



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

August 16th, 2022

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

Hydrologist

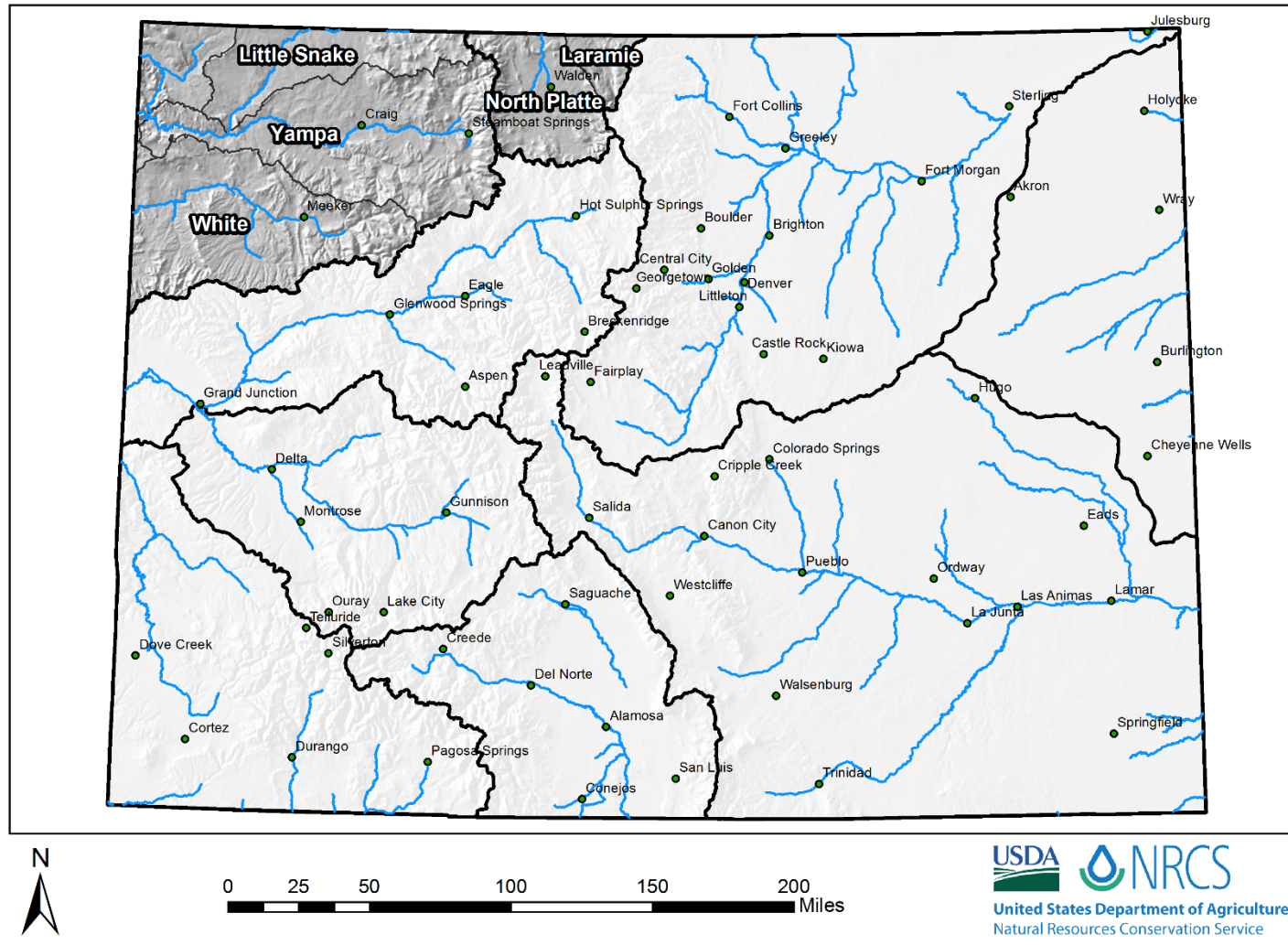
Asst. Snow Survey Supervisor

720-544-2852

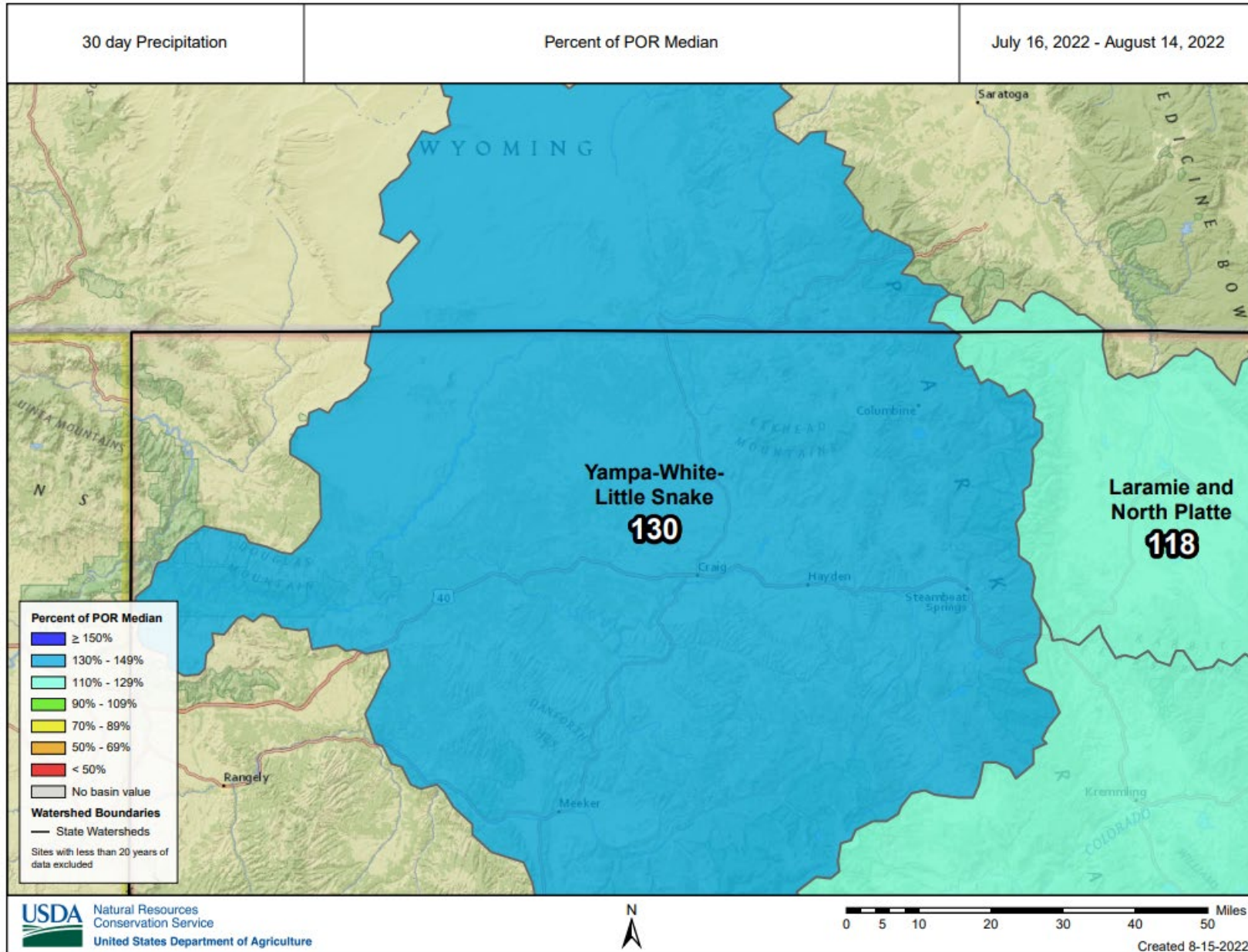
<http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/>

Major Basin Summary

Yampa, White, and North Platte River Basins



Colorado Snow Surveys





Colorado Snow Surveys

PRECIPITATION IN YAMPA-WHITE-LITTLE SNAKE

Reset Range

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

[Station List](#)

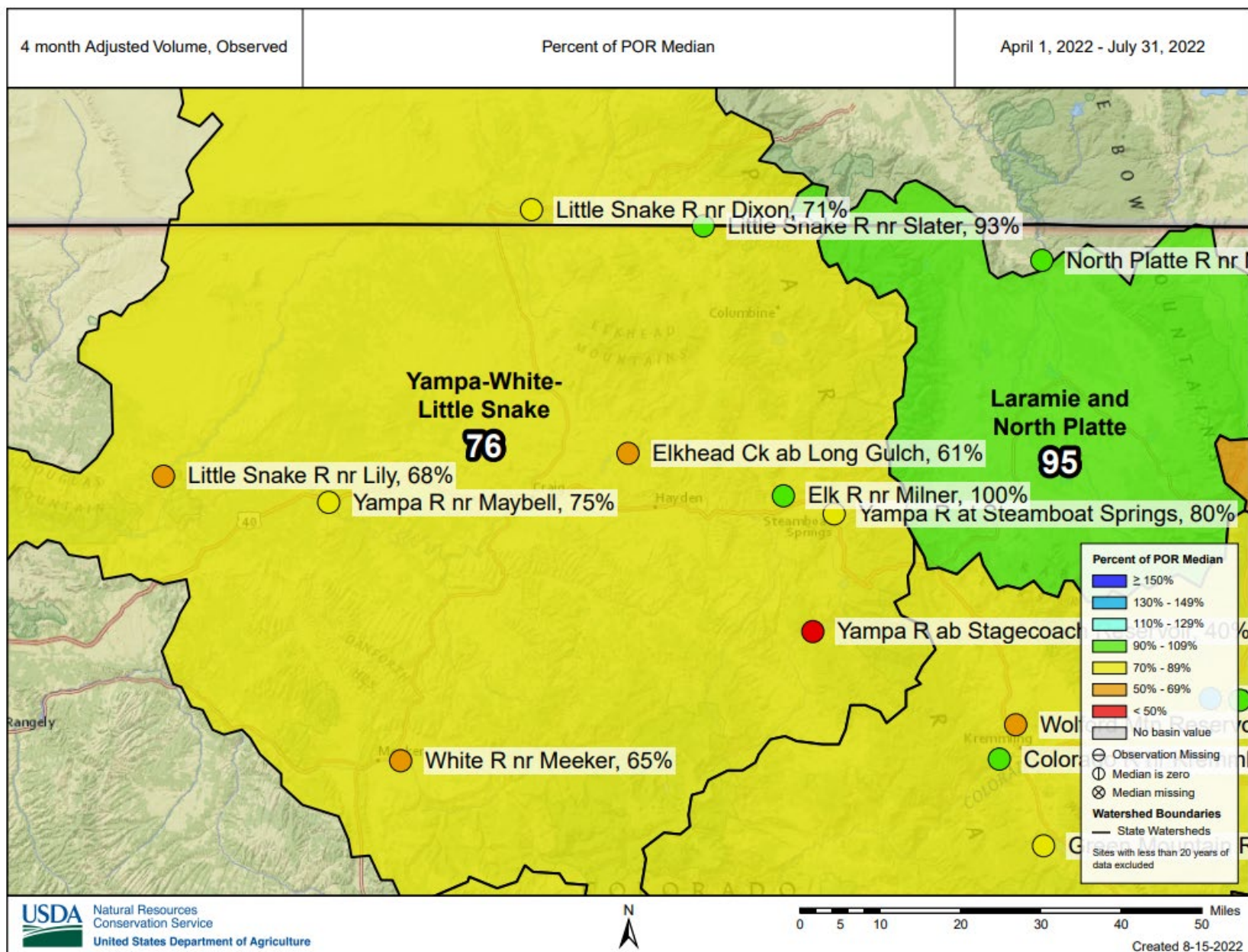
Current as of 08/15/2022:
% of Median - 100%
% of WY Median - 92%
Days Until End of WY - 46
Percentile - 47

- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 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 (21 sites)
- 2009 (21 sites)
- 2008 (21 sites)
- 2007 (21 sites)
- 2006 (21 sites)
- 2005 (21 sites)
- 2004 (19 sites)
- 2003 (19 sites)

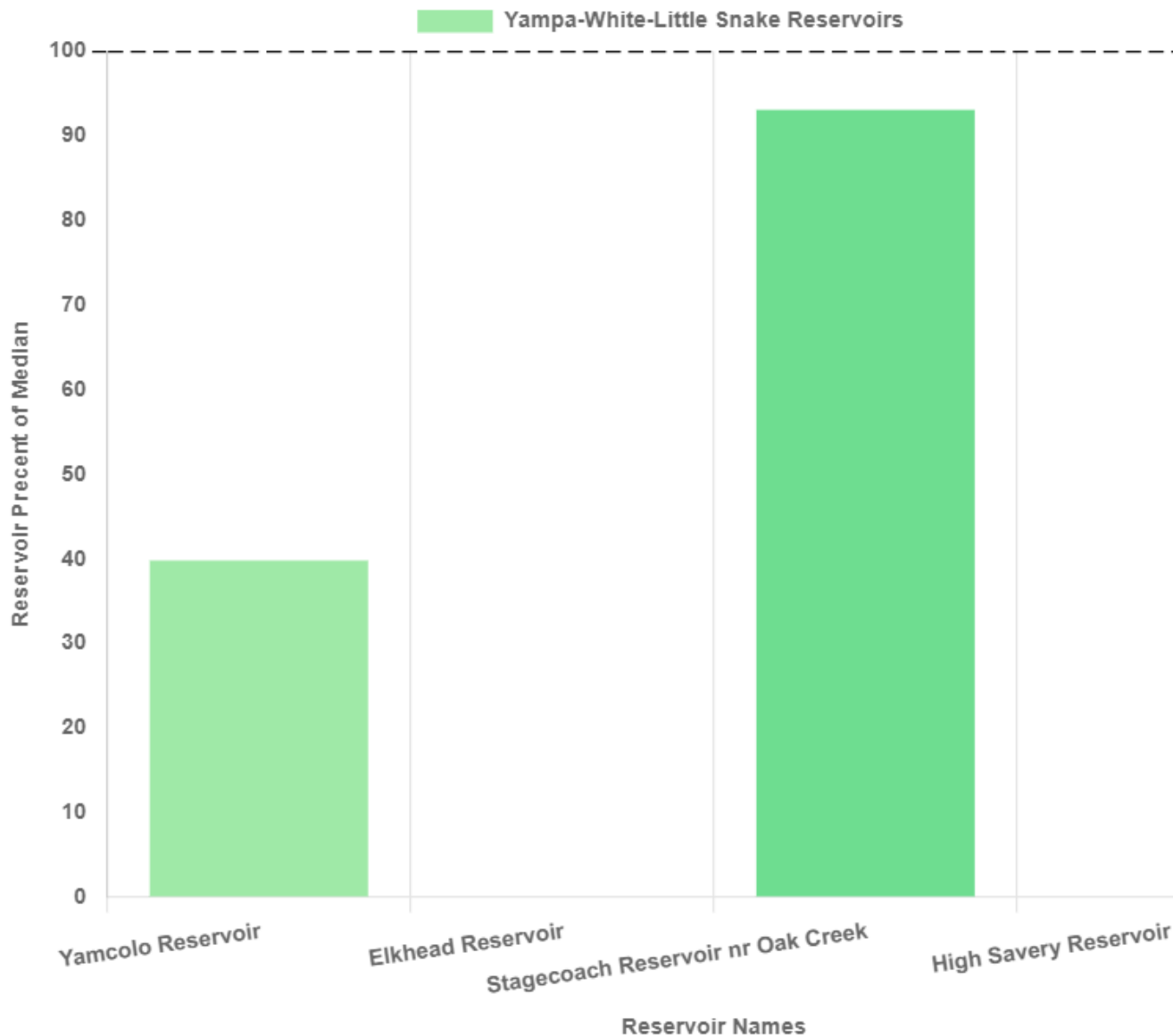


[Feedback](#)

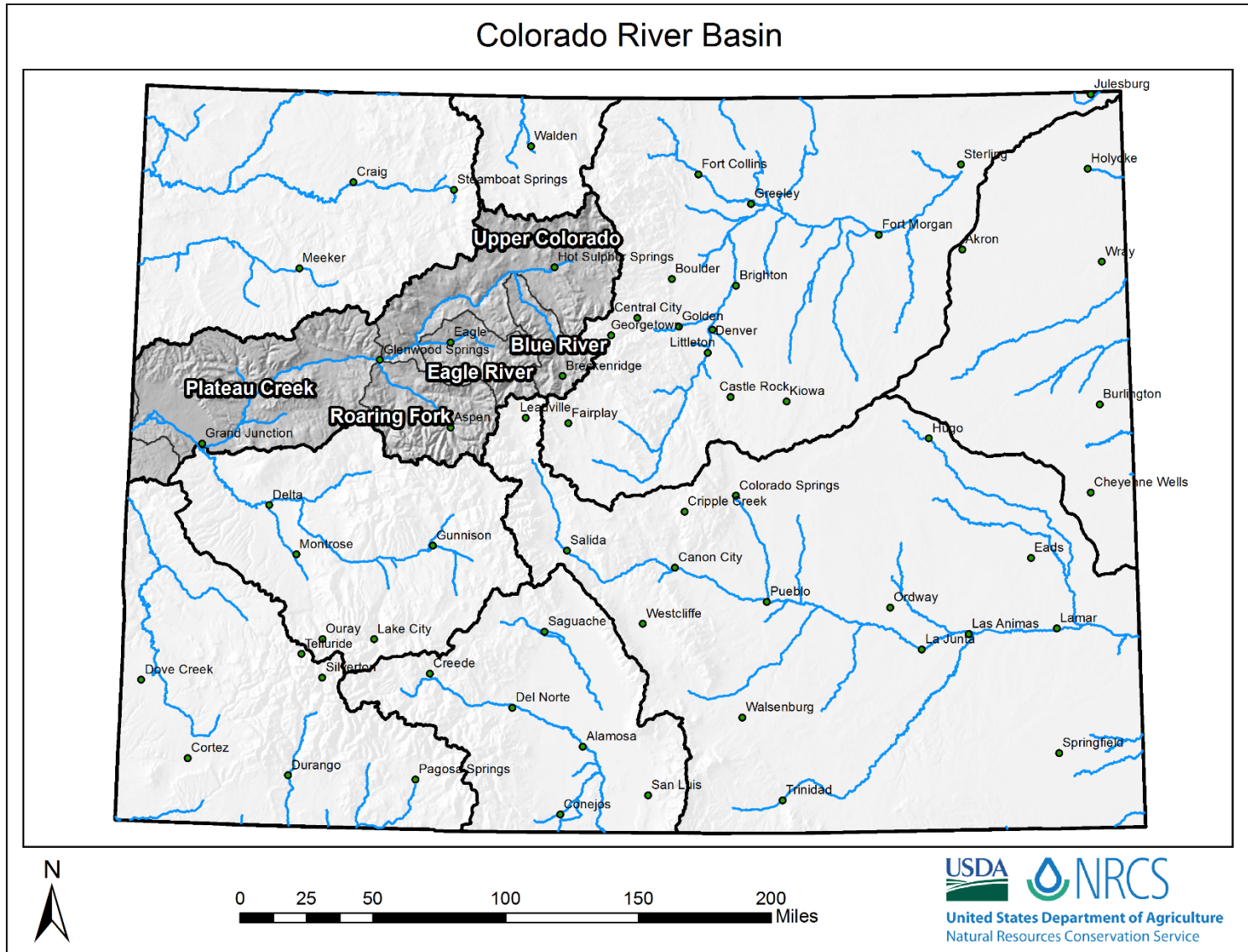
Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles
For more information visit: [30-Year Hydroclimatic Normals](#)



Reservoir Conditions for Yampa-White-Little Snake on August 1st 2022



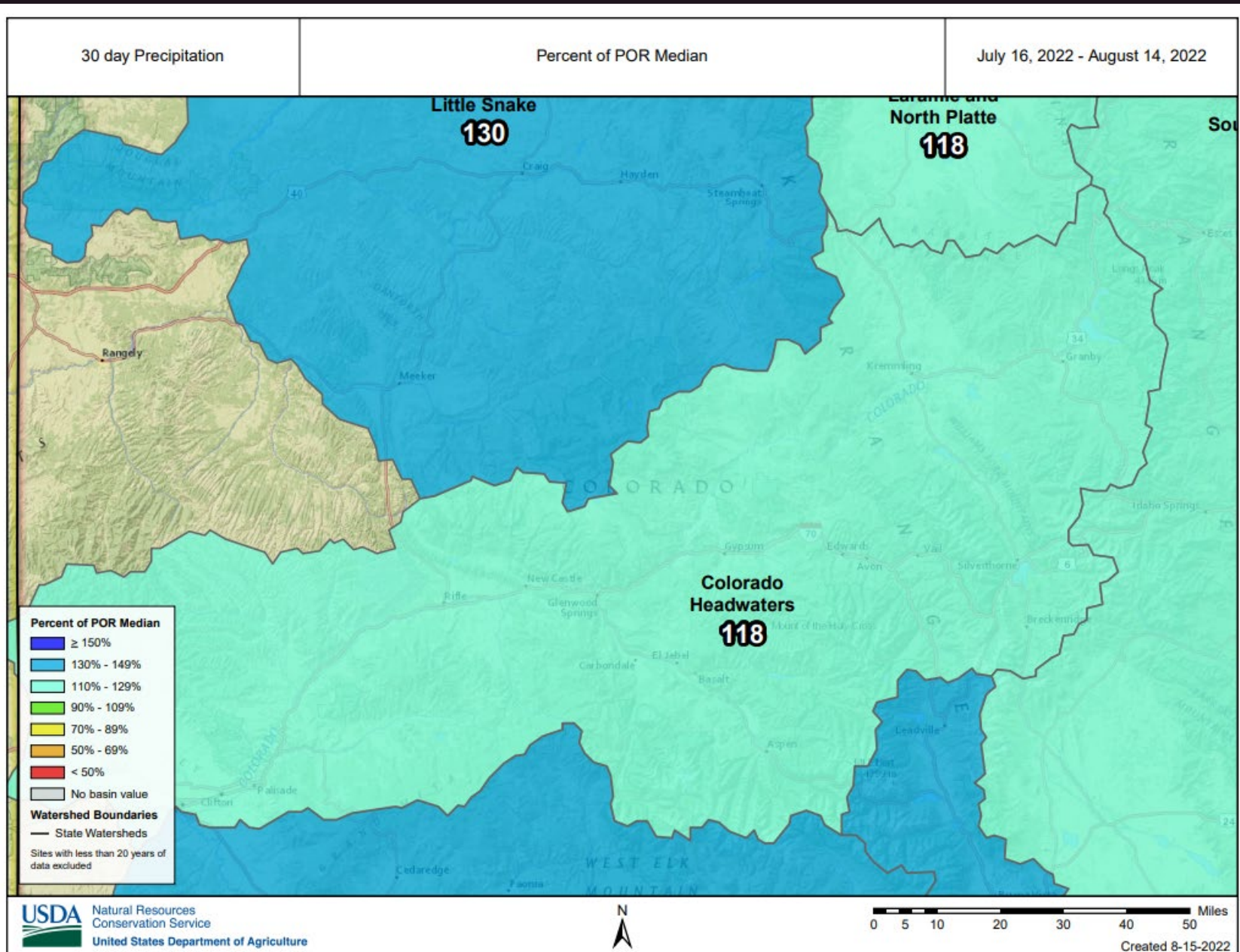
Major Basin Summary





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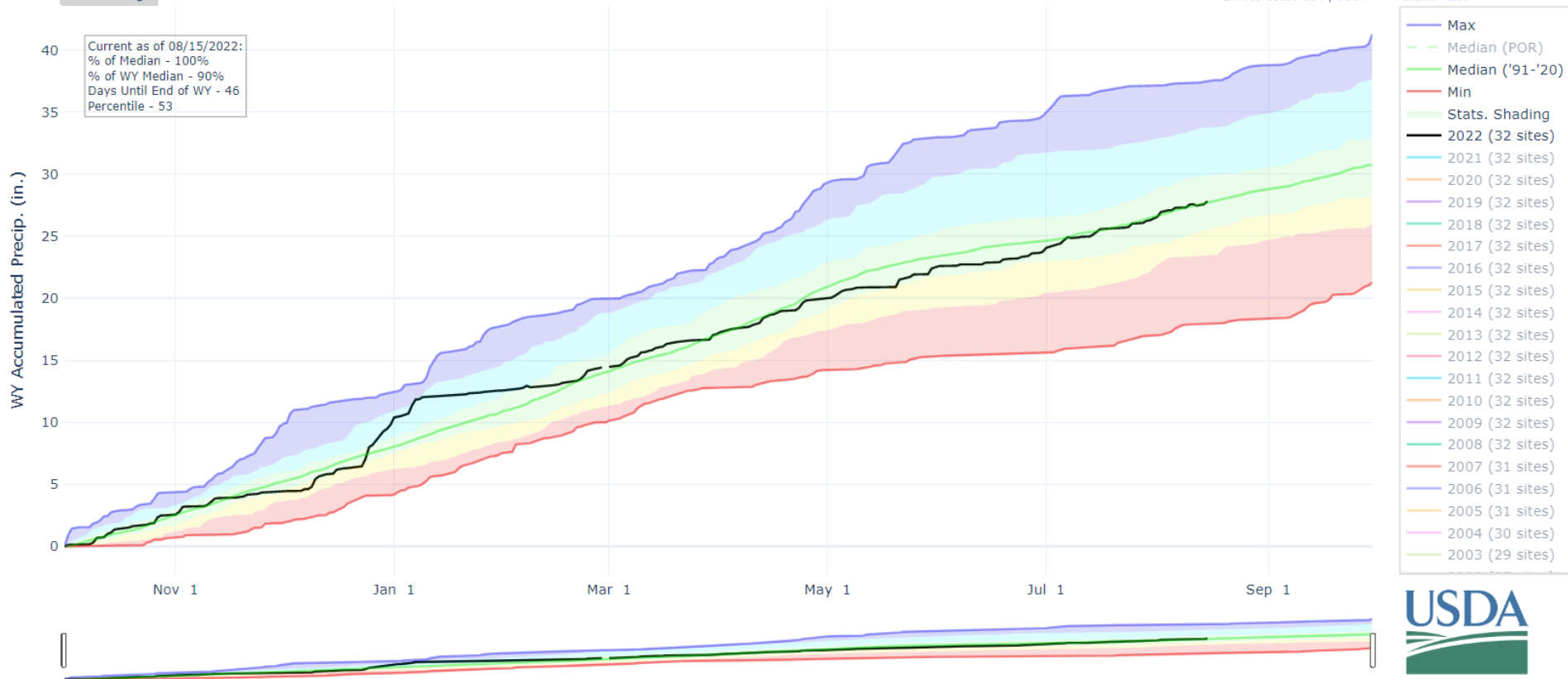
Colorado Snow Surveys

PRECIPITATION IN COLORADO HEADWATERS

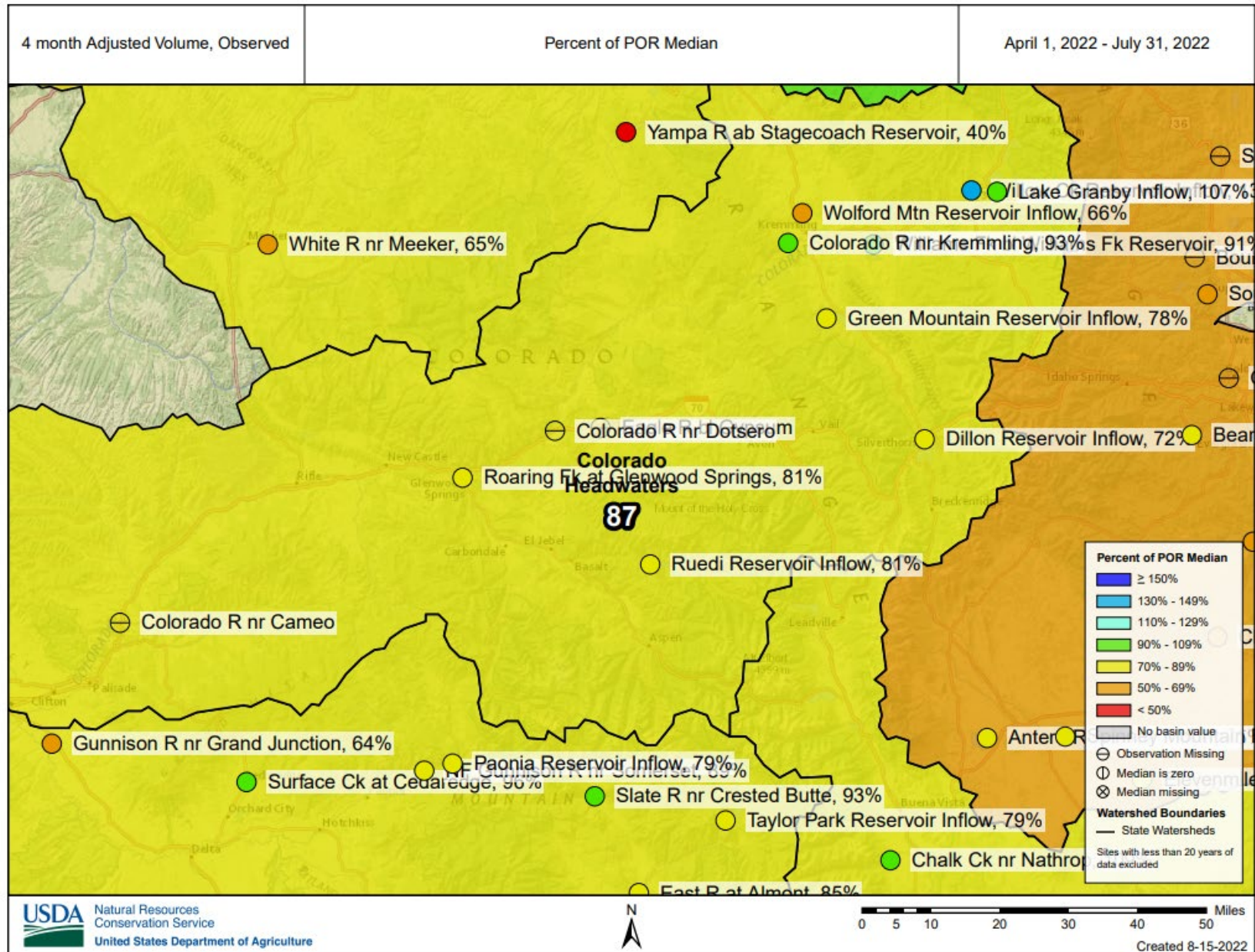
Reset Range

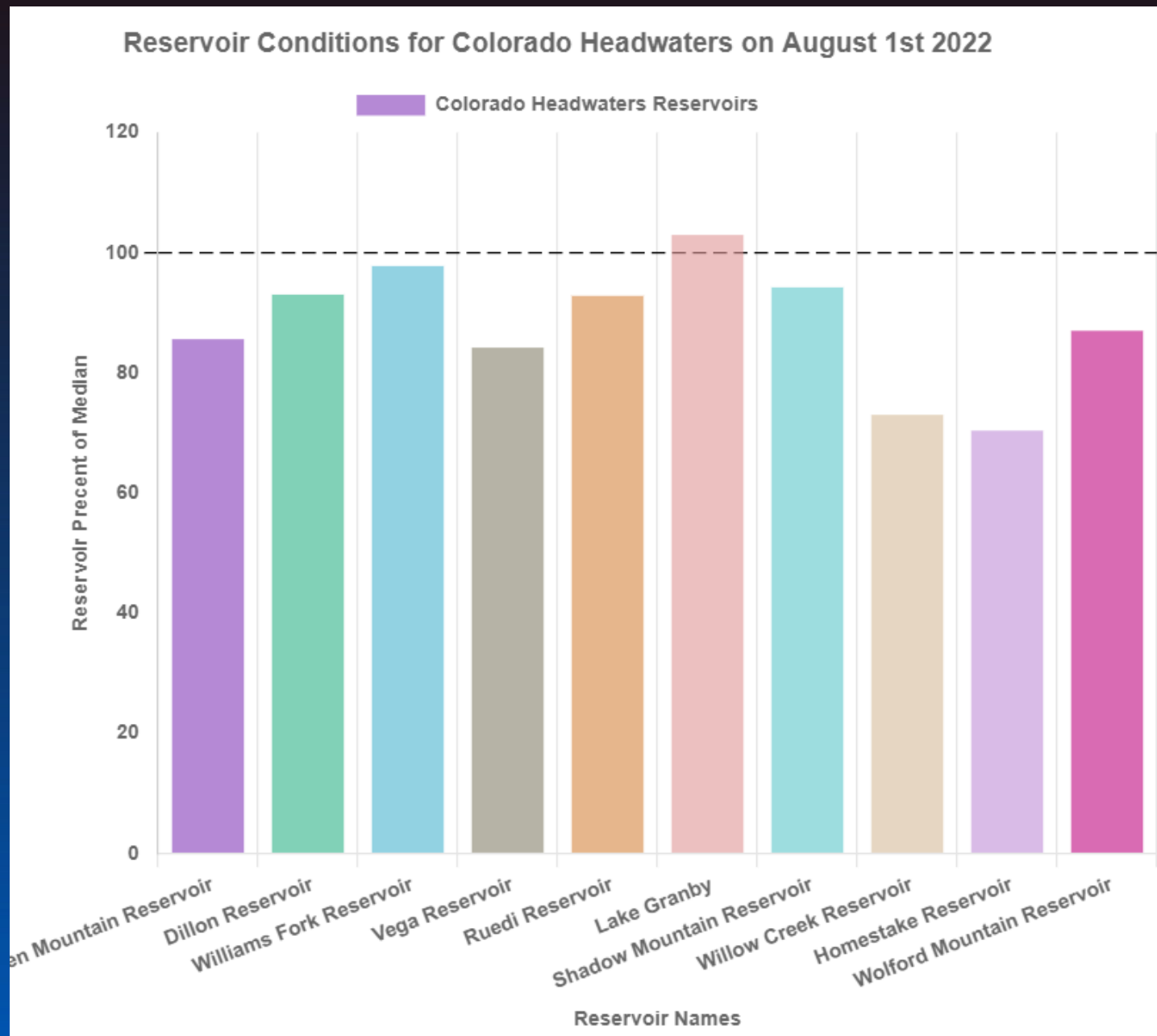
Link to data: CSV / JSON

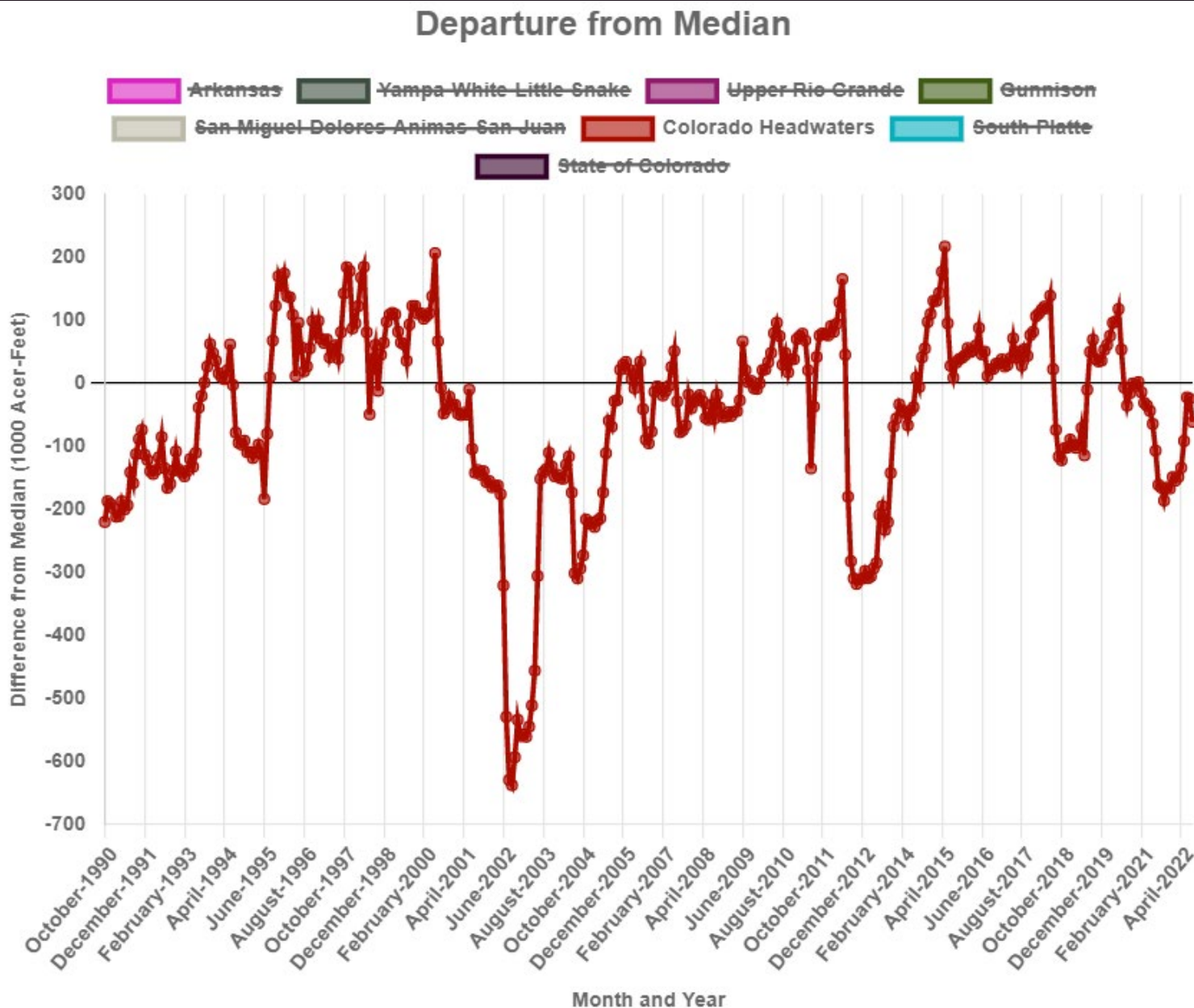
Station List



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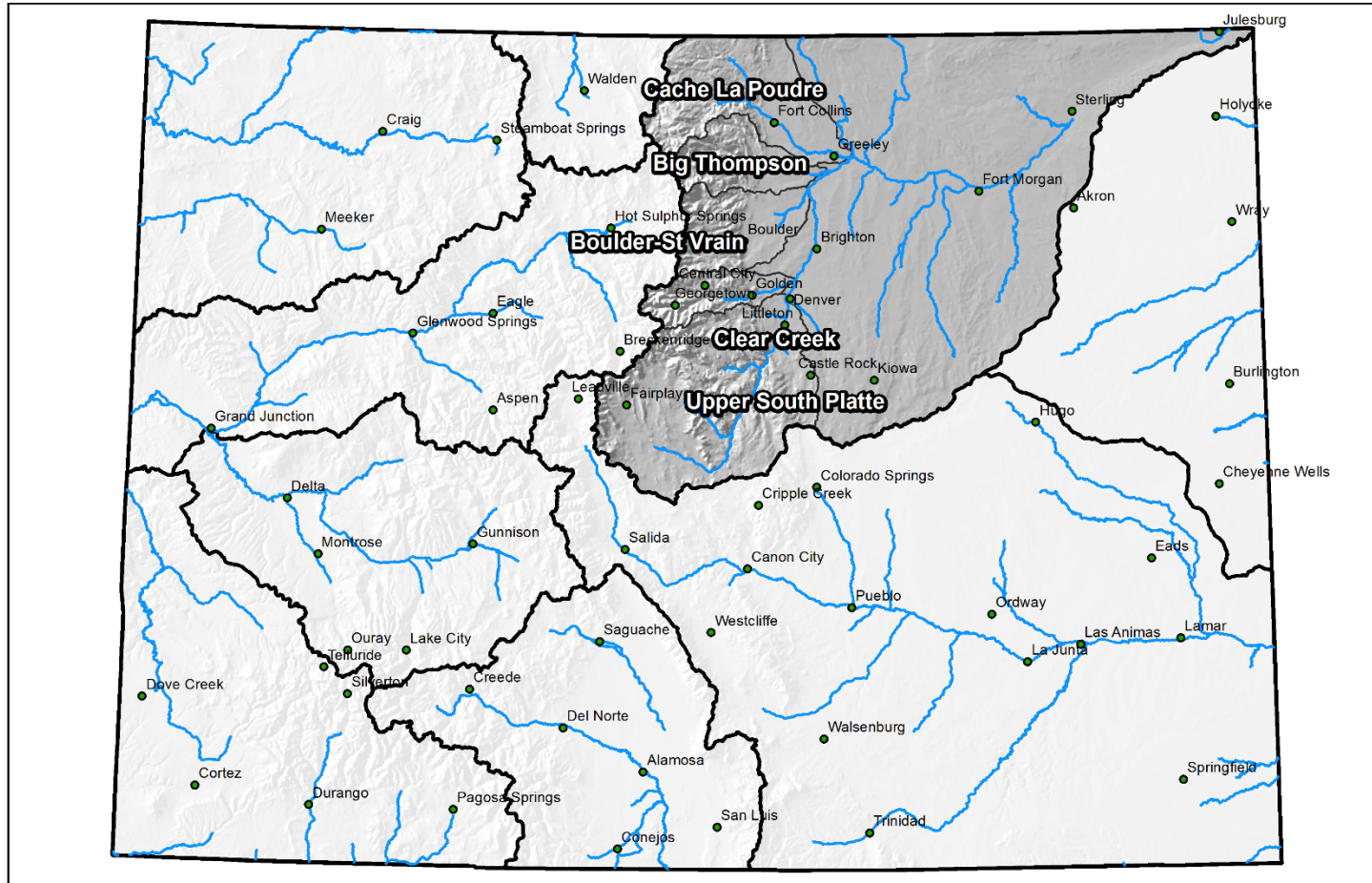




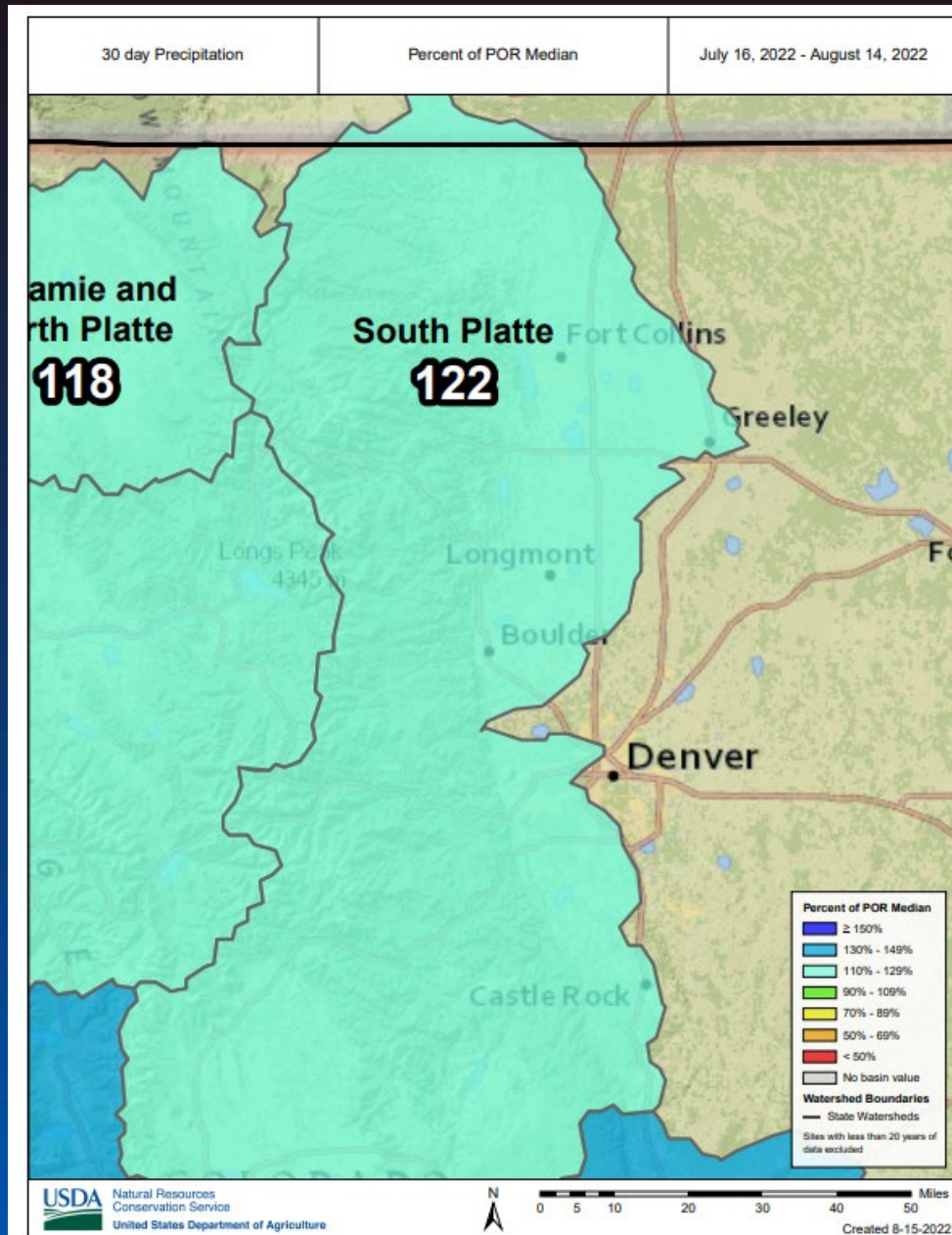


Major Basin Summary

South Platte River Basin



0 25 50 100 150 200 Miles





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****Please note that the drop in data over the last week is an artifact of SNOTEL maintenance which will be resolved shortly**

PRECIPITATION IN SOUTH PLATTE

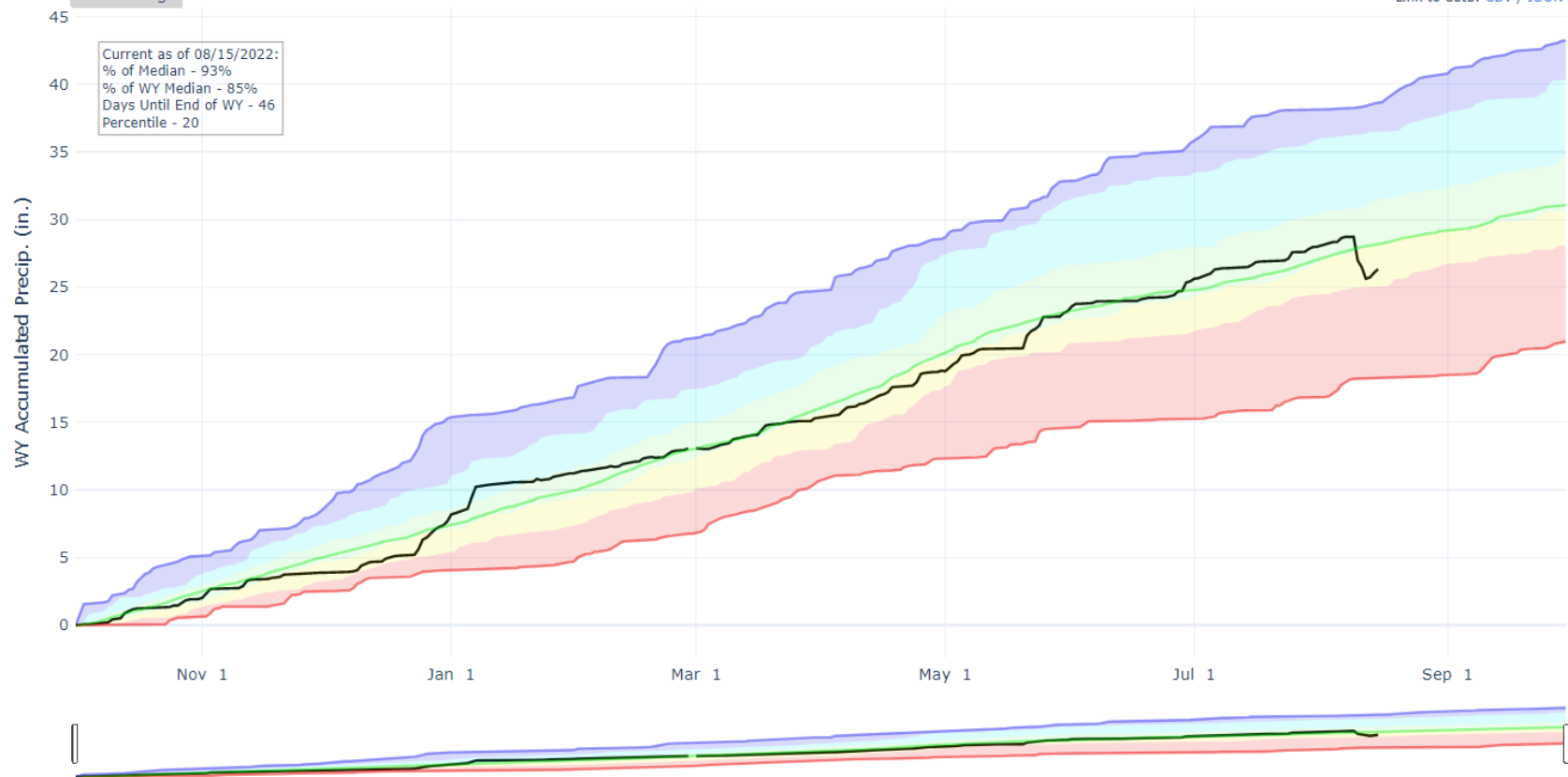
Reset Range

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

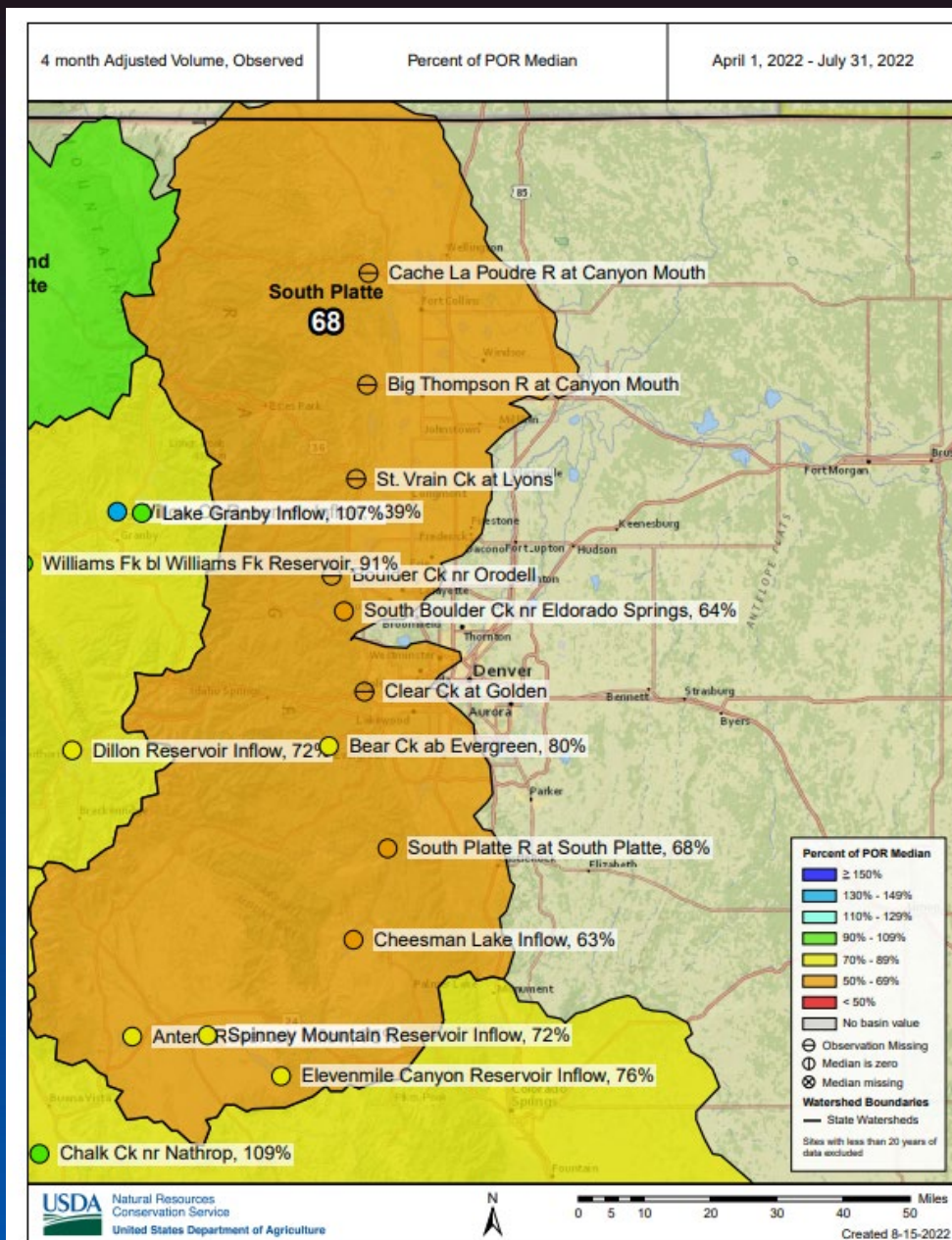
Station List

Current as of 08/15/2022:
% of Median - 93%
% of WY Median - 85%
Days Until End of WY - 46
Percentile - 20

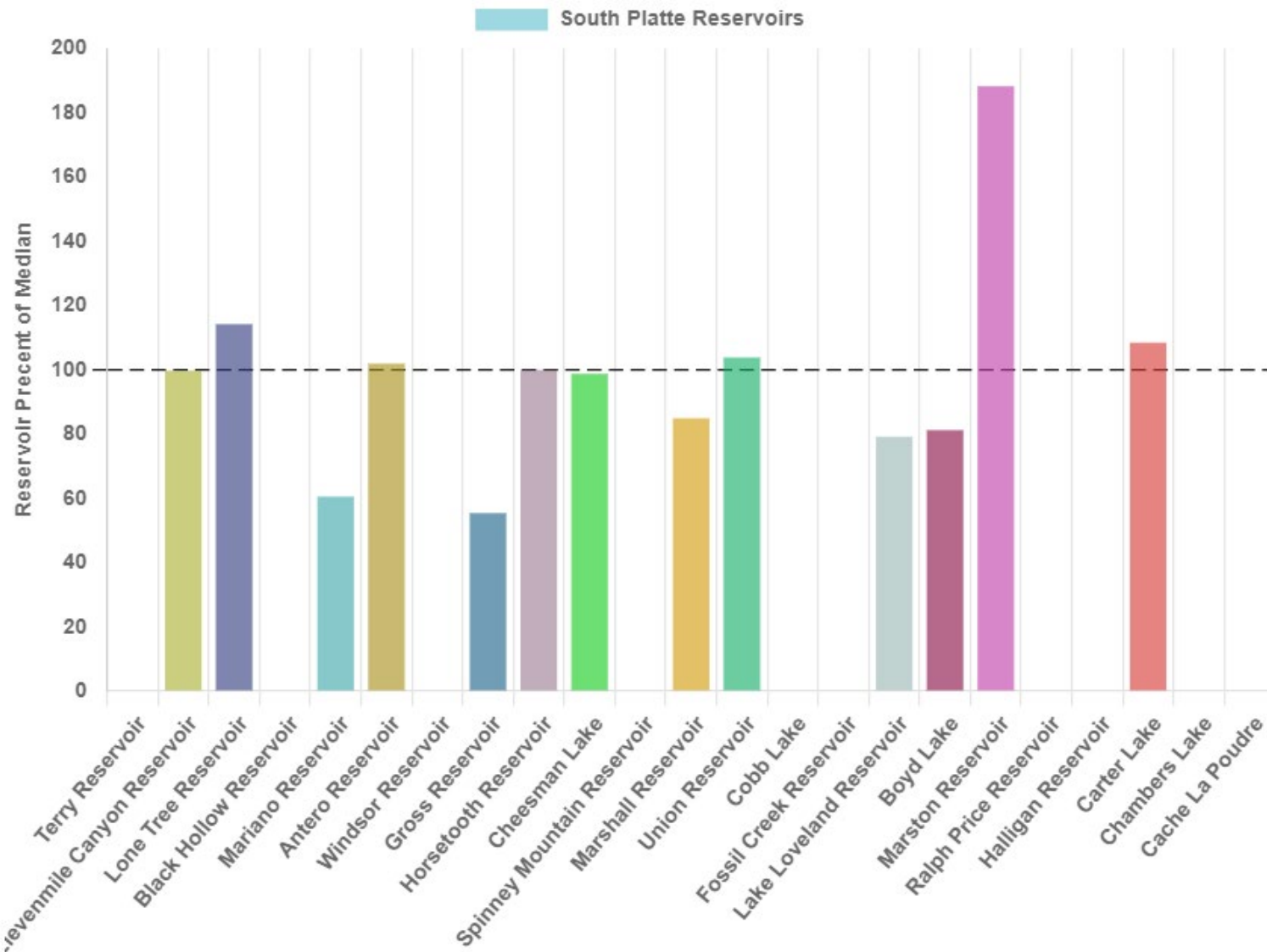
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2022 (20 sites)
- 2021 (21 sites)
- 2020 (21 sites)
- 2019 (21 sites)
- 2018 (21 sites)
- 2017 (21 sites)
- 2016 (21 sites)
- 2015 (21 sites)
- 2014 (21 sites)
- 2013 (21 sites)
- 2012 (21 sites)
- 2011 (21 sites)
- 2010 (20 sites)
- 2009 (19 sites)
- 2008 (18 sites)
- 2007 (18 sites)
- 2006 (18 sites)
- 2005 (17 sites)
- 2004 (17 sites)
- 2003 (17 sites)



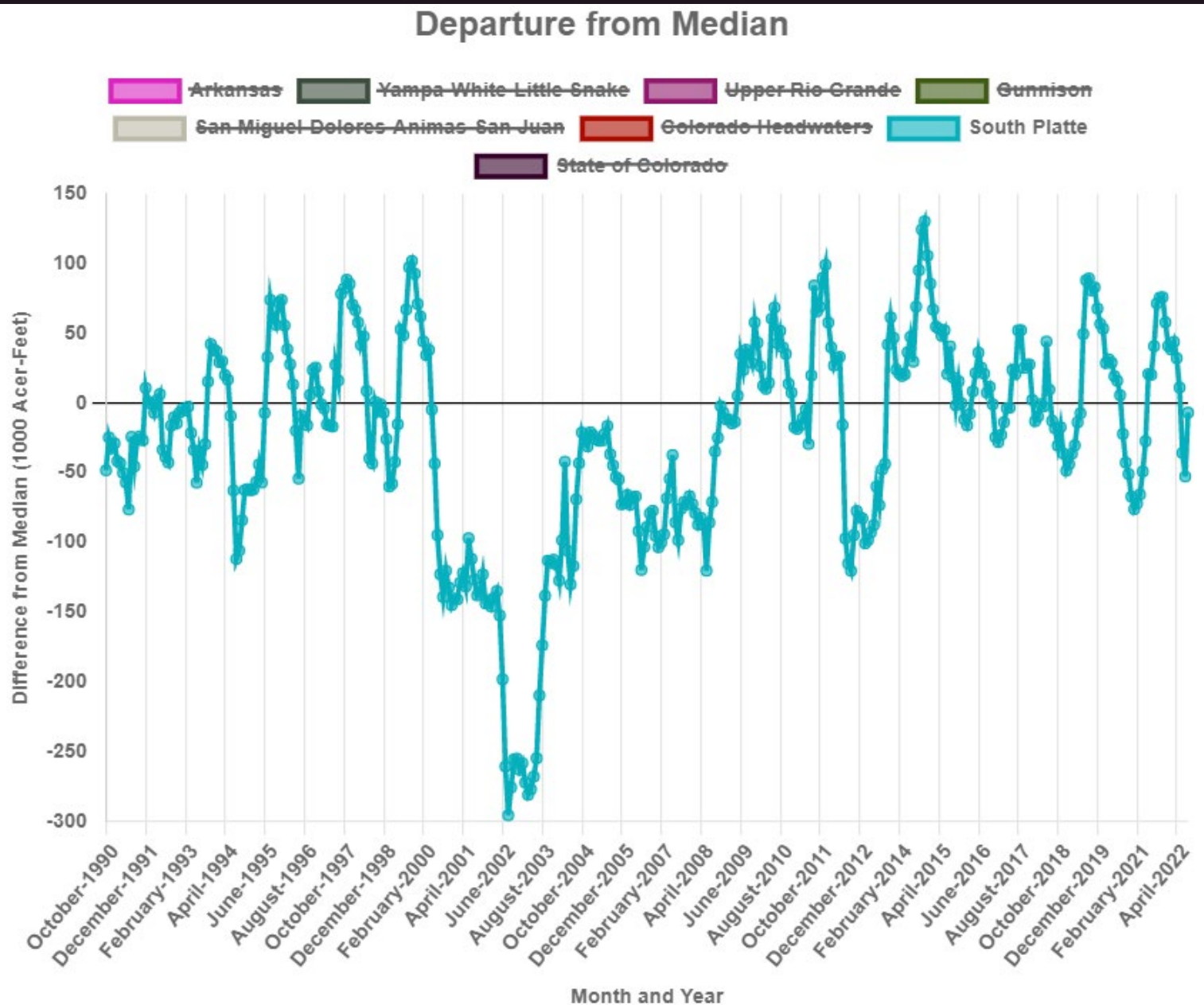
Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles
For more information visit: [30-Year Hydroclimatic Normals](#)



Reservoir Conditions for South Platte on August 1st 2022

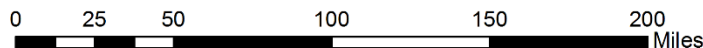
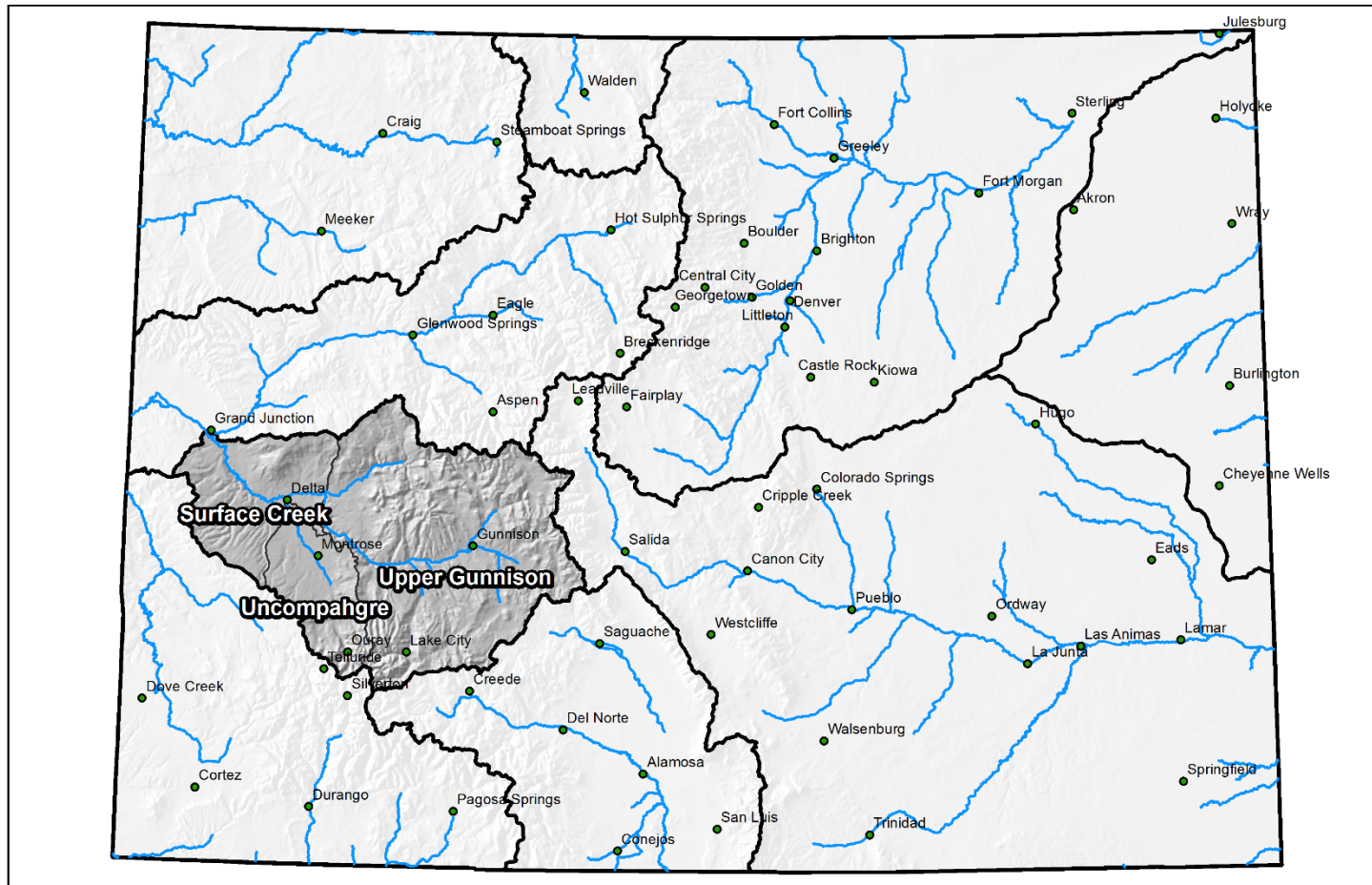


Reservoir Names



Major Basin Summary

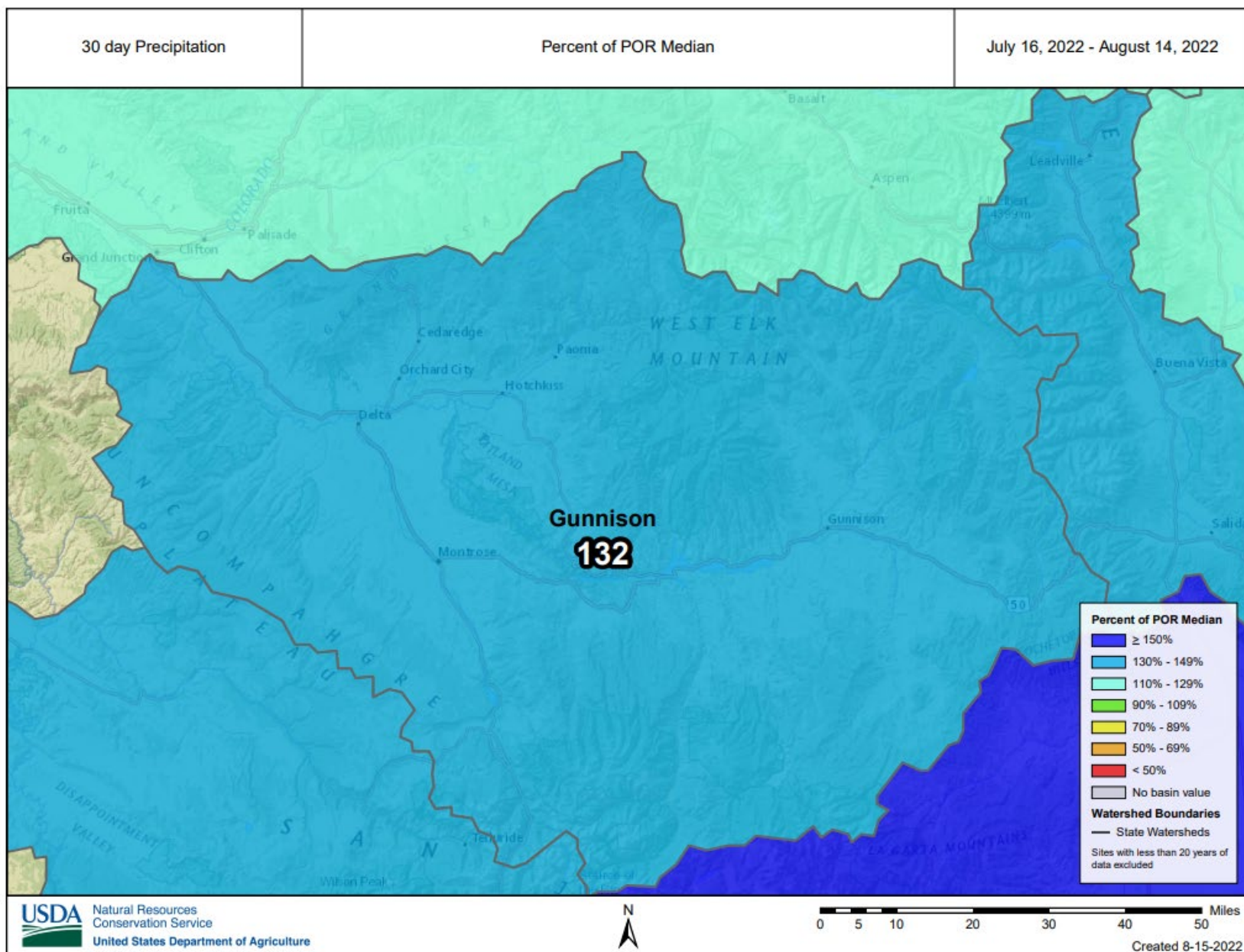
Gunnison River Basin





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PRECIPITATION IN GUNNISON

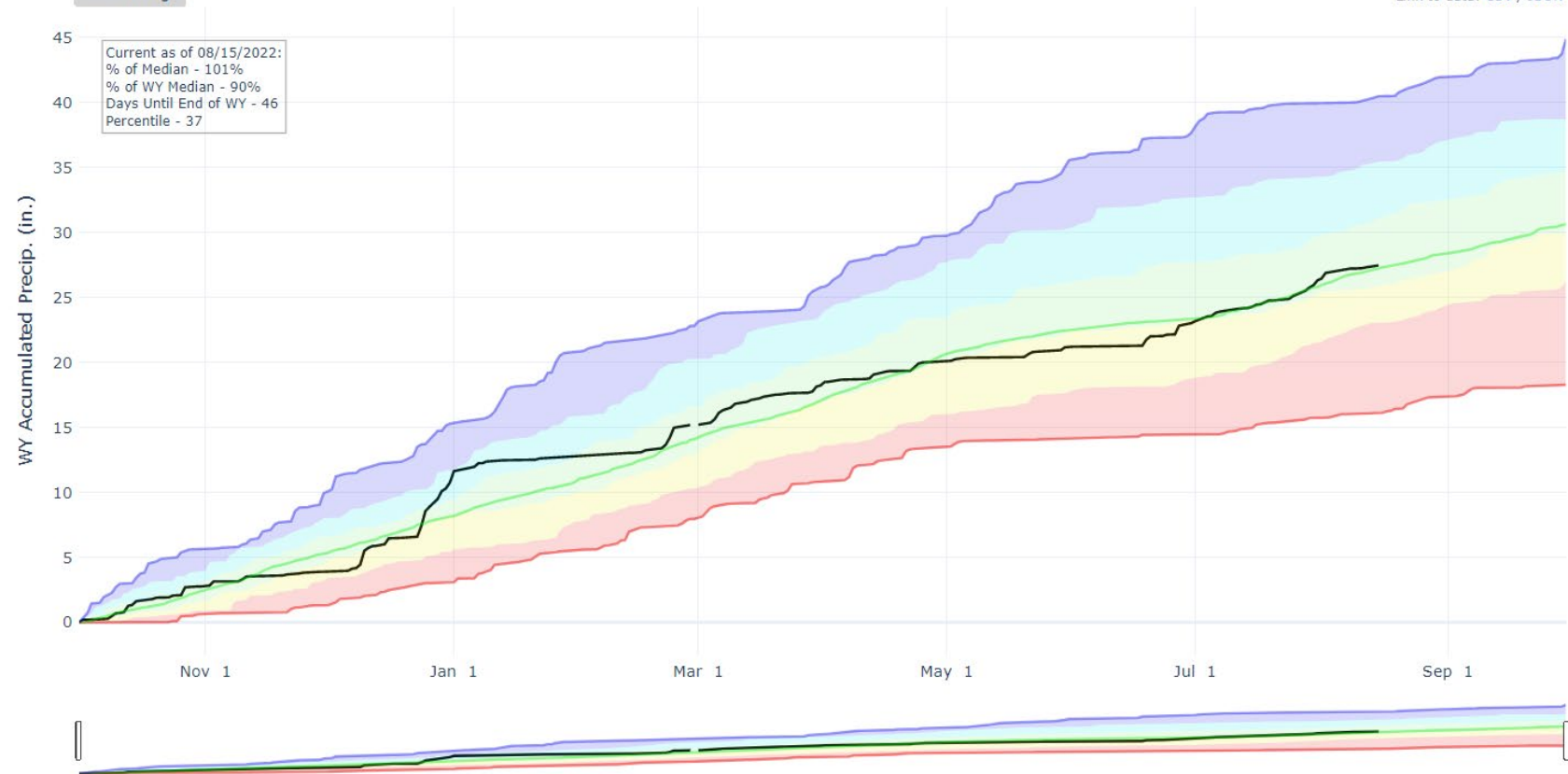
Reset Range

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

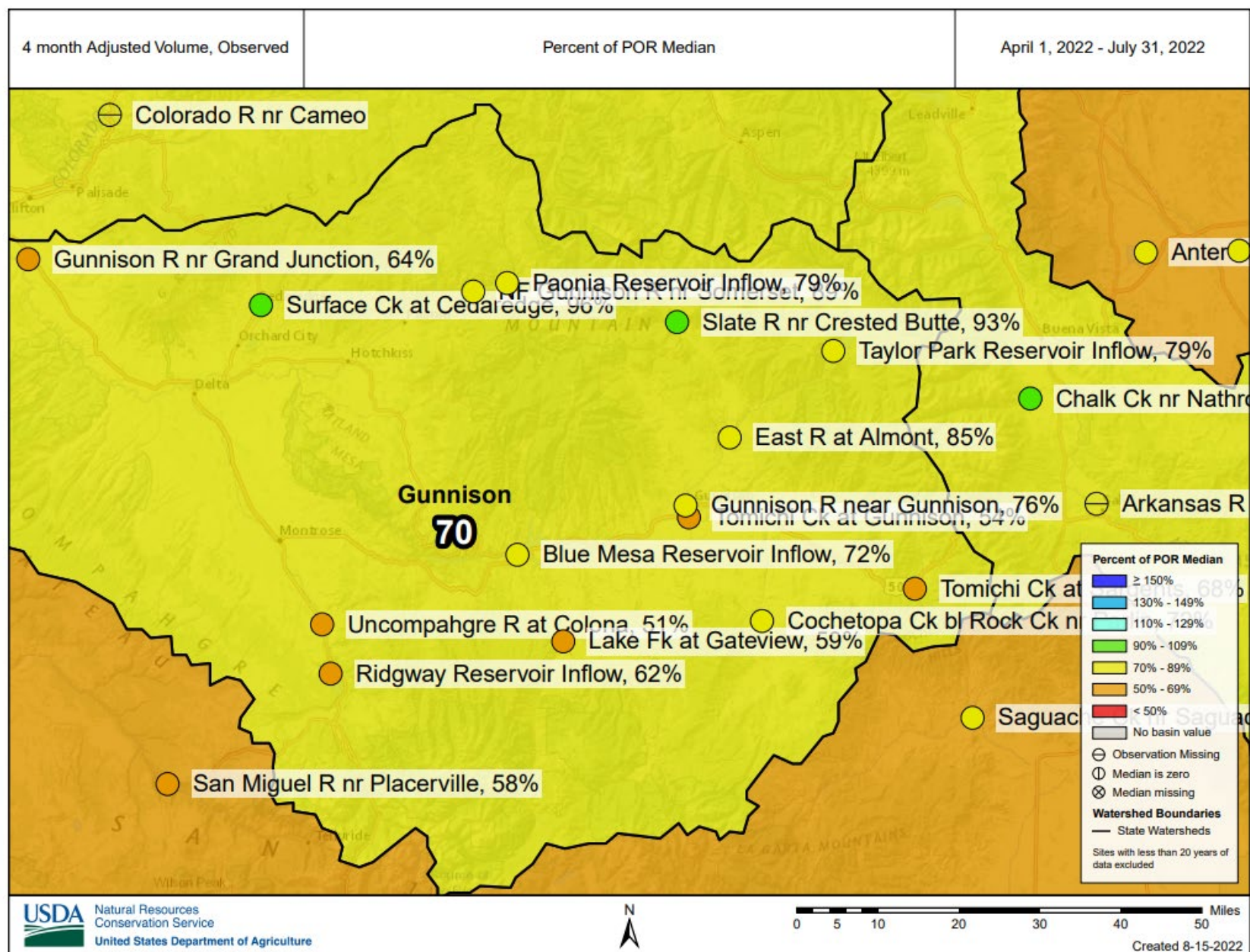
[Station List](#)

Current as of 08/15/2022:
% of Median - 101%
% of WY Median - 90%
Days Until End of WY - 46
Percentile - 37

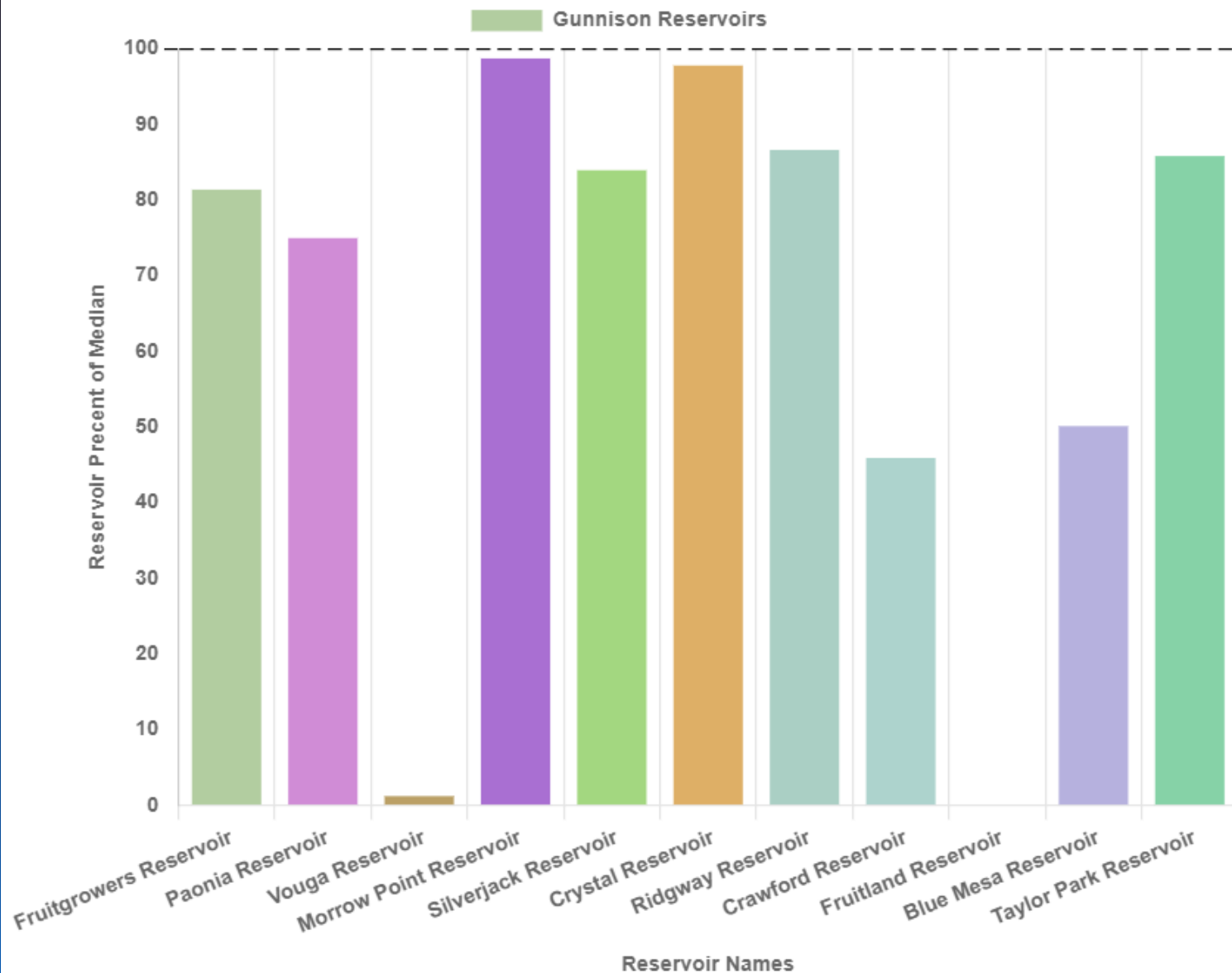
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2022 (15 sites)
- 2021 (15 sites)
- 2020 (15 sites)
- 2019 (15 sites)
- 2018 (15 sites)
- 2017 (15 sites)
- 2016 (15 sites)
- 2015 (15 sites)
- 2014 (15 sites)
- 2013 (15 sites)
- 2012 (15 sites)
- 2011 (15 sites)
- 2010 (15 sites)
- 2009 (14 sites)
- 2008 (13 sites)
- 2007 (13 sites)
- 2006 (13 sites)
- 2005 (13 sites)
- 2004 (12 sites)
- 2003 (12 sites)

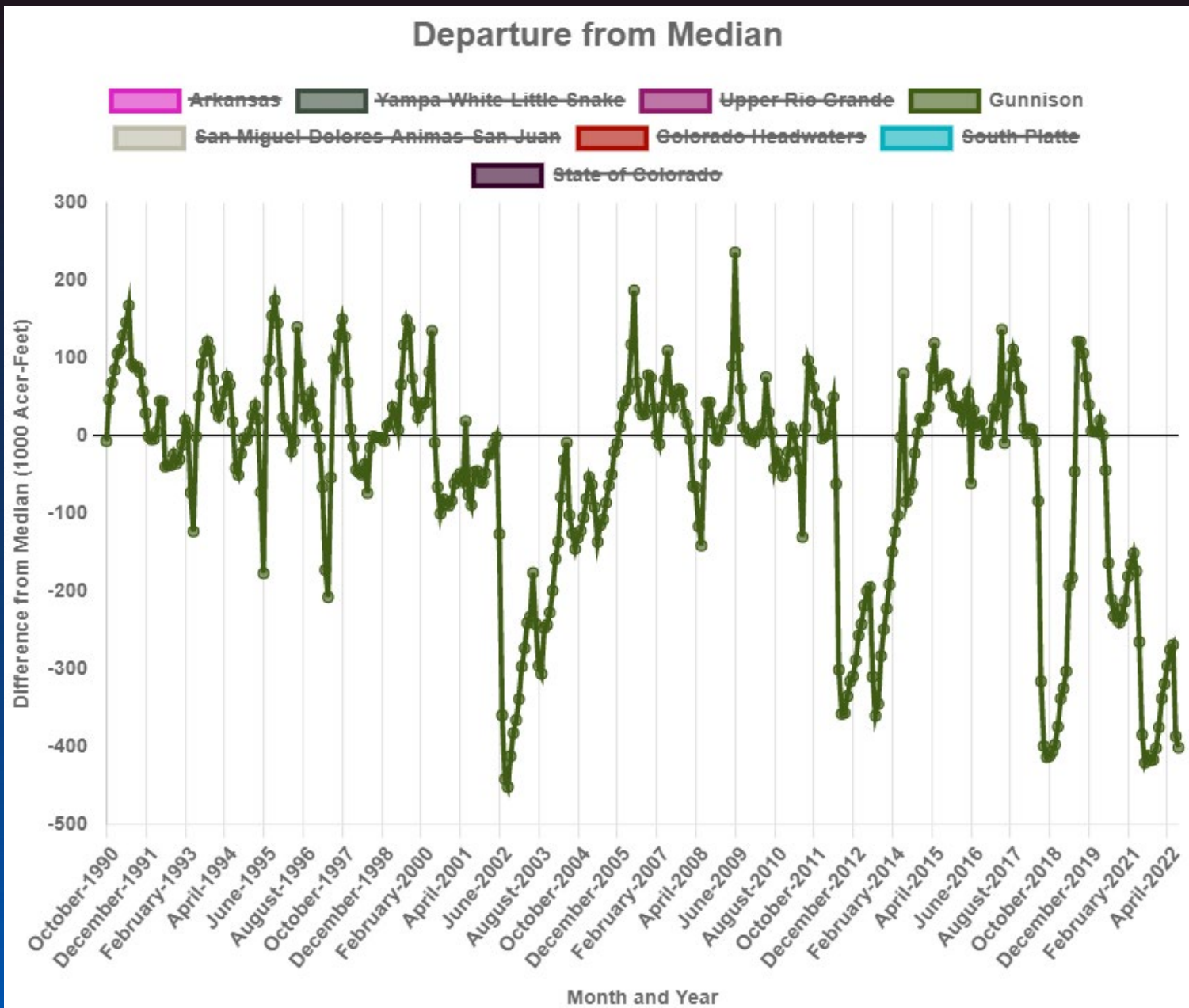


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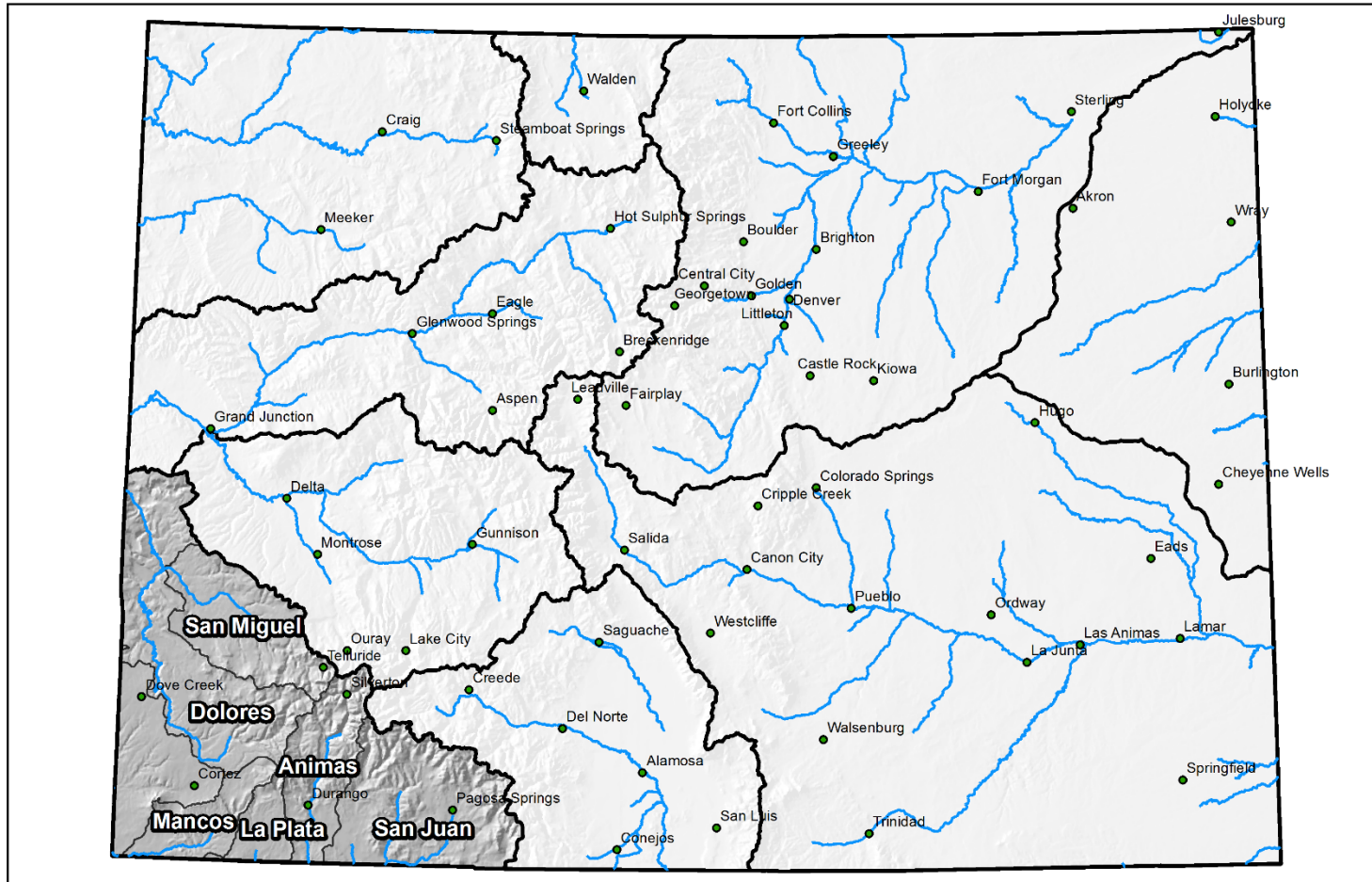
Reservoir Conditions for Gunnison on August 1st 2022





Major Basin Summary

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

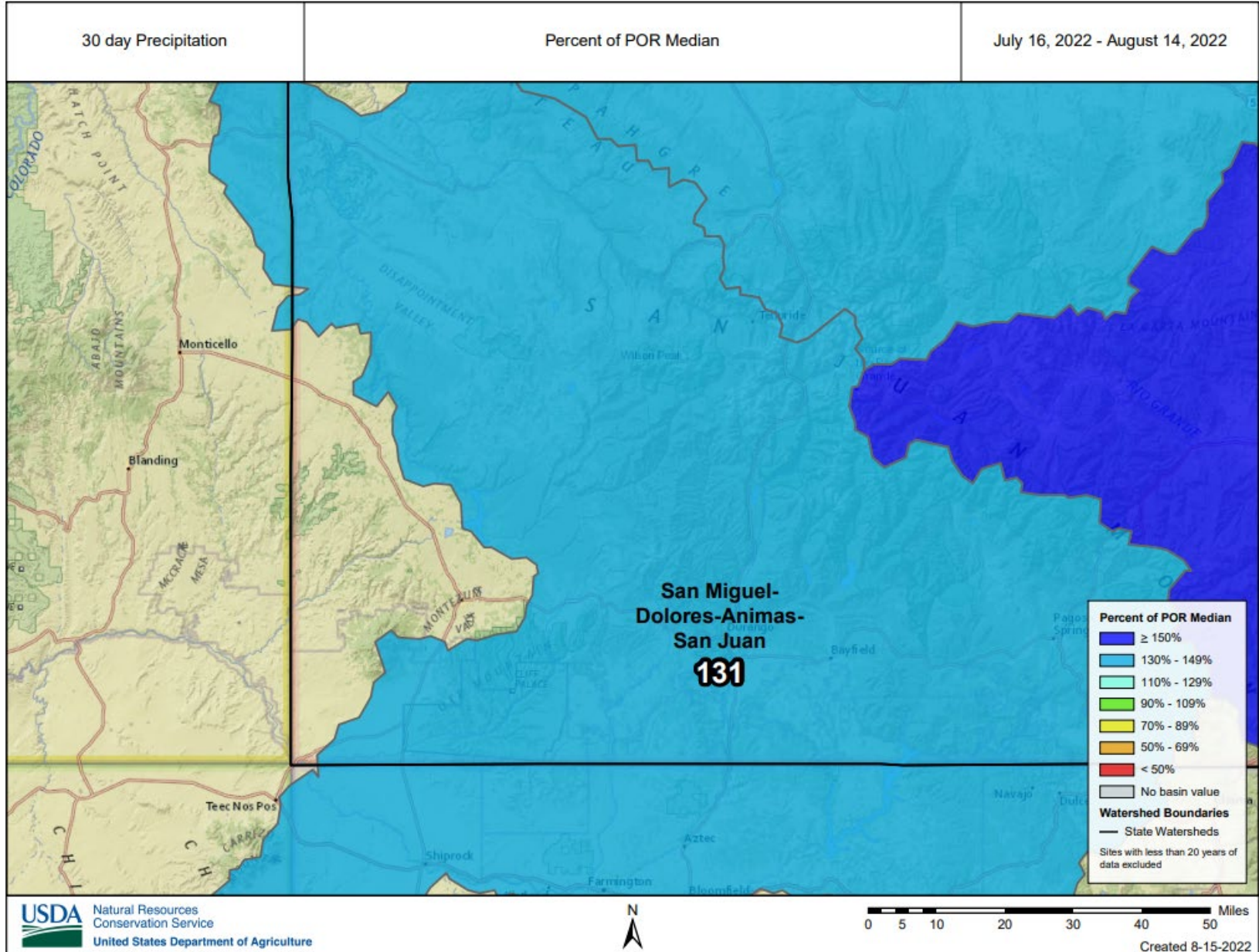


0 25 50 100 150 200 Miles



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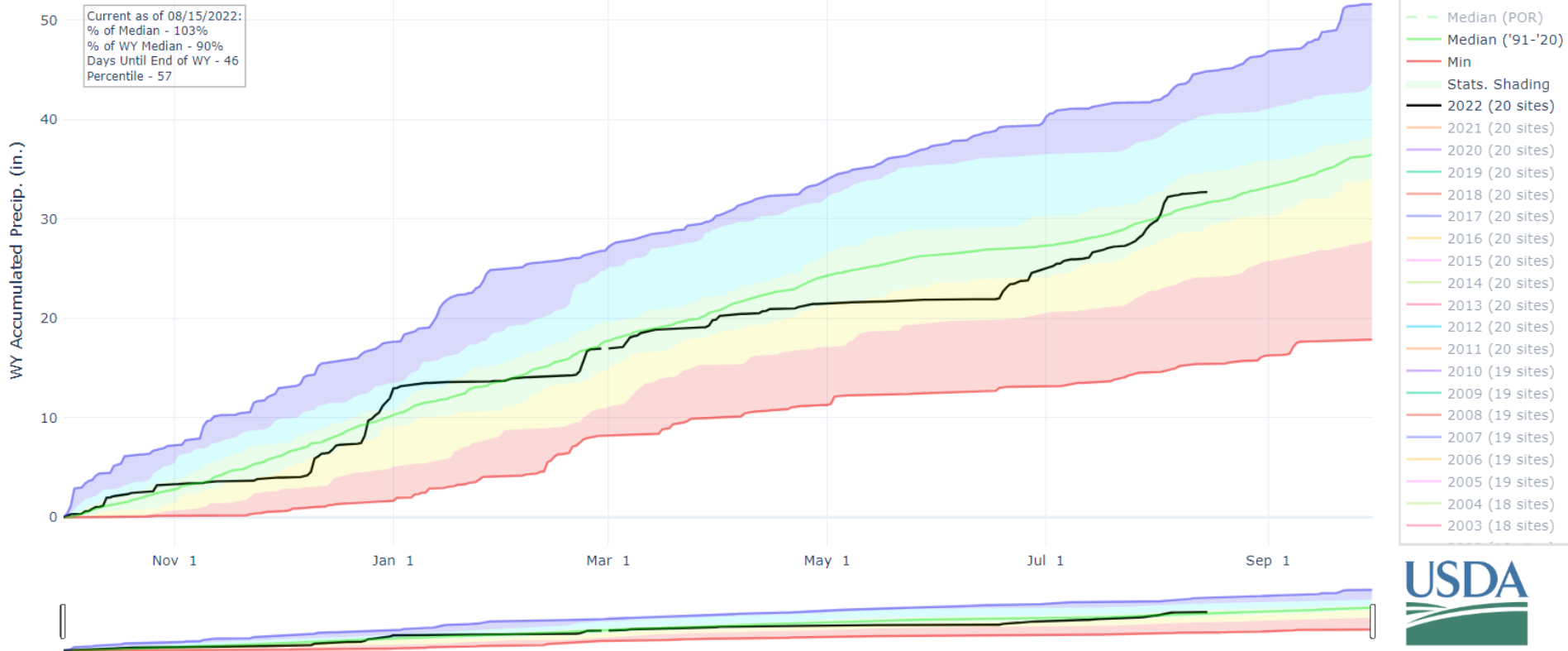
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PRECIPITATION IN SAN MIGUEL-DOLORES-ANIMAS-SAN JUAN

Reset Range

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

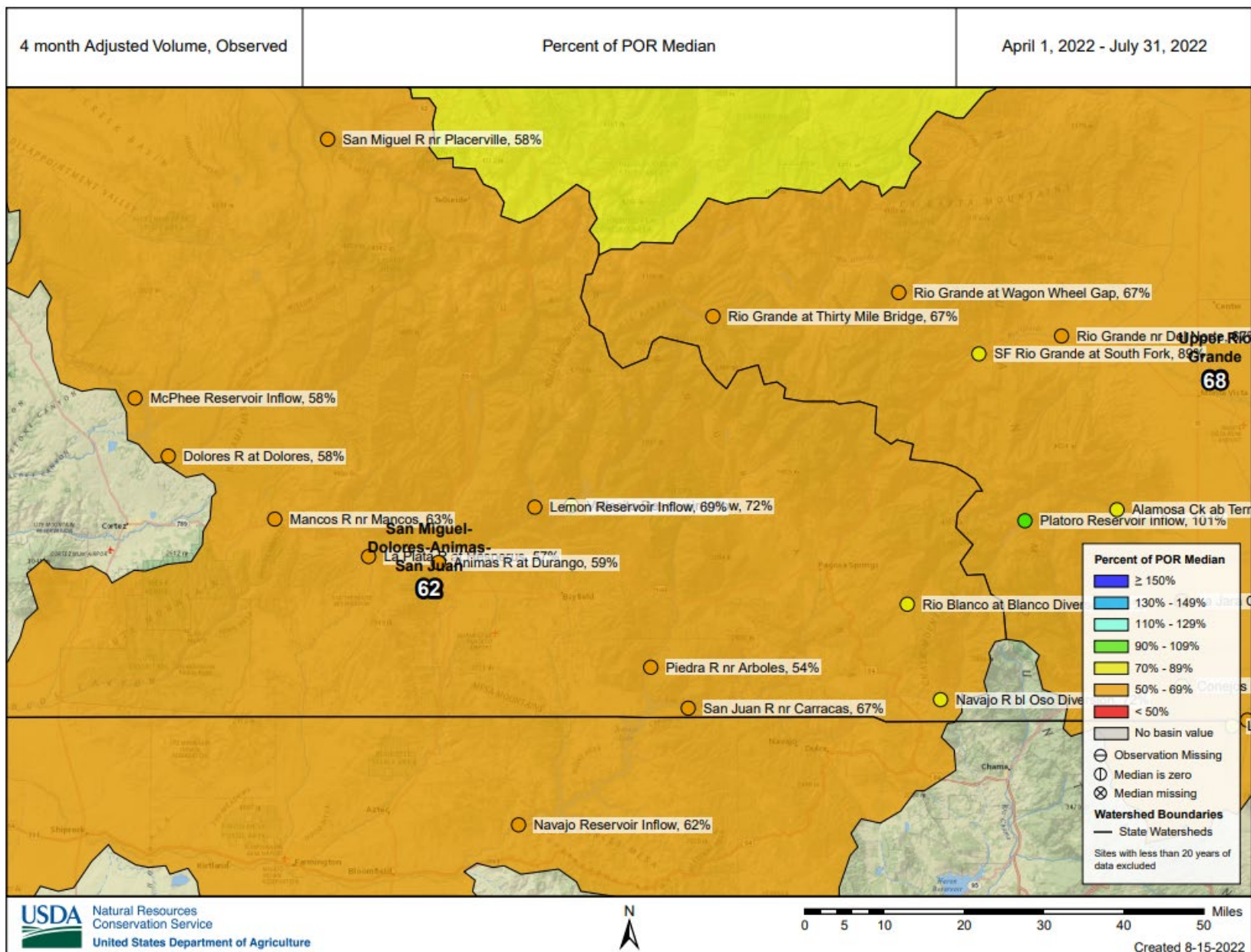
Station List



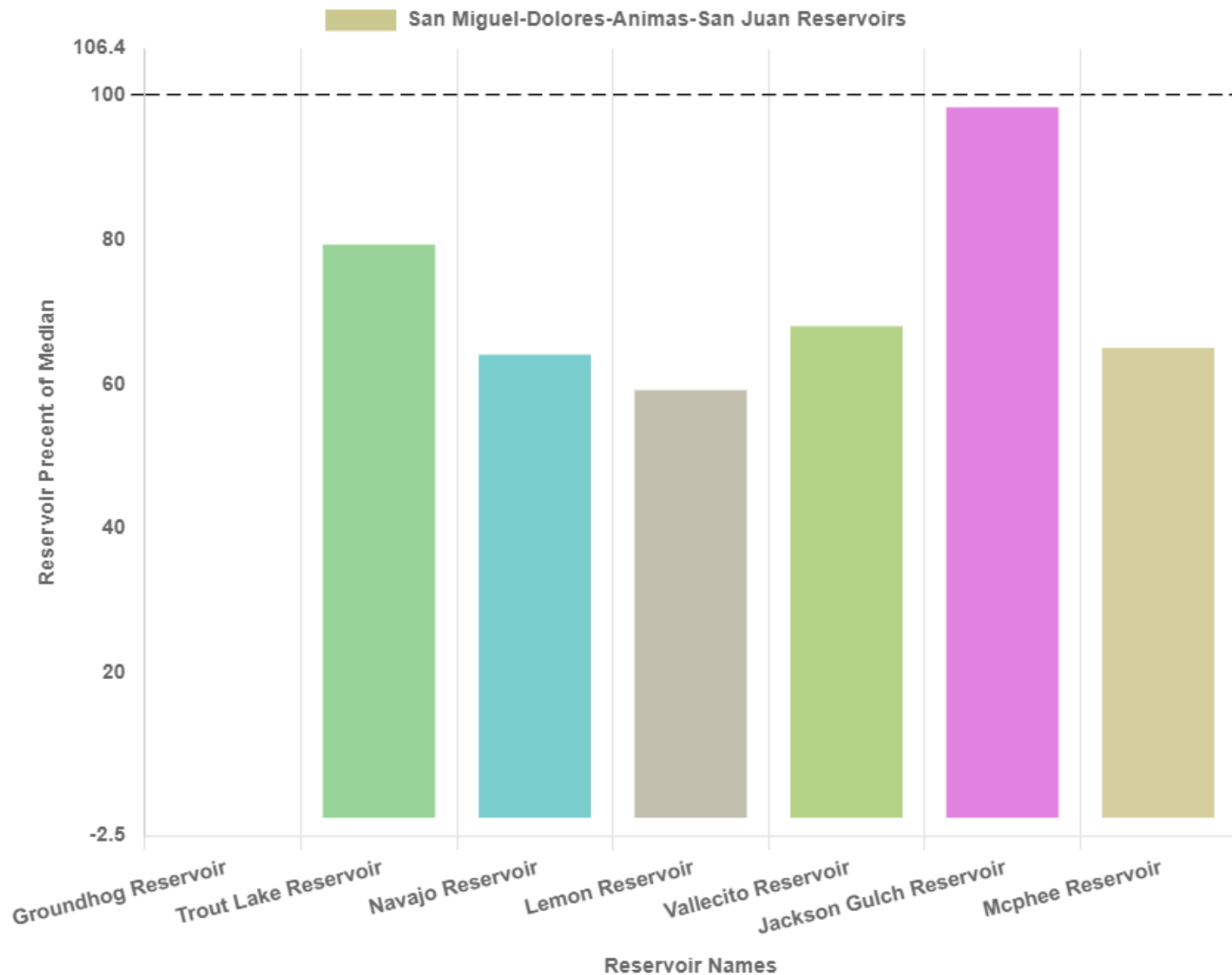
Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles
For more information visit: [30-Year Hydroclimatic Normals](#)

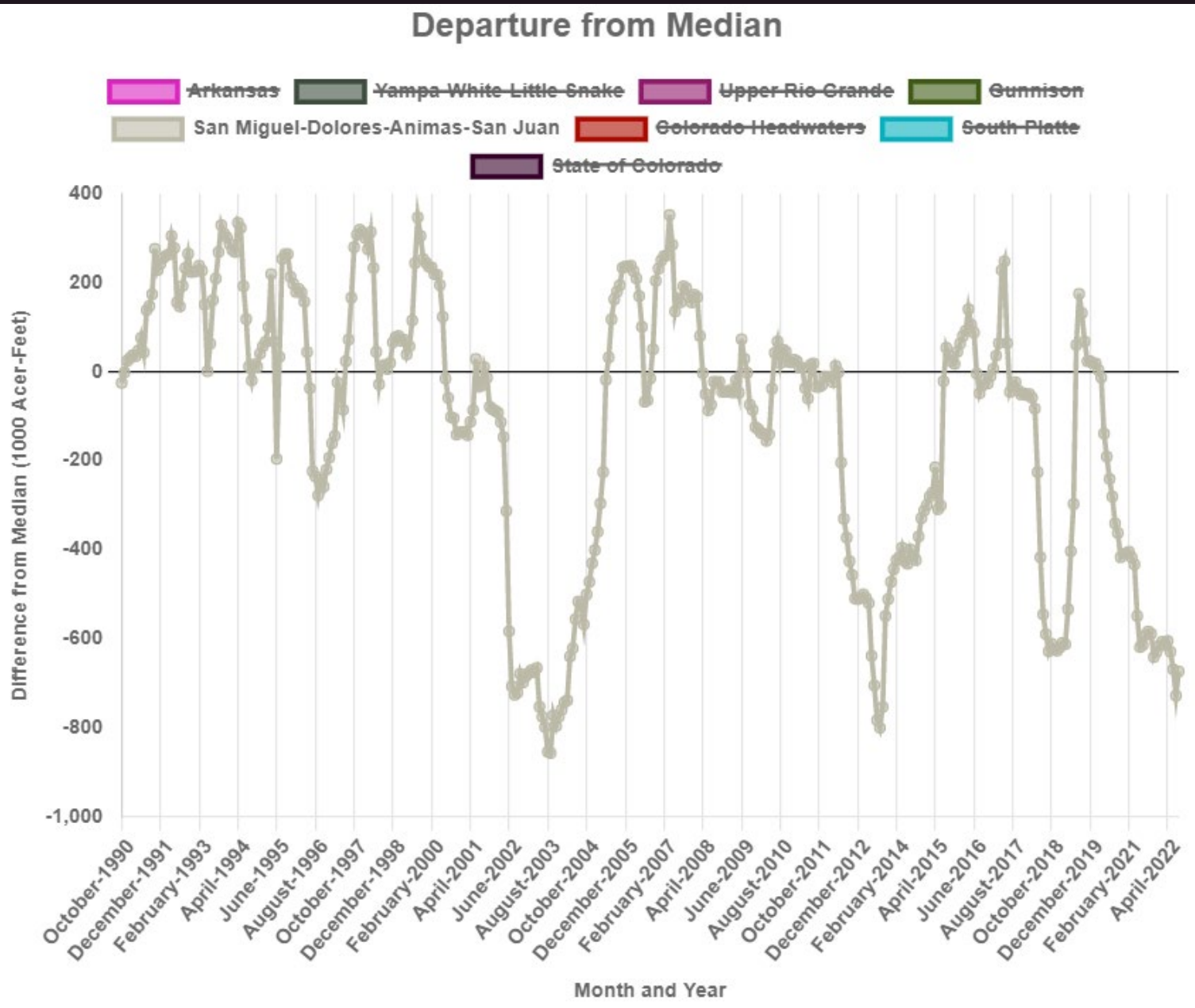


Colorado Snow Surveys



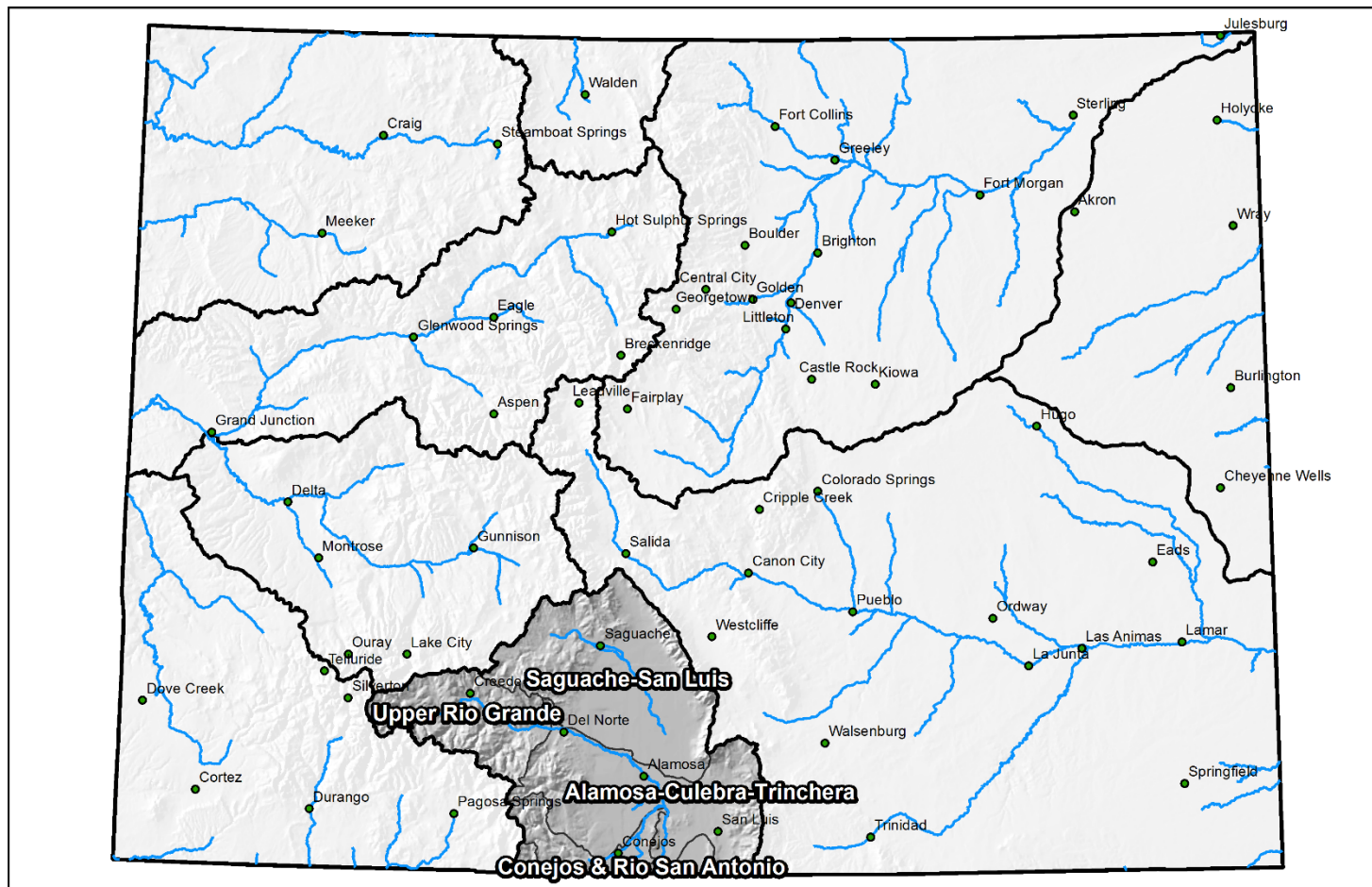
Reservoir Conditions for San Miguel-Dolores-Animas-San Juan on August 1st 2022





Major Basin Summary

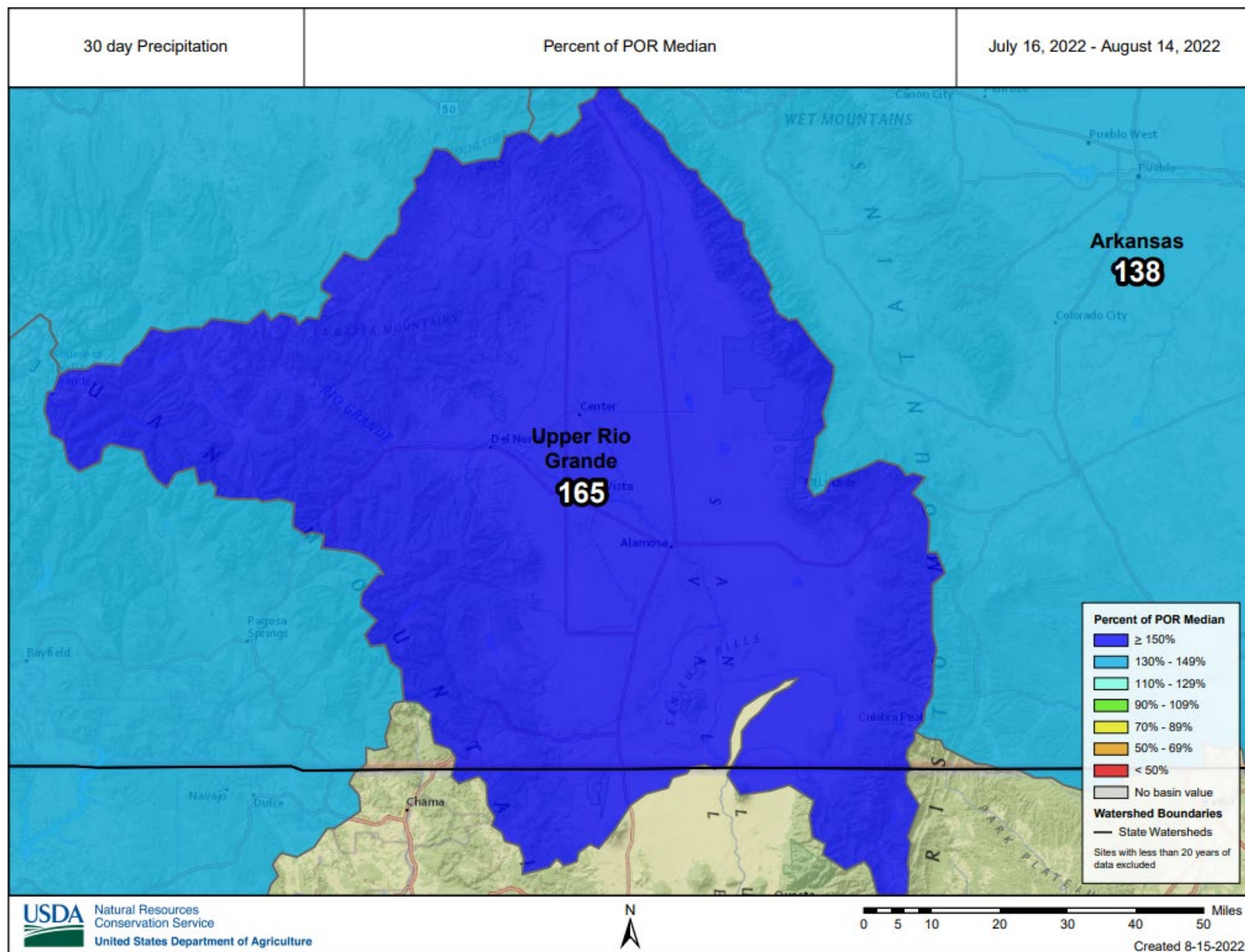
Upper Rio Grande River Basin



0 25 50 100 150 200 Miles



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Colorado Snow Surveys

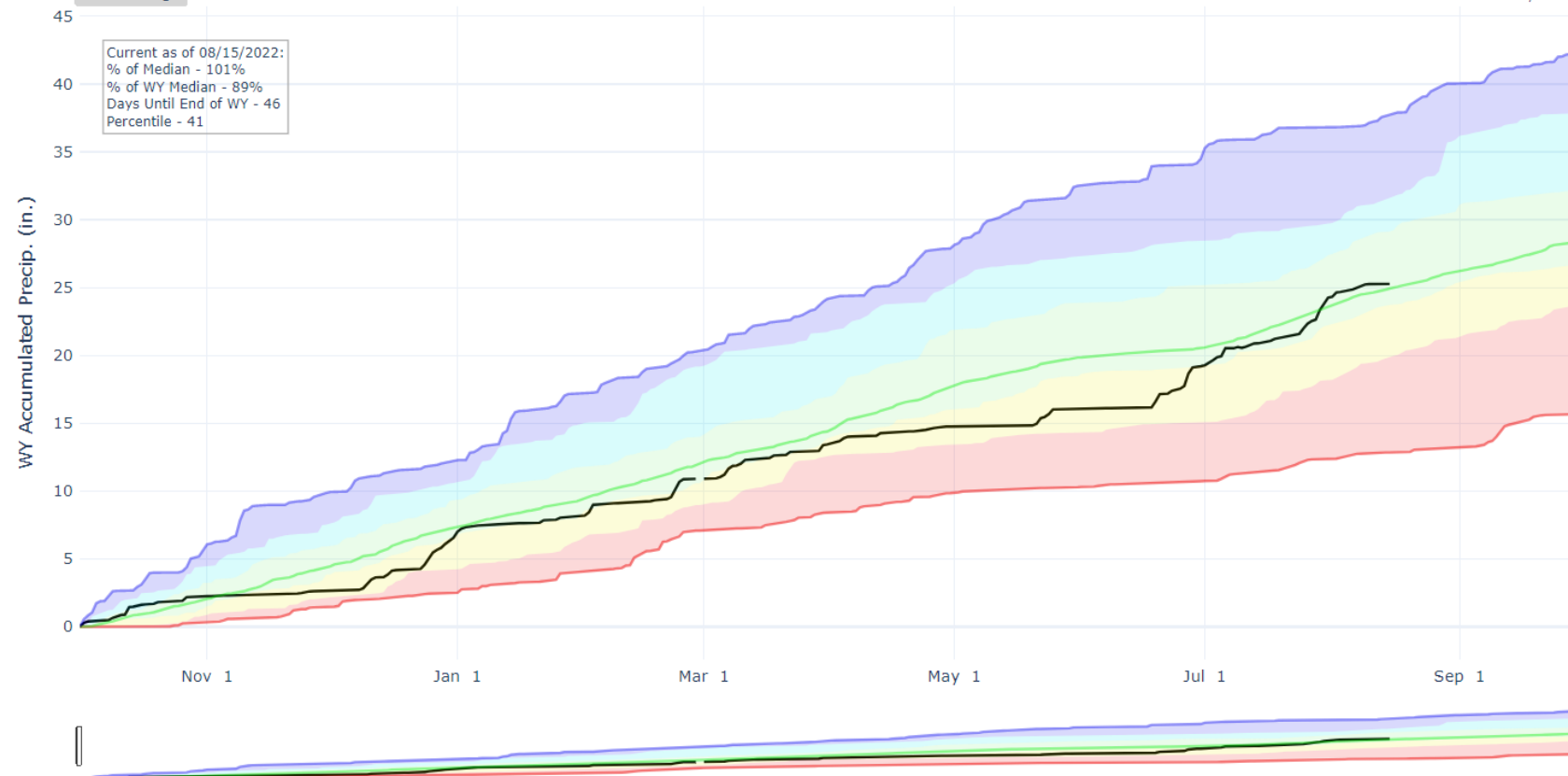
PRECIPITATION IN UPPER RIO GRANDE

Reset Range

Link to data: CSV / JSON

Station List

Current as of 08/15/2022:
% of Median - 101%
% of WY Median - 89%
Days Until End of WY - 46
Percentile - 41



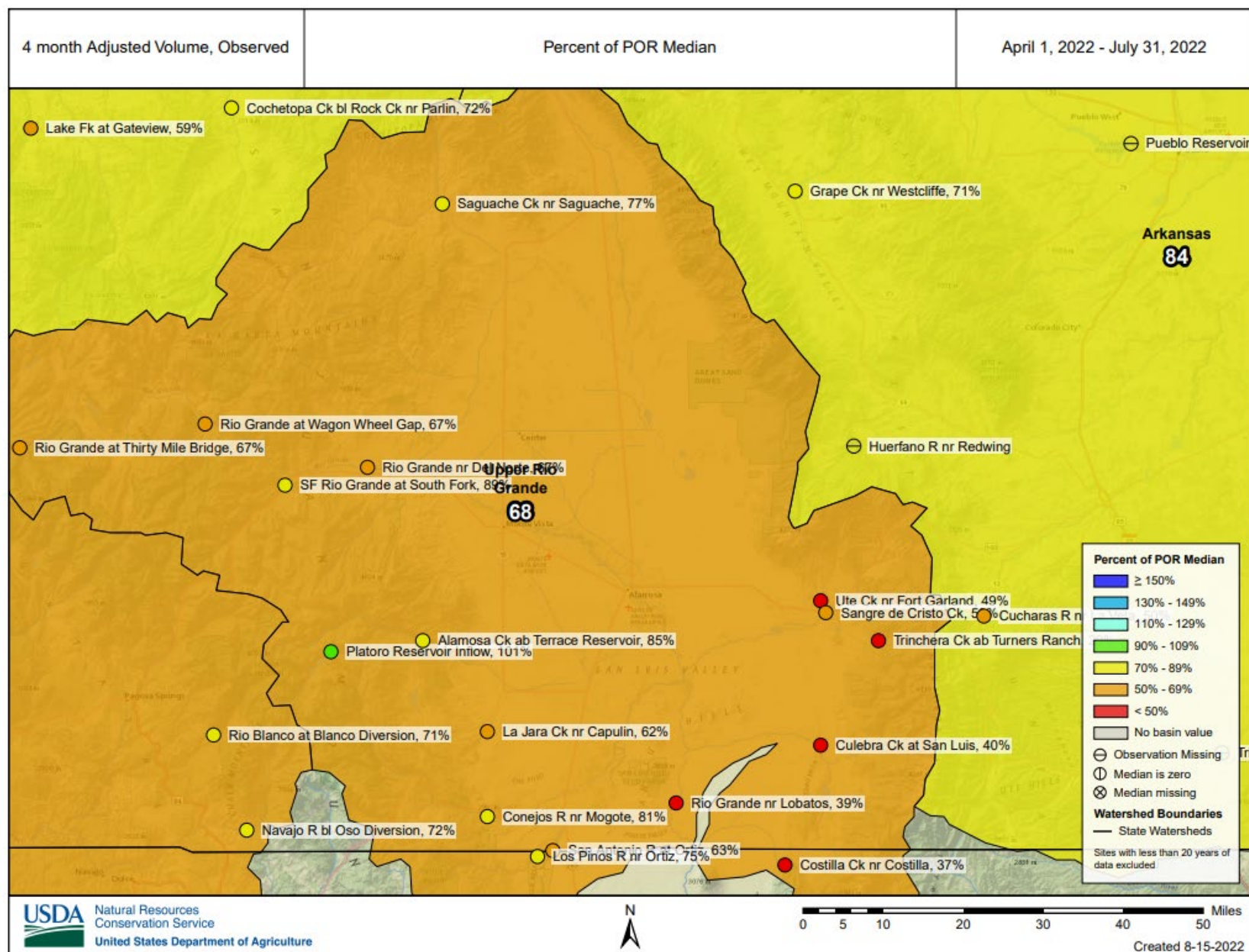
- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2022 (18 sites)
- 2021 (18 sites)
- 2020 (18 sites)
- 2019 (18 sites)
- 2018 (18 sites)
- 2017 (18 sites)
- 2016 (18 sites)
- 2015 (18 sites)
- 2014 (18 sites)
- 2013 (18 sites)
- 2012 (18 sites)
- 2011 (18 sites)
- 2010 (17 sites)
- 2009 (17 sites)
- 2008 (15 sites)
- 2007 (14 sites)
- 2006 (14 sites)
- 2005 (14 sites)
- 2004 (12 sites)
- 2003 (12 sites)



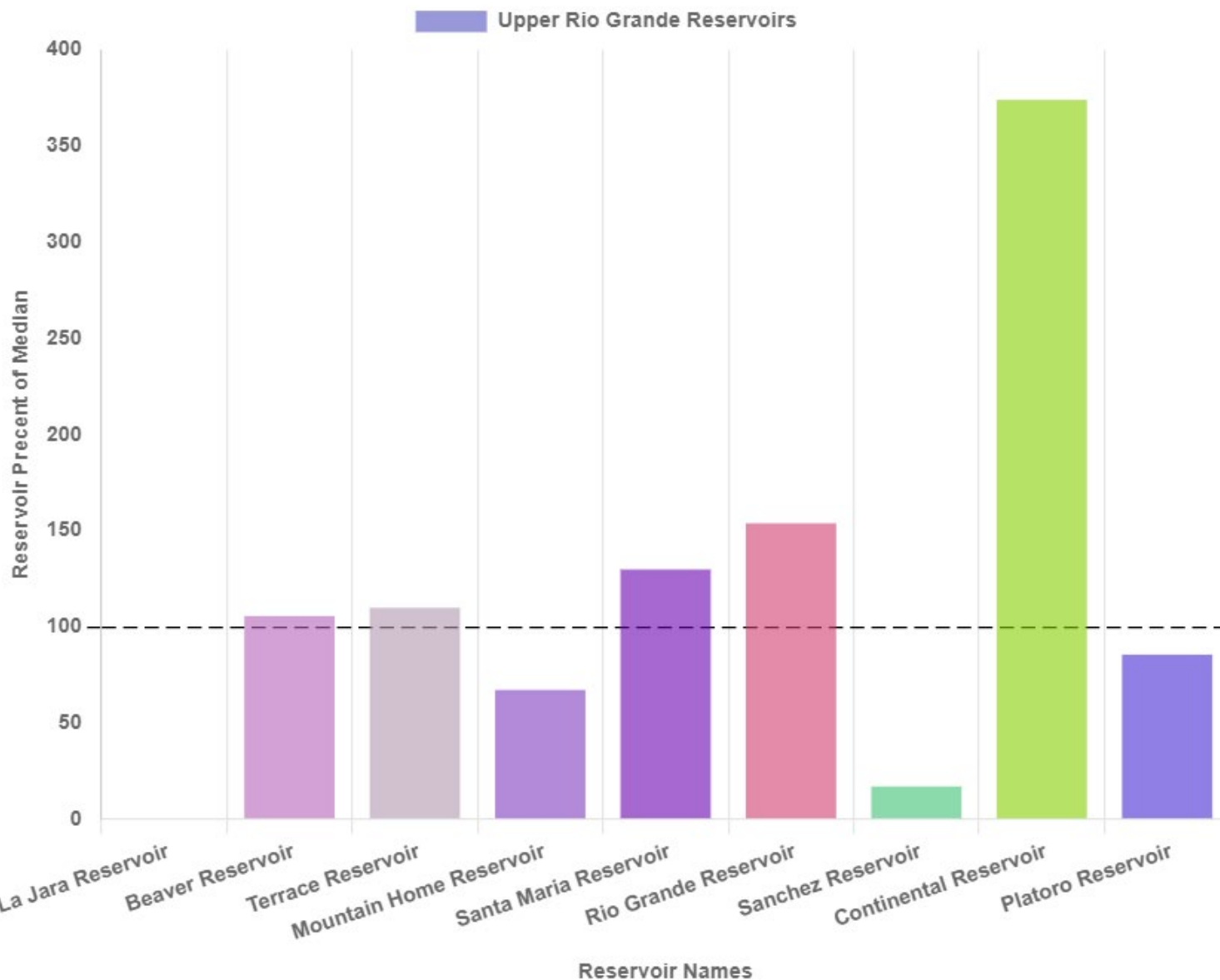
Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles
For more information visit: [30-Year Hydroclimatic Normals](#)

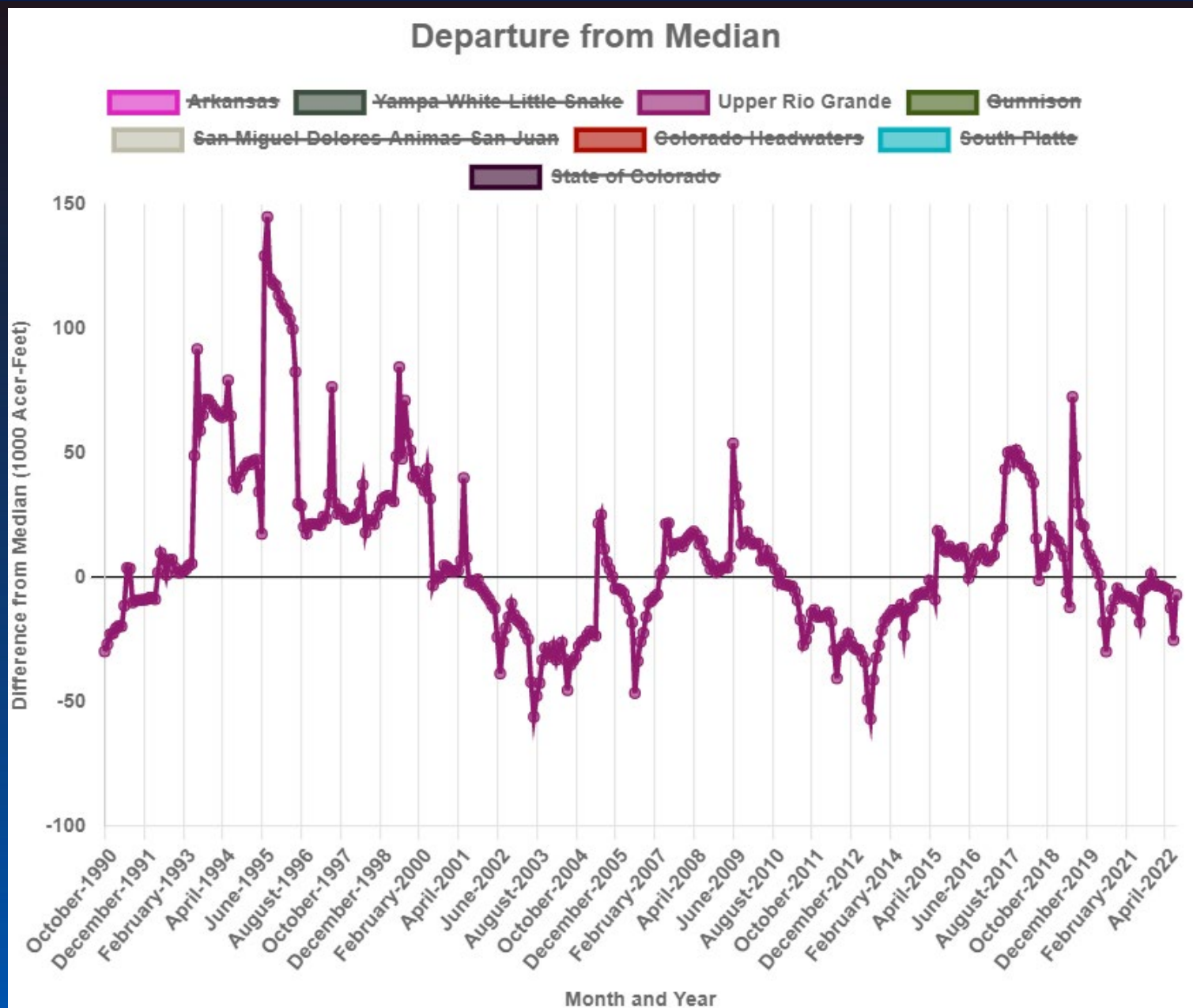


Colorado Snow Surveys



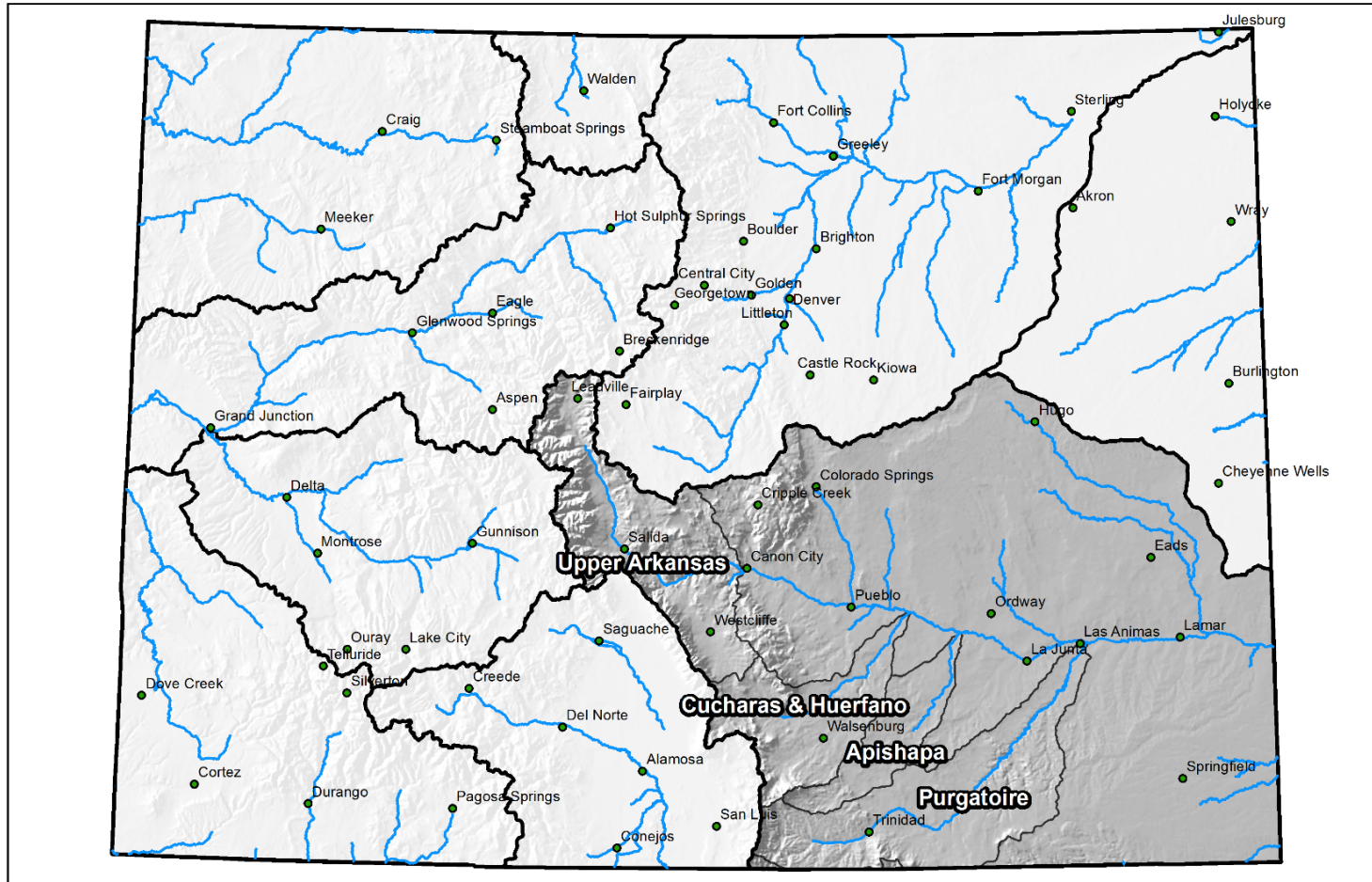
Reservoir Conditions for Upper Rio Grande on August 1st 2022





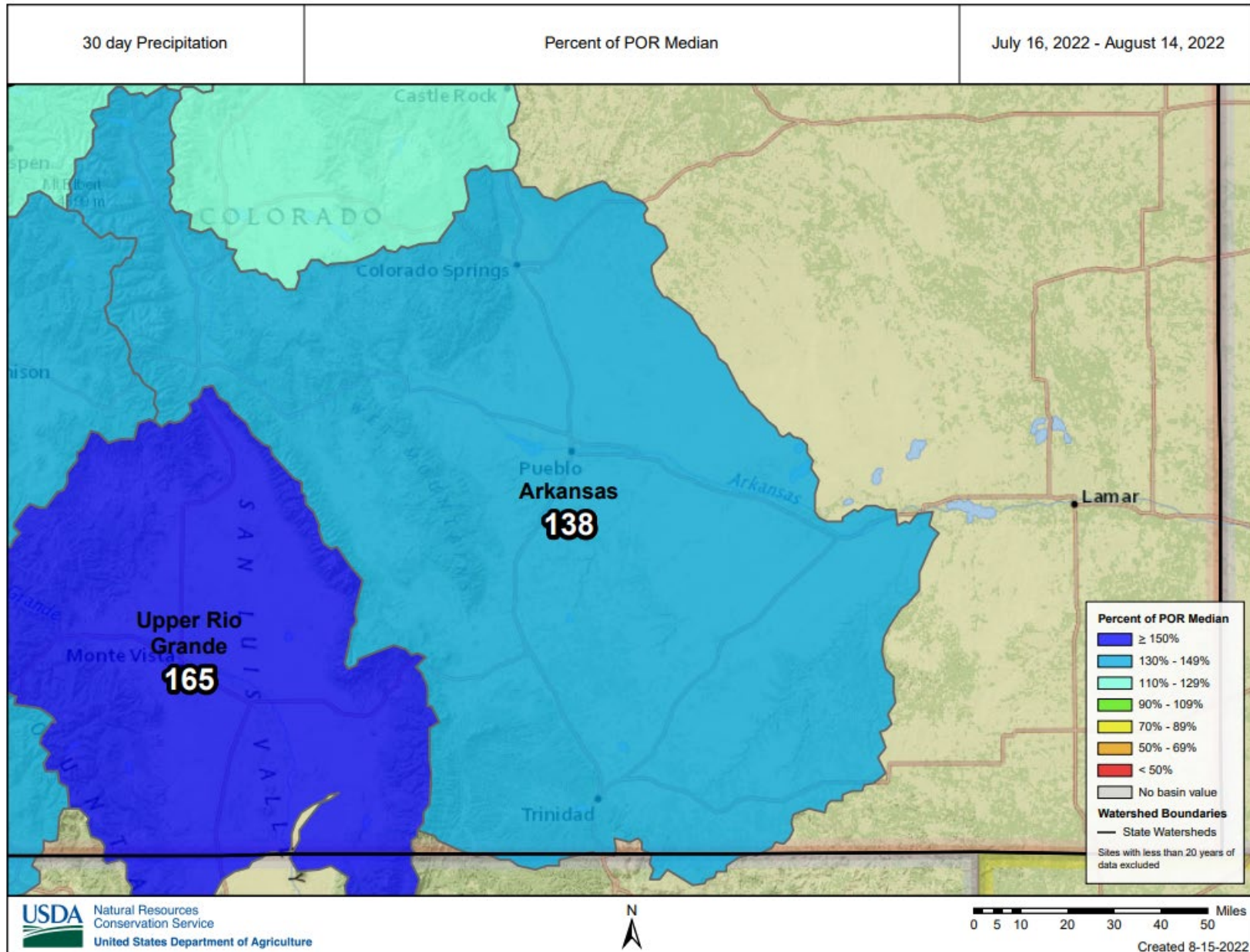
Major Basin Summary

Arkansas River Basin



0 25 50 100 150 200 Miles

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****Please note that the drop in data over the last week is an artifact of SNOTEL maintenance which will be resolved shortly**

PRECIPITATION IN ARKANSAS

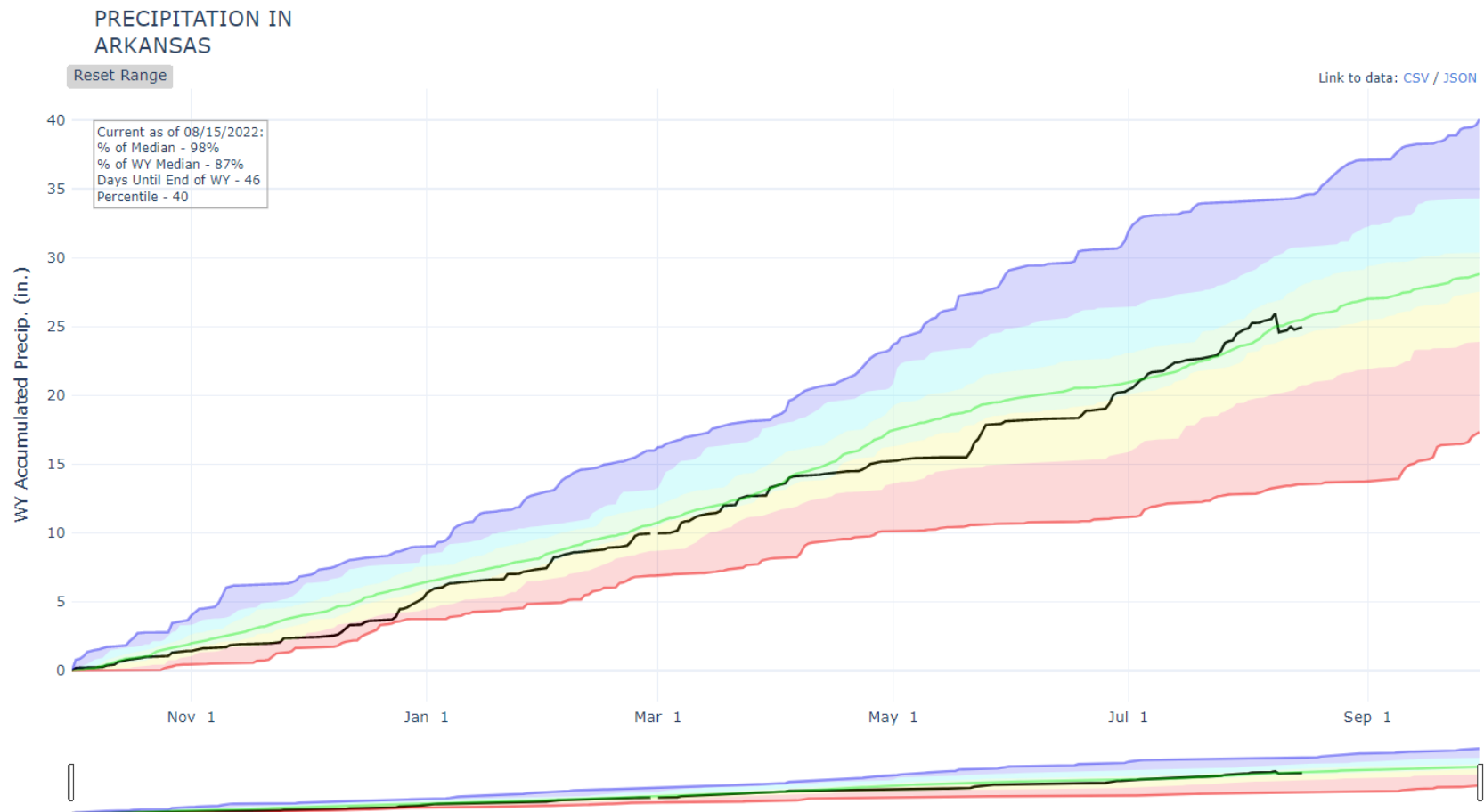
Reset Range

Link to data: CSV / JSON

Station List

Current as of 08/15/2022:
% of Median - 98%
% of WY Median - 87%
Days Until End of WY - 46
Percentile - 40

- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2022 (11 sites)
- 2021 (11 sites)
- 2020 (11 sites)
- 2019 (11 sites)
- 2018 (11 sites)
- 2017 (11 sites)
- 2016 (11 sites)
- 2015 (11 sites)
- 2014 (11 sites)
- 2013 (11 sites)
- 2012 (11 sites)
- 2011 (11 sites)
- 2010 (11 sites)
- 2009 (11 sites)
- 2008 (11 sites)
- 2007 (9 sites)
- 2006 (9 sites)
- 2005 (9 sites)
- 2004 (8 sites)
- 2003 (8 sites)



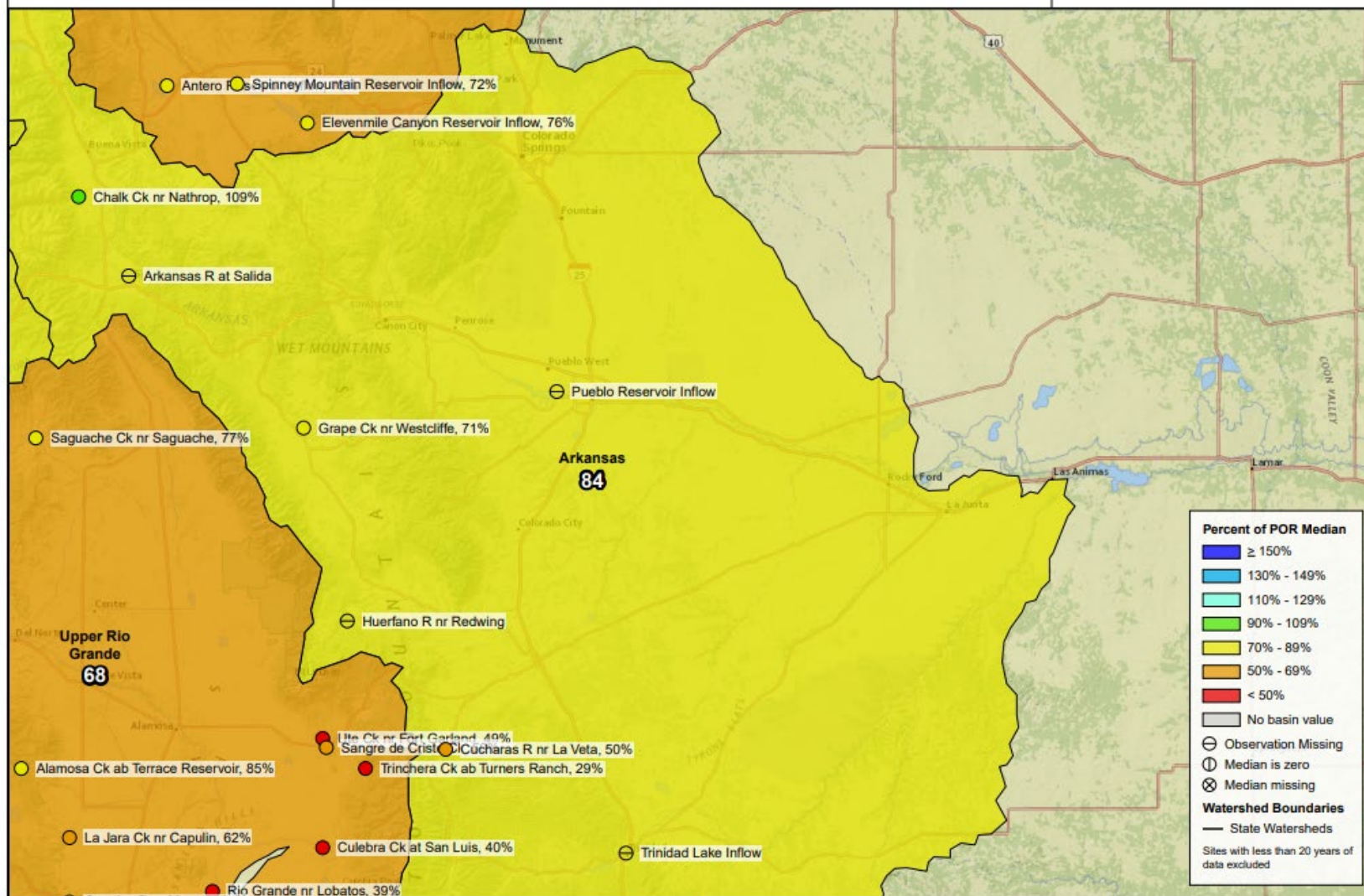


Colorado Snow Surveys

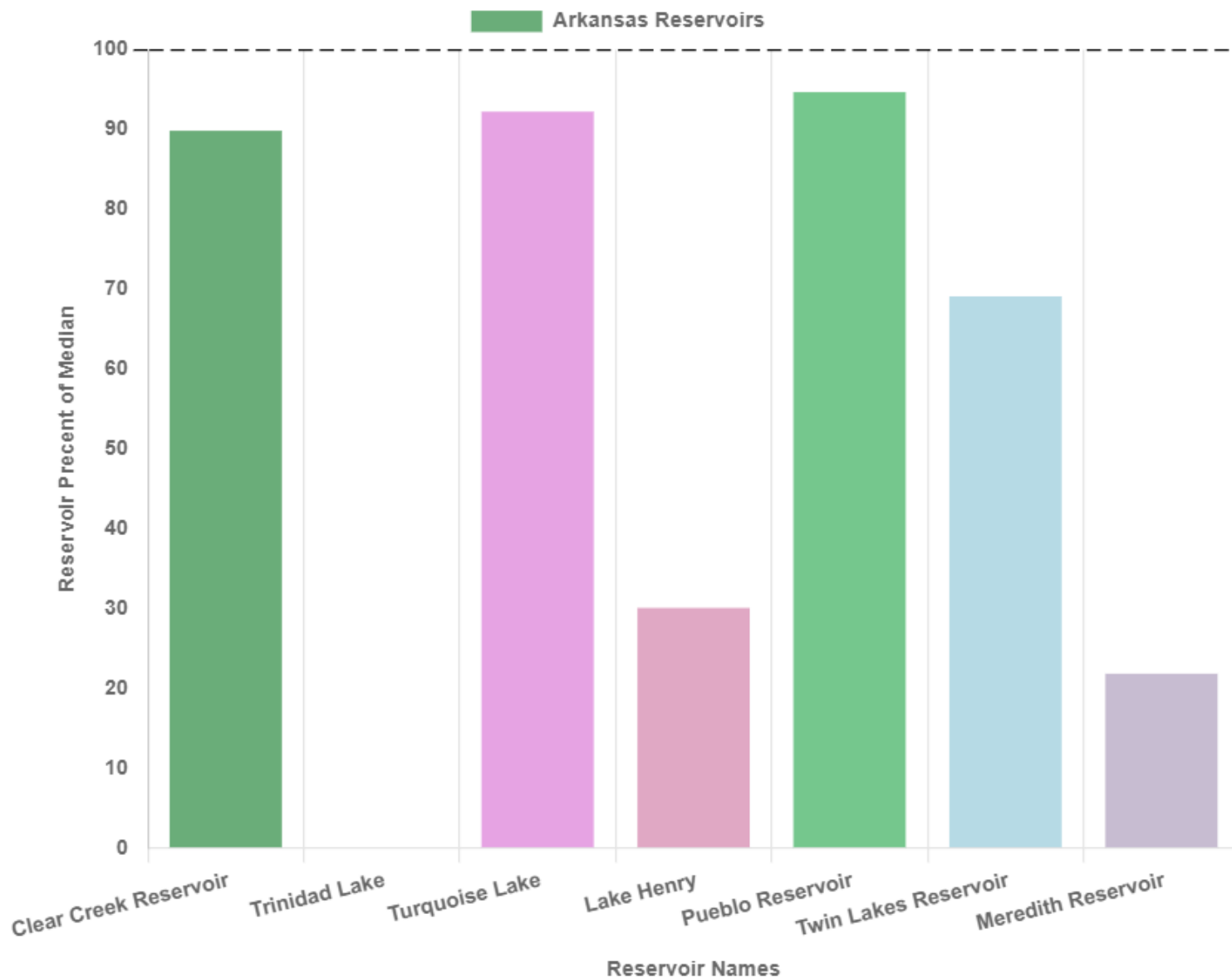
4 month Adjusted Volume, Observed

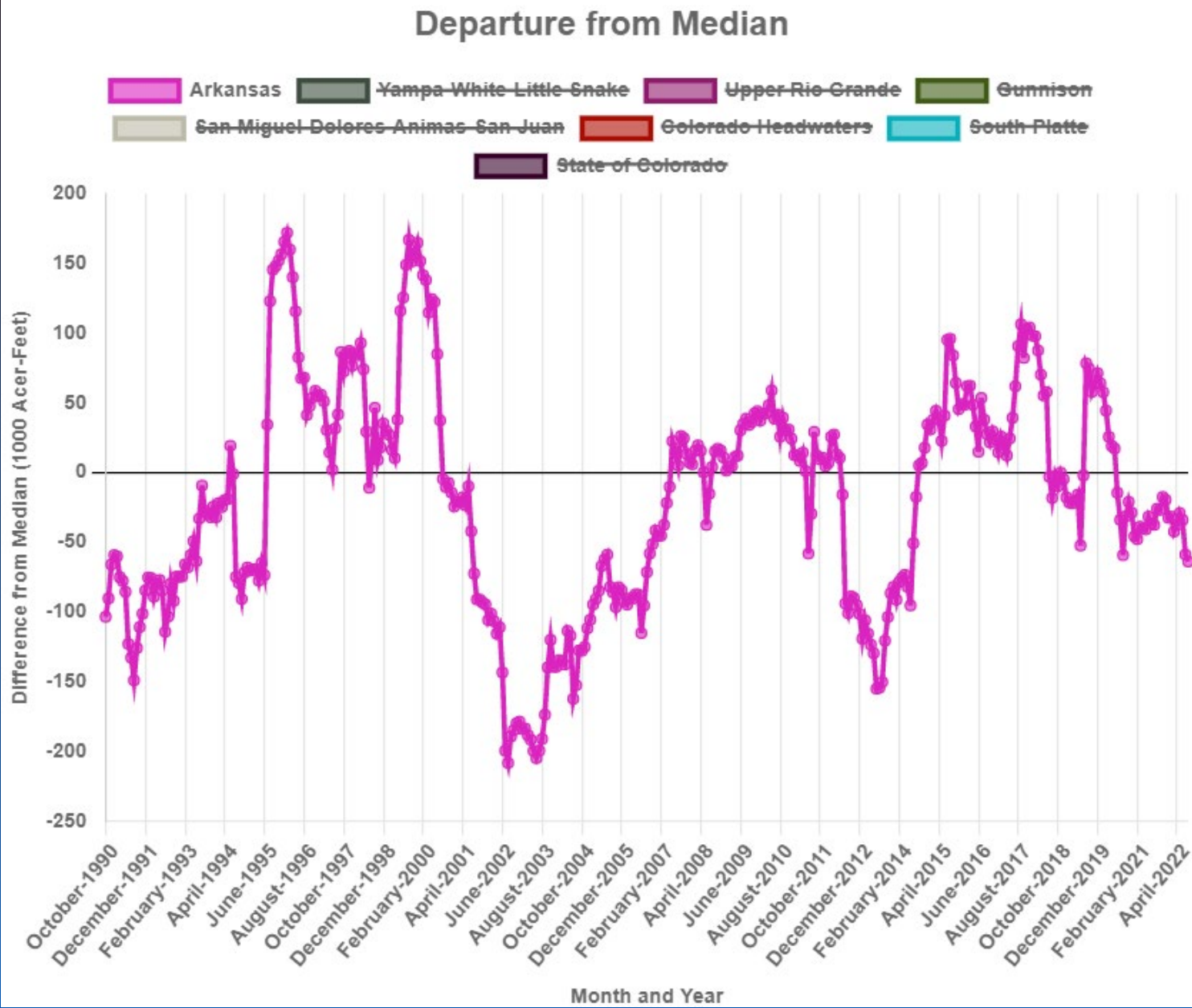
Percent of POR Median

April 1, 2022 - July 31, 2022



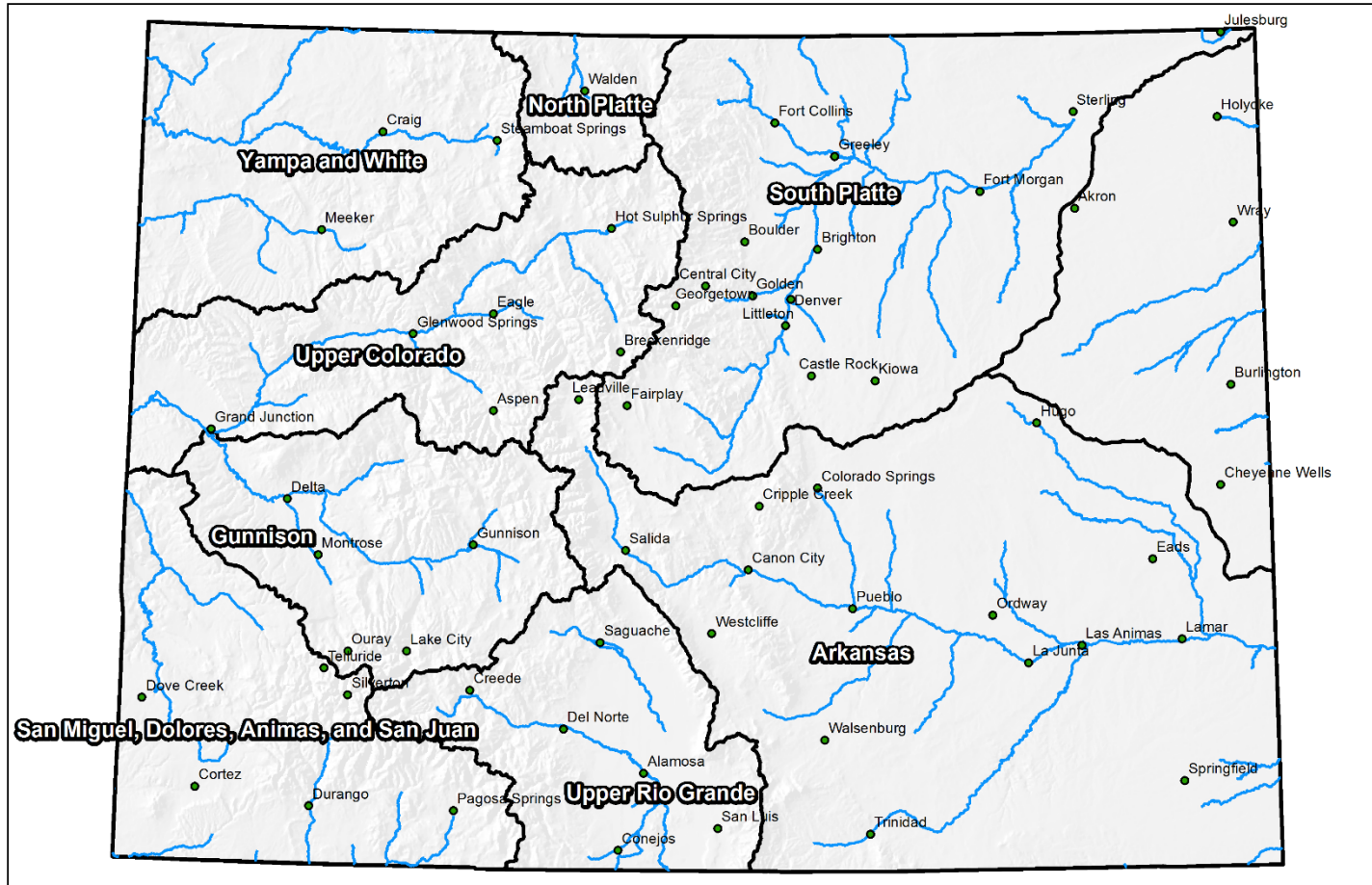
Reservoir Conditions for Arkansas on August 1st 2022





Colorado Statewide Summary

Colorado Major Basins

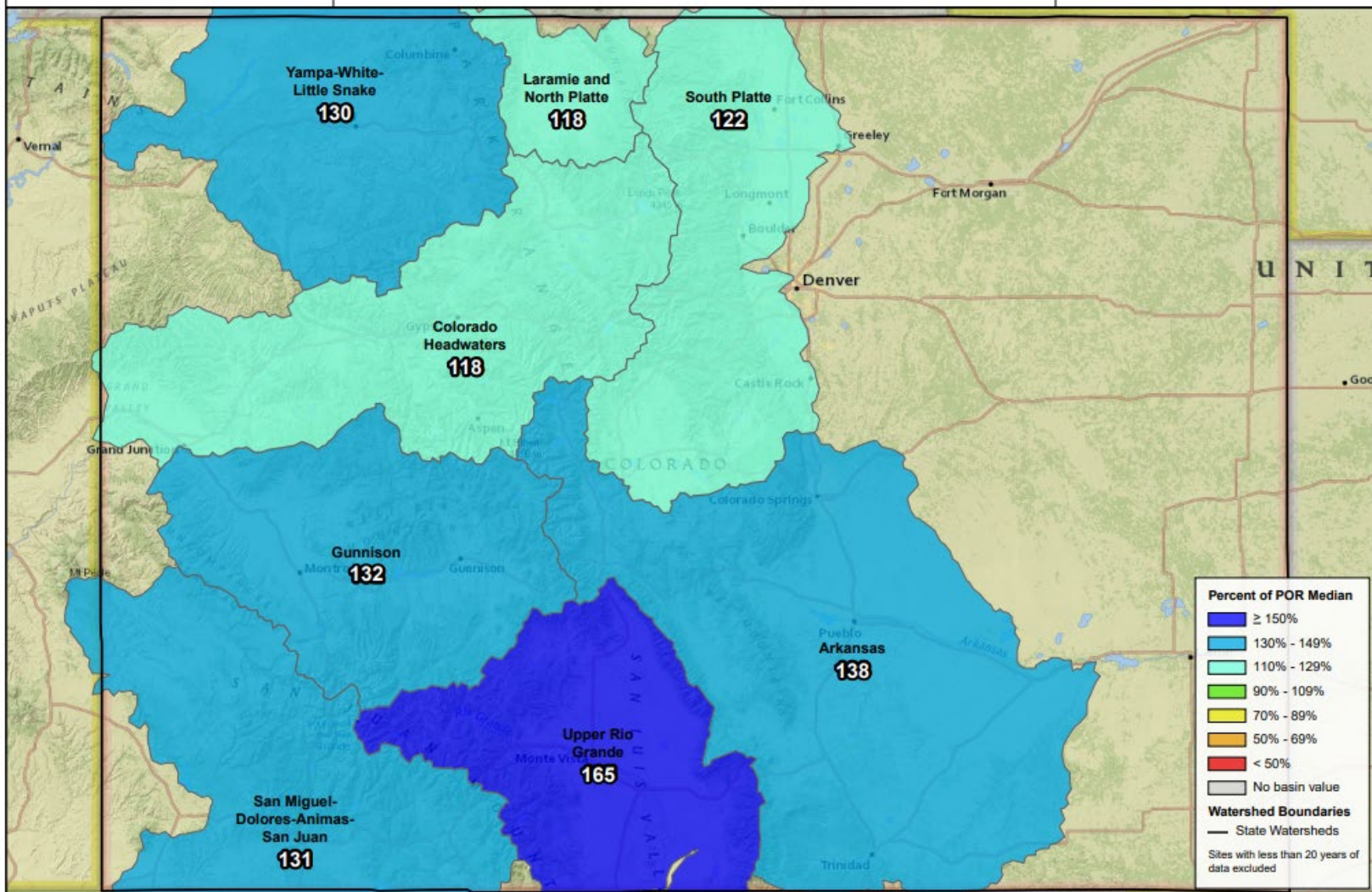


0 25 50 100 150 200 Miles

30 day Precipitation

Percent of POR Median

July 16, 2022 - August 14, 2022





Colorado Snow Surveys

PRECIPITATION IN STATE OF COLORADO

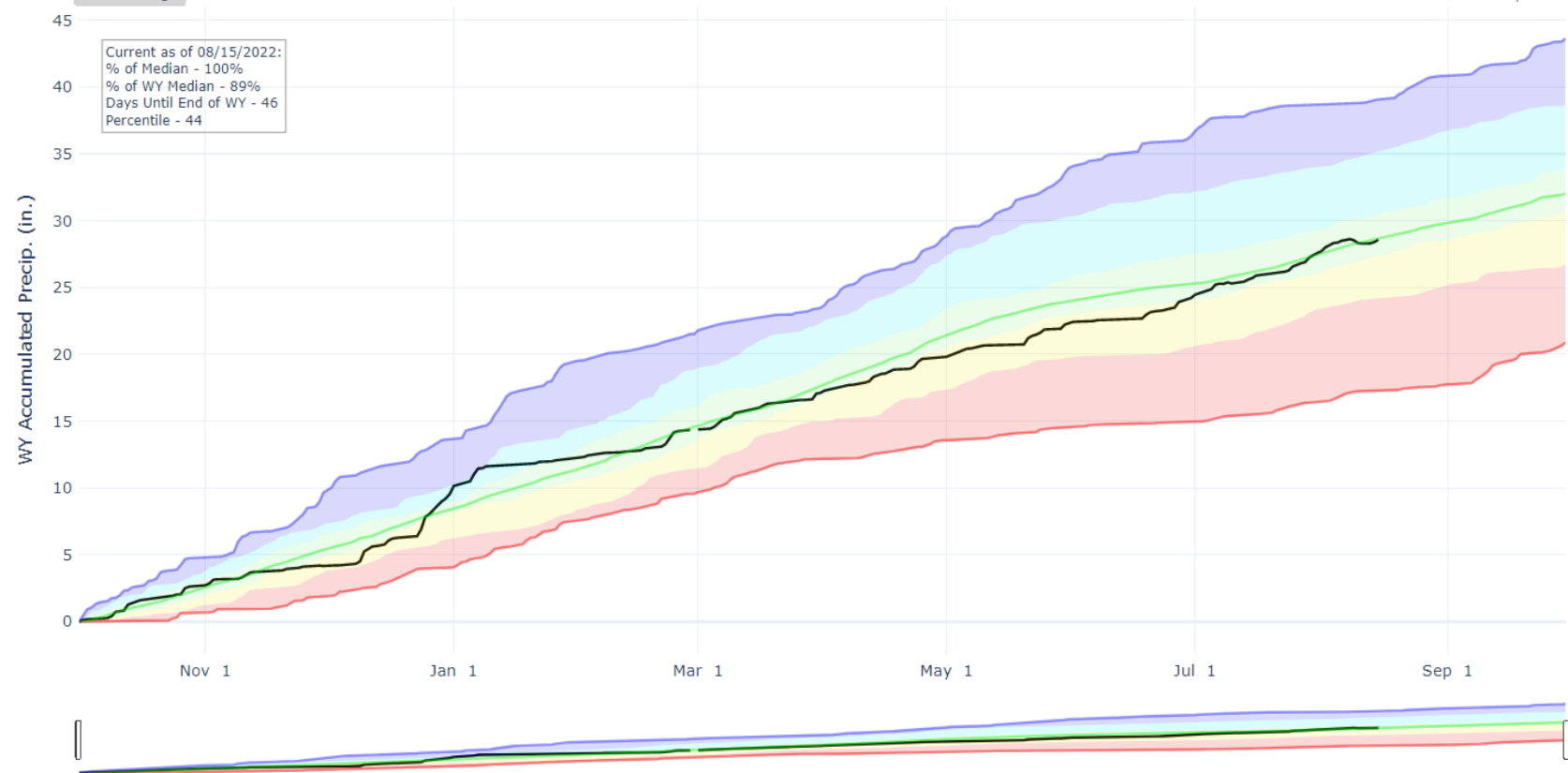
Reset Range

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

[Station List](#)

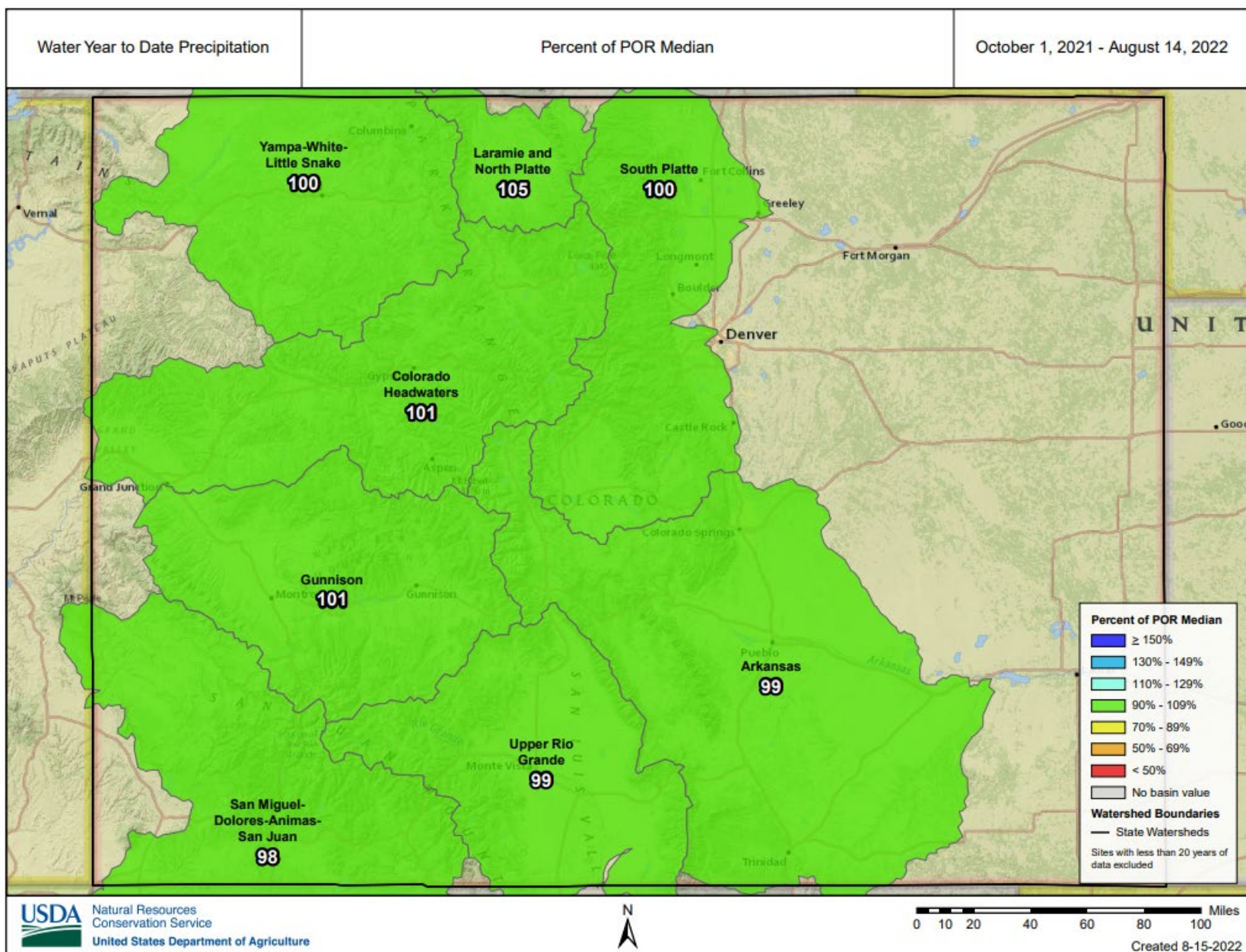
Current as of 08/15/2022:
% of Median - 100%
% of WY Median - 89%
Days Until End of WY - 46
Percentile - 44

- Max
- Median (POR)
- Median ('91-'20)
- Min
- Stats. Shading
- 2022 (116 sites)
- 2021 (117 sites)
- 2020 (117 sites)
- 2019 (117 sites)
- 2018 (117 sites)
- 2017 (117 sites)
- 2016 (117 sites)
- 2015 (117 sites)
- 2014 (117 sites)
- 2013 (117 sites)
- 2012 (117 sites)
- 2011 (117 sites)
- 2010 (115 sites)
- 2009 (112 sites)
- 2008 (109 sites)
- 2007 (106 sites)
- 2006 (106 sites)
- 2005 (105 sites)
- 2004 (99 sites)
- 2003 (98 sites)

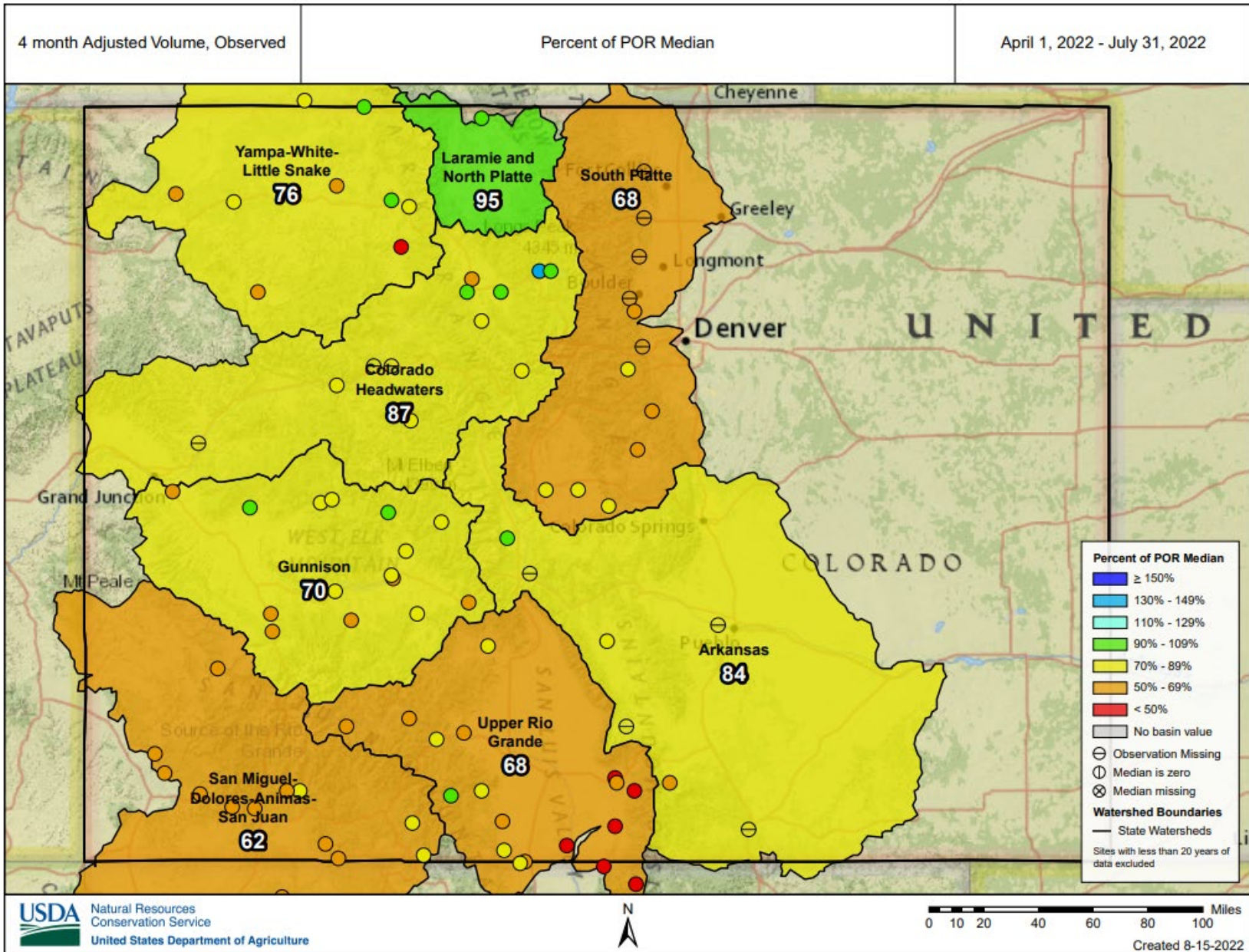


Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles
For more information visit: [30-Year Hydroclimatic Normals](#)

Colorado Snow Surveys



Colorado Snow Surveys





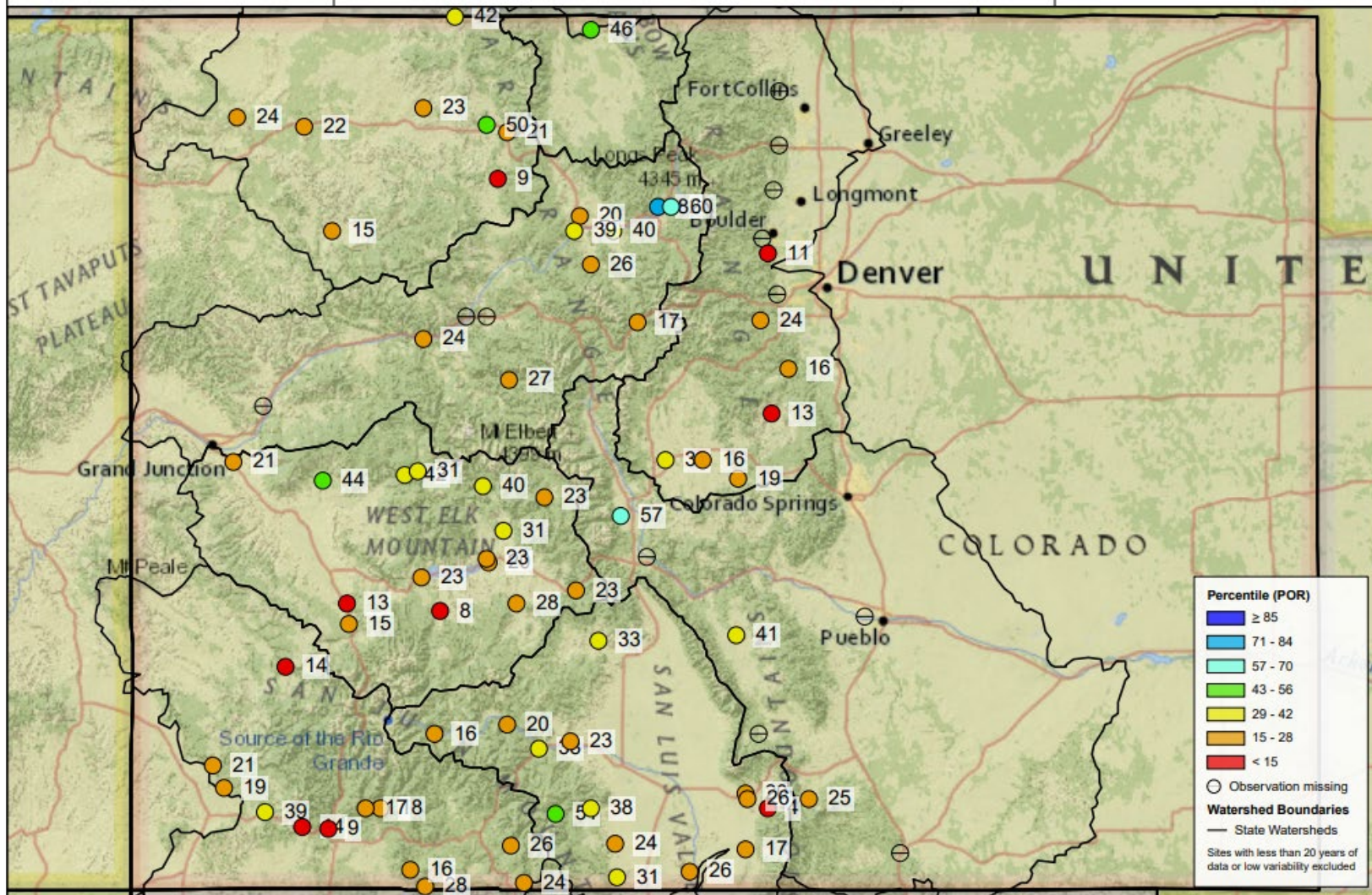
United States Department of Agriculture

Colorado Snow Surveys

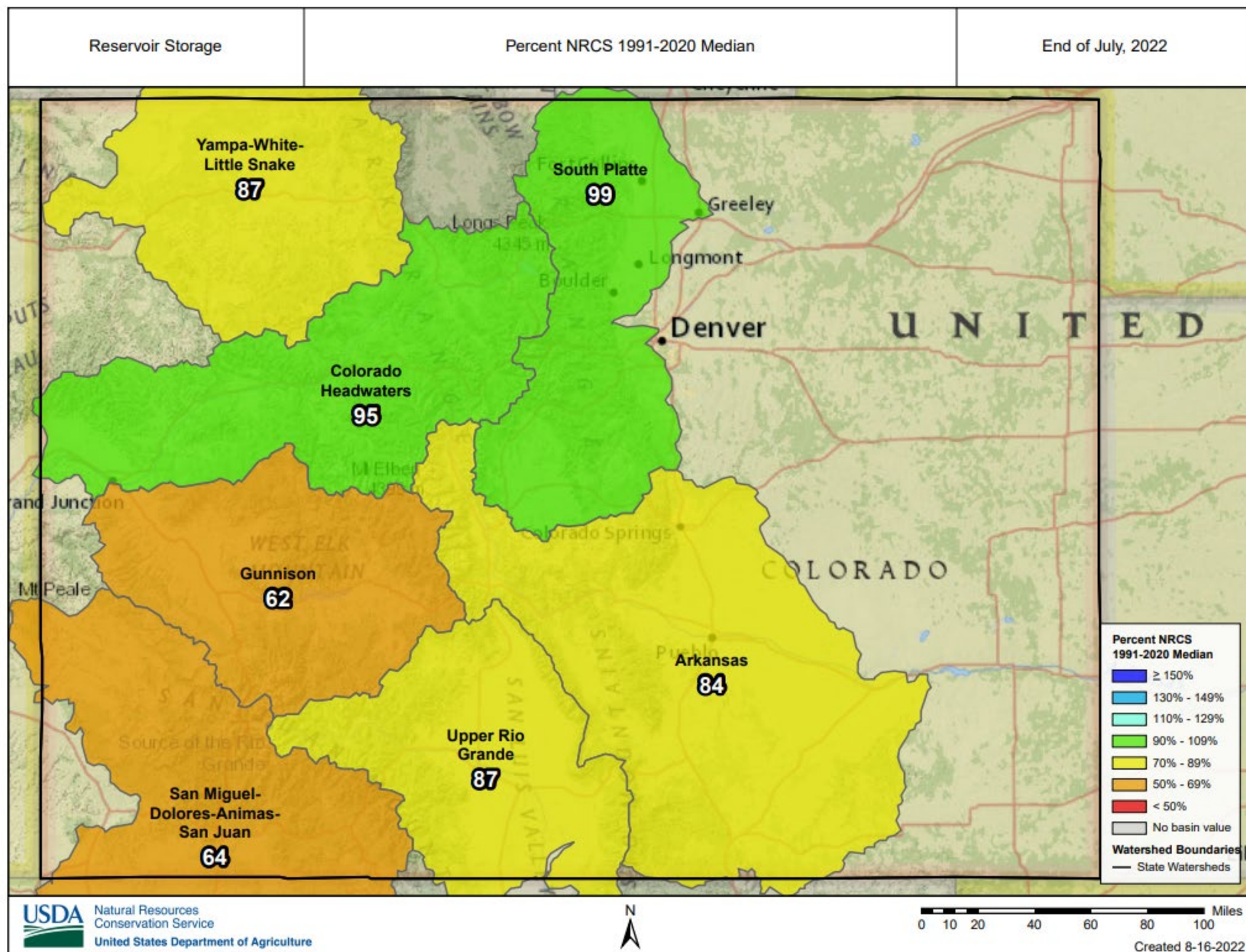
4 month Adjusted Volume, Observed

Percentile (POR)

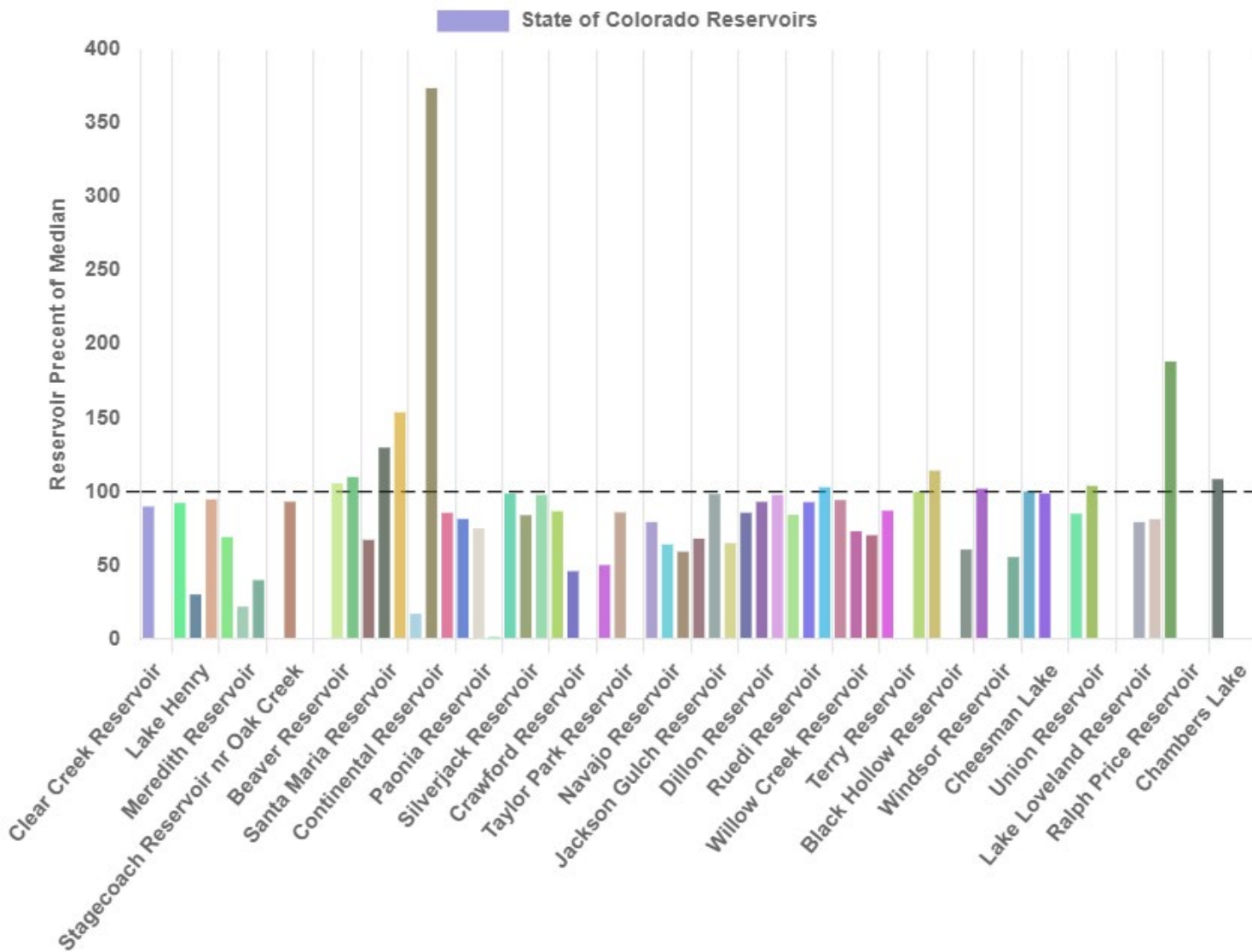
April 1, 2022 - July 31, 2022

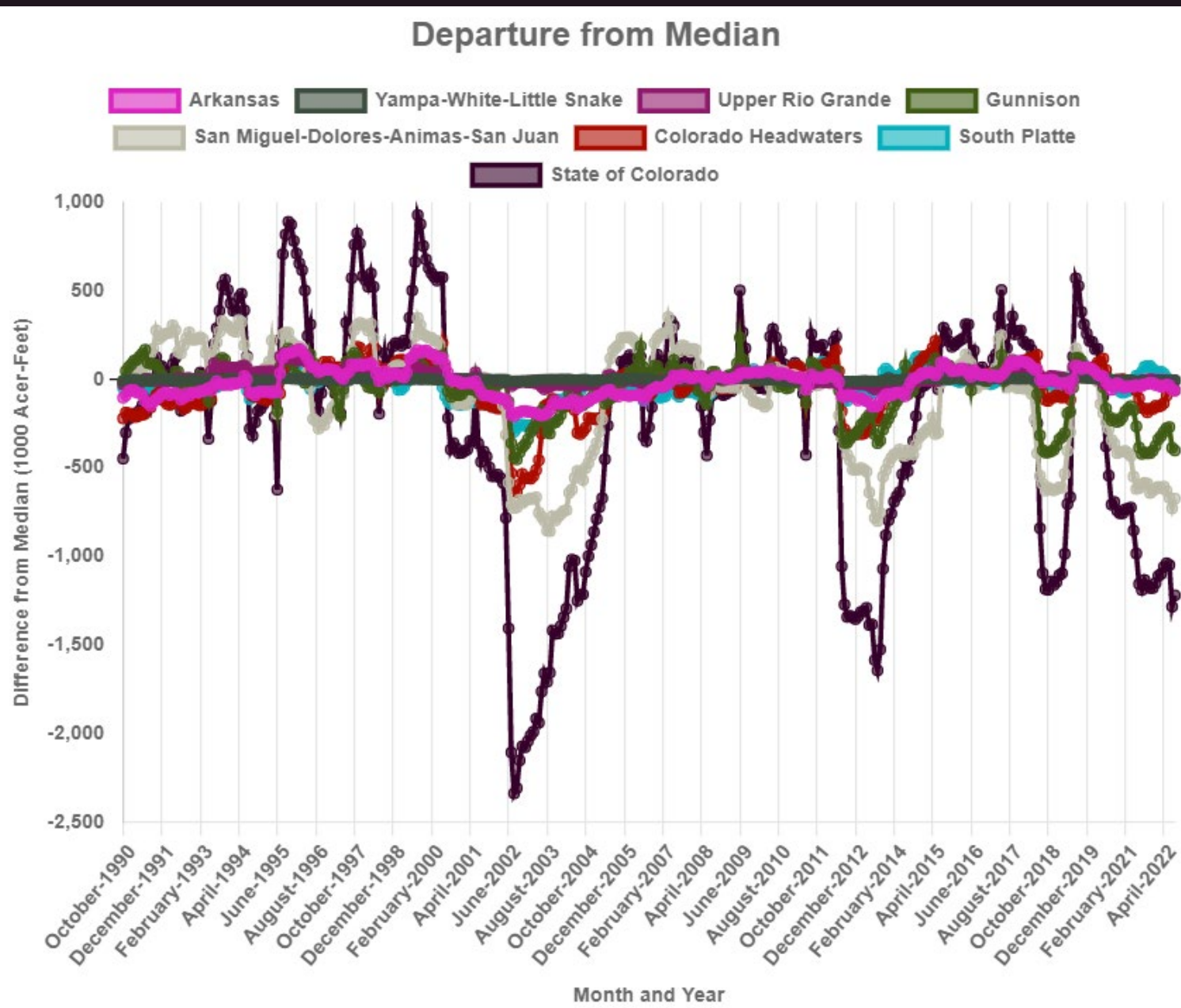


Colorado Snow Surveys



Reservoir Conditions for State of Colorado on August 1st 2022





Summary

- All major basins have continued to receive above normal mountain precipitation over the last 30 days.
 - The Colorado and South Platte basins have received the most precipitation over the last two weeks.
- Well below normal streamflows were observed across most of the state for the April-July time period.
 - The lowest streamflow volumes, relative to normal, were observed in the combined San Miguel, Dolores, Animas, and San Juan basins.
 - Half of the streamflow forecast points in the state were in the bottom 25th percentile of observed streamflow volume.
- All major basins continue to hold below normal reservoir storage values.
 - The Colorado and South Platte basins have the most plentiful storage at 95 and 99 percent of normal, respectively.
 - The Gunnison and combined basins of Southwest Colorado hold the least at 62 and 64 percent of normal.



United States Department of Agriculture

Colorado Snow Surveys

USBR Precipitation Measurement Prize Competition



- Prize Competition to develop a novel precipitation measurement device to improve monitoring in remote areas.
- \$300k in prize money available
- First round is open until the last week in October
- [Counting Every Drop Challenge | Freelancer](#)
- [Reclamation launches new prize competition looking for improved precipitation measurement devices \(usbr.gov\)](#)



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

August 16th, 2022

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

Hydrologist

Asst. Snow Survey Supervisor

720-544-2852

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



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