



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

May 28th, 2020

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos

Hydrologist

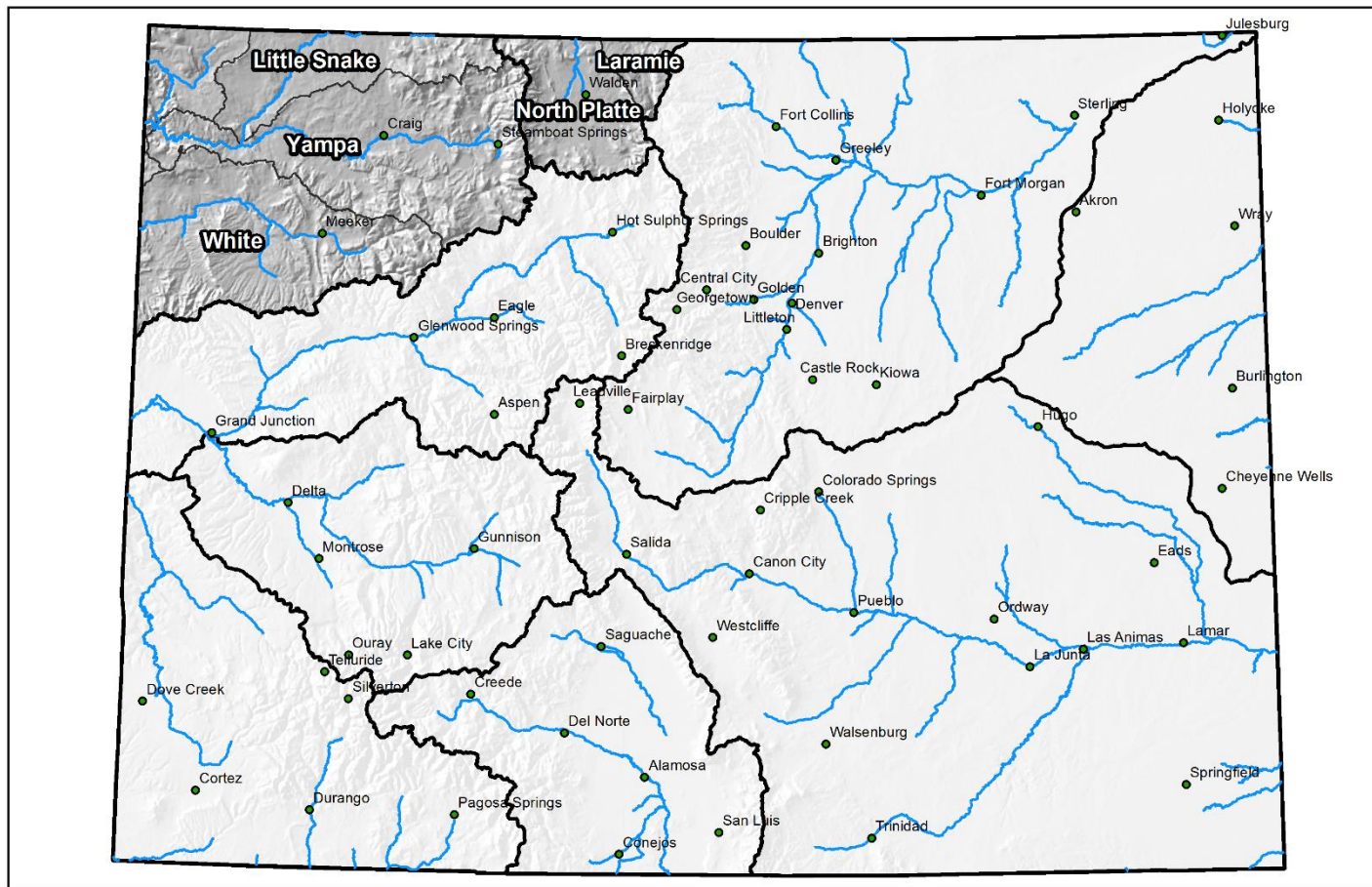
Colorado Snow Survey Supervisor

720-544-2852

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

Major Basin Summary

Yampa, White, and North Platte River Basins



0 25 50 100 150 200 Miles



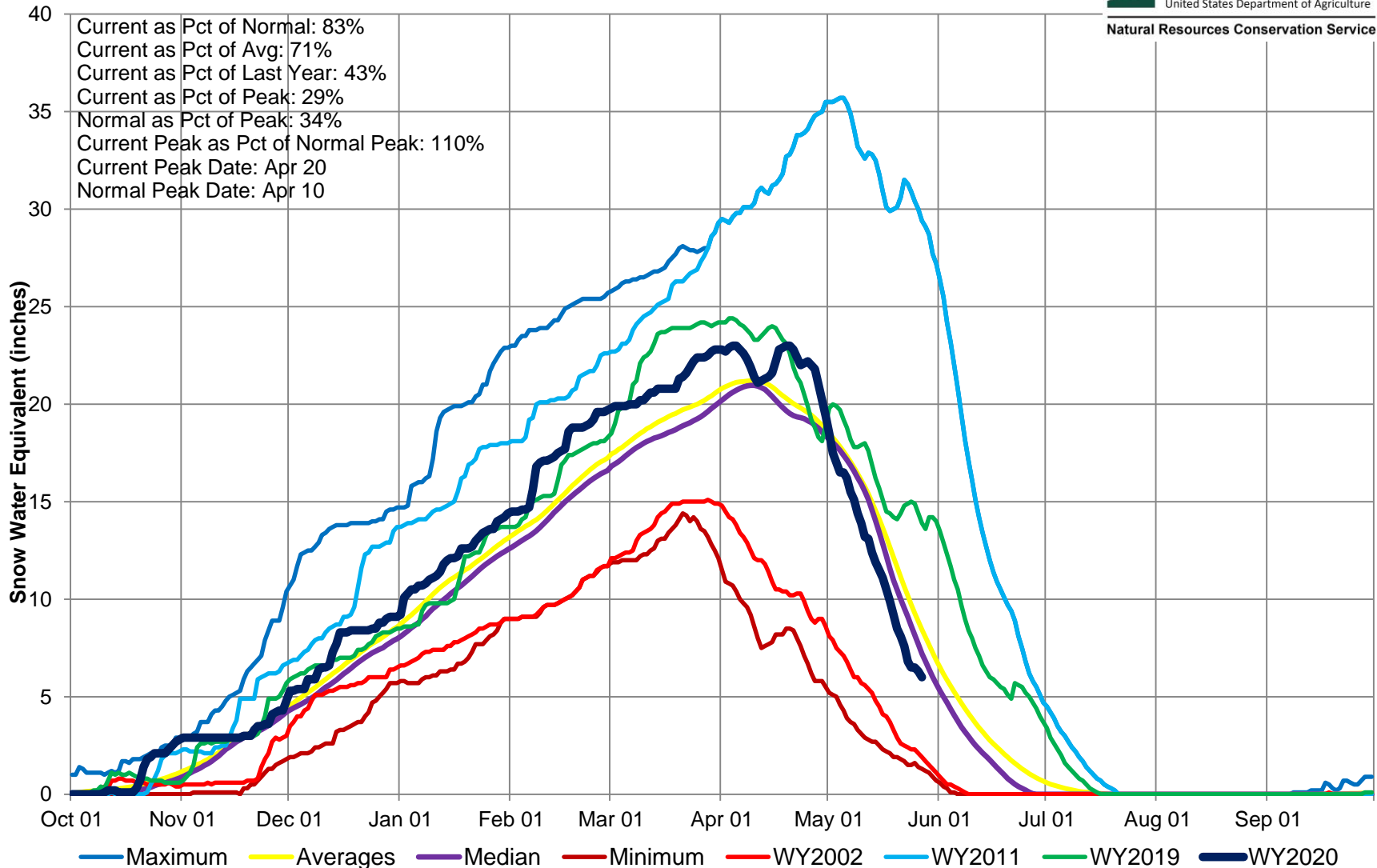
Yampa and White River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 27, 2020



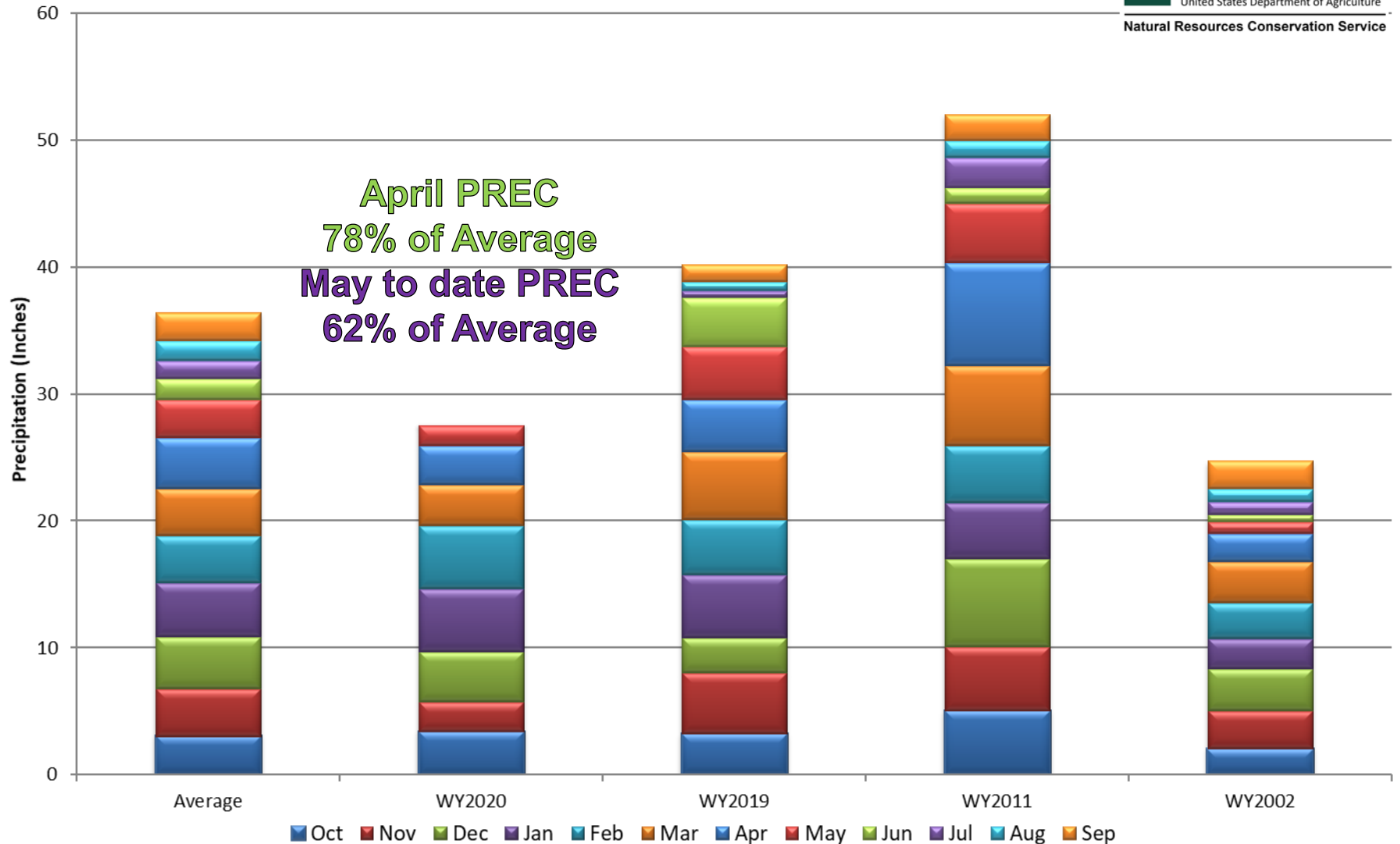
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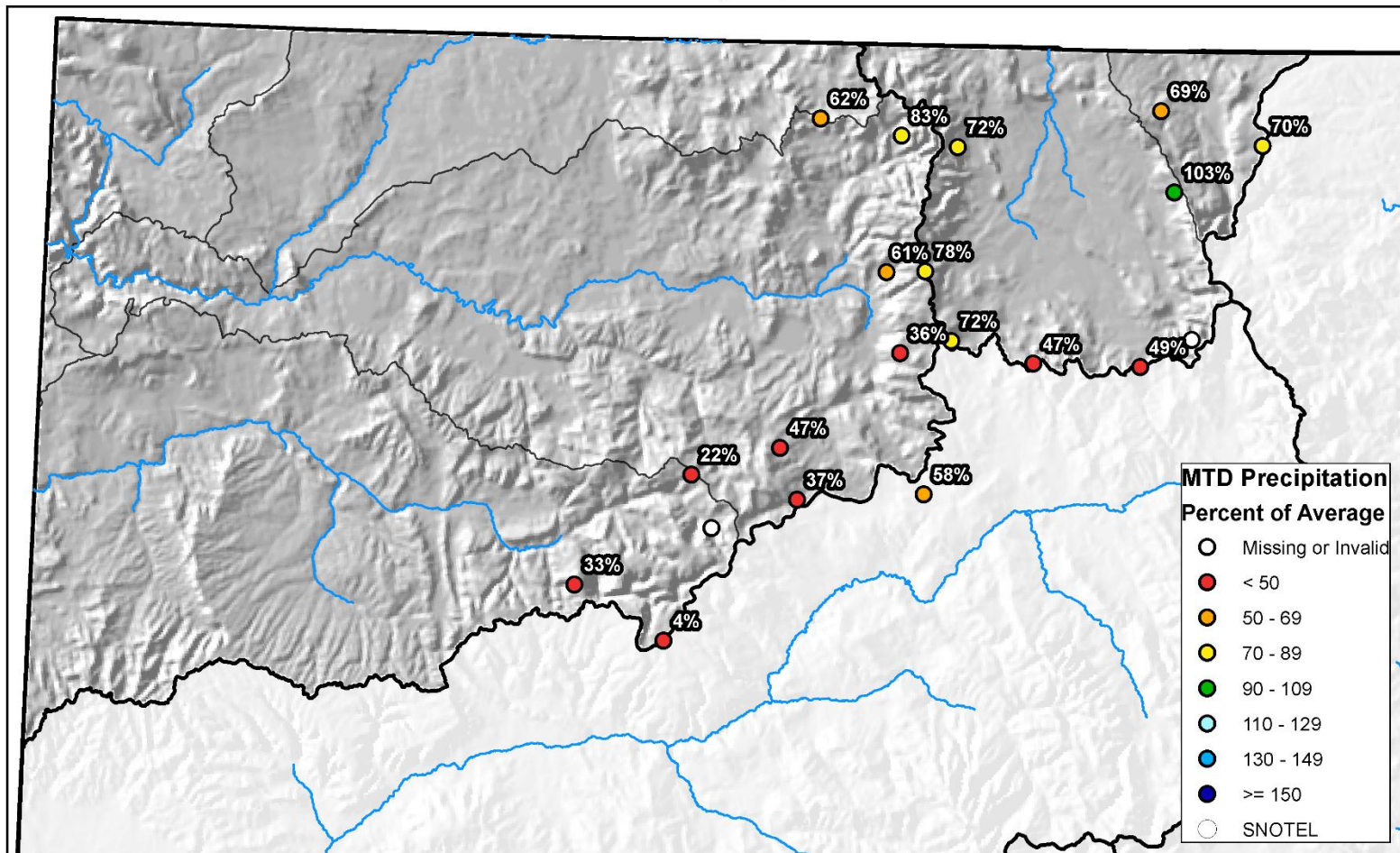


Yampa and White River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



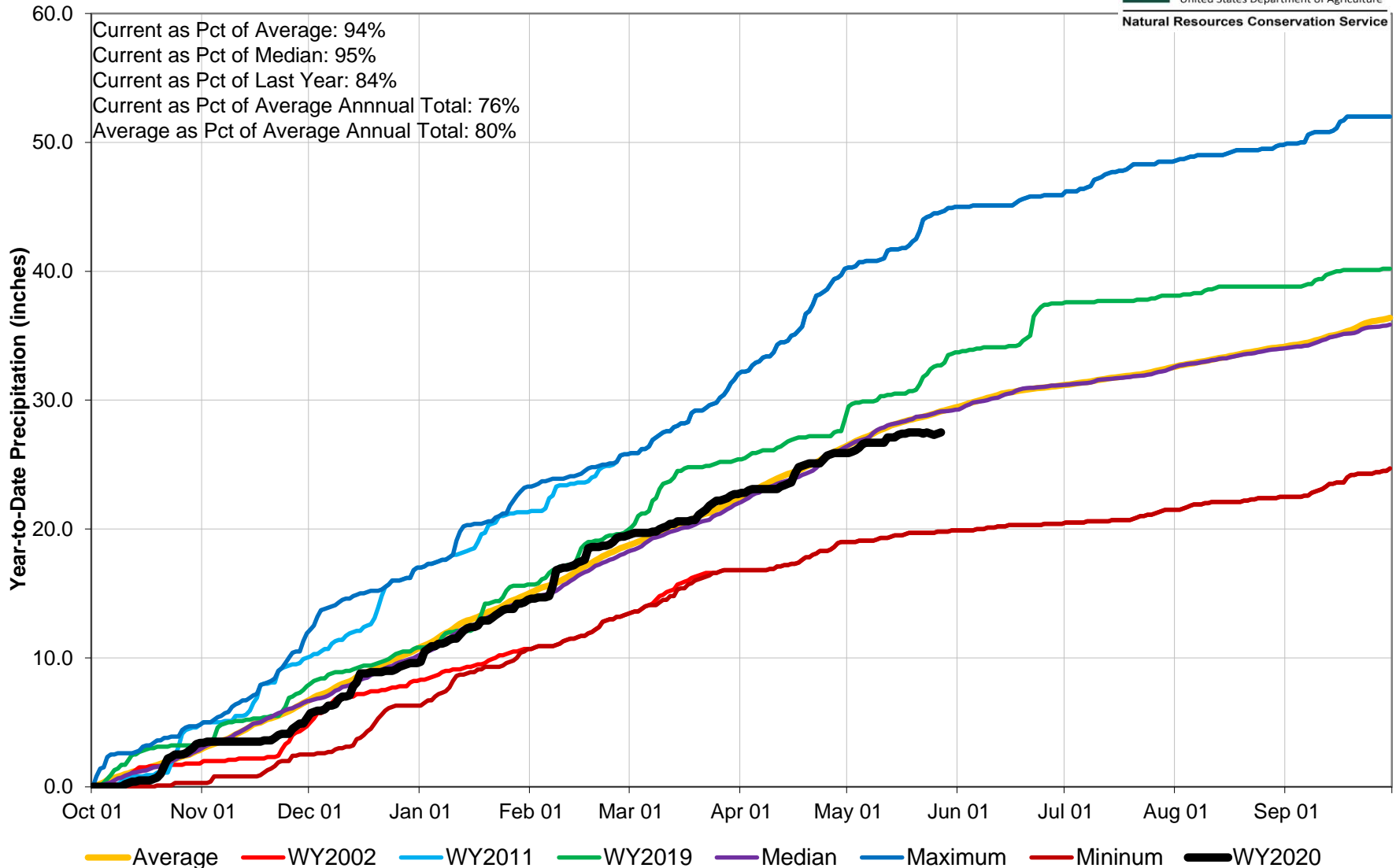
Yampa, White, and North Platte River Basins Month to Date Precipitation Summary Current as of May 27, 2020



0 10 20 40 60 80 Miles

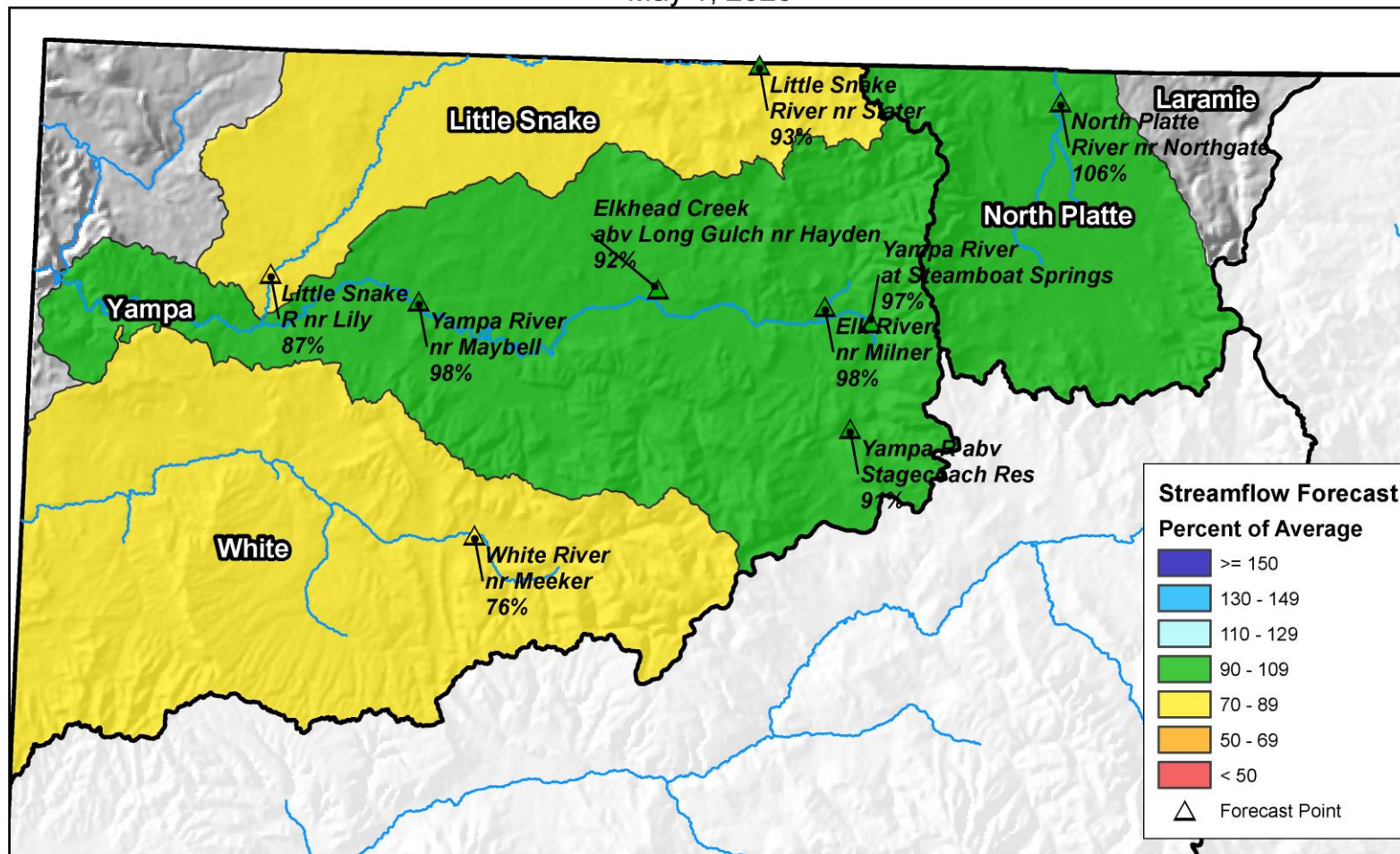
Yampa and White River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020

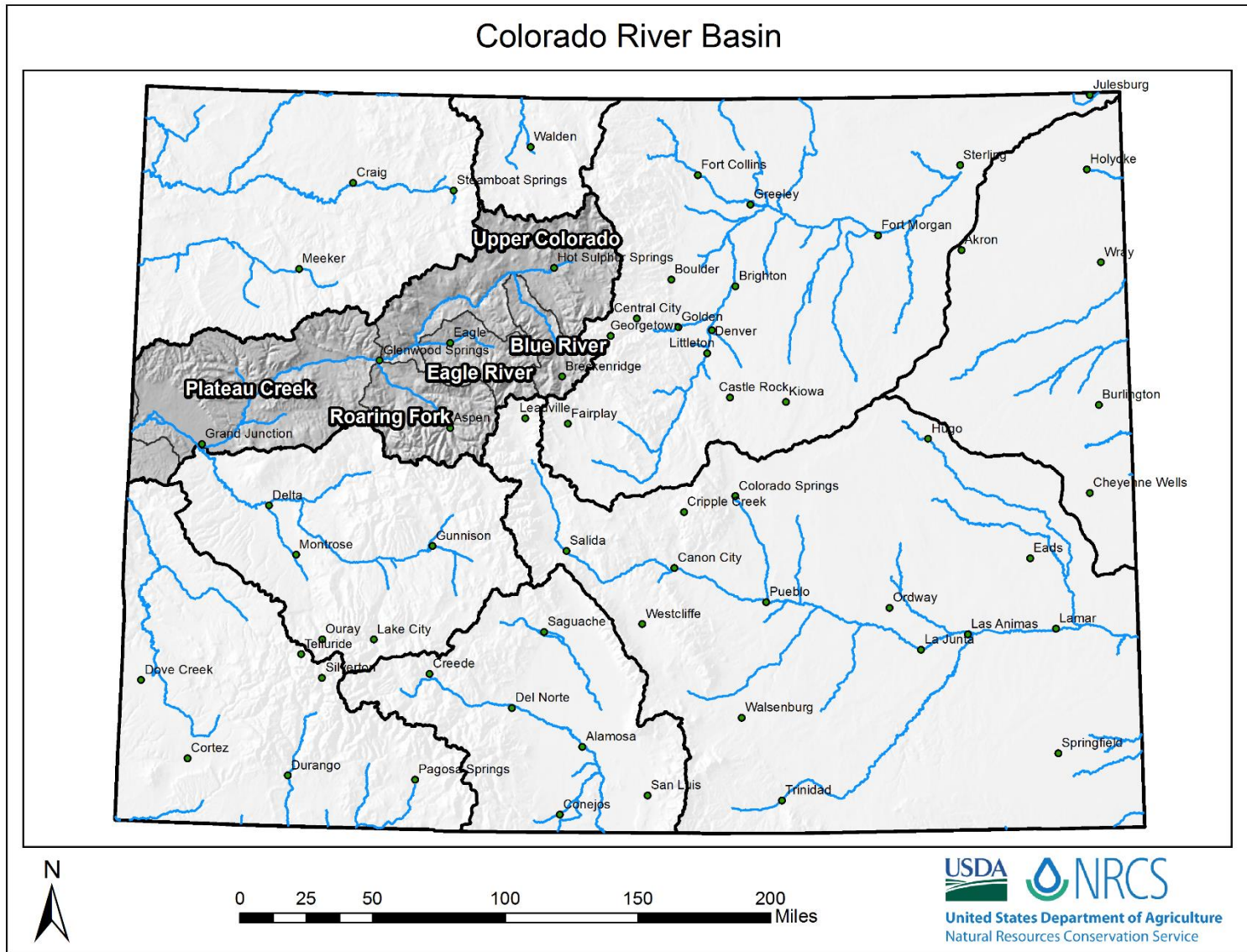


Yampa, White, and North Platte River Basins Streamflow Forecast Summary

May 1, 2020



Major Basin Summary





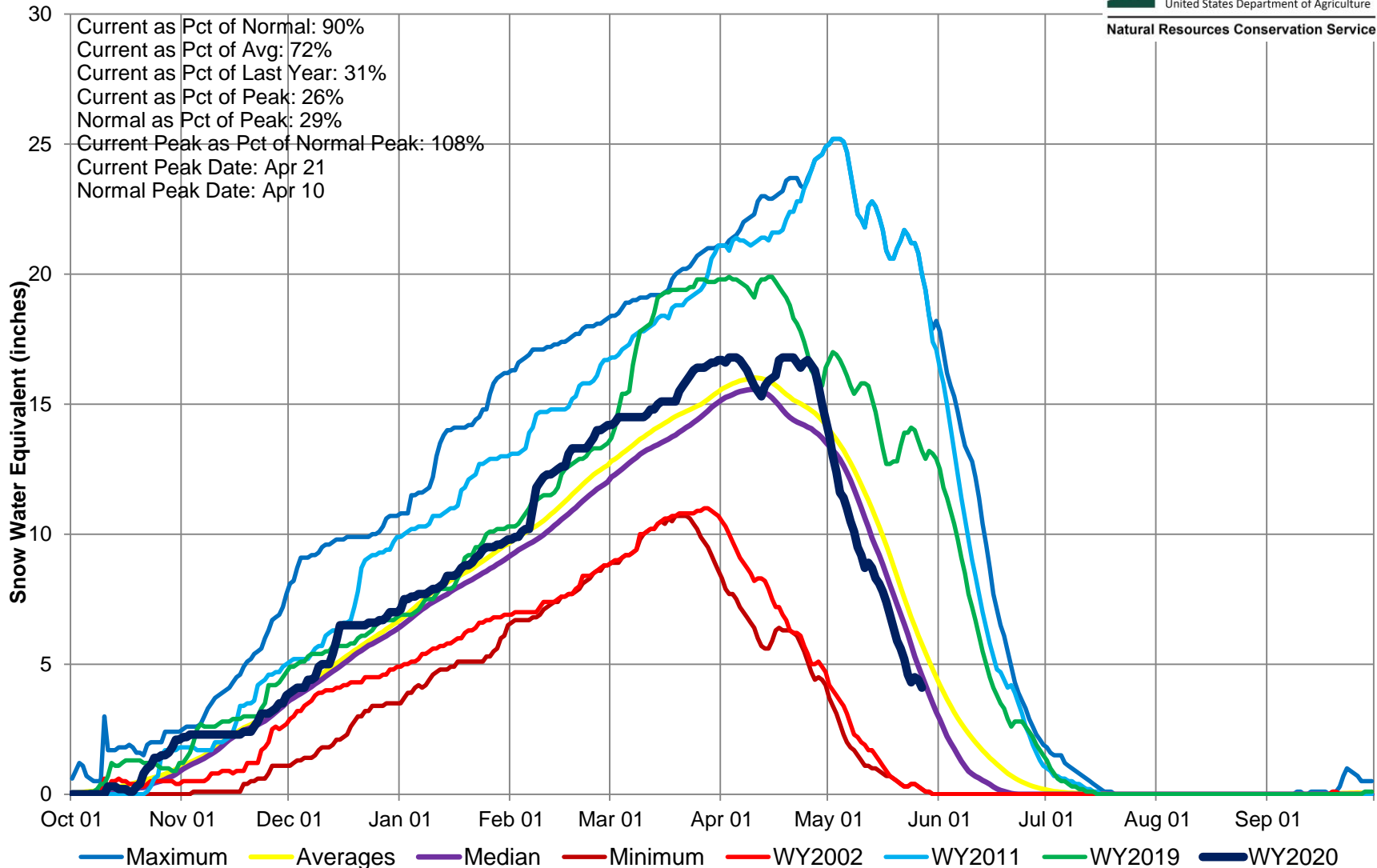
Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 27, 2020



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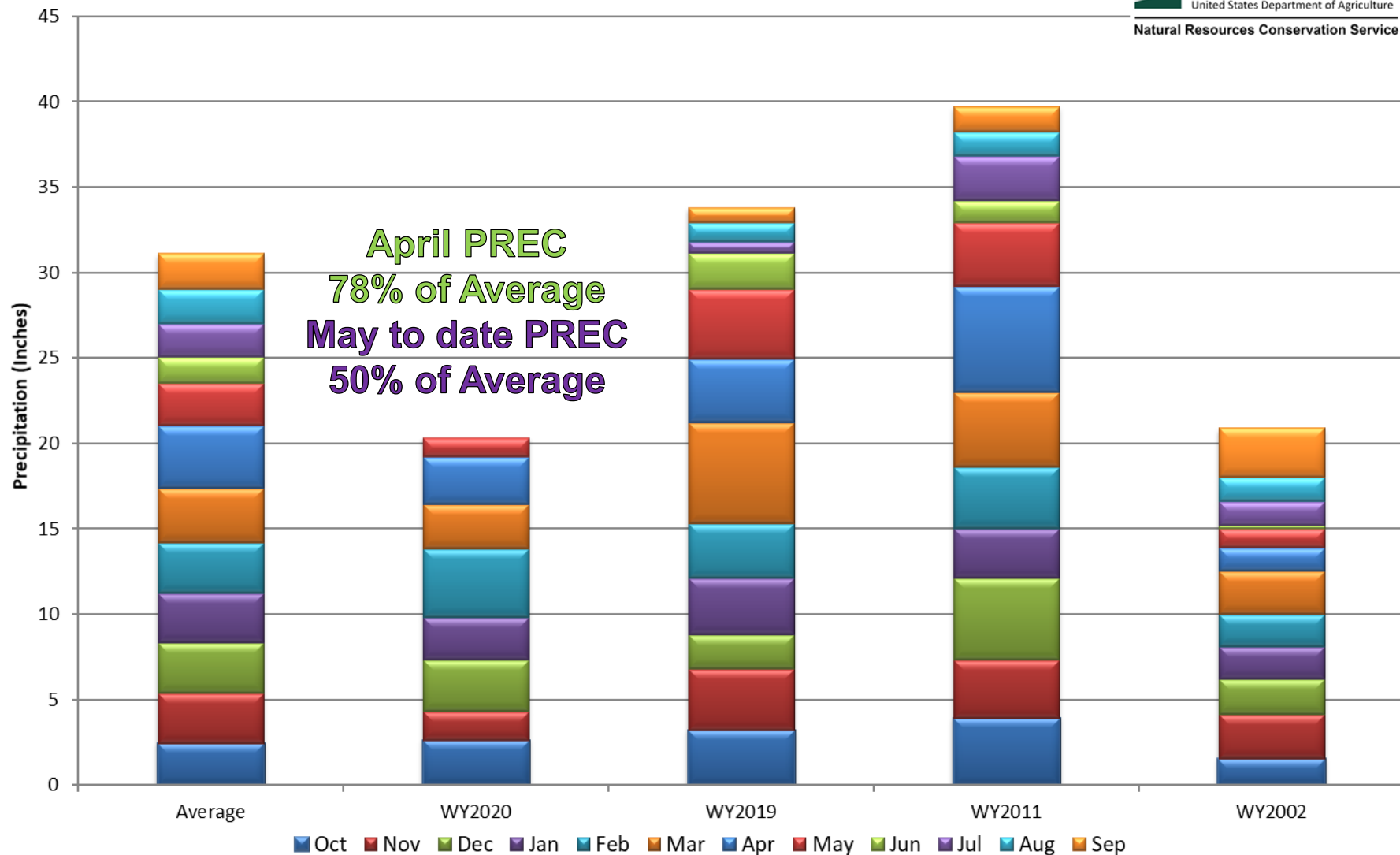
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



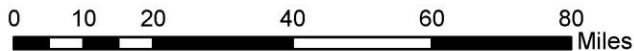
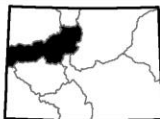
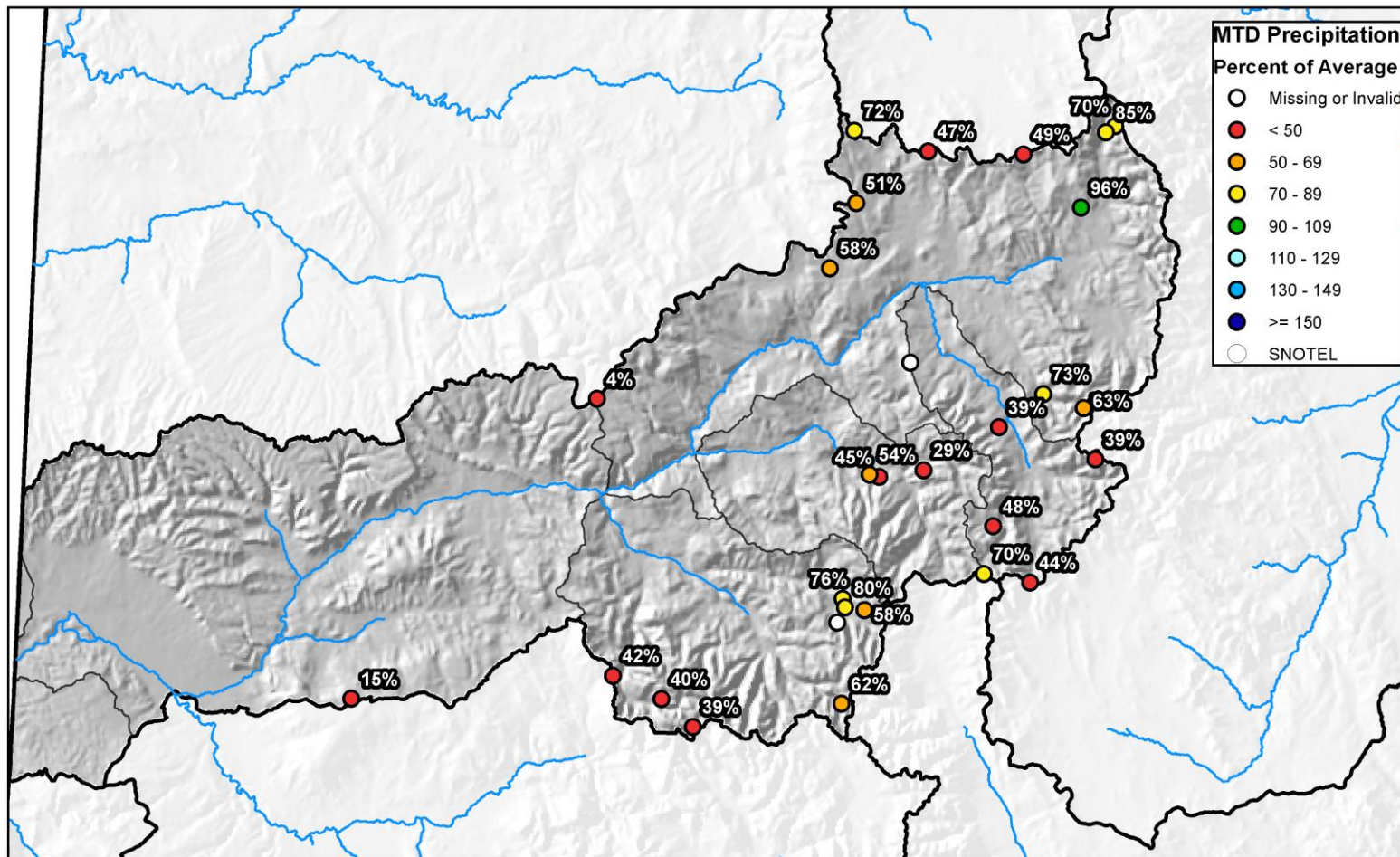
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Upper Colorado River Basin Month to Date Precipitation Summary

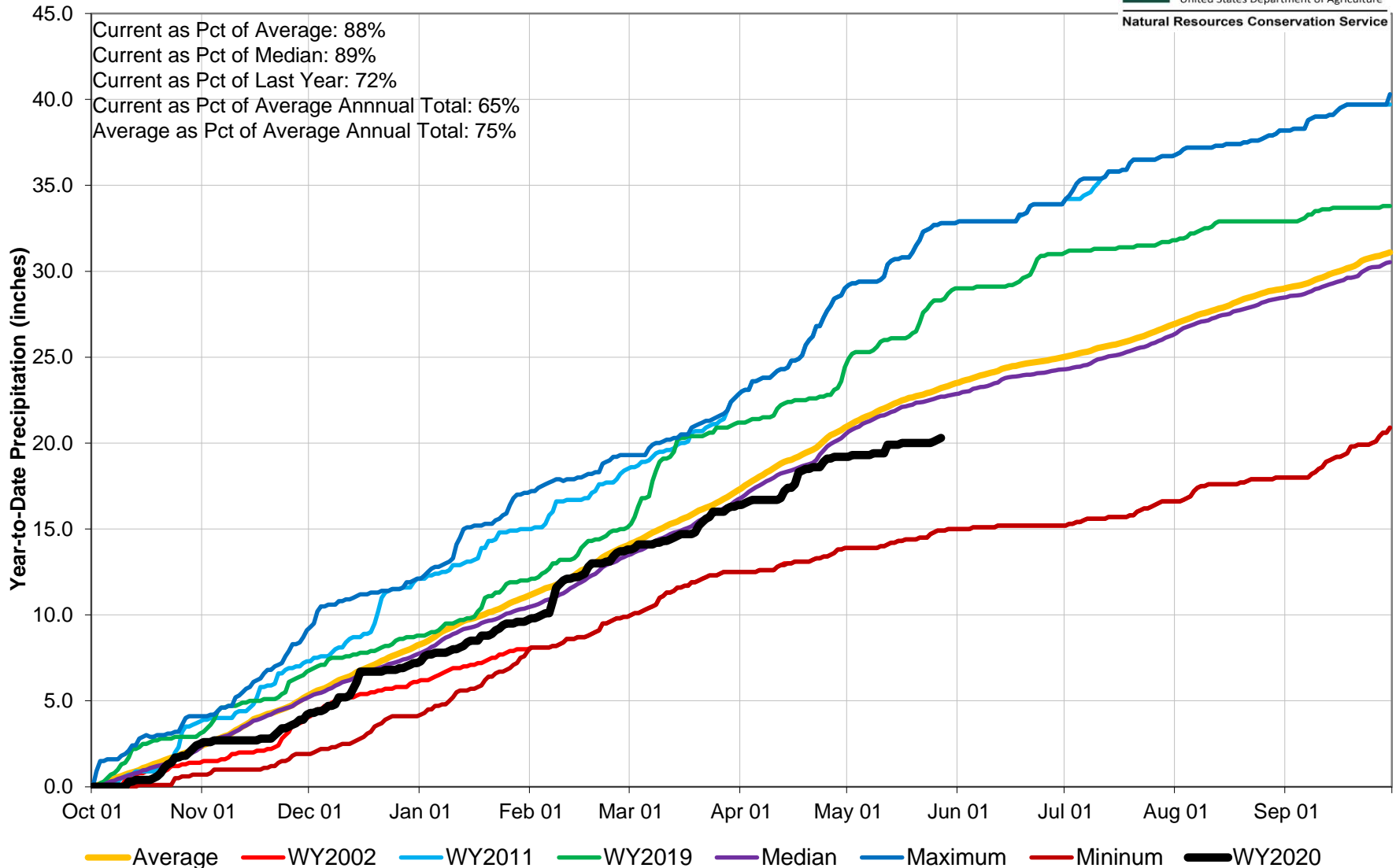
Current as of May 27, 2020





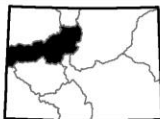
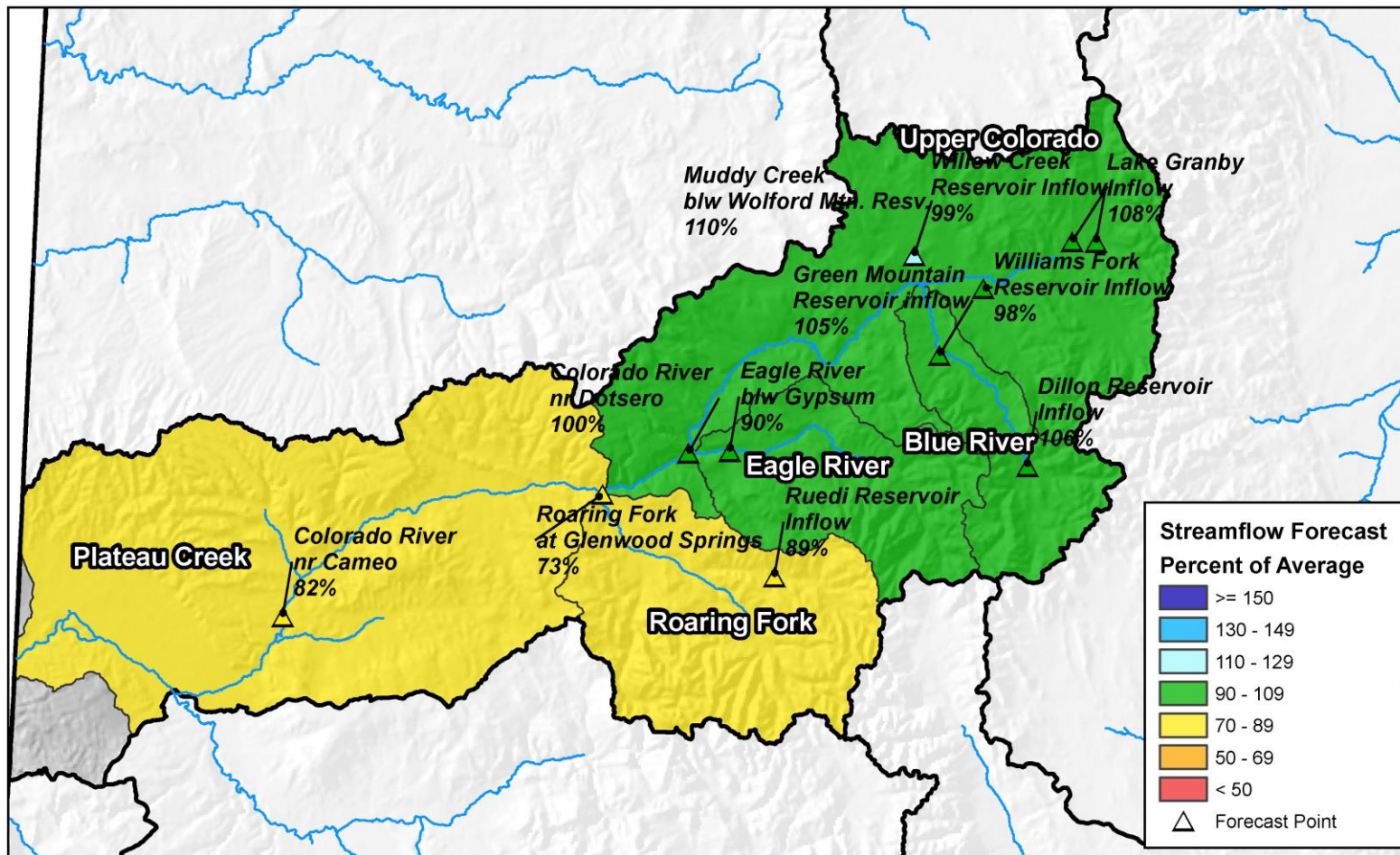
Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



Upper Colorado River Basin Streamflow Forecast Summary

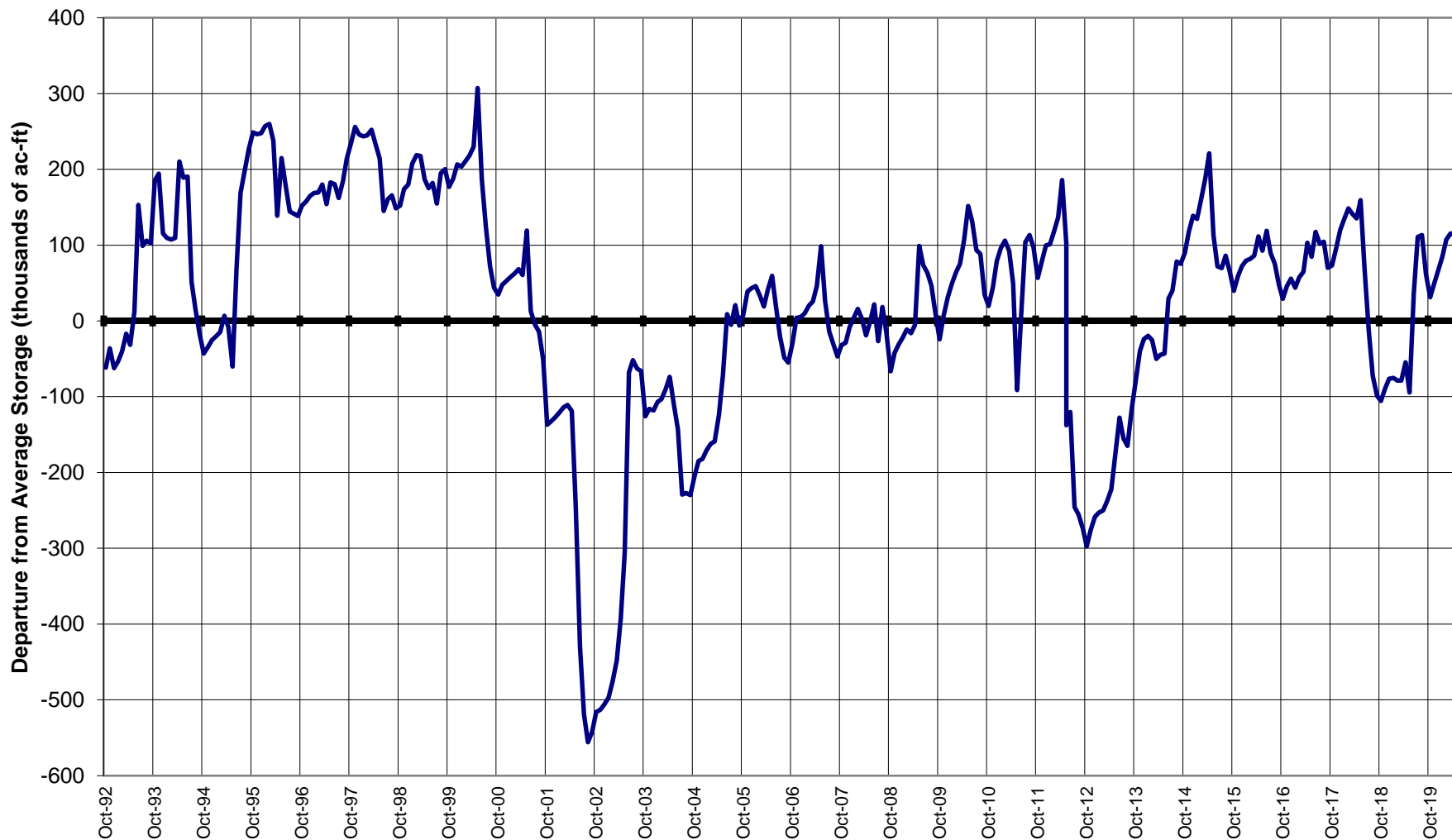
May 1, 2020



0 10 20 40 60 80 Miles

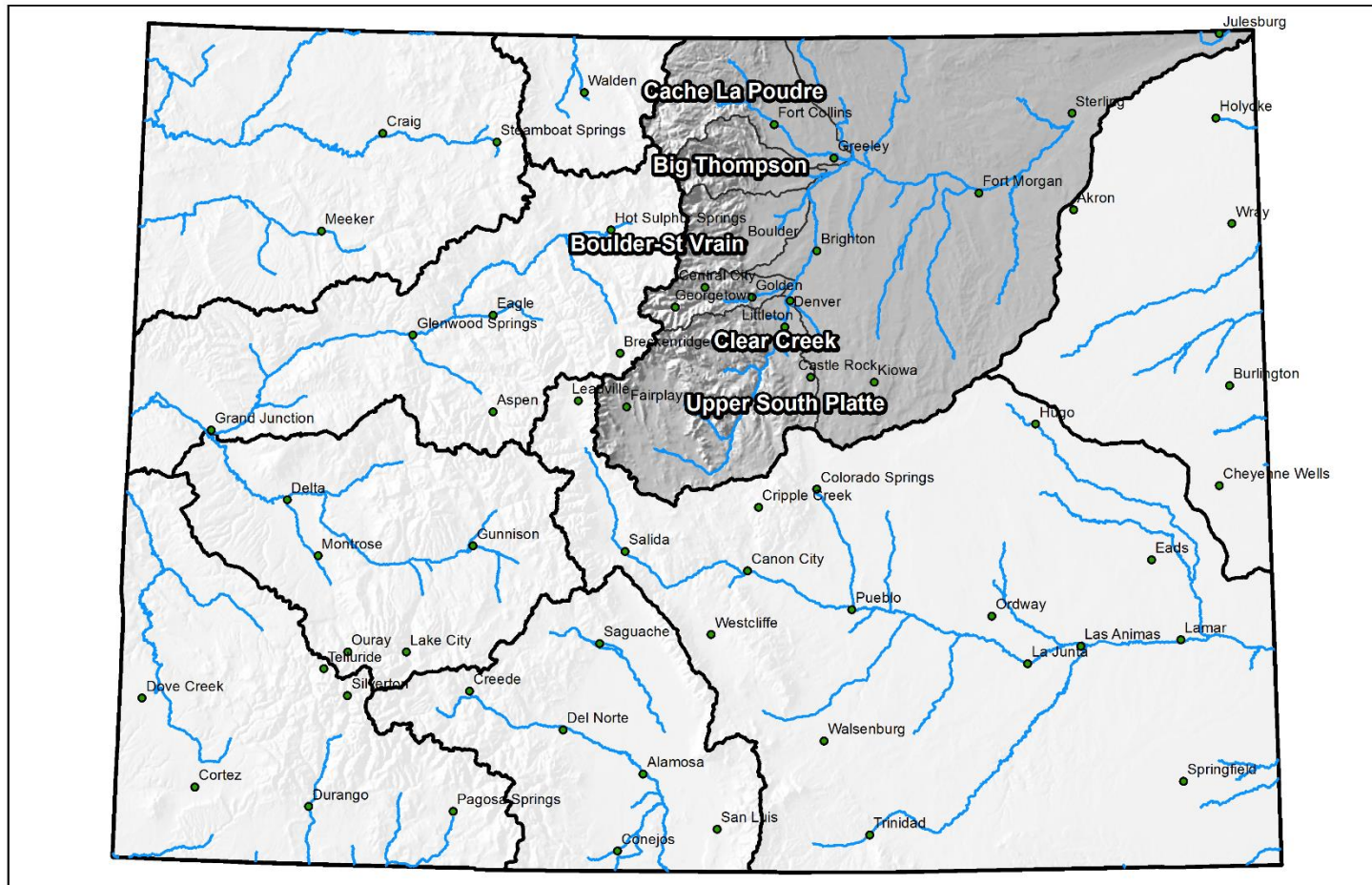


COLORADO RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

South Platte River Basin



0 25 50 100 150 200 Miles



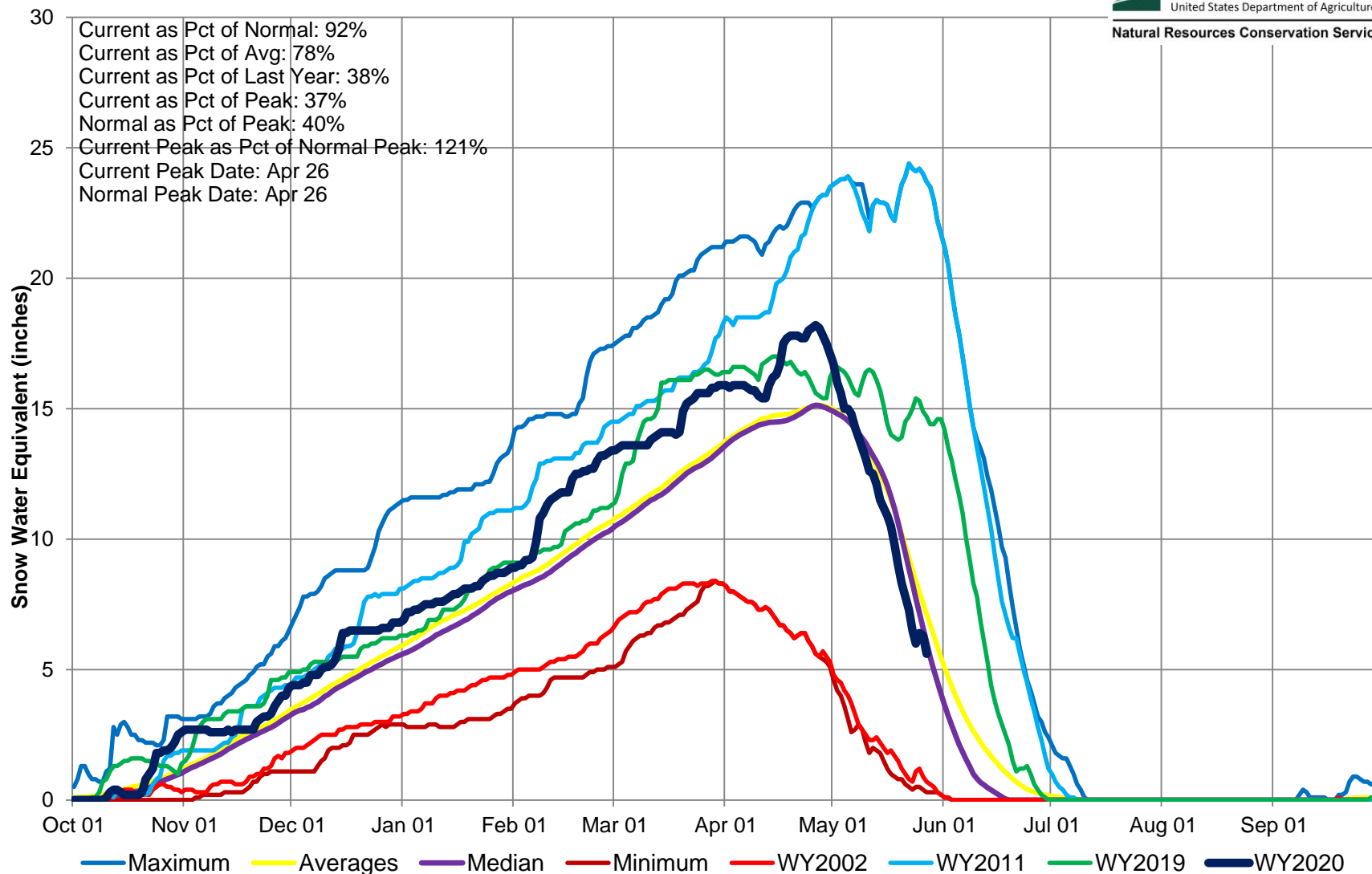
South Platte River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 27, 2020



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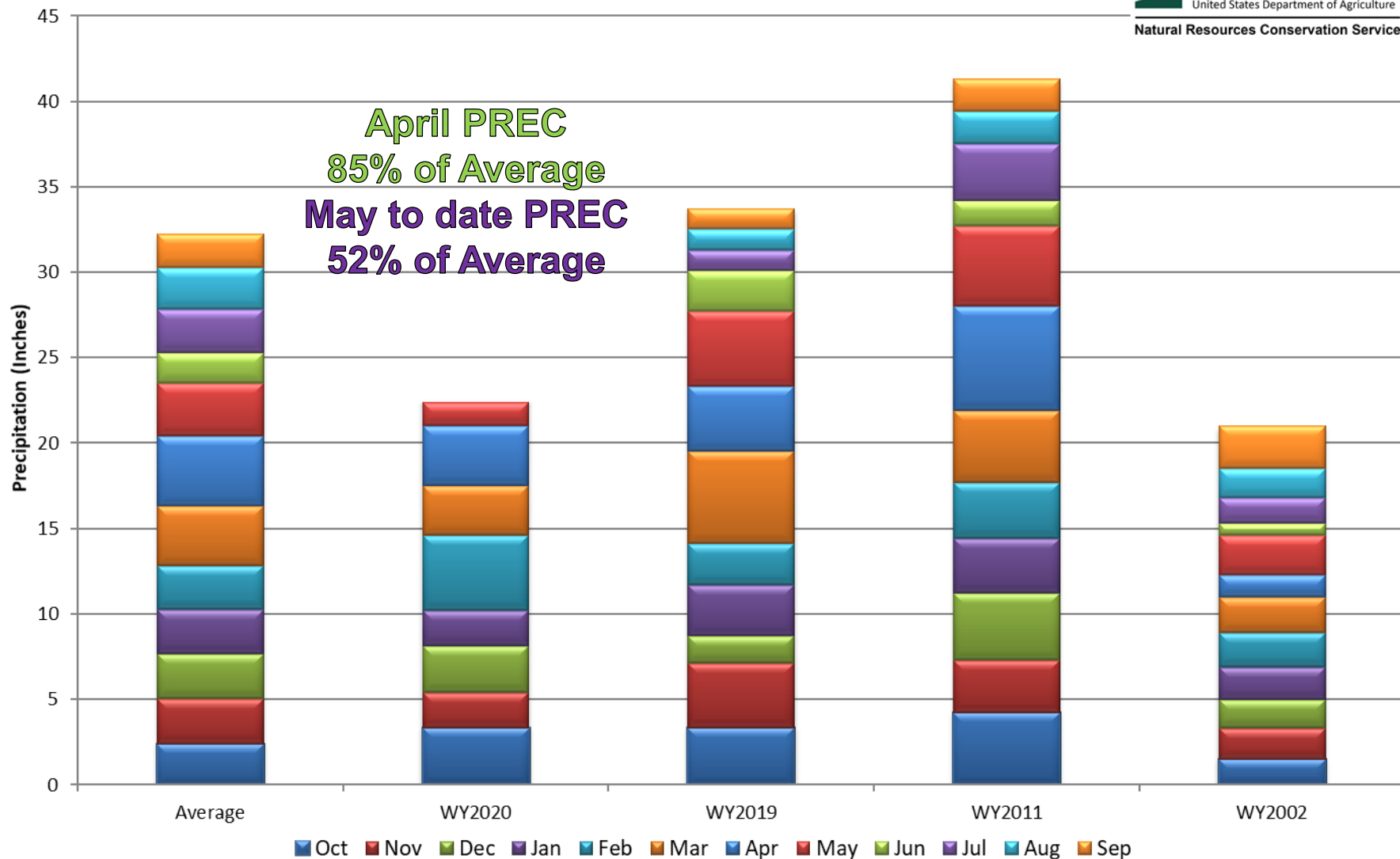
South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



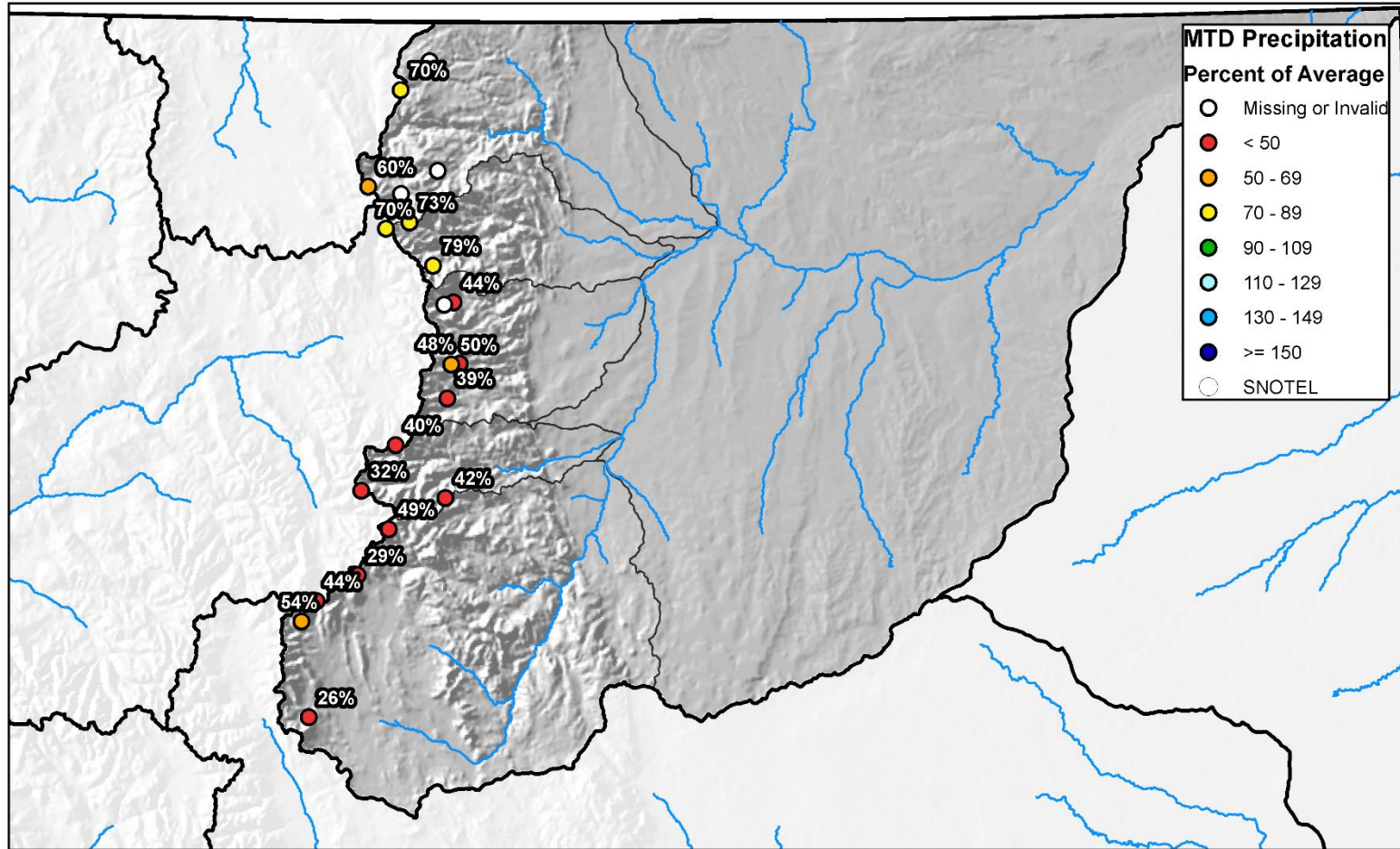
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South Platte River Basin Month to Date Precipitation Summary

Current as of May 27, 2020

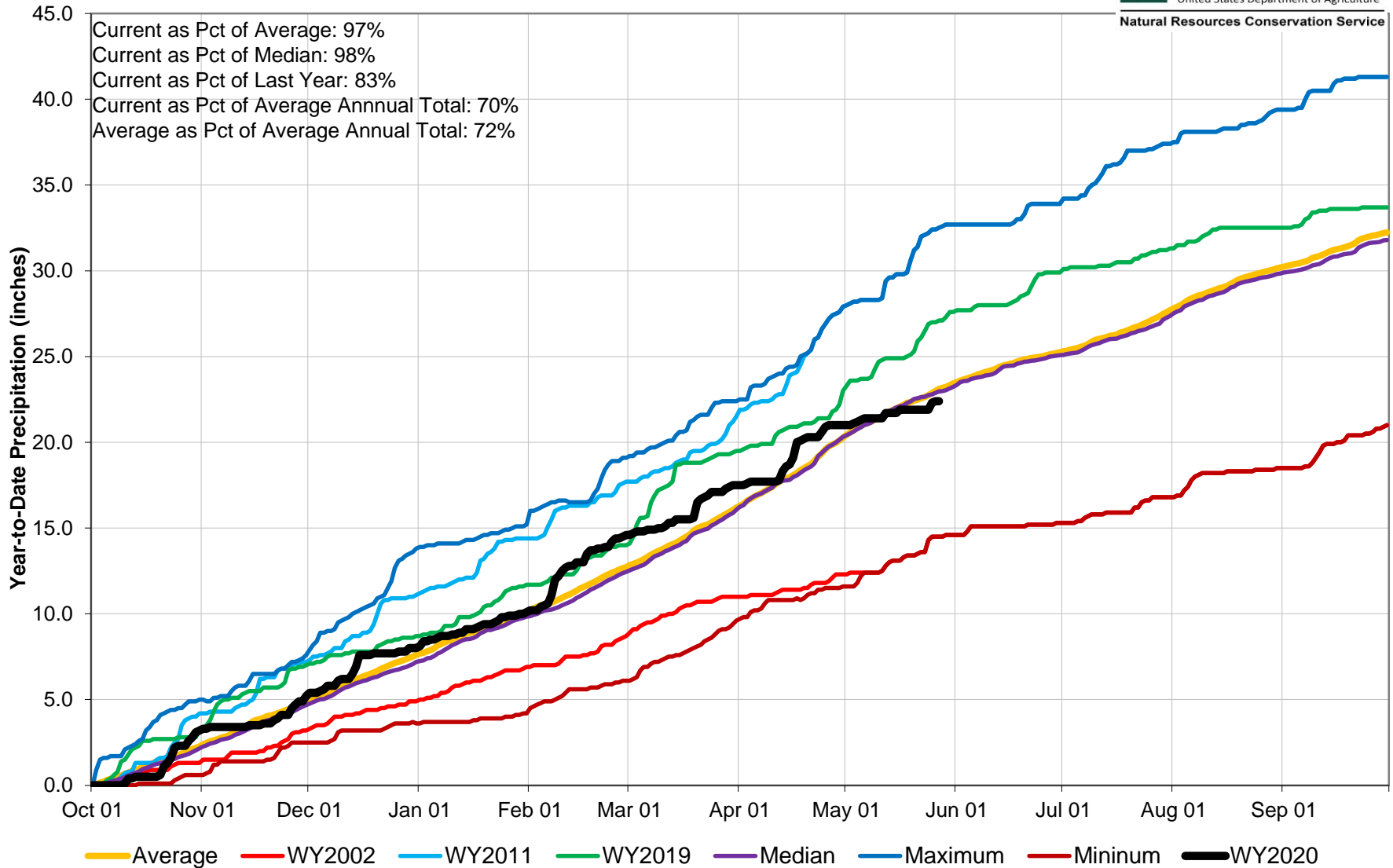


0 10 20 40 60 80 Miles



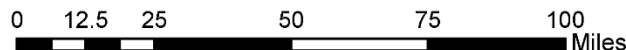
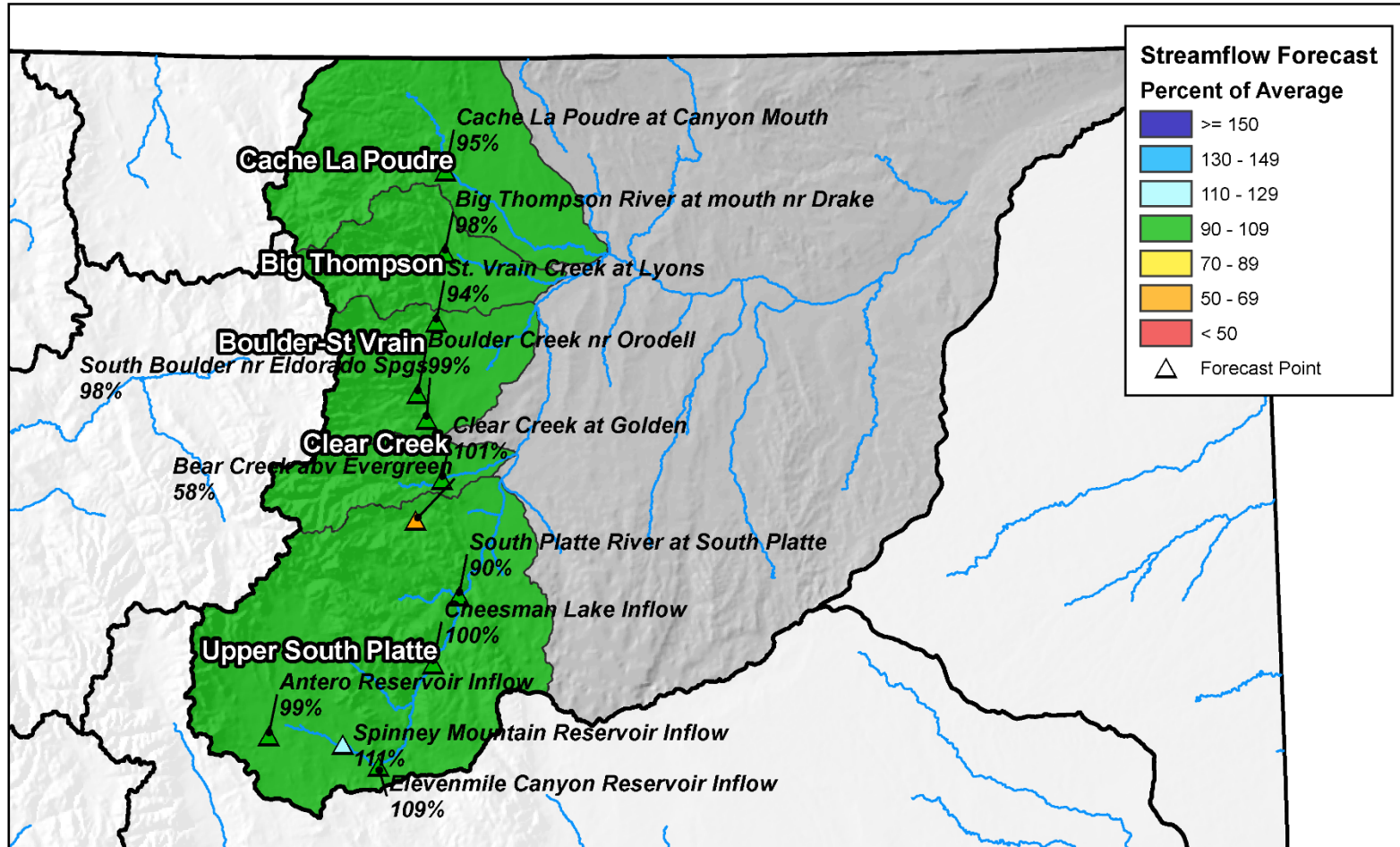
South Platte River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



South Platte River Basin Streamflow Forecast Summary

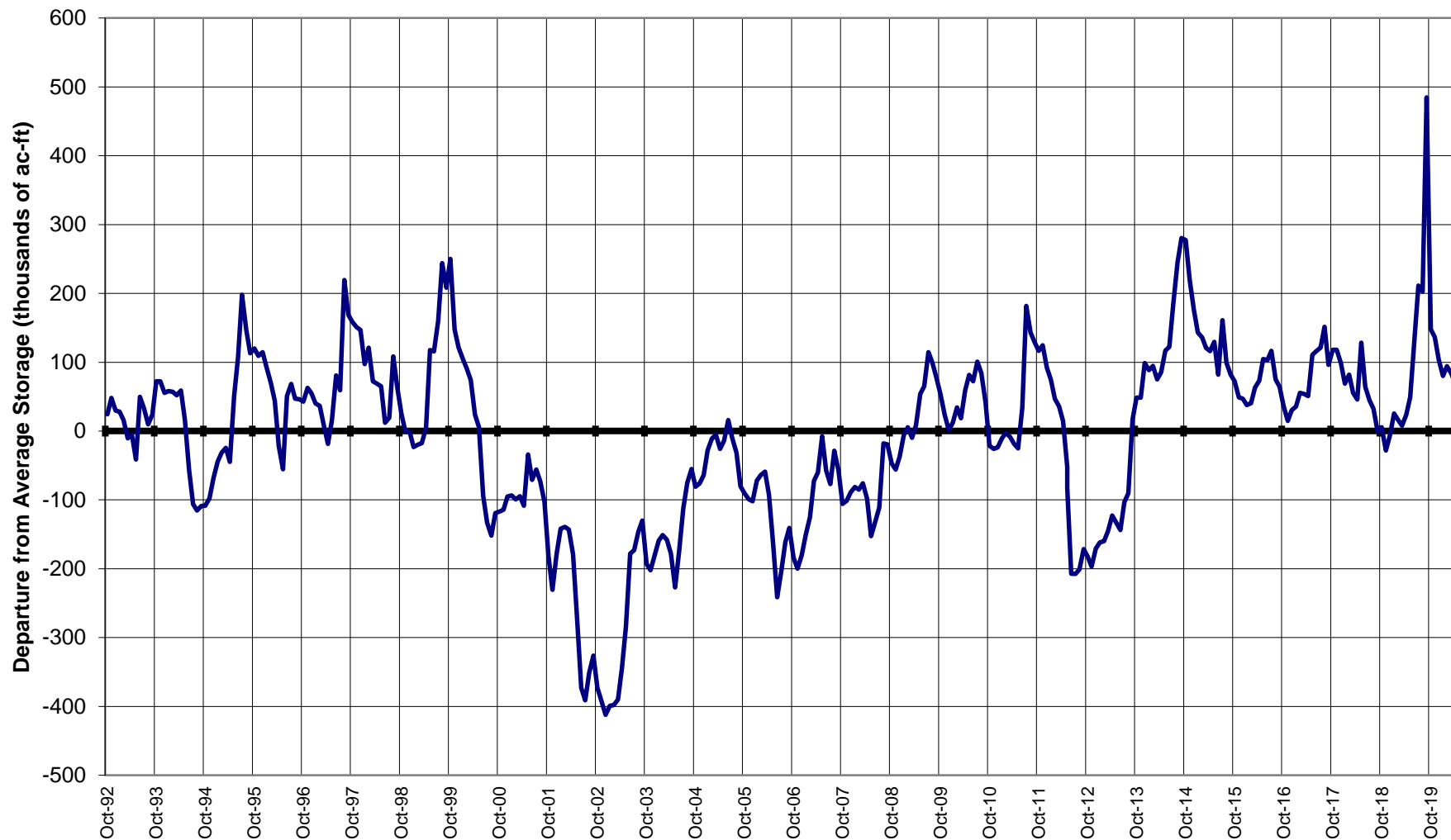
May 1, 2020





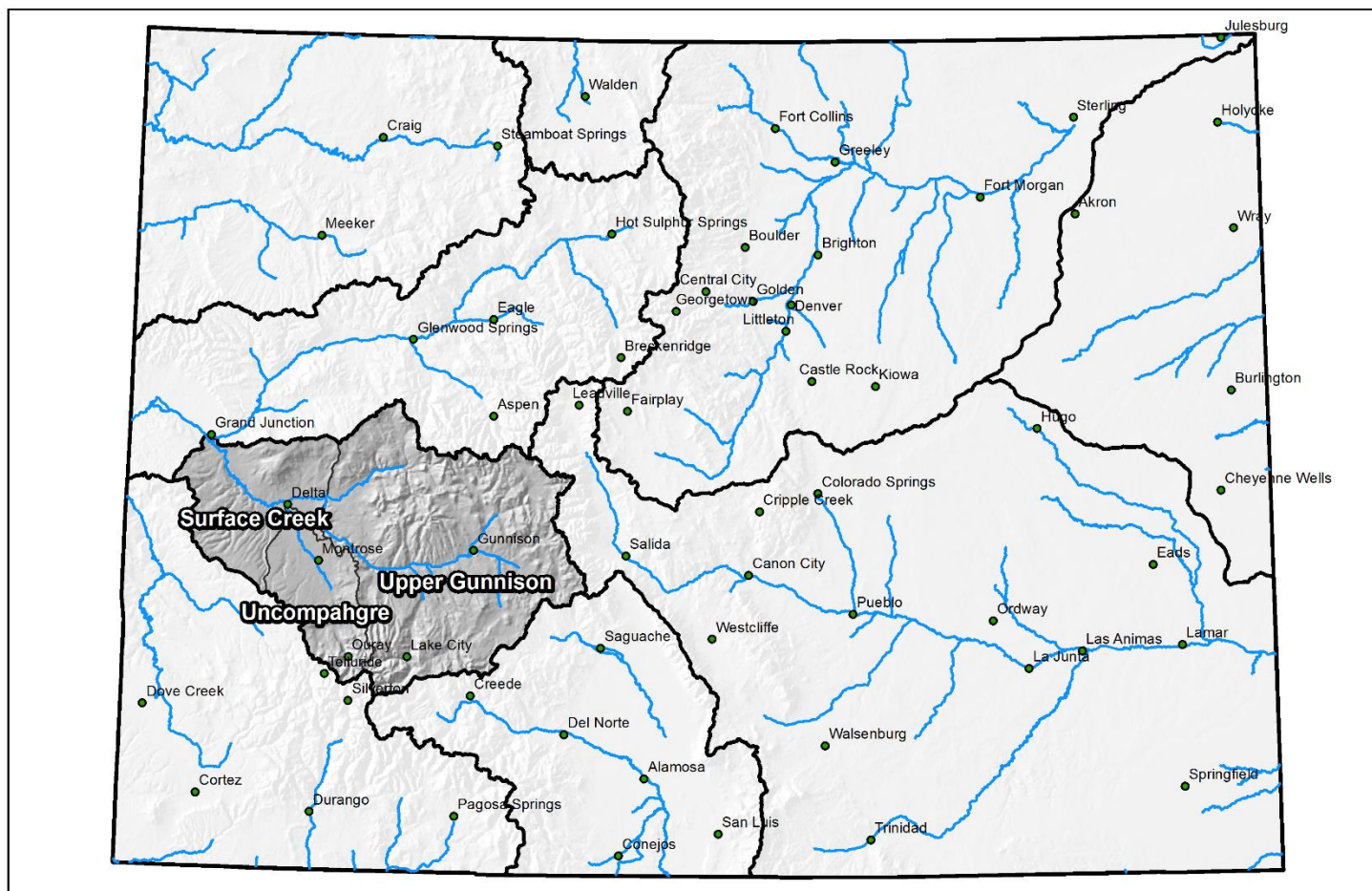
SOUTH PLATTE RIVER BASIN

Reservoir Storage
Departure from Average



Major Basin Summary

Gunnison River Basin



0 25 50 100 150 200 Miles



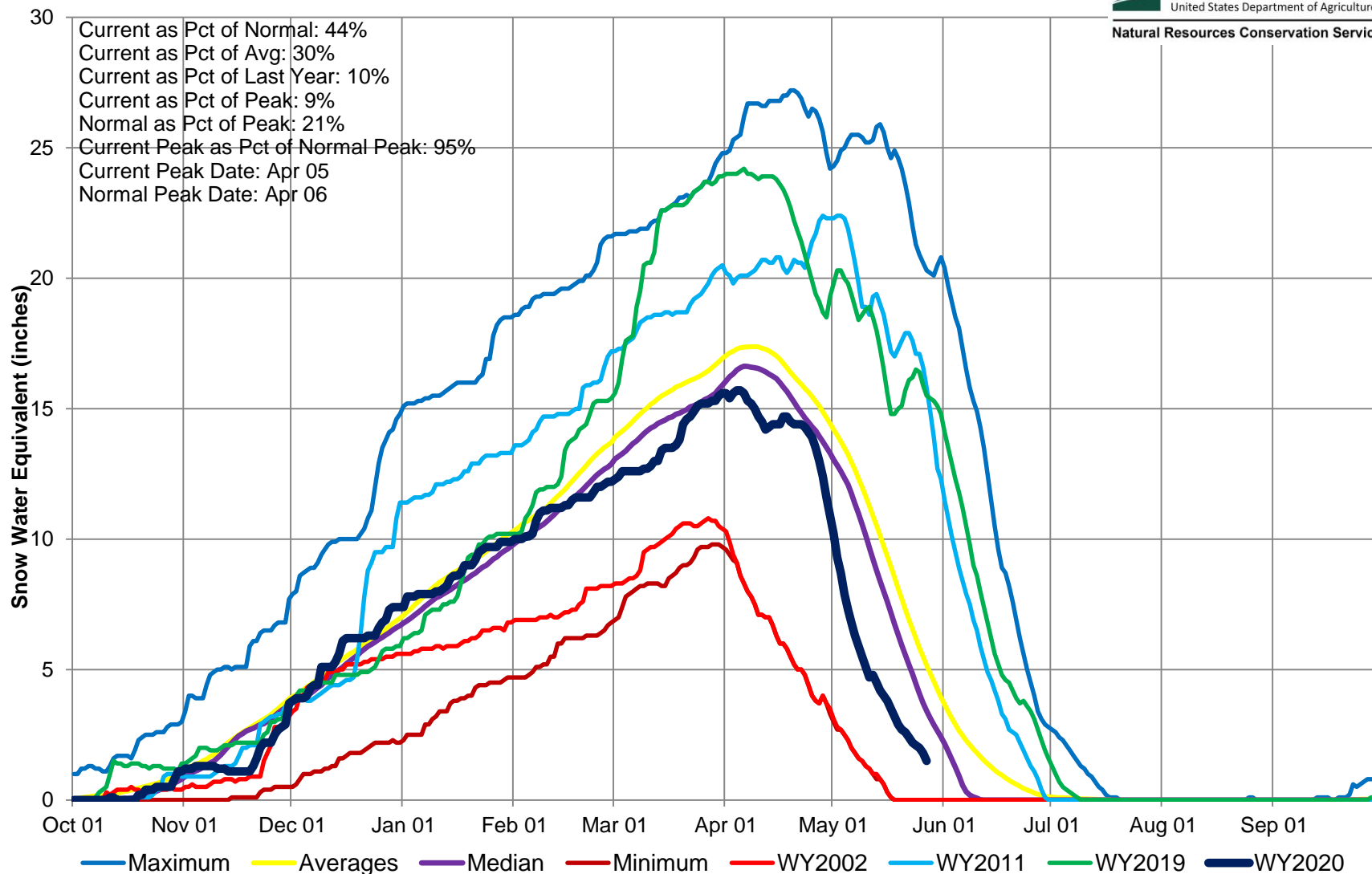
Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 27, 2020



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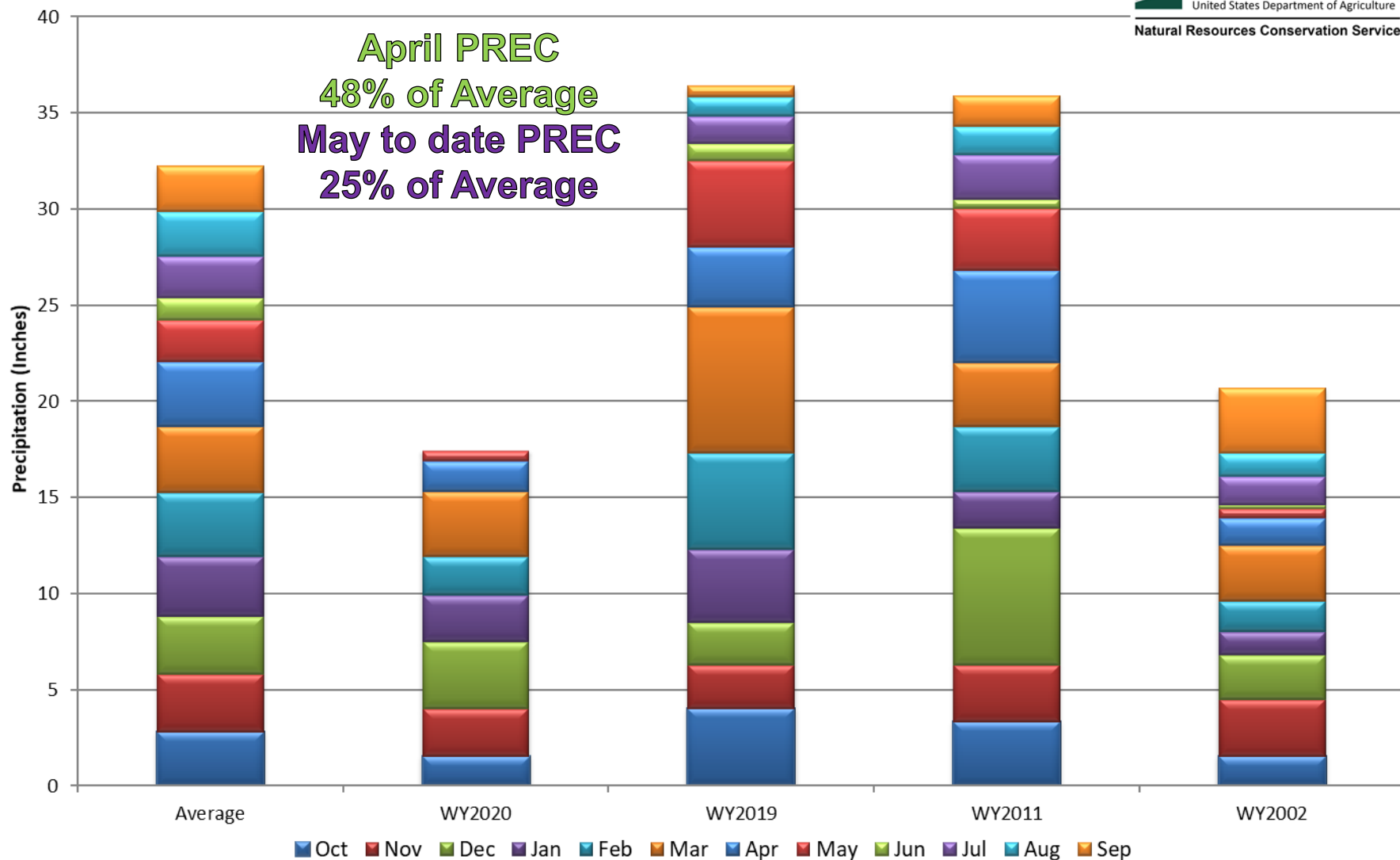
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



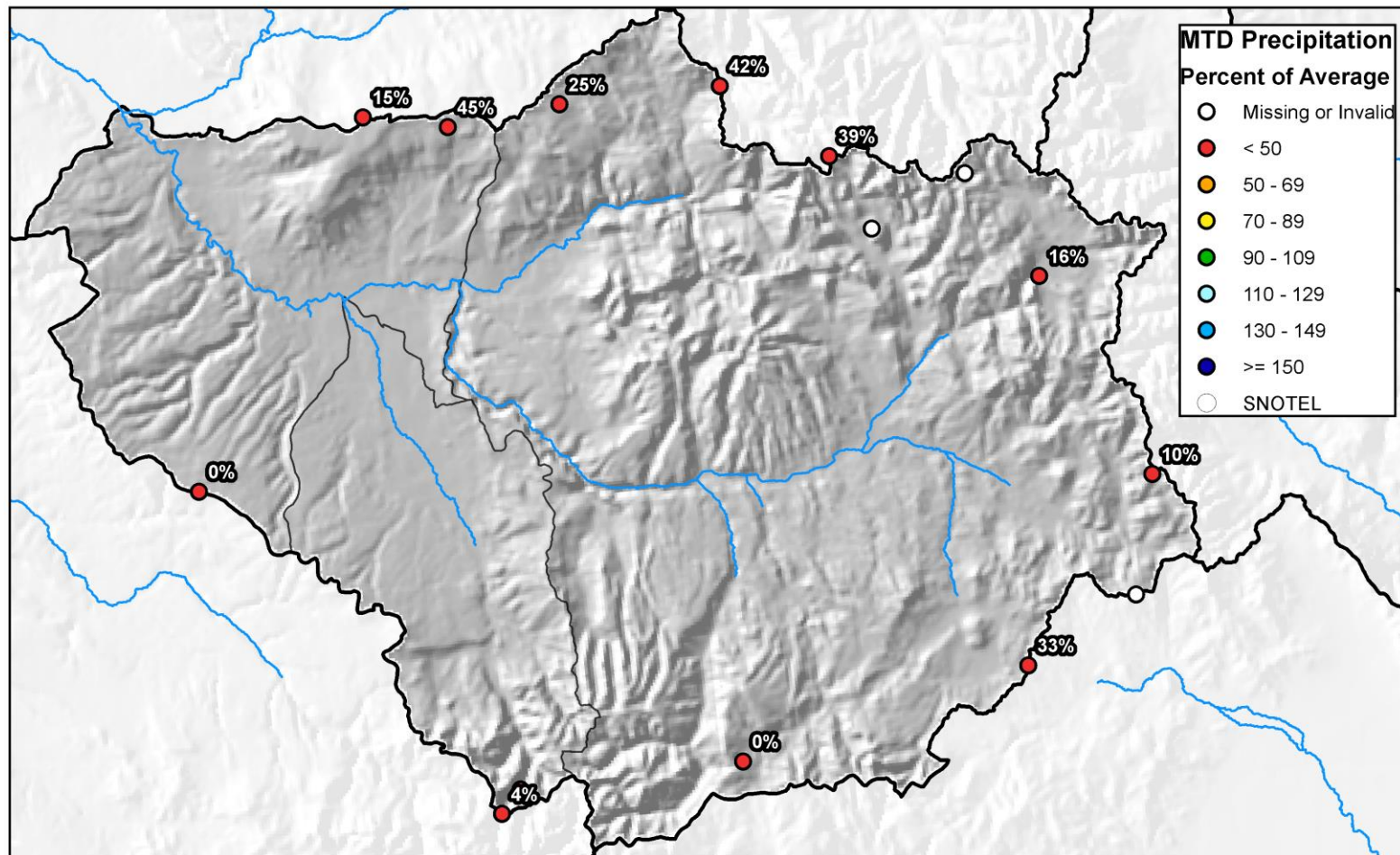
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Gunnison River Basin Month to Date Precipitation Summary

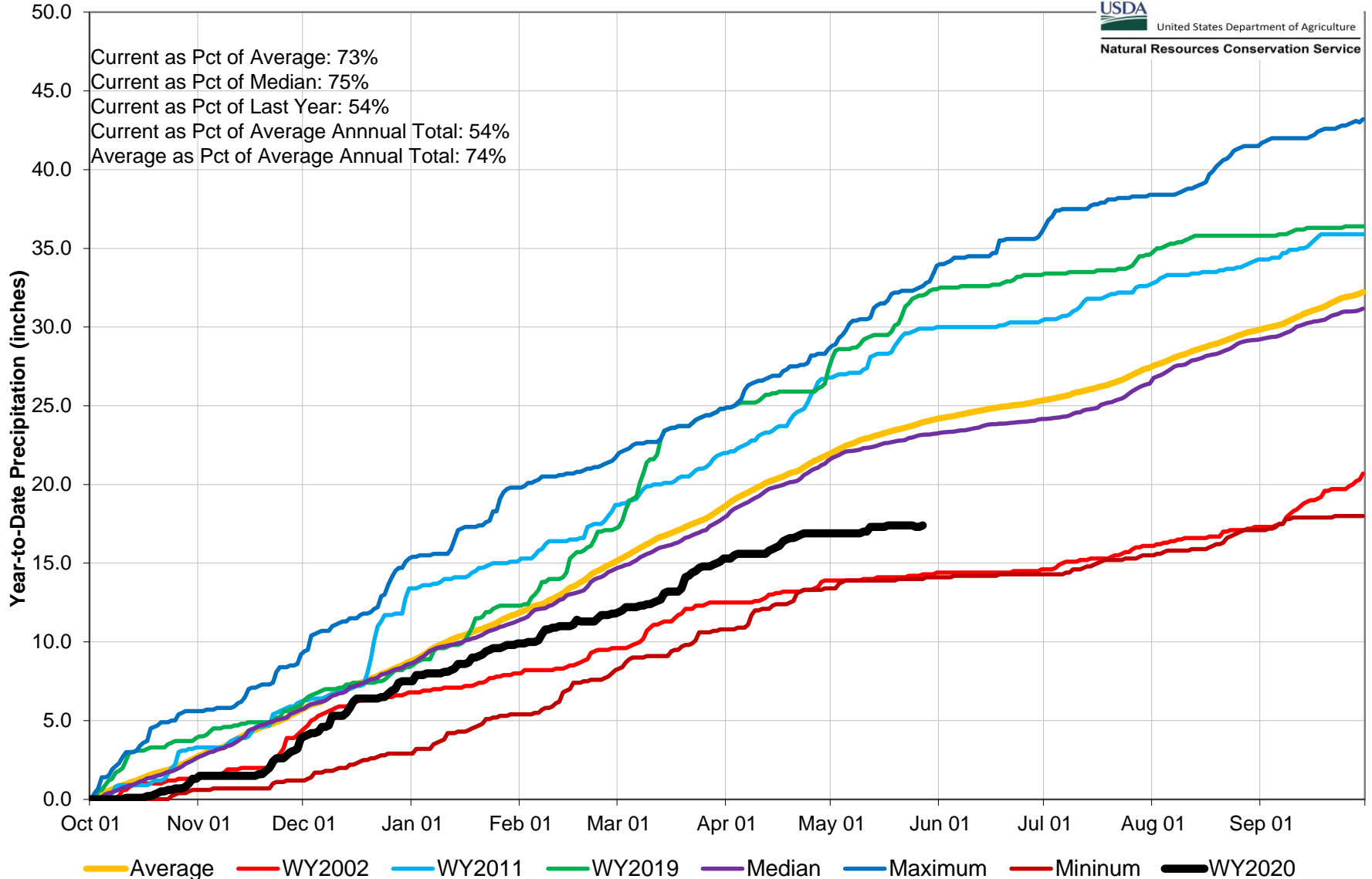
Current as of May 27, 2020



0 5 10 20 30 40 Miles

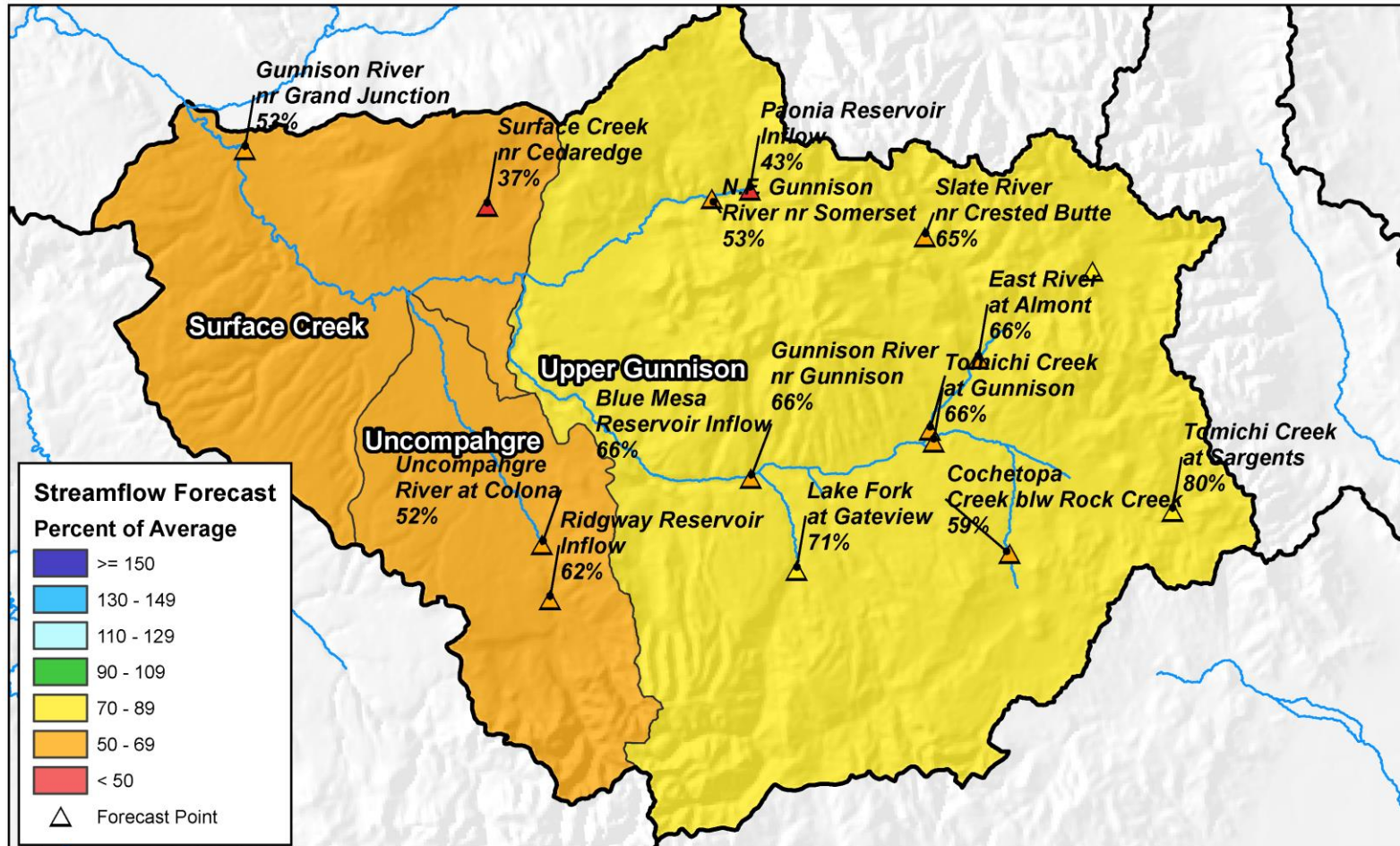
Gunnison River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



Gunnison River Basin Water Supply Forecast Summary

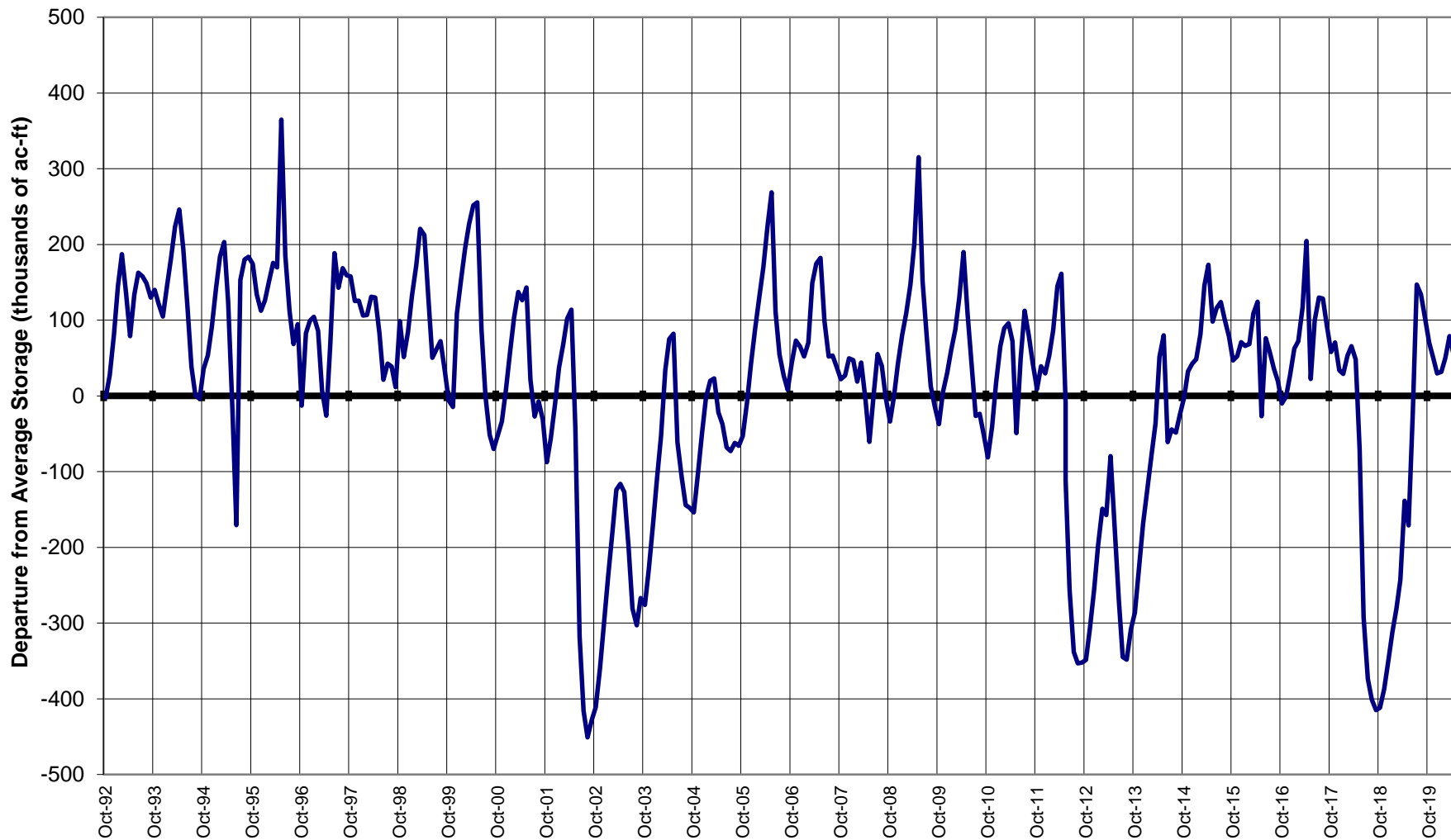
May 1, 2020



0 5 10 20 30 40 Miles

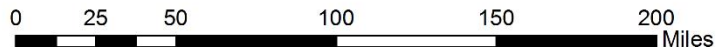
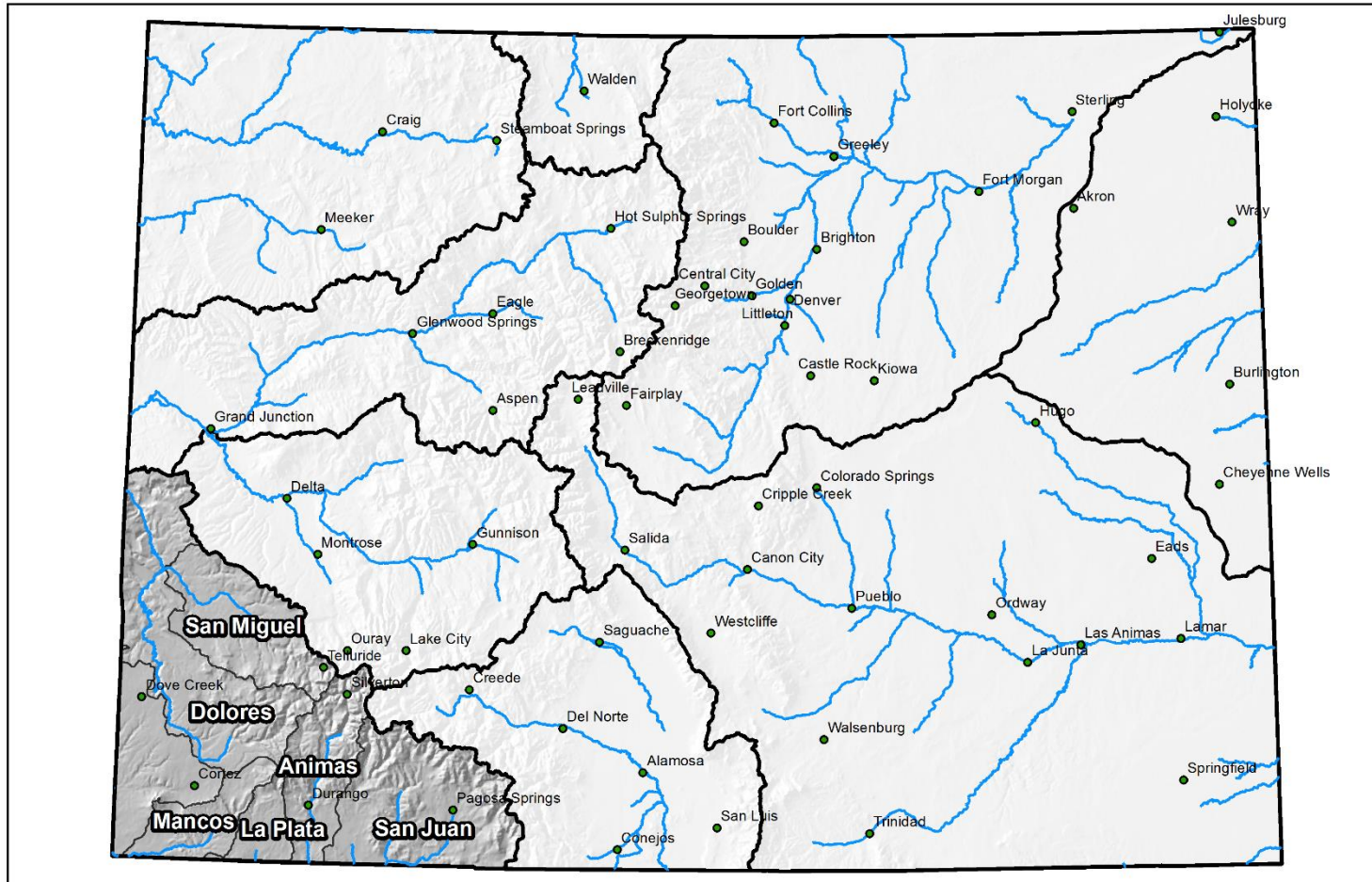


GUNNISON RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

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





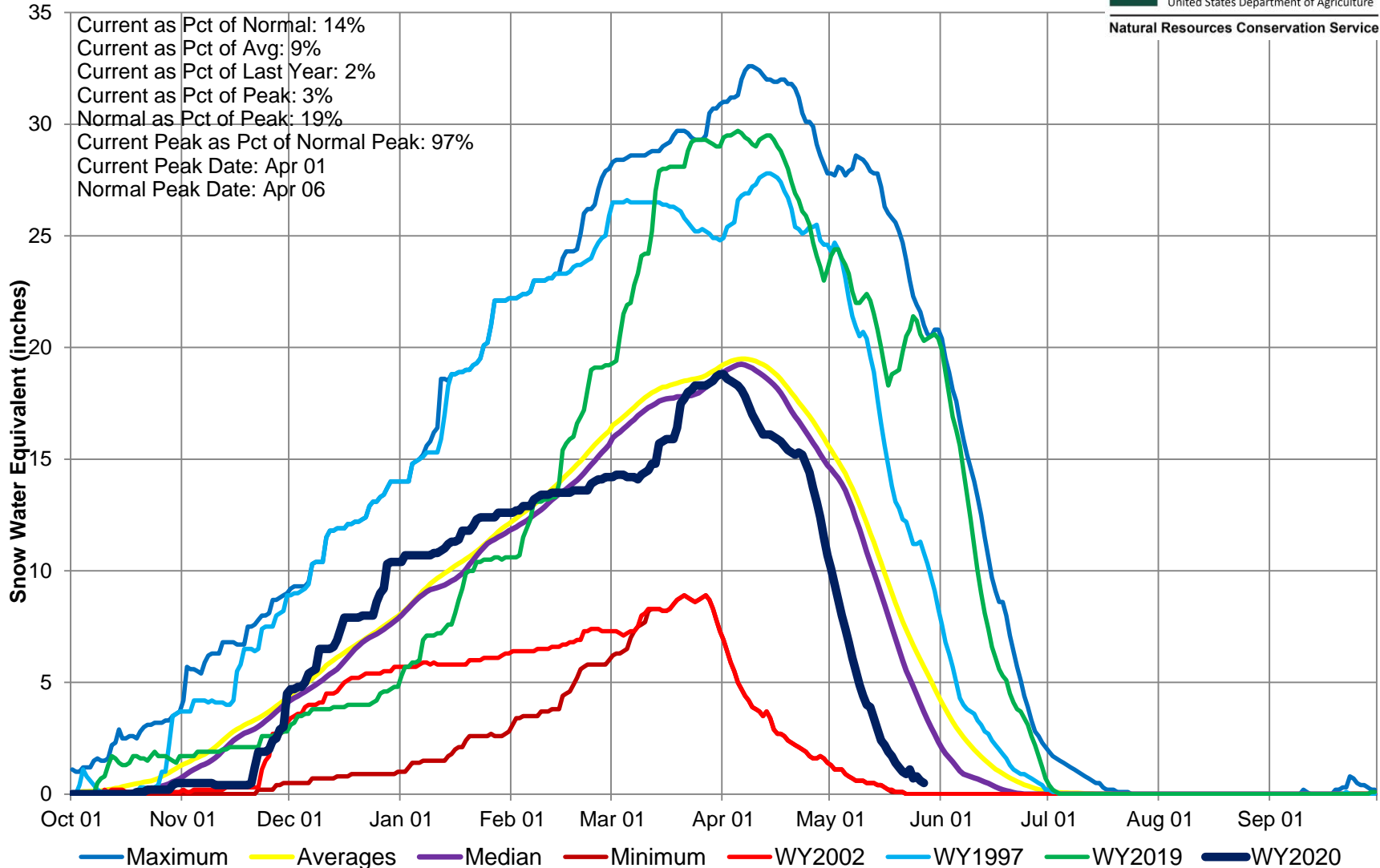
San Miguel, Dolores, Animas and San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 27, 2020



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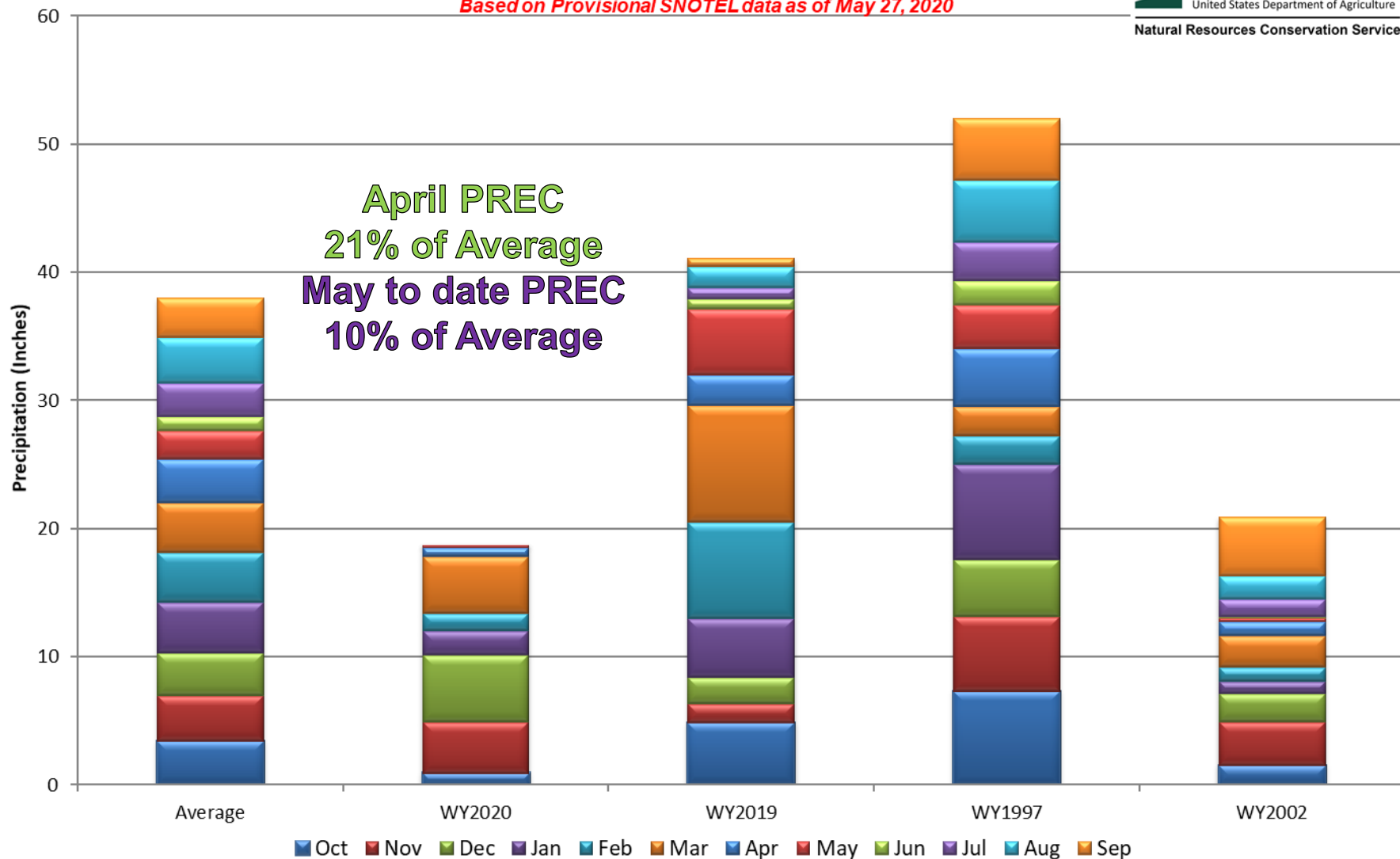
San Miguel, Dolores, Animas and San Juan River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



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Natural Resources Conservation Service

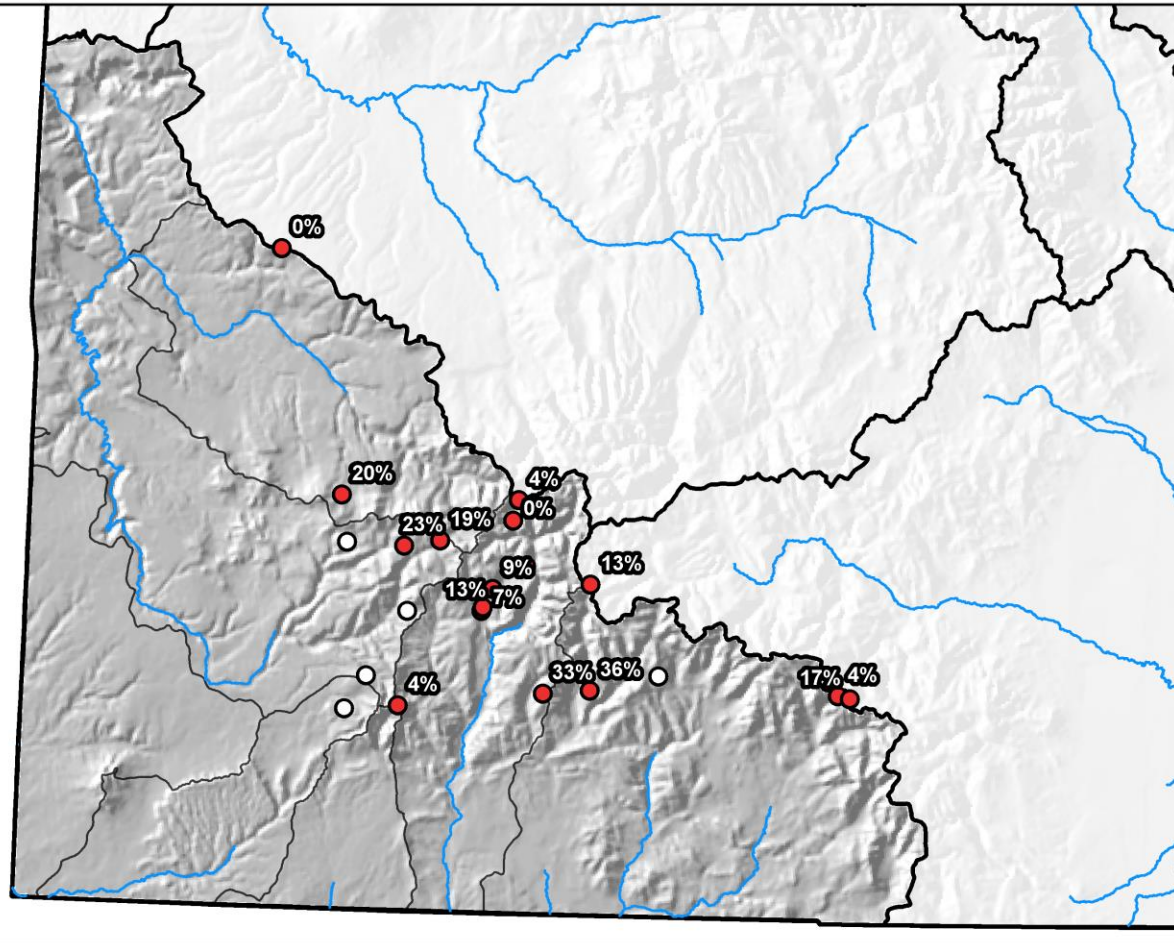


San Miguel, Dolores, Animas, and San Juan River Basins Month to Date Precipitation Summary

Current as of May 27, 2020

MTD Precipitation Percent of Average

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





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Colorado Snow Surveys

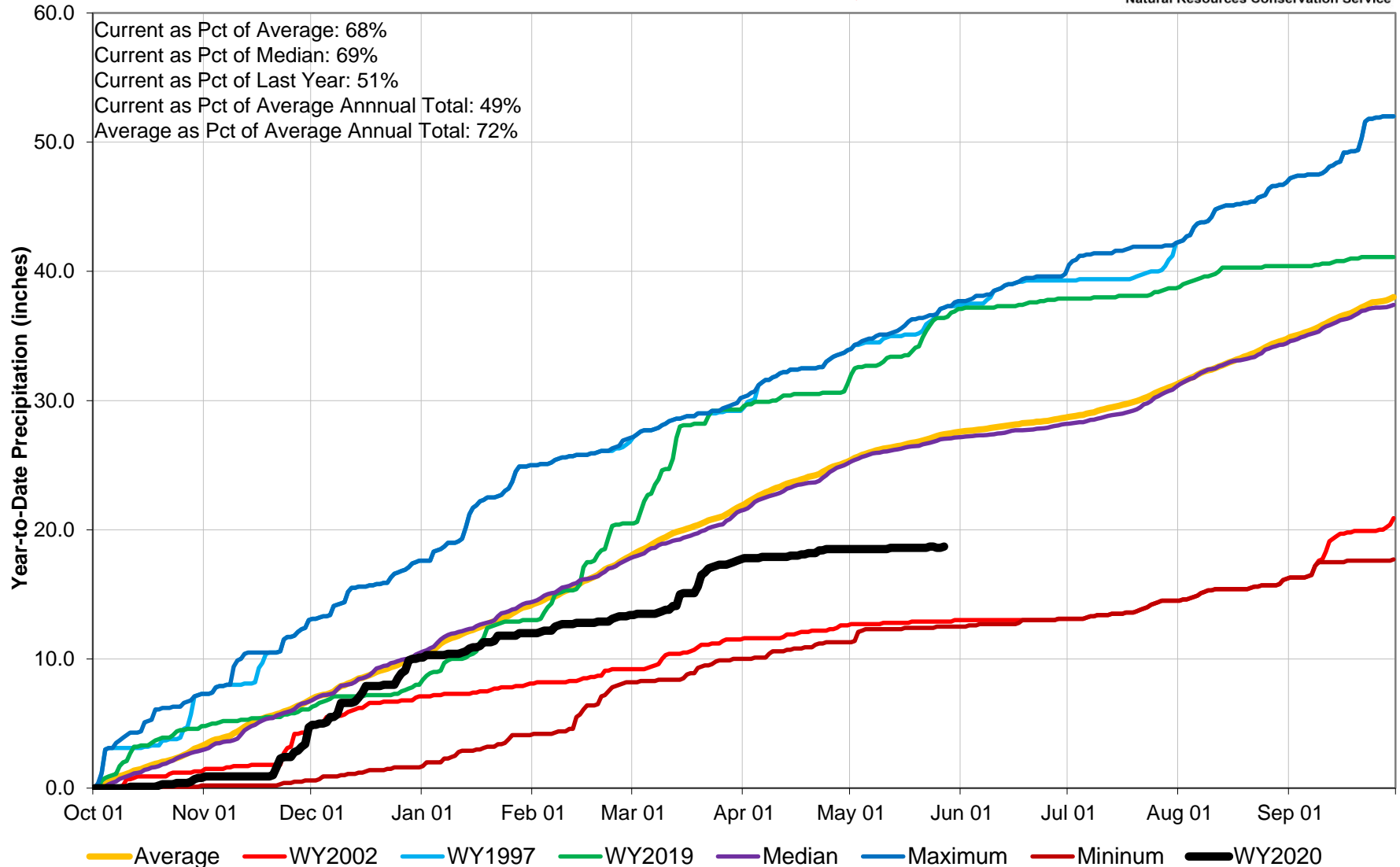
San Miguel, Dolores, Animas and San Juan River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



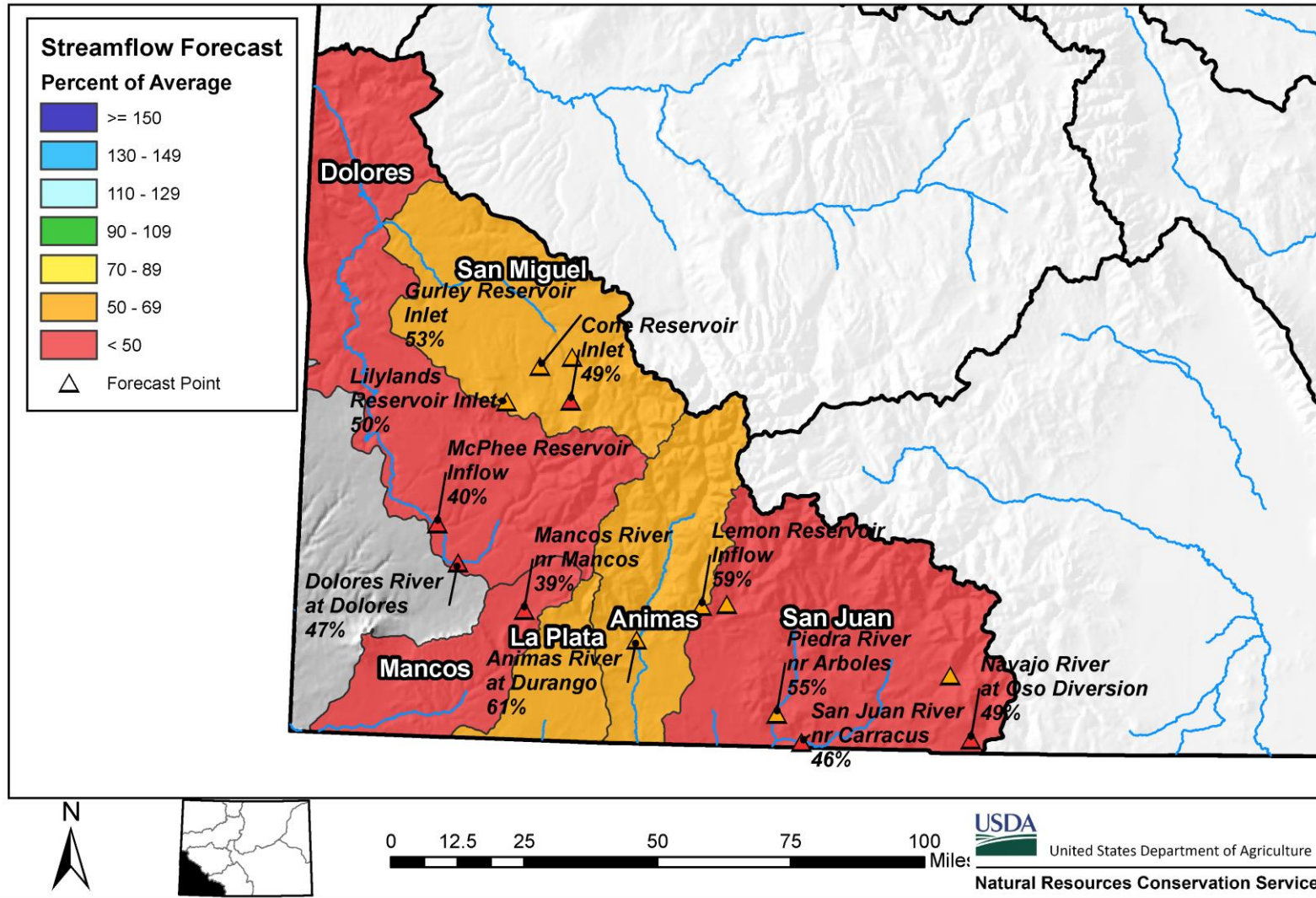
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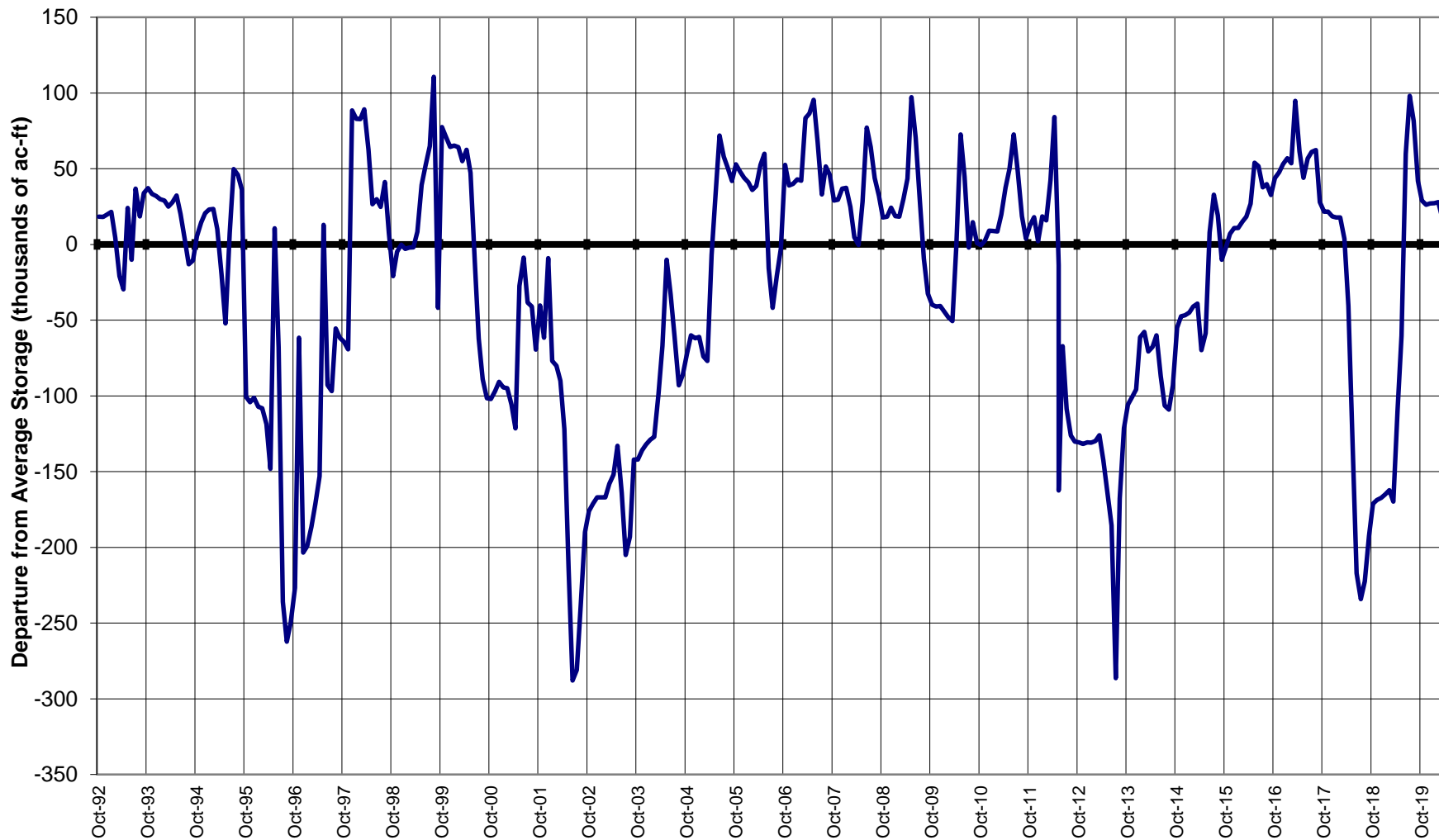
San Miguel, Dolores, Animas, and San Juan River Basins Streamflow Forecast Summary

May 1, 2020



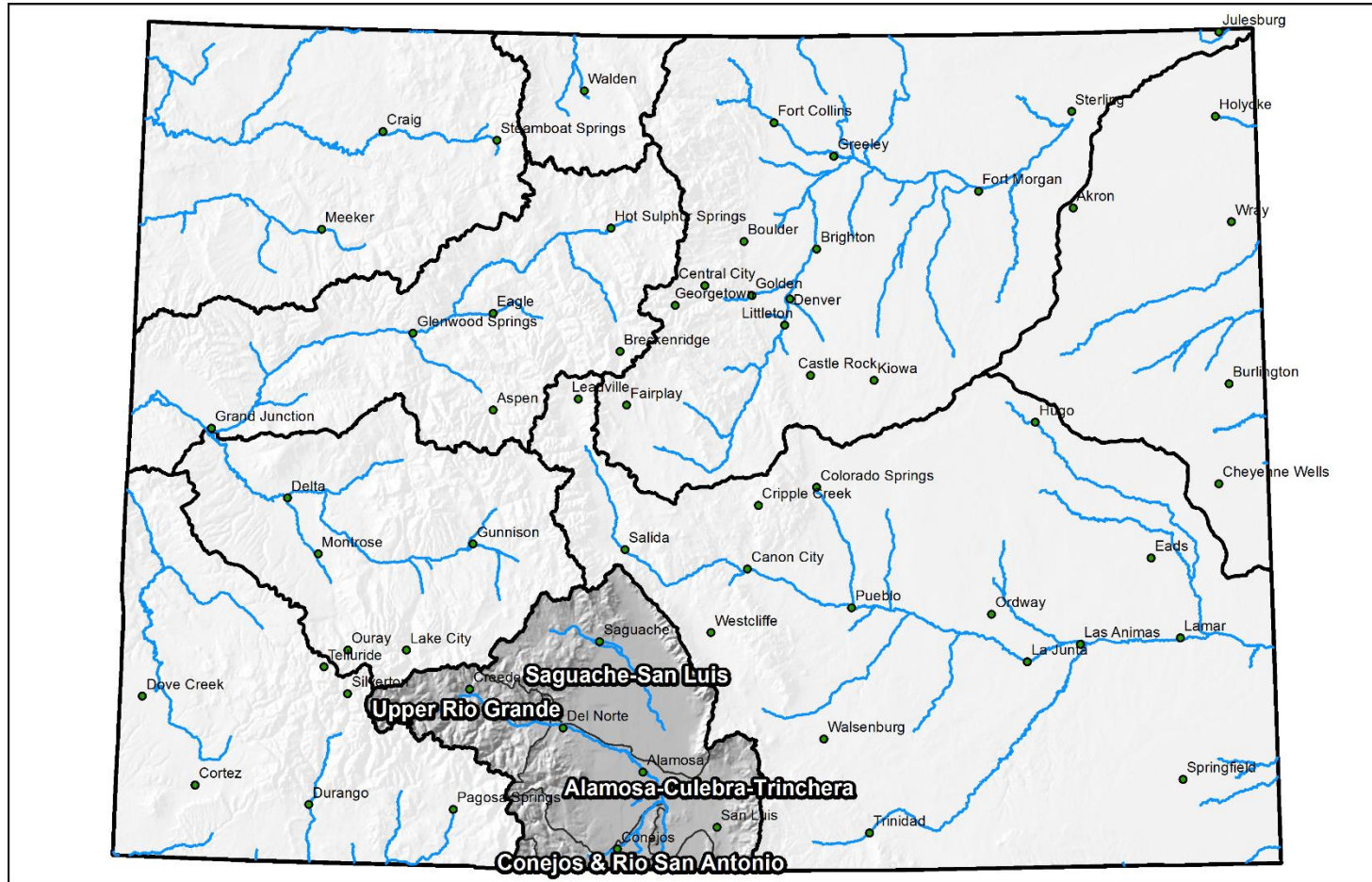
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

Reservoir Storage
Departure from Average



Major Basin Summary

Upper Rio Grande River Basin



0 25 50 100 150 200 Miles



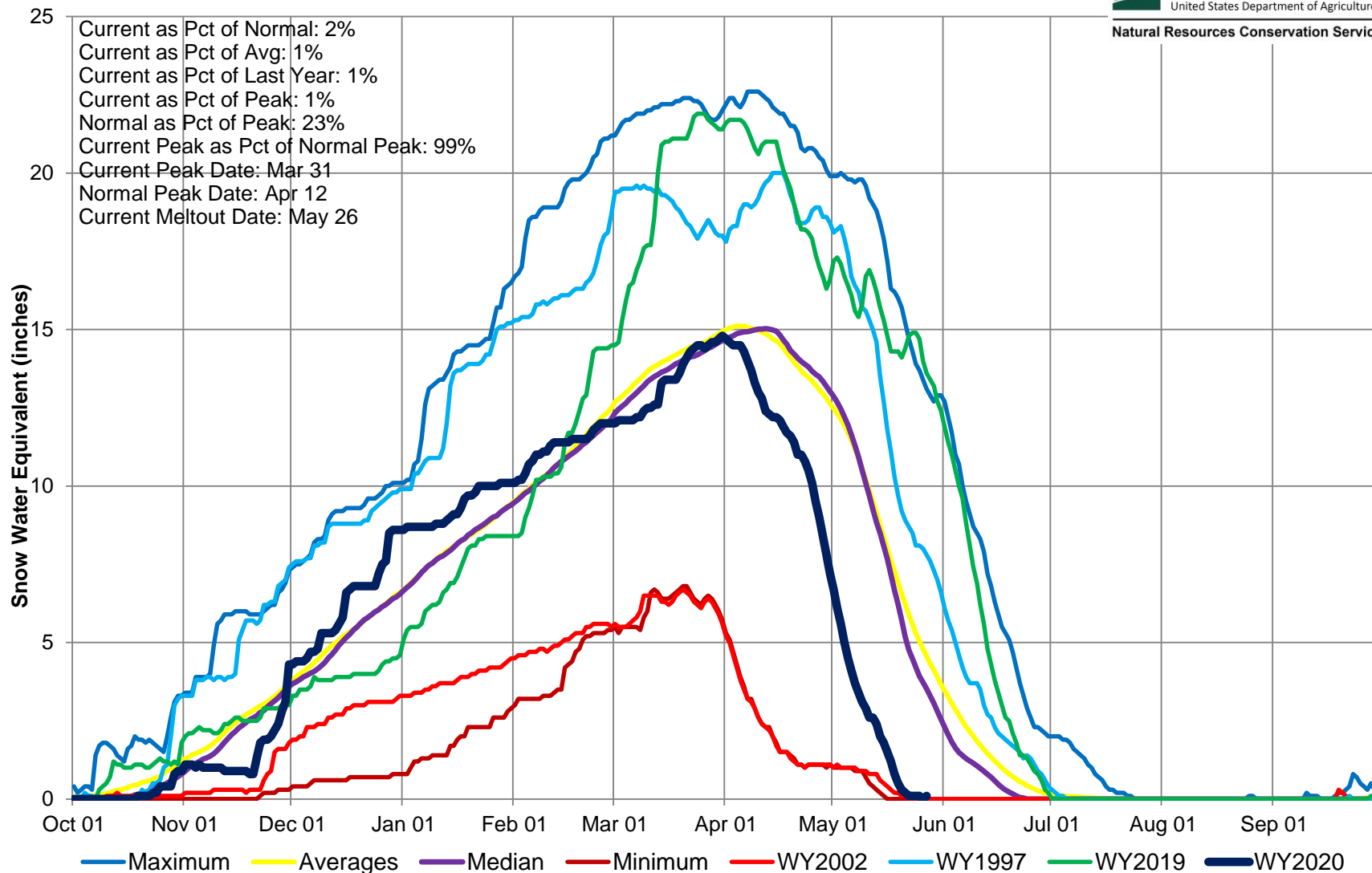
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 27, 2020



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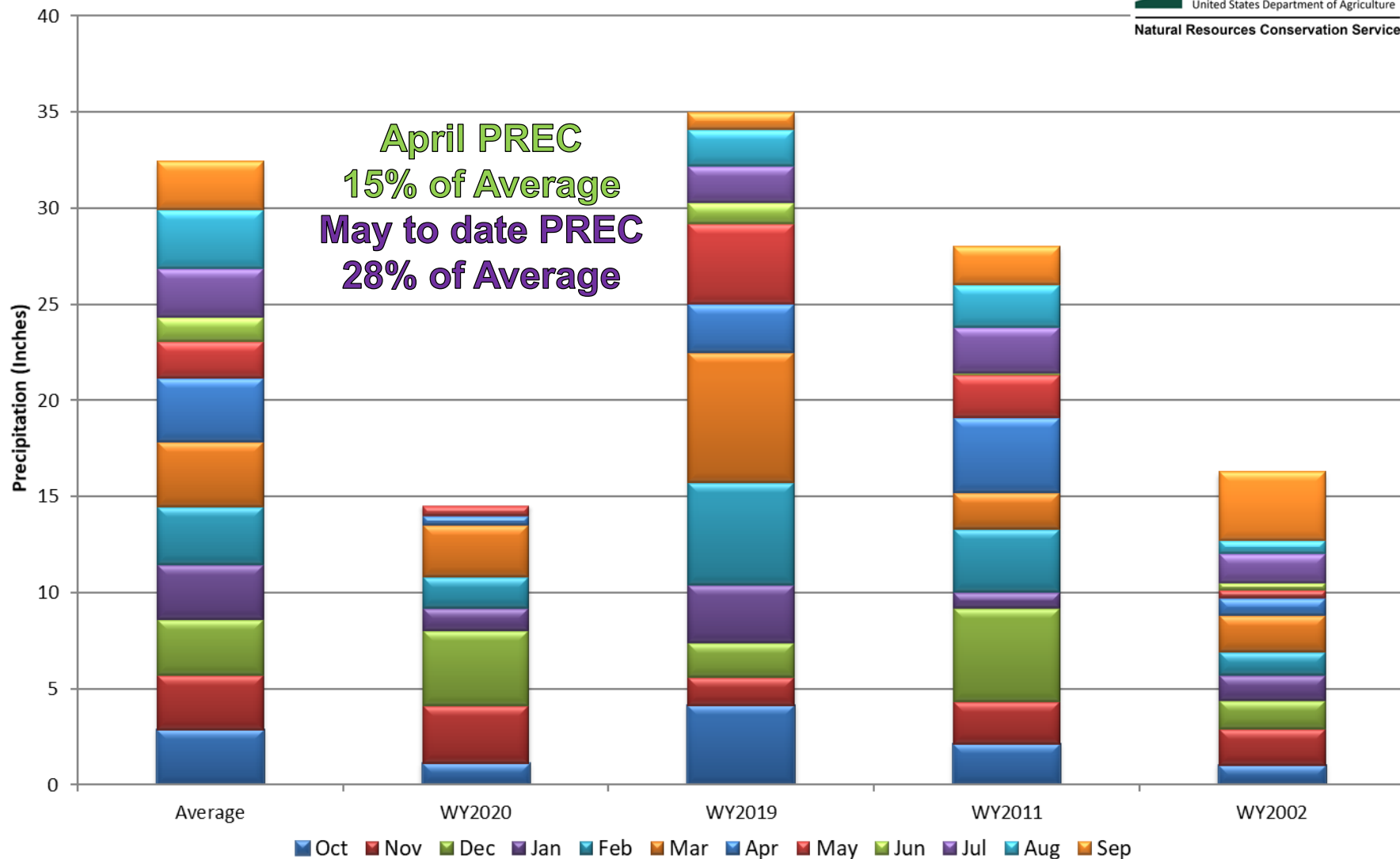
Upper Rio Grande River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



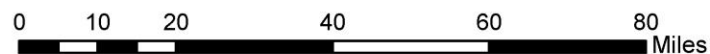
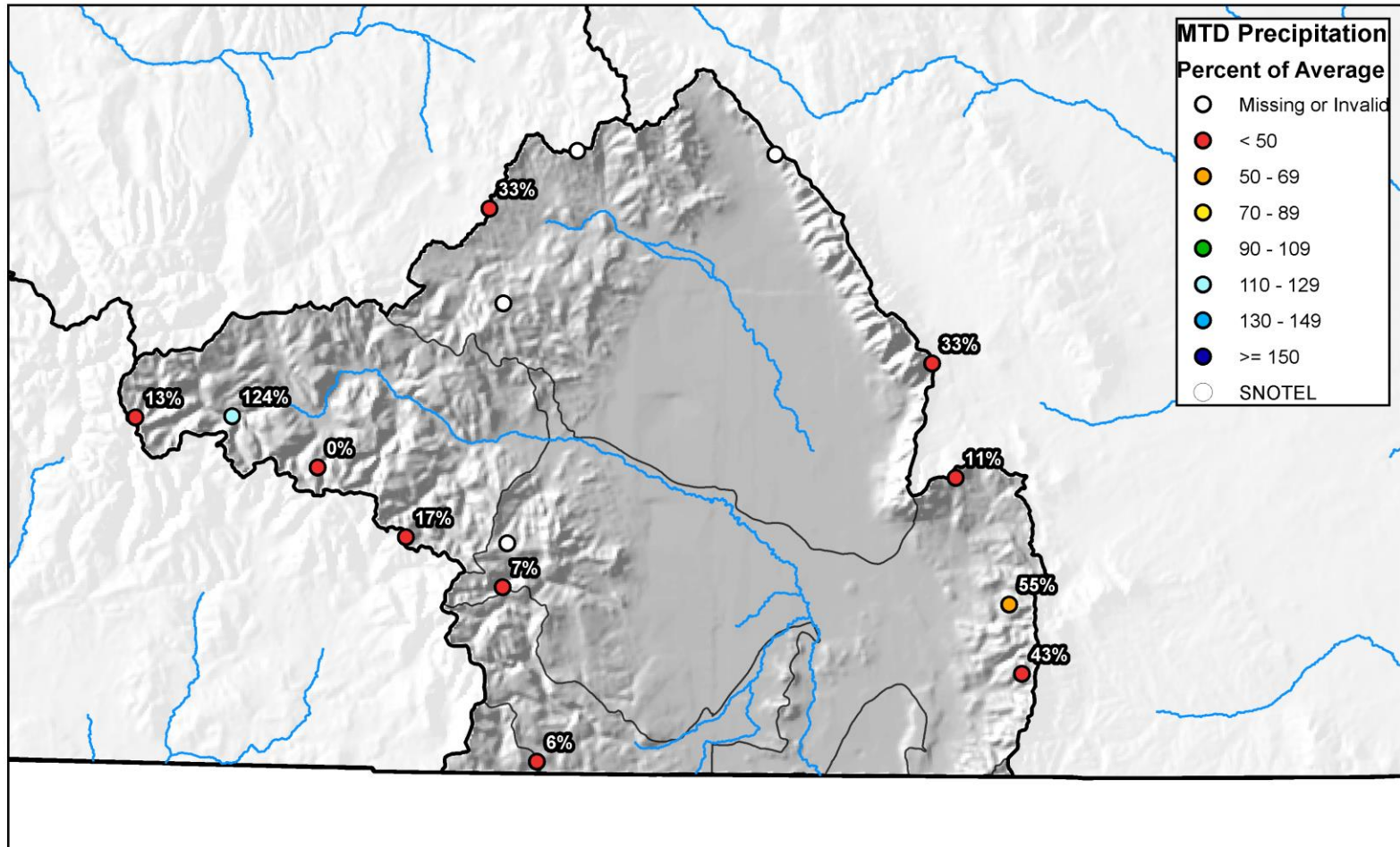
United States Department of Agriculture

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Upper Rio Grande River Basin Month to Date Precipitation Summary

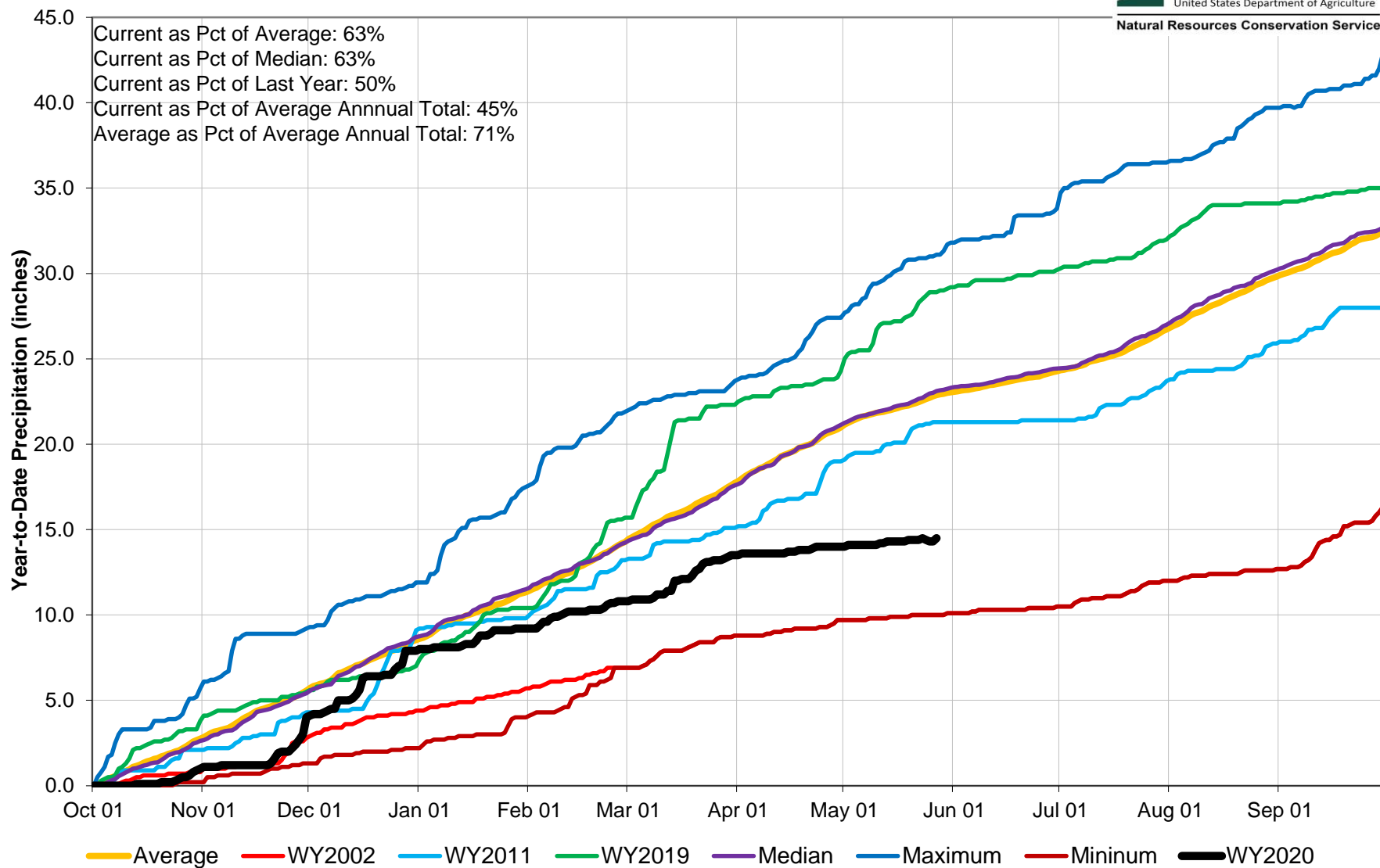
Current as of May 27, 2020





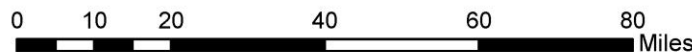
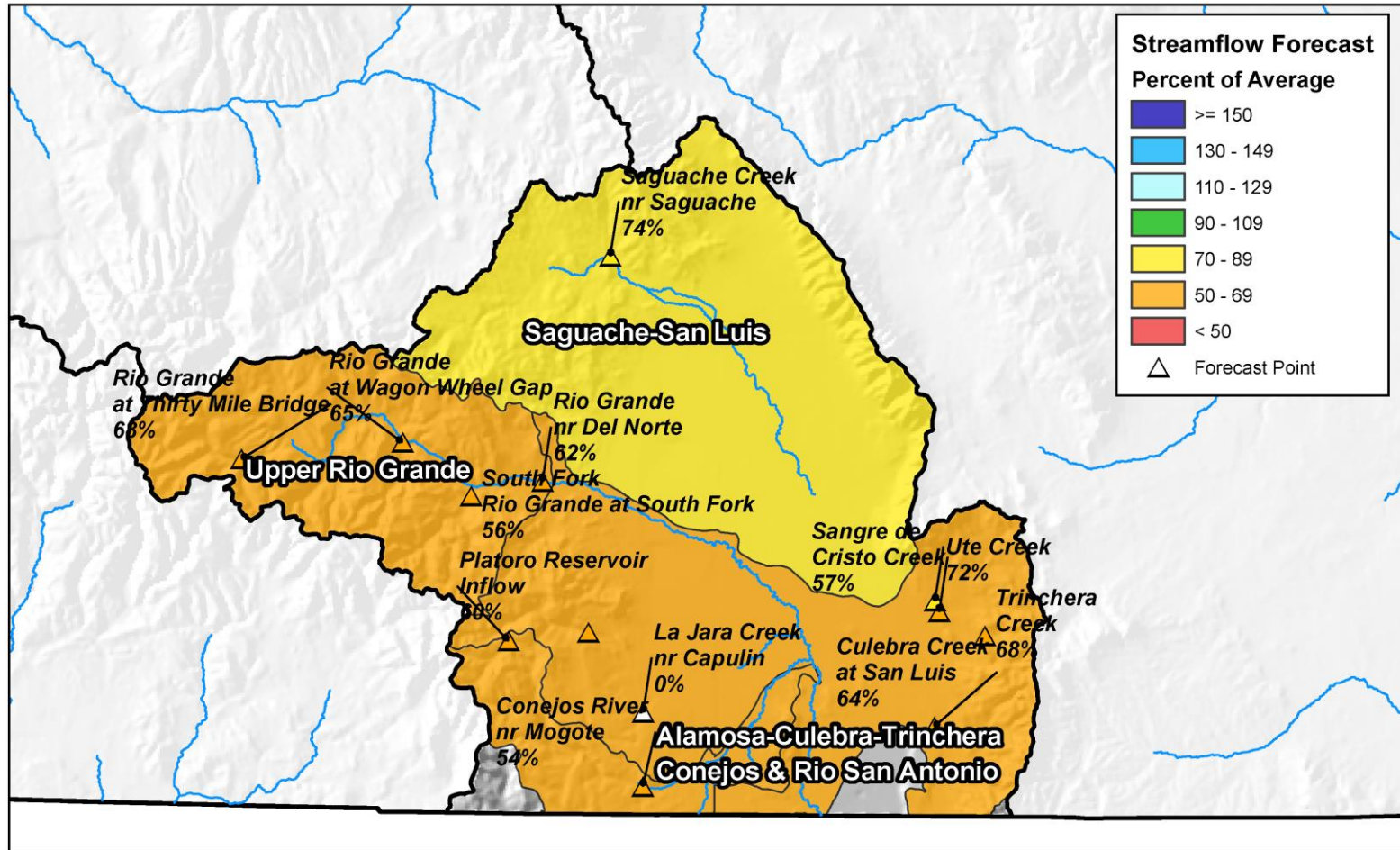
Upper Rio Grande River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020

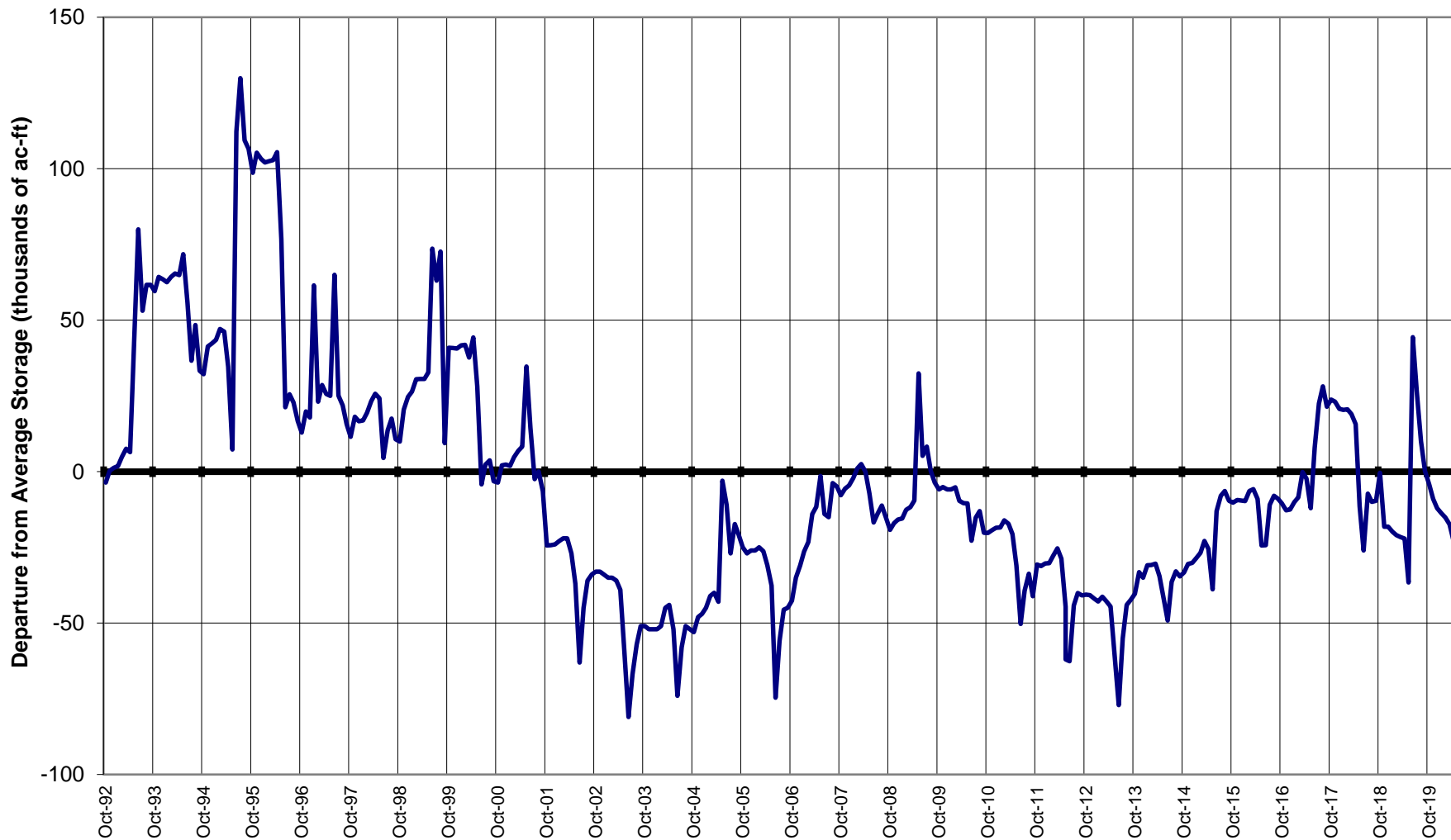


Upper Rio Grande River Basin Streamflow Forecast Summary

May 1, 2020

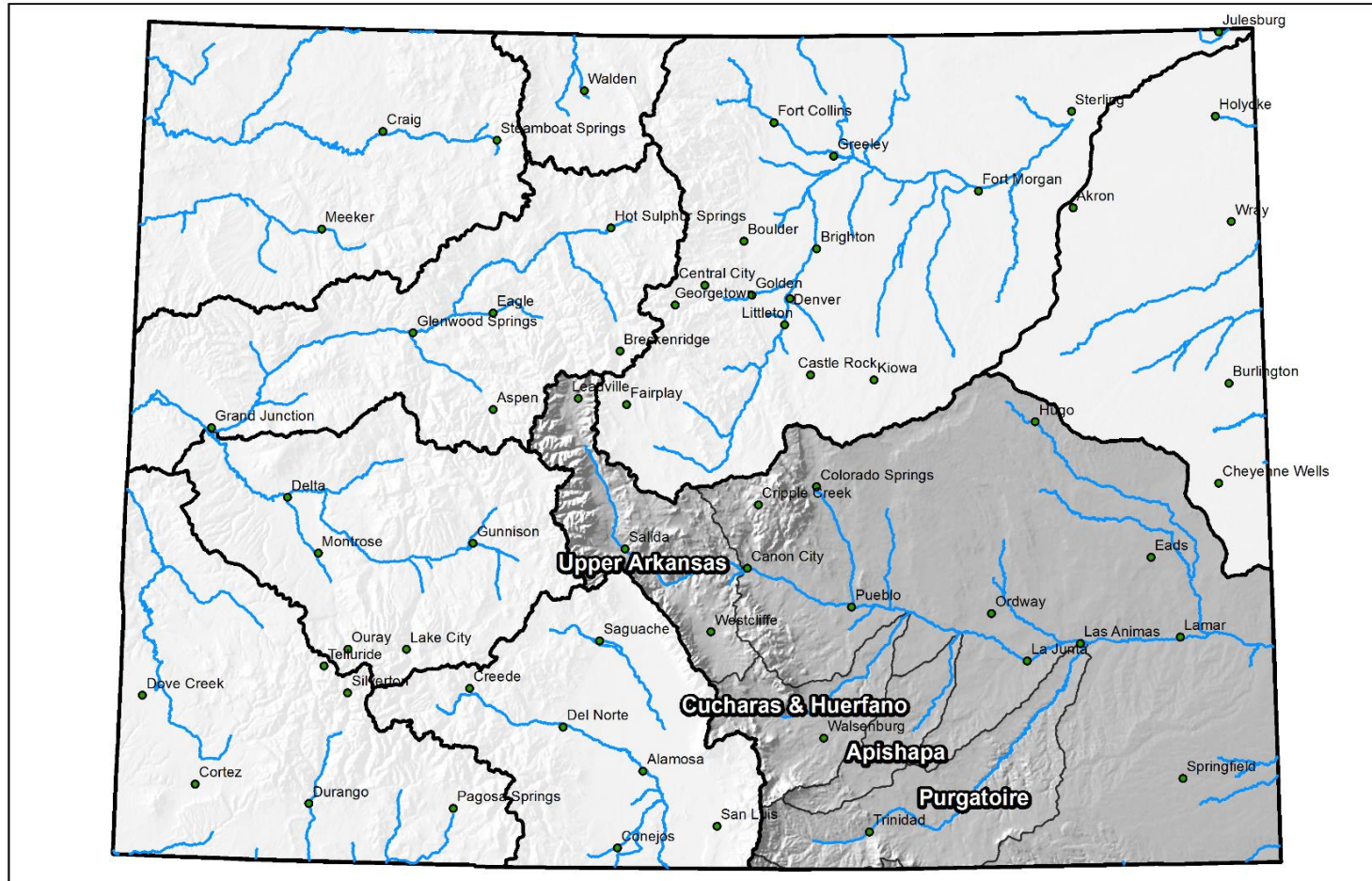


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



Major Basin Summary

Arkansas River Basin



0 25 50 100 150 200 Miles



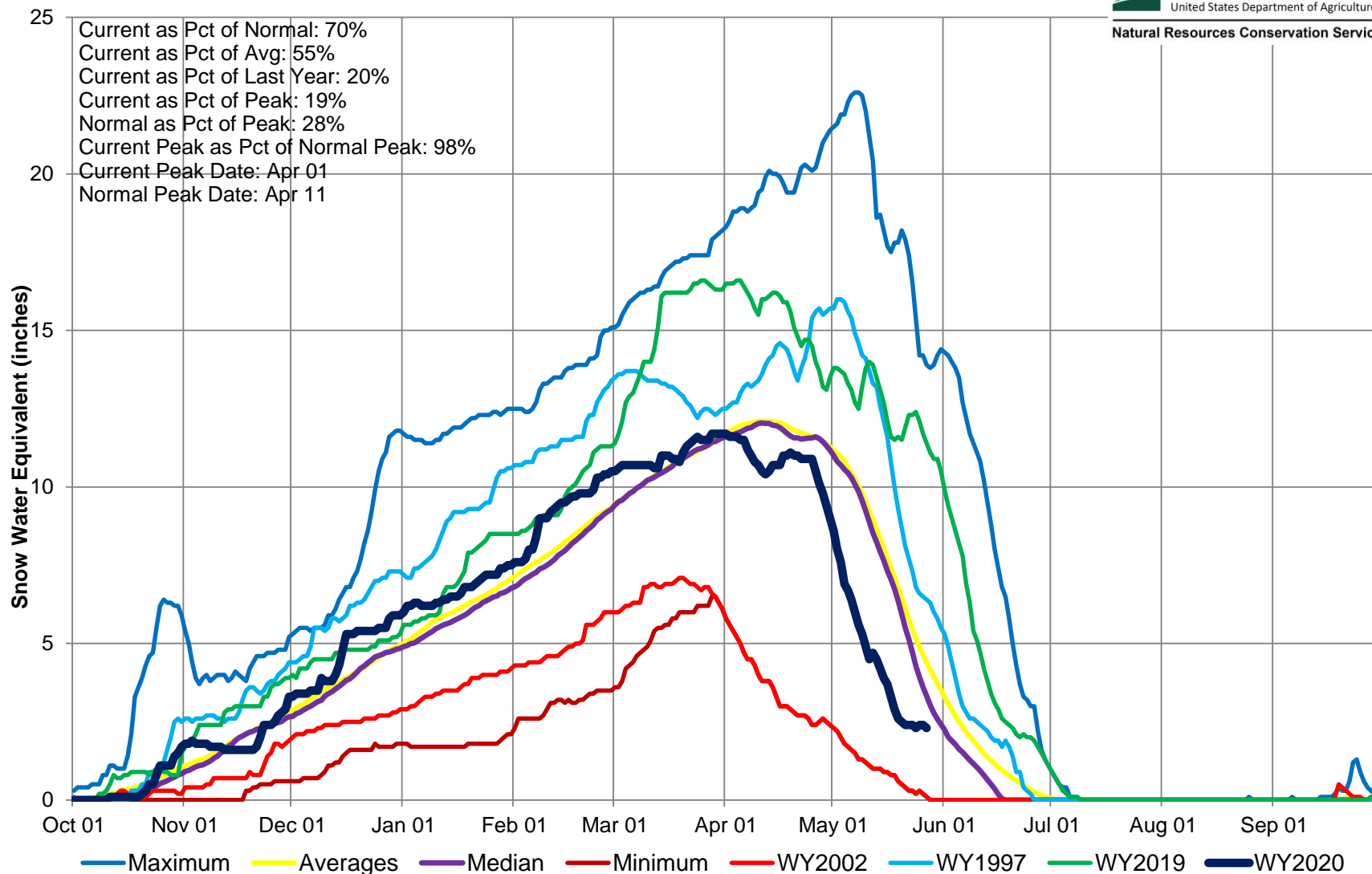
Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 27, 2020



United States Department of Agriculture

Natural Resources Conservation Service



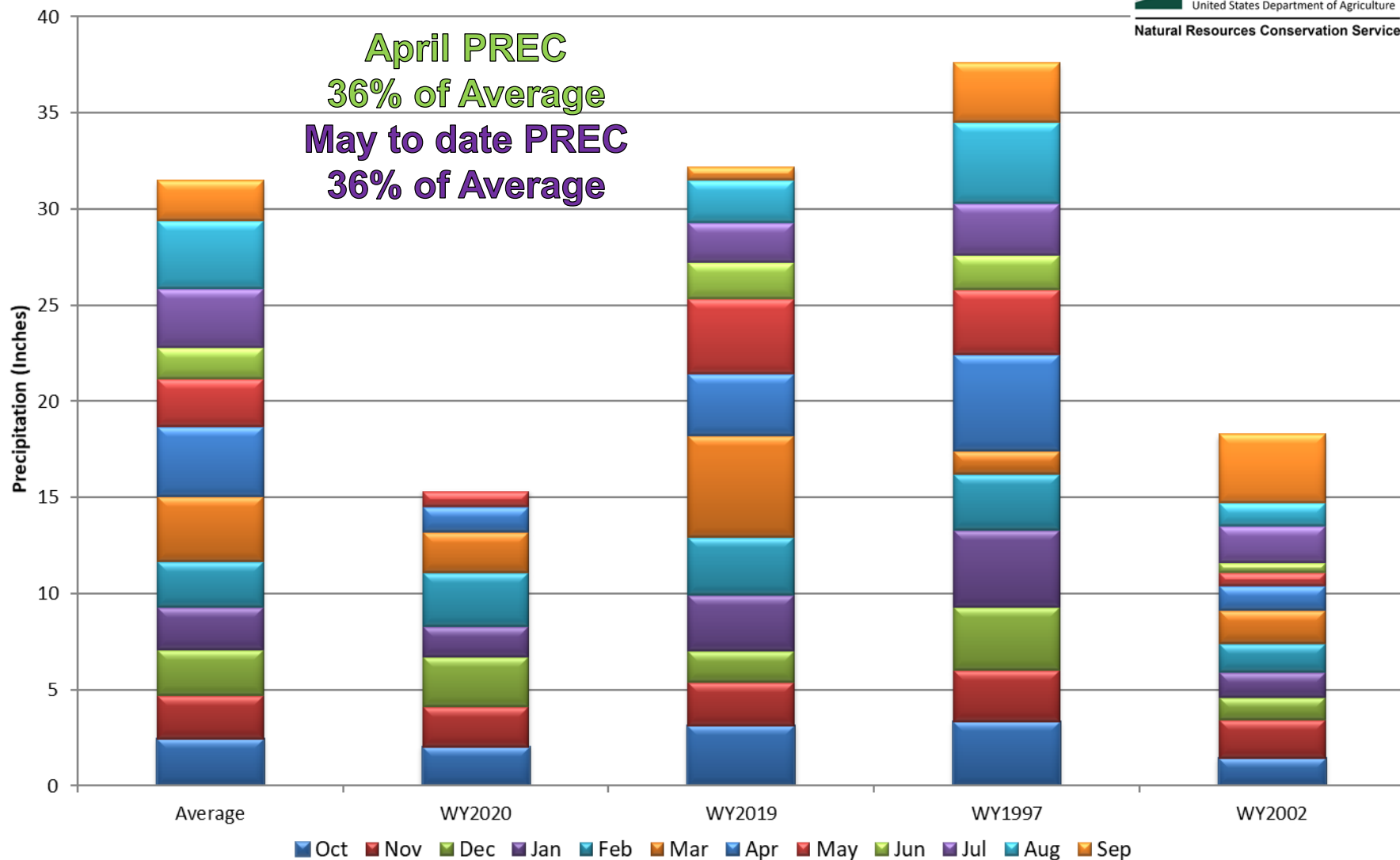
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



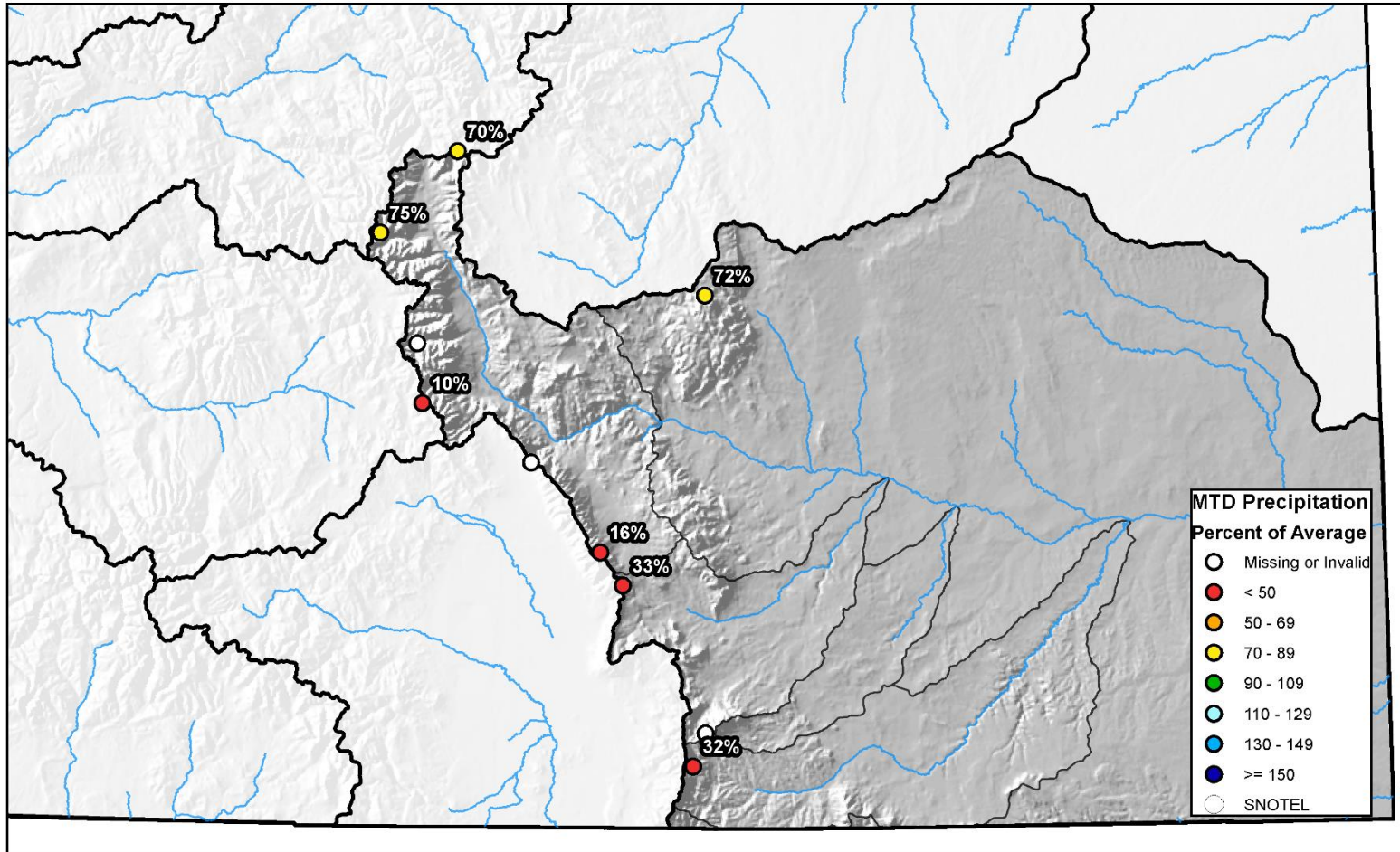
United States Department of Agriculture

Natural Resources Conservation Service



Arkansas River Basin Month to Date Precipitation Summary

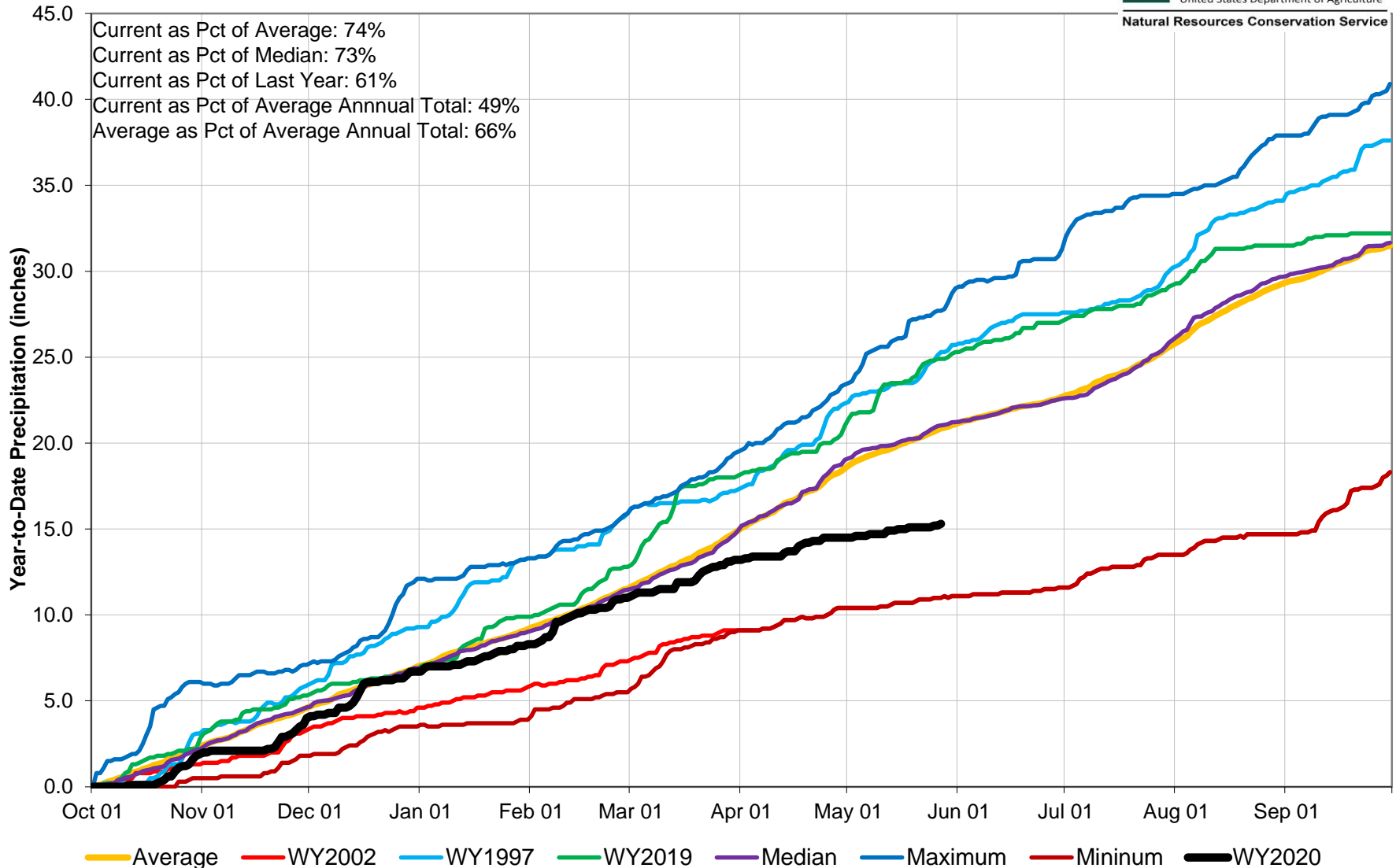
Current as of May 27, 2020



0 10 20 40 60 80 Miles

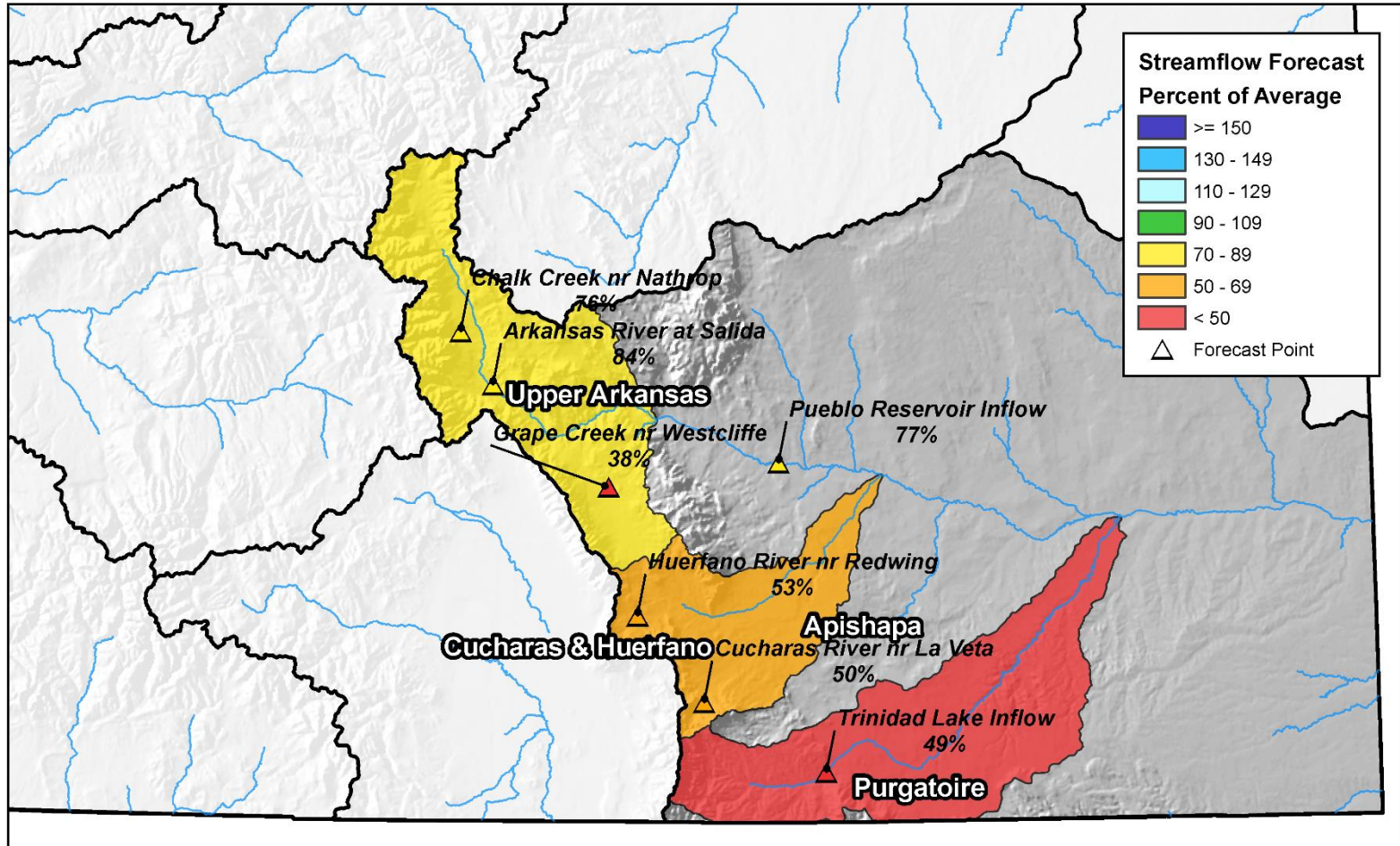
Arkansas River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



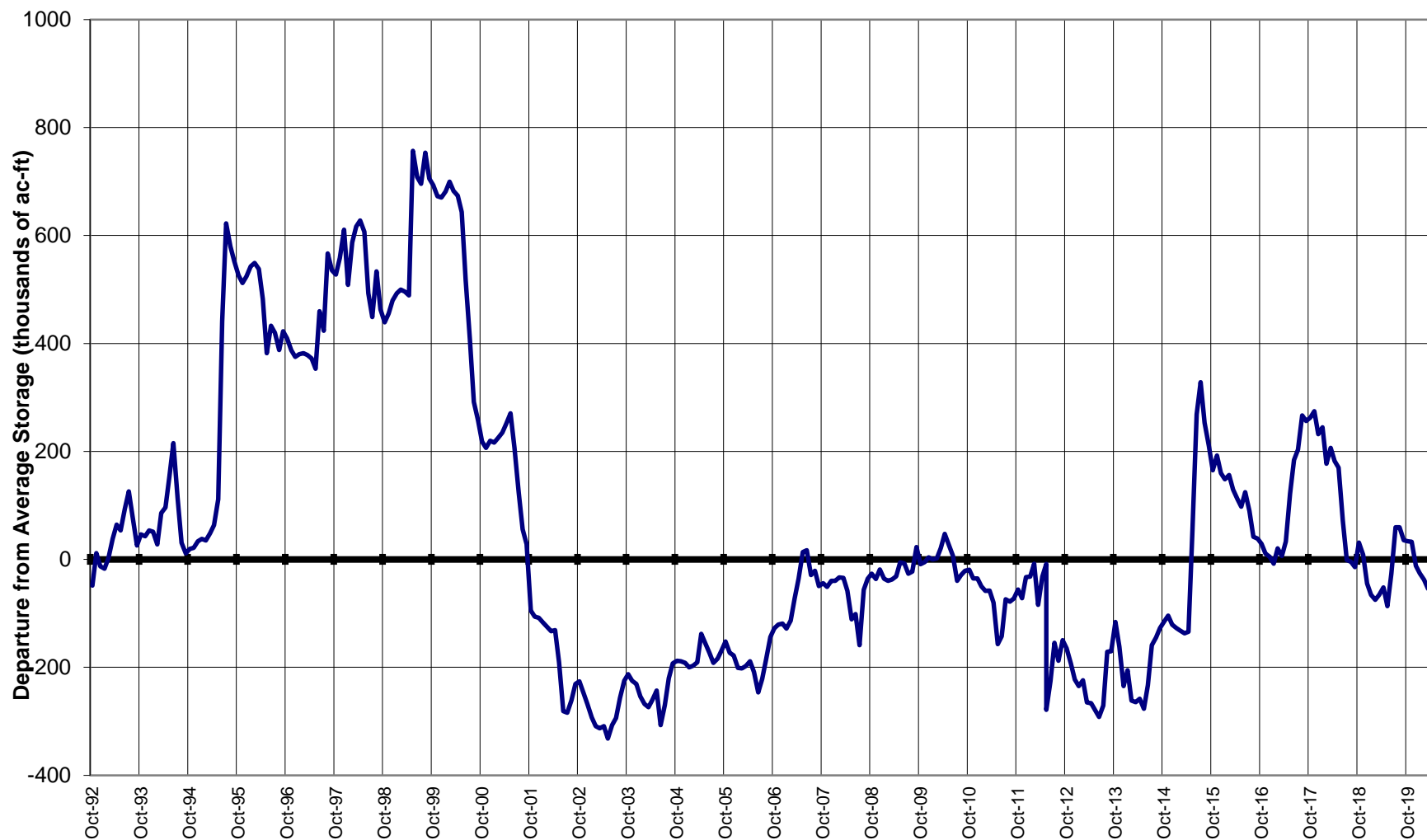
Arkansas River Basin Streamflow Forecast Summary

May 1, 2020



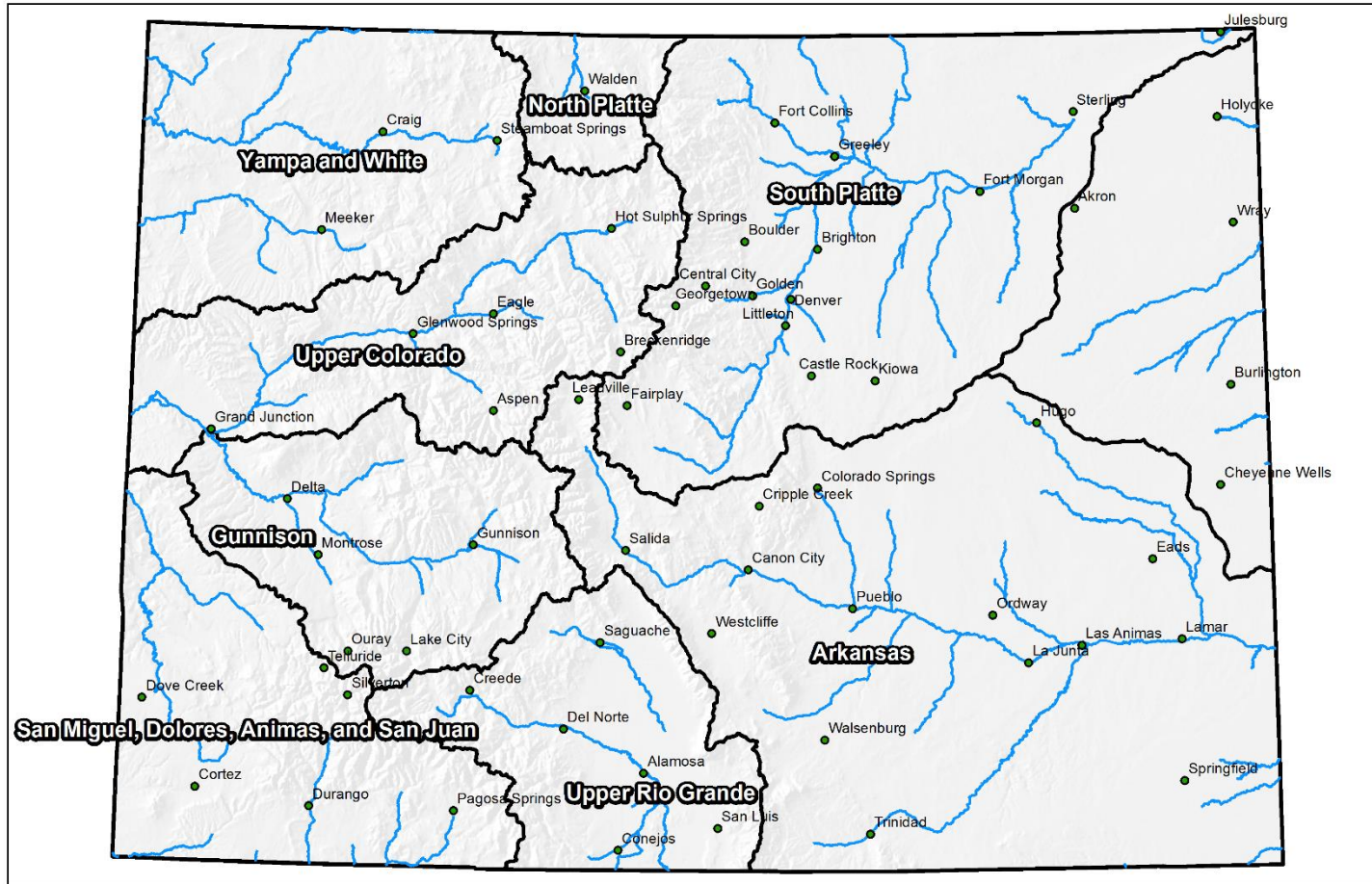
0 10 20 40 60 80 Miles

ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



Colorado Statewide Summary

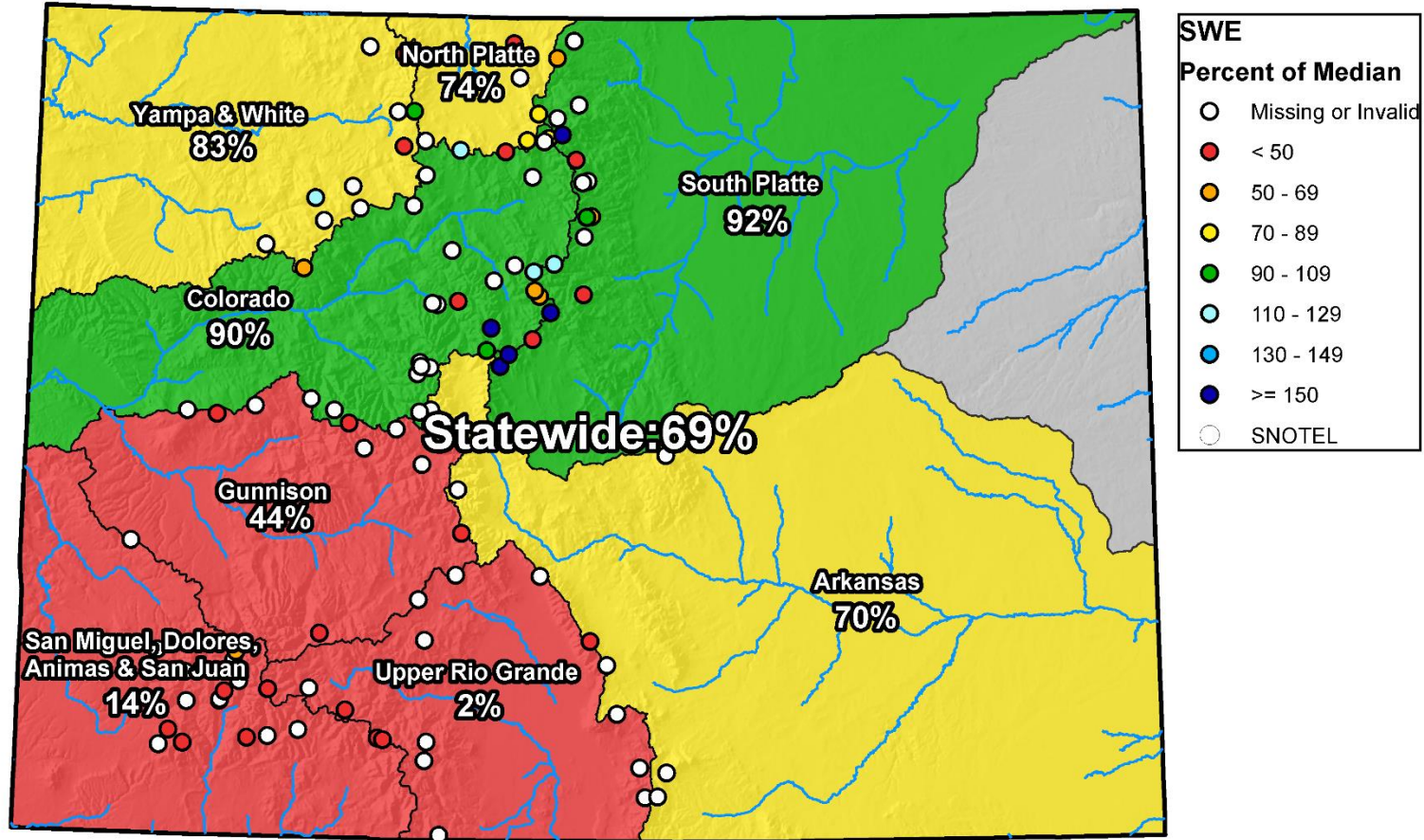
Colorado Major Basins



0 25 50 100 150 200 Miles

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

Current as of May 27, 2020

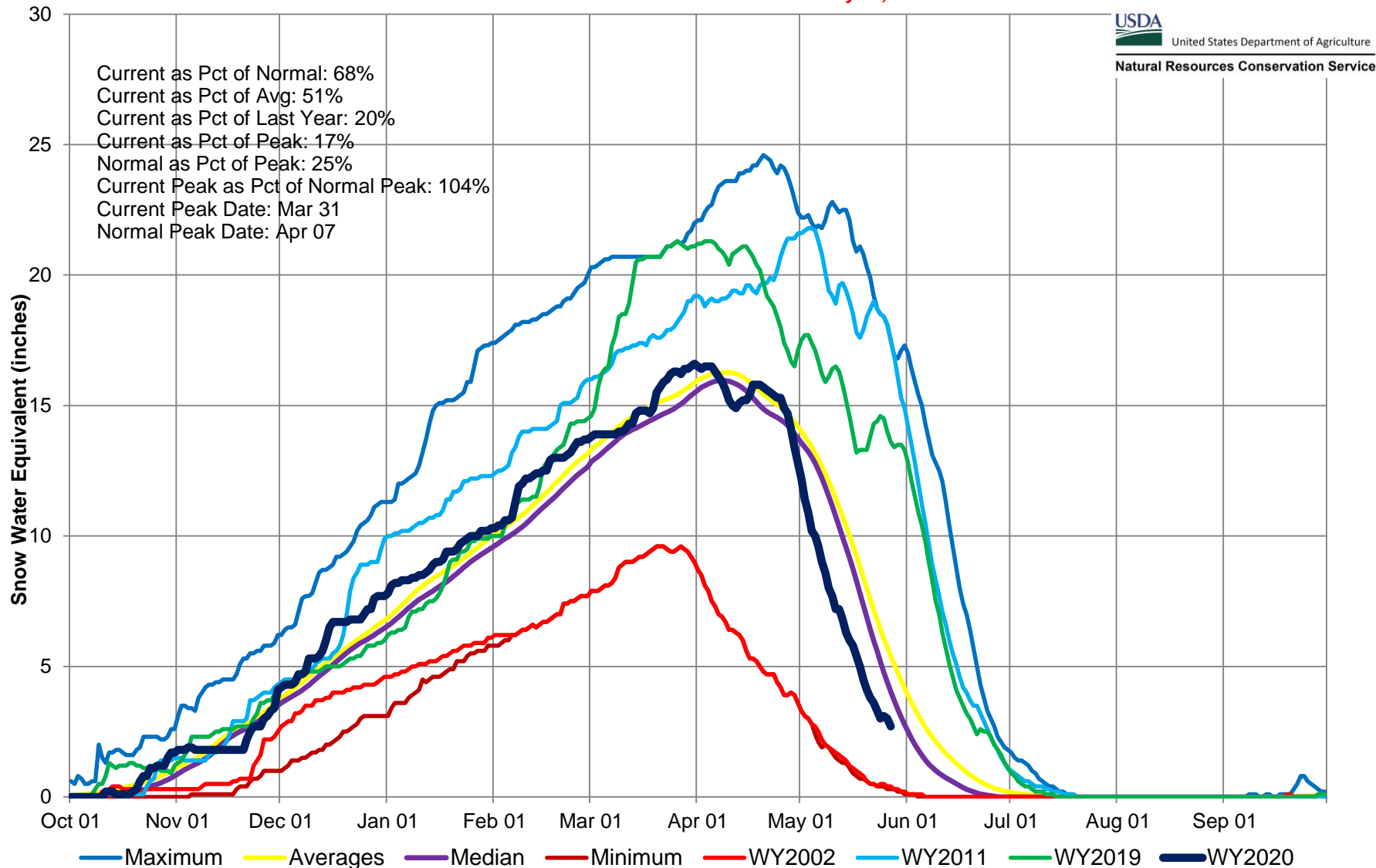


0 25 50 100 150 200 Miles



Colorado Statewide High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 27, 2020



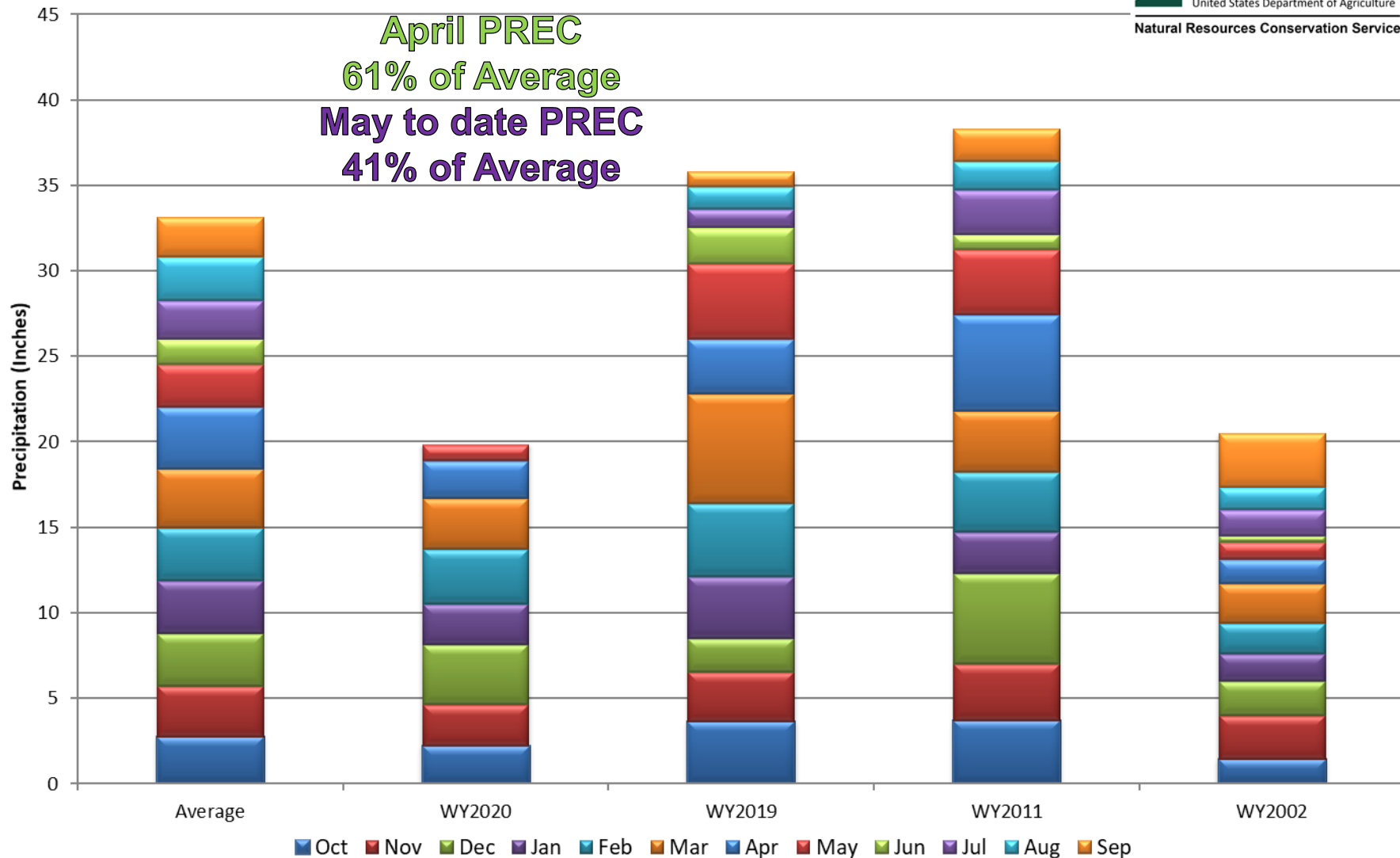
Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020



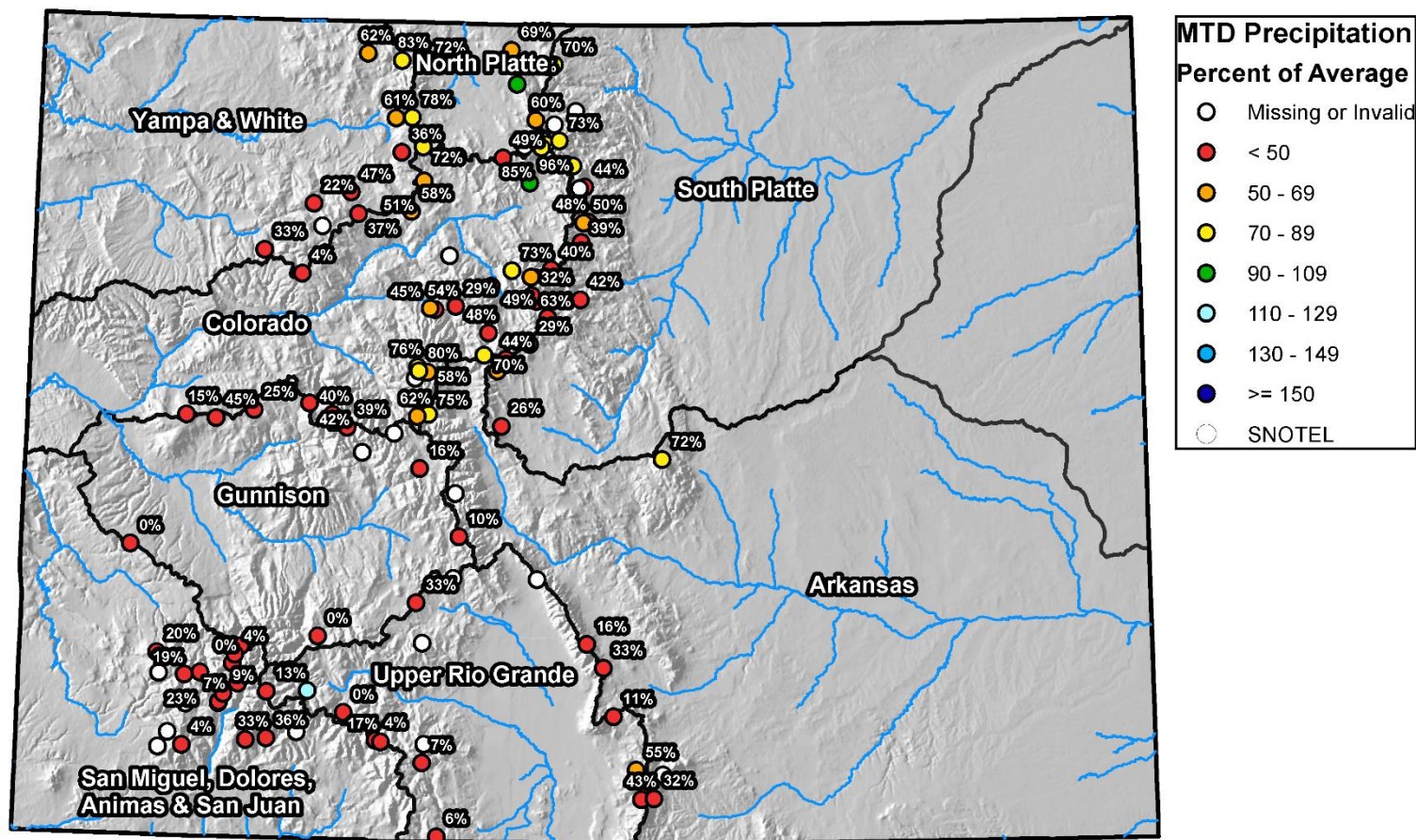
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Colorado SNOTEL Month-to-Date Precipitation

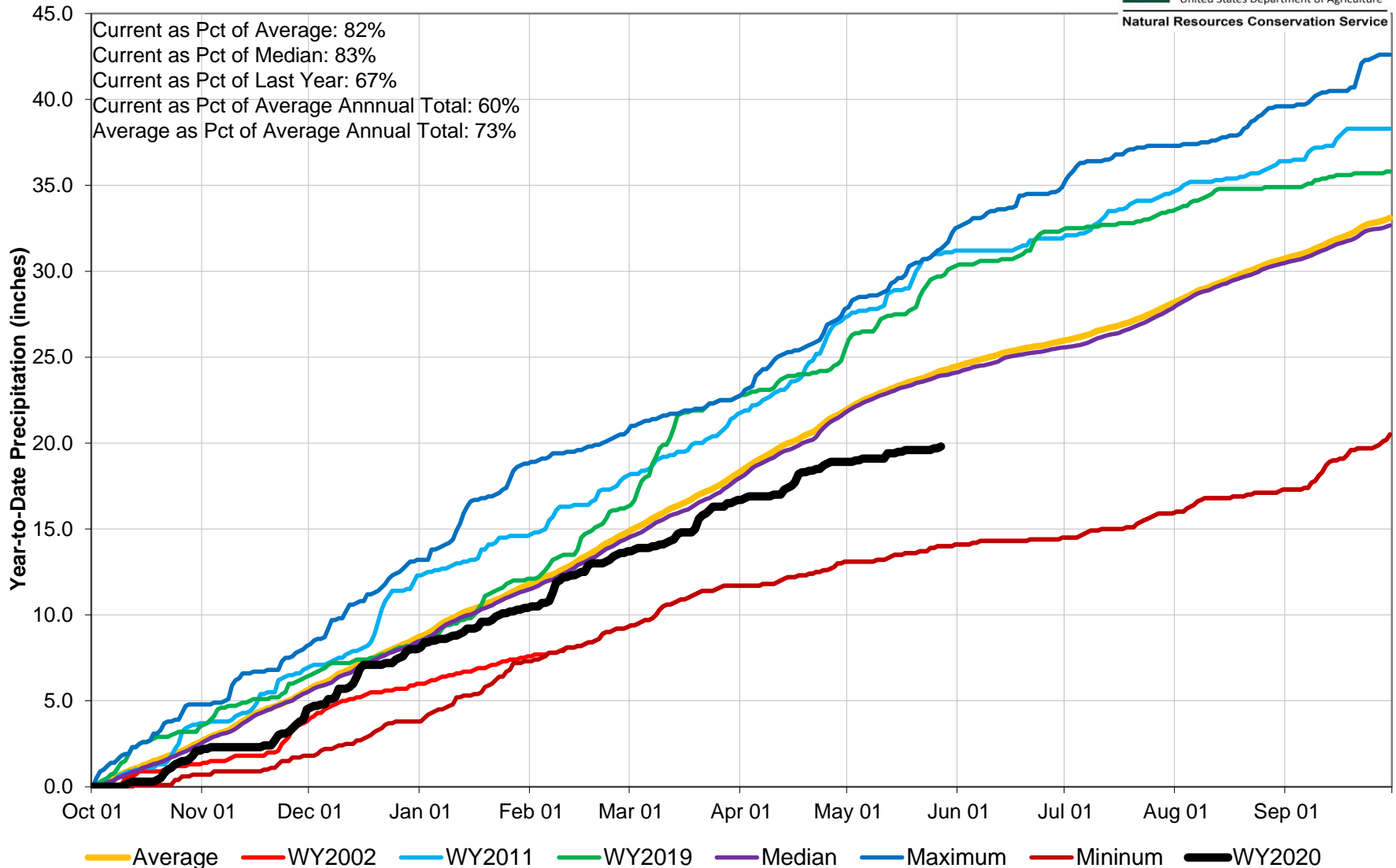
Current as of May 27, 2020





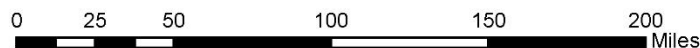
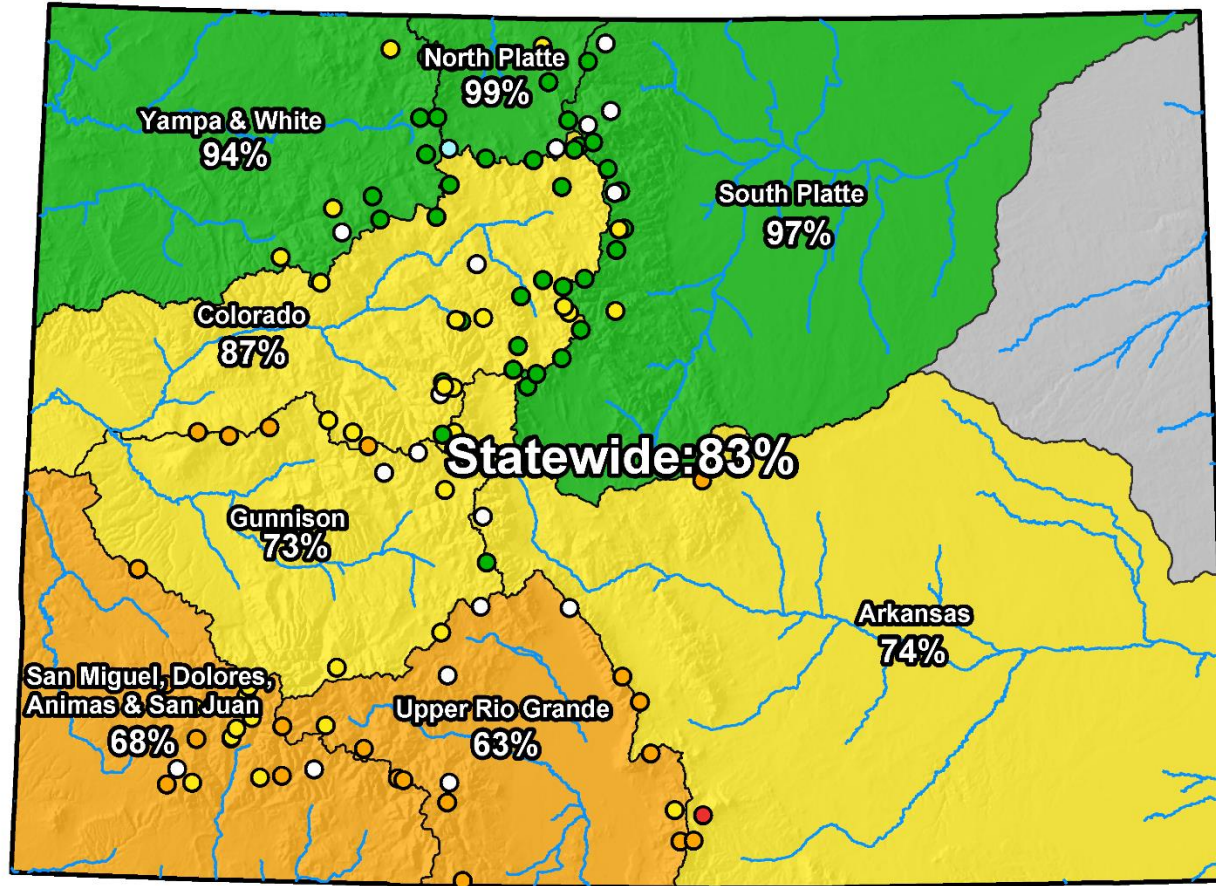
Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of May 27, 2020

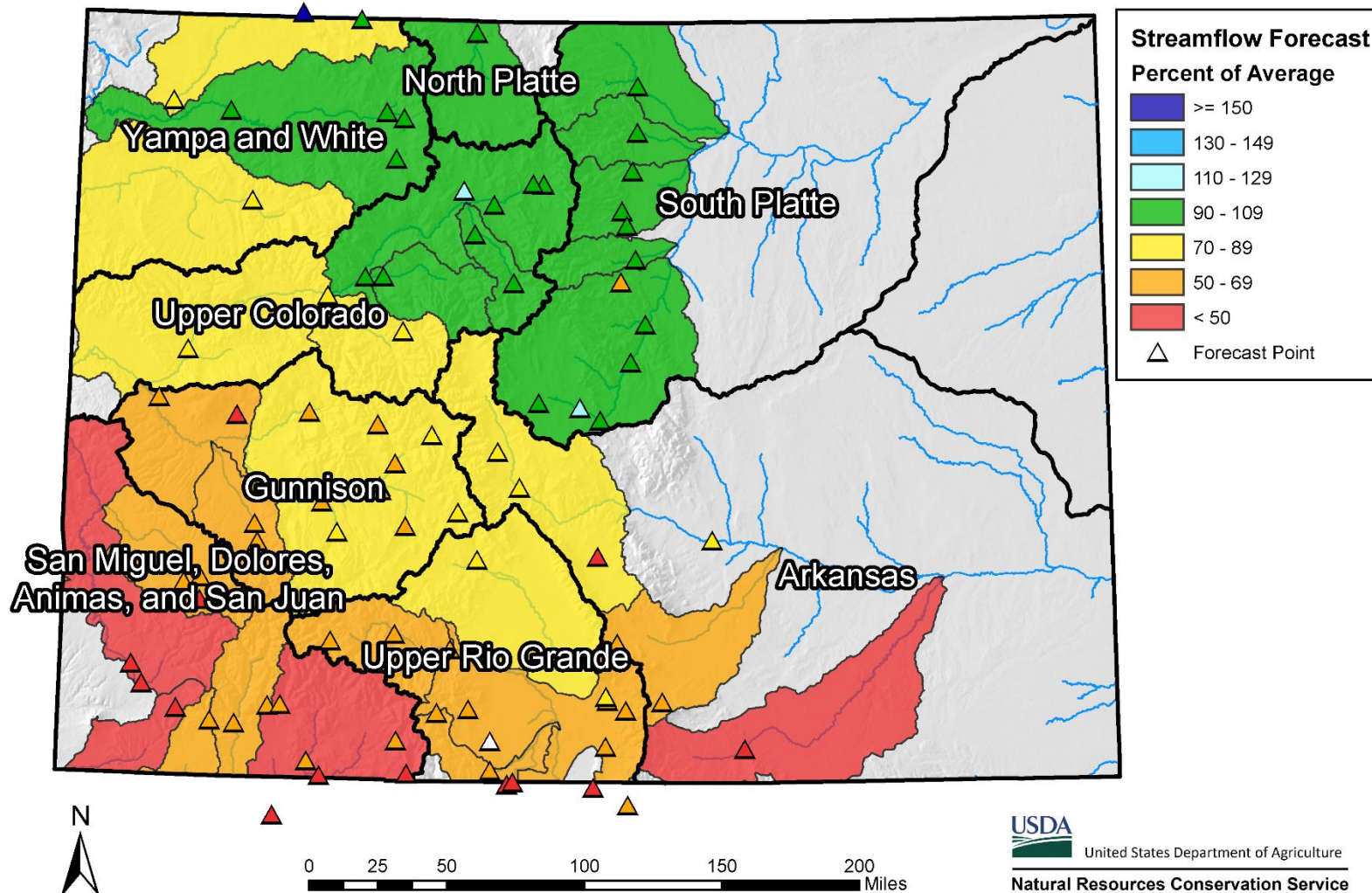


Colorado SNOTEL Water Year to Date Precipitation

Current as of May 27, 2020

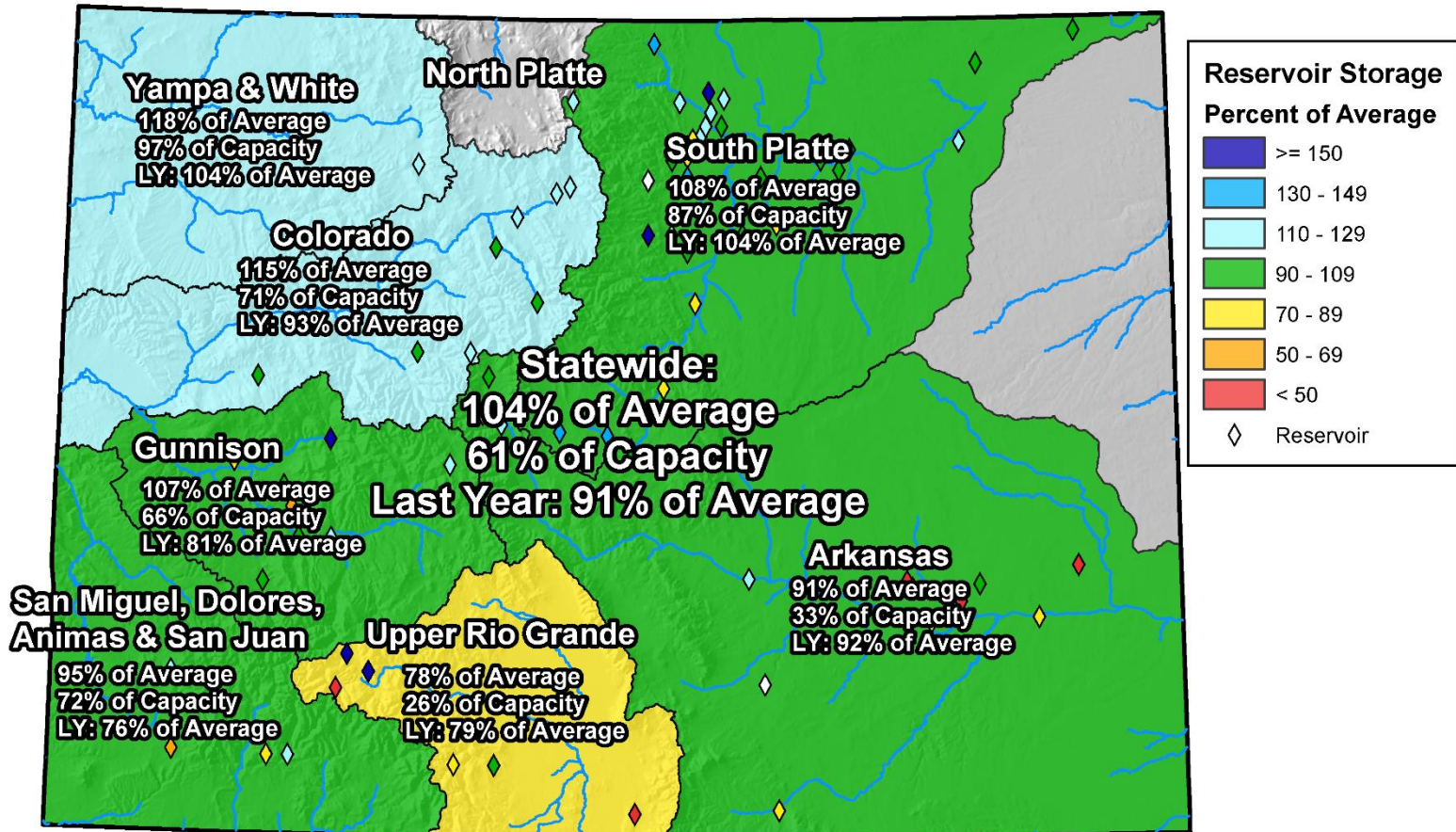


Colorado Streamflow Forecasts Summary May 1, 2020



Colorado Monthly Reservoir Storage Summary

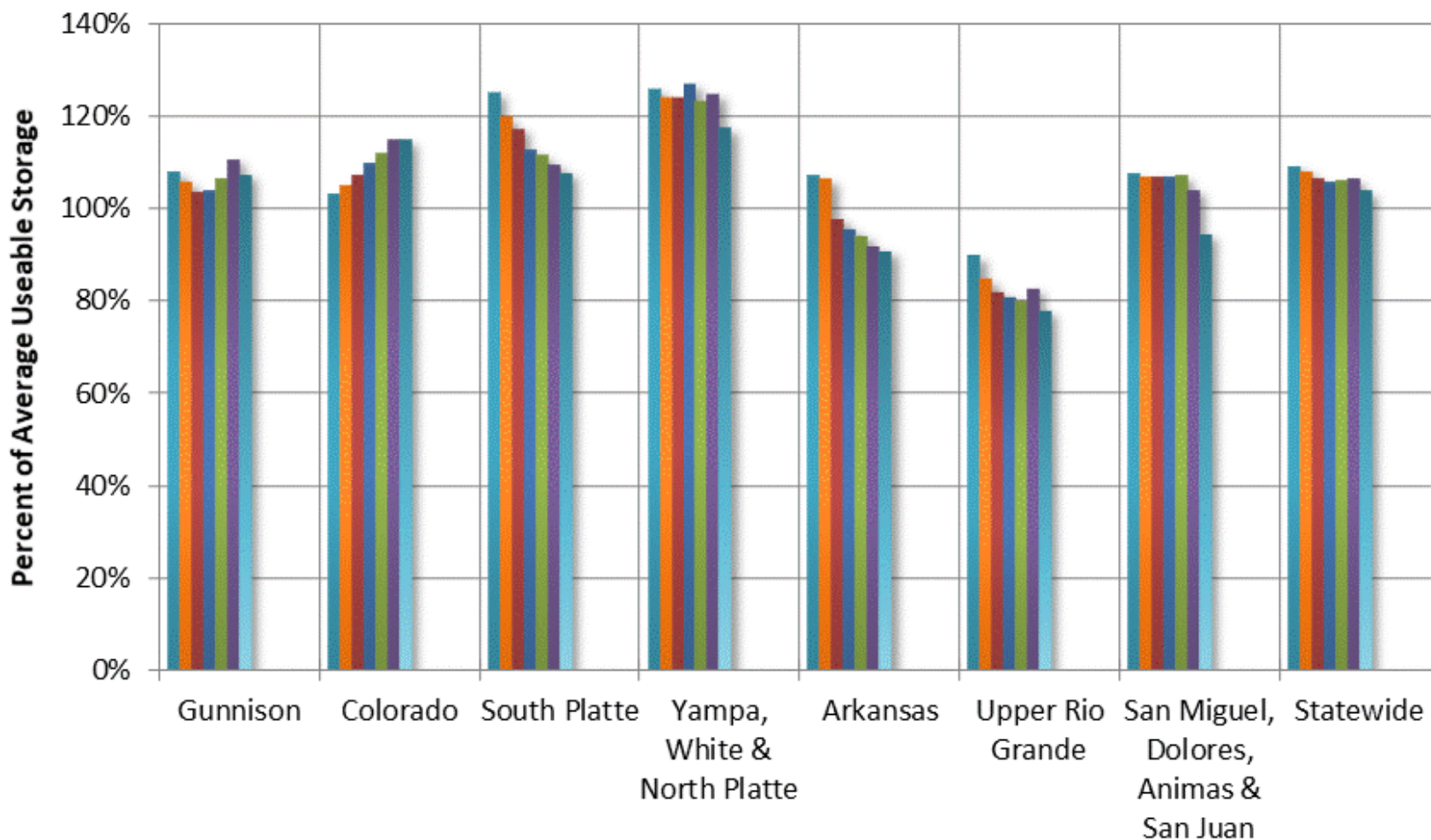
End of April 2020



0 25 50 100 150 200 Miles

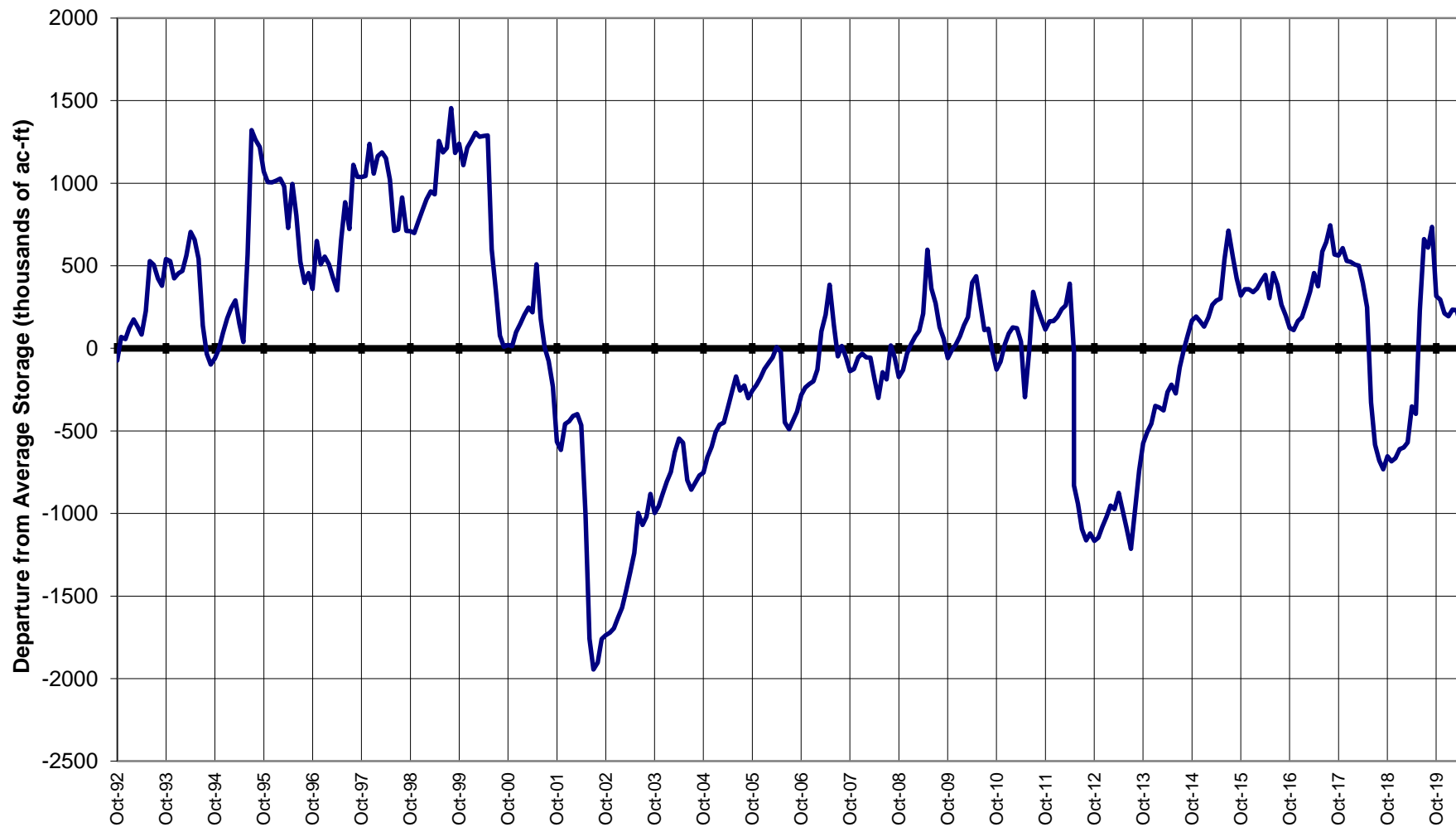
Colorado Reservoir Storage

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

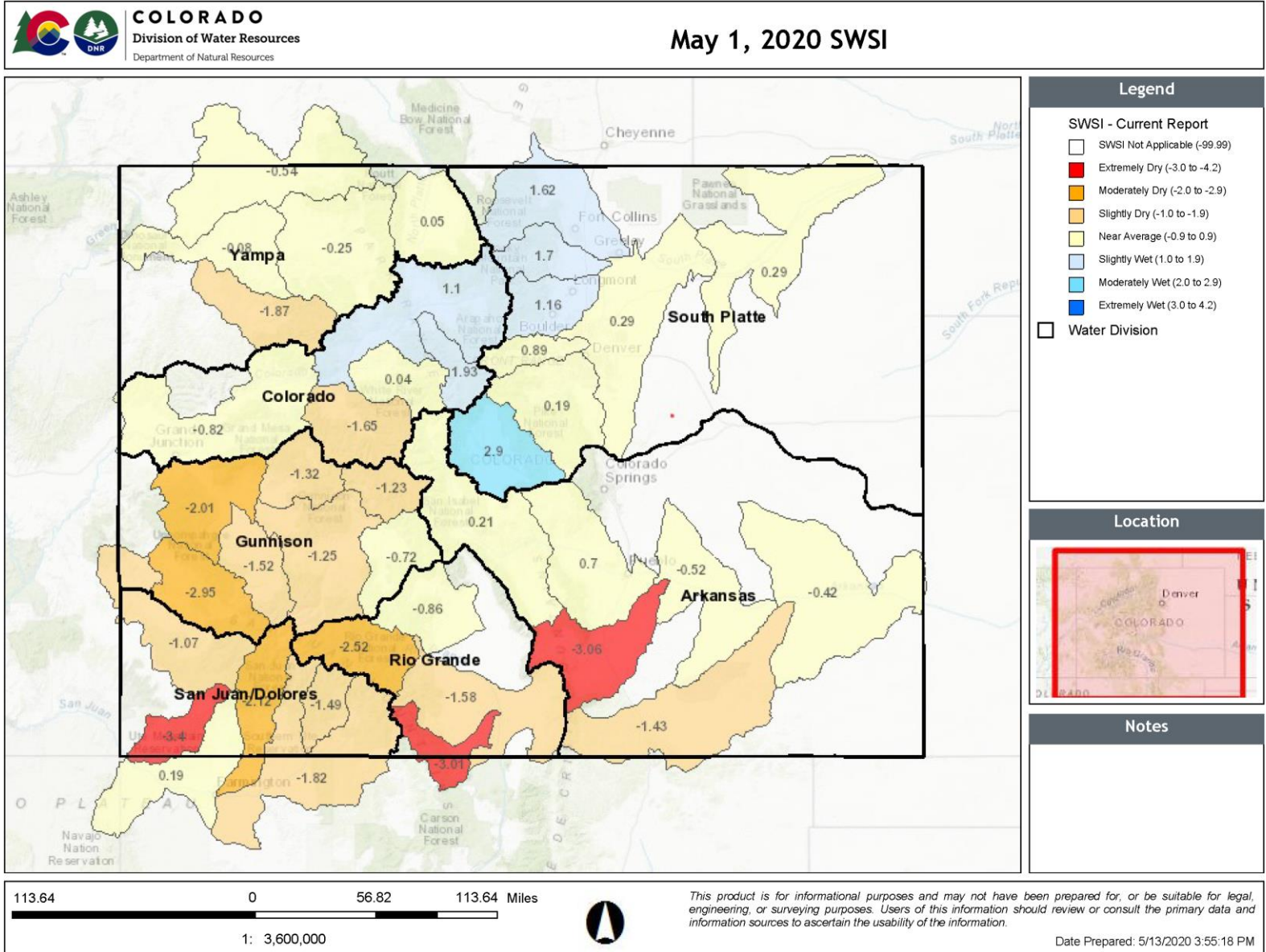




COLORADO STATEWIDE Reservoir Storage Departure from Average



May 1, 2020 SWSI



Summary

•Precipitation Statewide

- Statewide water year precip slipped from 86% of normal at the beginning of the month to now 83 (or 83 depending on which product) % of normal.
- Month to date precipitation continues below normal trend. Statewide precip was 41% of normal, with the SMDASJ only 10% of normal so far this month.

•Statewide snowpack has decreased from slightly above normal at its peak in early April to now 69% of normal.

- Snowpack melt rates were well above normal at times in April

•Basin-wide reservoir storage remains above average in all major basins except for the Rio Grande

•Streamflow forecasts range from 37% (Surface Ck nr Cedaredge) to 111% (Spinney Res Inflow) of median values

- Dry fall precip is having implications on stream flow forecasts
- However based on May to date precip fcsts will likely continue to fall



United States Department of Agriculture

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Hydrologist

Colorado Snow Survey Supervisor

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



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