



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

November 28th, 2023

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos

Hydrologist

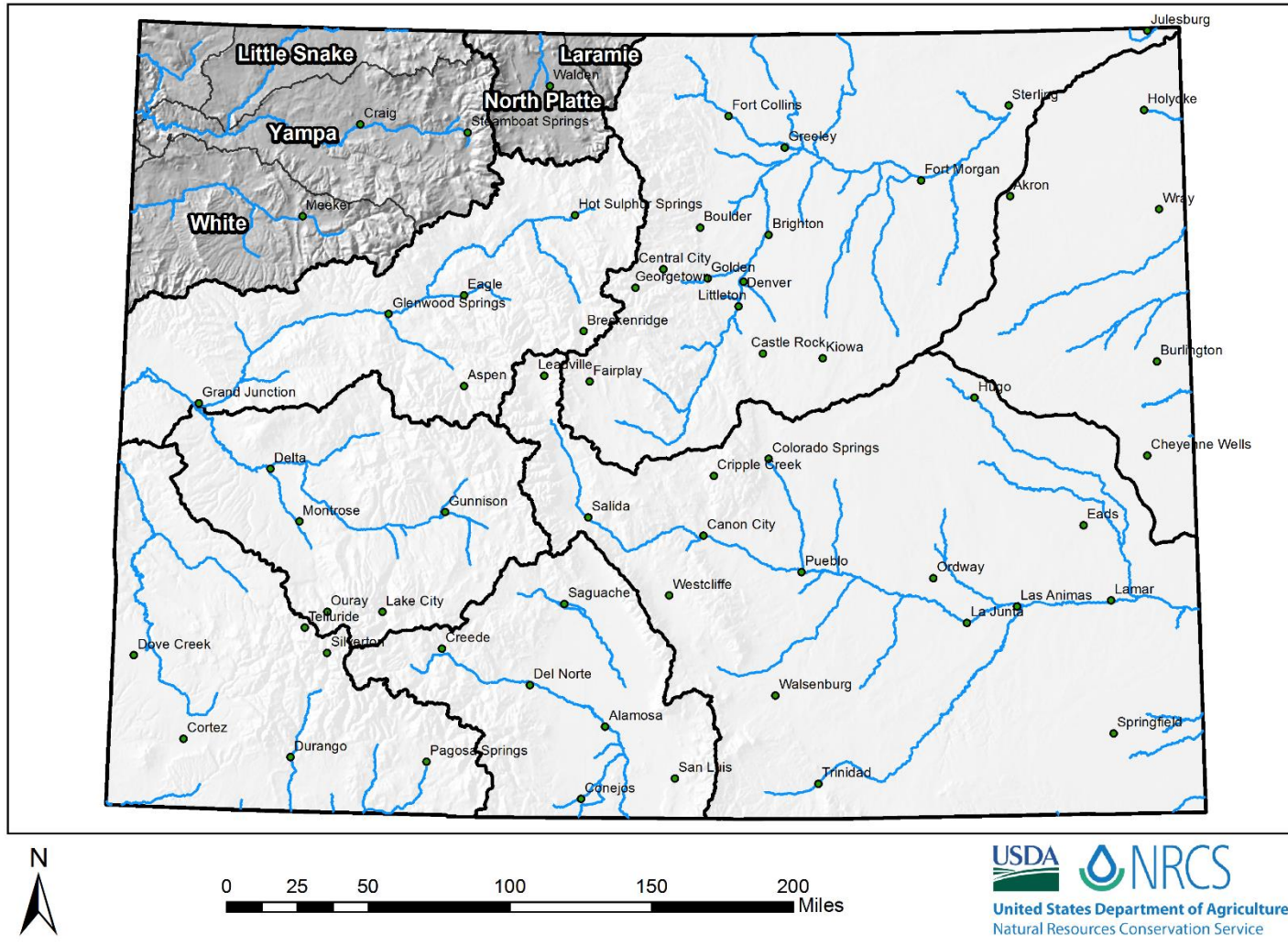
Brian.Domonkos@usda.gov

720-544-2853

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

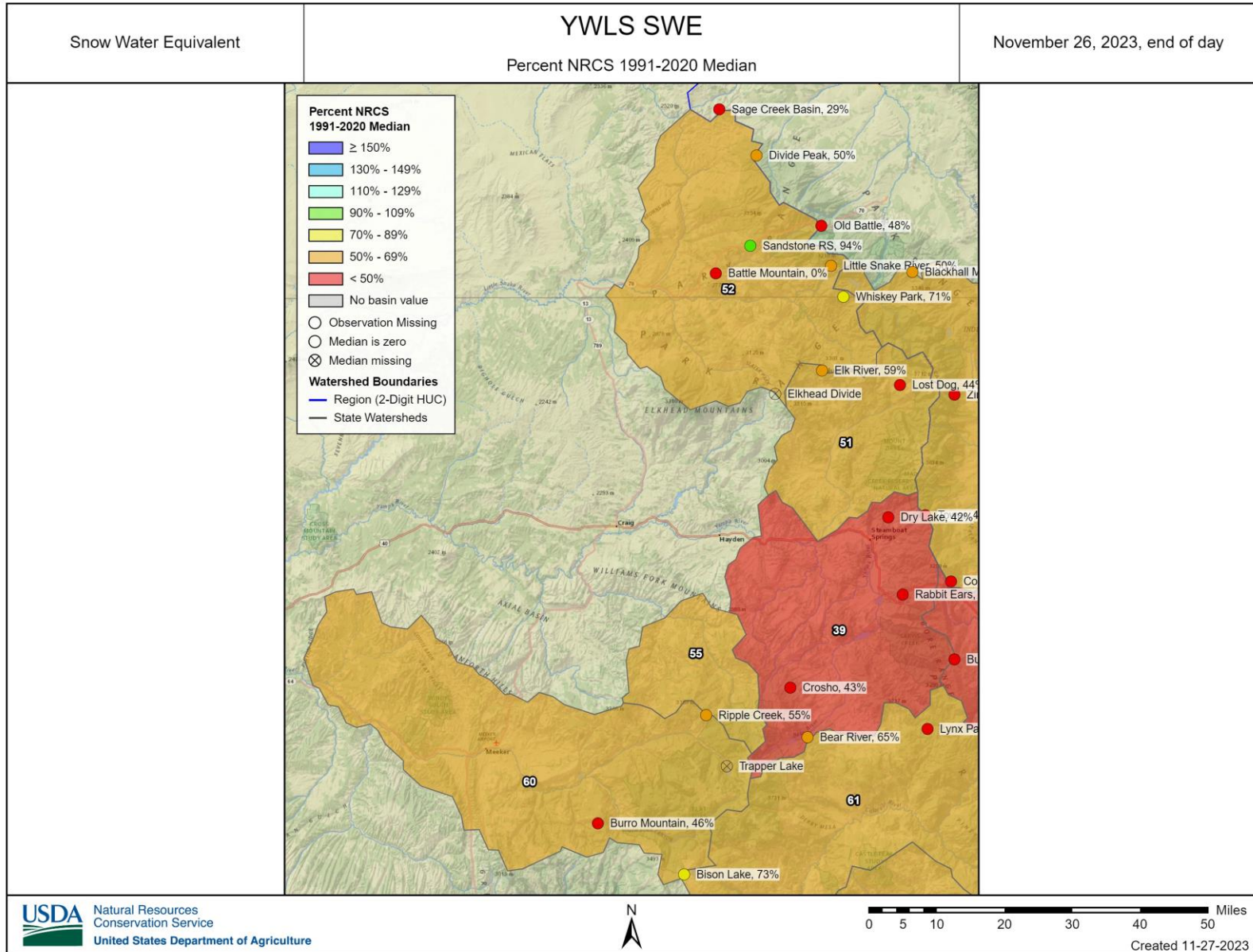
Major Basin Summary

Yampa, White, and North Platte River Basins





Colorado Snow Surveys





Colorado Snow Surveys

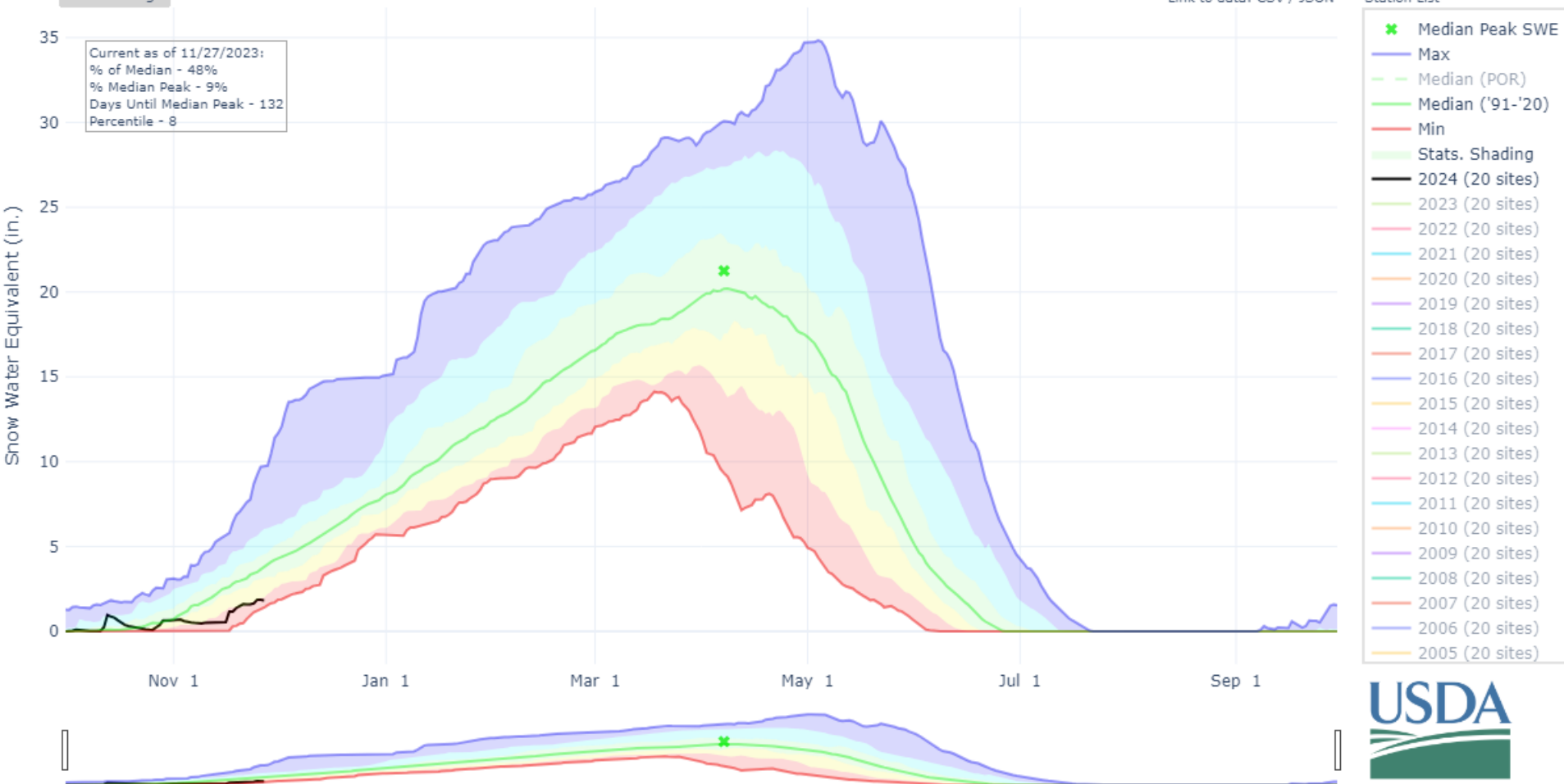
SNOW WATER EQUIVALENT IN YAMPA-WHITE-LITTLE SNAKE

Reset Range

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

Station List

Current as of 11/27/2023:
% of Median - 48%
% Median Peak - 9%
Days Until Median Peak - 132
Percentile - 8





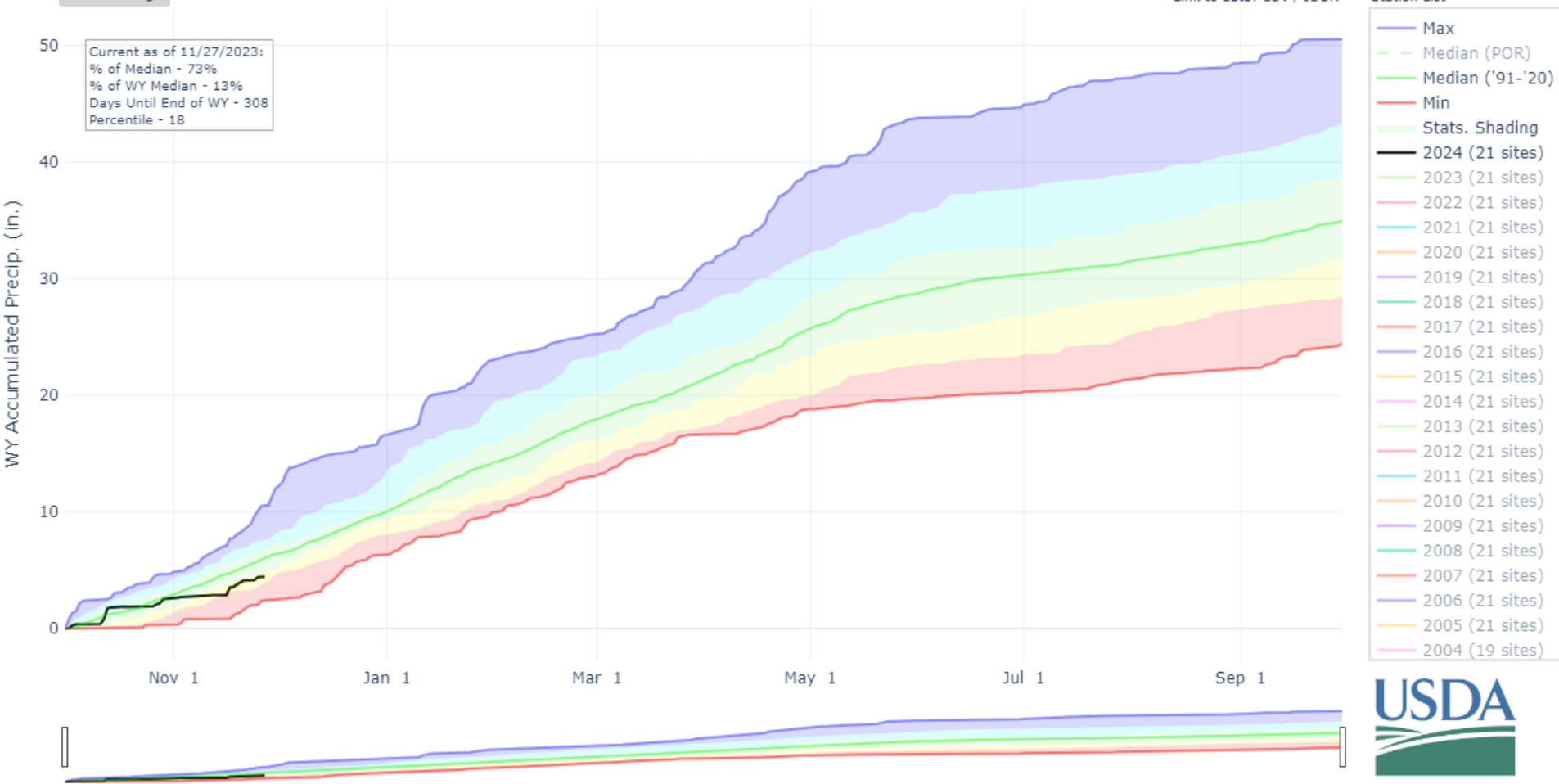
Colorado Snow Surveys

PRECIPITATION IN YAMPA-WHITE-LITTLE SNAKE

Reset Range

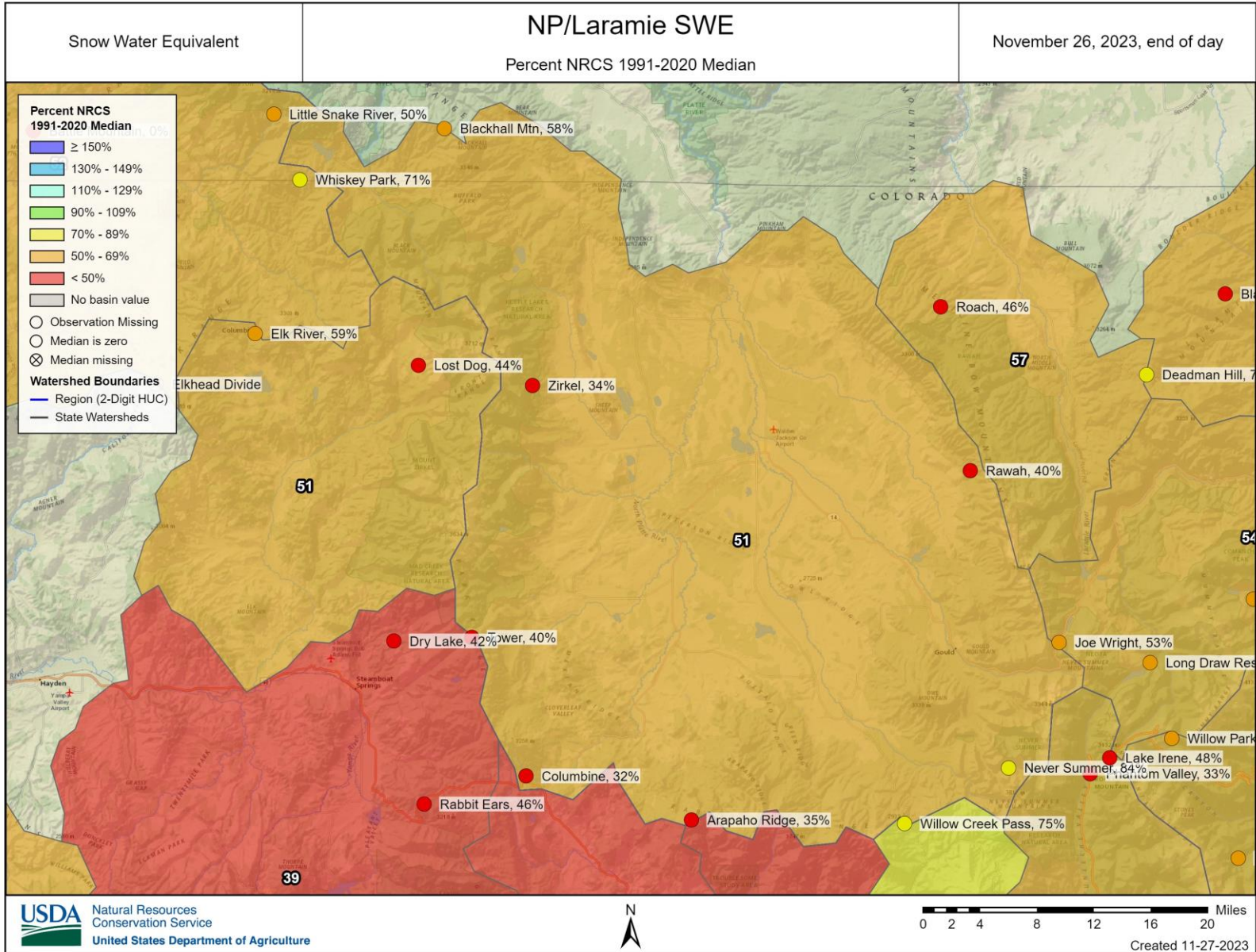
[Link to data: CSV / JSON](#)

Station List





Colorado Snow Surveys





Colorado Snow Surveys

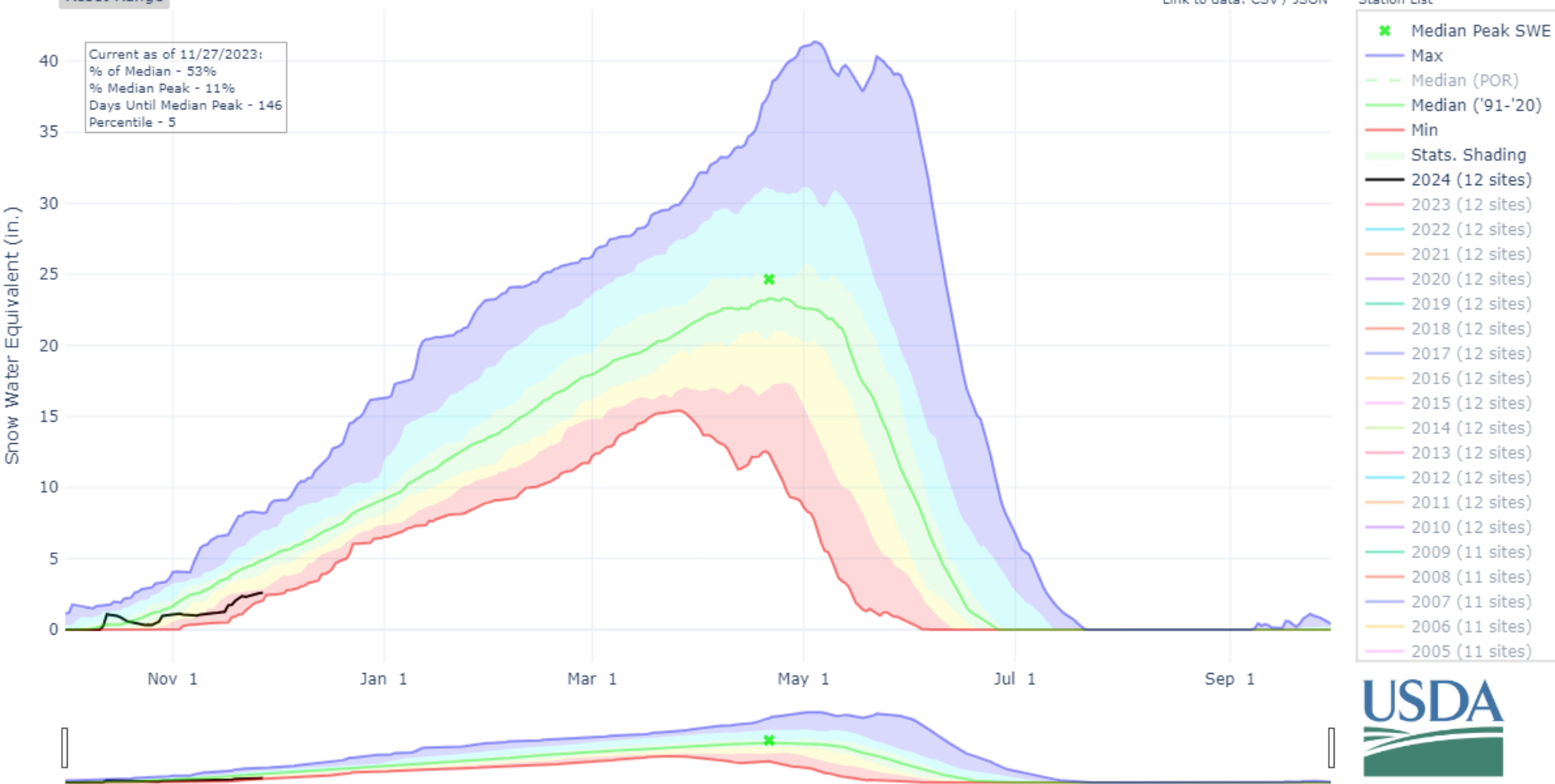
SNOW WATER EQUIVALENT IN LARAMIE AND NORTH PLATTE

Reset Range

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

Station List

Current as of 11/27/2023:
% of Median - 53%
% Median Peak - 11%
Days Until Median Peak - 146
Percentile - 5





Colorado Snow Surveys

PRECIPITATION IN LARAMIE AND NORTH PLATTE

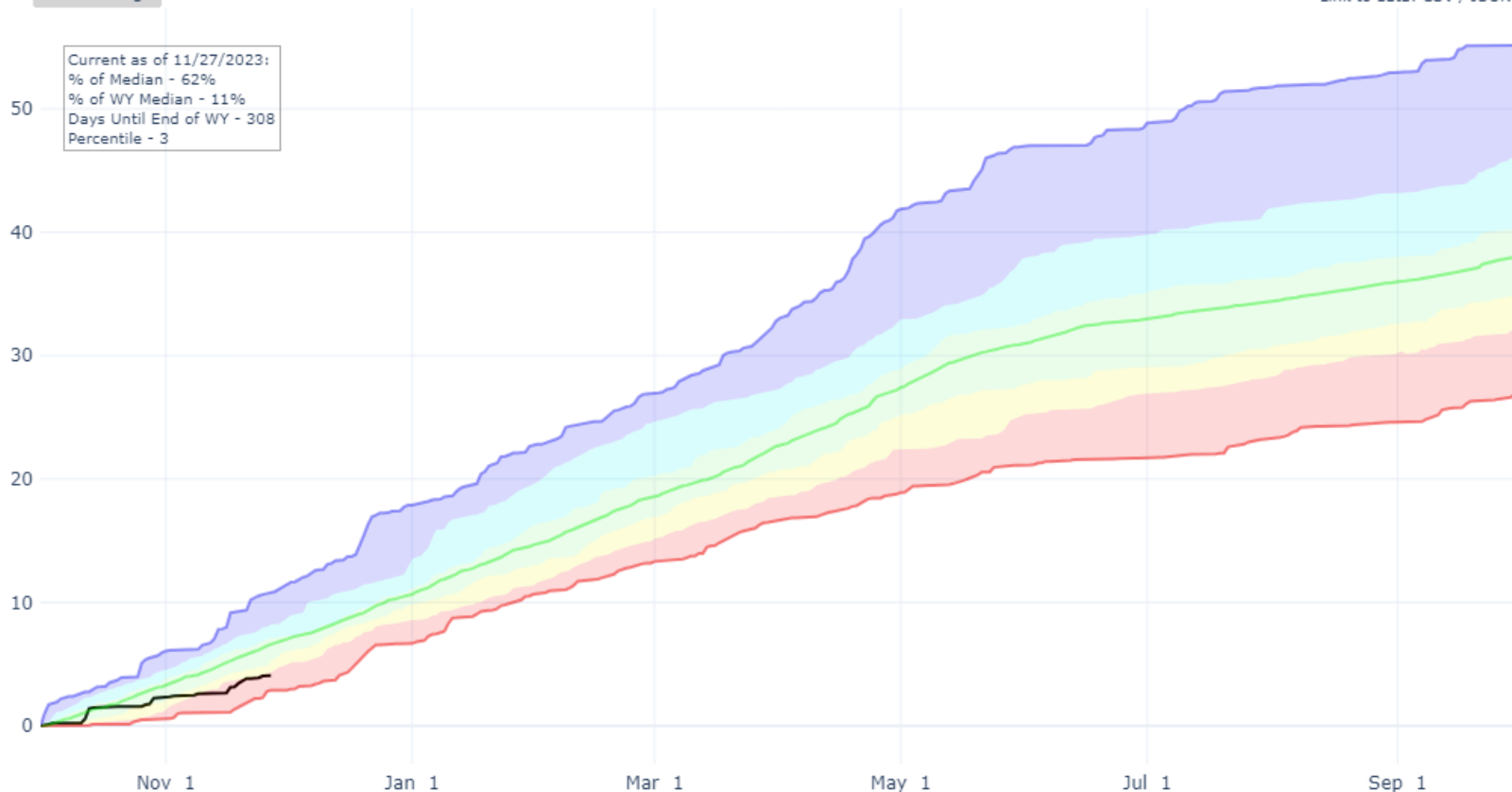
Reset Range

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

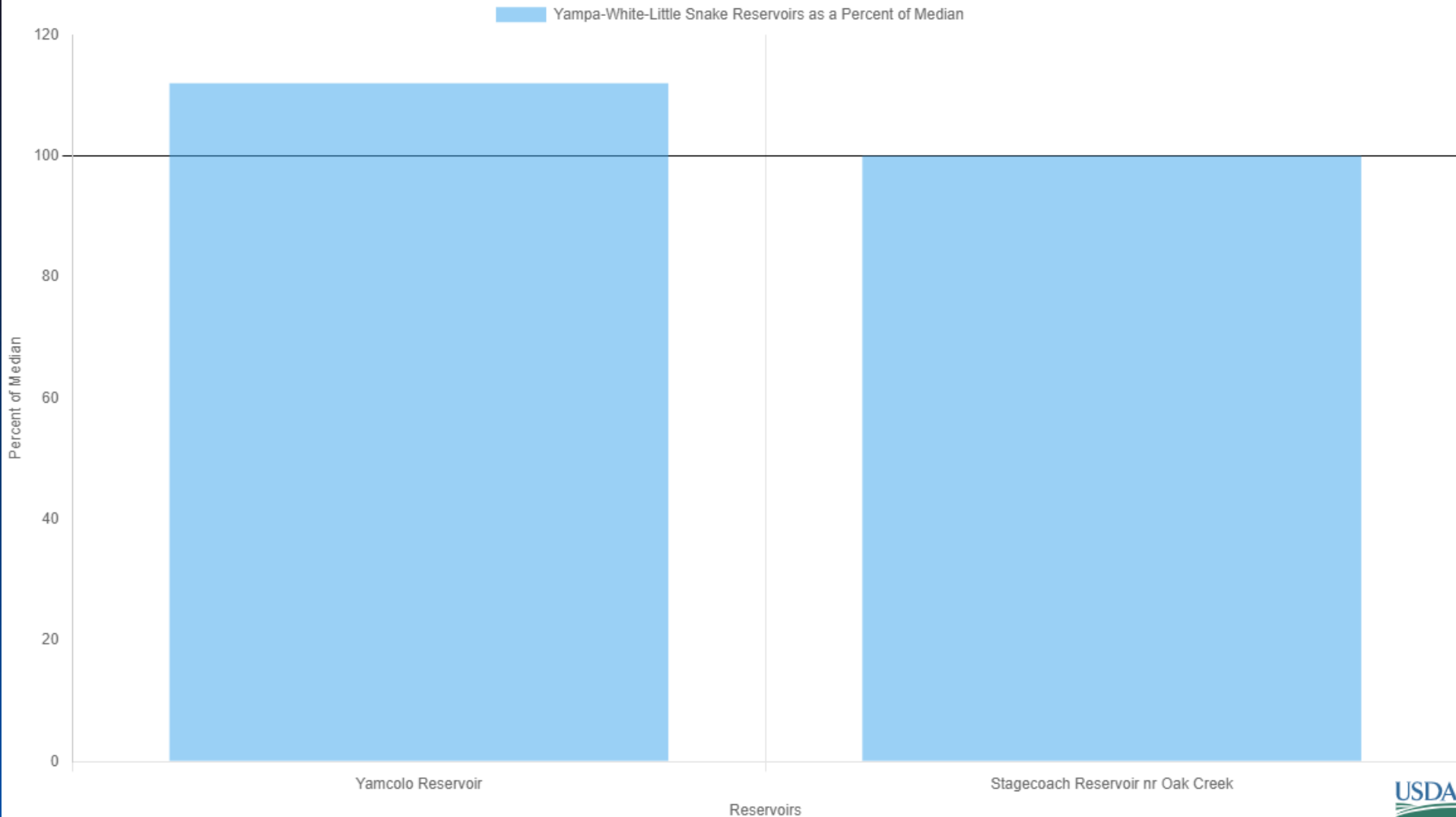
Station List

Current as of 11/27/2023:
% of Median - 62%
% of WY Median - 11%
Days Until End of WY - 308
Percentile - 3

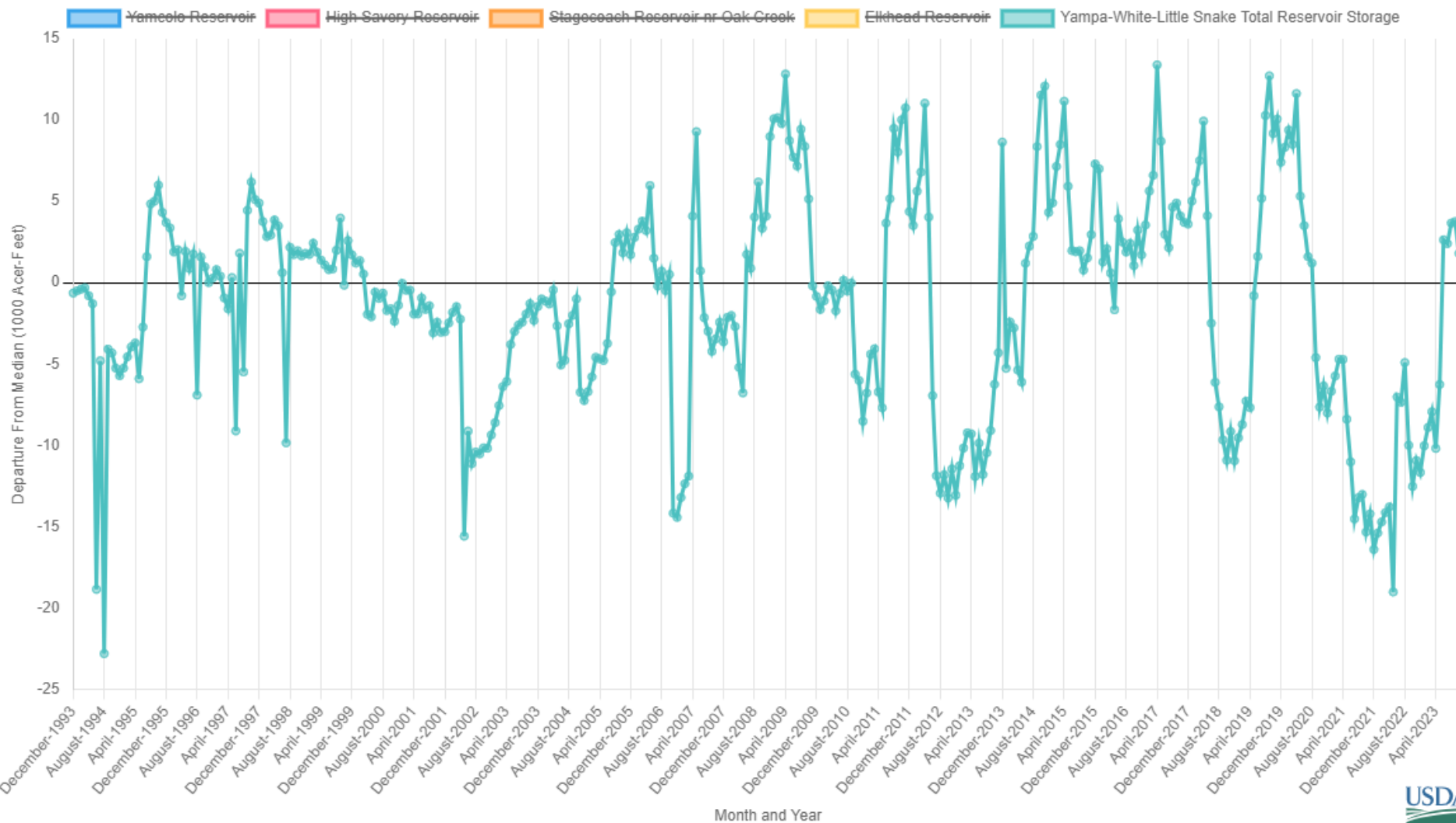
WY Accumulated Precip. (in.)

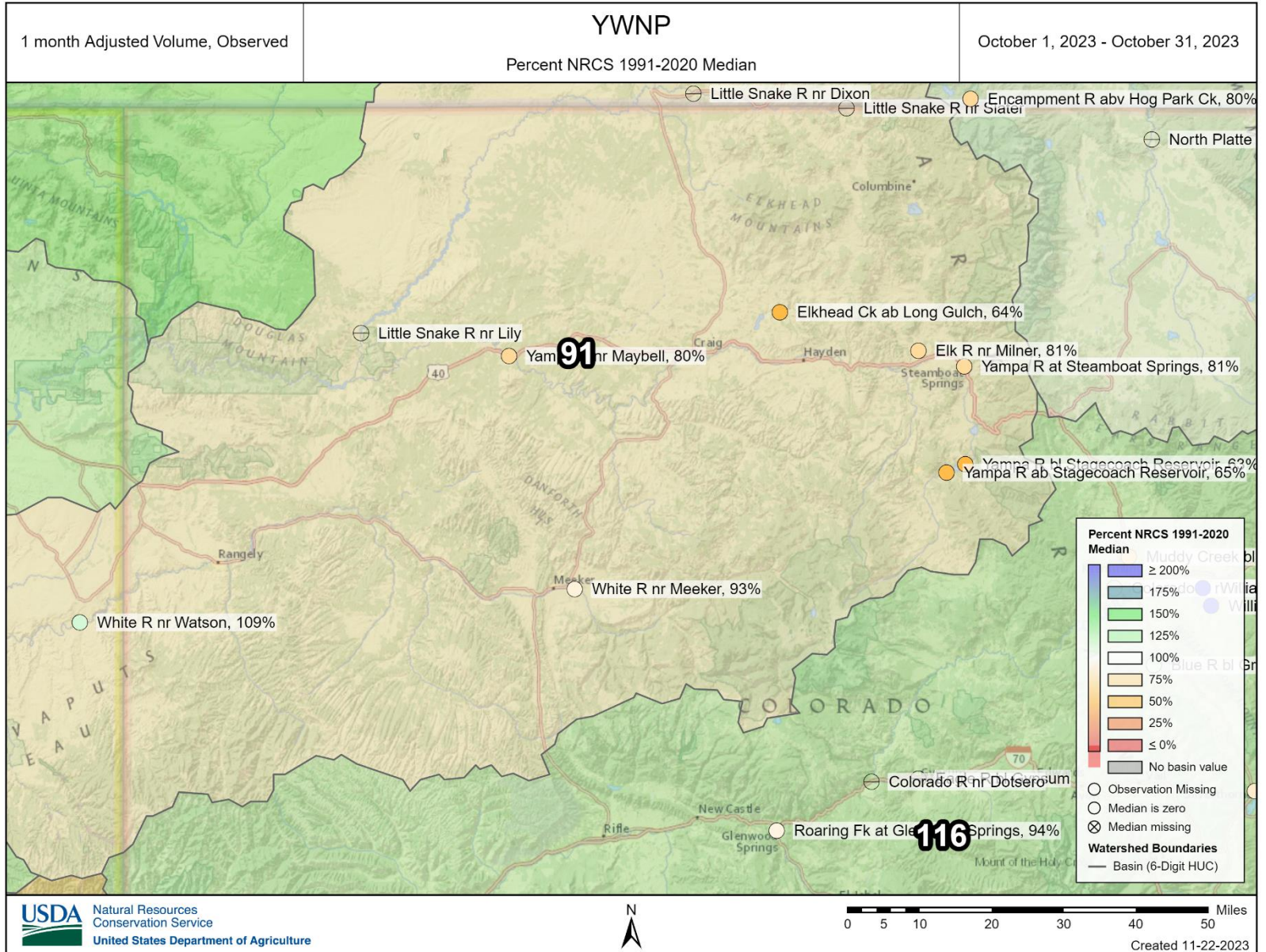


Yampa-White-Little Snake Reservoir Storage Summary for November 1st 2023

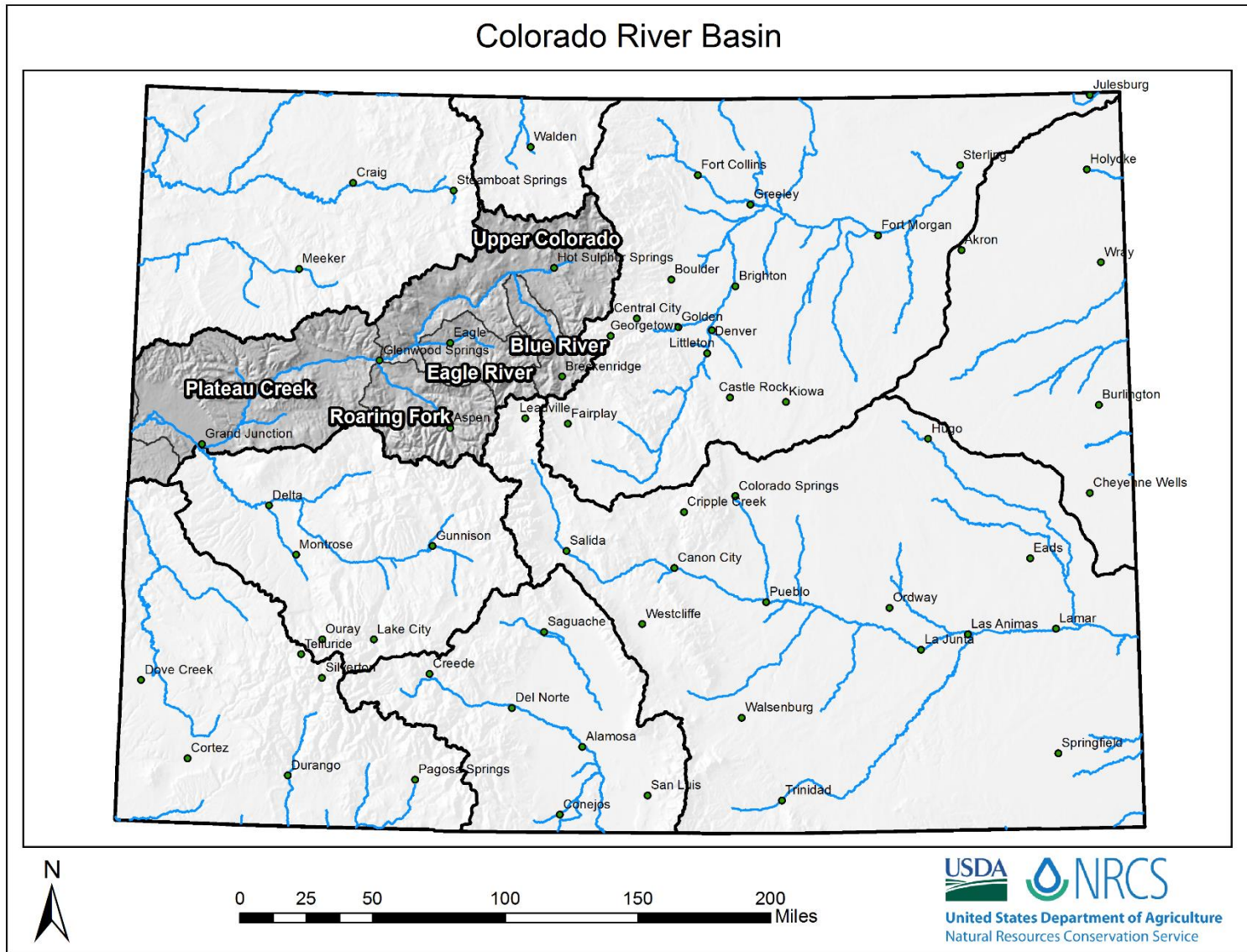


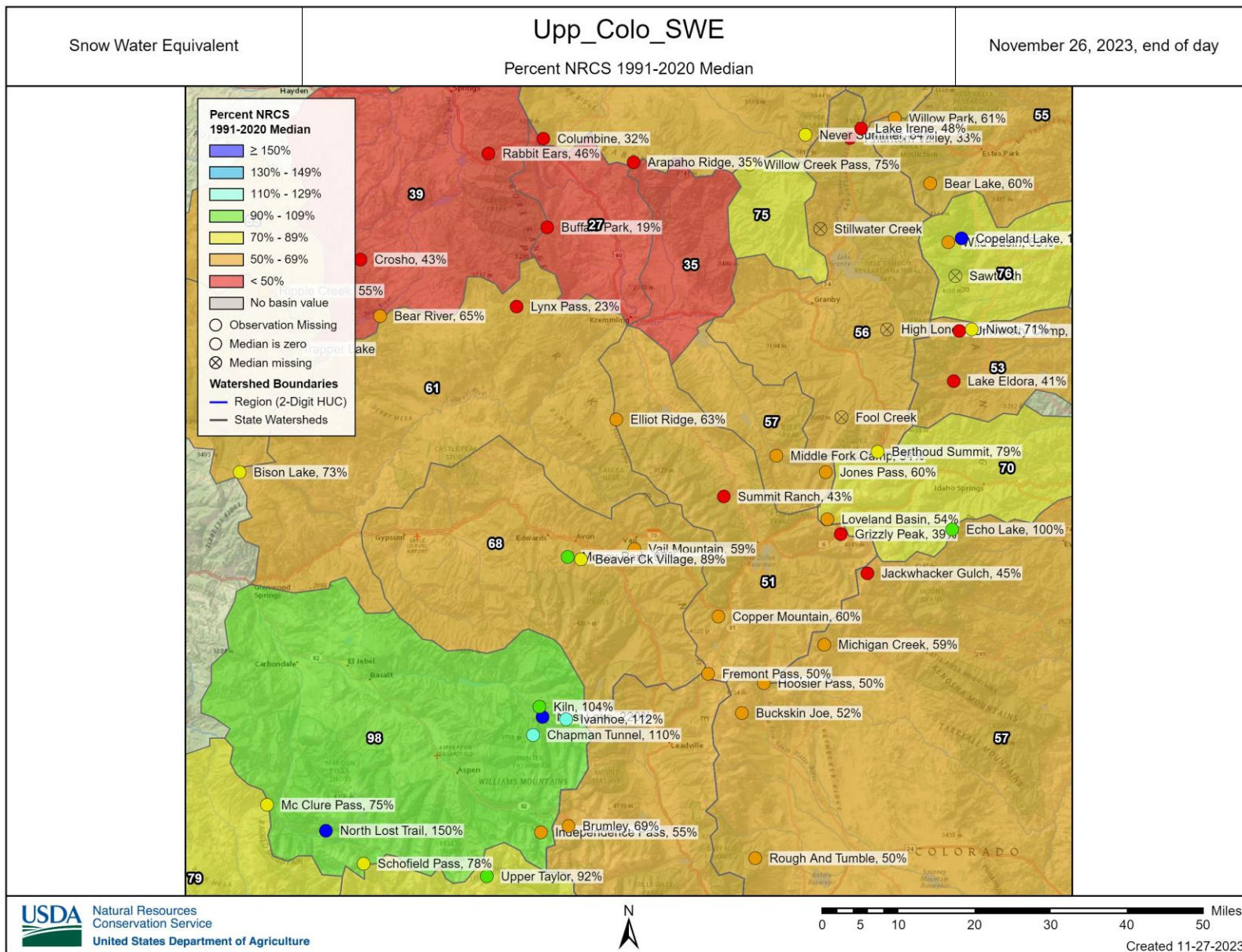
Yampa-White-Little Snake Departure From Median Timeseries Plot





Major Basin Summary







Colorado Snow Surveys

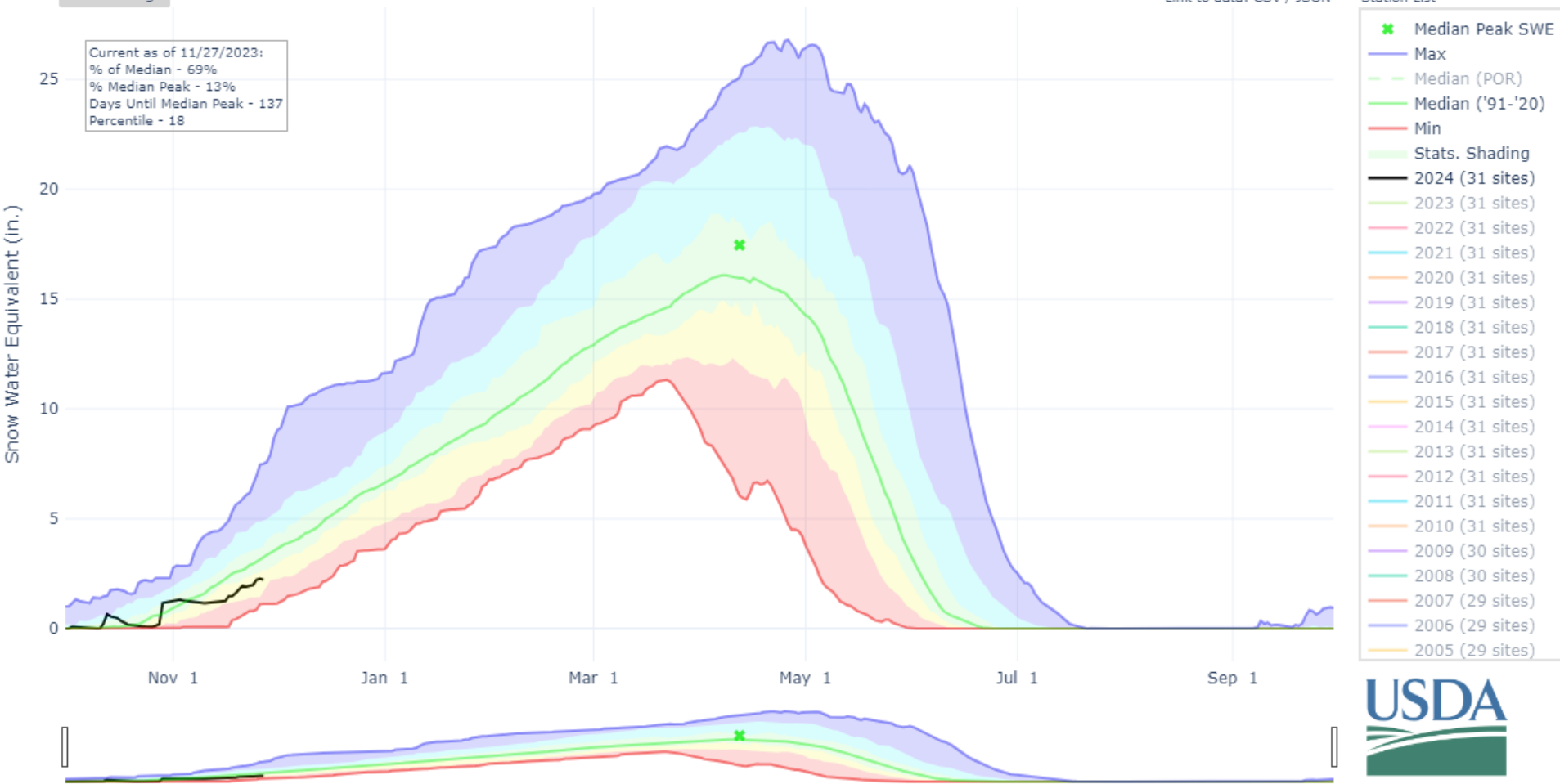
SNOW WATER EQUIVALENT IN COLORADO HEADWATERS

Reset Range

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

Station List

Current as of 11/27/2023:
% of Median - 69%
% Median Peak - 13%
Days Until Median Peak - 137
Percentile - 18





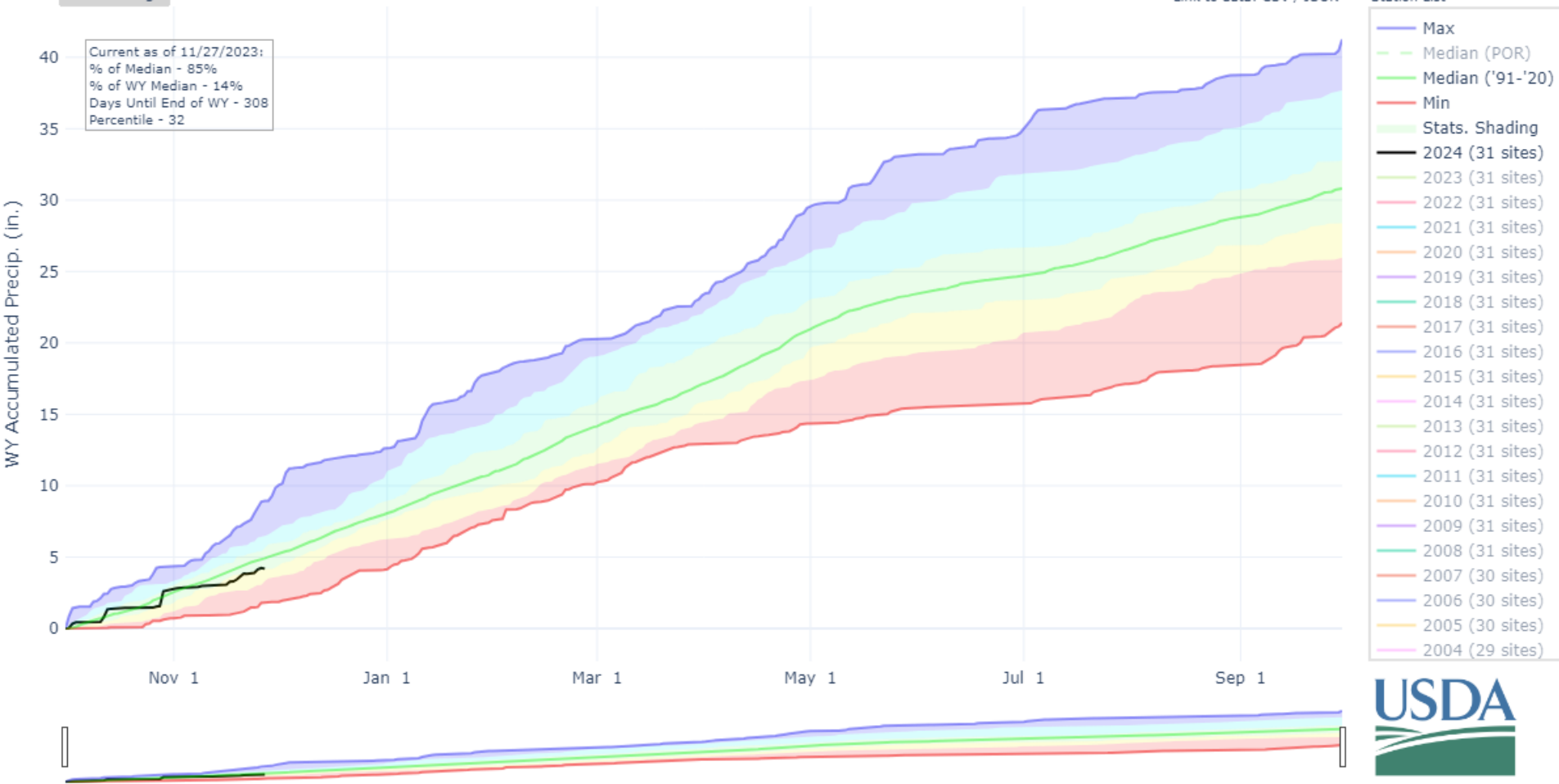
Colorado Snow Surveys

PRECIPITATION IN COLORADO HEADWATERS

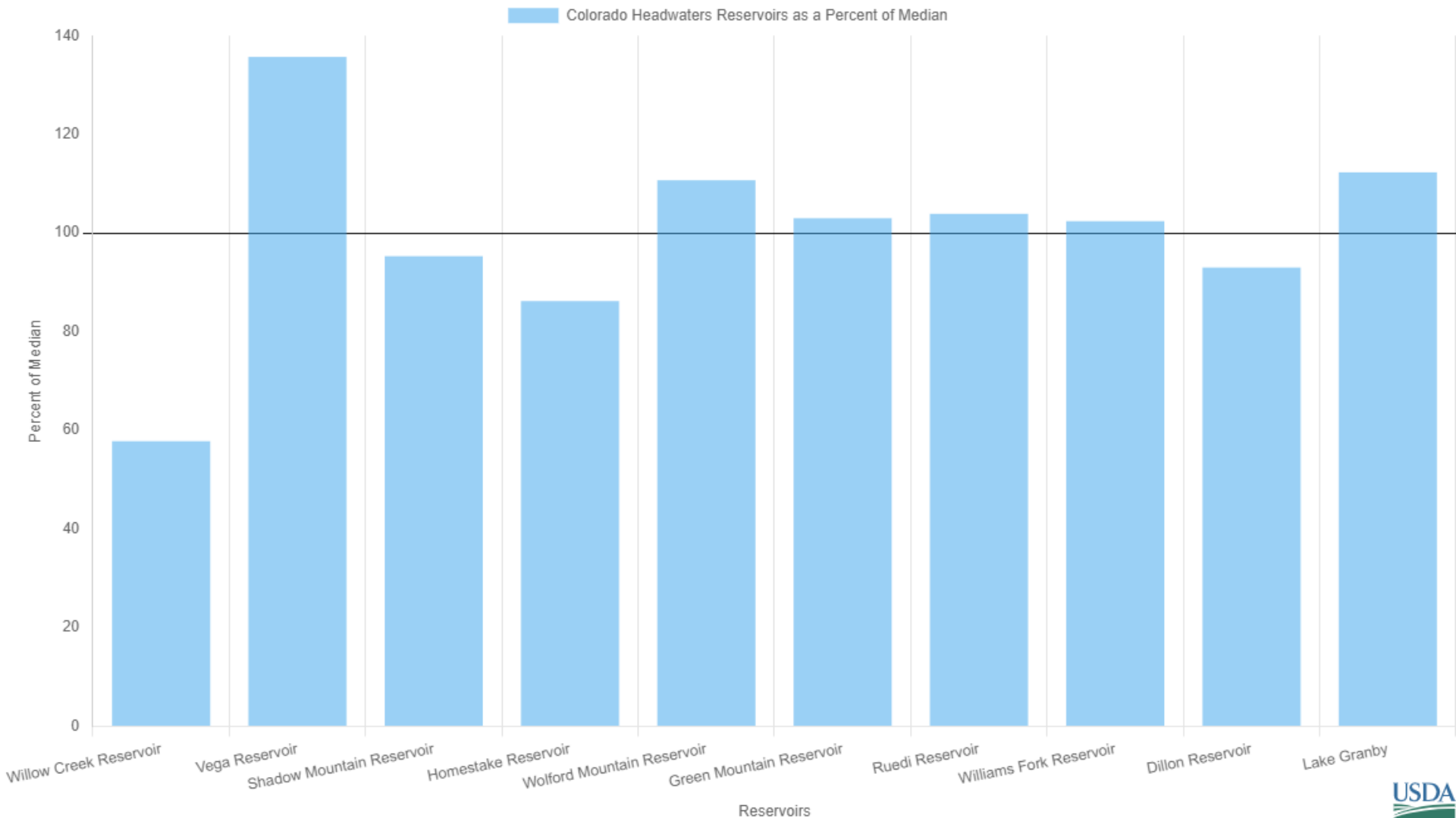
Reset Range

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

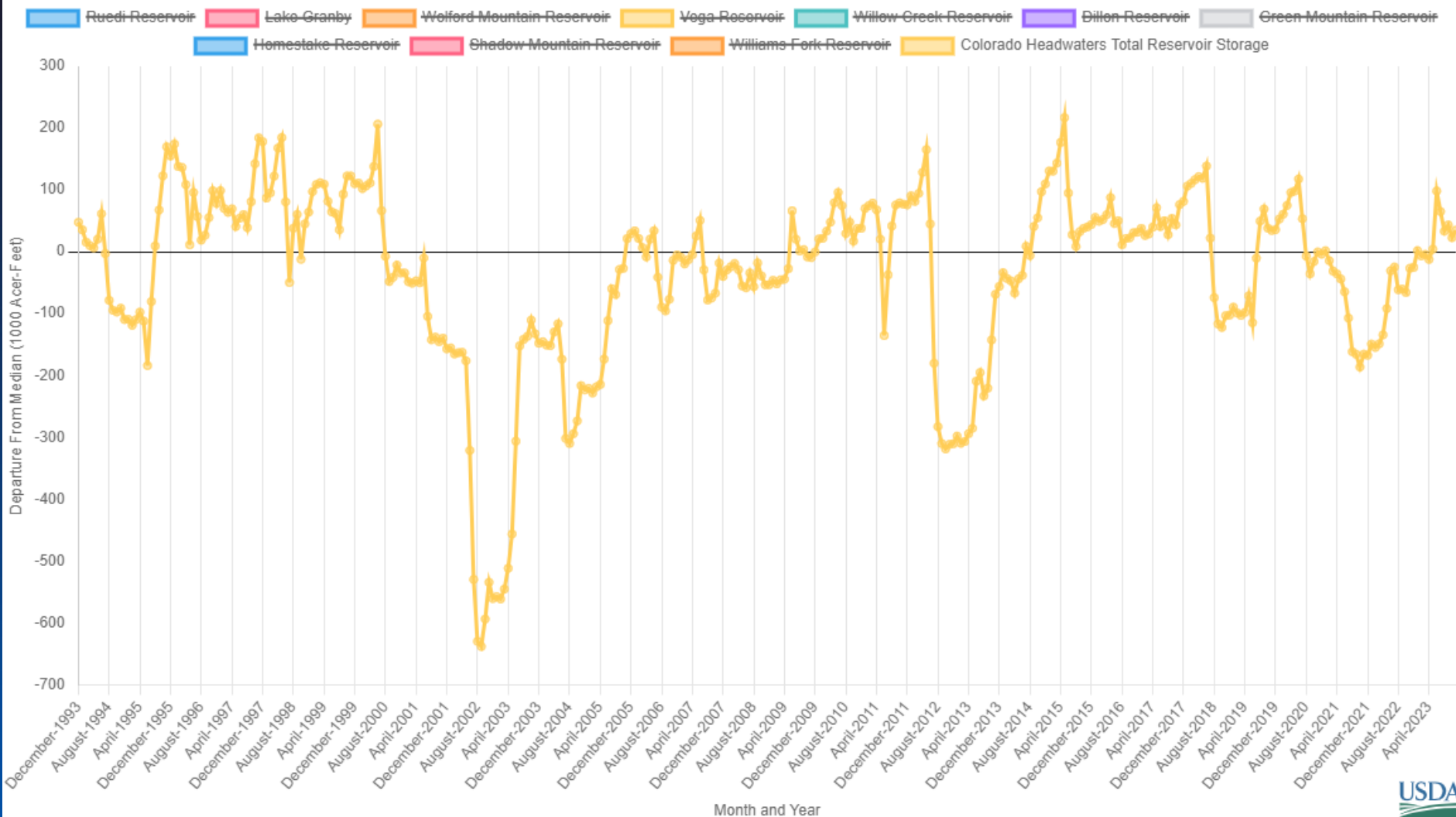
Station List

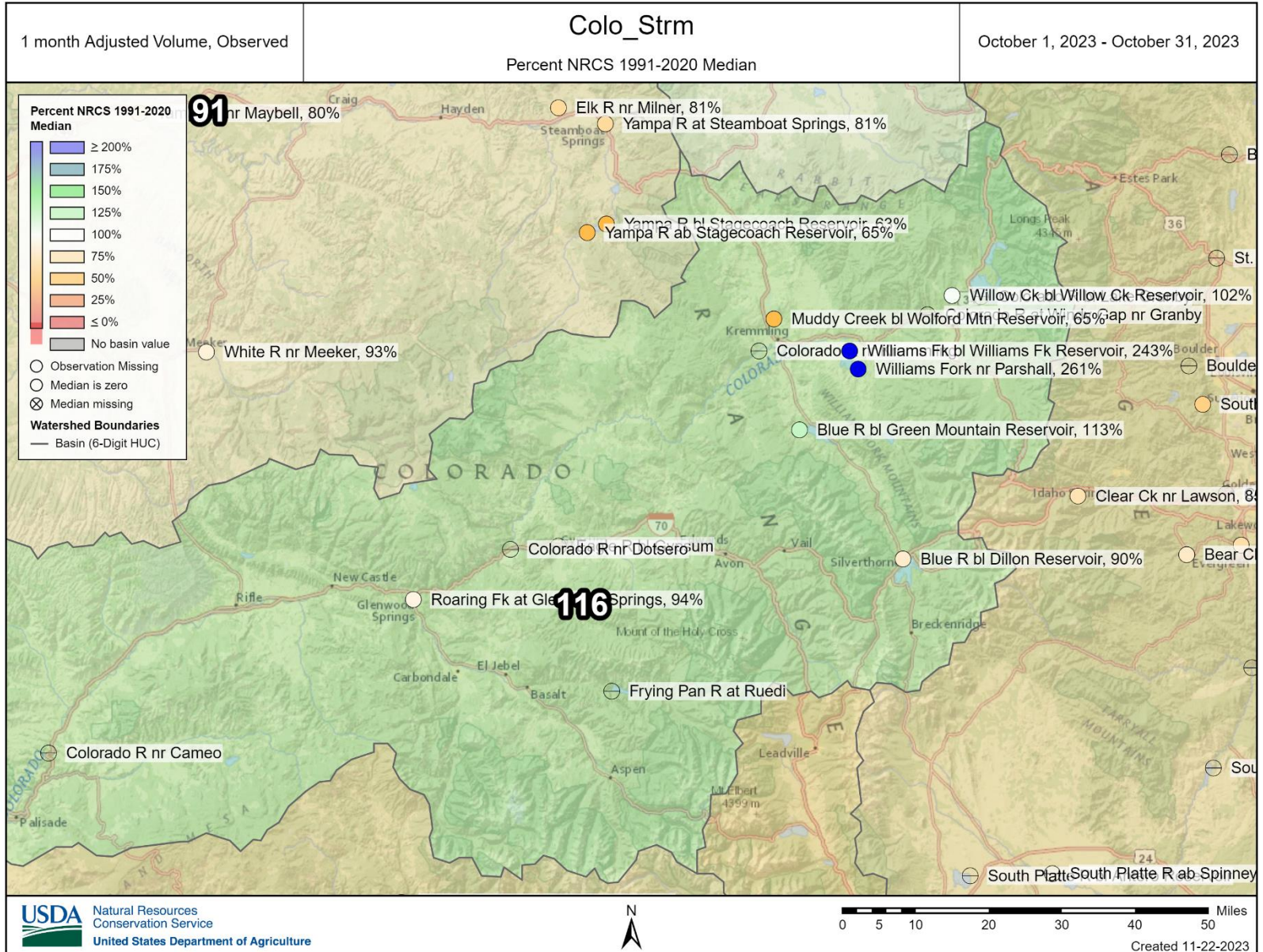


Colorado Headwaters Reservoir Storage Summary for November 1st 2023



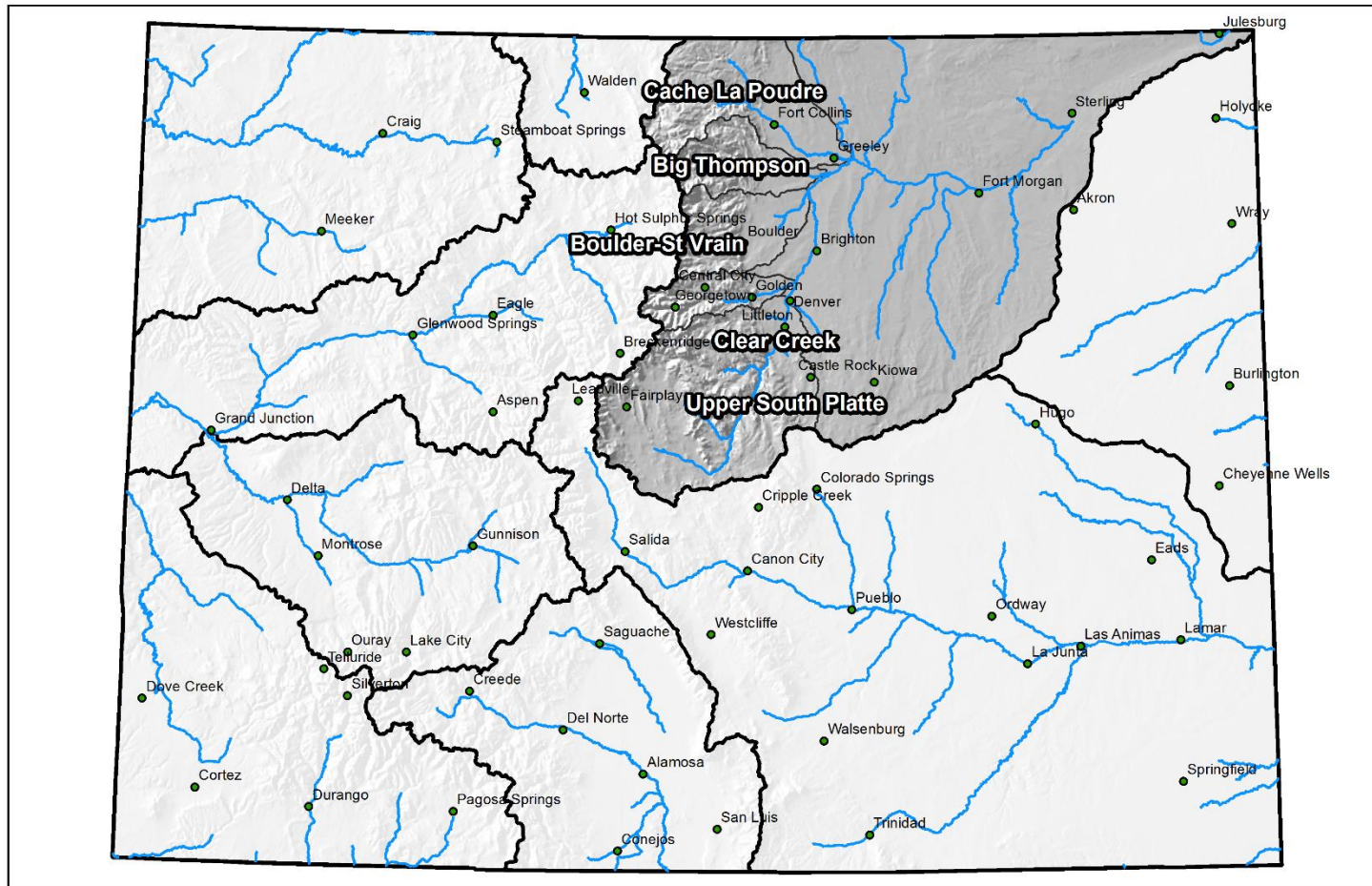
Colorado Headwaters Departure From Median Timeseries Plot





Major Basin Summary

South Platte River Basin



0 25 50 100 150 200 Miles

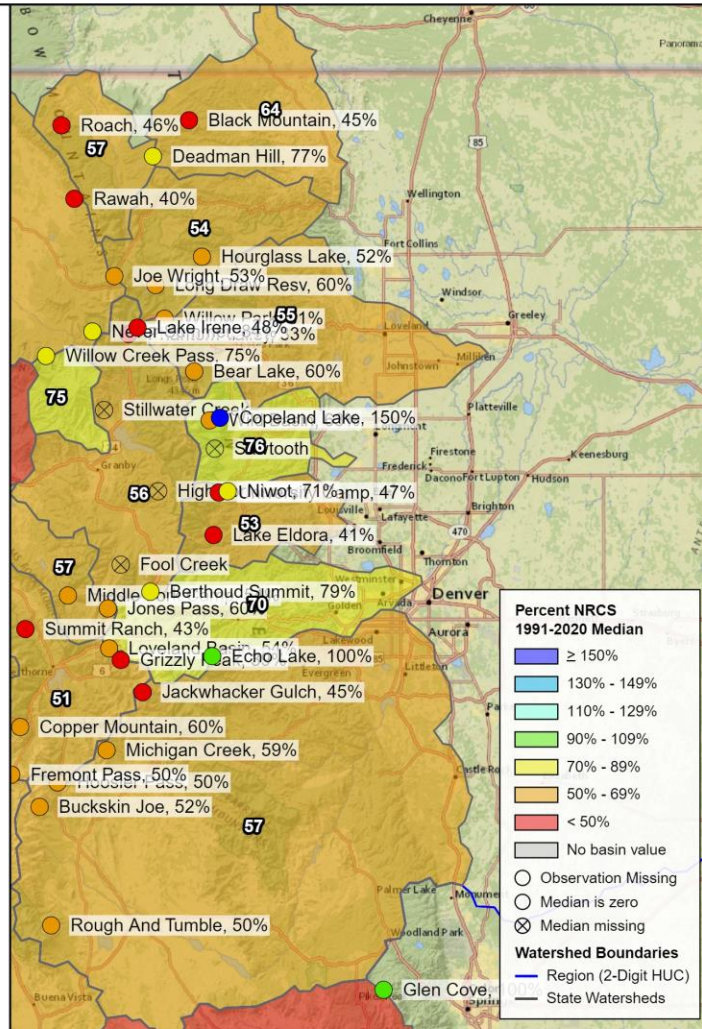


Snow Water Equivalent

SP_SWE

November 26, 2023, end of day

Percent NRCS 1991-2020 Median





Colorado Snow Surveys

SNOW WATER EQUIVALENT IN SOUTH PLATTE

Reset Range

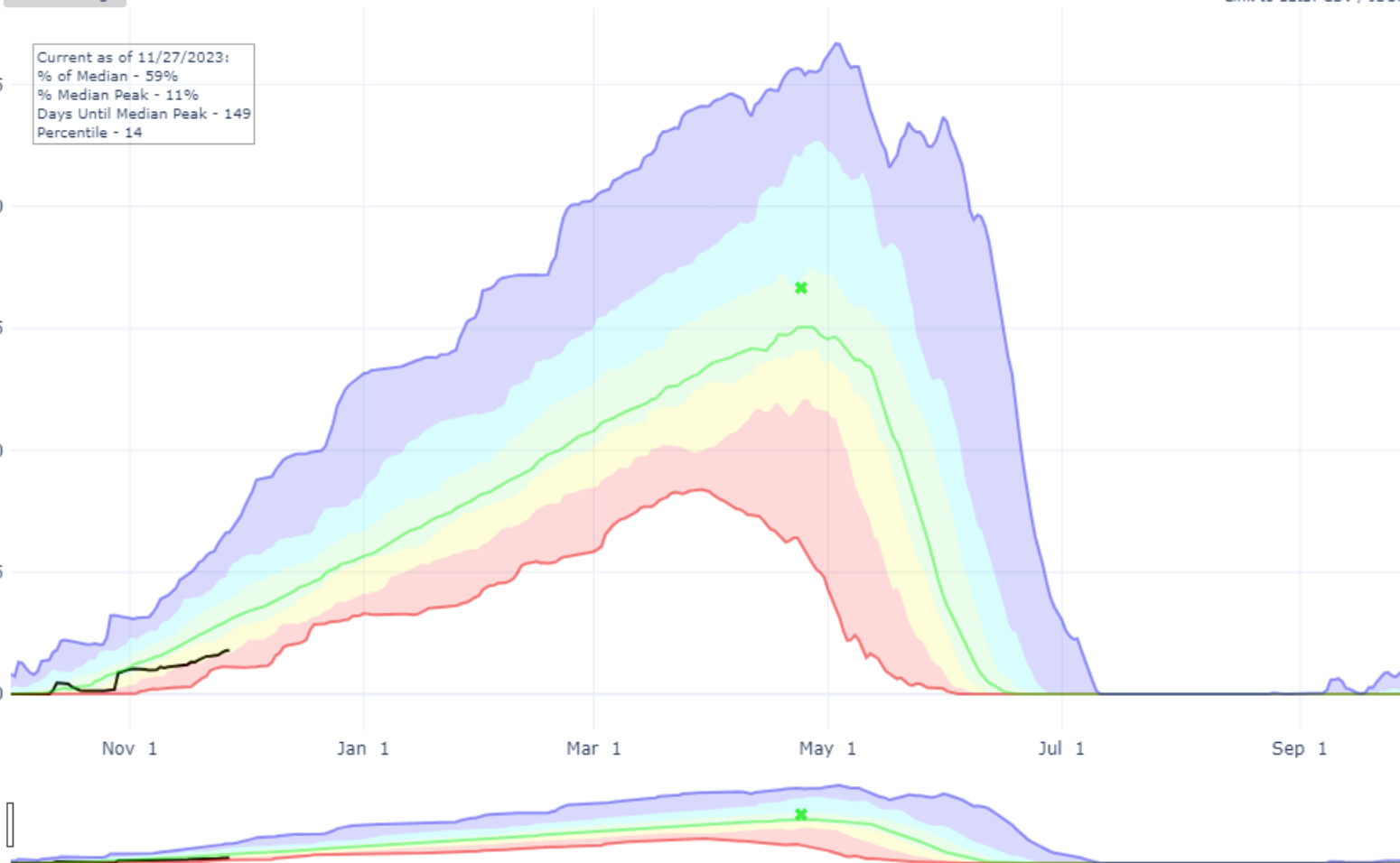
[Link to data: CSV / JSON](#)

Station List

Current as of 11/27/2023:
% of Median - 59%
% Median Peak - 11%
Days Until Median Peak - 149
Percentile - 14

Snow Water Equivalent (in.)

- ✱ Median Peak SWE
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (21 sites)
- 2023 (21 sites)
- 2022 (21 sites)
- 2021 (21 sites)
- 2020 (21 sites)
- 2019 (21 sites)
- 2018 (21 sites)
- 2017 (21 sites)
- 2016 (21 sites)
- 2015 (21 sites)
- 2014 (21 sites)
- 2013 (21 sites)
- 2012 (21 sites)
- 2011 (21 sites)
- 2010 (20 sites)
- 2009 (19 sites)
- 2008 (18 sites)
- 2007 (18 sites)
- 2006 (18 sites)
- 2005 (17 sites)





Colorado Snow Surveys

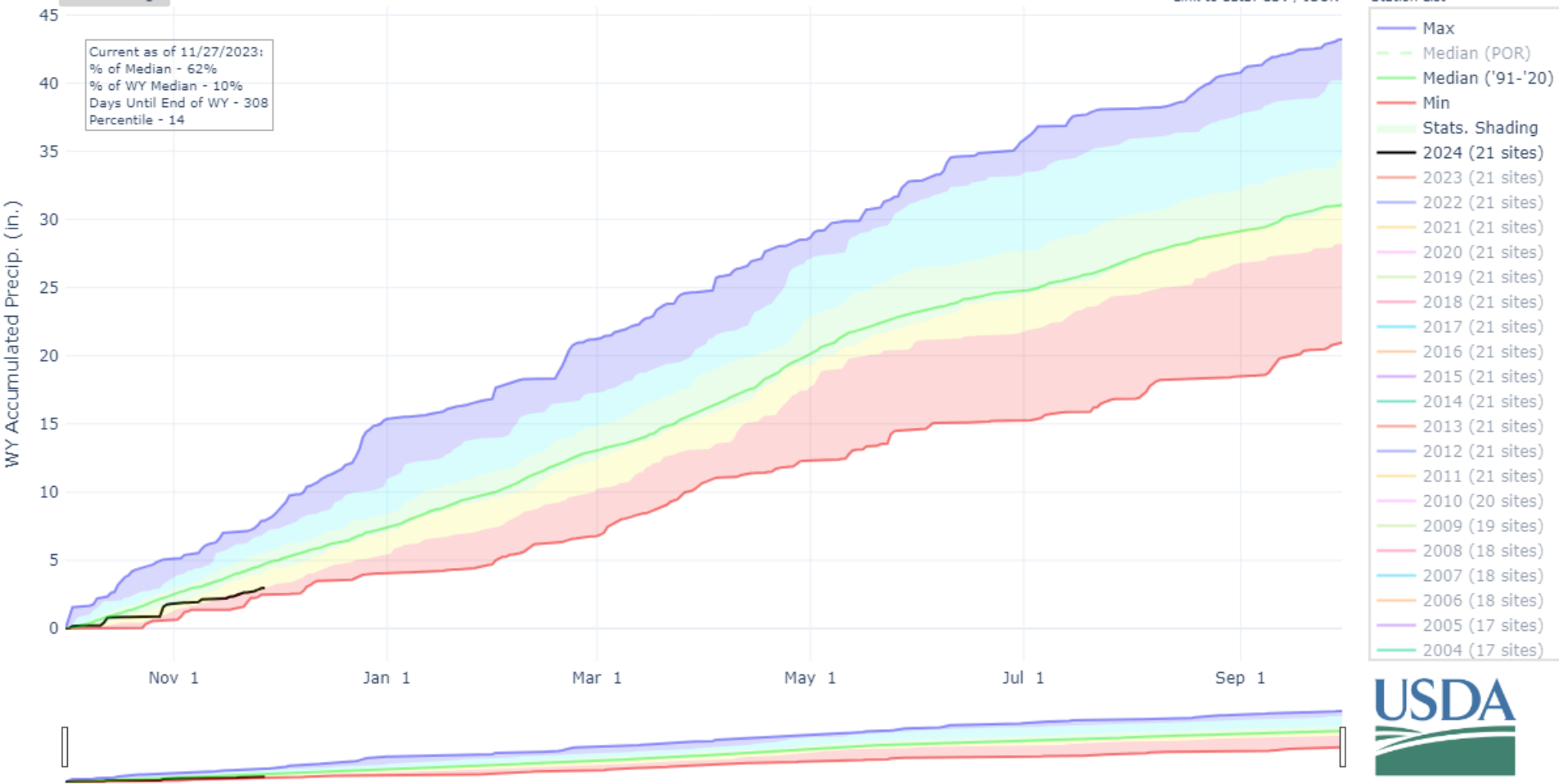
PRECIPITATION IN SOUTH PLATTE

Reset Range

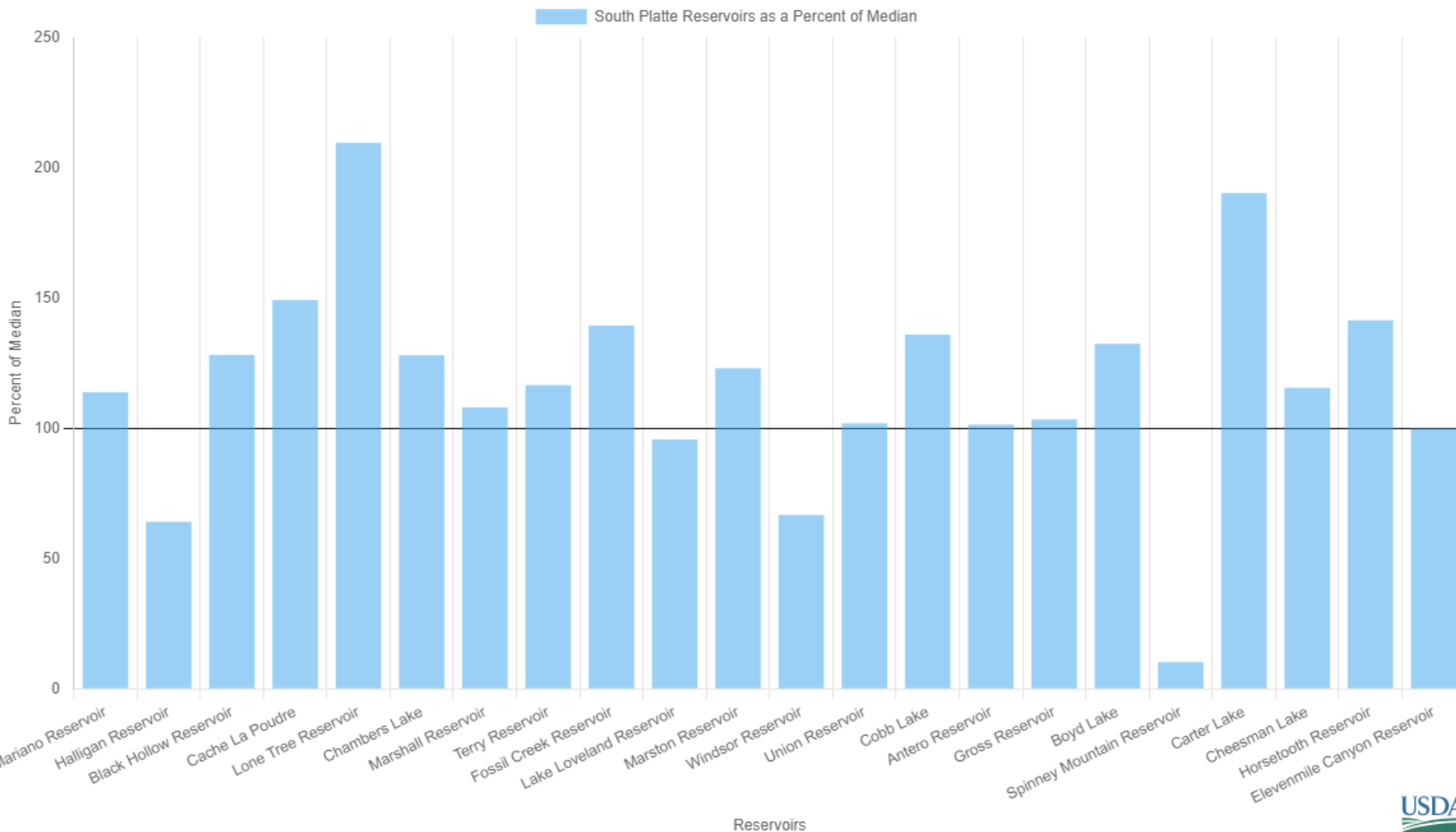
[Link to data: CSV / JSON](#)

Station List

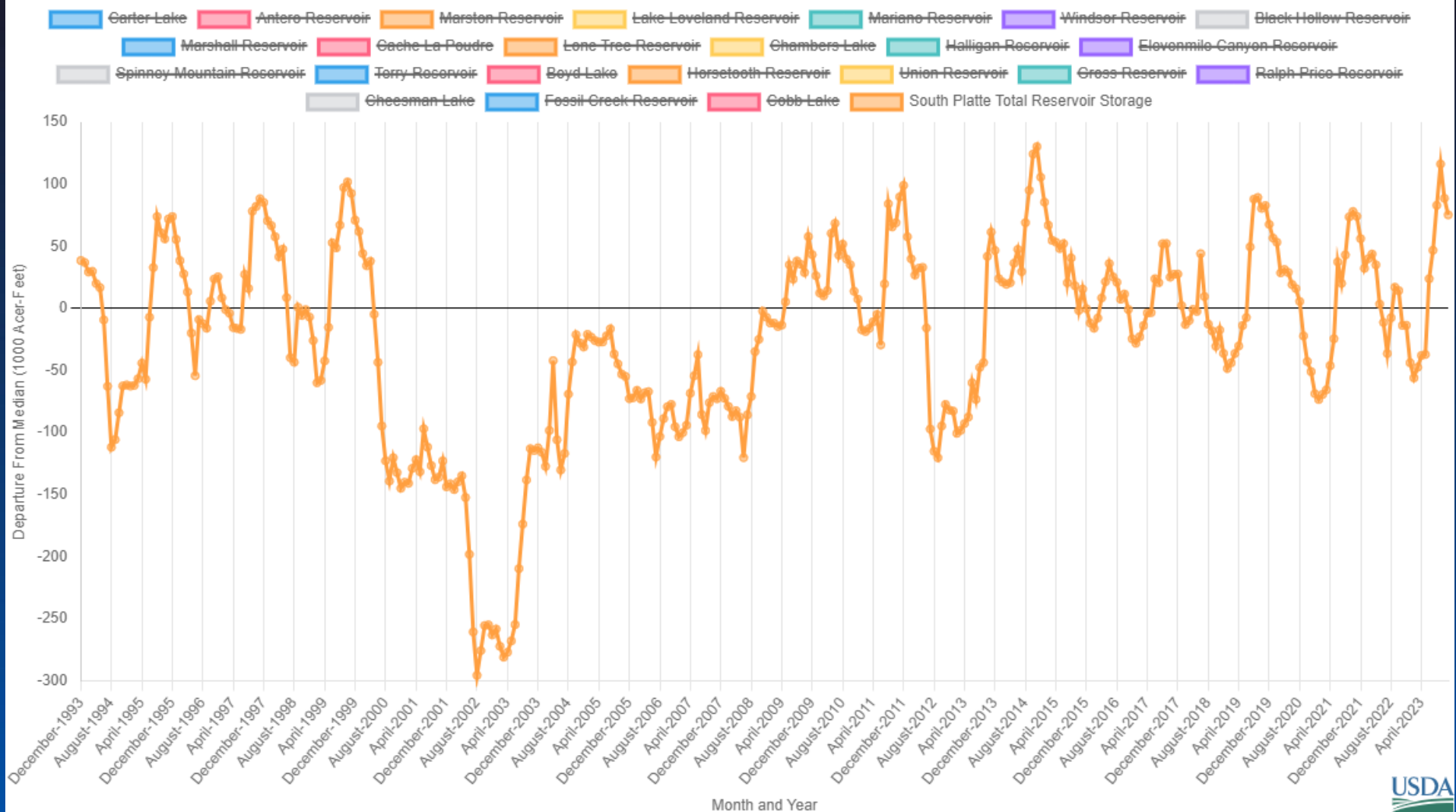
Current as of 11/27/2023:
% of Median - 62%
% of WY Median - 10%
Days Until End of WY - 308
Percentile - 14

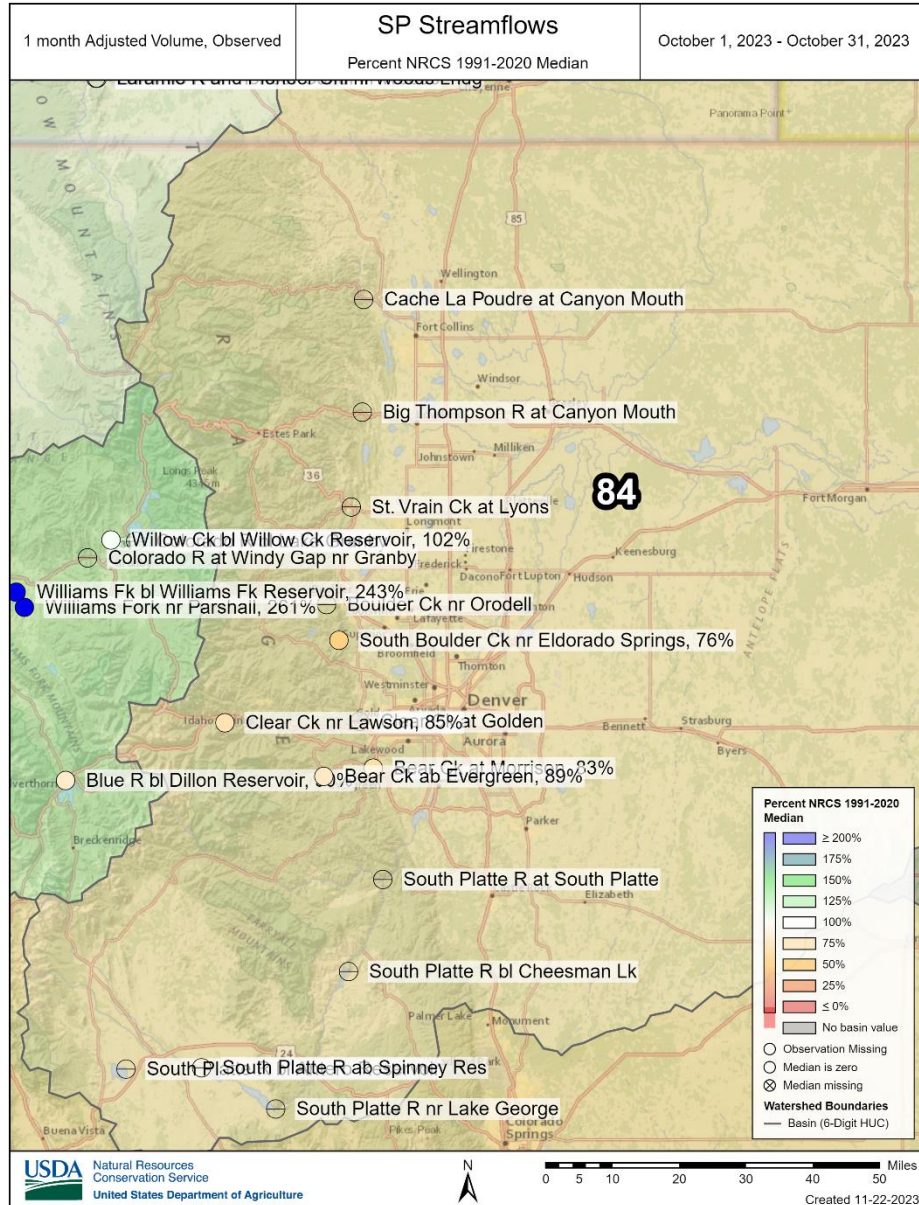


South Platte Reservoir Storage Summary for November 1st 2023



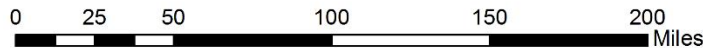
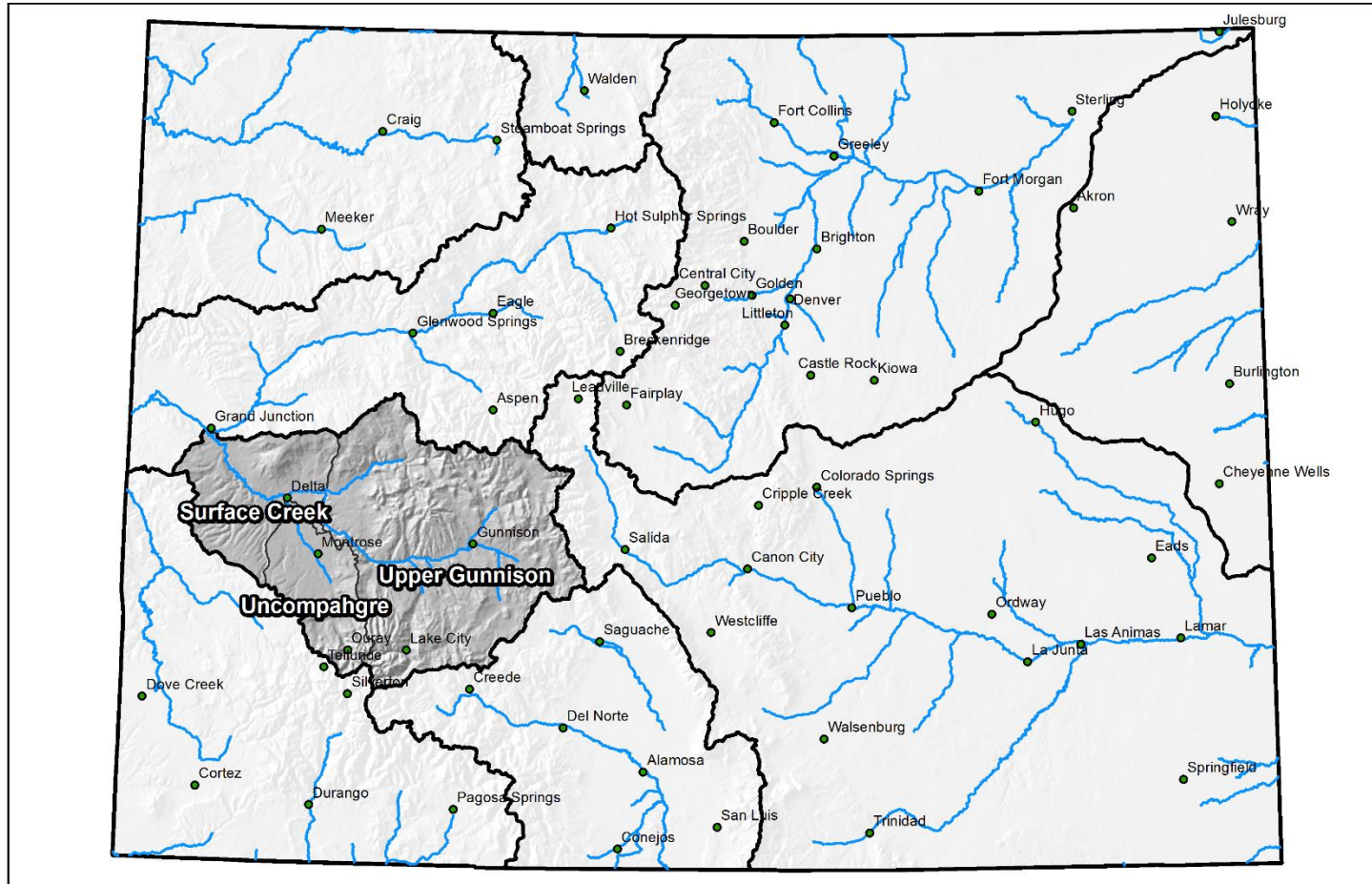
South Platte Departure From Median Timeseries Plot

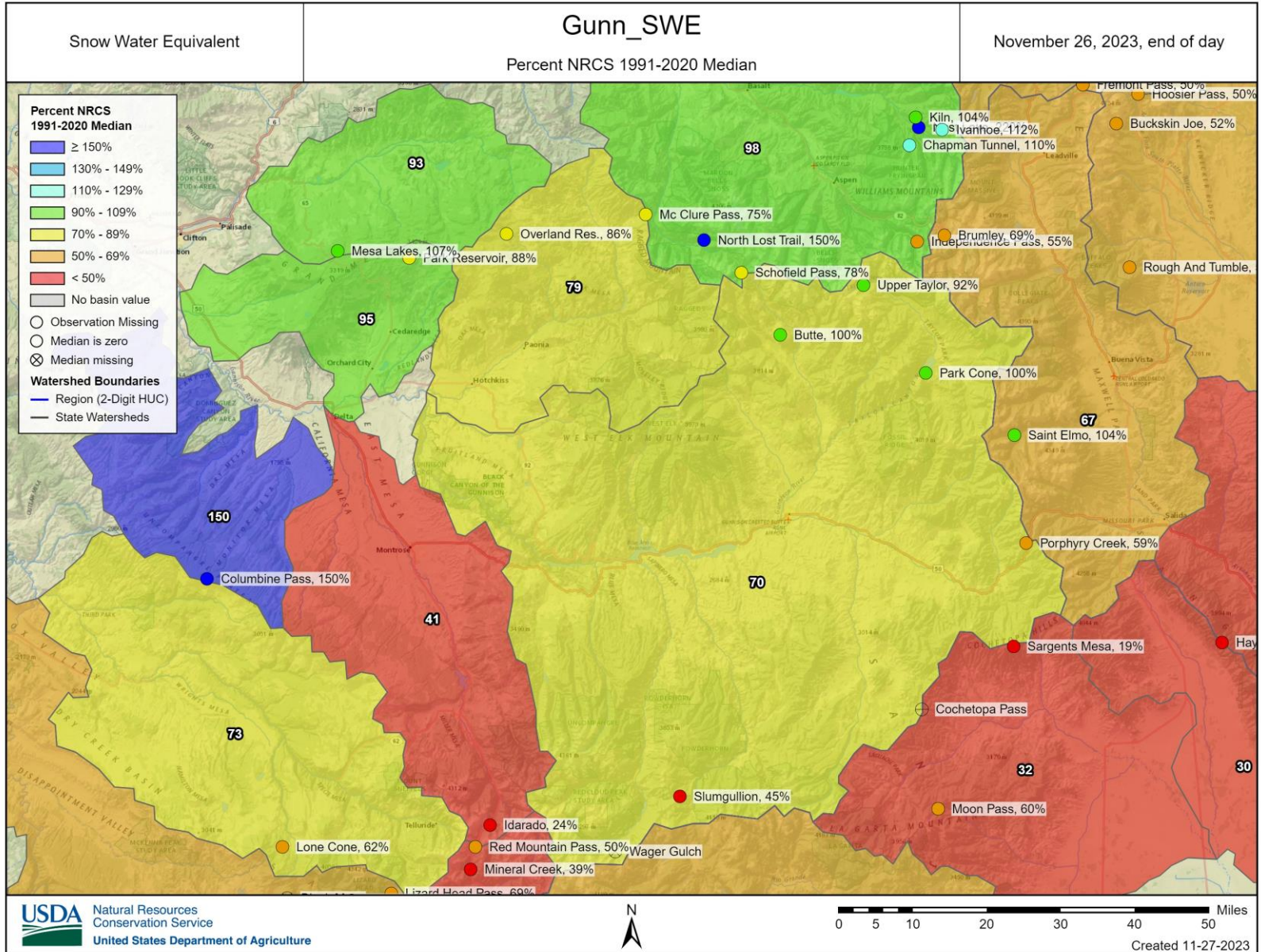




Major Basin Summary

Gunnison River Basin







Colorado Snow Surveys

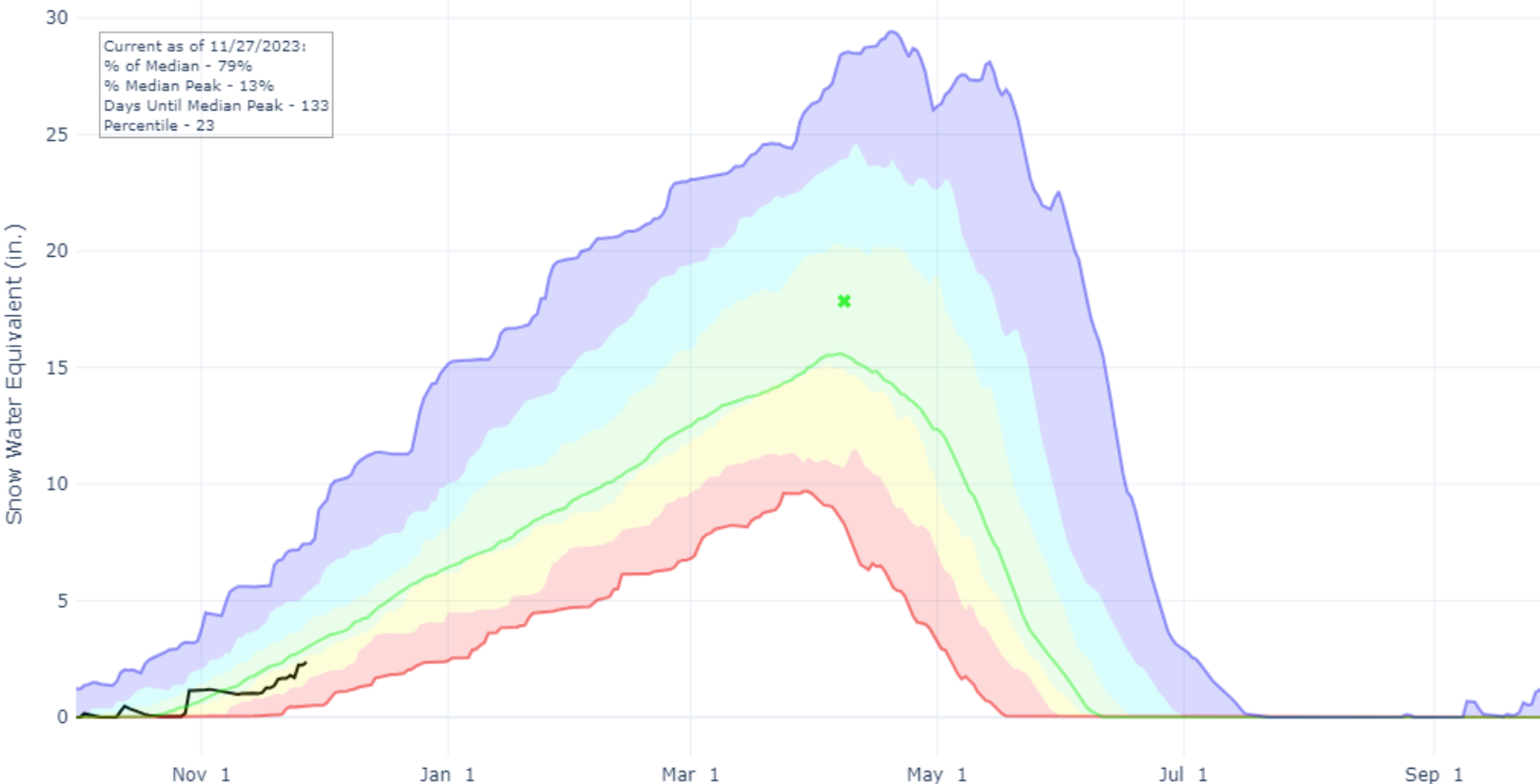
SNOW WATER EQUIVALENT IN GUNNISON

Reset Range

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

Station List

Current as of 11/27/2023:
% of Median - 79%
% Median Peak - 13%
Days Until Median Peak - 133
Percentile - 23



- ✖ Median Peak SWE
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (15 sites)
- 2023 (15 sites)
- 2022 (15 sites)
- 2021 (15 sites)
- 2020 (15 sites)
- 2019 (15 sites)
- 2018 (15 sites)
- 2017 (15 sites)
- 2016 (15 sites)
- 2015 (15 sites)
- 2014 (15 sites)
- 2013 (15 sites)
- 2012 (15 sites)
- 2011 (15 sites)
- 2010 (15 sites)
- 2009 (14 sites)
- 2008 (13 sites)
- 2007 (13 sites)
- 2006 (13 sites)
- 2005 (13 sites)





Colorado Snow Surveys

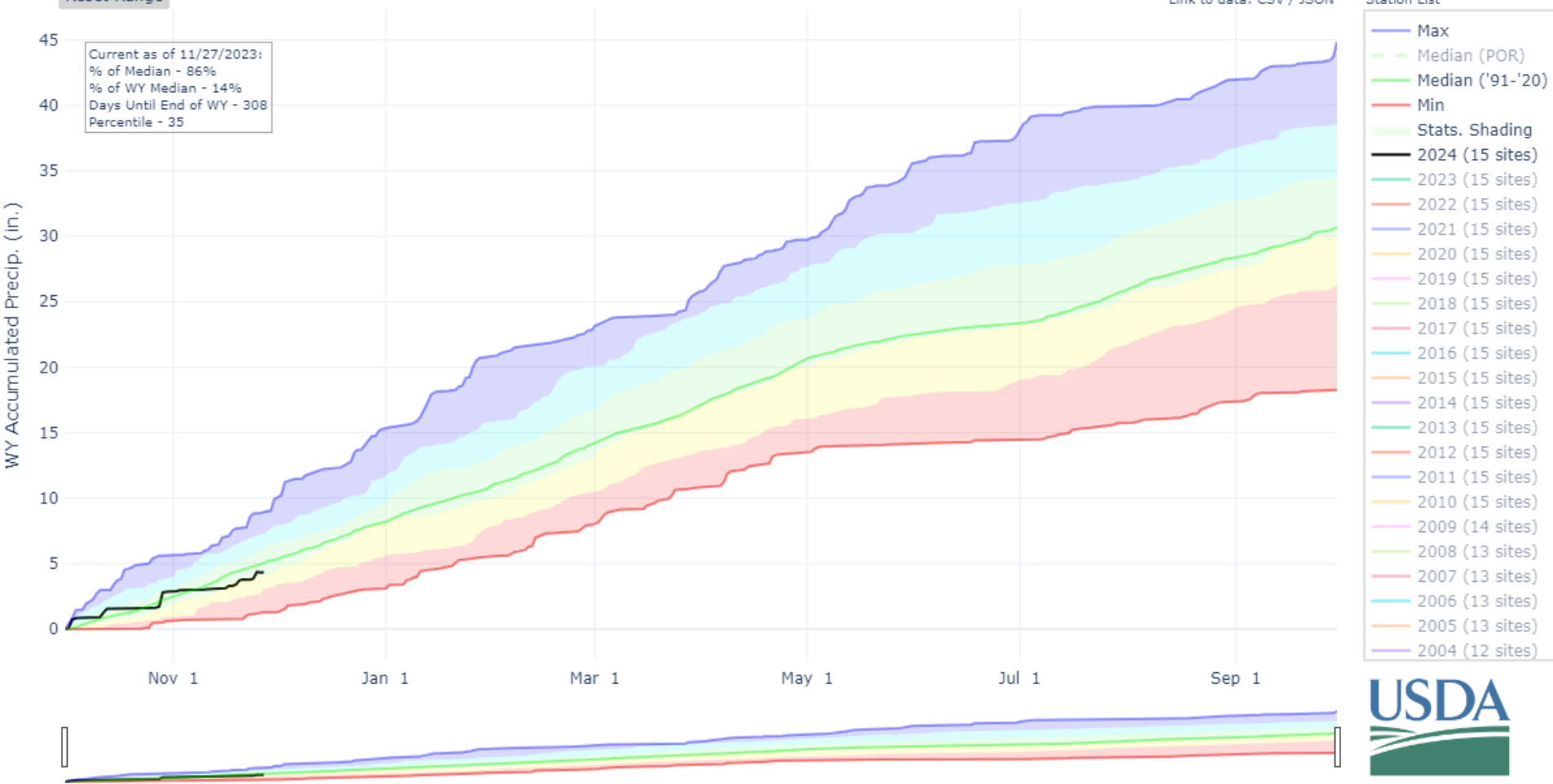
PRECIPITATION IN GUNNISON

Reset Range

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

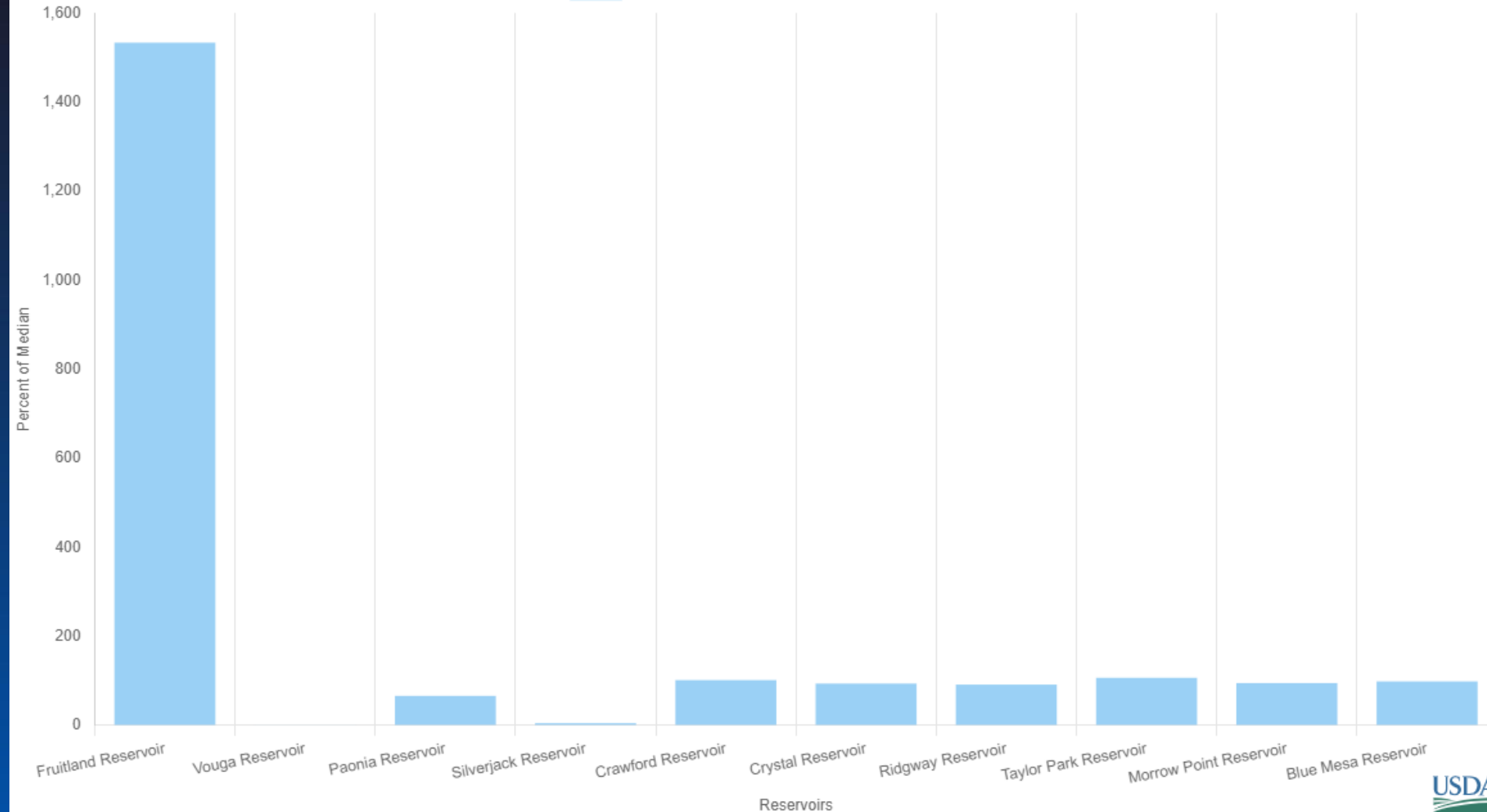
Station List

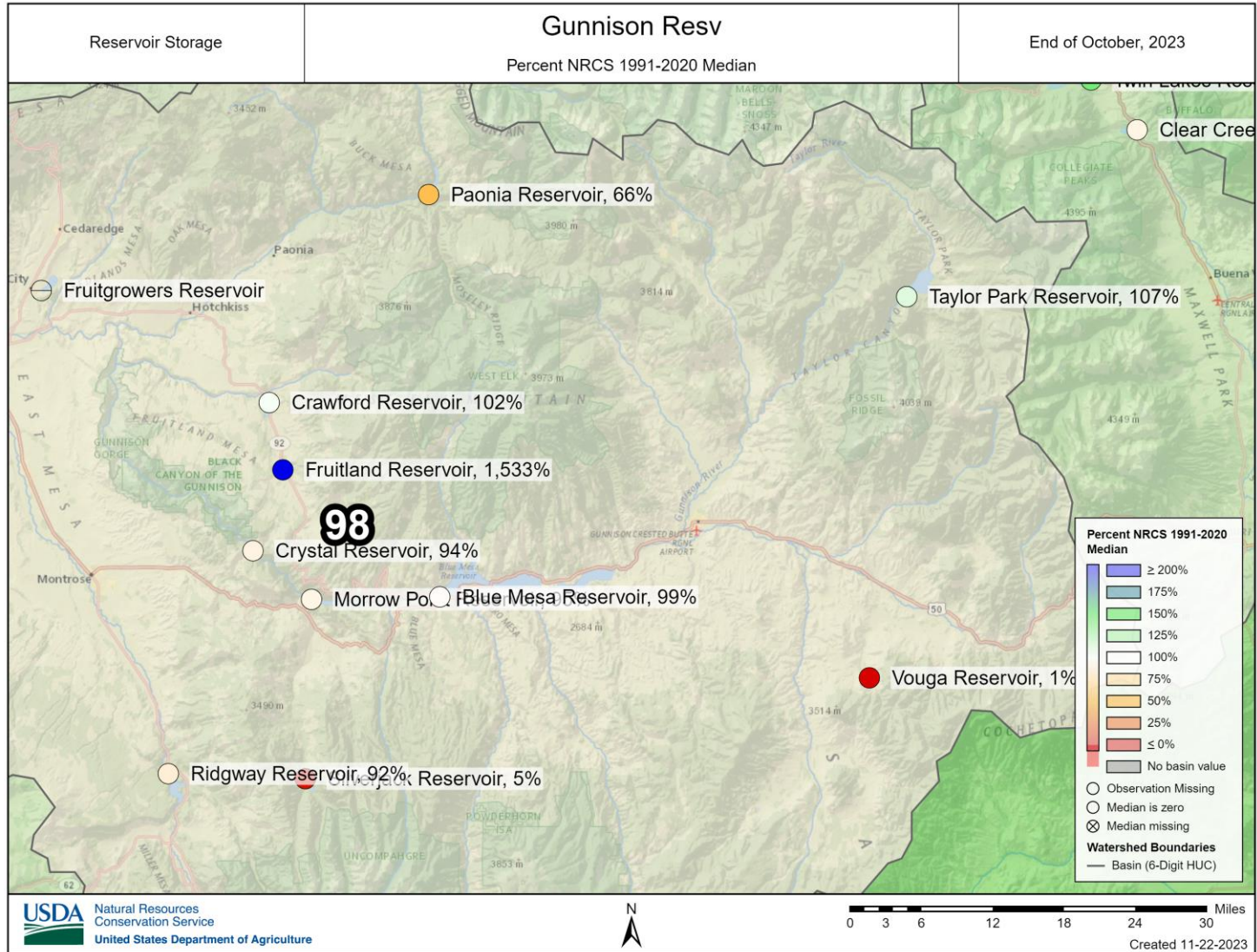
Current as of 11/27/2023:
% of Median - 86%
% of WY Median - 14%
Days Until End of WY - 308
Percentile - 35



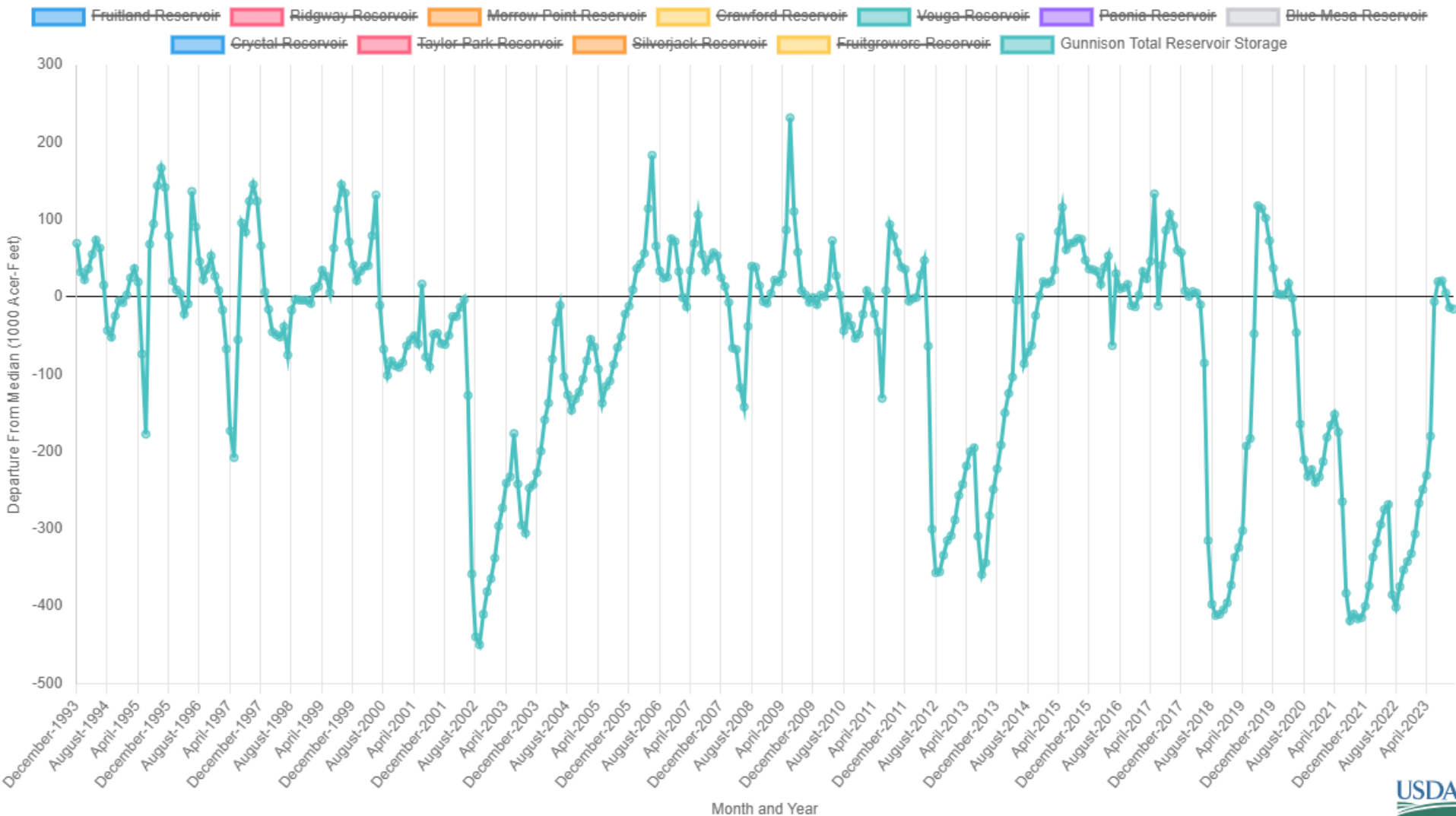
Gunnison Reservoir Storage Summary for November 1st 2023

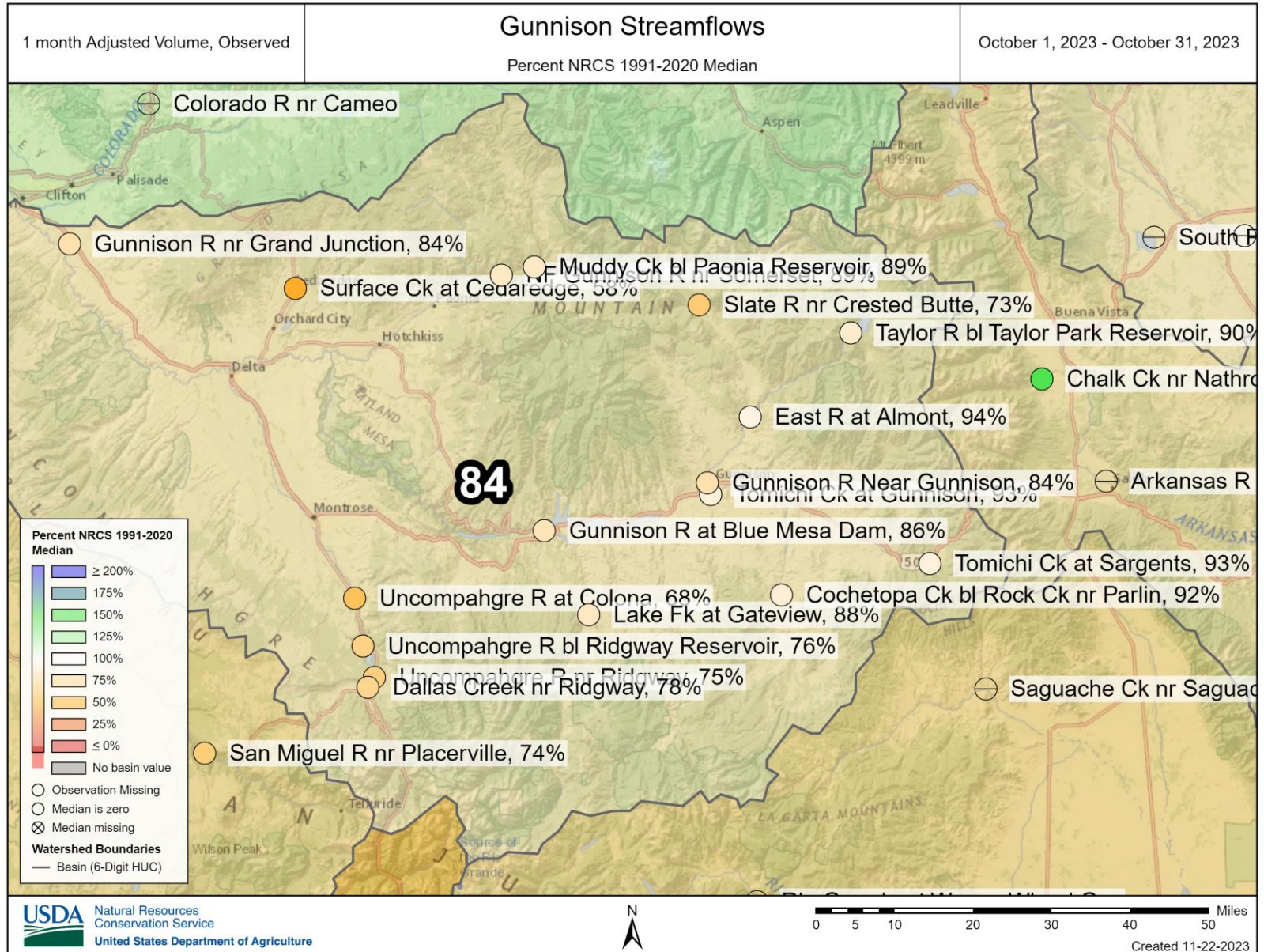
Gunnison Reservoirs as a Percent of Median





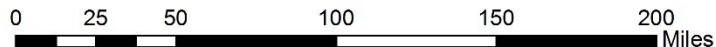
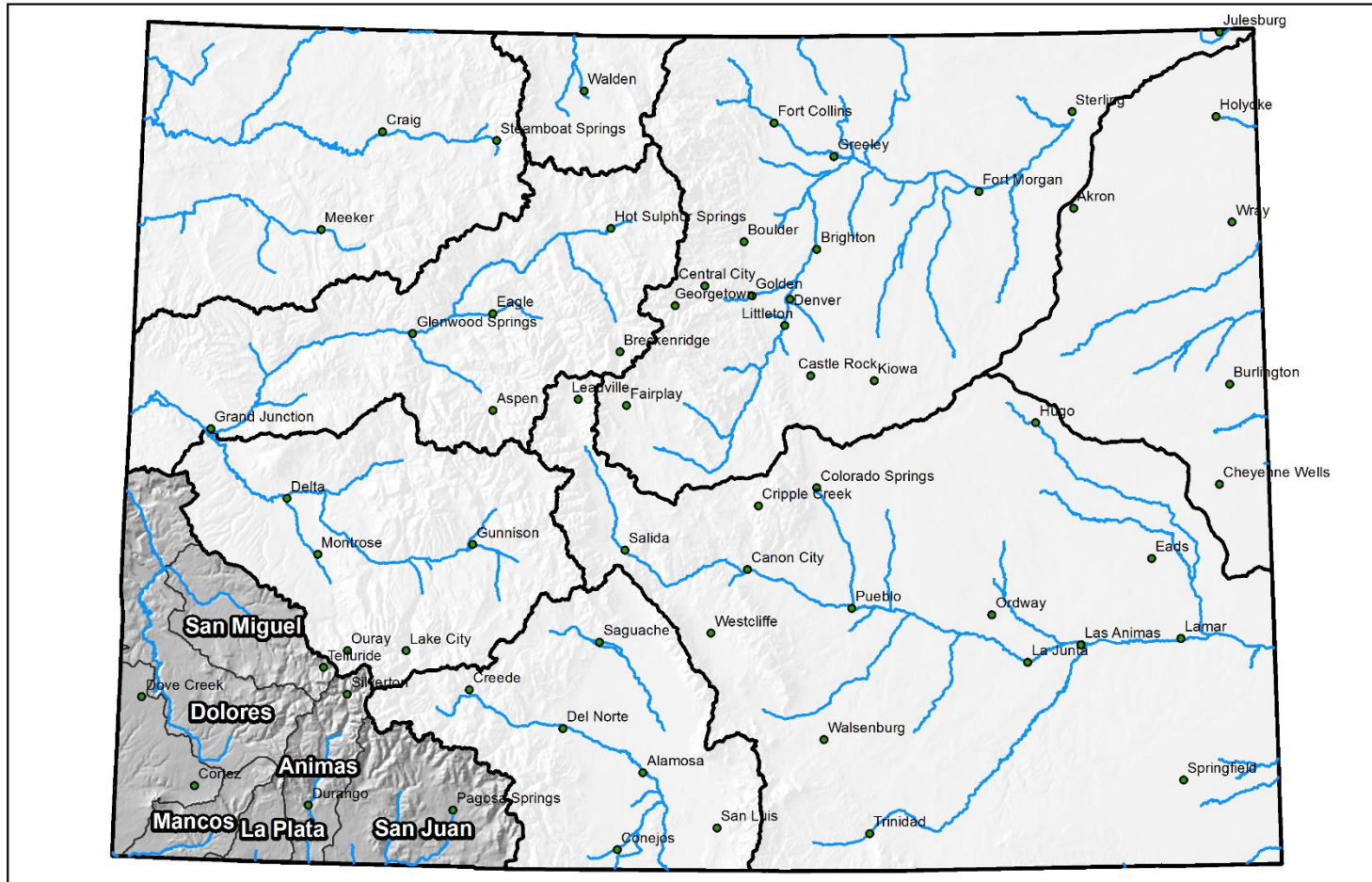
Gunnison Departure From Median Timeseries Plot

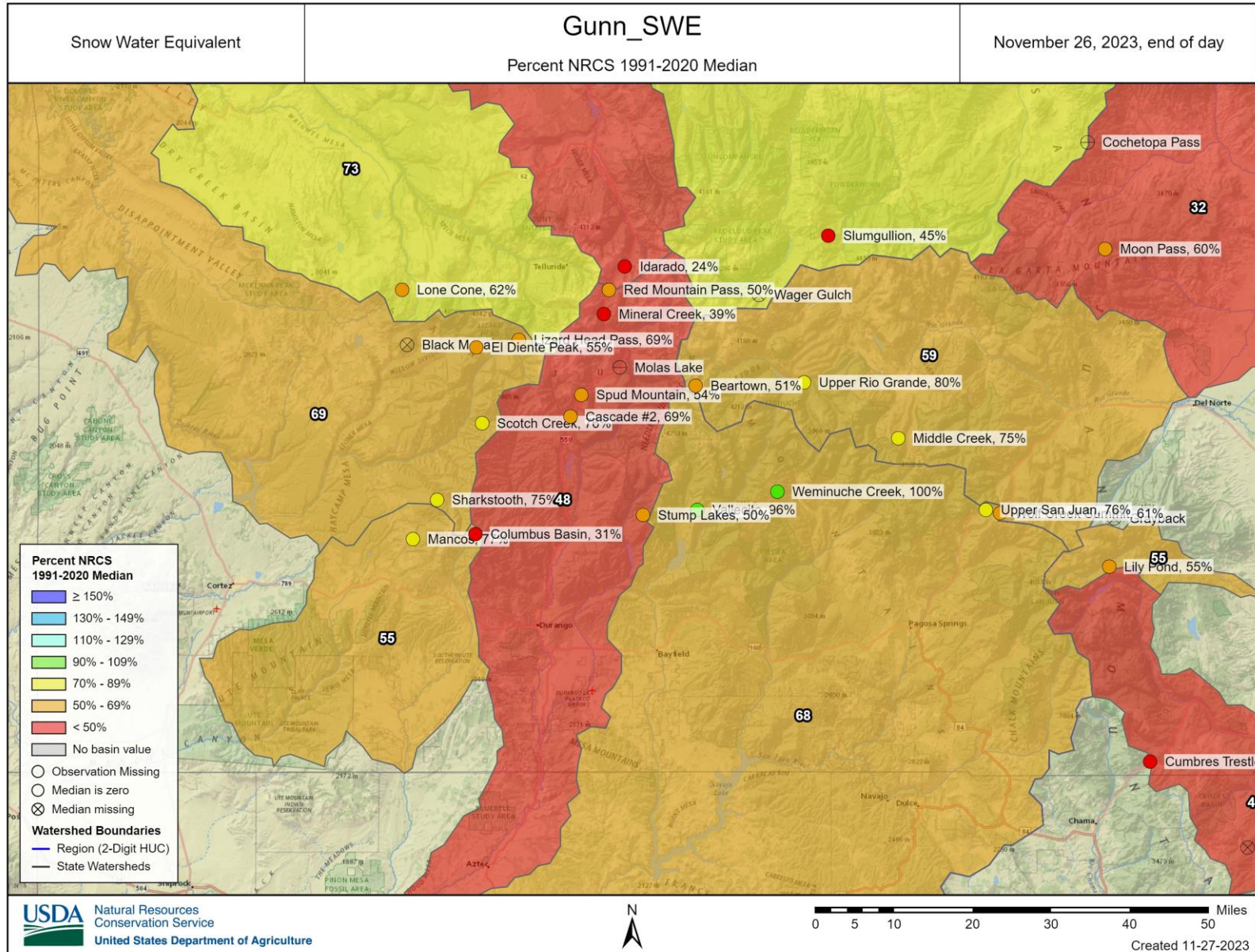




Major Basin Summary

San Miguel, Dolores, Animas, and San Juan River Basins







Colorado Snow Surveys

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

Reset Range

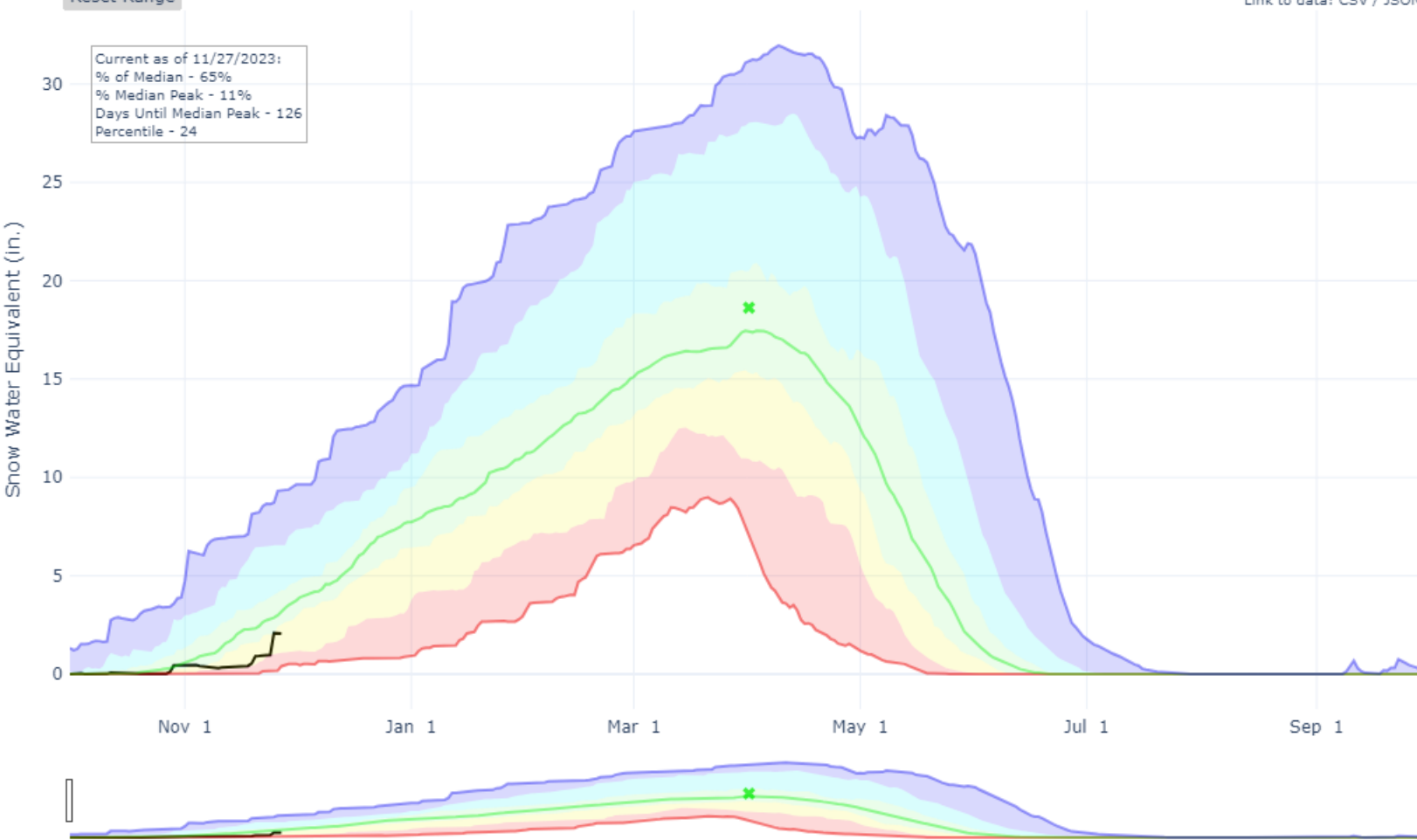
[Link to data: CSV / JSON](#)

Station List

Current as of 11/27/2023:
% of Median - 65%
% Median Peak - 11%
Days Until Median Peak - 126
Percentile - 24

Snow Water Equivalent (in.)

- * Median Peak SWE
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (19 sites)
- 2023 (19 sites)
- 2022 (19 sites)
- 2021 (19 sites)
- 2020 (19 sites)
- 2019 (19 sites)
- 2018 (19 sites)
- 2017 (19 sites)
- 2016 (19 sites)
- 2015 (19 sites)
- 2014 (19 sites)
- 2013 (19 sites)
- 2012 (19 sites)
- 2011 (19 sites)
- 2010 (18 sites)
- 2009 (18 sites)
- 2008 (18 sites)
- 2007 (18 sites)
- 2006 (18 sites)
- 2005 (18 sites)





Colorado Snow Surveys

PRECIPITATION IN SAN MIGUEL-DOLORES-ANIMAS-SAN JUAN

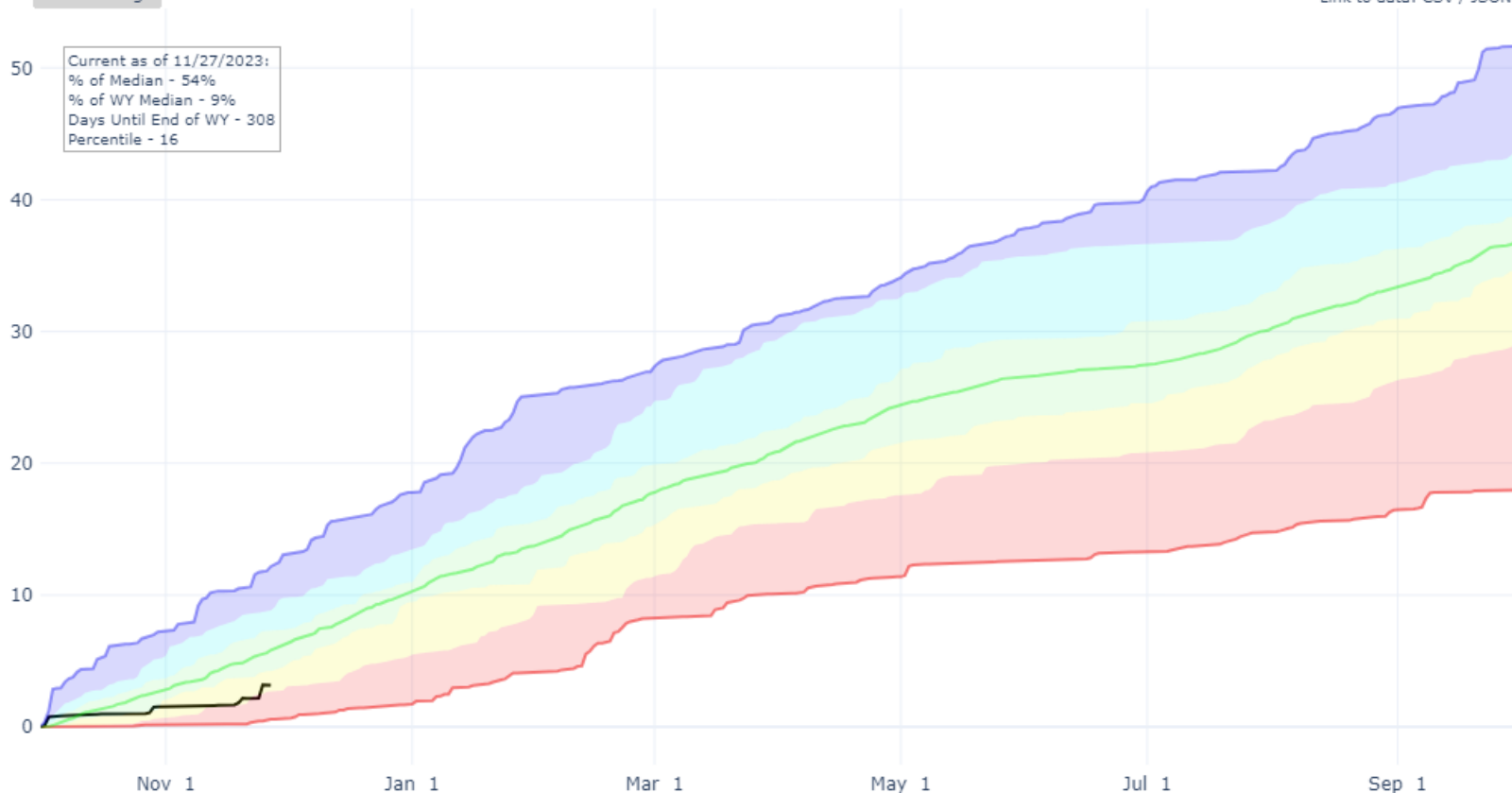
Reset Range

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

Station List

Current as of 11/27/2023:
% of Median - 54%
% of WY Median - 9%
Days Until End of WY - 308
Percentile - 16

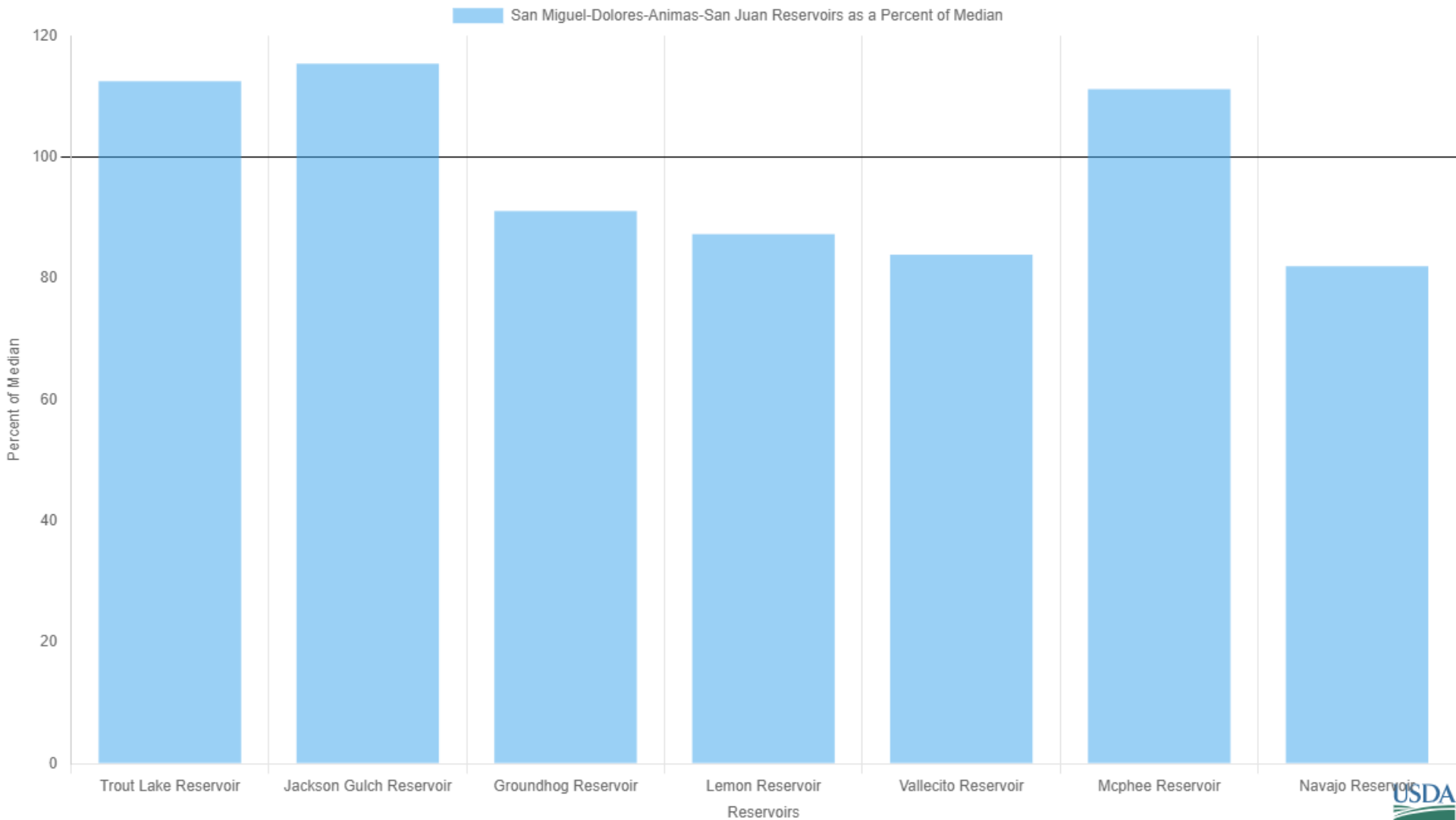
WY Accumulated Precip. (in.)



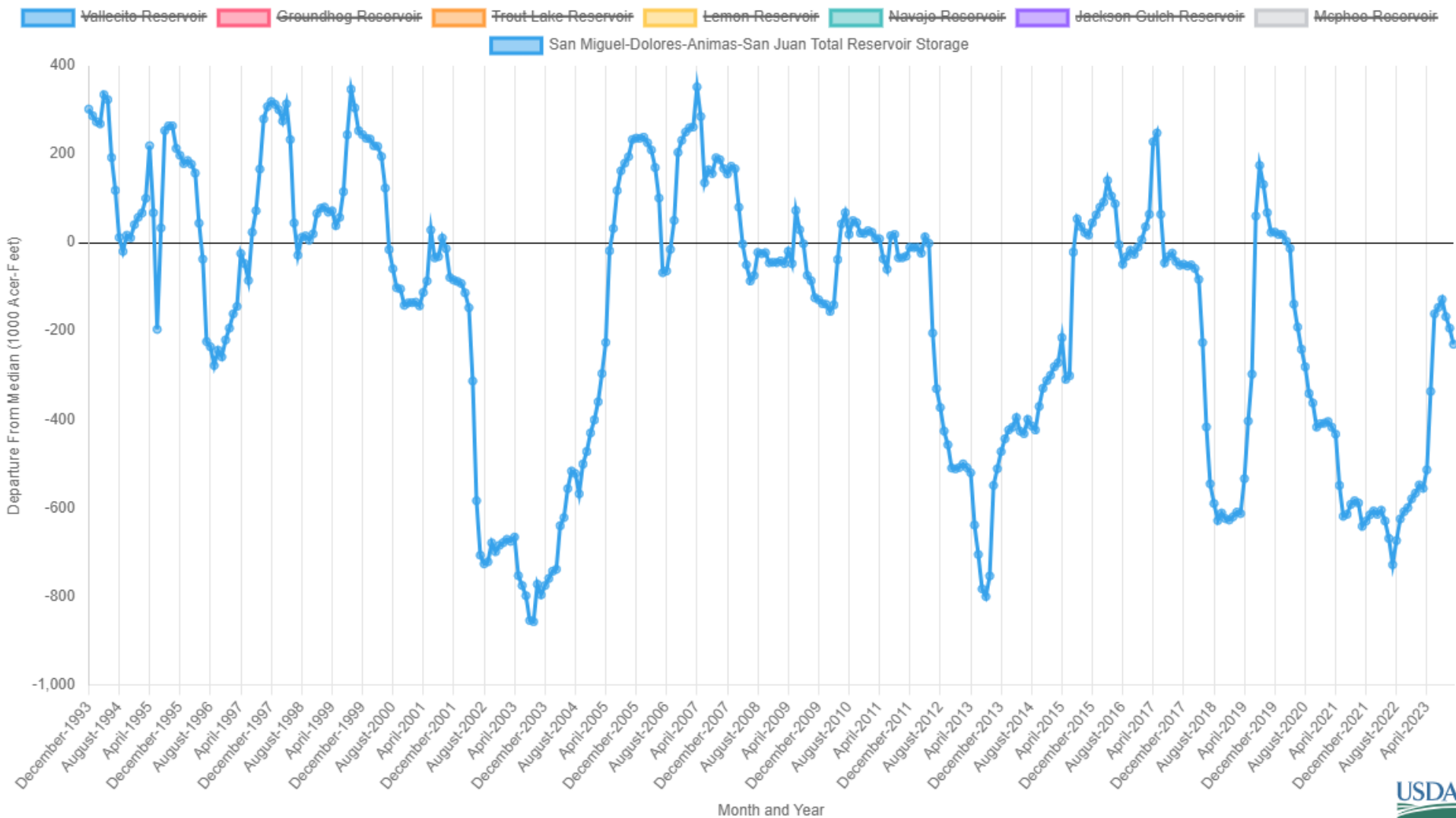
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (19 sites)
- 2023 (19 sites)
- 2022 (19 sites)
- 2021 (19 sites)
- 2020 (19 sites)
- 2019 (19 sites)
- 2018 (19 sites)
- 2017 (19 sites)
- 2016 (19 sites)
- 2015 (19 sites)
- 2014 (19 sites)
- 2013 (19 sites)
- 2012 (19 sites)
- 2011 (19 sites)
- 2010 (18 sites)
- 2009 (18 sites)
- 2008 (18 sites)
- 2007 (18 sites)
- 2006 (18 sites)
- 2005 (18 sites)
- 2004 (17 sites)

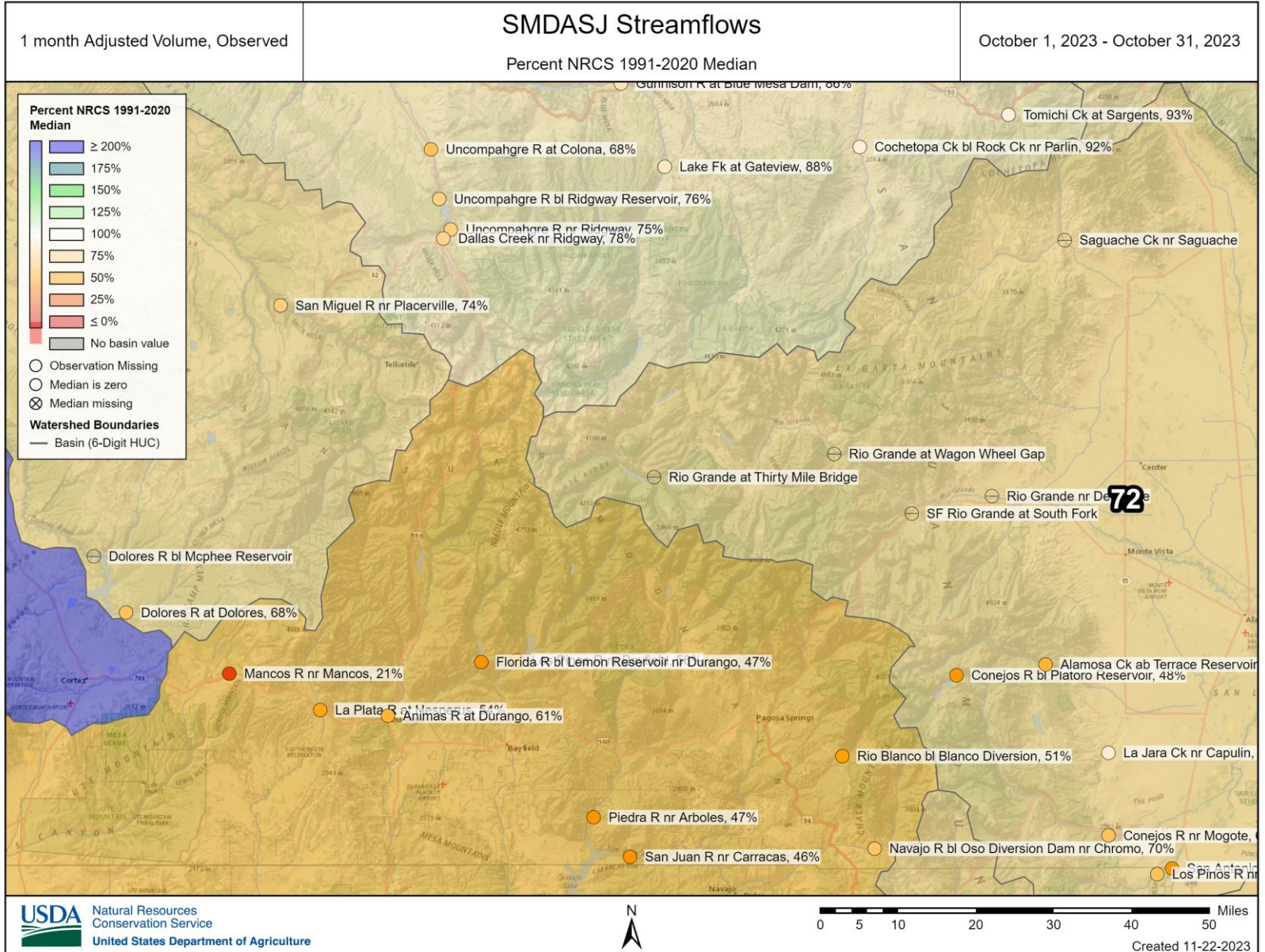


San Miguel-Dolores-Animas-San Juan Reservoir Storage Summary for November 1st 2023



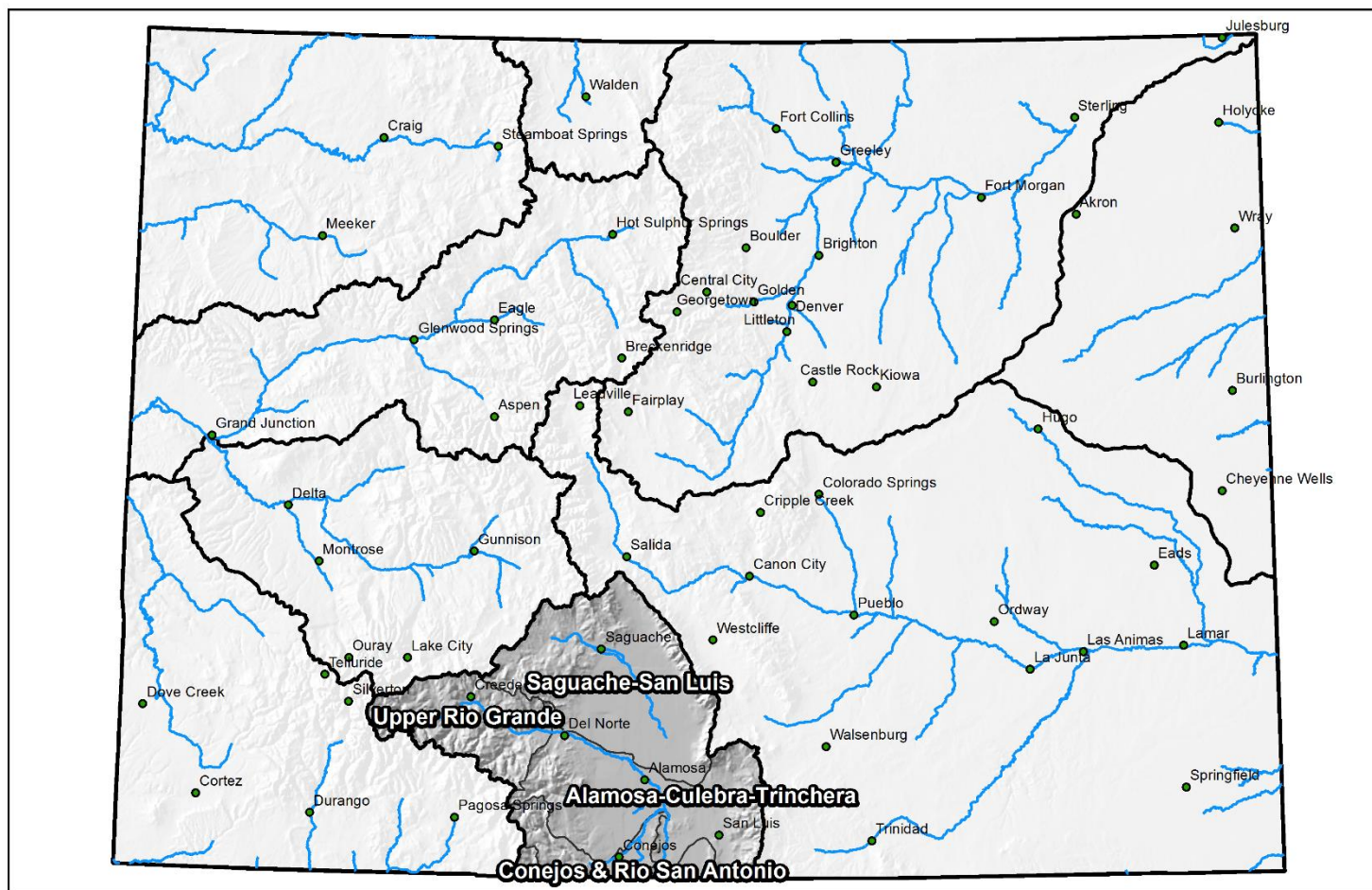
San Miguel-Dolores-Animas-San Juan Departure From Median Timeseries Plot





Major Basin Summary

Upper Rio Grande River Basin

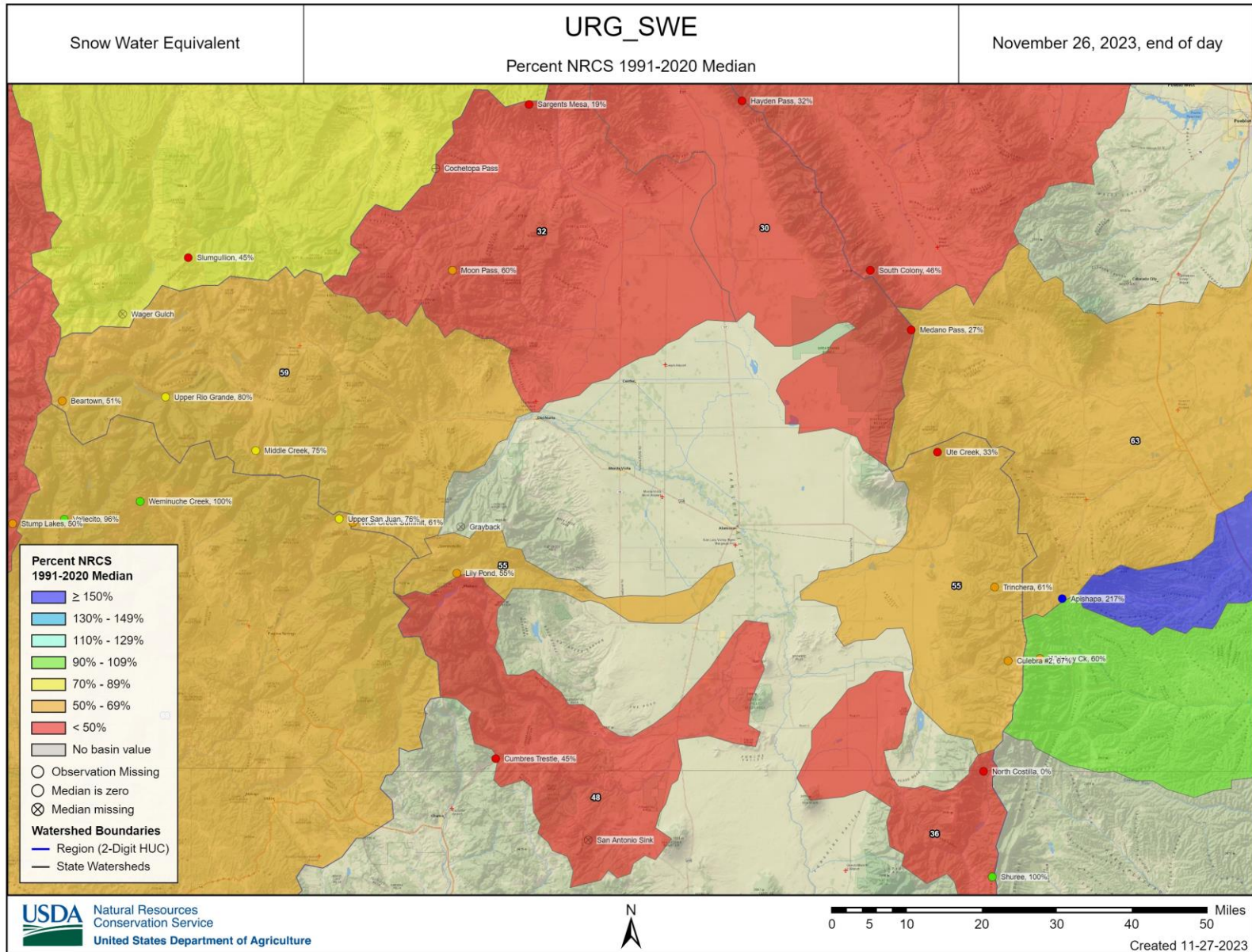


0 25 50 100 150 200 Miles



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Colorado Snow Surveys





Colorado Snow Surveys

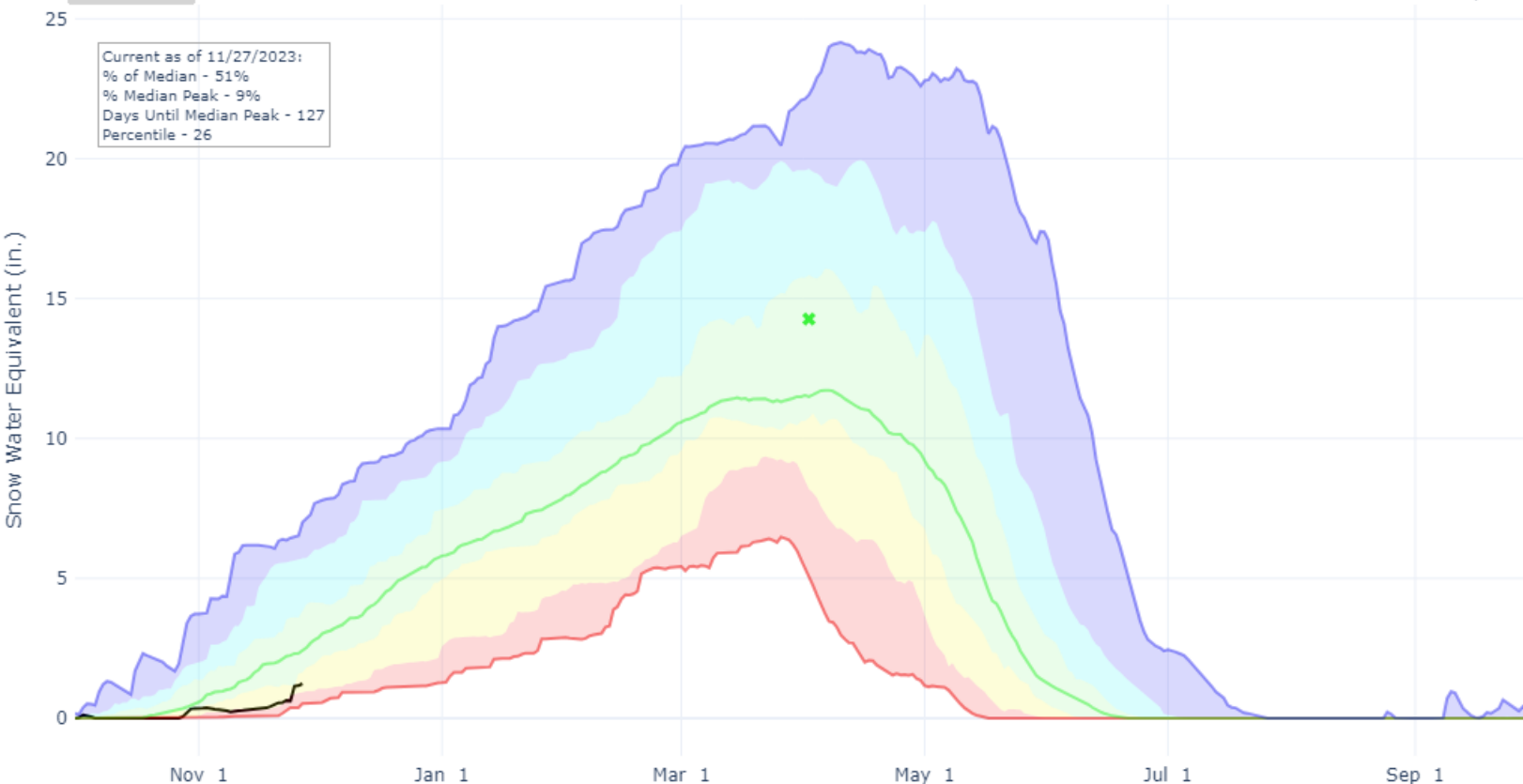
SNOW WATER EQUIVALENT IN UPPER RIO GRANDE

Reset Range

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

Station List

Current as of 11/27/2023:
% of Median - 51%
% Median Peak - 9%
Days Until Median Peak - 127
Percentile - 26



- * Median Peak SWE
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2024 (18 sites)
- 2023 (18 sites)
- 2022 (18 sites)
- 2021 (18 sites)
- 2020 (18 sites)
- 2019 (18 sites)
- 2018 (18 sites)
- 2017 (18 sites)
- 2016 (18 sites)
- 2015 (18 sites)
- 2014 (18 sites)
- 2013 (18 sites)
- 2012 (18 sites)
- 2011 (17 sites)
- 2010 (16 sites)
- 2009 (16 sites)
- 2008 (14 sites)
- 2007 (13 sites)
- 2006 (13 sites)
- 2005 (13 sites)





Colorado Snow Surveys

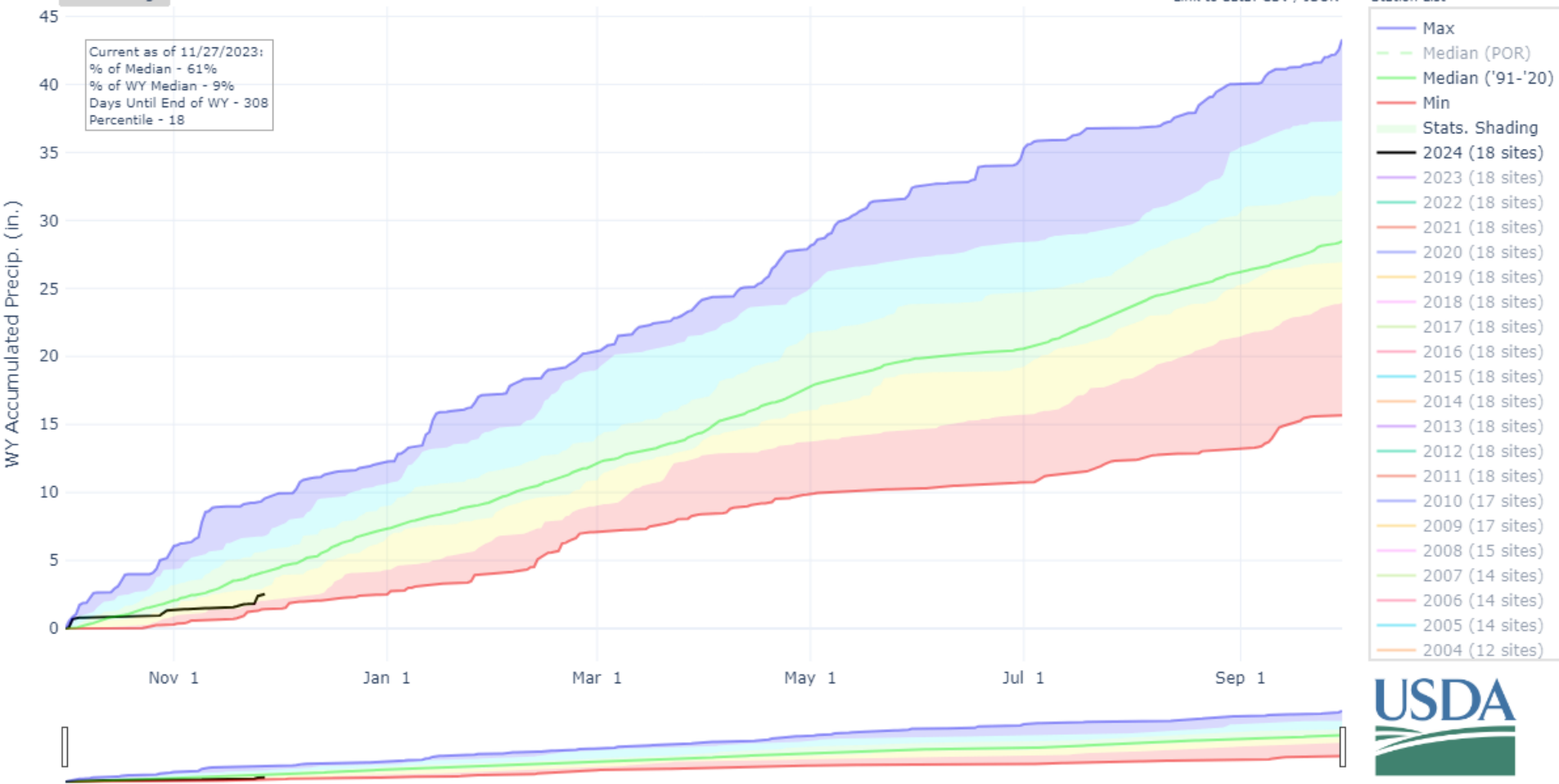
PRECIPITATION IN UPPER RIO GRANDE

Reset Range

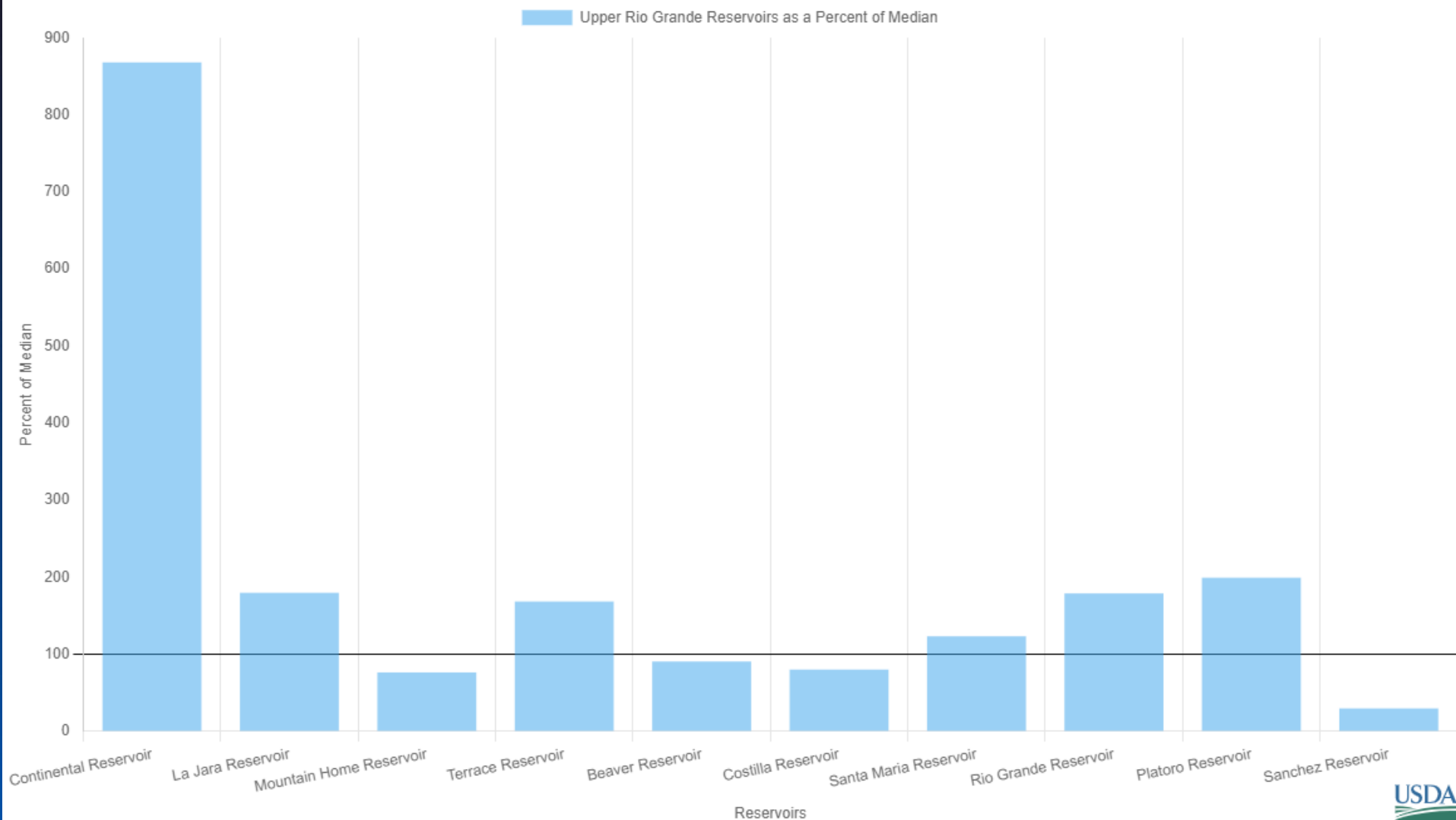
[Link to data: CSV / JSON](#)

Station List

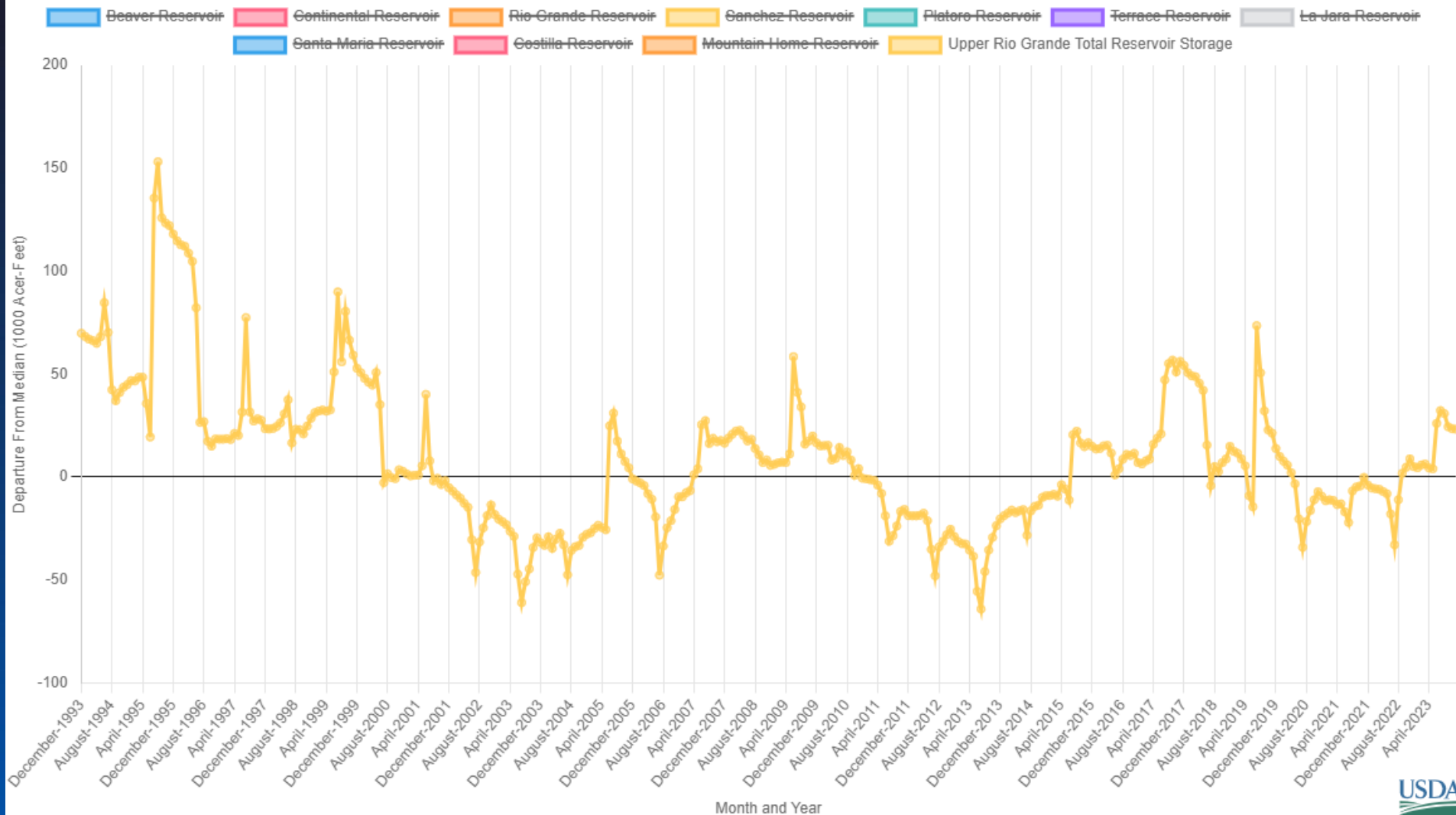
Current as of 11/27/2023:
% of Median - 61%
% of WY Median - 9%
Days Until End of WY - 308
Percentile - 18



Upper Rio Grande Reservoir Storage Summary for November 1st 2023



Upper Rio Grande Departure From Median Timeseries Plot

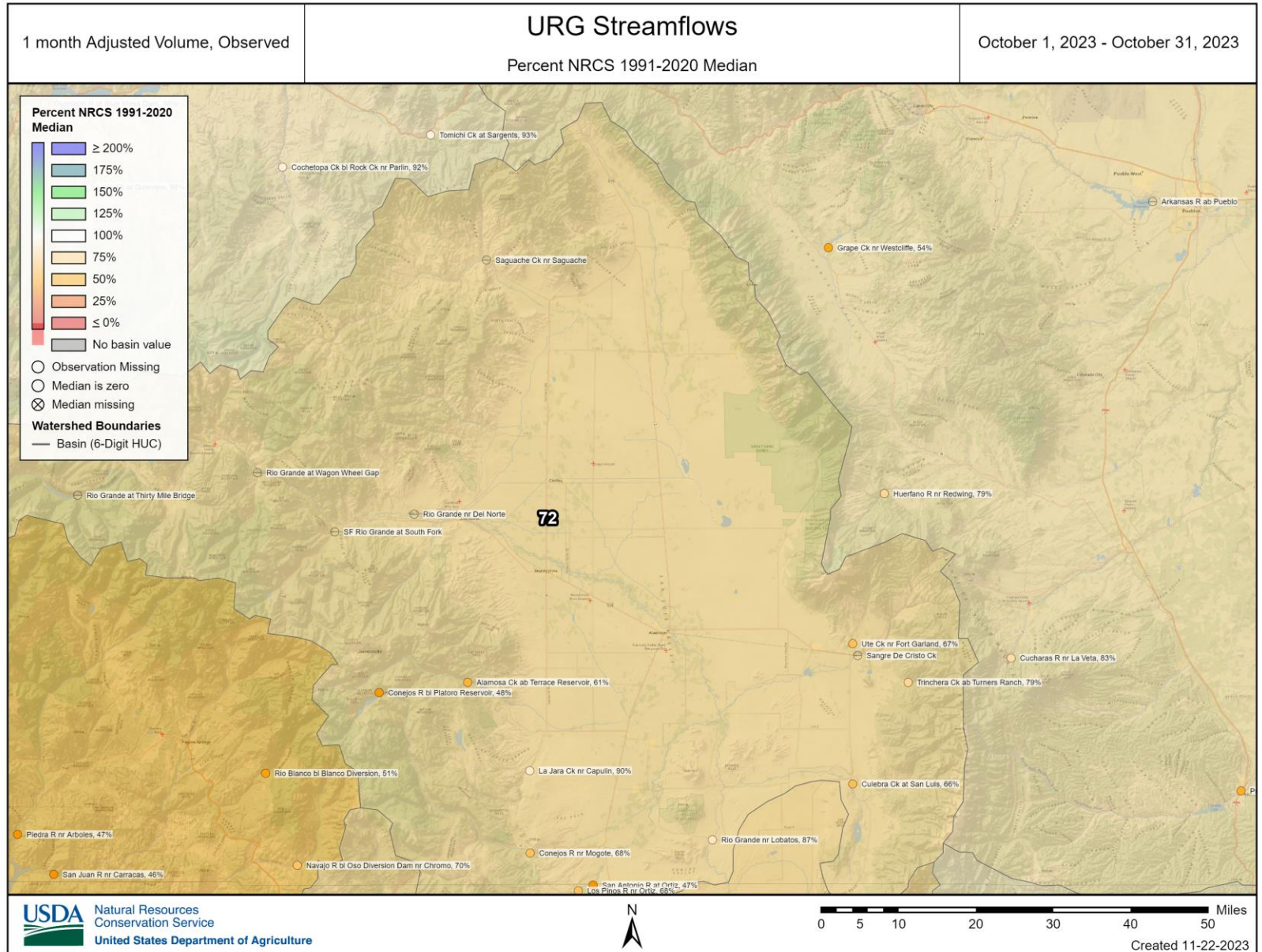




United States Department of Agriculture

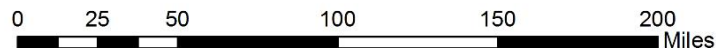
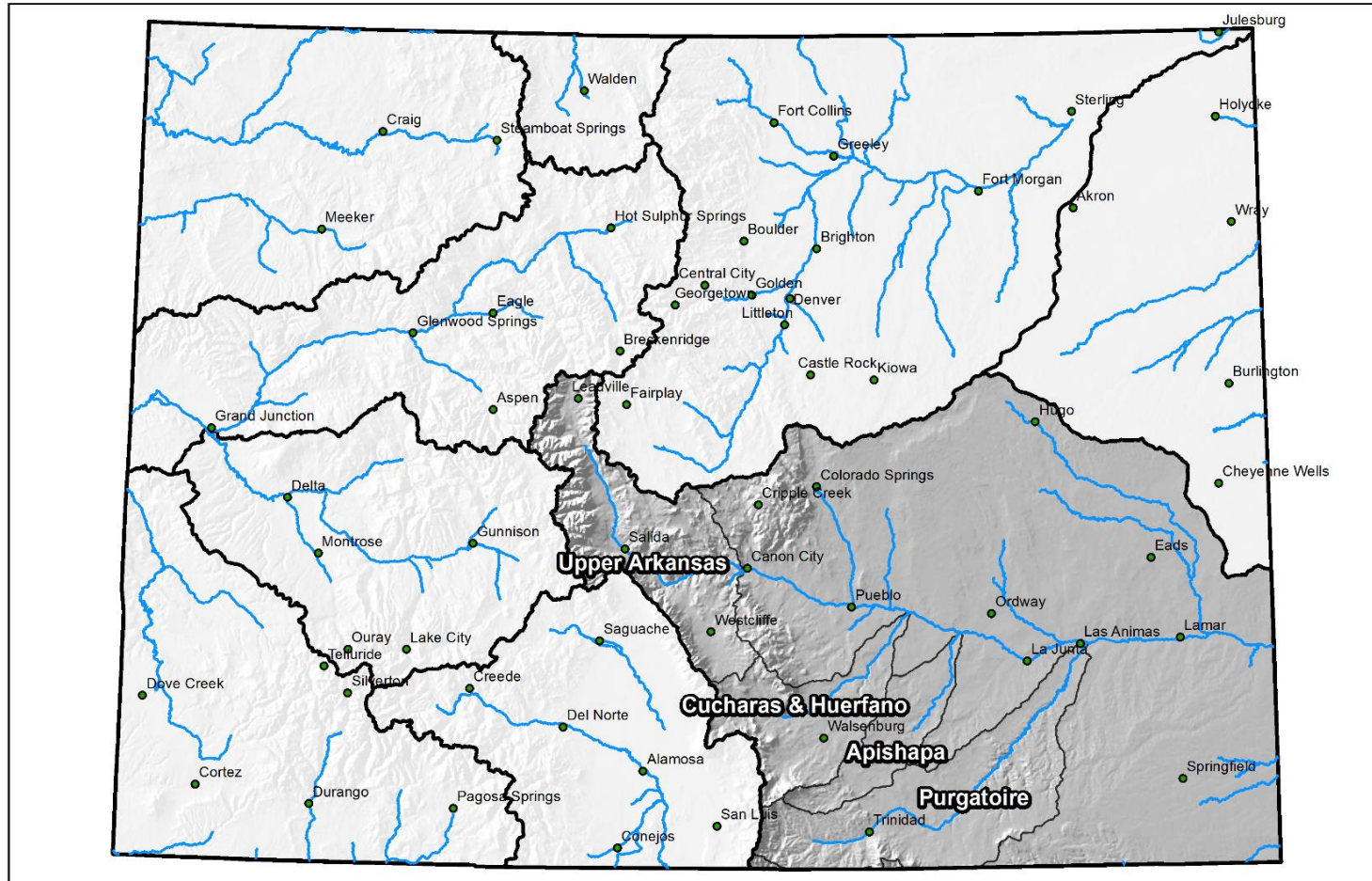
Colorado Snow Surveys

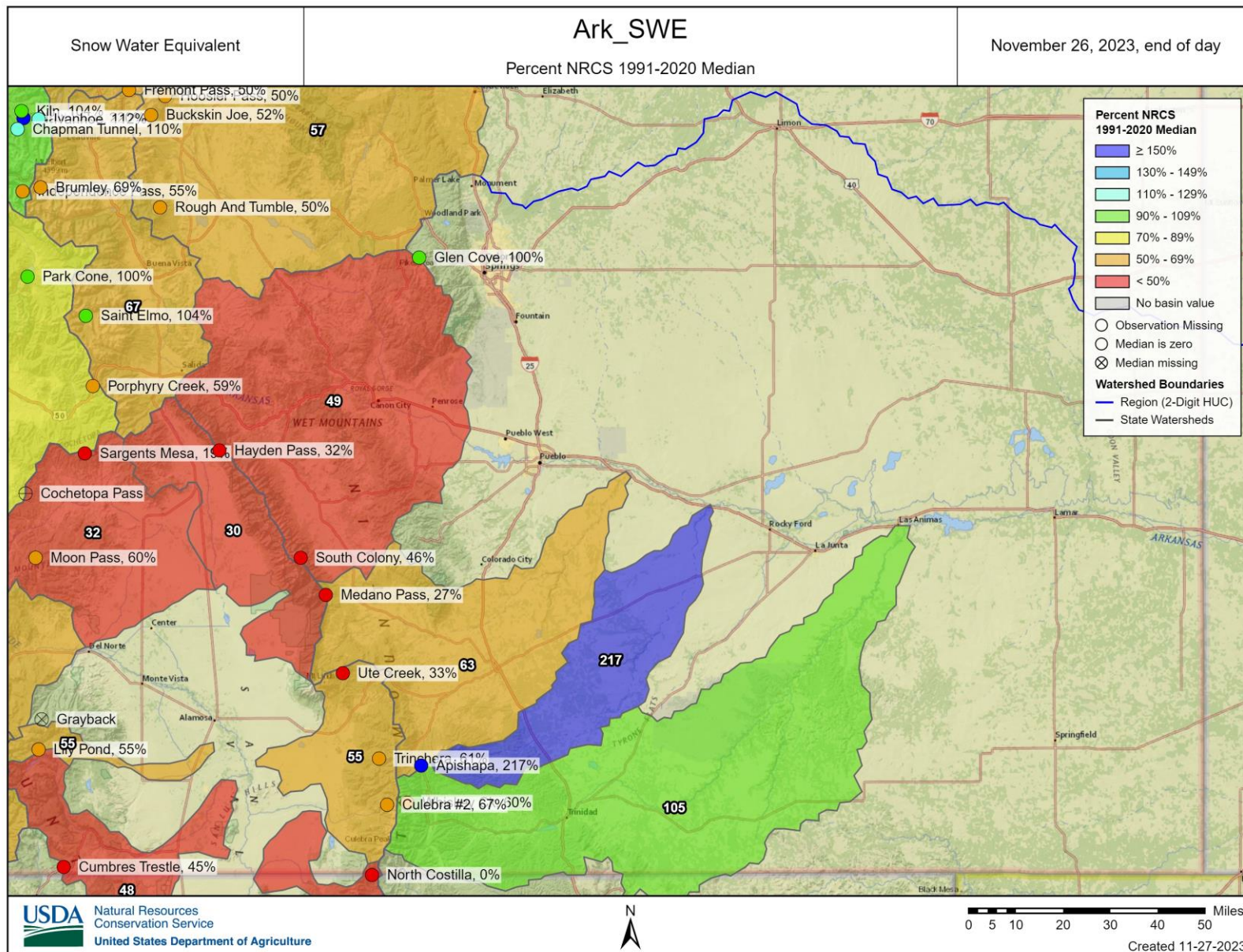
Observed Streamflow (percent)



Major Basin Summary

Arkansas River Basin







Colorado Snow Surveys

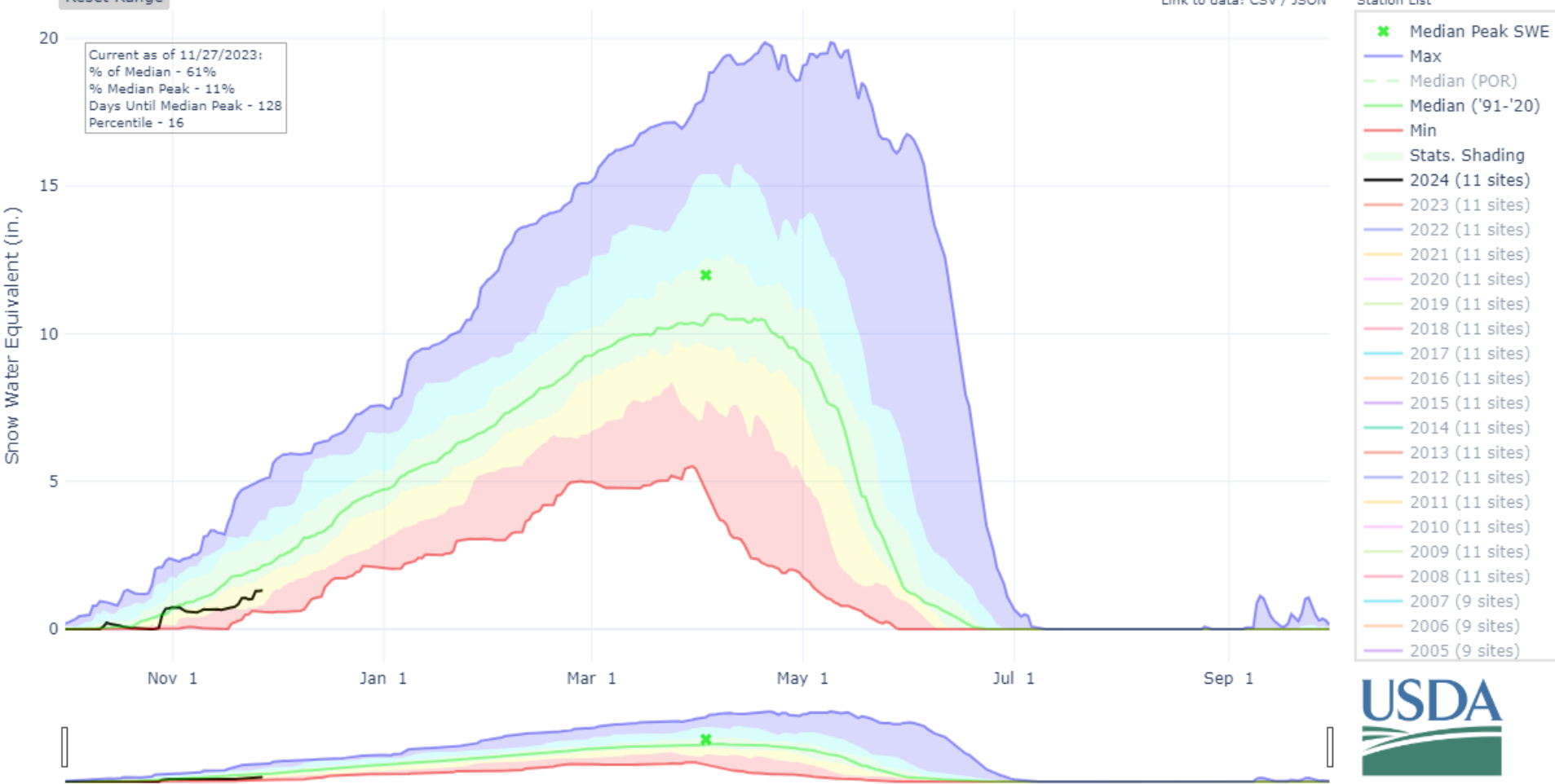
SNOW WATER EQUIVALENT IN ARKANSAS

Reset Range

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

Station List

Current as of 11/27/2023:
% of Median - 61%
% Median Peak - 11%
Days Until Median Peak - 128
Percentile - 16





Colorado Snow Surveys

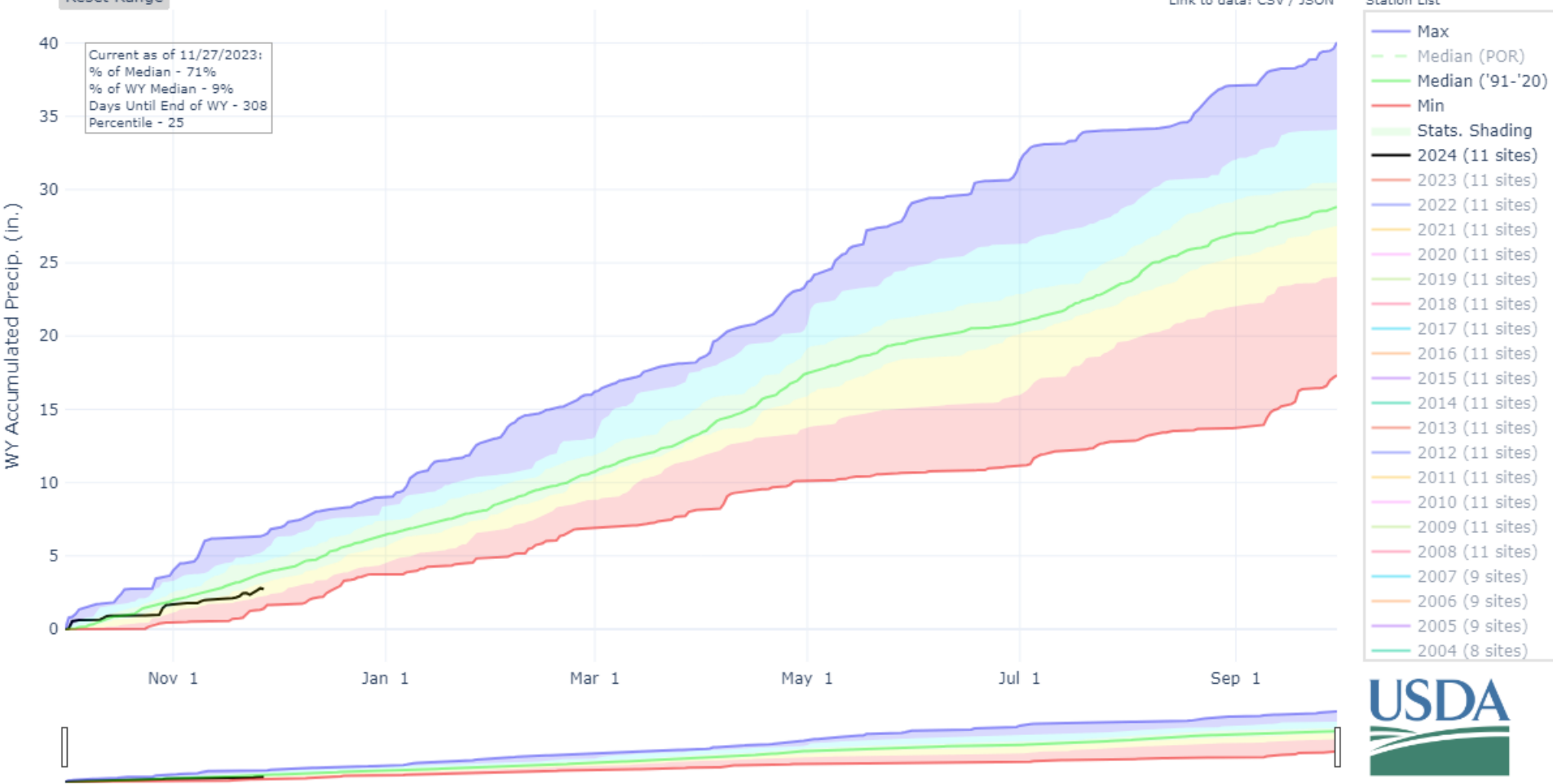
PRECIPITATION IN ARKANSAS

Reset Range

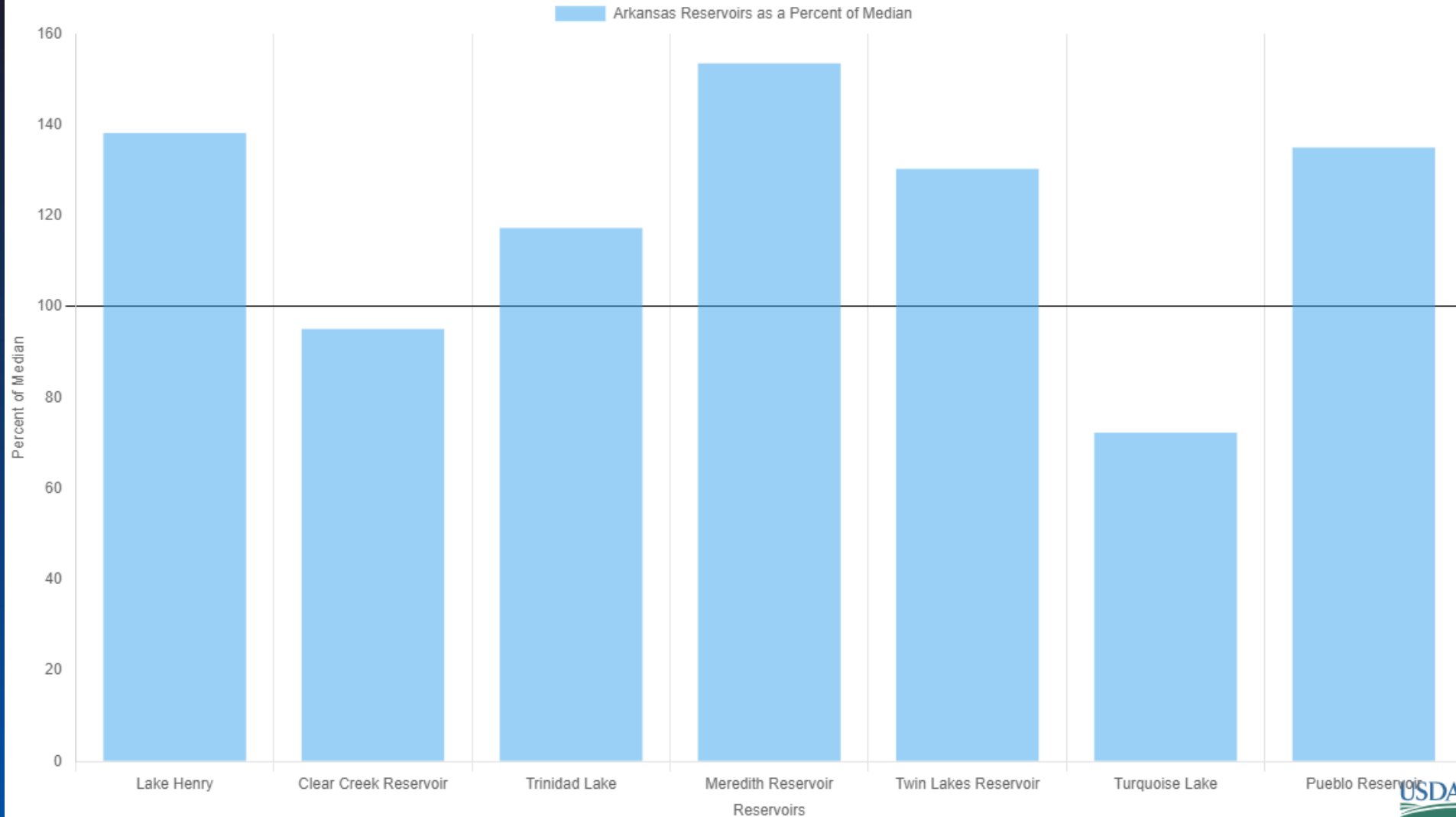
[Link to data: CSV / JSON](#)

Station List

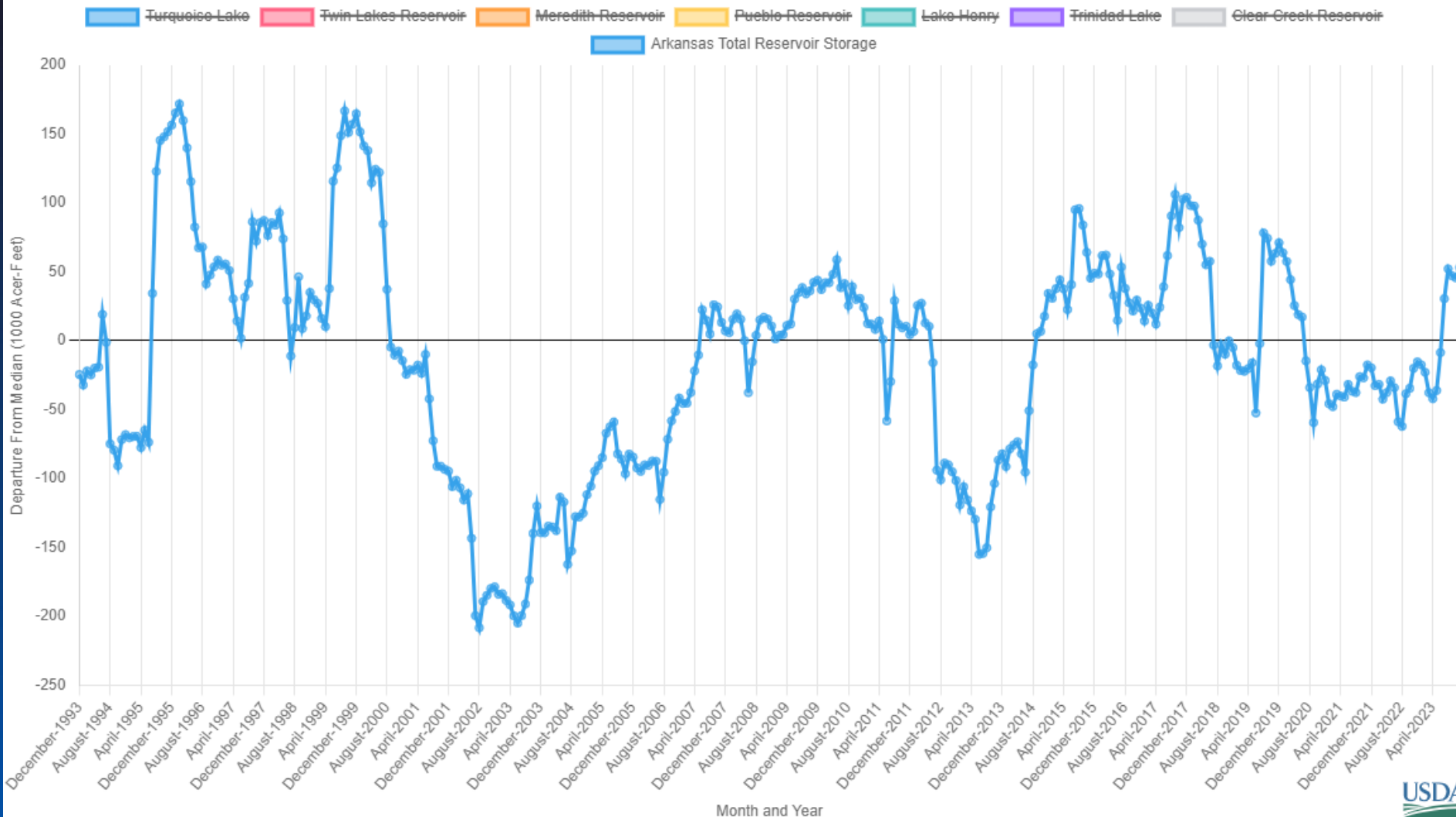
Current as of 11/27/2023:
% of Median - 71%
% of WY Median - 9%
Days Until End of WY - 308
Percentile - 25

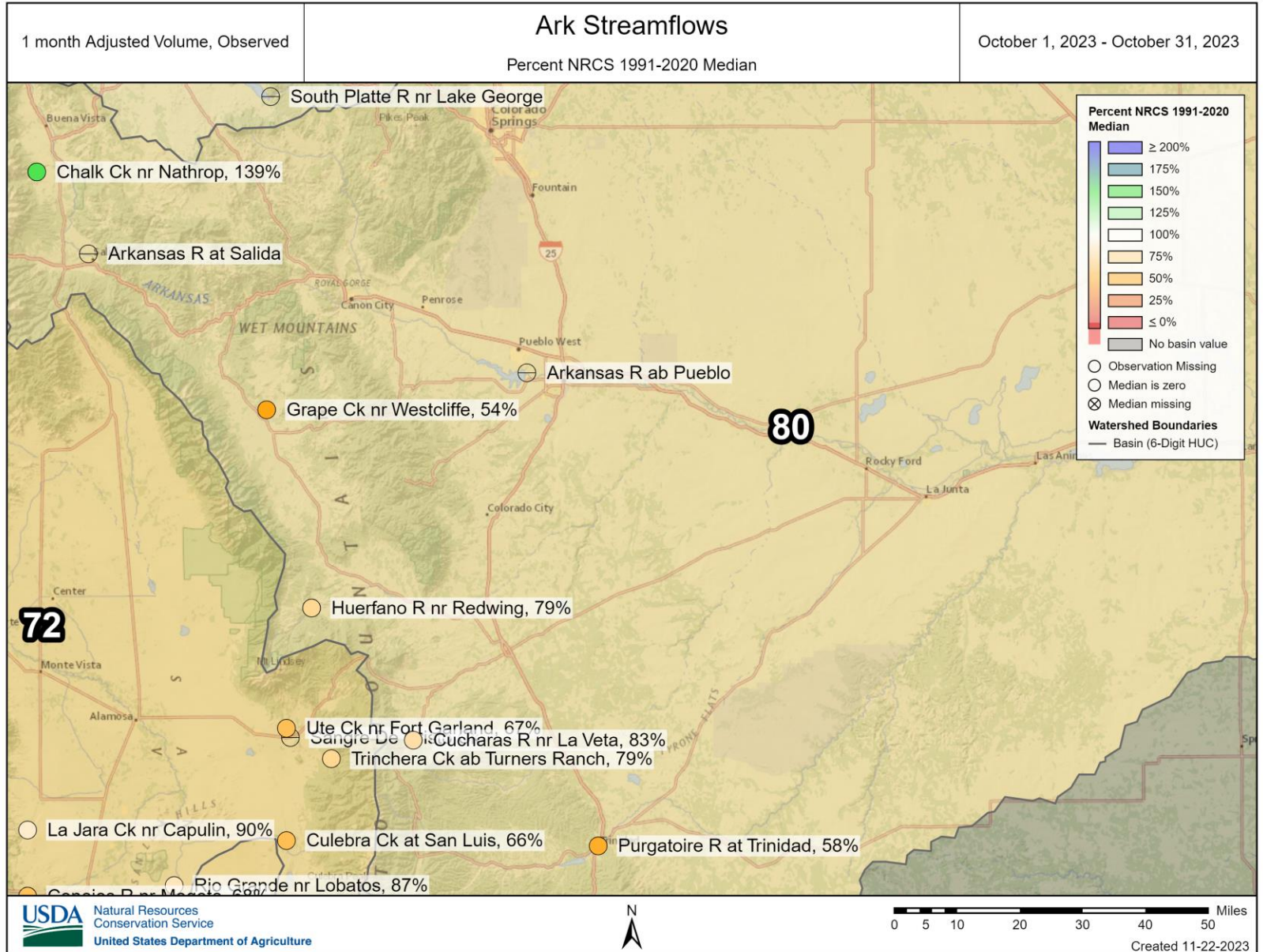


Arkansas Reservoir Storage Summary for November 1st 2023



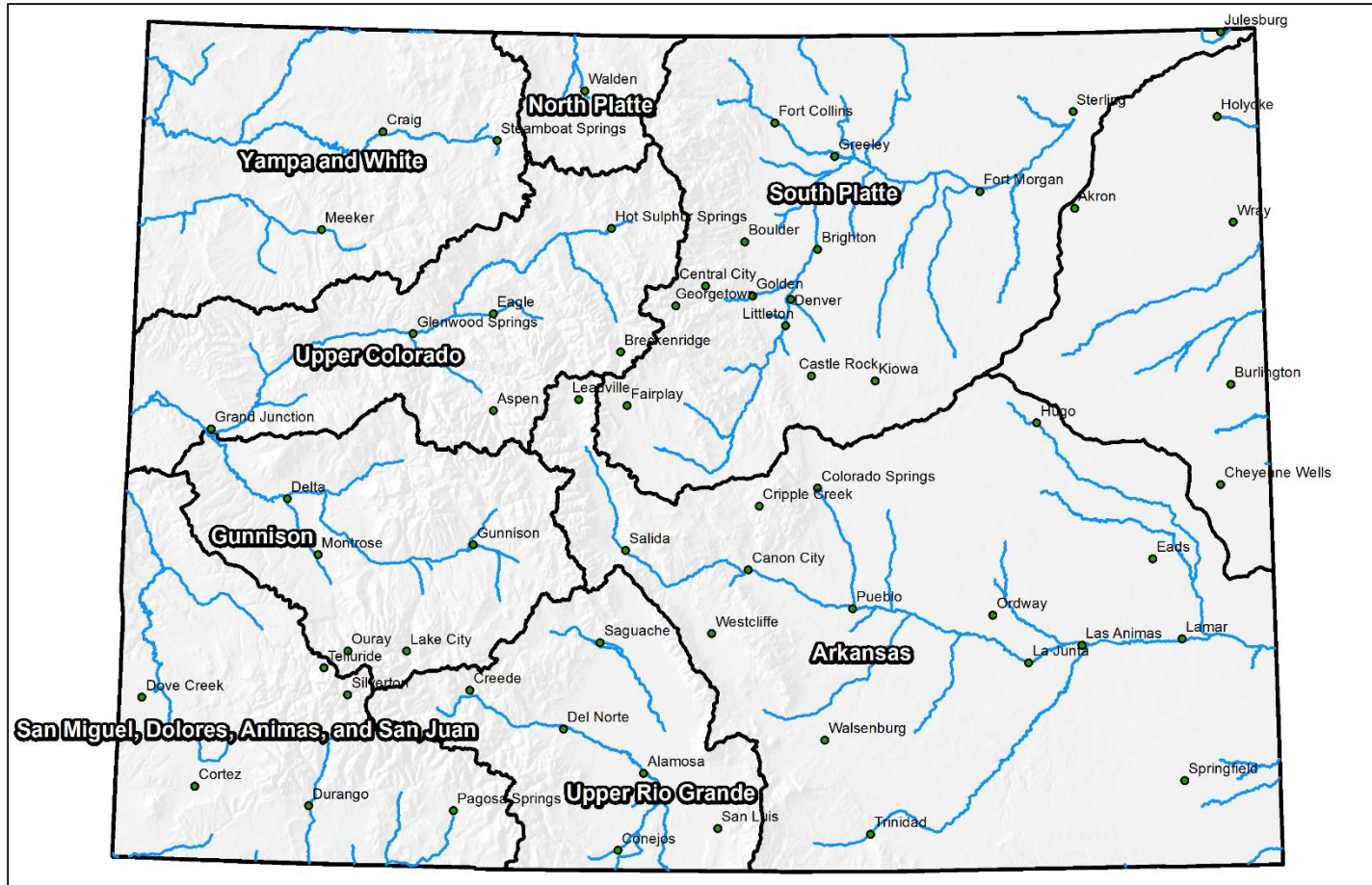
Arkansas Departure From Median Timeseries Plot





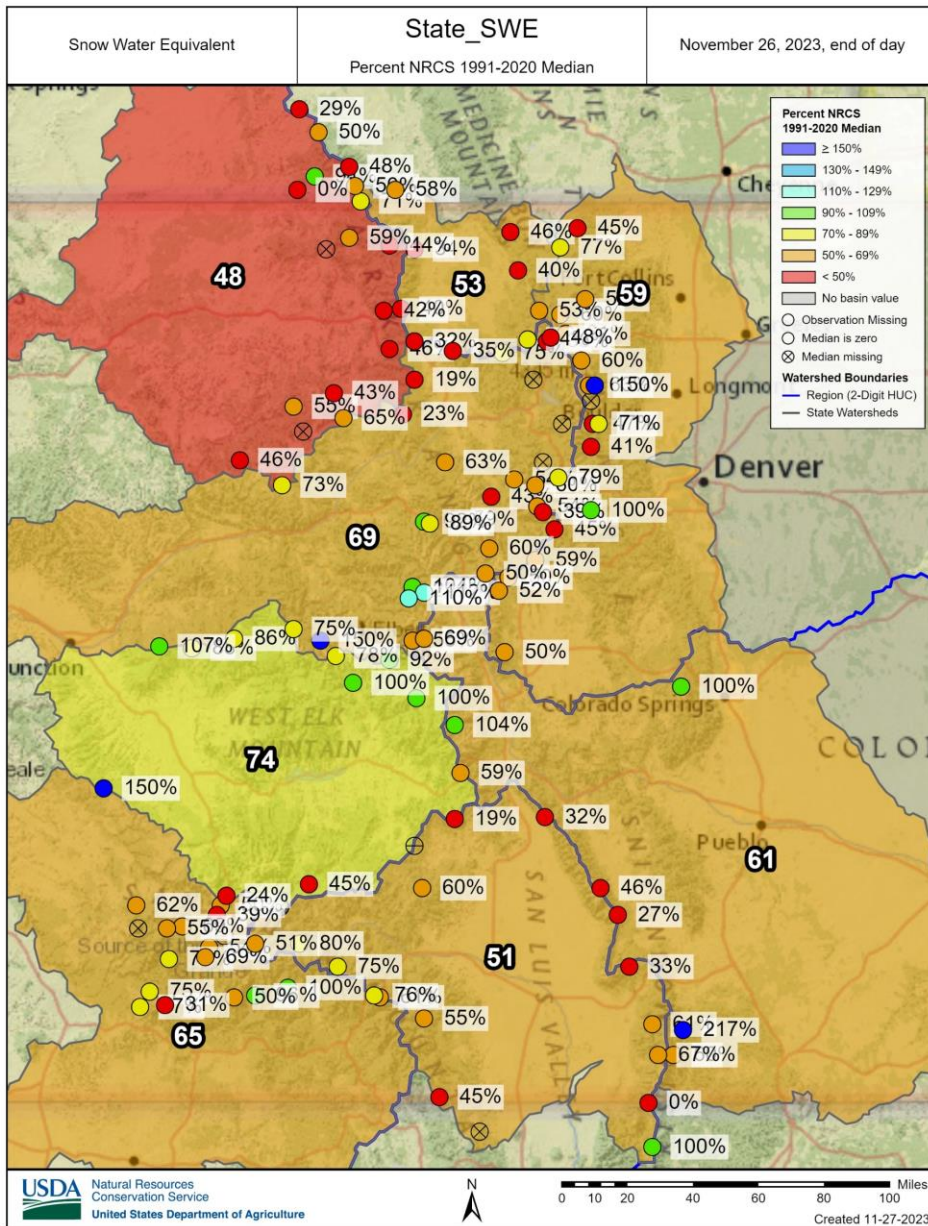
Colorado Statewide Summary

Colorado Major Basins



0 25 50 100 150 200 Miles

Statewide: 60% of median





Colorado Snow Surveys

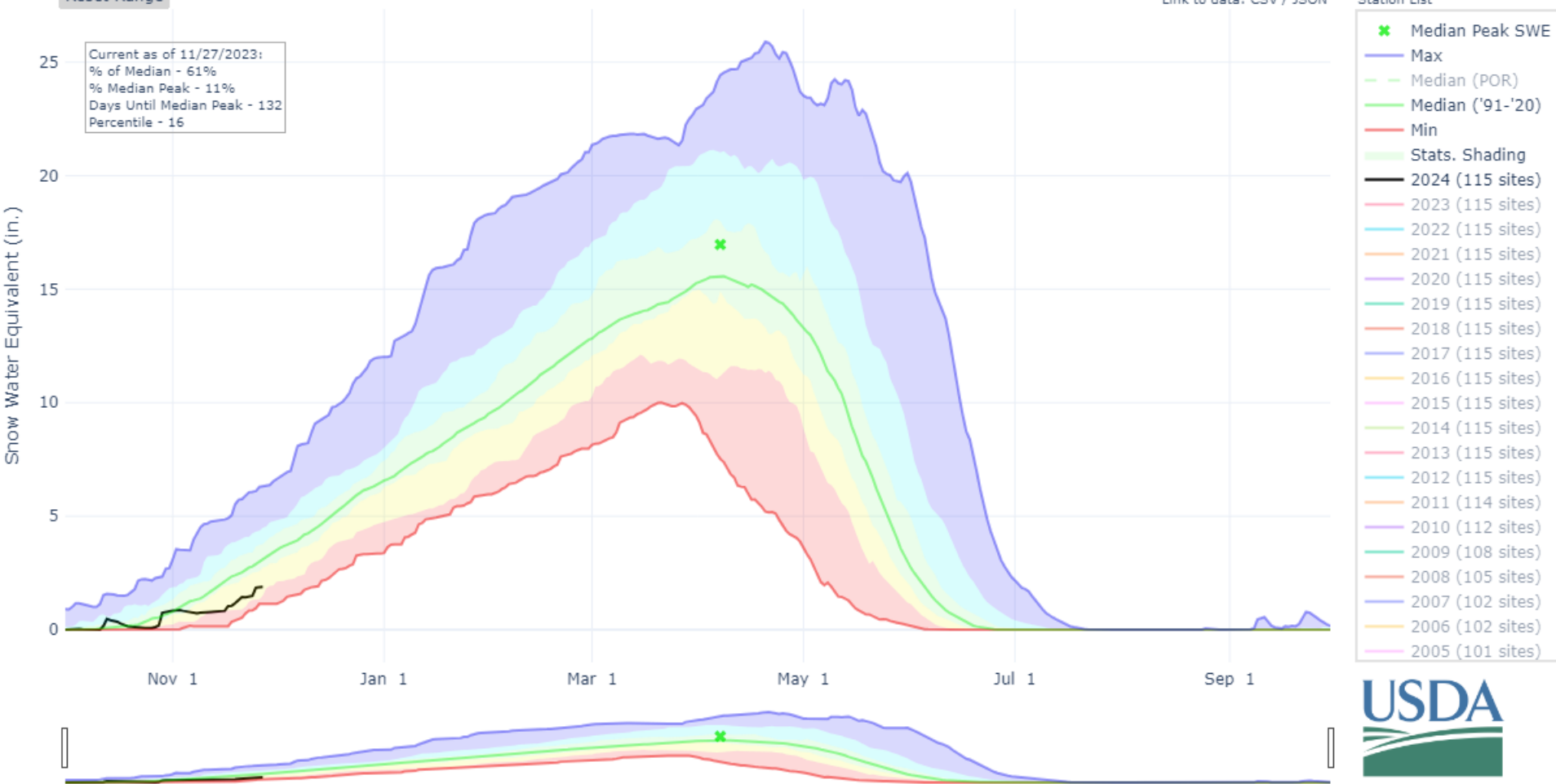
SNOW WATER EQUIVALENT IN STATE OF COLORADO

Reset Range

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

Station List

Current as of 11/27/2023:
% of Median - 61%
% Median Peak - 11%
Days Until Median Peak - 132
Percentile - 16



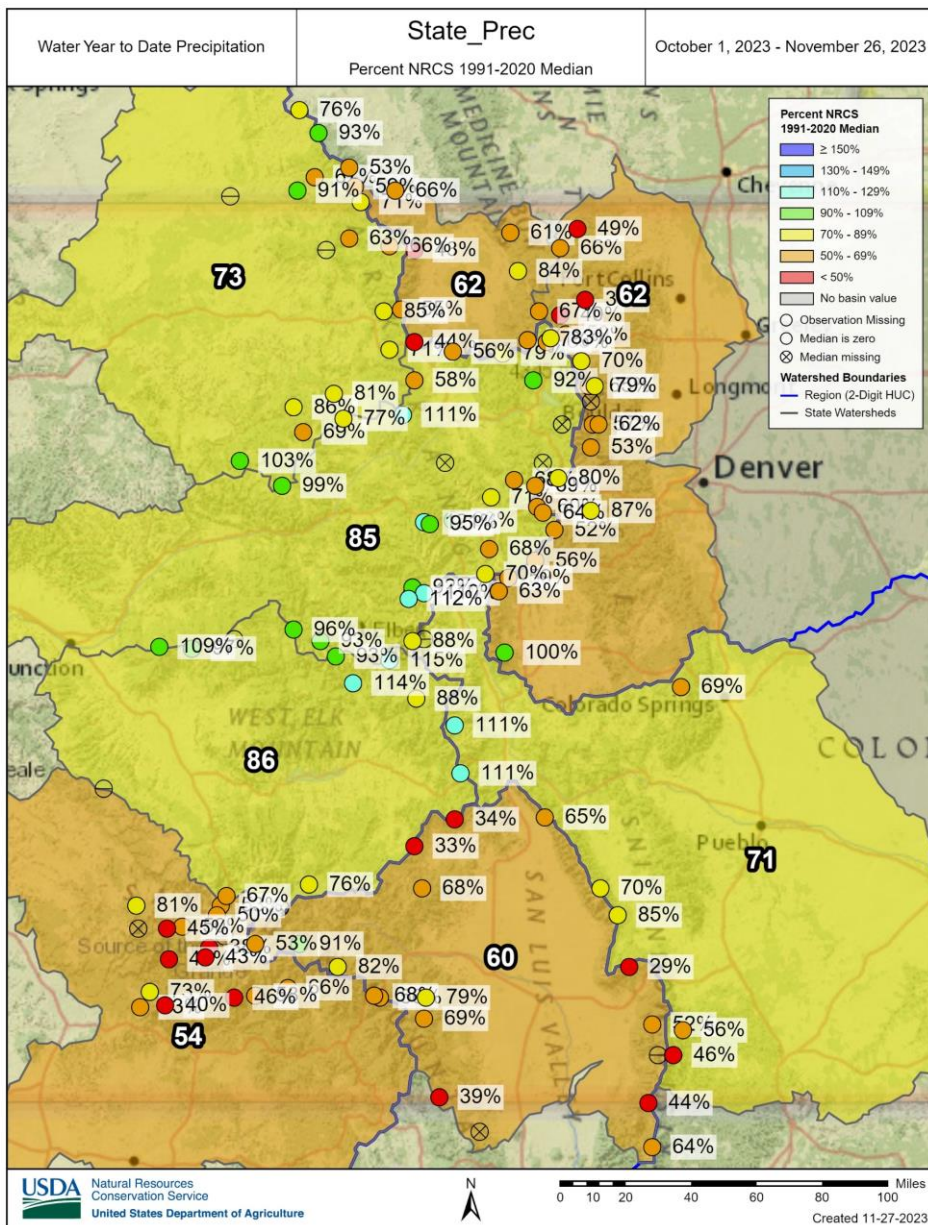


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Colorado Snow Surveys

Statewide: 70% of median

WY Precipitation

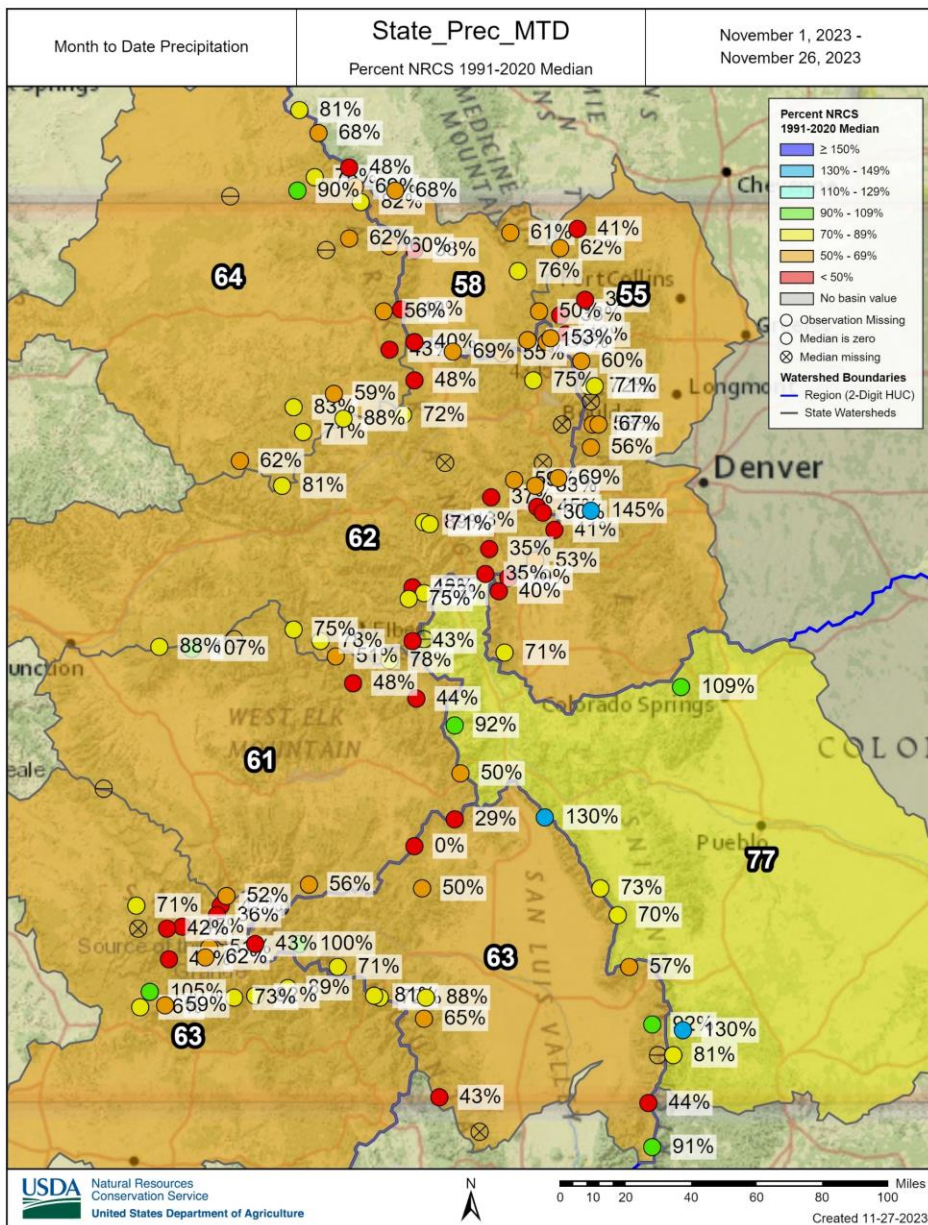




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Colorado Snow Surveys

MTD Precipitation





Colorado Snow Surveys

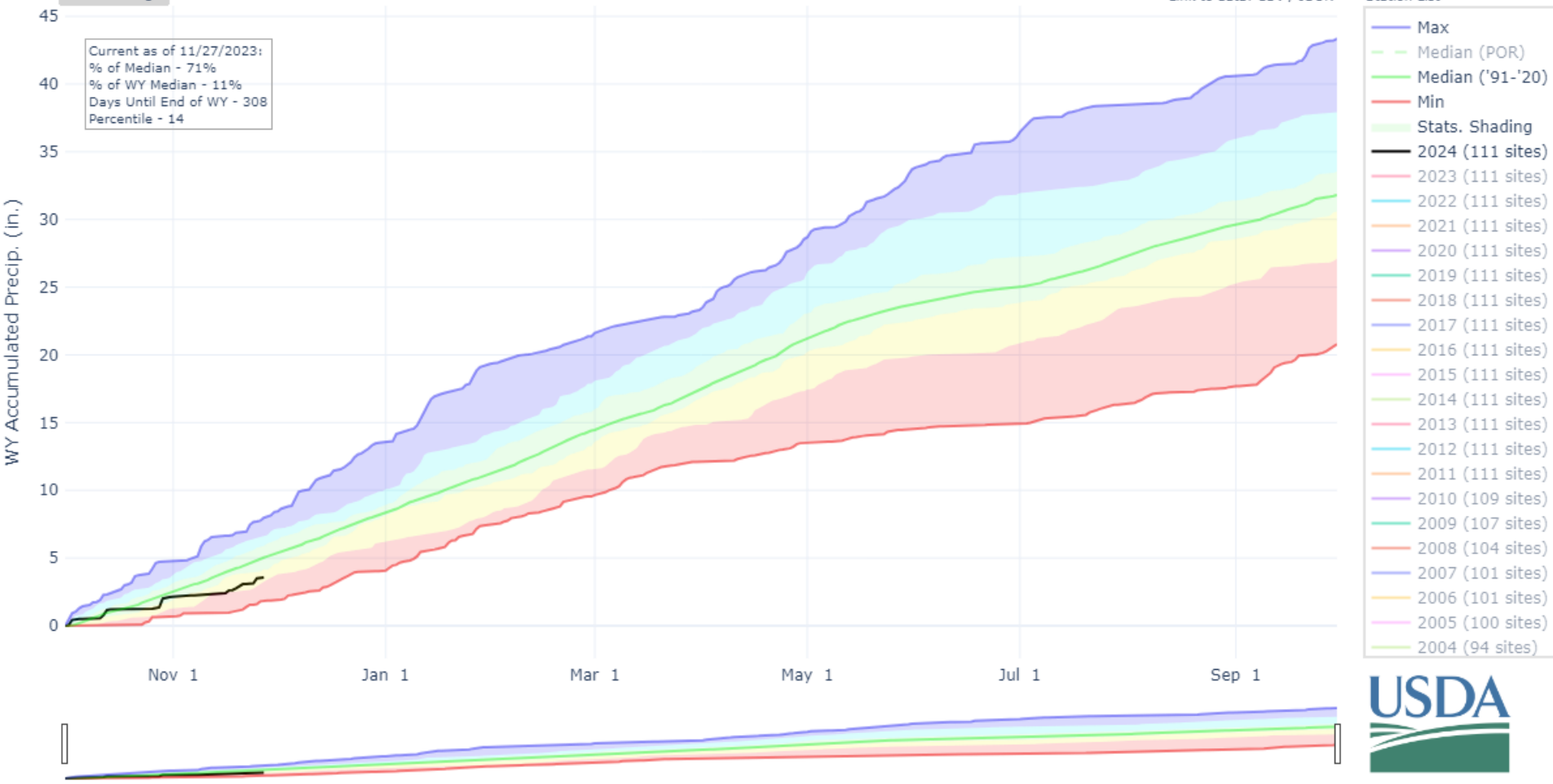
PRECIPITATION IN STATE OF COLORADO

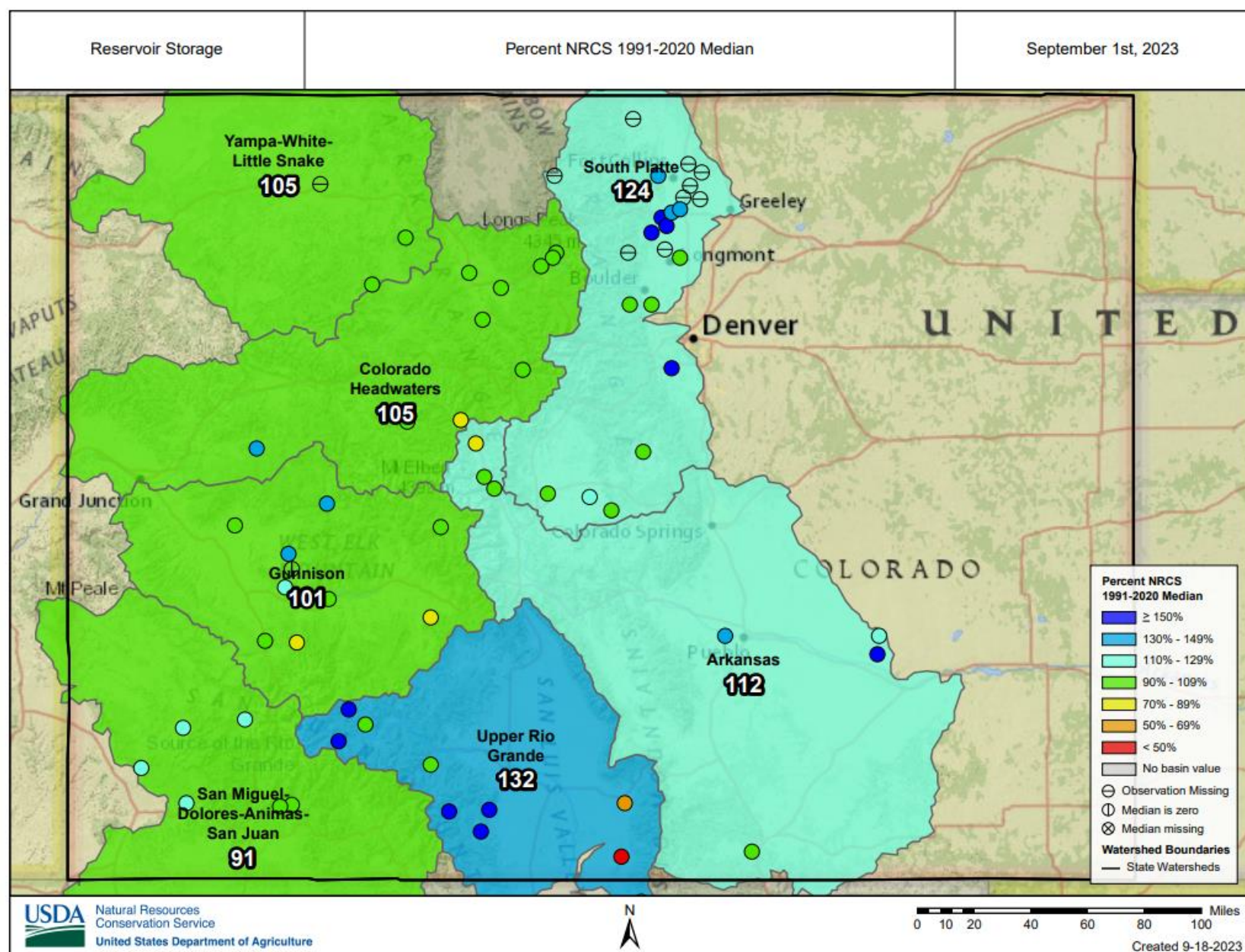
Reset Range

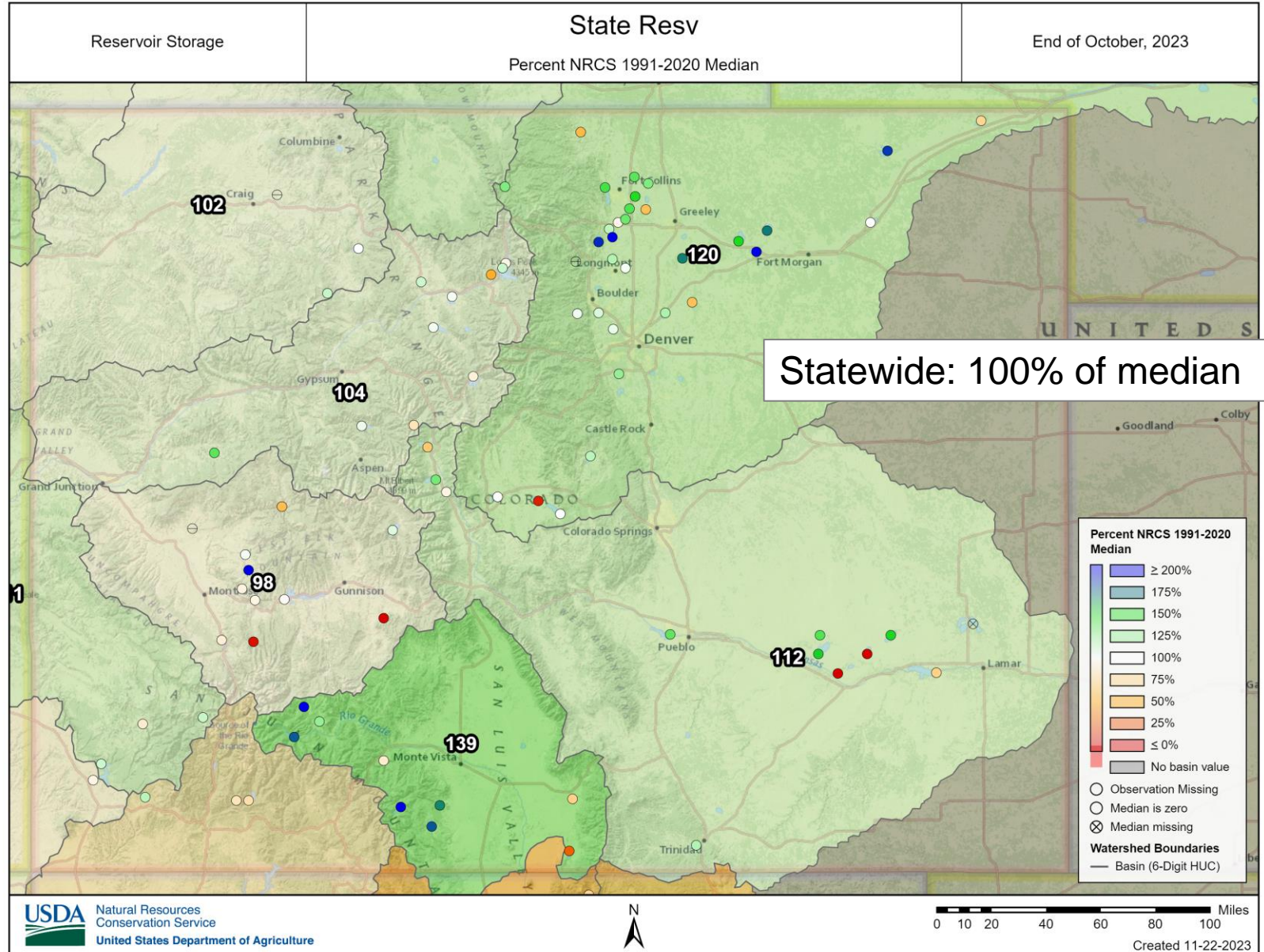
[Link to data: CSV / JSON](#)

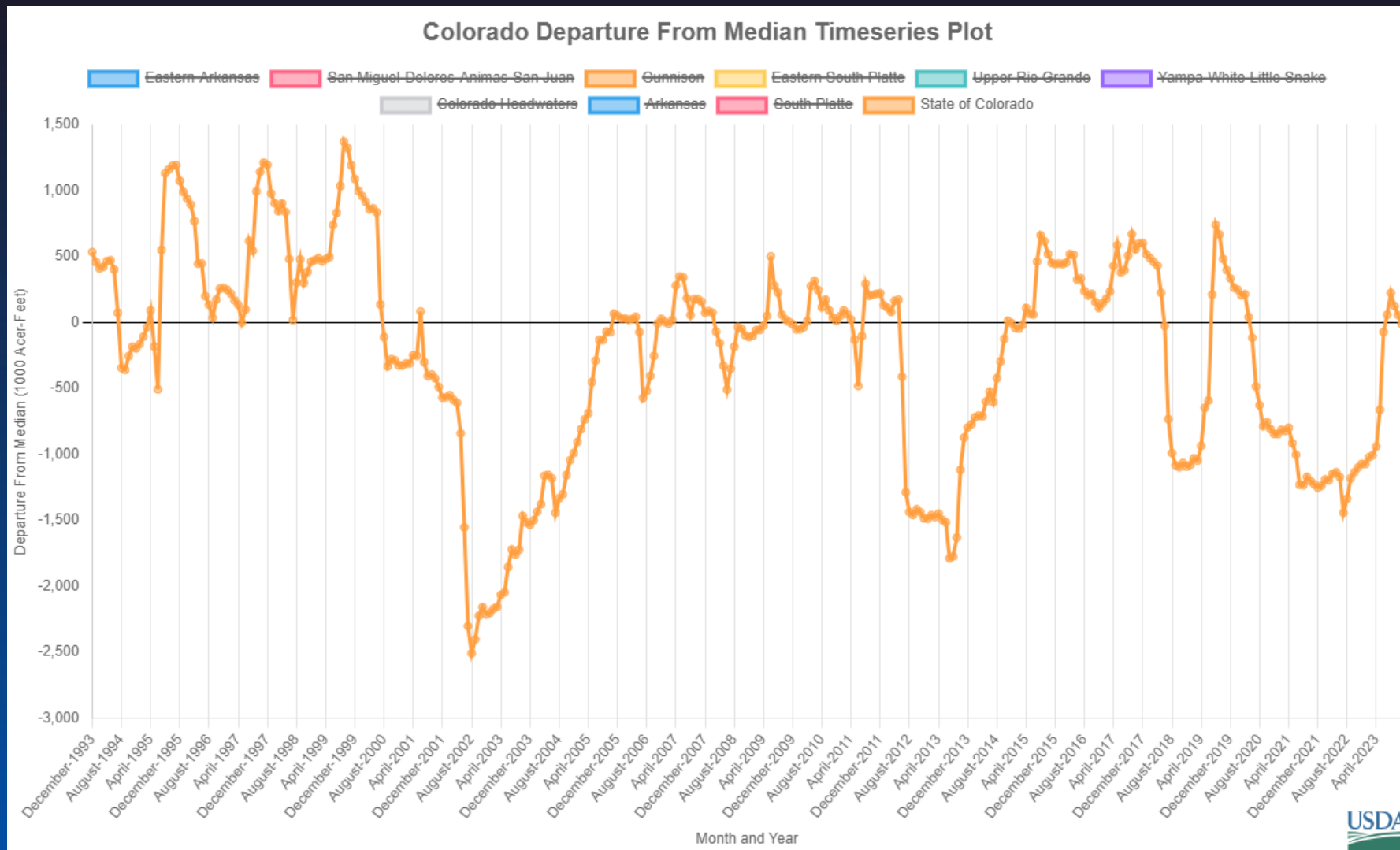
Station List

Current as of 11/27/2023:
% of Median - 71%
% of WY Median - 11%
Days Until End of WY - 308
Percentile - 14

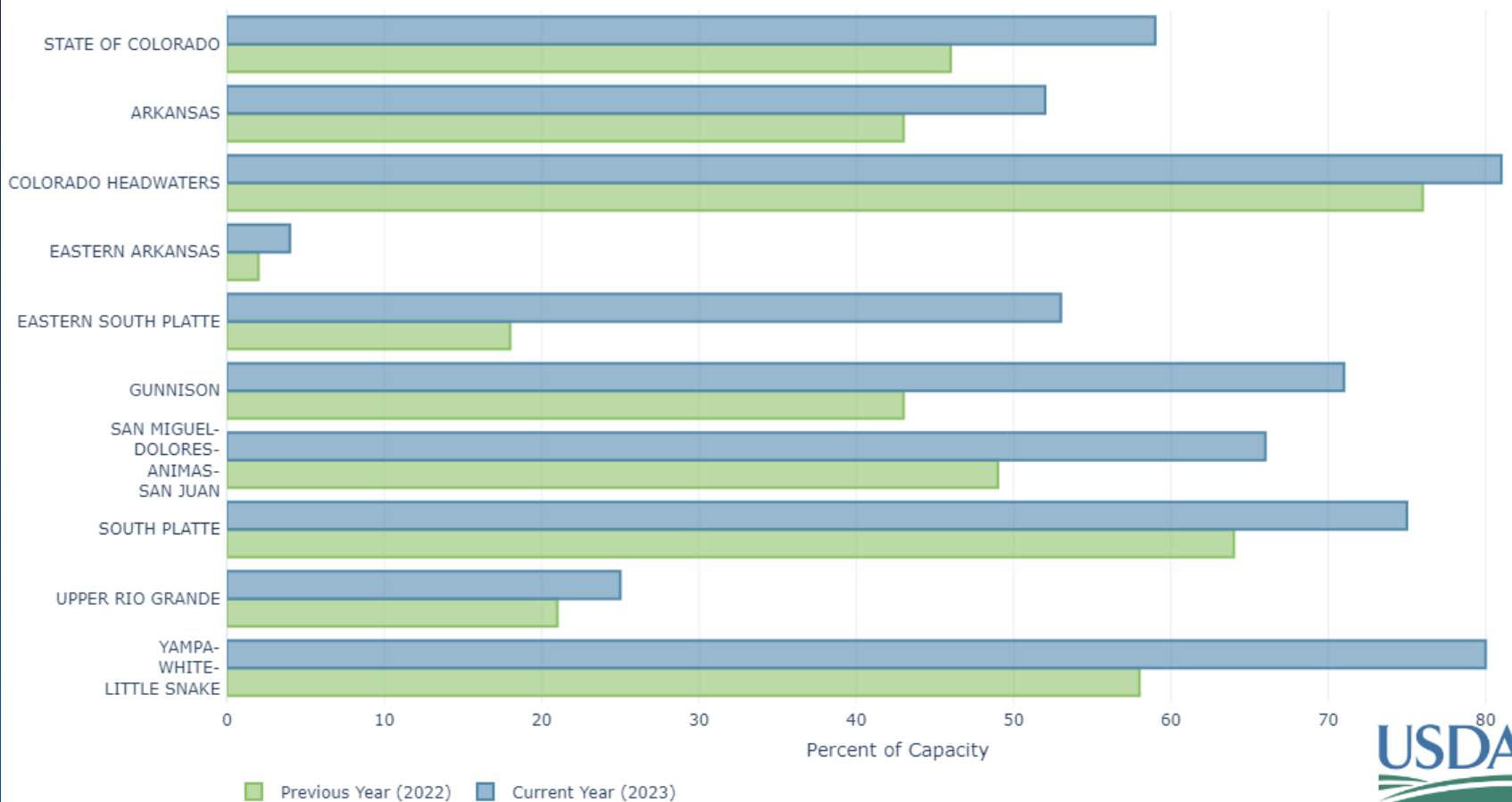




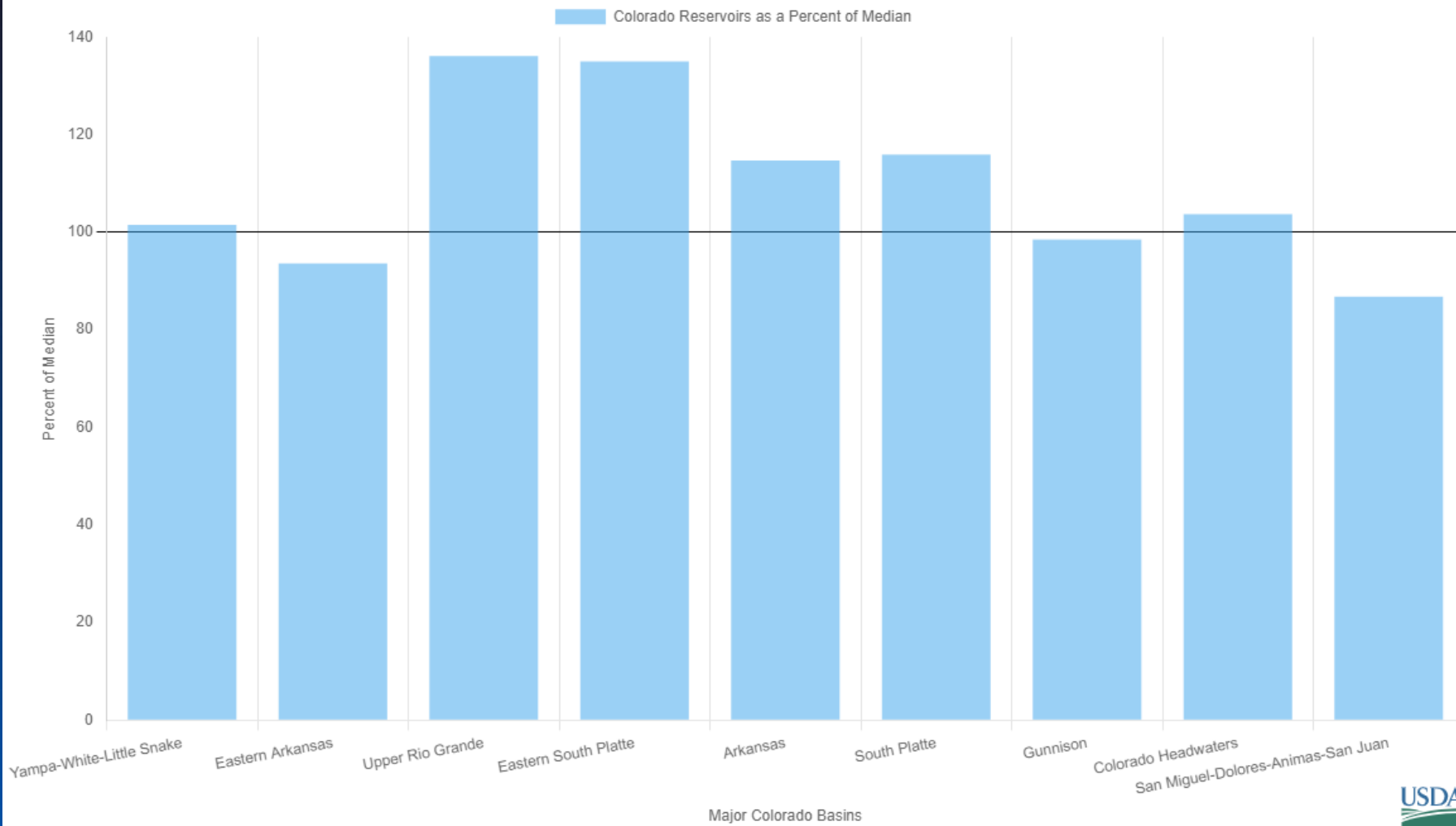


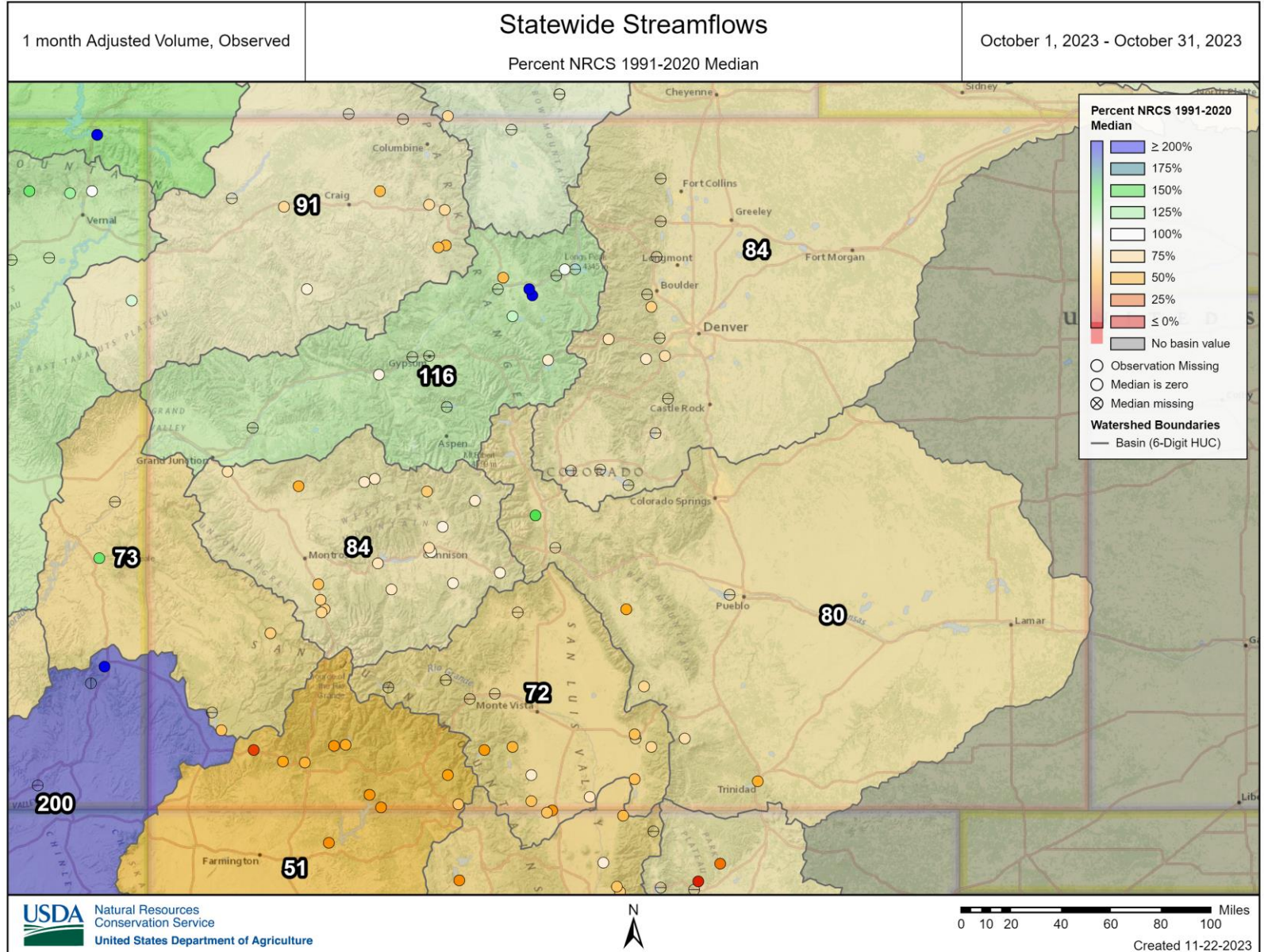


RESERVOIR STORAGE IN COLORADO
END OF OCTOBER 2023



Colorado Reservoir Storage Summary for November 1st 2023





Summary

- Statewide snowpack is 60% of median. Ranging from 48% in the Yampa-White to 79% in the Gunnison.
- In a normal year Colorado is typically accumulated about 20% of it's median annual peak snowpack. Currently we are only at 11% of the annual snowpack peak.
- Statewide precipitation is 70% of median. Ranging from 54% in the SMDASJ to 86% in the Gunnison.
- Statewide reservoir storage is right at normal at 100% of average.



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