



Water Conditions Monitoring Committee Meeting

July 23rd, 2024

NRCS Snow Survey and Water Supply Forecasting
Program

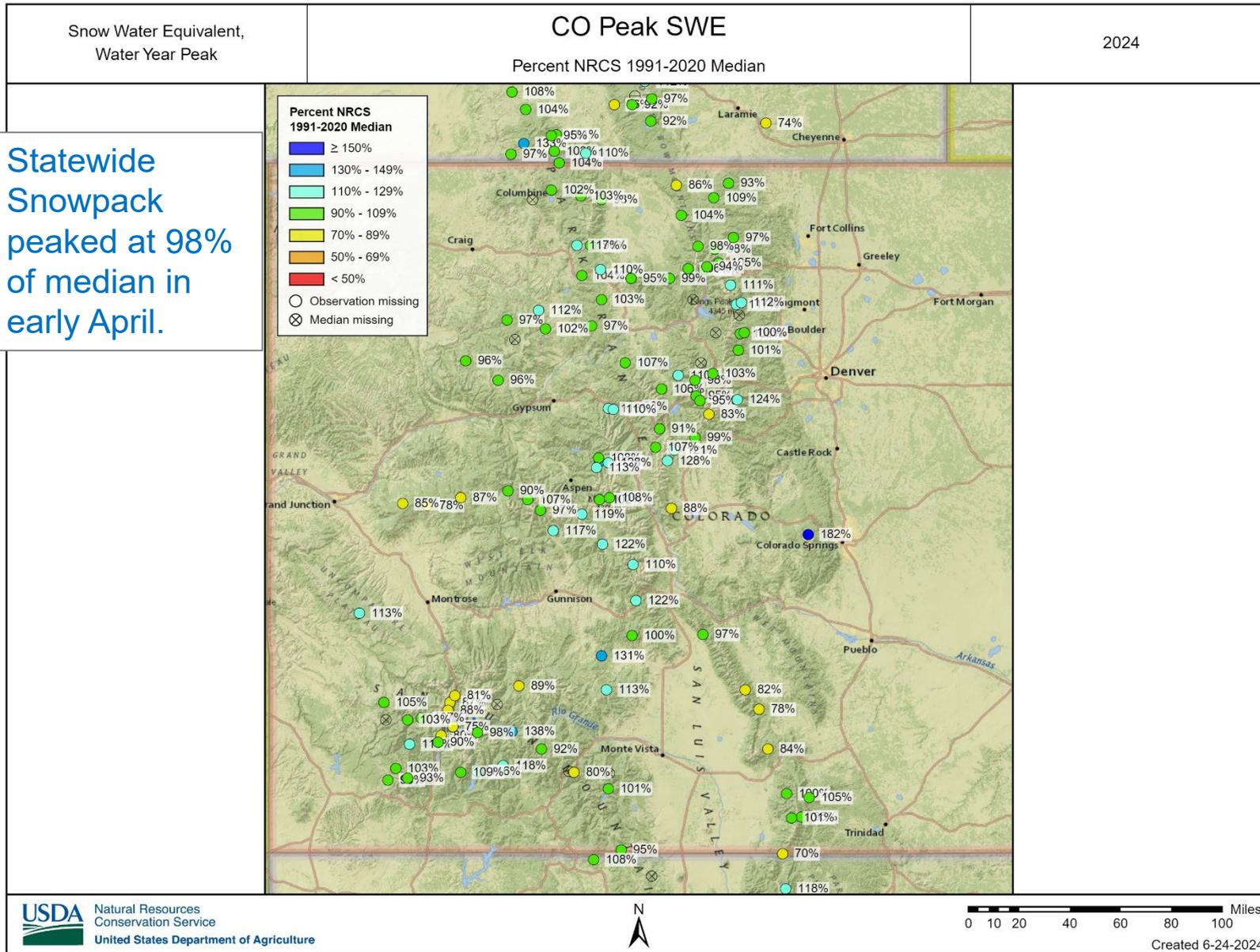
Brian Domonkos

Hydrologist

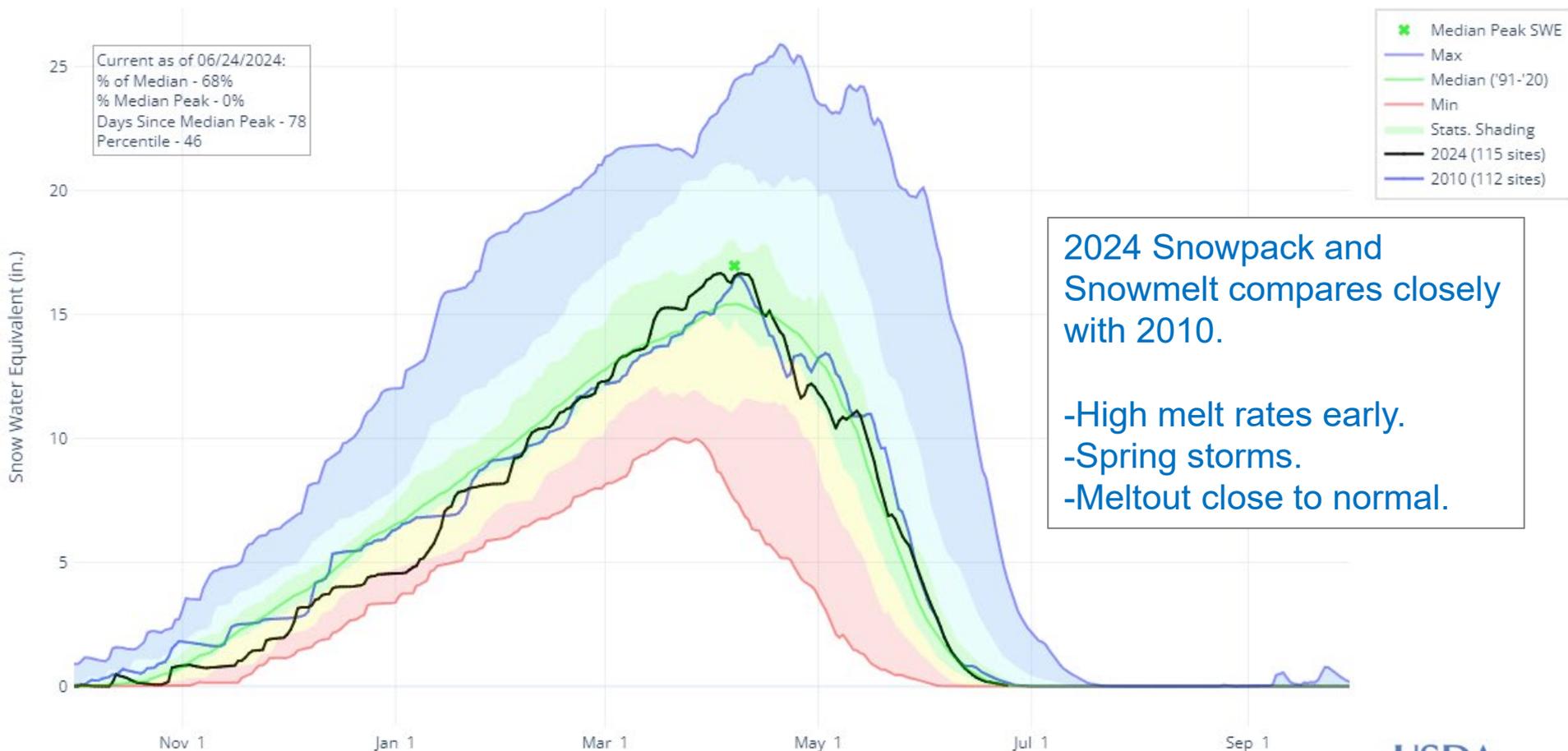
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<http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/>



SNOW WATER EQUIVALENT IN STATE OF COLORADO





Colorado's Major Basin Snowpack Peak Levels and Timing

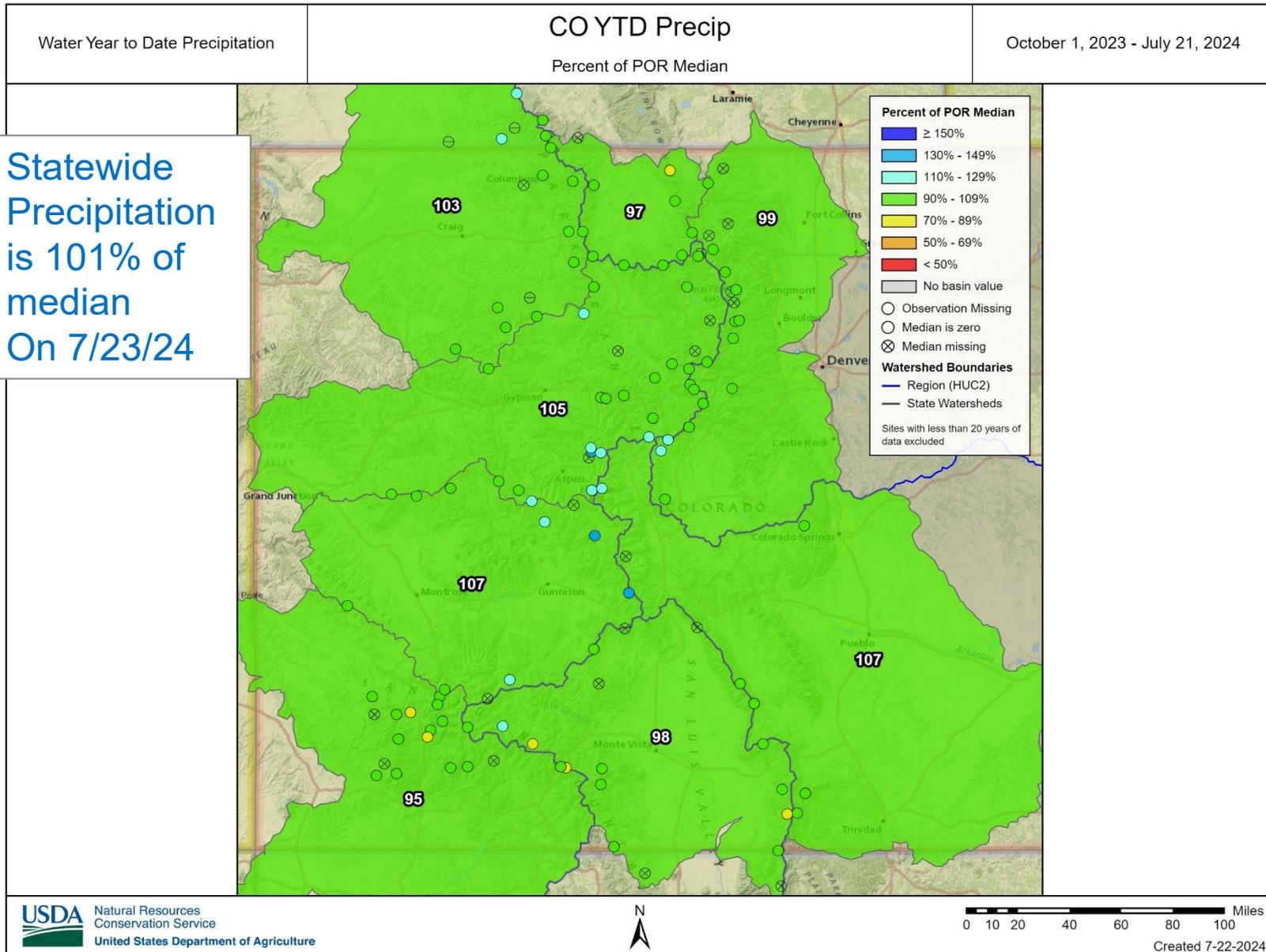
Basin	Normal Peak Date	Normal Peak SWE	Peak Date	Peak SWE	% of Norm Peak SWE	% of Norm SWE 5/20
SMDASJ	4/1	18.6	4/2	18.1	97%	47%
URG	4/2	14.5	4/3	12.9	89%	41%
Arkansas	4/3	12.0	4/3	12.6	105%	136%
Yampa-White-LS	4/7	21.3	4/6	22.0	103%	119%
Gunnison	4/8	17.9	4/10	16.3	91%	98%
Colorado Headwaters	4/12	17.5	4/11	17.1	98%	117%
NP-Laramie	4/21	24.7	4/18*	23.7*	96%	109%
S. Platte	4/24	16.7	5/13	15.5	93%	120%
Statewide	4/7	17.0	4/3	16.7	98%	109%

* = a second (lesser) peak occurred on 5/11 at 23.6 inches of SWE



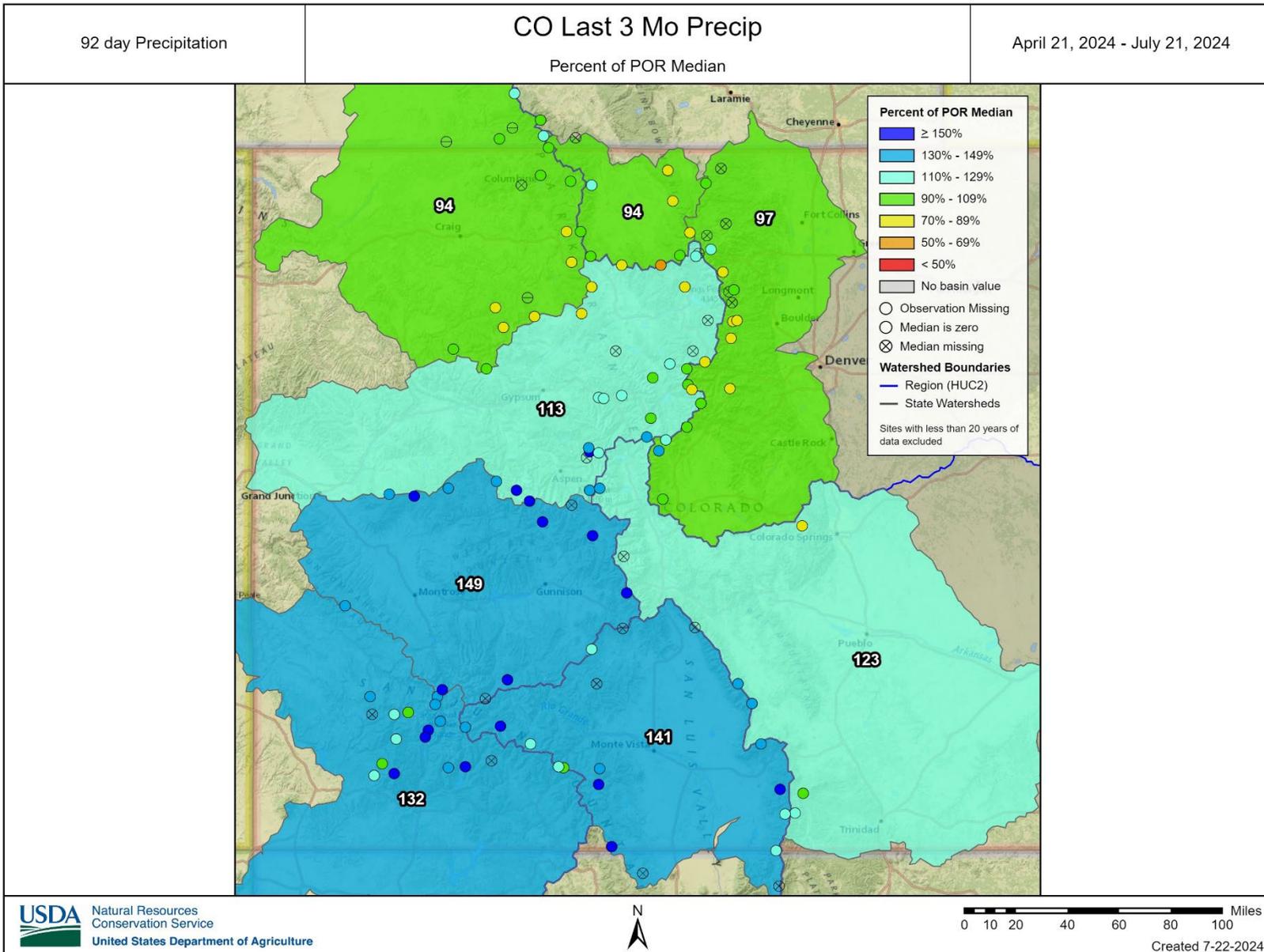
WY Precipitation

Statewide
Precipitation
is 101% of
median
On 7/23/24

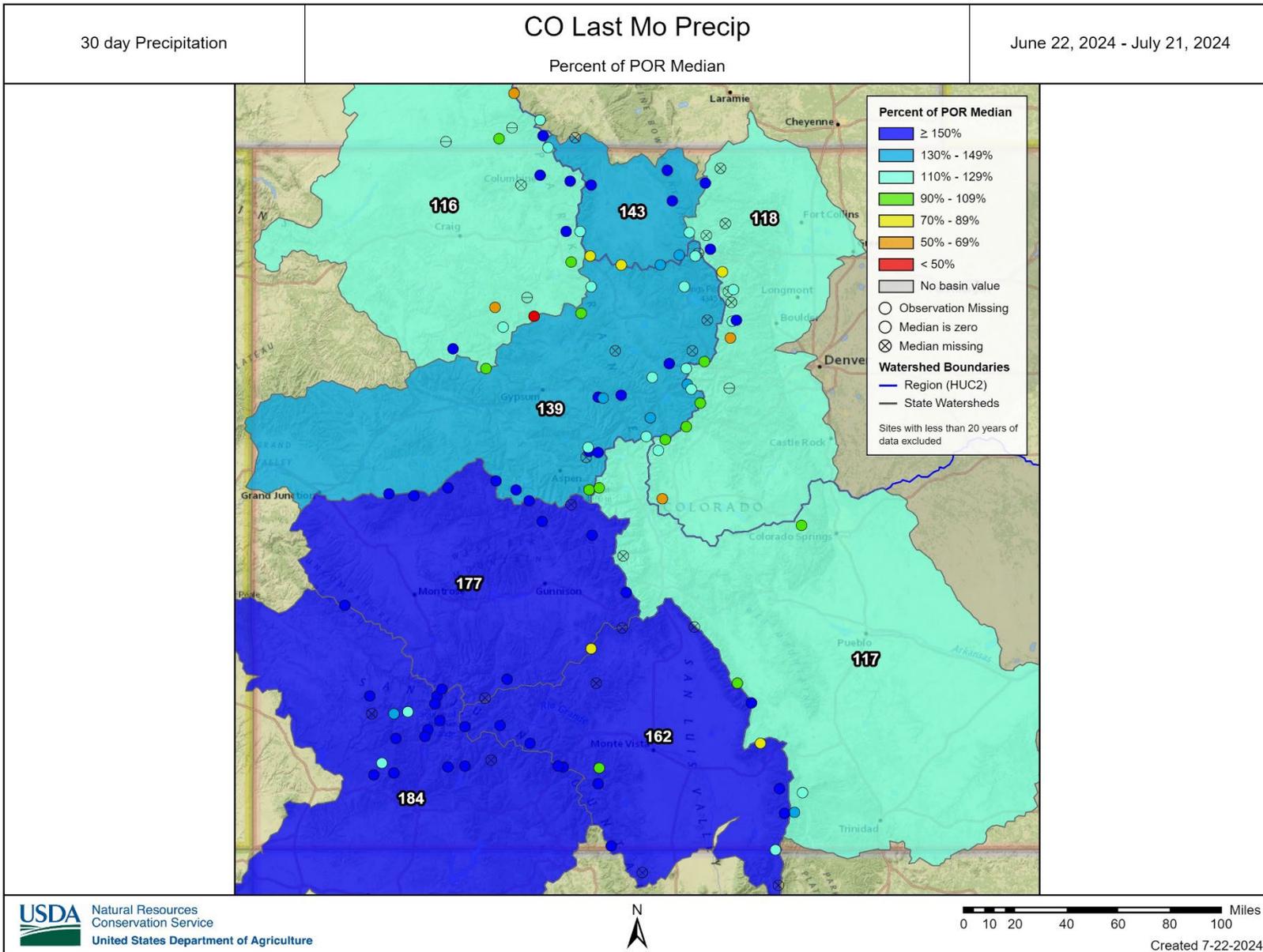




Last 92 days Precipitation

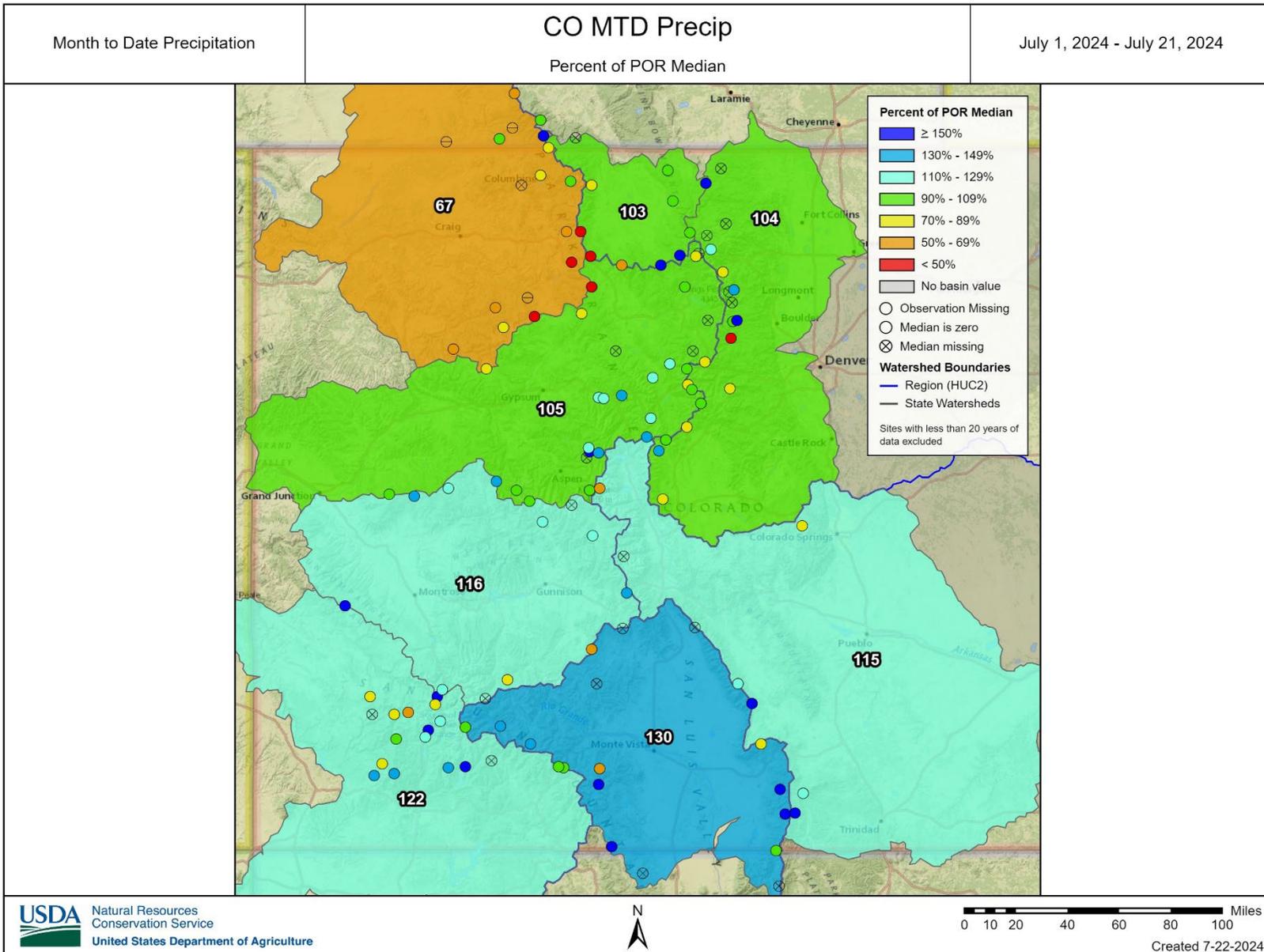


Last 30 Days Precipitation

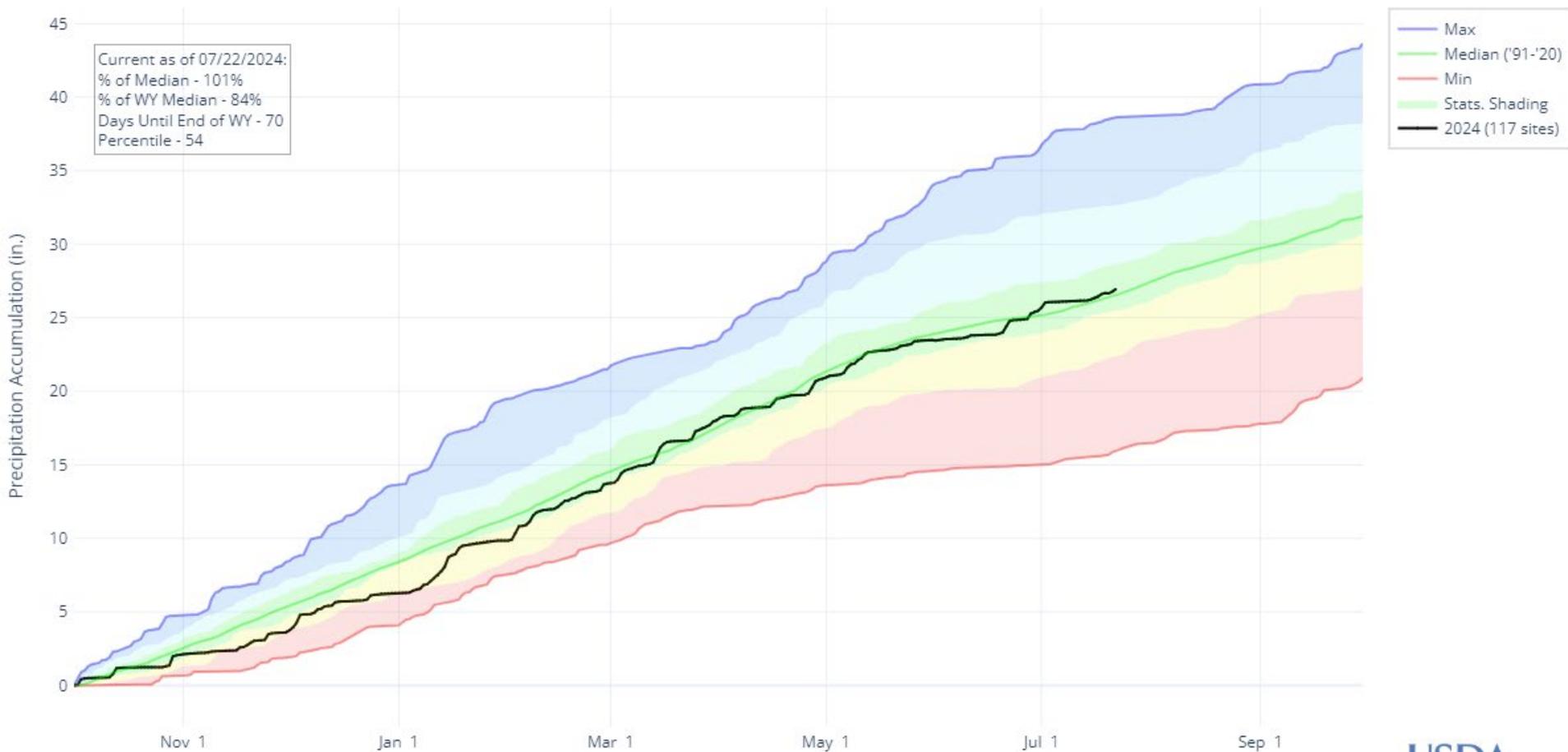




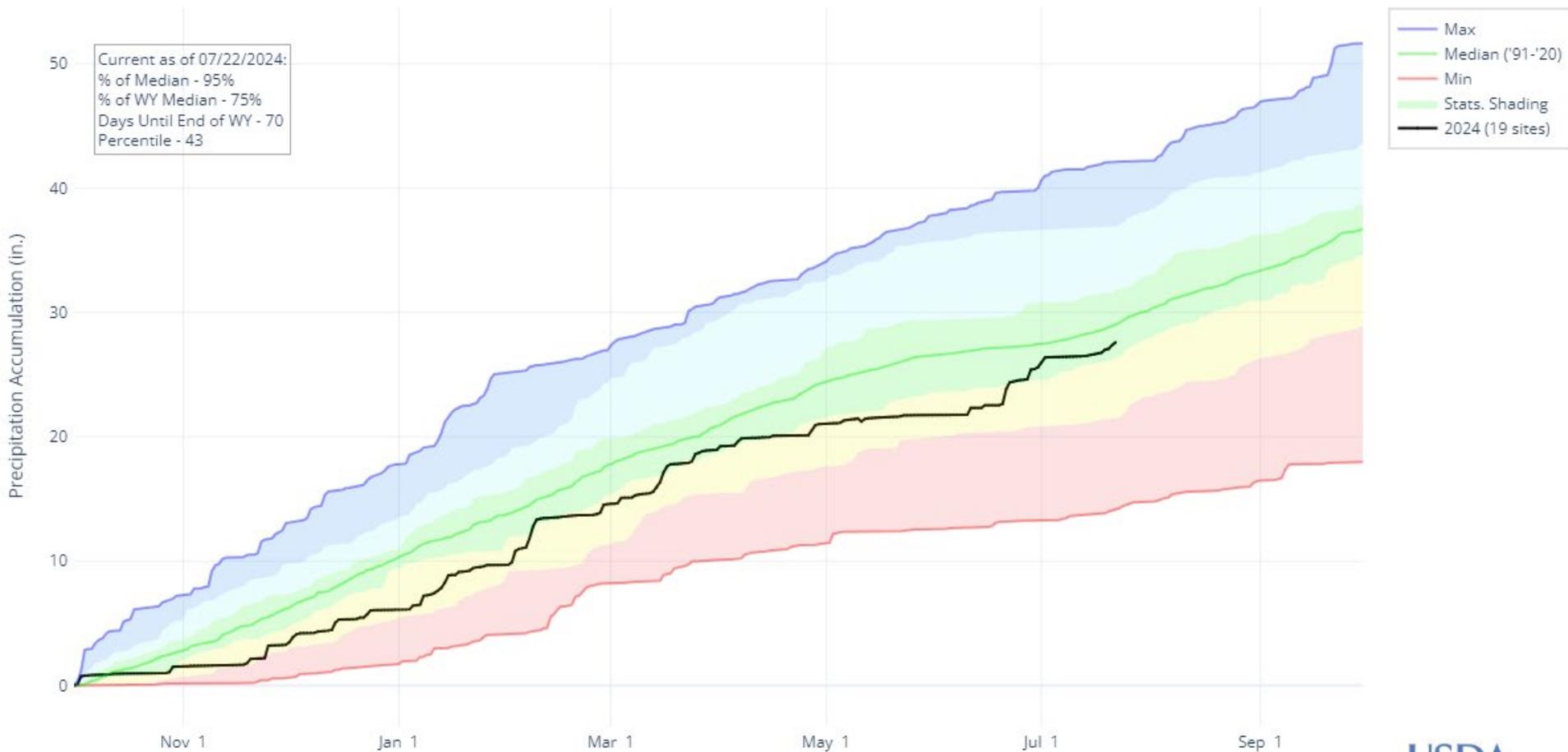
Month to Date Precipitation



PRECIPITATION ACCUMULATION IN STATE OF COLORADO



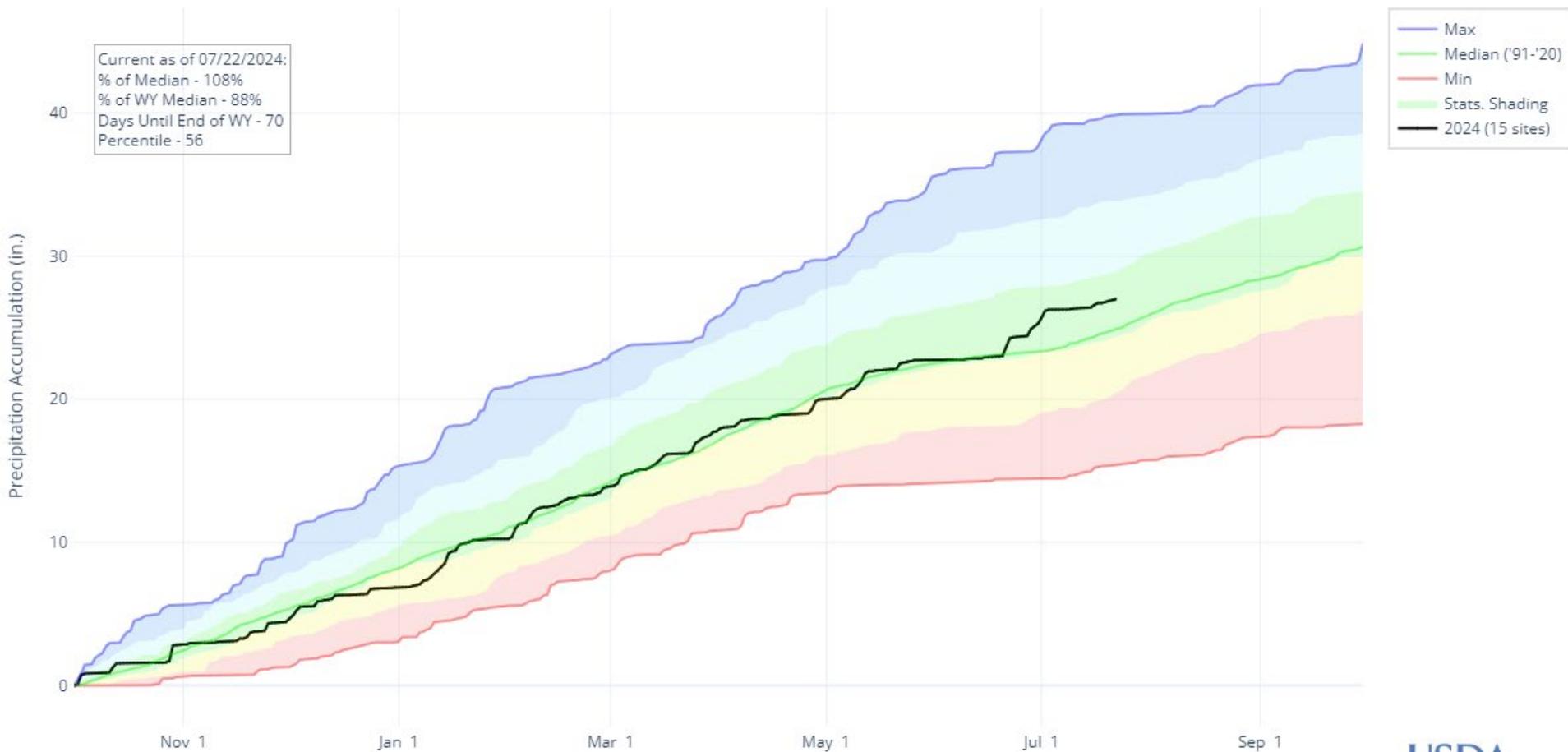
PRECIPITATION ACCUMULATION IN SAN MIGUEL-DOLORES-ANIMAS-SAN JUAN



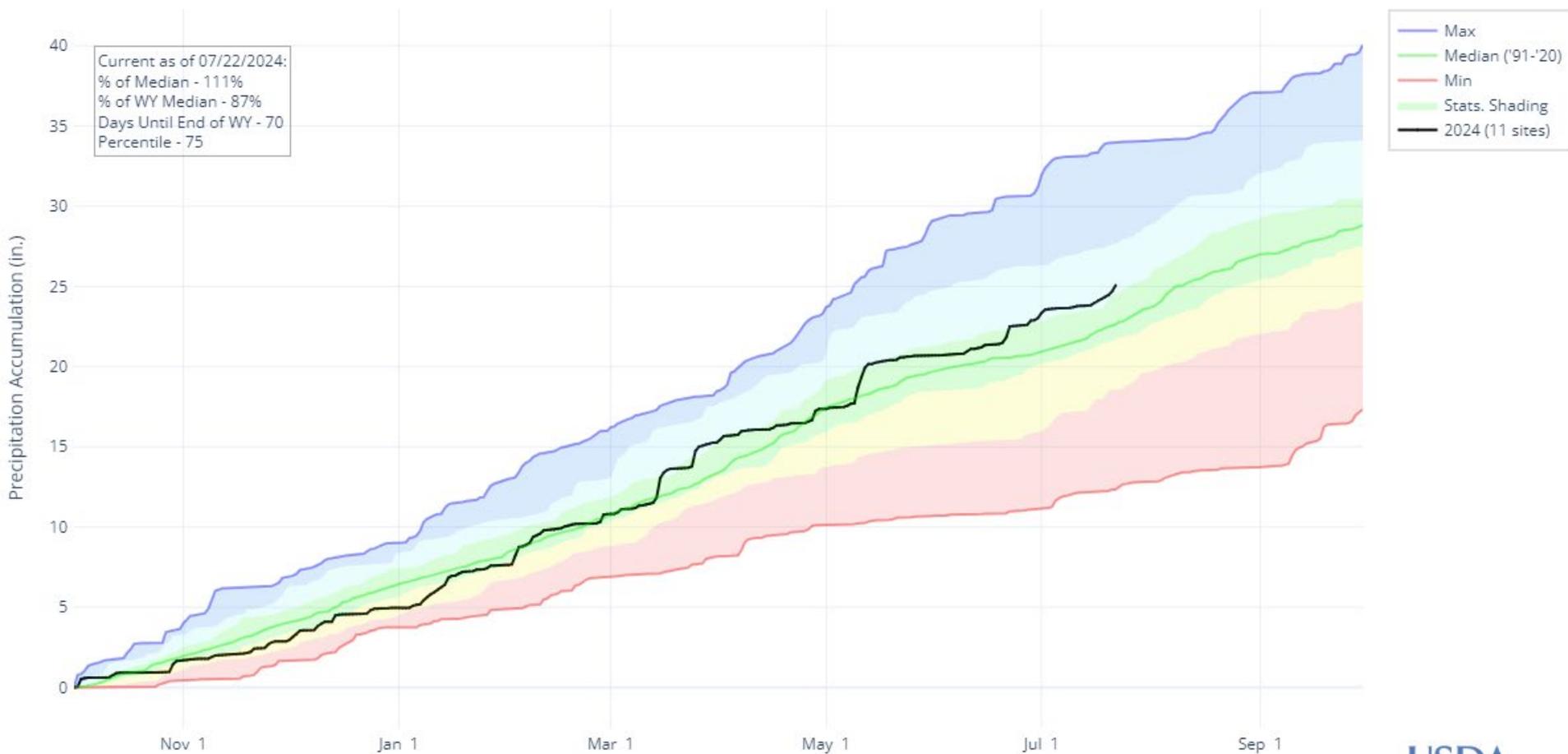
Current as of 07/22/2024:
% of Median - 95%
% of WY Median - 75%
Days Until End of WY - 70
Percentile - 43

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

PRECIPITATION ACCUMULATION IN GUNNISON

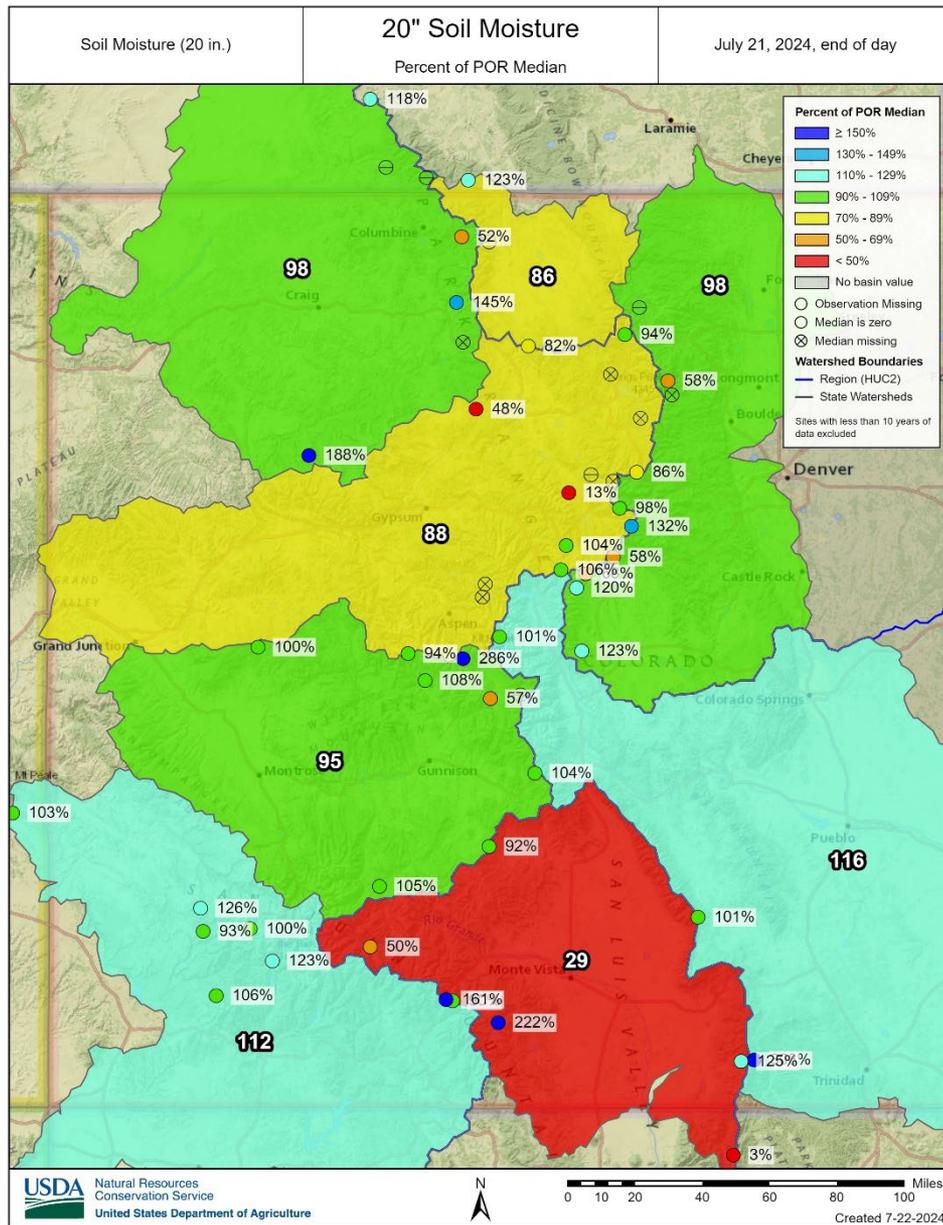


PRECIPITATION ACCUMULATION IN ARKANSAS



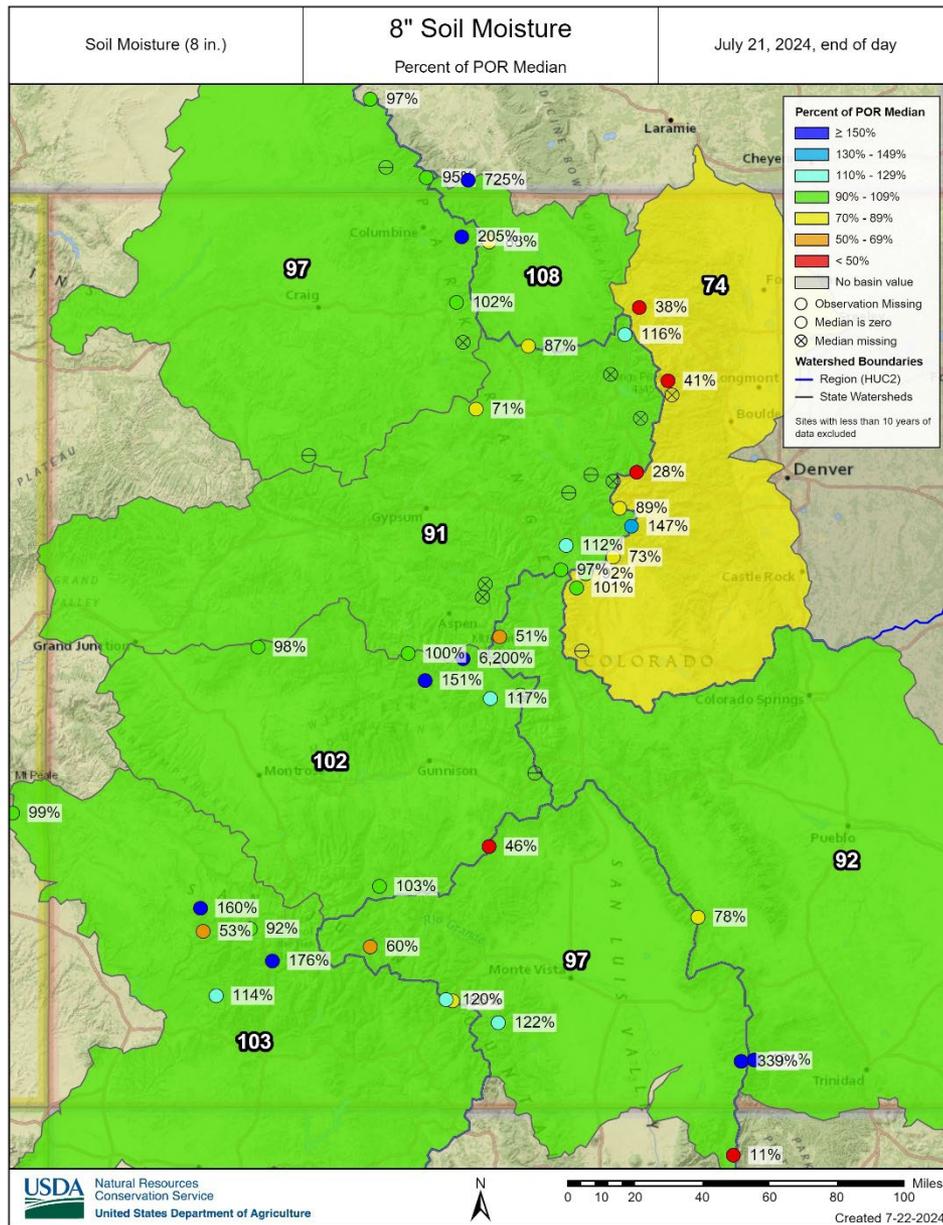


20 Inch Soil Moisture Data

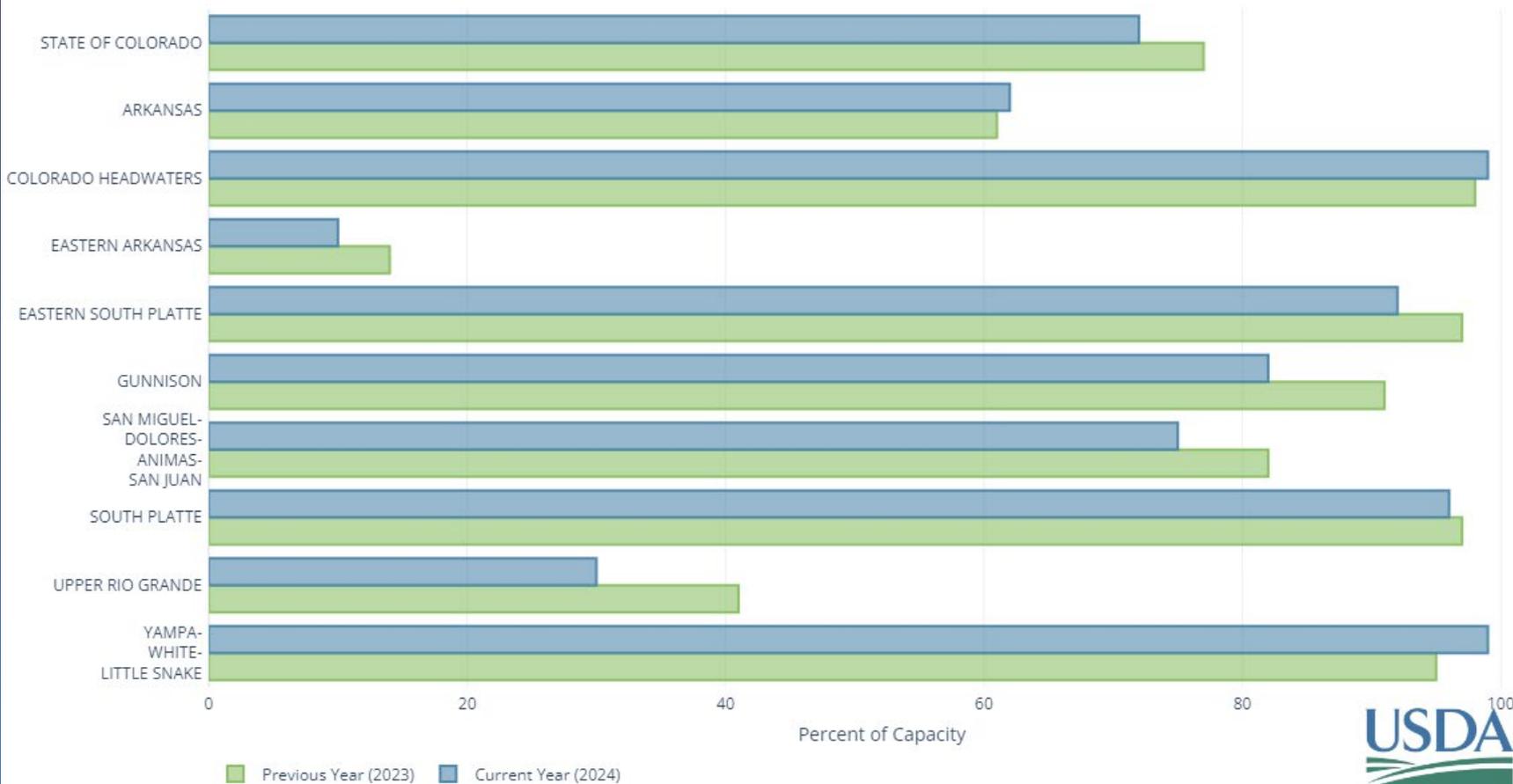




8 Inch Soil Moisture Data

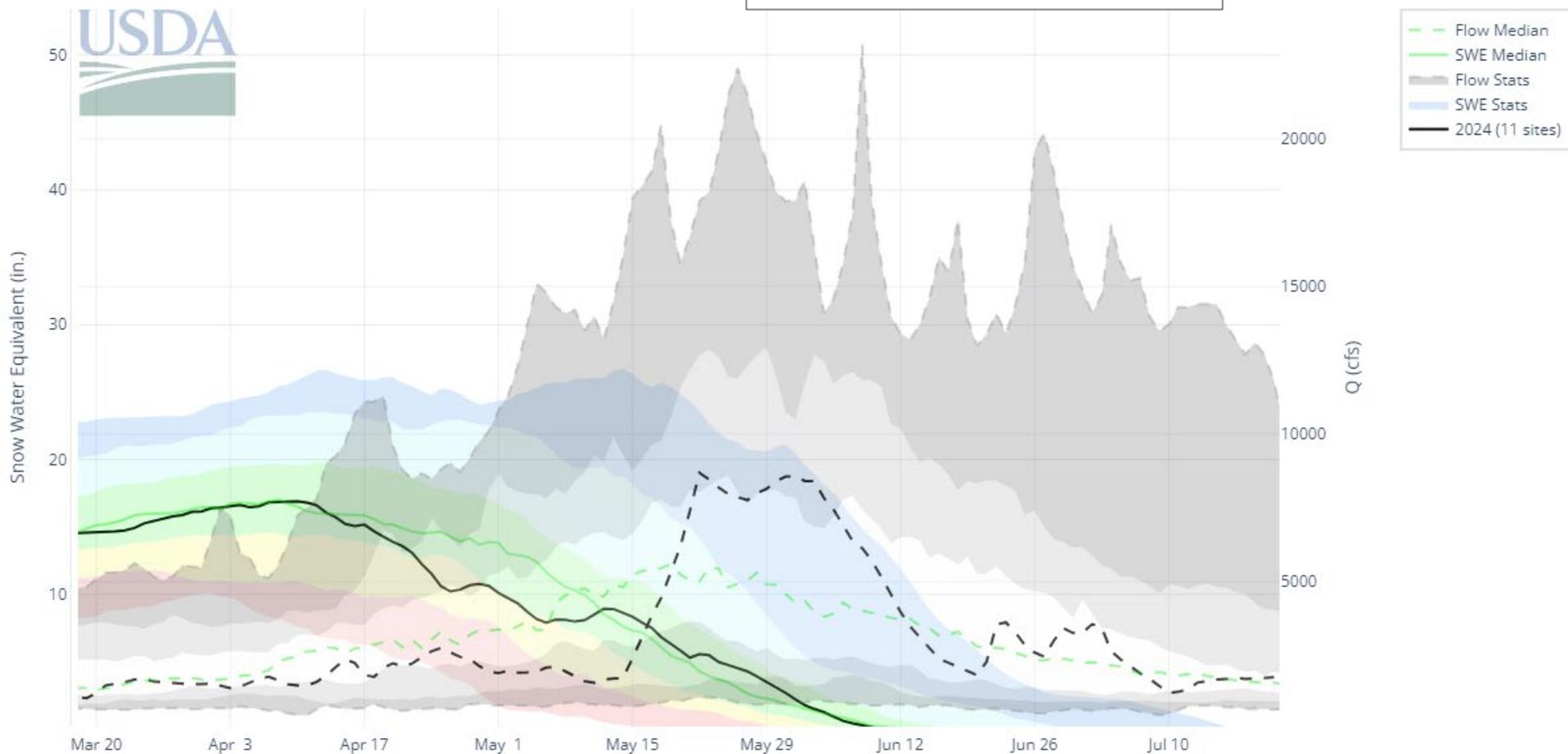


RESERVOIR STORAGE IN COLORADO
END OF JUNE 2024



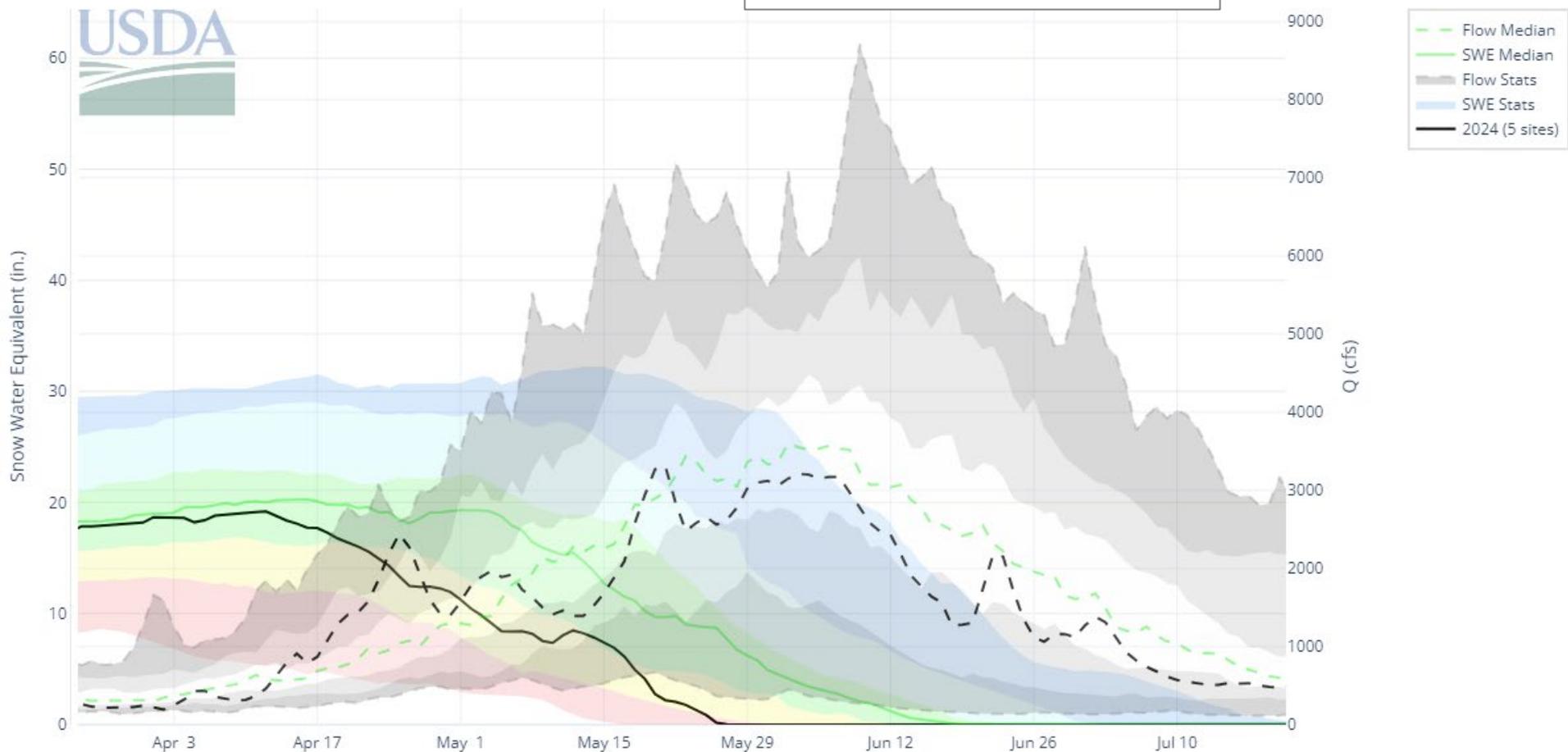
Gunnison R nr Grand Junction Snow to Flow Plot

94% of median flow on 7/22



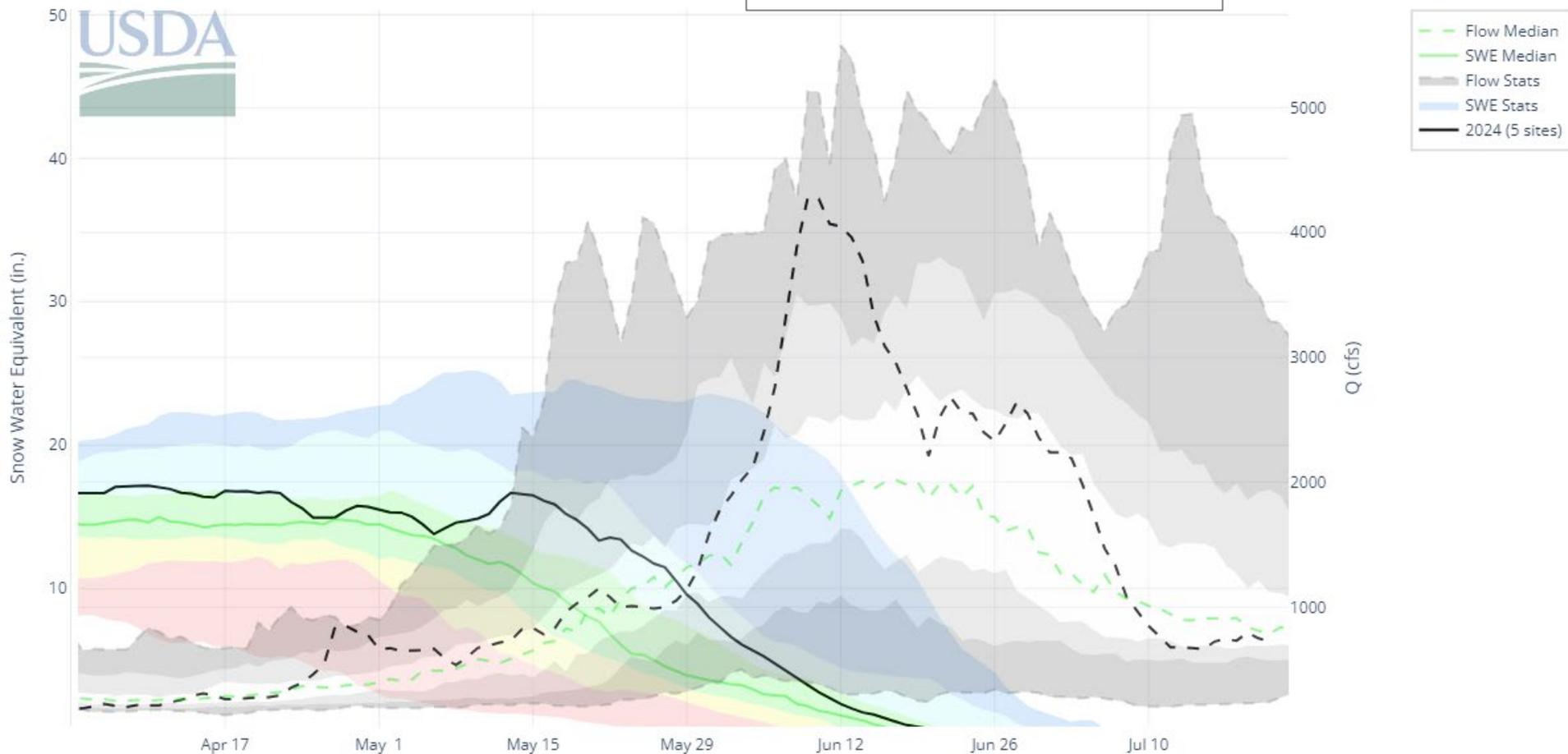
Rio Grande nr Del Norte Snow to Flow Plot

46% of median flow on 7/22



Arkansas R at Salida Snow to Flow Plot

63% of median flow on 7/22

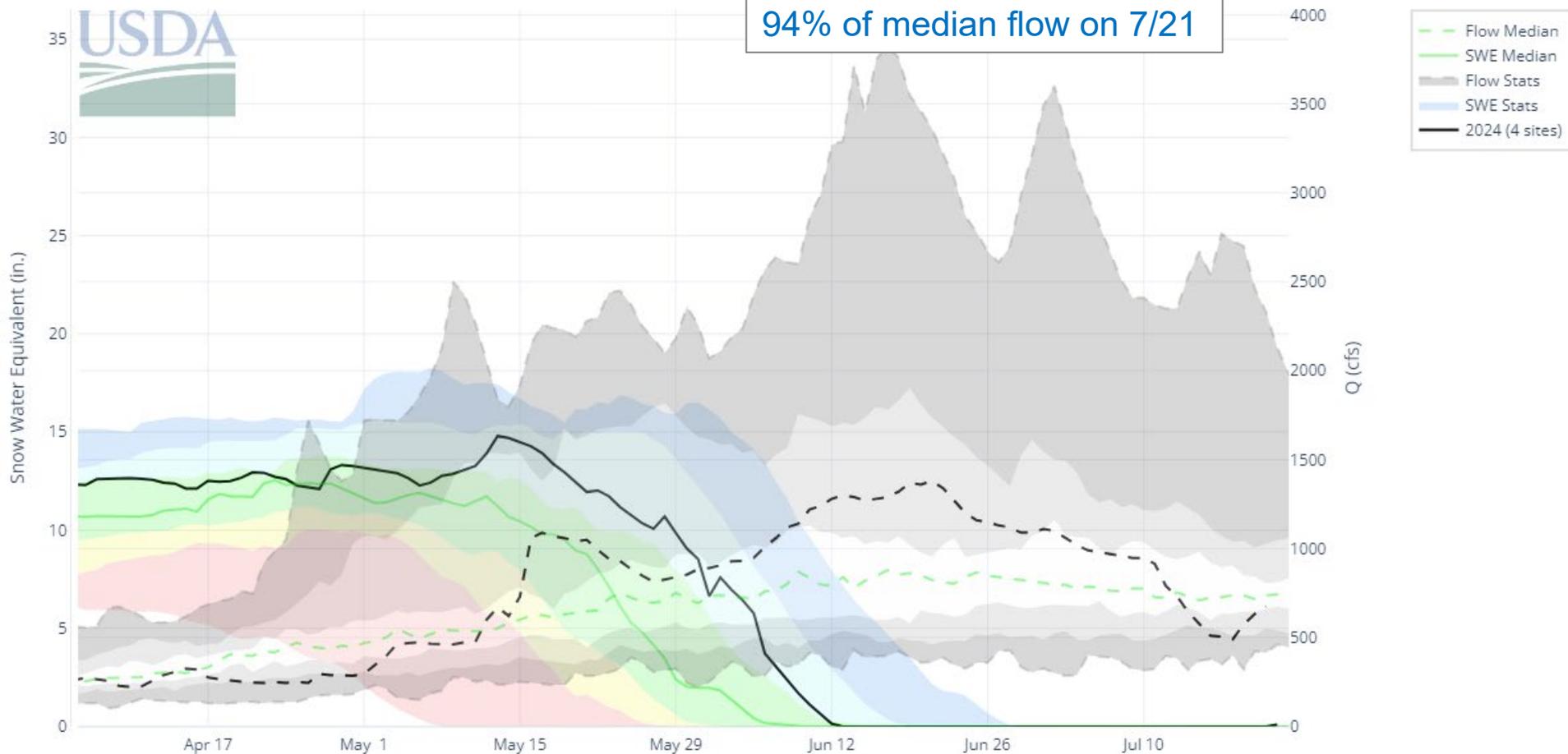




Colorado Snow Surveys

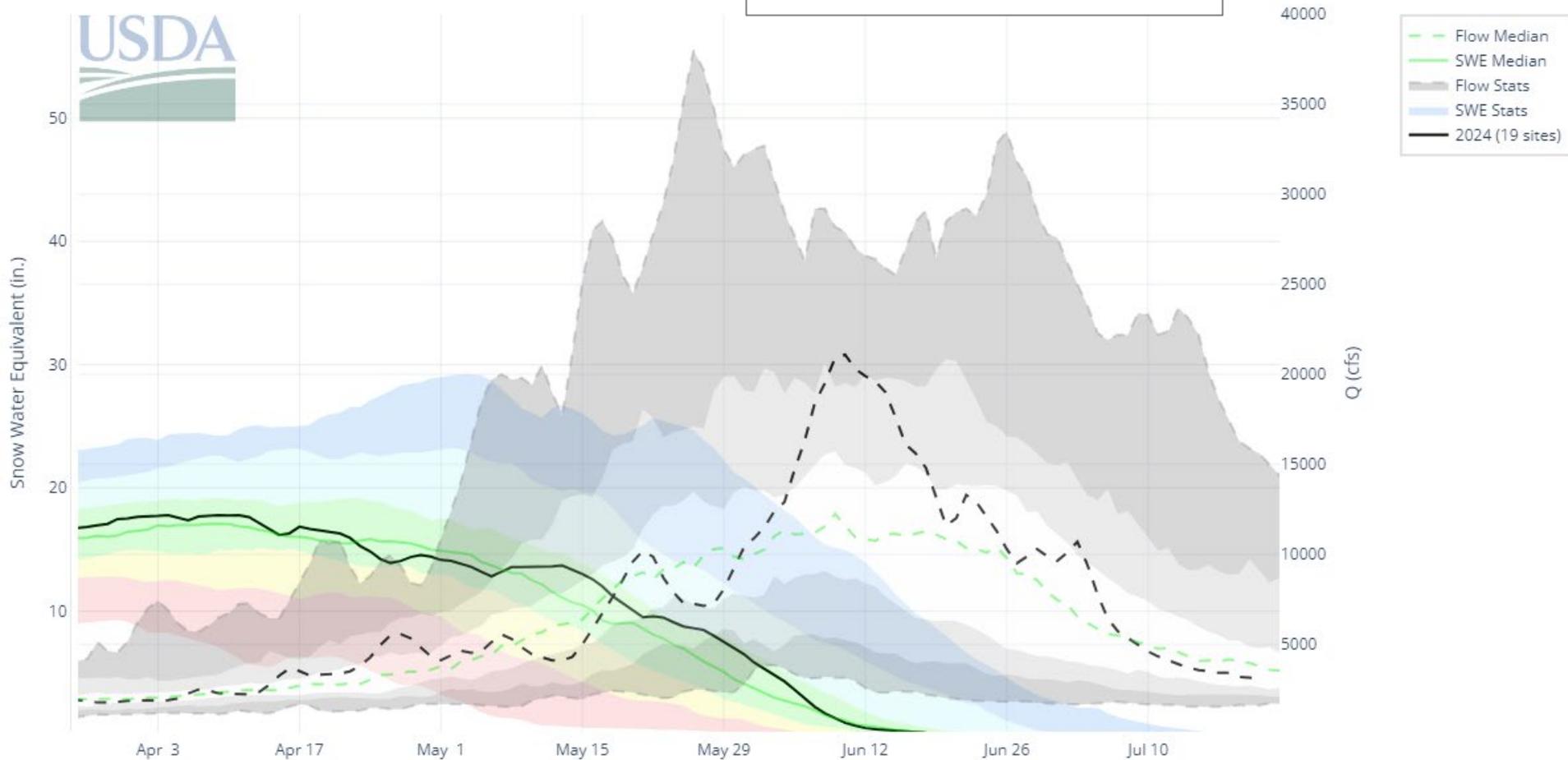
South Platte R at South Platte Snow to Flow Plot

79% of median flow on 7/22
94% of median flow on 7/21



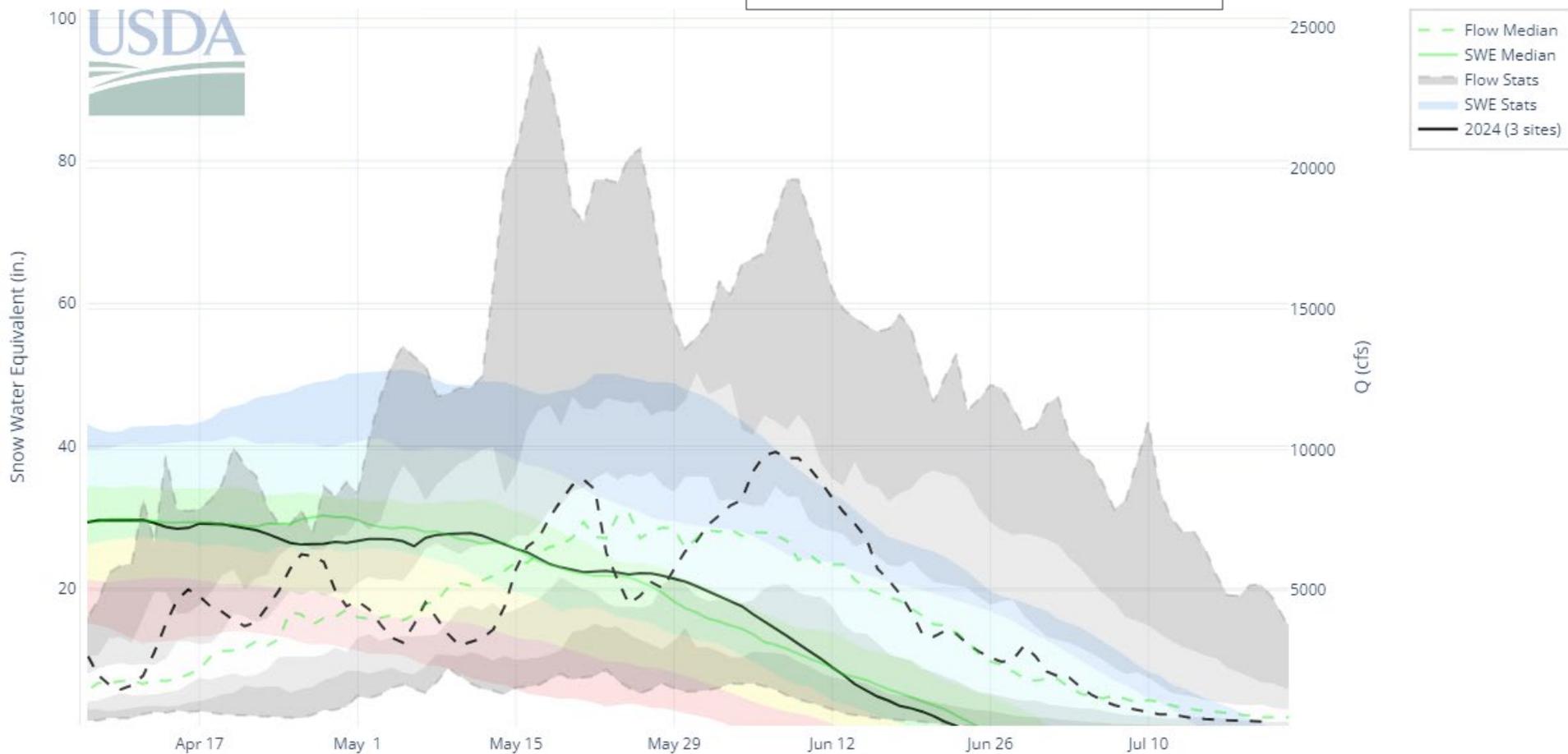
Colorado R nr Cameo Snow to Flow Plot

68% of median flow on 7/22



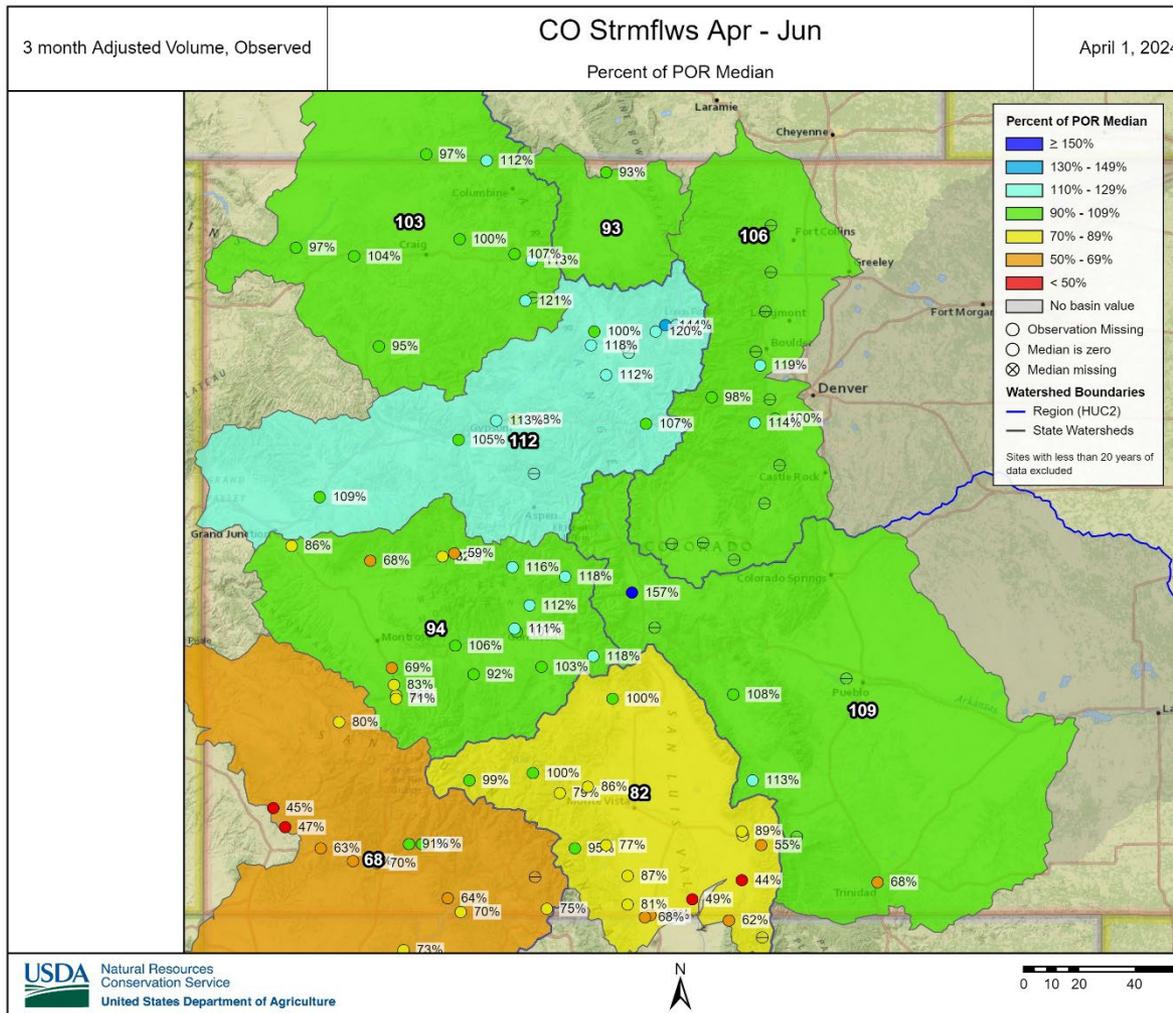
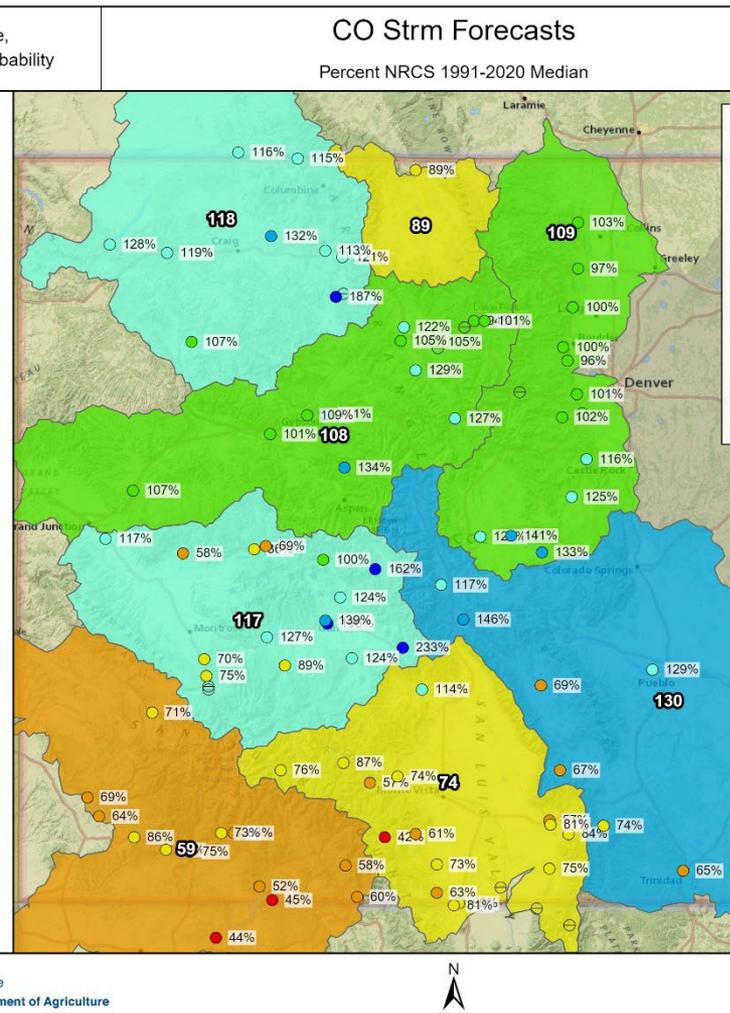
Yampa R nr Maybell Snow to Flow Plot

39% of median flow on 7/22





Apr – Jul Forecasts vs Apr – Jun Observed Streamflows





Summary

- Statewide snowpack peaked out at 98% of the median.
- Statewide Year to Date Mountain precipitation is 101% of median
- June 10 – July 2 storms have focused on SW CO mountains providing much needed rain.
- All other areas of the state have seen improvements since this time last month. But not as much rain as the San Juans Mtns.
- Soil moisture data indicates near normal conditions.
- Statewide reservoir storage is 95% of median.
- Snowmelt runoff is largely complete. In recession of snowmelt.
- Streamflows at major river gauges are near to below normal.
- NRCS Jun 1 Streamflow forecasts close to observed streamflows to this point.



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United States Department of Agriculture

Colorado Snow Surveys

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