



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

February 19th, 2019

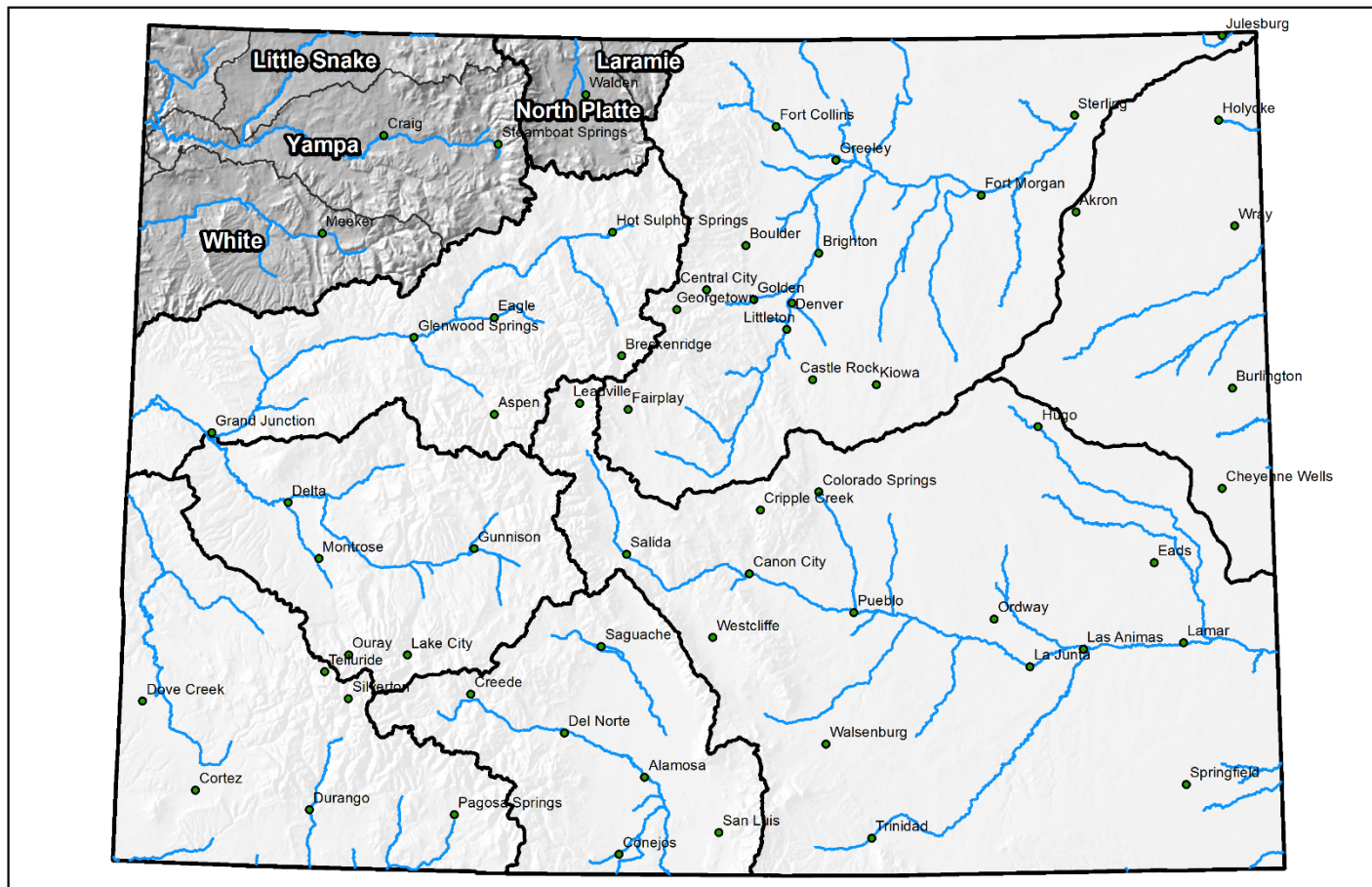
NRCS Snow Survey and Water Supply Forecasting Program

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



0 25 50 100 150 200 Miles



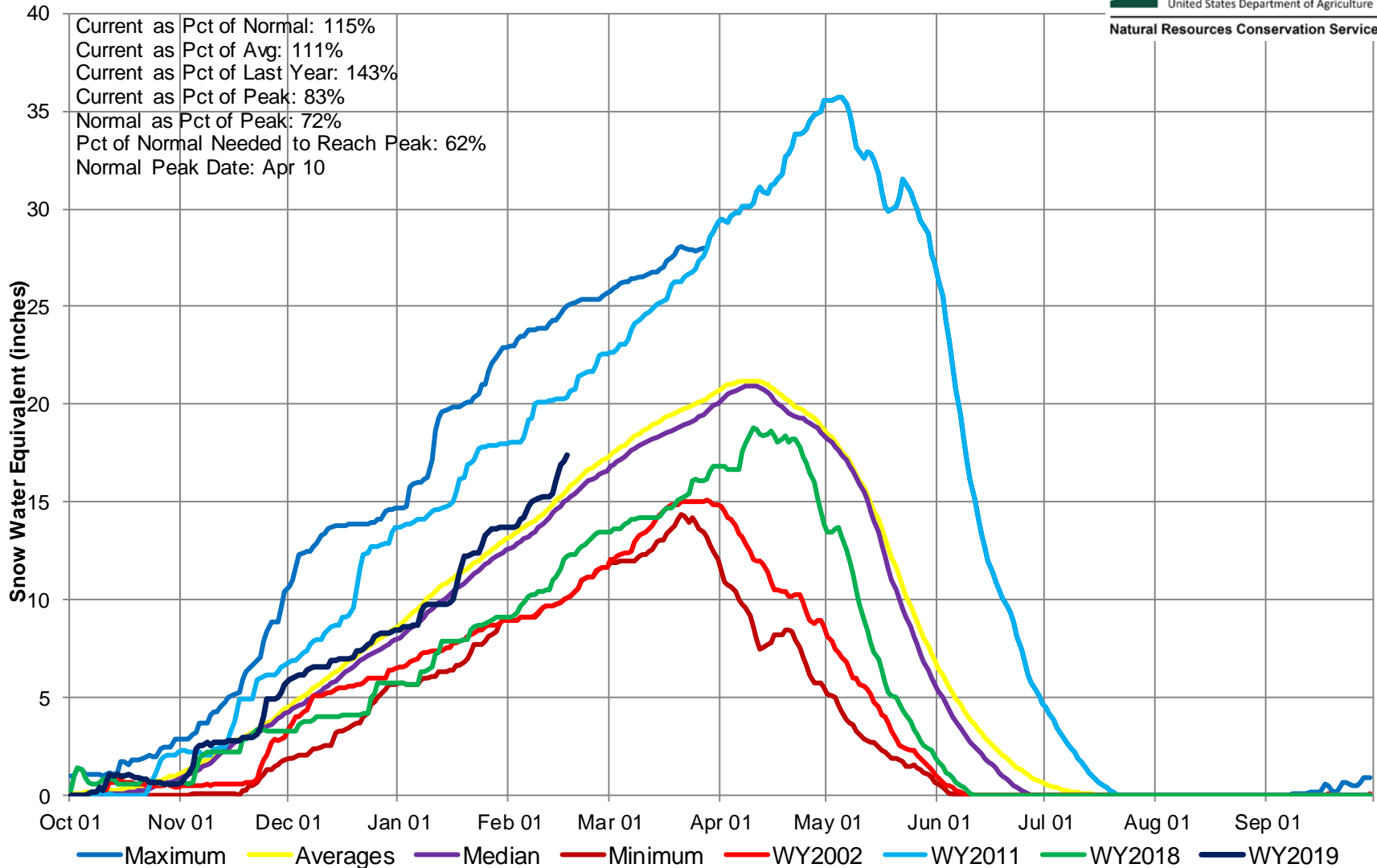
Yampa and White River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



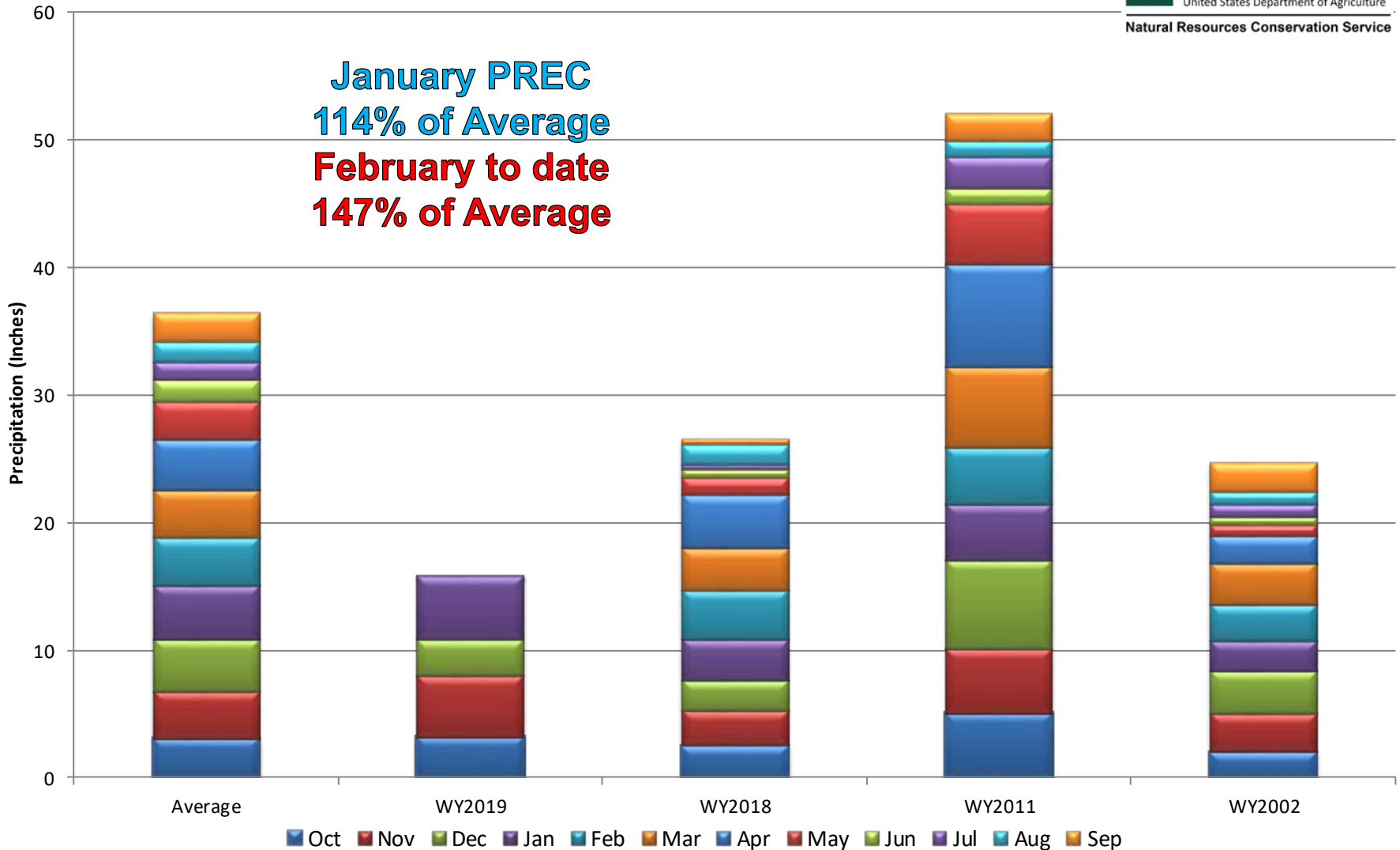
United States Department of Agriculture

Natural Resources Conservation Service

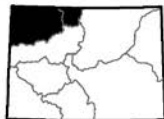
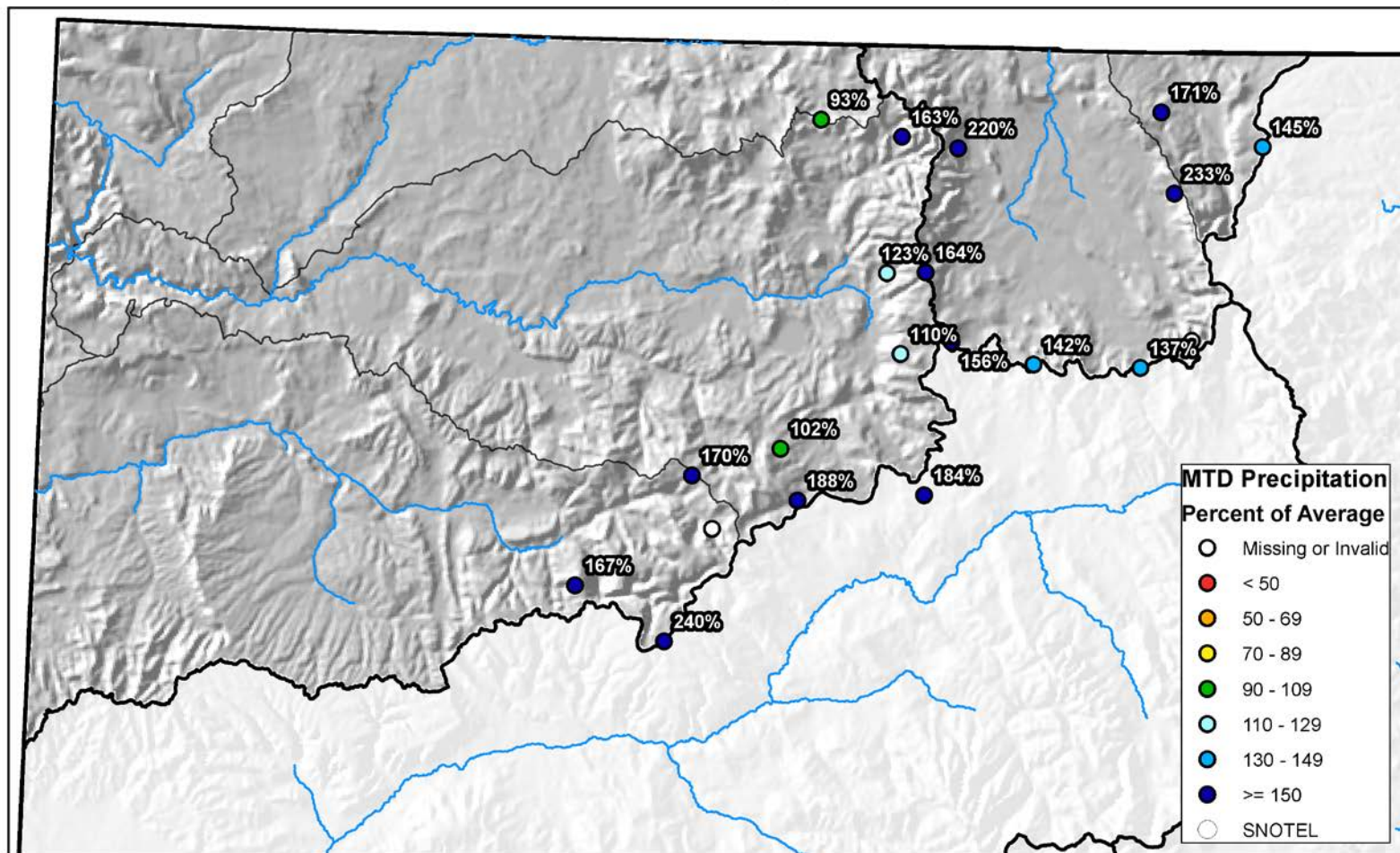


Yampa and White River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



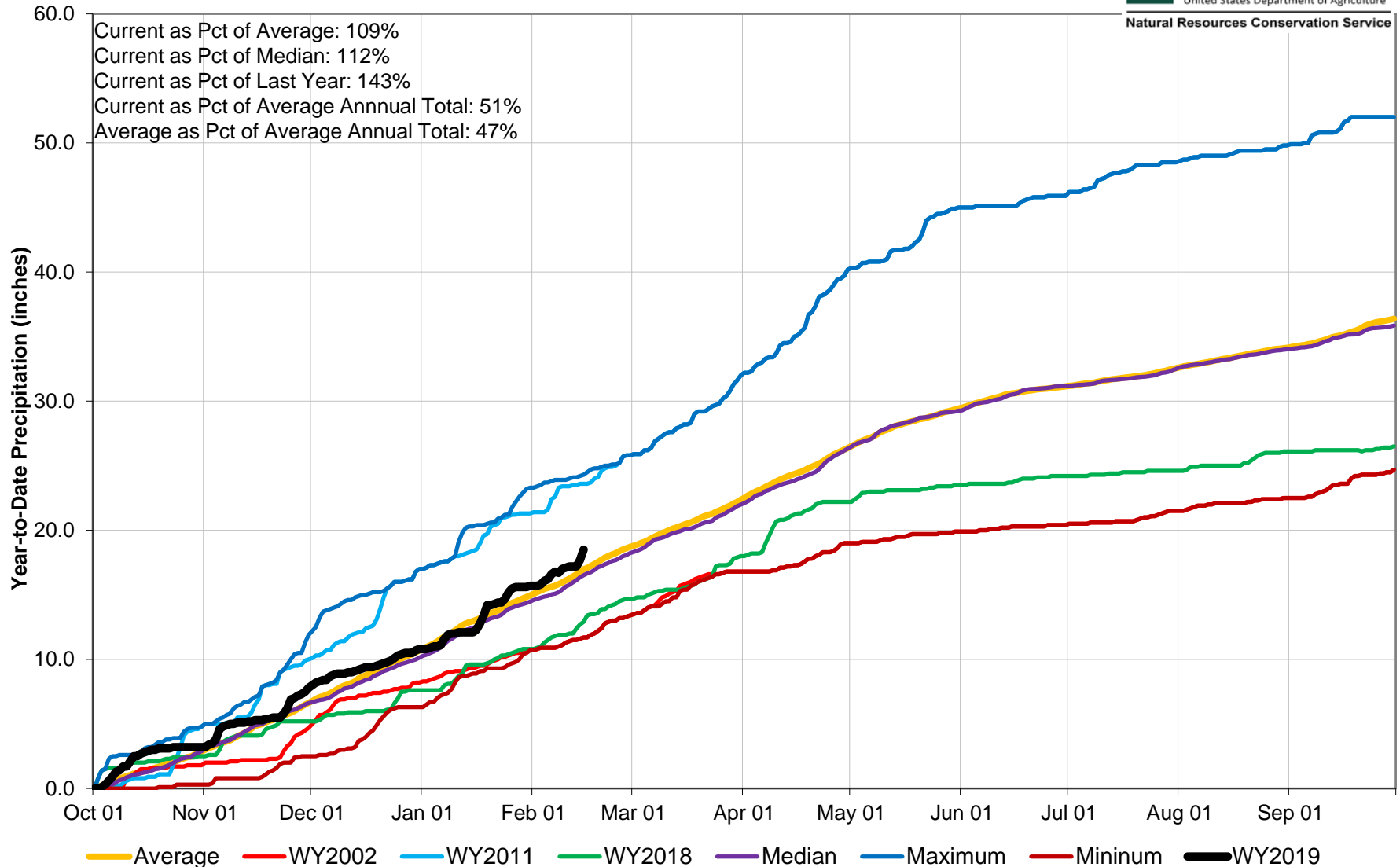
Yampa, White, and North Platte River Basins Month to Date Precipitation Summary Current as of Feb 15, 2019



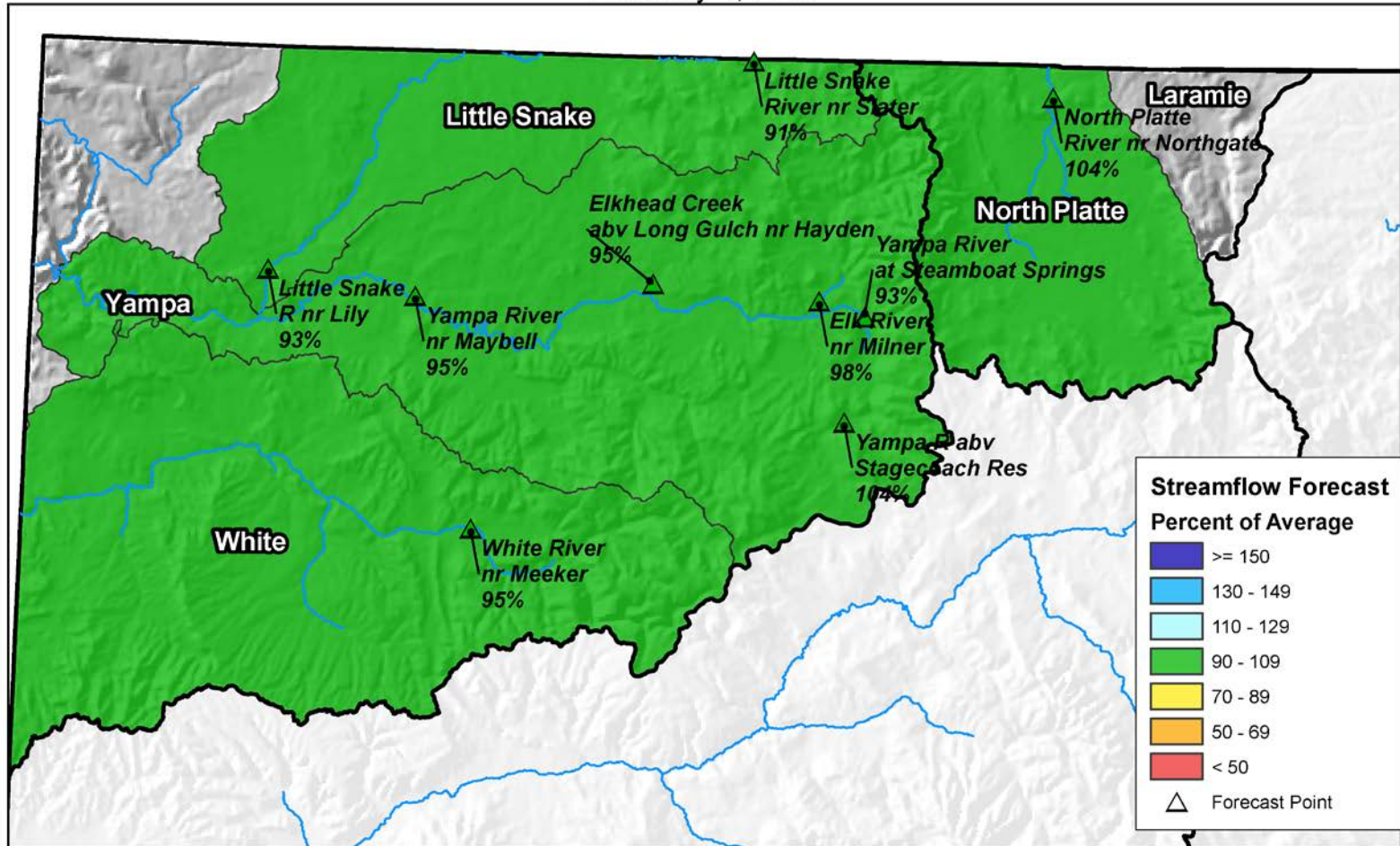
0 10 20 40 60 80 Miles

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

Based on Provisional SNOTEL data as of Feb 15, 2019



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

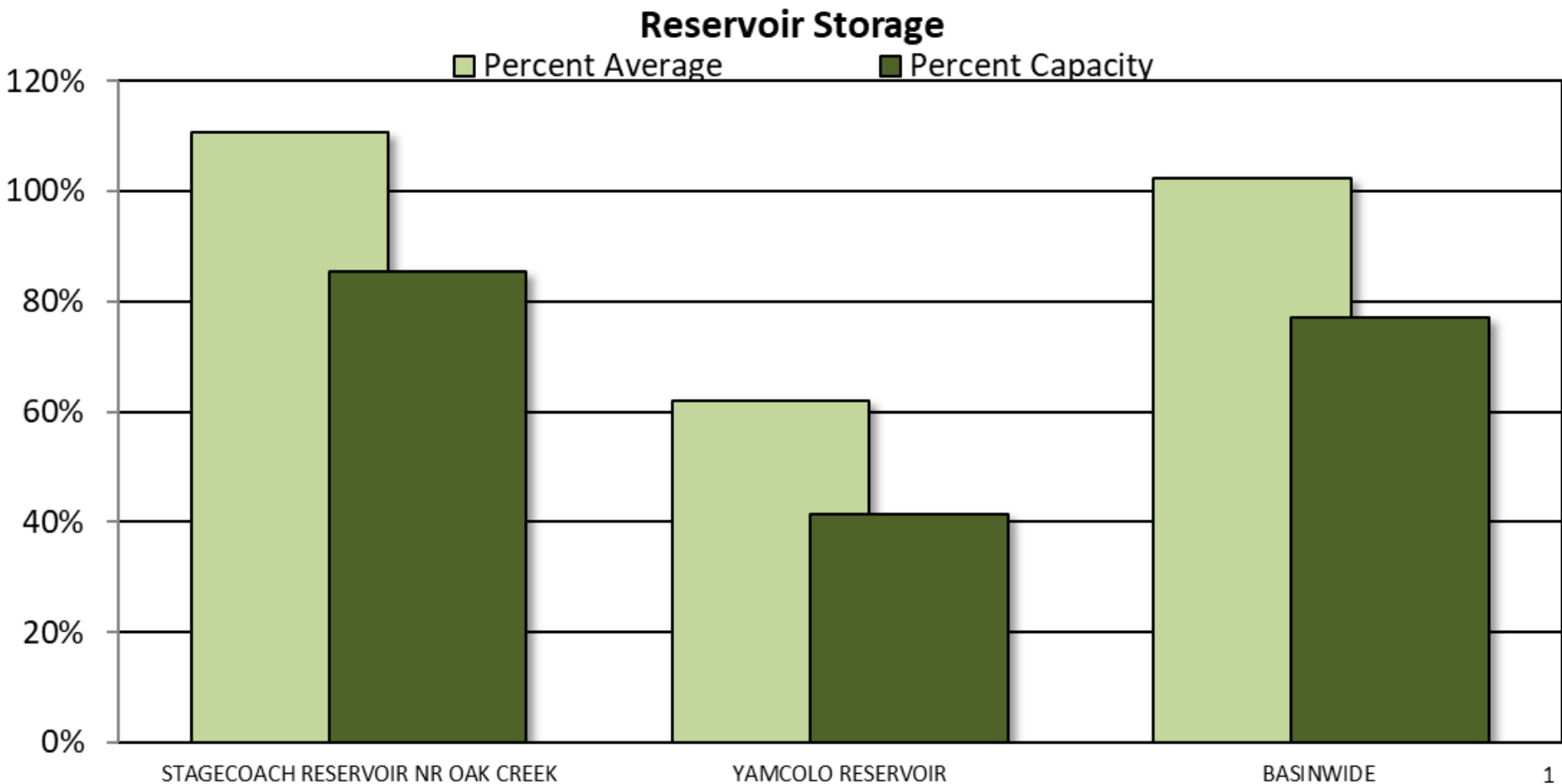


0 10 20 40 60 80 Miles

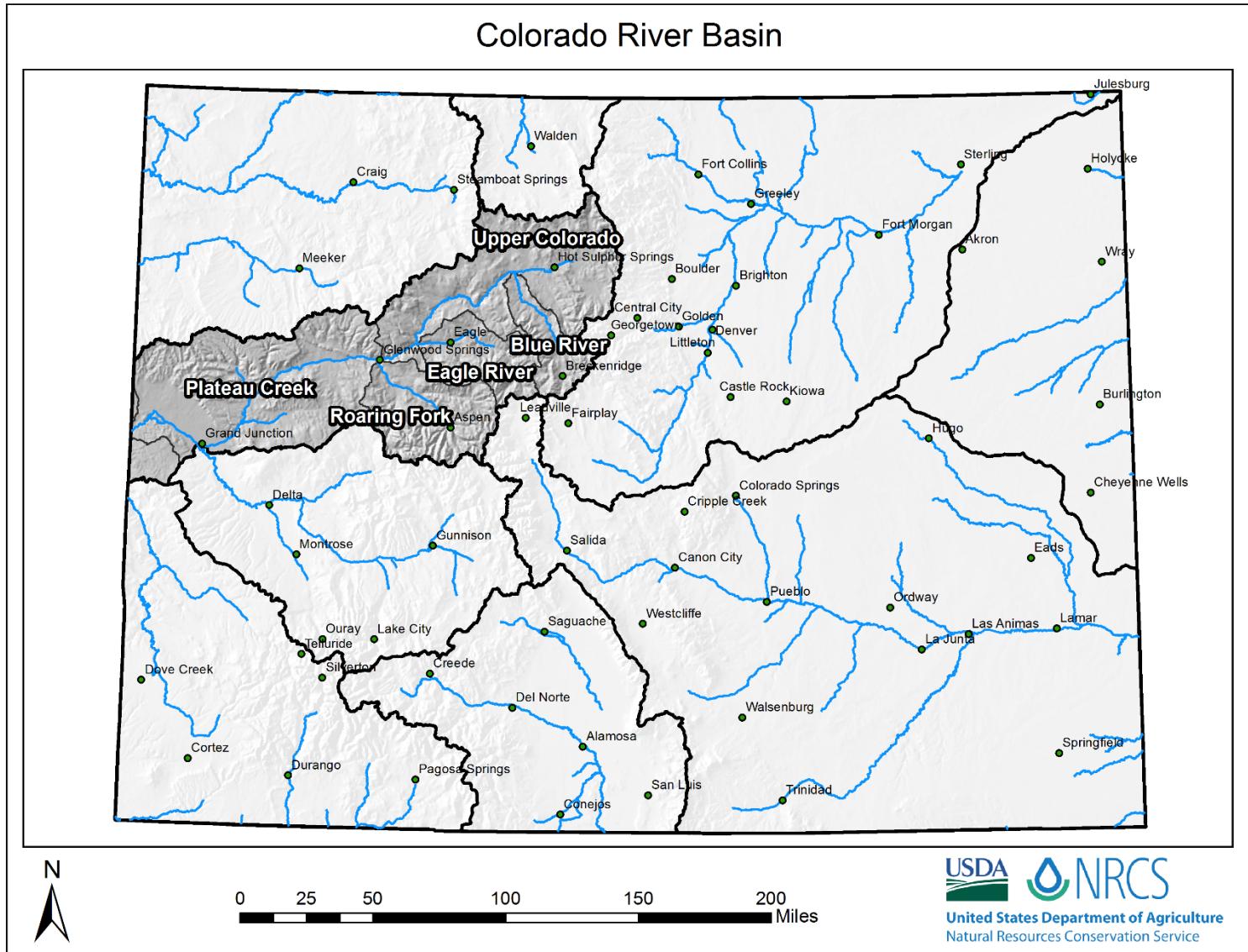


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Major Basin Summary





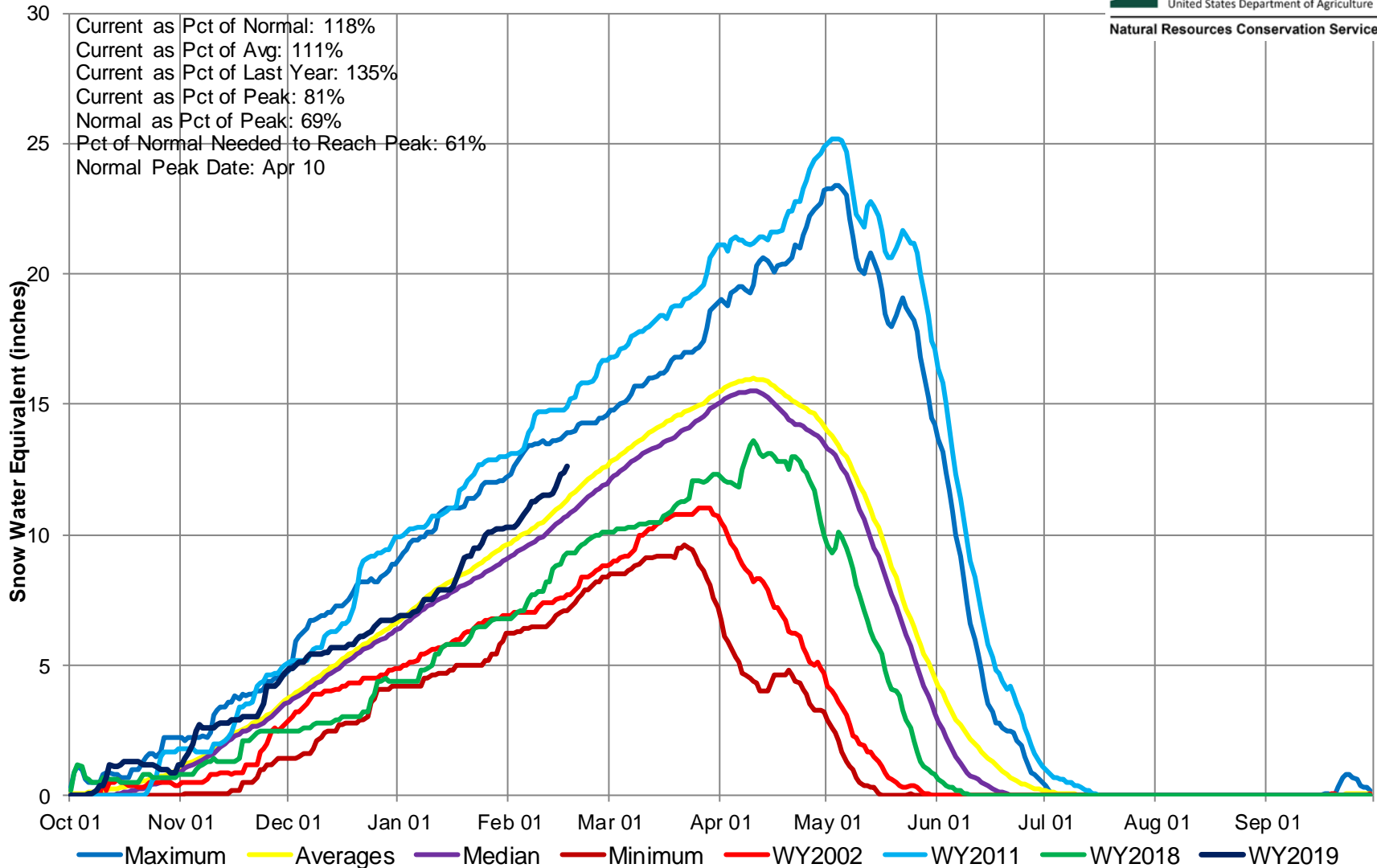
Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



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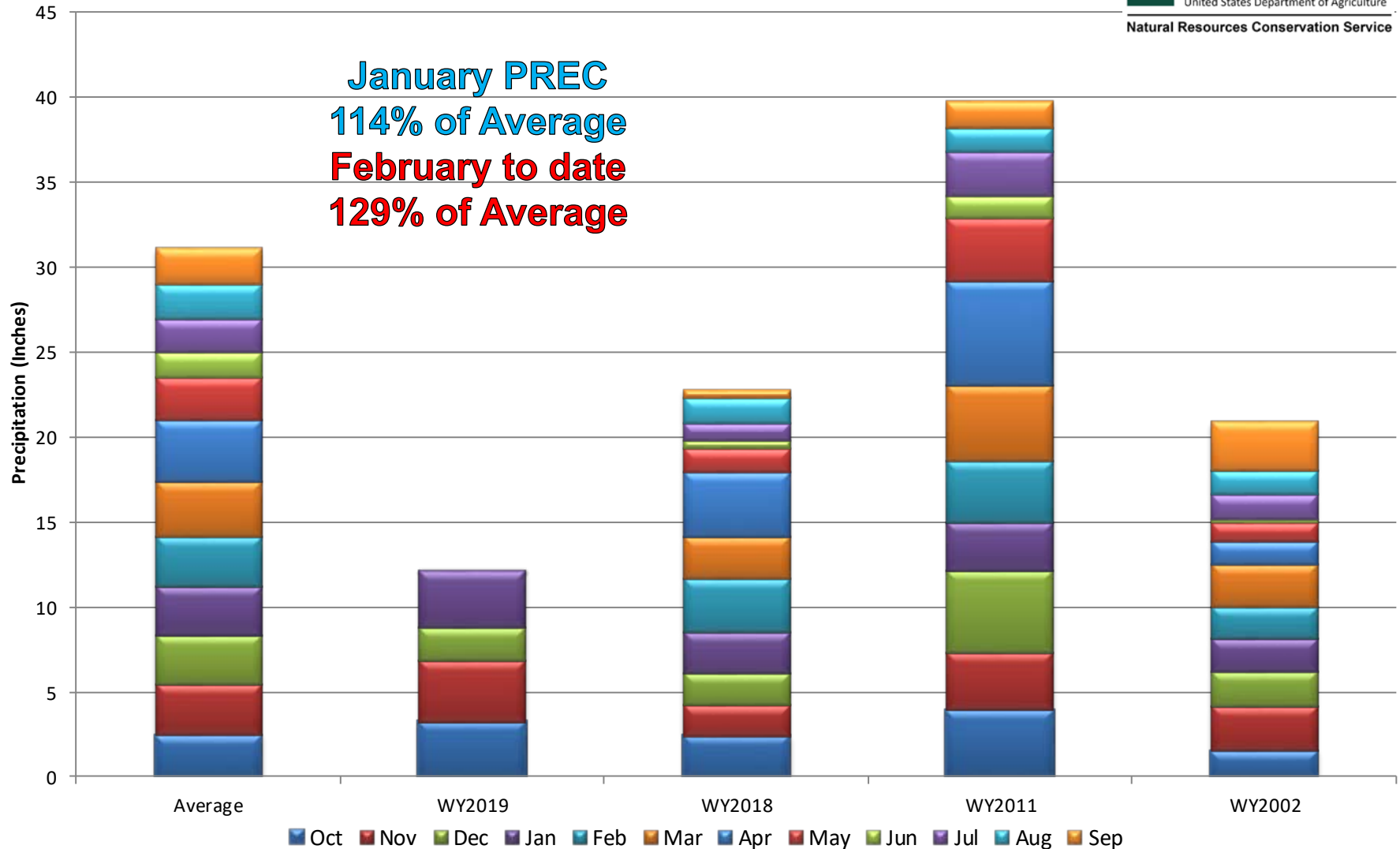
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



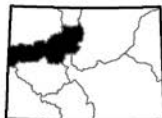
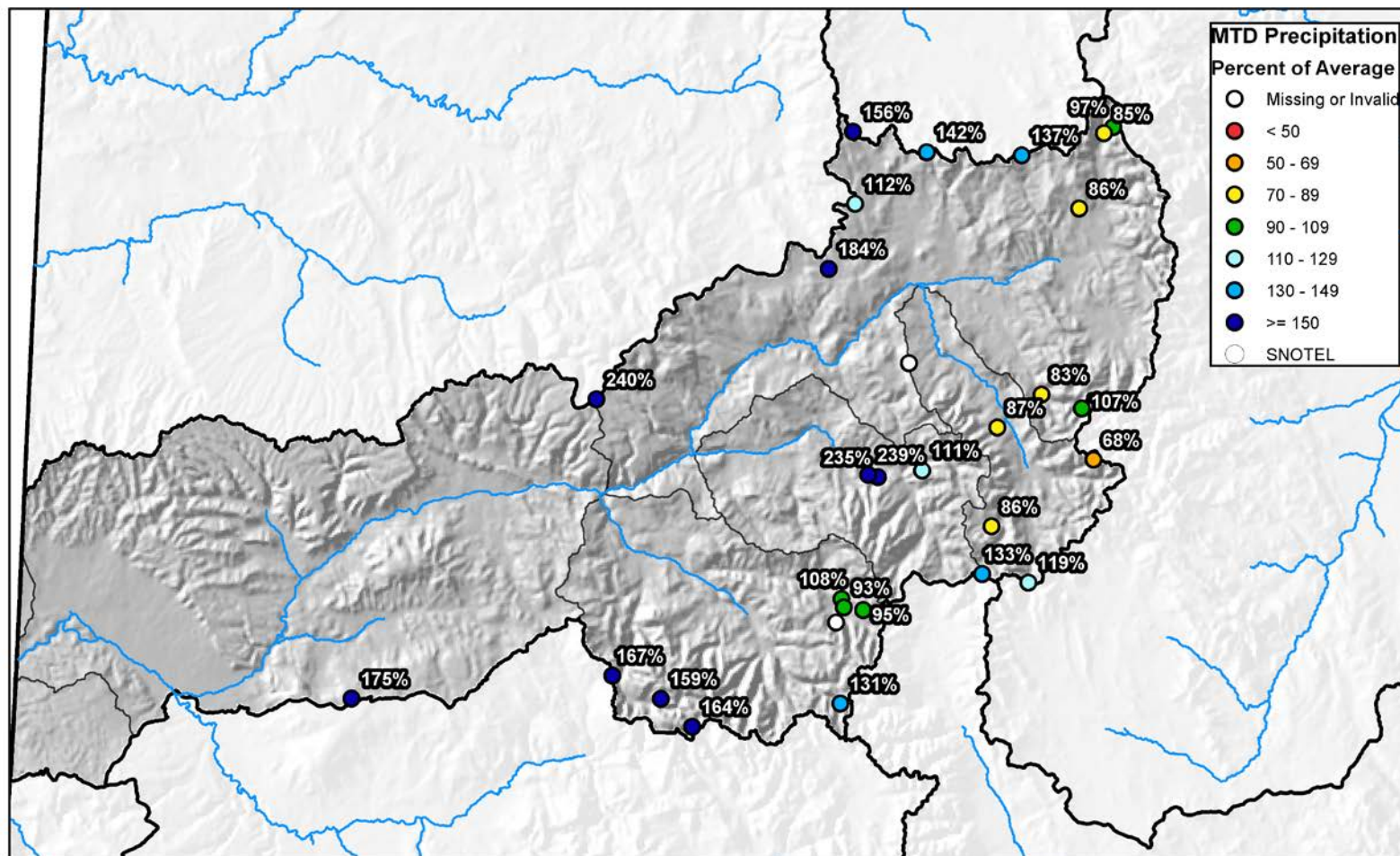
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Upper Colorado River Basin Month to Date Precipitation Summary

Current as of Feb 15, 2019

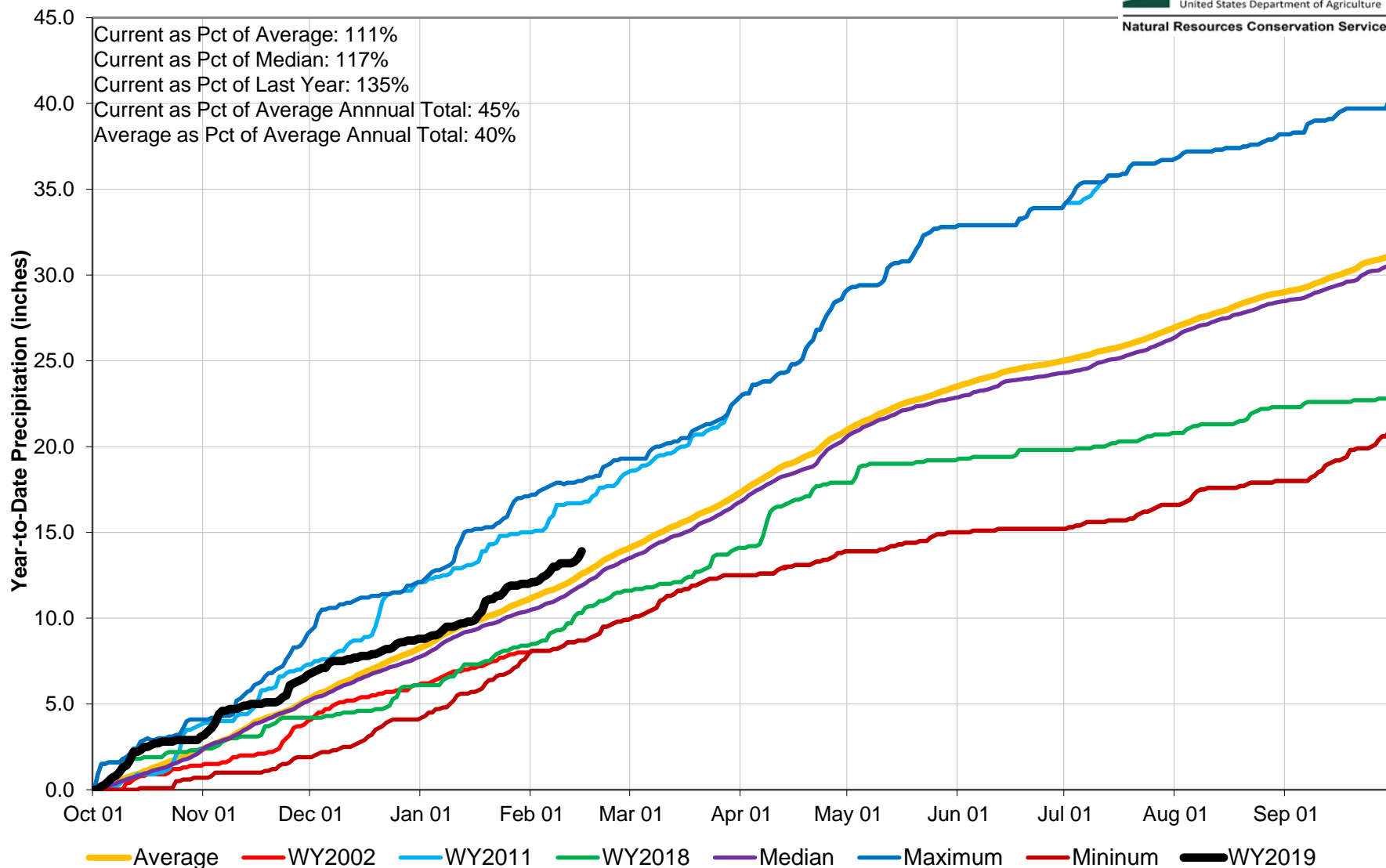


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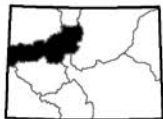
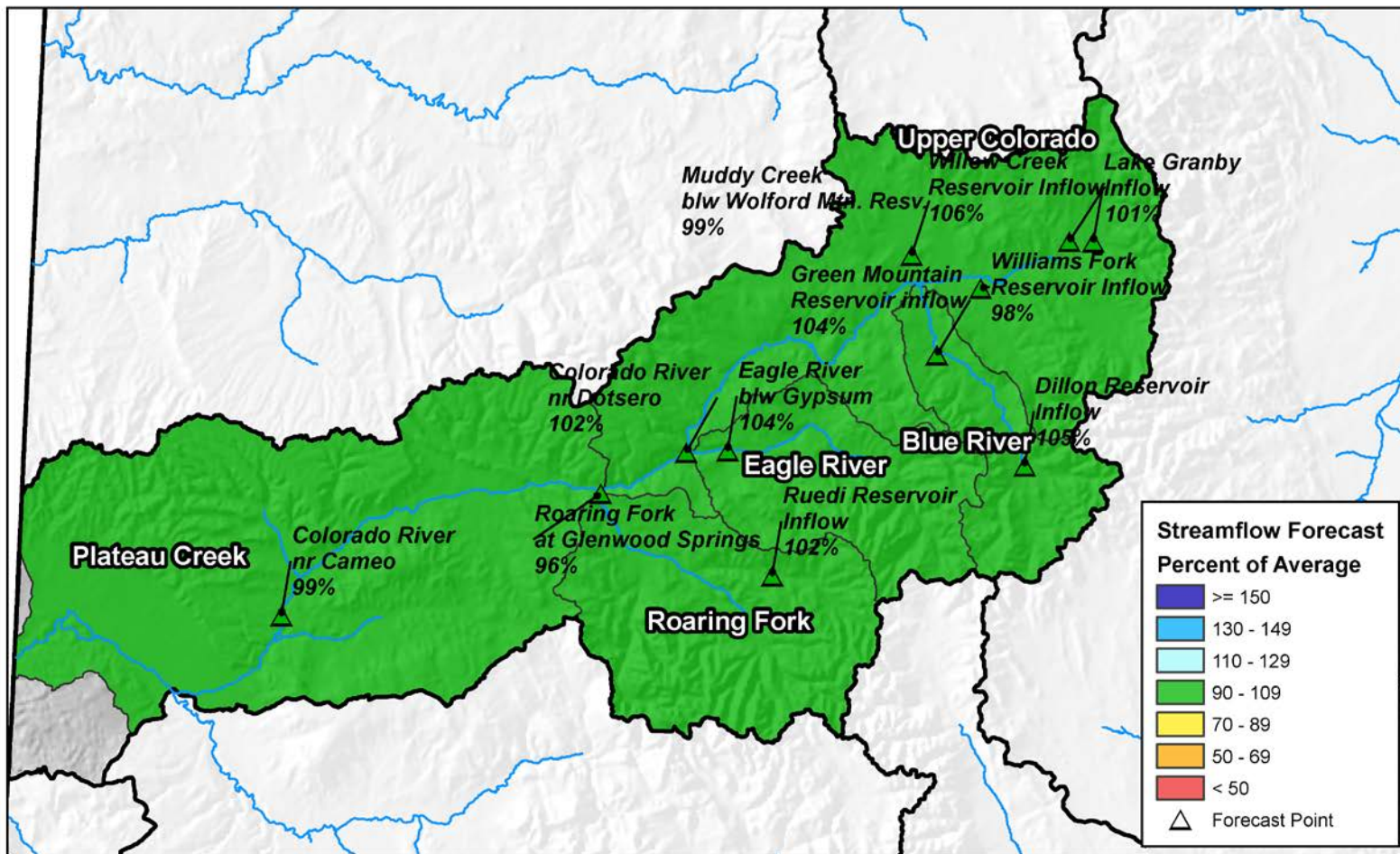
Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 15, 2019



Upper Colorado River Basin Streamflow Forecast Summary

February 1, 2019



0 10 20 40 60 80 Miles



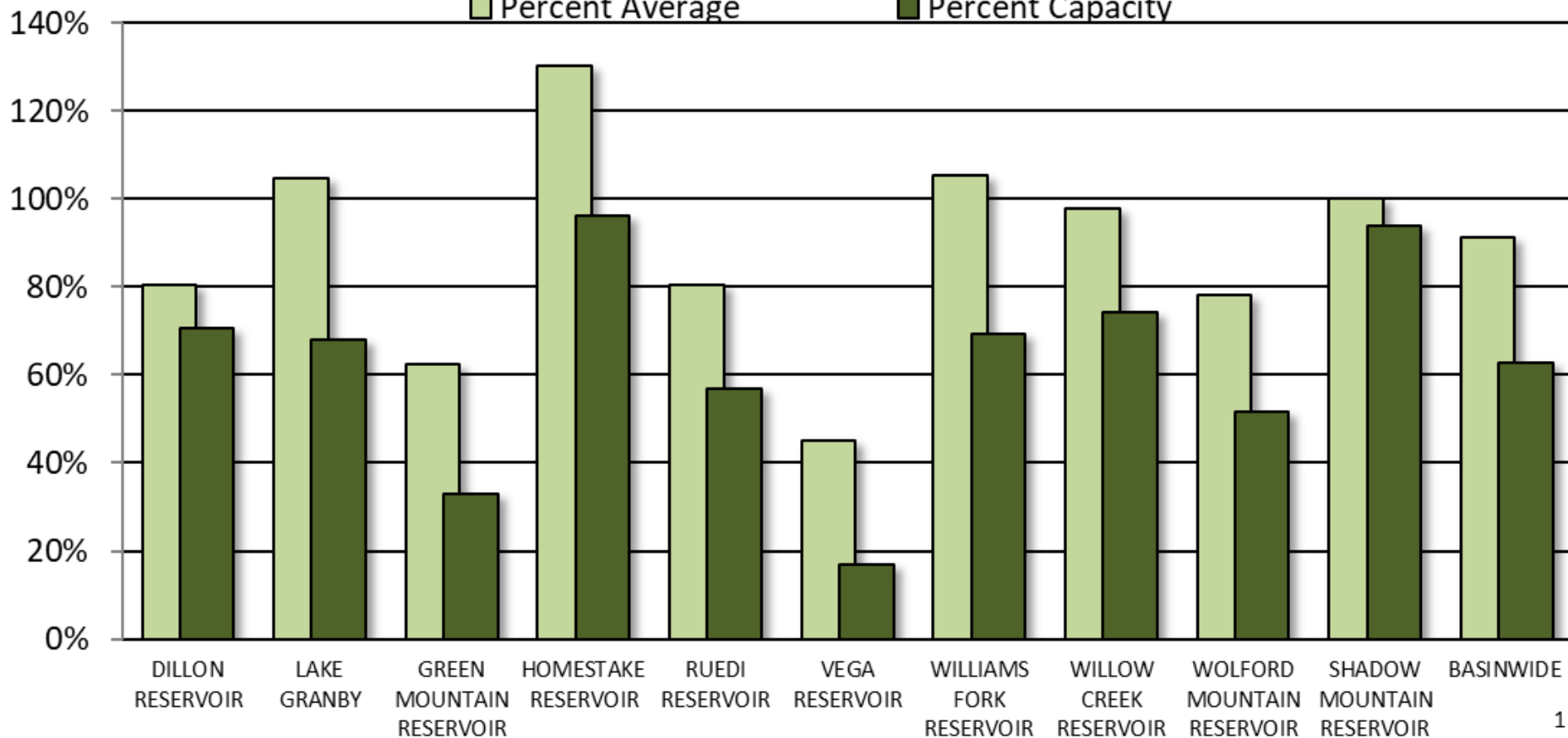
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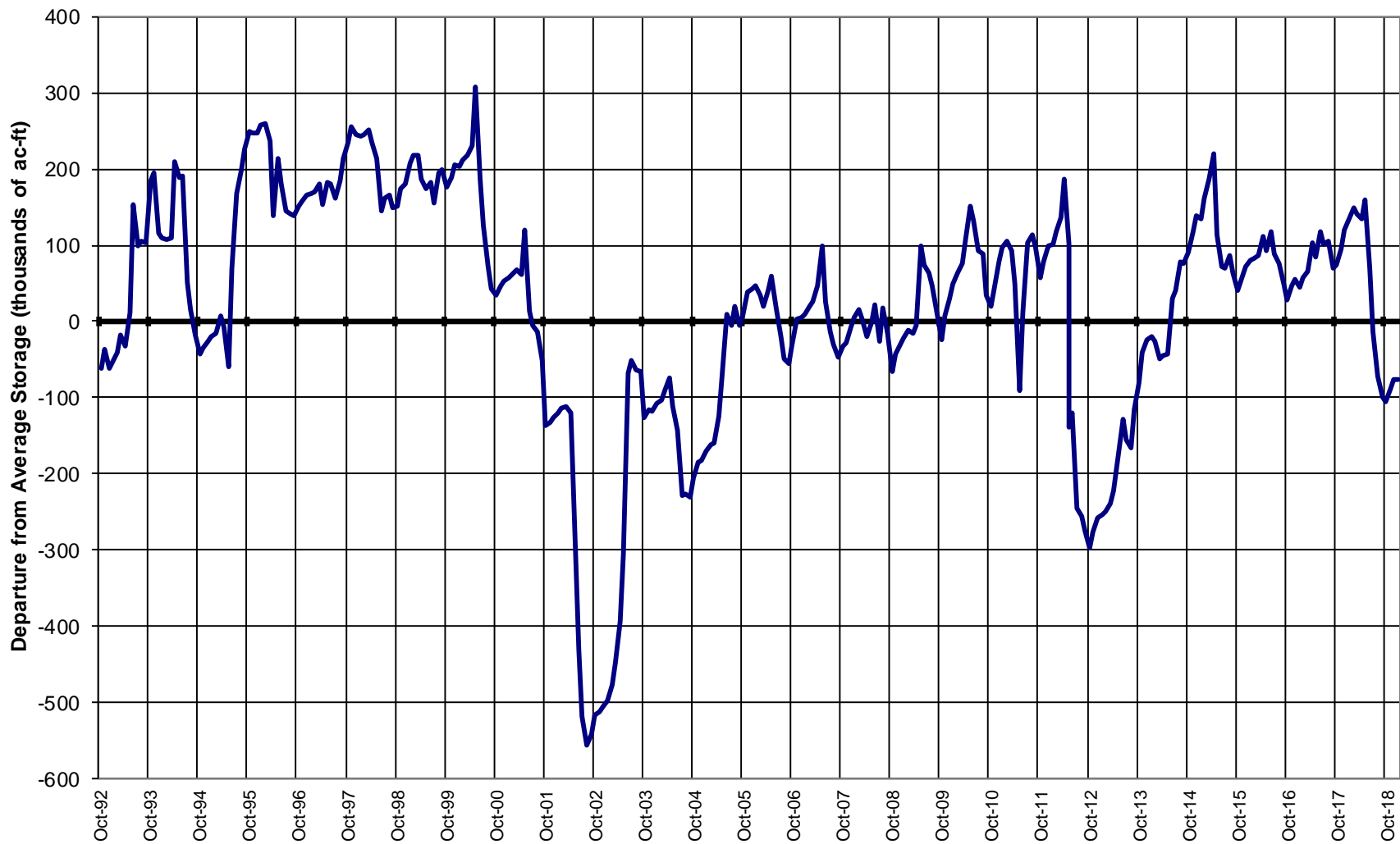
Reservoir Storage

■ Percent Average

■ Percent Capacity



COLORADO RIVER BASIN Reservoir Storage Departure from Average



A map of Colorado showing its major river basins and cities. The basins are labeled in bold black text: Cache La Poudre, Big Thompson, Boulder-St. Vrain, Clear Creek, and Upper South Platte. The basins are shaded in light gray. Major cities are marked with green dots and labeled. The map also shows state boundaries and a network of blue lines representing rivers and streams.

Cache La Poudre

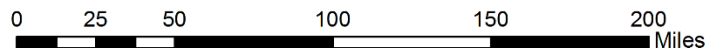
Big Thompson

Boulder-St. Vrain

Clear Creek

Upper South Platte

Cities shown include: Walden, Steamboat Springs, Fort Collins, Greeley, Sterling, Holyoke, Wray, Burlington, Cheyenne Wells, Eads, Ordway, Las Animas, Lamar, La Junta, Walsenburg, Trinidad, San Luis, Conejos, Alamosa, Del Norte, Creede, Silverton, Telluride, Ouray, Lake City, Durango, Cortez, Dove Creek, Montrose, Gunnison, Salida, Cripple Creek, Colorado Springs, Hugo, Kiowa, Castle Rock, Littleton, Golden, Georgetown, Boulder, Brighton, Hot Sulphur Springs, Breckenridge, Fairplay, Leadville, Aspen, Glenwood Springs, Eagle, Meeker, Craig, Grand Junction, Delta, and Julesburg.





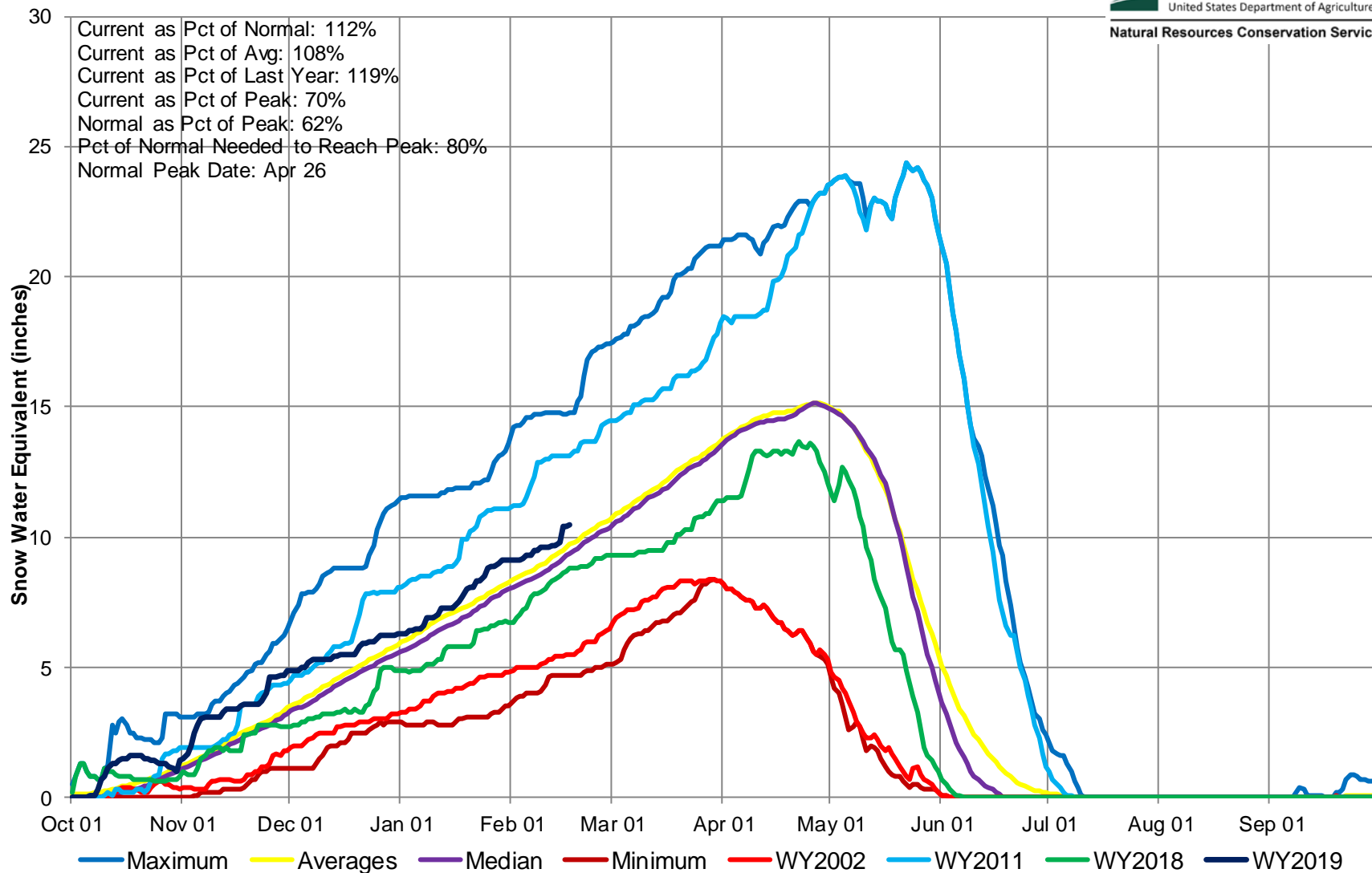
South Platte River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



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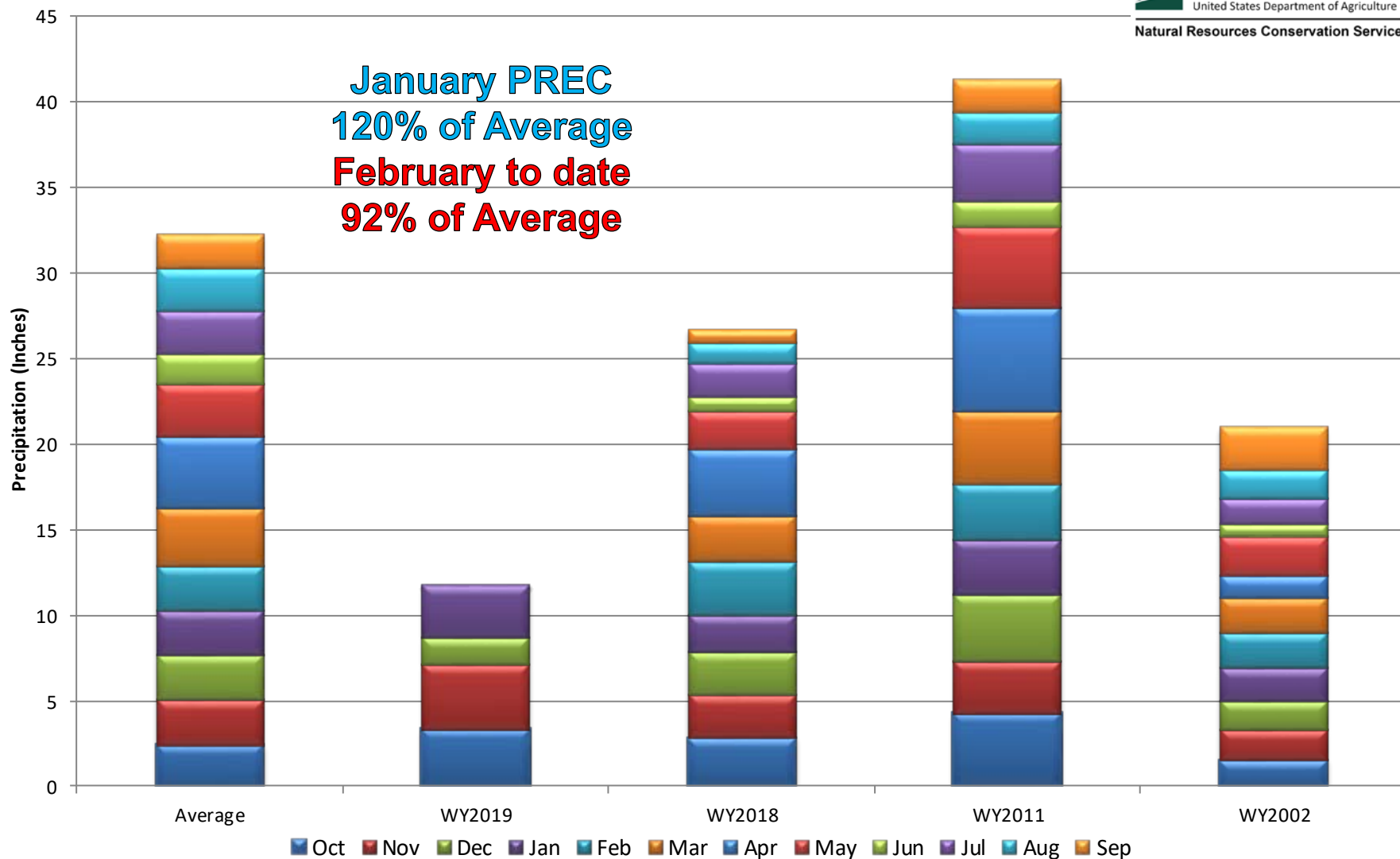
South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



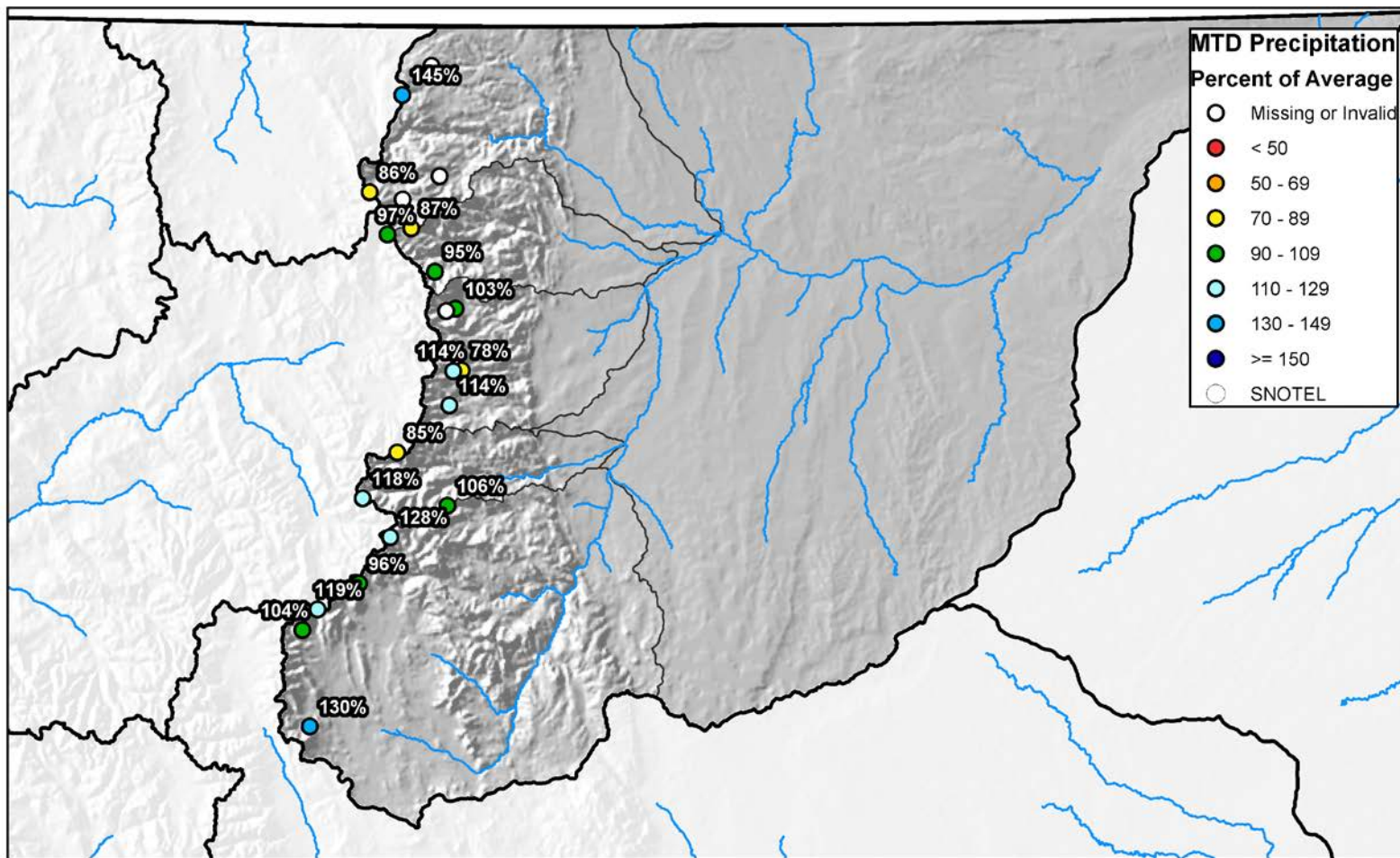
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South Platte River Basin Month to Date Precipitation Summary

Current as of Feb 15, 2019

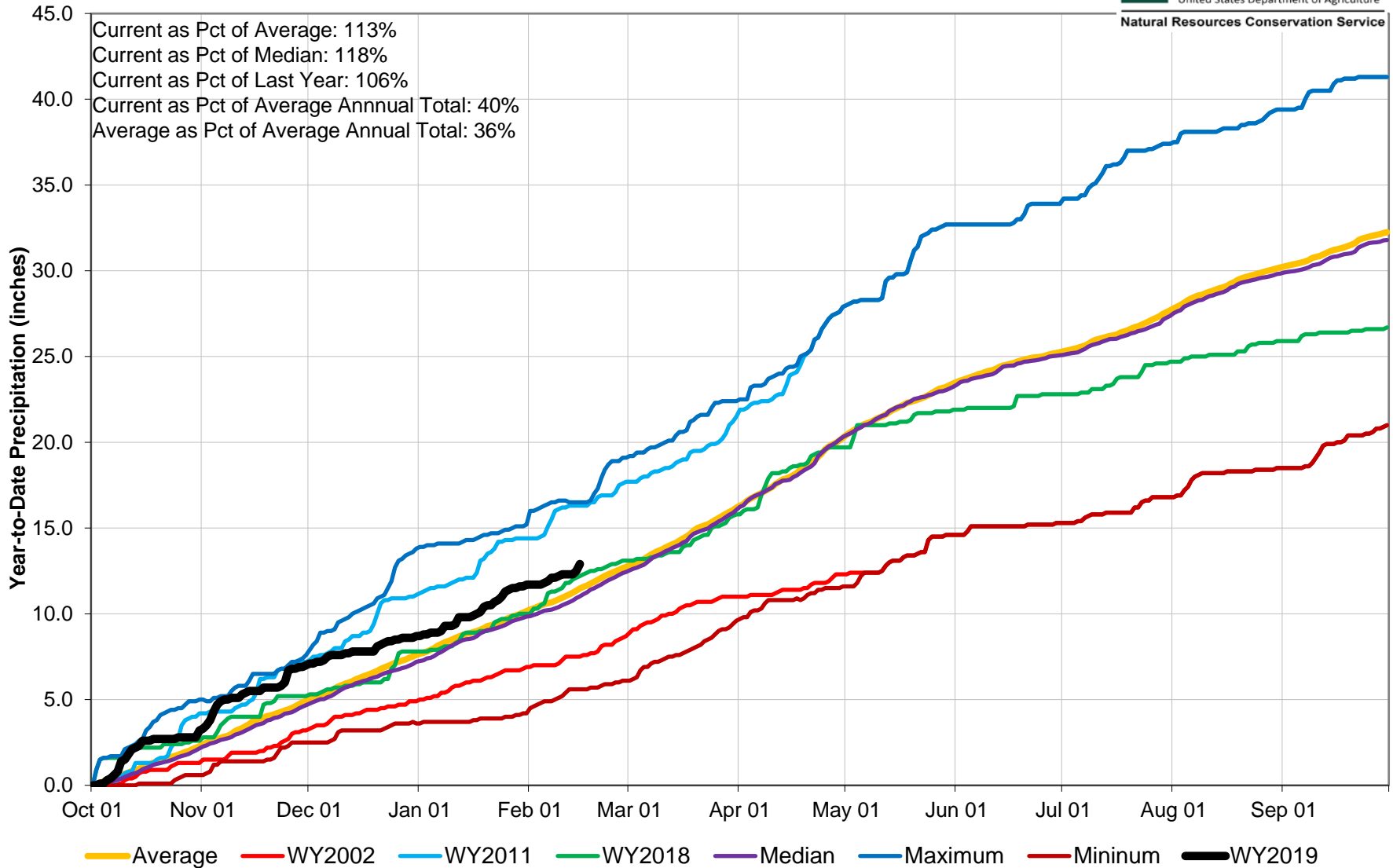


0 10 20 40 60 80 Miles



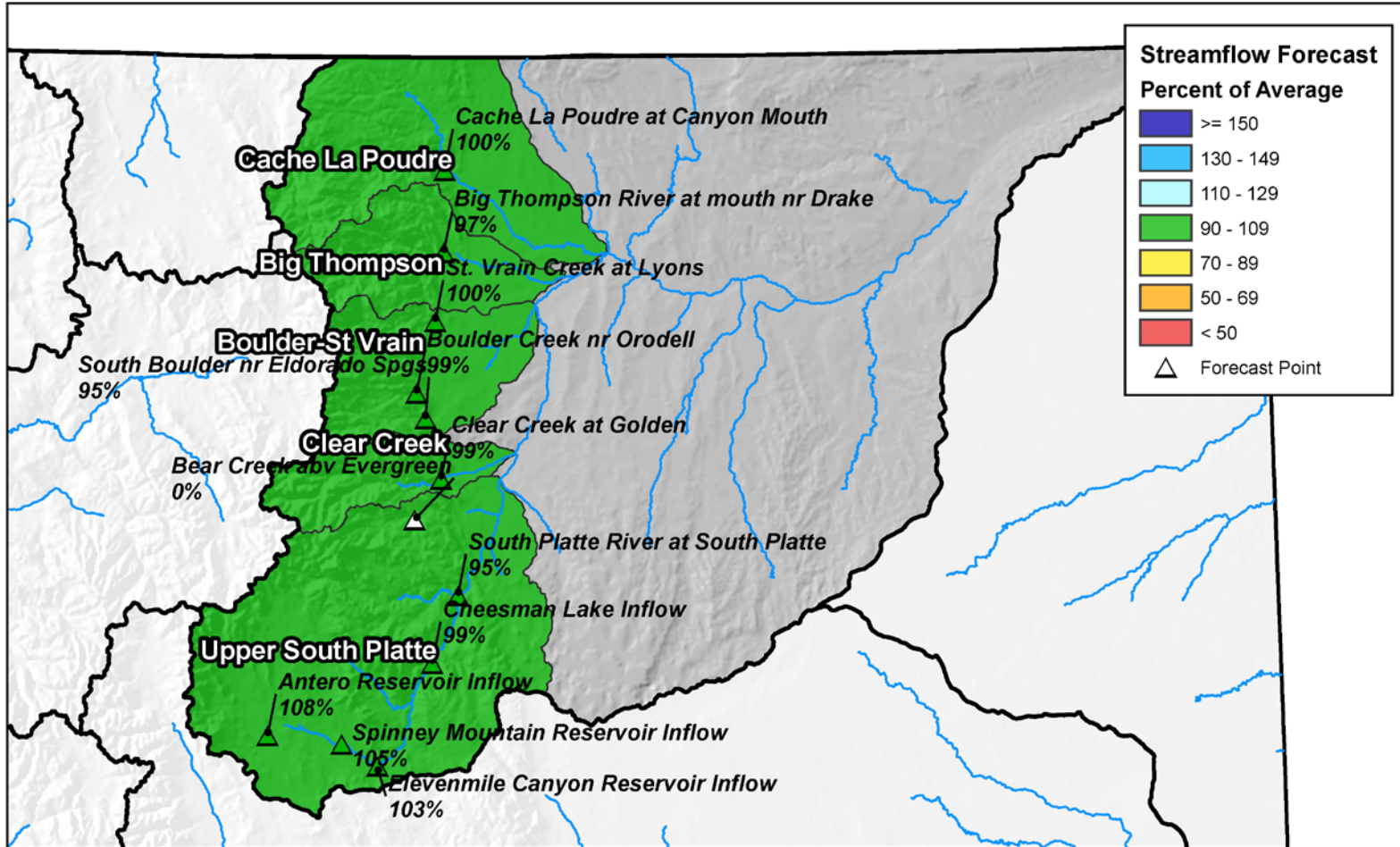
South Platte River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 15, 2019

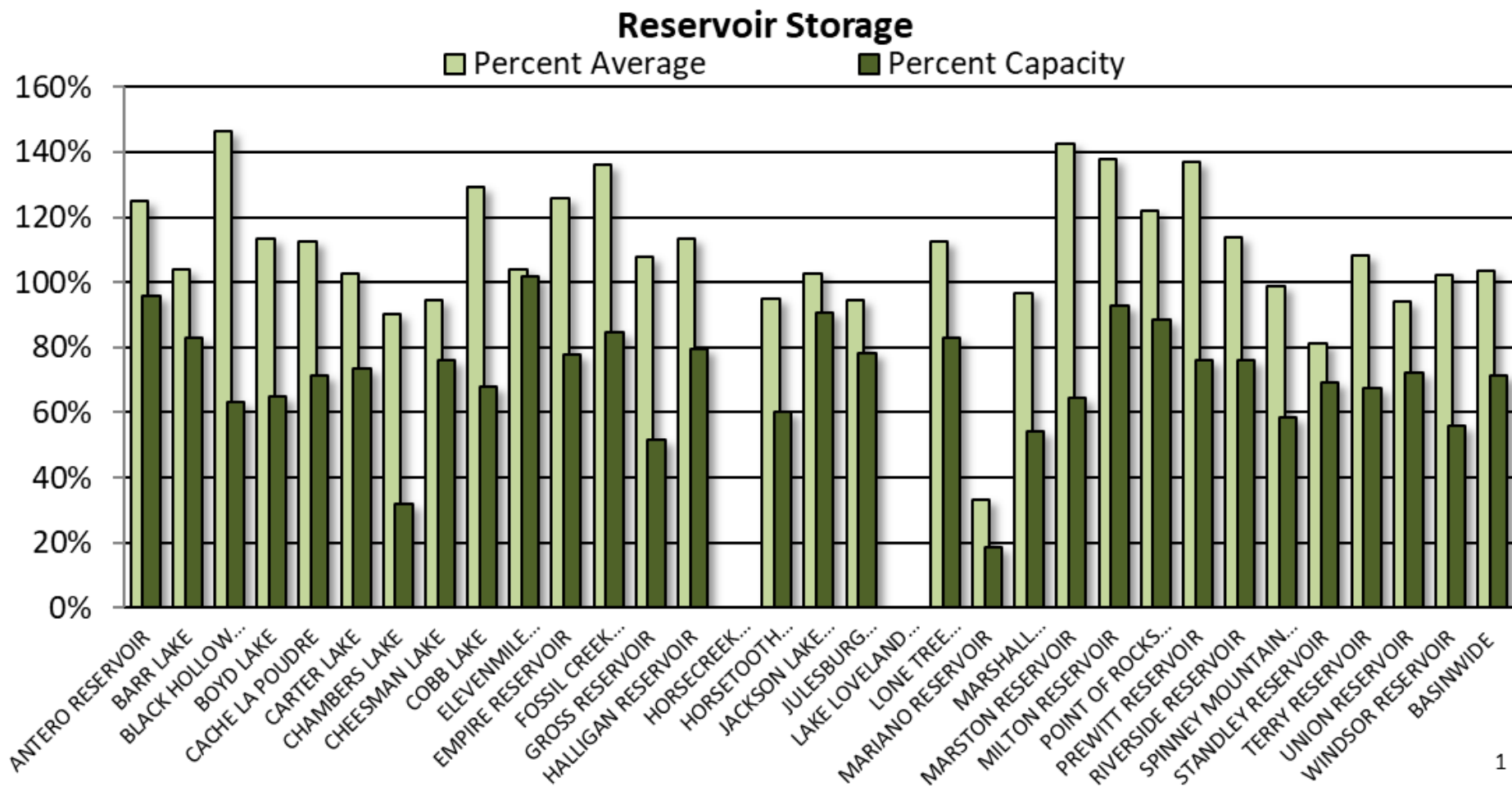


South Platte River Basin Streamflow Forecast Summary

February 1, 2019

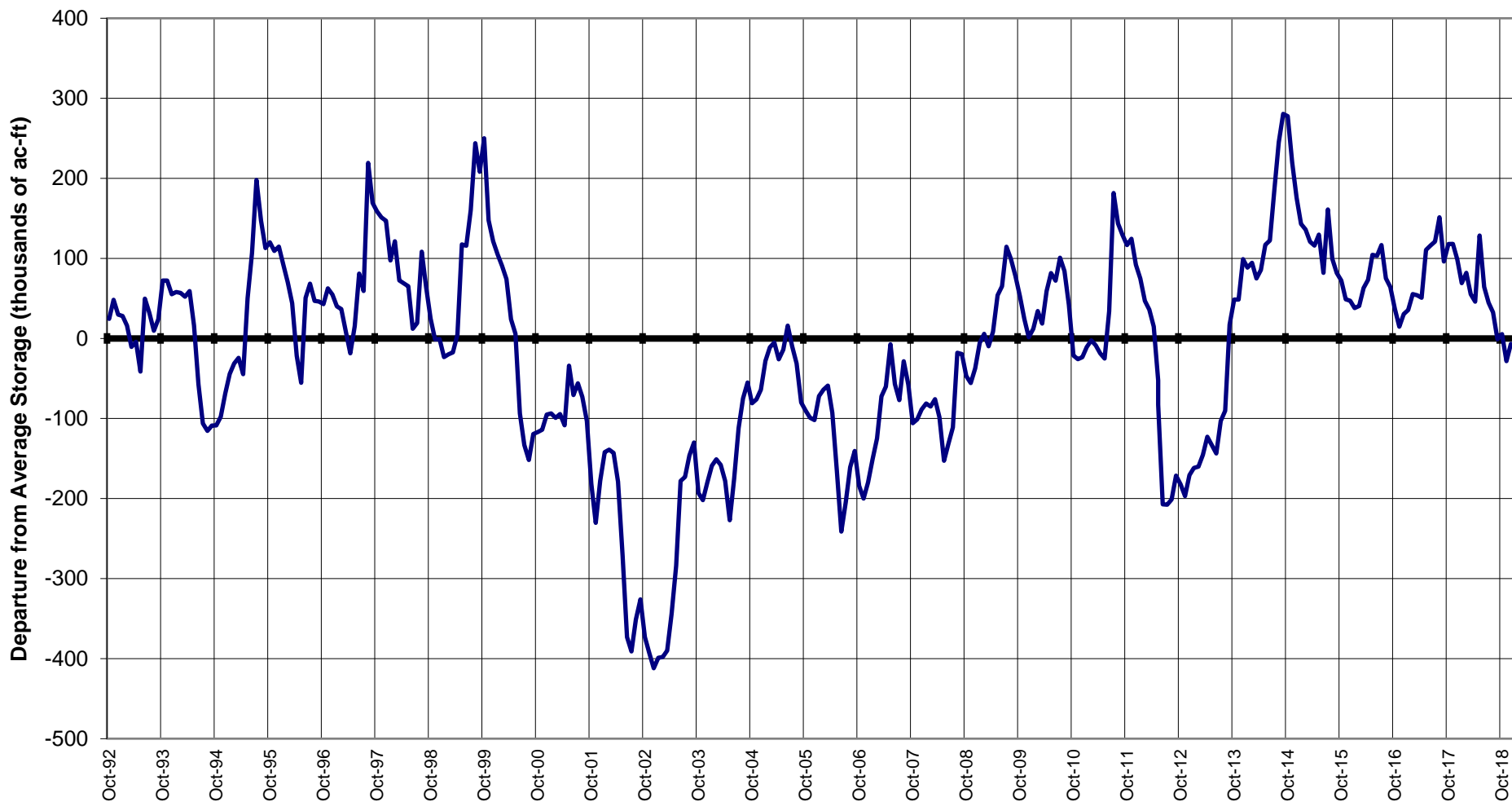


0 12.5 25 50 75 100 Miles



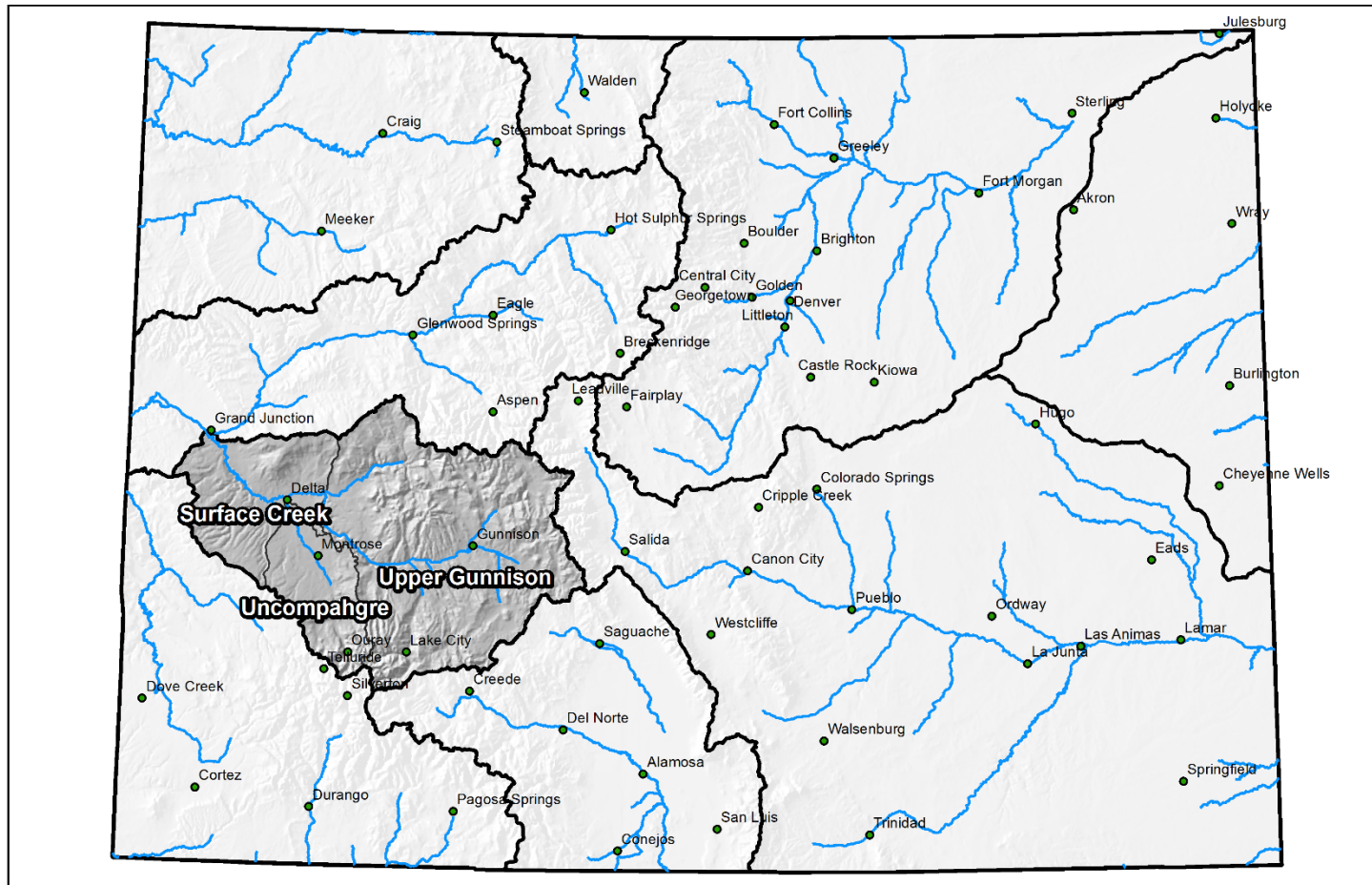


SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

Gunnison River Basin



0 25 50 100 150 200 Miles



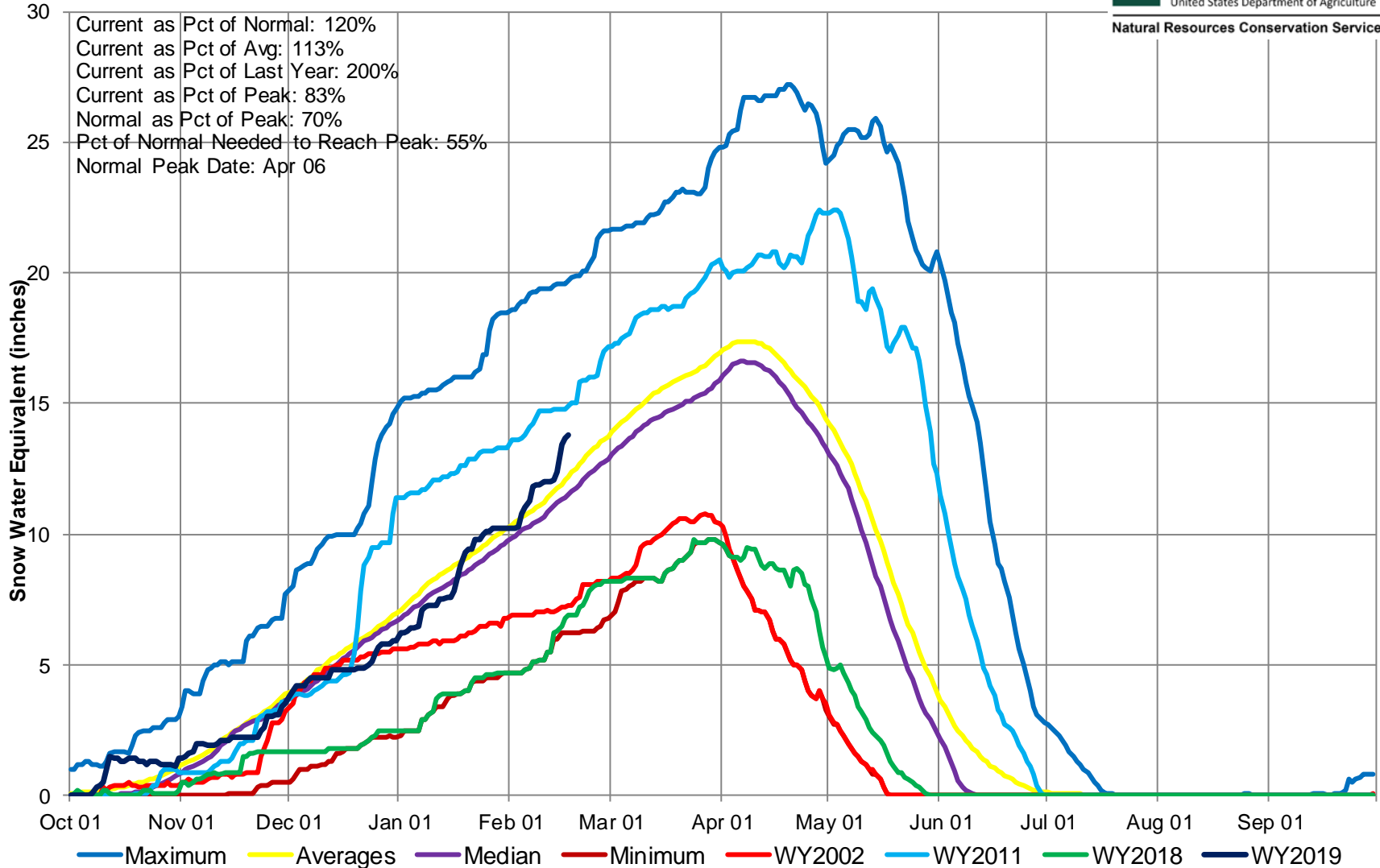
Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



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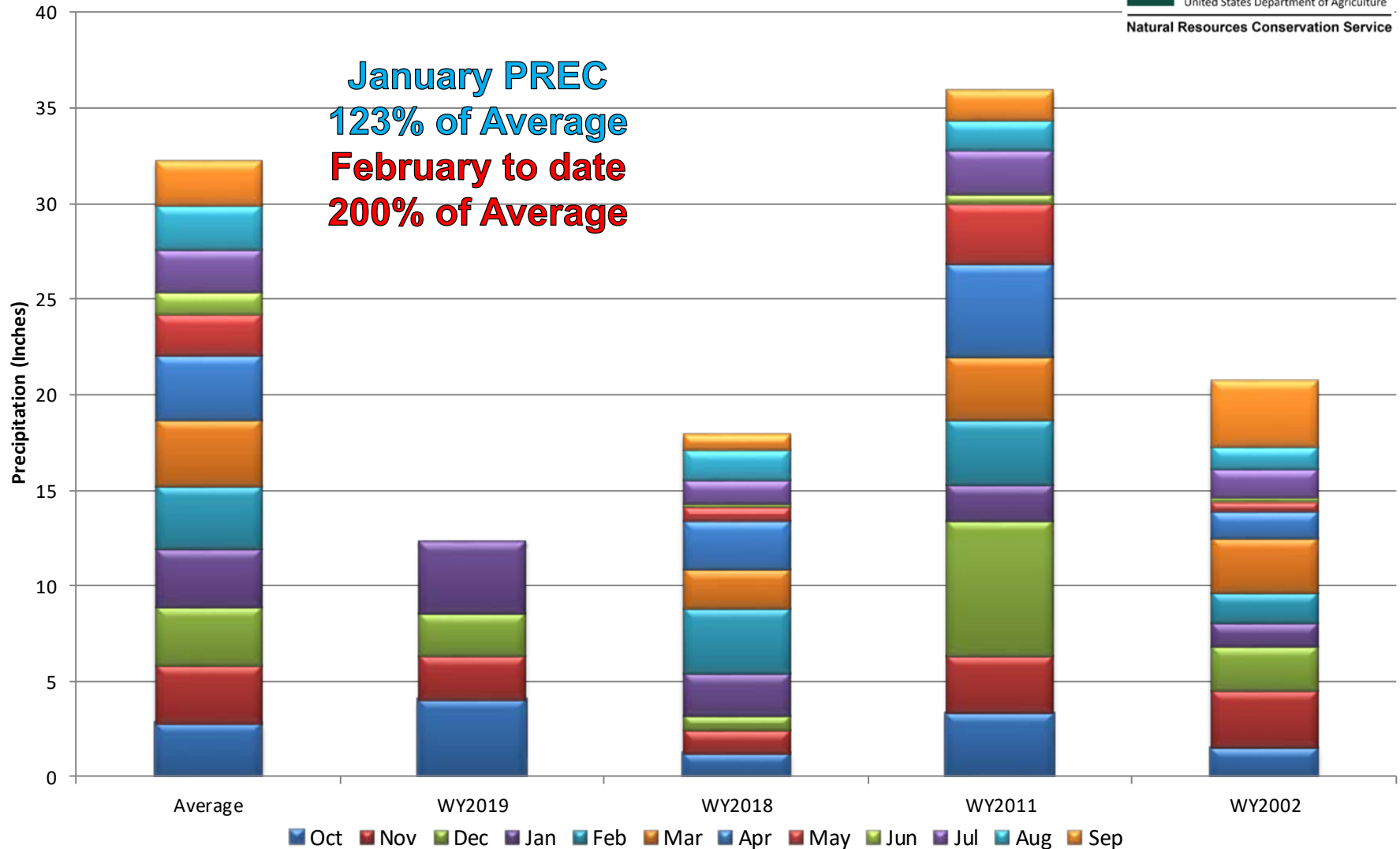
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



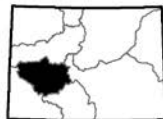
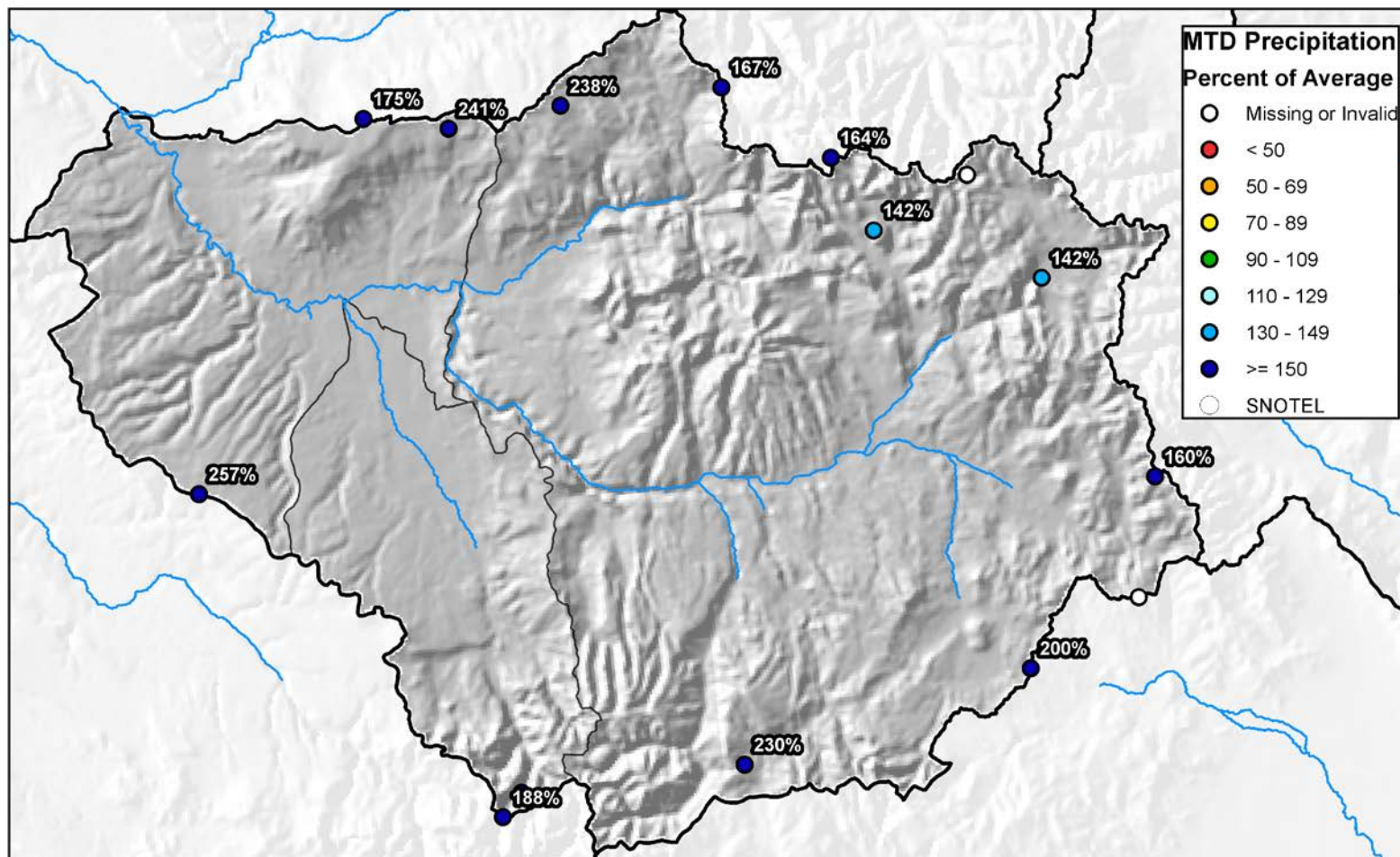
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Gunnison River Basin Month to Date Precipitation Summary

Current as of Feb 15, 2019



0 5 10 20 30 40 Miles



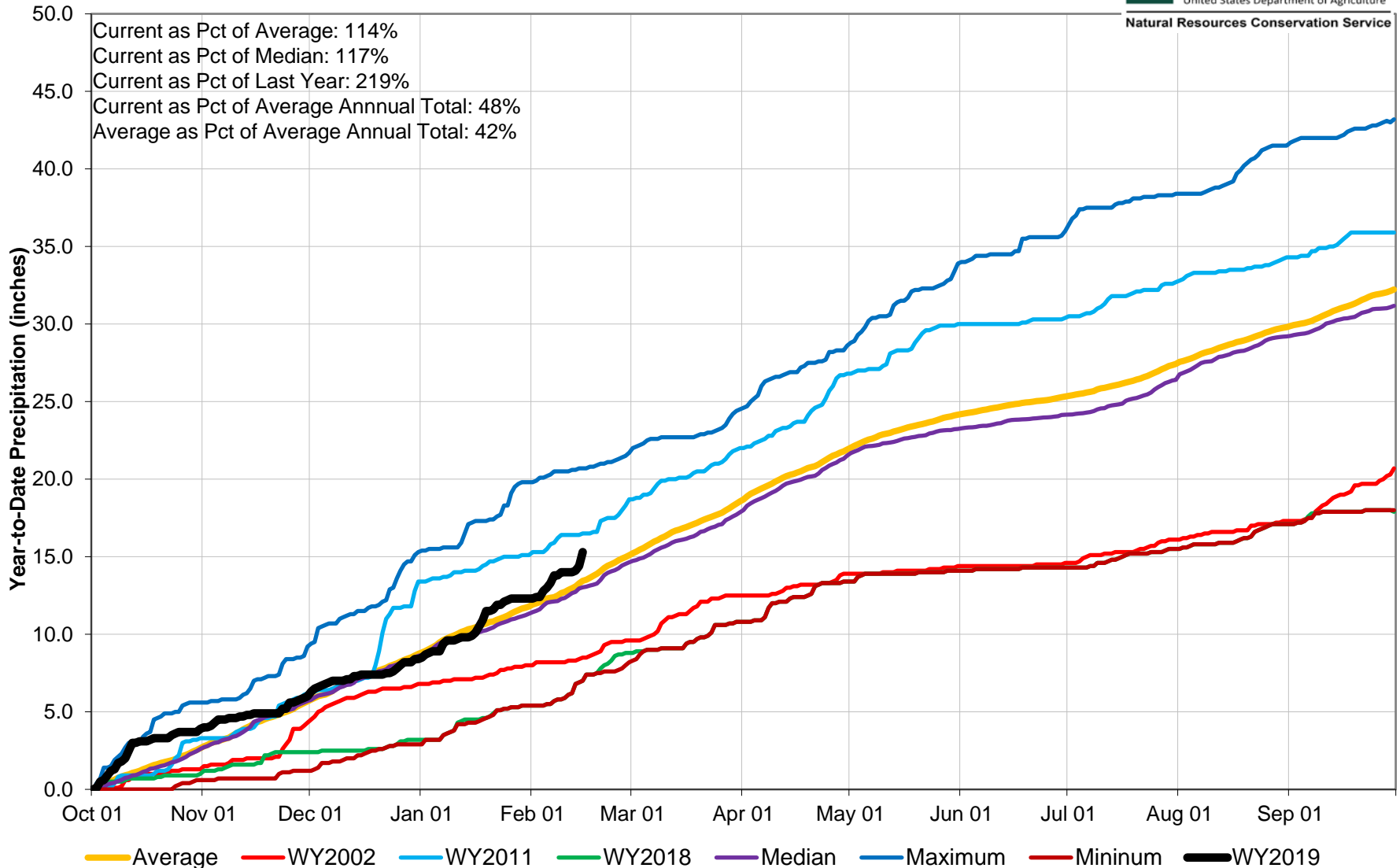
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Gunnison River Basin High/Low Year-to-Date Precipitation Summary

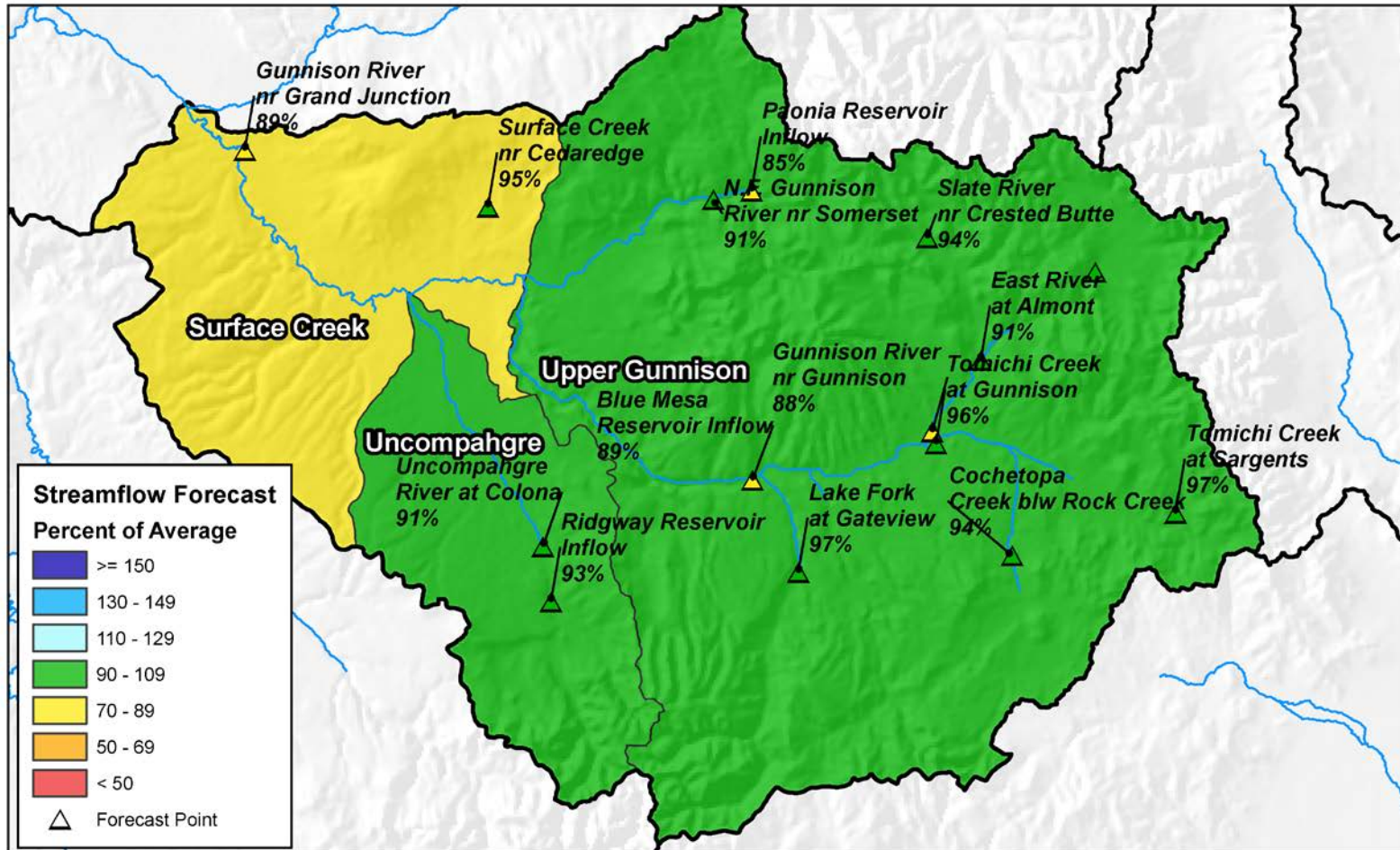
Based on Provisional SNOTEL data as of Feb 15, 2019

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Gunnison River Basin Water Supply Forecast Summary

February 1, 2019

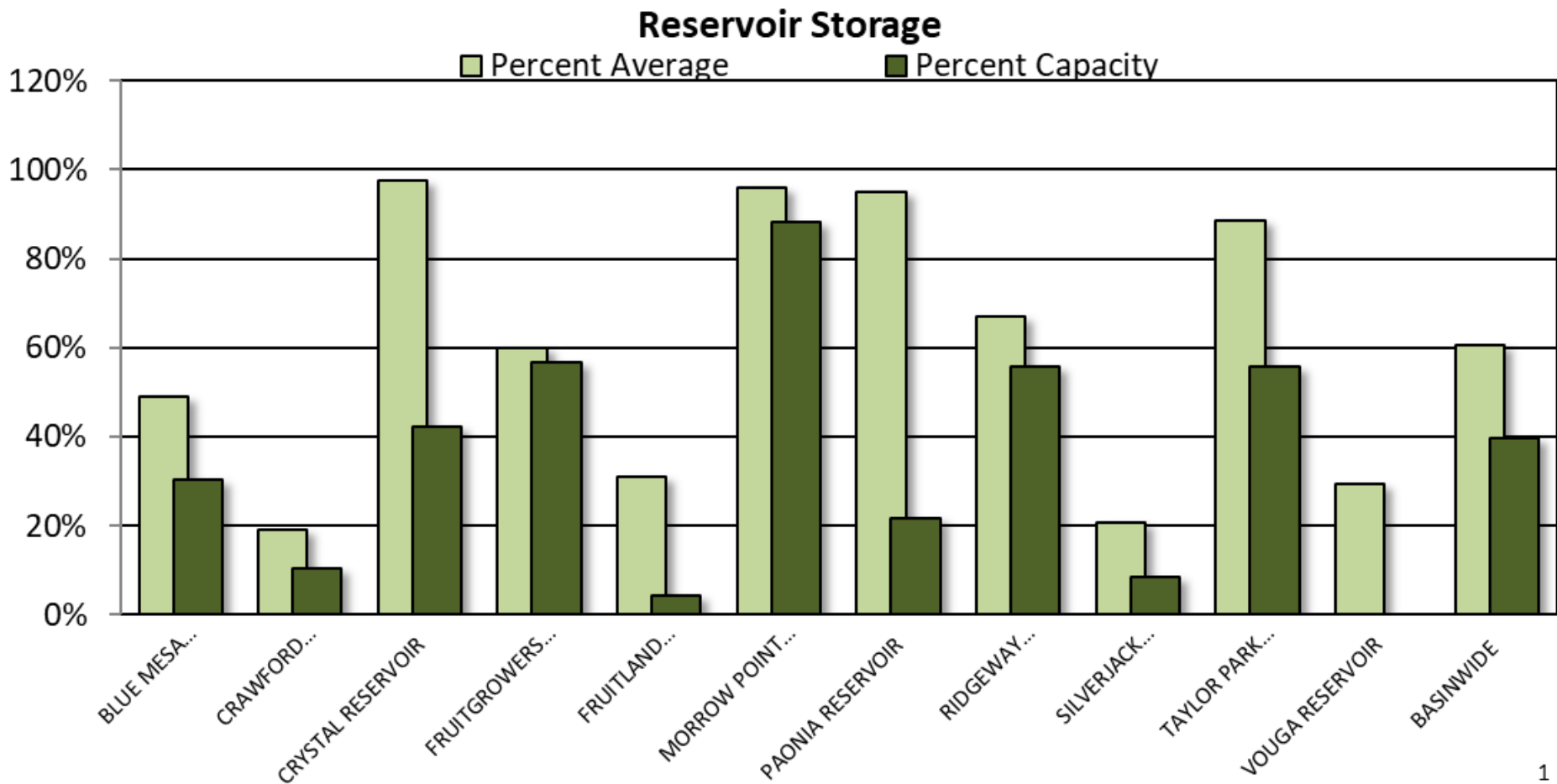


0 5 10 20 30 40 Miles



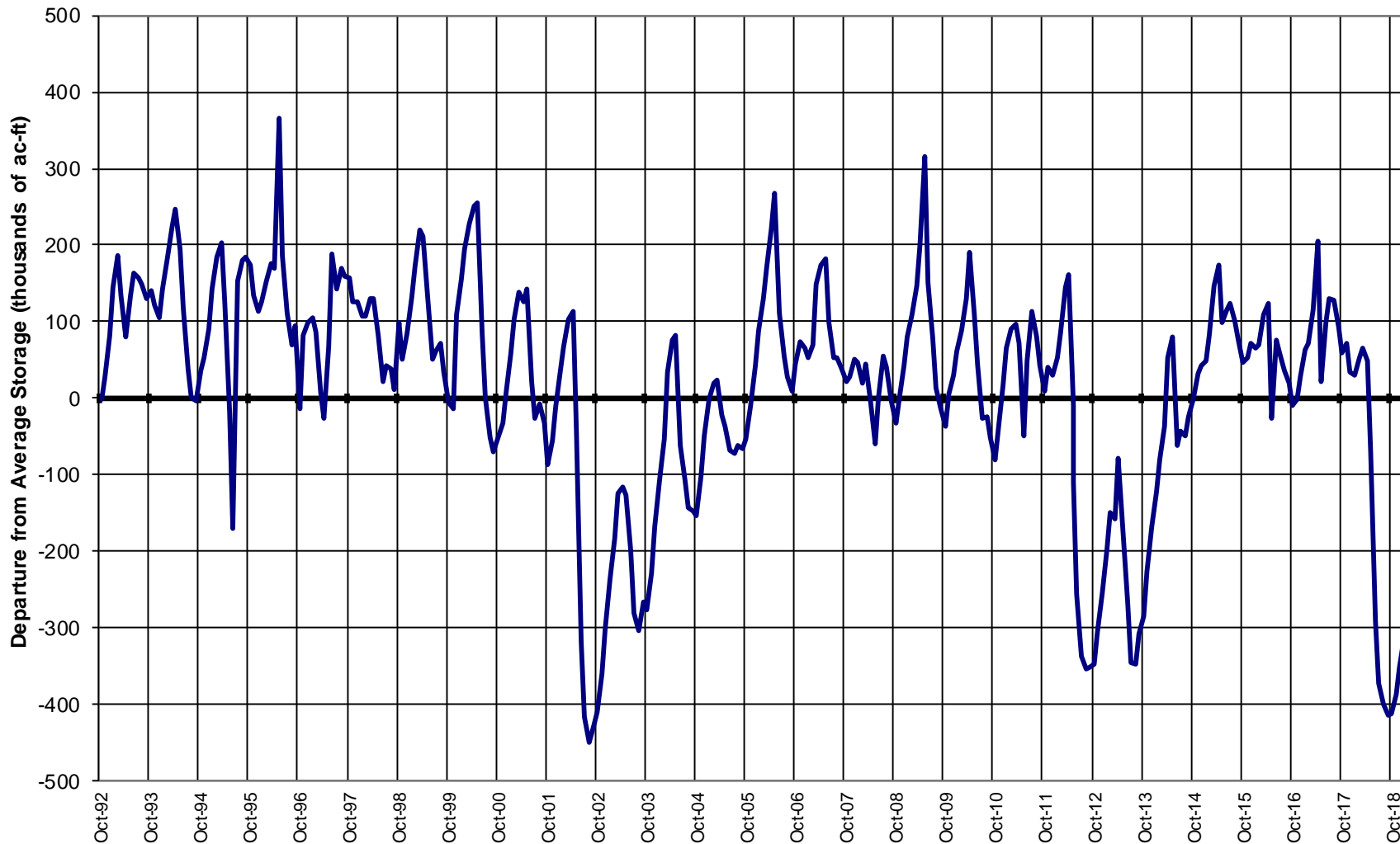
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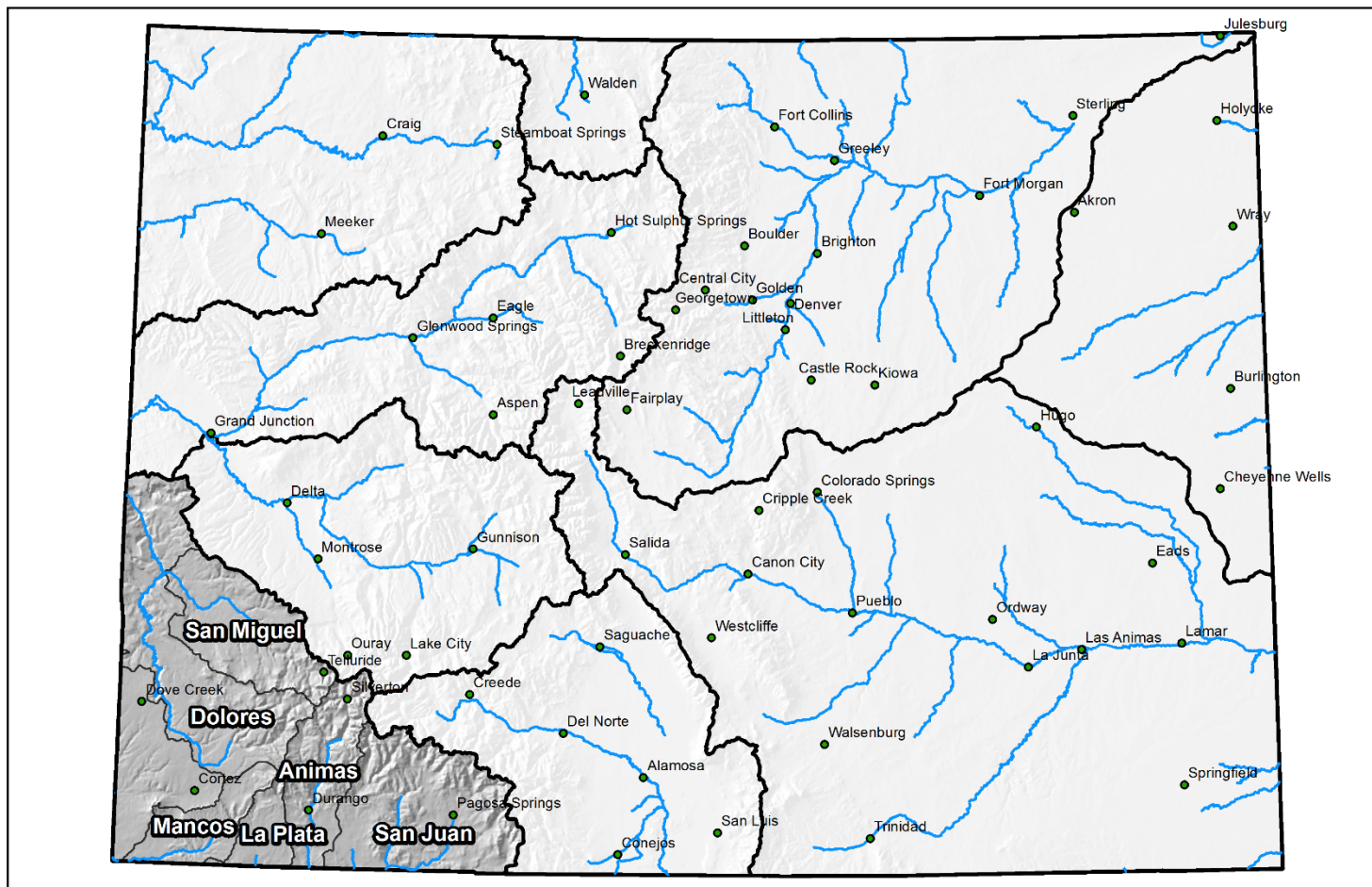


GUNNISON RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

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



0 25 50 100 150 200 Miles

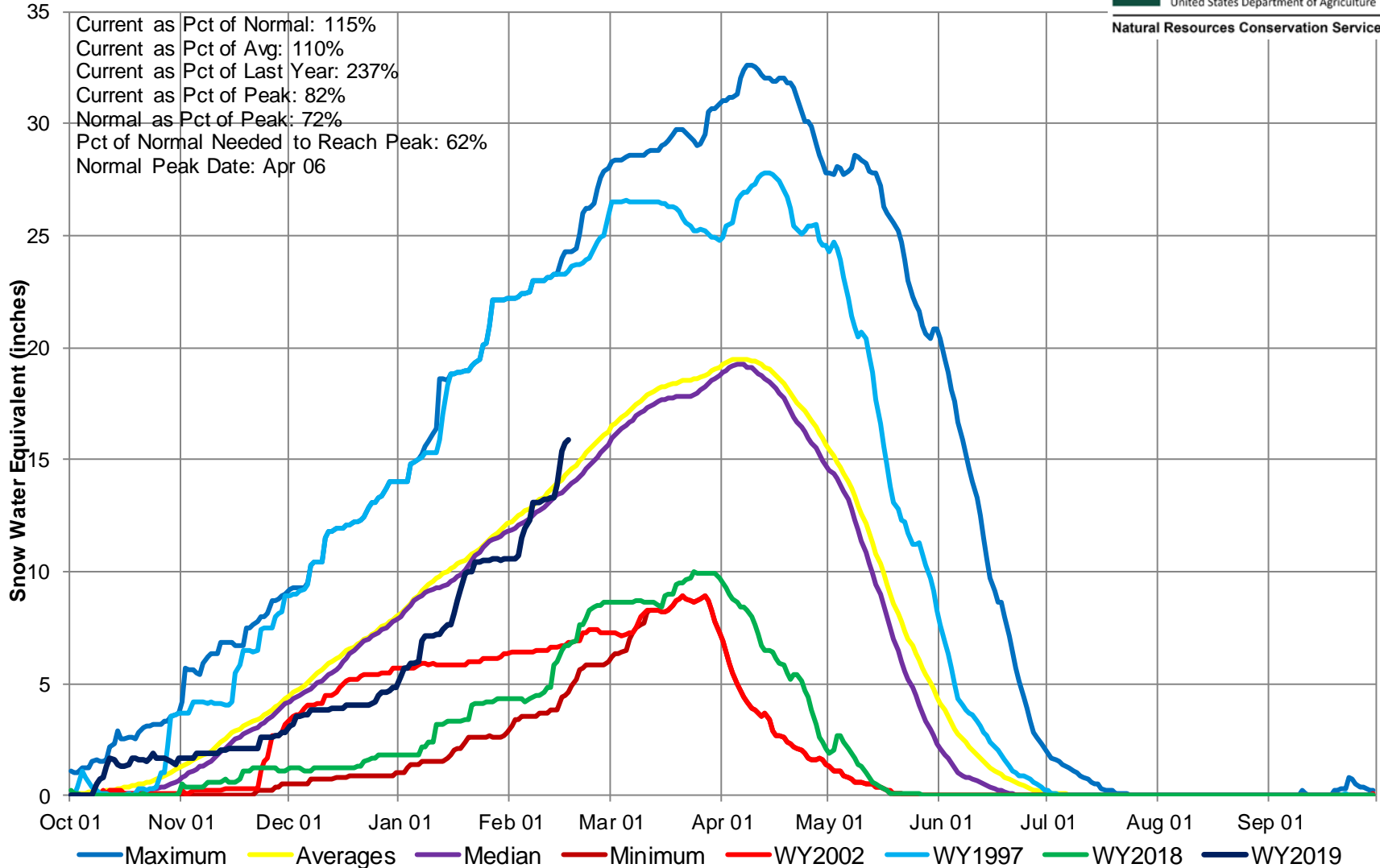
San Miguel, Dolores, Animas and San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



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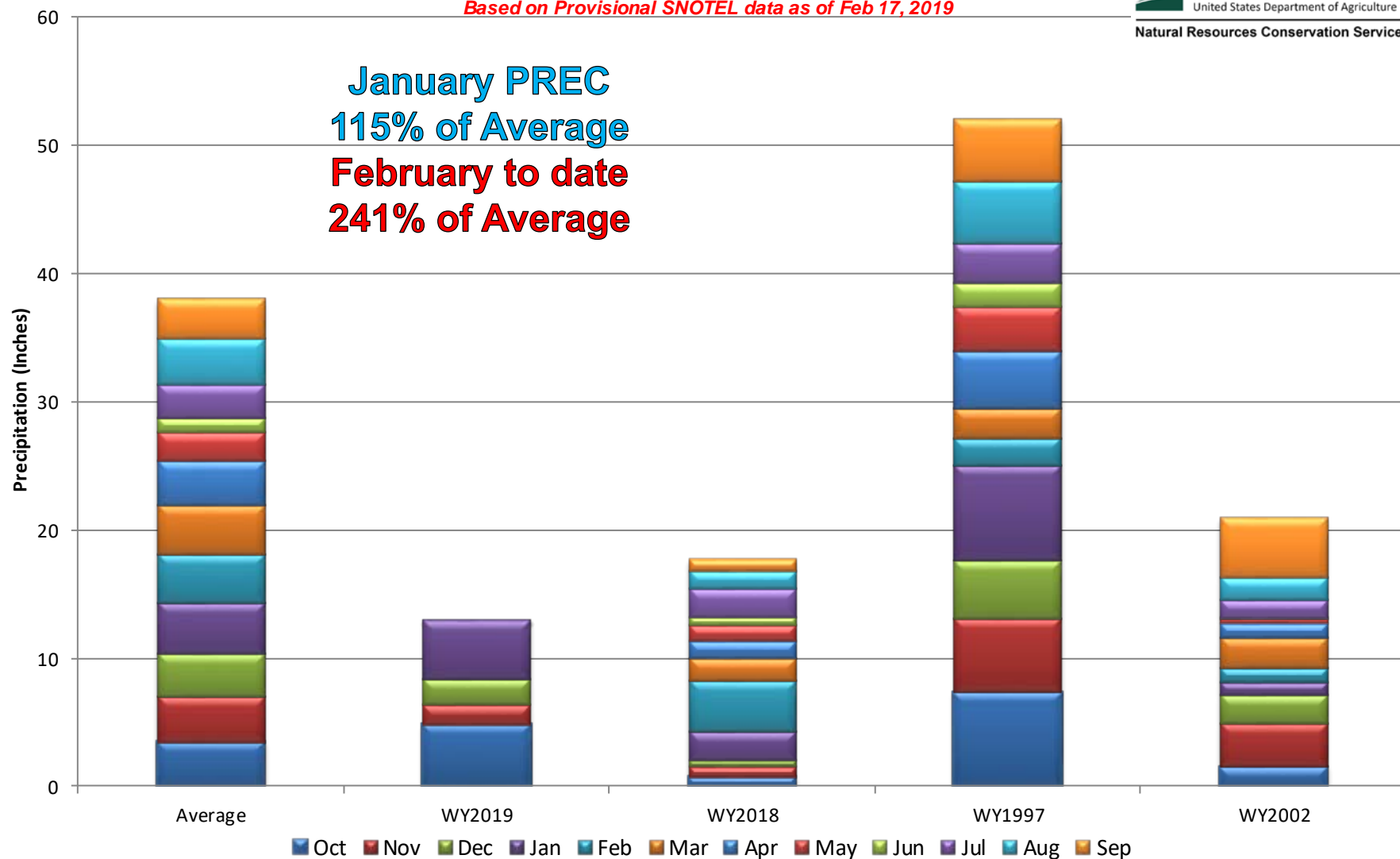
San Miguel, Dolores, Animas and San Juan River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



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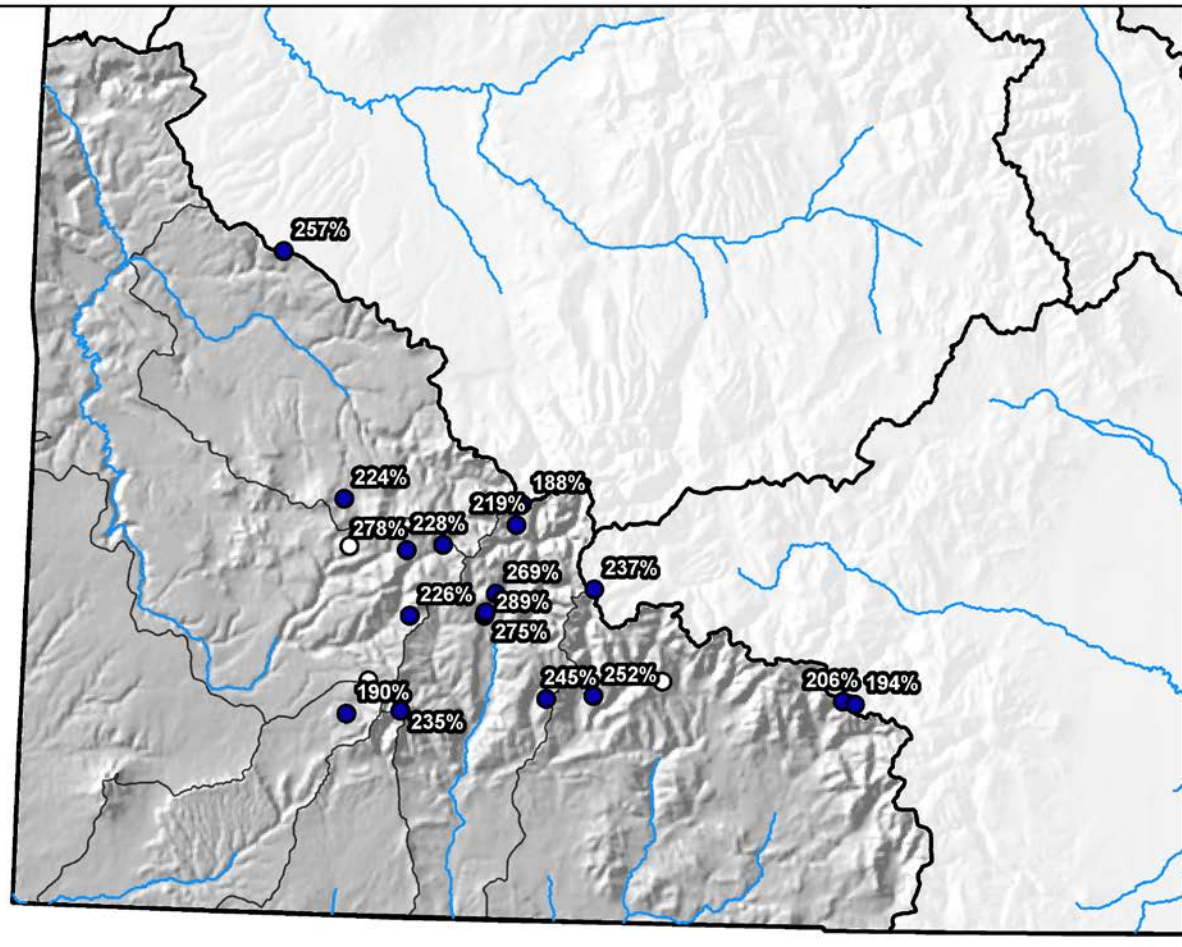


San Miguel, Dolores, Animas, and San Juan River Basins Month to Date Precipitation Summary

Current as of Feb 15, 2019

MTD Precipitation Percent of Average

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

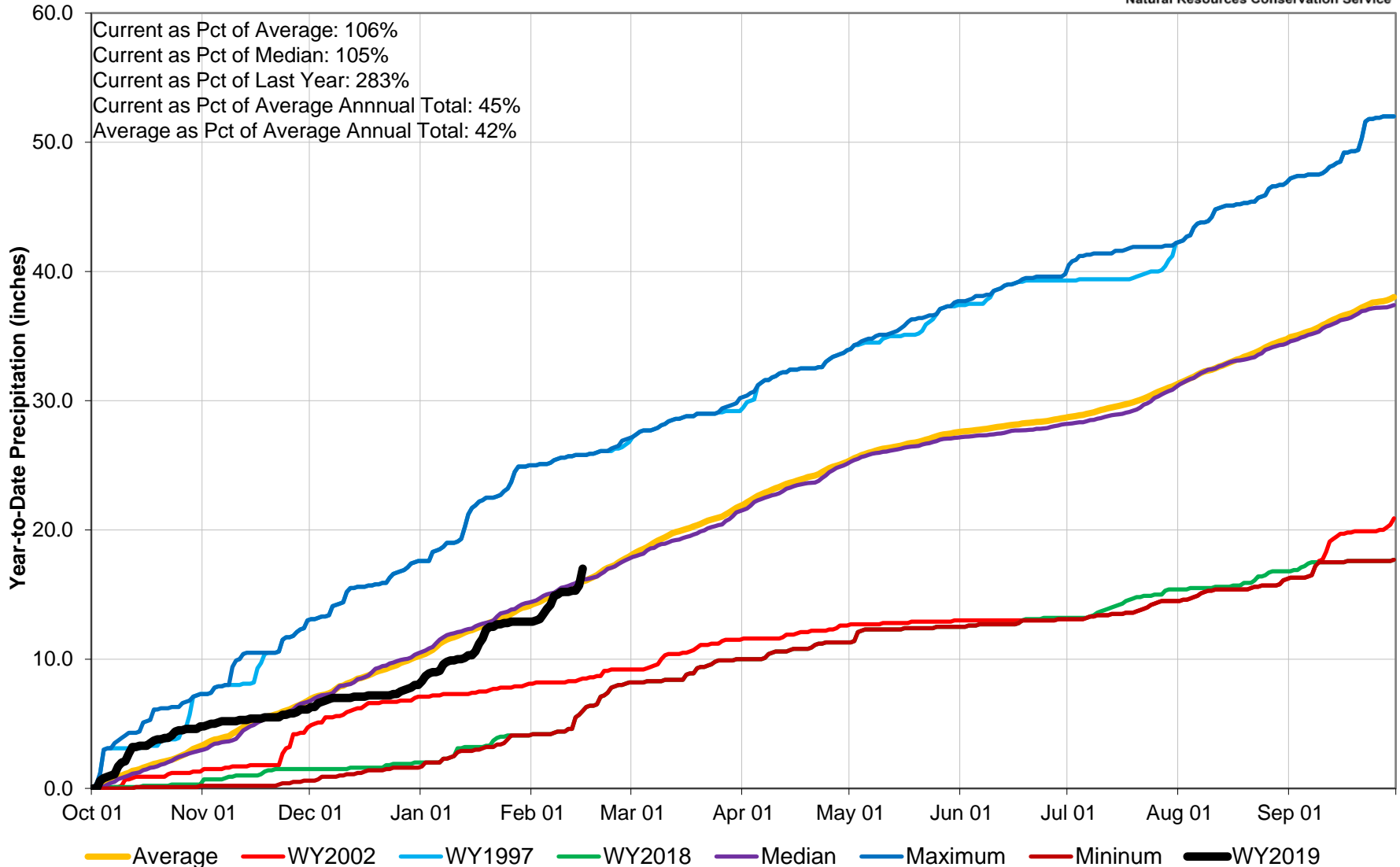


0 10 20 40 60 80 Miles



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

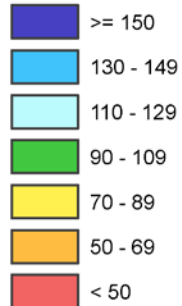
Based on Provisional SNOTEL data as of Feb 15, 2019



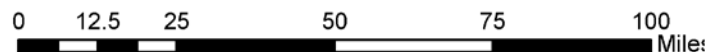
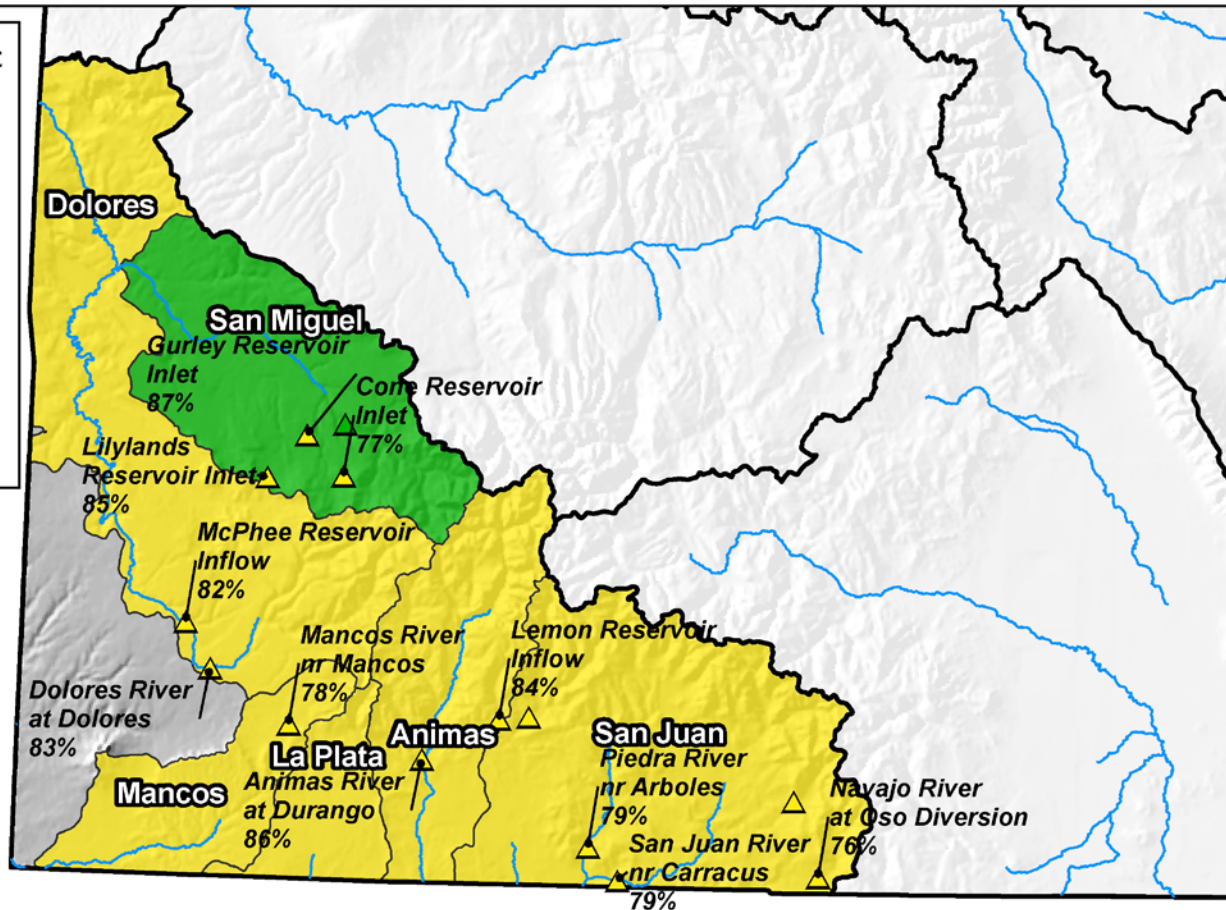
San Miguel, Dolores, Animas, and San Juan River Basins Streamflow Forecast Summary

February 1, 2019

Streamflow Forecast Percent of Average



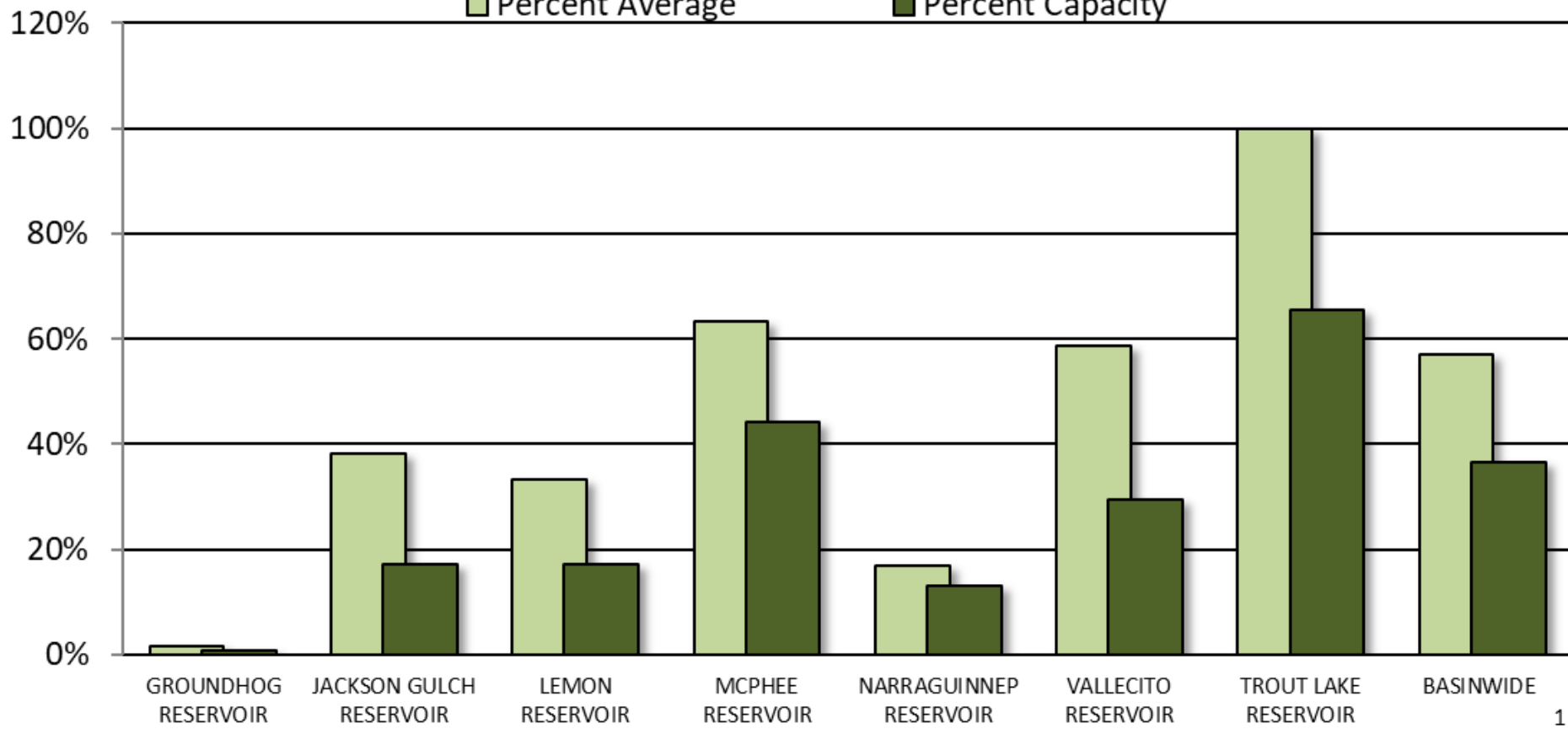
Forecast Point



Reservoir Storage

■ Percent Average

■ Percent Capacity

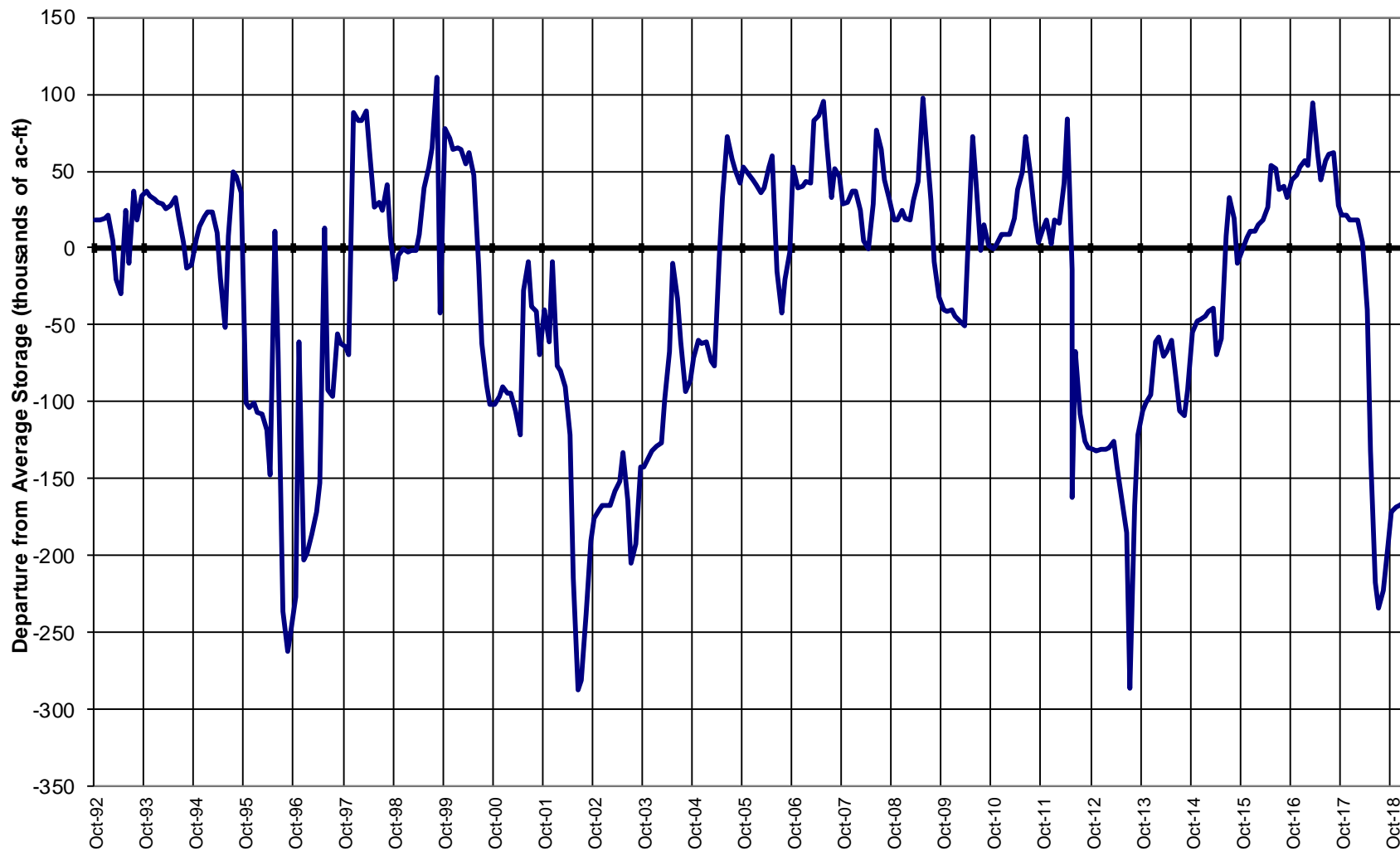




SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

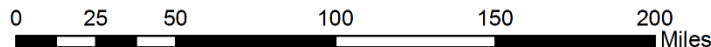
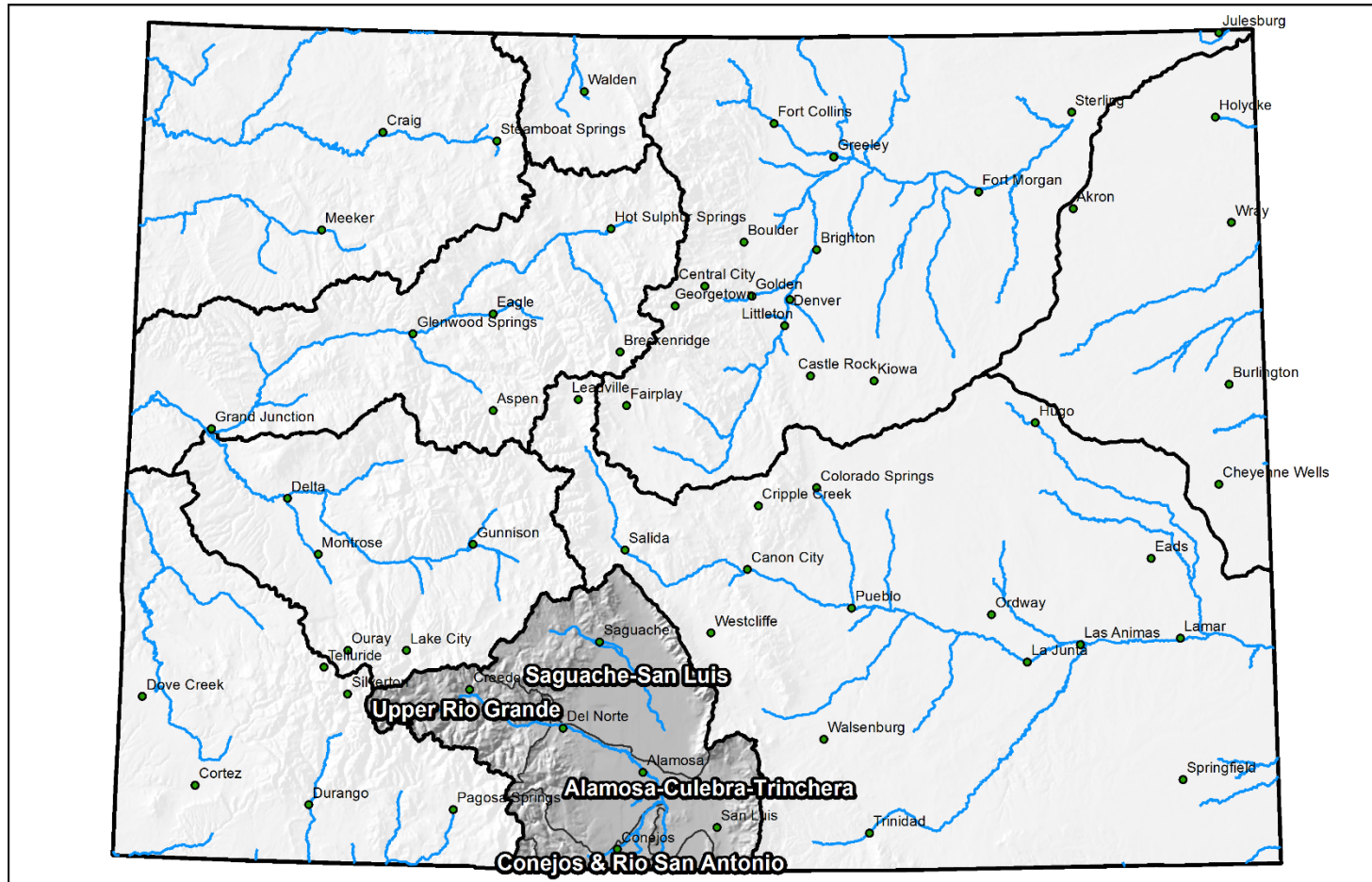
Reservoir Storage

Departure from Average



Major Basin Summary

Upper Rio Grande River Basin



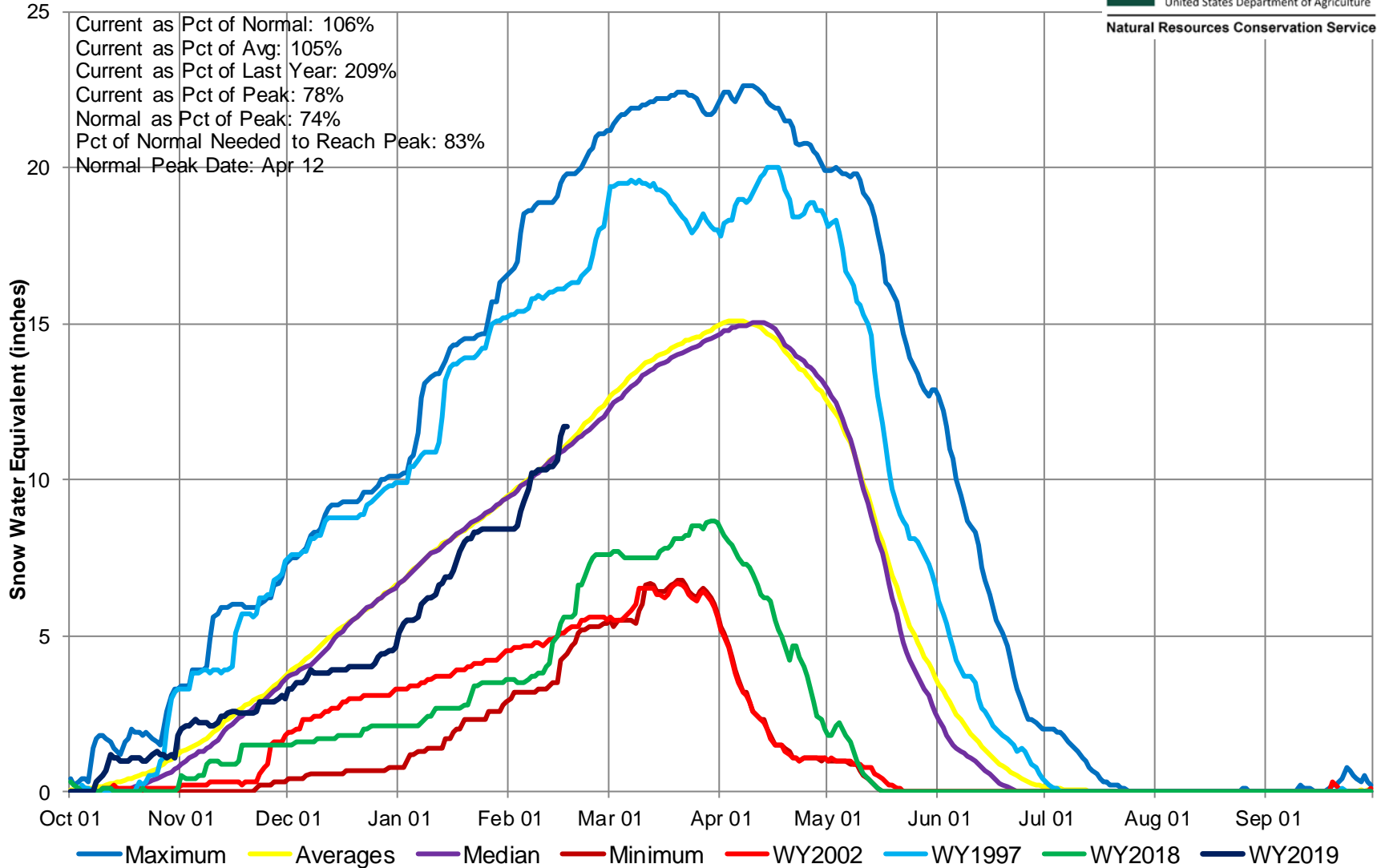
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



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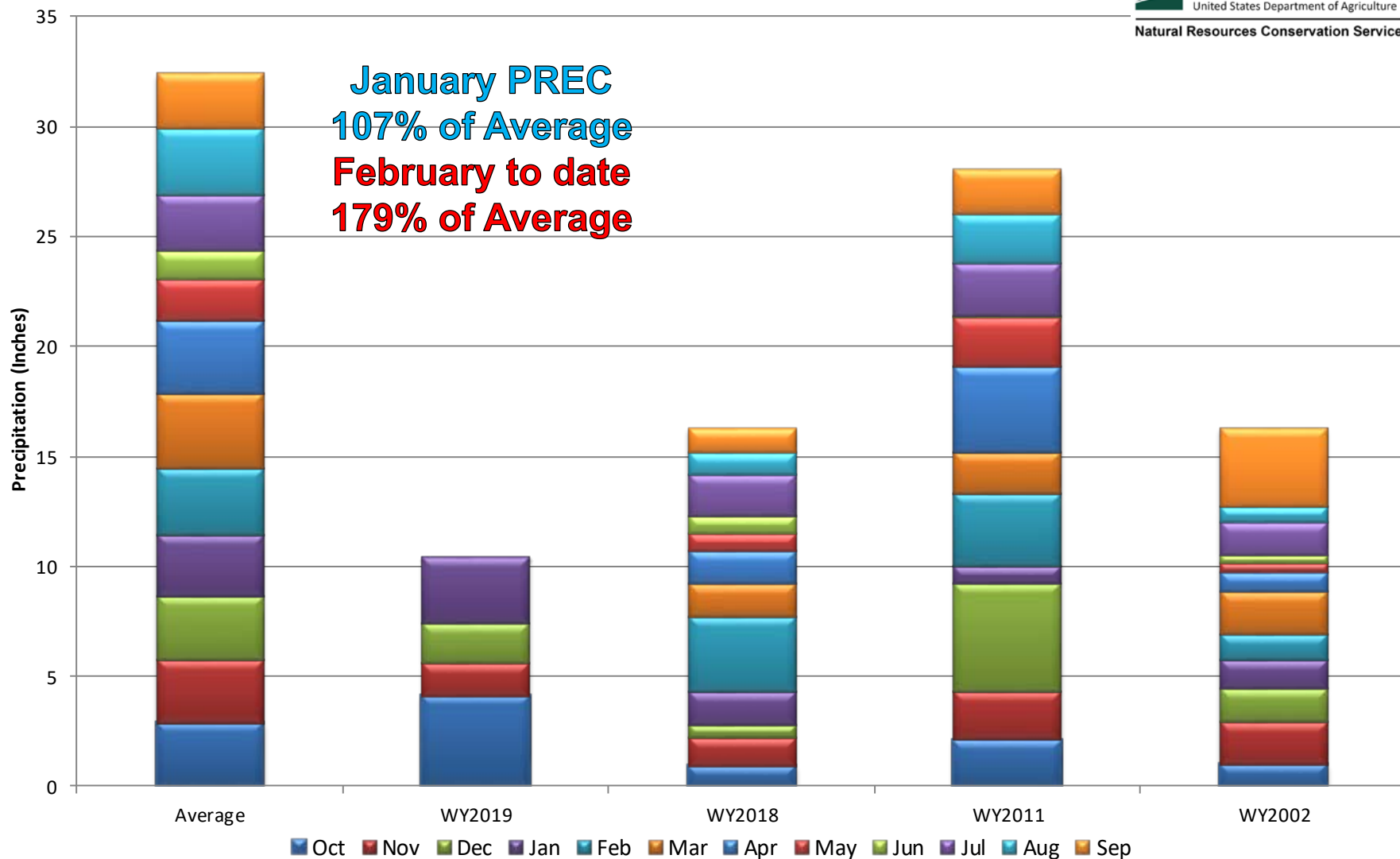
Upper Rio Grande River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



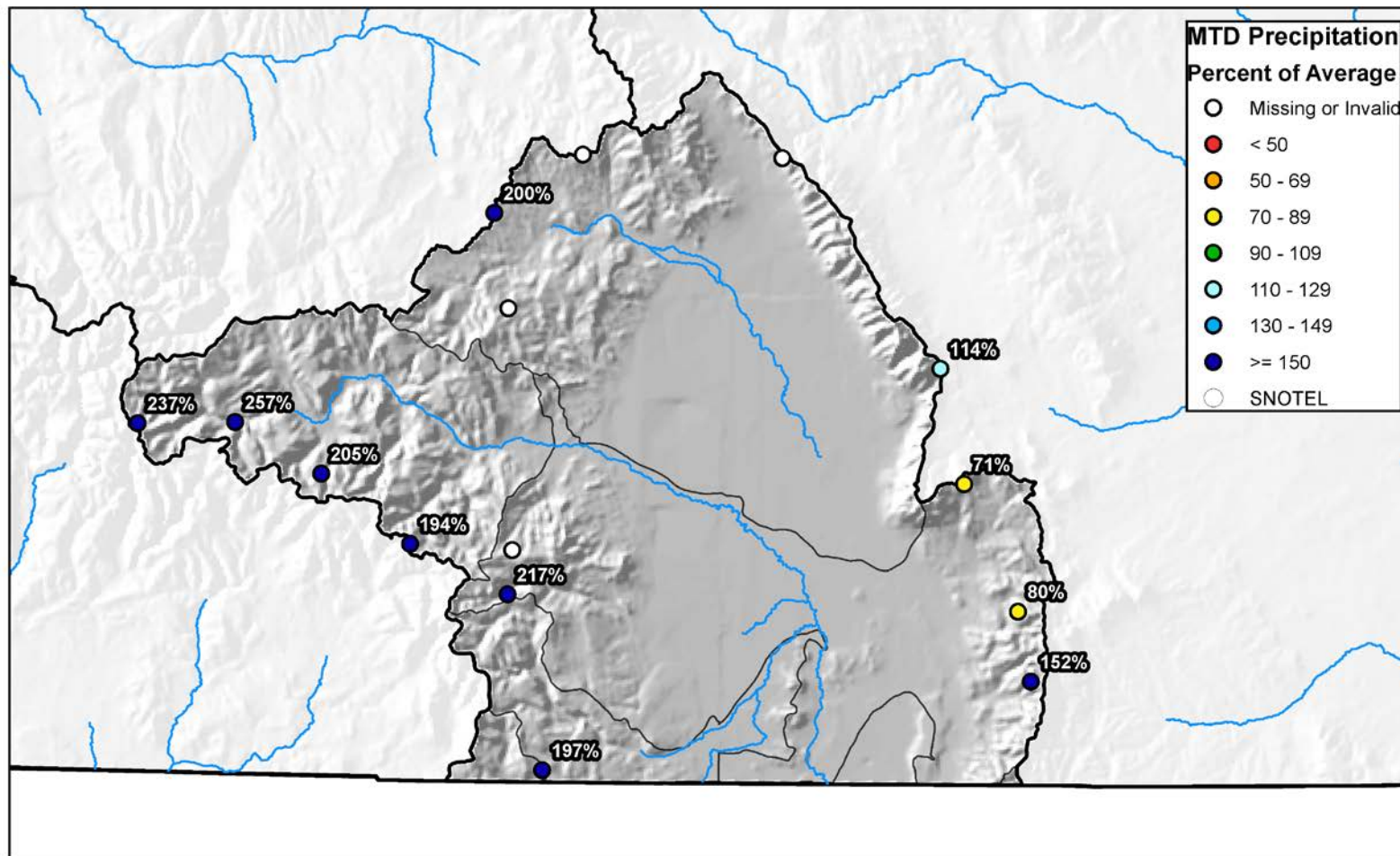
United States Department of Agriculture

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Upper Rio Grande River Basin Month to Date Precipitation Summary

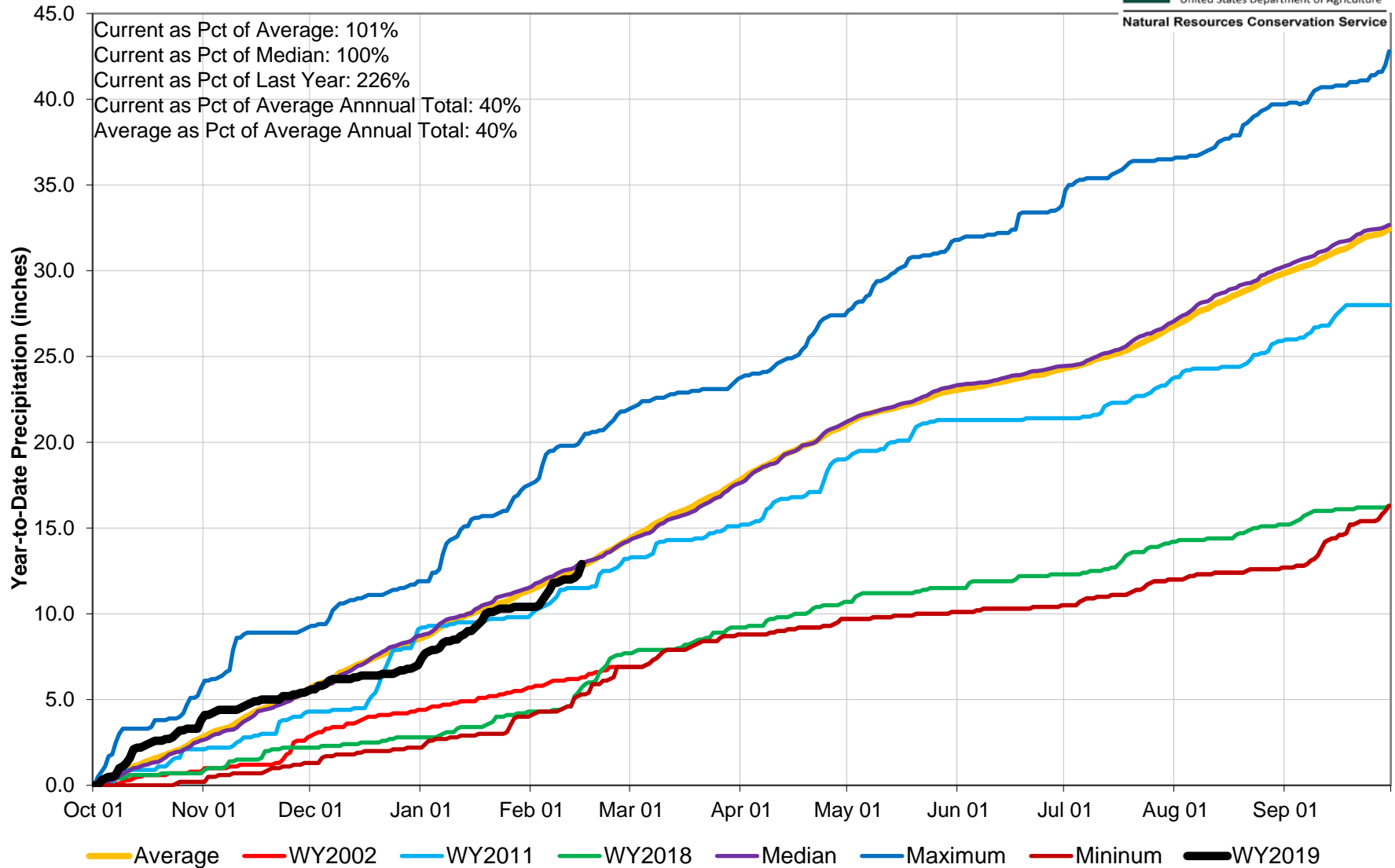
Current as of Feb 15, 2019



0 10 20 40 60 80 Miles

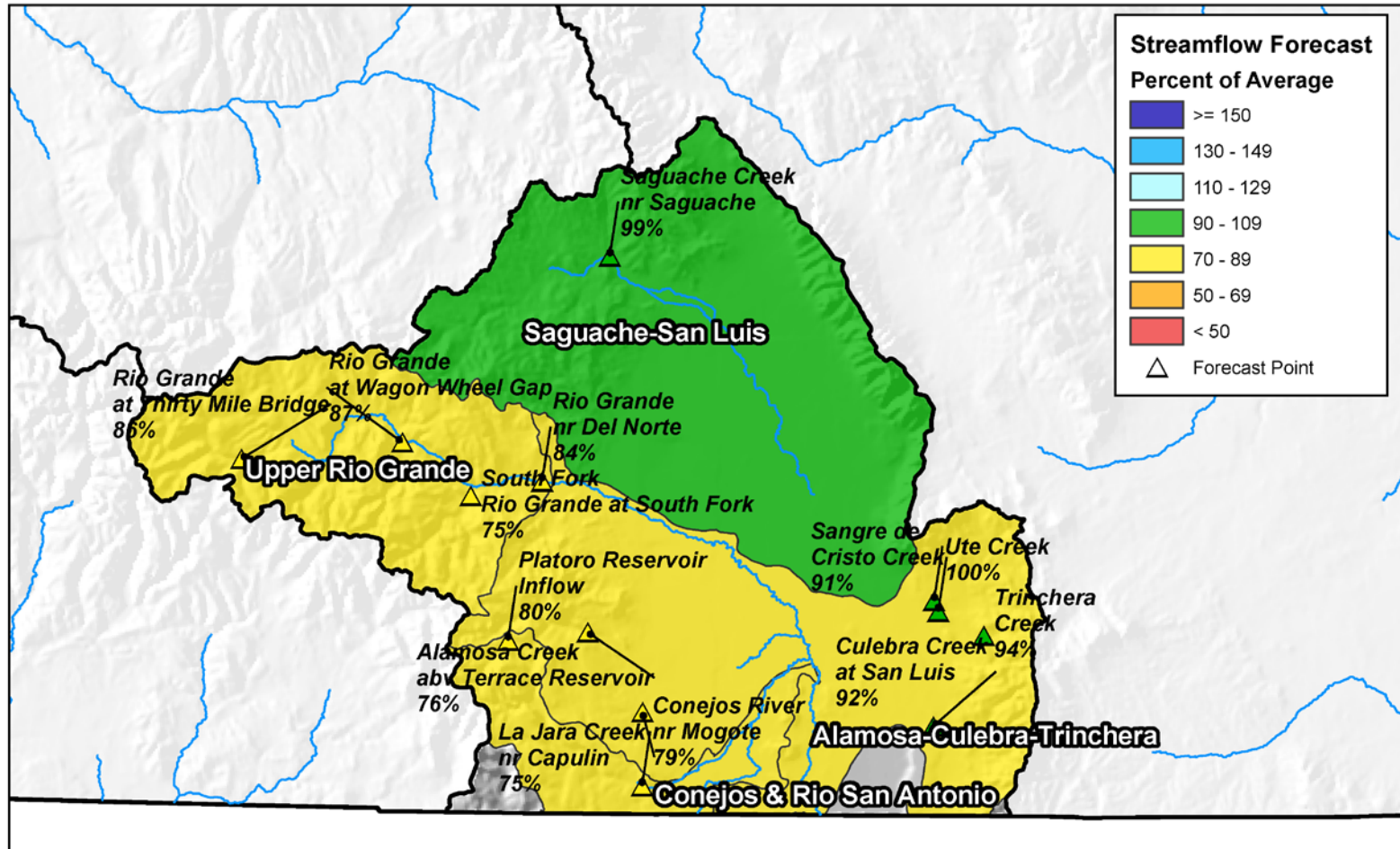
Upper Rio Grande River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 15, 2019



Upper Rio Grande River Basin Streamflow Forecast Summary

February 1, 2019

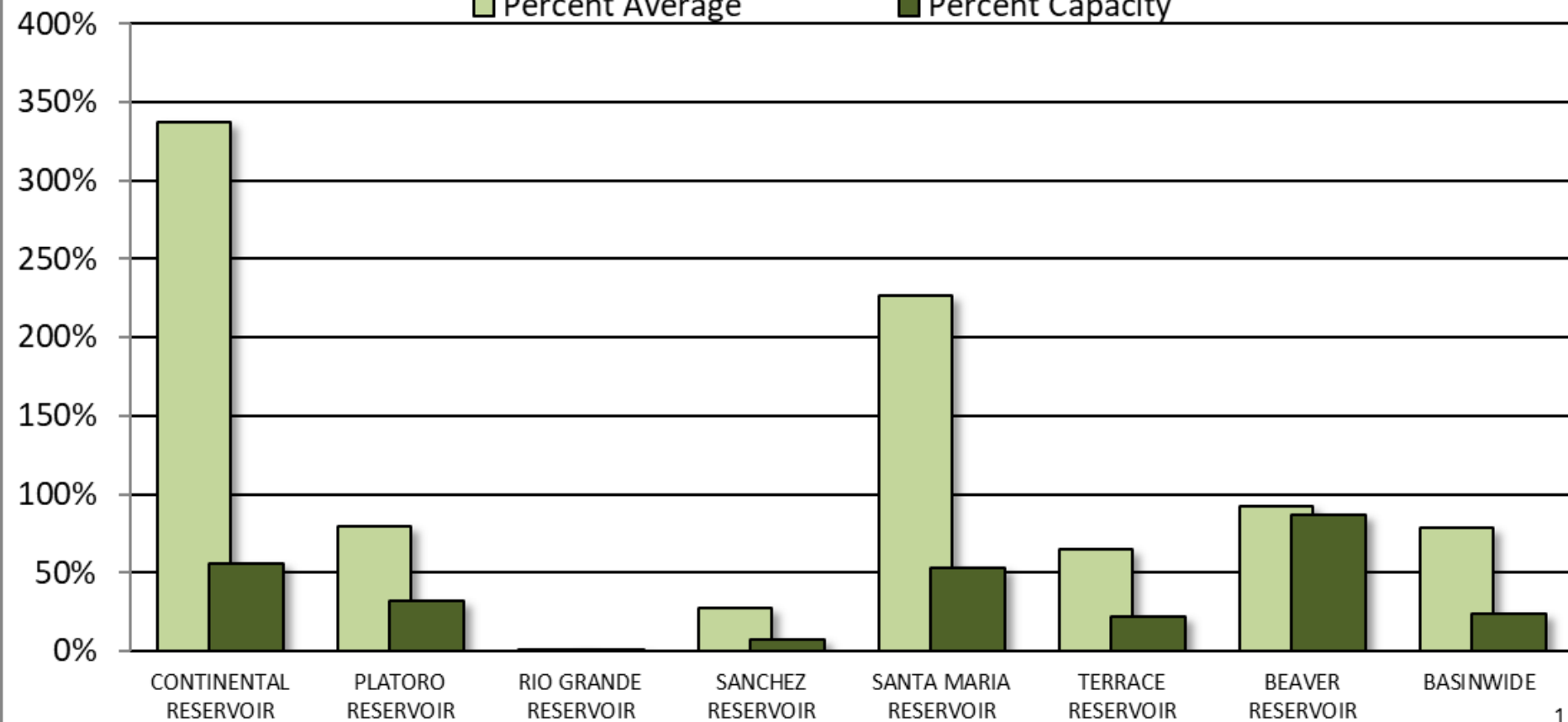


0 10 20 40 60 80 Miles

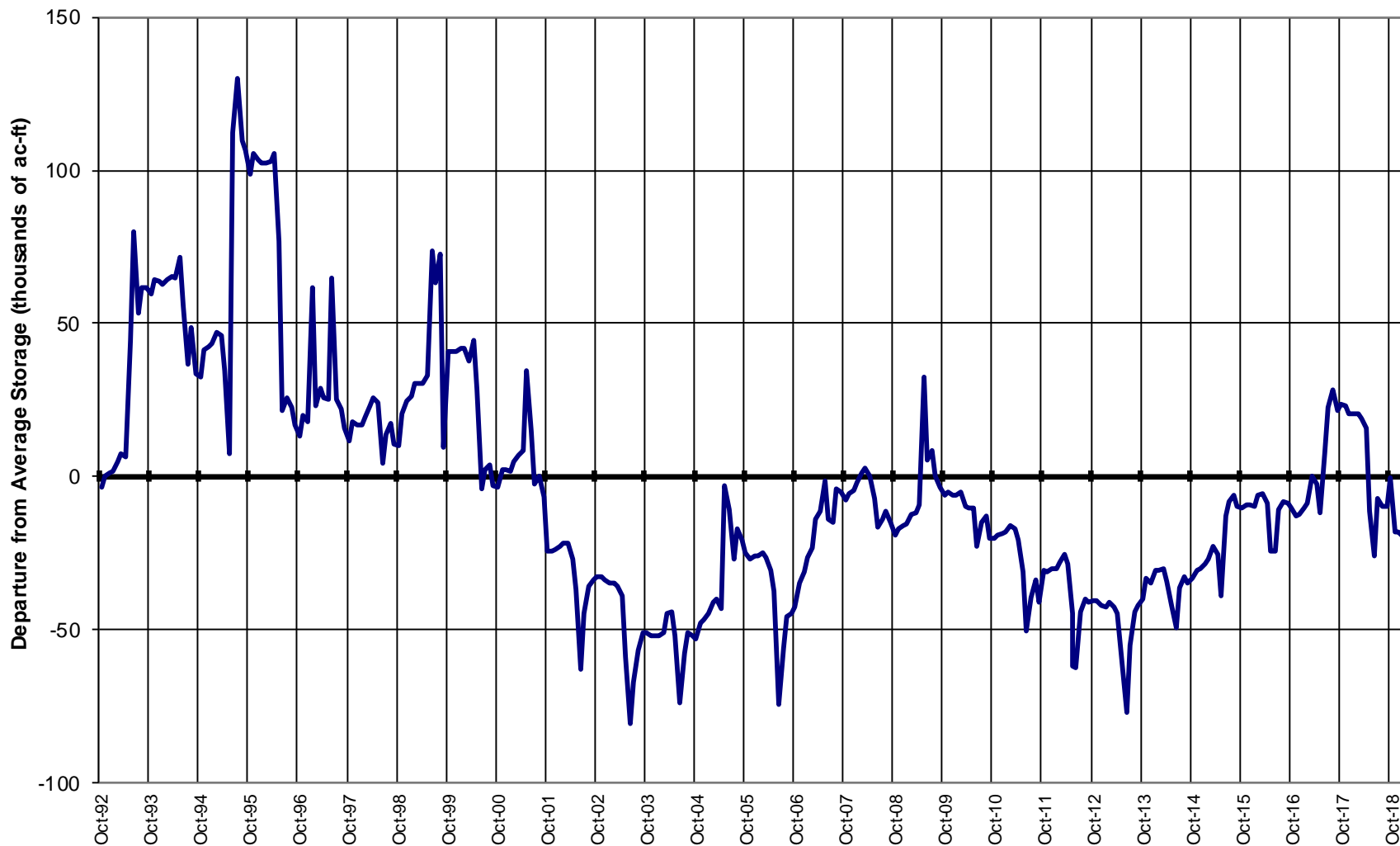
Reservoir Storage

■ Percent Average

■ Percent Capacity

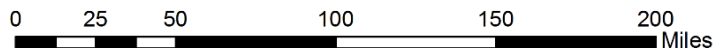
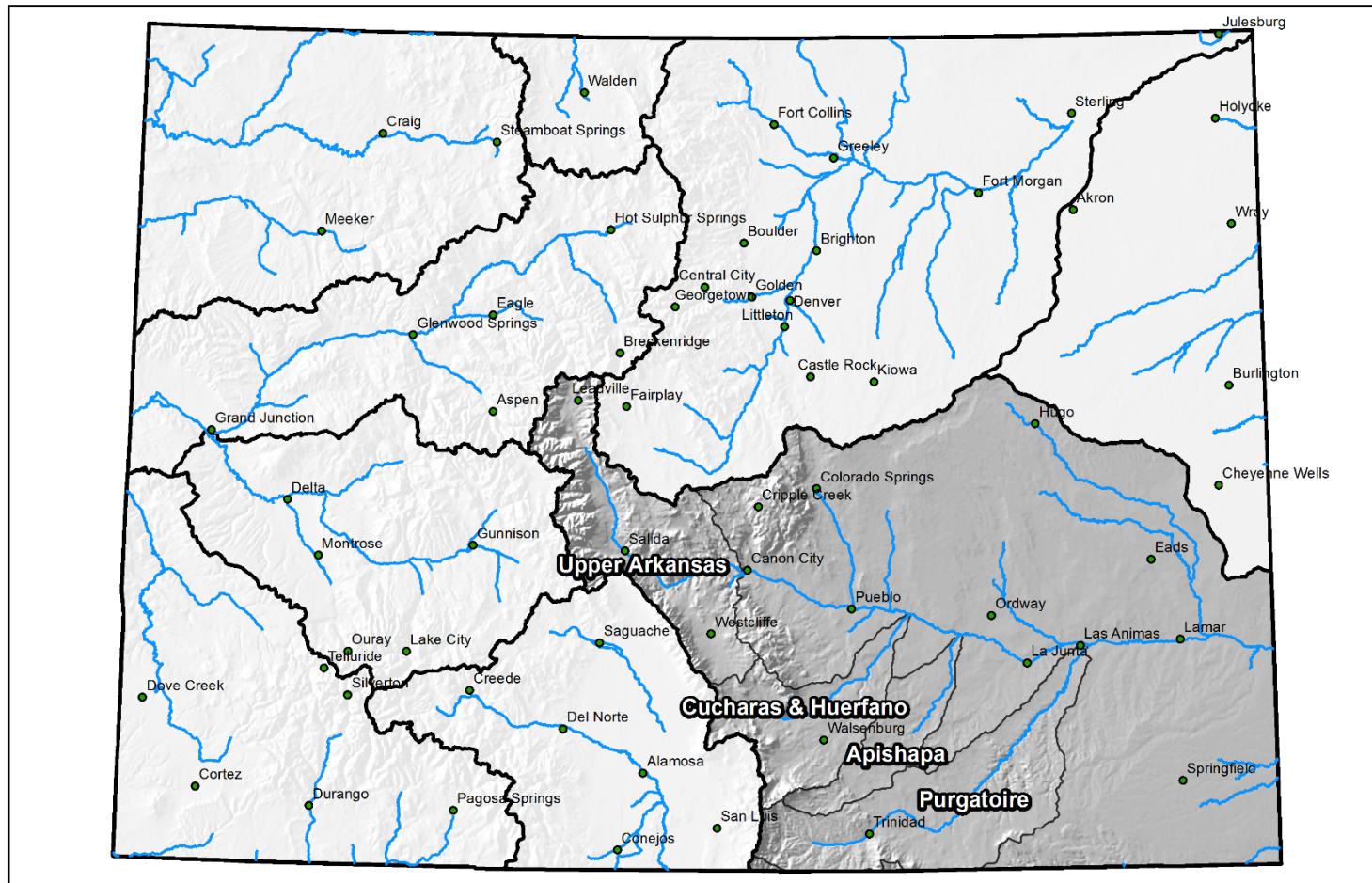


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



Major Basin Summary

Arkansas River Basin





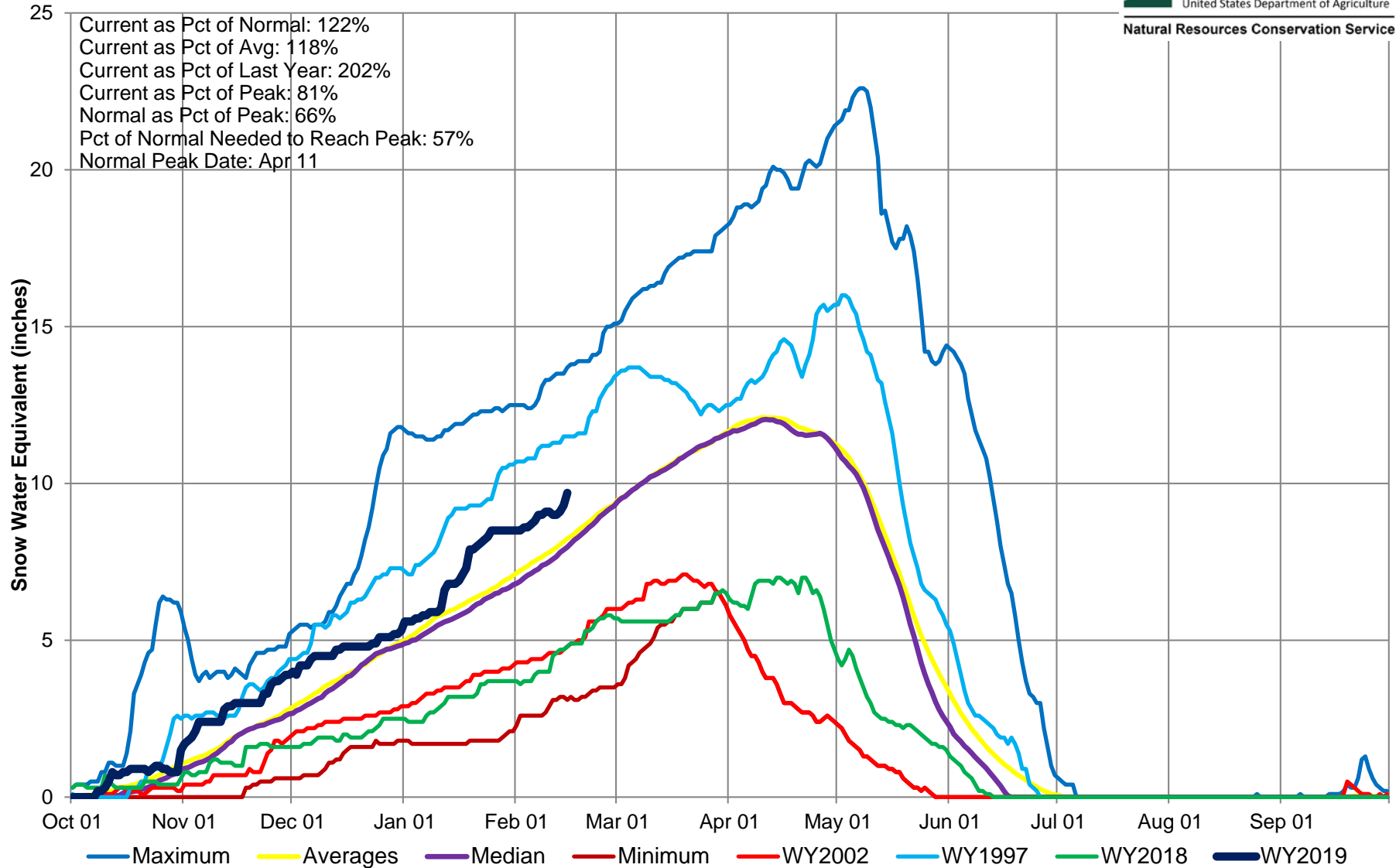
Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 15, 2019



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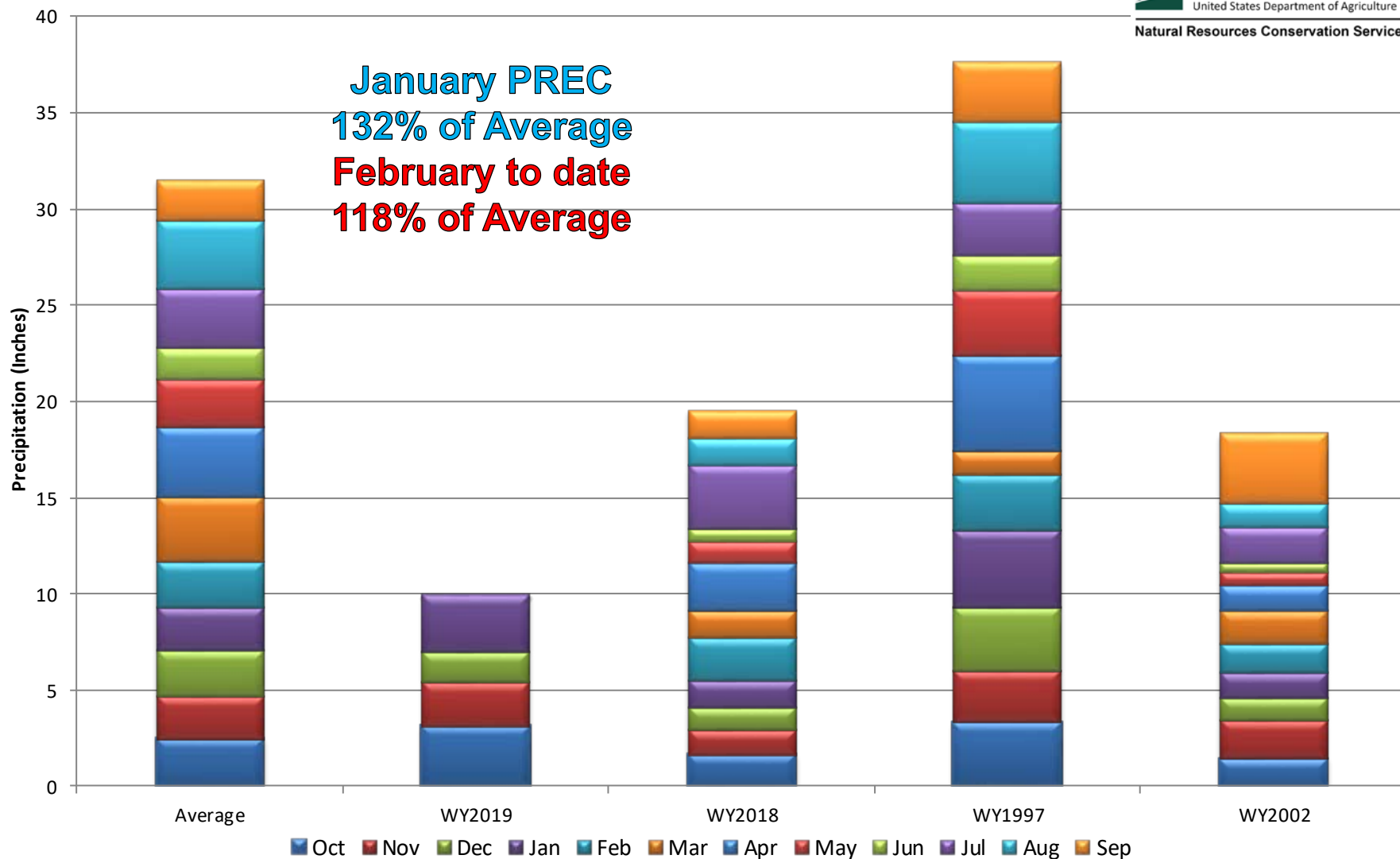
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



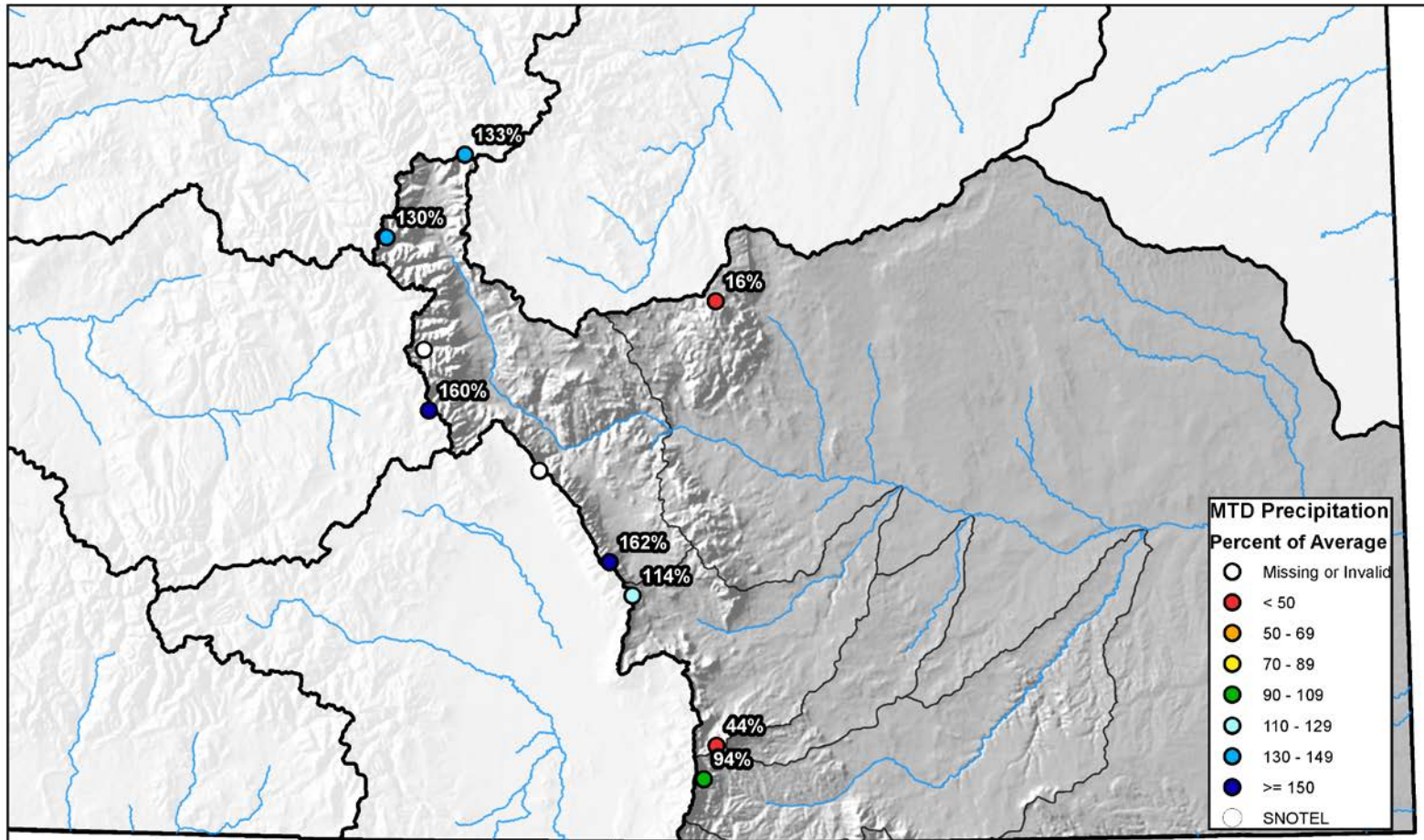
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Arkansas River Basin Month to Date Precipitation Summary

Current as of Feb 15, 2019

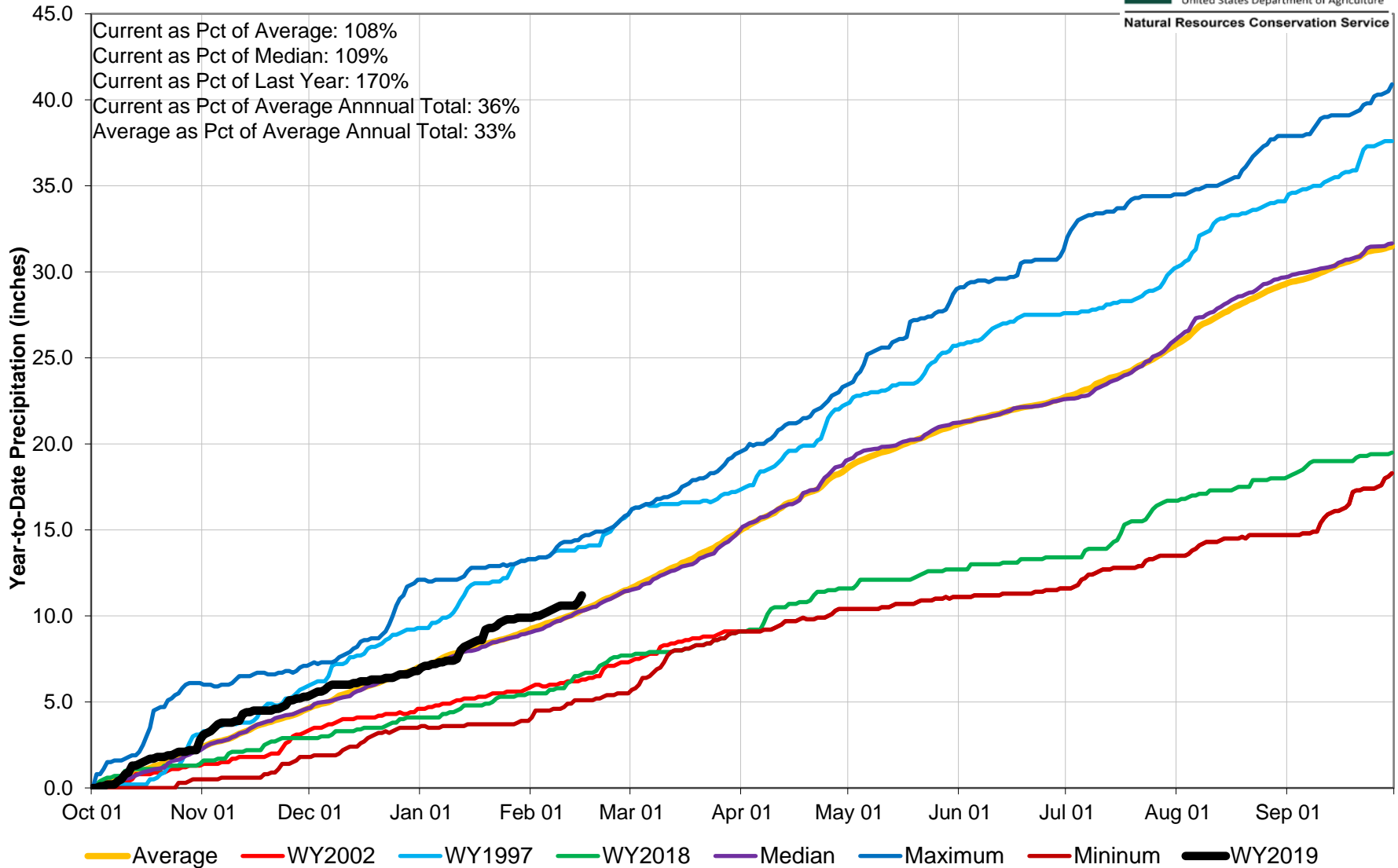


0 10 20 40 60 80 Miles



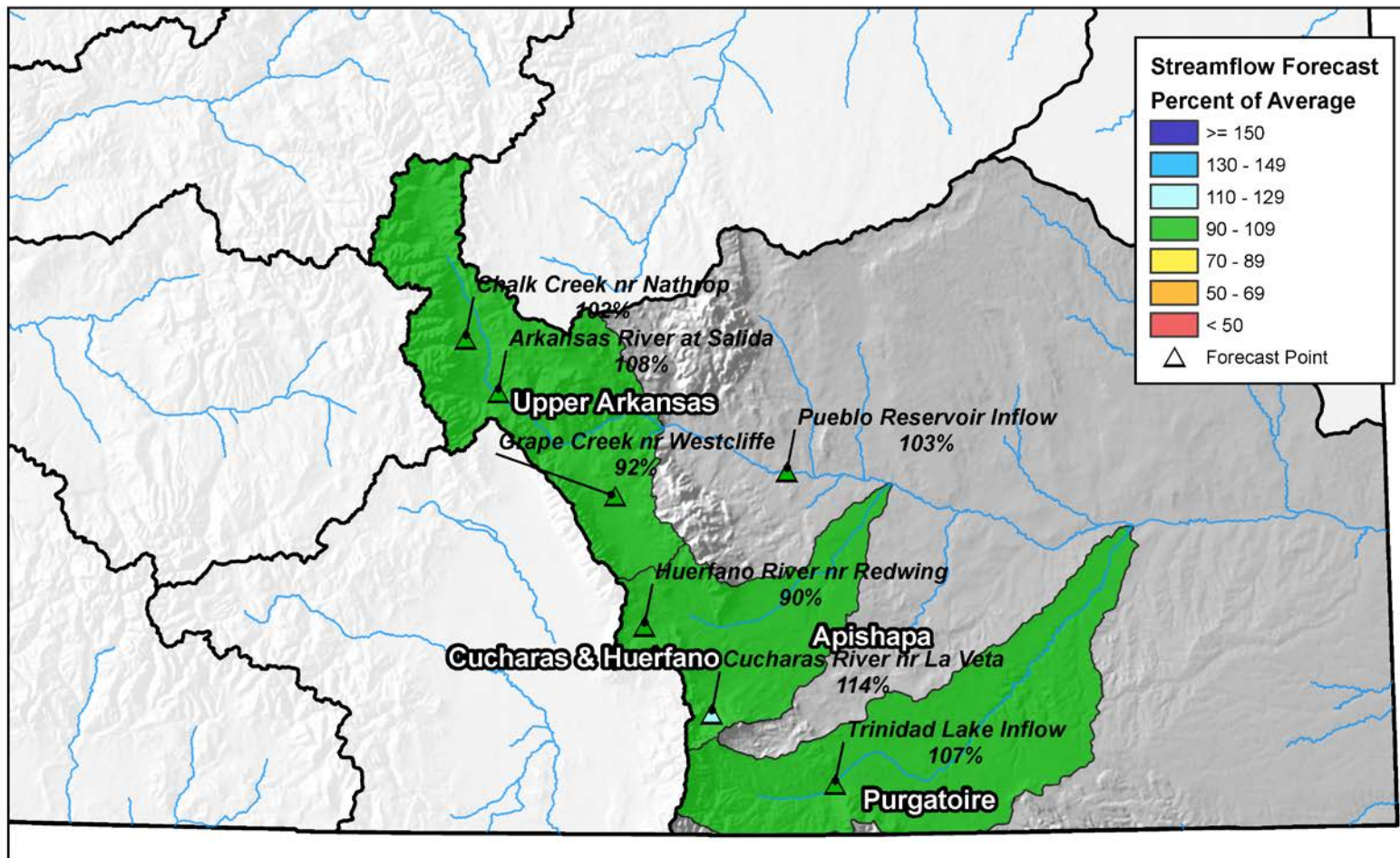
Arkansas River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 15, 2019



Arkansas River Basin Streamflow Forecast Summary

February 1, 2019

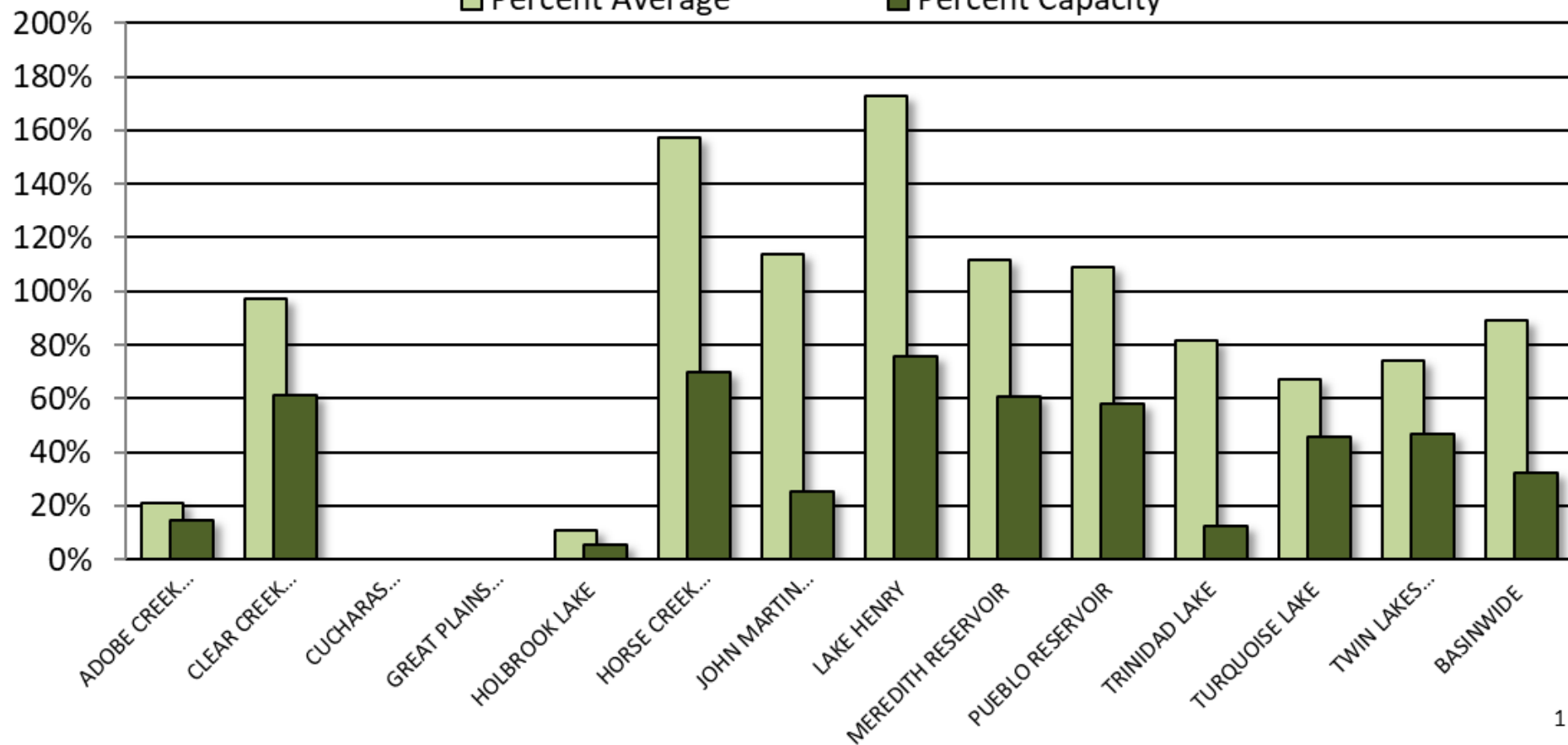


0 10 20 40 60 80 Miles

Reservoir Storage

■ Percent Average

■ Percent Capacity

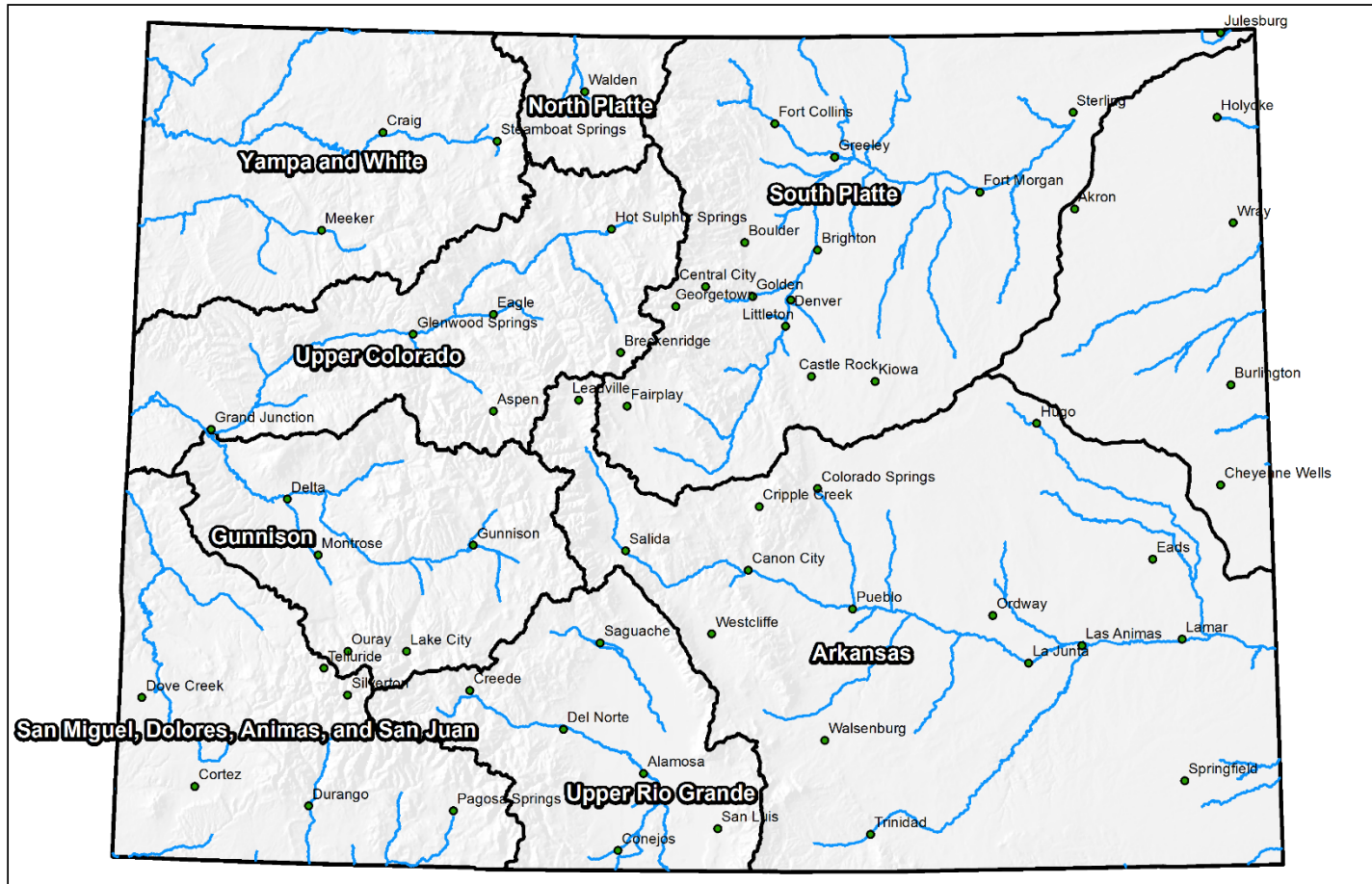


ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



Colorado Statewide Summary

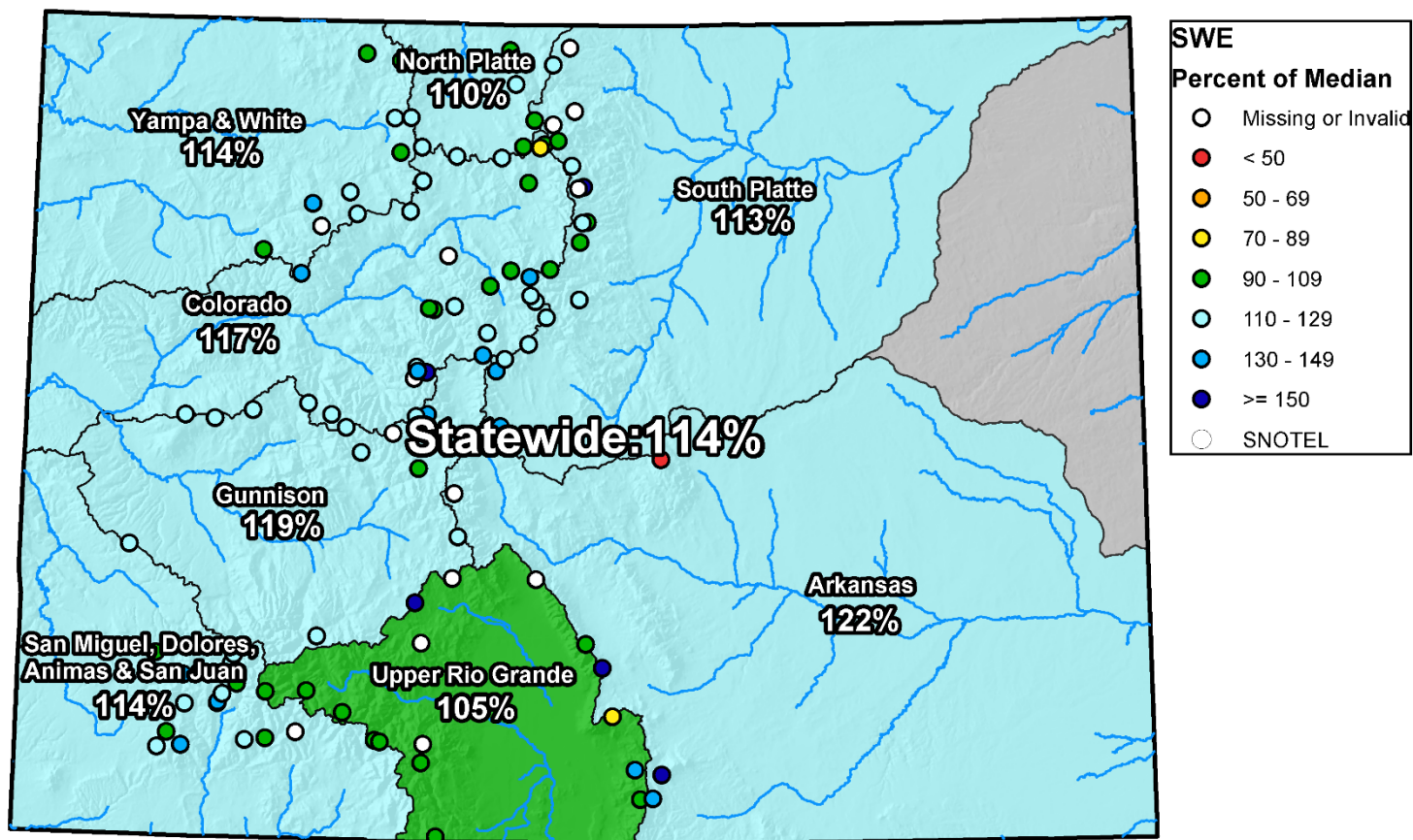
Colorado Major Basins



0 25 50 100 150 200 Miles

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

Current as of Feb 15, 2019



0 25 50 100 150 200 Miles



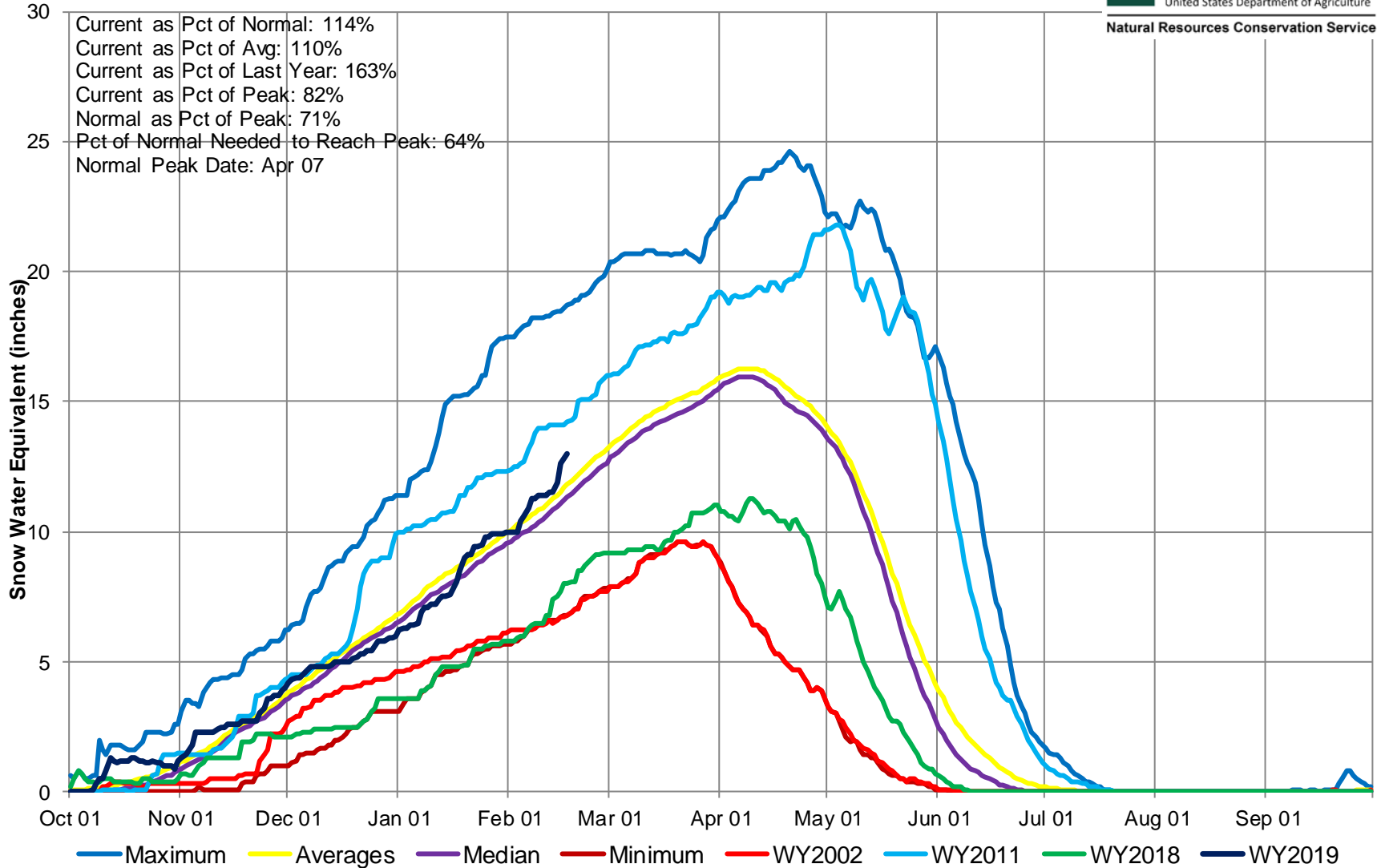
Colorado Statewide High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



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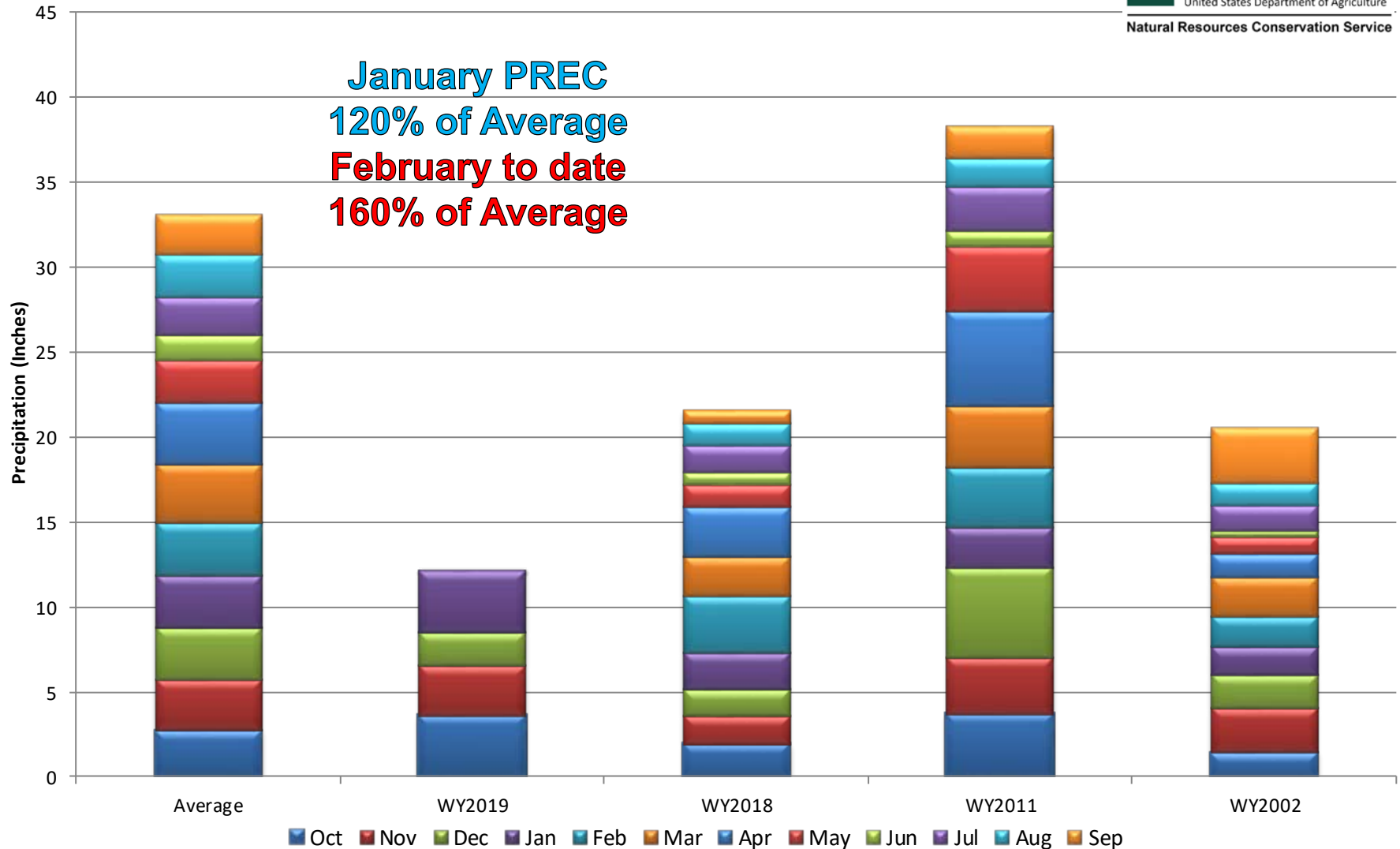
Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 17, 2019



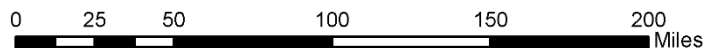
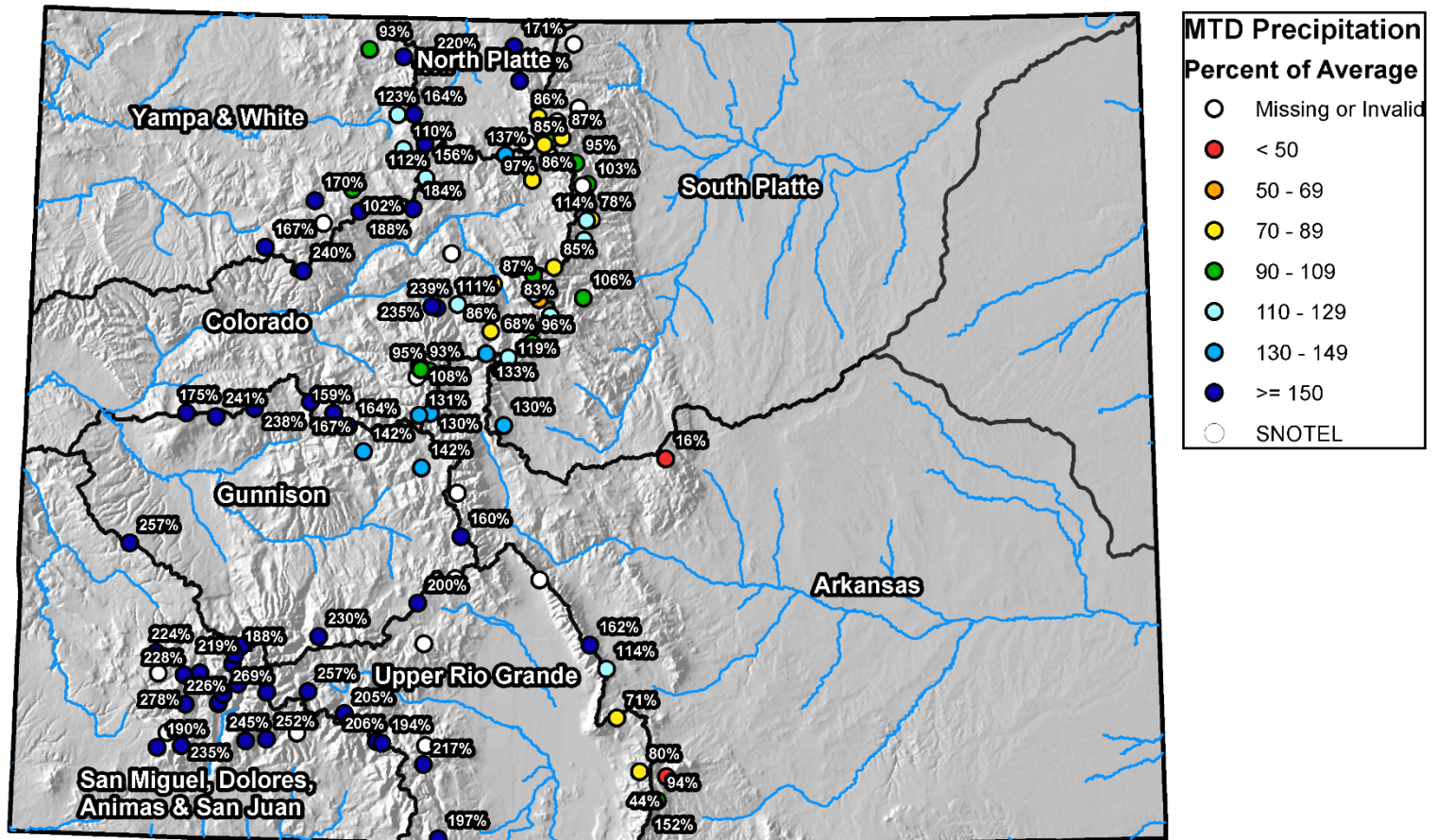
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Colorado SNOTEL Month-to-Date Precipitation

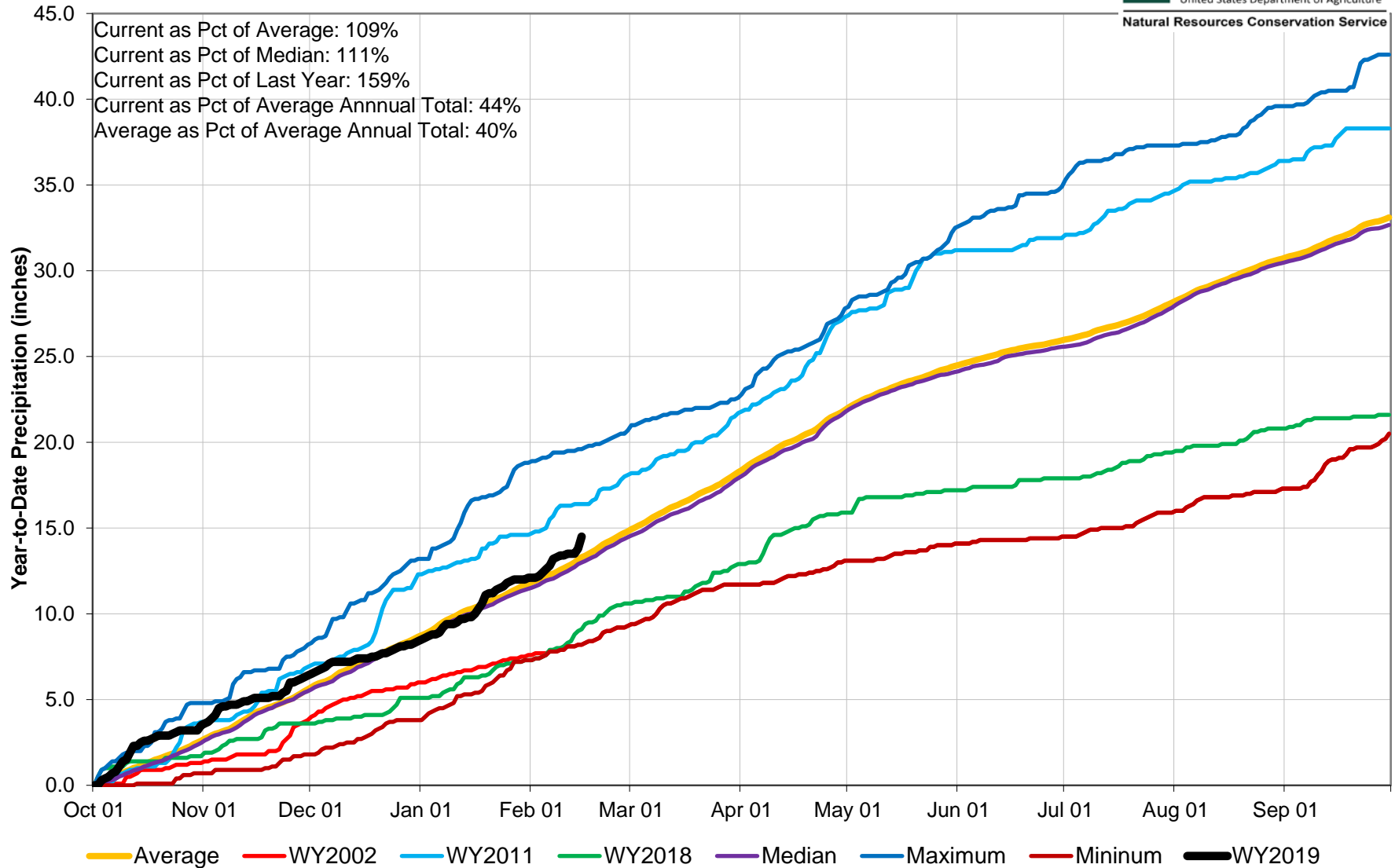
Current as of Feb 15, 2019





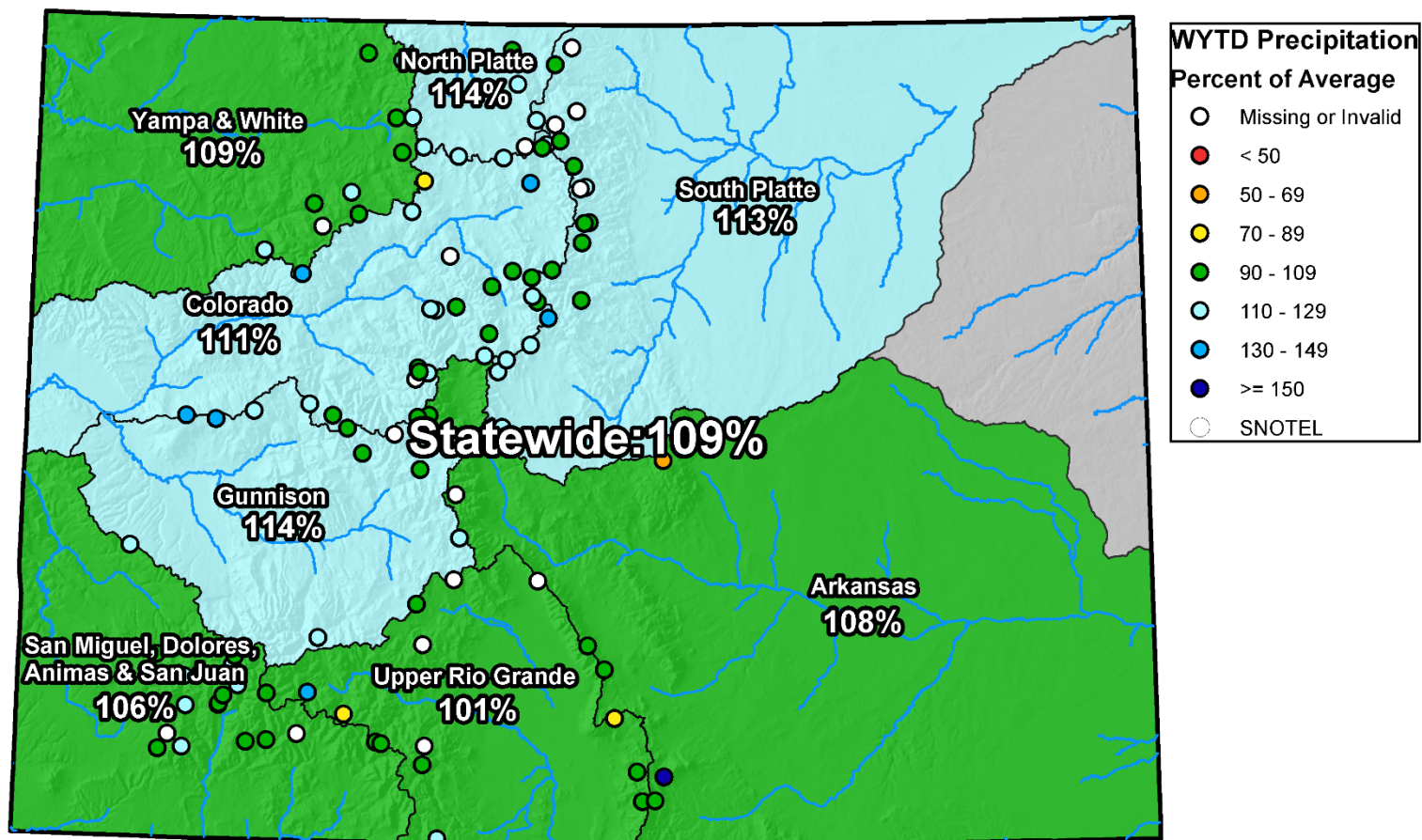
Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 15, 2019



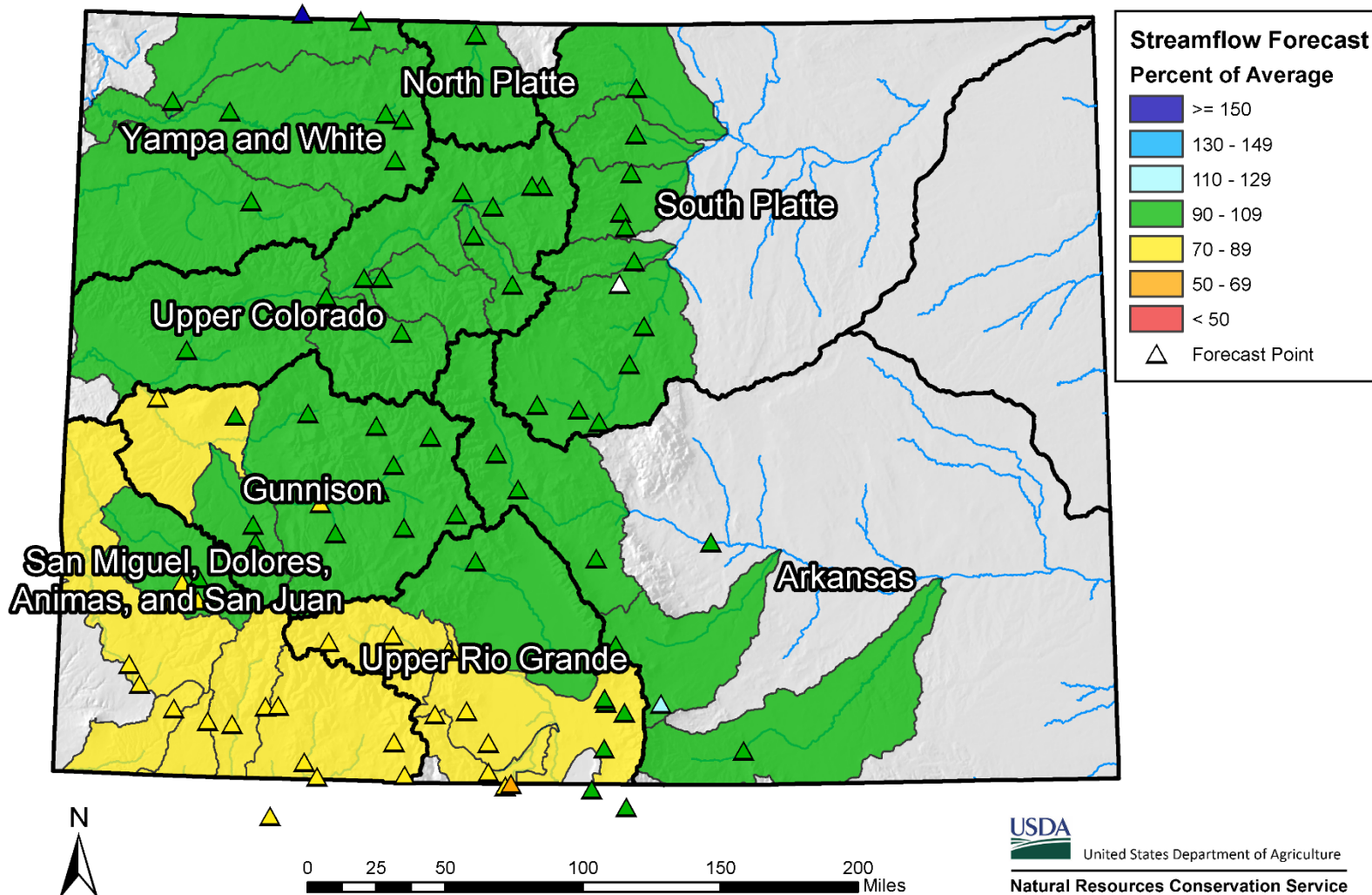
Colorado SNOTEL Water Year to Date Precipitation

Current as of Feb 15, 2019



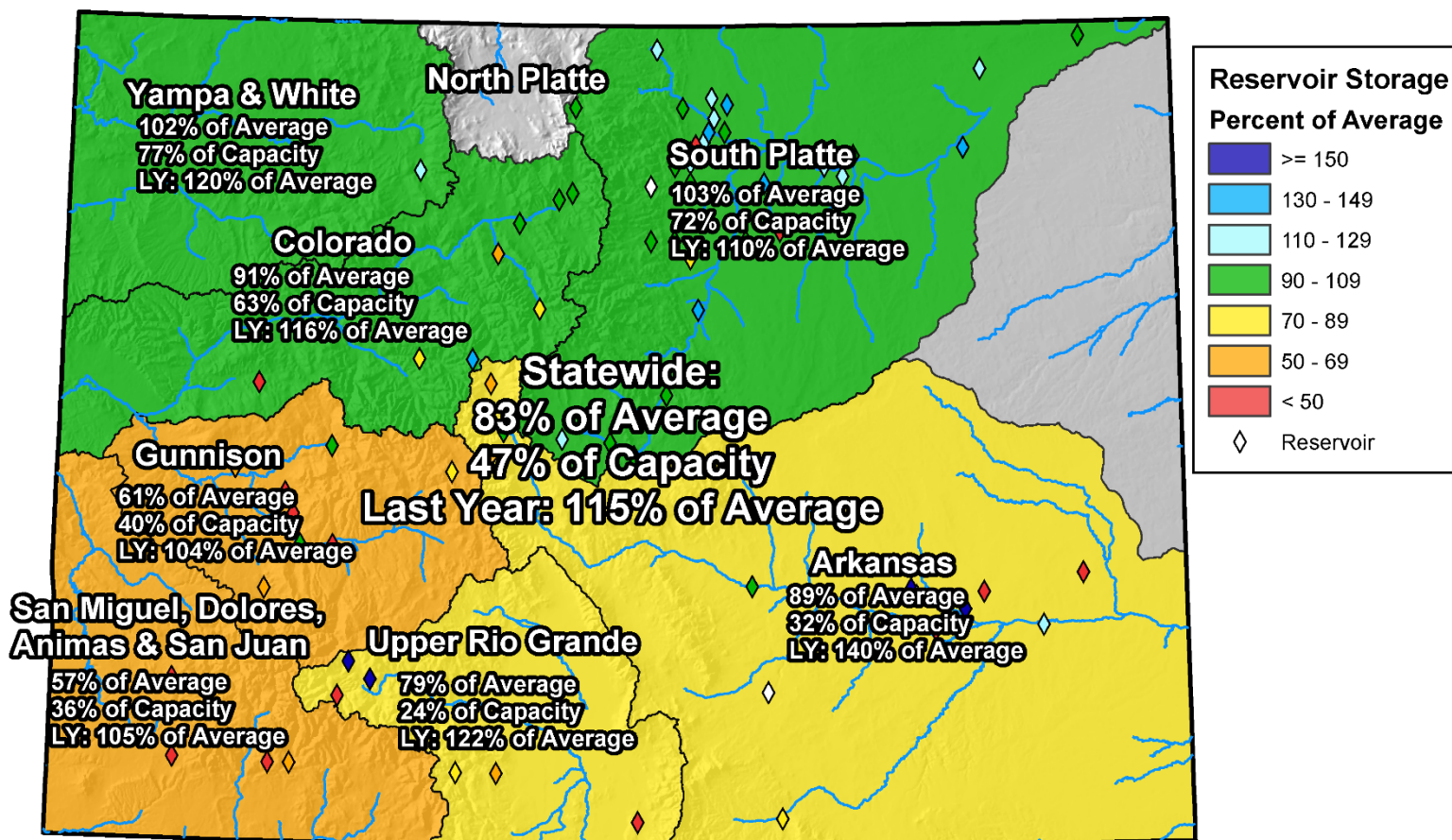
0 25 50 100 150 200 Miles

Colorado Streamflow Forecasts Summary February 1, 2019



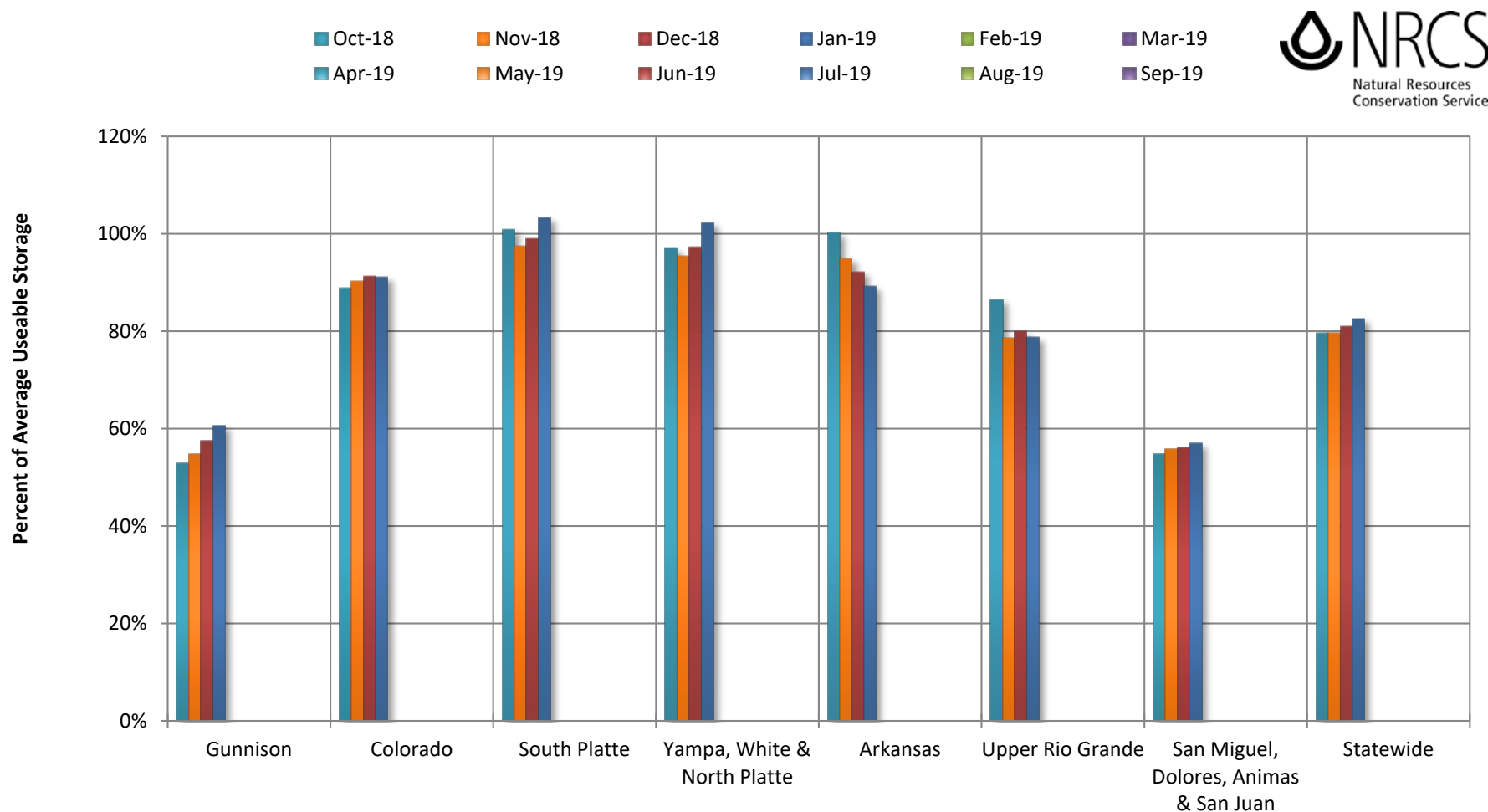
Colorado Monthly Reservoir Storage Summary

End of January 2019



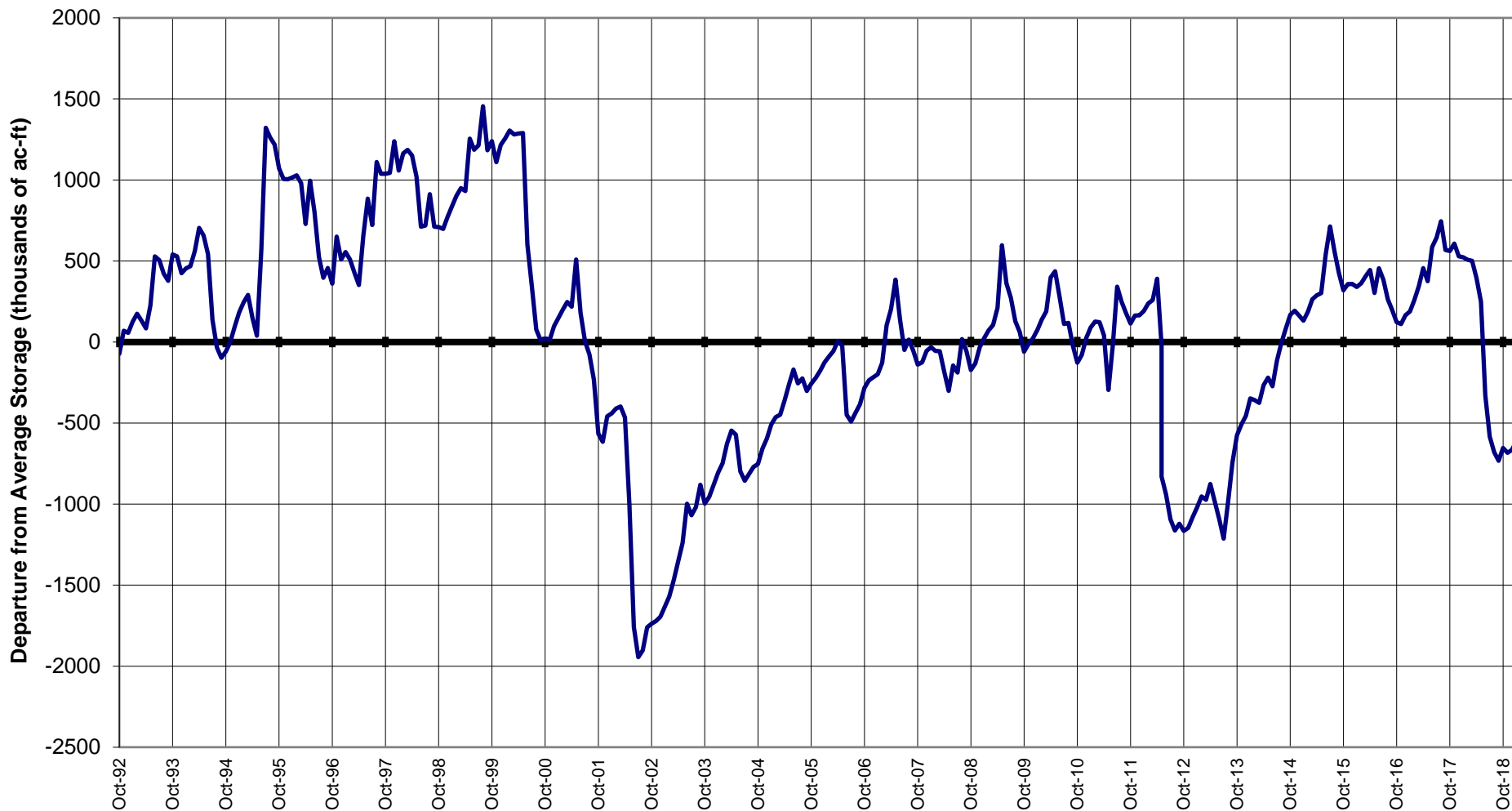
0 25 50 100 150 200 Miles

Colorado Reservoir Storage





COLORADO STATEWIDE Reservoir Storage Departure from Average



Summary

•Precipitation Statewide

- At last presentation (1/22), year to date precipitation at 101% norm
- February Precip 160% of norm – year to date now 109% norm

•Snowpack

- Statewide snowpack now @ 114% norm
- Ark best snowpack in state w/ 122% norm, followed by Gunn @ 120%

•Statewide reservoir storage - 83% norm, +2% from last month

•Feb 1 Streamflow Forecasts look promising – near normal across northern portions of state – below normal in southern but expected improvement in Mar 1 with improved snowpack & precip so far in Feb.



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

February 19th, 2019

NRCS Snow Survey and Water Supply Forecasting Program

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



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