



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

July 25th, 2017

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

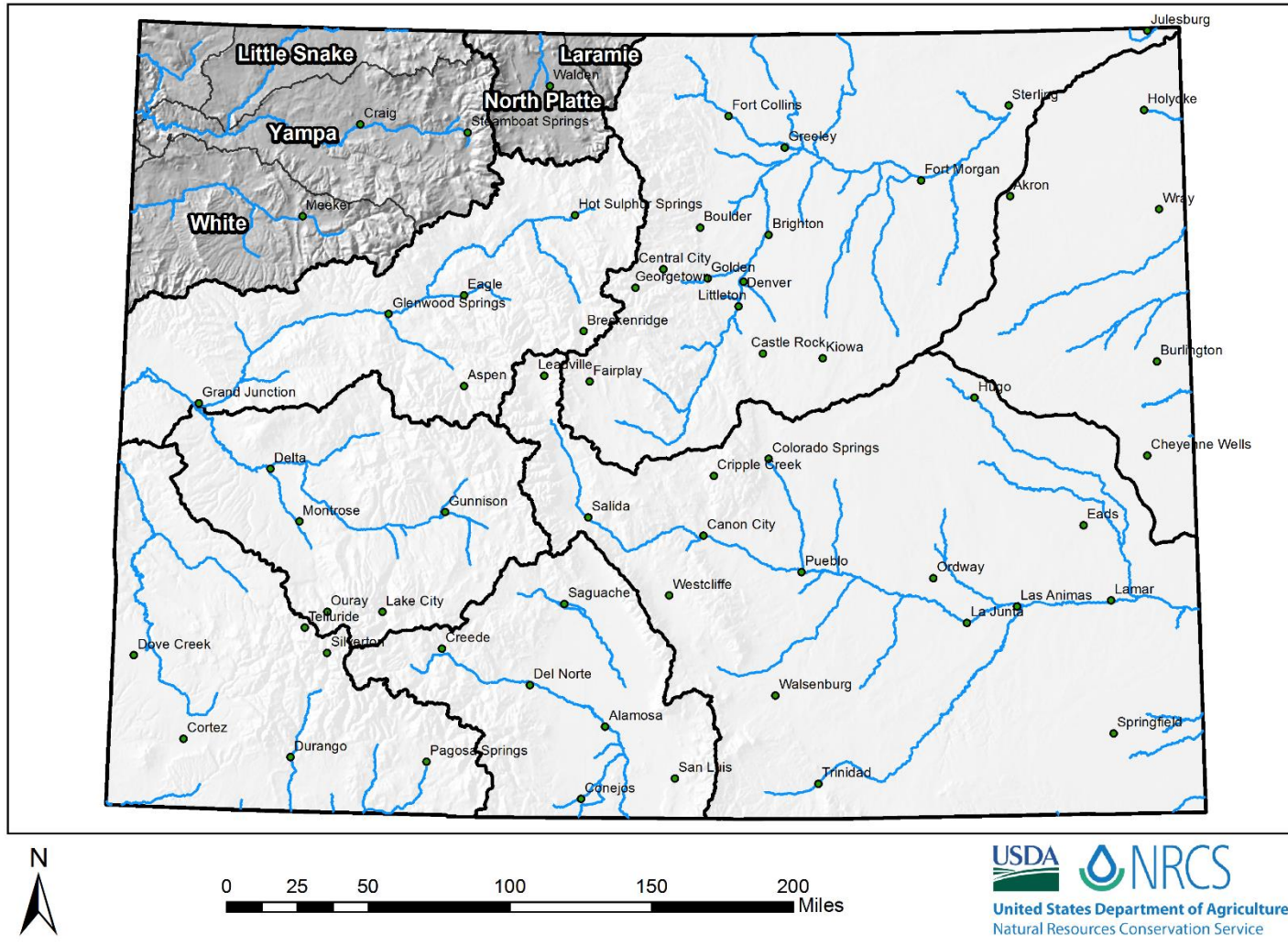
Asst. Snow Survey Supervisor

720-544-2853

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

Major Basin Summary

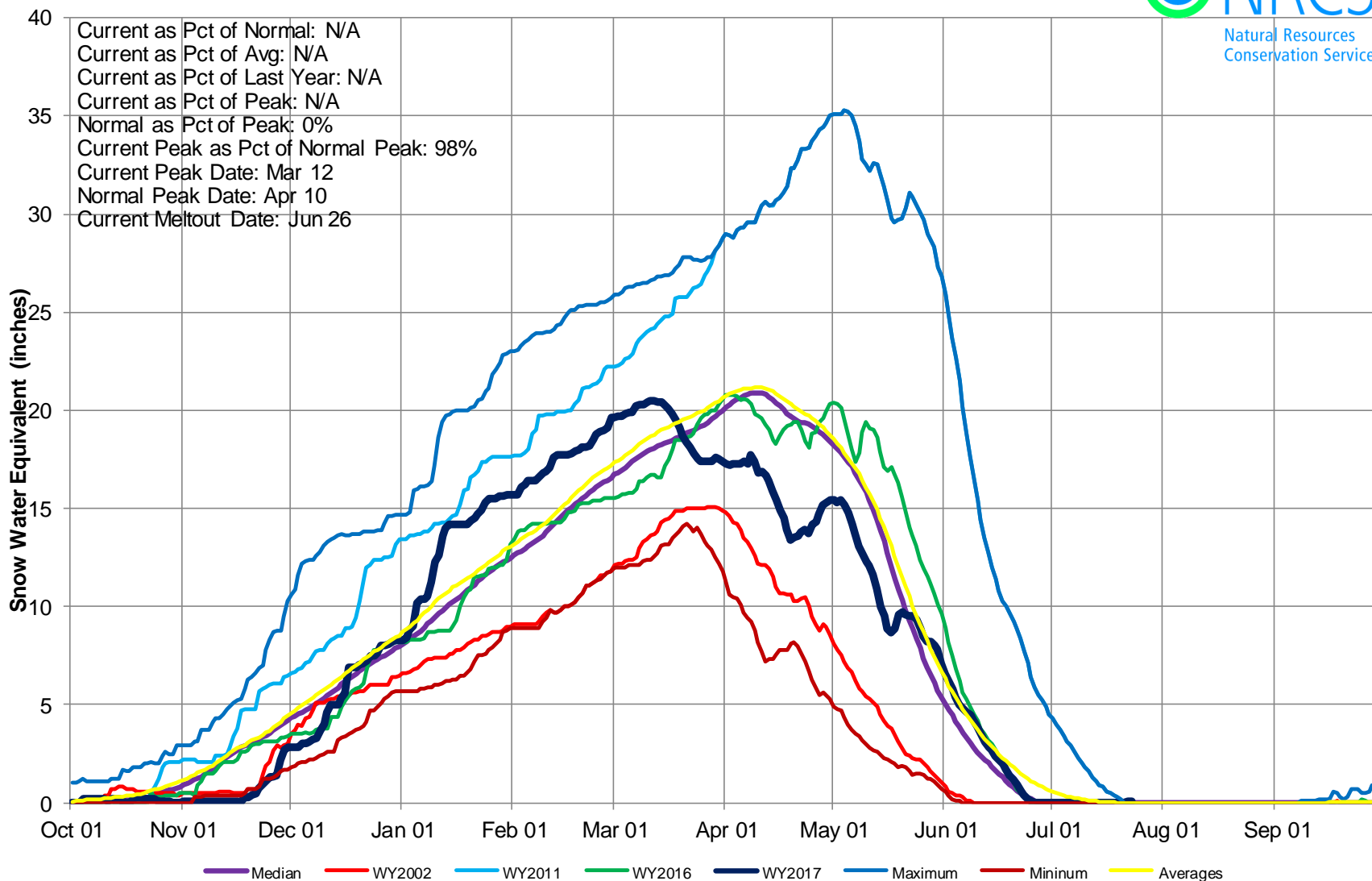
Yampa, White, and North Platte River Basins





Yampa and White River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jul 24, 2017

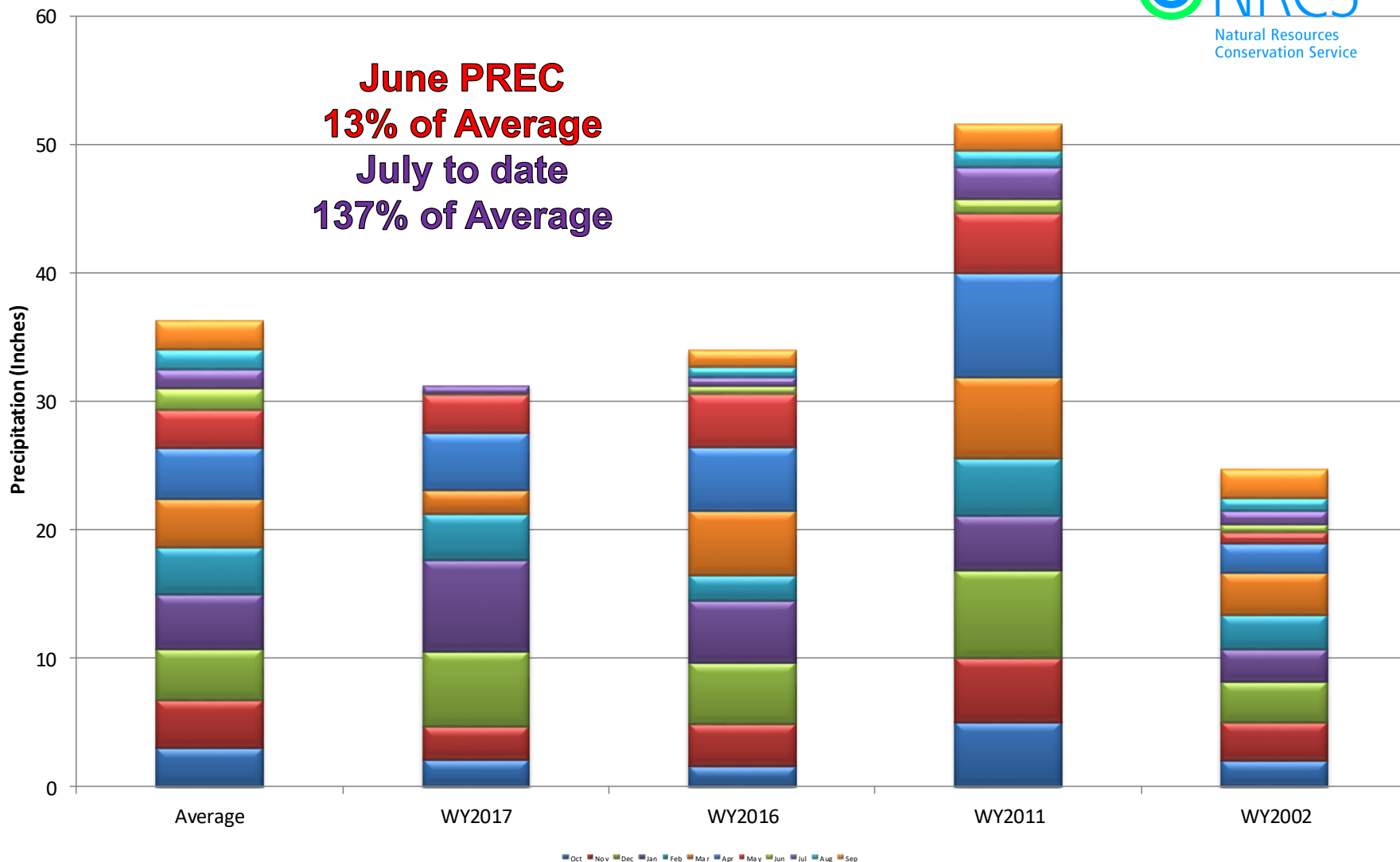


Yampa & White River Basins High/Low Monthly Precipitation Summary

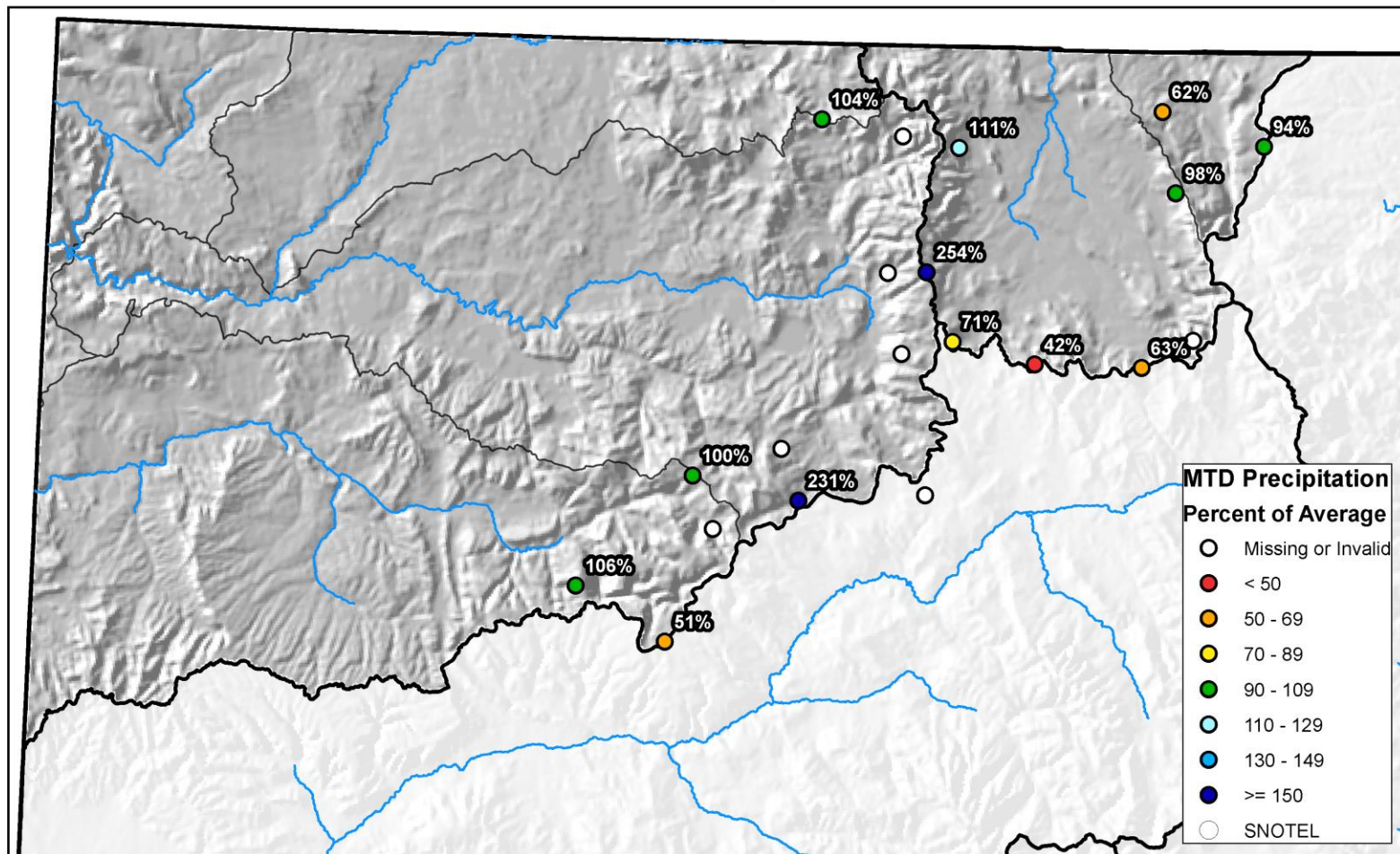
Based on Provisional SNOTEL data as of Jul 24, 2017



June PREC
13% of Average
July to date
137% of Average



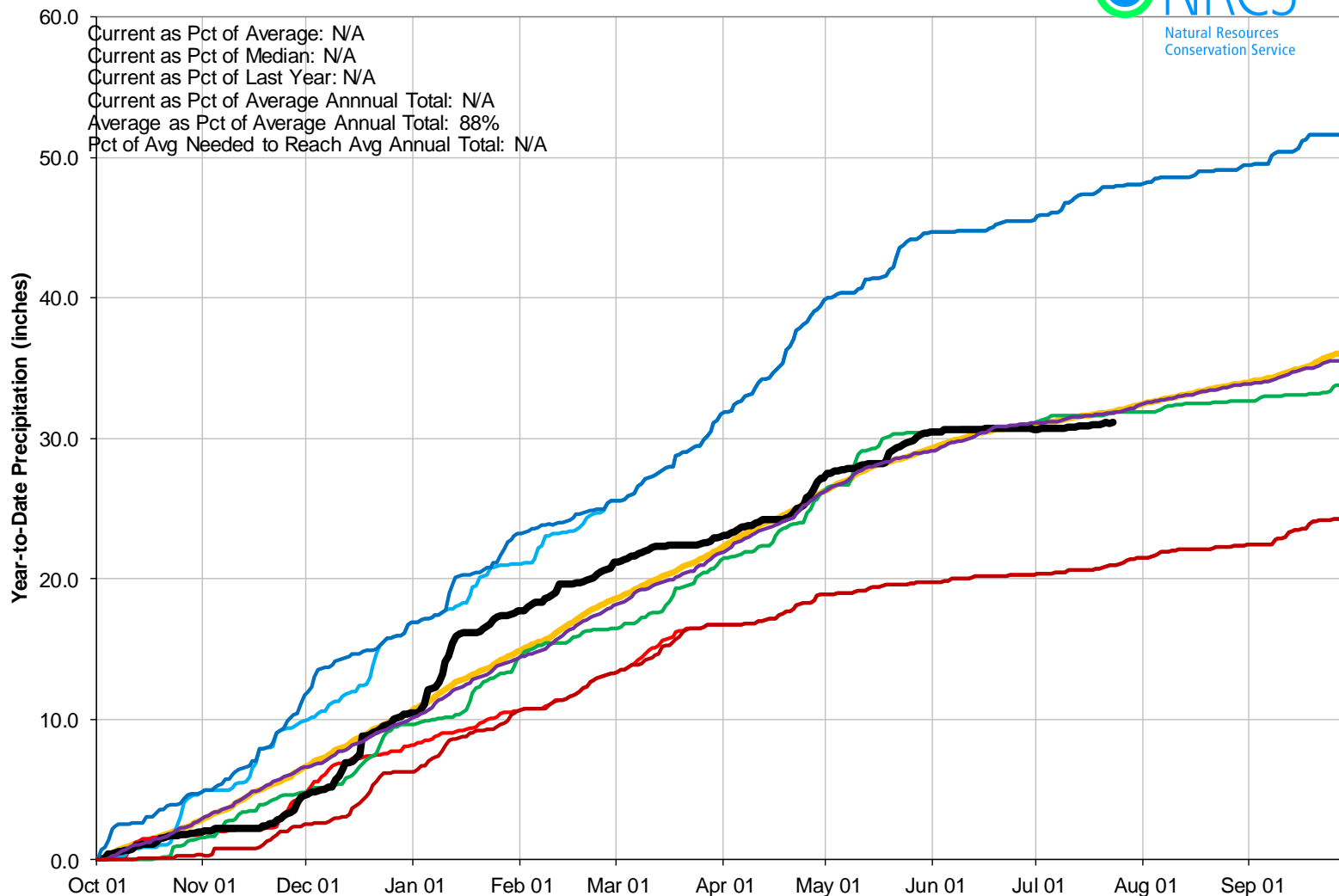
Yampa, White, and North Platte River Basins Month to Date Precipitation Summary Current as of Jul 24, 2017



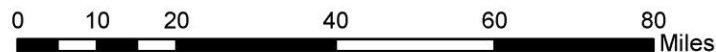
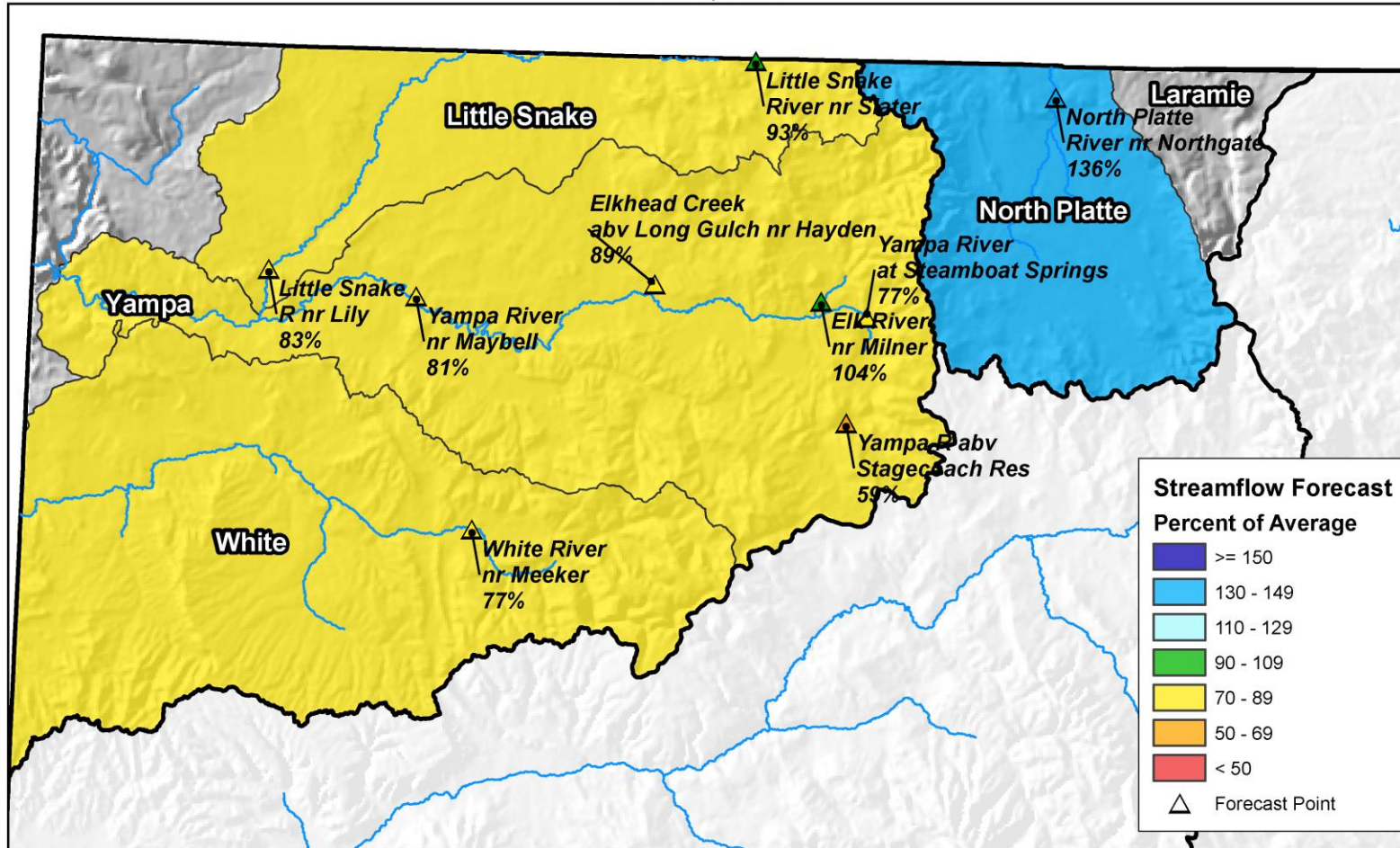
0 10 20 40 60 80 Miles

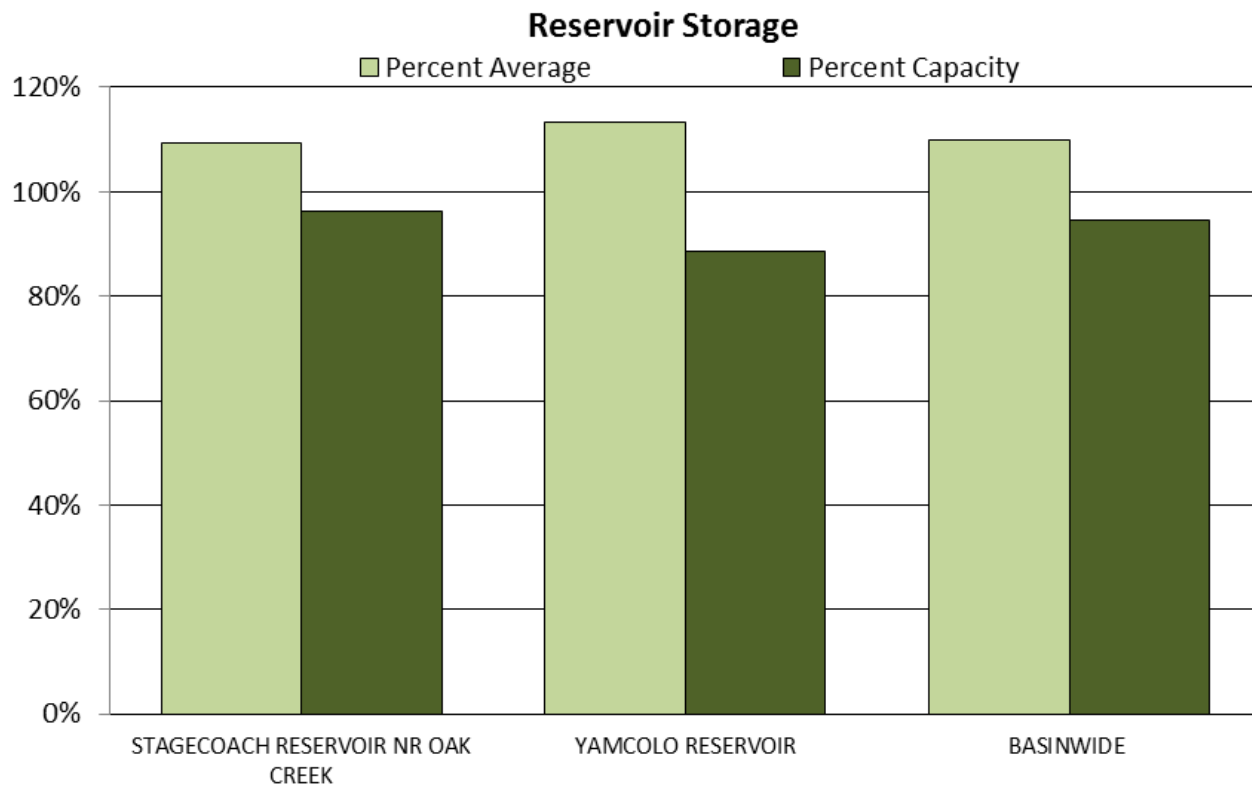
Yampa & White River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017

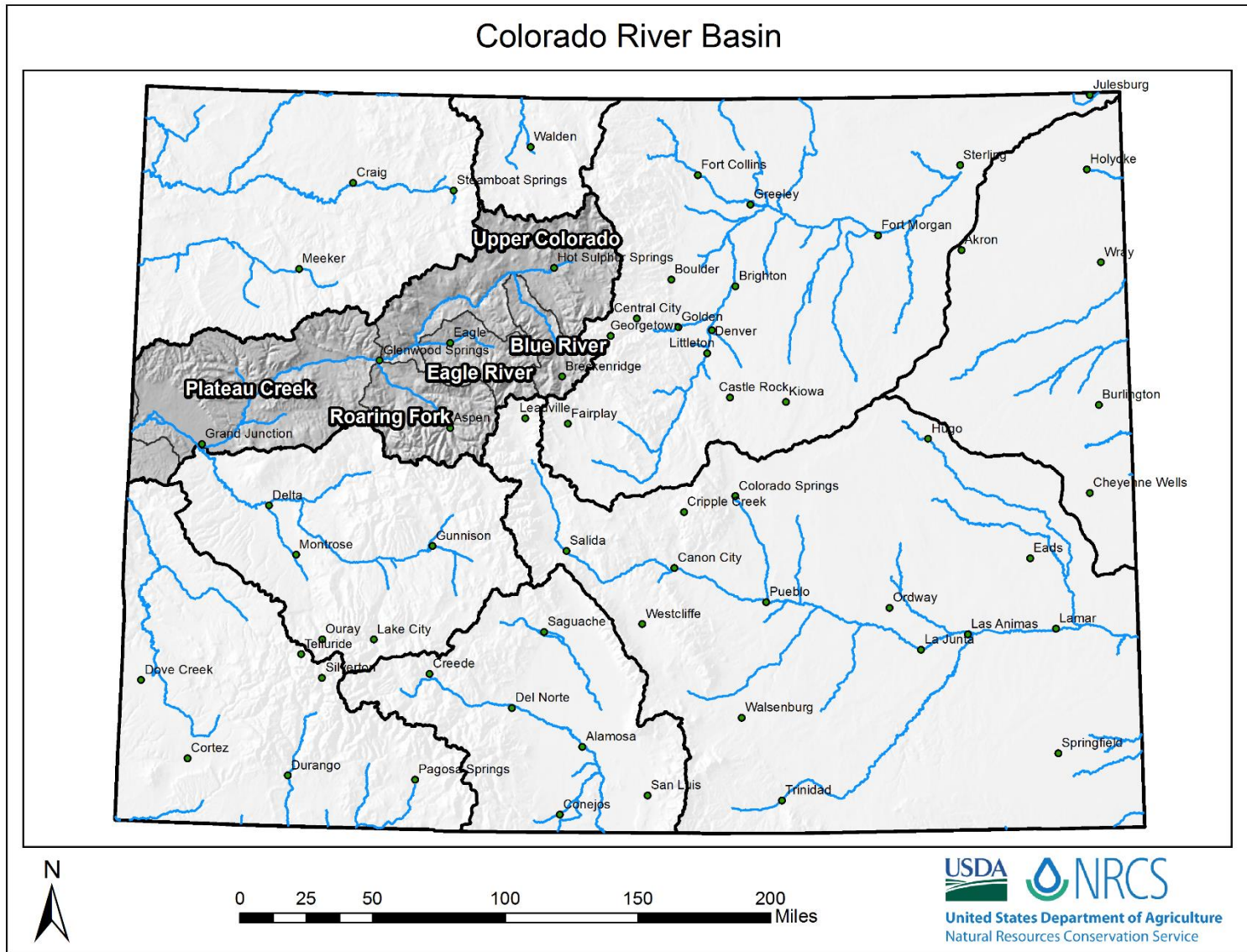


Yampa, White, and North Platte River Basins Streamflow Forecast Summary June 1, 2017





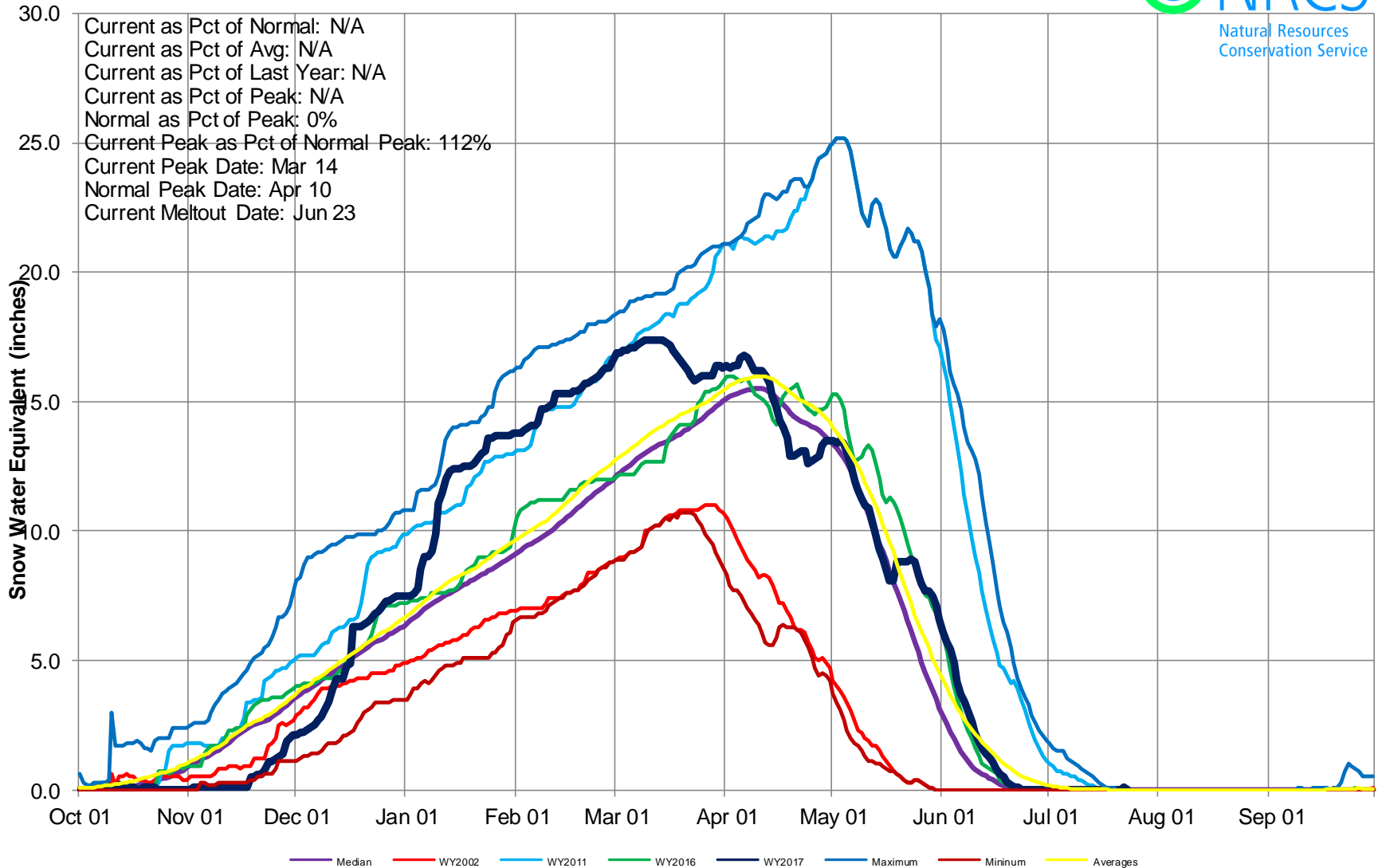
Major Basin Summary





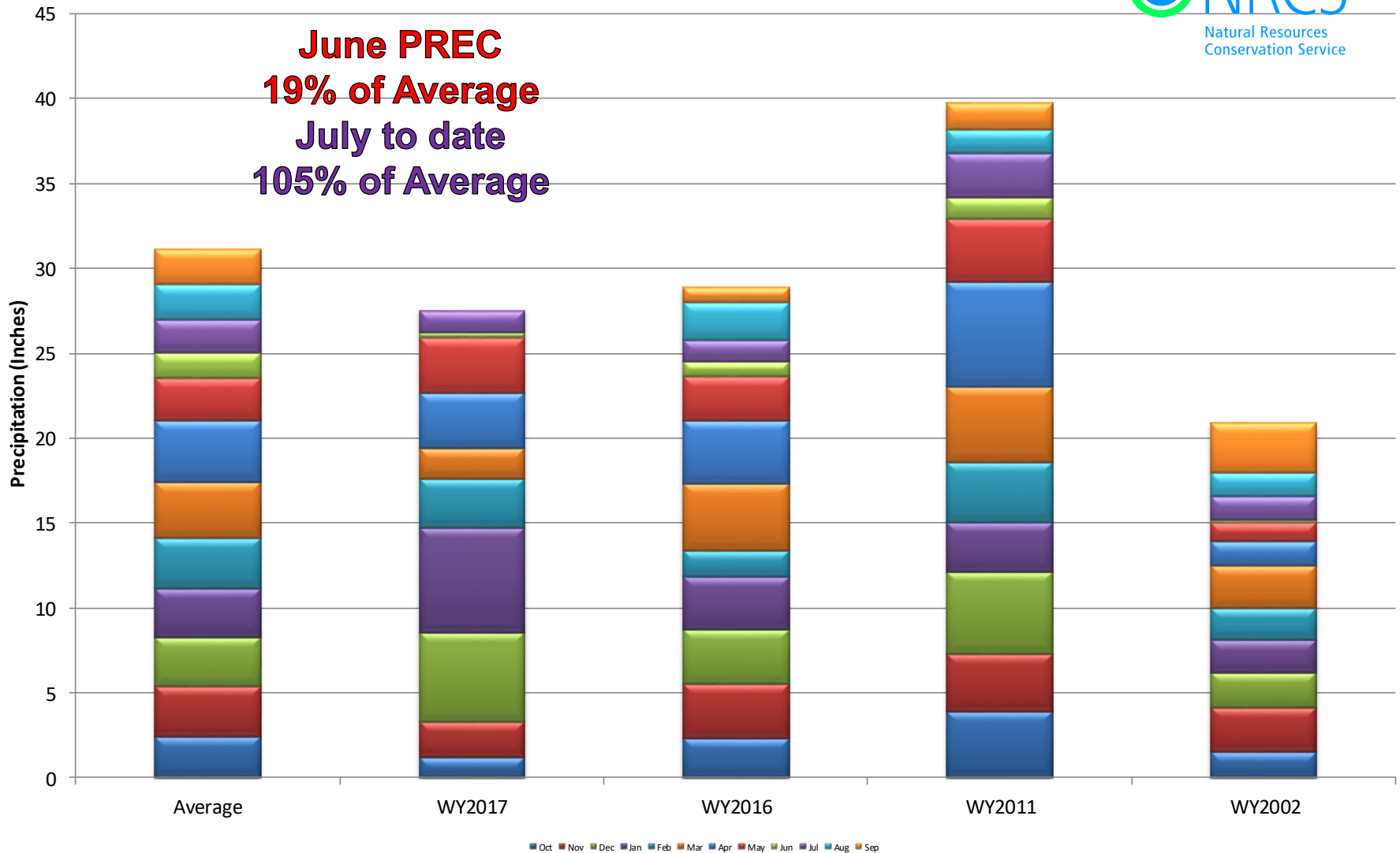
Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



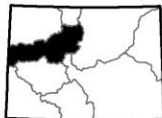
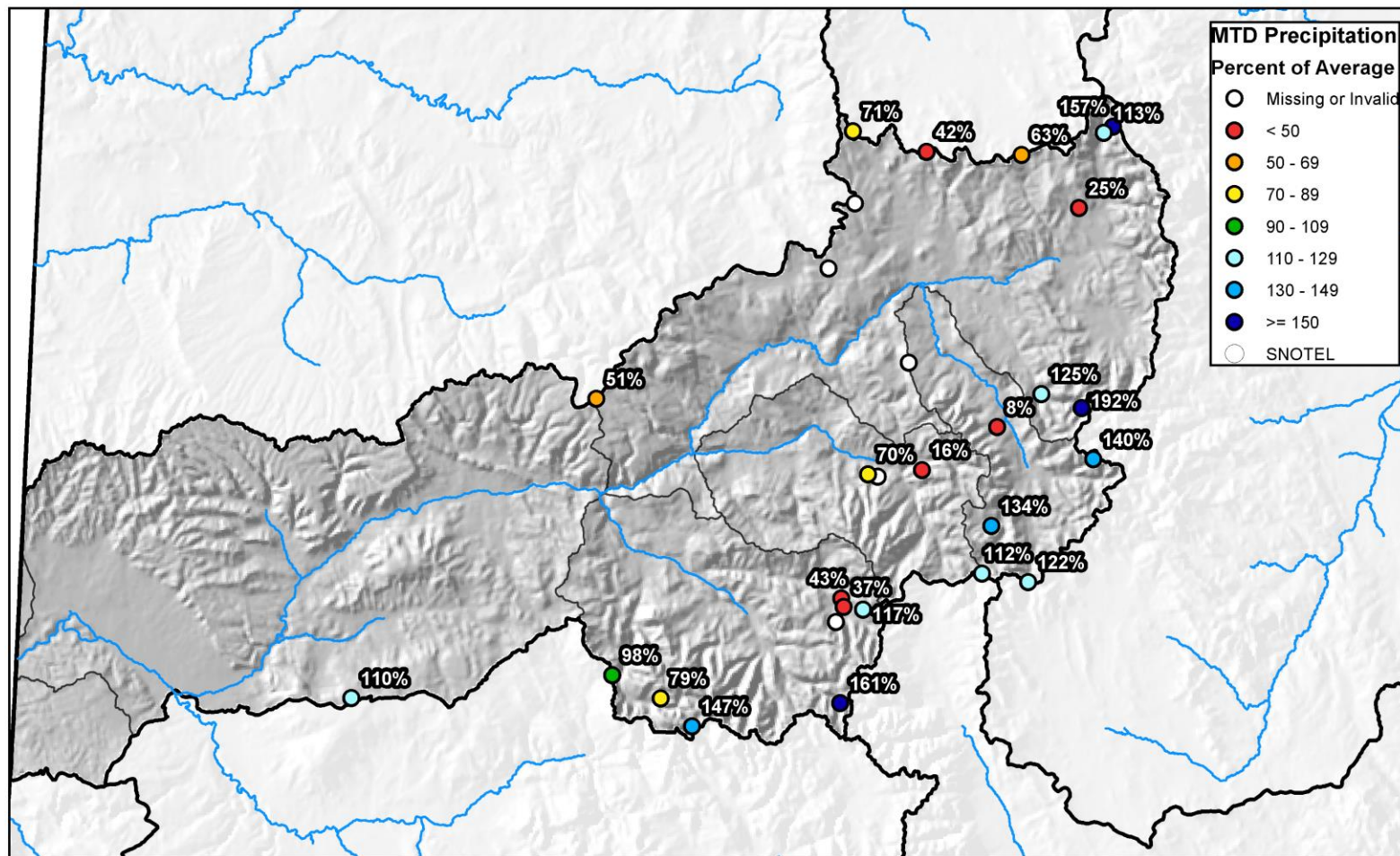
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



Upper Colorado River Basin Month to Date Precipitation Summary

Current as of Jul 24, 2017



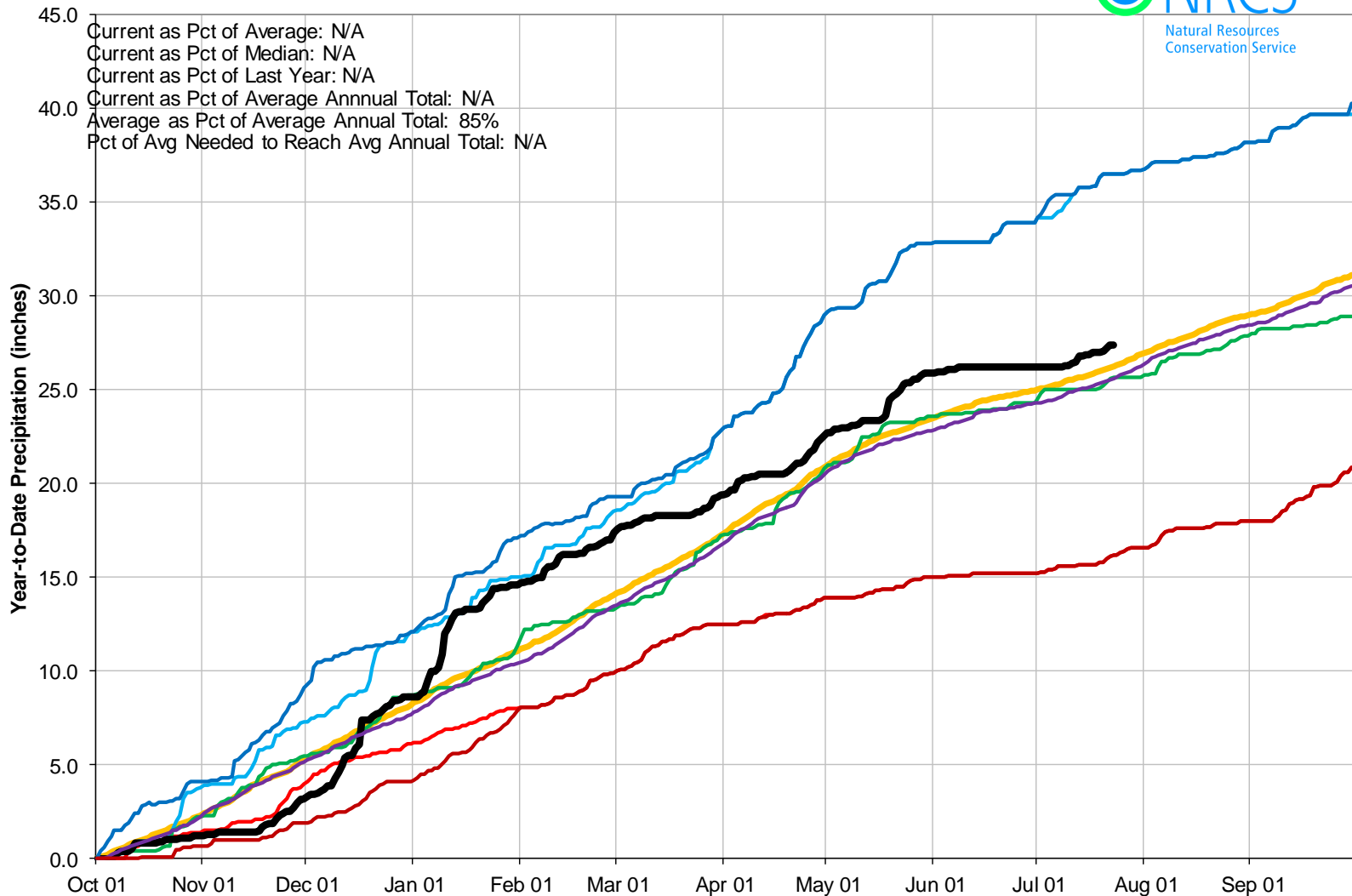
United States Department of Agriculture

Natural Resources Conservation Service



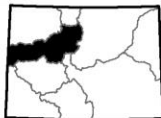
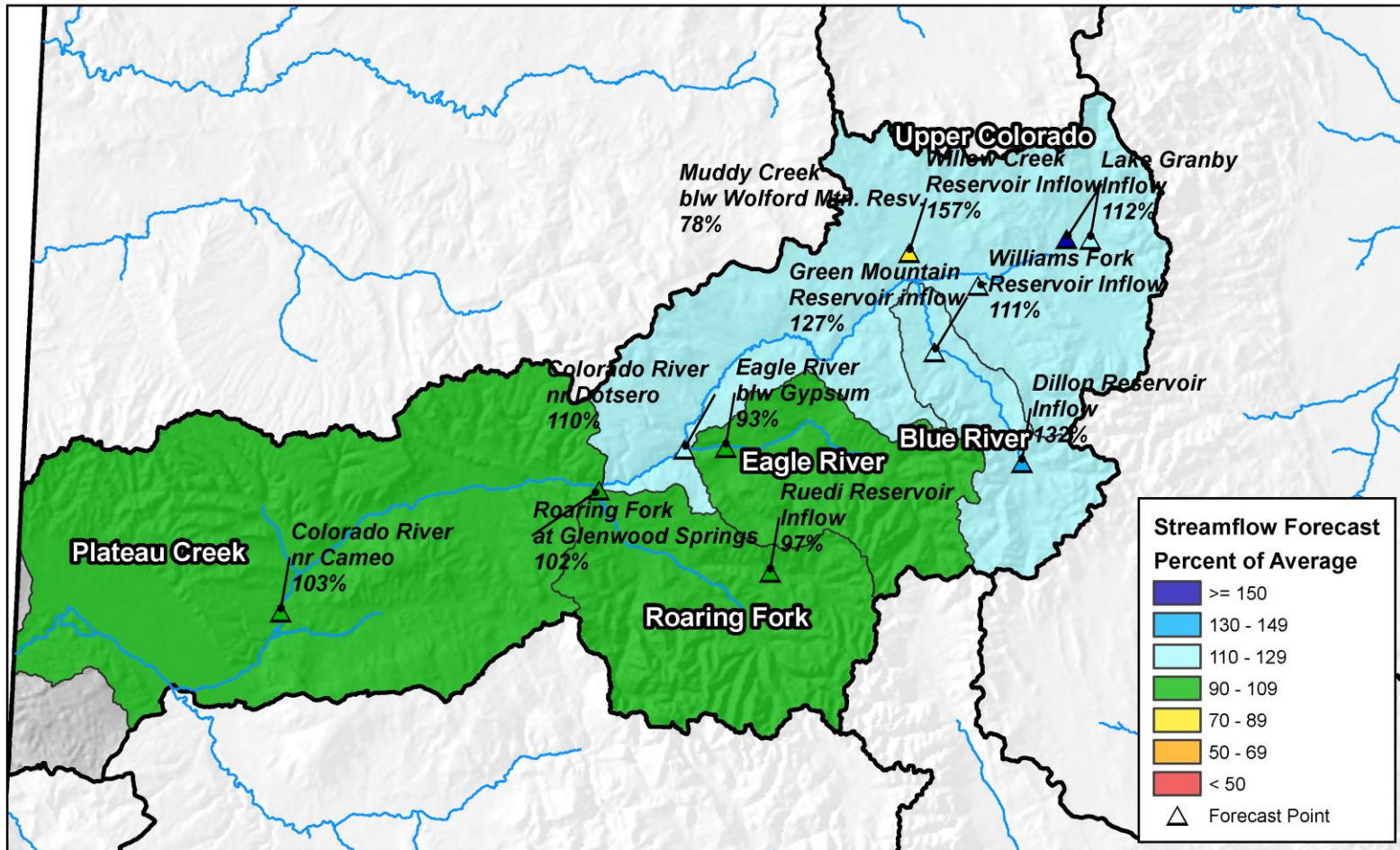
Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



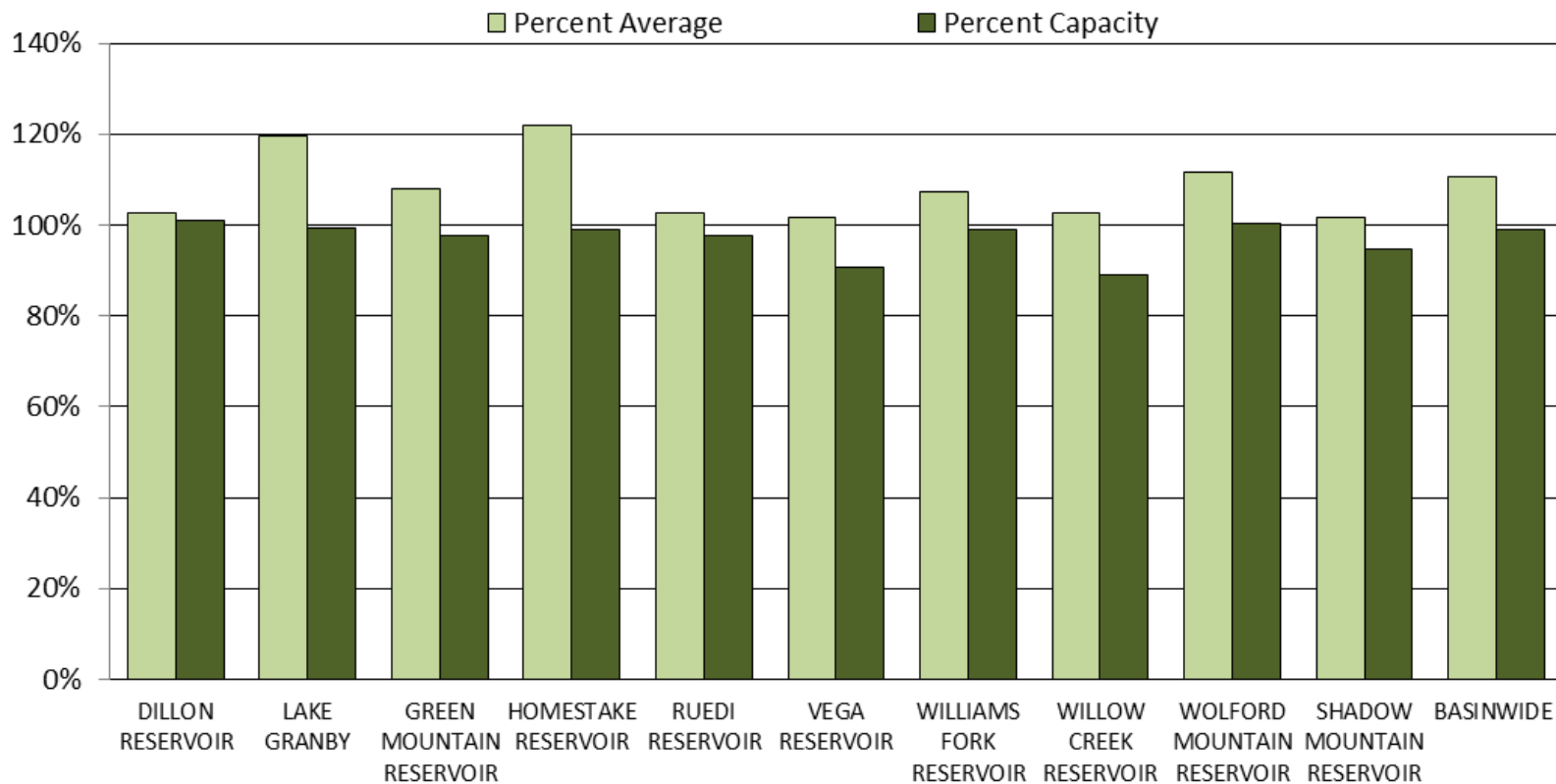
Upper Colorado River Basin Streamflow Forecast Summary

June 1, 2017

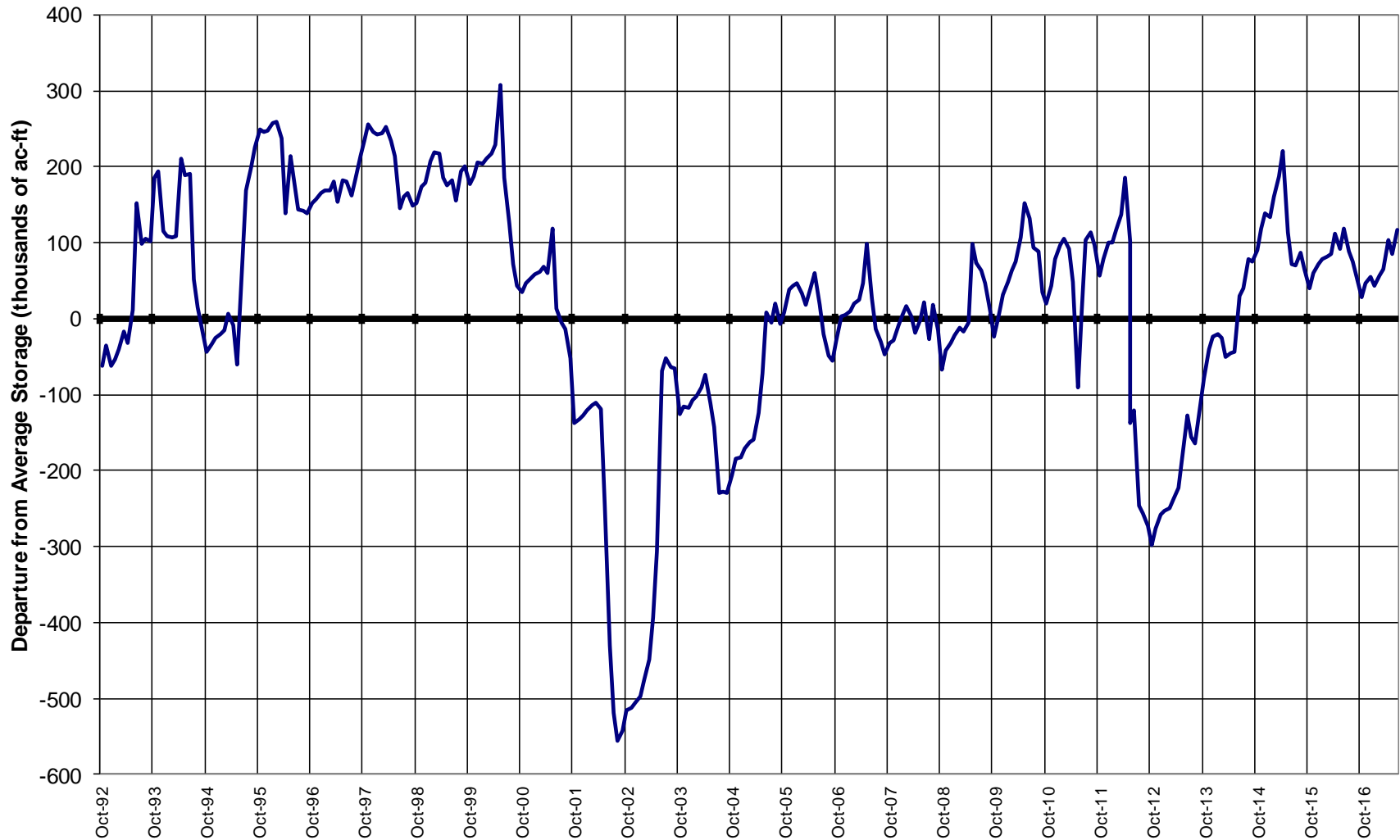


0 10 20 40 60 80 Miles

Reservoir Storage

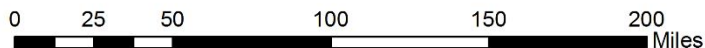
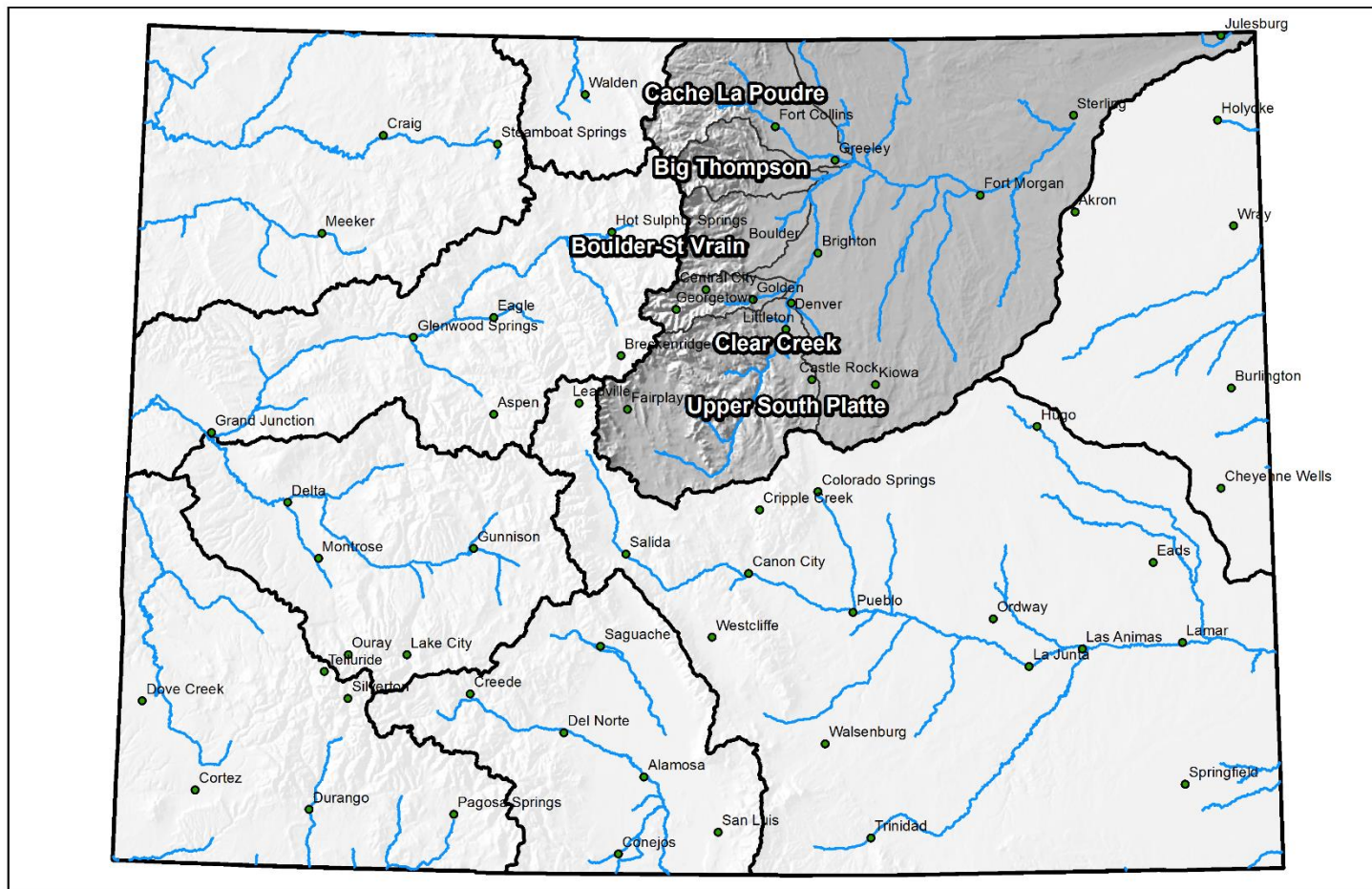


COLORADO RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

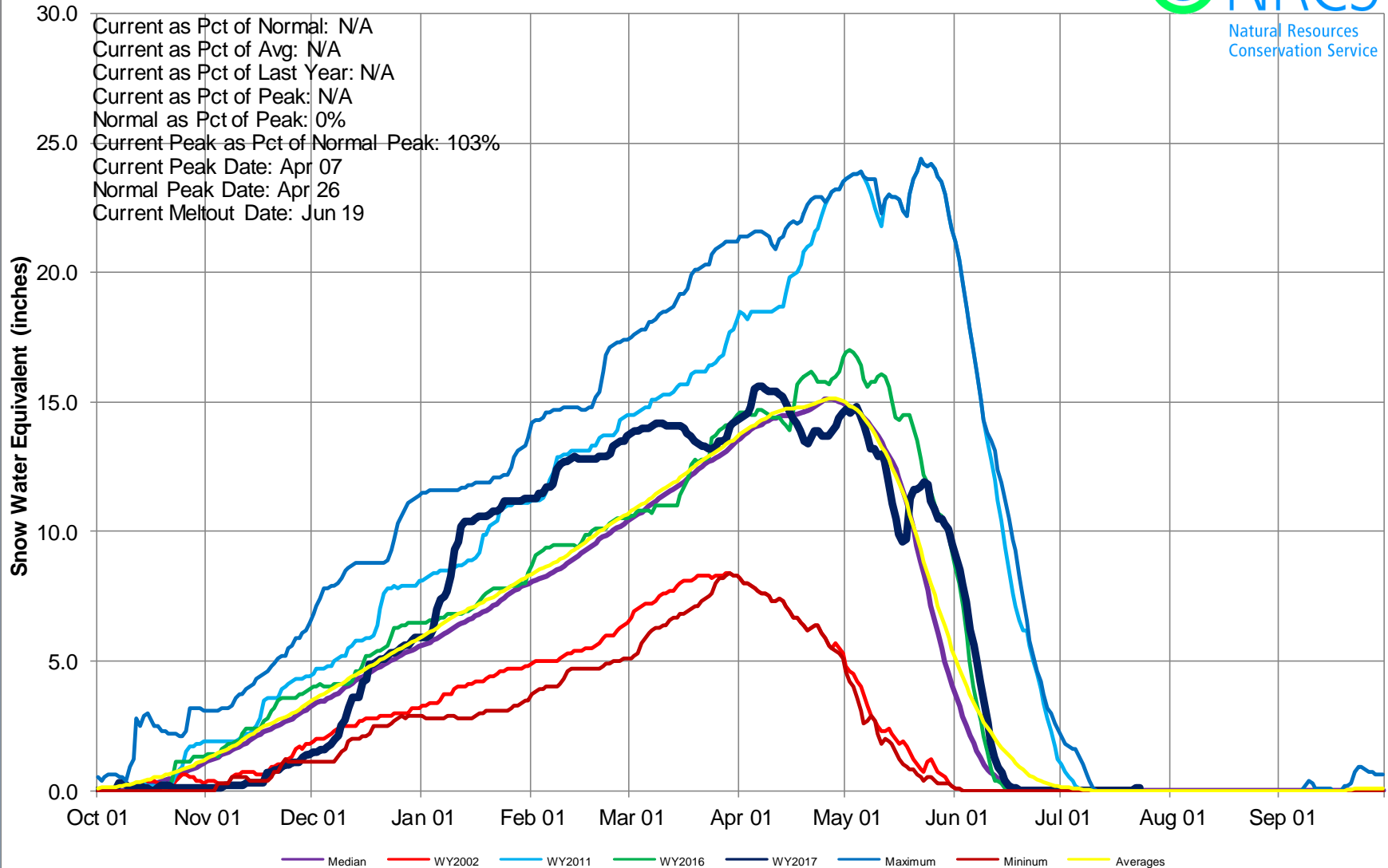
South Platte River Basin





South Platte River Basin High/Low Snowpack Summary

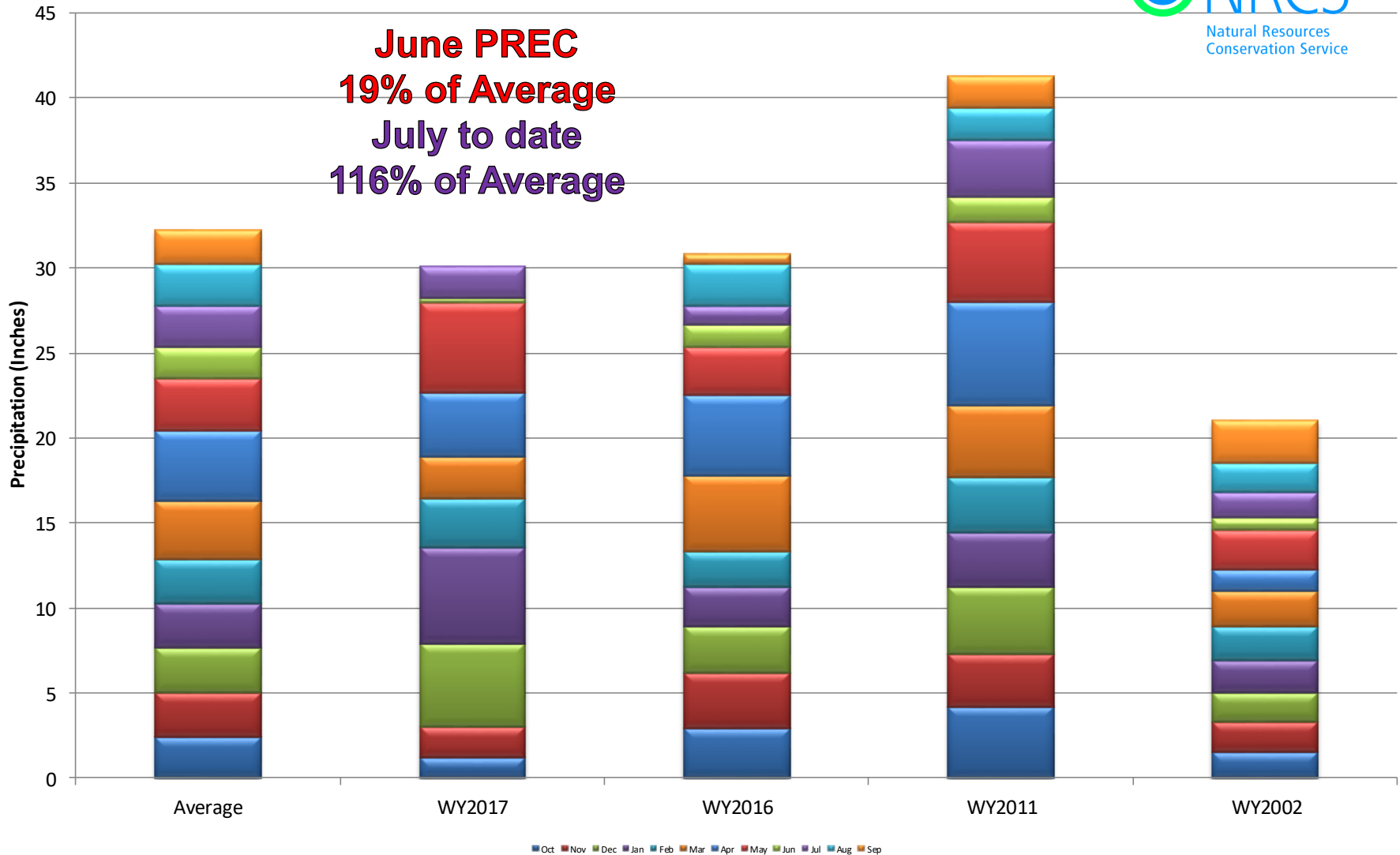
Based on Provisional SNOTEL data as of Jul 24, 2017





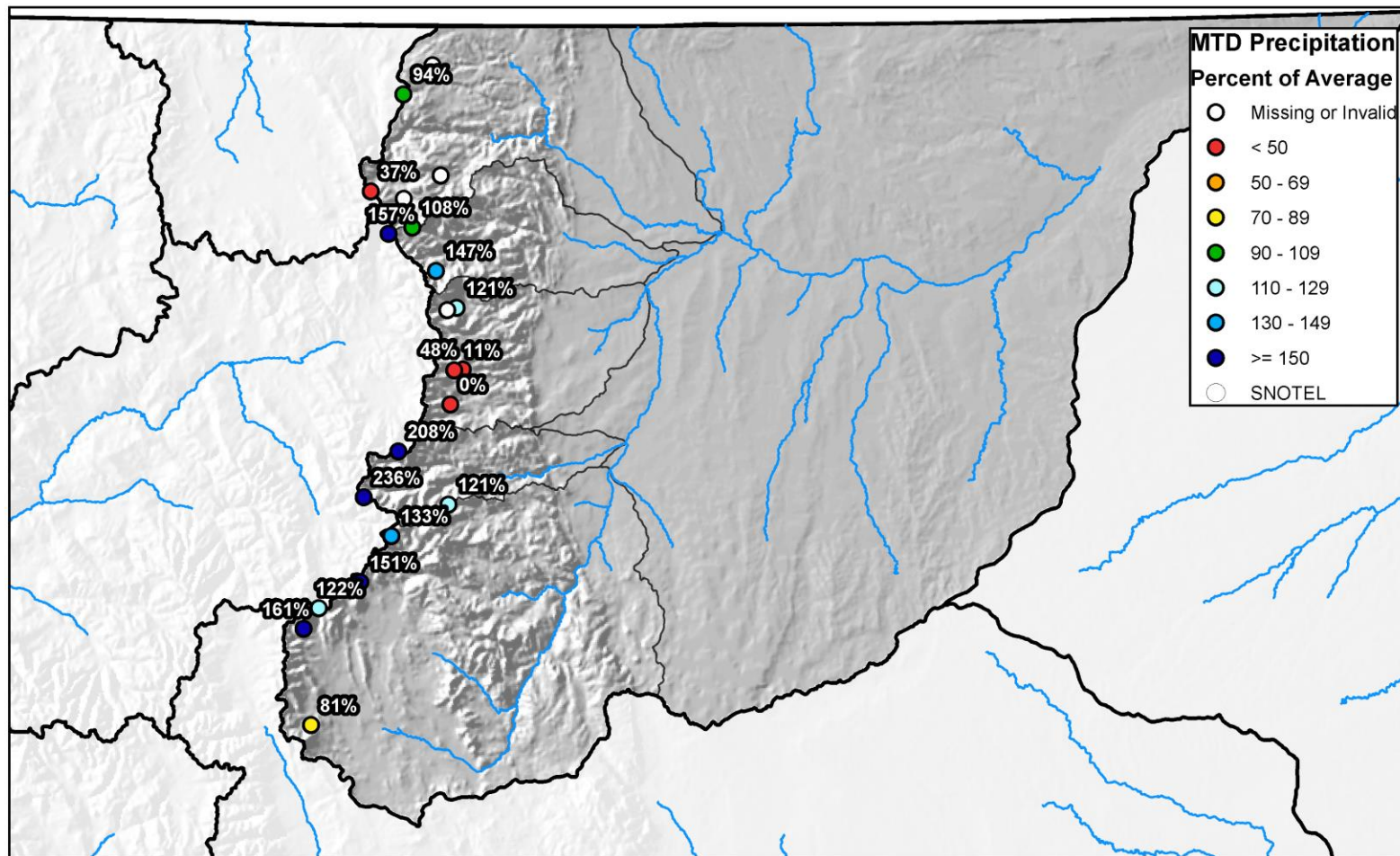
South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



South Platte River Basin Month to Date Precipitation Summary

Current as of Jul 24, 2017

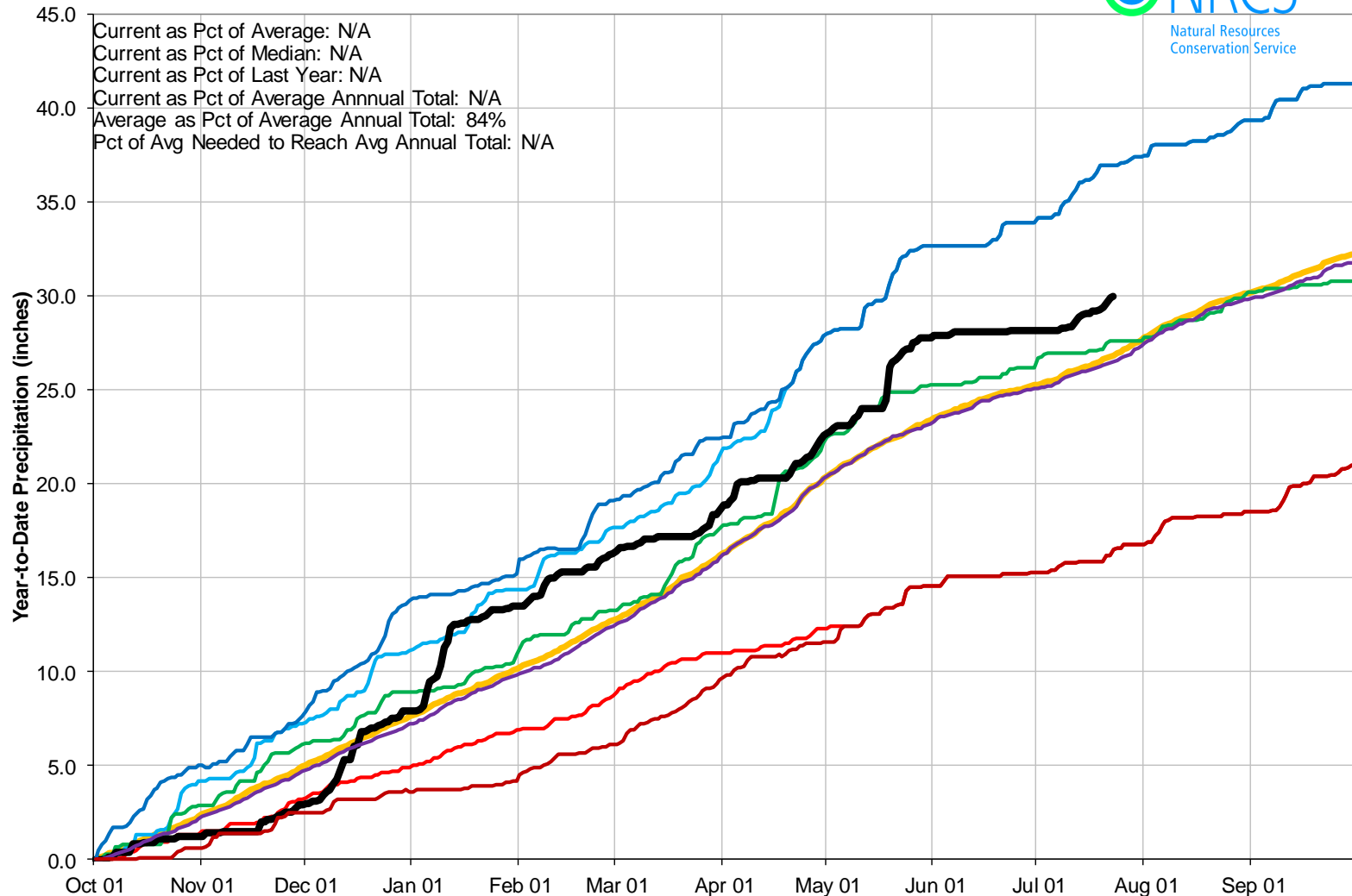


0 10 20 40 60 80 Miles



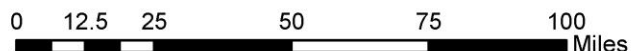
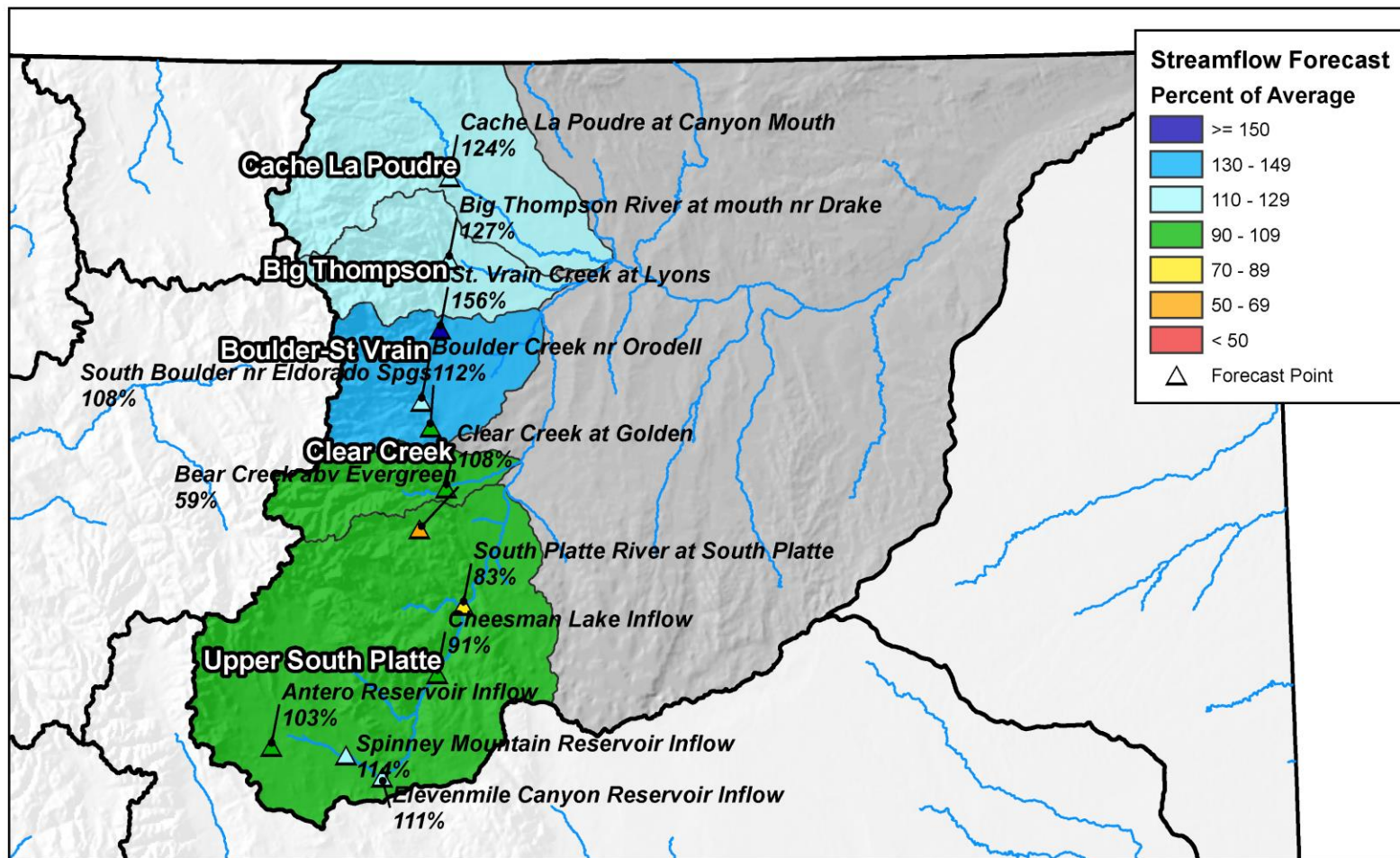
South Platte River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



South Platte River Basin Streamflow Forecast Summary

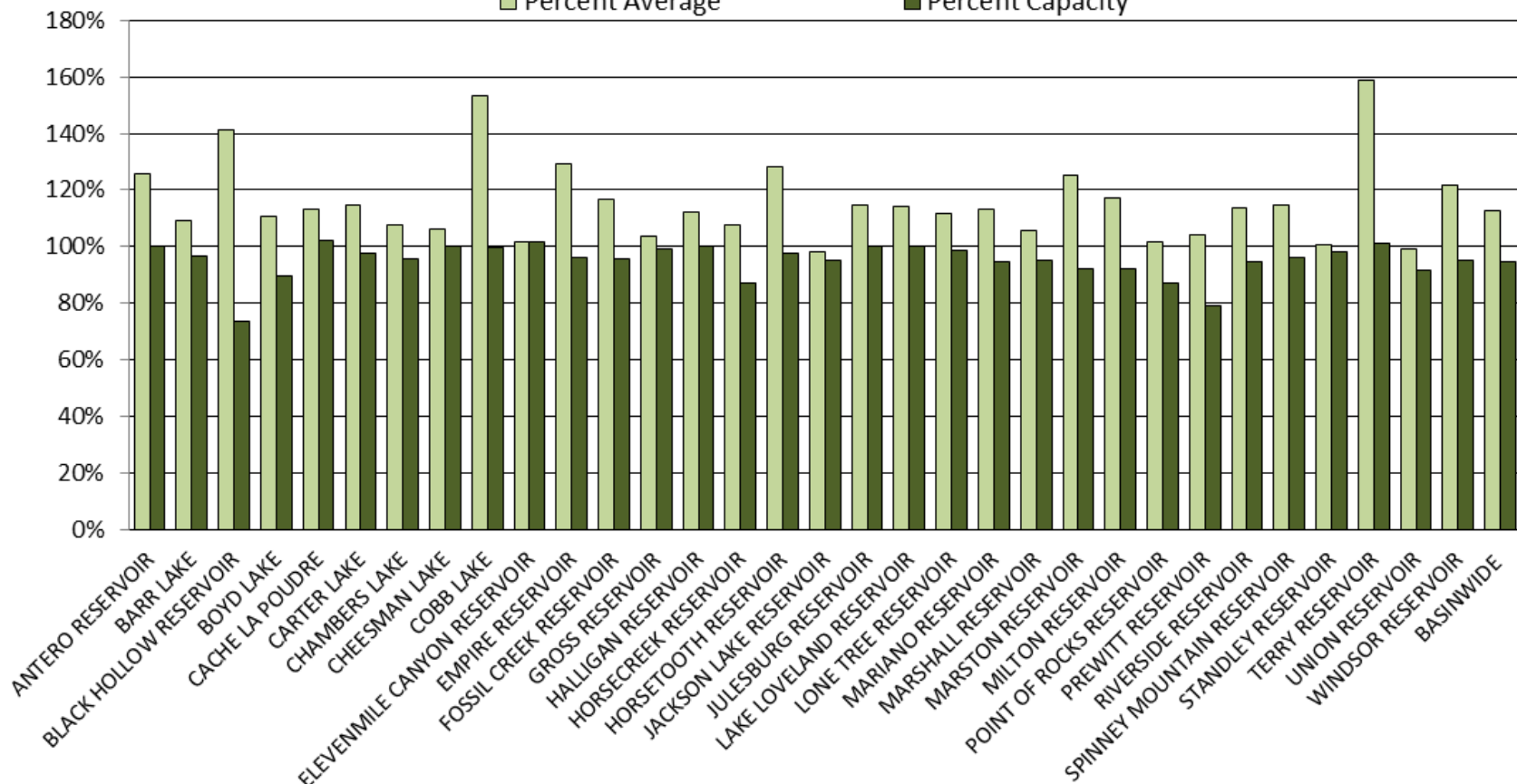
June 1, 2017



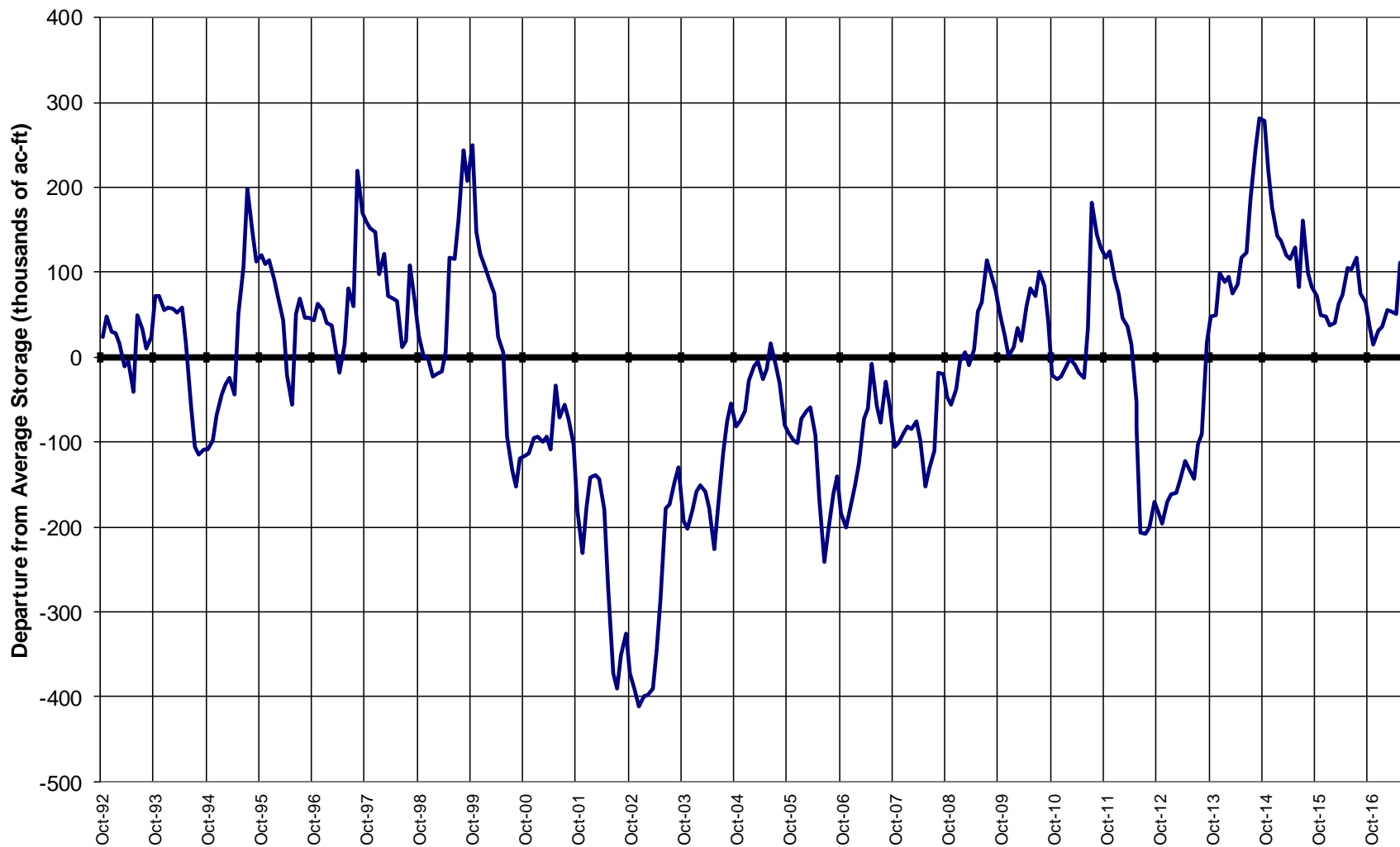
Reservoir Storage

■ Percent Average

■ Percent Capacity

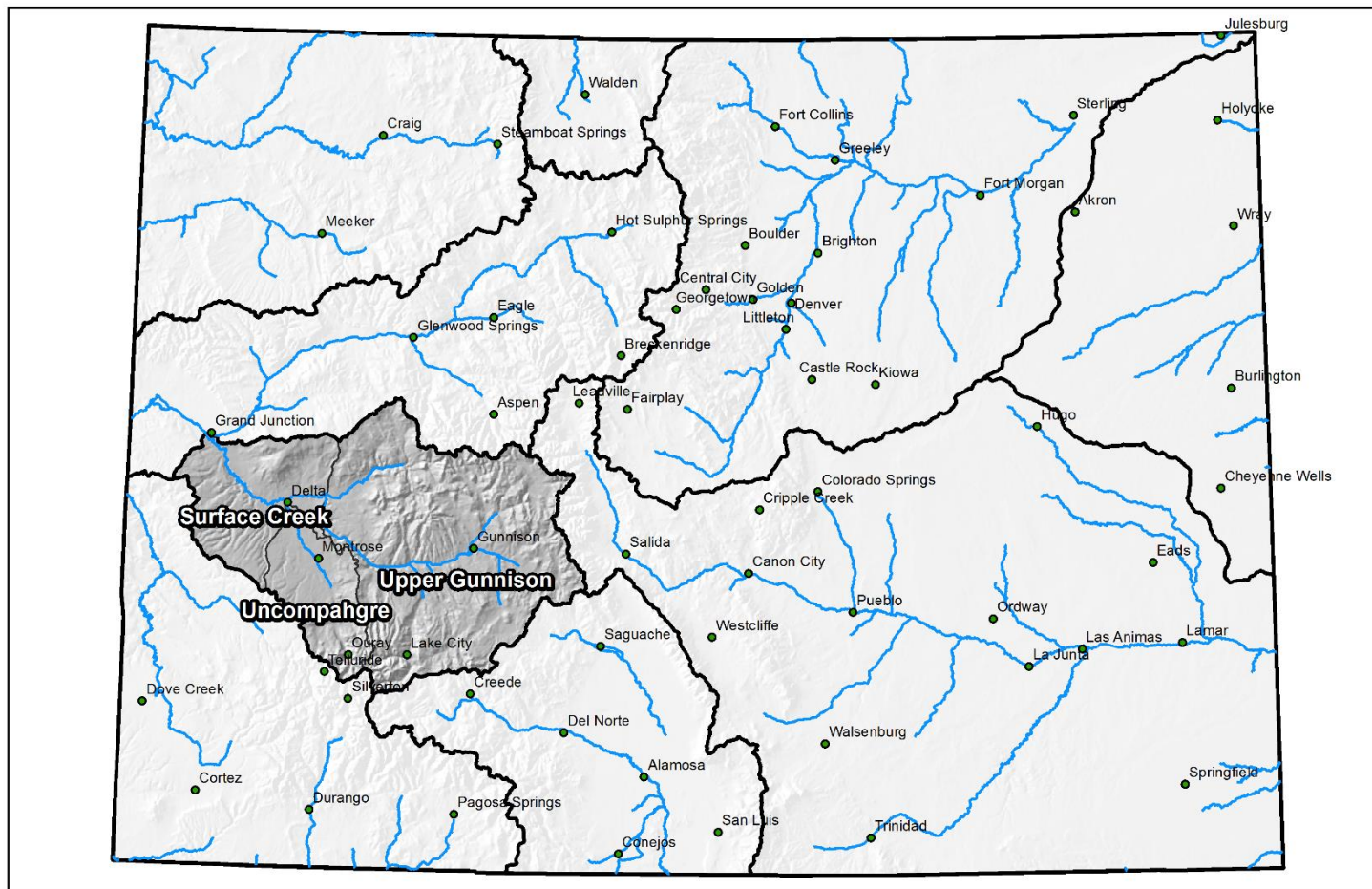


SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

Gunnison River Basin

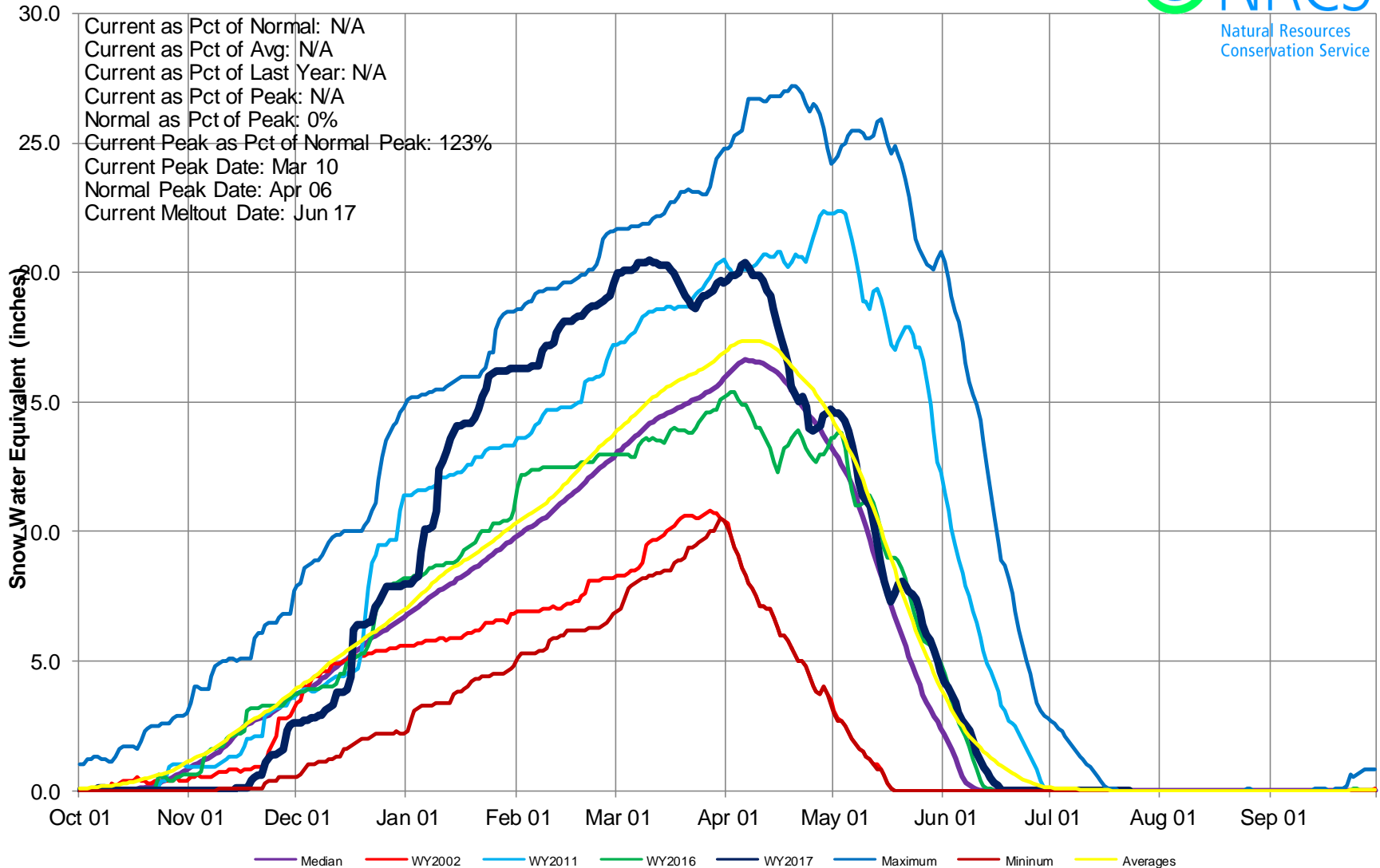


0 25 50 100 150 200 Miles



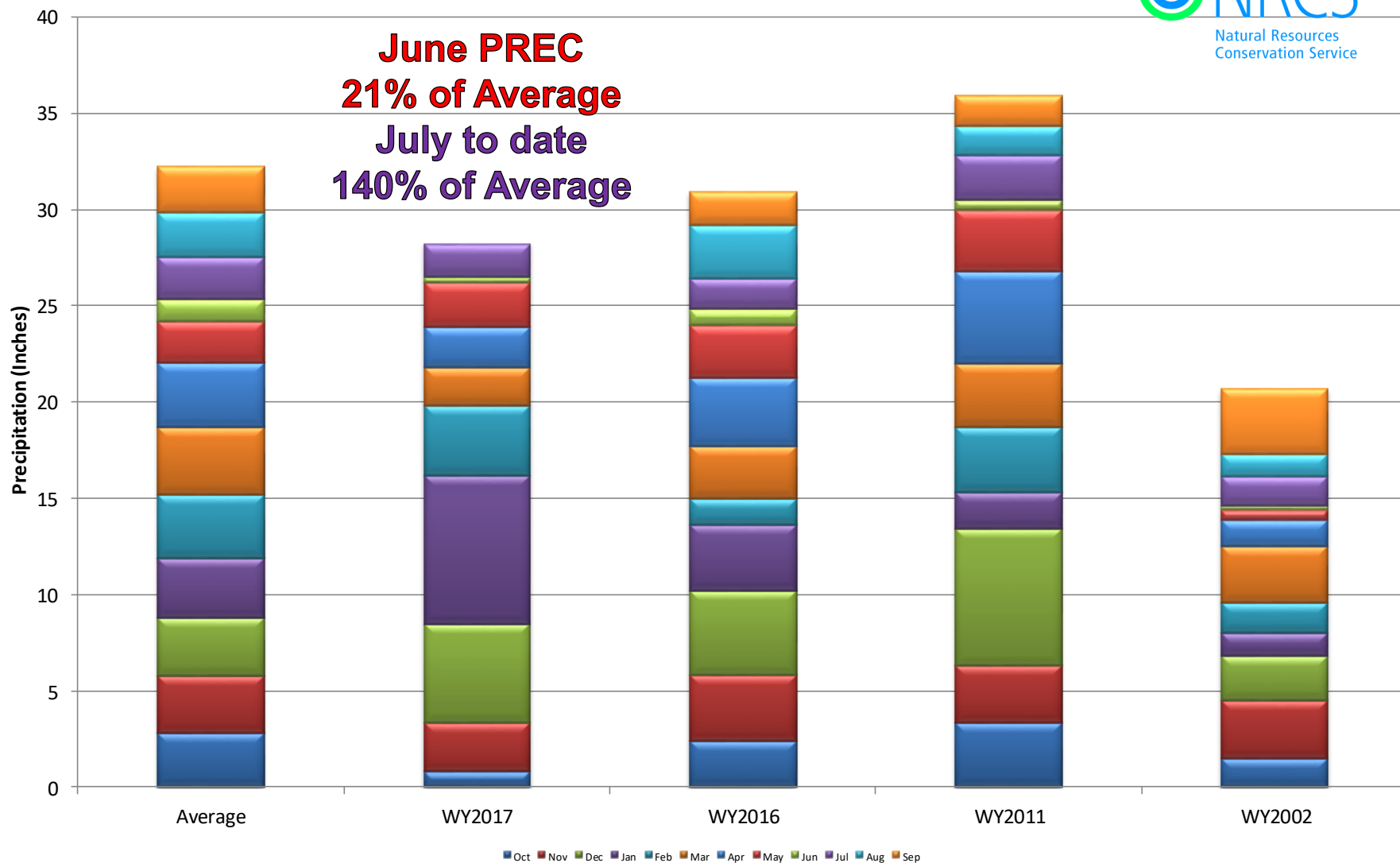
Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



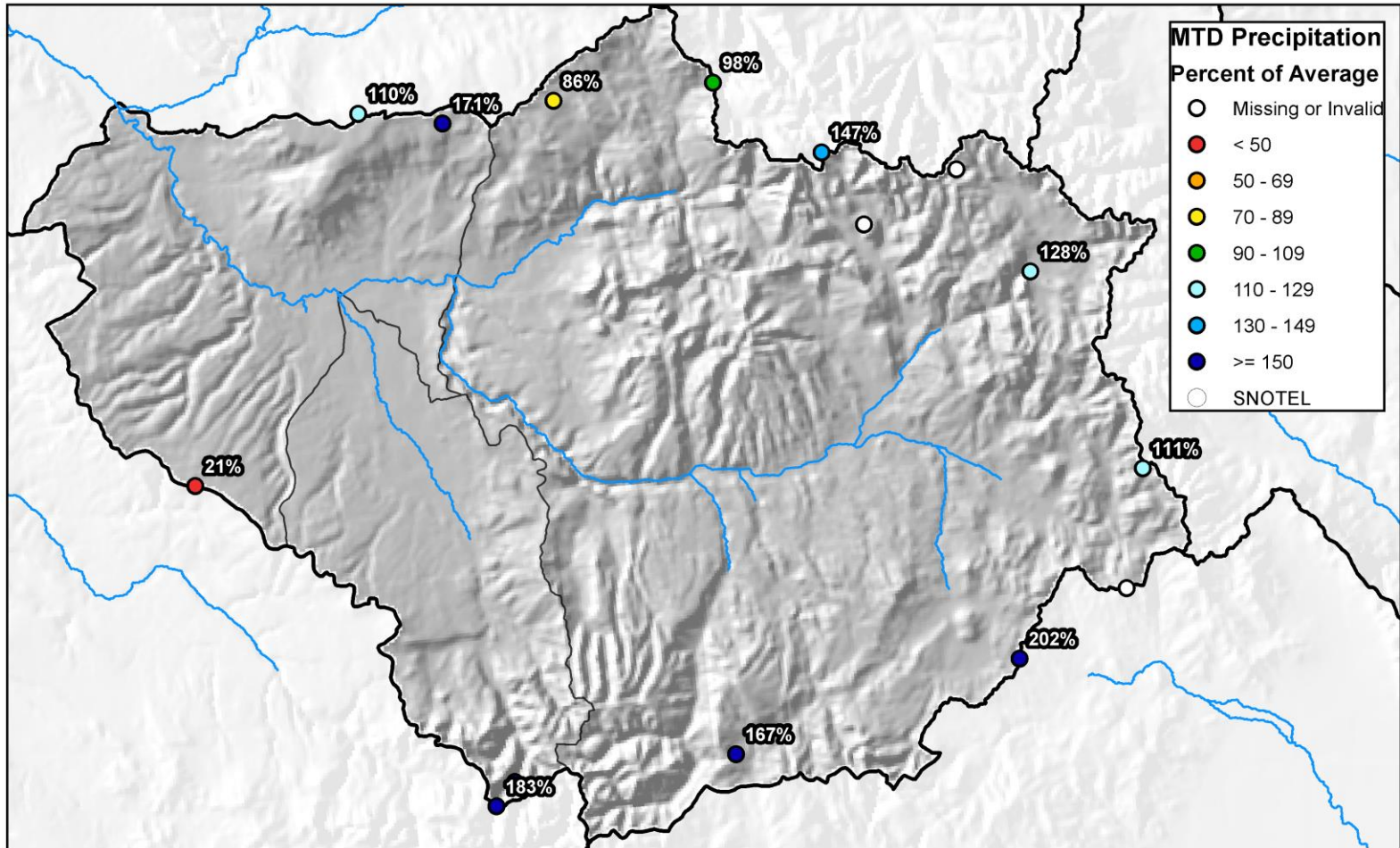
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



Gunnison River Basin Month to Date Precipitation Summary

Current as of Jul 24, 2017

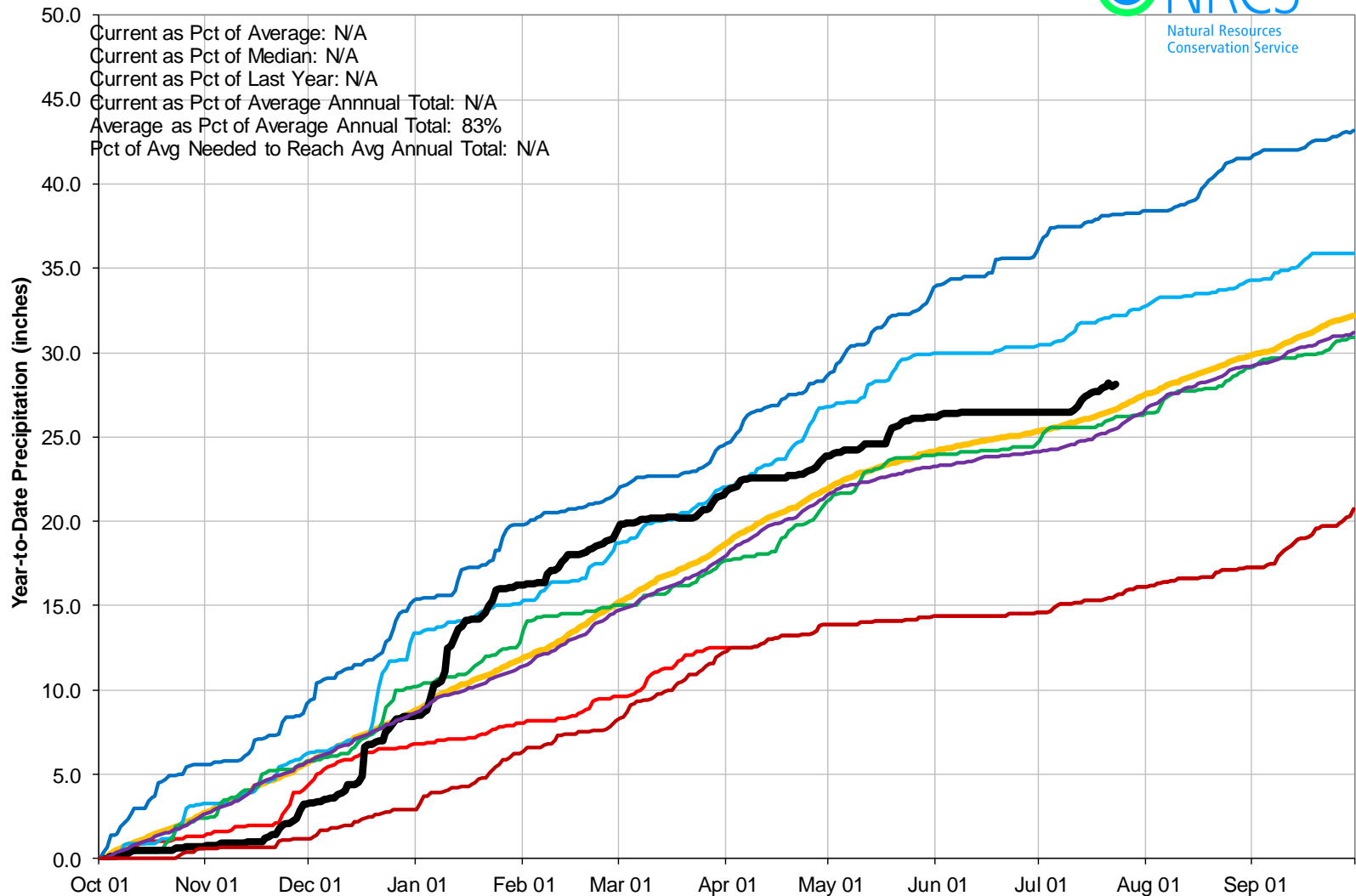


0 5 10 20 30 40 Miles



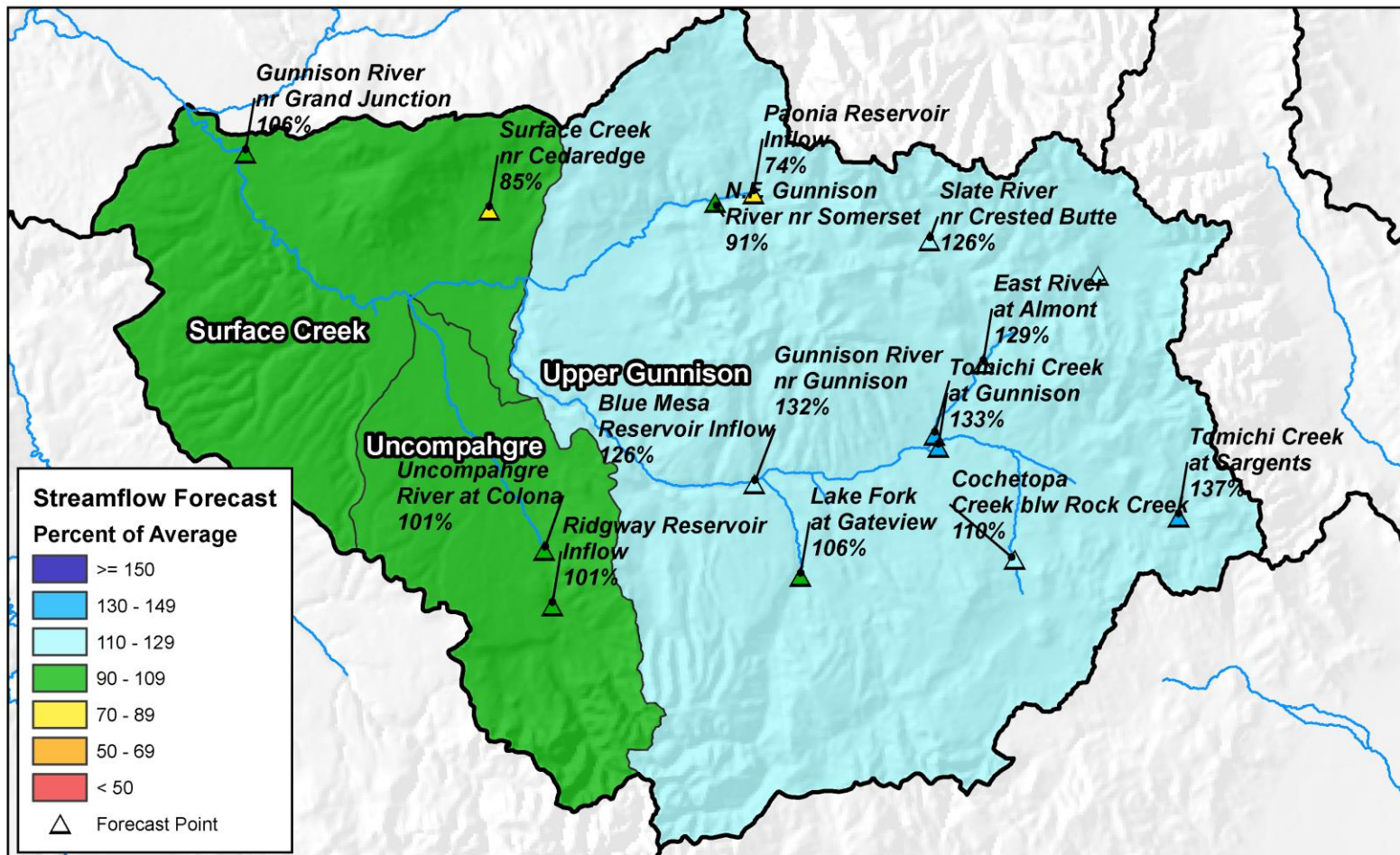
Gunnison River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



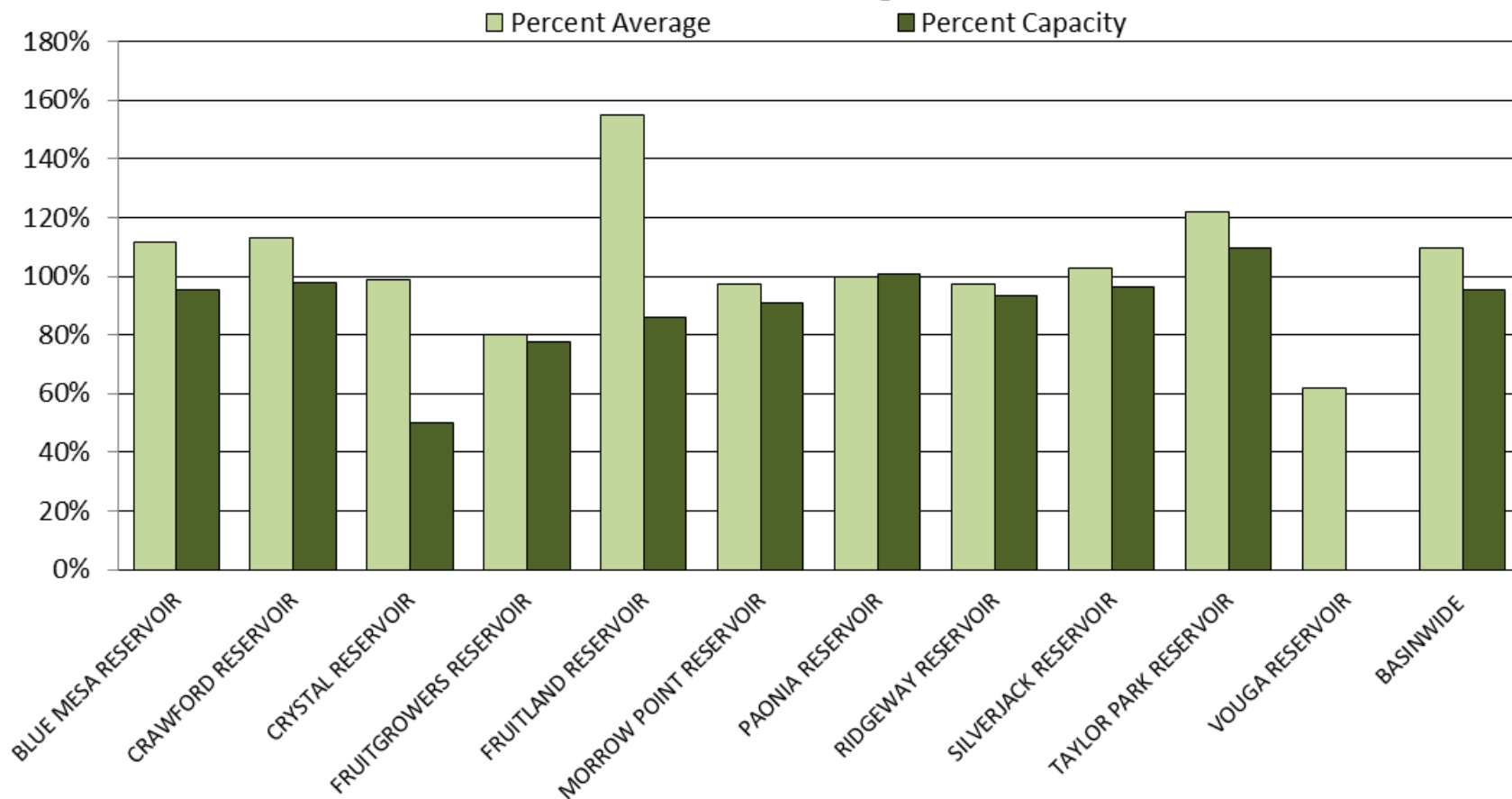
Gunnison River Basin Water Supply Forecast Summary

June 1, 2017

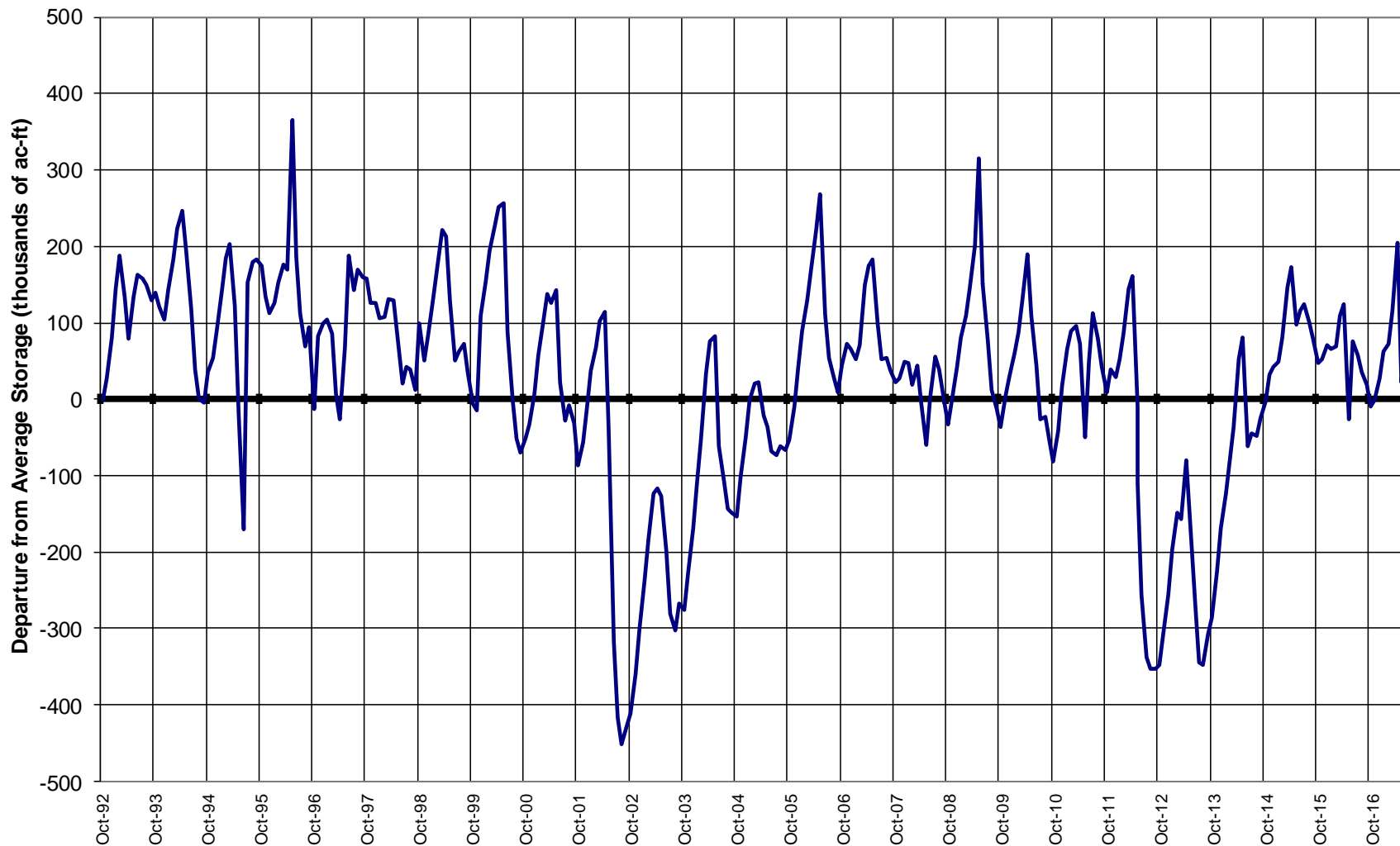


0 5 10 20 30 40 Miles

Reservoir Storage

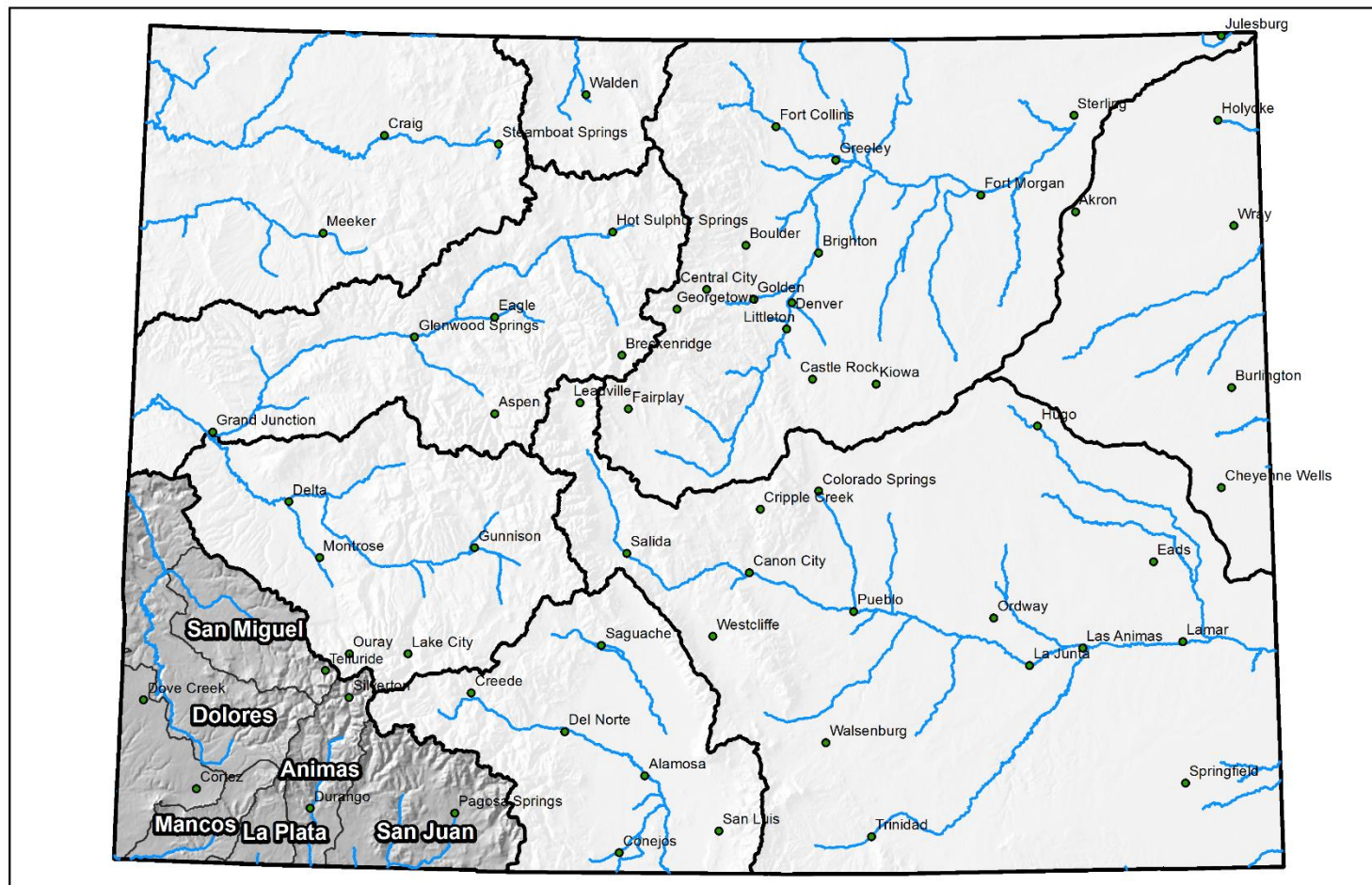


GUNNISON RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

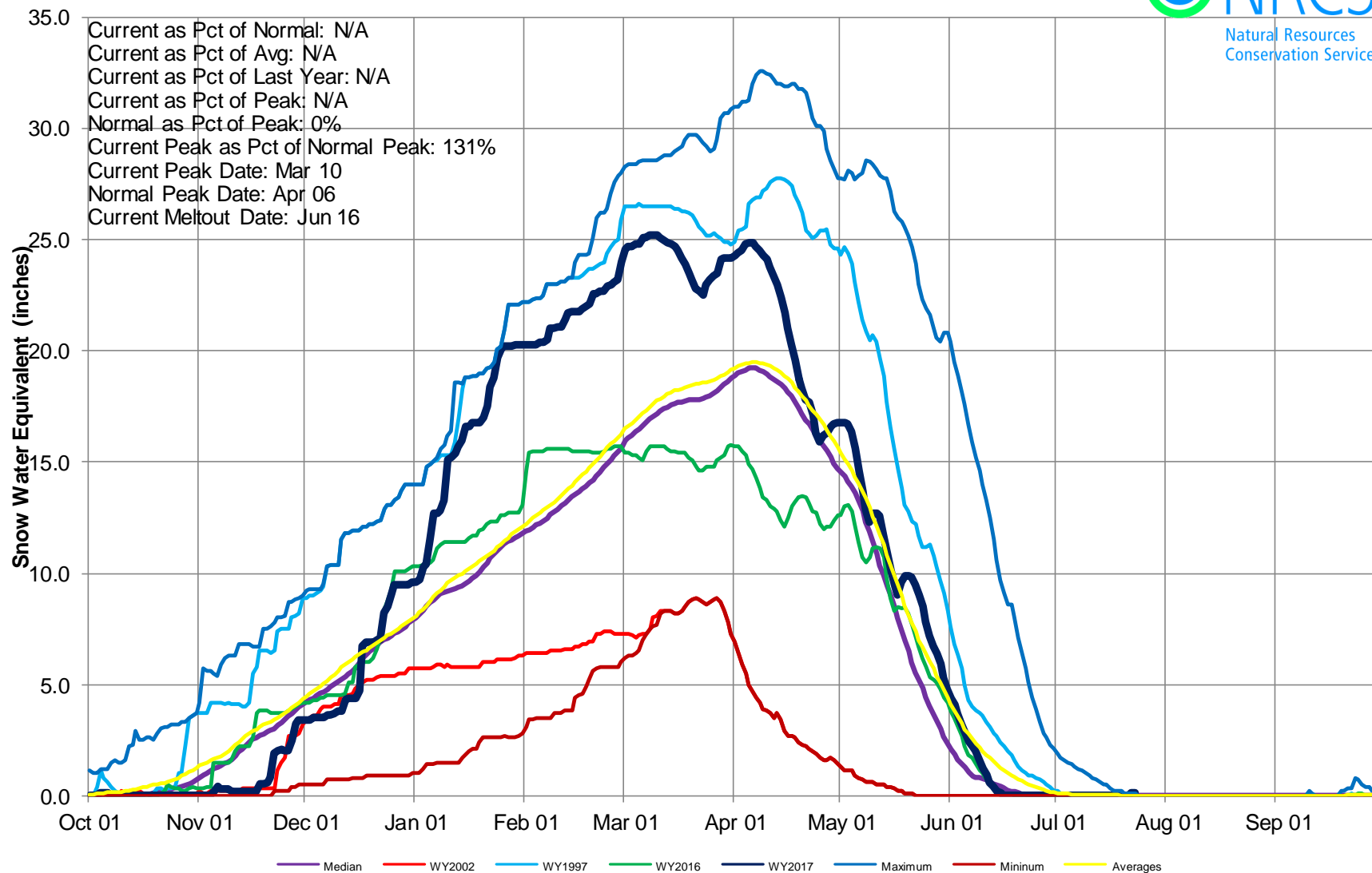
San Miguel, Dolores, Animas, and San Juan River Basins



0 25 50 100 150 200 Miles

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

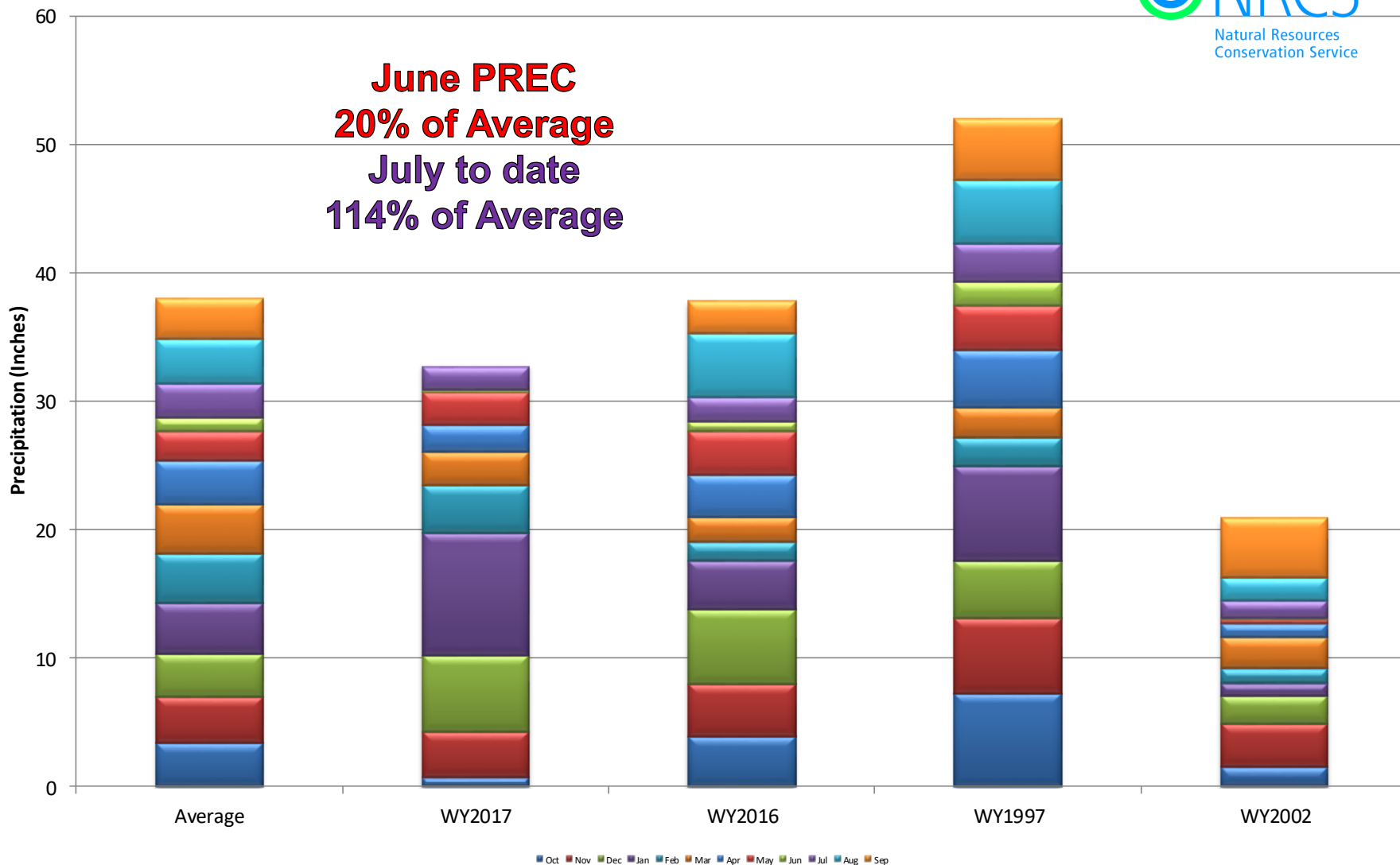
Based on Provisional SNOTEL data as of Jul 24, 2017



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



June PREC
20% of Average
July to date
114% of Average

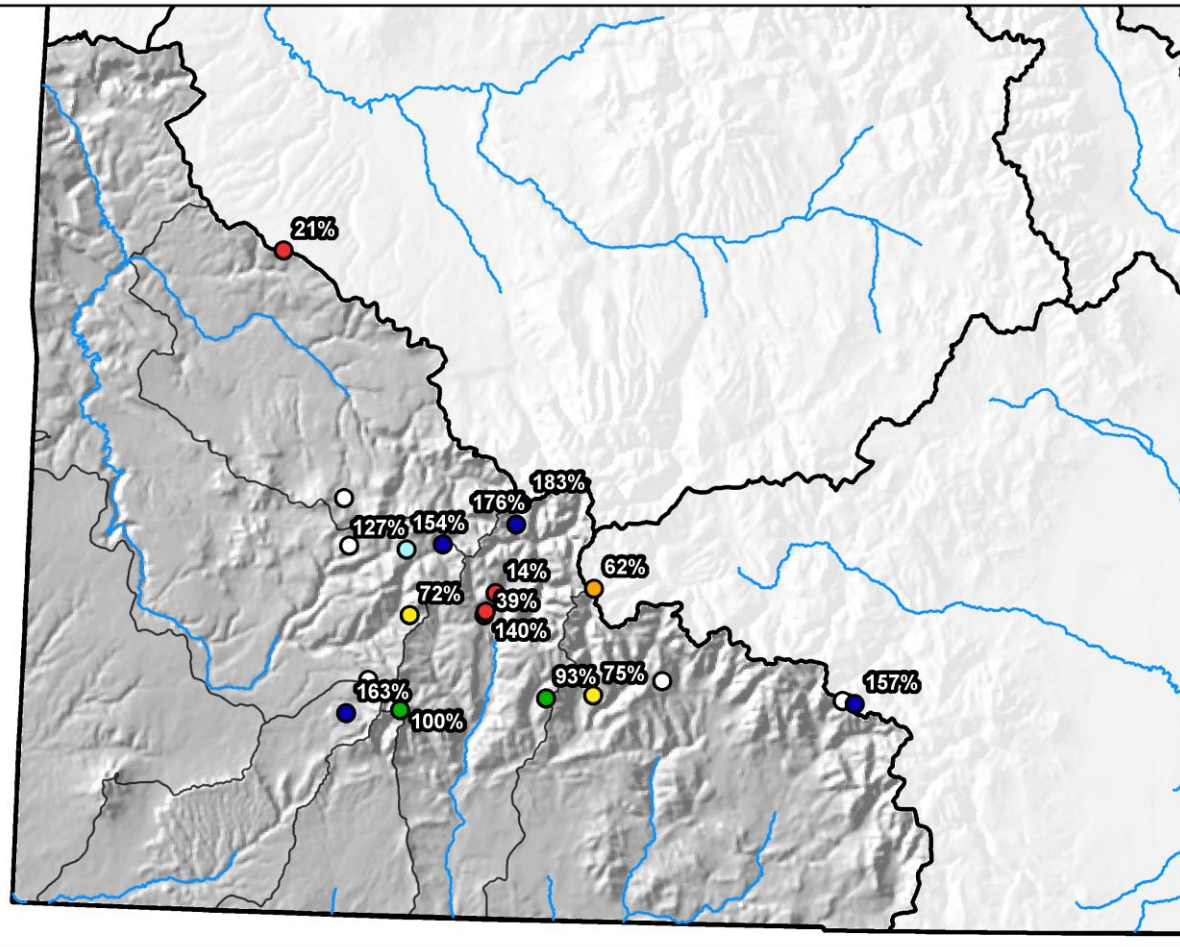


San Miguel, Dolores, Animas, and San Juan River Basins Month to Date Precipitation Summary

Current as of Jul 24, 2017

MTD Precipitation Percent of Average

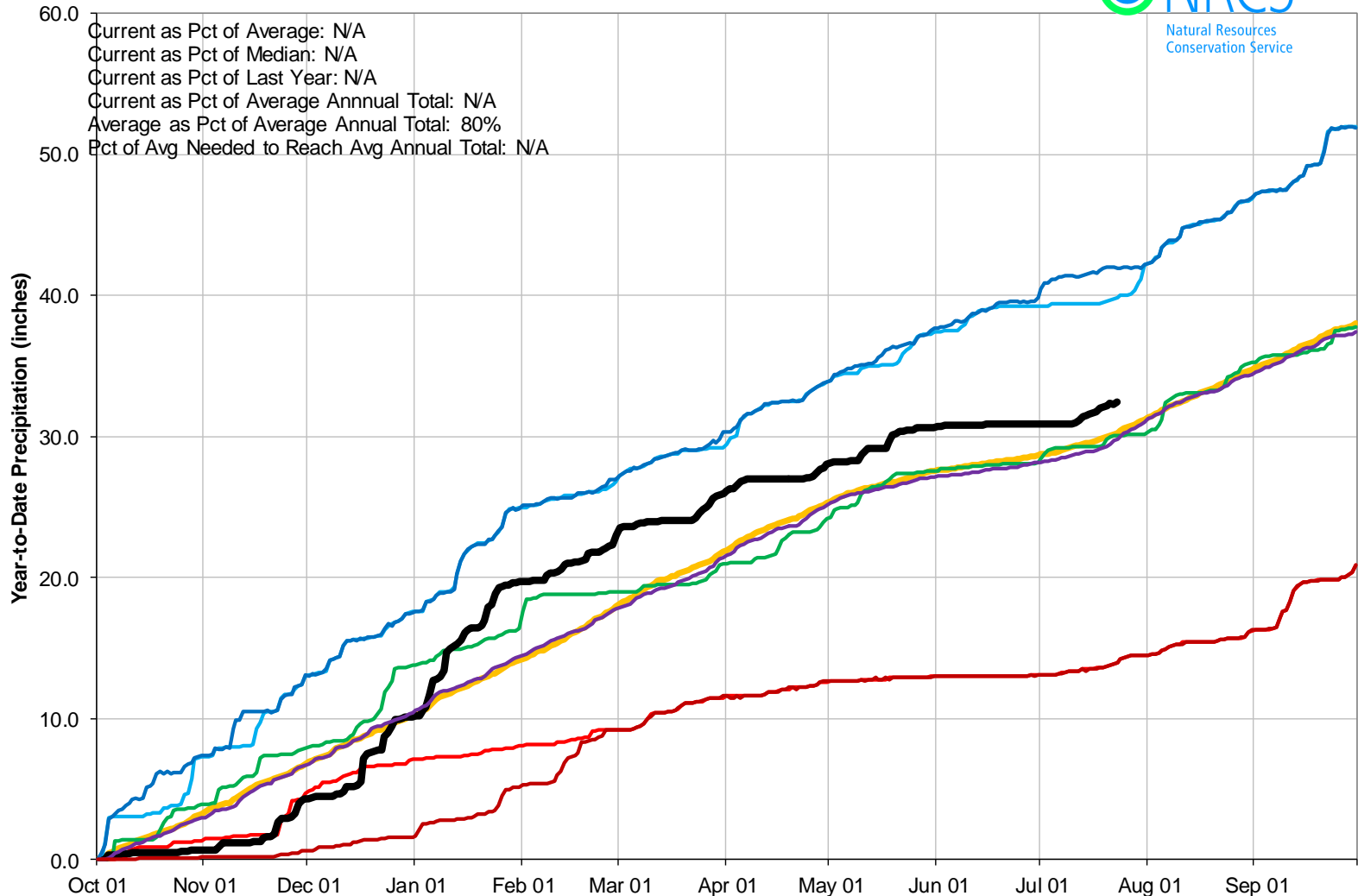
- Missing or Invalid
- < 50
- 50 - 69
- 70 - 89
- 90 - 109
- 110 - 129
- 130 - 149
- ≥ 150
- SNOTEL



0 10 20 40 60 80 Miles

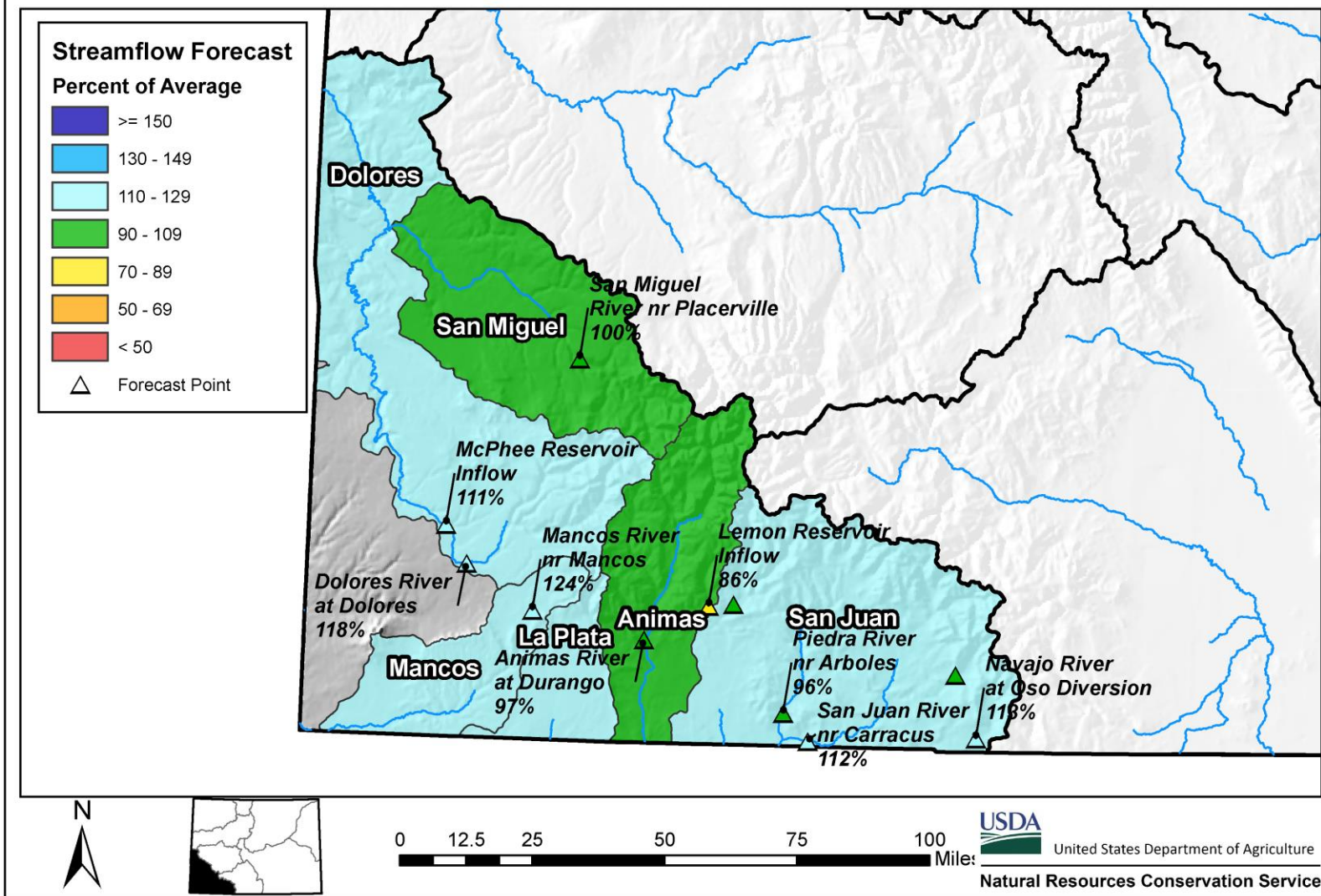
San Miguel, Dolores, Animas & San Juan River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017

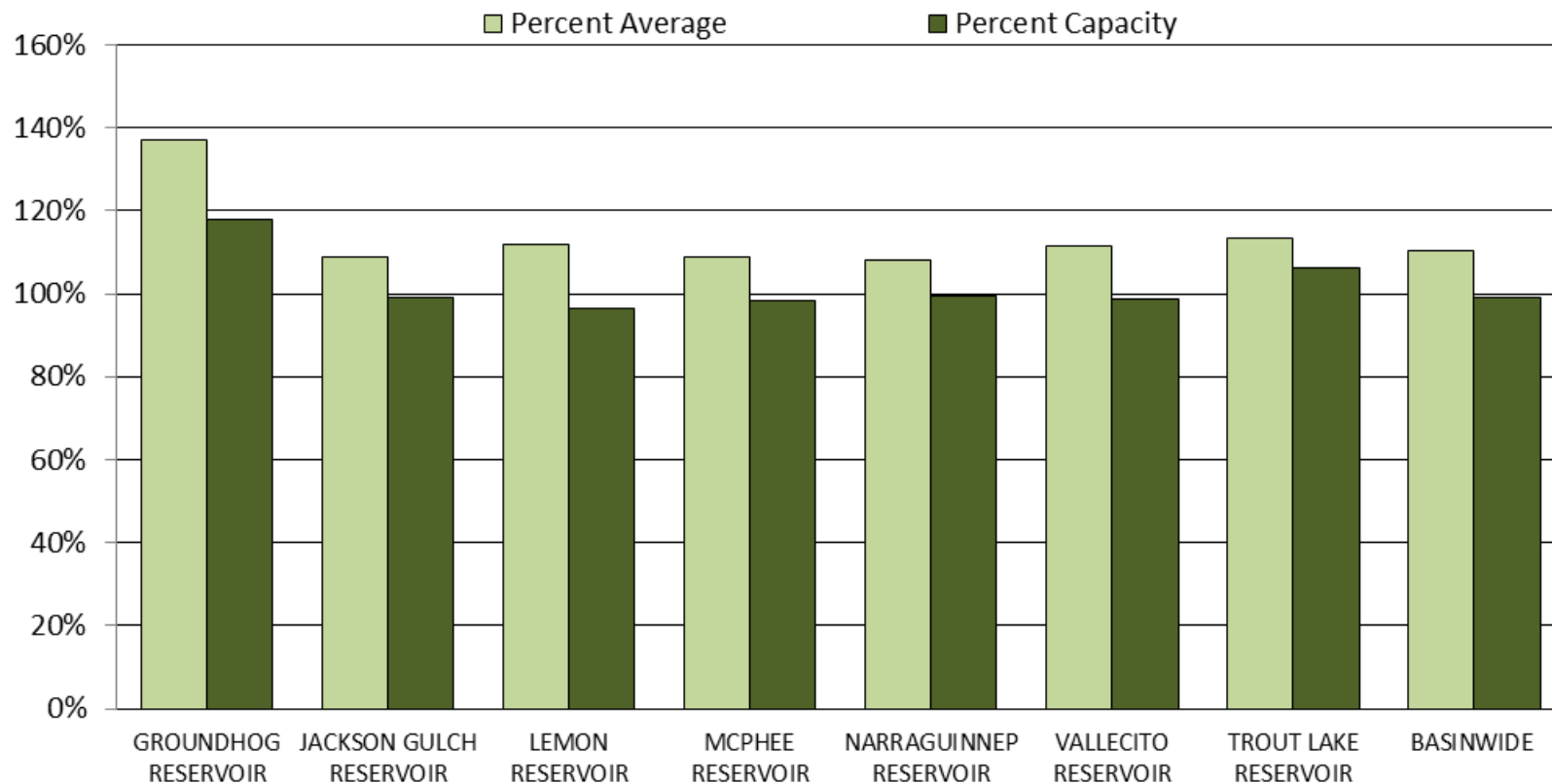


San Miguel, Dolores, Animas, and San Juan River Basins Streamflow Forecast Summary

June 1, 2017

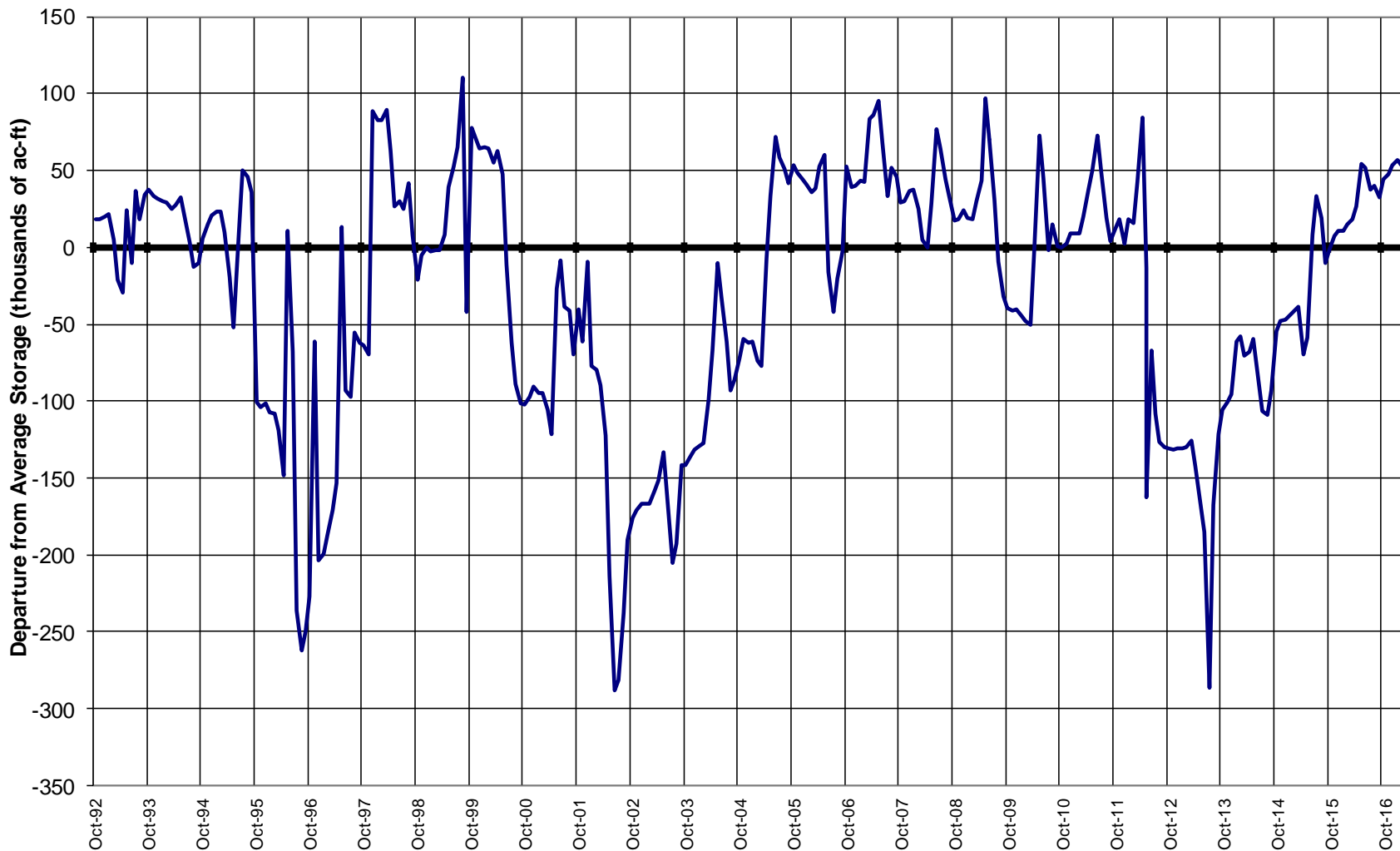


Reservoir Storage



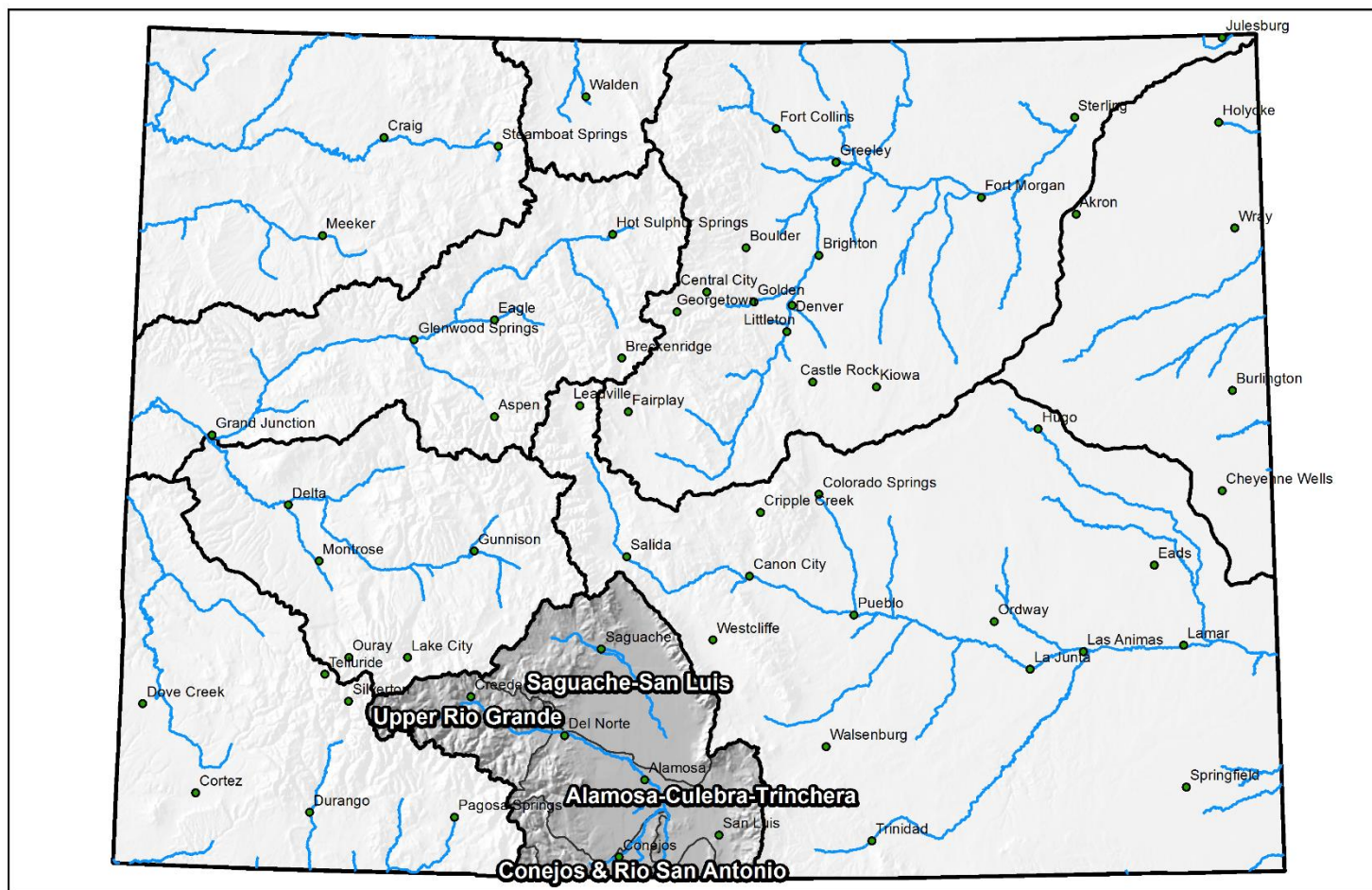
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

Reservoir Storage
Departure from Average



Major Basin Summary

Upper Rio Grande River Basin

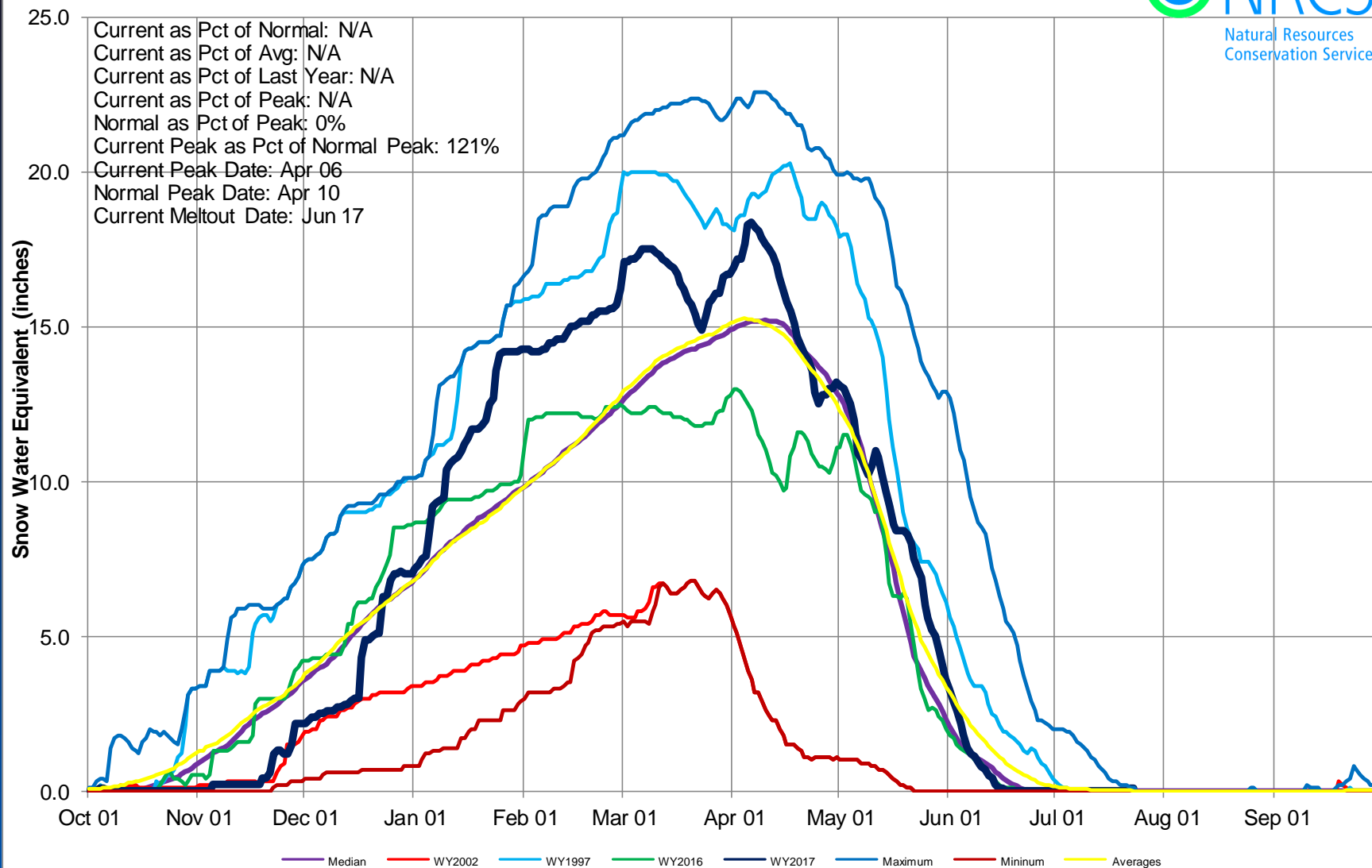


0 25 50 100 150 200 Miles



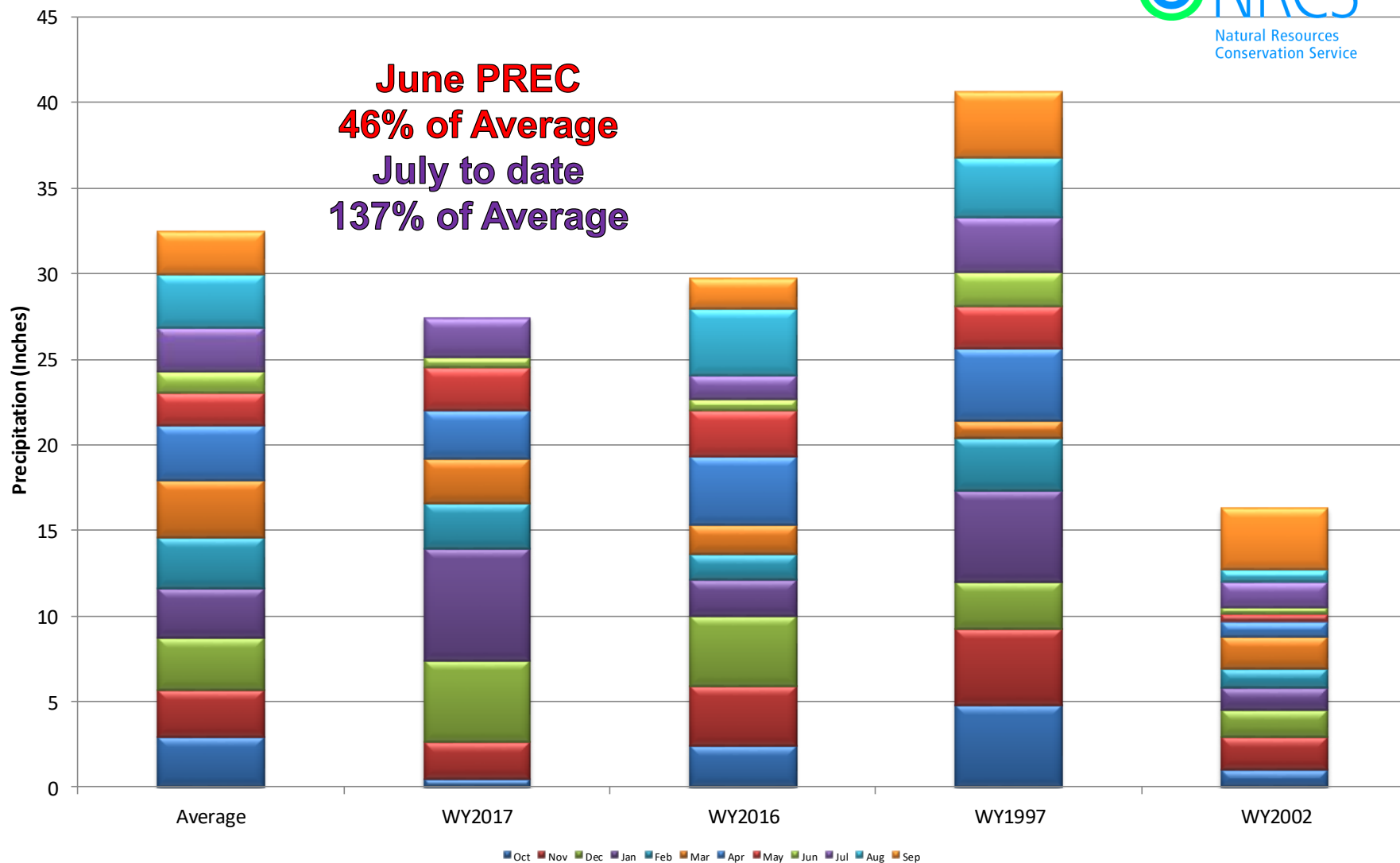
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



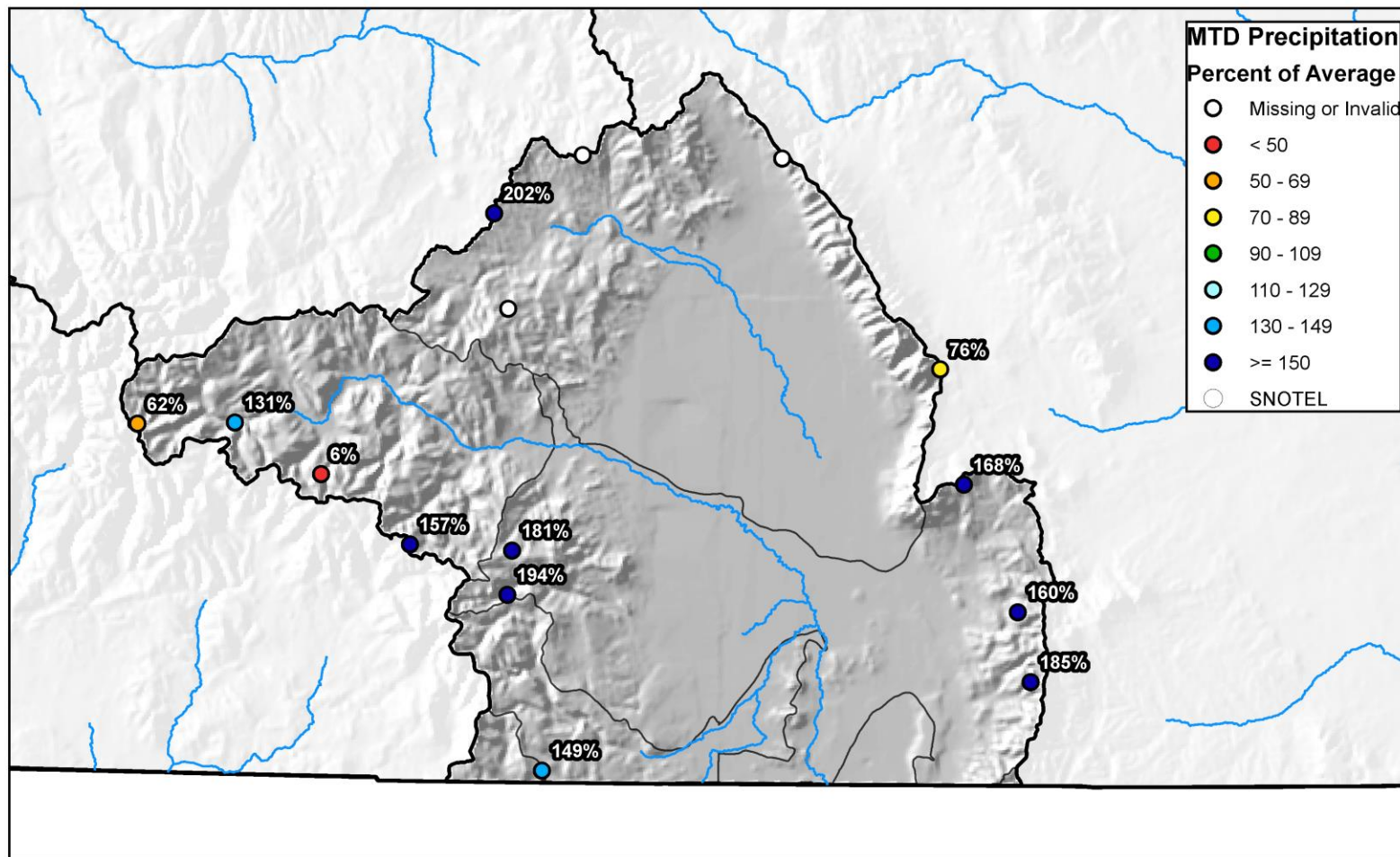
Upper Rio Grande Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



Upper Rio Grande River Basin Month to Date Precipitation Summary

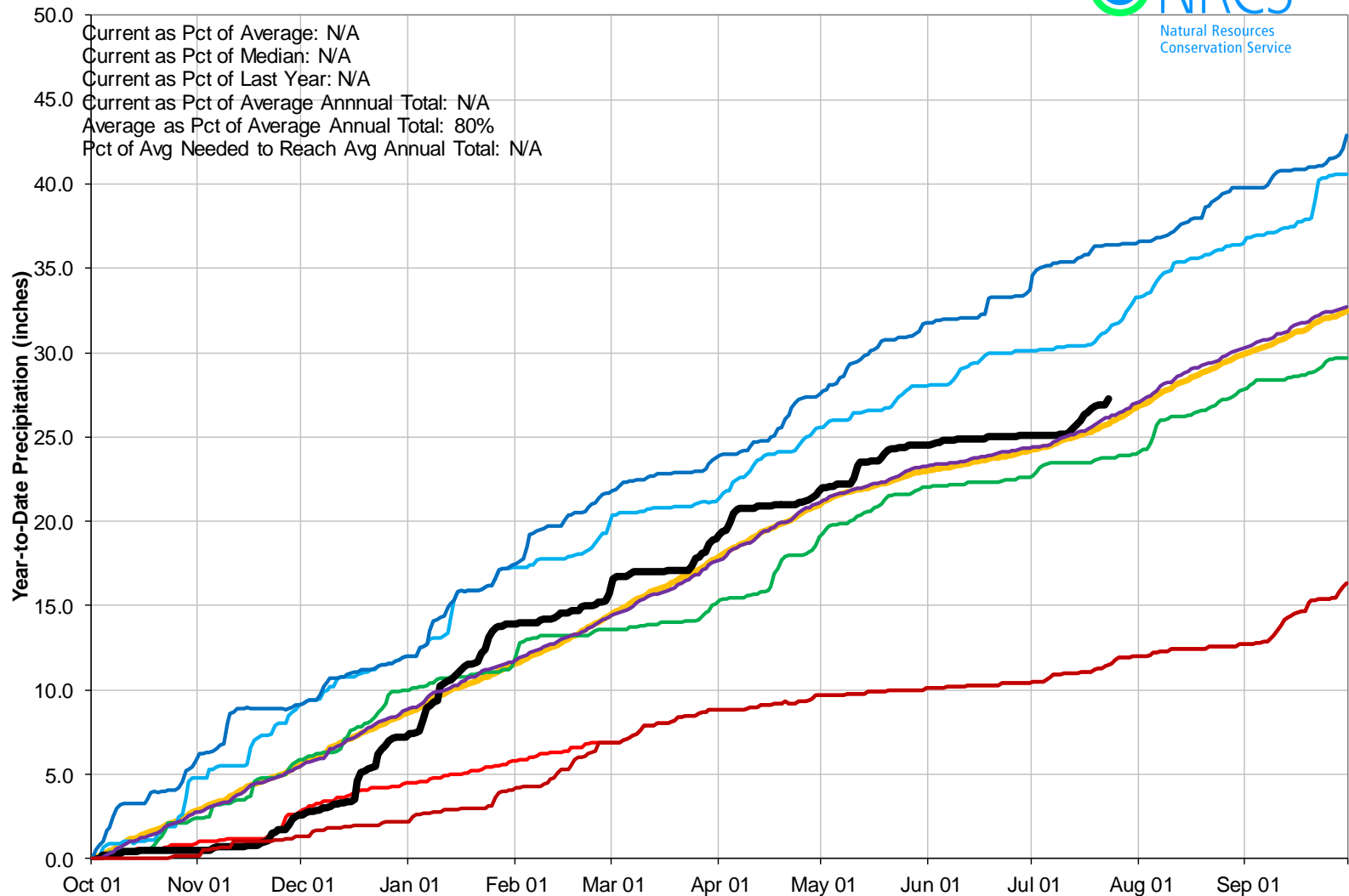
Current as of Jul 24, 2017





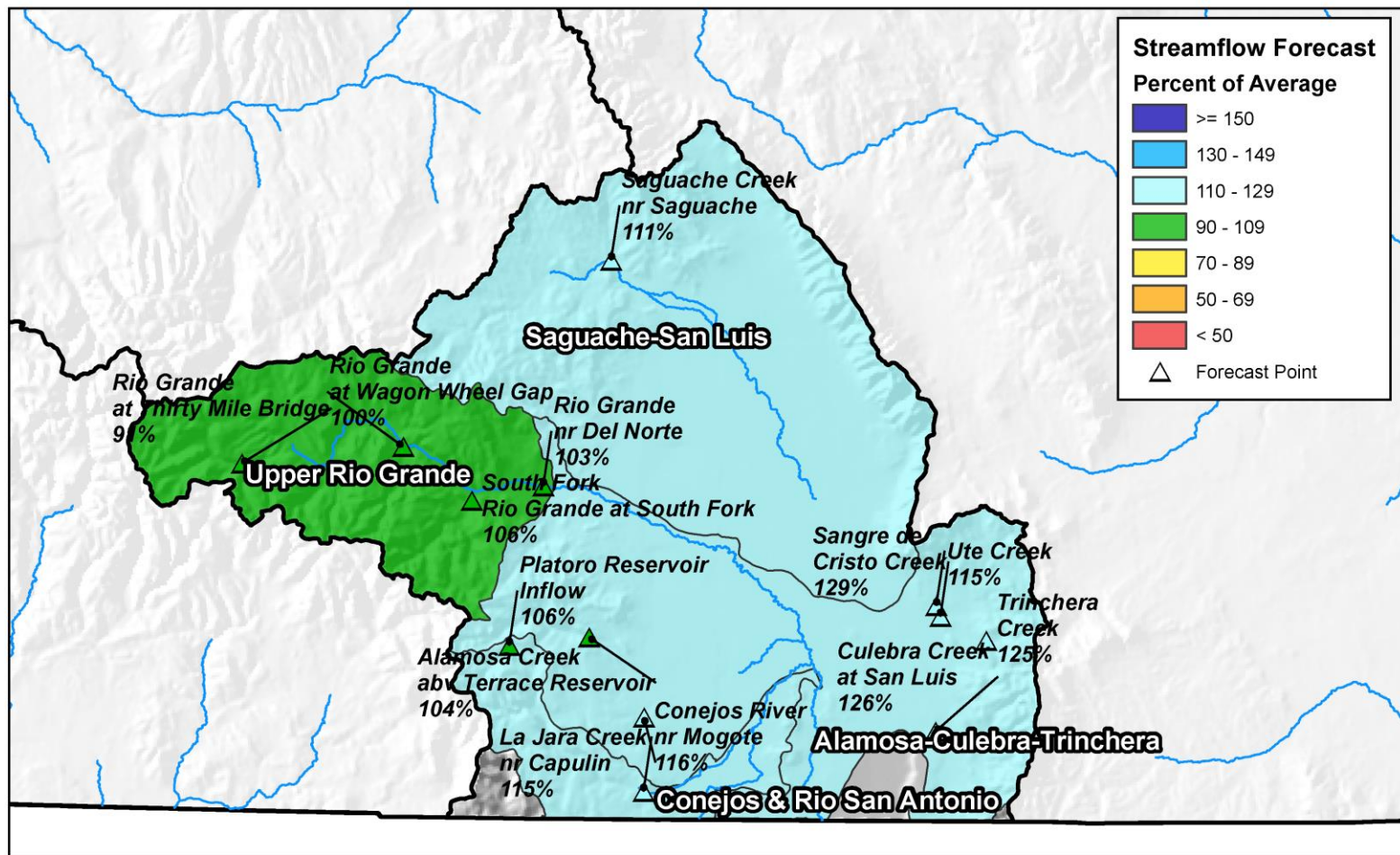
Upper Rio Grande Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



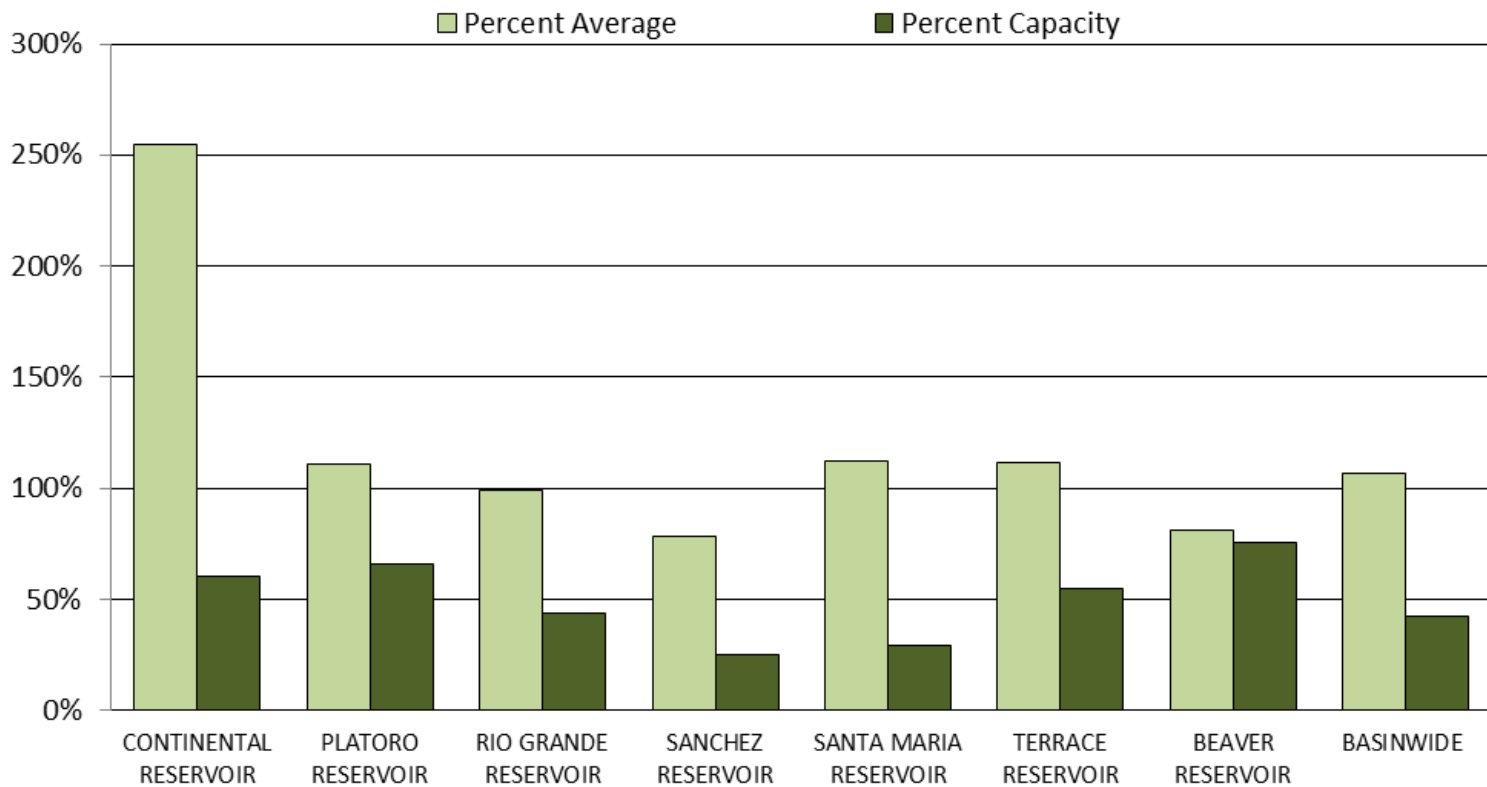
Upper Rio Grande River Basin Streamflow Forecast Summary

June 1, 2017

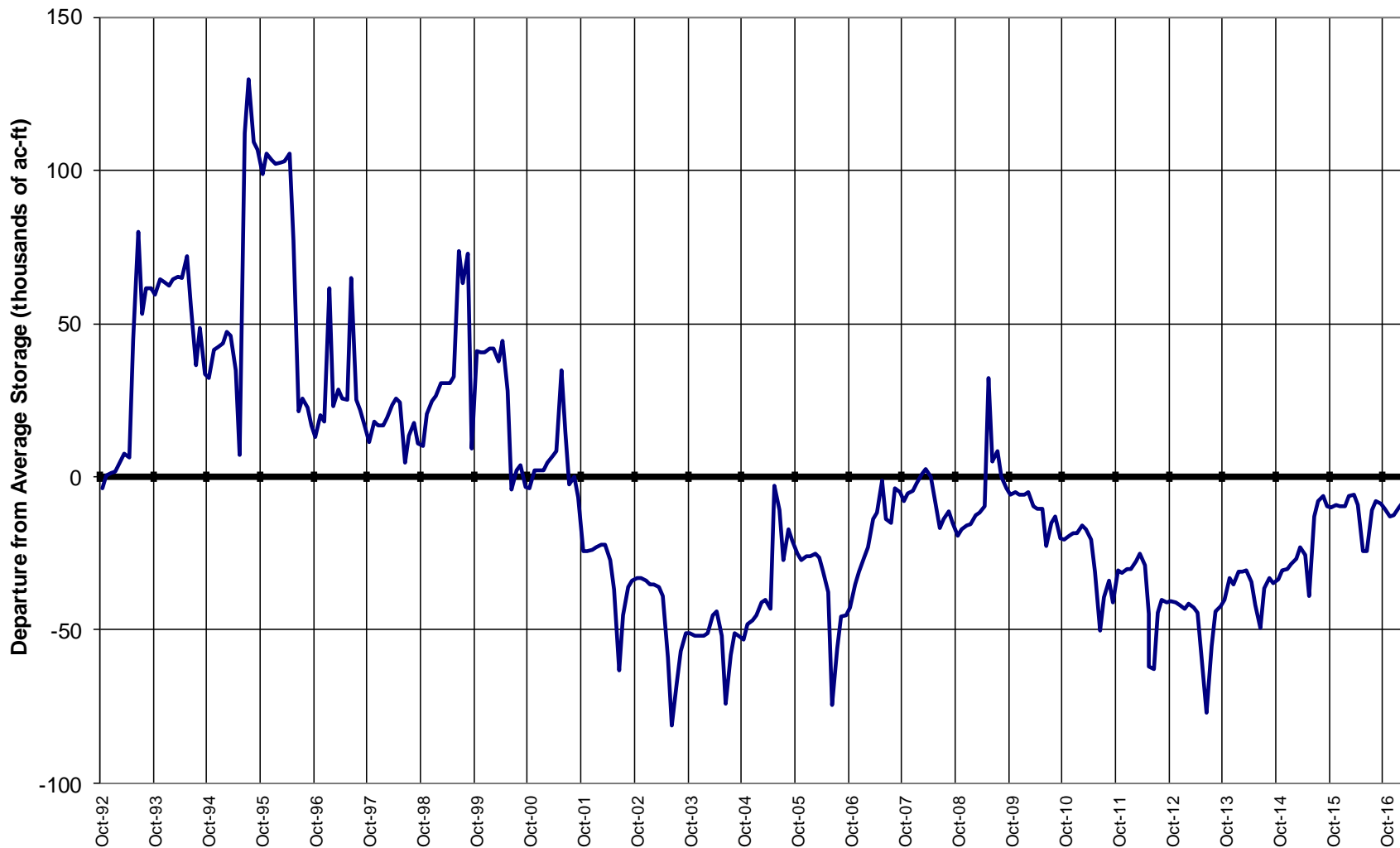


0 10 20 40 60 80 Miles

Reservoir Storage

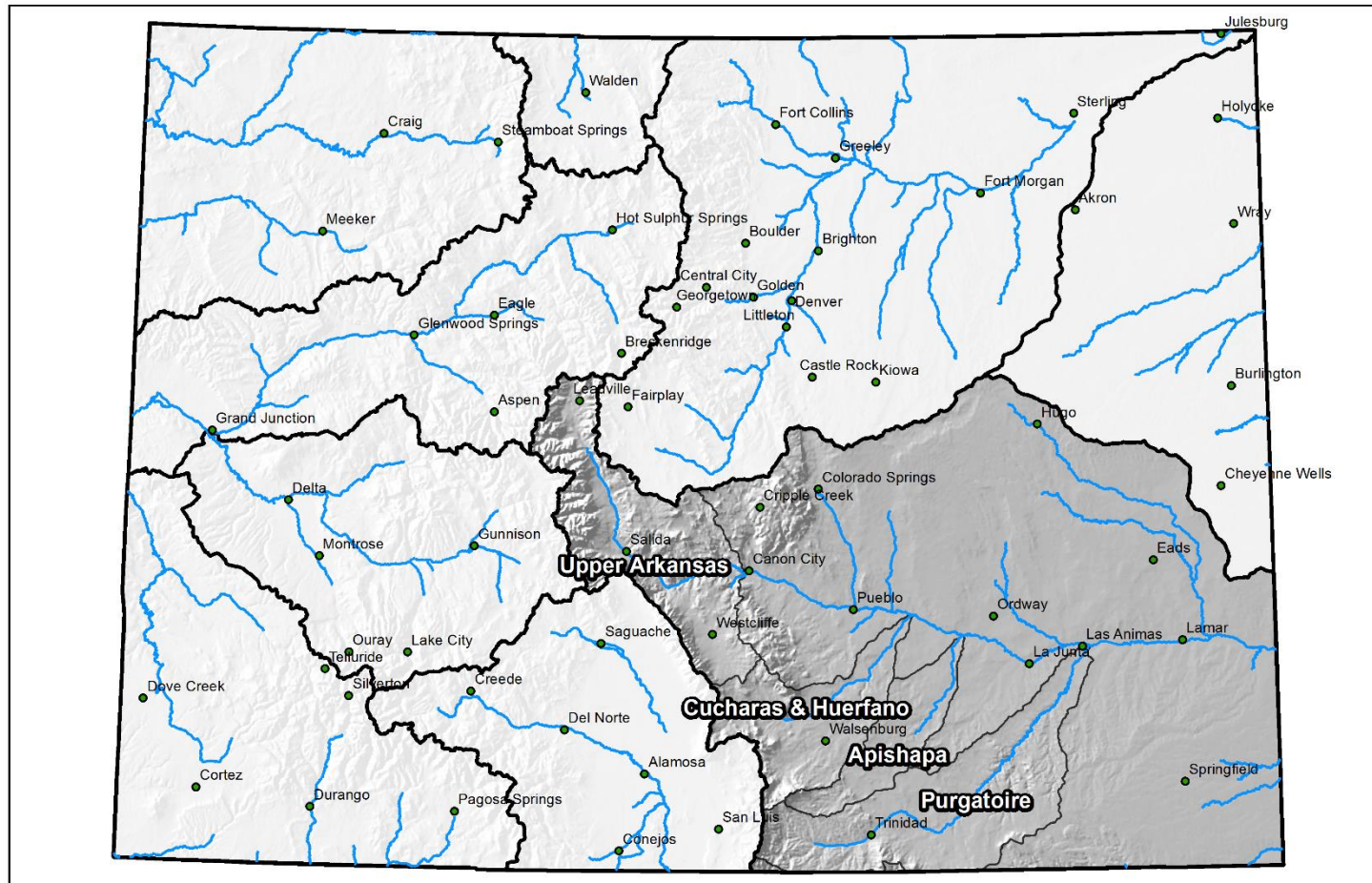


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



Major Basin Summary

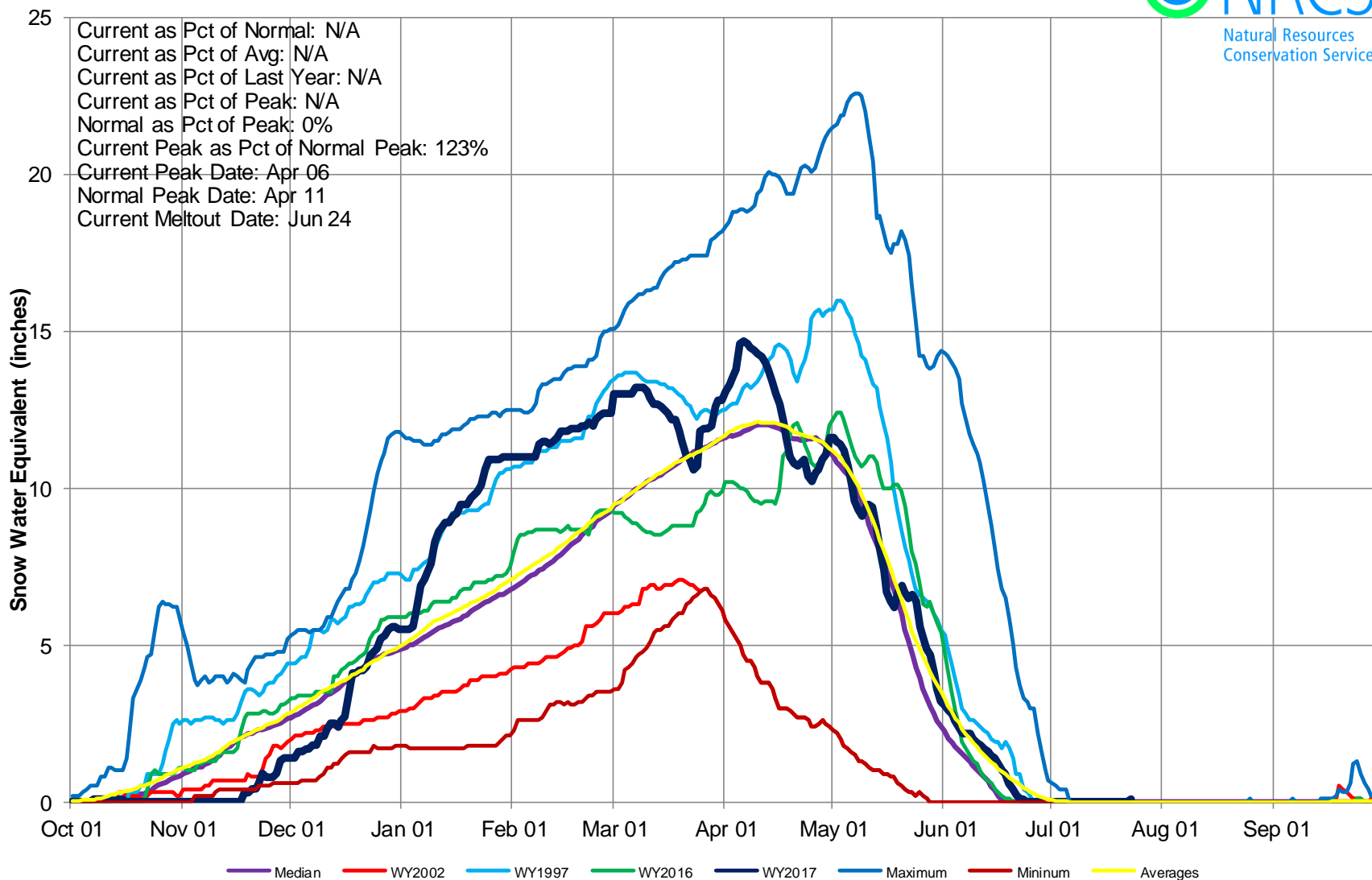
Arkansas River Basin



0 25 50 100 150 200 Miles

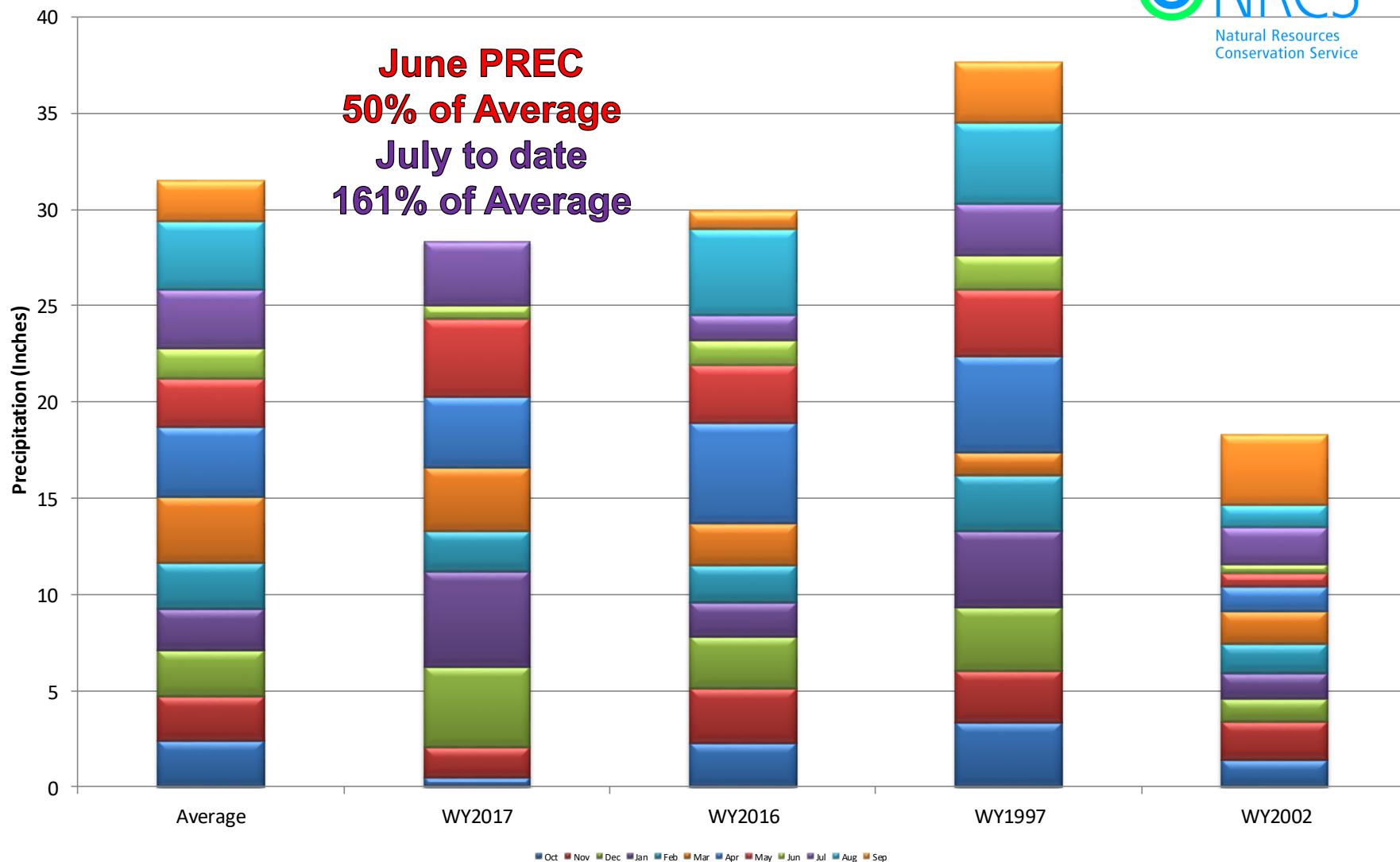
Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



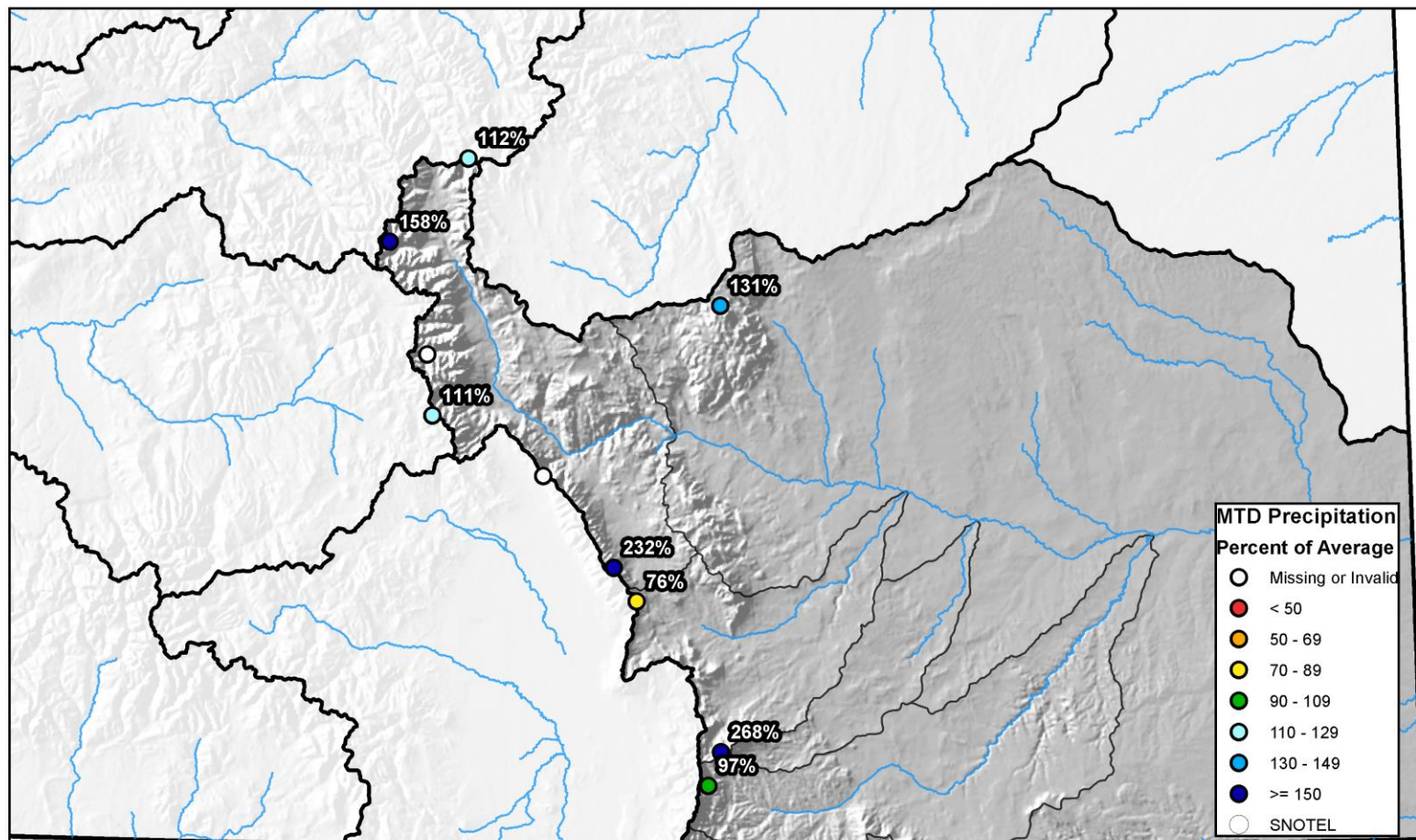
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



Arkansas River Basin Month to Date Precipitation Summary

Current as of Jul 24, 2017

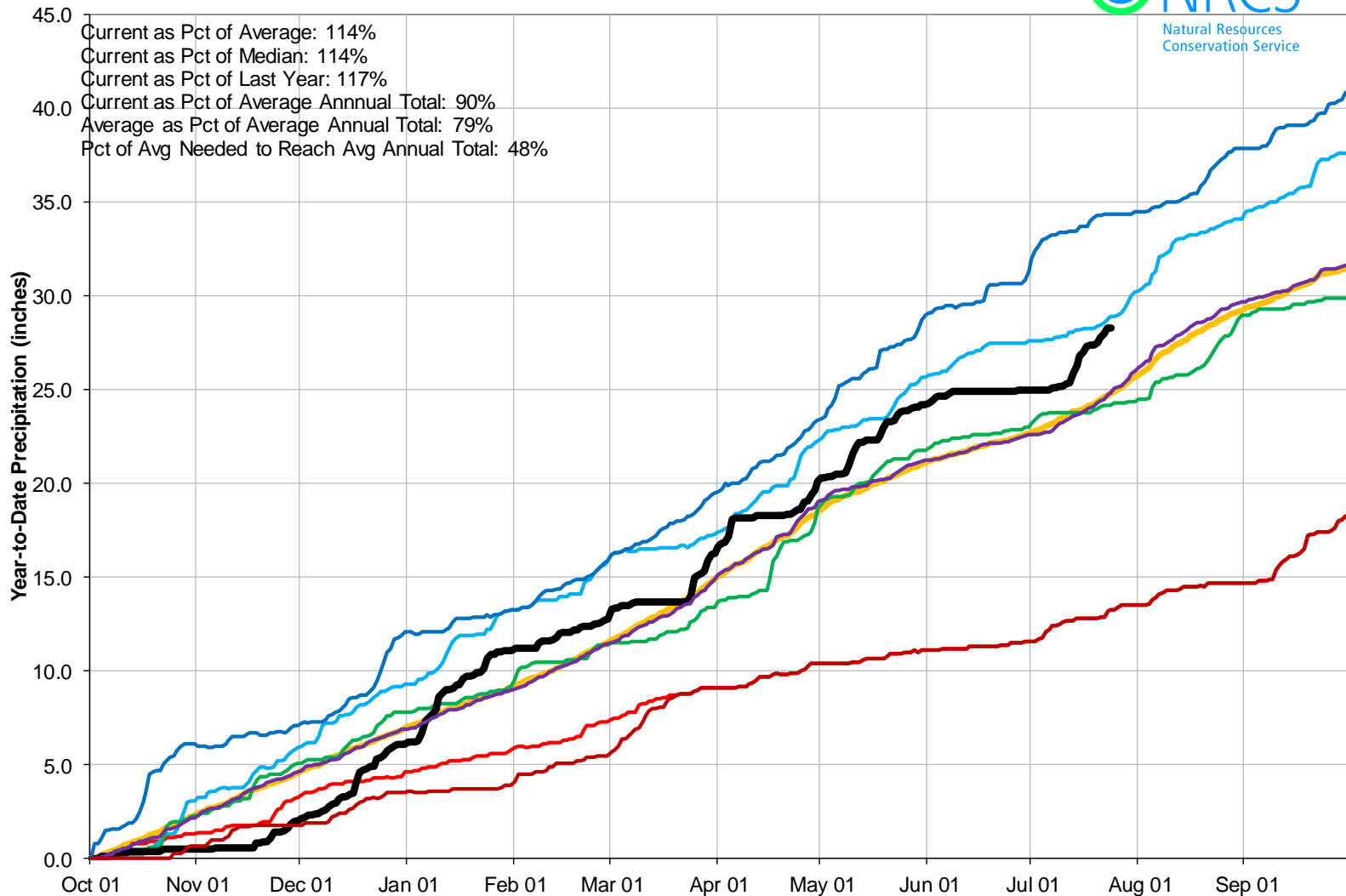


0 10 20 40 60 80 Miles



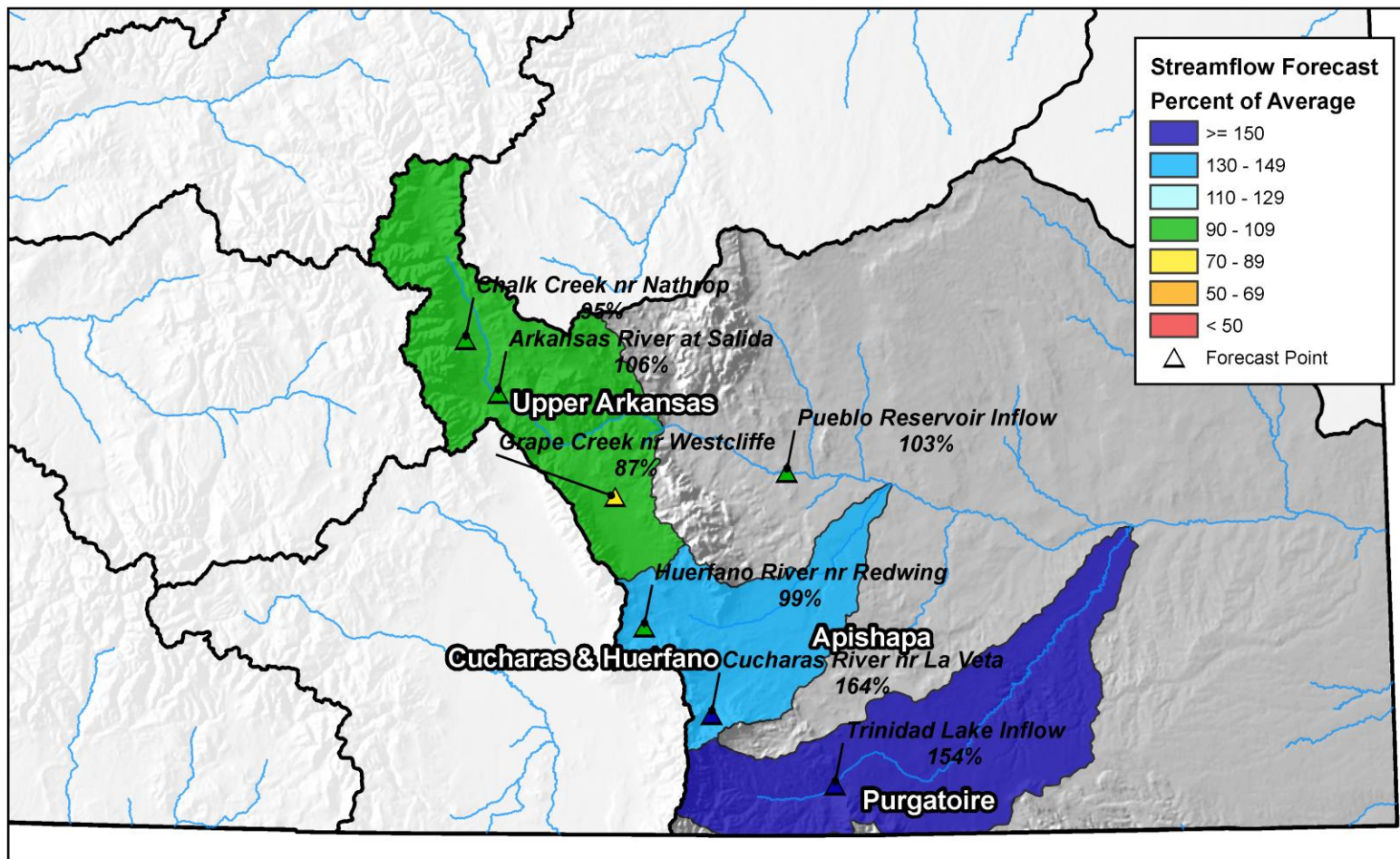
Arkansas River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017

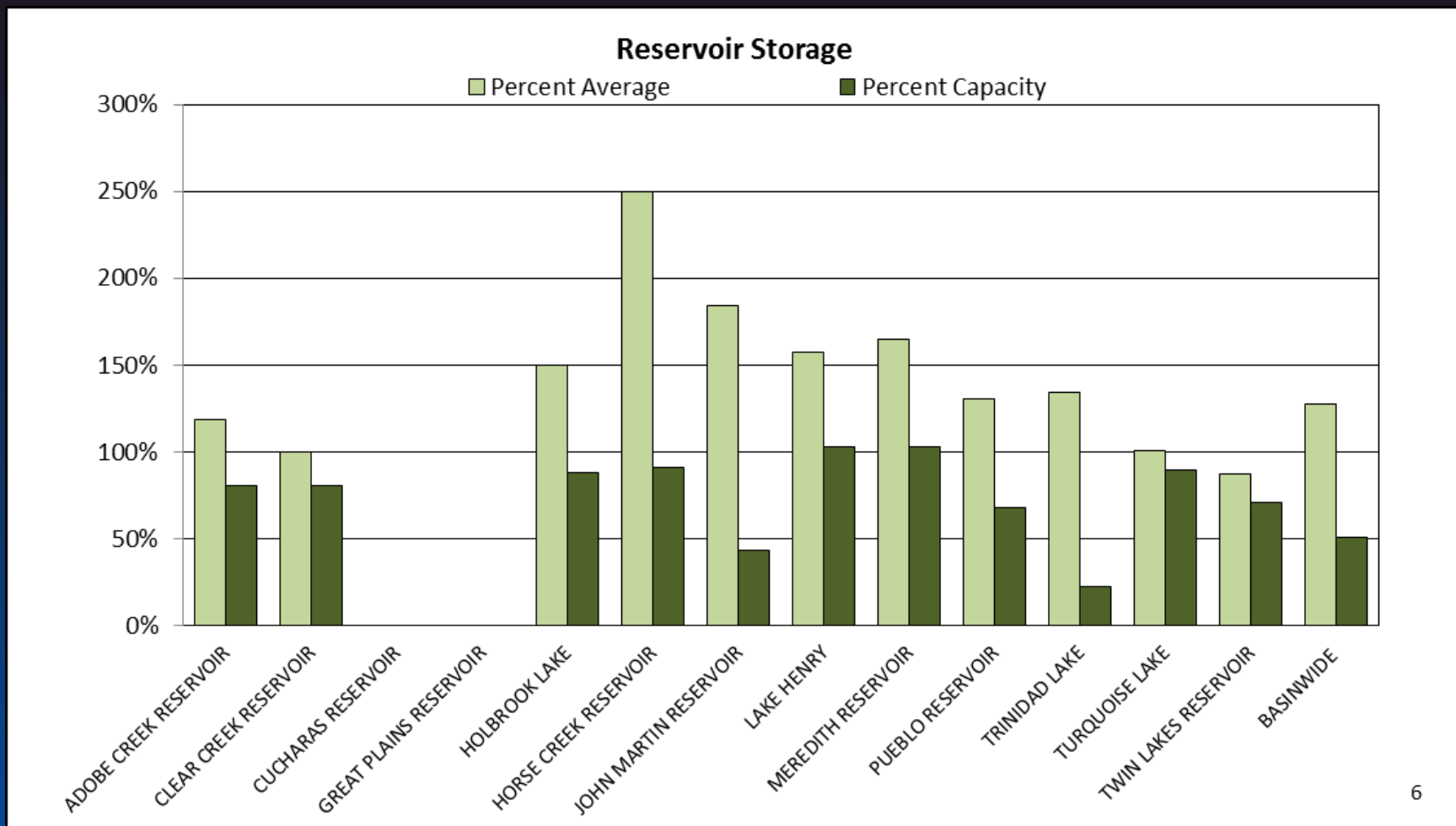


Arkansas River Basin Streamflow Forecast Summary

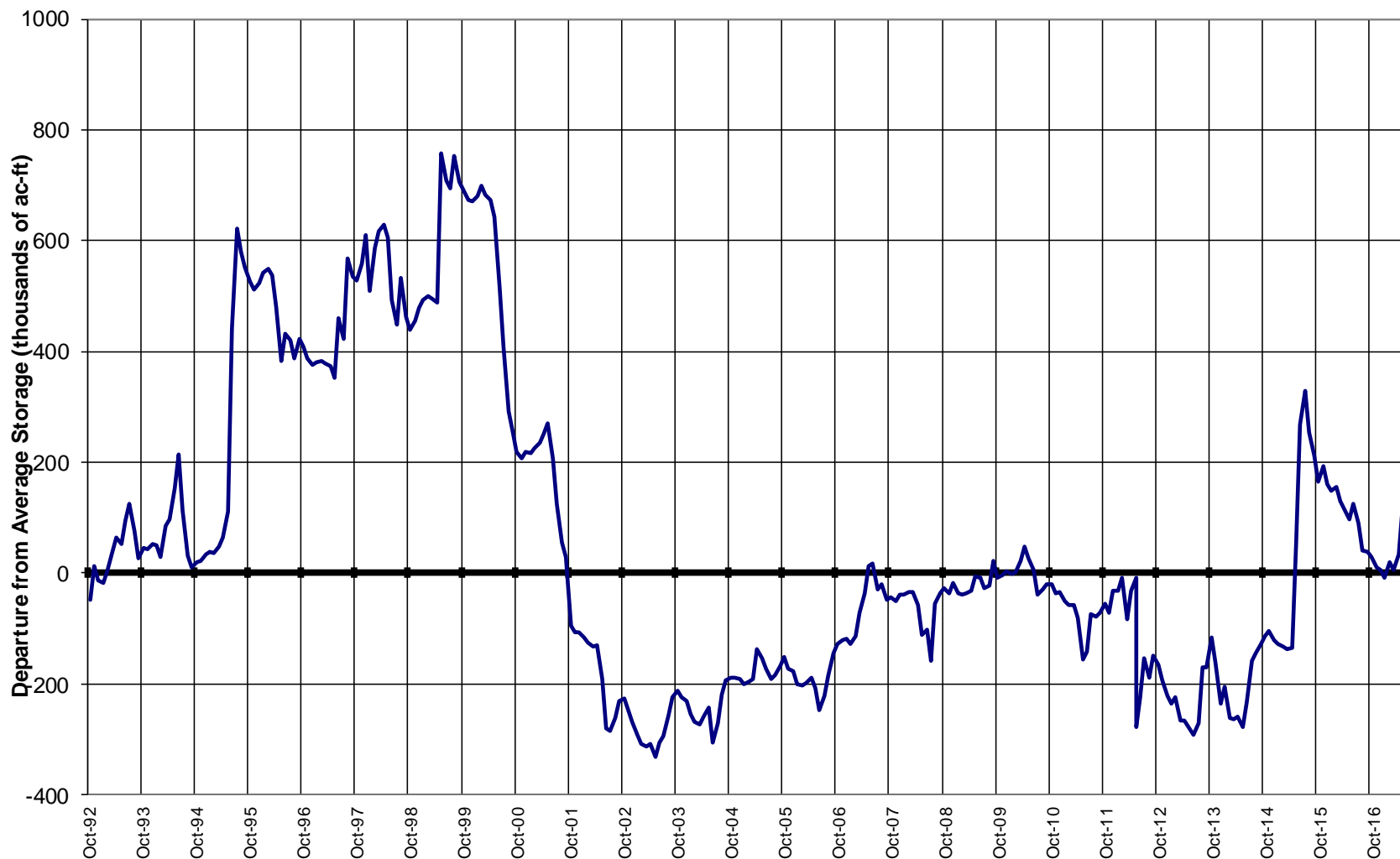
June 1, 2017



0 10 20 40 60 80 Miles

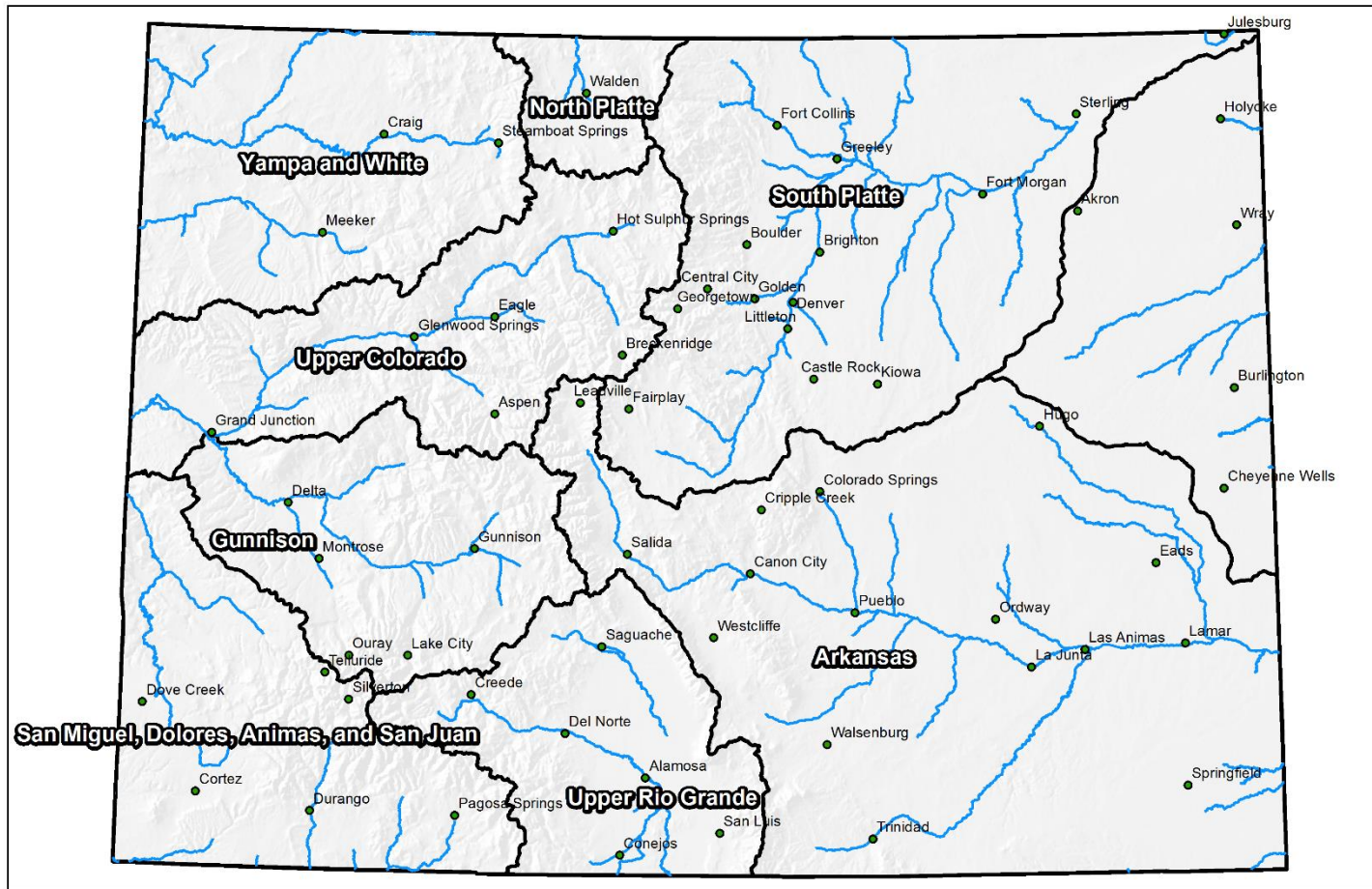


ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



Colorado Statewide Summary

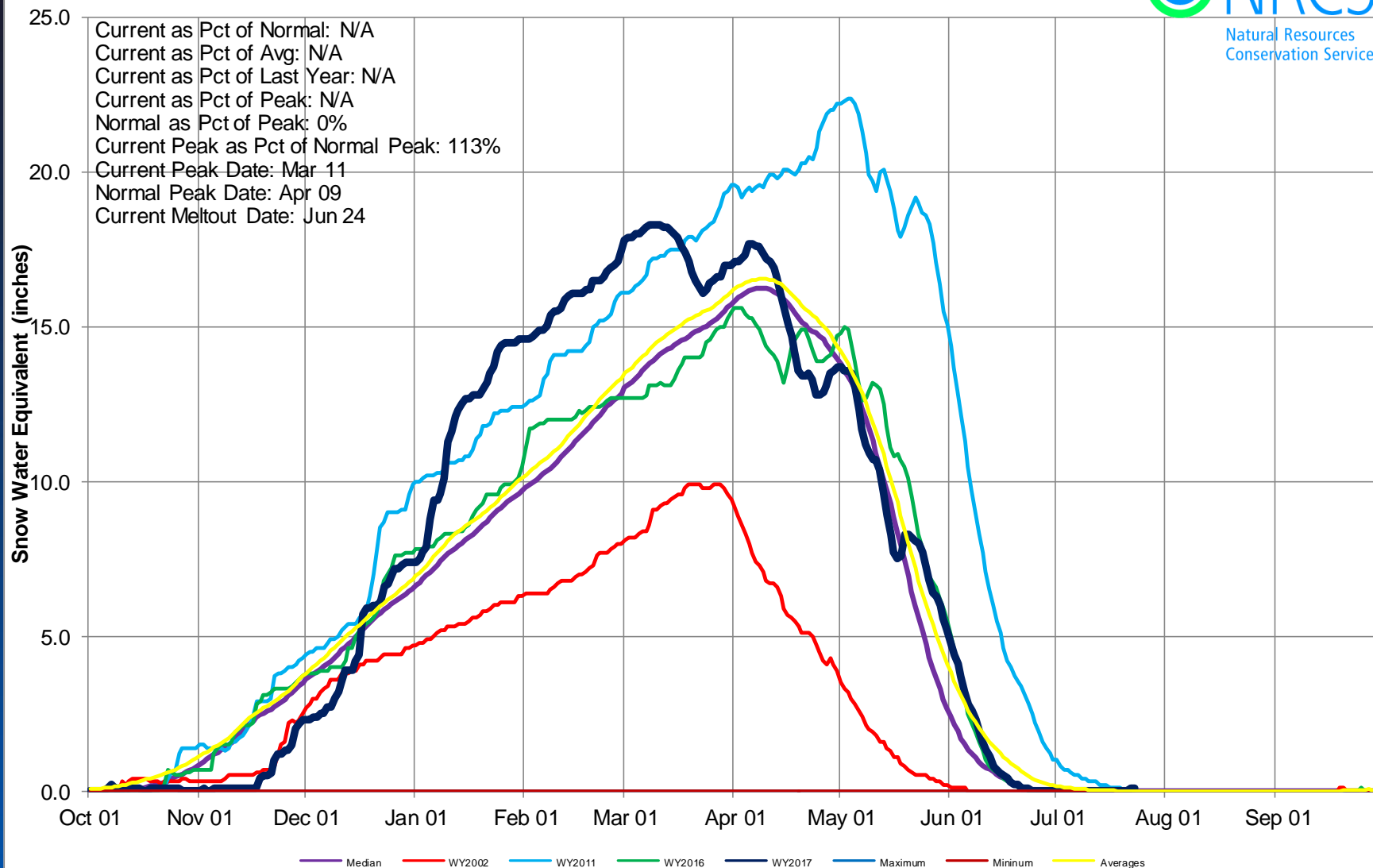
Colorado Major Basins



0 25 50 100 150 200 Miles

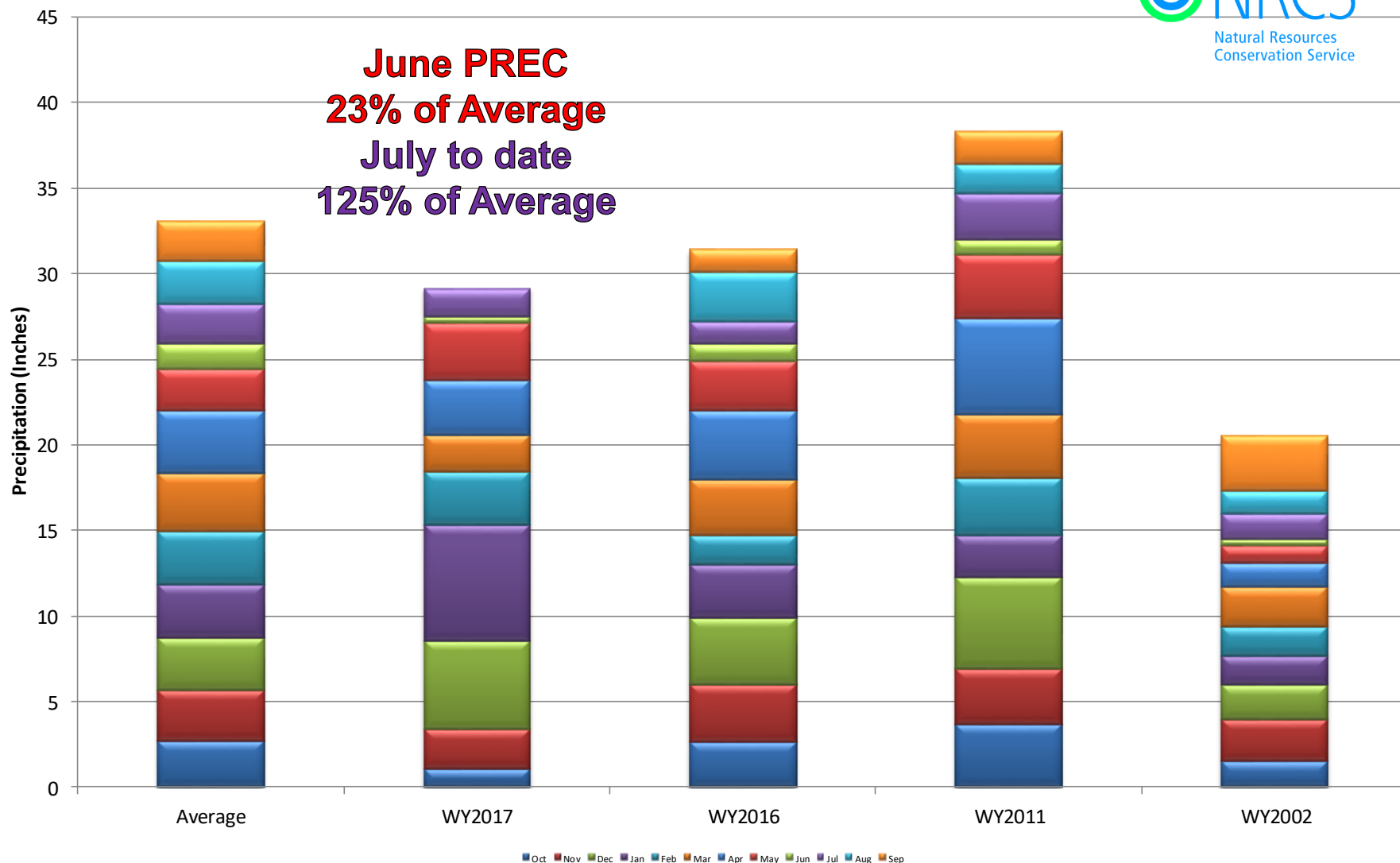
Colorado Statewide High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



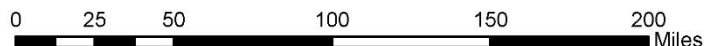
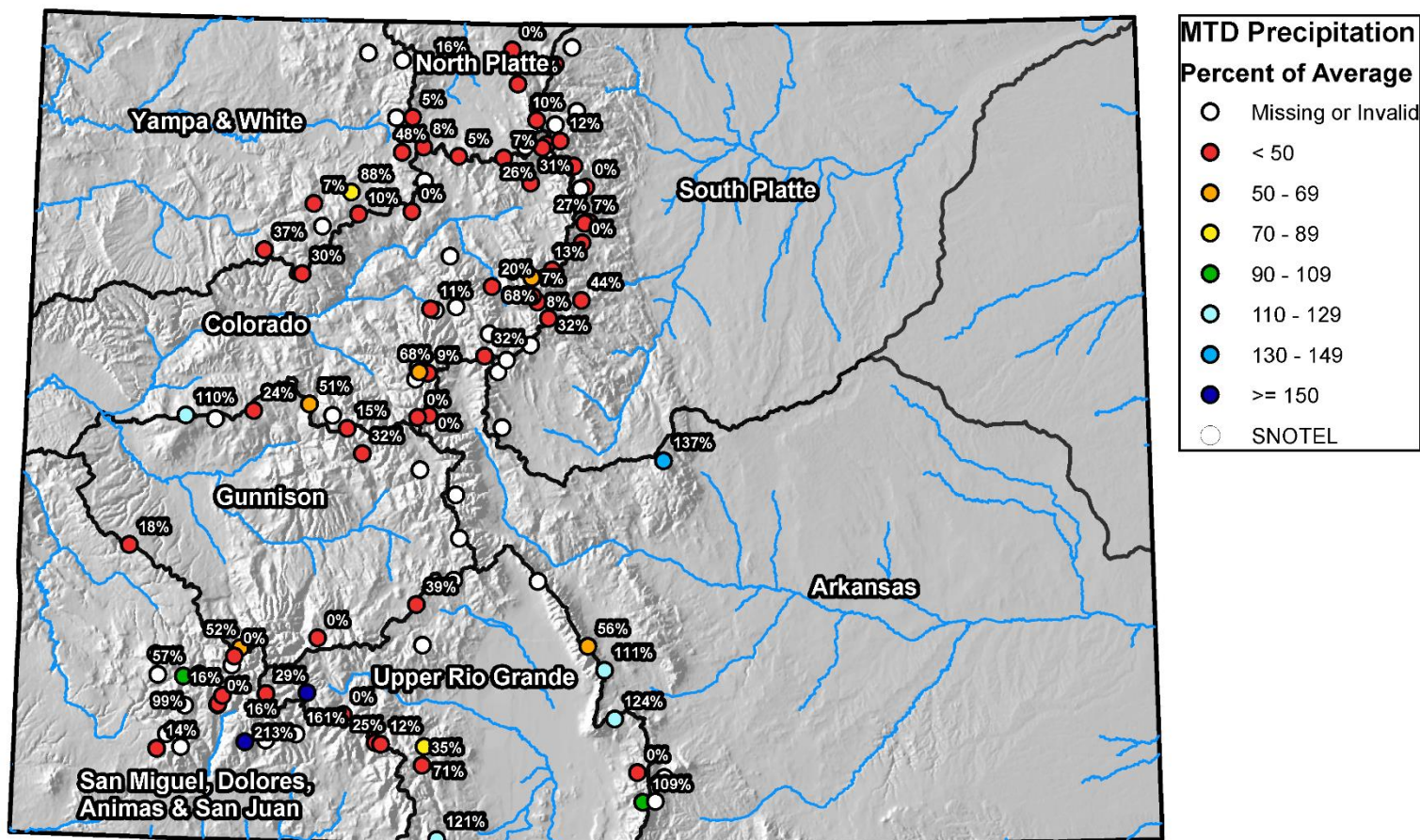
Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017



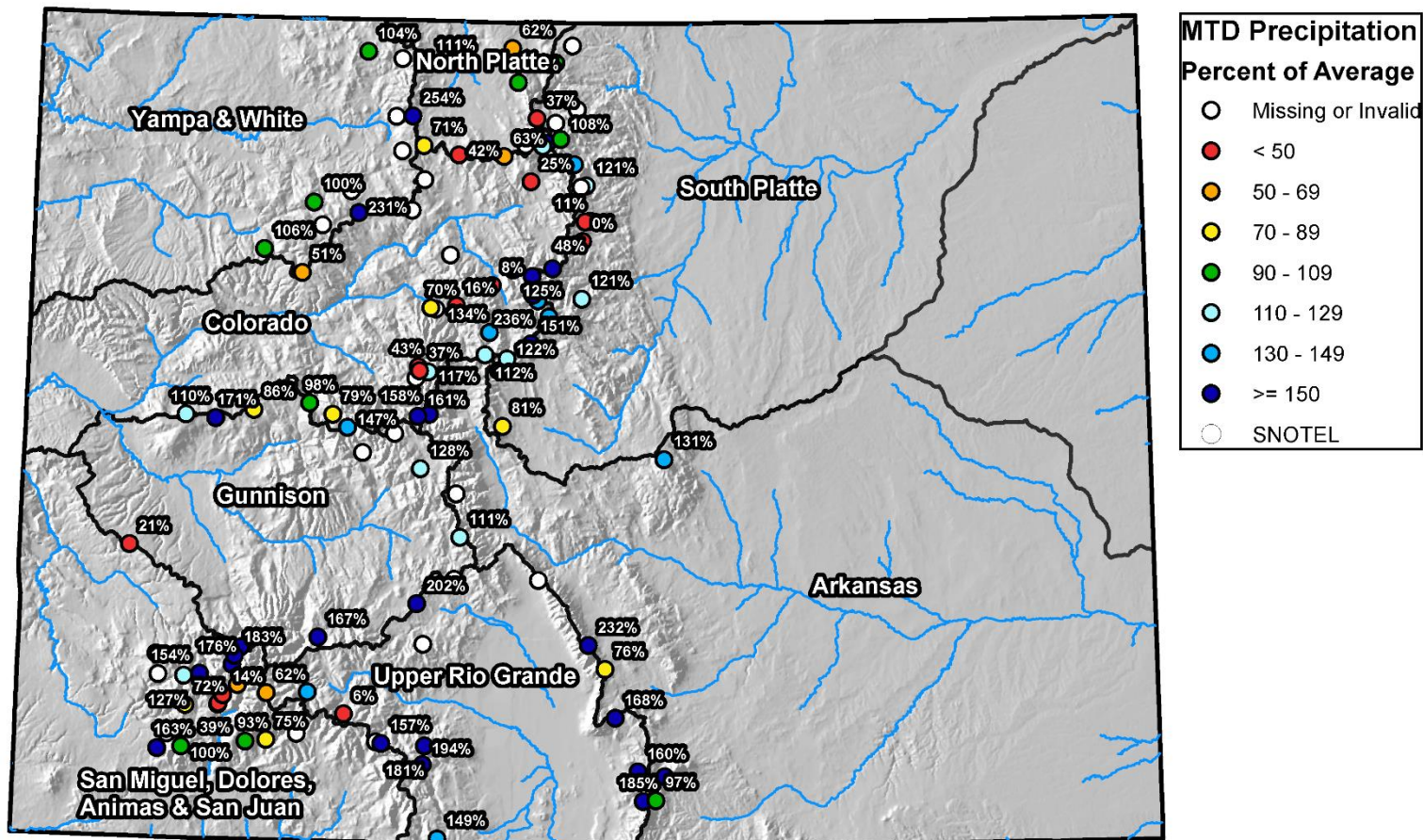
Colorado SNOTEL Month-to-Date Precipitation

Current as of Jun 21, 2017



Colorado SNOTEL Month-to-Date Precipitation

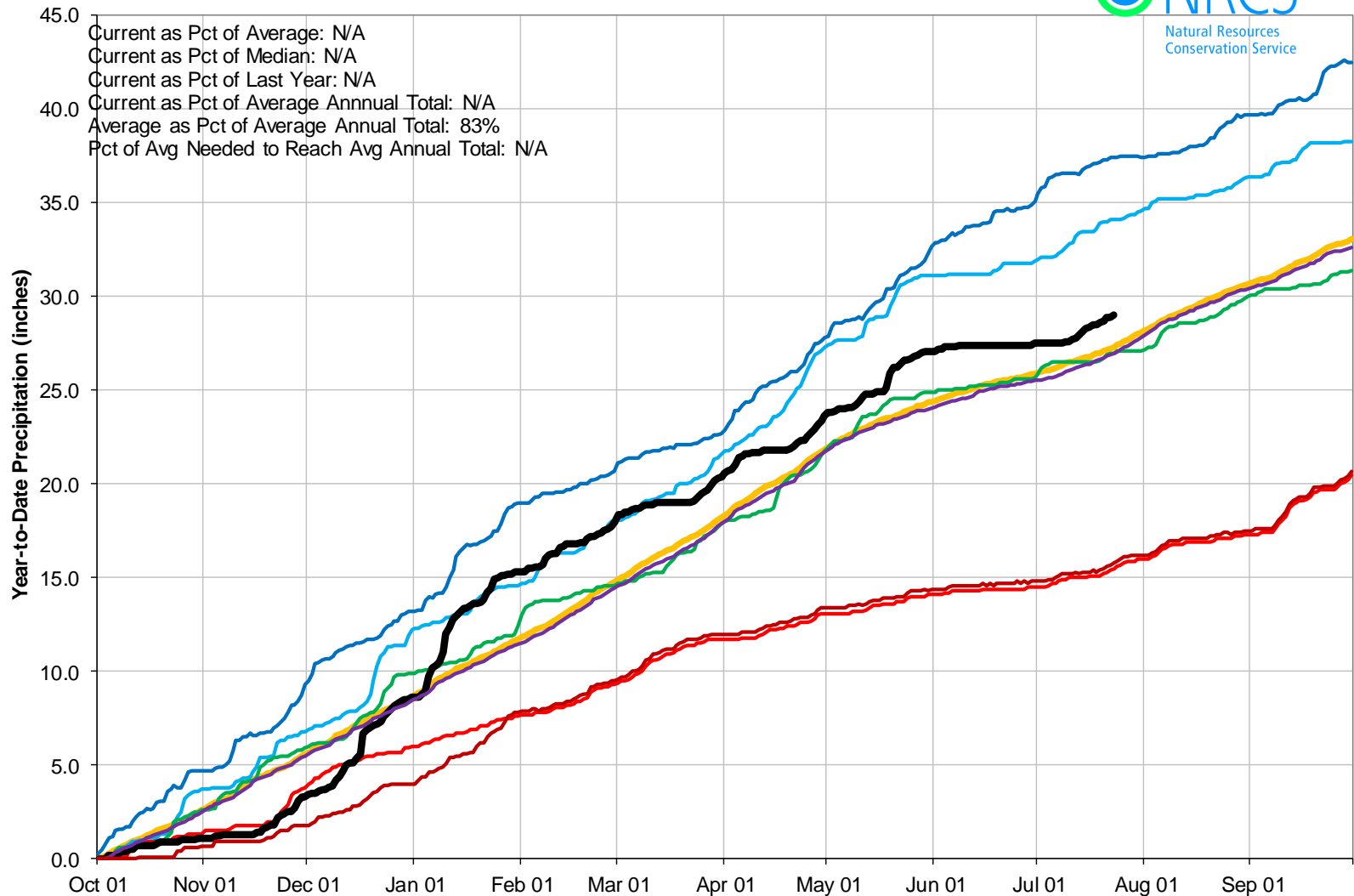
Current as of Jul 24, 2017





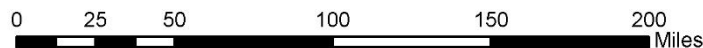
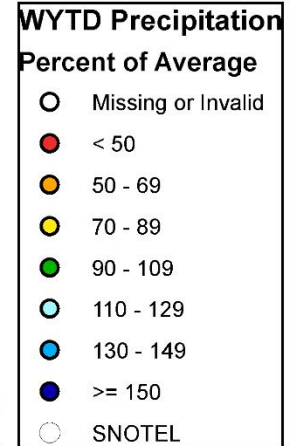
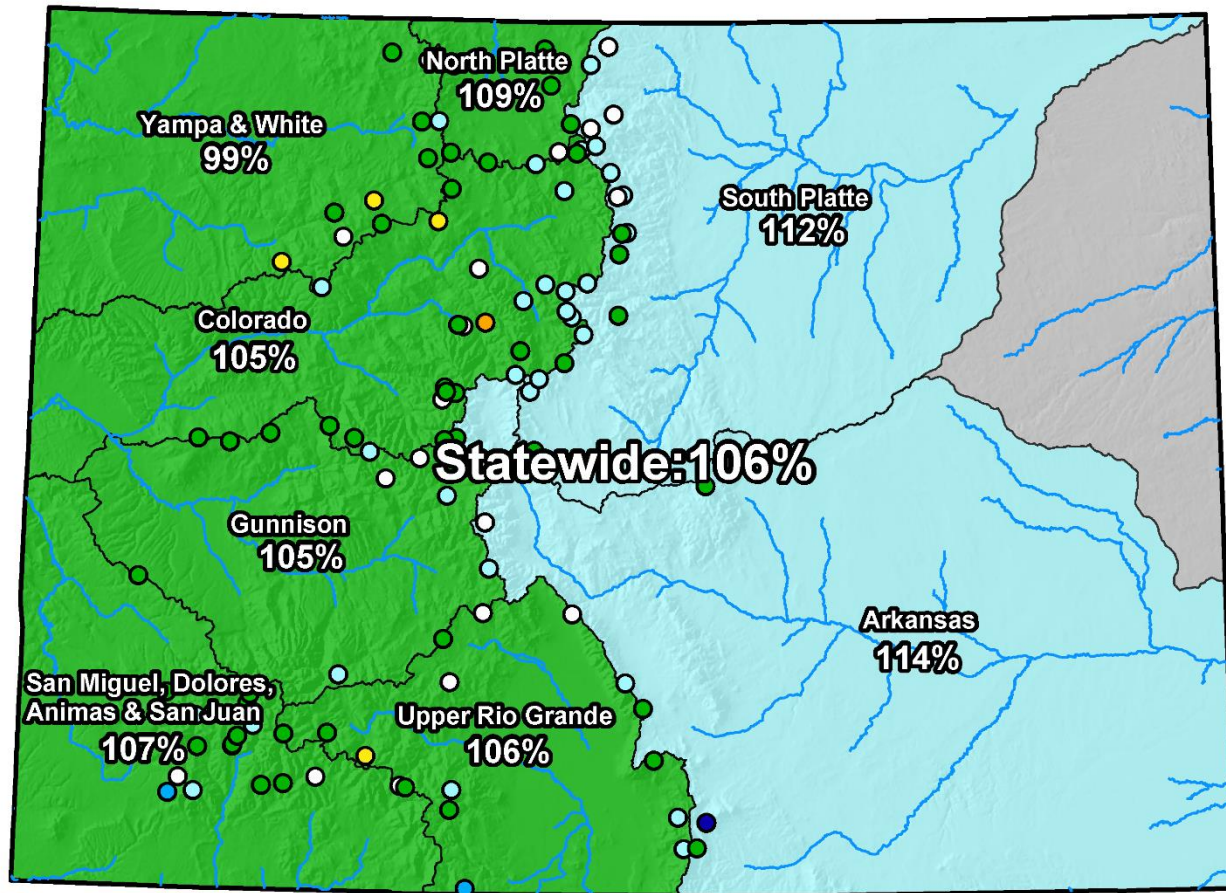
Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 24, 2017

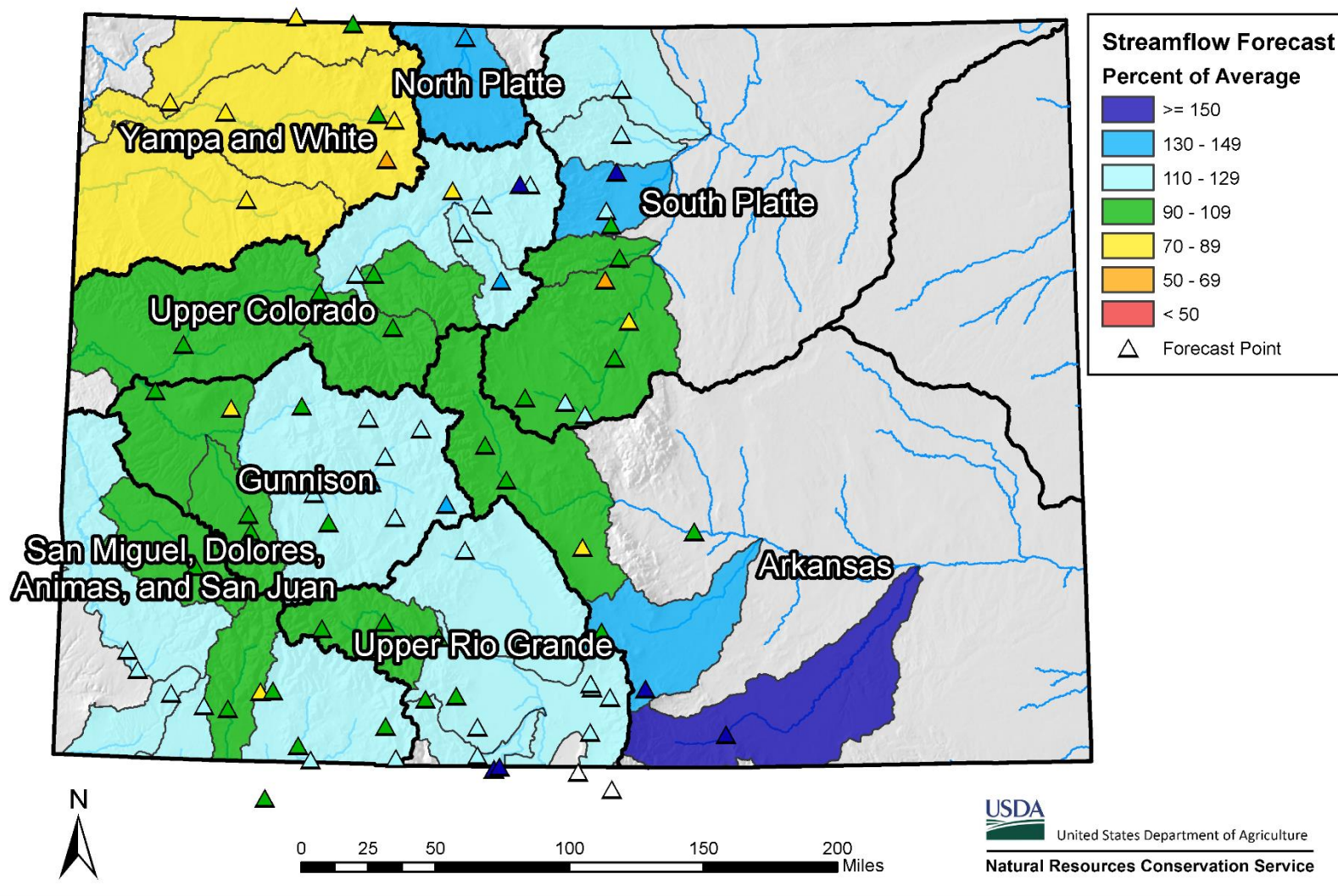


Colorado SNOTEL Water Year to Date Precipitation

Current as of Jul 24, 2017

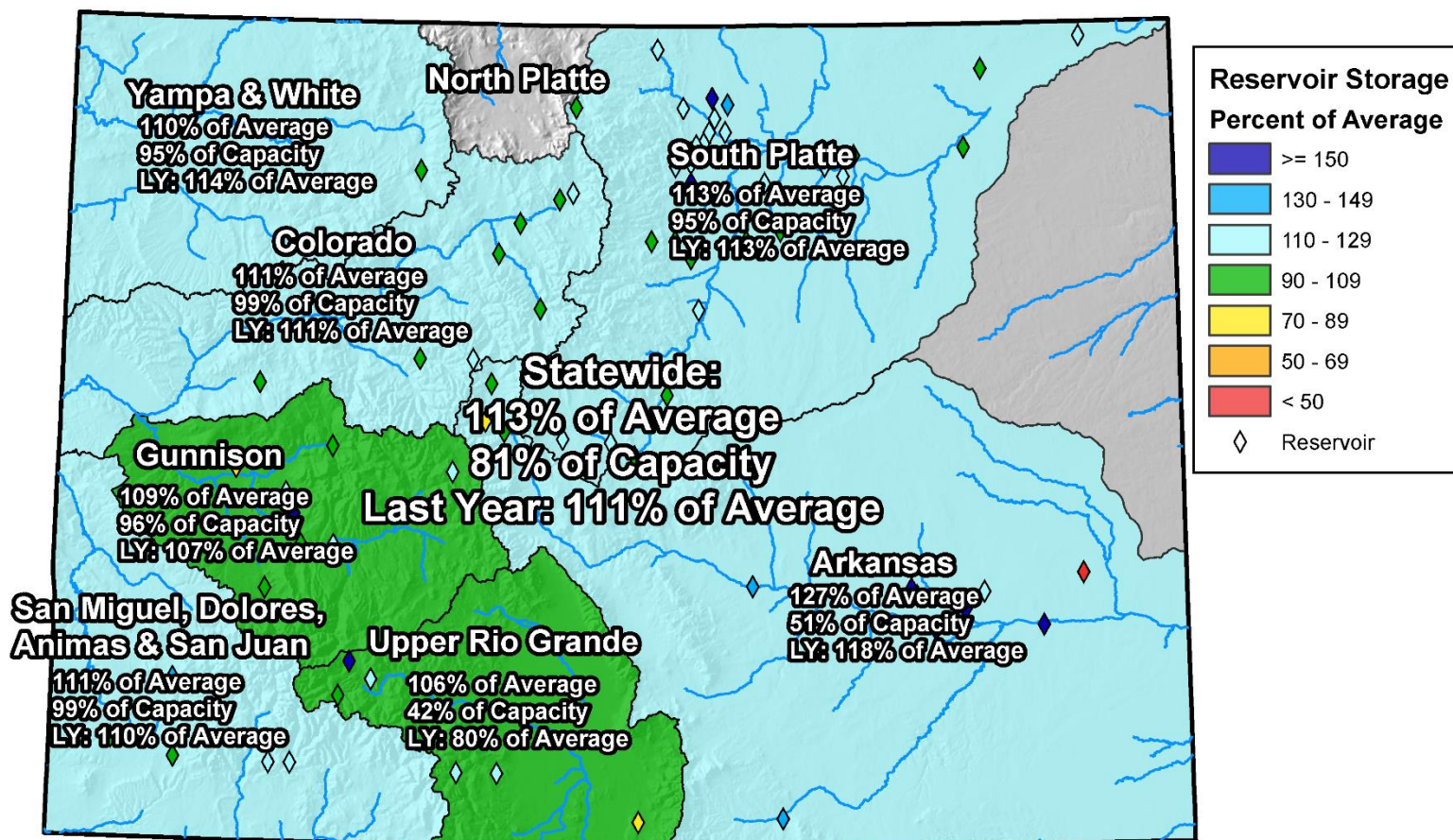


Colorado Streamflow Forecasts Summary June 1, 2017



Colorado Monthly Reservoir Storage Summary

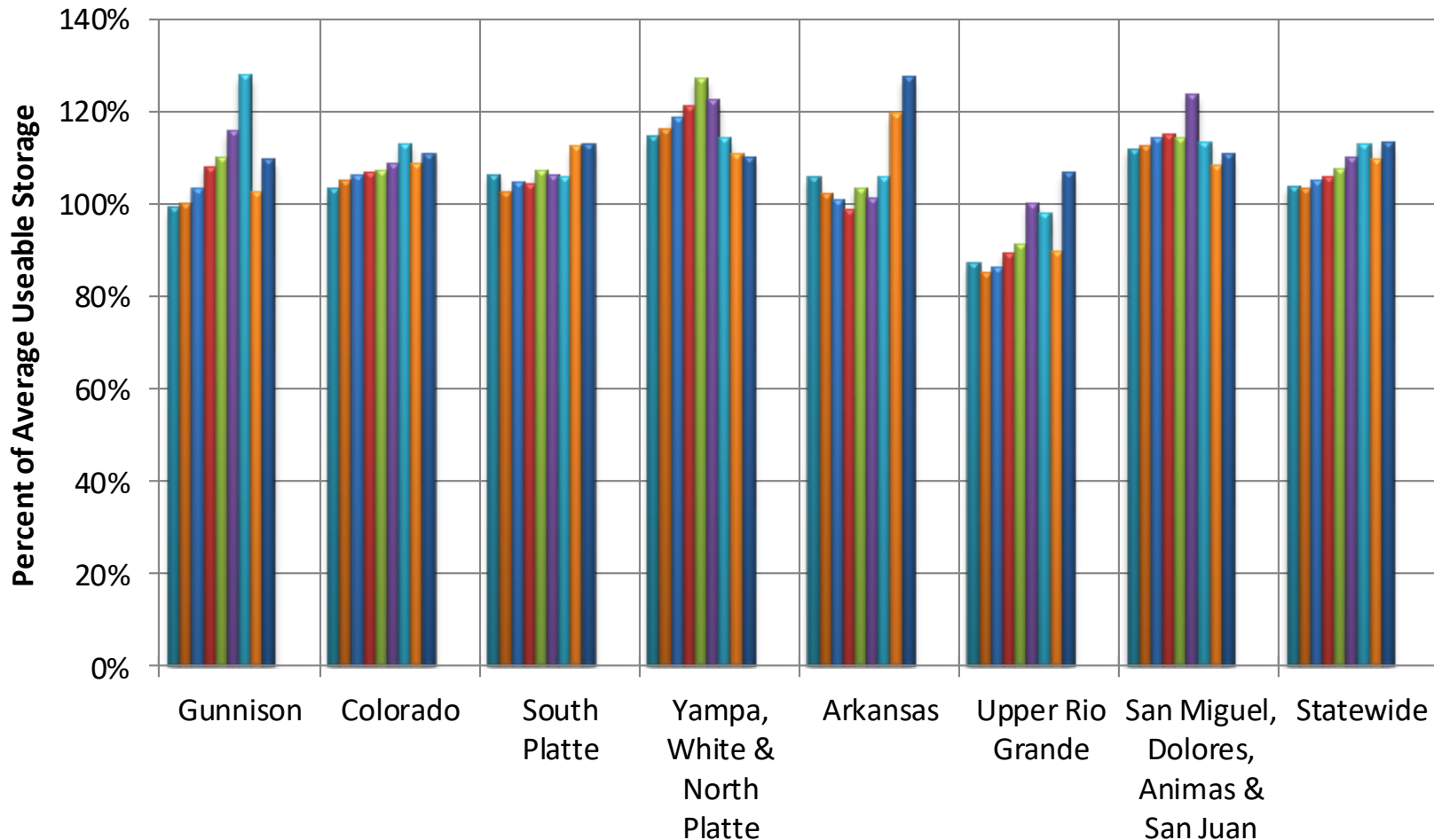
End of June 2017



0 25 50 100 150 200 Miles

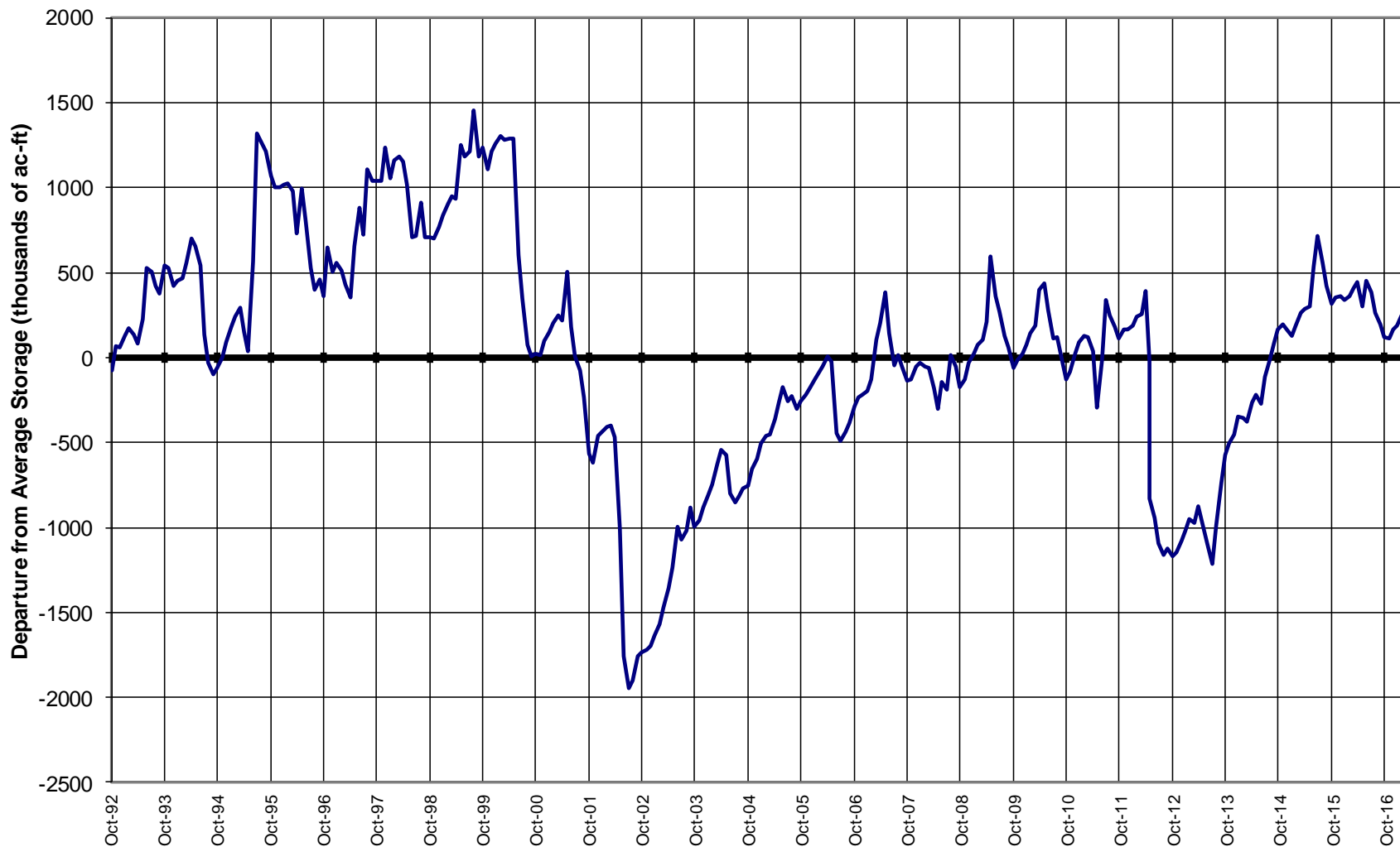
Colorado Reservoir Storage

■ Oct-16 ■ Nov-16 ■ Dec-16 ■ Jan-17 ■ Feb-17 ■ Mar-17
 ■ Apr-17 ■ May-17 ■ Jun-17 ■ Jul-17 ■ Aug-17 ■ Sep-17





COLORADO STATEWIDE Reservoir Storage Departure from Average



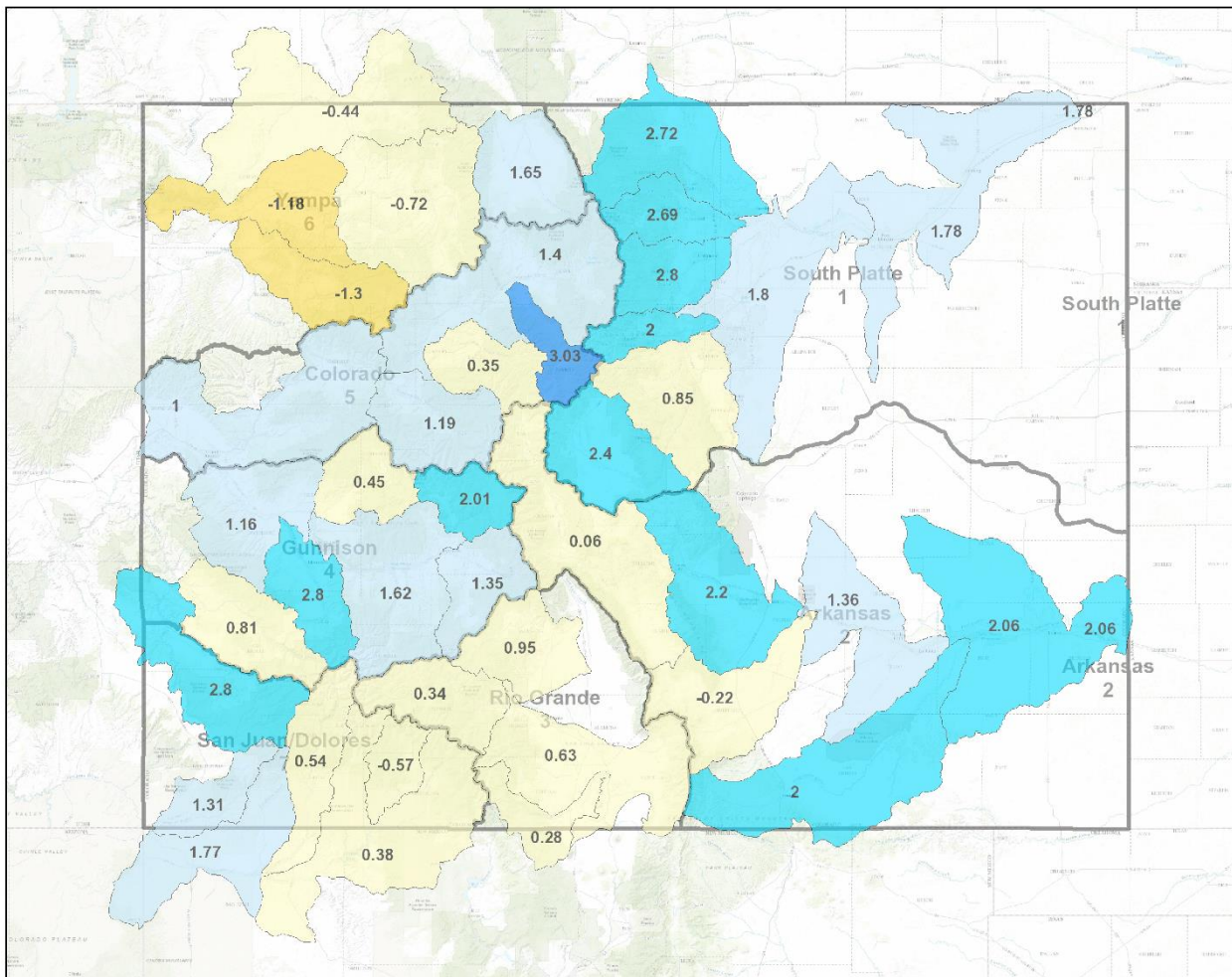
June 1, 2017 SWSI



CDSS

Colorado's Decision Support Systems

June 1, 2017 SWSI



Legend

SWSI - Current Report

- SWSI Not Applicable (-99.99)
- Extremely Dry (-3.0 - -4.2)
- Moderately Dry (-2.0 to -2.9)
- Slightly Dry (-1.0 to -1.9)
- Near Average (-0.9 to 0.9)
- Slightly Wet (1.0 to 1.9)
- Moderately Wet (2.0 to 2.9)
- Extremely Wet (3.0 to 4.2)

- Division
- Citations

Location



Notes

113.39 0 56.7 113.39 Miles

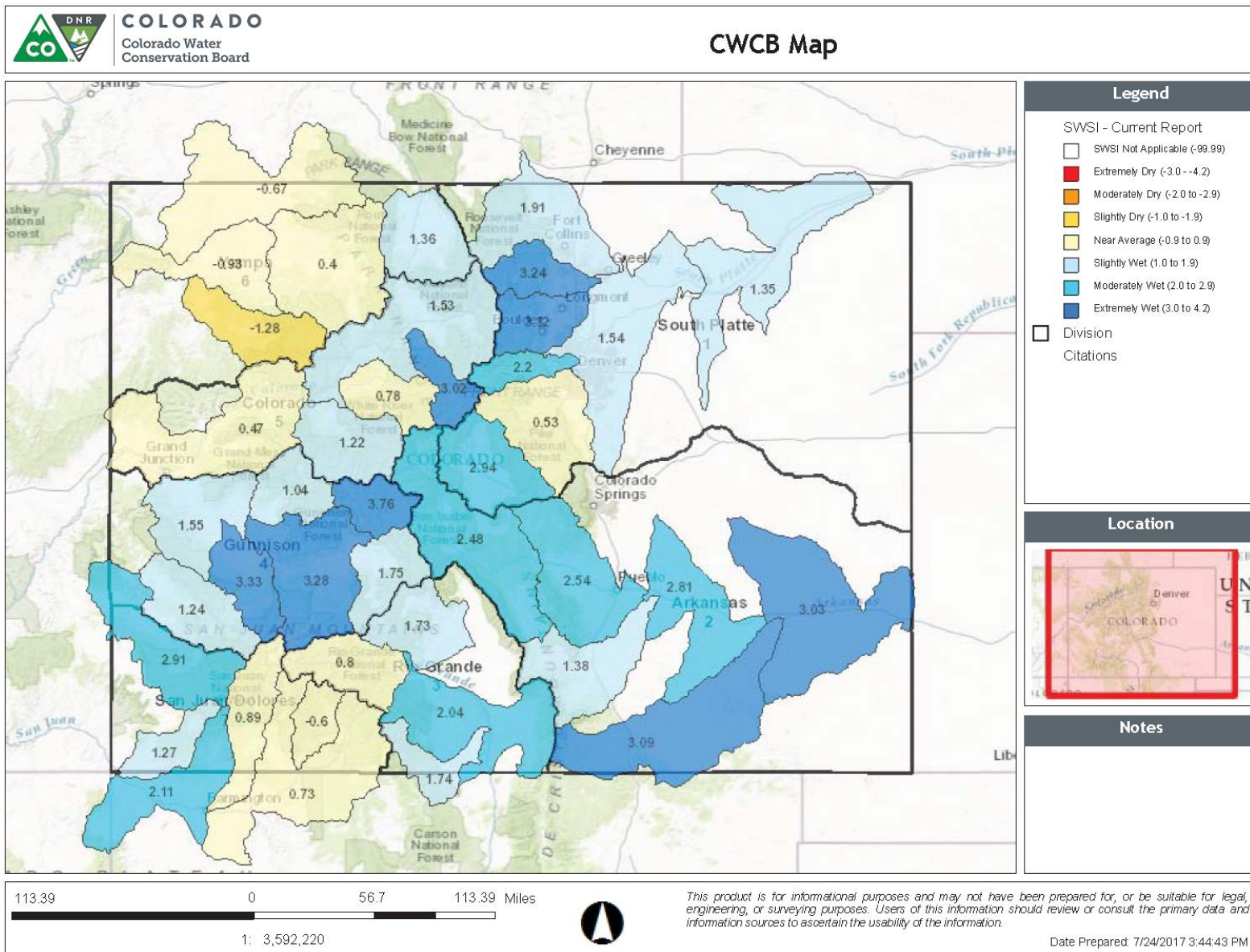
1: 3,592,220



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July 1, 2017 SWSI



Summary

- June continued its dry trend and ended up with only 23% of average mountain precipitation
- Statewide reservoir storage fell from rose back up from 109% to 113% of normal
 - Many large reservoirs are doing particularly well
- We are nearing the end of the standard April – July volumetric streamflow forecast period
- Streamflow in most rivers in the state are steadily declining from the snowmelt peak and moving towards baseflow conditions



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

July 25th, 2017

NRCS Snow Survey and Water Supply Forecasting Program

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