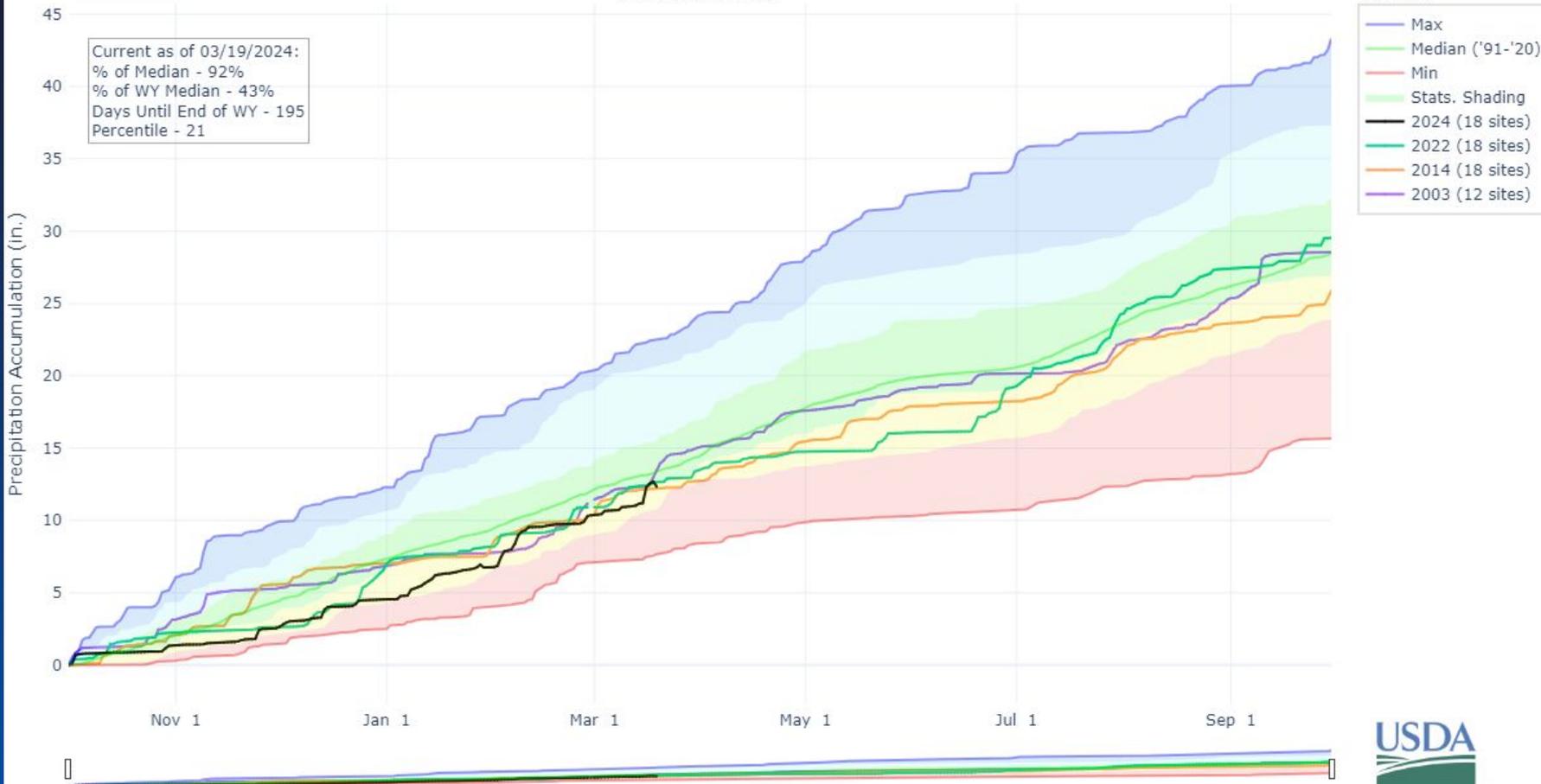
## PRECIPITATION ACCUMULATION IN UPPER RIO GRANDE

Reset Range

[Link to data: CSV / JSON](#)

Station List

Current as of 03/19/2024:  
% of Median - 92%  
% of WY Median - 43%  
Days Until End of WY - 195  
Percentile - 21



## PRECIPITATION ACCUMULATION IN SOUTH PLATTE

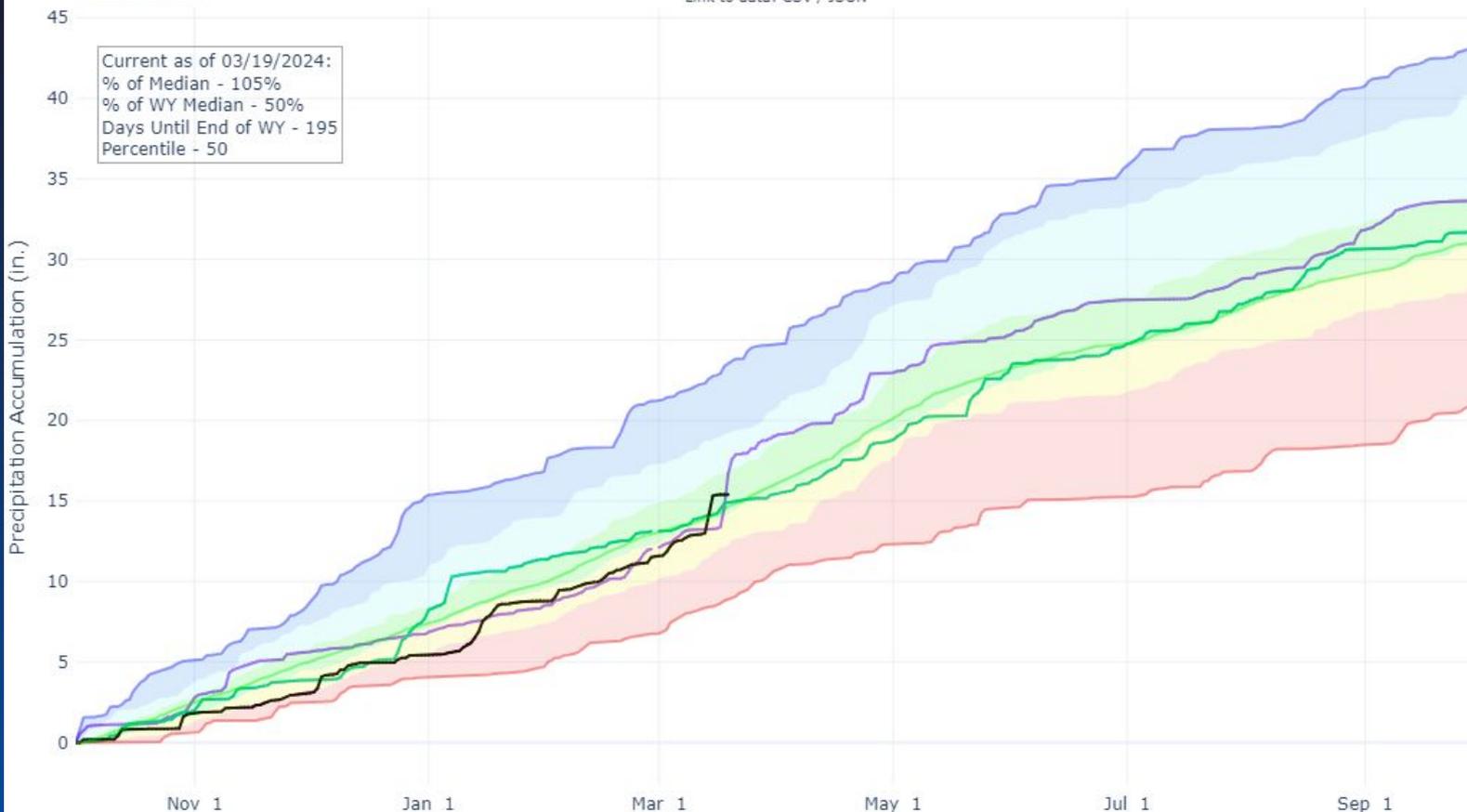
Reset Range

[Link to data: CSV / JSON](#)

Station List

Current as of 03/19/2024:  
% of Median - 105%  
% of WY Median - 50%  
Days Until End of WY - 195  
Percentile - 50

- Max
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (21 sites)
- 2022 (21 sites)
- 2003 (17 sites)

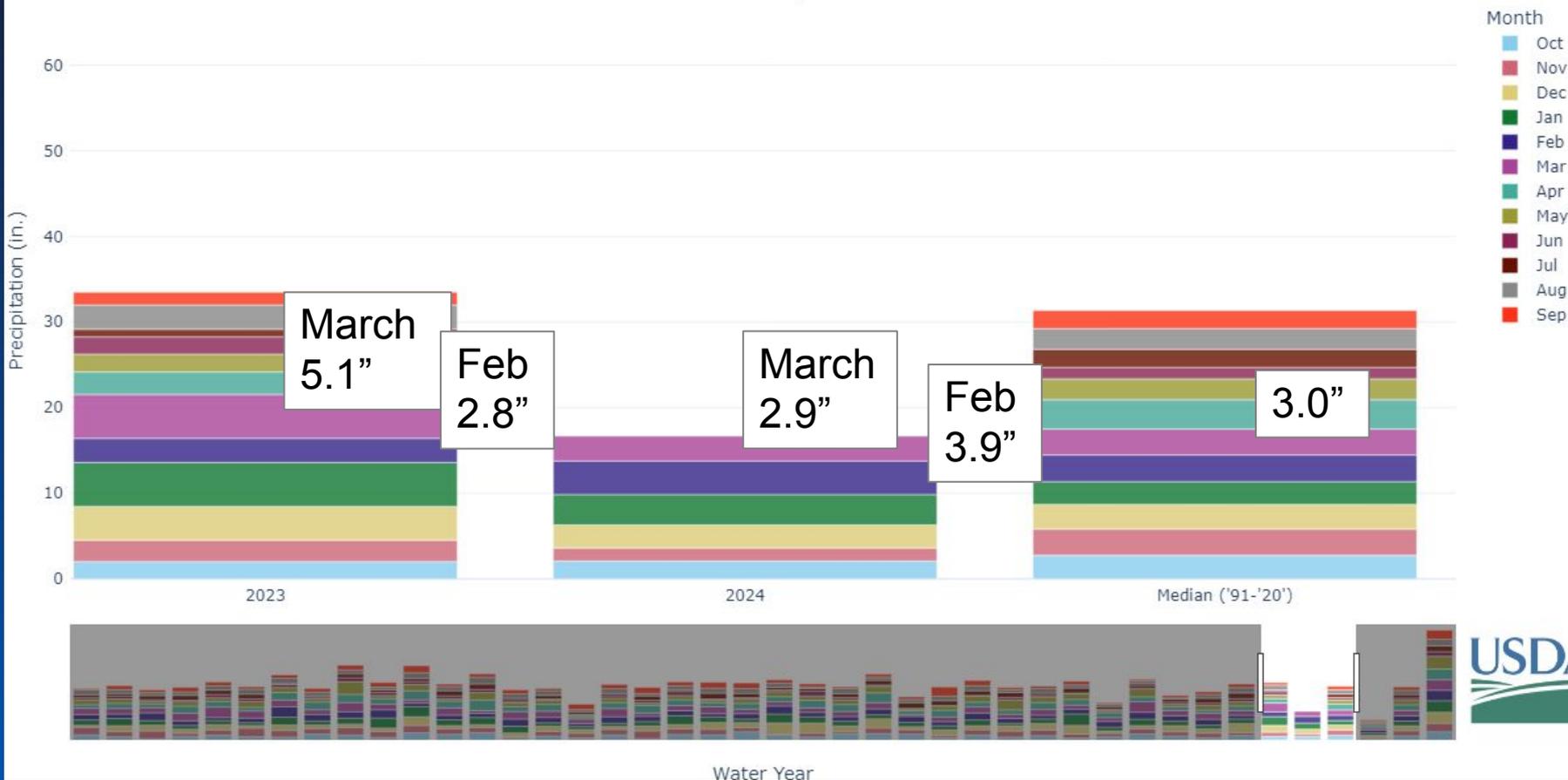


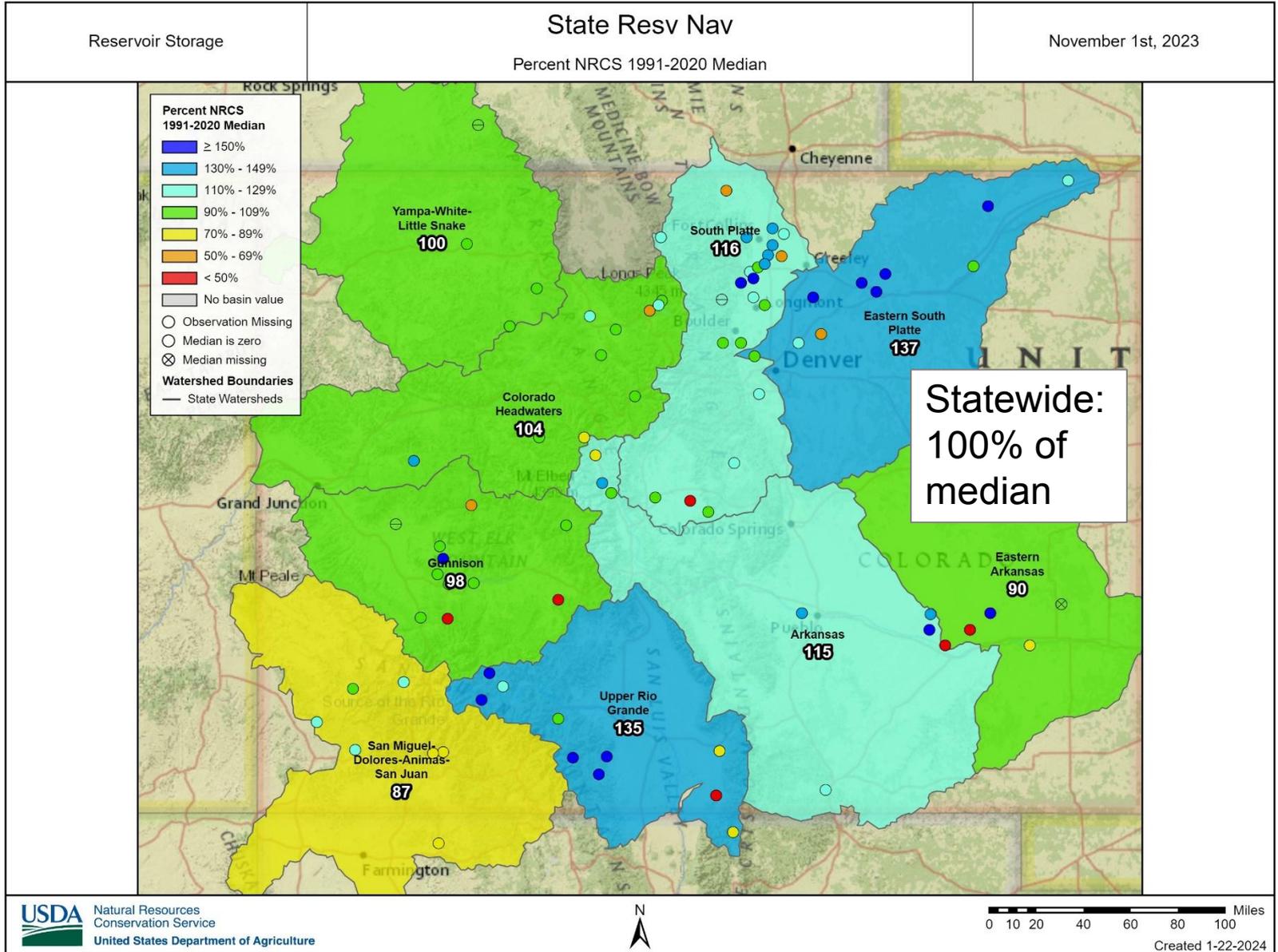


# MTD Precipitation

### STATE OF COLORADO MONTHLY PRECIPITATION SUMMARY

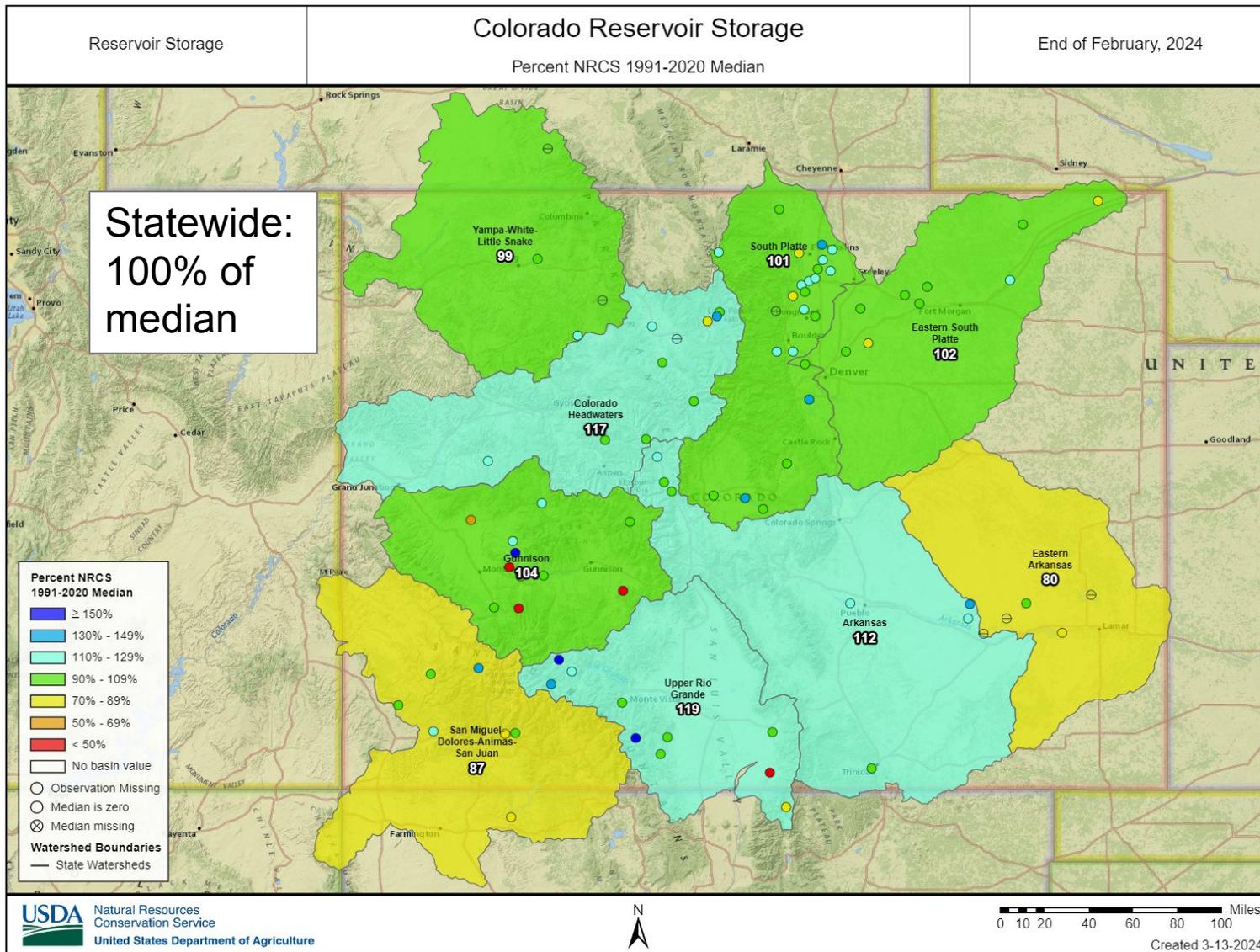
[Link to data: CSV / JSON](#)

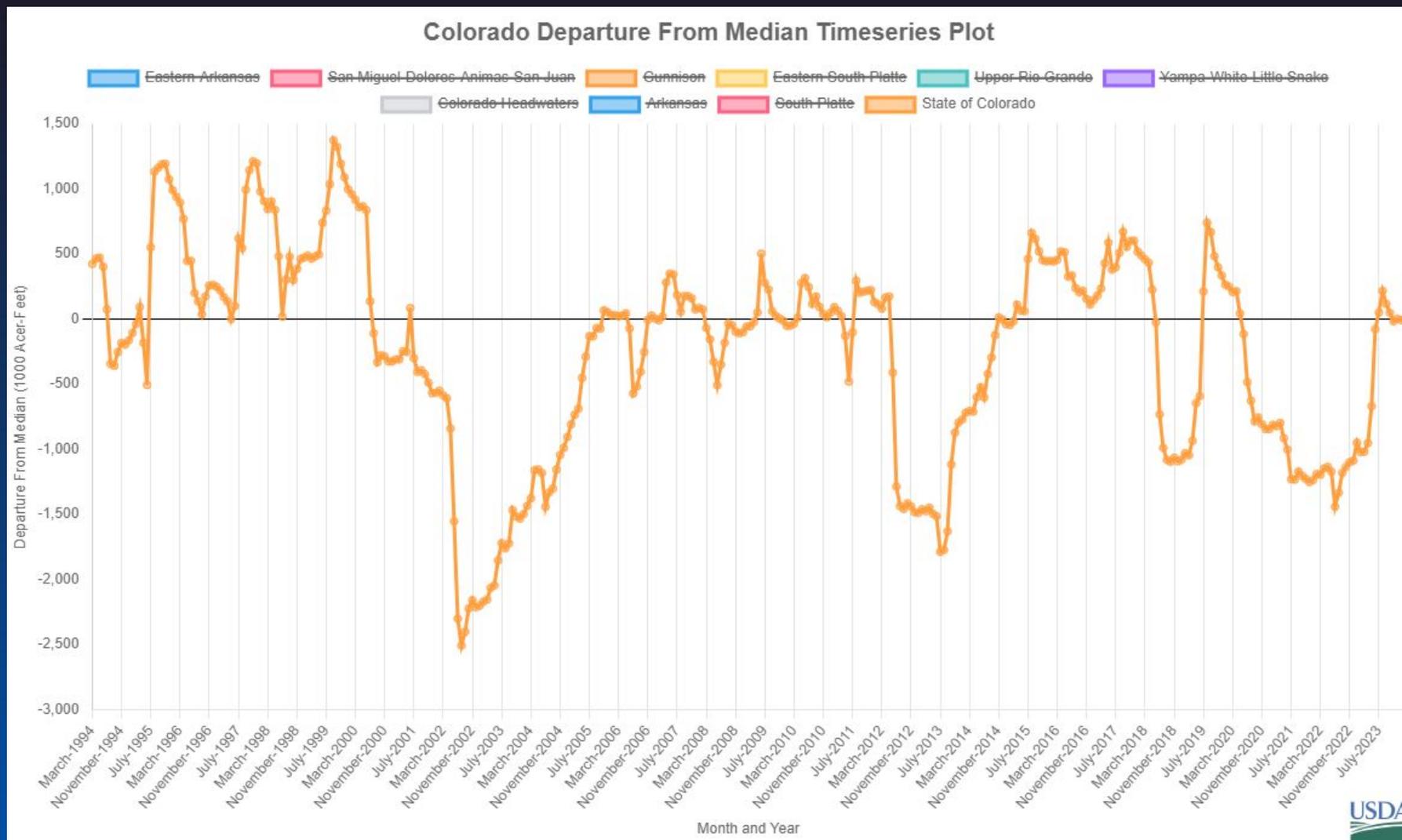




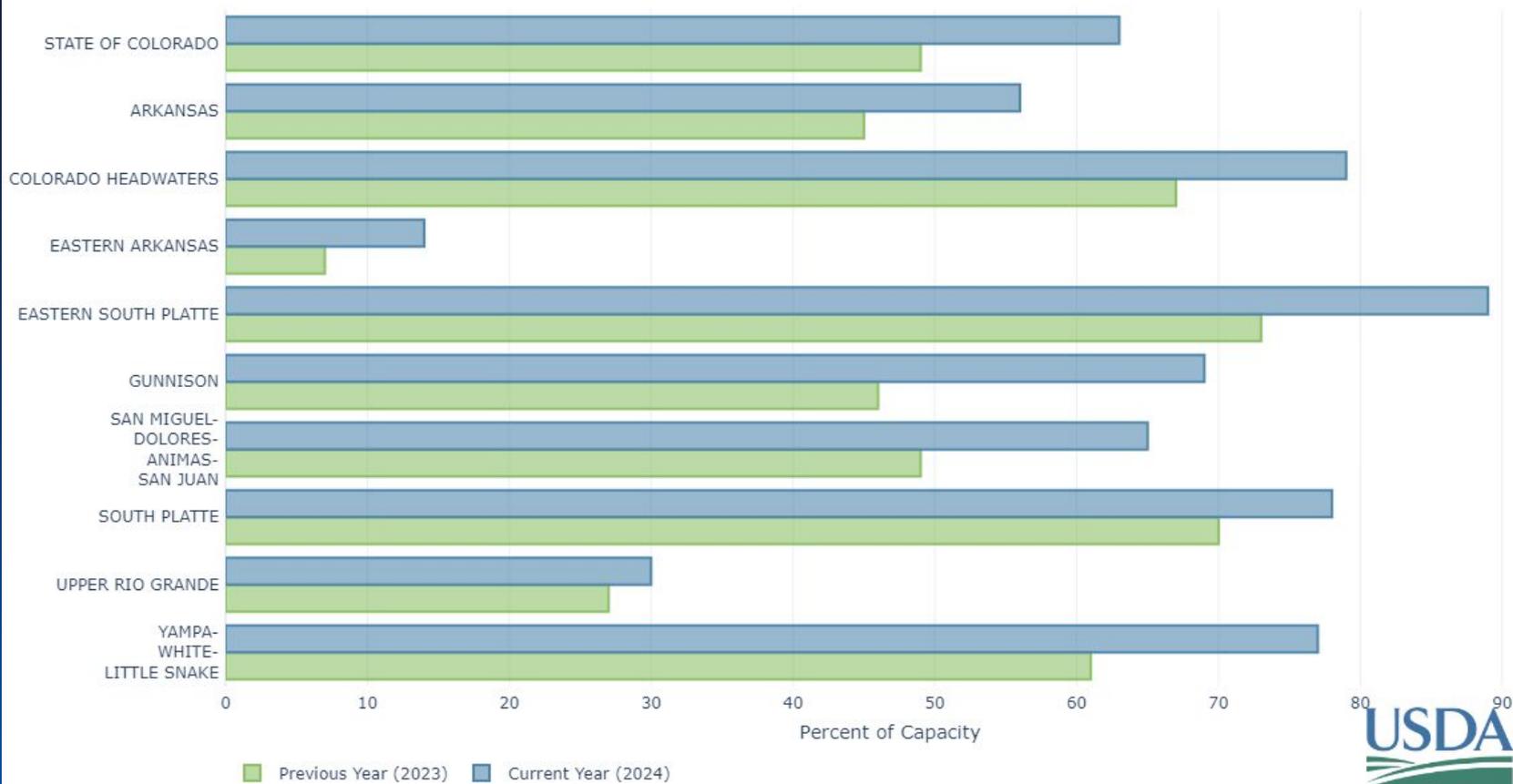


Reservoir Storage on March 1





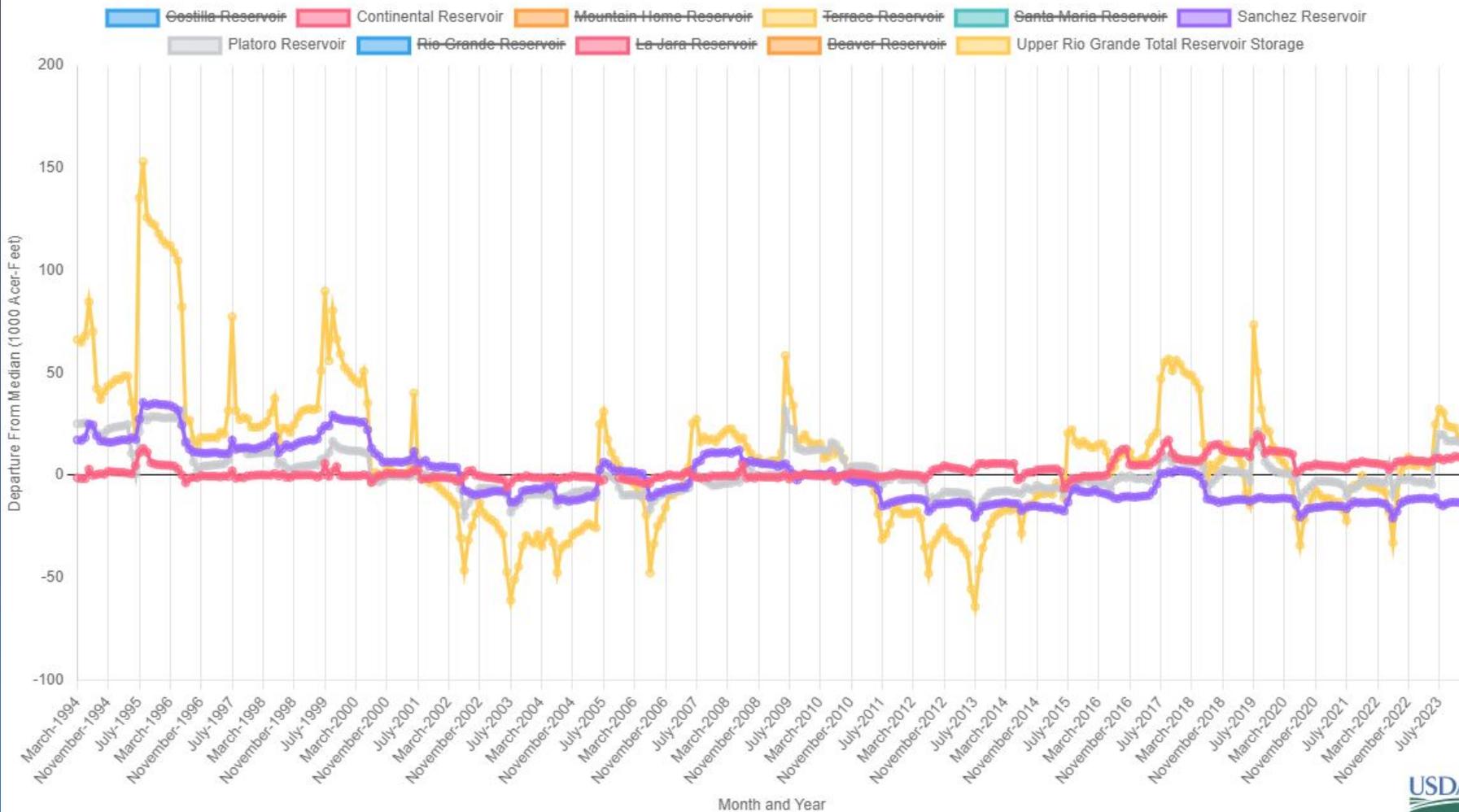
RESERVOIR STORAGE IN COLORADO  
END OF FEBRUARY 2024



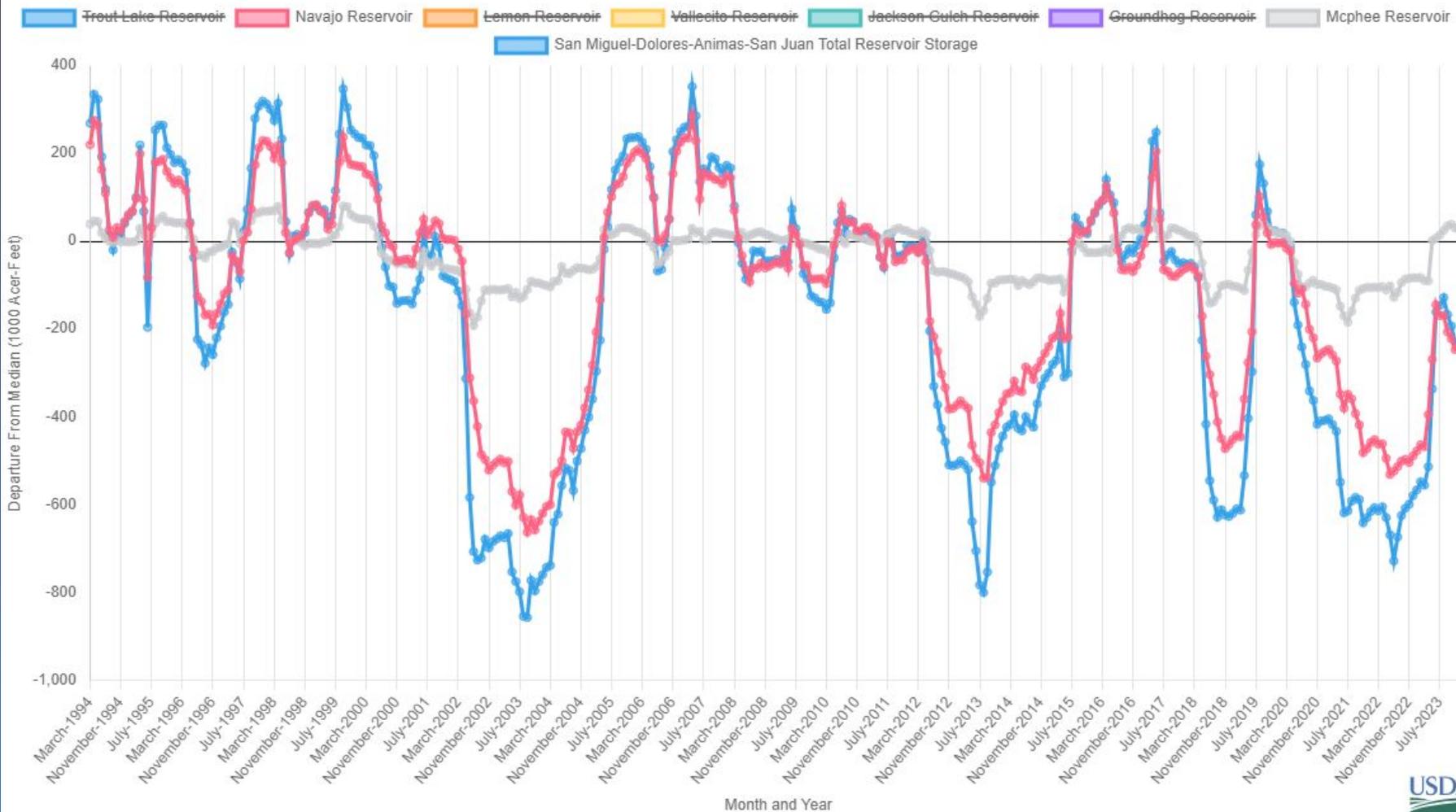


# Reservoir Storage

### Upper Rio Grande Departure From Median Timeseries Plot

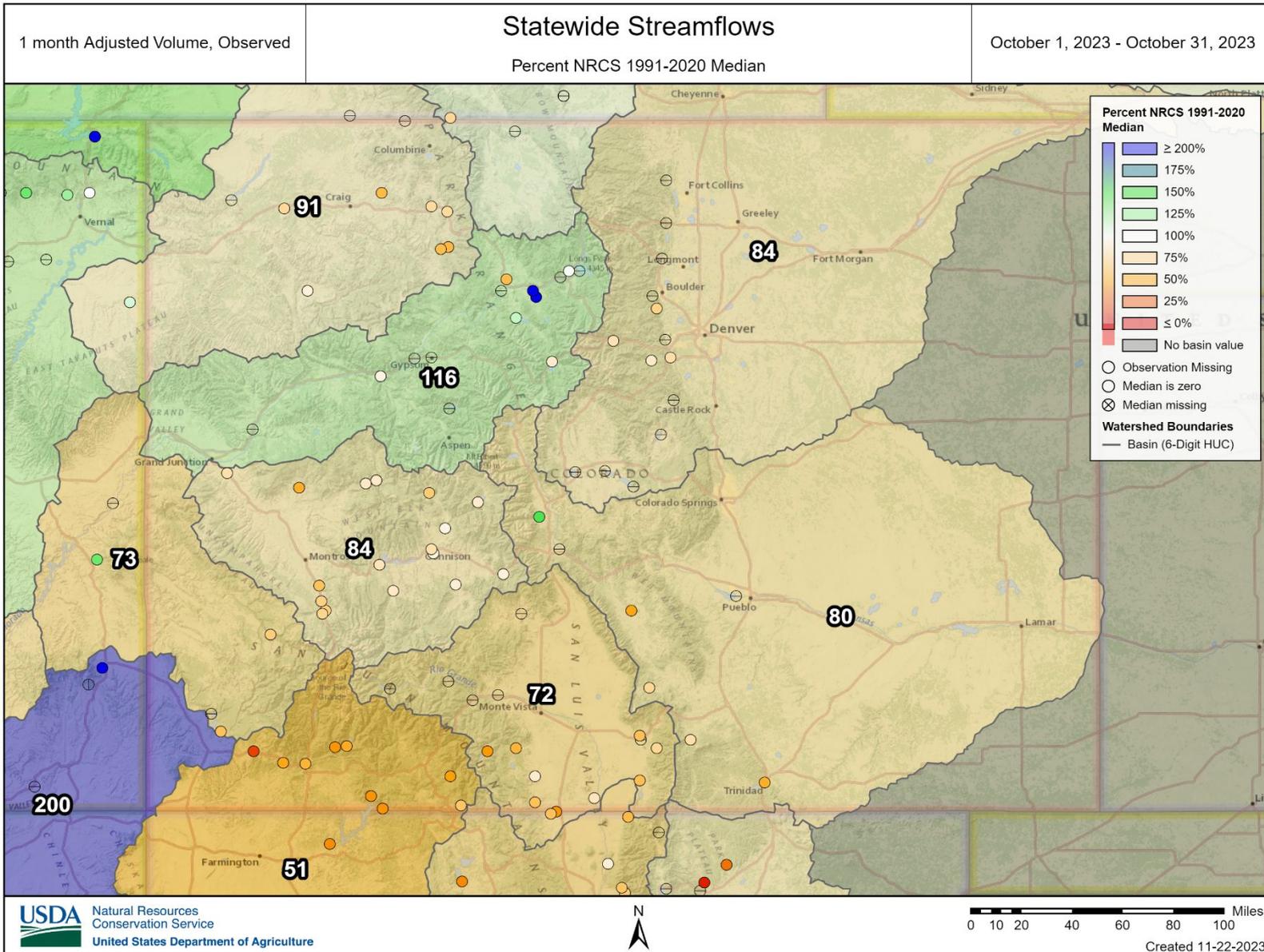


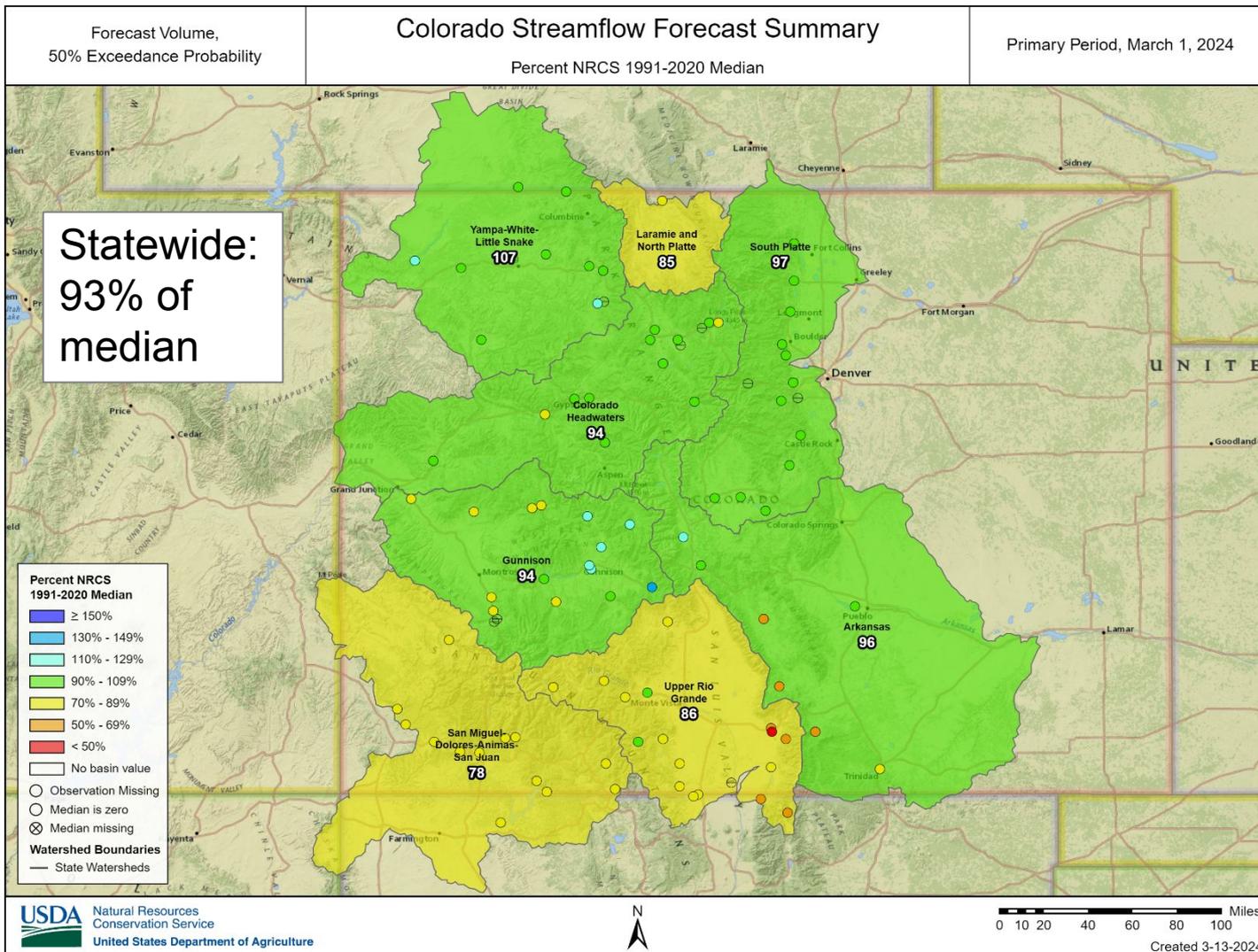
### San Miguel-Dolores-Animas-San Juan Departure From Median Timeseries Plot





## October Observed Streamflow



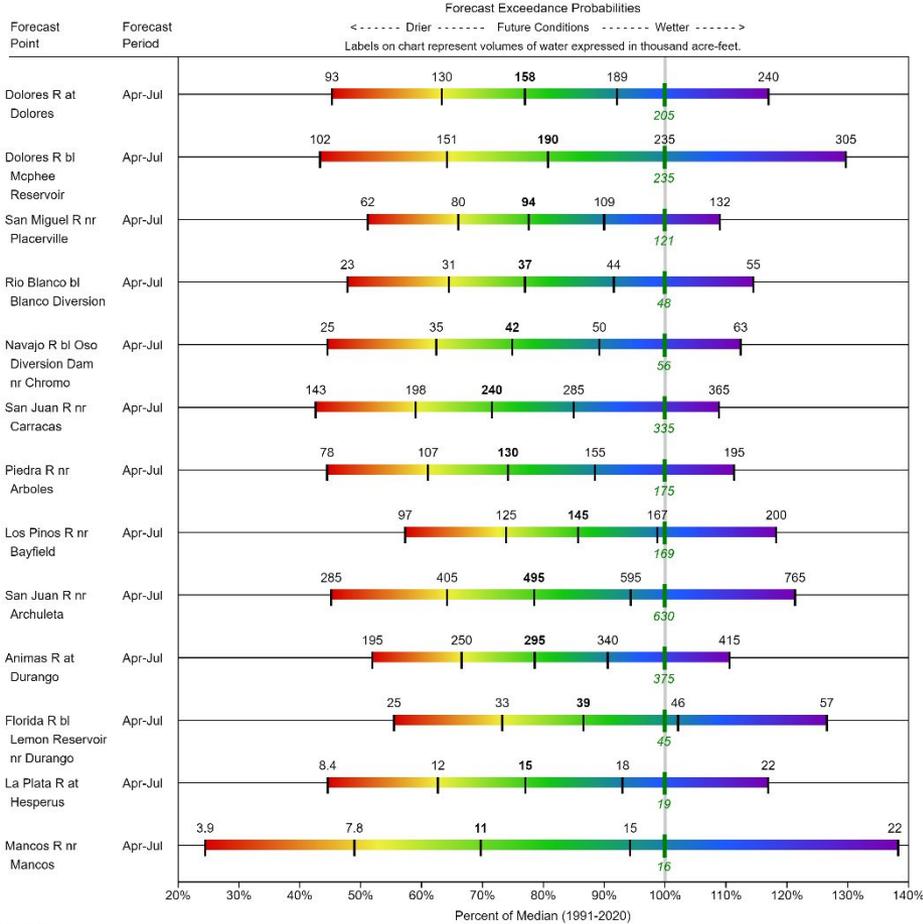




### SAN MIGUEL-DOLORES-ANIMAS-SAN JUAN

#### Water Supply Forecasts

March 1, 2024



#### Legend



When selected, the following historic streamflow values and statistics will be shown.

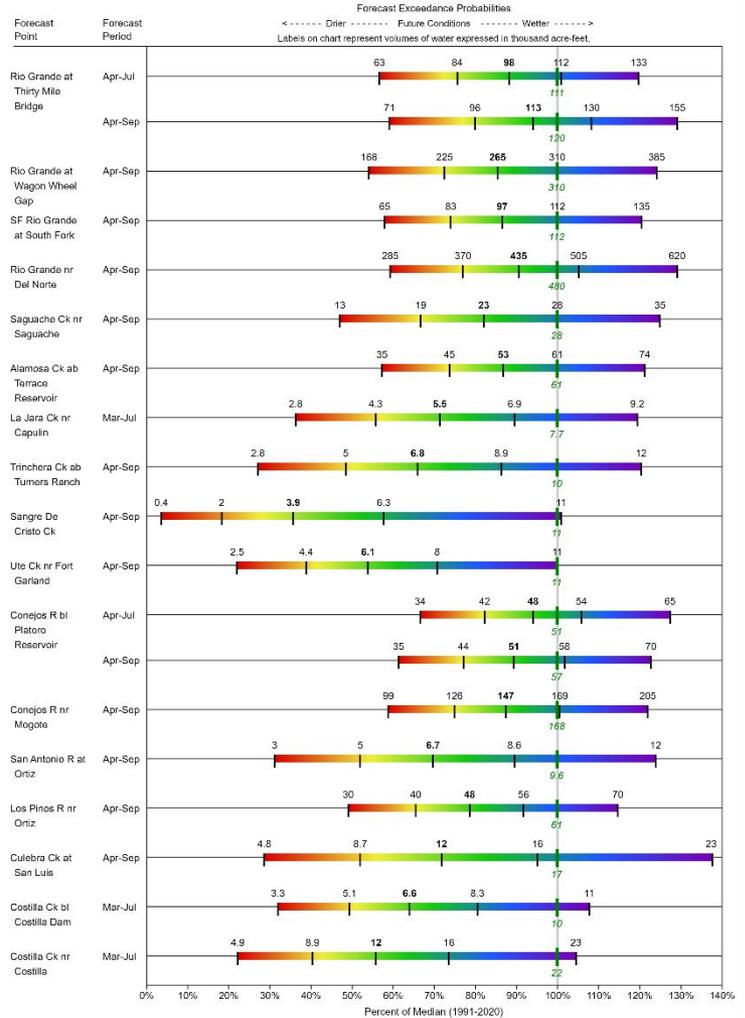


Some forecasts may be for volumes that are regulated or influenced by diversions and water management.

### UPPER RIO GRANDE

#### Water Supply Forecasts

March 1, 2024



#### Legend



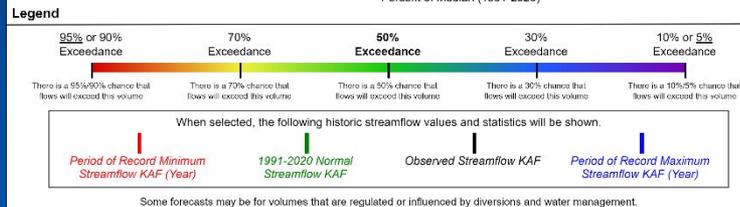
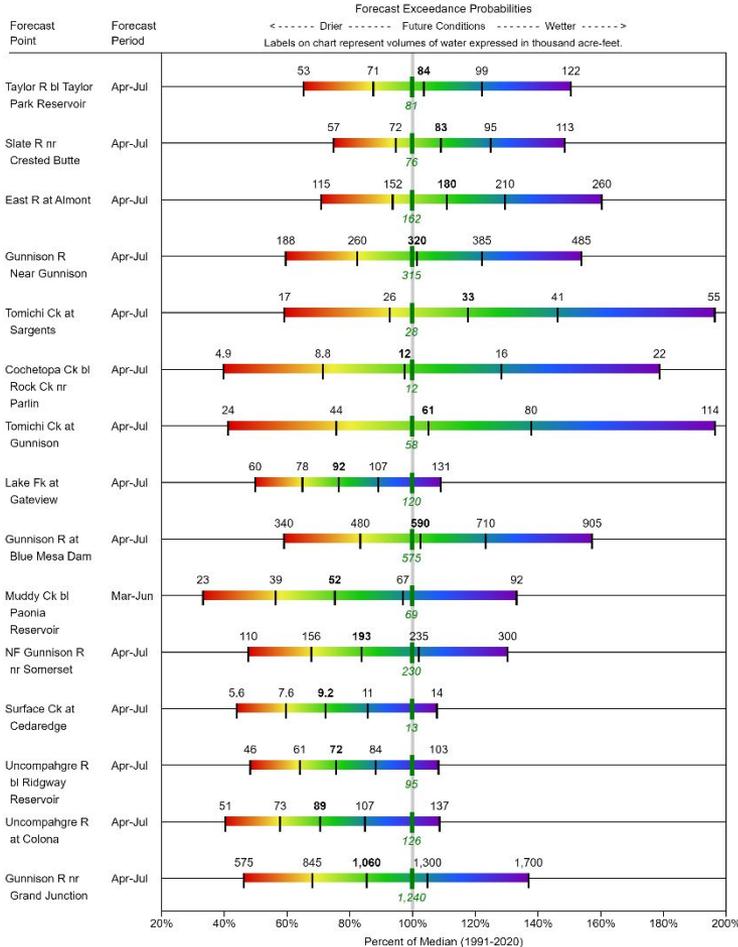
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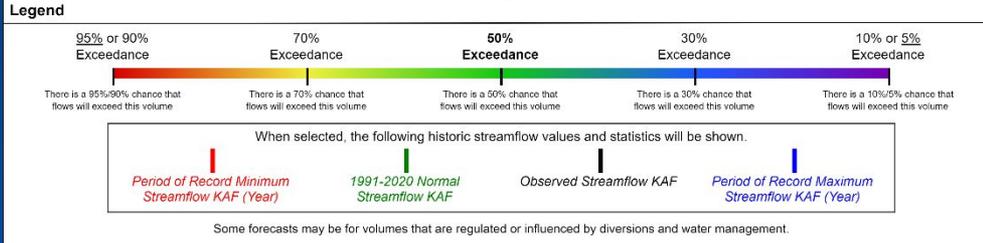
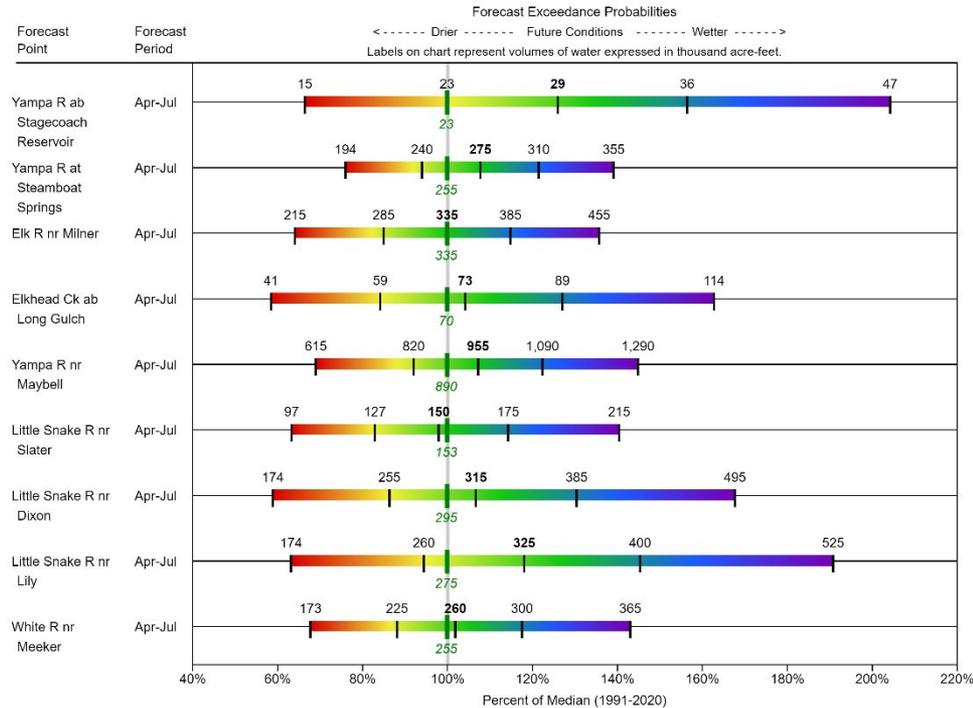
Some forecasts may be for volumes that are regulated or influenced by diversions and water management.



### GUNNISON Water Supply Forecasts February 1, 2024



### YAMPA-WHITE-LITTLE SNAKE Water Supply Forecasts March 1, 2024



# Summary

- Statewide snowpack is 109% of median.
  - Lowest basin is the Upper Rio Grande @ 101%
  - Highest basins are
    - South Platte @114%
    - Combined Yampa-White-N. Platte 113%
- A 13% increase since last month's presentation.
- Recent storms in late February, early March and last weeks storm have exceeded expectations providing a boost and potential to mitigate the pre-existing deficit.
- In a normal year, by 3/19 CO has typically accumulated about 89% of its median annual peak snowpack
- Statewide reservoir storage is 100% of median
- Statewide precipitation is 103% of median. Ranging from 92% in the SMDASJ to 113% in the Arkansas.



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## NRCS Snow Survey and Water Supply Forecasting Program

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