



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

March 17th, 2020

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos

Hydrologist

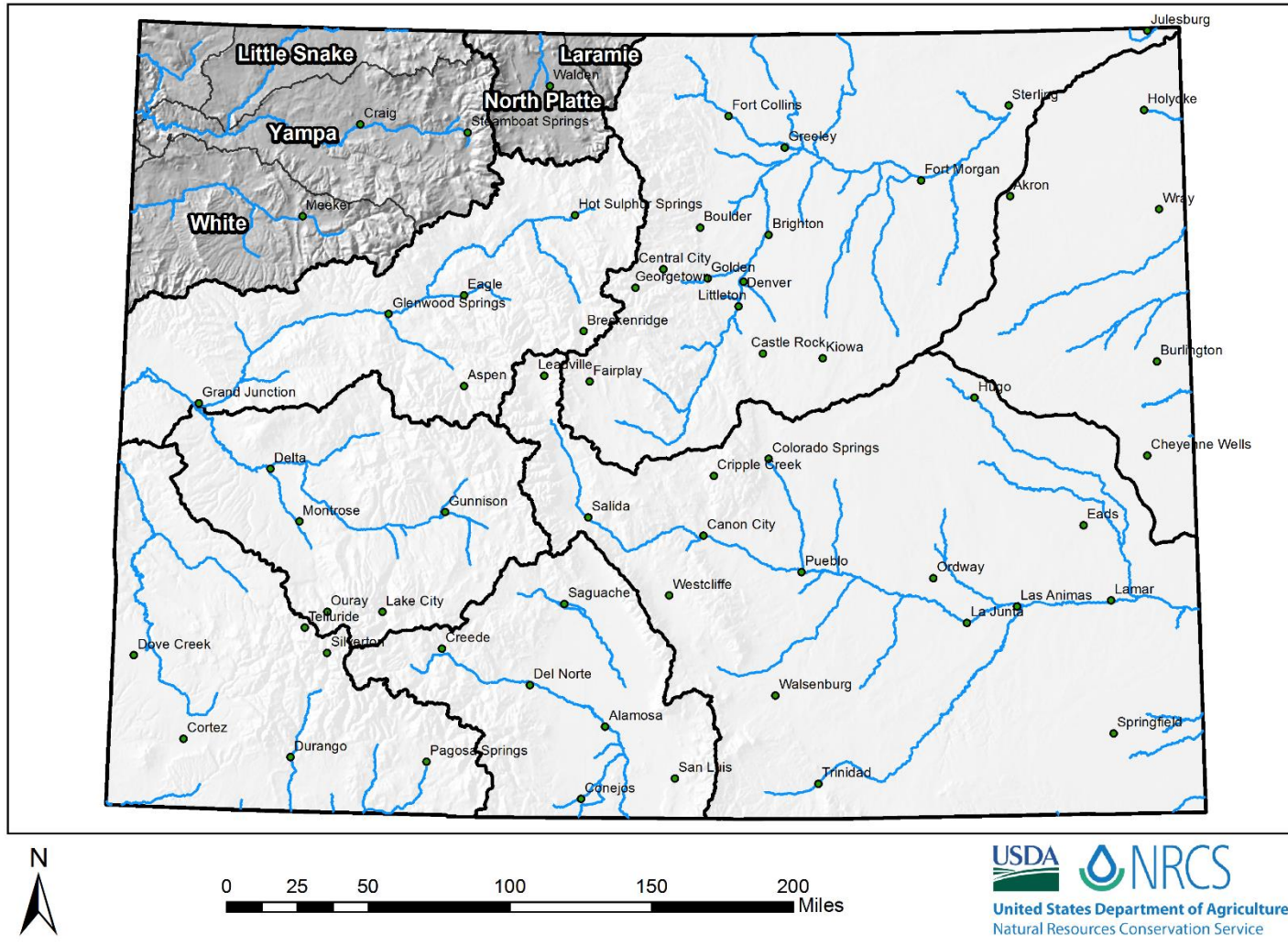
Colorado Snow Survey Supervisor

720-544-2852

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

Major Basin Summary

Yampa, White, and North Platte River Basins





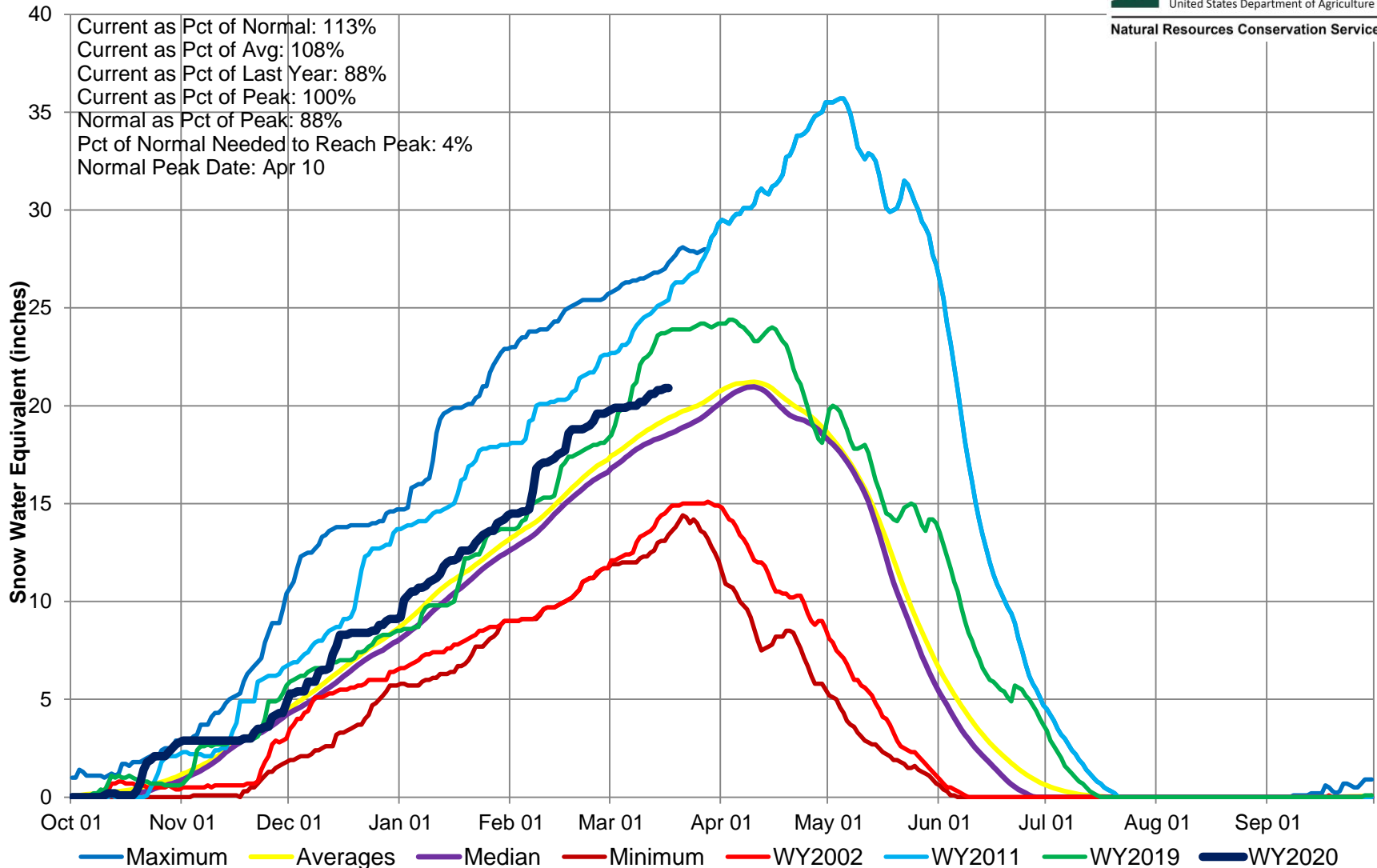
Yampa and White River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



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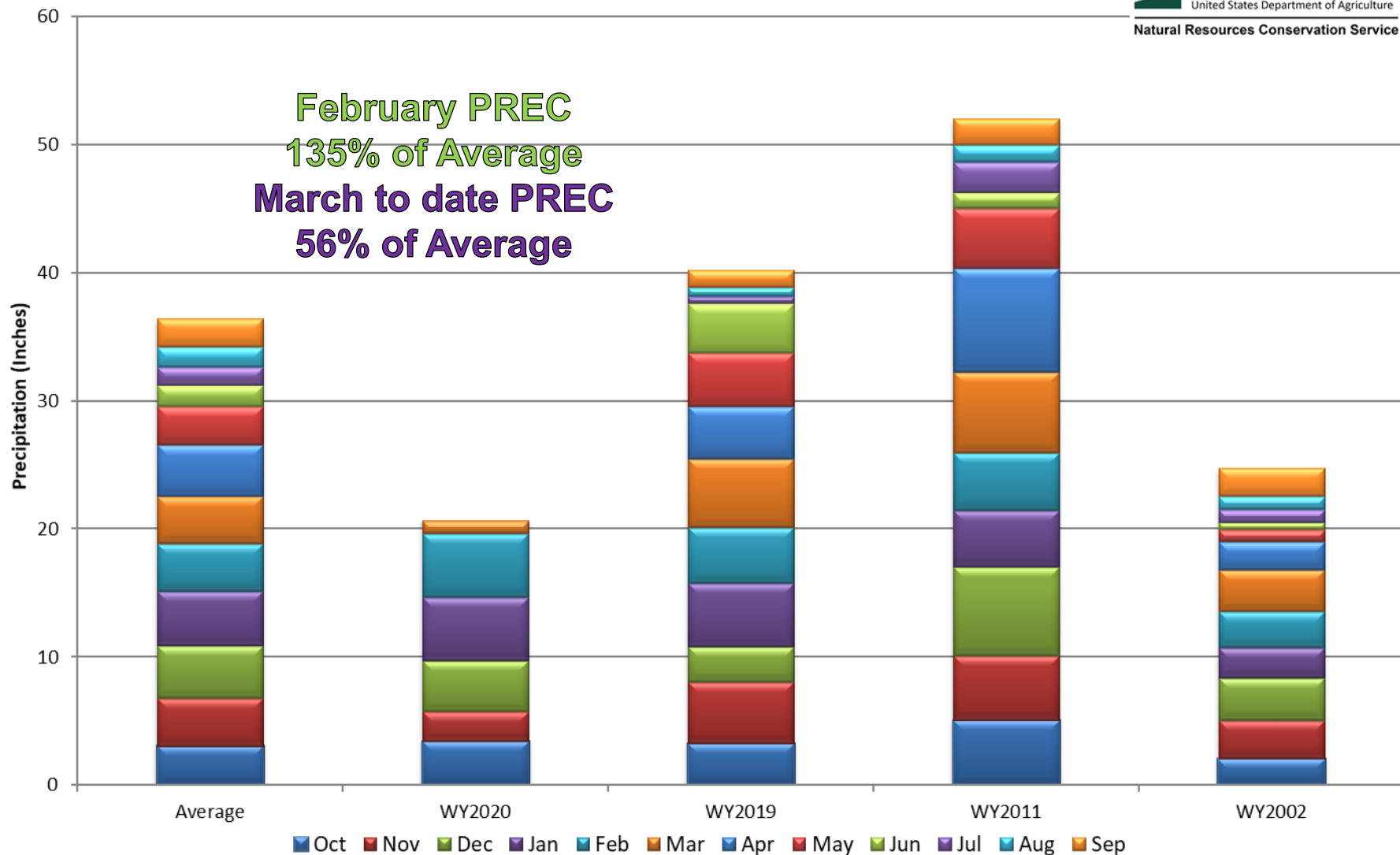
Yampa and White River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020

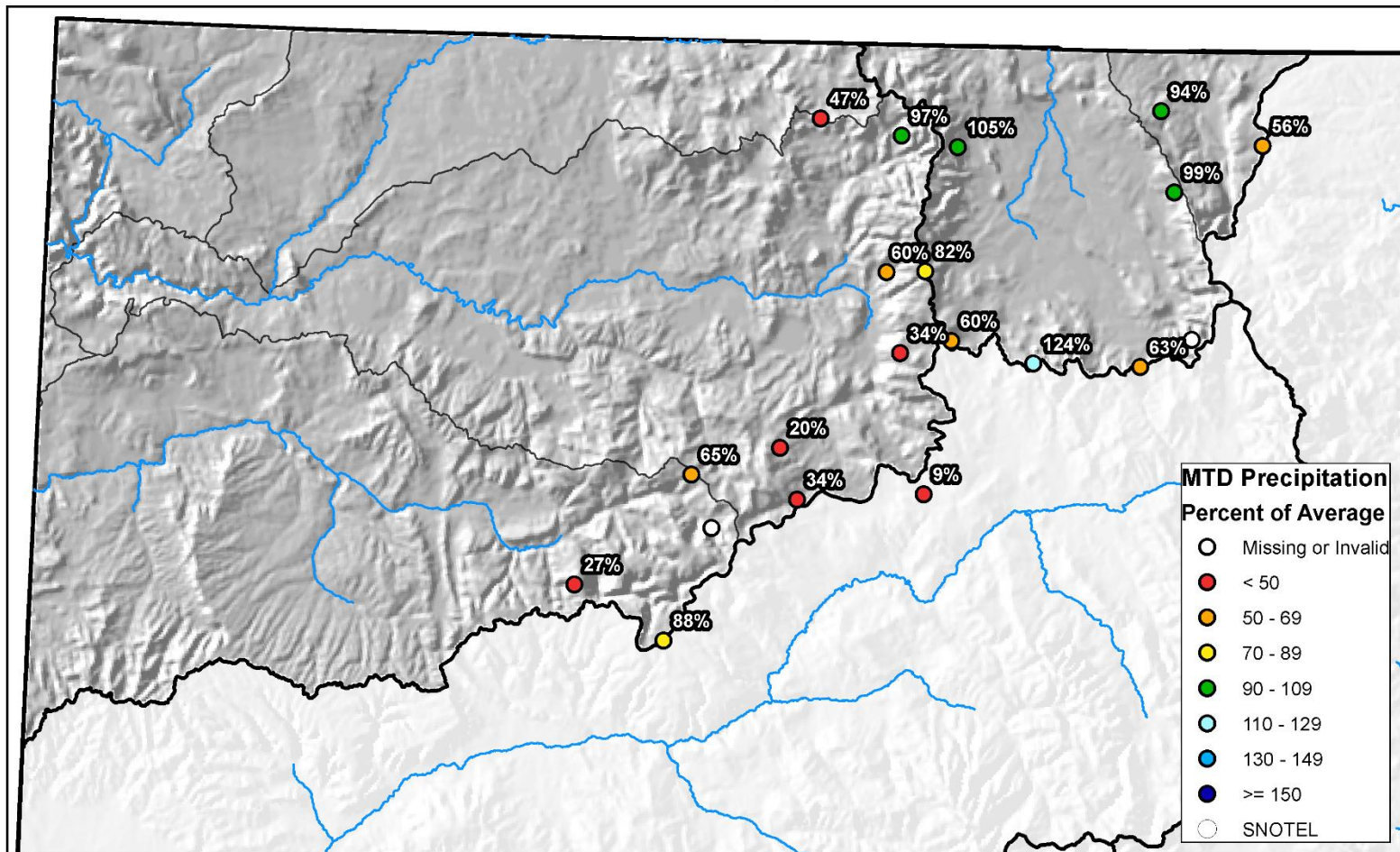


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Yampa, White, and North Platte River Basins Month to Date Precipitation Summary Current as of Mar 17, 2020



0 10 20 40 60 80 Miles



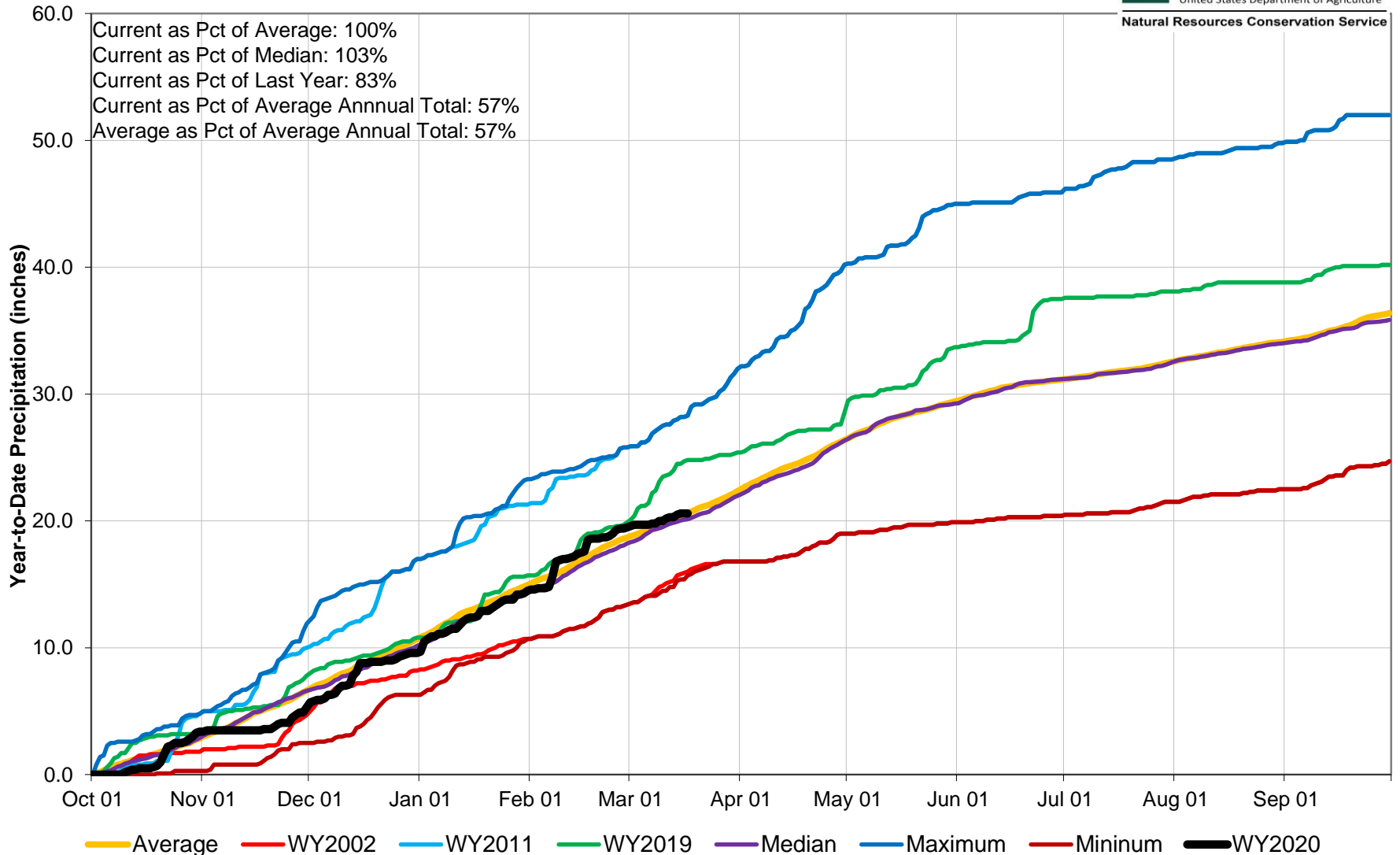
Yampa and White River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



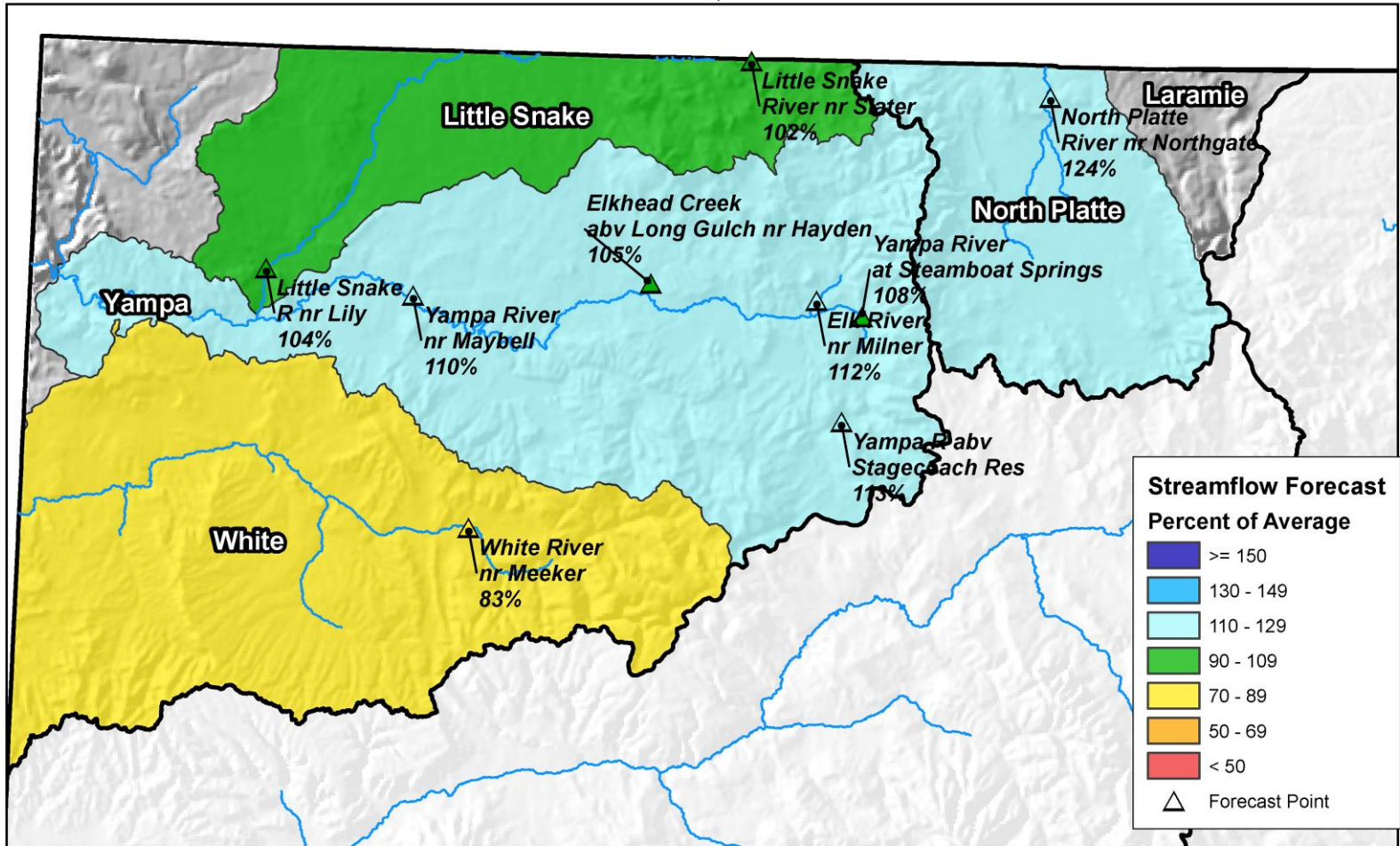
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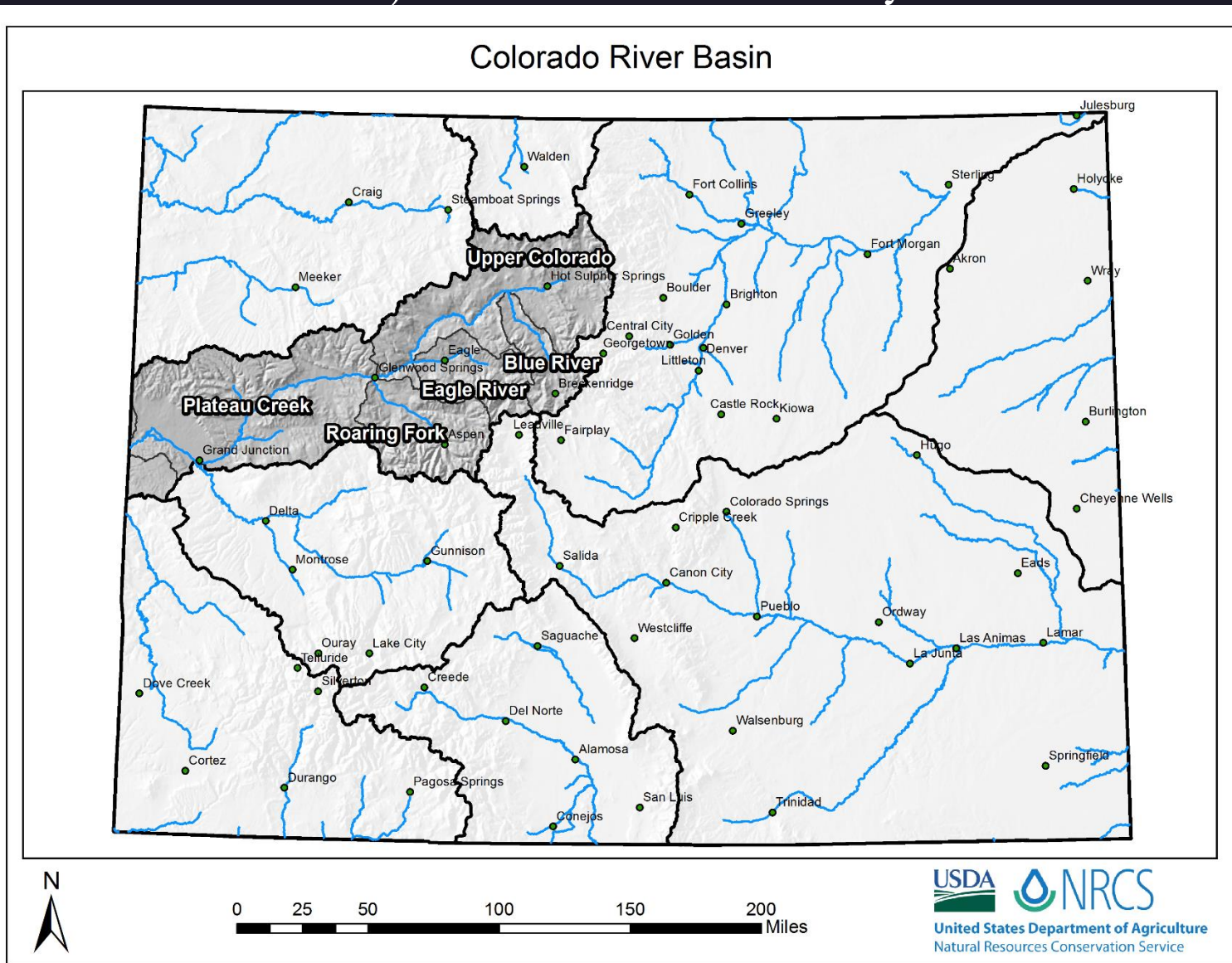


Yampa, White, and North Platte River Basins Streamflow Forecast Summary

March 1, 2020



Major Basin Summary





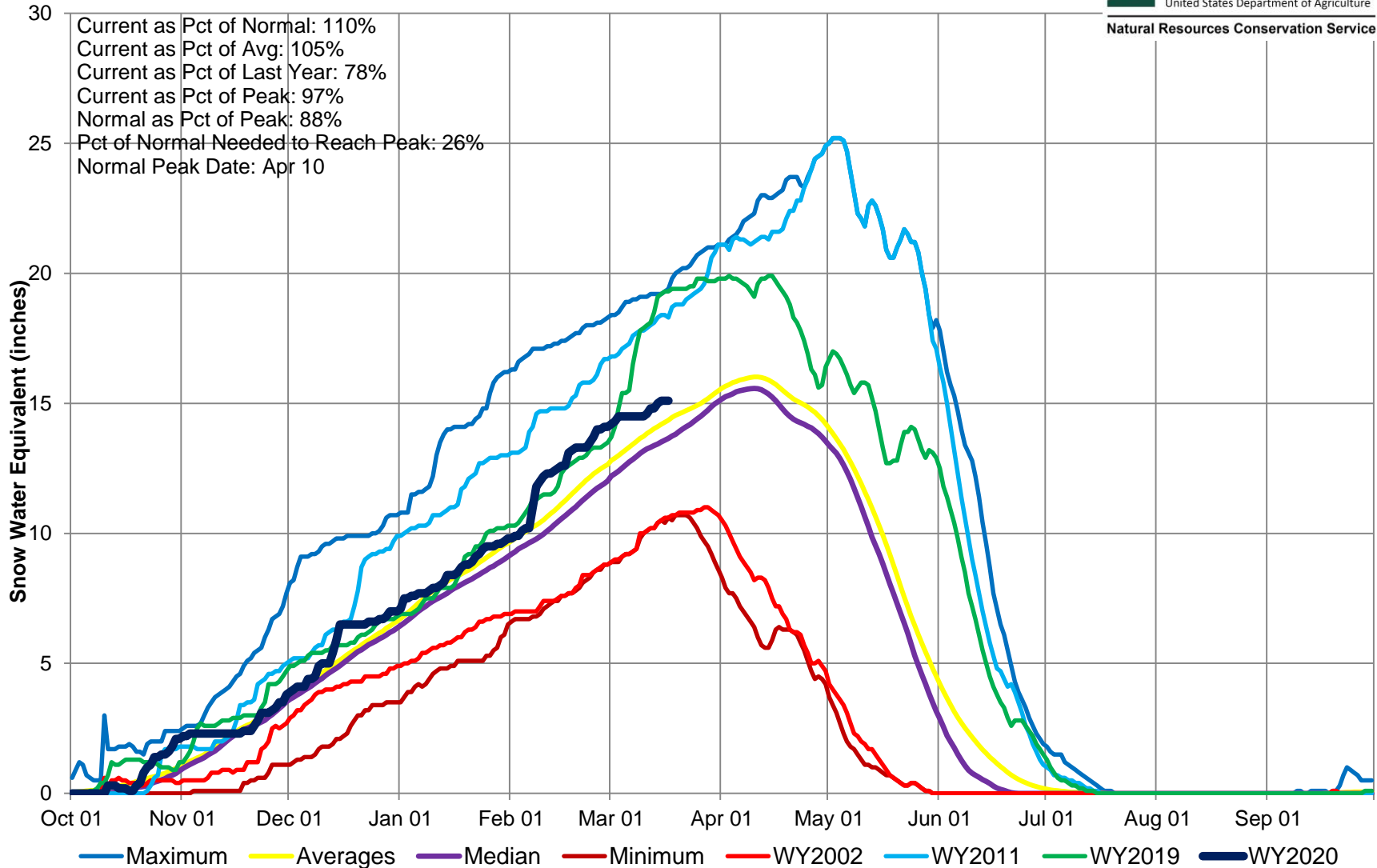
Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



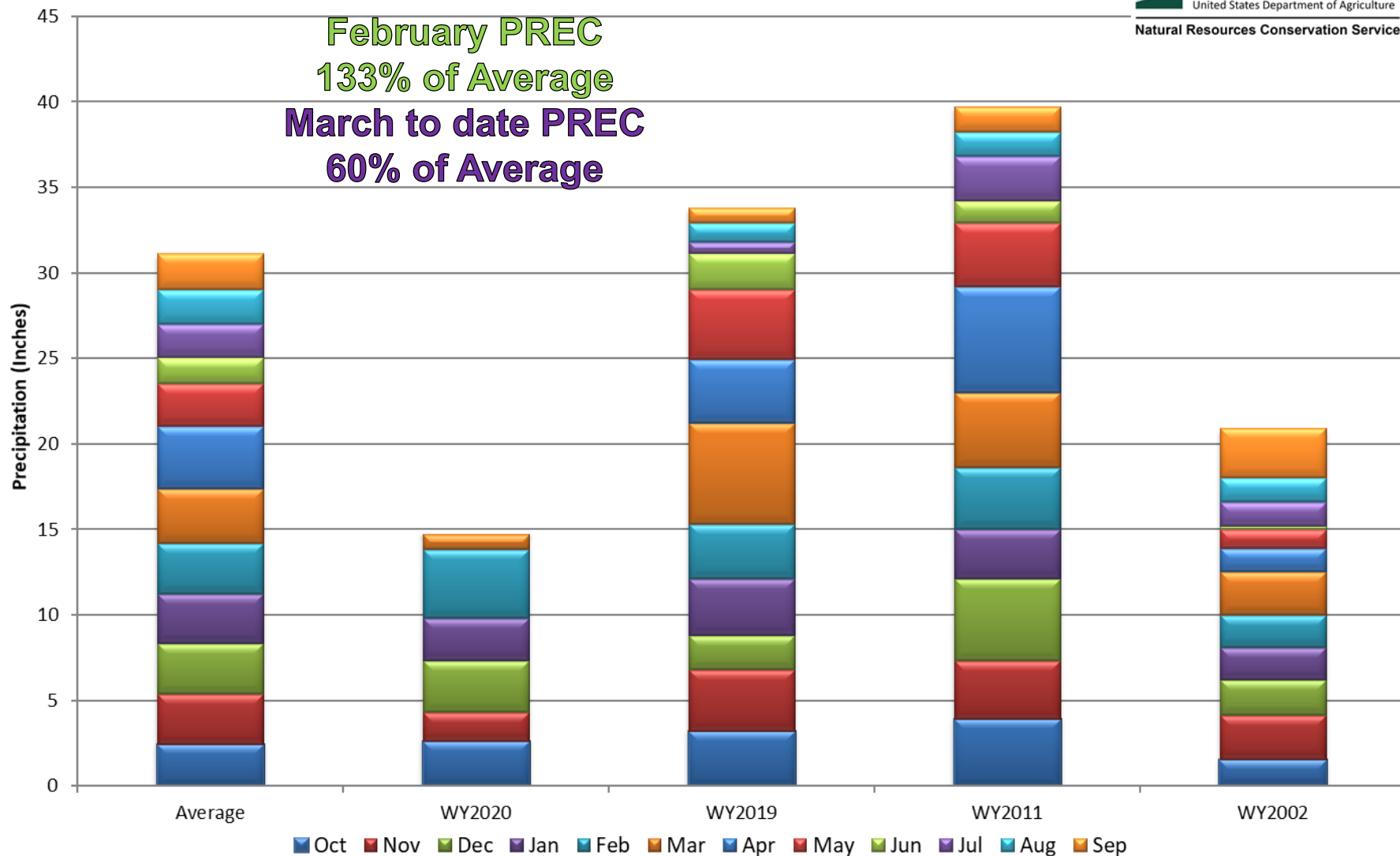
United States Department of Agriculture

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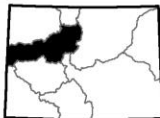
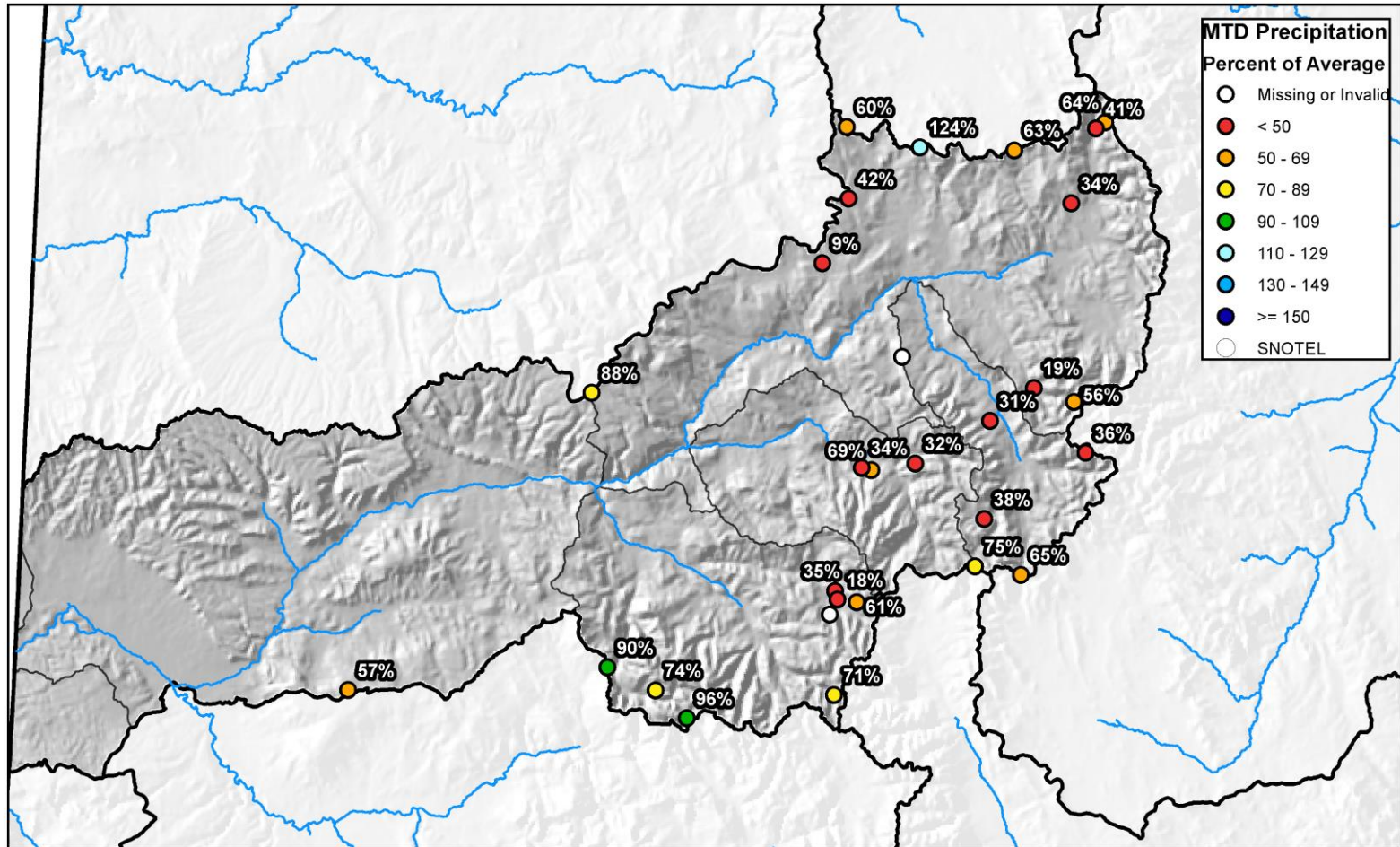
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



Upper Colorado River Basin Month to Date Precipitation Summary

Current as of Mar 17, 2020





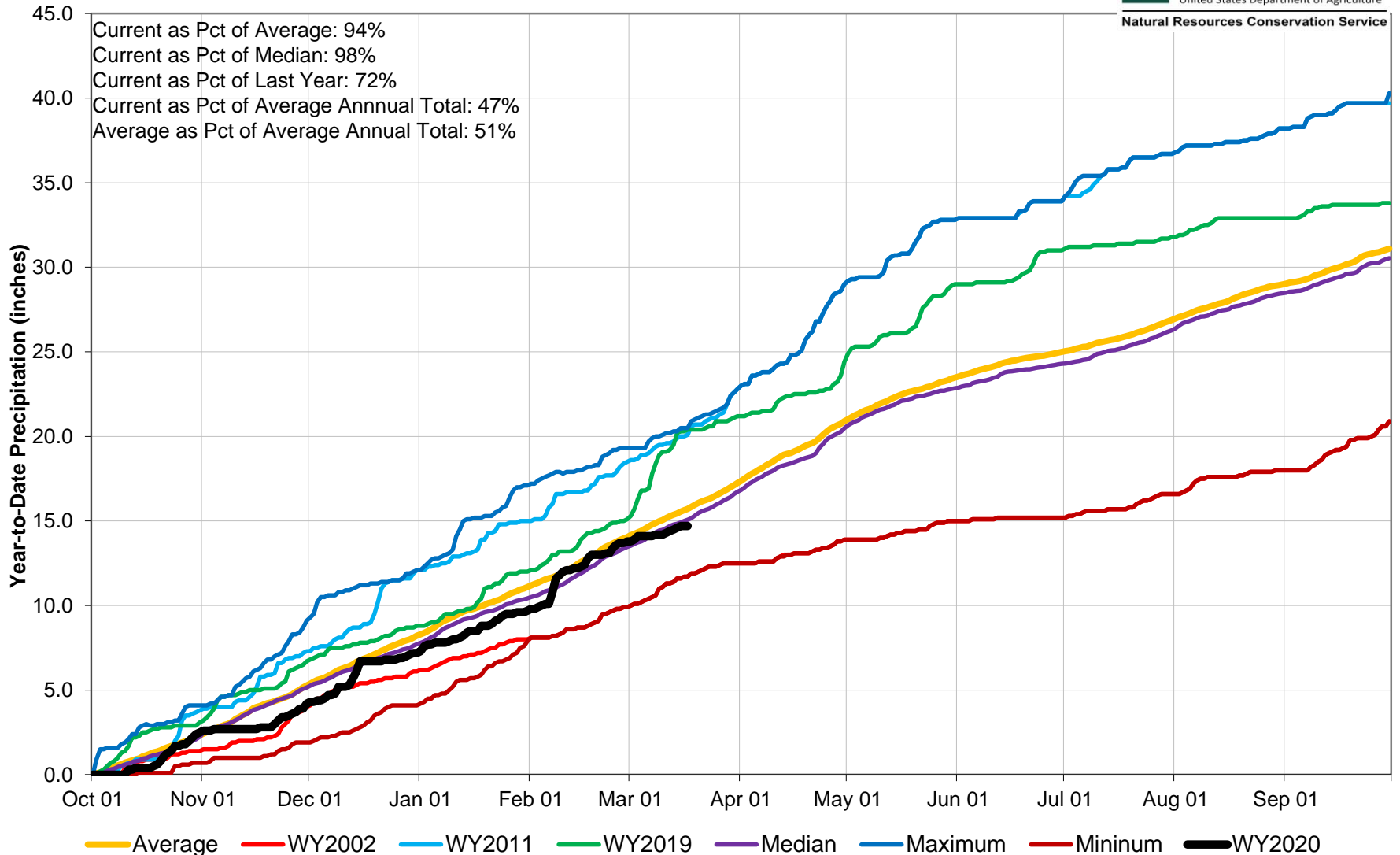
Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

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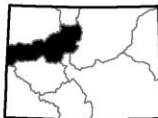
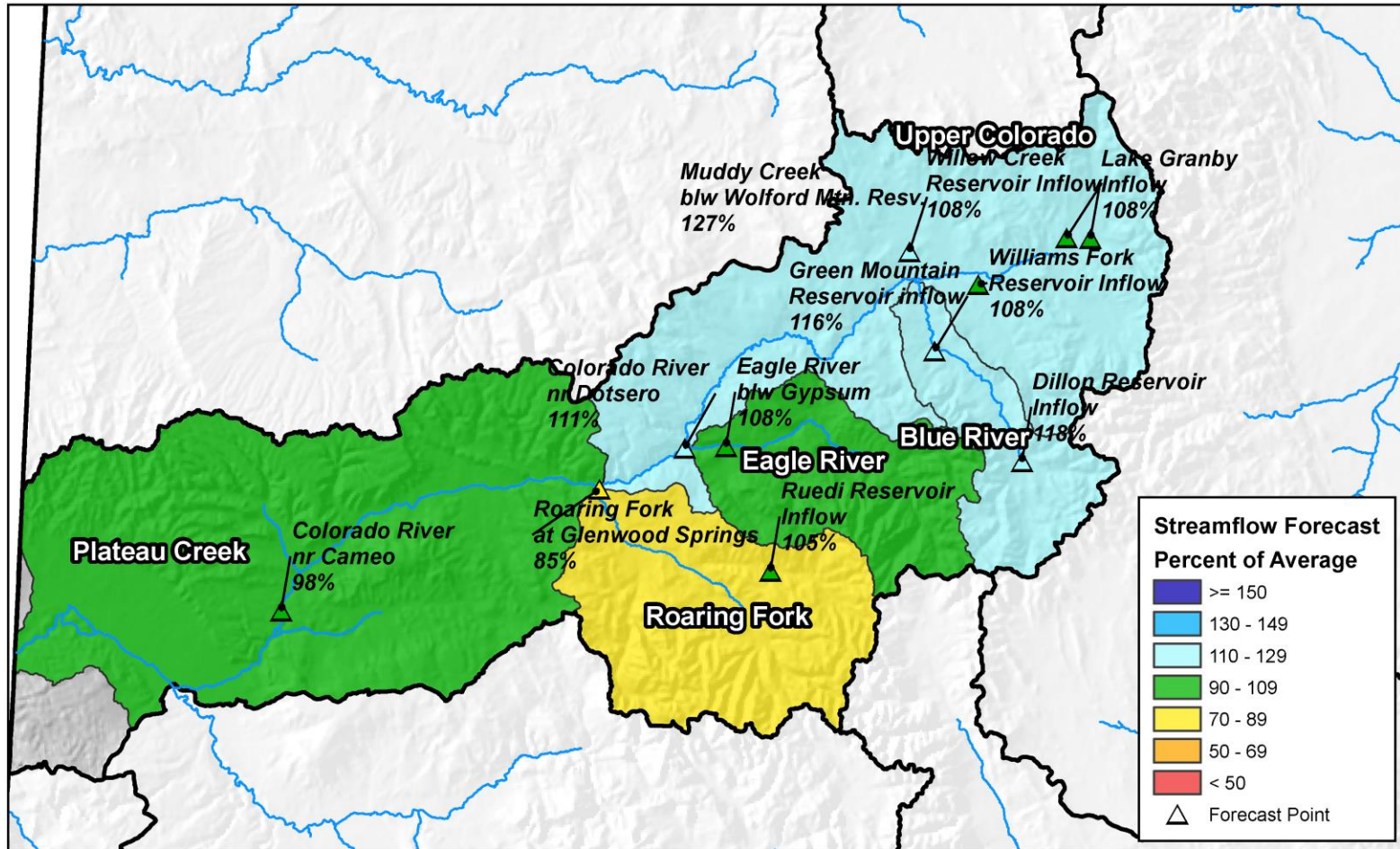
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Upper Colorado River Basin Streamflow Forecast Summary

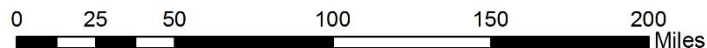
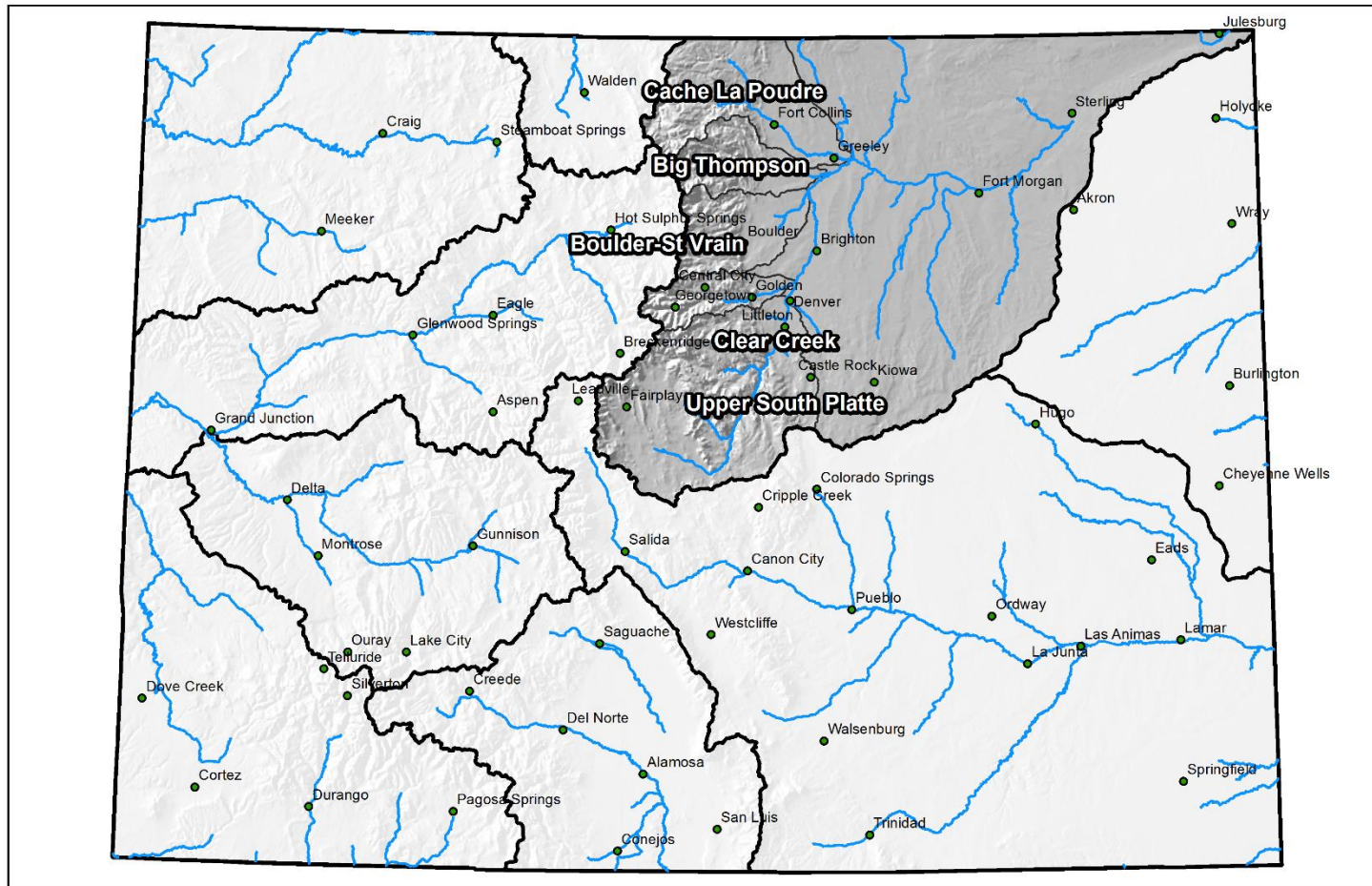
March 1, 2020



0 10 20 40 60 80 Miles

Major Basin Summary

South Platte River Basin





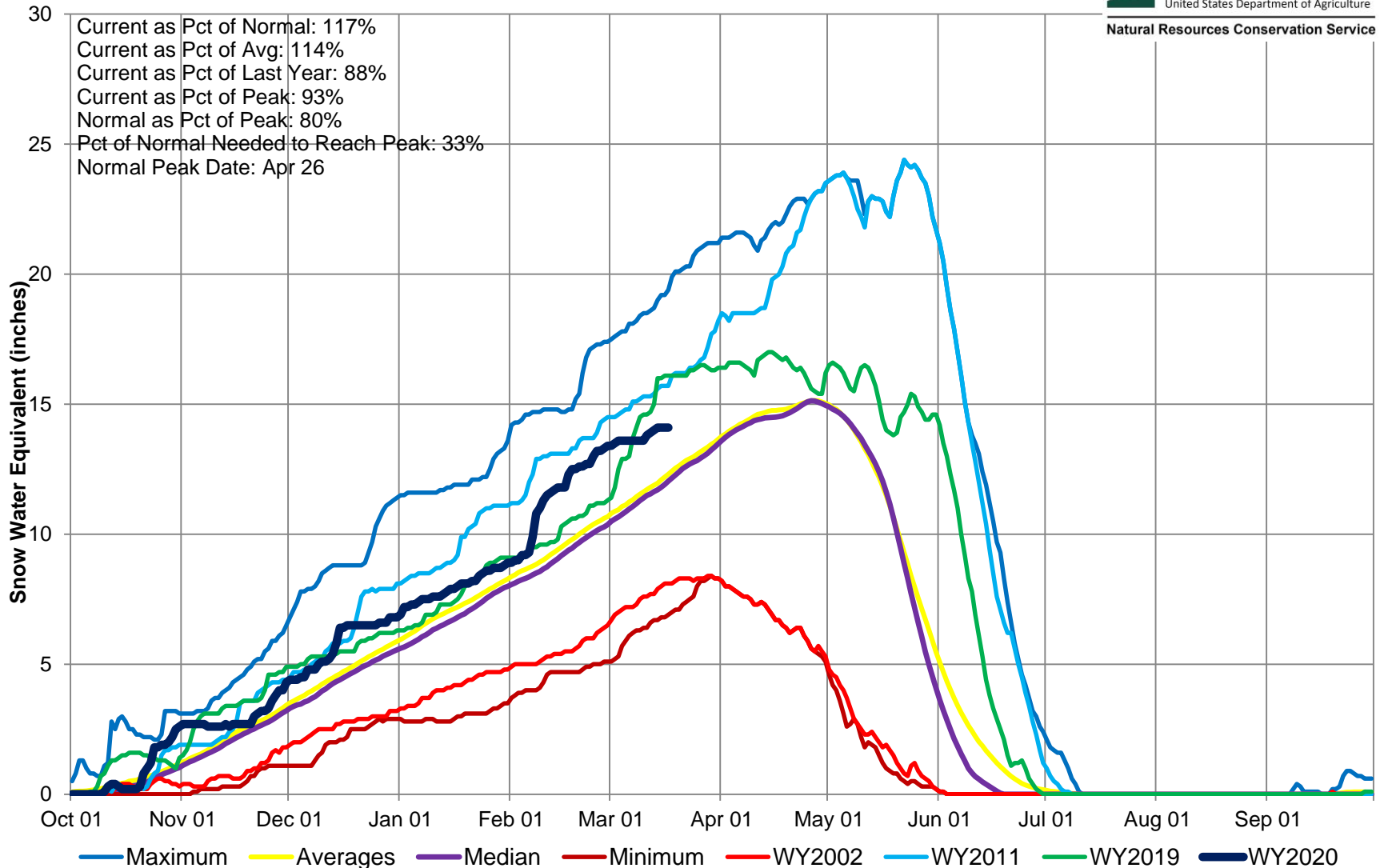
South Platte River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



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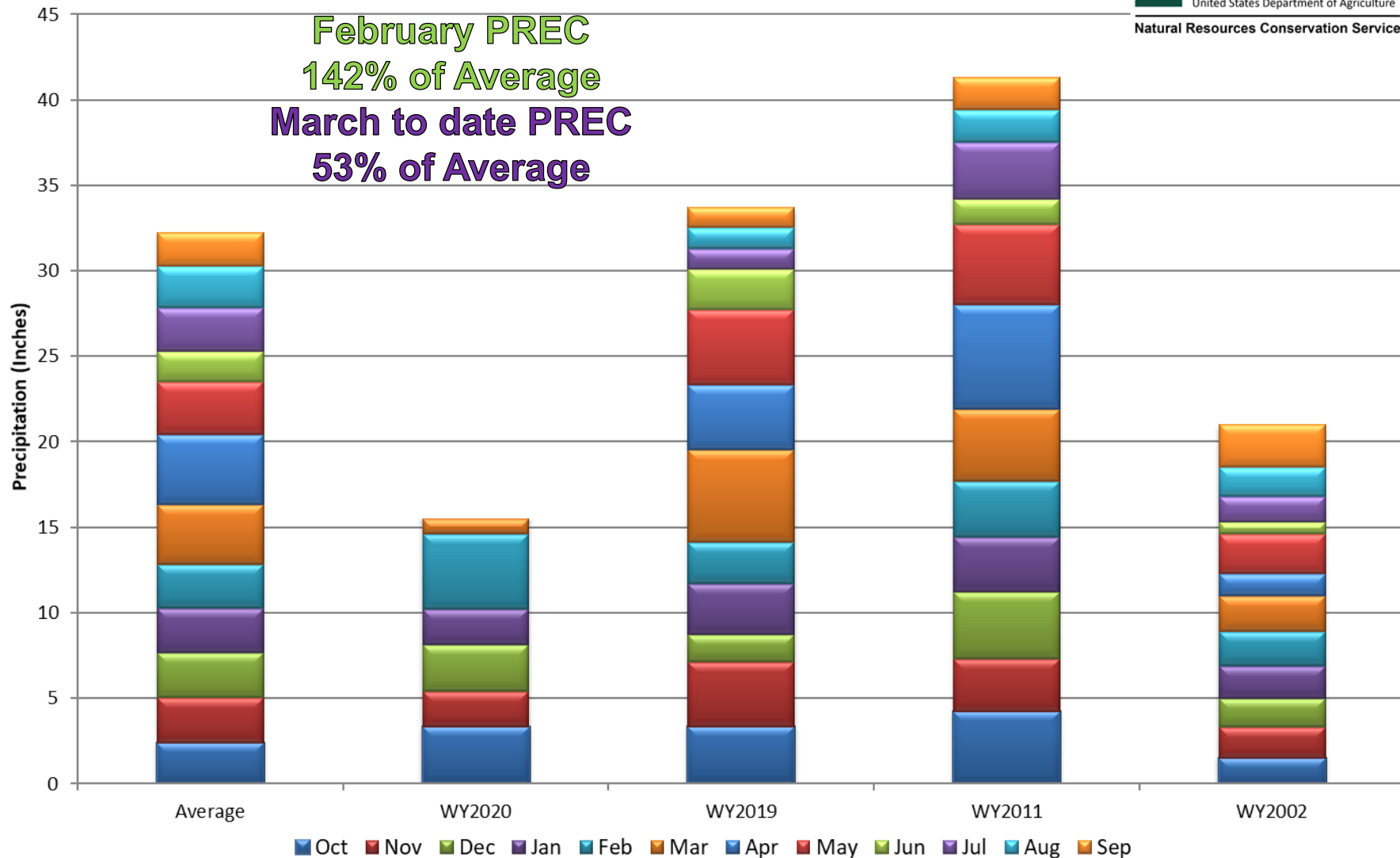
South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



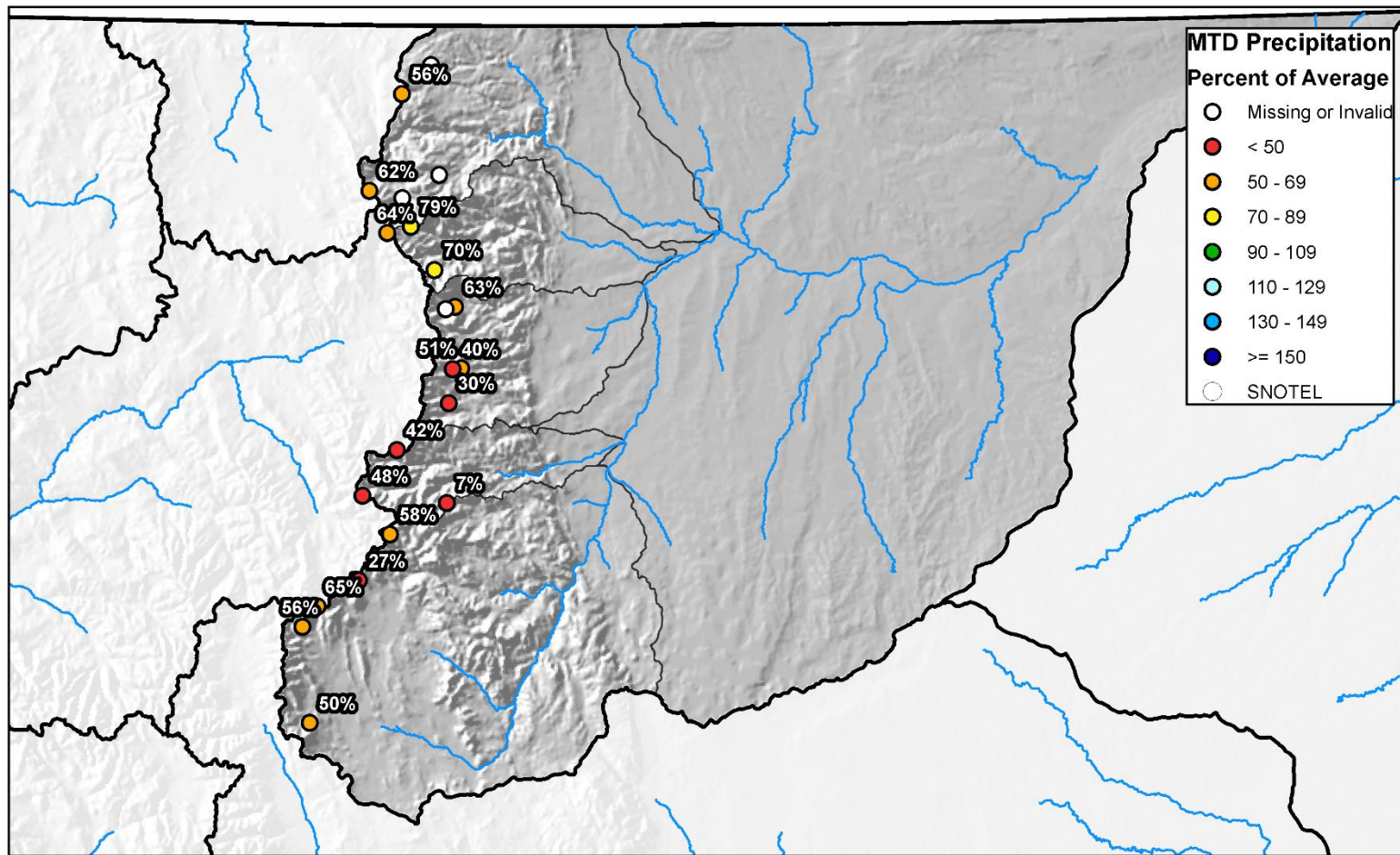
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South Platte River Basin Month to Date Precipitation Summary

Current as of Mar 17, 2020



0 10 20 40 60 80 Miles



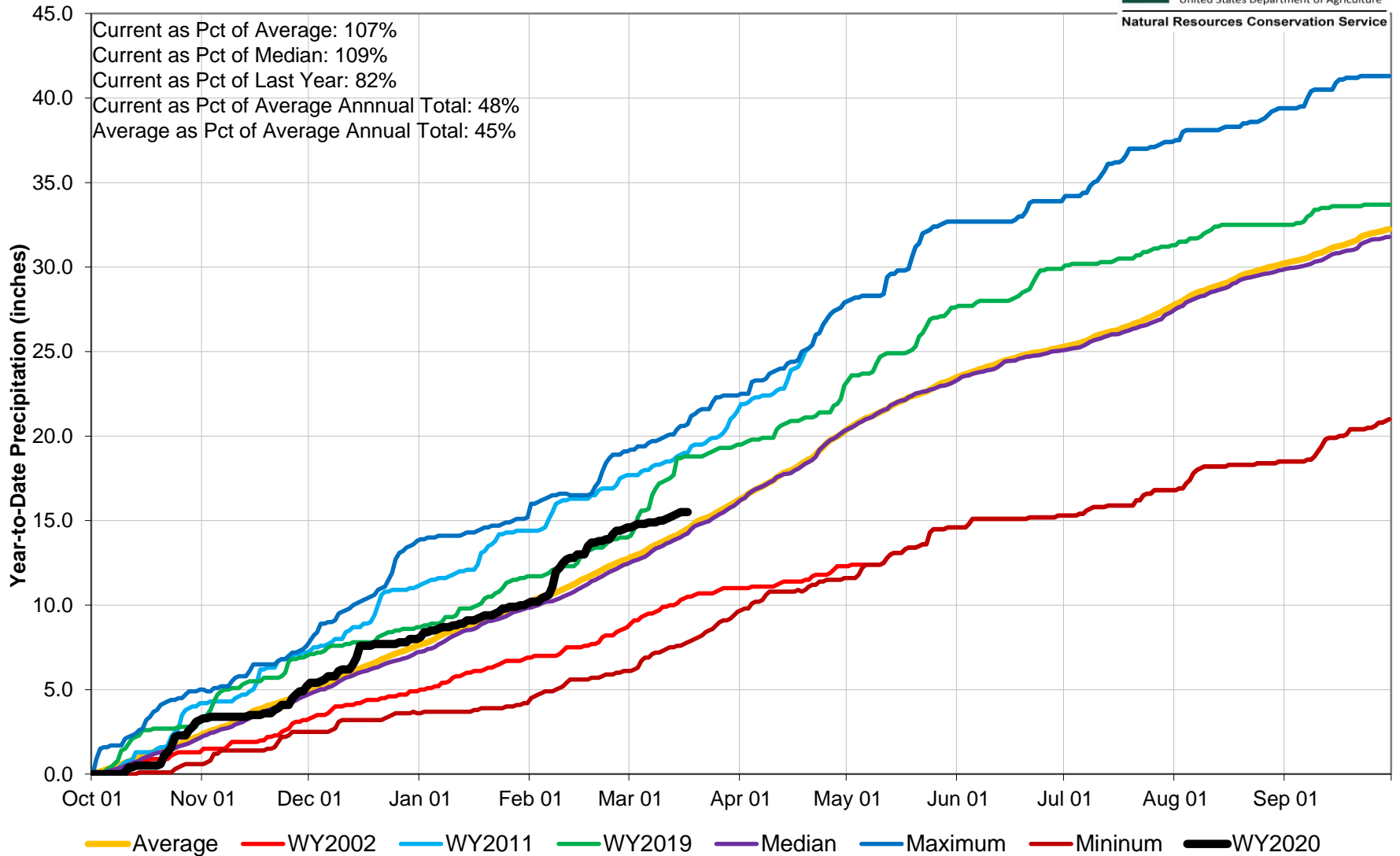
South Platte River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



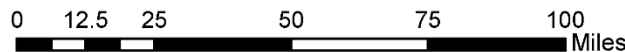
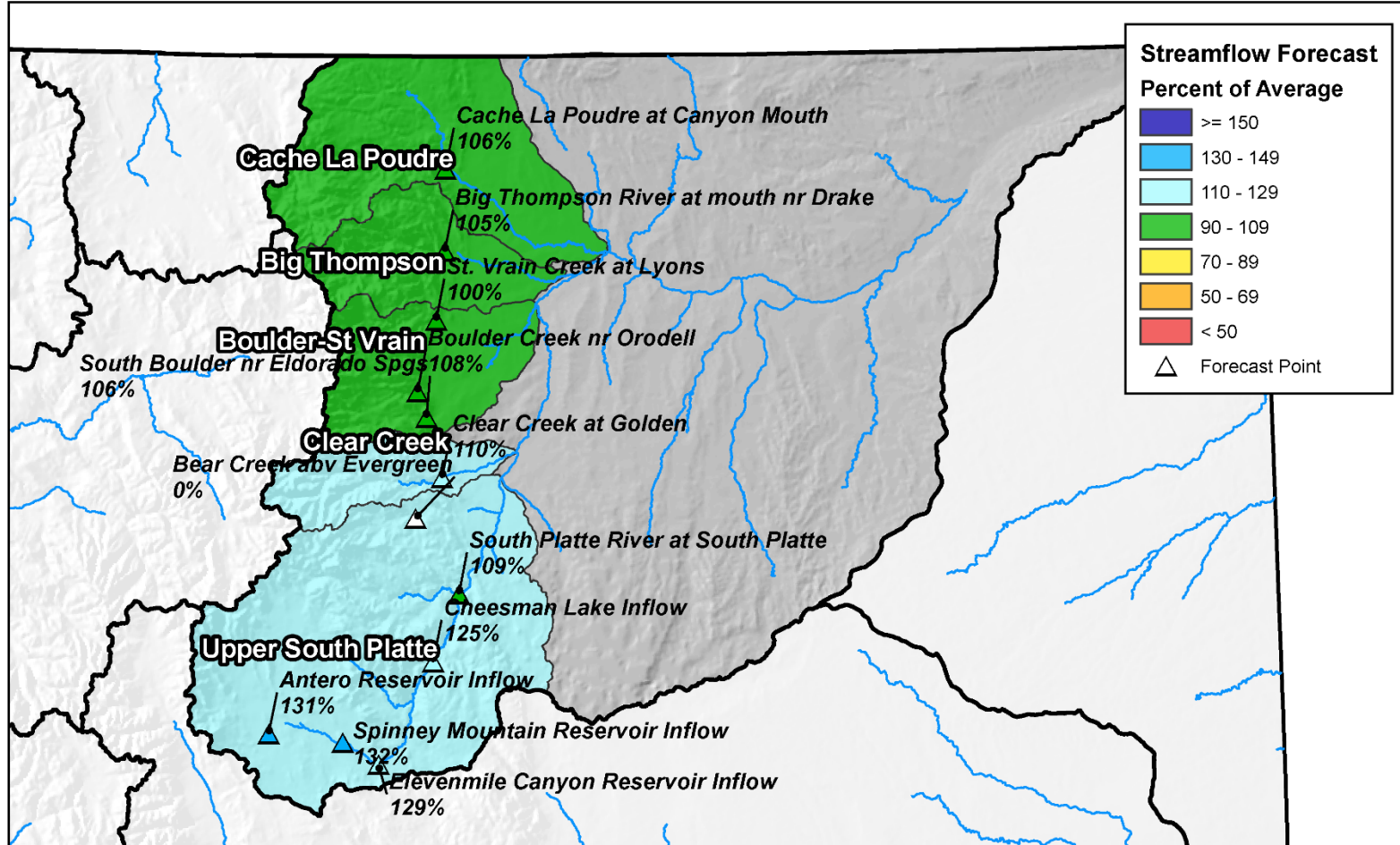
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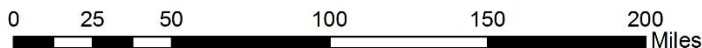
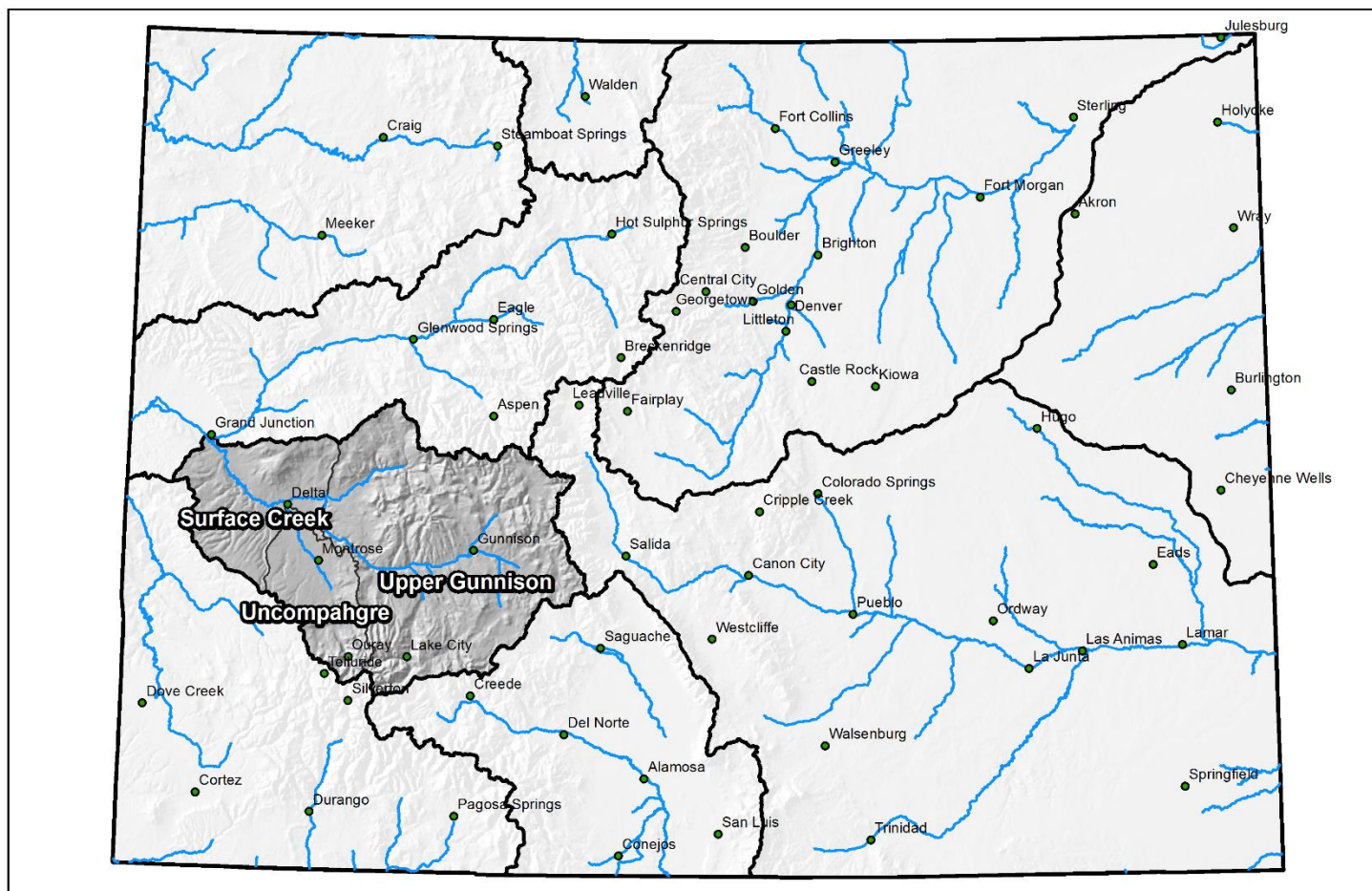
South Platte River Basin Streamflow Forecast Summary

March 1, 2020



Major Basin Summary

Gunnison River Basin





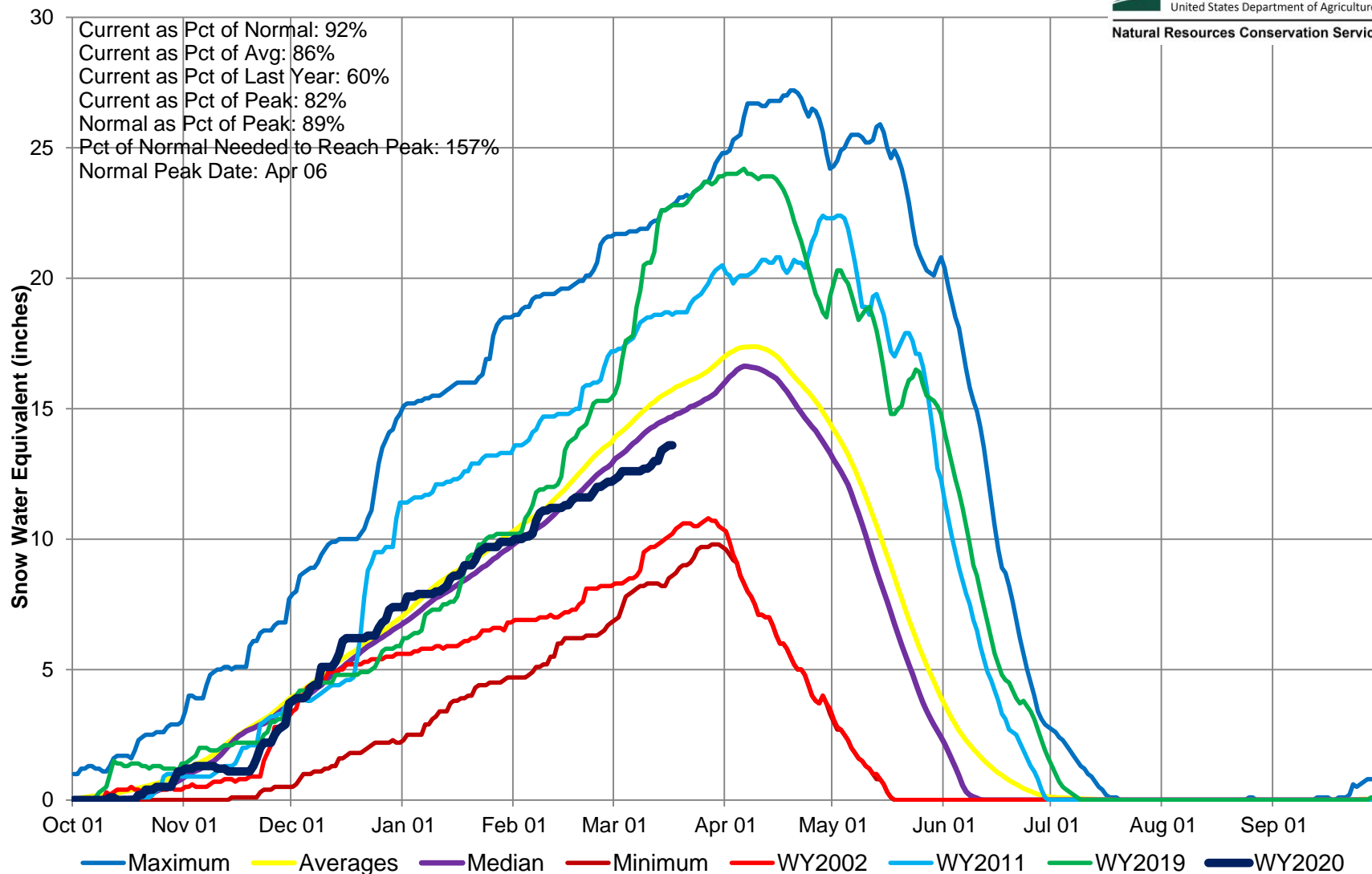
Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



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Natural Resources Conservation Service



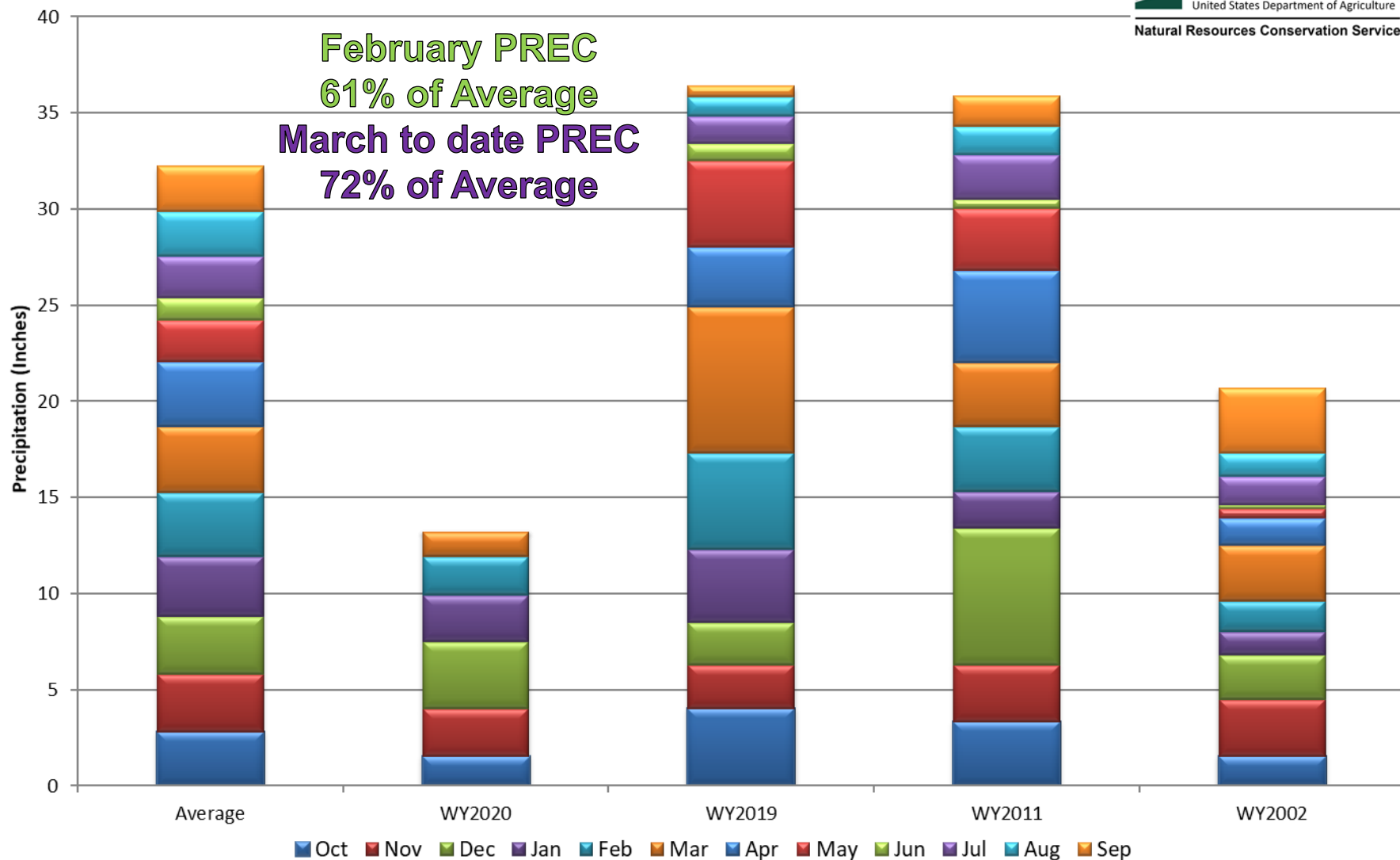
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



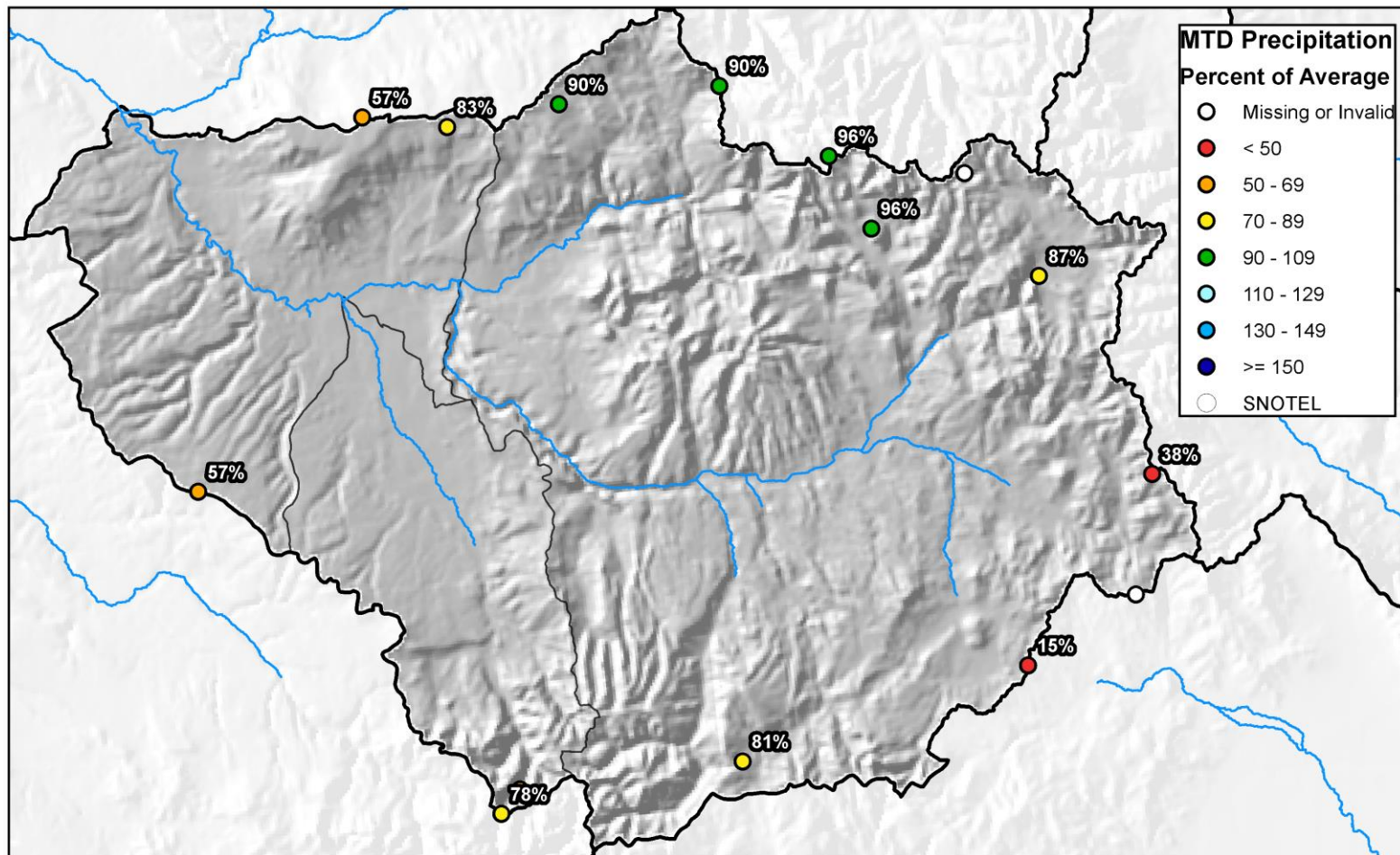
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Gunnison River Basin Month to Date Precipitation Summary

Current as of Mar 17, 2020



0 5 10 20 30 40 Miles



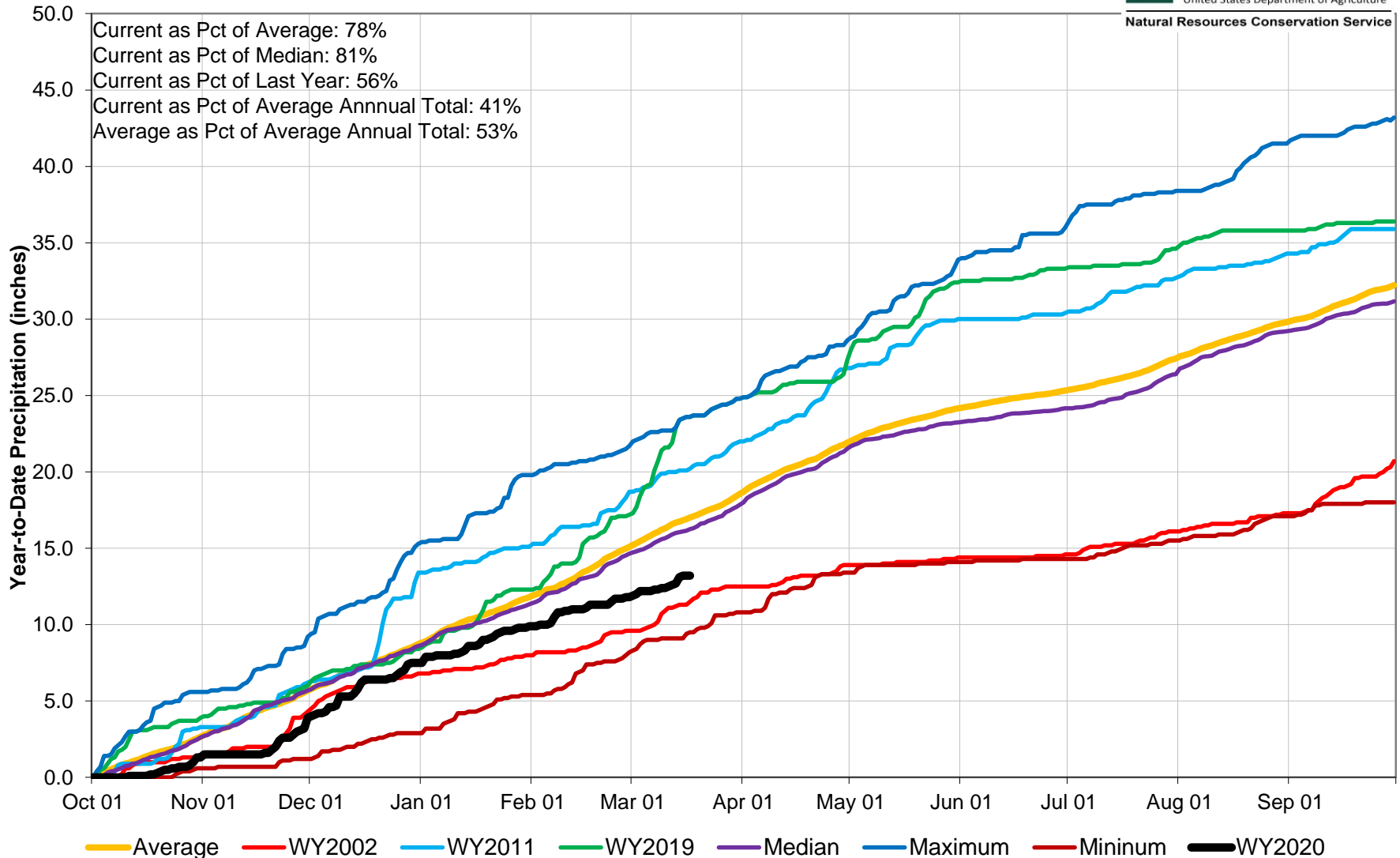
Gunnison River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



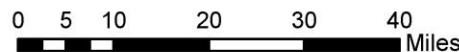
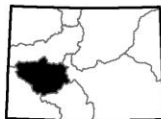
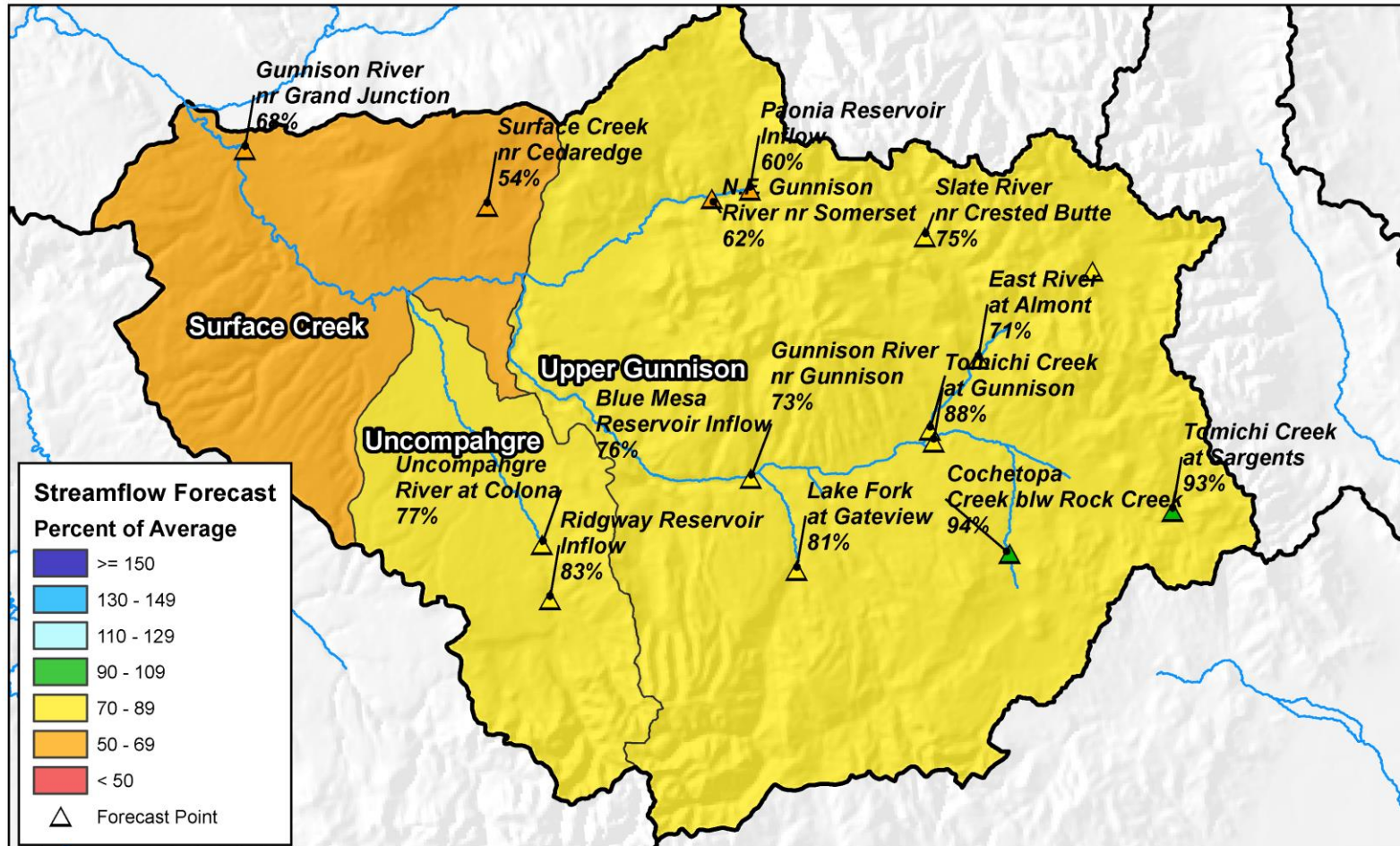
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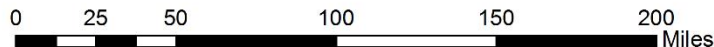
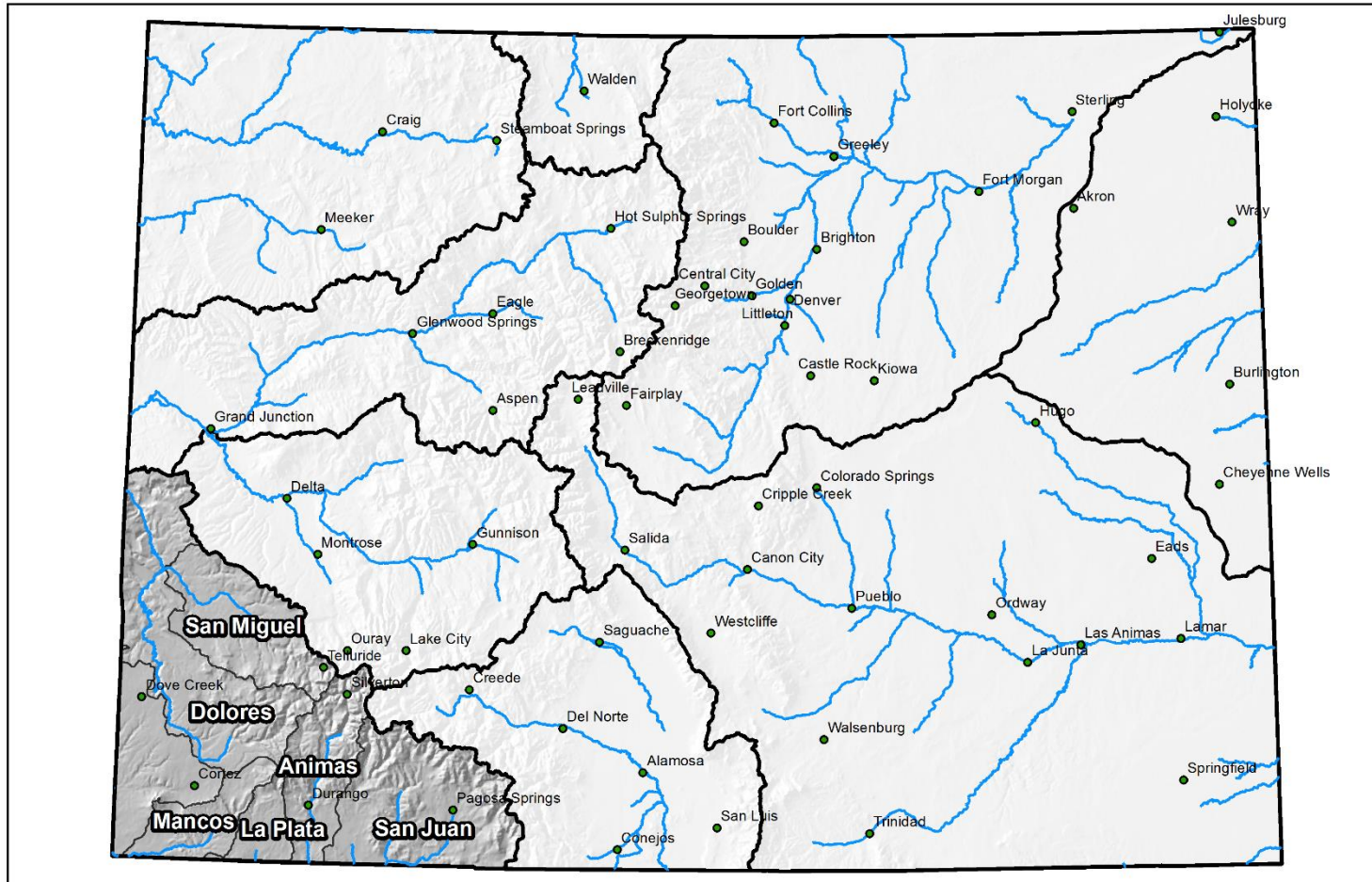
Gunnison River Basin Water Supply Forecast Summary

March 1, 2020



Major Basin Summary

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





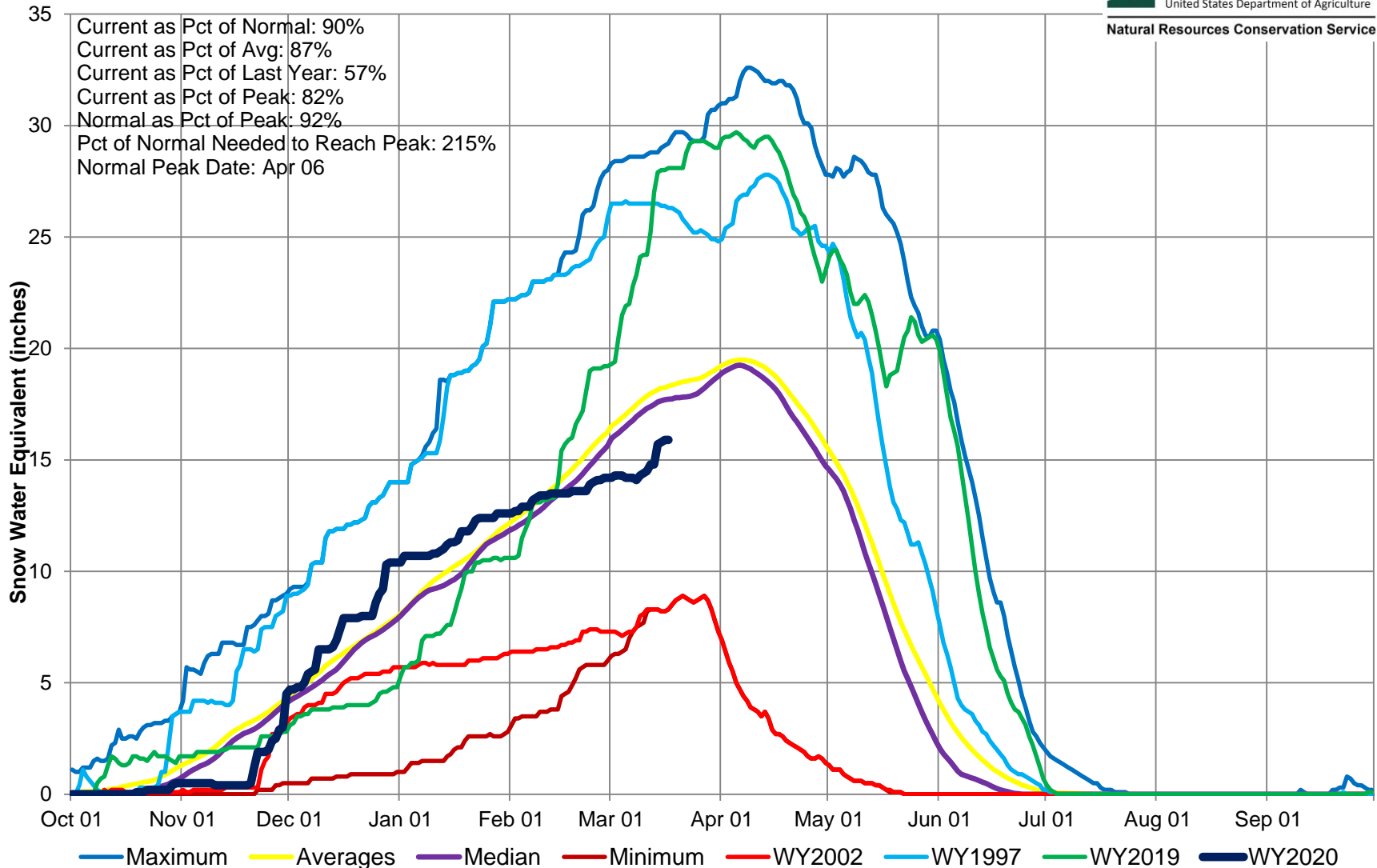
San Miguel, Dolores, Animas and San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



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San Miguel, Dolores, Animas and San Juan River Basins

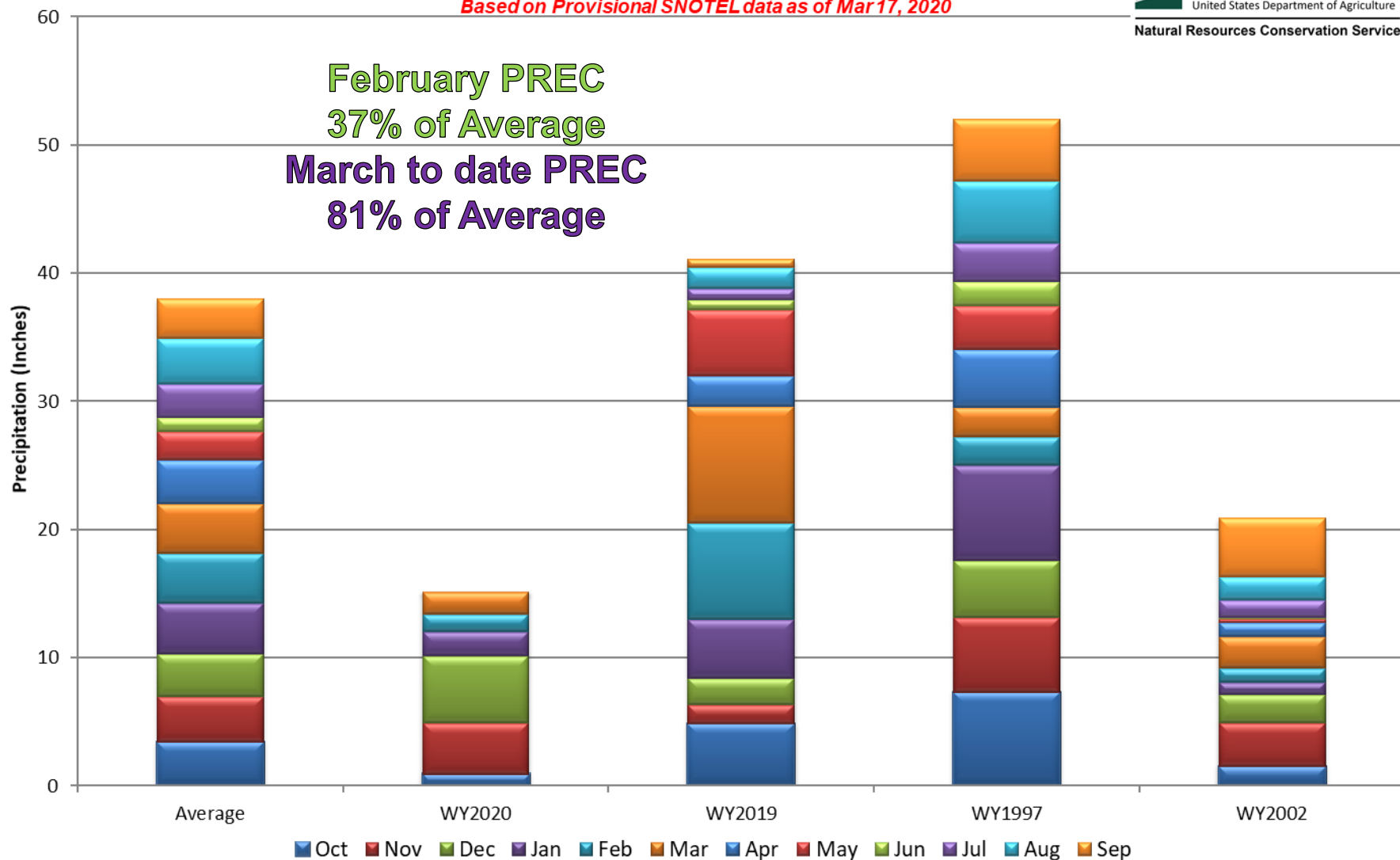
High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



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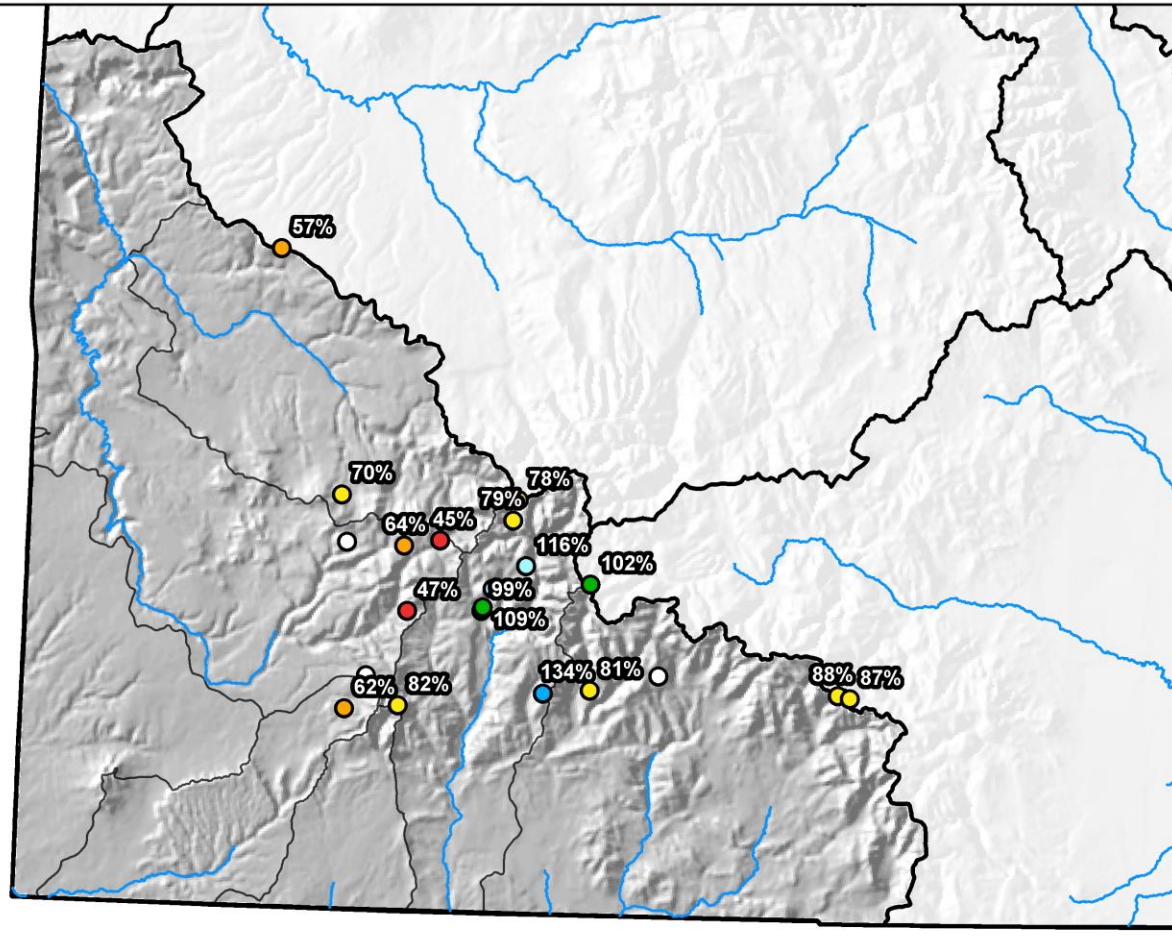


San Miguel, Dolores, Animas, and San Juan River Basins Month to Date Precipitation Summary

Current as of Mar 17, 2020

MTD Precipitation Percent of Average

- Missing or Invalid
- < 50
- 50 - 69
- 70 - 89
- 90 - 109
- 110 - 129
- 130 - 149
- >= 150
- SNOTEL



0 10 20 40 60 80 Miles



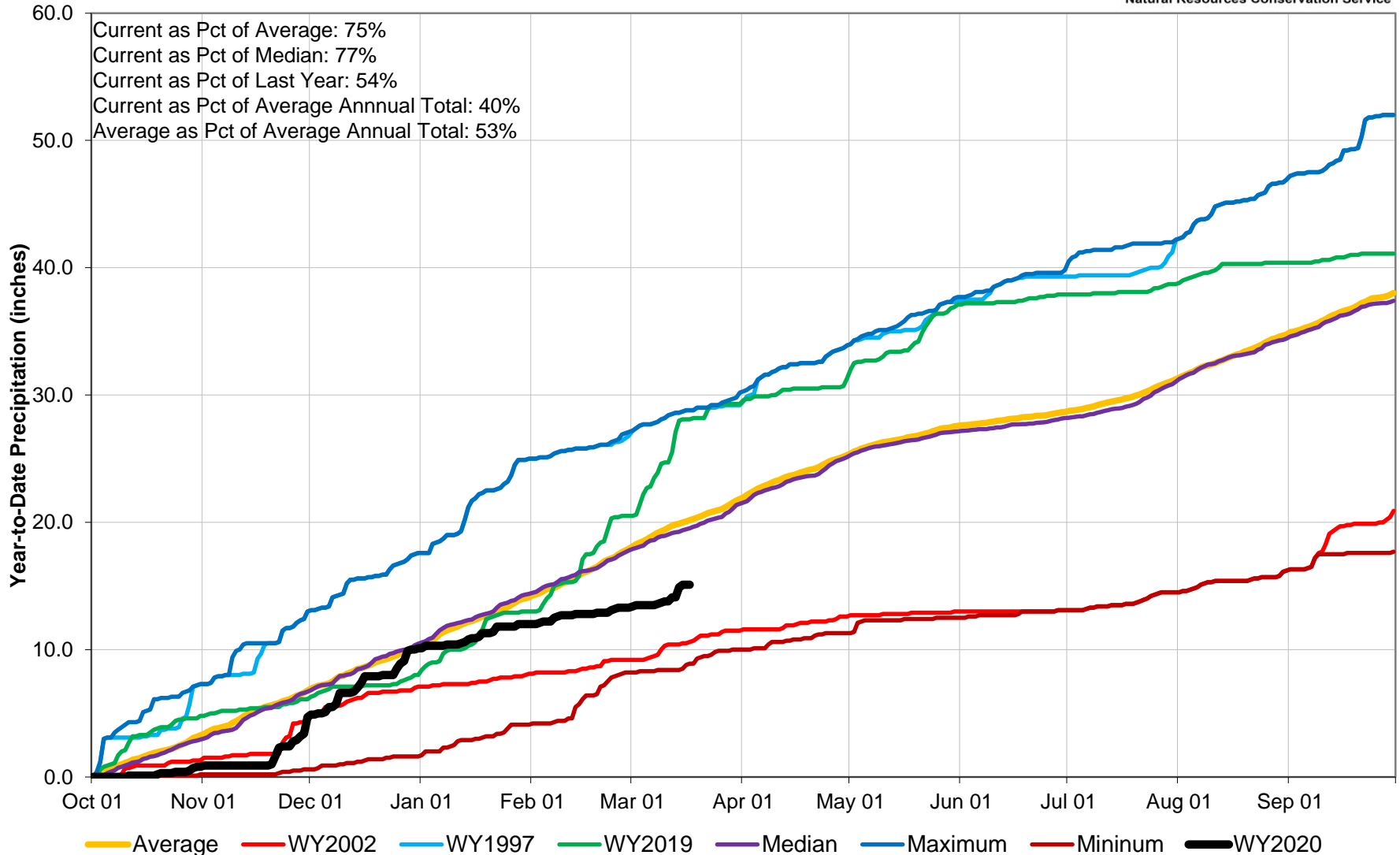
San Miguel, Dolores, Animas and San Juan River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



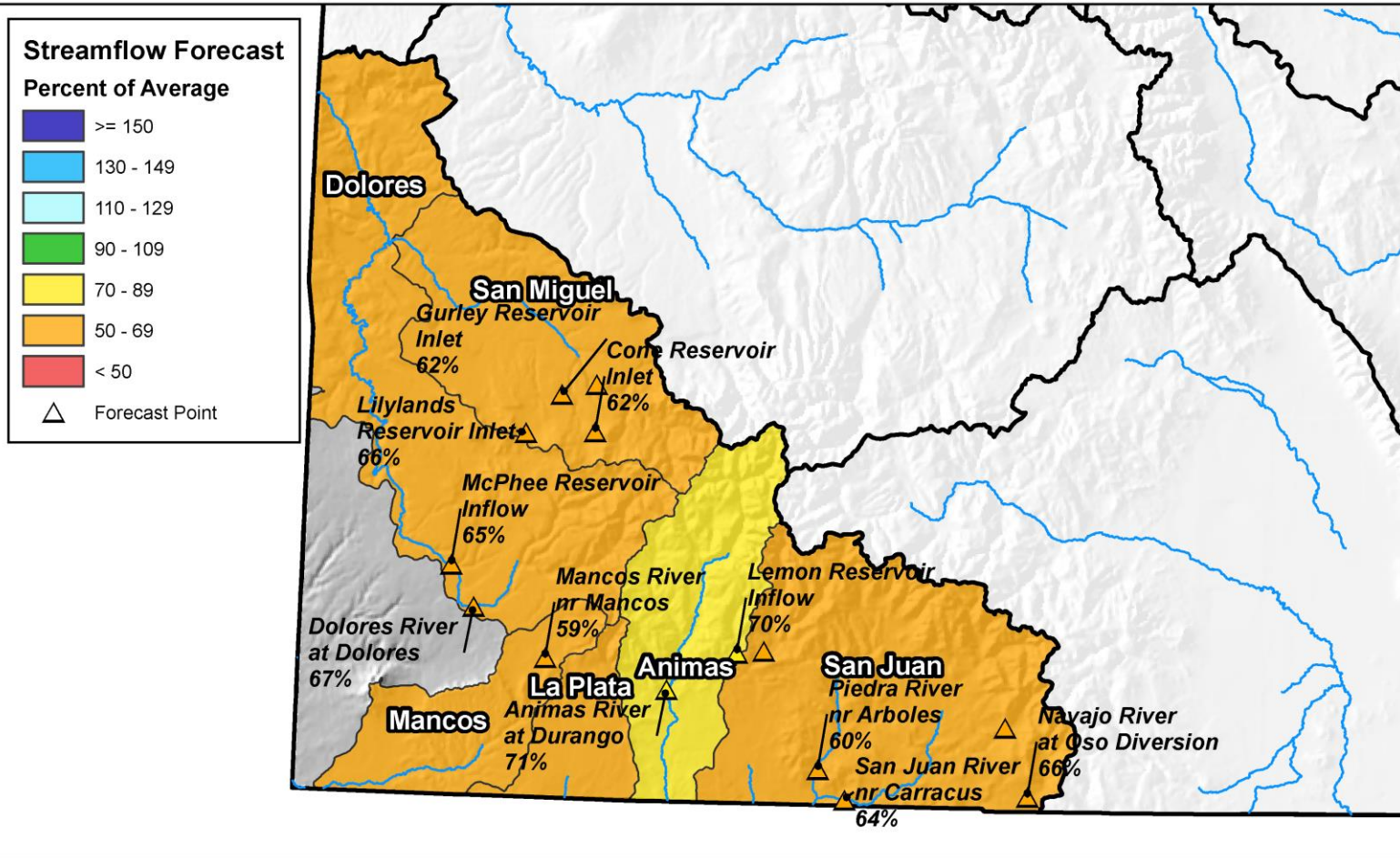
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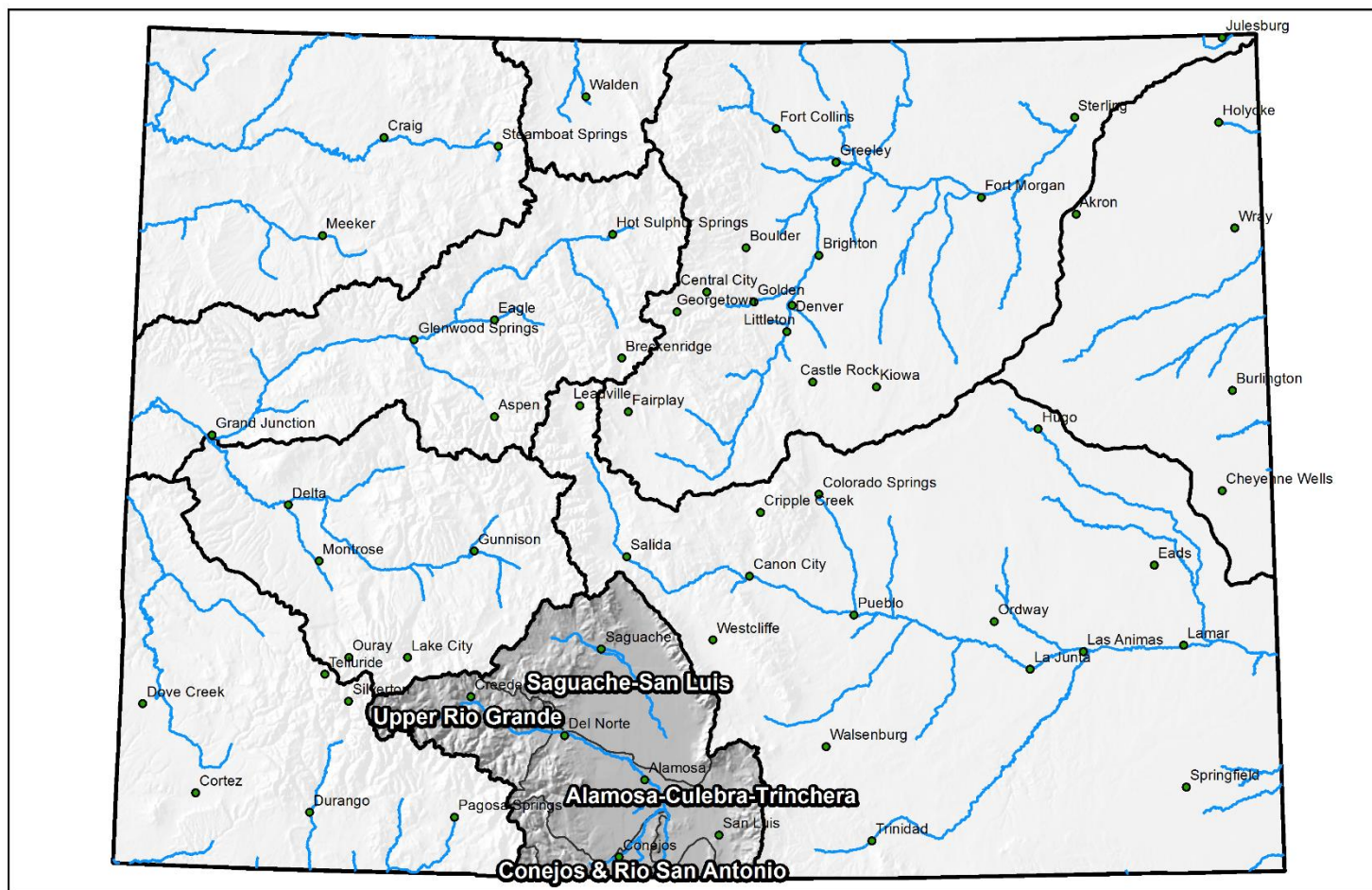
San Miguel, Dolores, Animas, and San Juan River Basins Streamflow Forecast Summary

March 1, 2020



Major Basin Summary

Upper Rio Grande River Basin





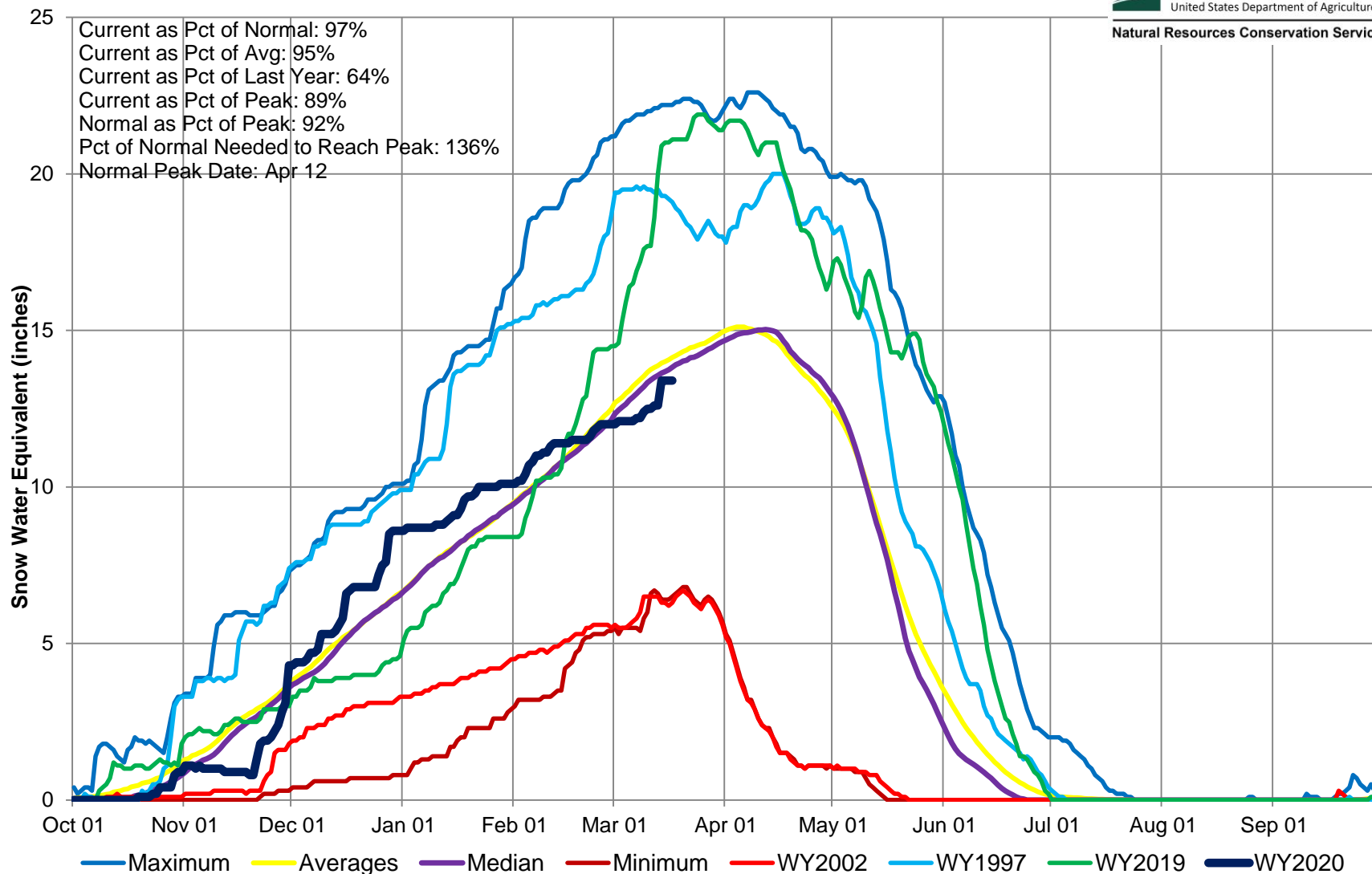
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



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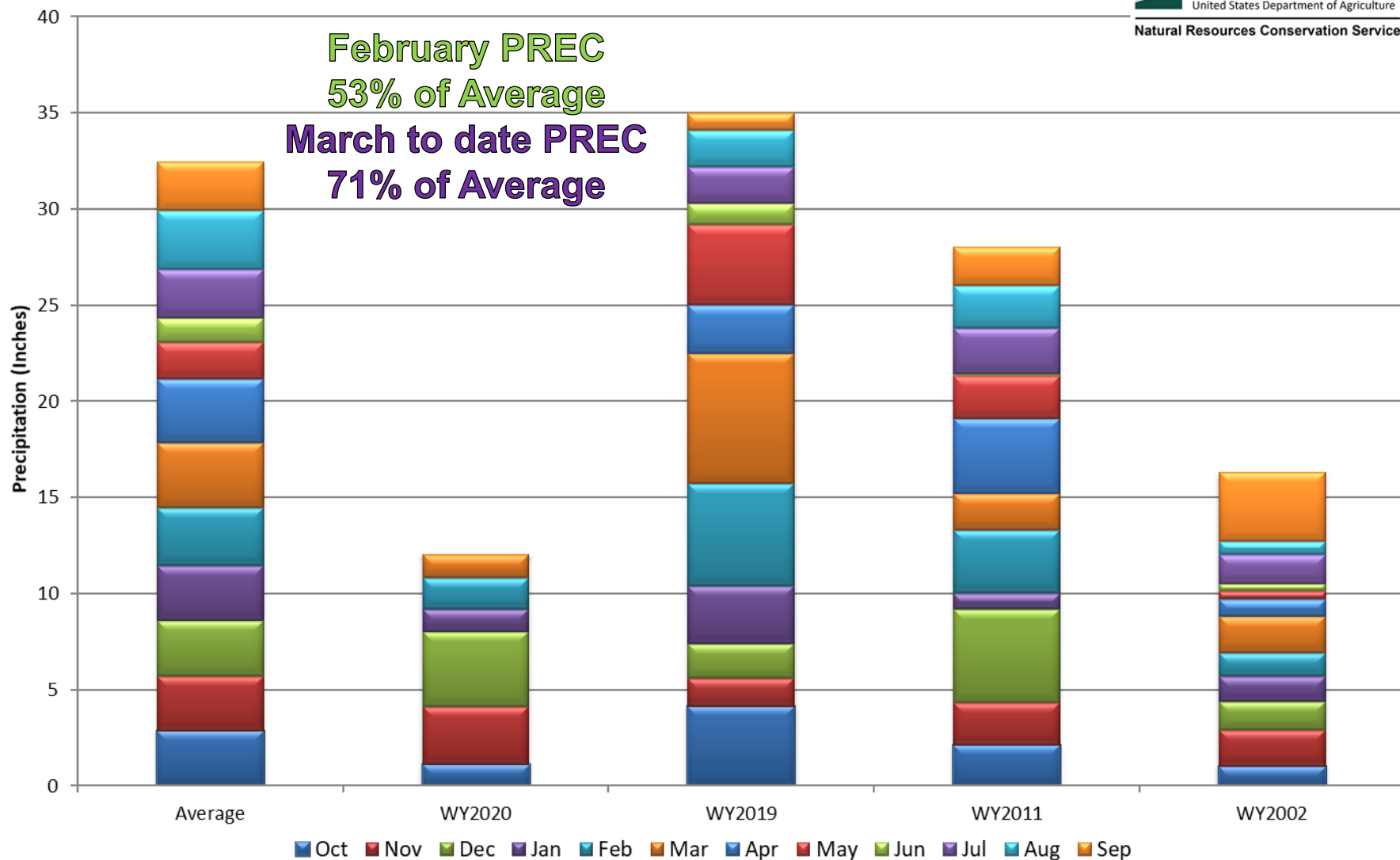
Upper Rio Grande River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



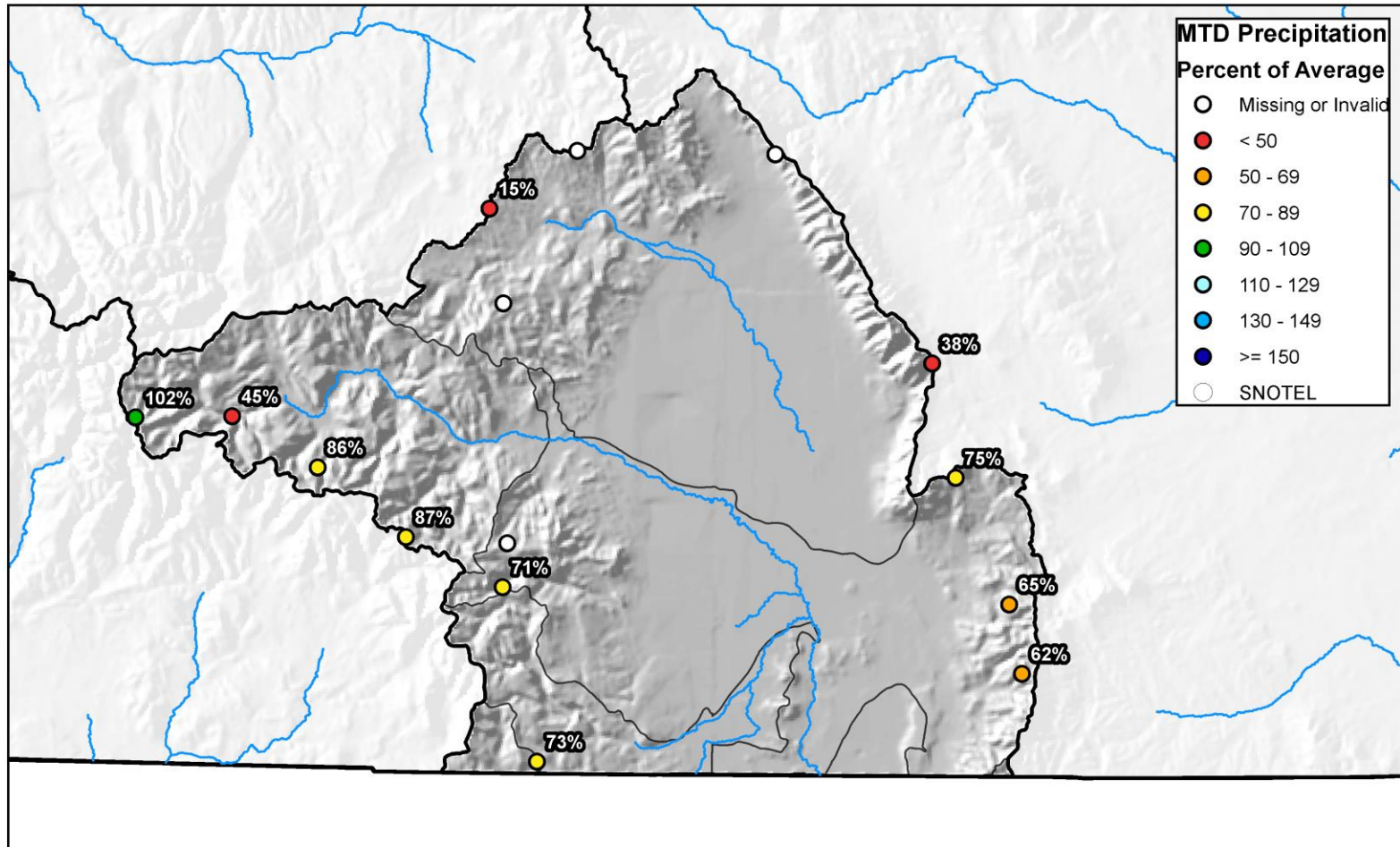
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Upper Rio Grande River Basin Month to Date Precipitation Summary

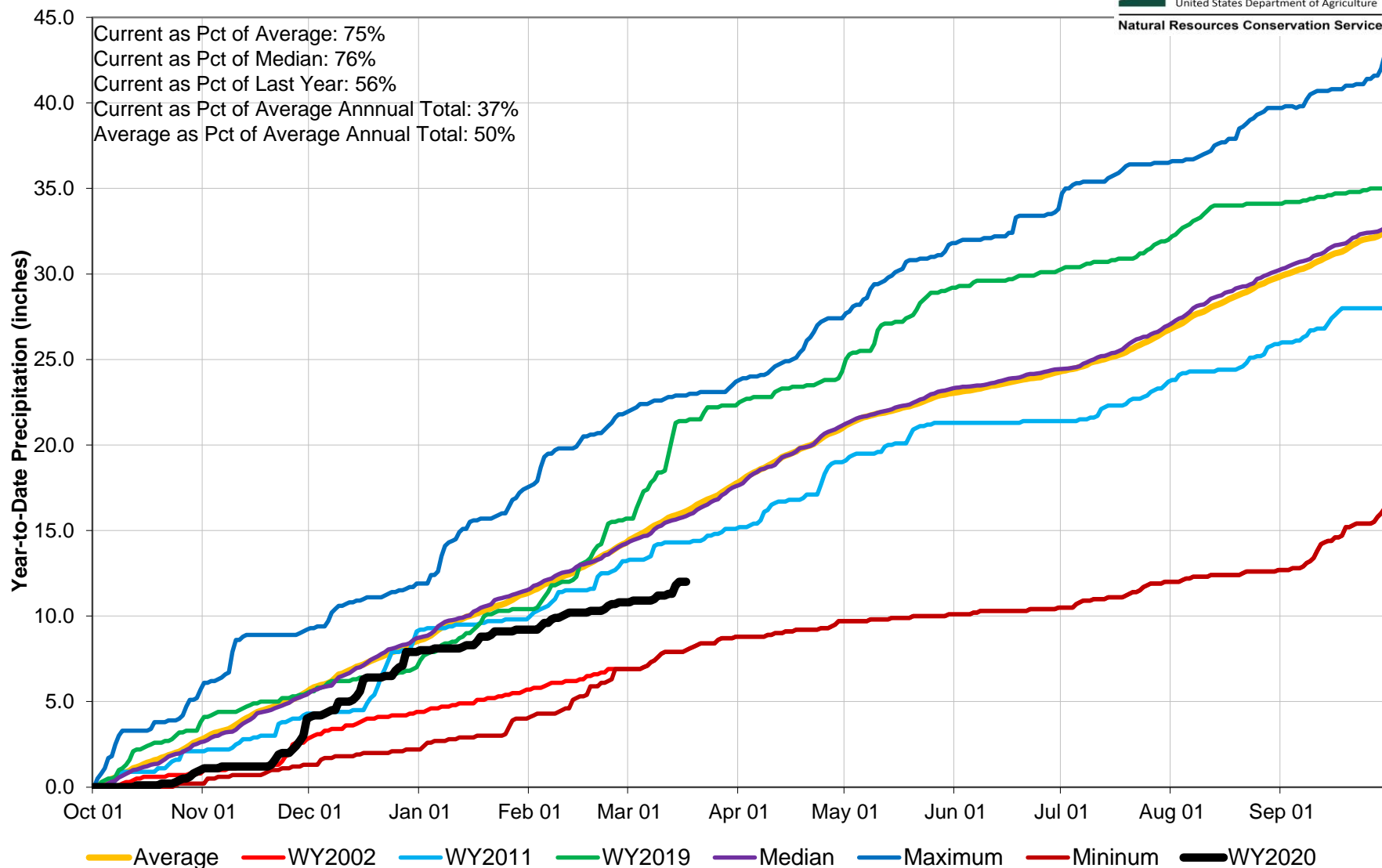
Current as of Mar 17, 2020





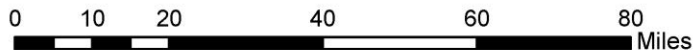
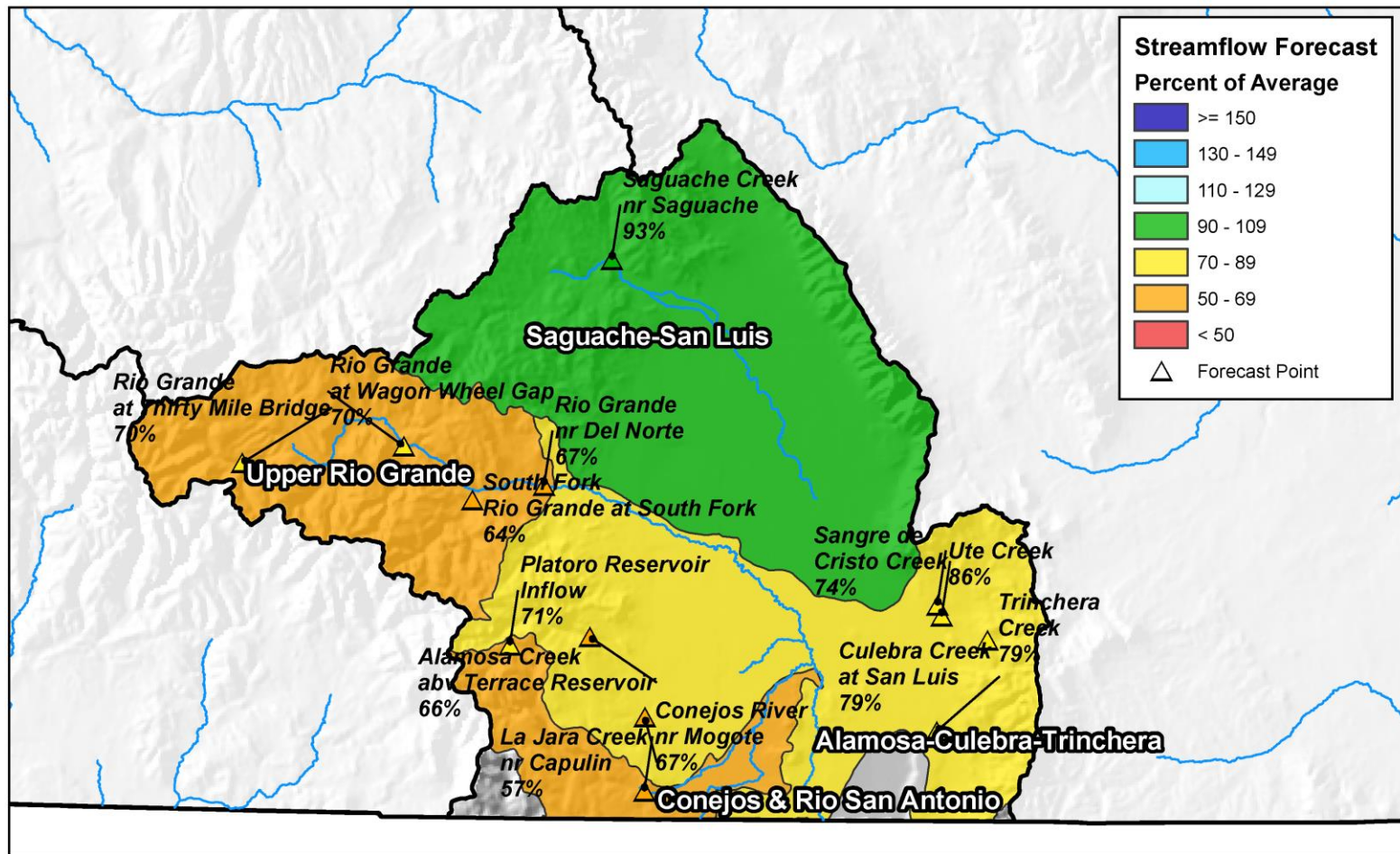
Upper Rio Grande River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



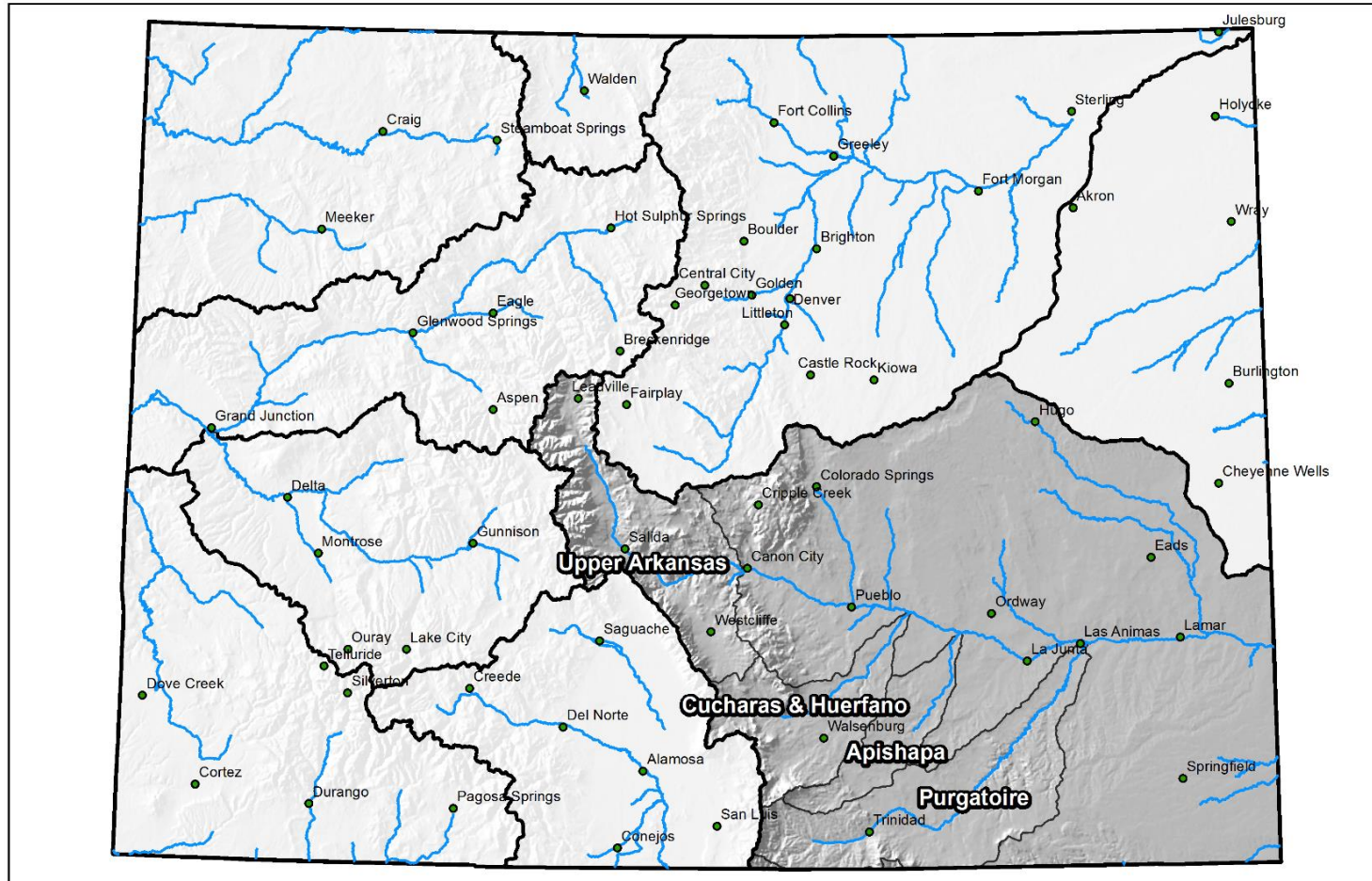
Upper Rio Grande River Basin Streamflow Forecast Summary

March 1, 2020



Major Basin Summary

Arkansas River Basin



0 25 50 100 150 200 Miles



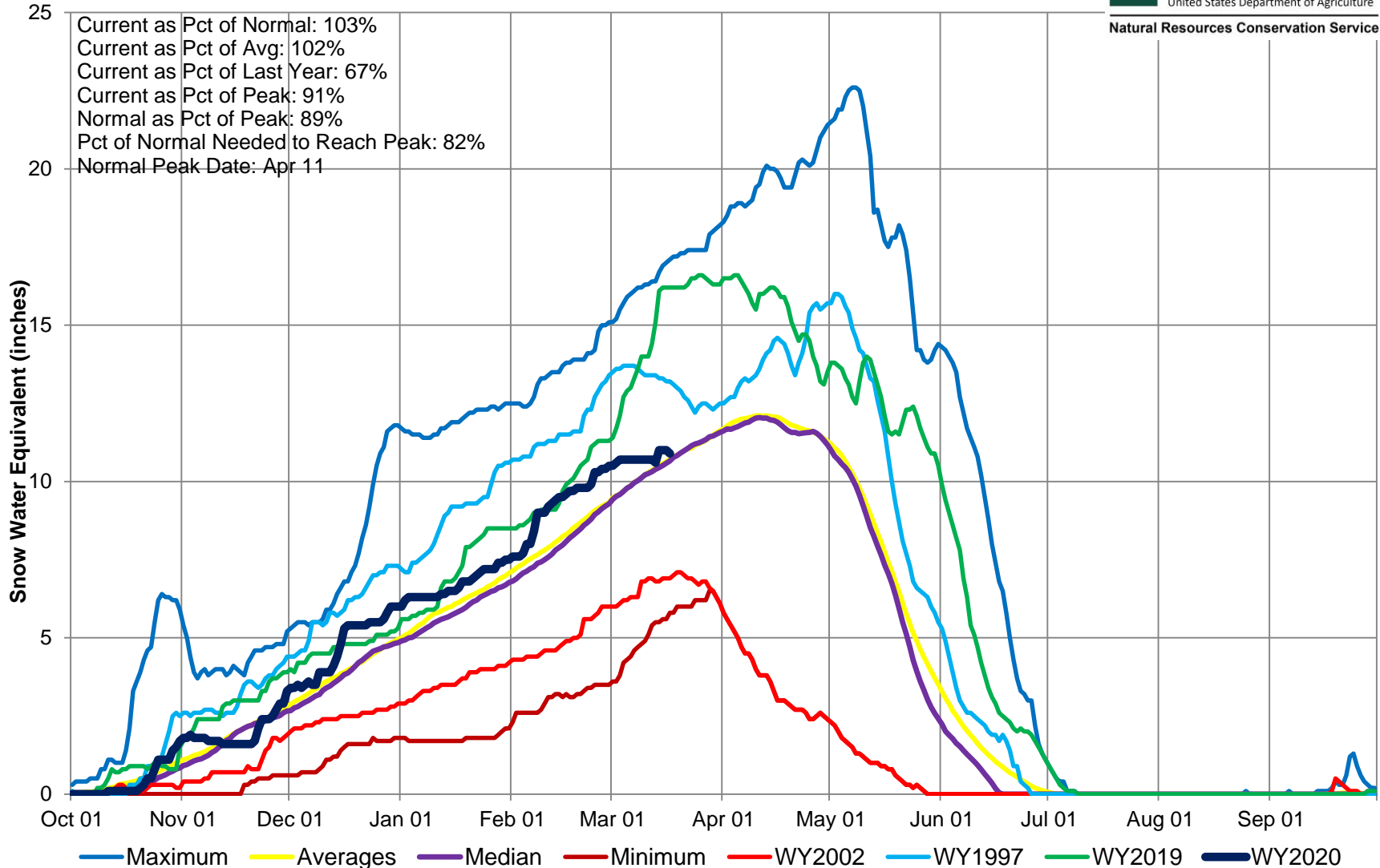
Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



United States Department of Agriculture

Natural Resources Conservation Service



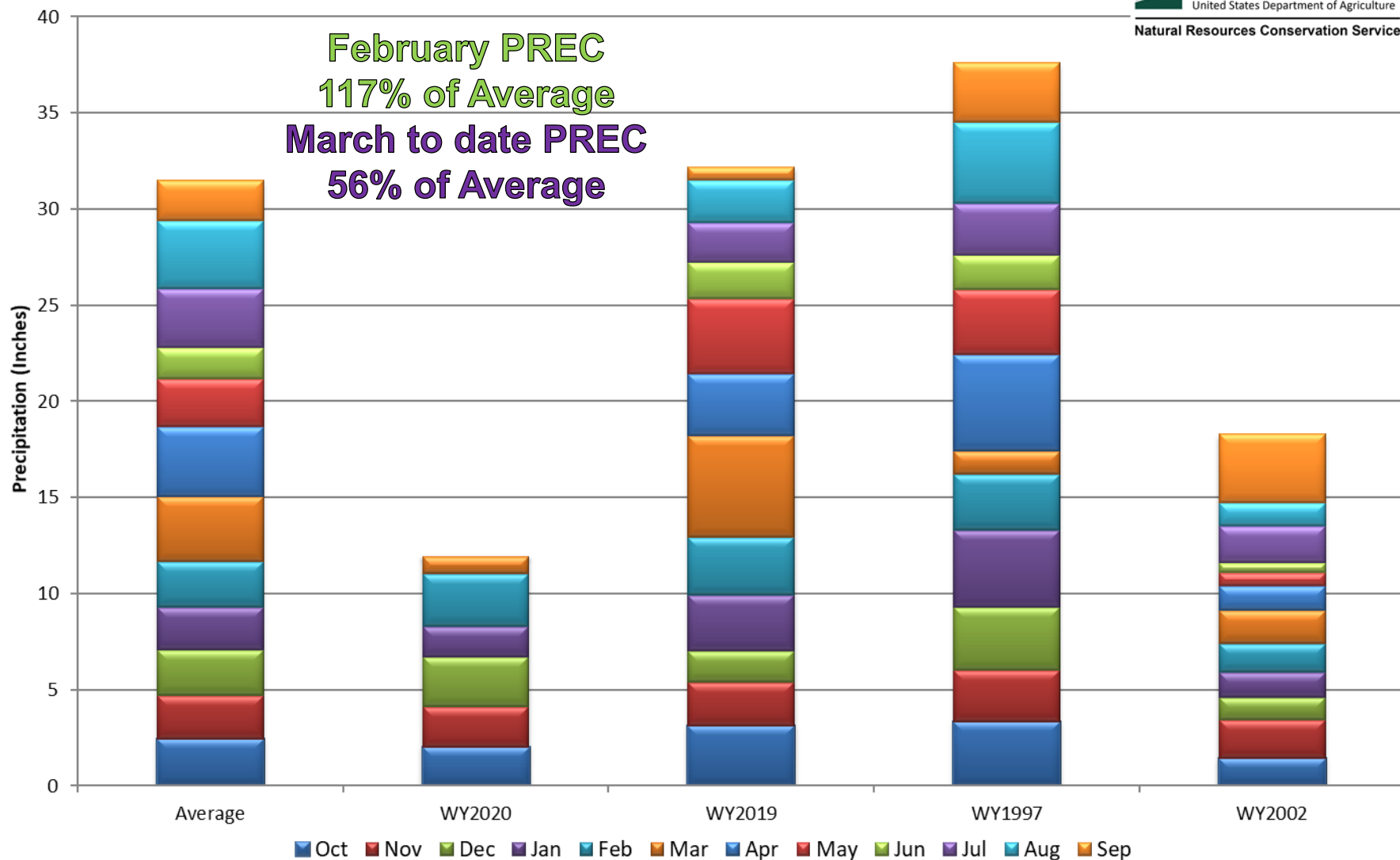
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



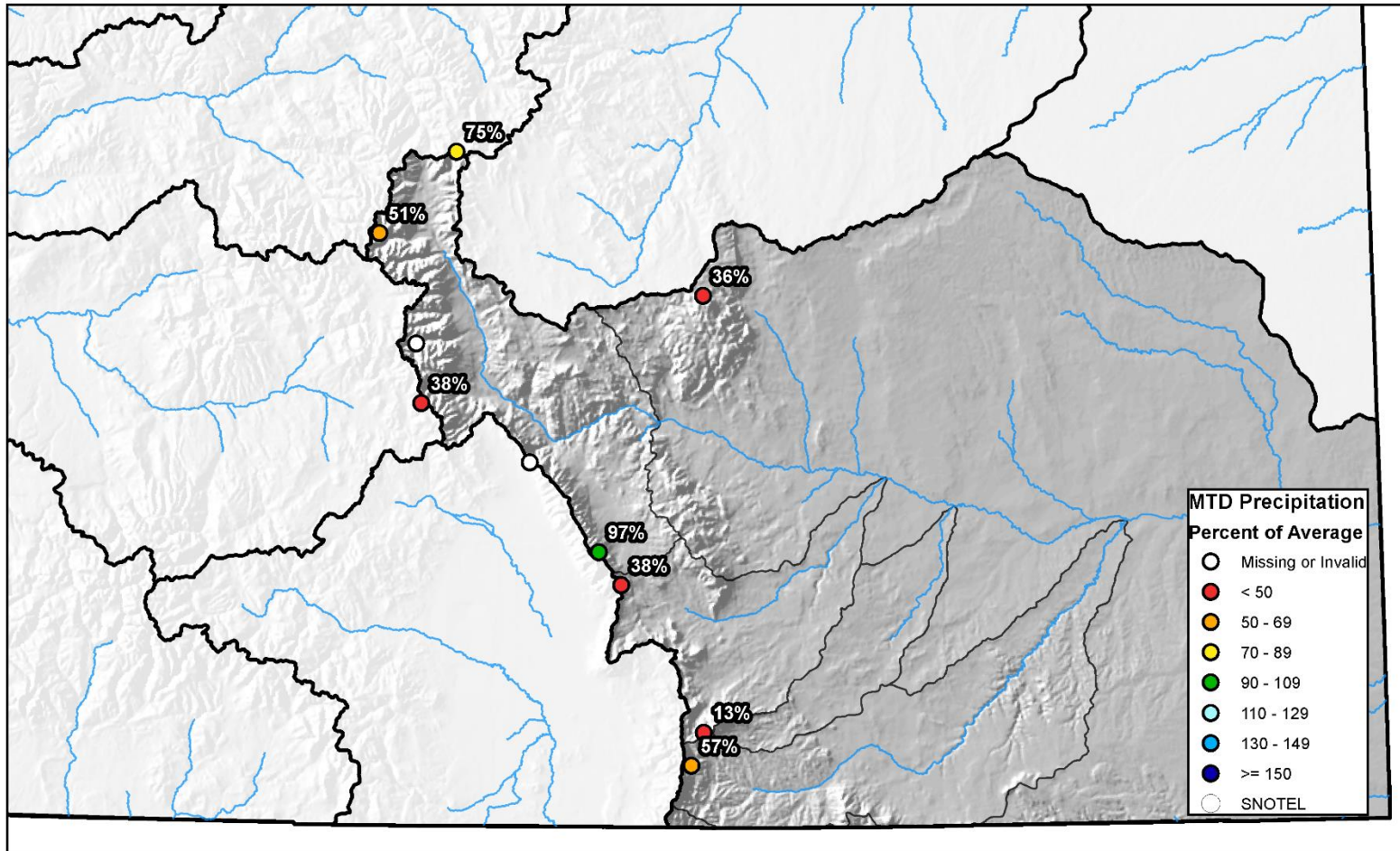
United States Department of Agriculture

Natural Resources Conservation Service



Arkansas River Basin Month to Date Precipitation Summary

Current as of Mar 17, 2020

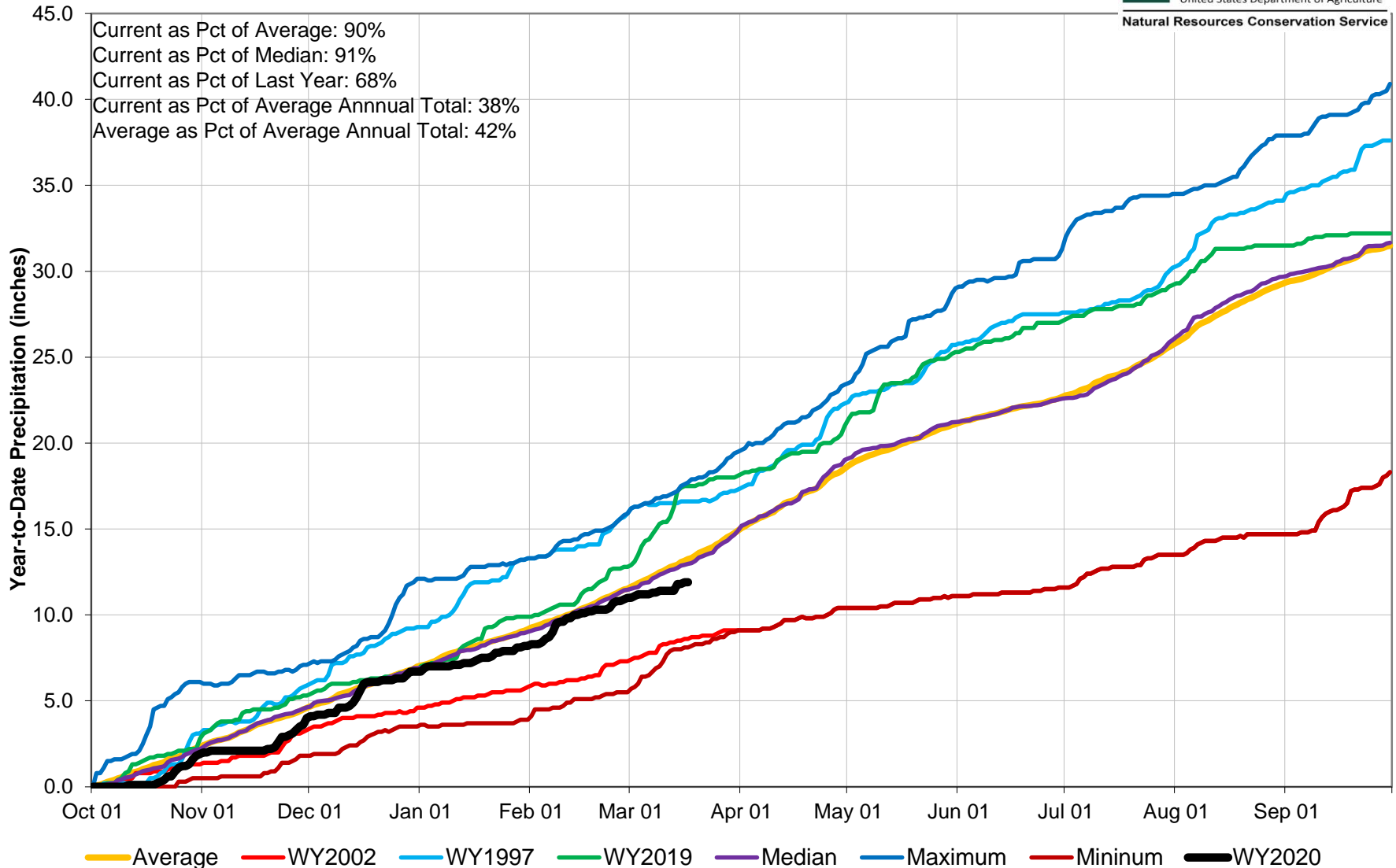


0 10 20 40 60 80 Miles



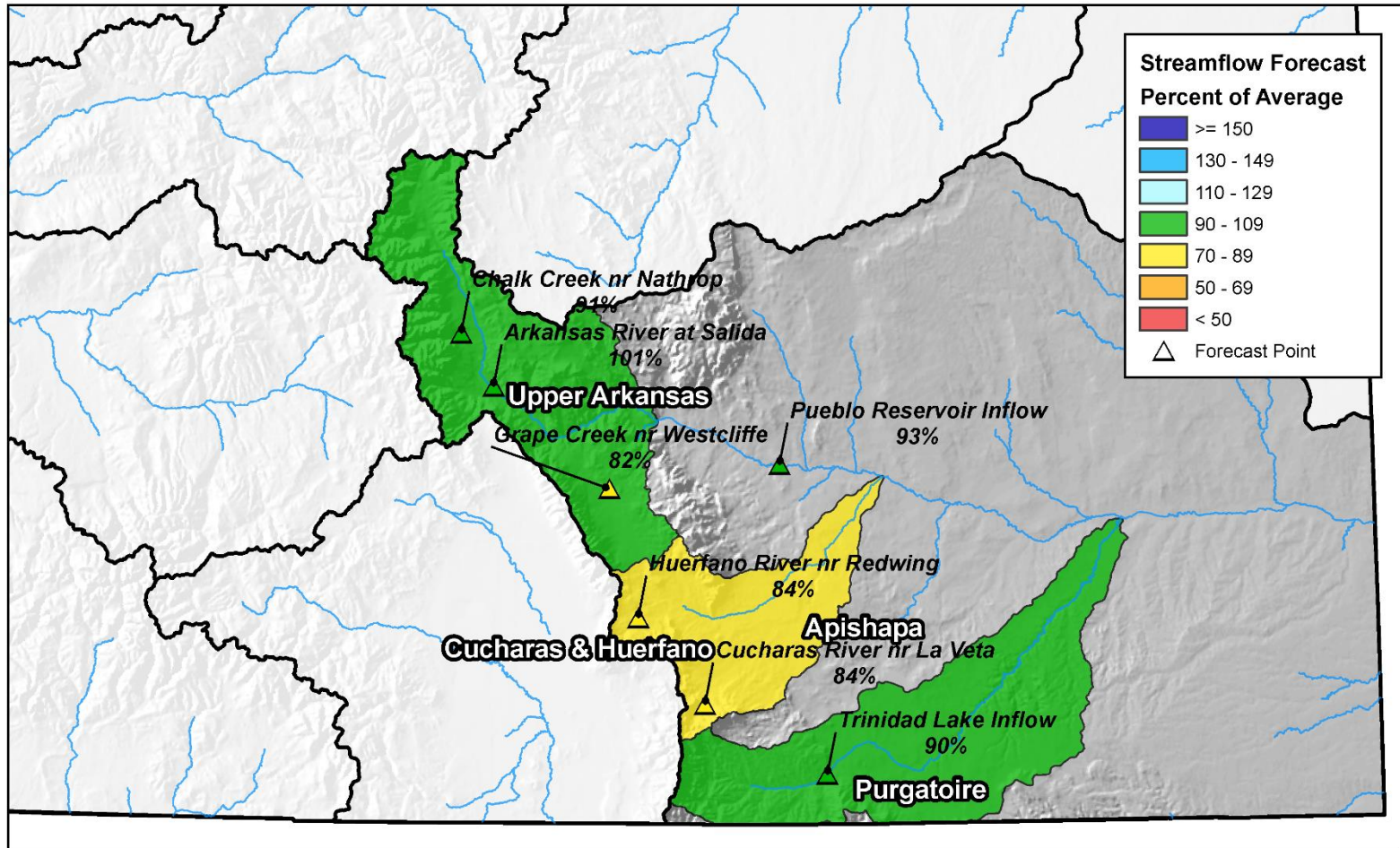
Arkansas River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



Arkansas River Basin Streamflow Forecast Summary

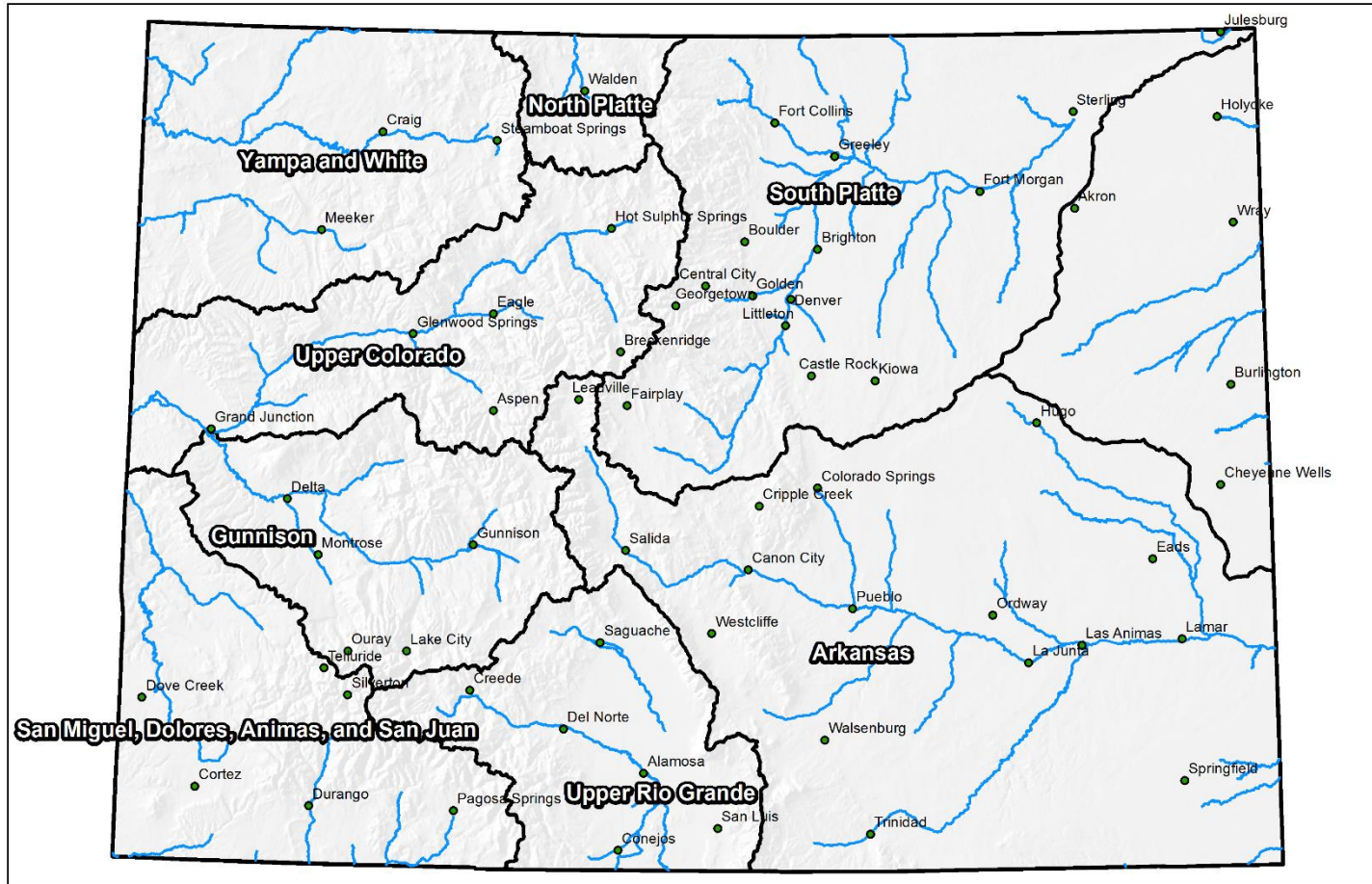
March 1, 2020



0 10 20 40 60 80 Miles

Colorado Statewide Summary

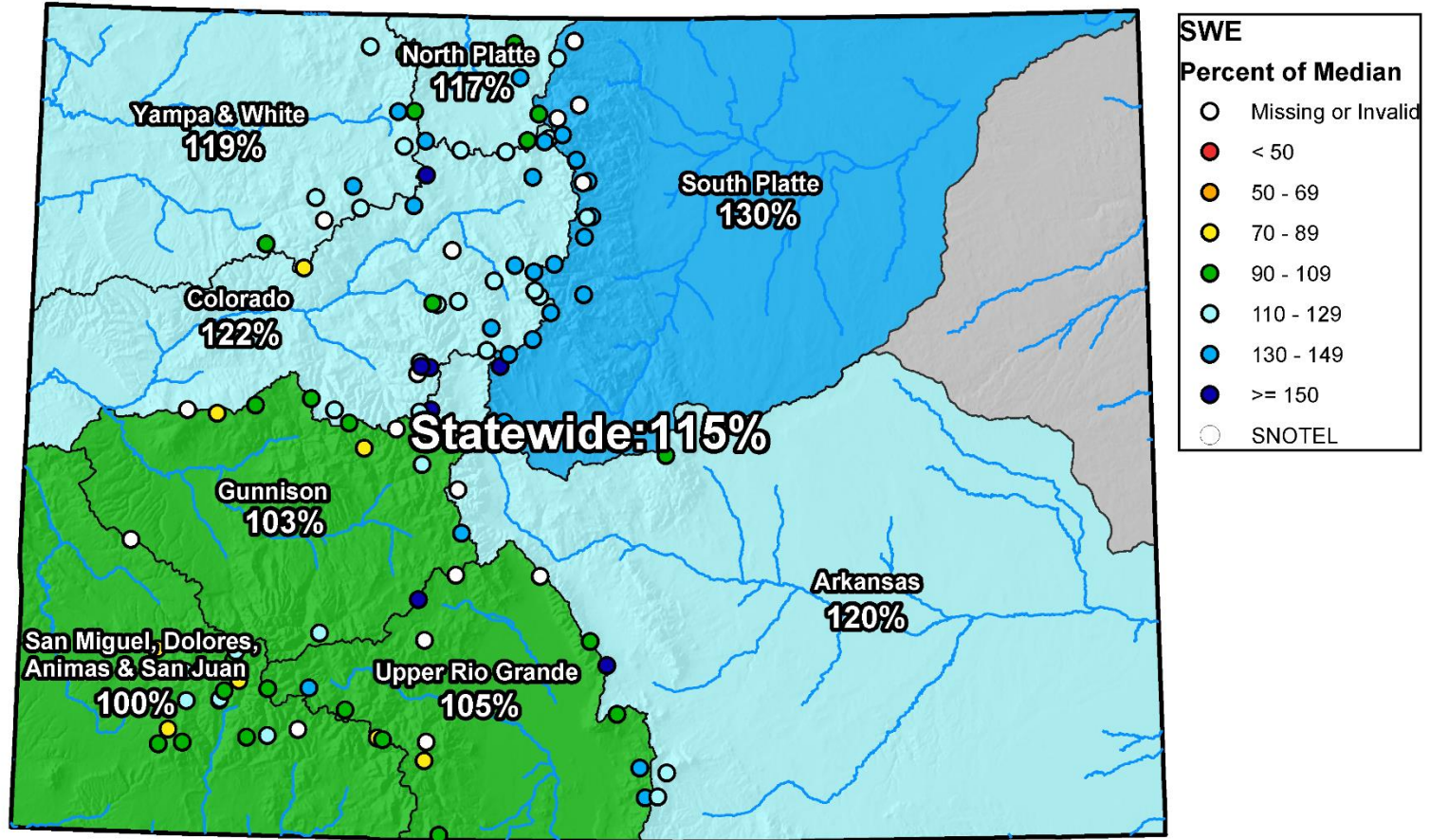
Colorado Major Basins



0 25 50 100 150 200 Miles

Colorado SNOTEL Snow Water Equivalent (SWE) Update Map with Site Data

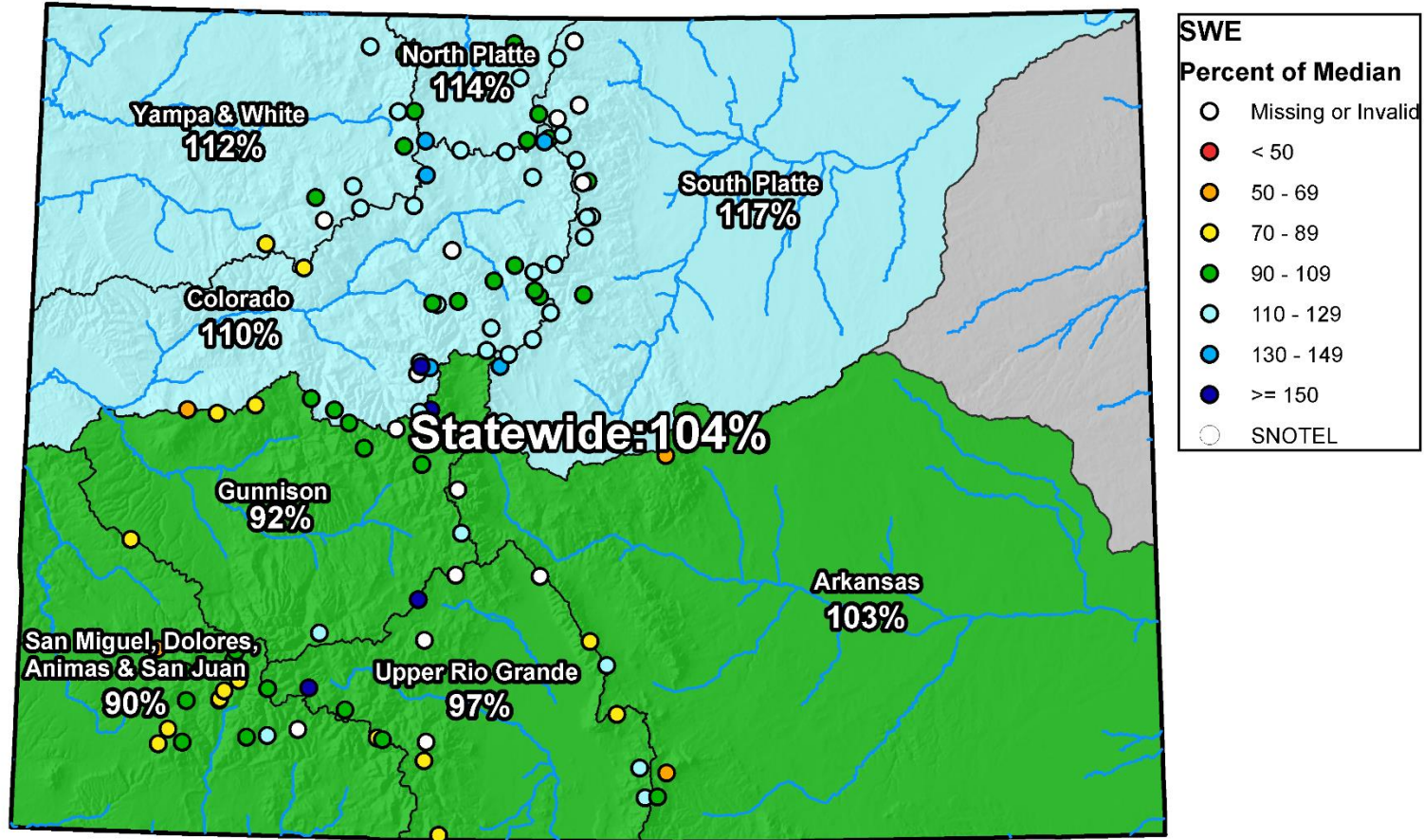
Current as of Feb 14, 2020



0 25 50 100 150 200 Miles

Colorado SNOTEL Snow Water Equivalent (SWE) Update Map with Site Data

Current as of Mar 17, 2020



0 25 50 100 150 200 Miles



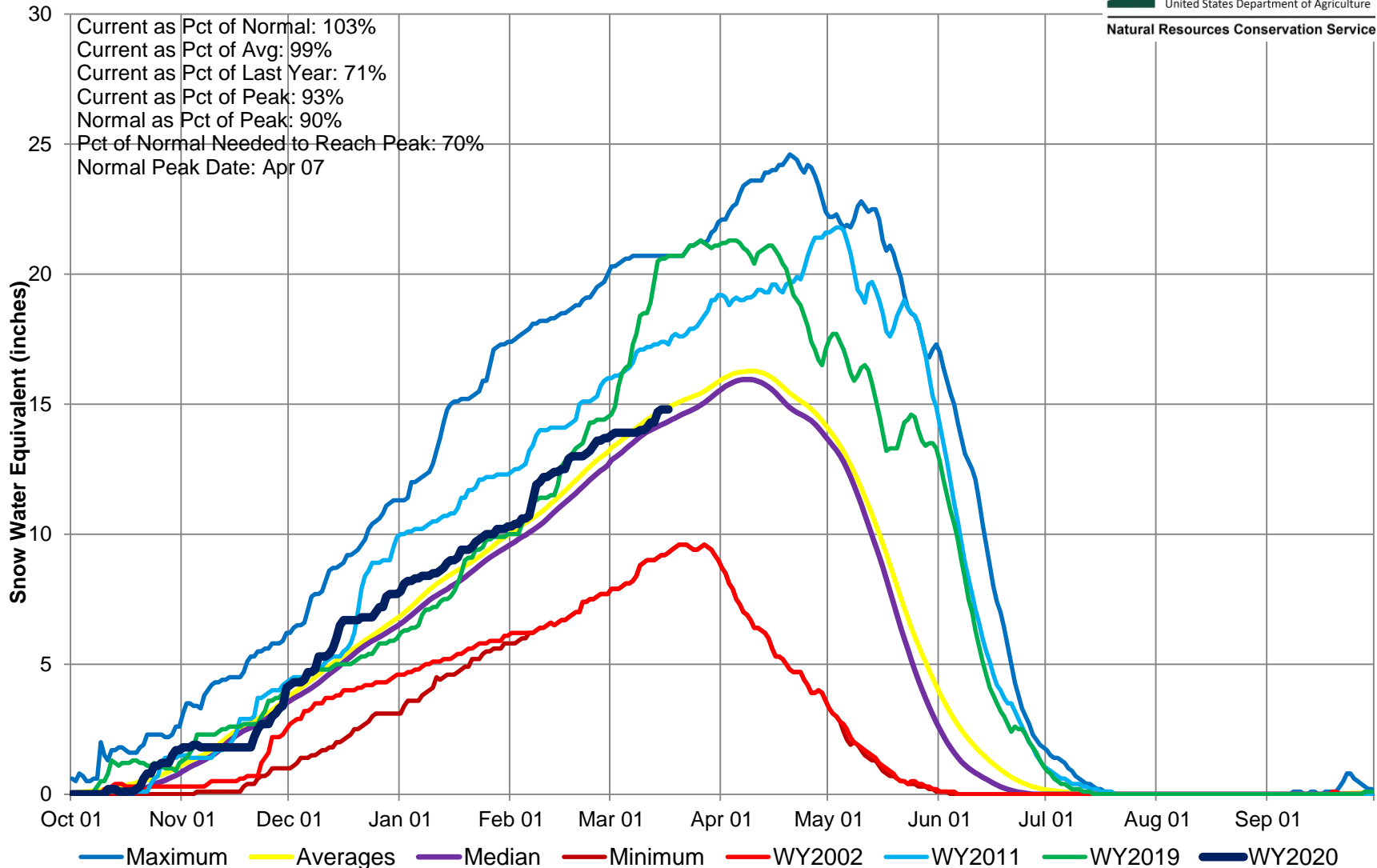
Colorado Statewide High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



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Natural Resources Conservation Service



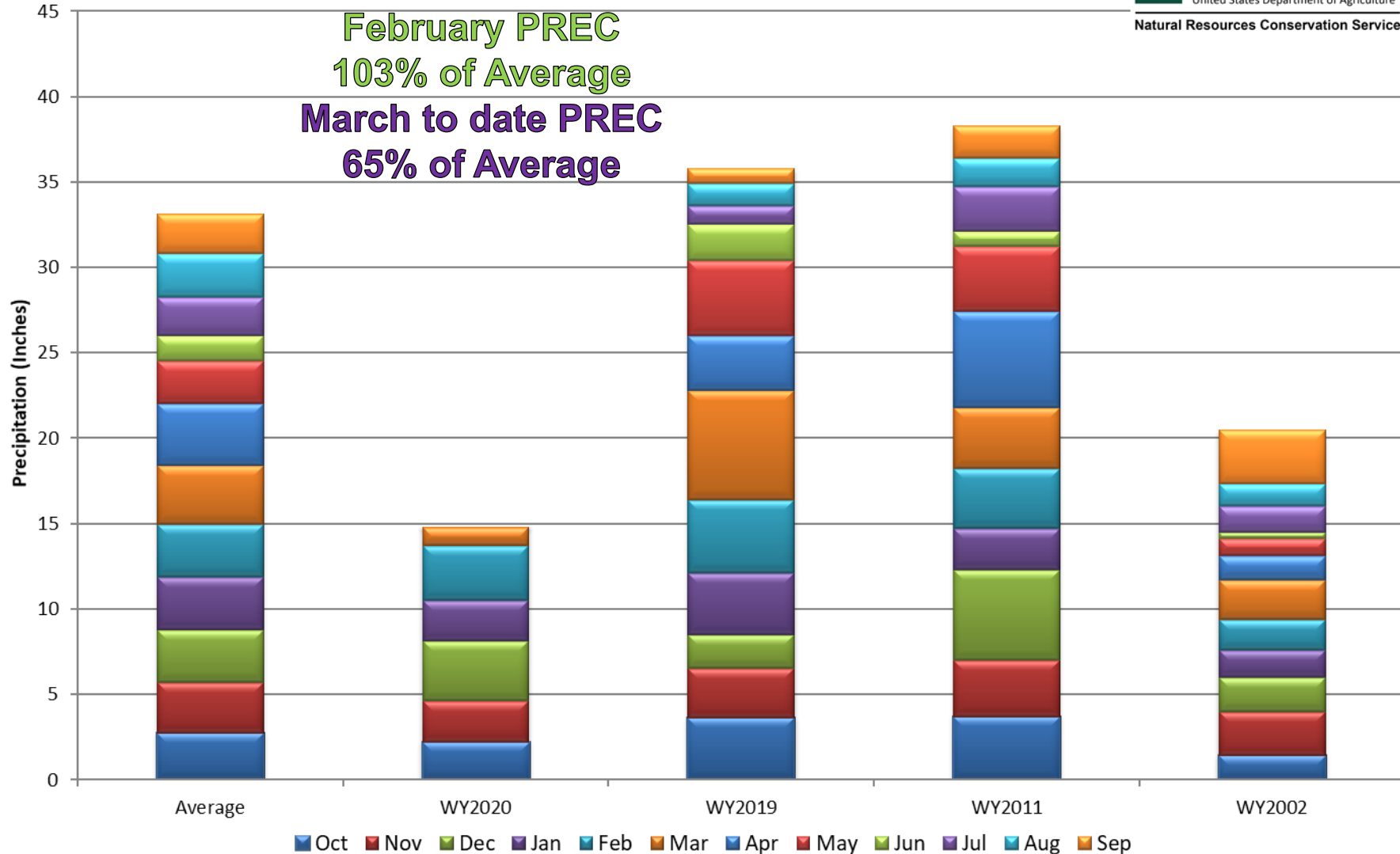
Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



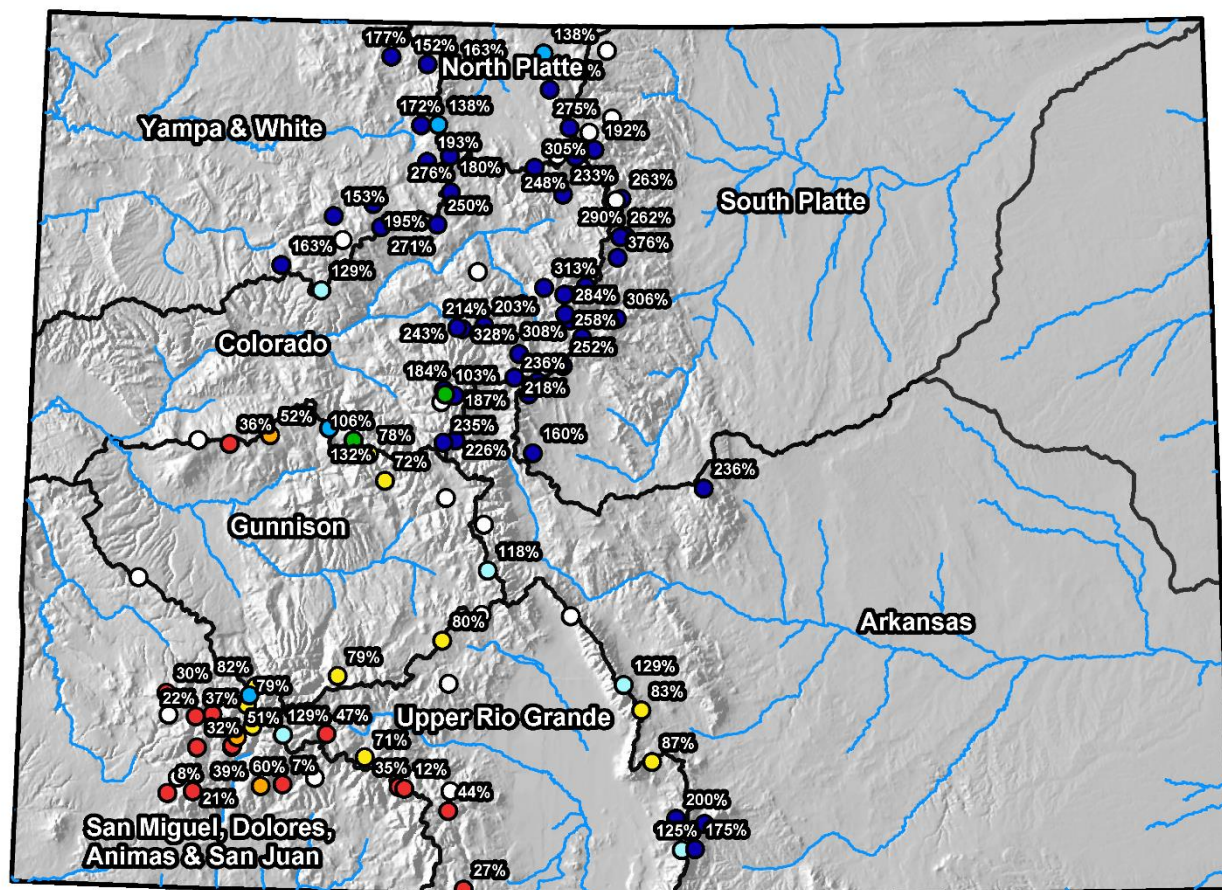
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Colorado SNOTEL Month-to-Date Precipitation

Current as of Feb 14, 2020



MTD Precipitation Percent of Average

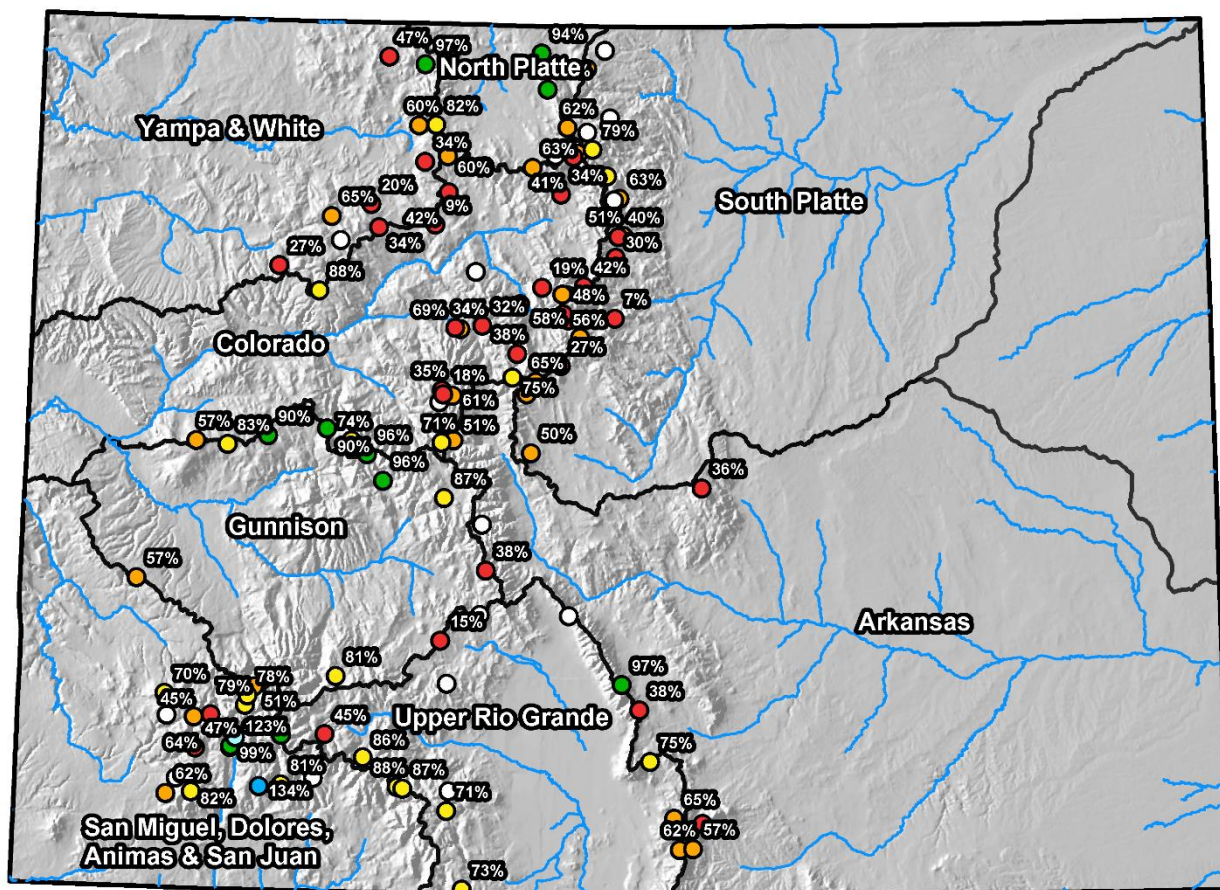
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0 25 50 100 150 200 Miles

Colorado SNOTEL Month-to-Date Precipitation

Current as of Mar 17, 2020



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0 25 50 100 150 200 Miles



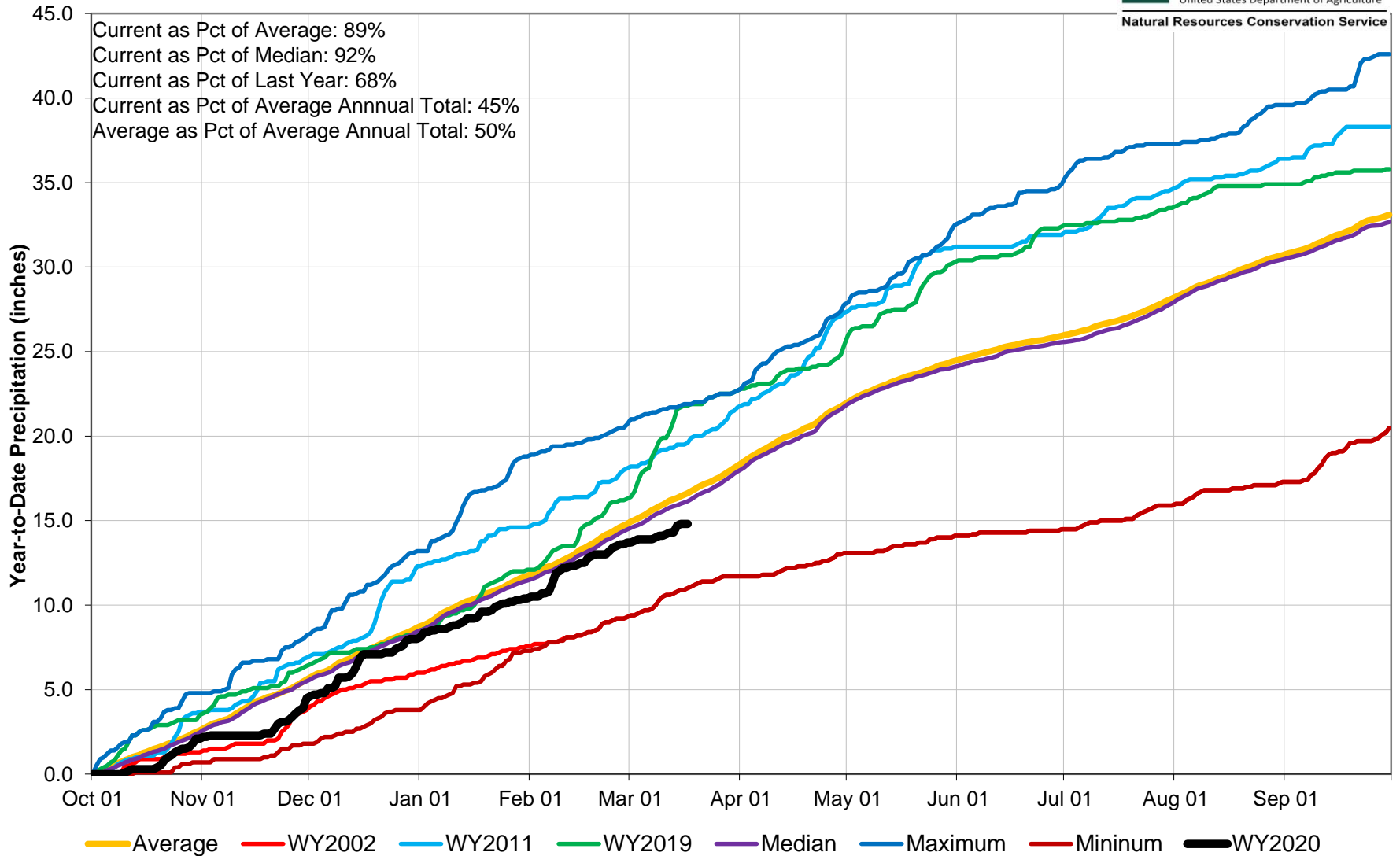
Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 17, 2020



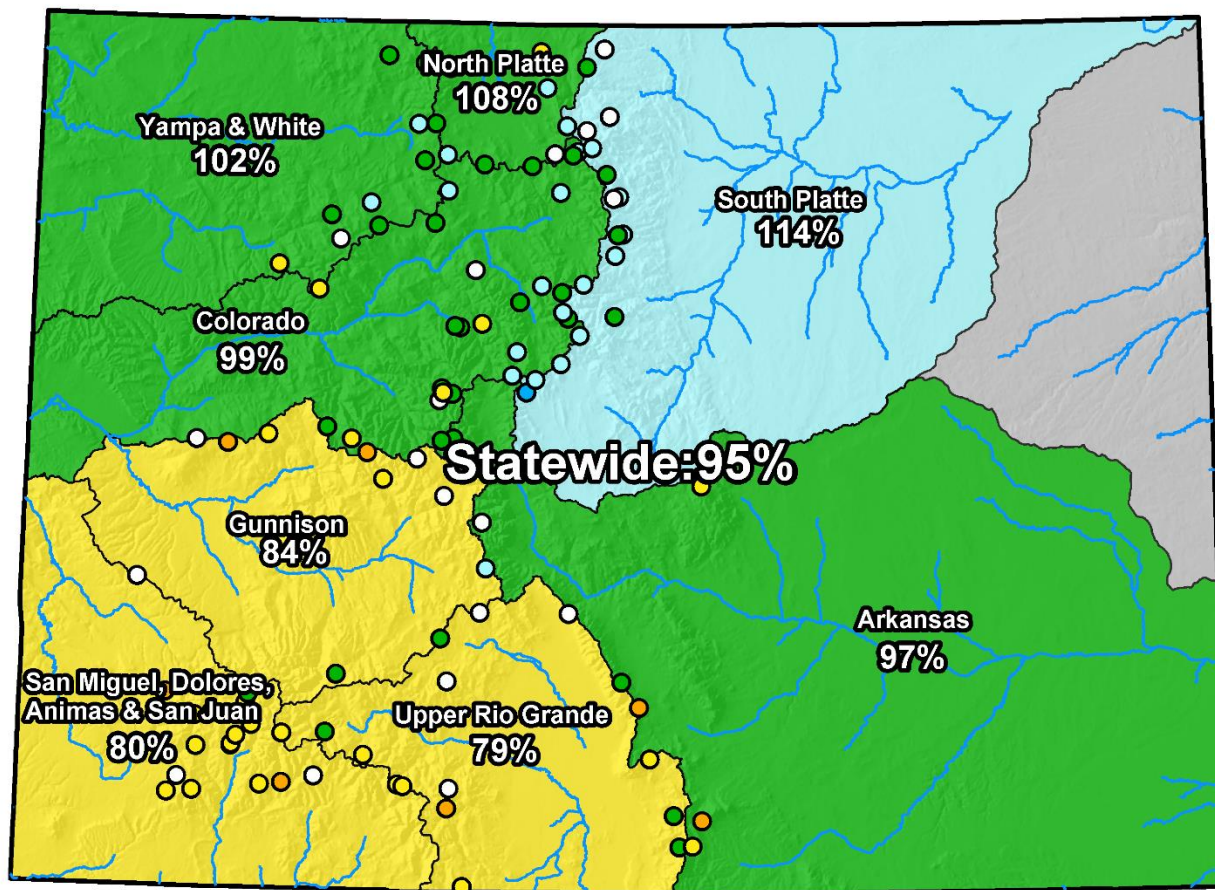
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Colorado SNOTEL Water Year to Date Precipitation

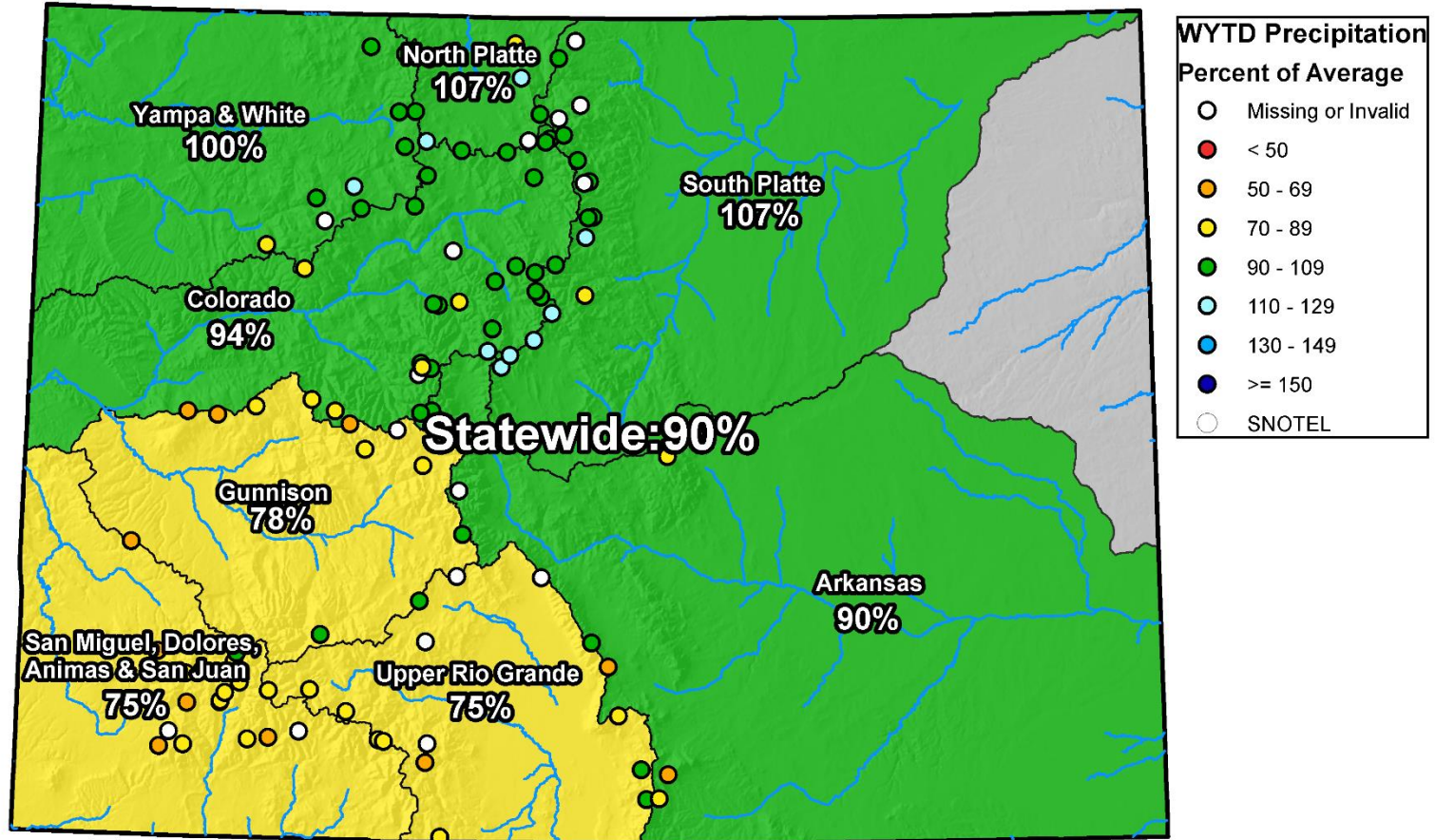
Current as of Feb 14, 2020



0 25 50 100 150 200 Miles

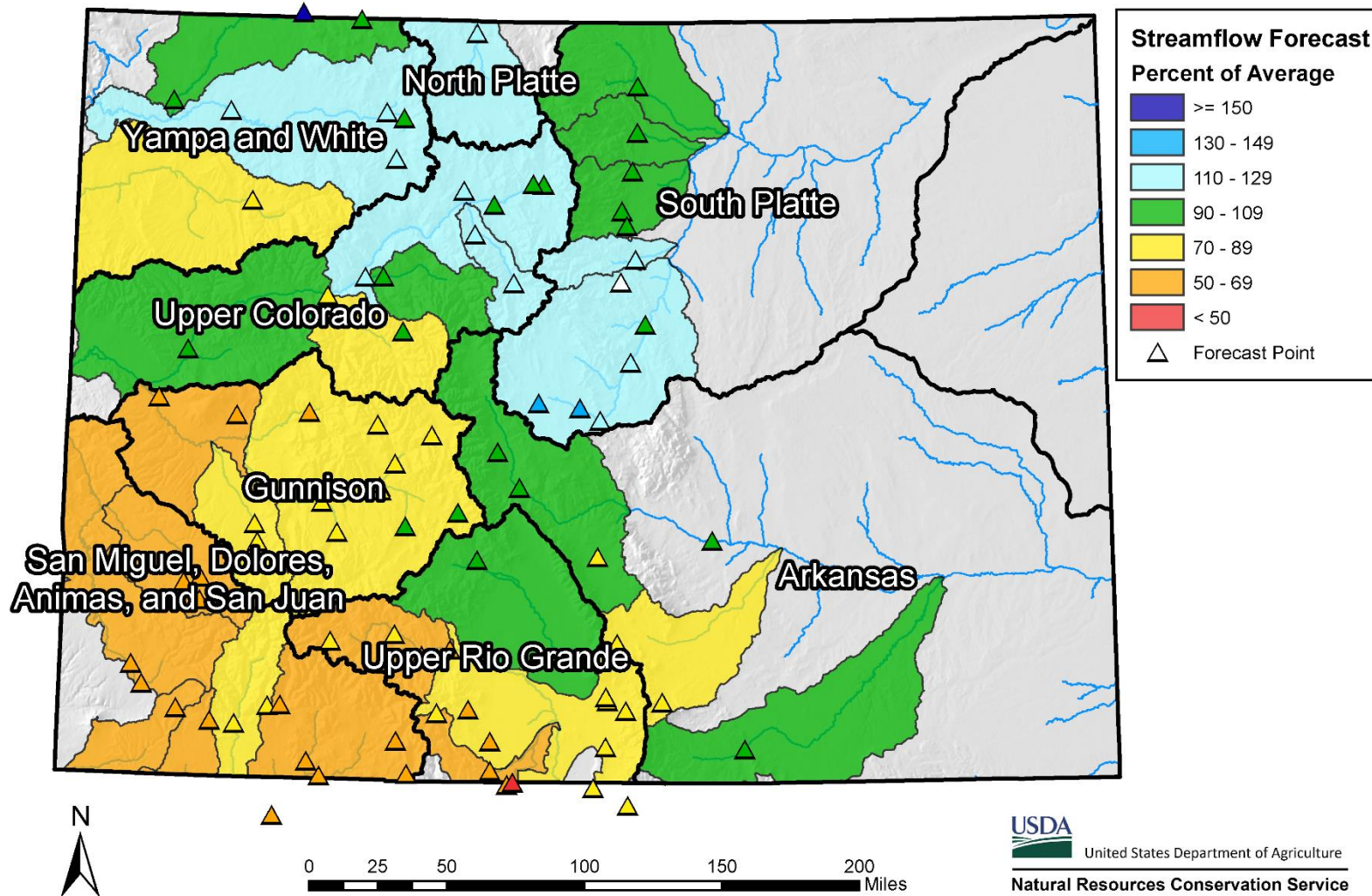
Colorado SNOTEL Water Year to Date Precipitation

Current as of Mar 17, 2020



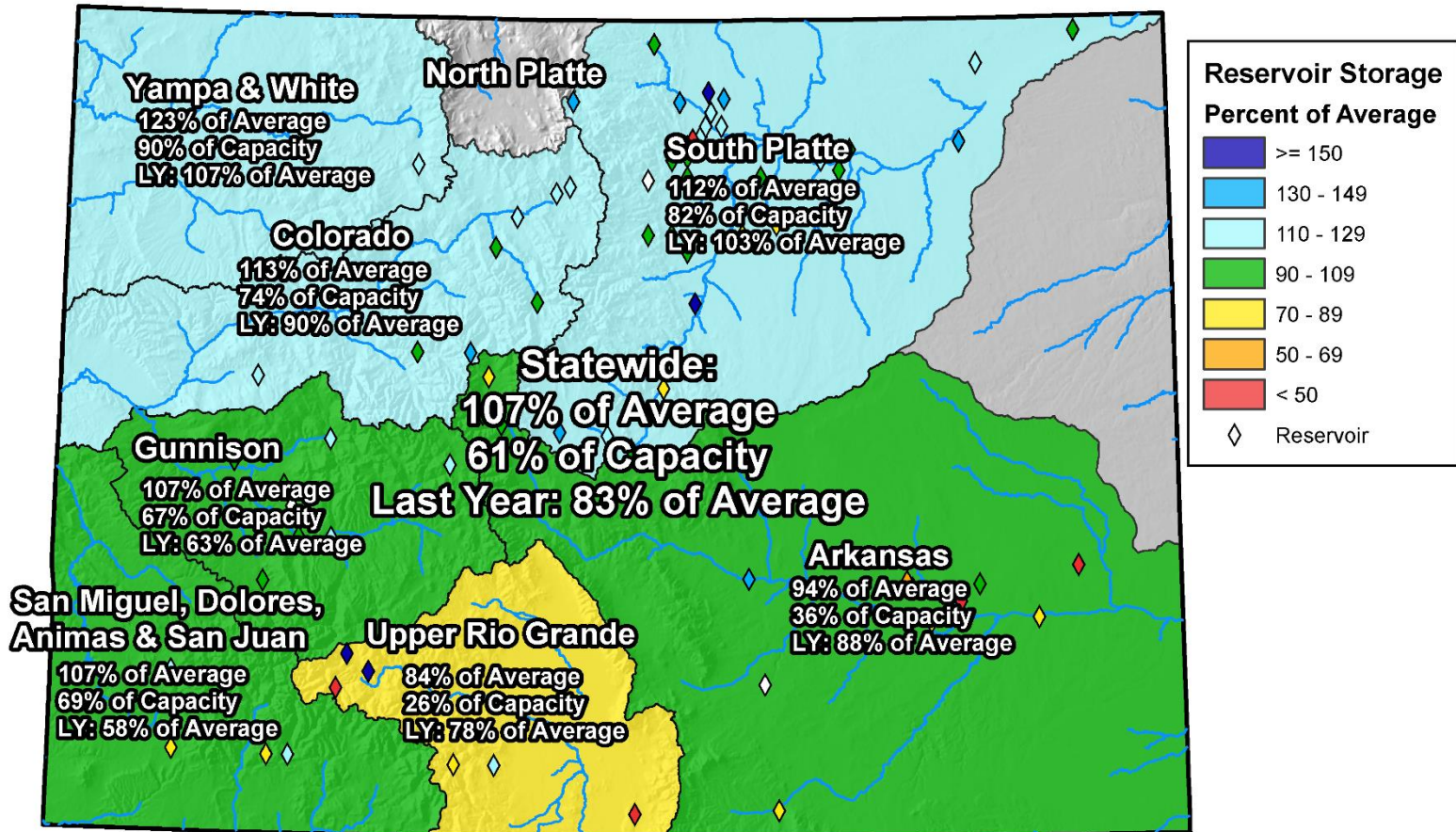
0 25 50 100 150 200 Miles

Colorado Streamflow Forecasts Summary March 1, 2020



Colorado Monthly Reservoir Storage Summary

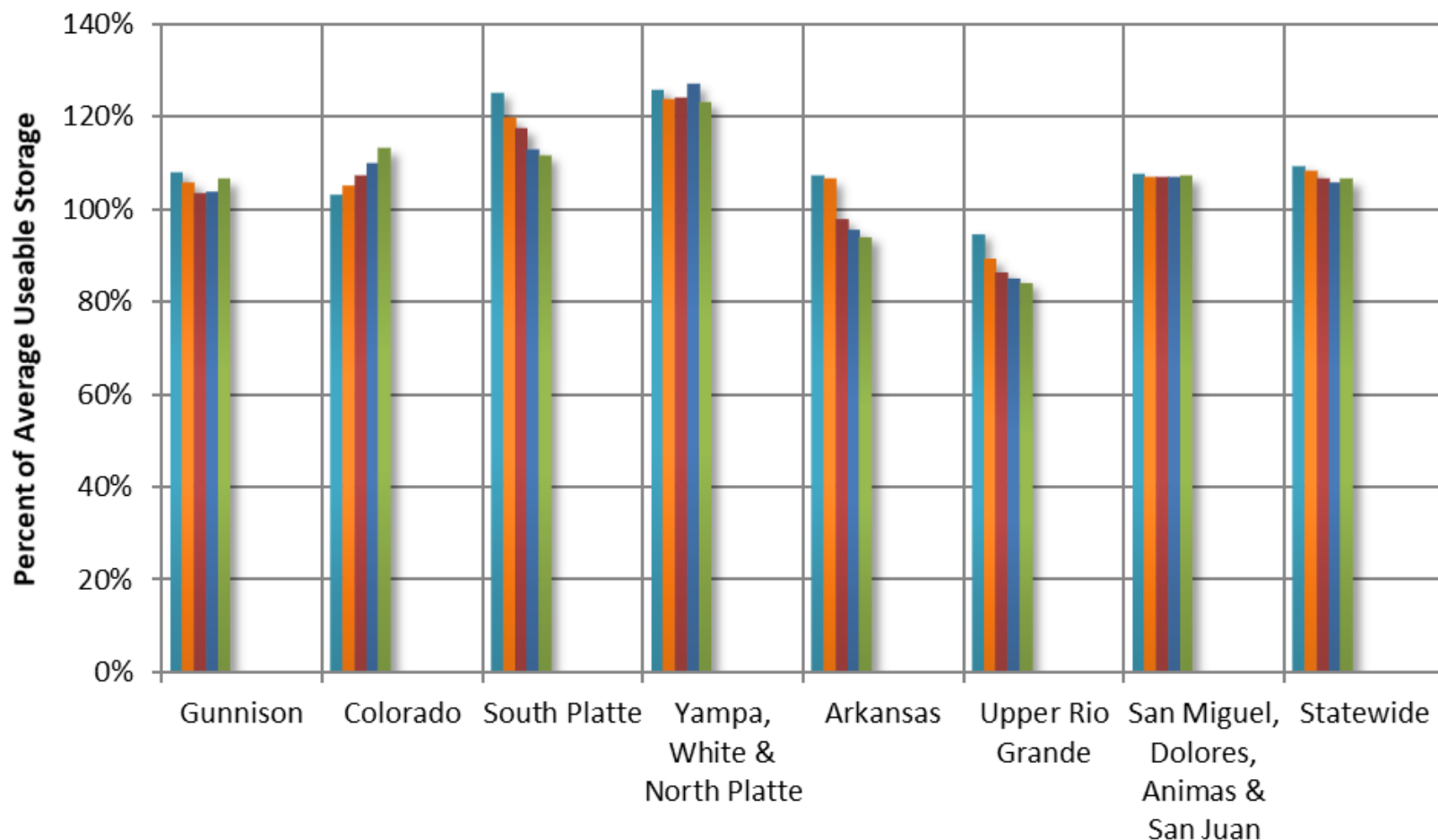
End of February 2020



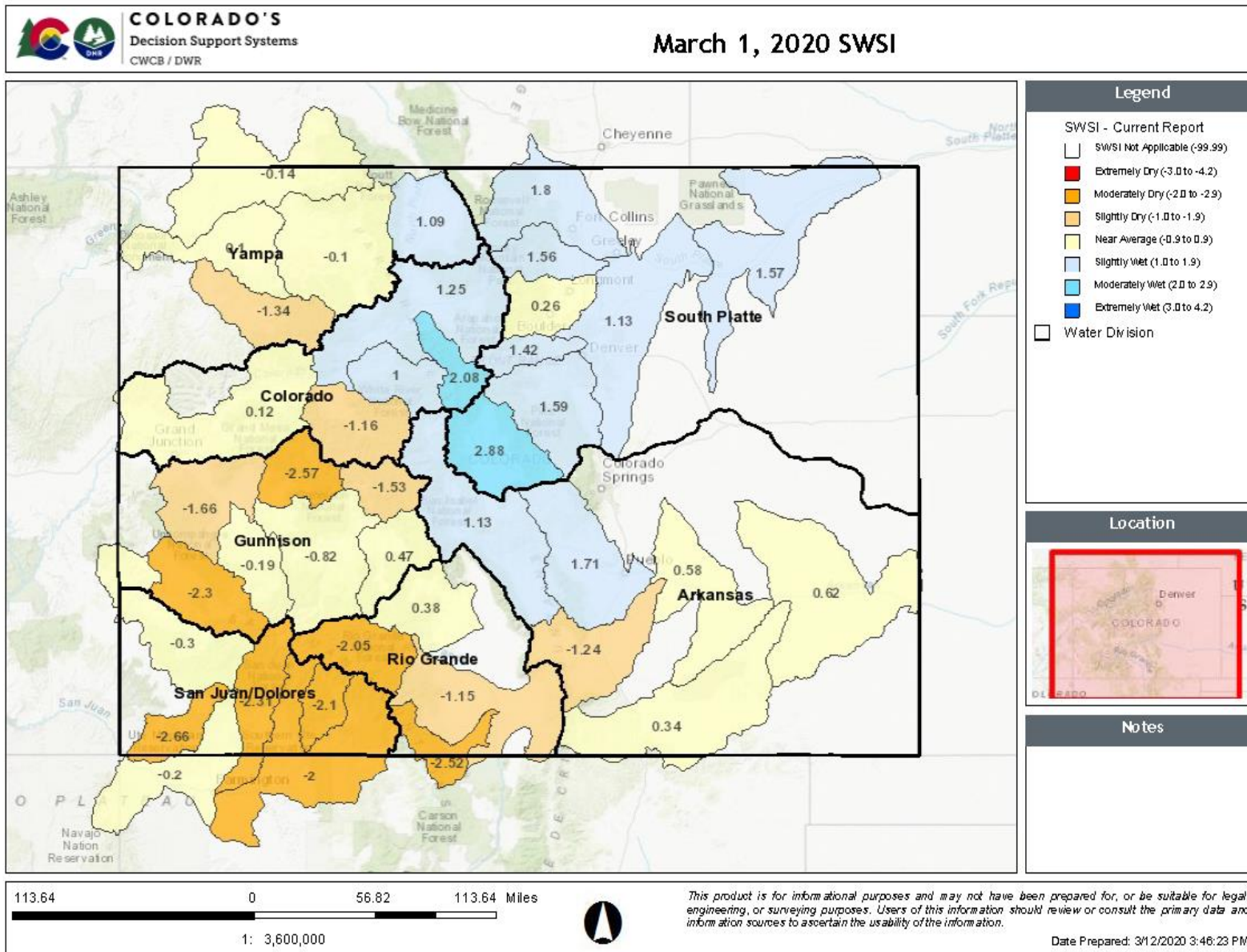
0 25 50 100 150 200 Miles

Colorado Reservoir Storage

■ Oct-19 ■ Nov-19 ■ Dec-19 ■ Jan-20 ■ Feb-20 ■ Mar-20
 ■ Apr-20 ■ May-20 ■ Jun-20 ■ Jul-20 ■ Aug-20 ■ Sep-20



March 1, 2020 SWSI



Summary

•Precipitation Statewide

- Statewide water year precip slipped from 95 to 90% of average from since last month's presentation on Feb 18th.
- Month to date precipitation has been generally consistent across the state but below normal at 65% since Mar 1st.

•Statewide snowpack has decreased 11% to 104% since last month's presentation

- Snowpack remains better in the northern basins
- Below average in the southern basins

•Reservoir storage remains above average in all major basins except for the Rio Grande and Arkansas (barely below), up from last month

- Ranging from 84-123% average storage and is 107% of average statewide

•Streamflow forecasts range from 54% (Surface Ck nr Cedaredge) to 132% (Spinney Res Inflow) of median values

- Dry fall precip is having implications on stream flow forecasts
- However based on March to date precip w/o a turn around fcsts will likely fall

- Have suspended Snow Surveys at manual snow courses for Apr 1 obs
- SNOTEL will continue to monitor



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Colorado Snow Surveys

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Colorado Snow Survey Supervisor

720-544-2852

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



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