



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

June 25th, 2019

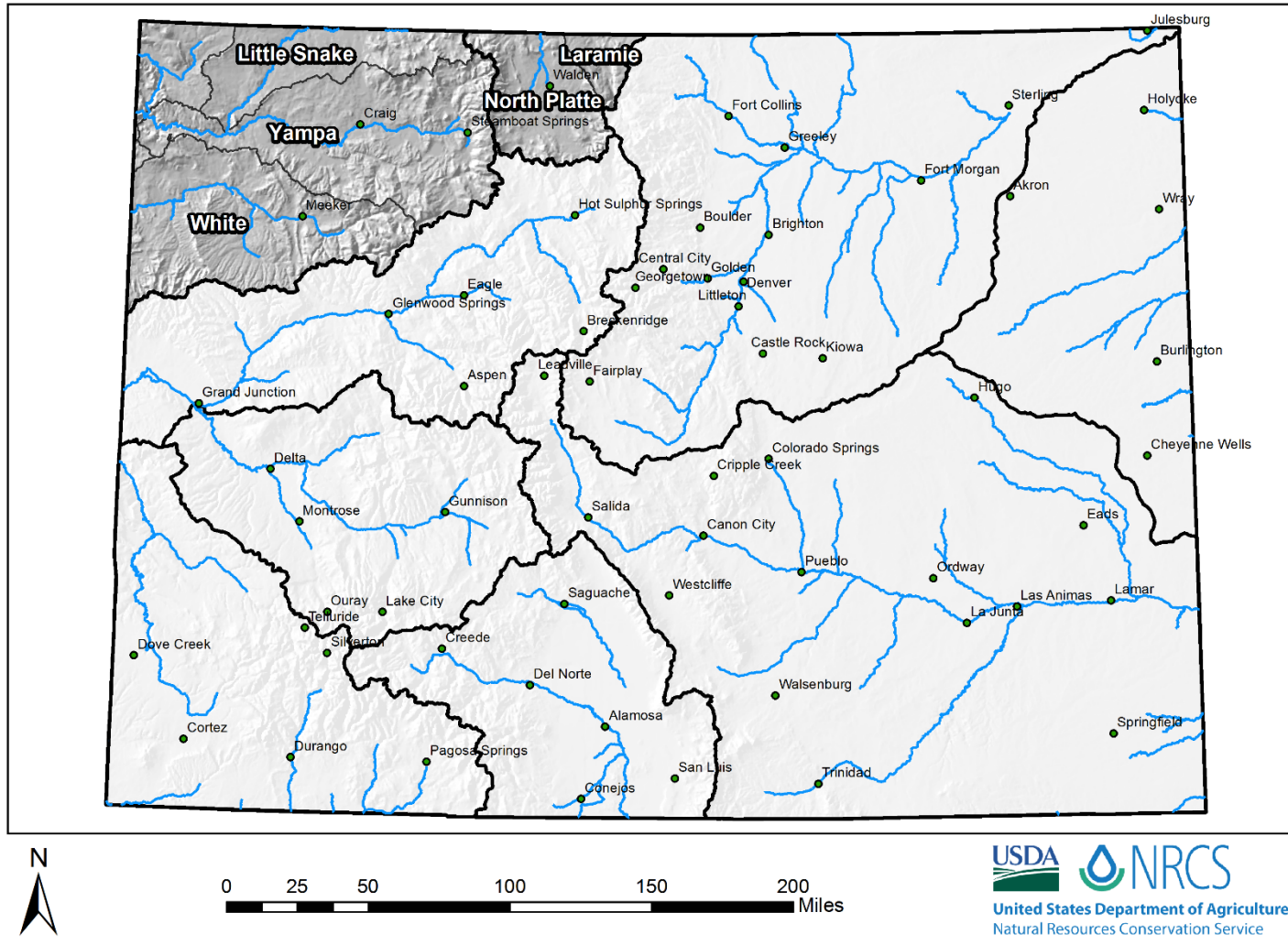
NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos
Hydrologist
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



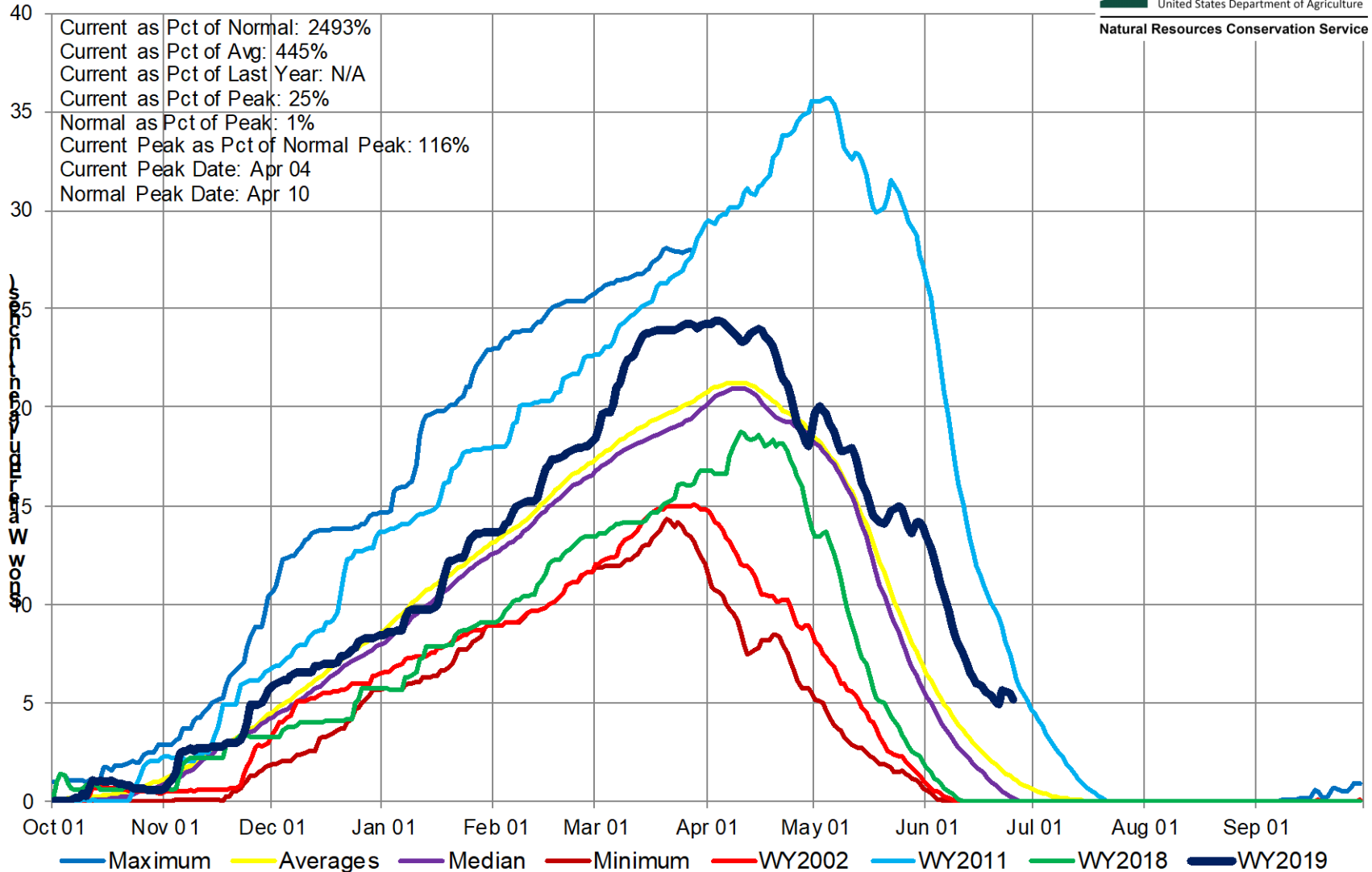
Yampa and White River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



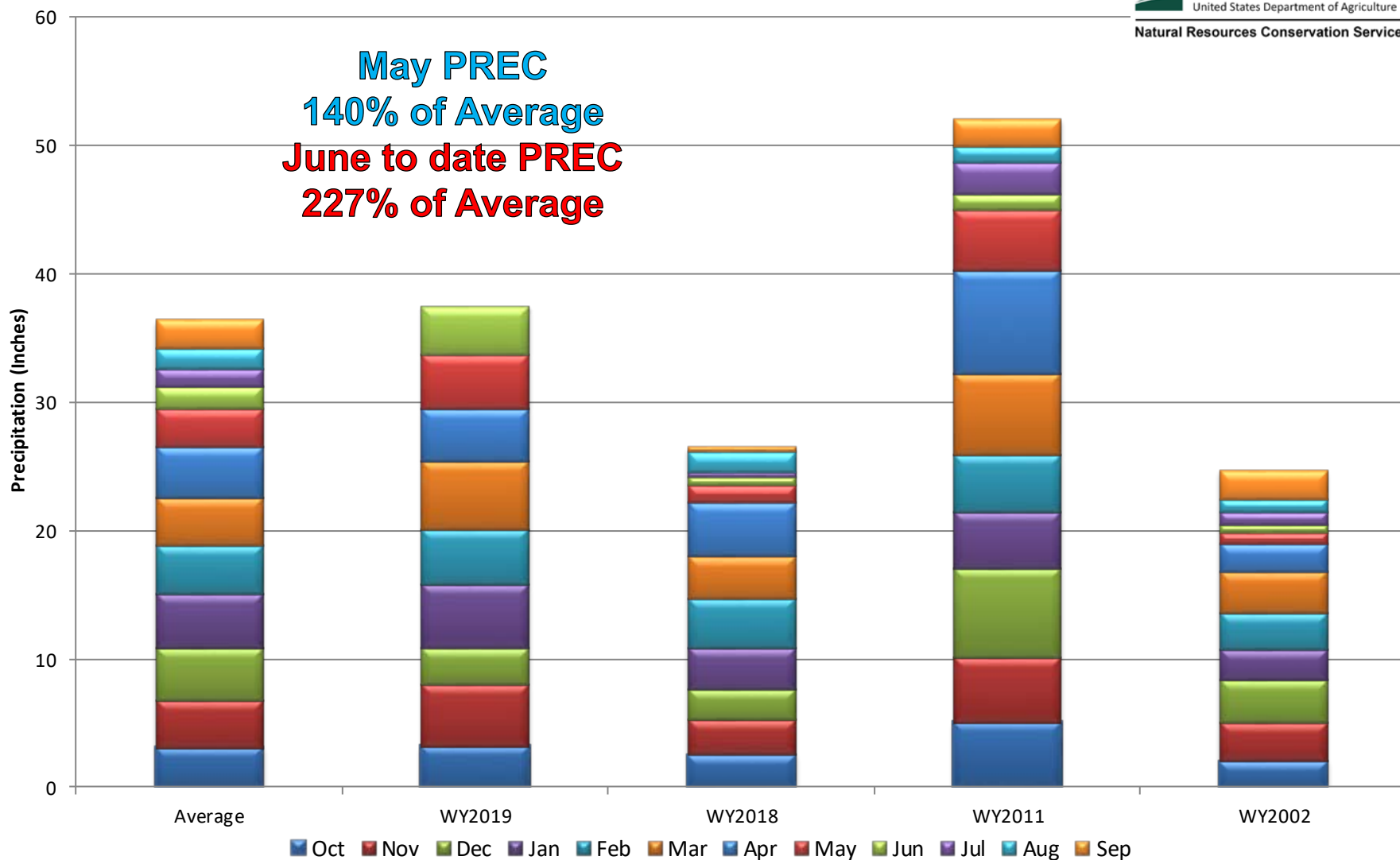
United States Department of Agriculture

Natural Resources Conservation Service

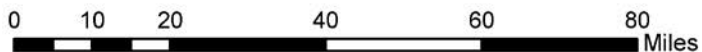
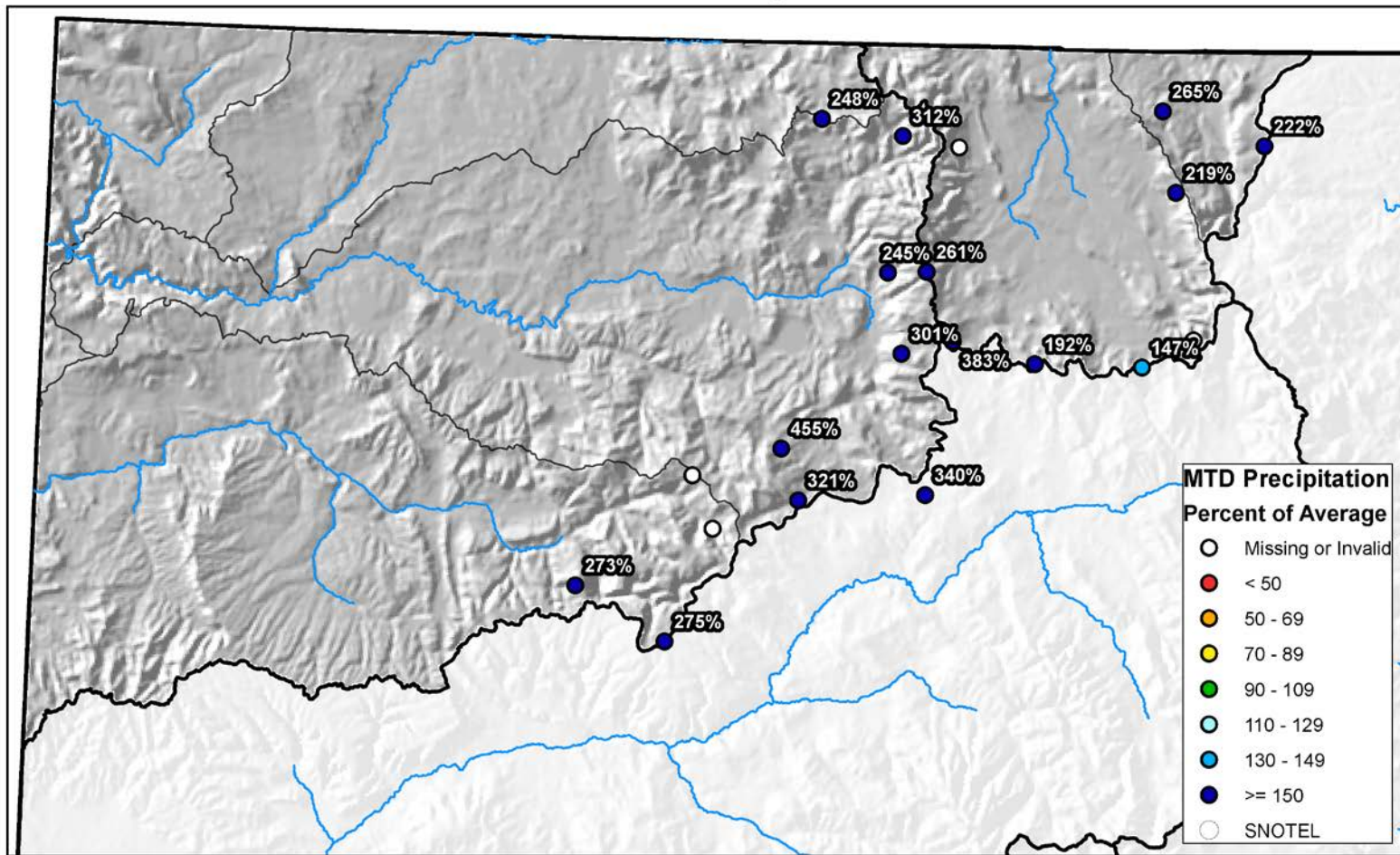


Yampa and White River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



Yampa, White, and North Platte River Basins Month to Date Precipitation Summary Current as of Jun 24, 2019



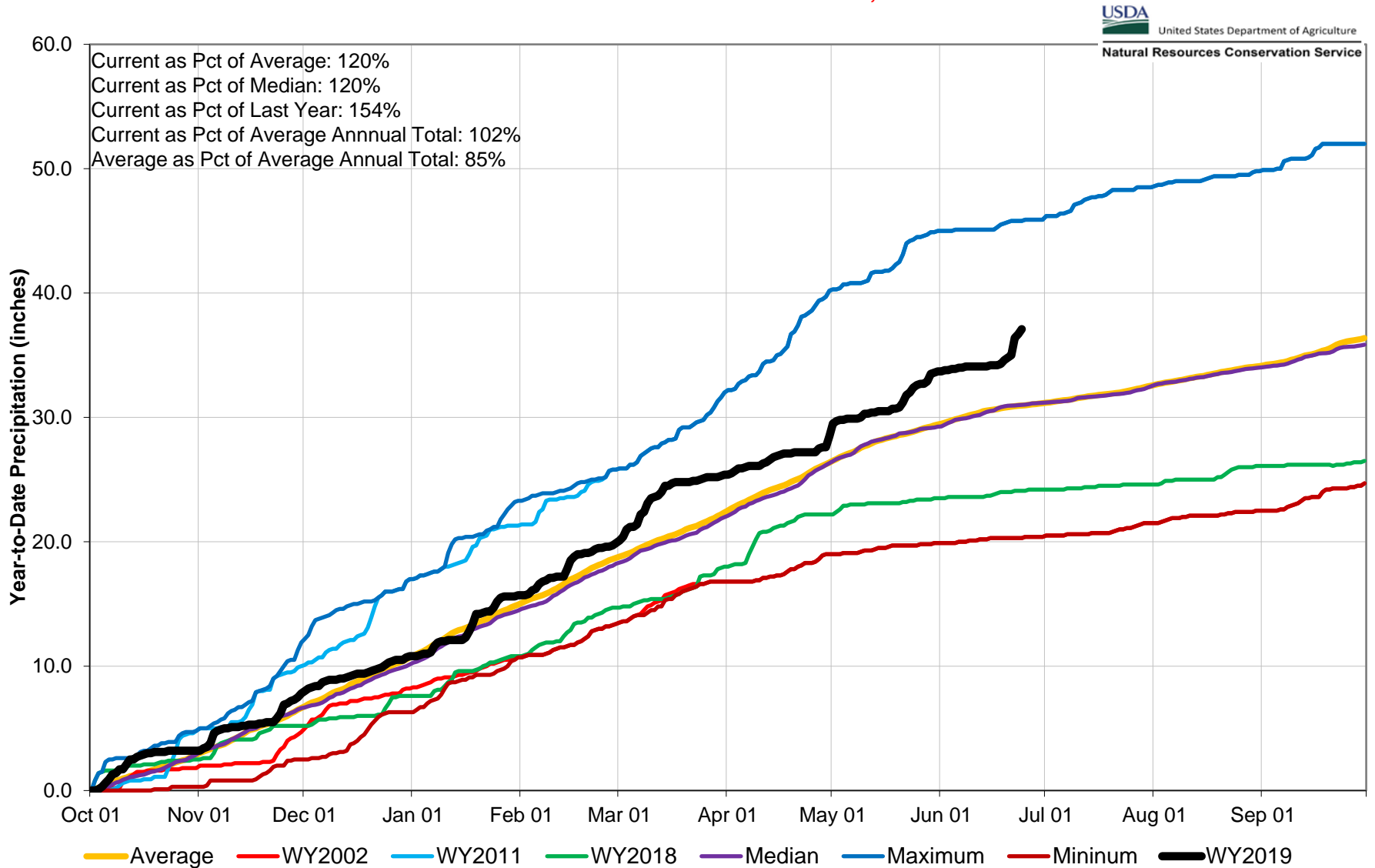
United States Department of Agriculture

Natural Resources Conservation Service

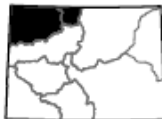
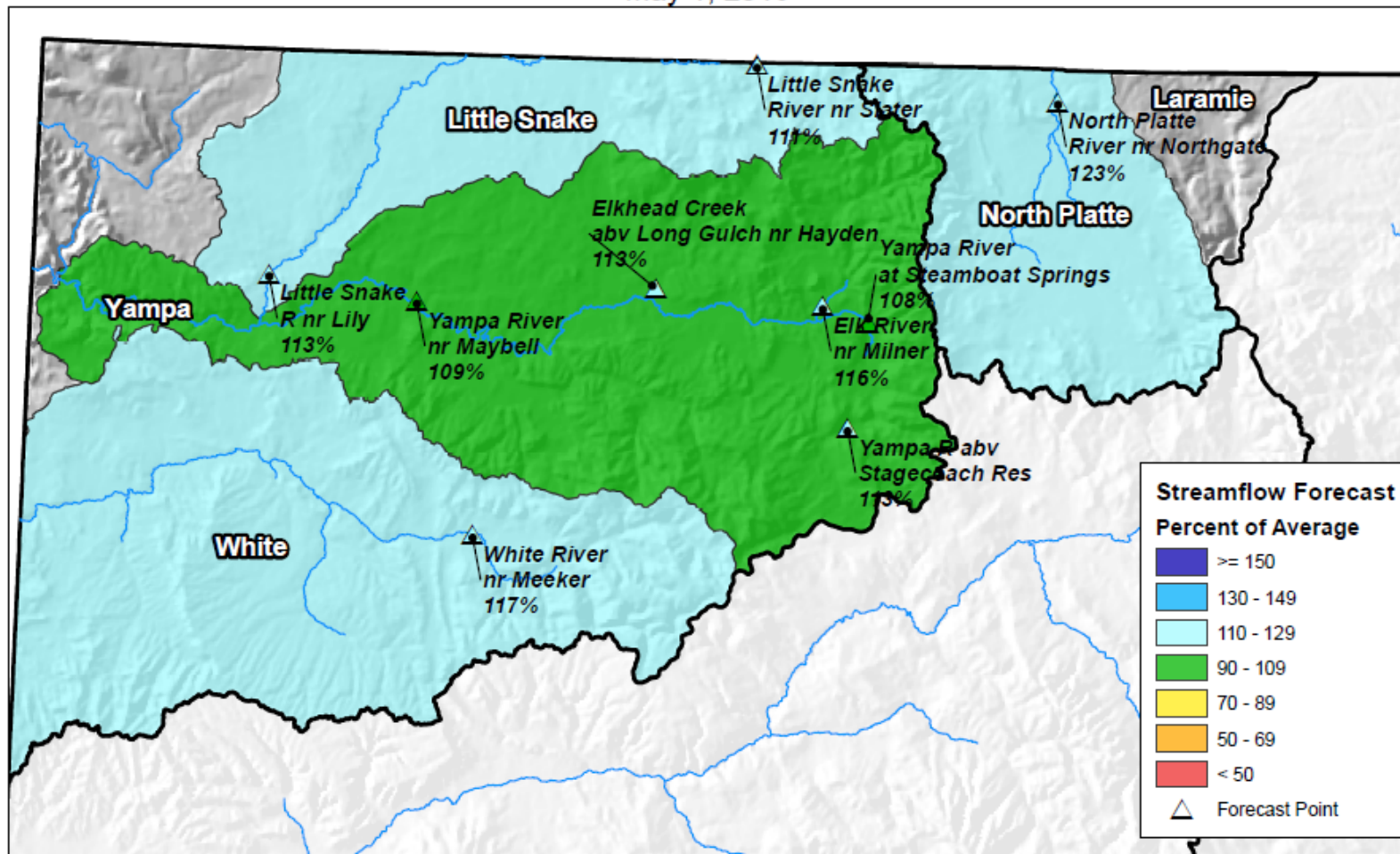


Yampa and White River Basins High/Low Year-to-Date Precipitation Summary

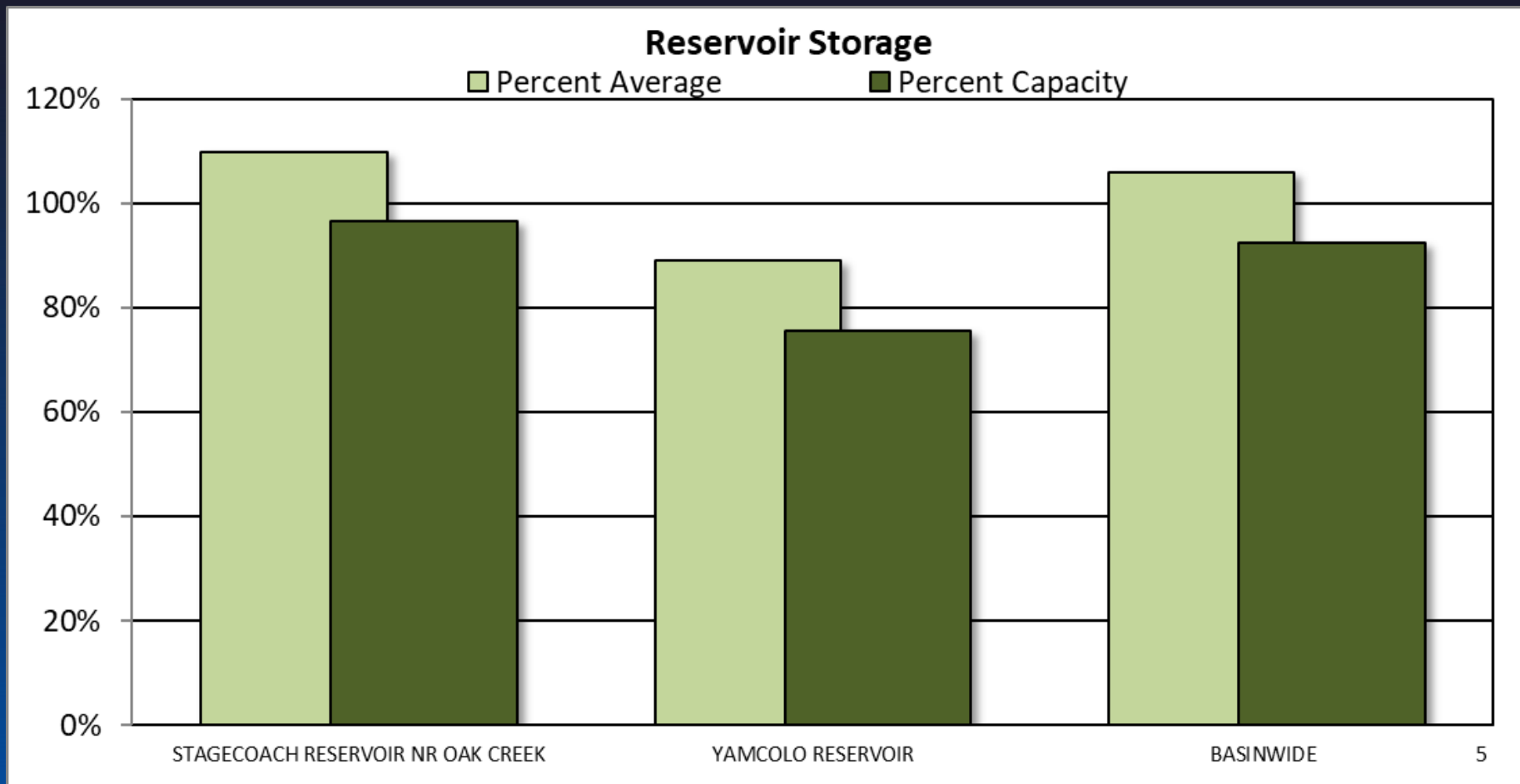
Based on Provisional SNOTEL data as of Jun 24, 2019



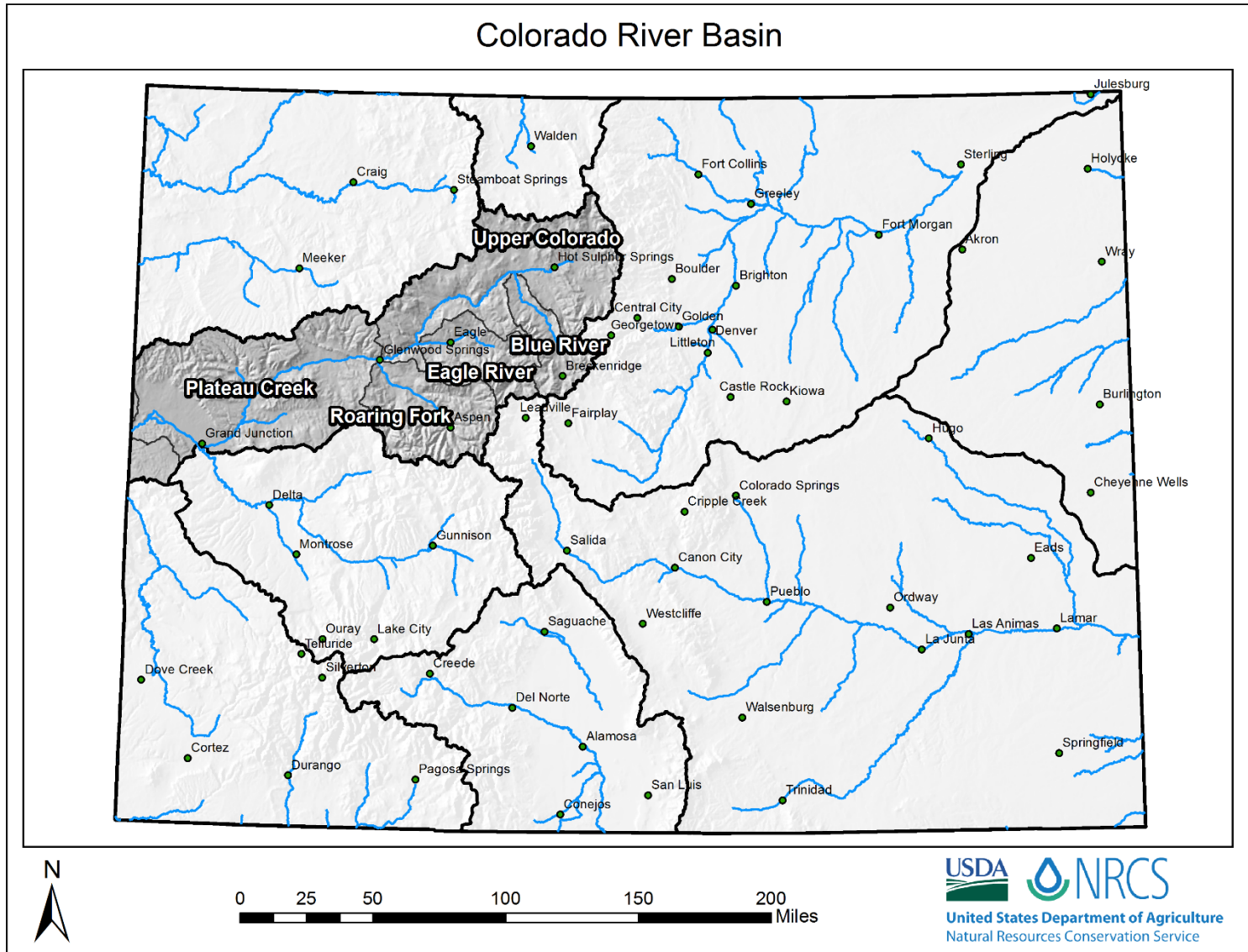
Yampa, White, and North Platte River Basins Streamflow Forecast Summary May 1, 2019



0 10 20 40 60 80 Miles



Major Basin Summary



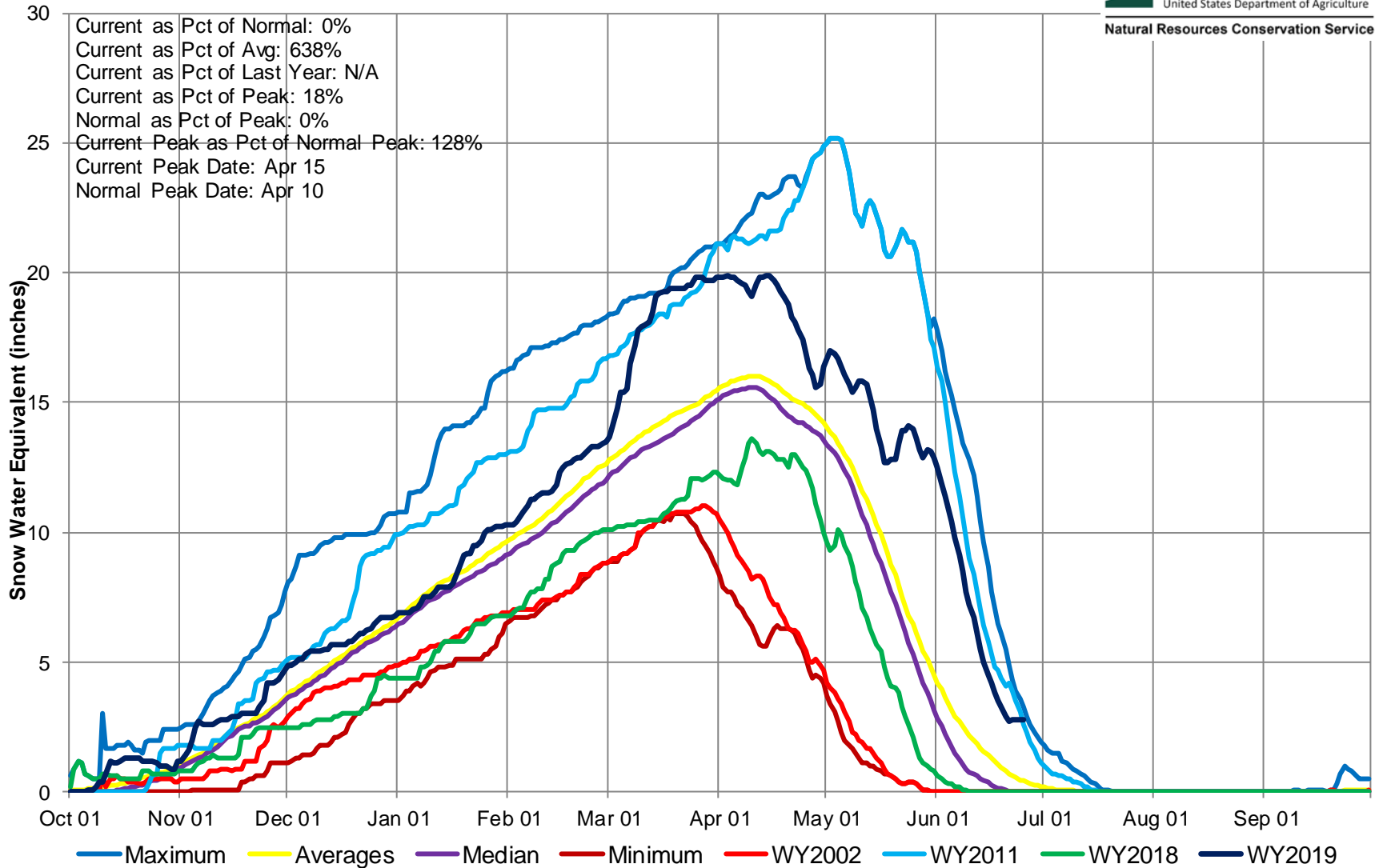
Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



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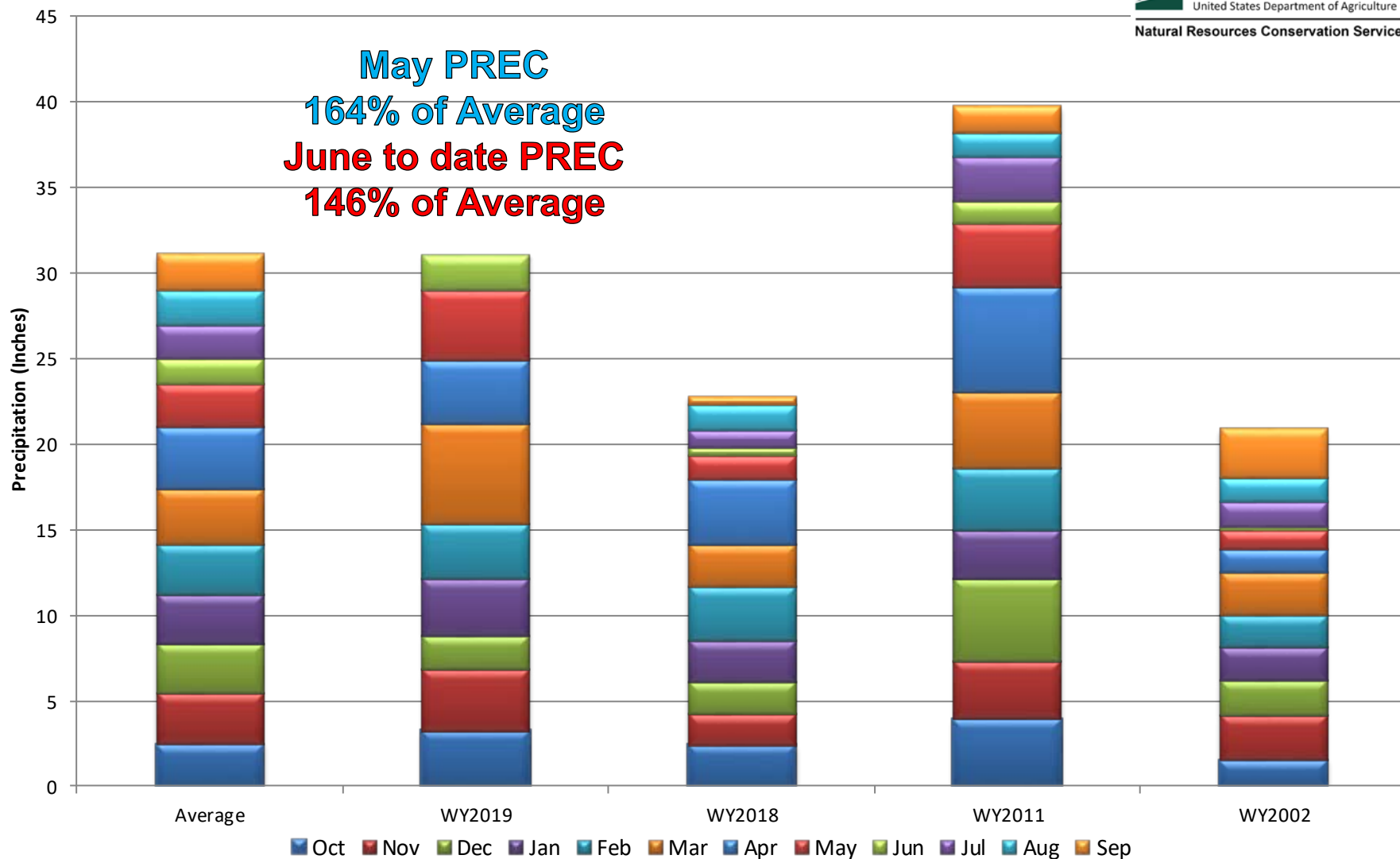
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



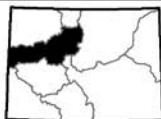
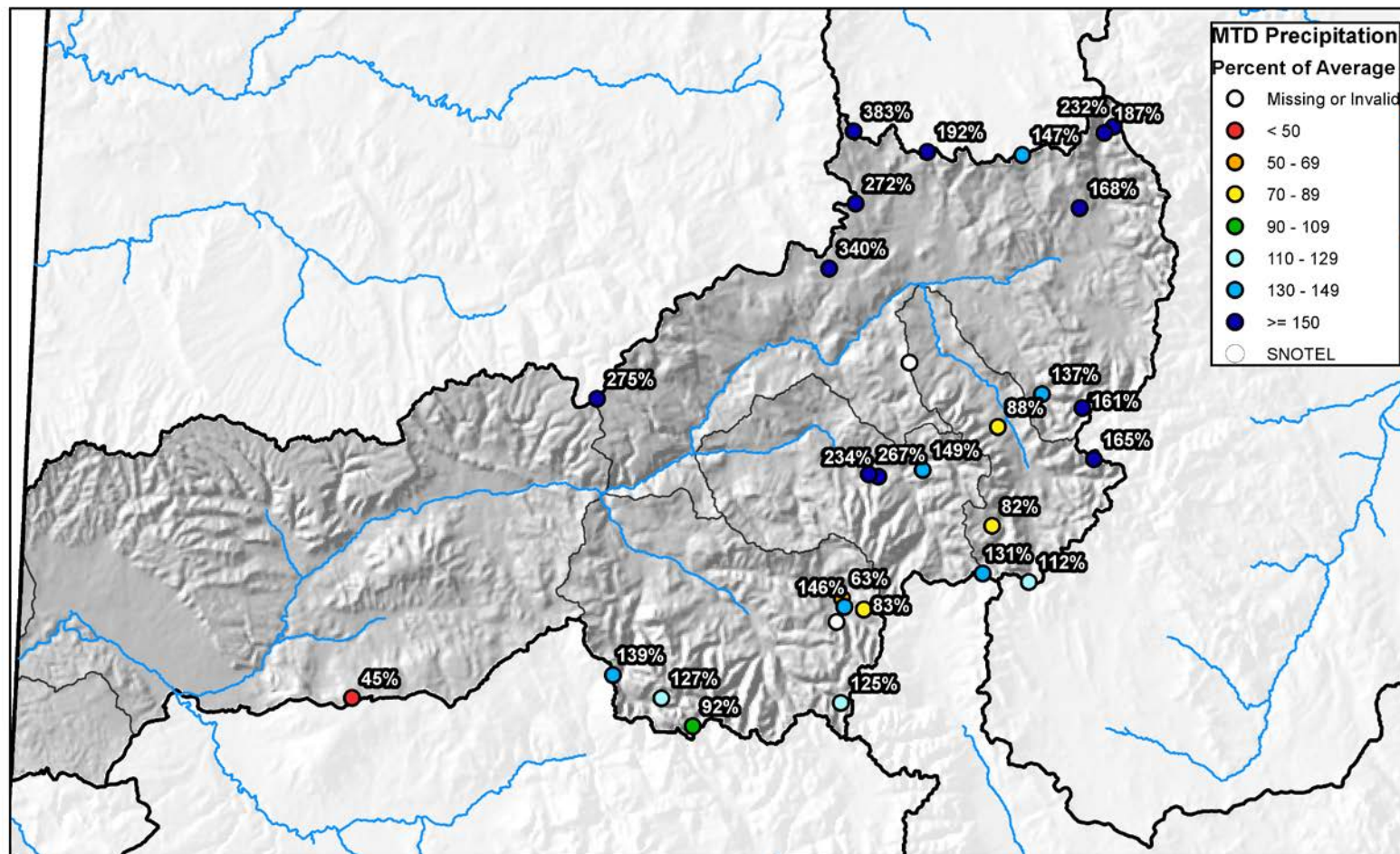
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Upper Colorado River Basin Month to Date Precipitation Summary

Current as of Jun 24, 2019



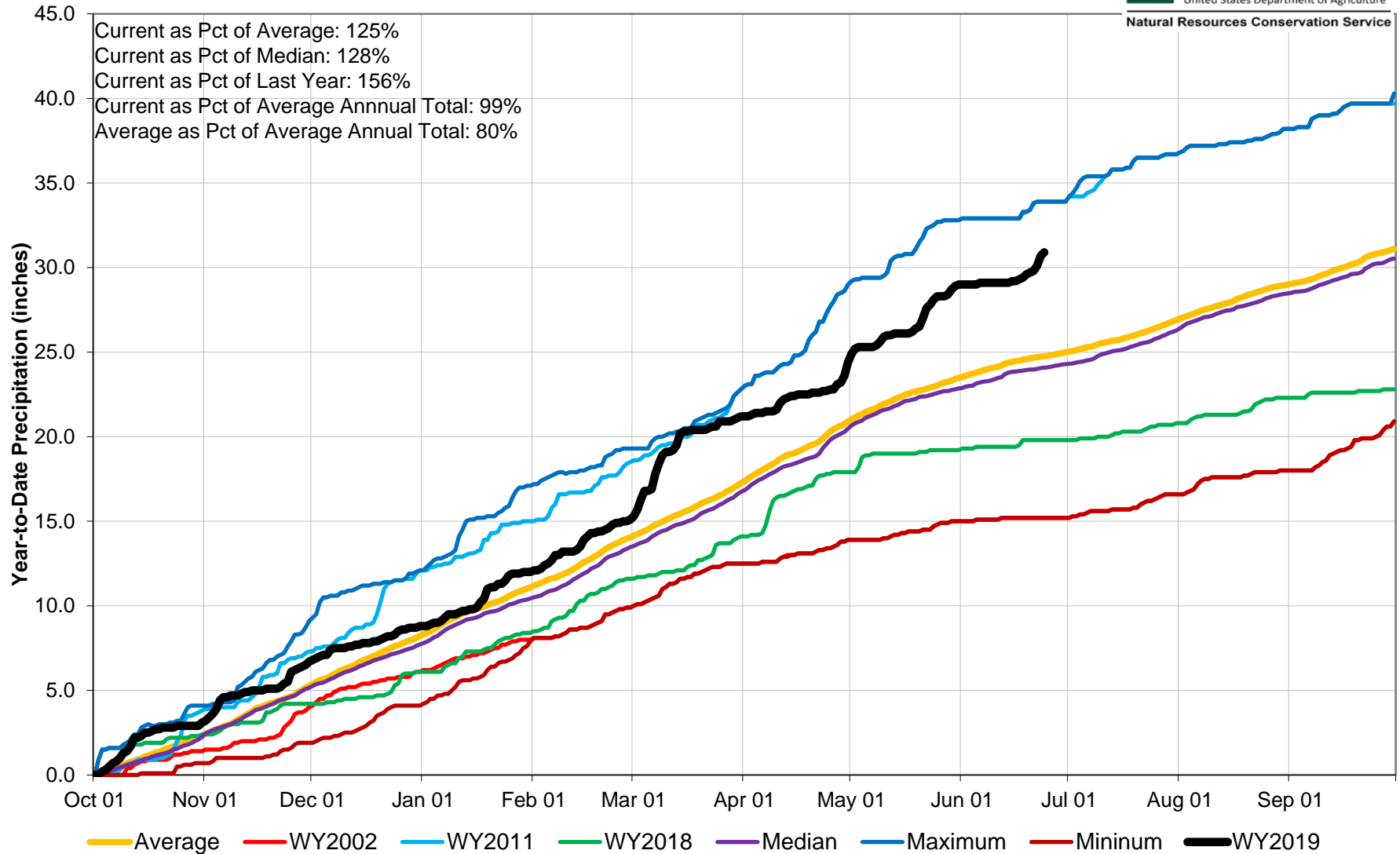
United States Department of Agriculture

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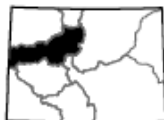
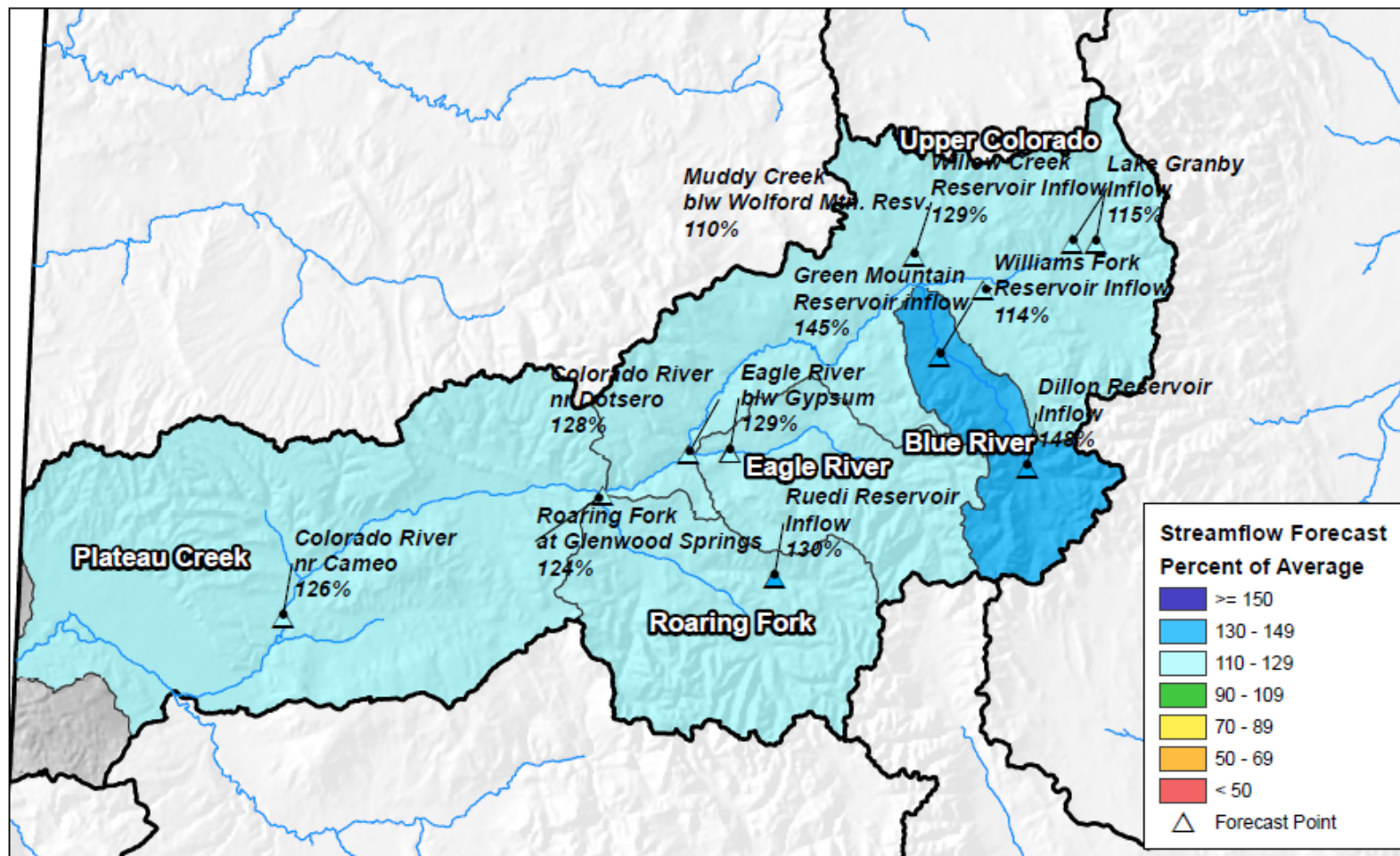
Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jun 24, 2019



Upper Colorado River Basin Streamflow Forecast Summary

May 1, 2019

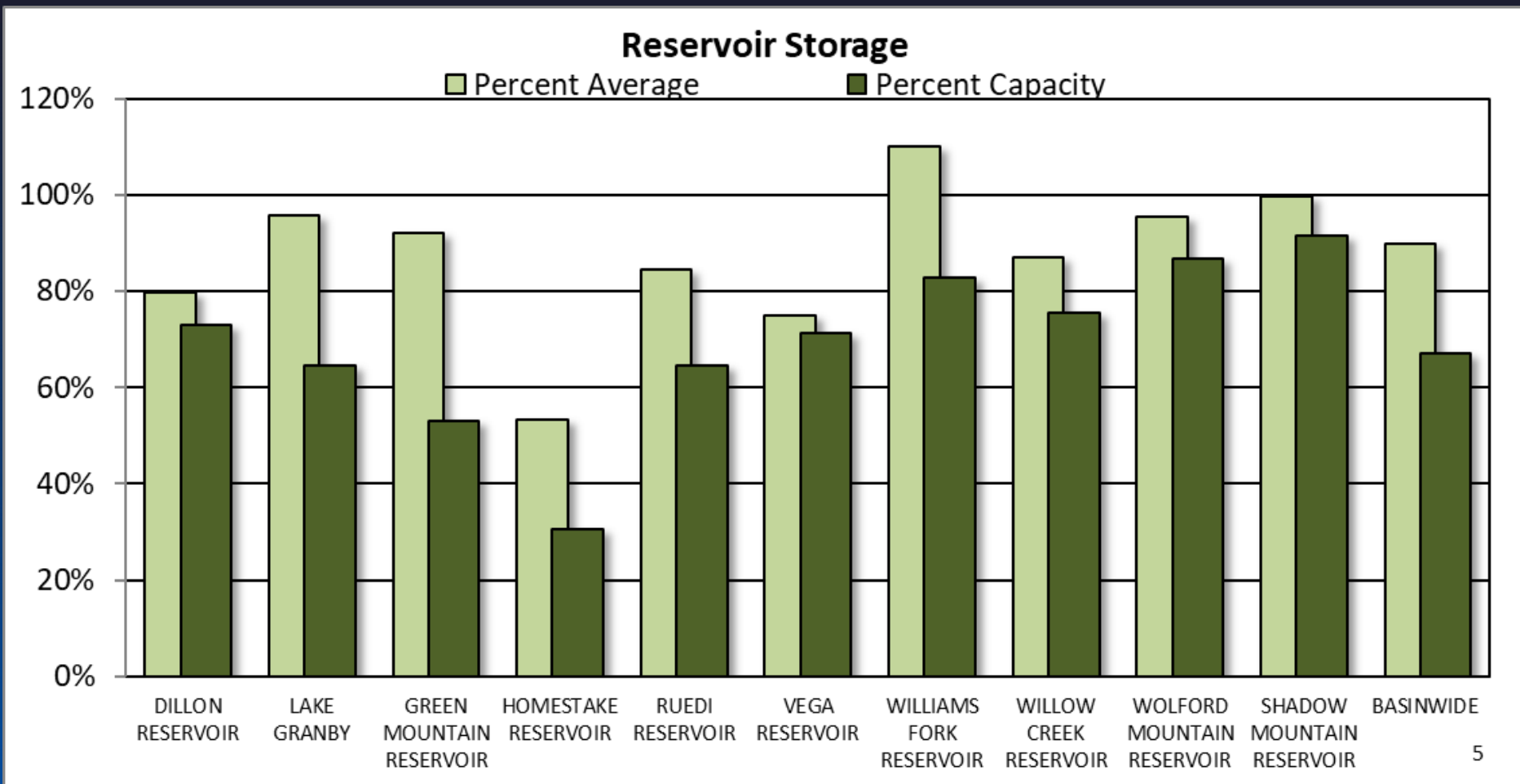


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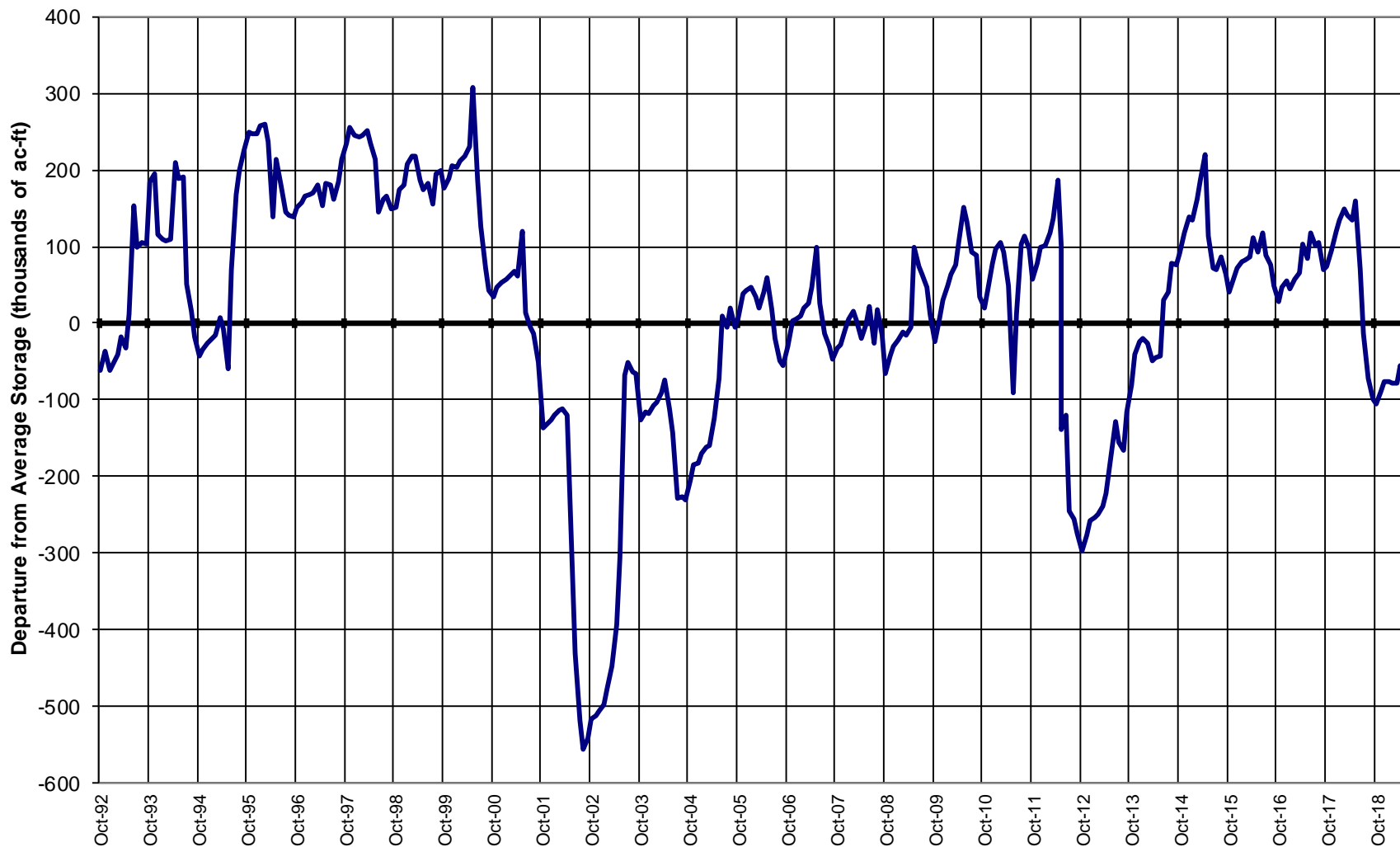


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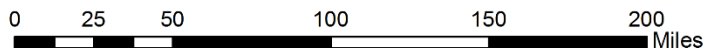
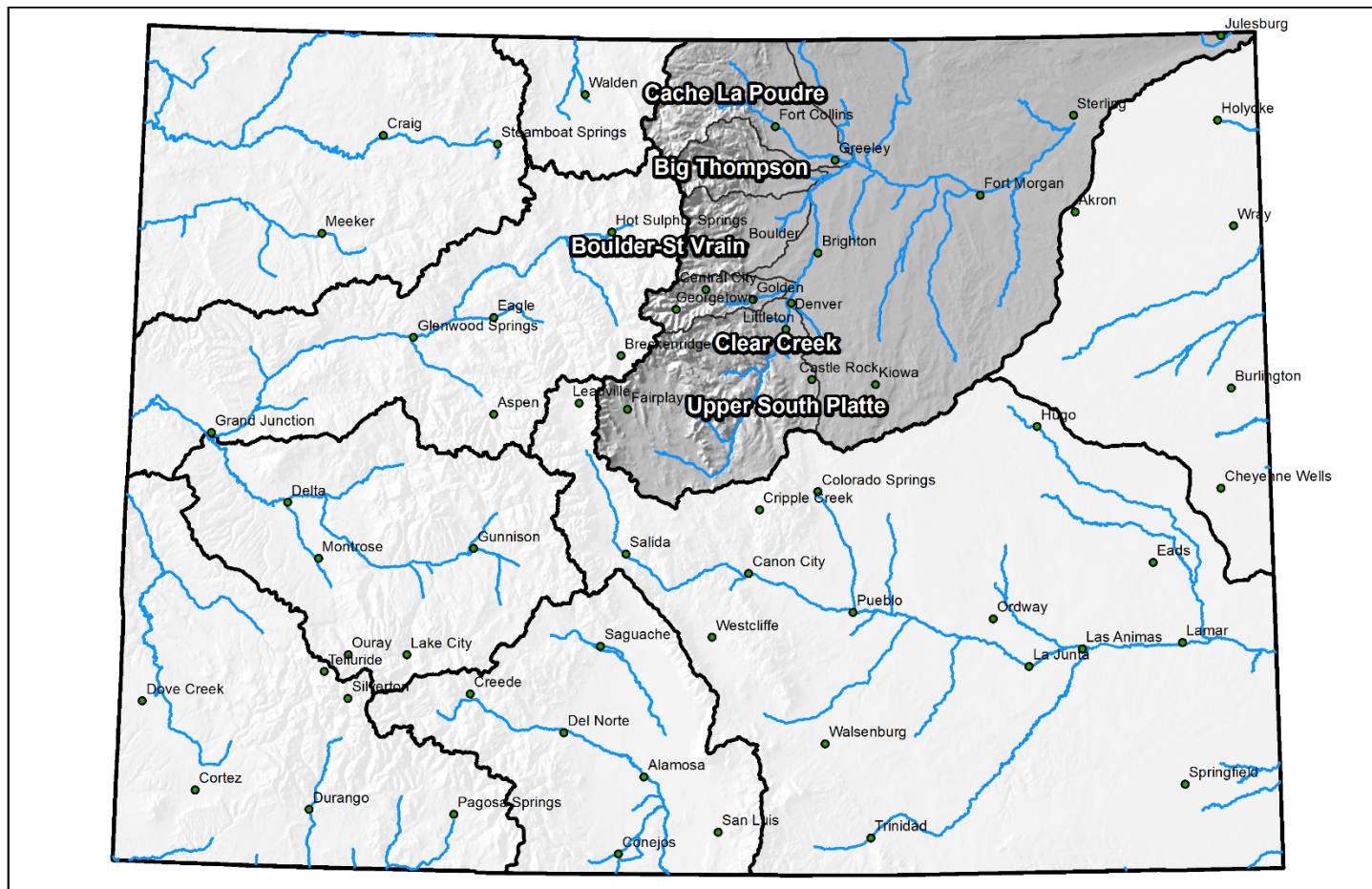


COLORADO RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

South Platte River Basin



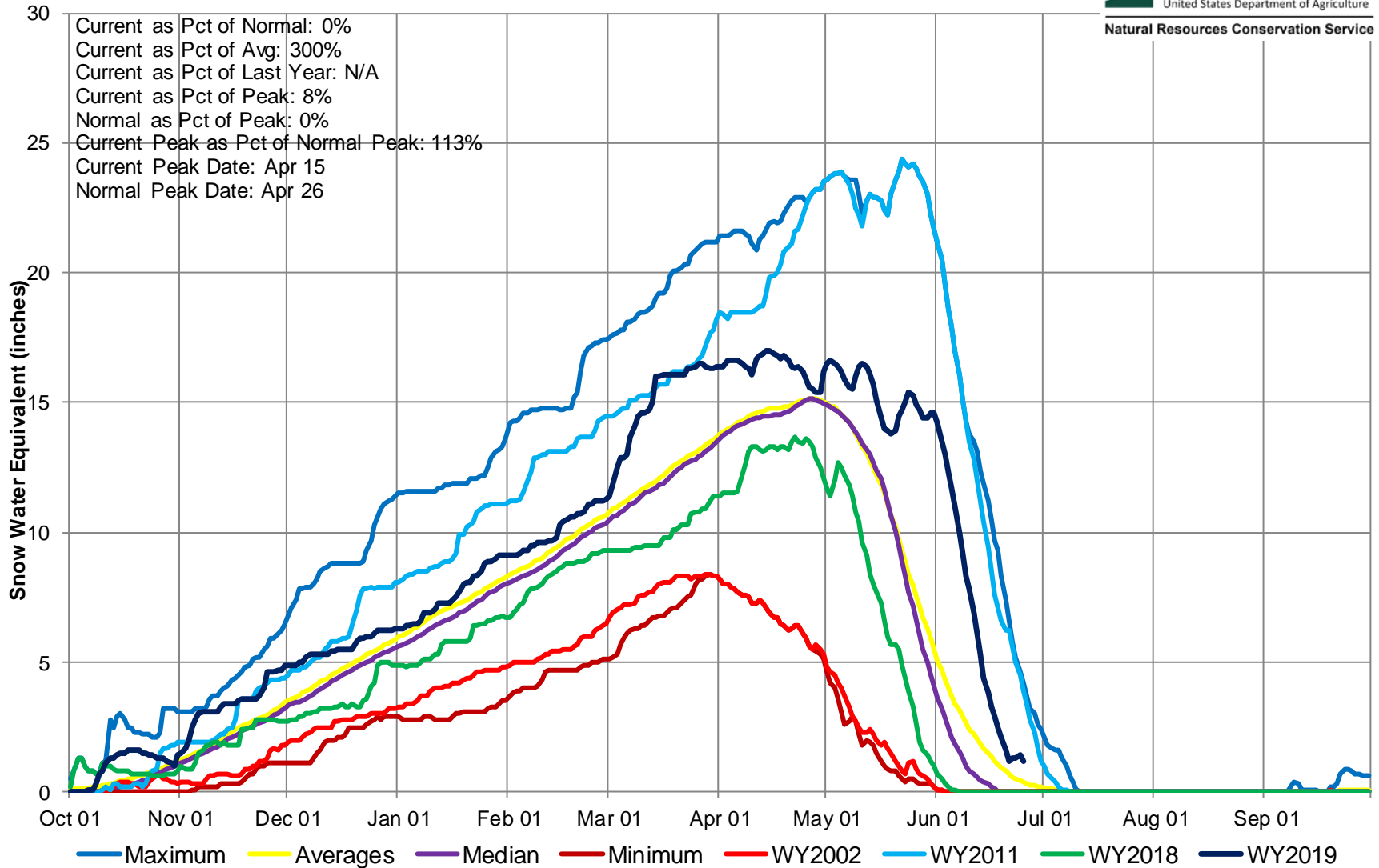
South Platte River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



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Natural Resources Conservation Service



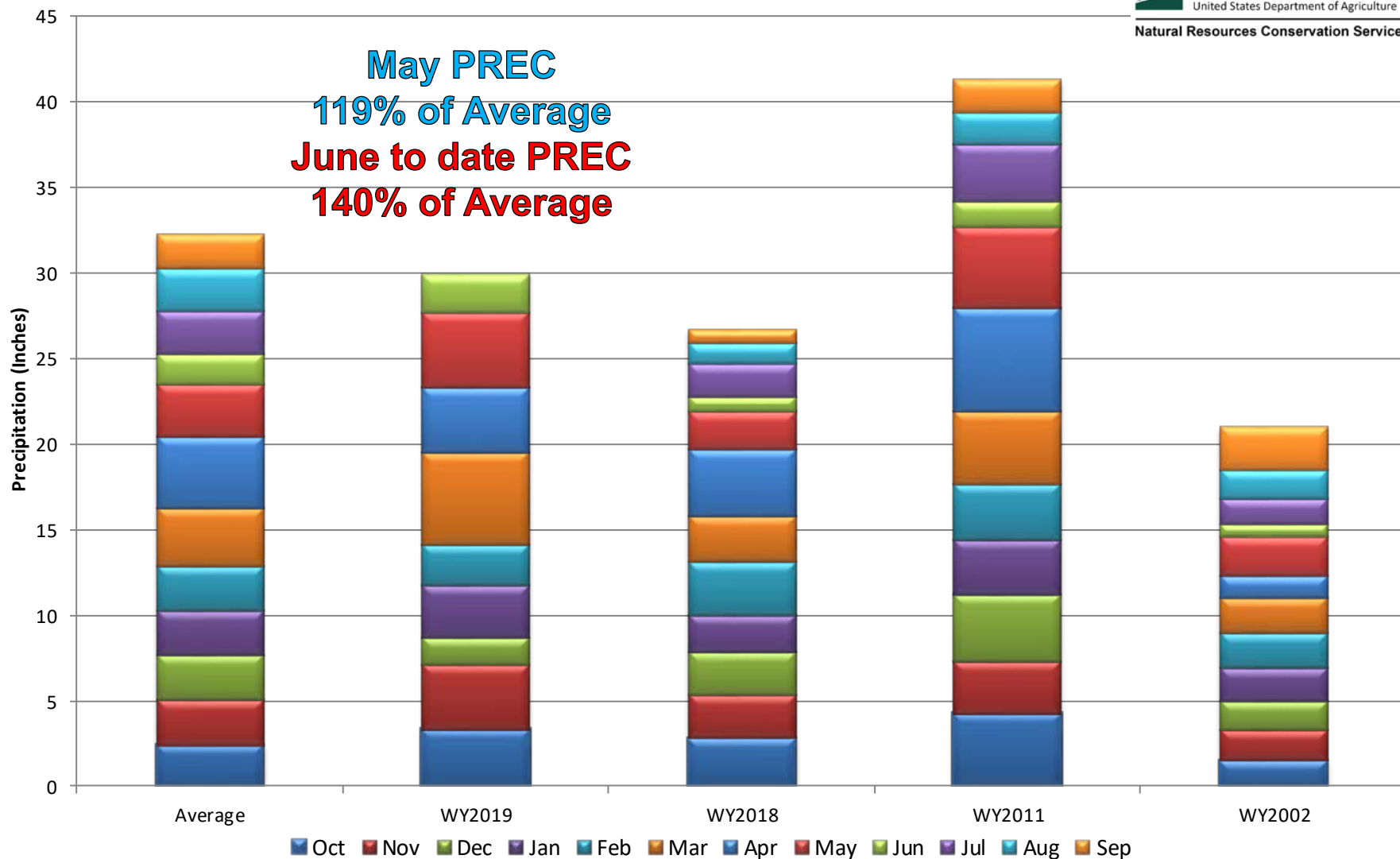
South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



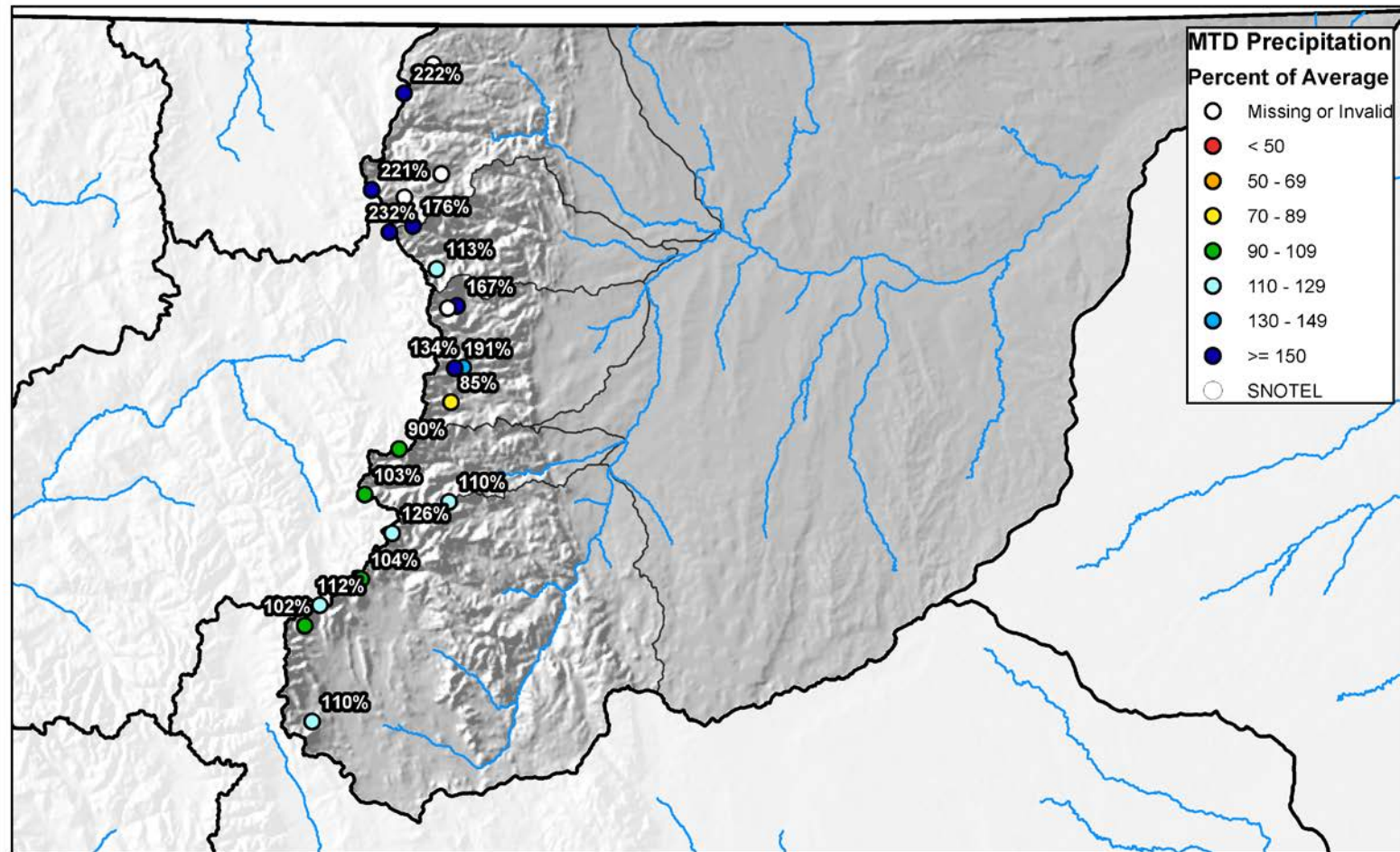
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South Platte River Basin Month to Date Precipitation Summary

Current as of Jun 24, 2019

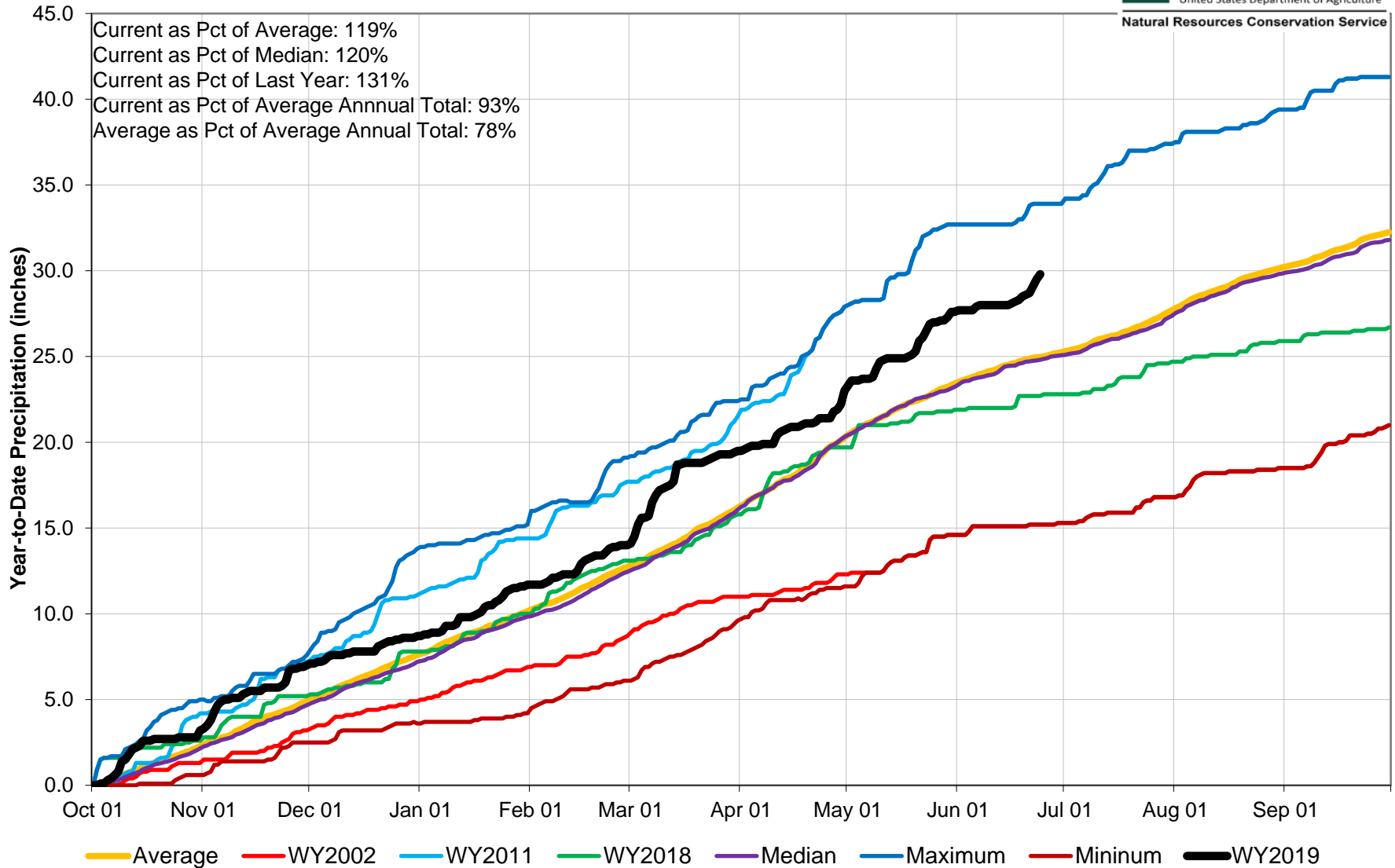


0 10 20 40 60 80 Miles



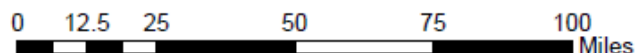
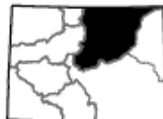
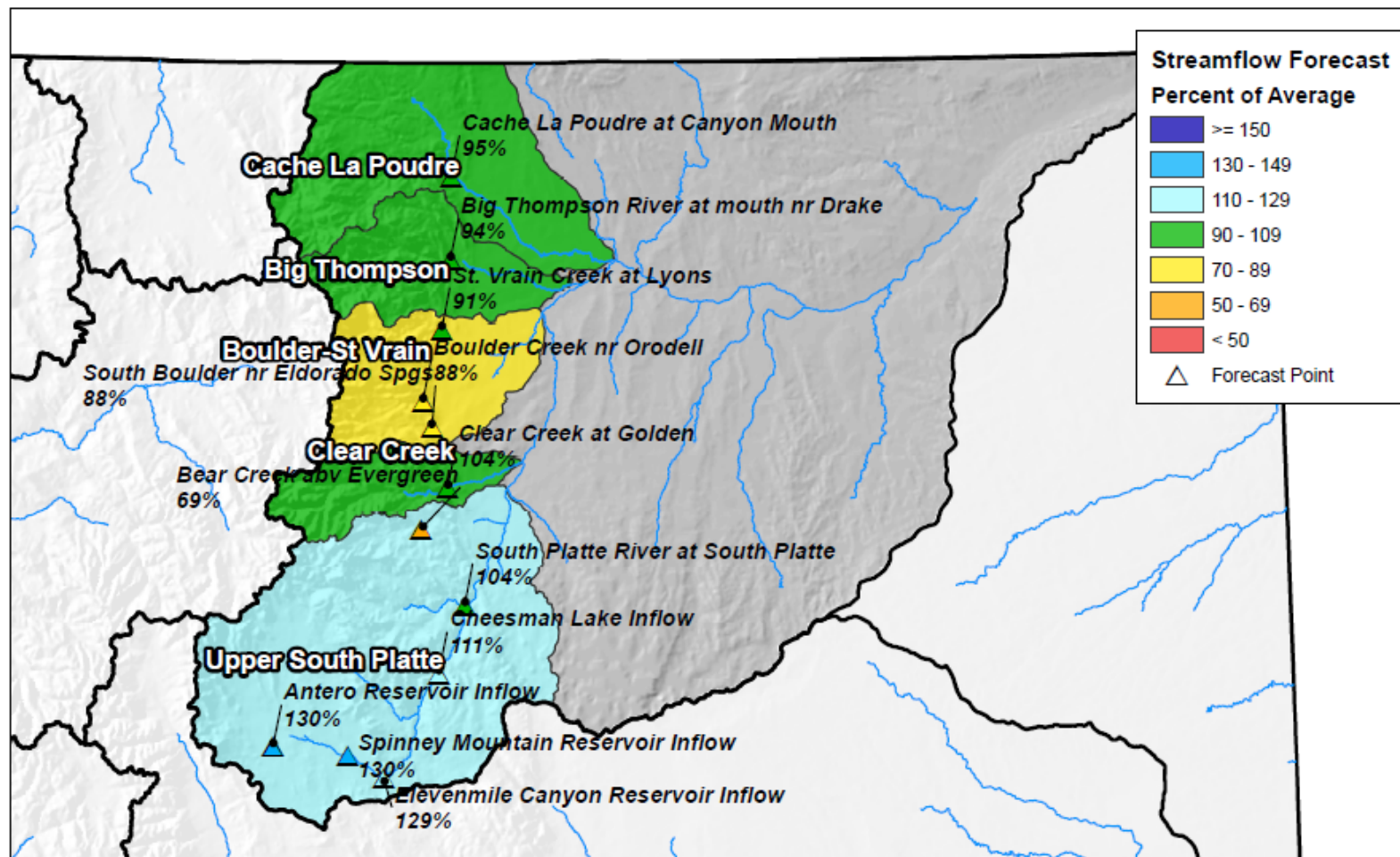
South Platte River Basin High/Low Year-to-Date Precipitation Summary

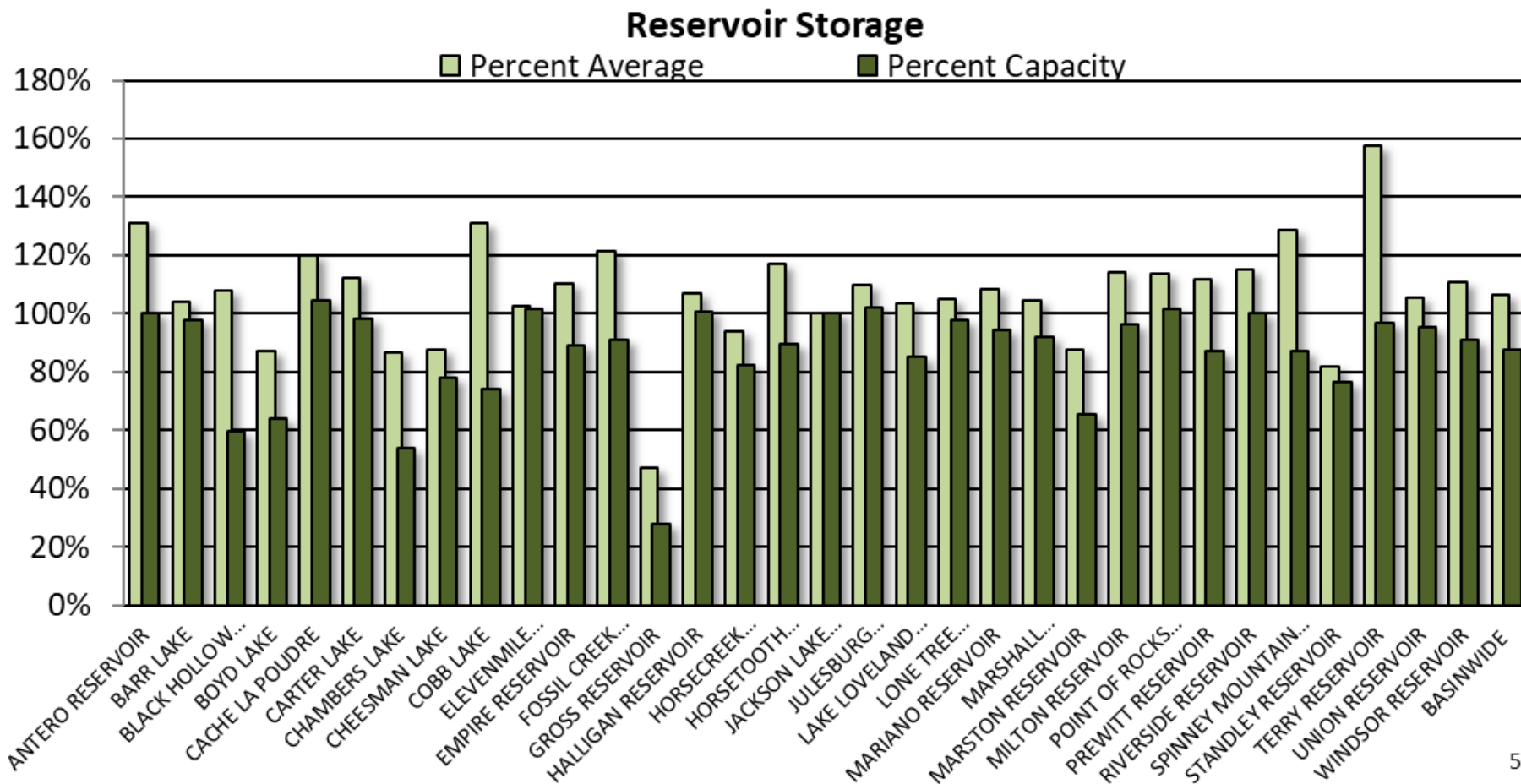
Based on Provisional SNOTEL data as of Jun 24, 2019



South Platte River Basin Streamflow Forecast Summary

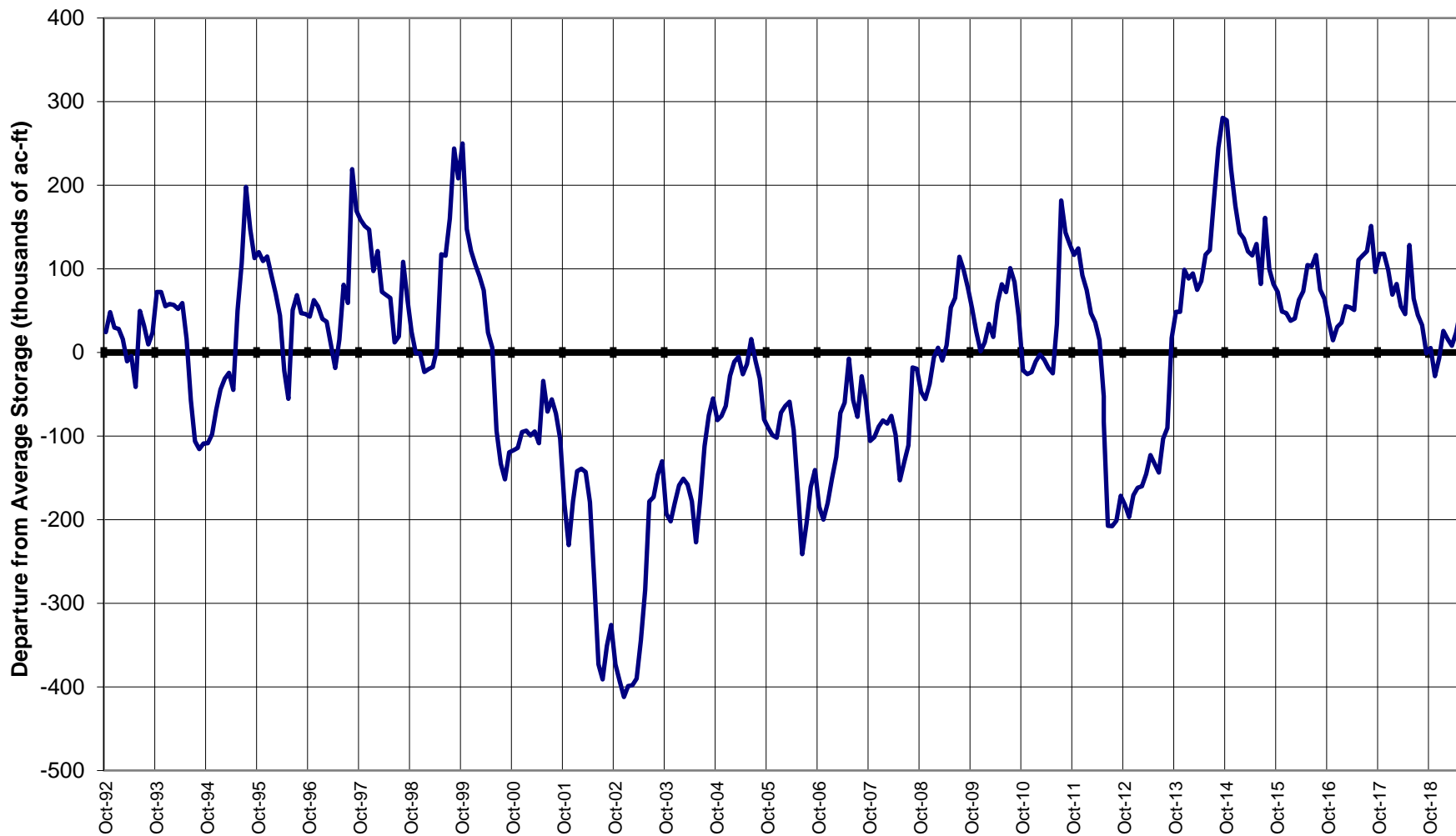
May 1, 2019





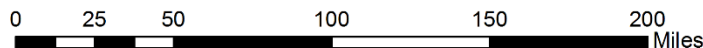
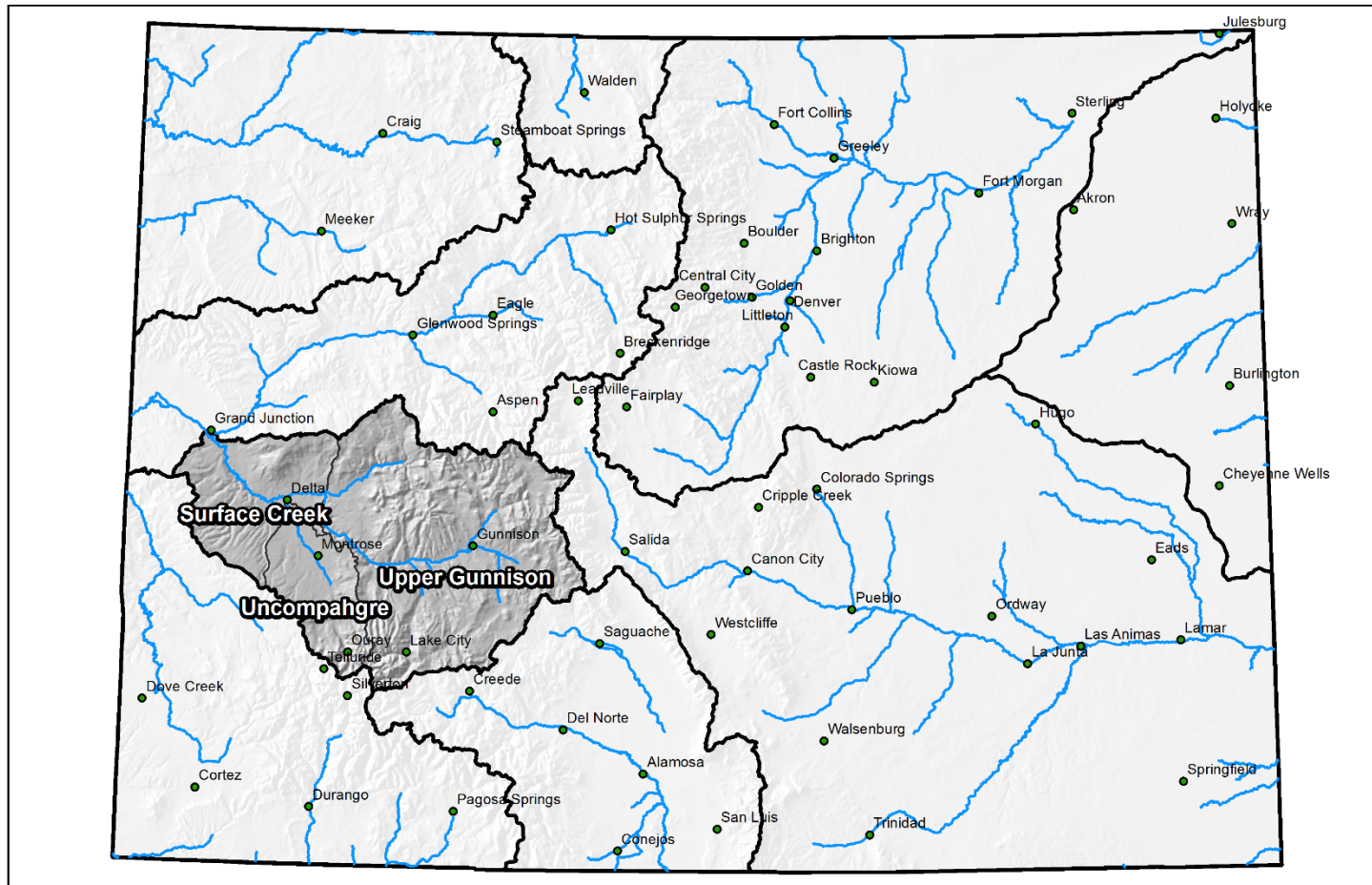


SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

Gunnison River Basin





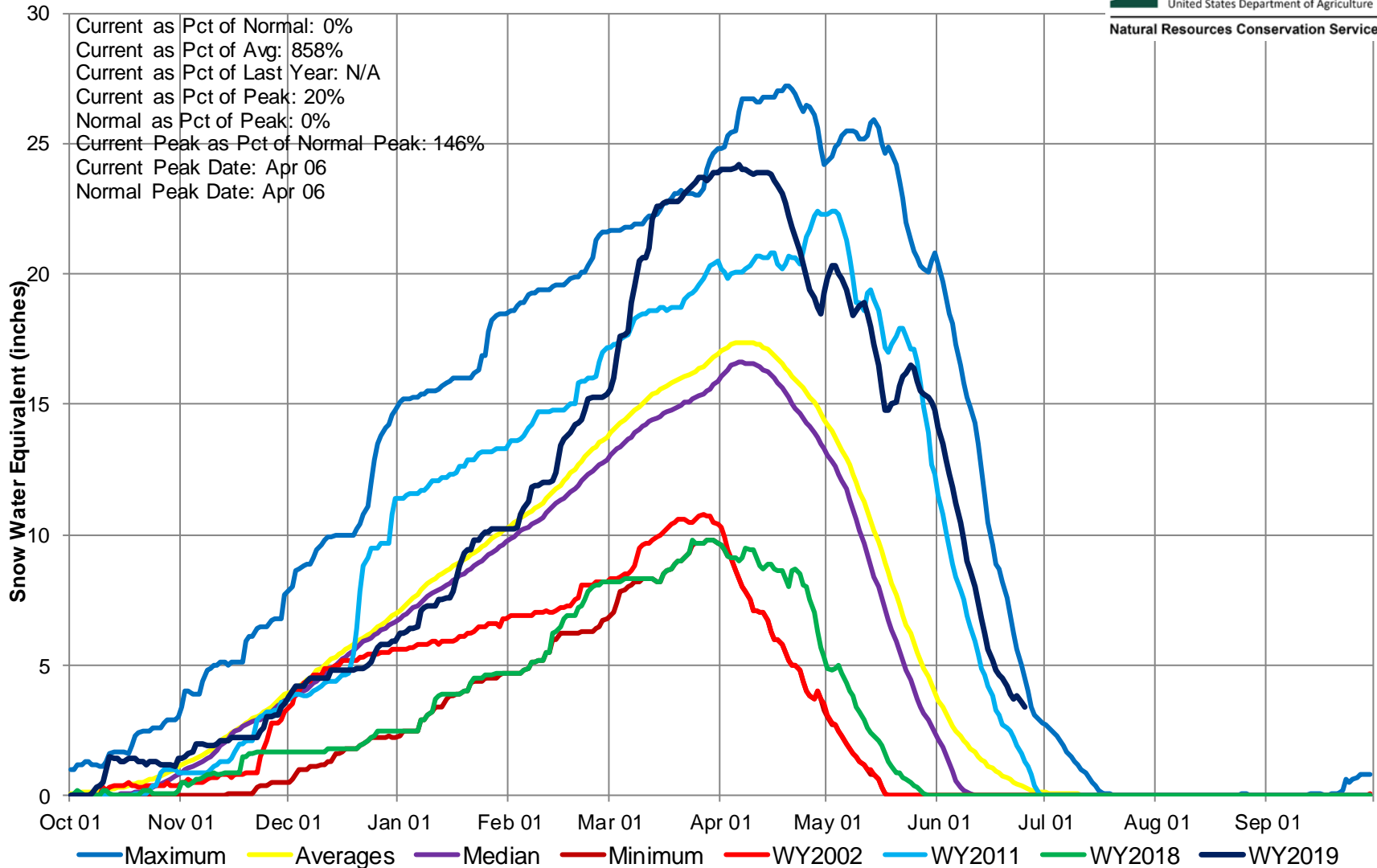
Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



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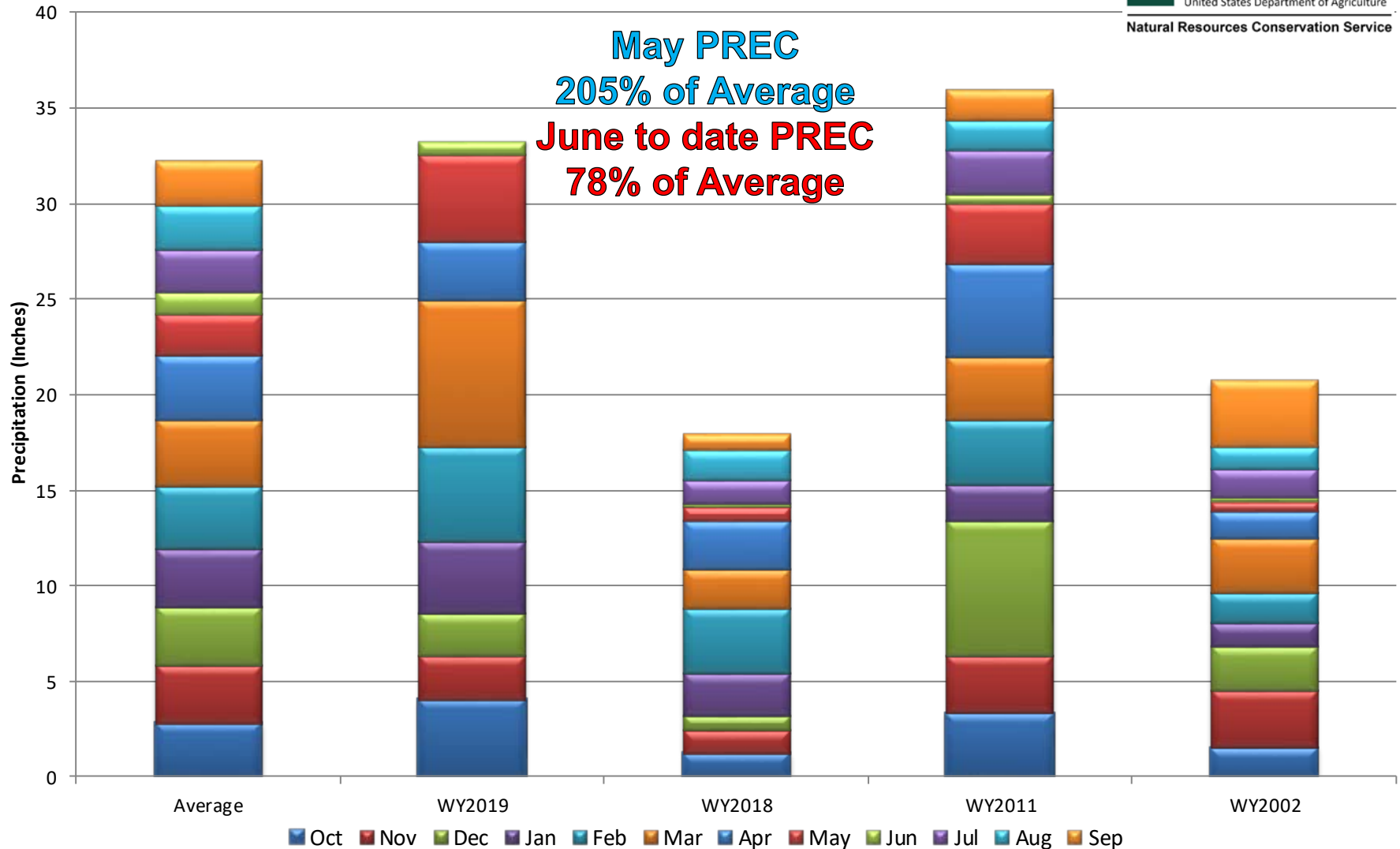
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



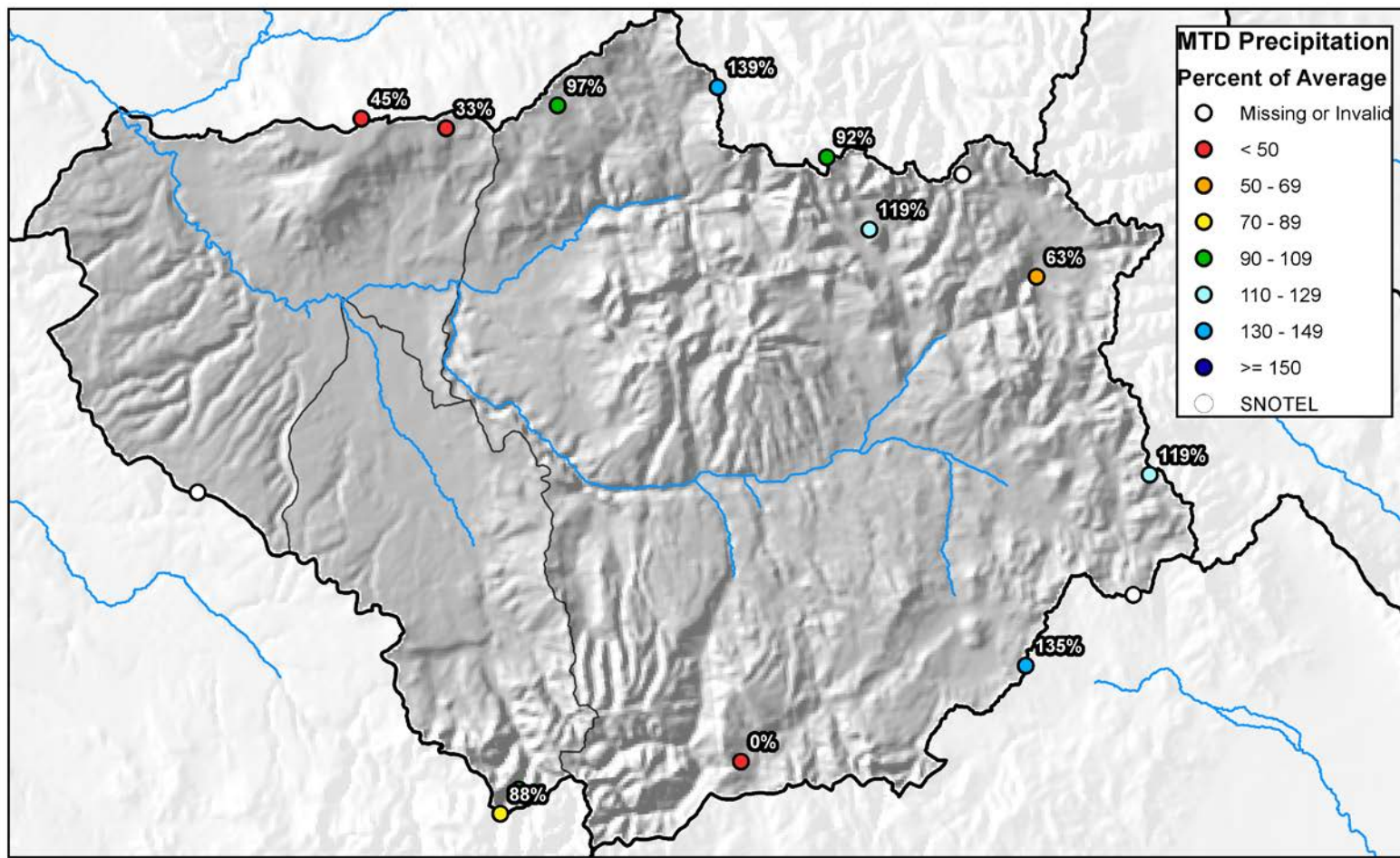
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Gunnison River Basin Month to Date Precipitation Summary

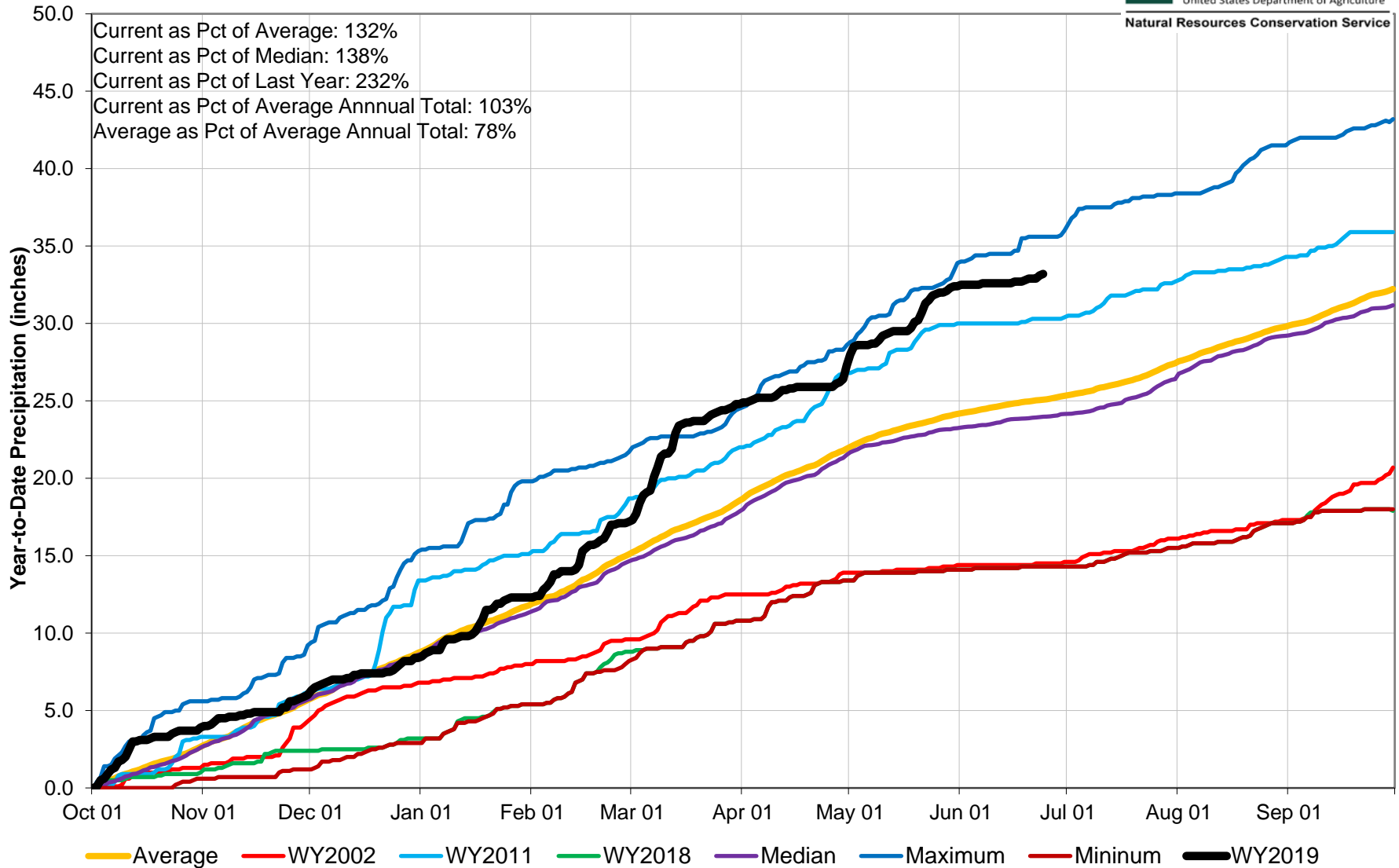
Current as of Jun 24, 2019



0 5 10 20 30 40 Miles

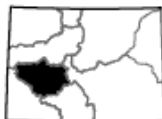
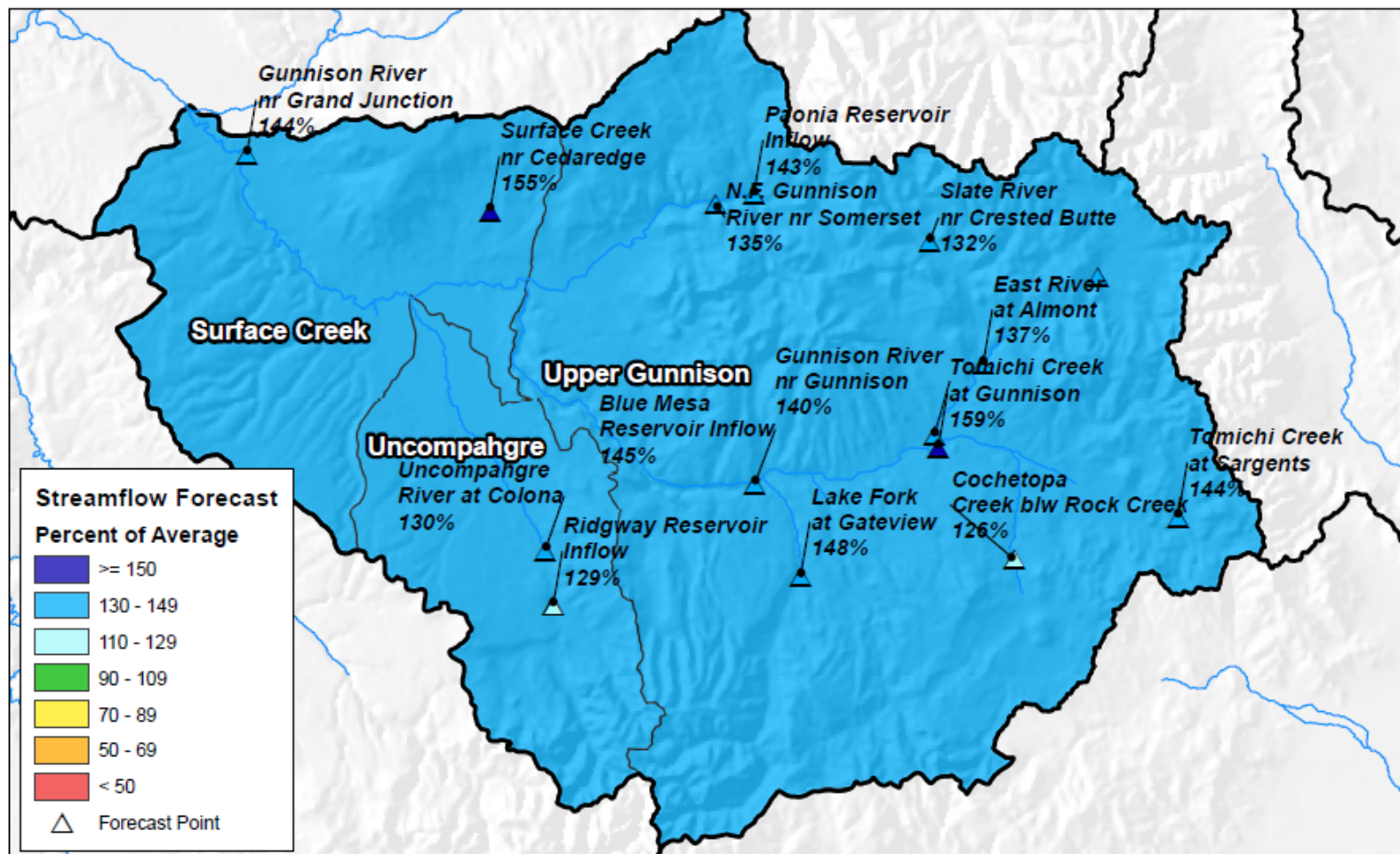
Gunnison River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jun 24, 2019



Gunnison River Basin Water Supply Forecast Summary

May 1, 2019

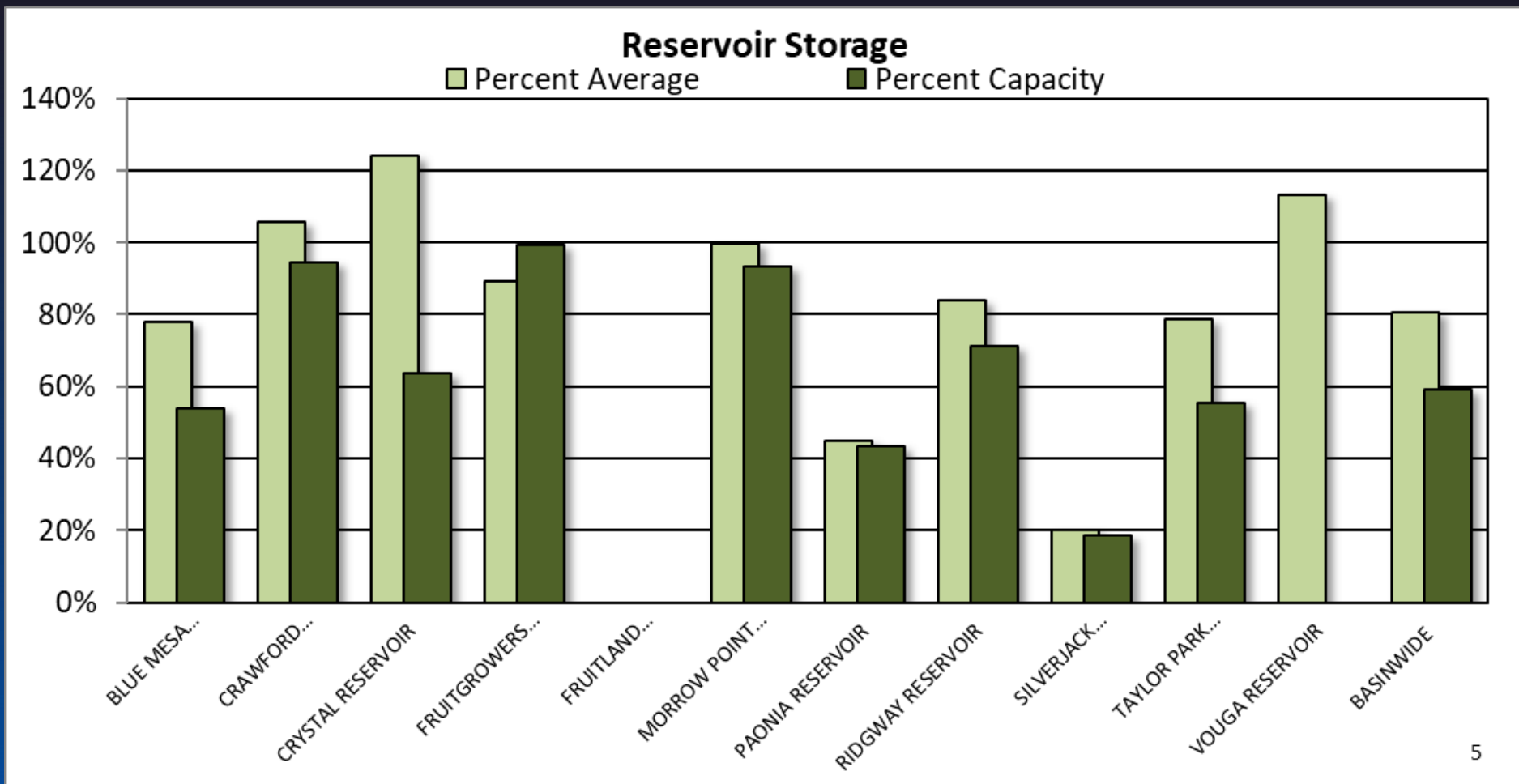


0 5 10 20 30 40 Miles

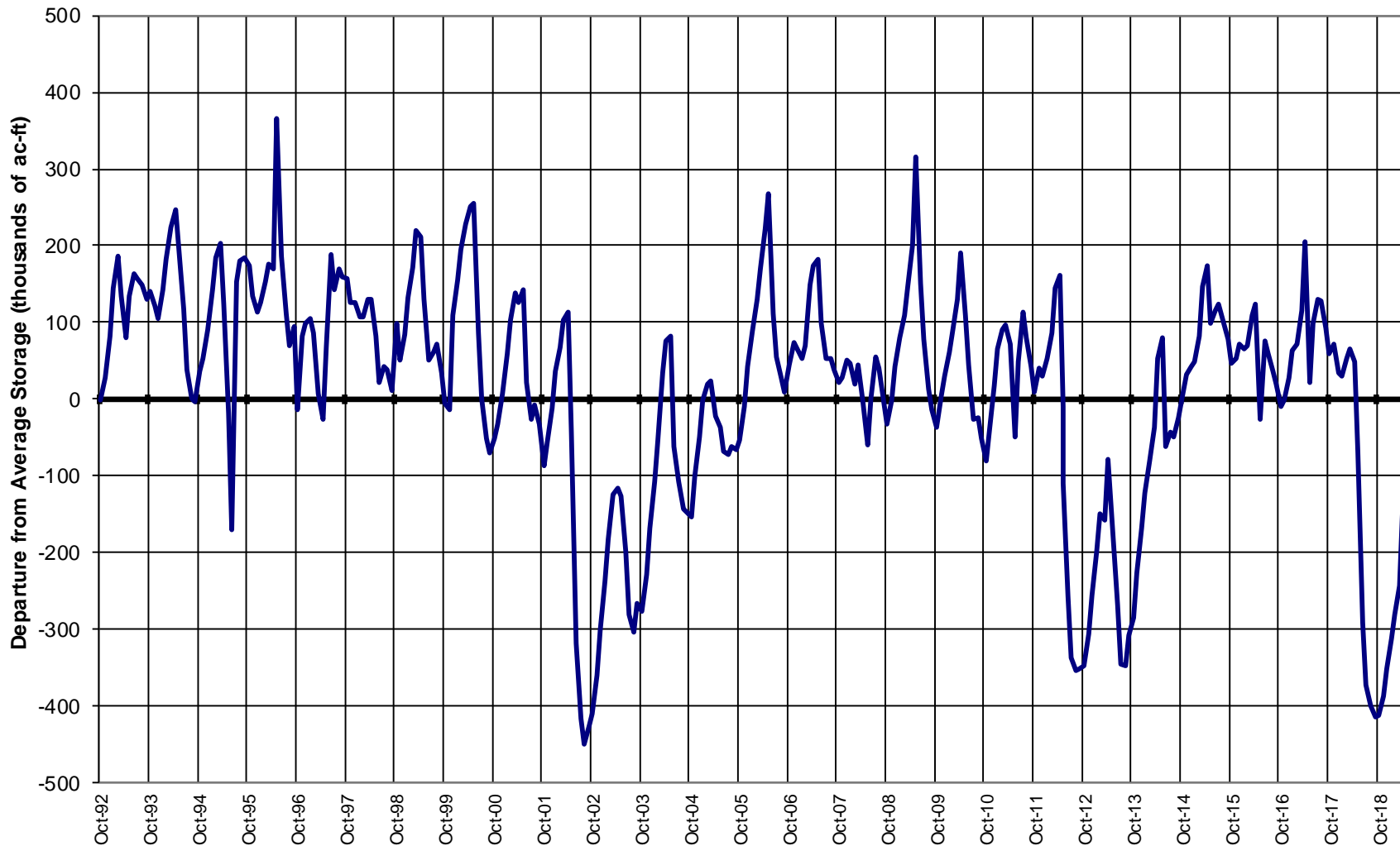


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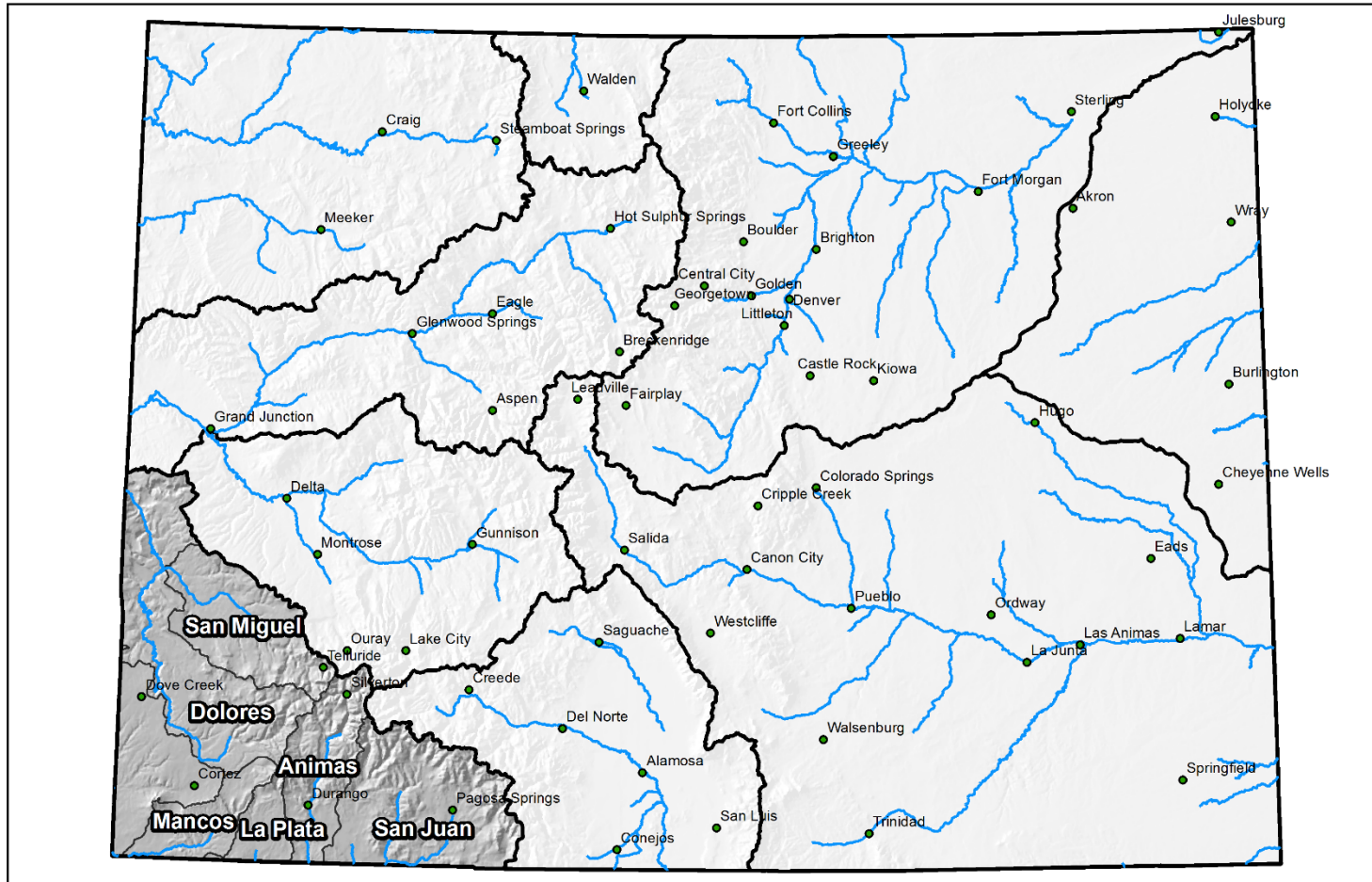


GUNNISON RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

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



0 25 50 100 150 200 Miles



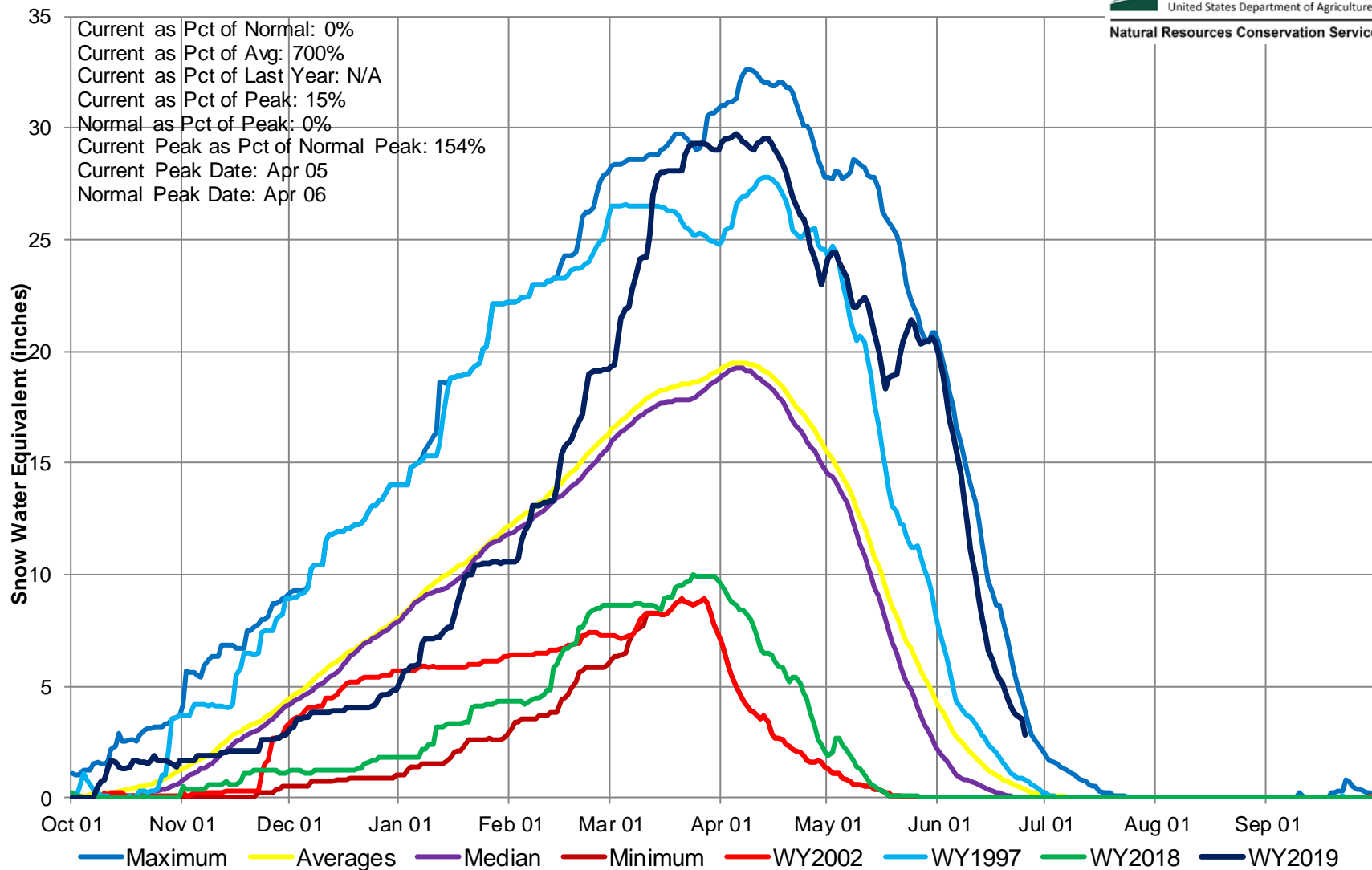
San Miguel, Dolores, Animas and San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



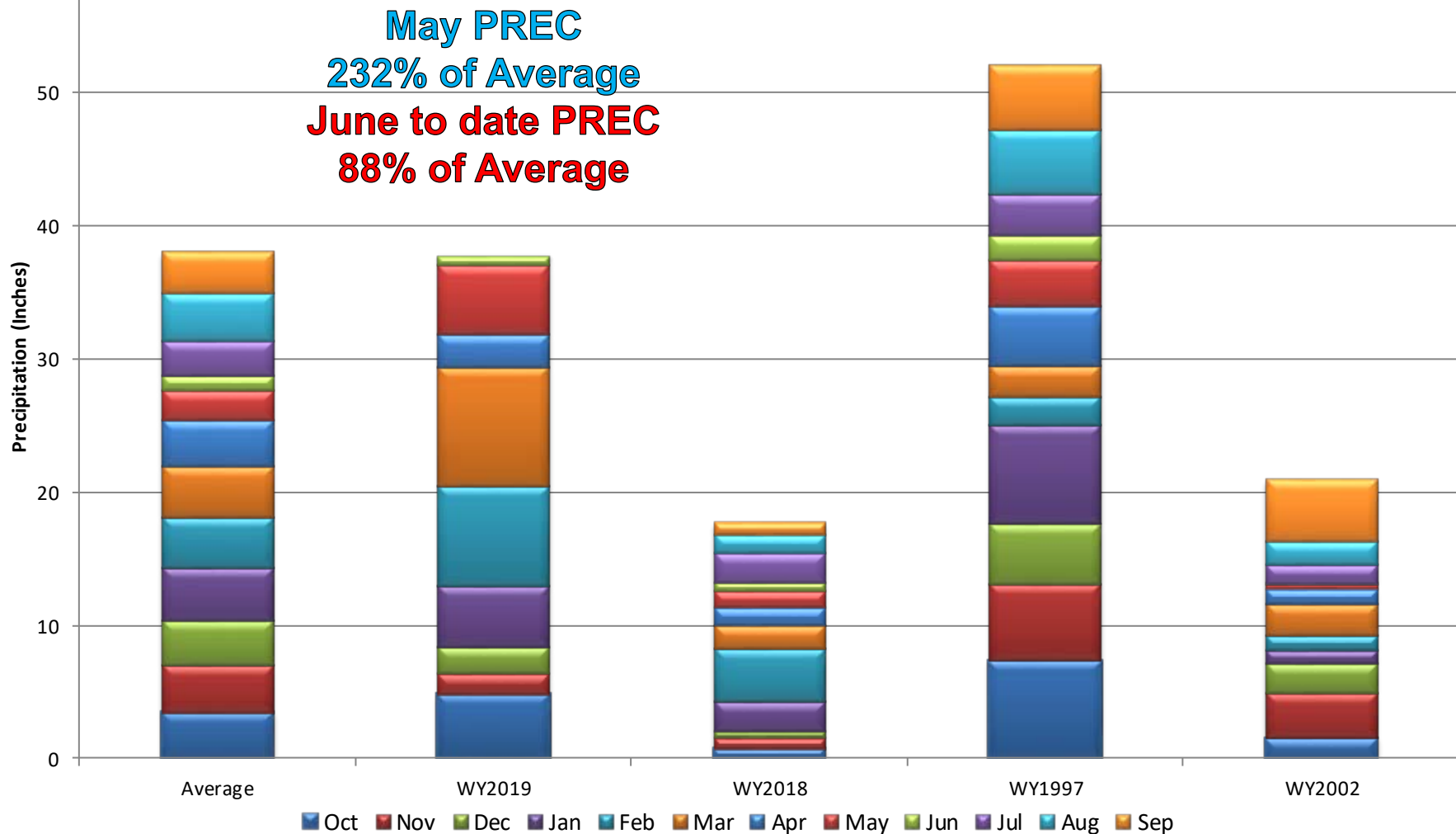
United States Department of Agriculture

Natural Resources Conservation Service



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

Based on Provisional SNOTEL data as of Jun 25, 2019

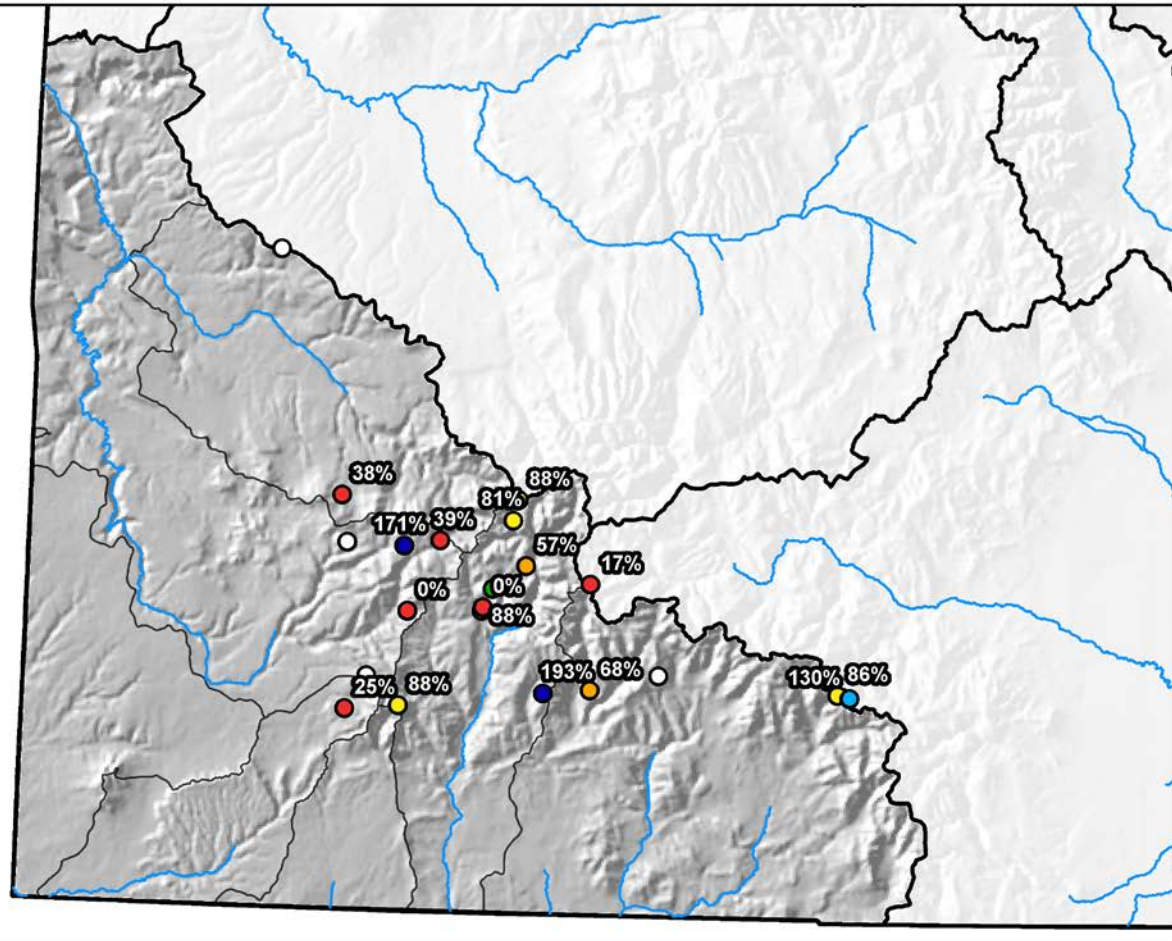


San Miguel, Dolores, Animas, and San Juan River Basins Month to Date Precipitation Summary

Current as of Jun 24, 2019

MTD Precipitation Percent of Average

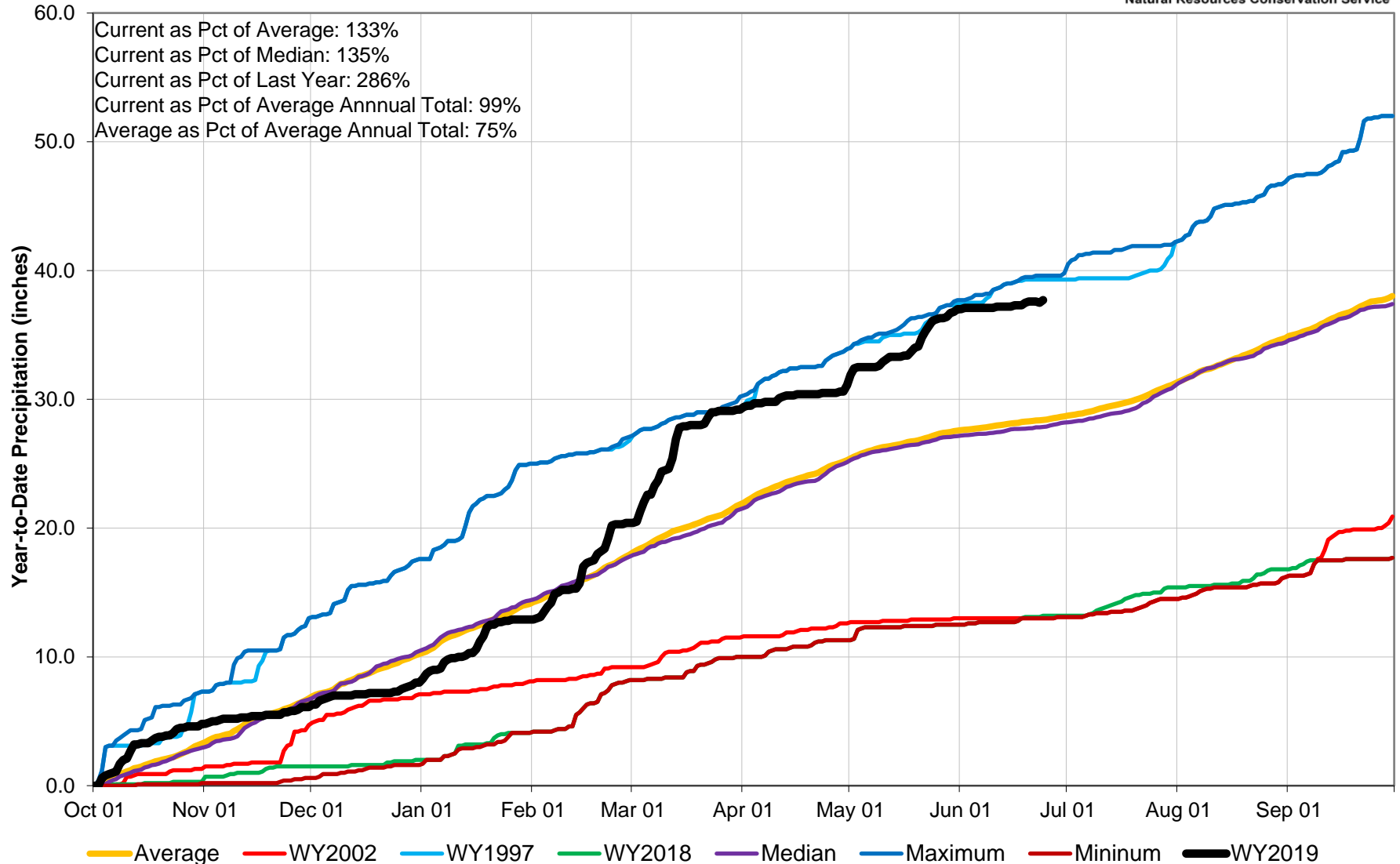
- Missing or Invalid
- < 50
- 50 - 69
- 70 - 89
- 90 - 109
- 110 - 129
- 130 - 149
- ≥ 150
- SNOTEL



0 10 20 40 60 80 Miles

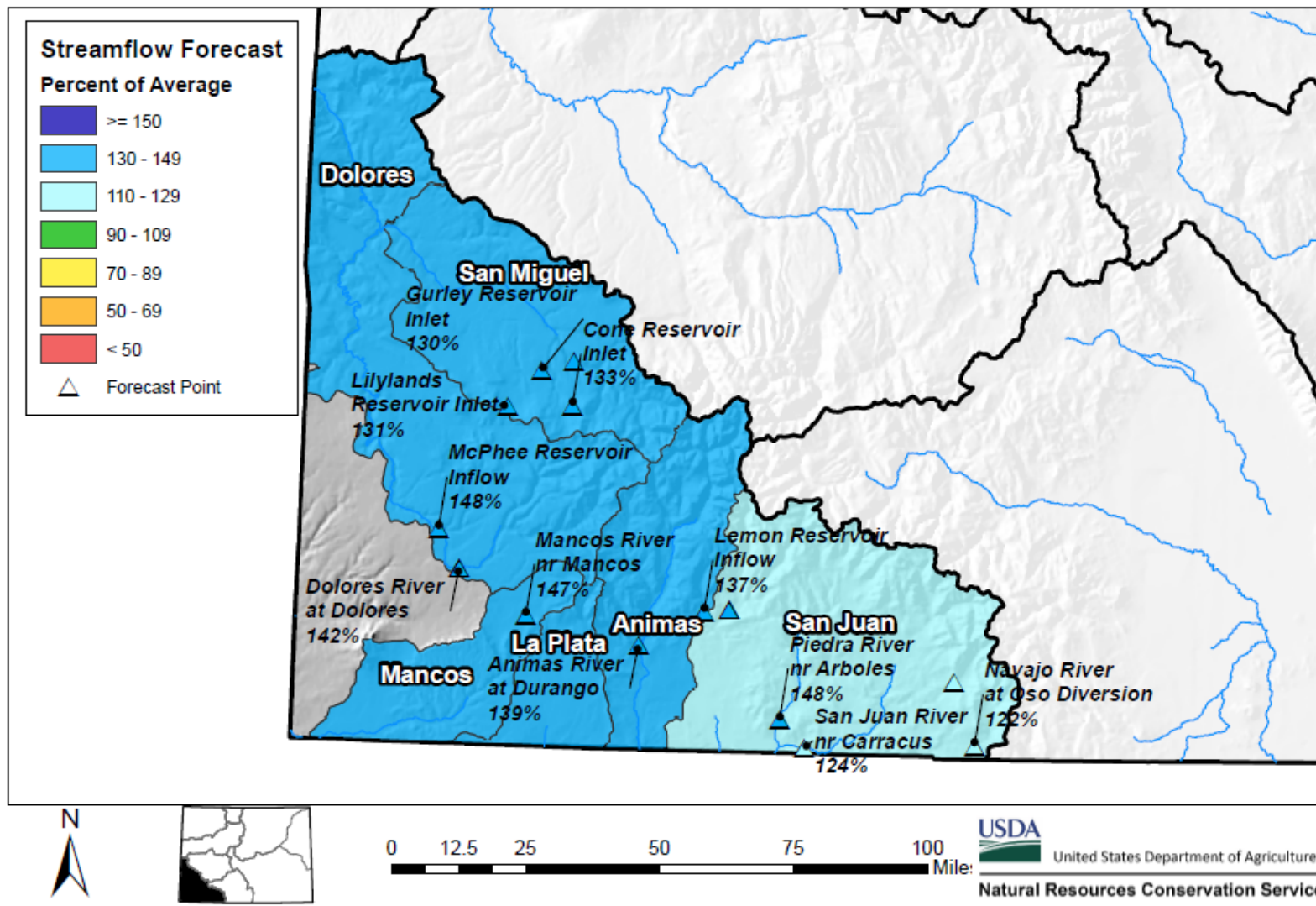
San Miguel, Dolores, Animas and San Juan River Basins High/Low Year-to-Date Precipitation Summary

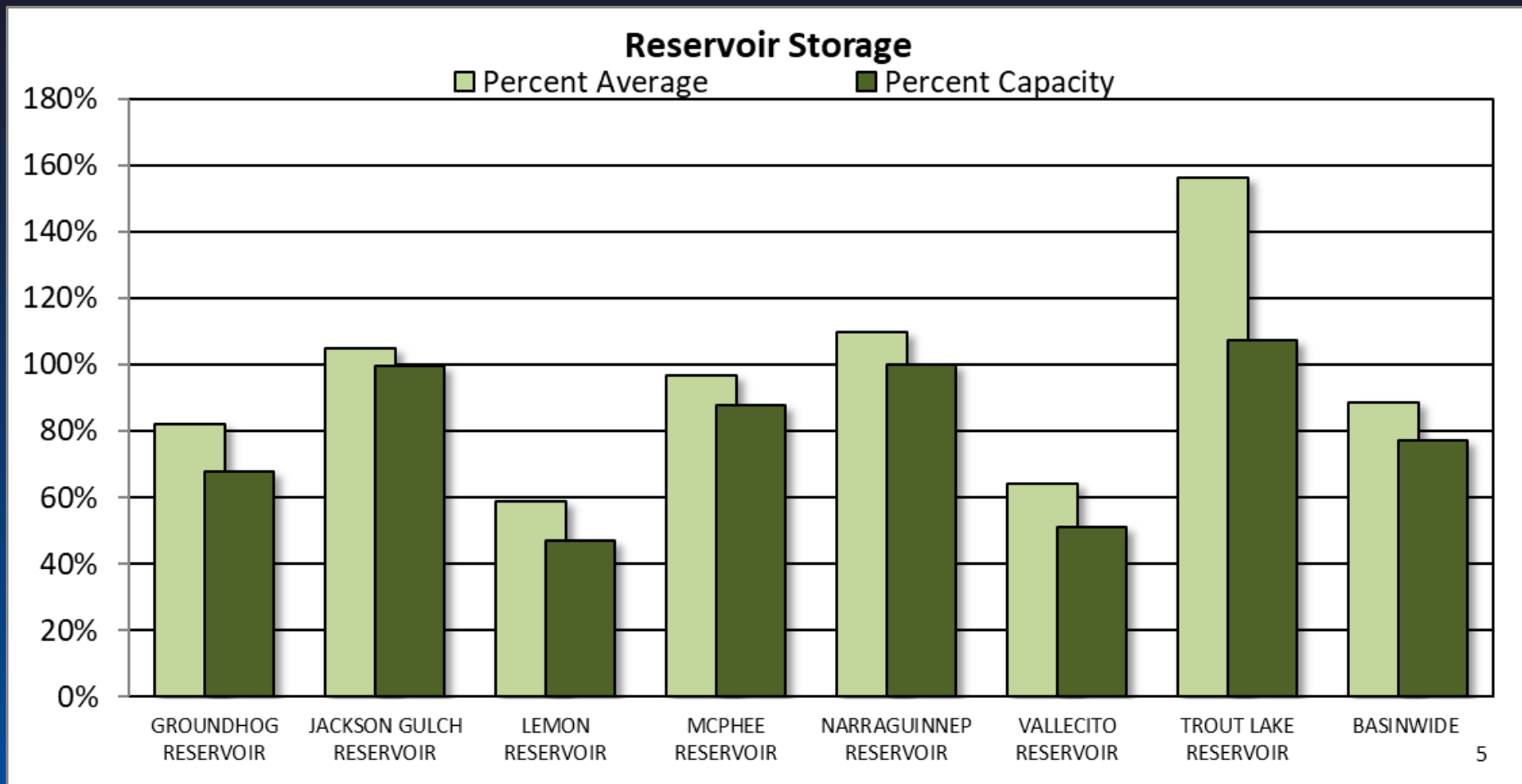
Based on Provisional SNOTEL data as of Jun 24, 2019



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

May 1, 2019



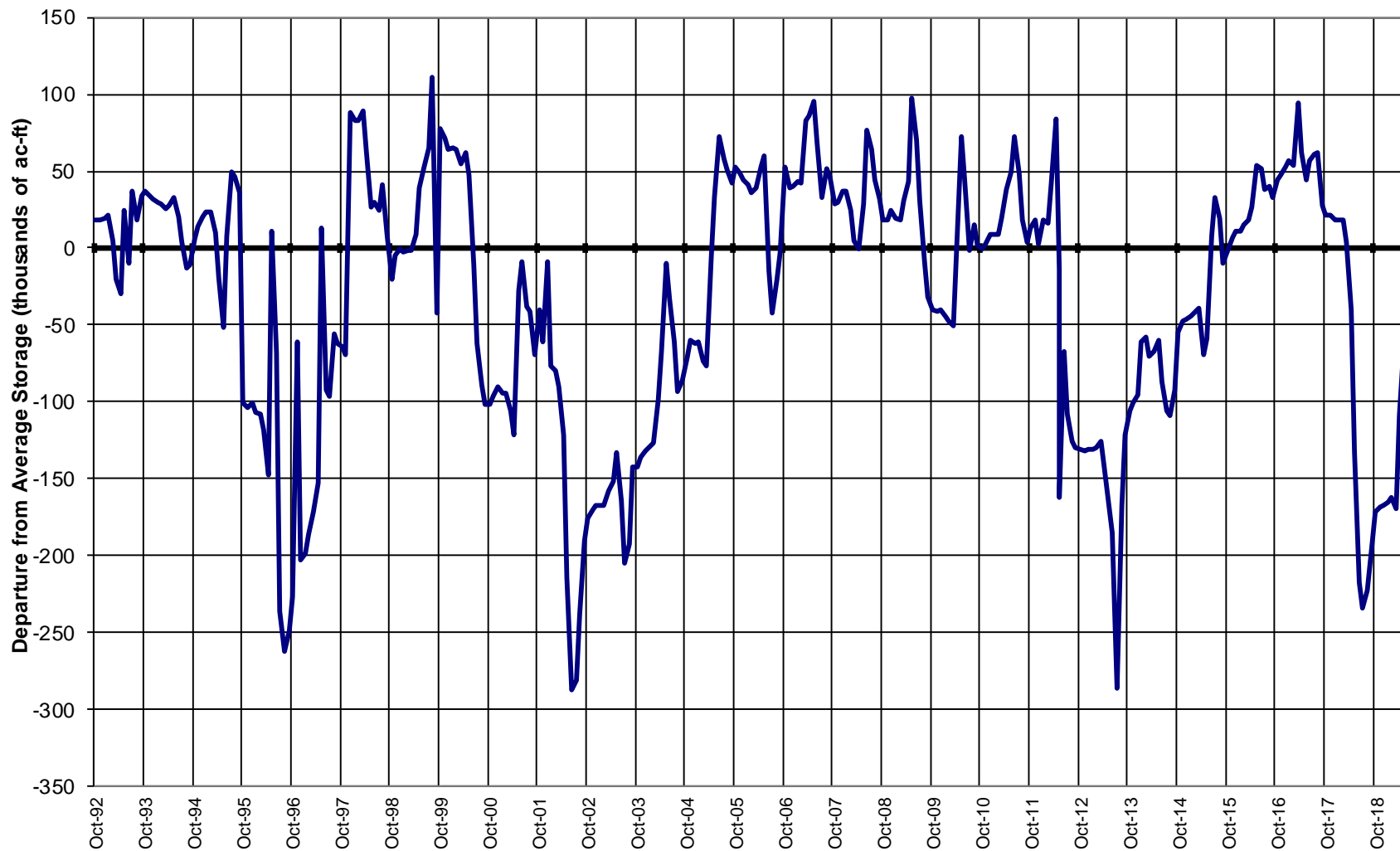




SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

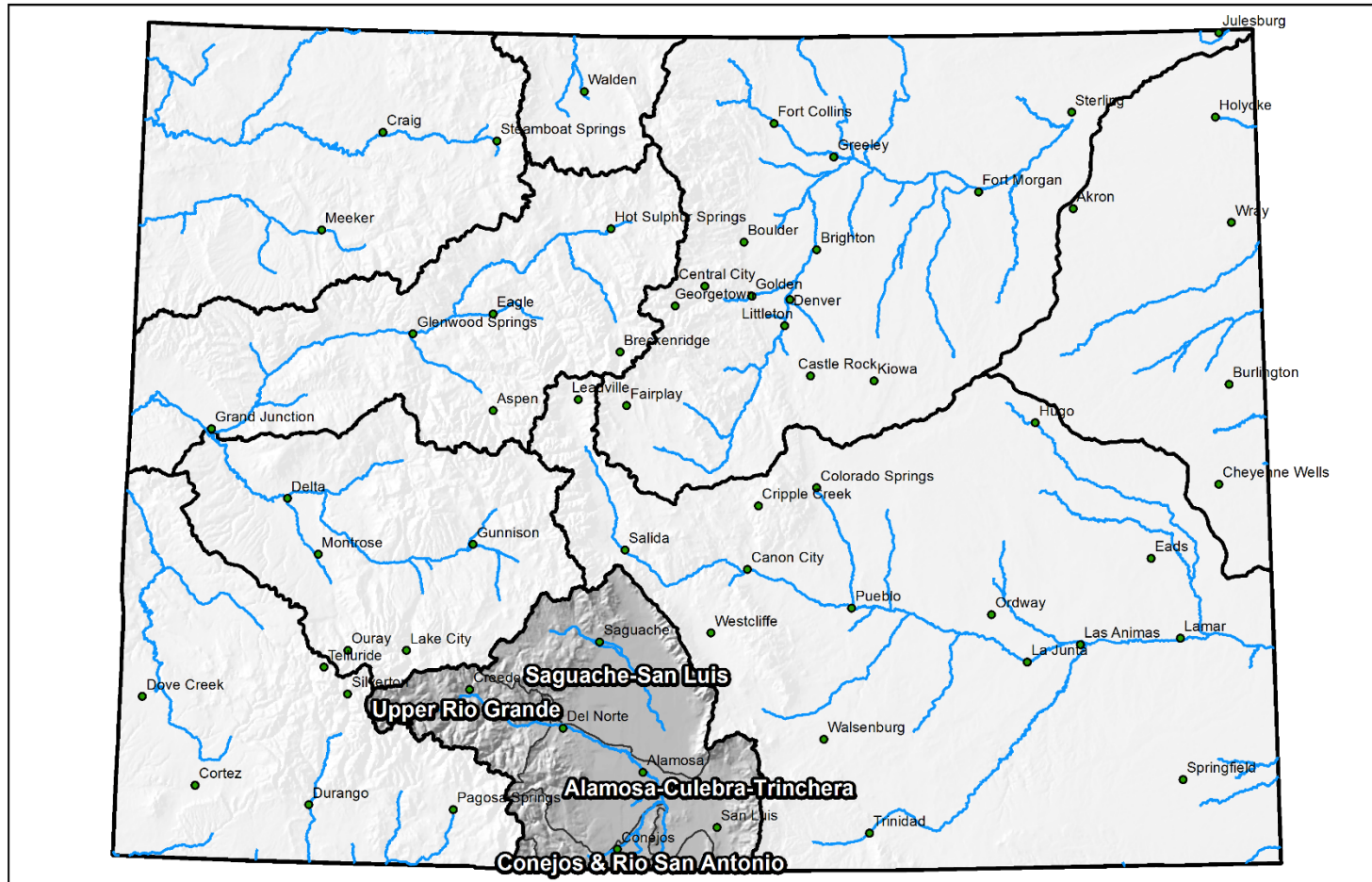
Reservoir Storage

Departure from Average



Major Basin Summary

Upper Rio Grande River Basin



0 25 50 100 150 200 Miles

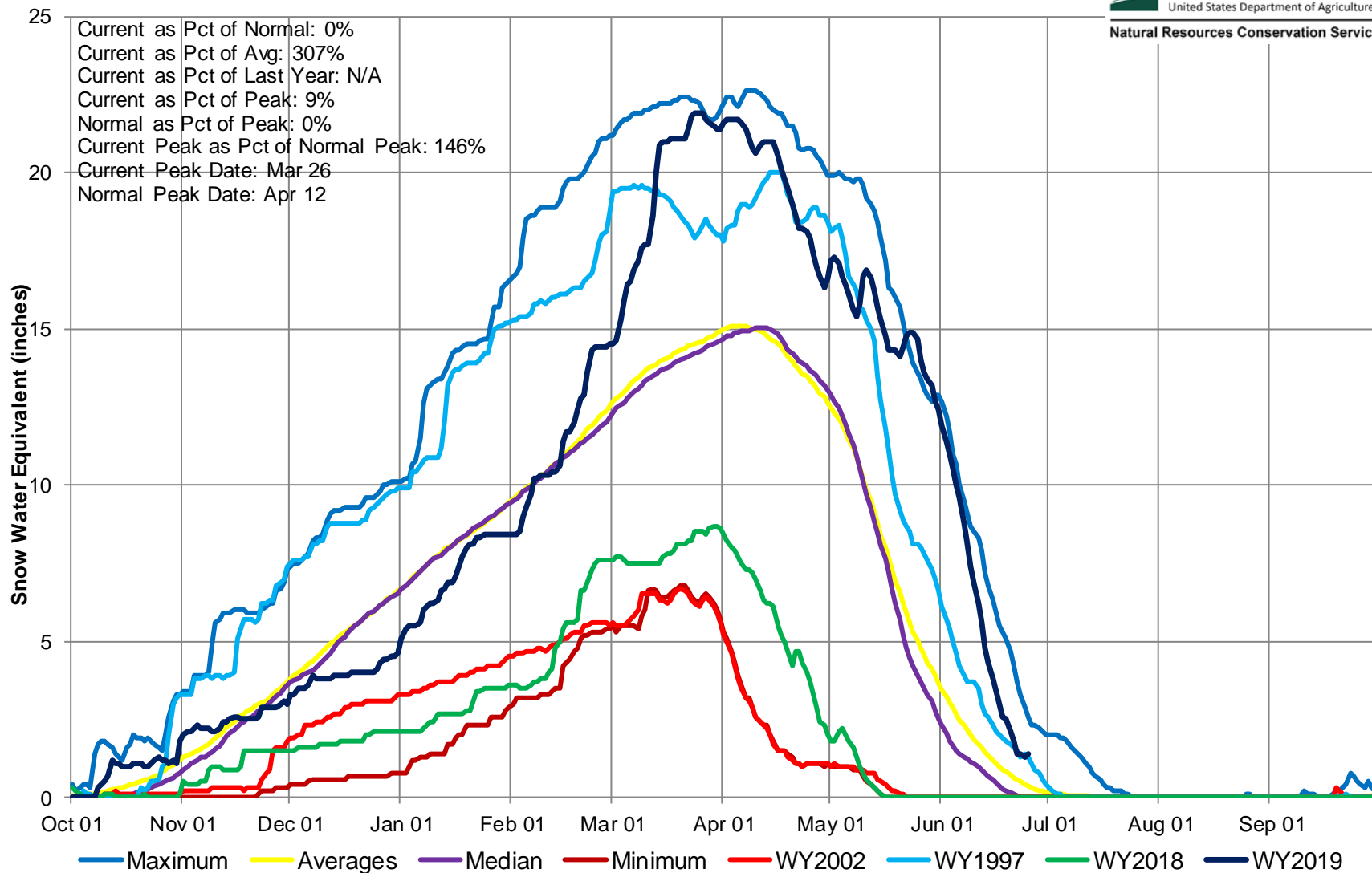
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



United States Department of Agriculture

Natural Resources Conservation Service



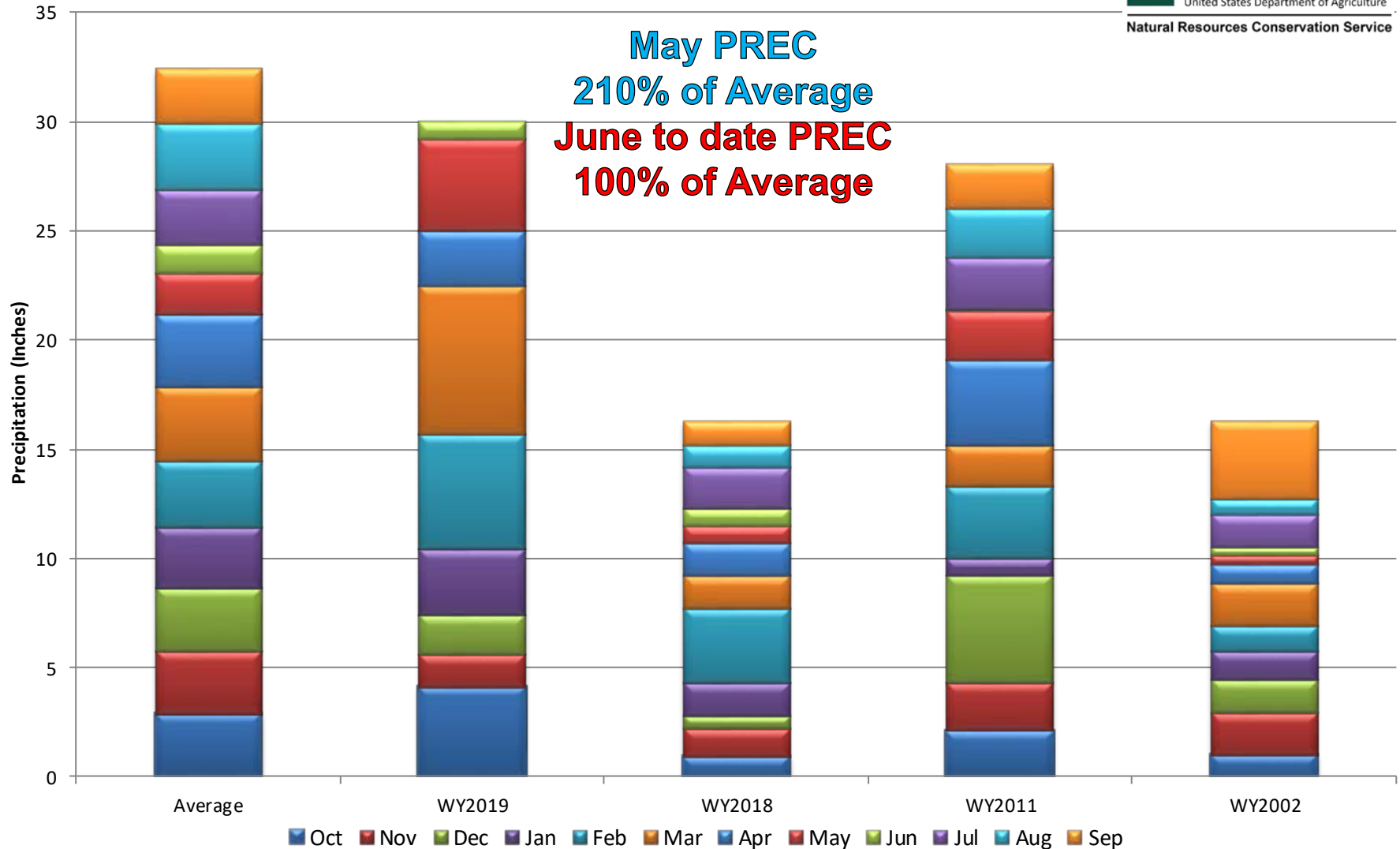
Upper Rio Grande River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



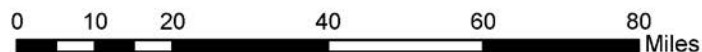
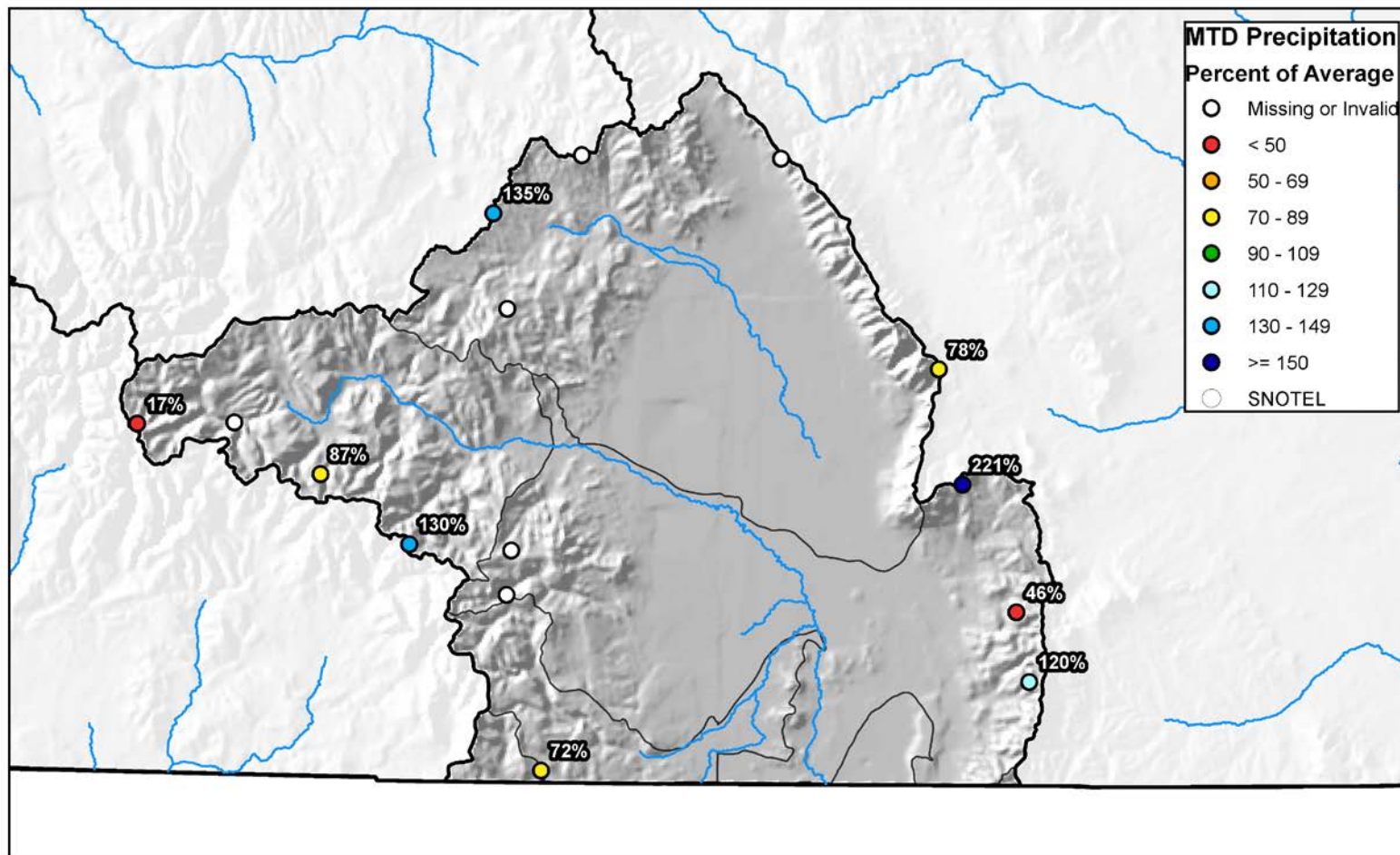
United States Department of Agriculture

Natural Resources Conservation Service



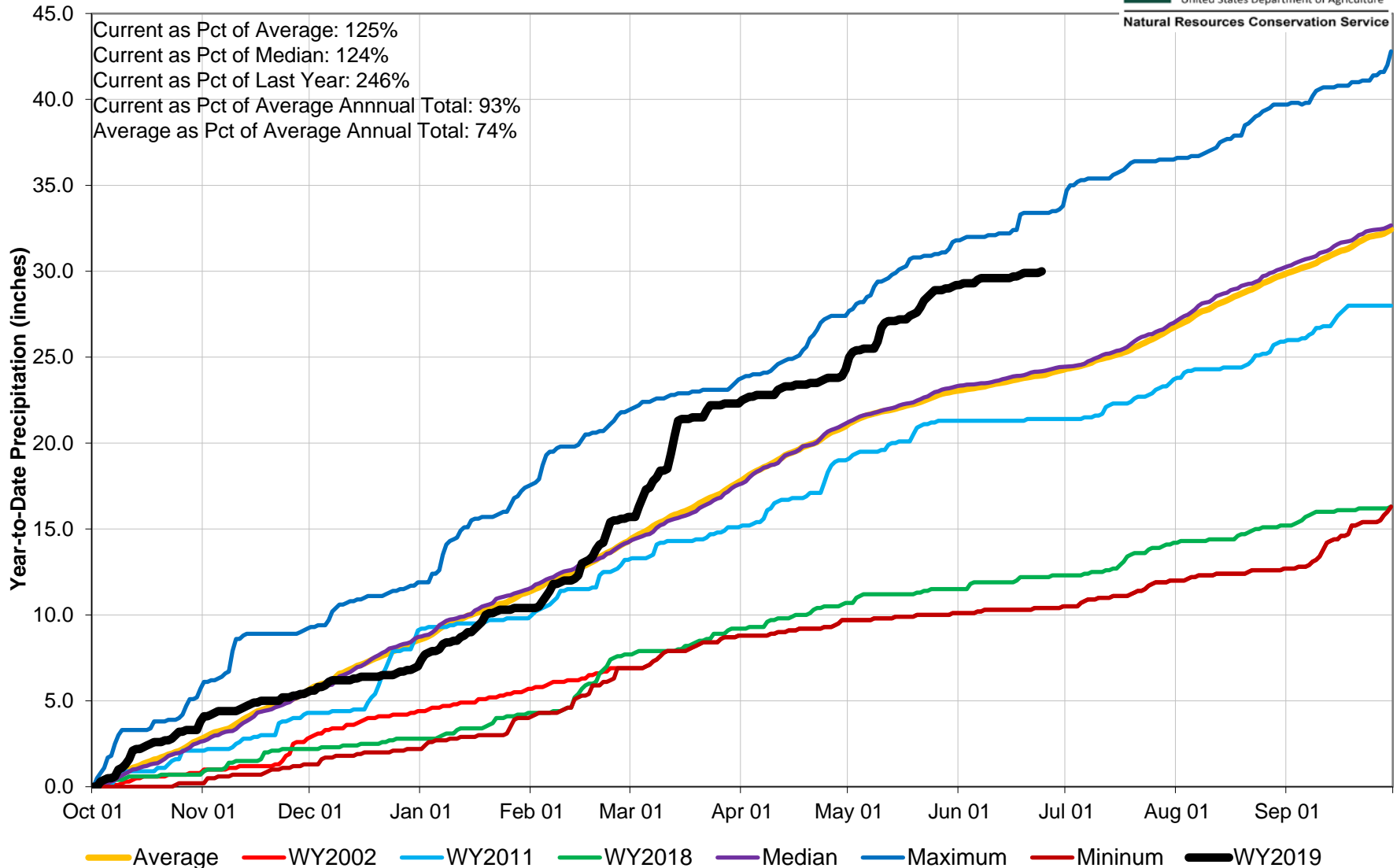
Upper Rio Grande River Basin Month to Date Precipitation Summary

Current as of Jun 24, 2019



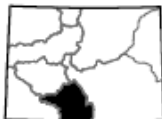
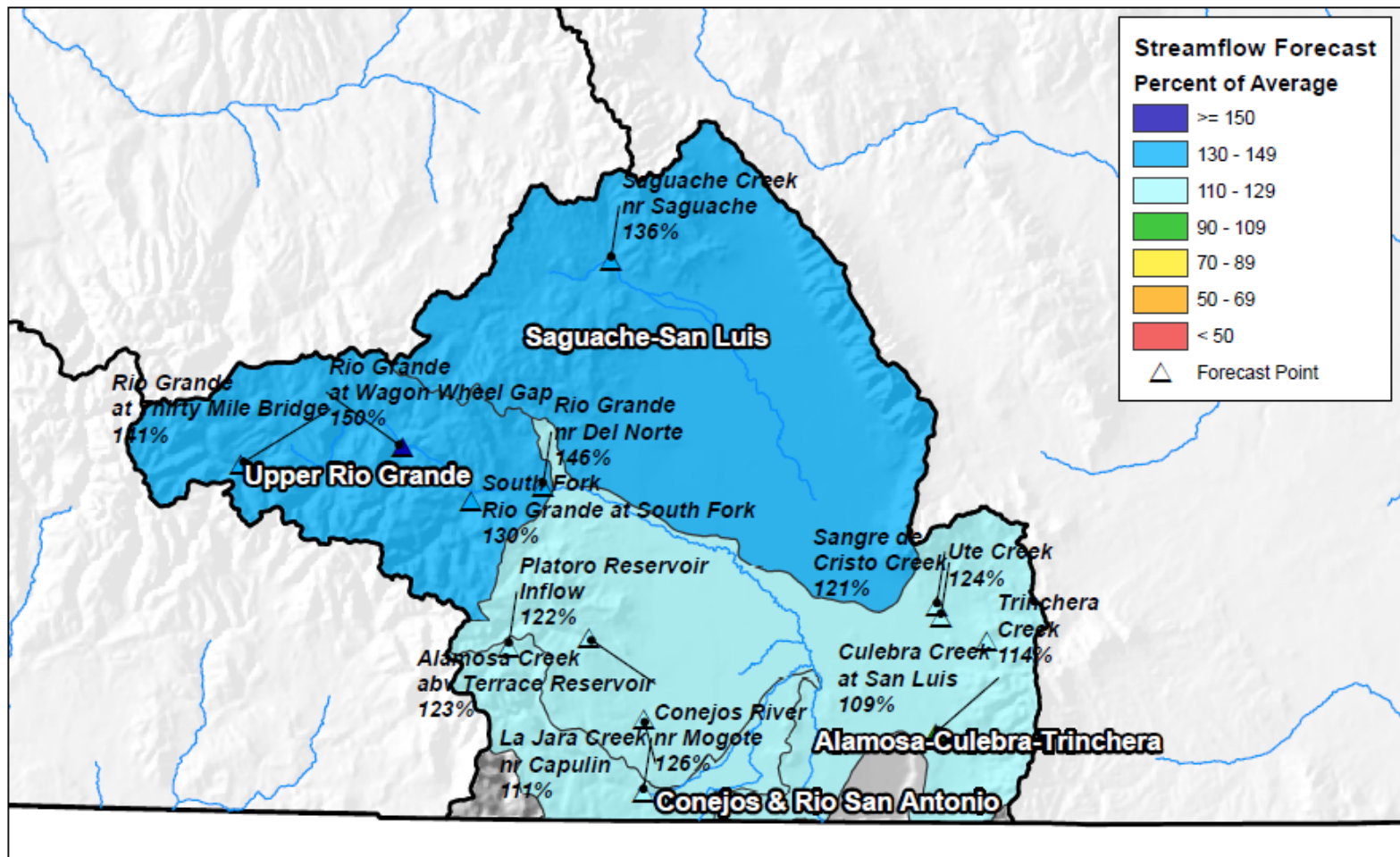
Upper Rio Grande River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jun 24, 2019

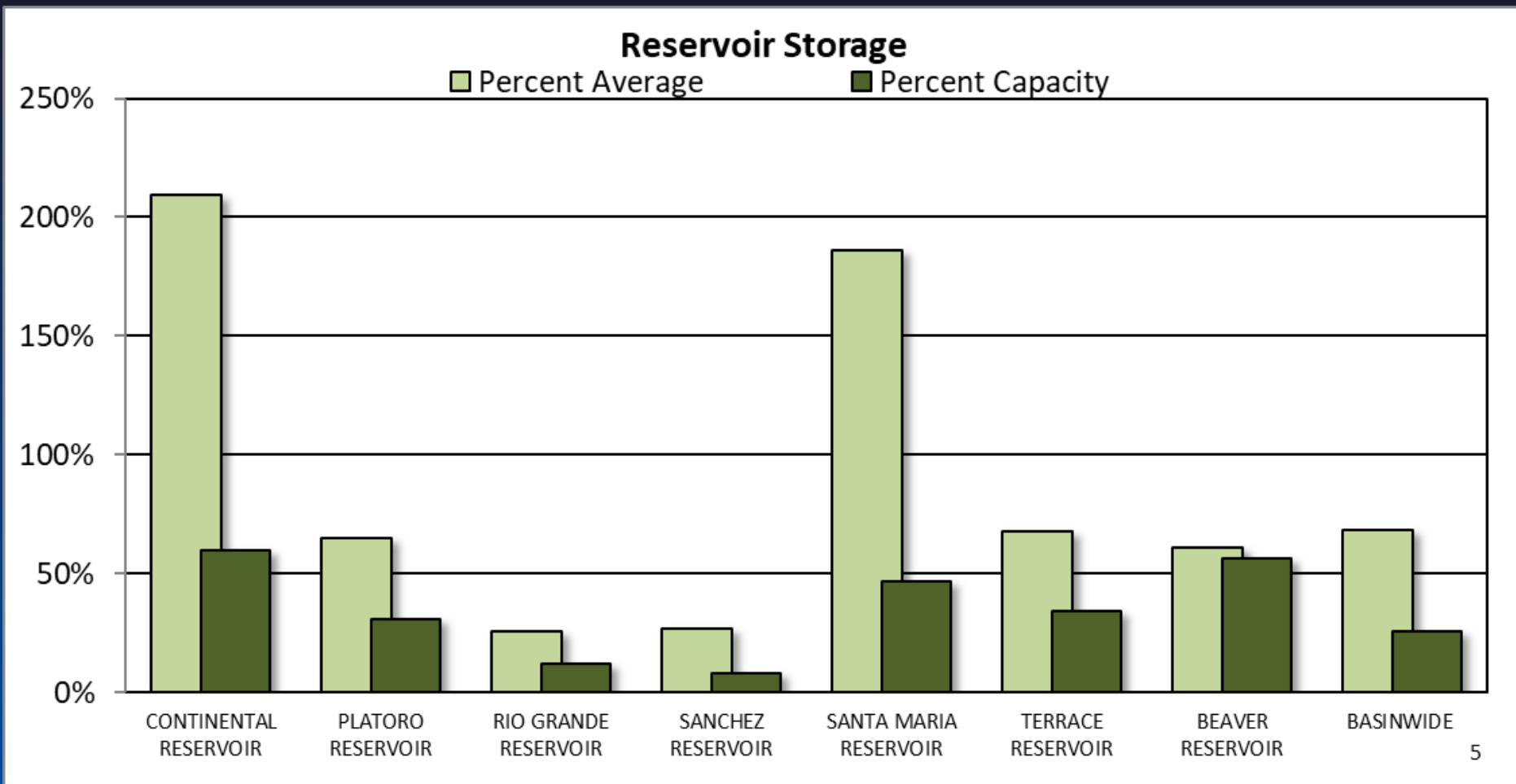


Upper Rio Grande River Basin Streamflow Forecast Summary

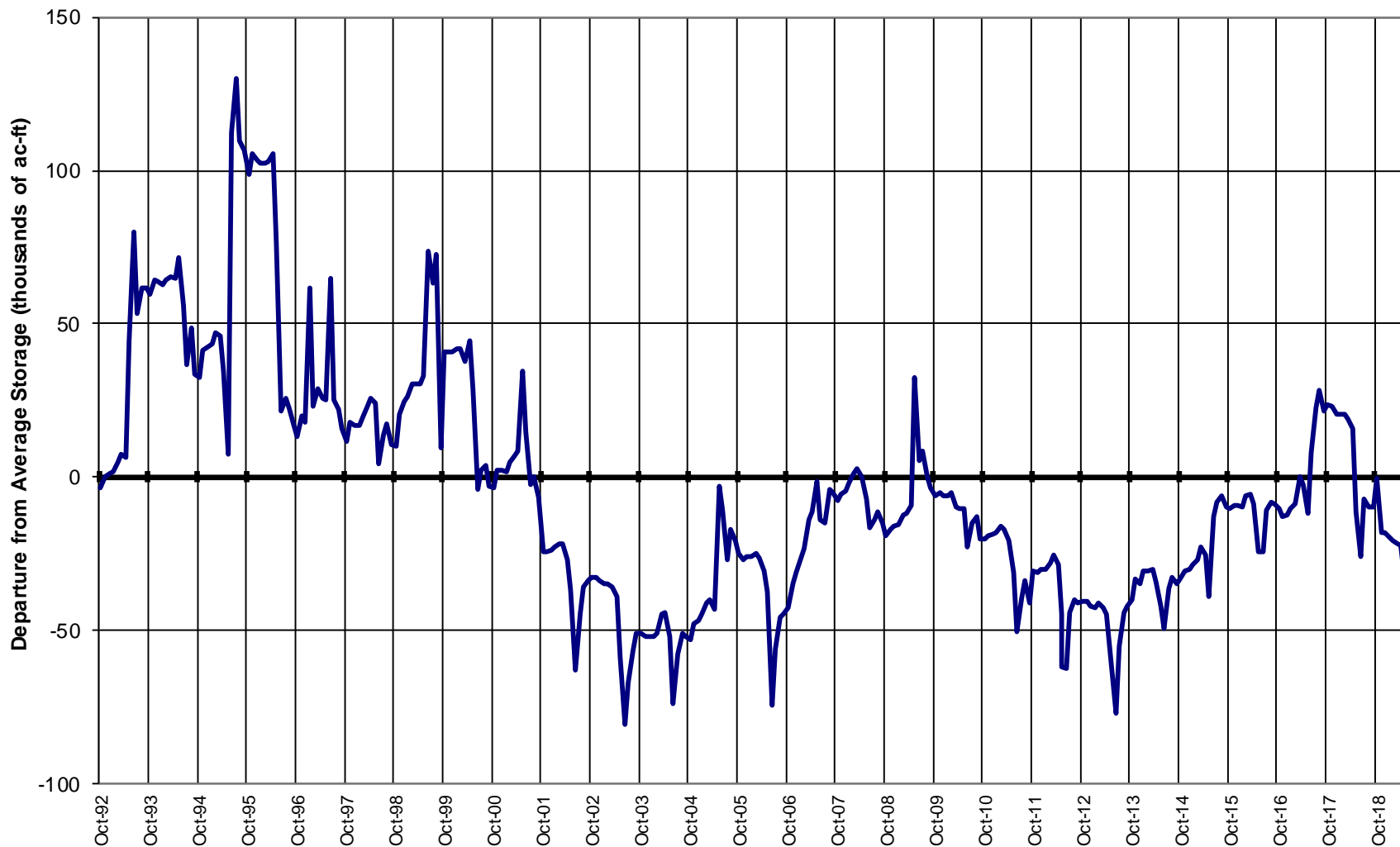
May 1, 2019



0 10 20 40 60 80 Miles

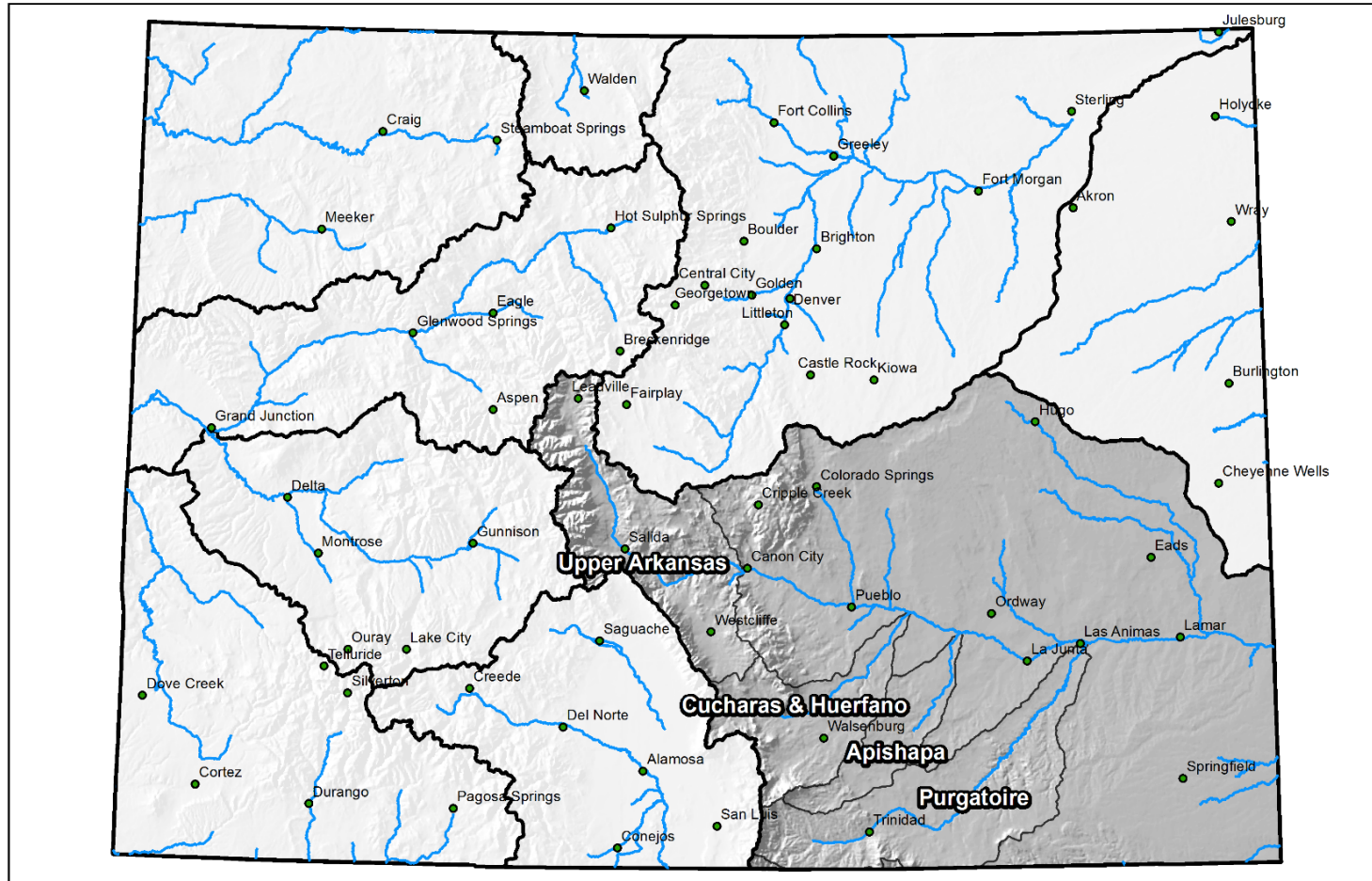


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



Major Basin Summary

Arkansas River Basin



0 25 50 100 150 200 Miles



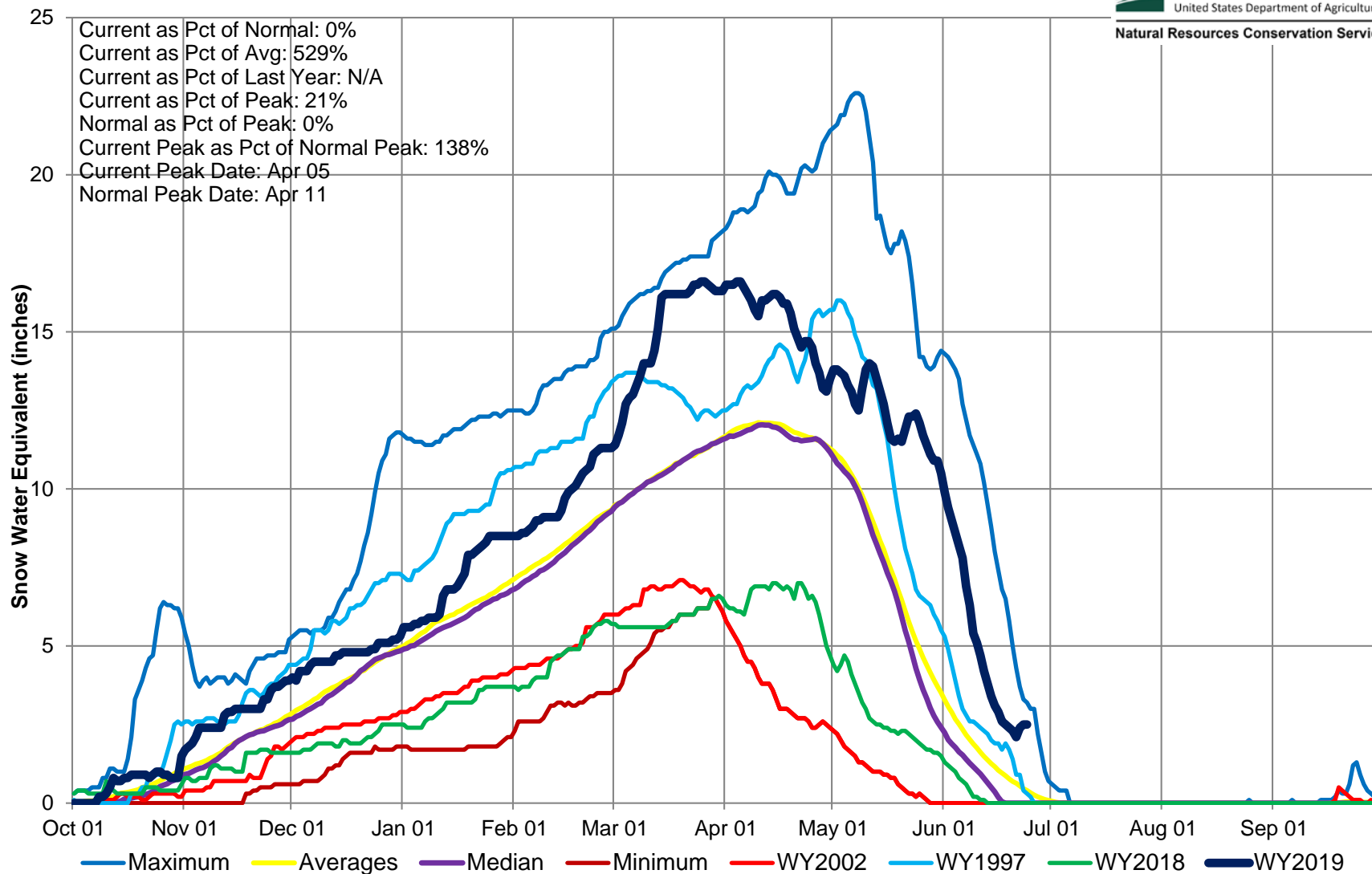
Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 24, 2019



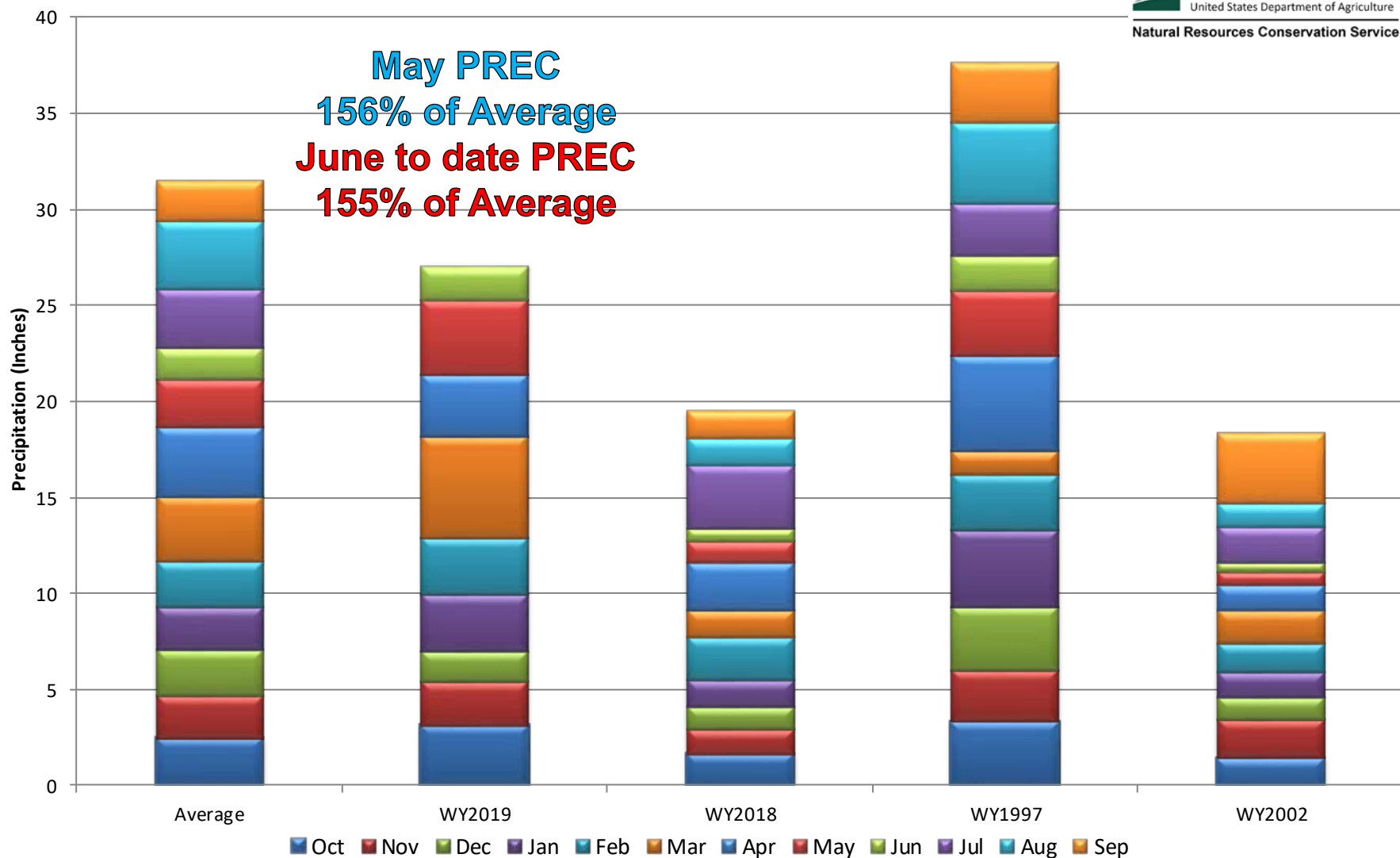
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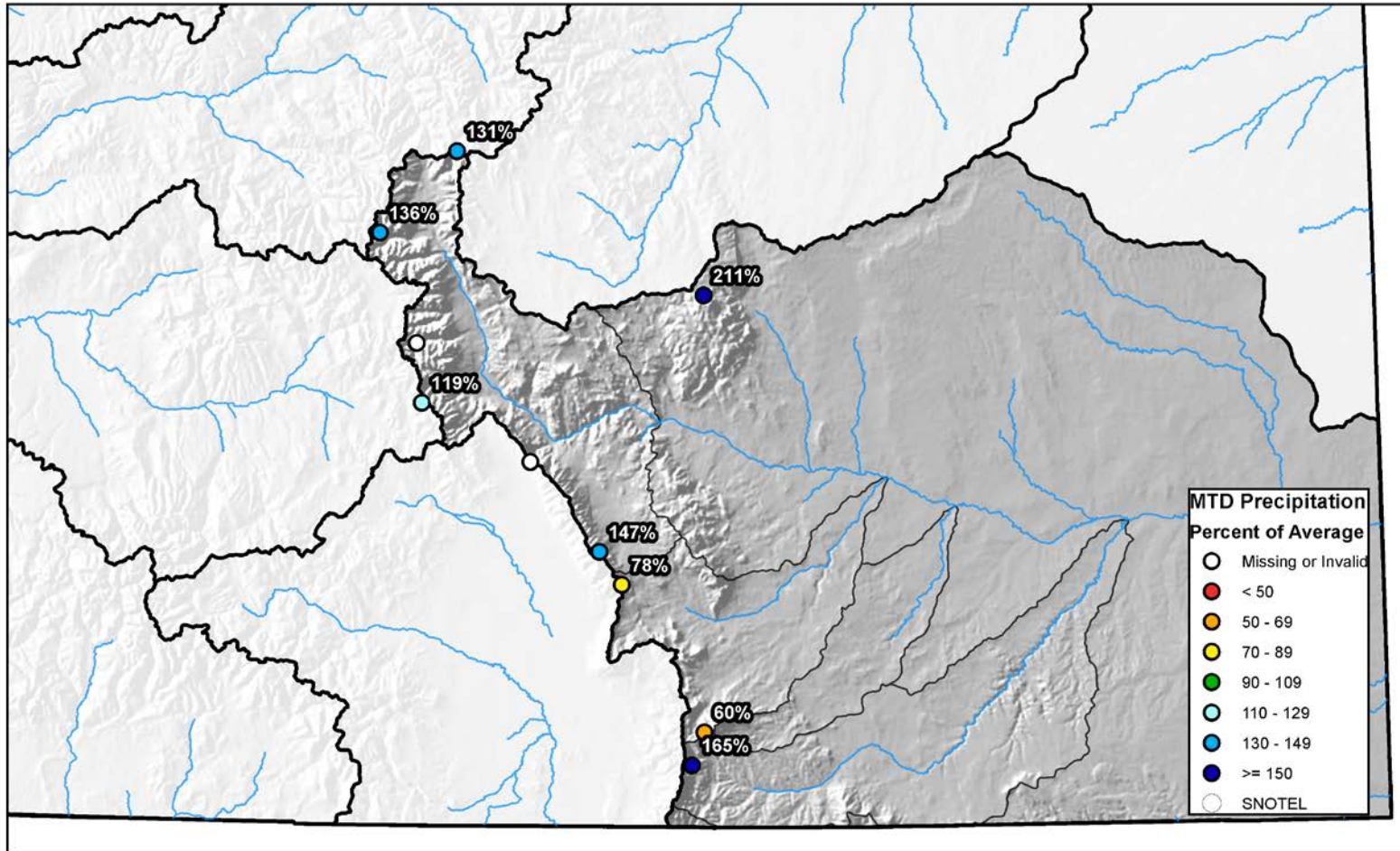
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



Arkansas River Basin Month to Date Precipitation Summary

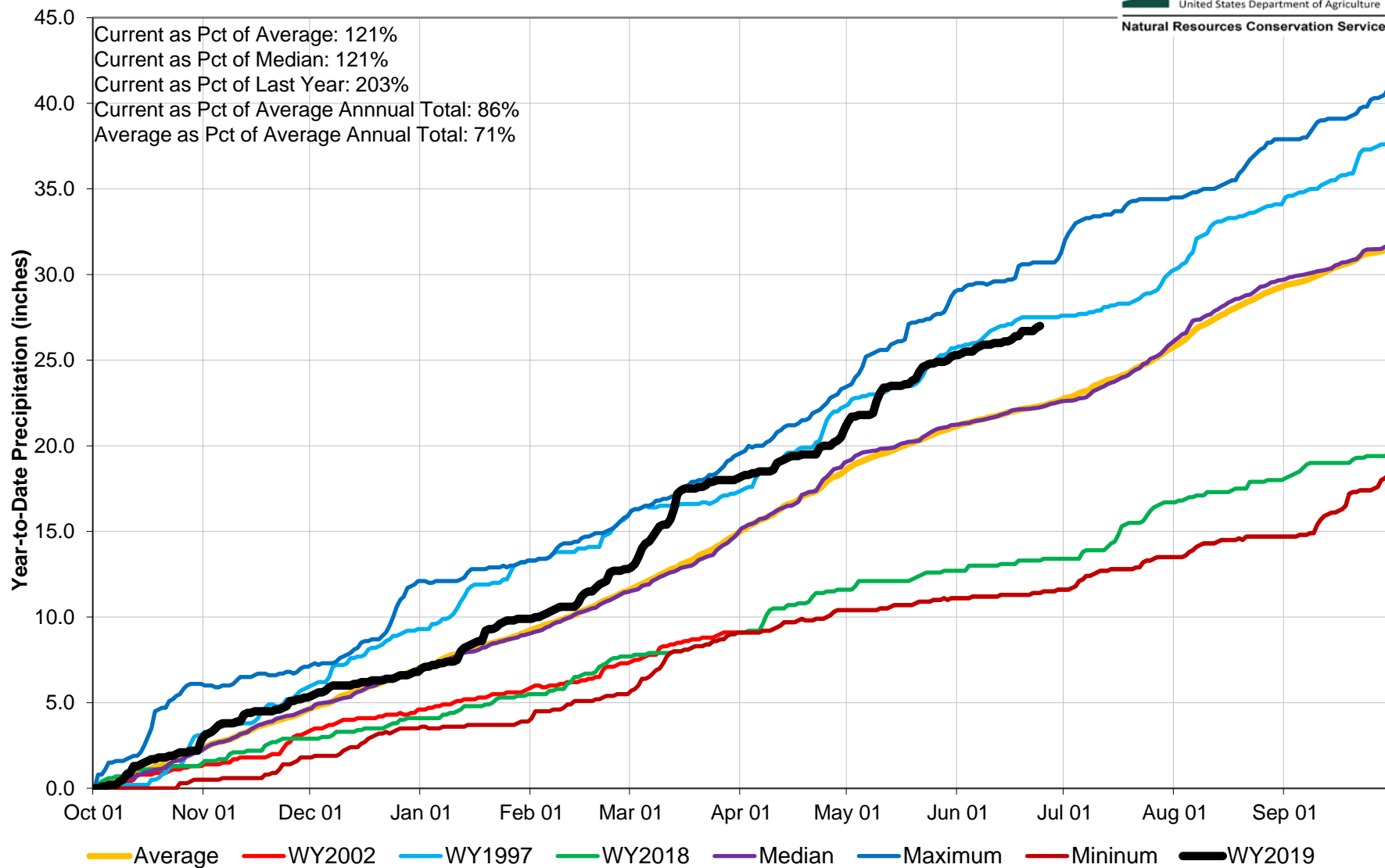
Current as of Jun 24, 2019



0 10 20 40 60 80 Miles

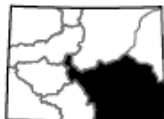
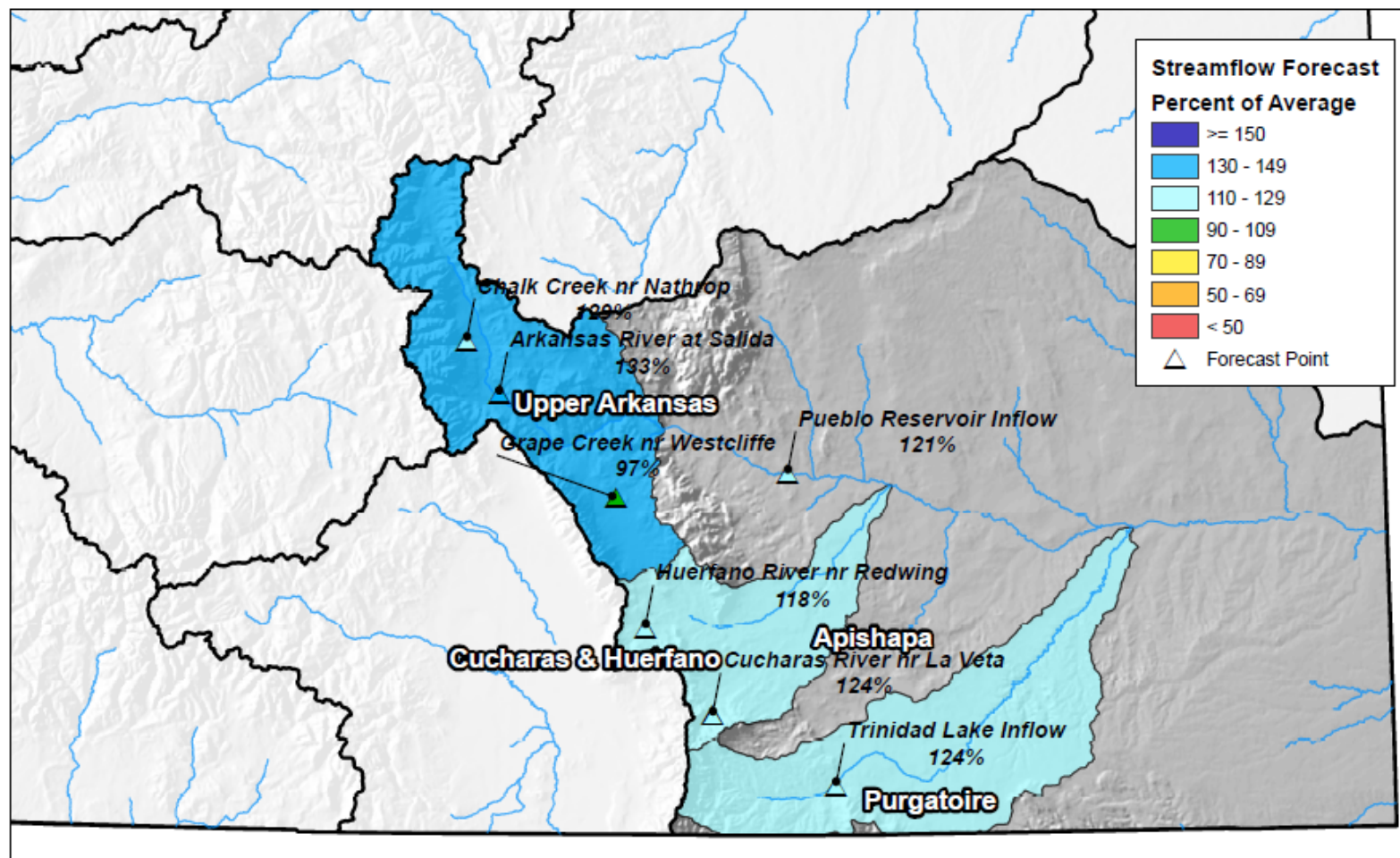
Arkansas River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jun 24, 2019

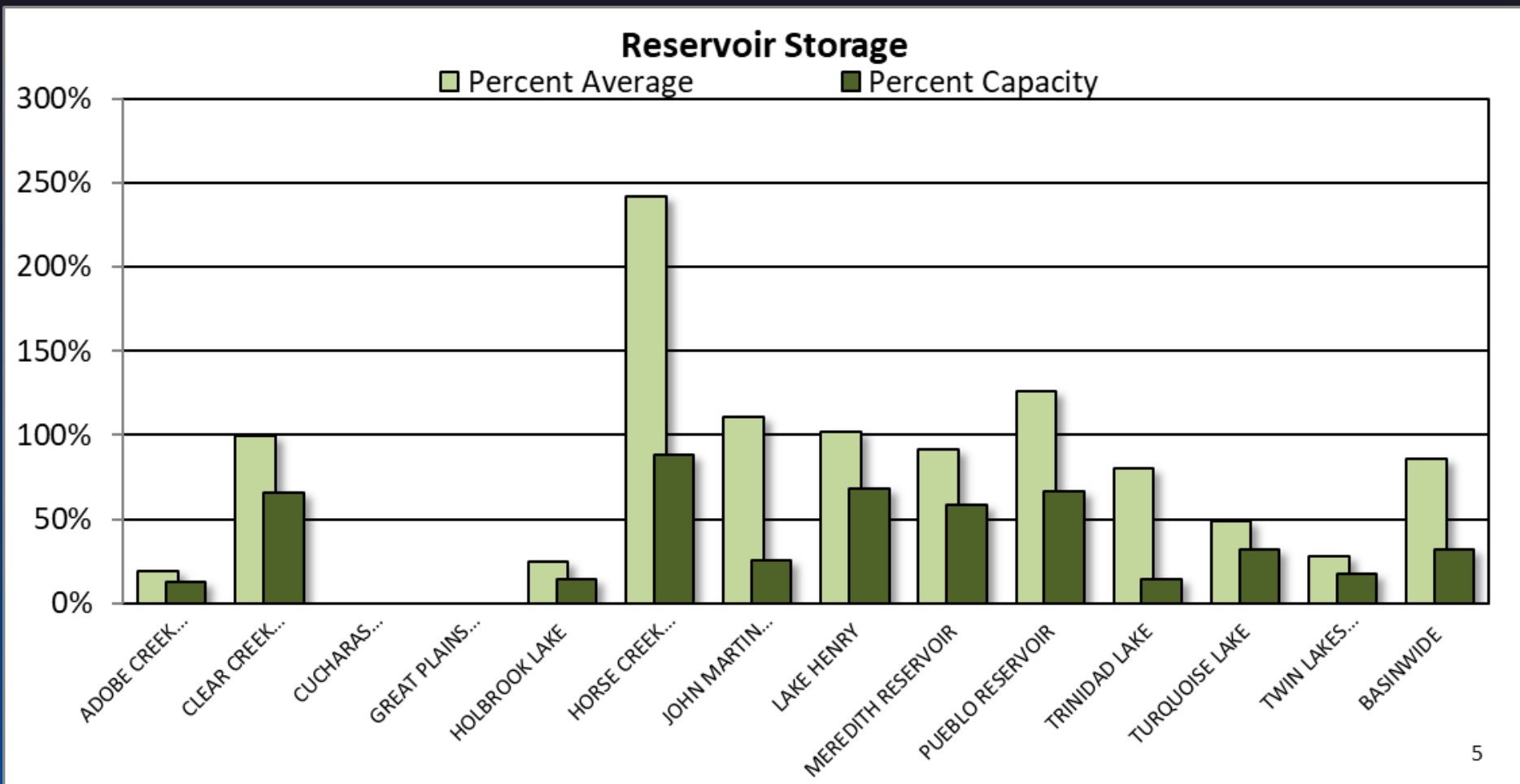


Arkansas River Basin Streamflow Forecast Summary

May 1, 2019



0 10 20 40 60 80 Miles

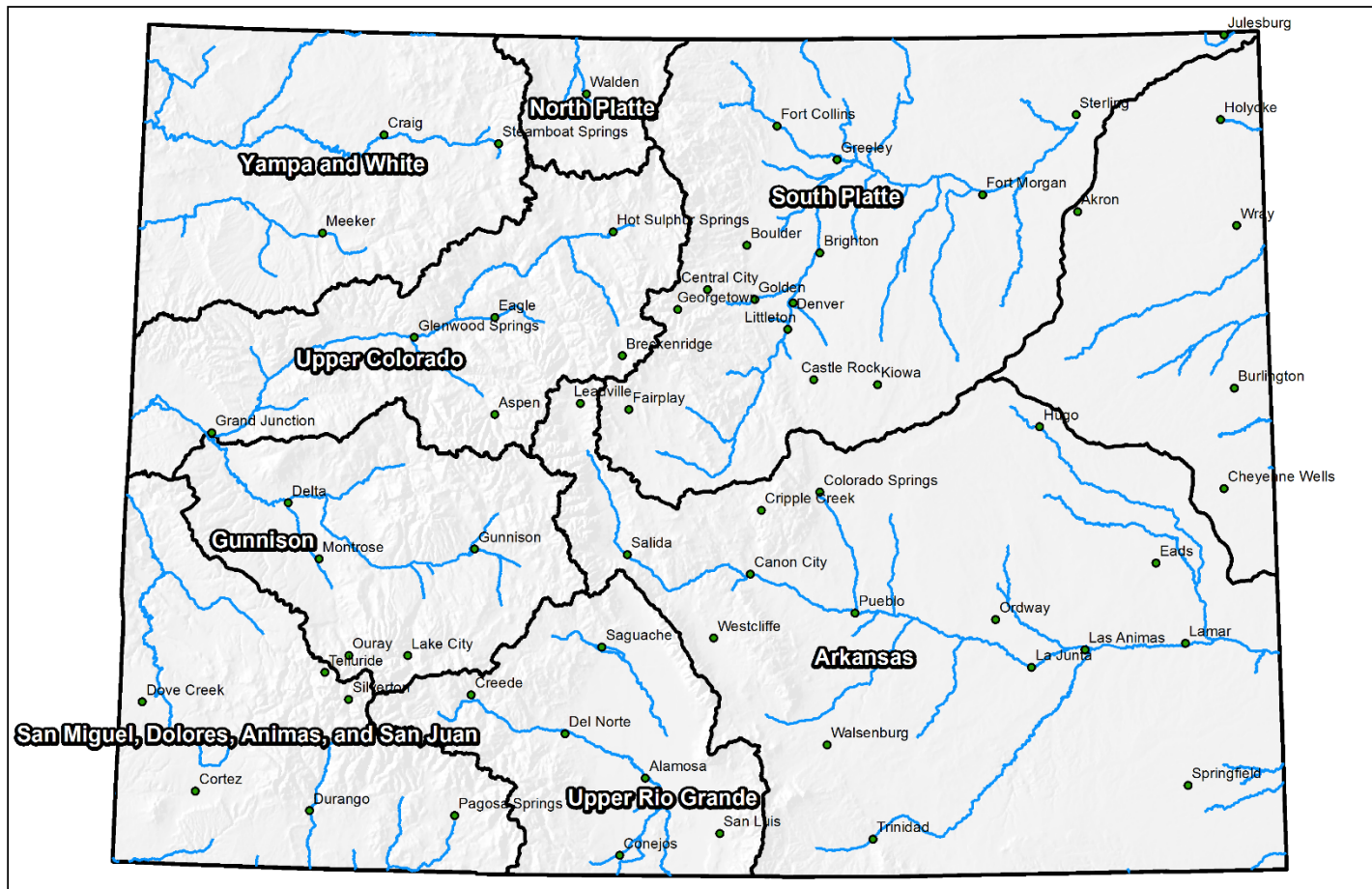


ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



Colorado Statewide Summary

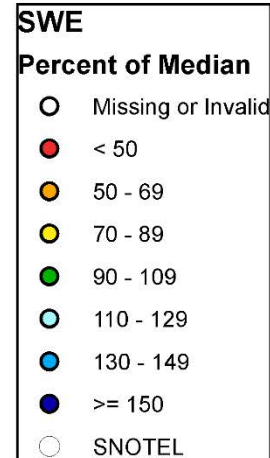
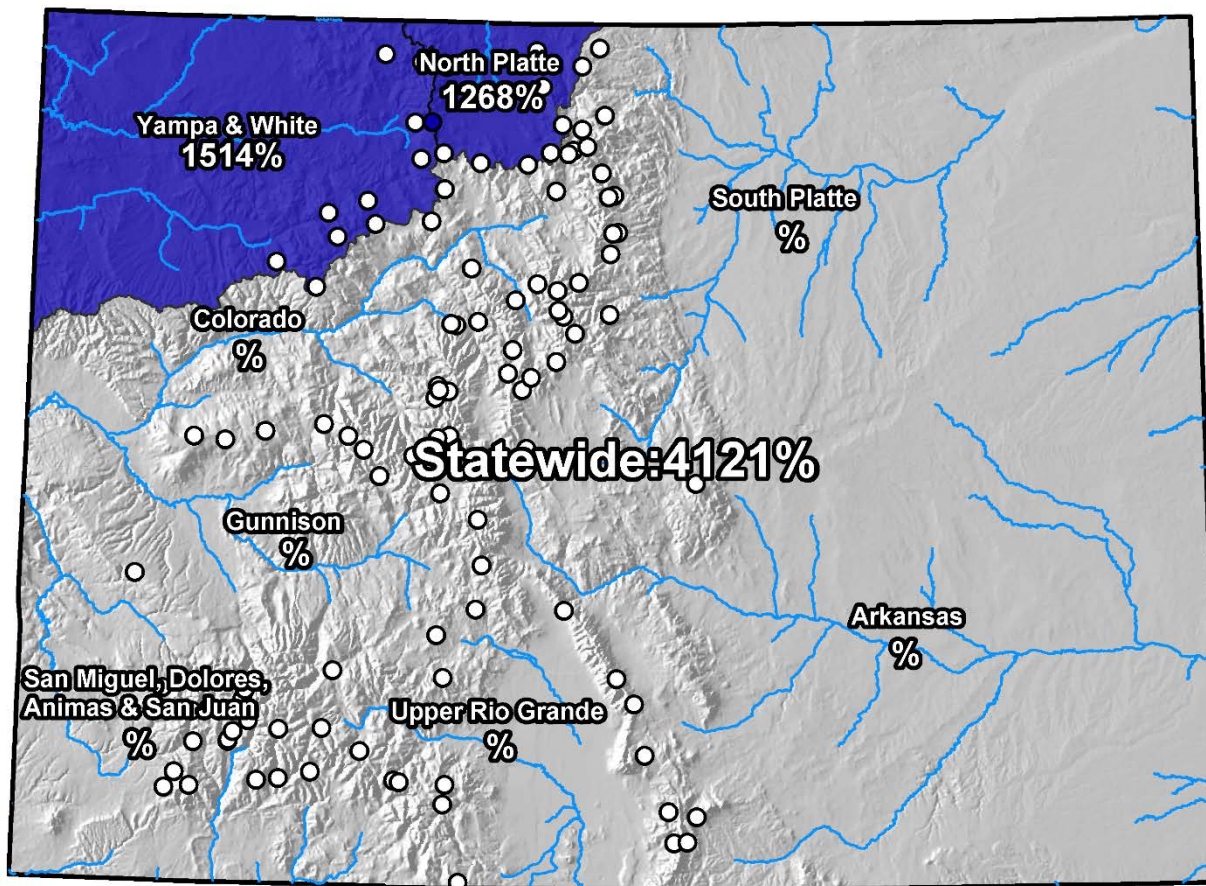
Colorado Major Basins



0 25 50 100 150 200 Miles

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

Current as of Jun 24, 2019



0 25 50 100 150 200 Miles

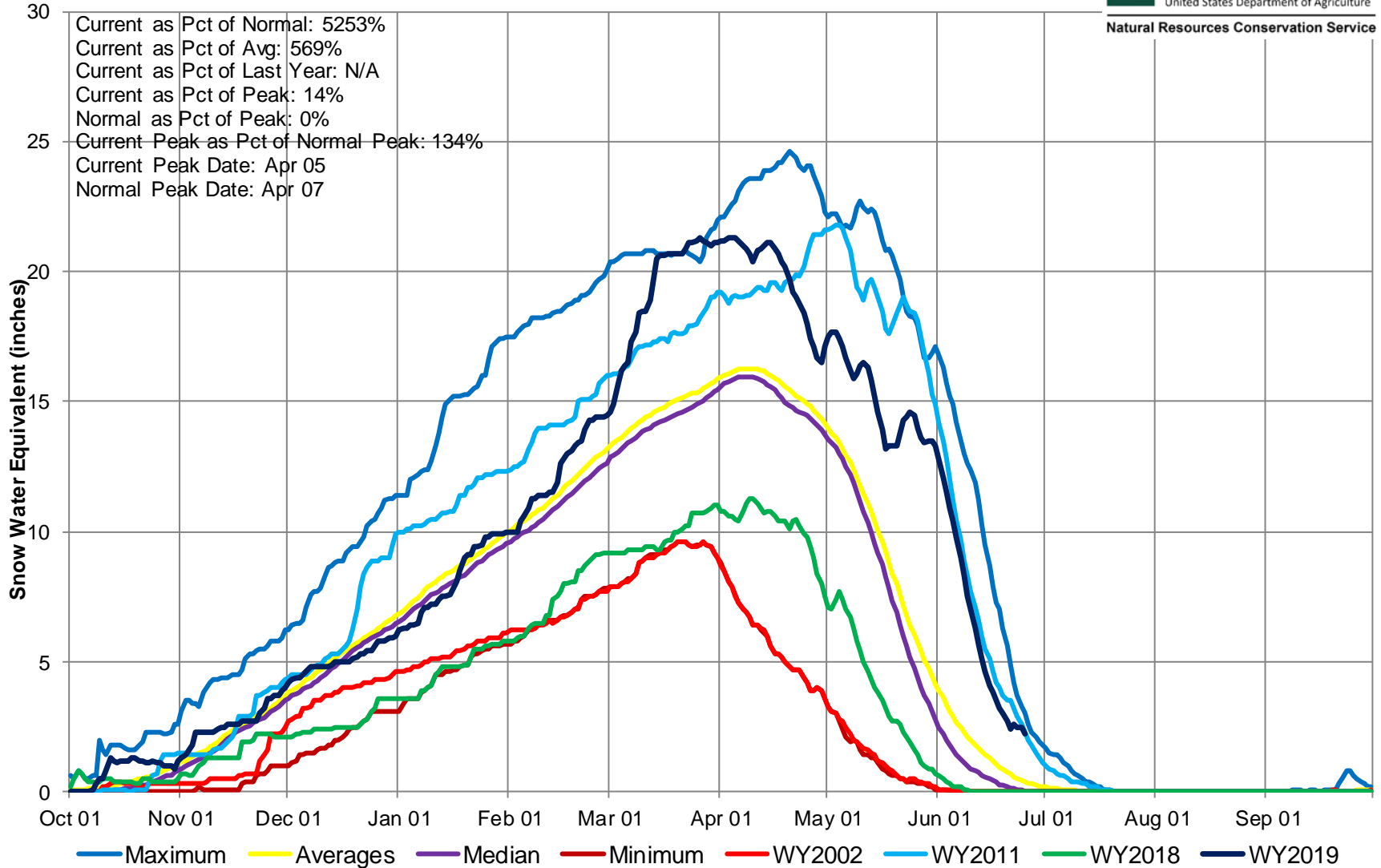
Colorado Statewide High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jun 25, 2019



United States Department of Agriculture

Natural Resources Conservation Service



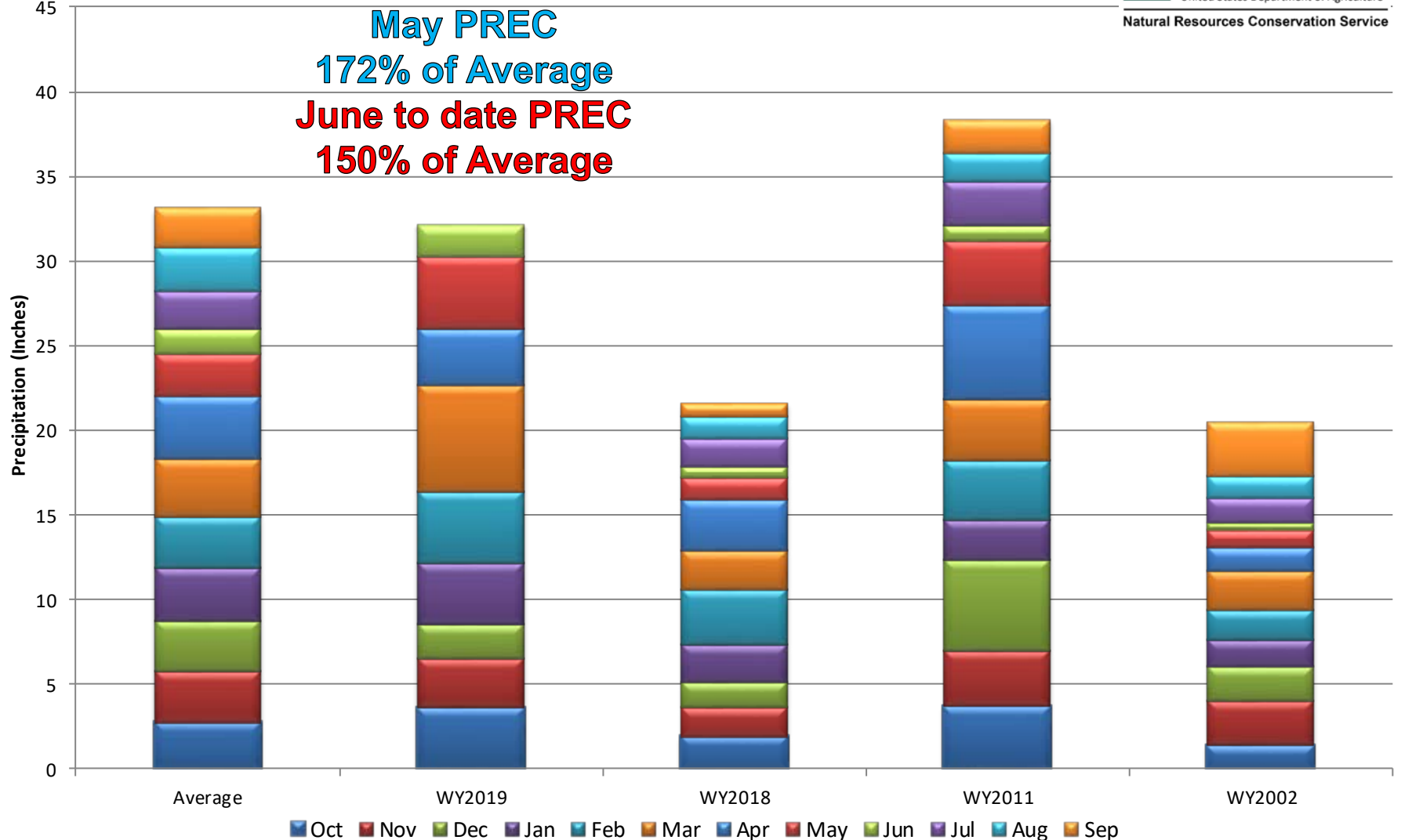
Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 24, 2019



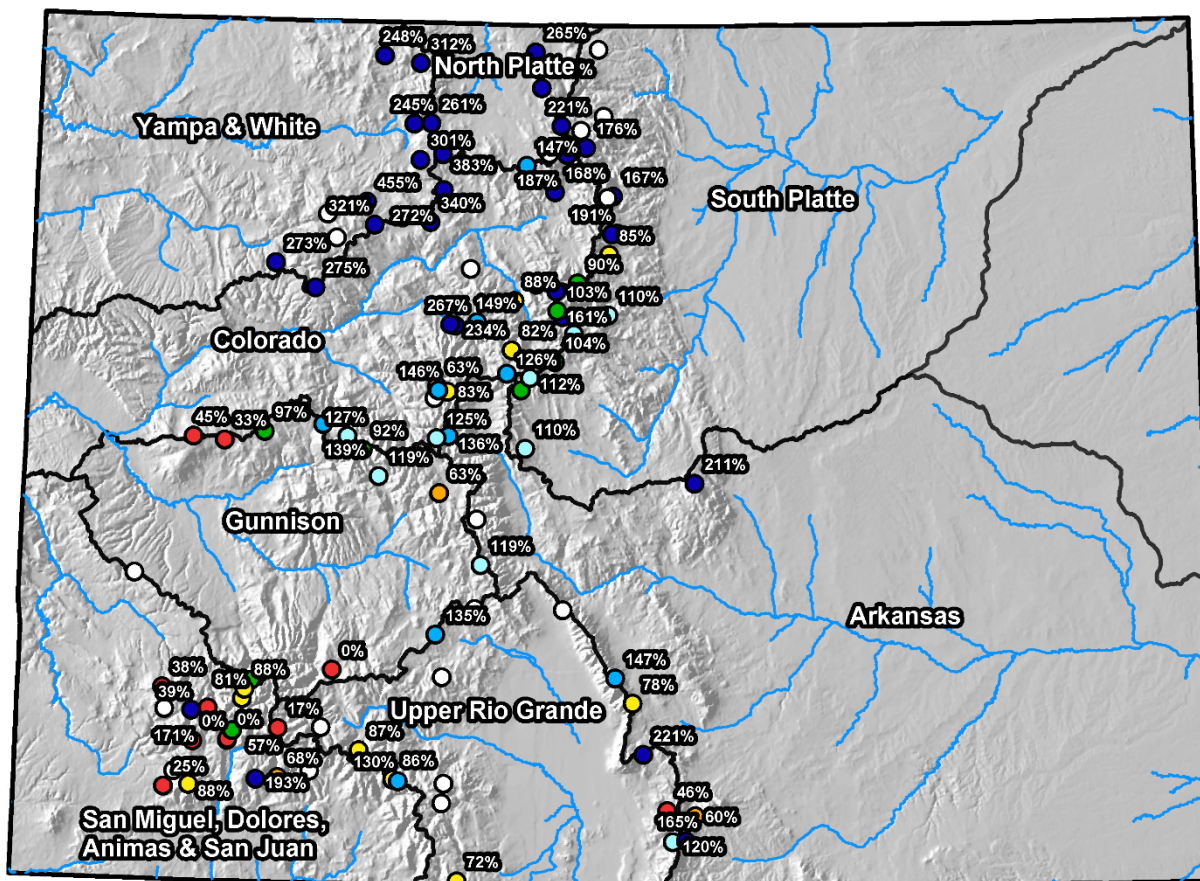
United States Department of Agriculture

Natural Resources Conservation Service



Colorado SNOTEL Month-to-Date Precipitation

Current as of Jun 24, 2019

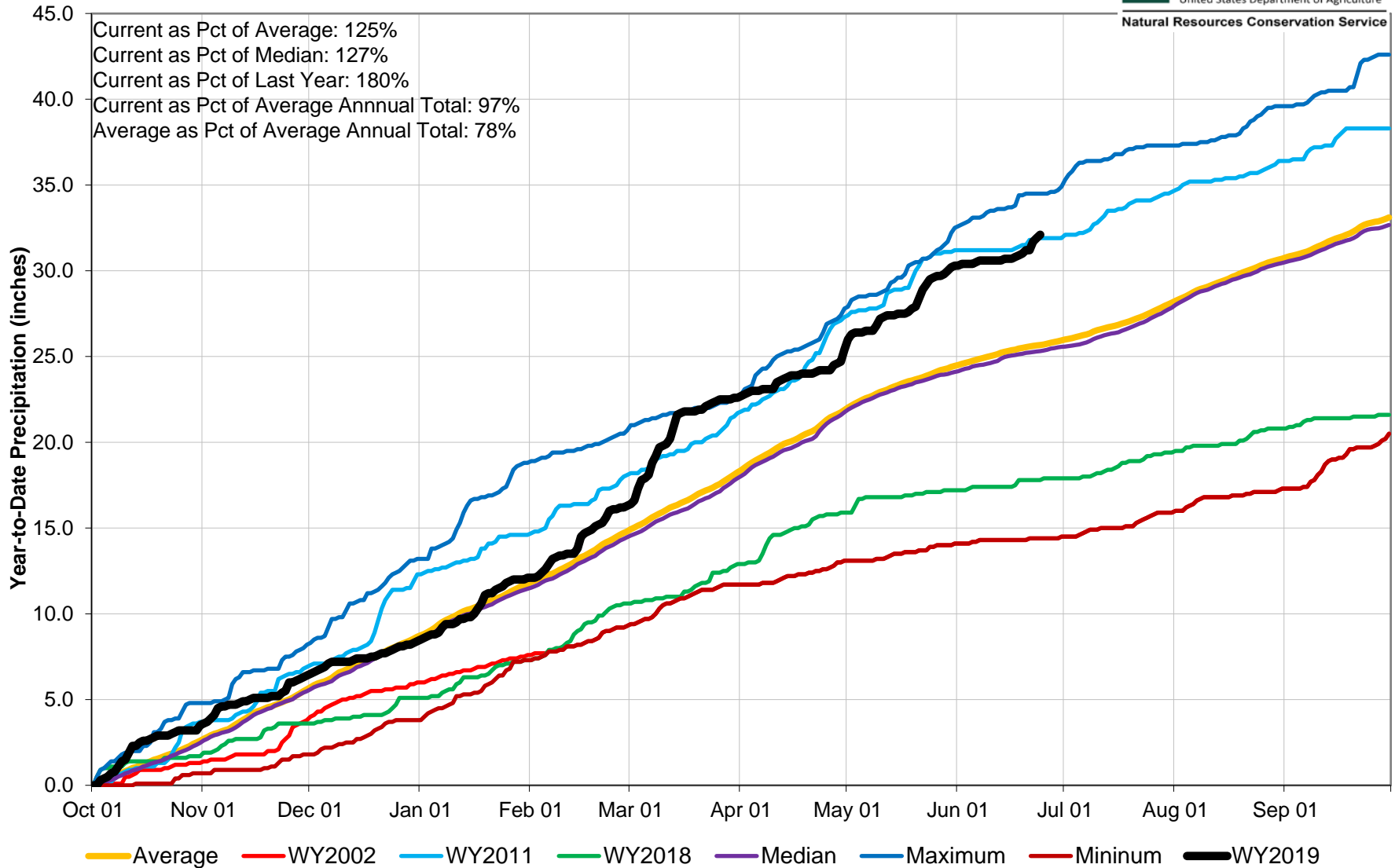


0 25 50 100 150 200 Miles



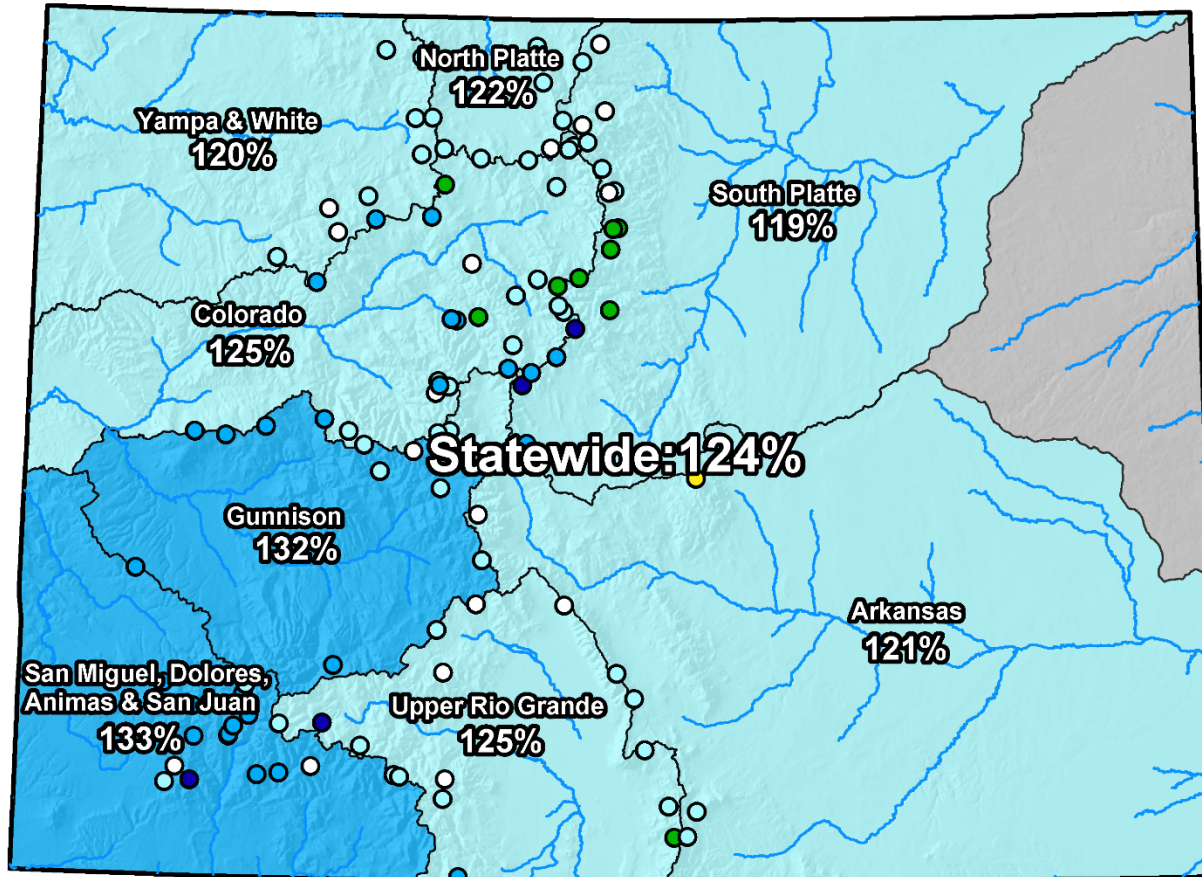
Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jun 24, 2019



Colorado SNOTEL Water Year to Date Precipitation

Current as of Jun 24, 2019



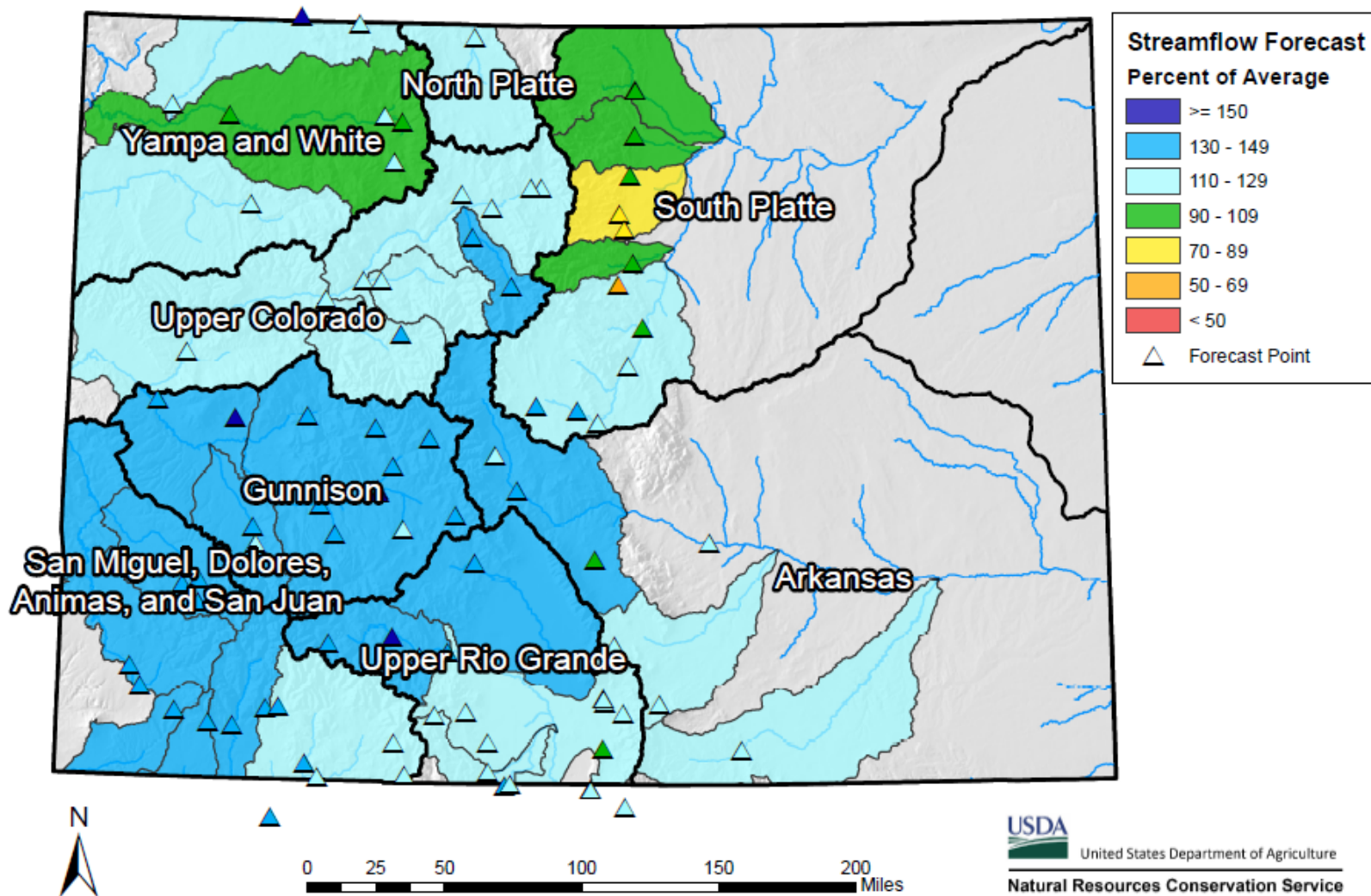
WYTD Precipitation Percent of Average

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



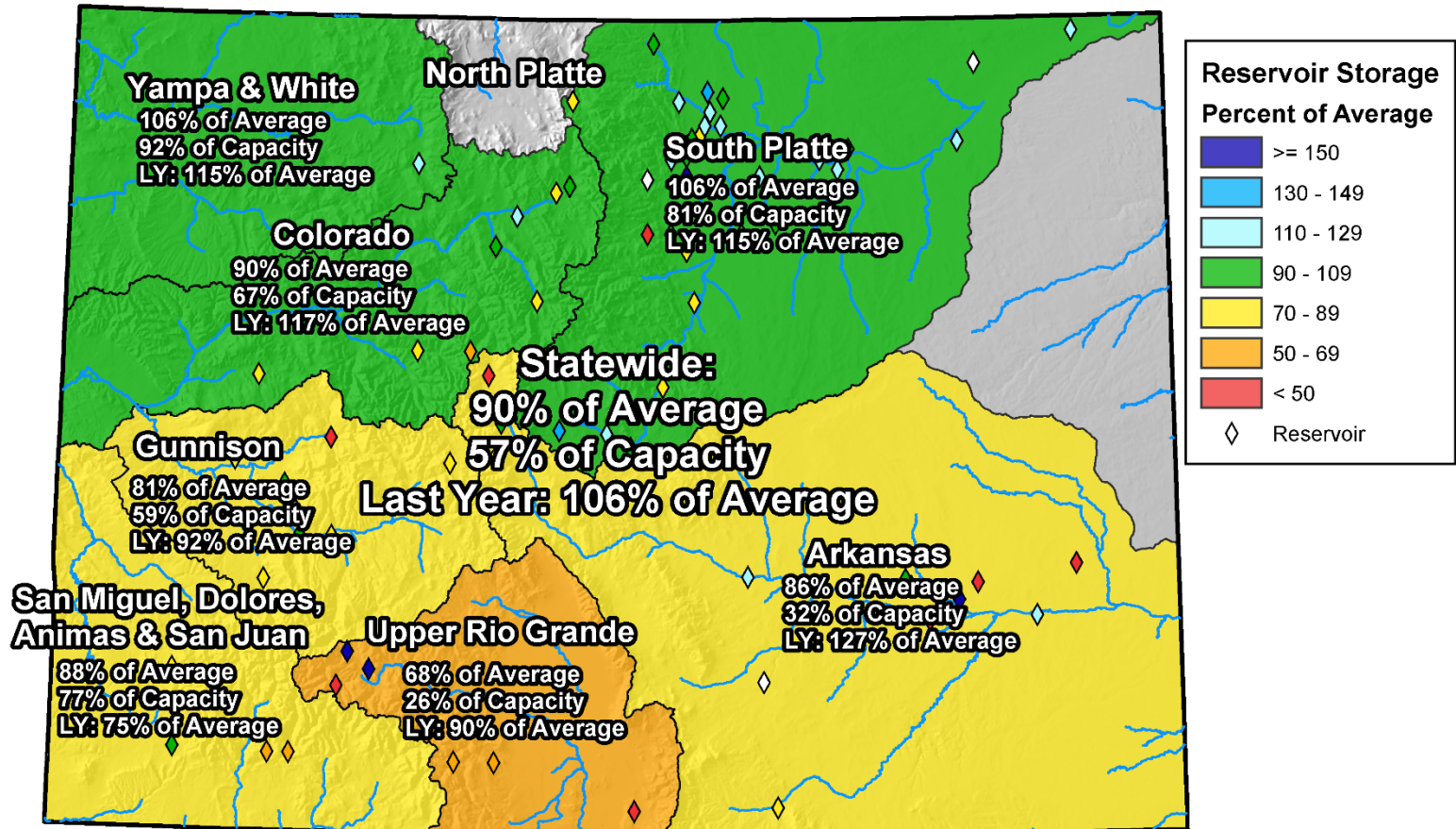
0 25 50 100 150 200 Miles

Colorado Streamflow Forecasts Summary May 1, 2019



Colorado Monthly Reservoir Storage Summary

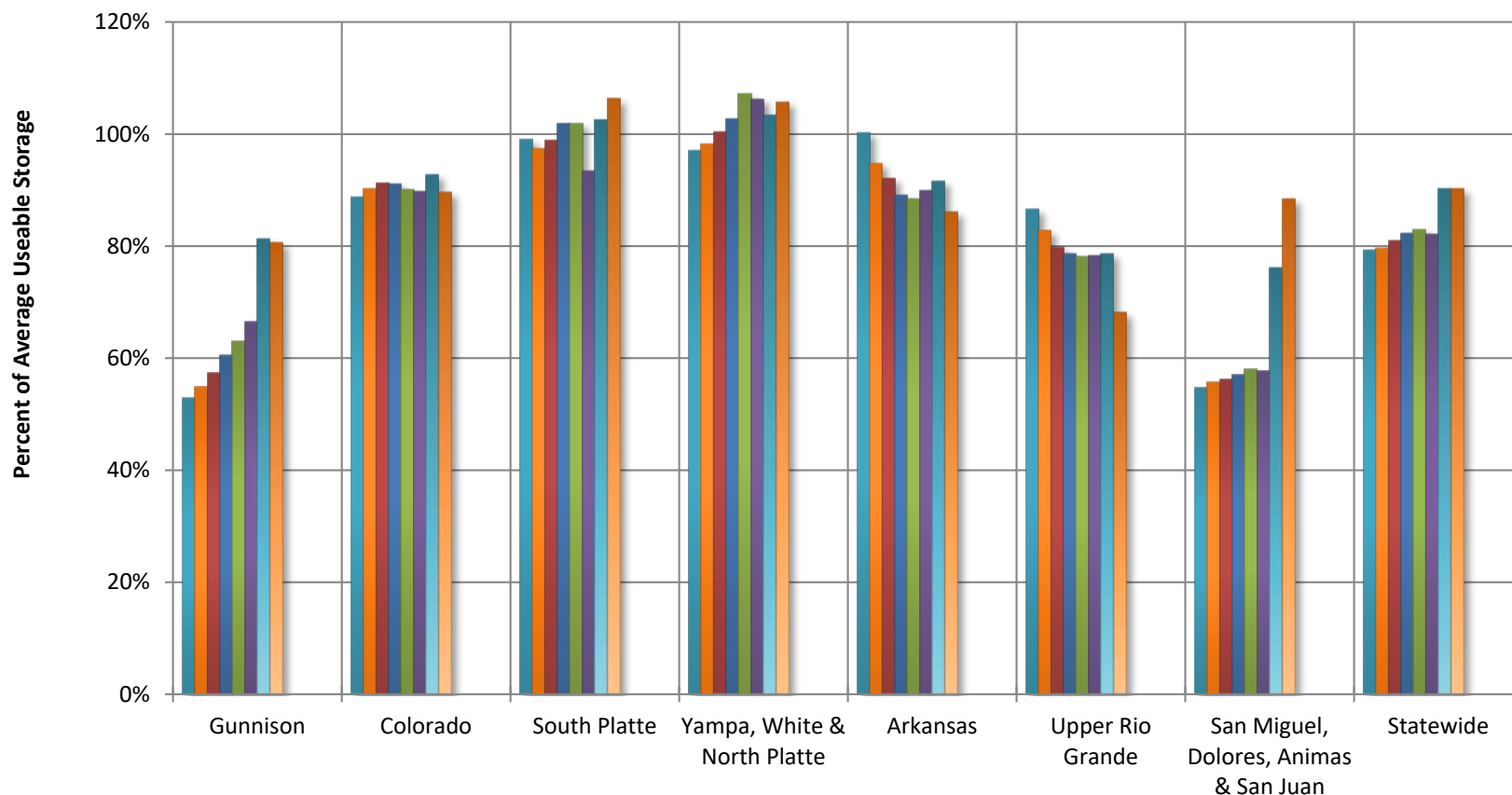
End of May 2019



0 25 50 100 150 200 Miles

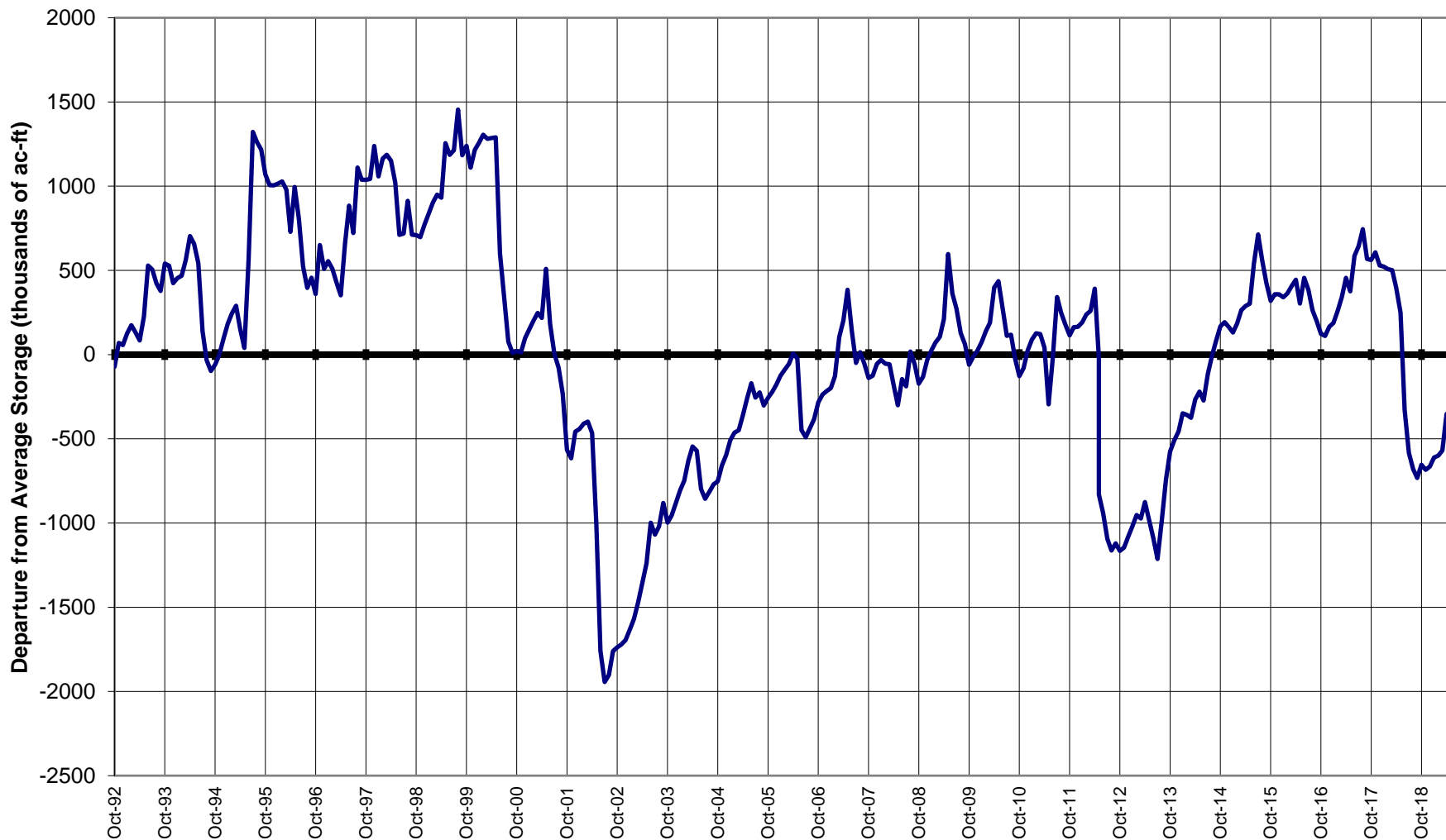
Colorado Reservoir Storage

Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19
 Apr-19 May-19 Jun-19 Jul-19 Aug-19 Sep-19

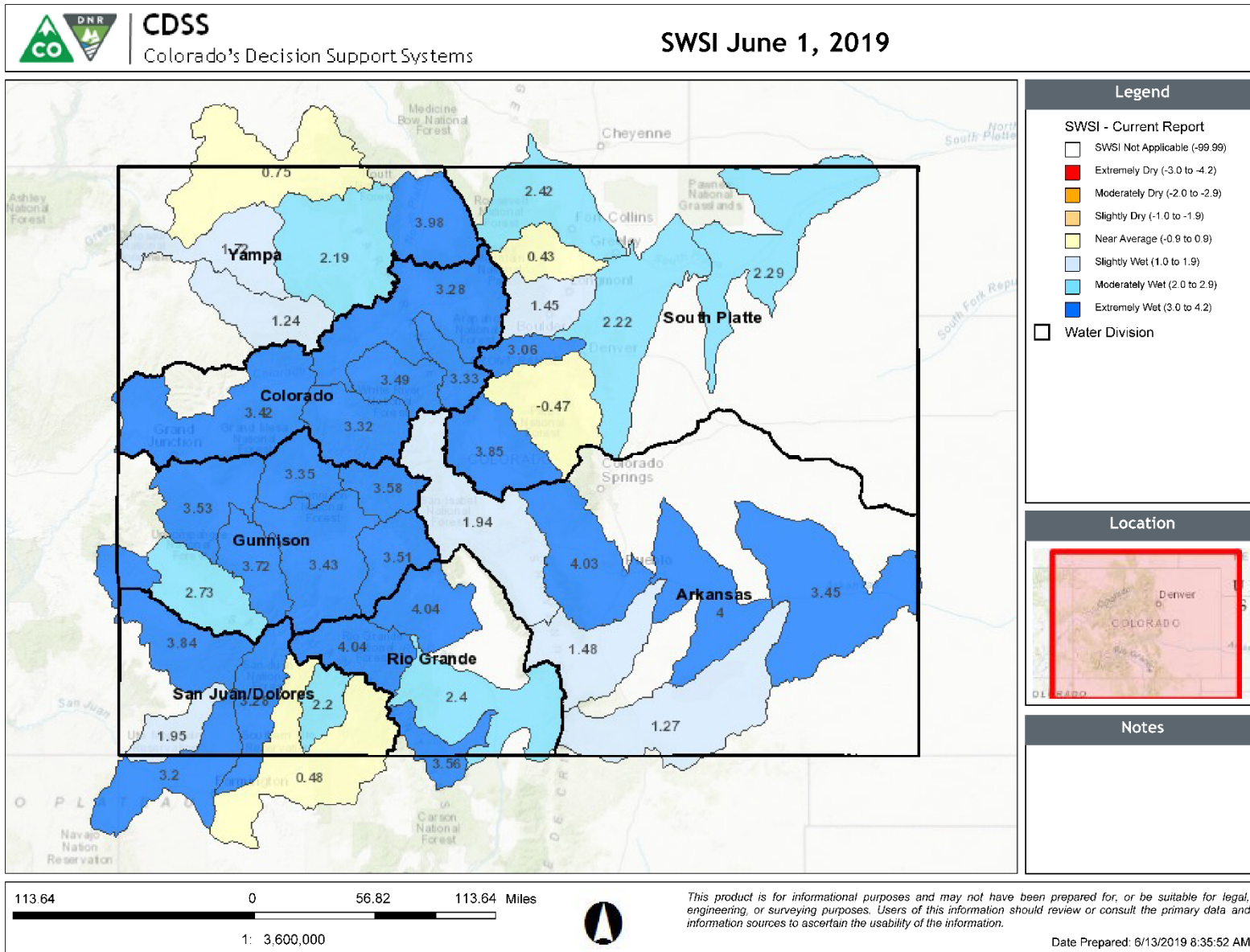




COLORADO STATEWIDE Reservoir Storage Departure from Average



June 1, 2019 SWSI



Summary

•Precipitation Statewide

- May precipitation was above normal for the month.
- June so far has seen 150% of normal precipitation
- Year to date precipitation is currently 124% of normal

•Snowpack

- Statewide remains at about 15% of SNOTELs across the state
- Has persisted this late before, such as in 2011 (very close to this year) and in 1995
- 12% of this year's snowpack remains to melt according to SNOTEL
- 2019 Peak snowpack ranked 6th at 130% median among 34 yrs in the POR
 - Similar to 2011, 1986, 2008, highest was 1993 at 151% median.

•Statewide reservoir storage is 90 percent of average

•Above average May streamflows occurred across most of the state

•Minimal forecasts produced in June



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

June 25th, 2019

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos

Hydrologist

Snow Survey Supervisor

720-544-2852

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



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