



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

August 17th, 2016

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

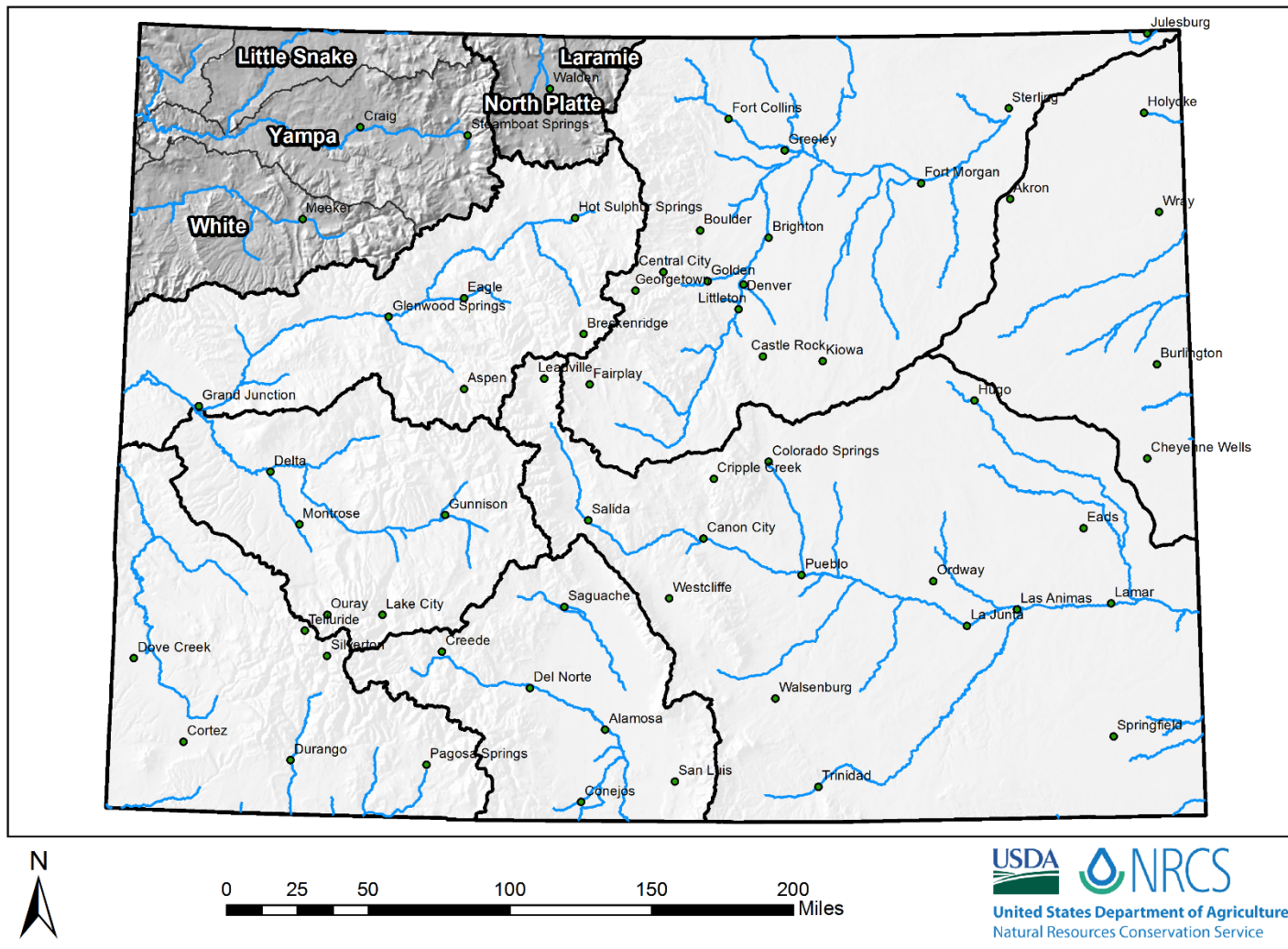
Hydrologist

720-544-2852

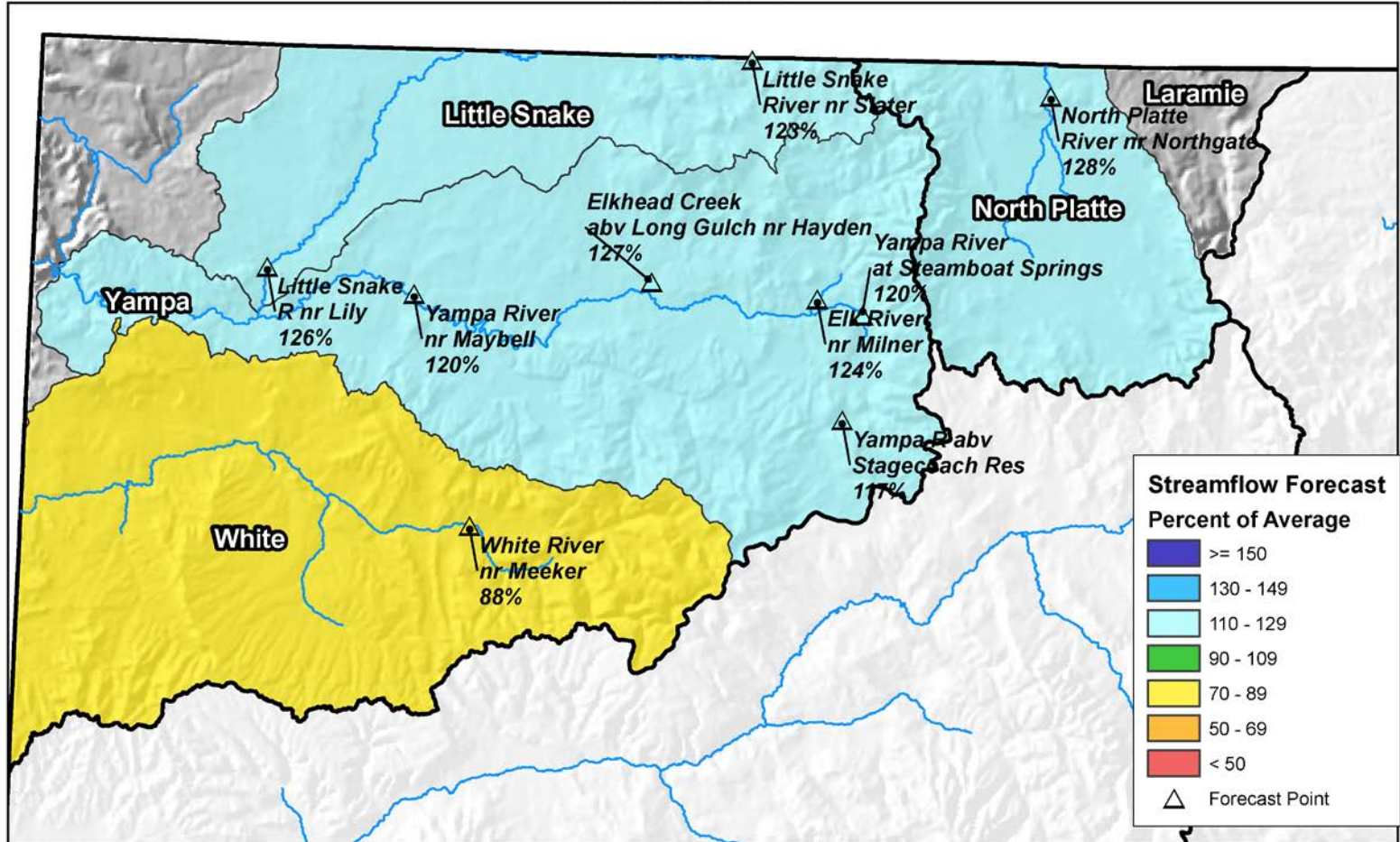
<http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/>

Major Basin Summary

Yampa, White, and North Platte River Basins



Yampa, White, and North Platte River Basins Streamflow Forecast Summary June 1, 2016

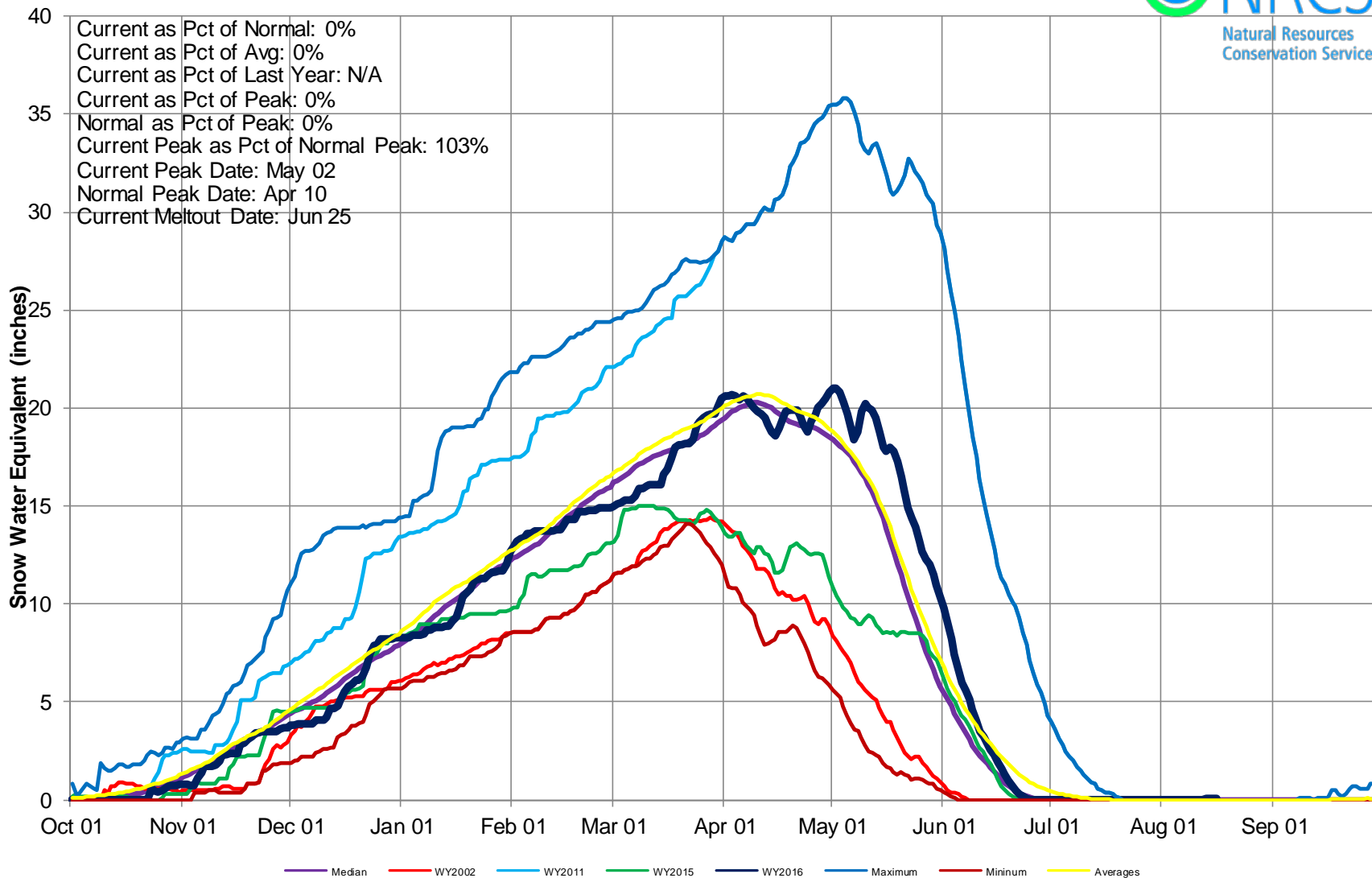


0 10 20 40 60 80 Miles



Yampa, White & North Platte River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Aug 16, 2016



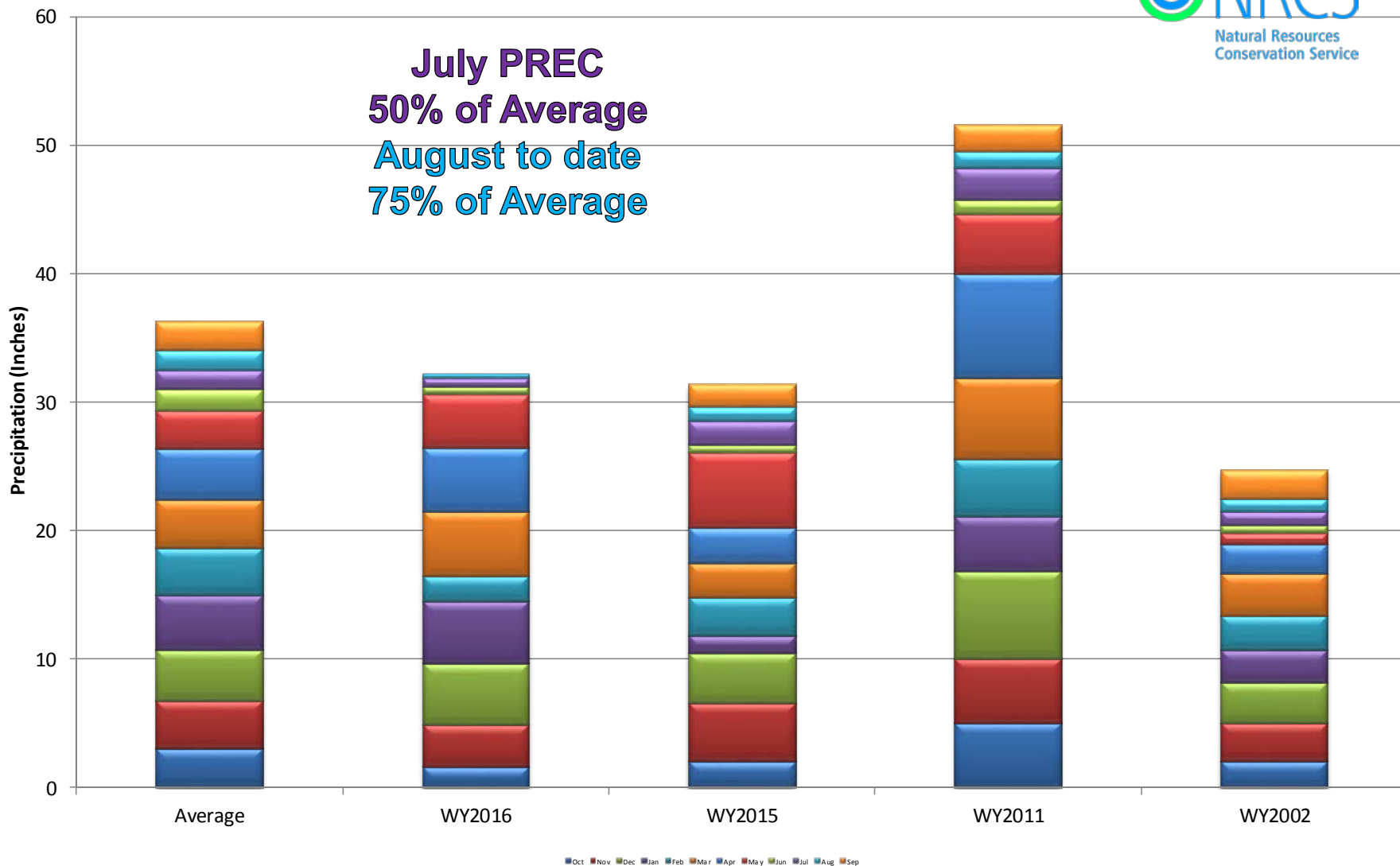


Yampa & White River Basins High/Low Monthly Precipitation Summary

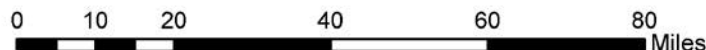
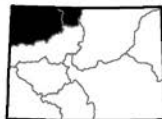
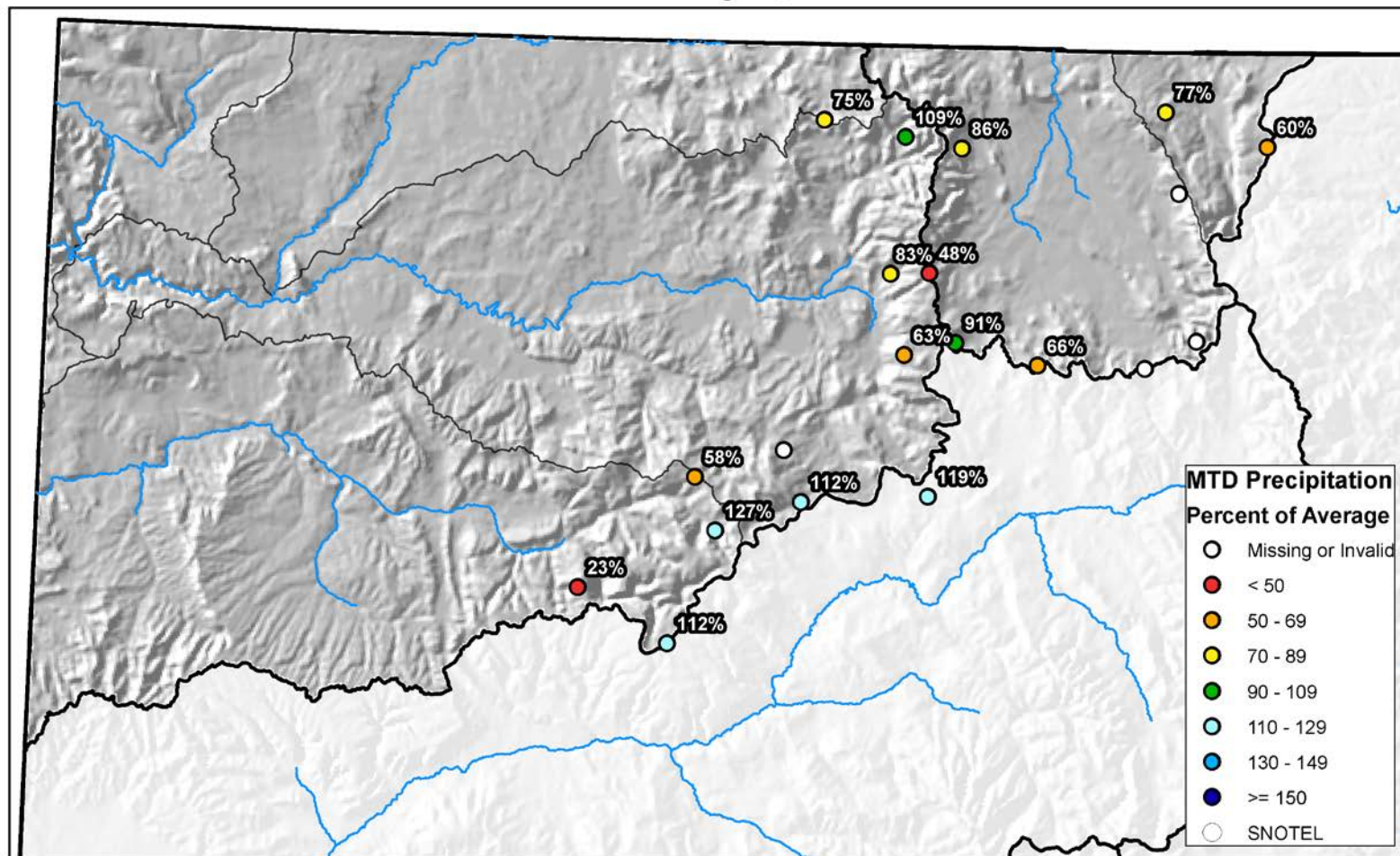
Based on Provisional SNOTEL data as of Aug 16, 2016



July PREC
50% of Average
August to date
75% of Average



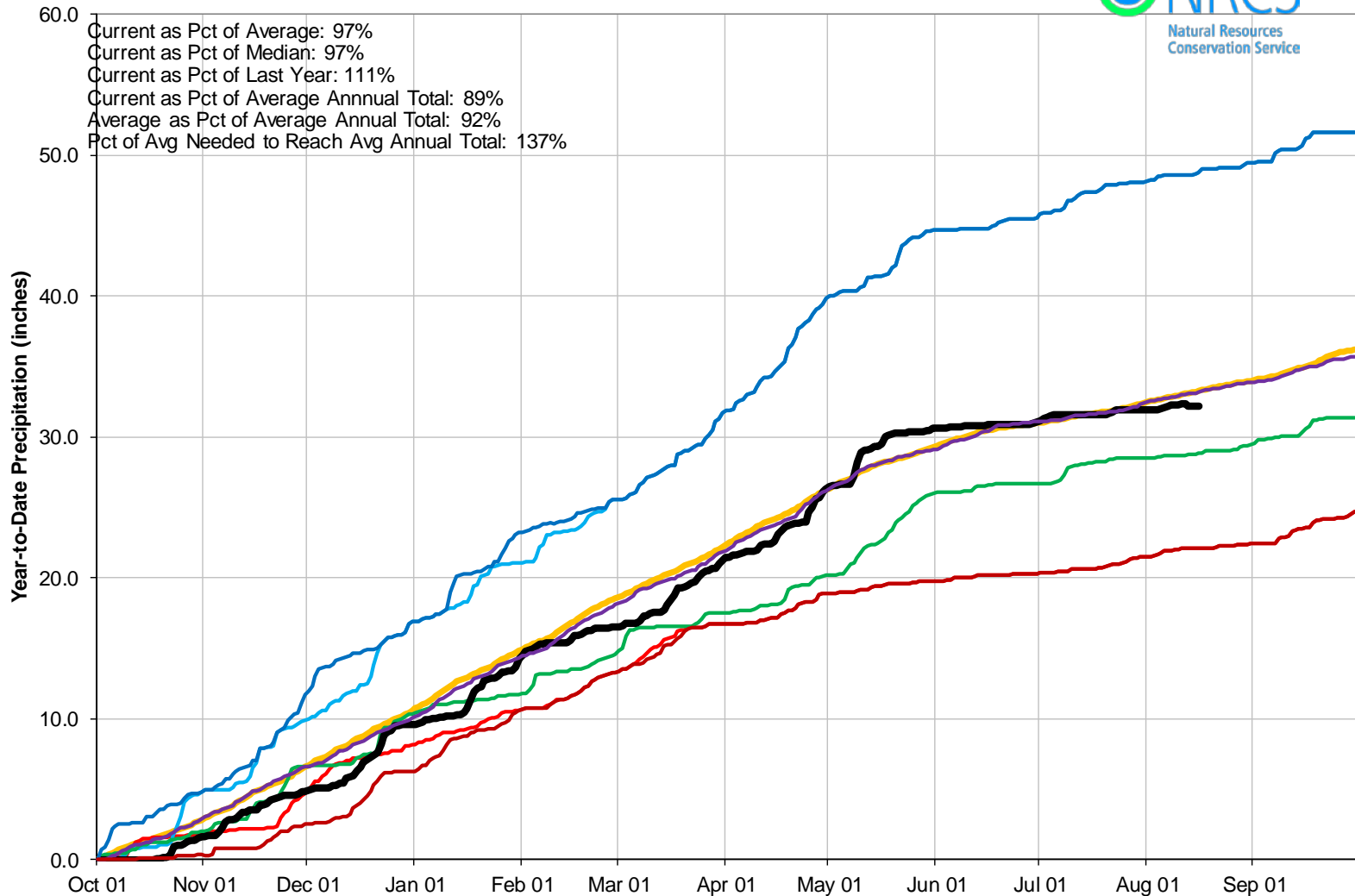
Yampa, White, and North Platte River Basins Month to Date Precipitation Summary Current as of Aug 16, 2016

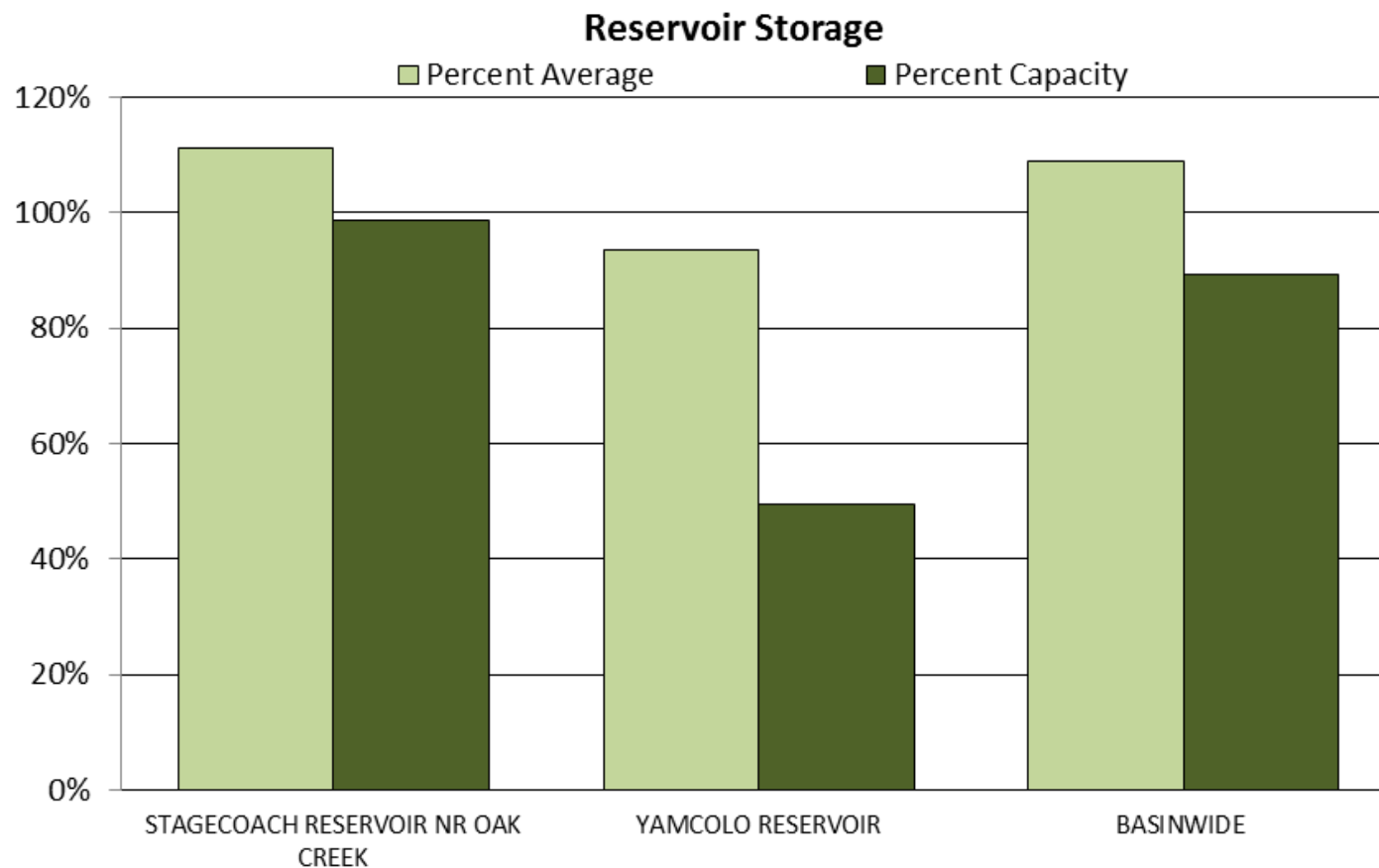




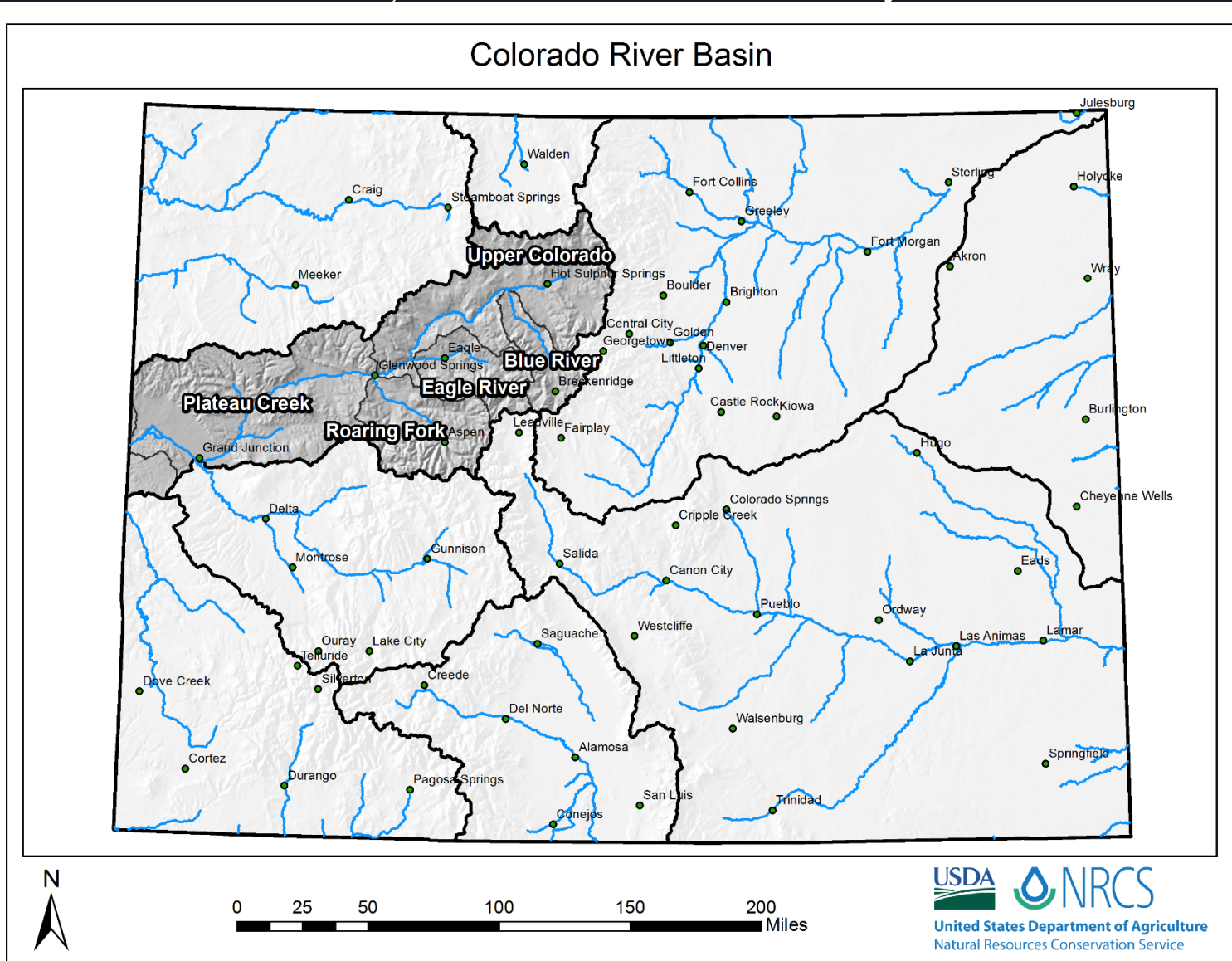
Yampa & White River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016



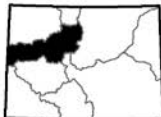
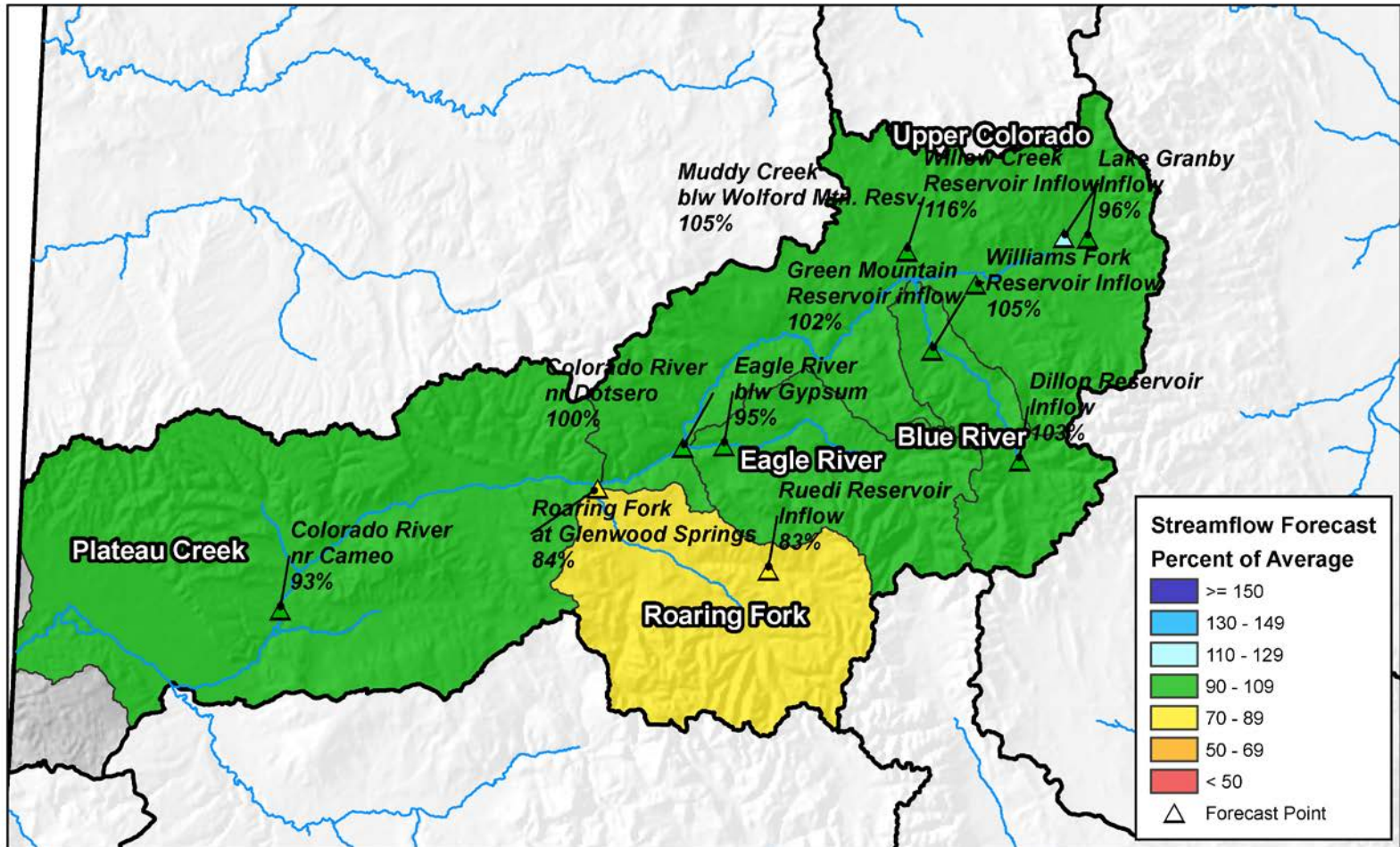


Major Basin Summary



Upper Colorado River Basin Streamflow Forecast Summary

June 1, 2016

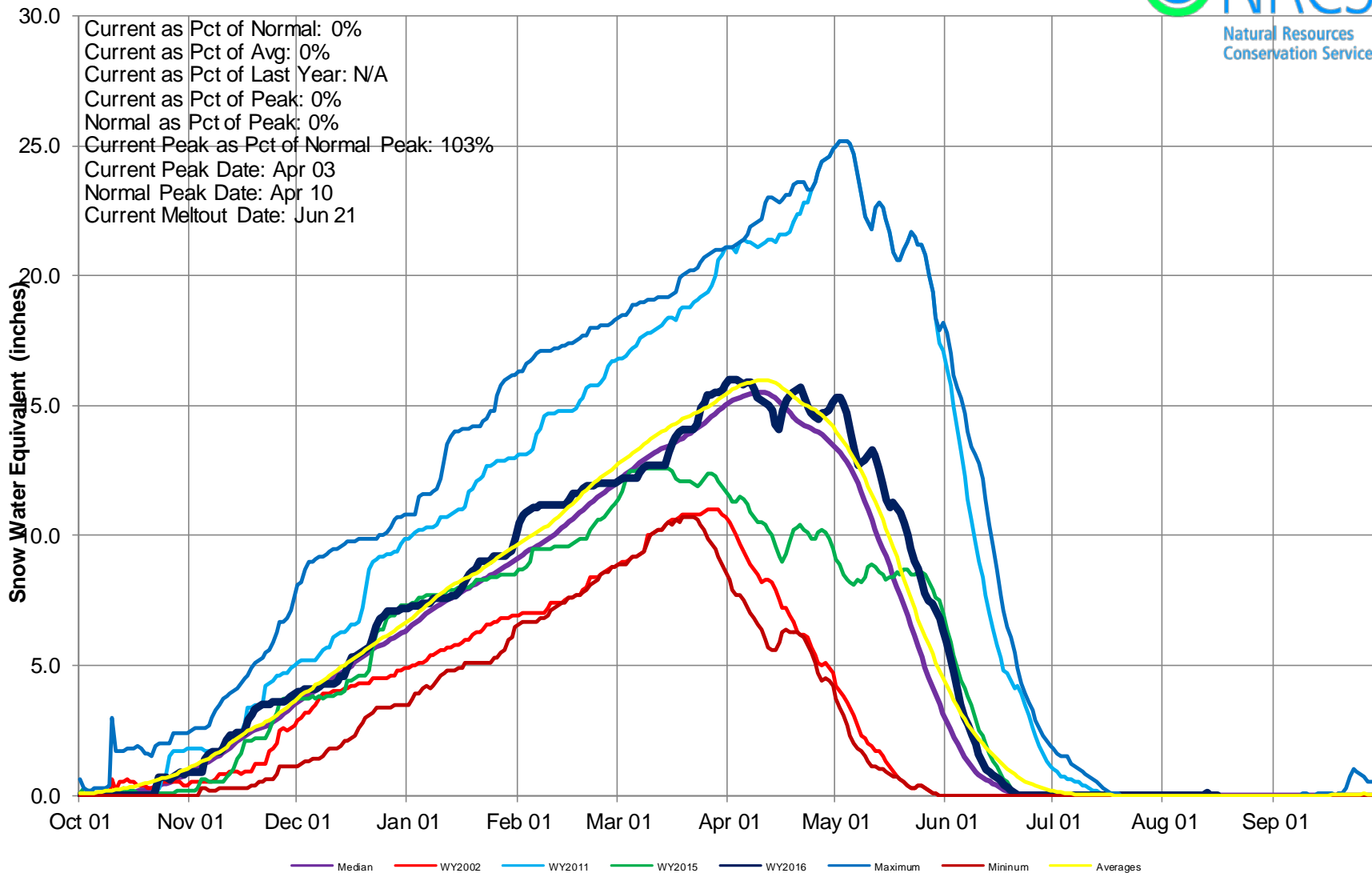


0 10 20 40 60 80 Miles



Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Aug 16, 2016



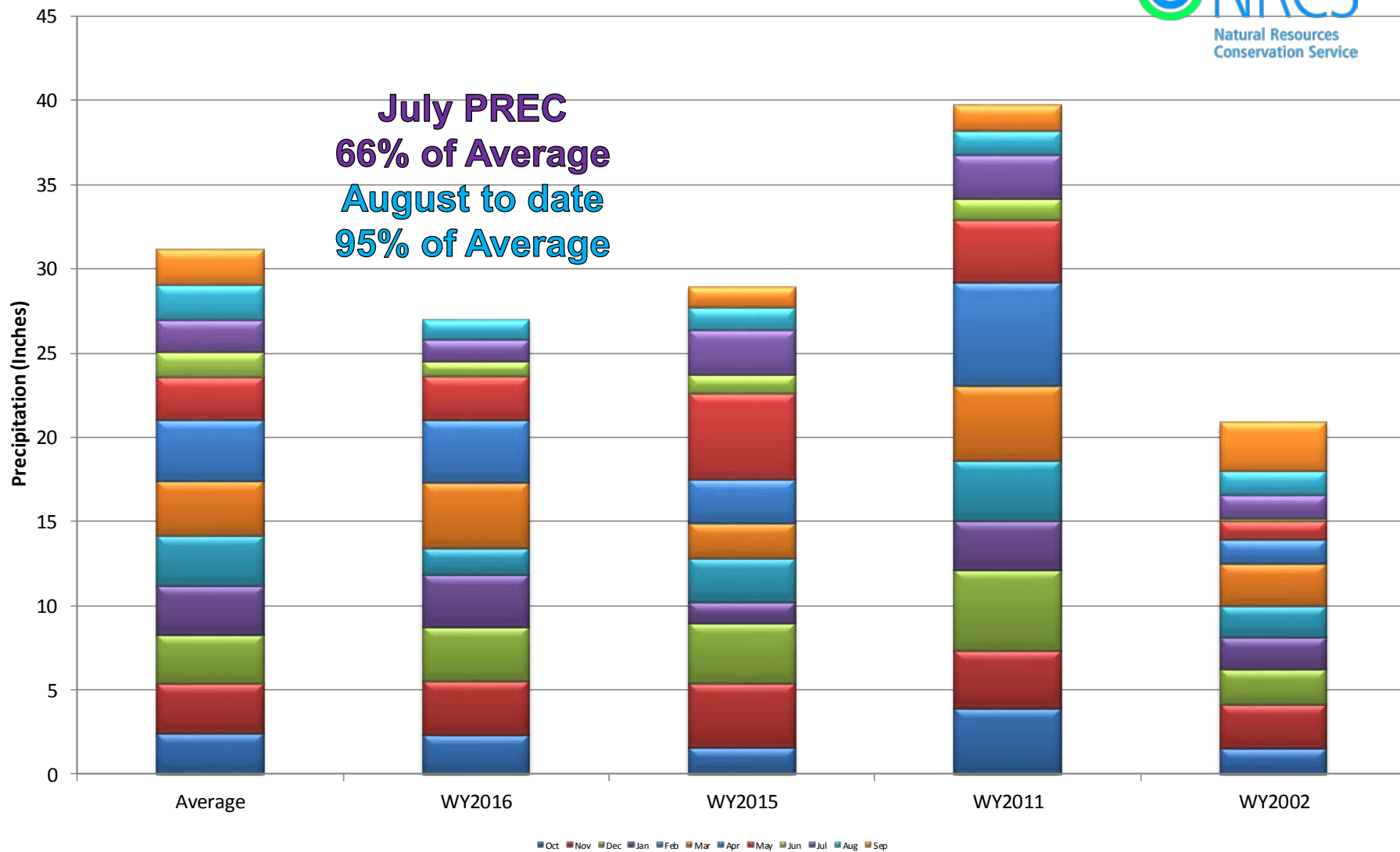


Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016

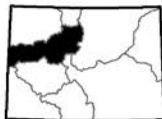
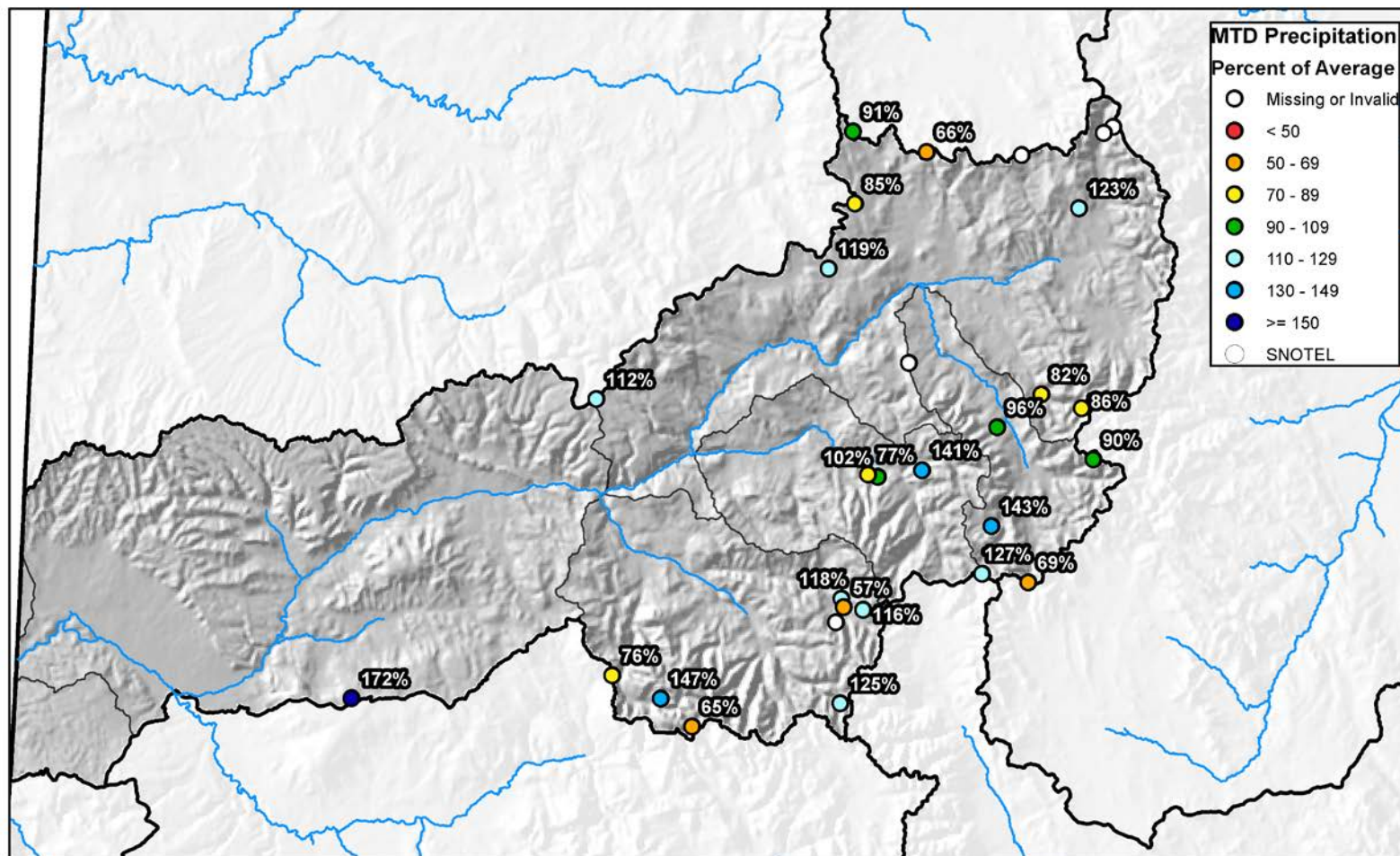


July PREC
66% of Average
August to date
95% of Average



Upper Colorado River Basin Month to Date Precipitation Summary

Current as of Aug 16, 2016



0 10 20 40 60 80 Miles



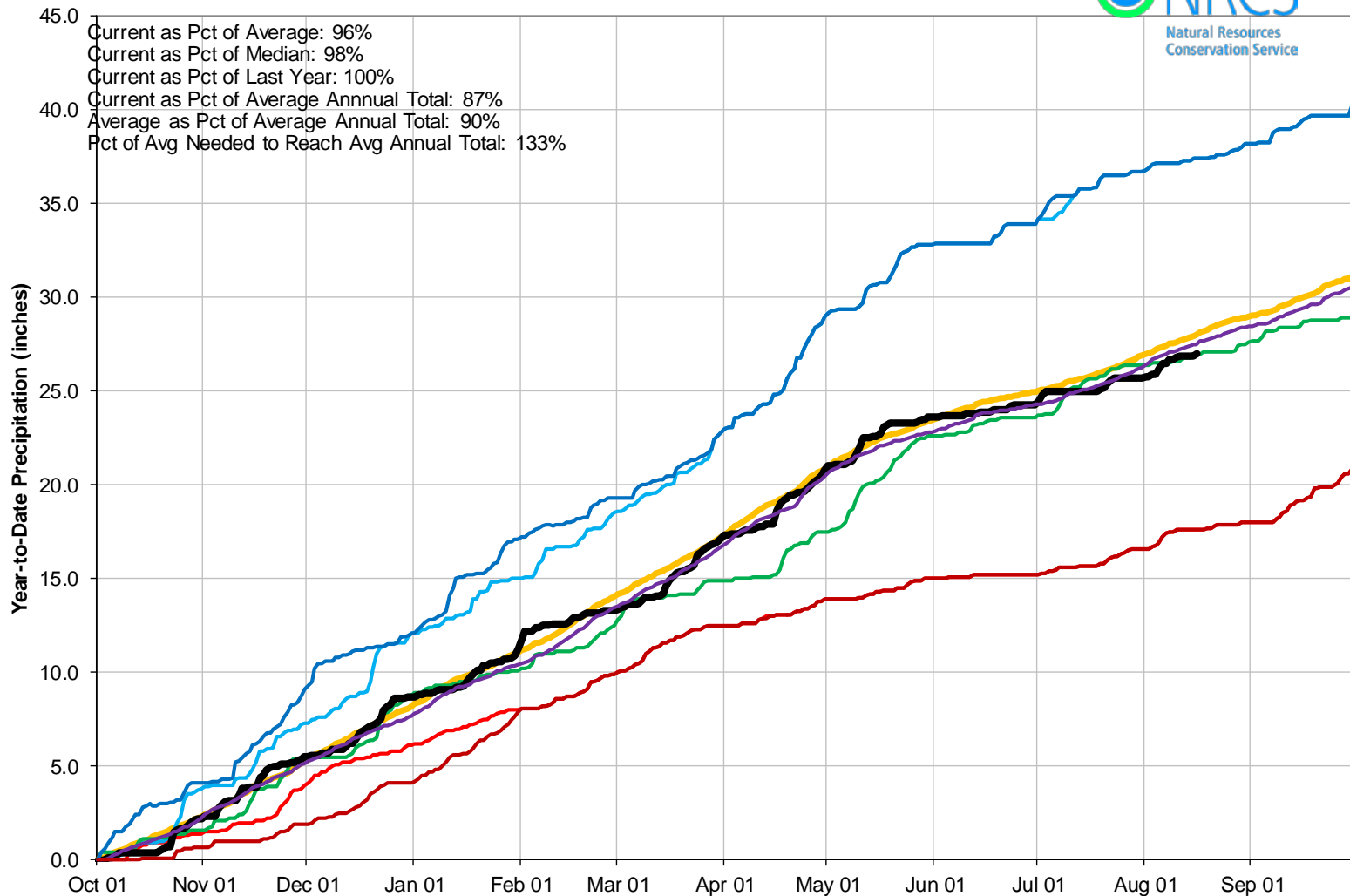
United States Department of Agriculture

Natural Resources Conservation Service

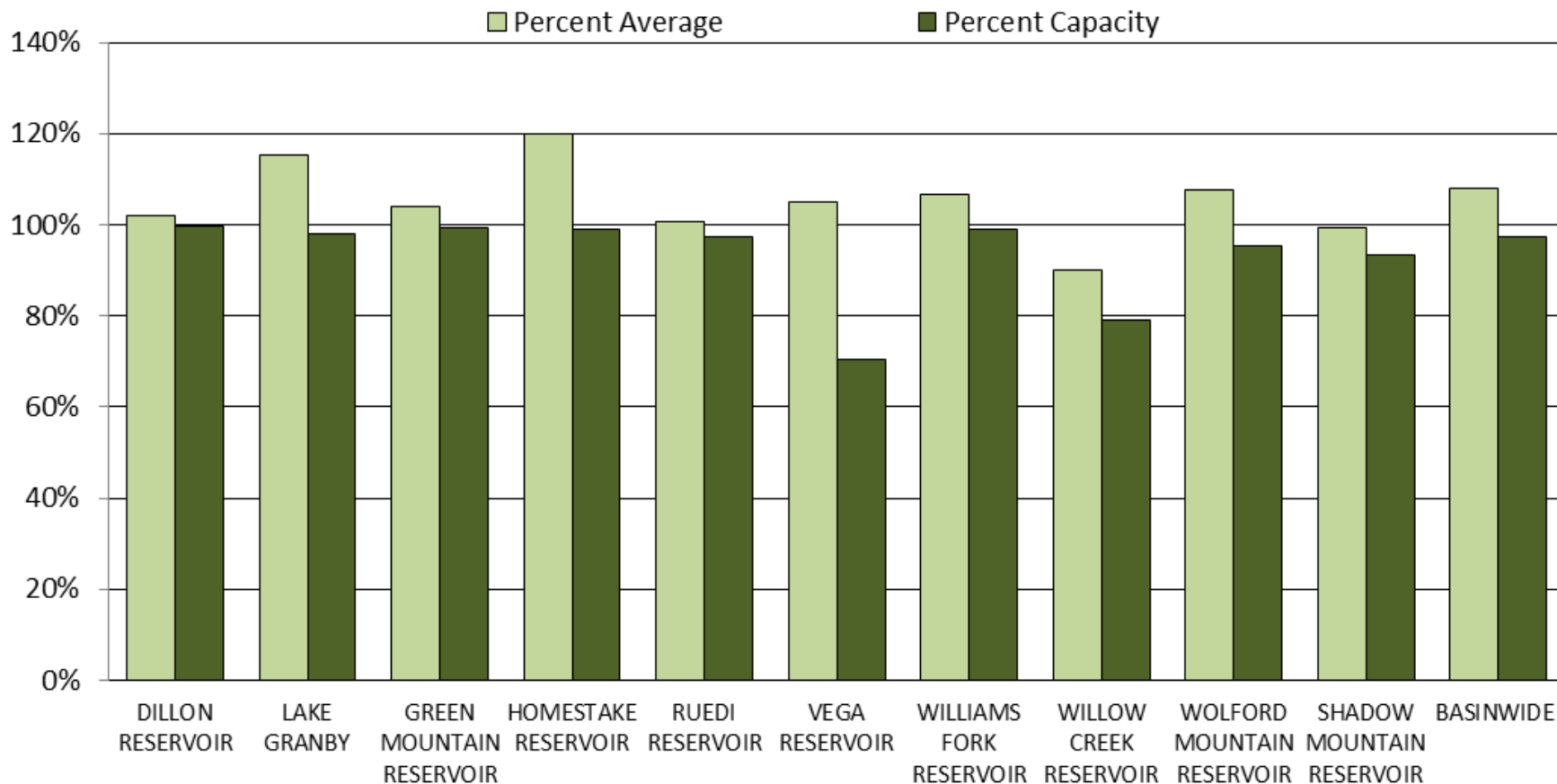


Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016

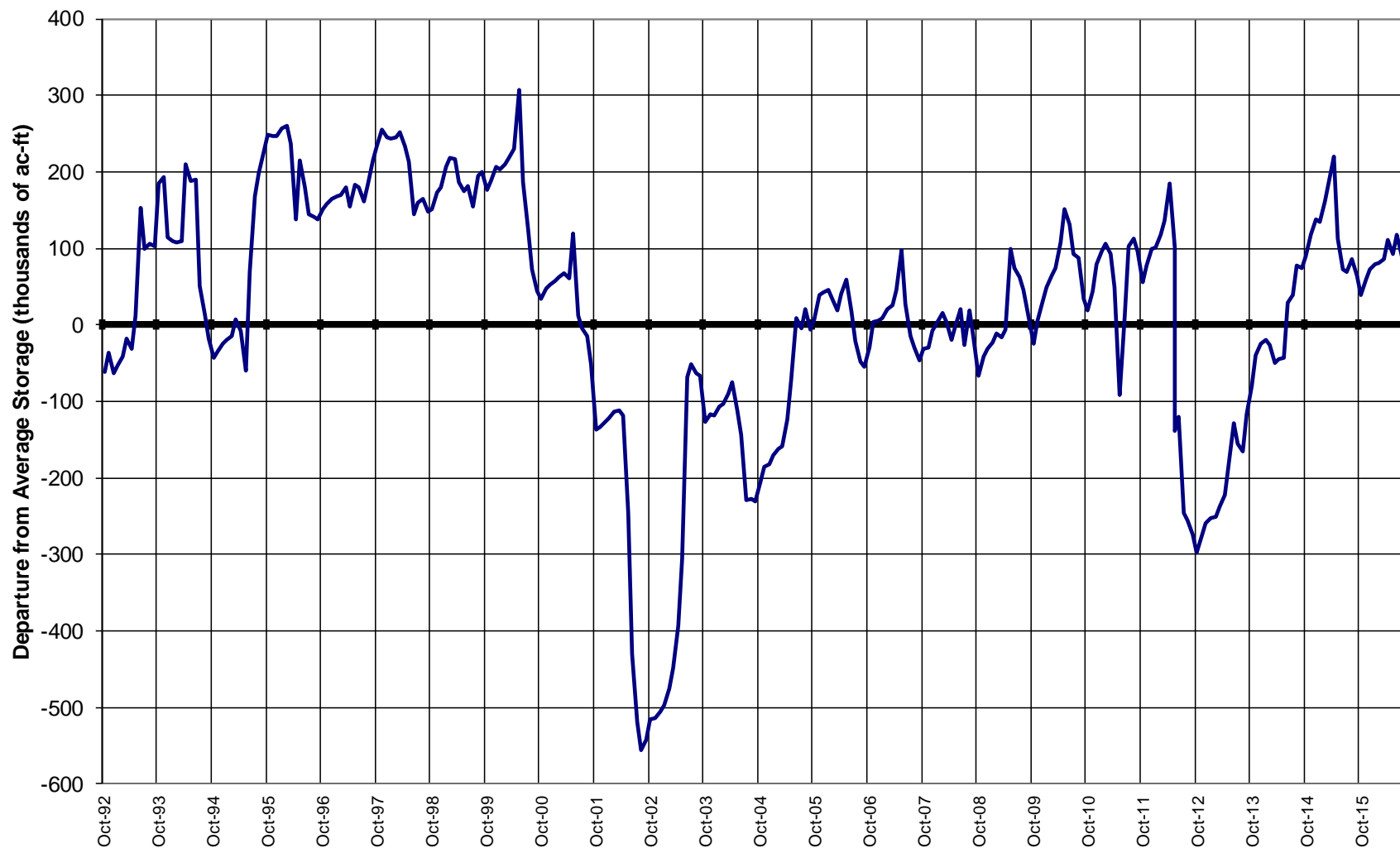


Reservoir Storage





COLORADO RIVER BASIN Reservoir Storage Departure from Average

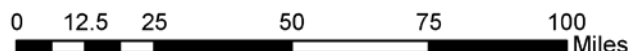
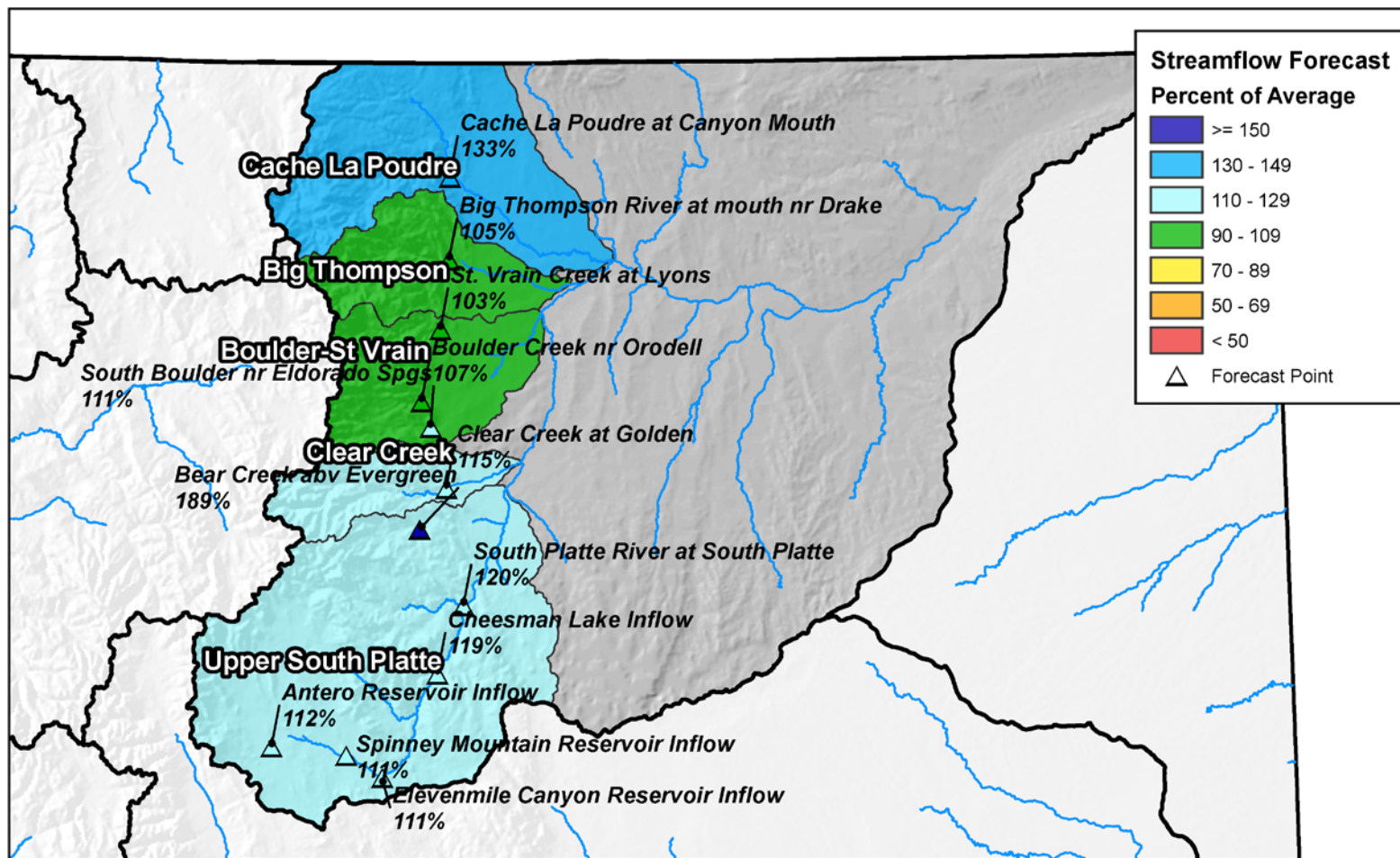


A map of Colorado showing its major river basins and cities. The basins are labeled in bold black text: Cache La Poudre, Big Thompson, Boulder-St. Vrain, Clear Creek, and Upper South Platte. The basins are shaded in light gray. Major cities are marked with green dots and labeled. The map shows the state's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



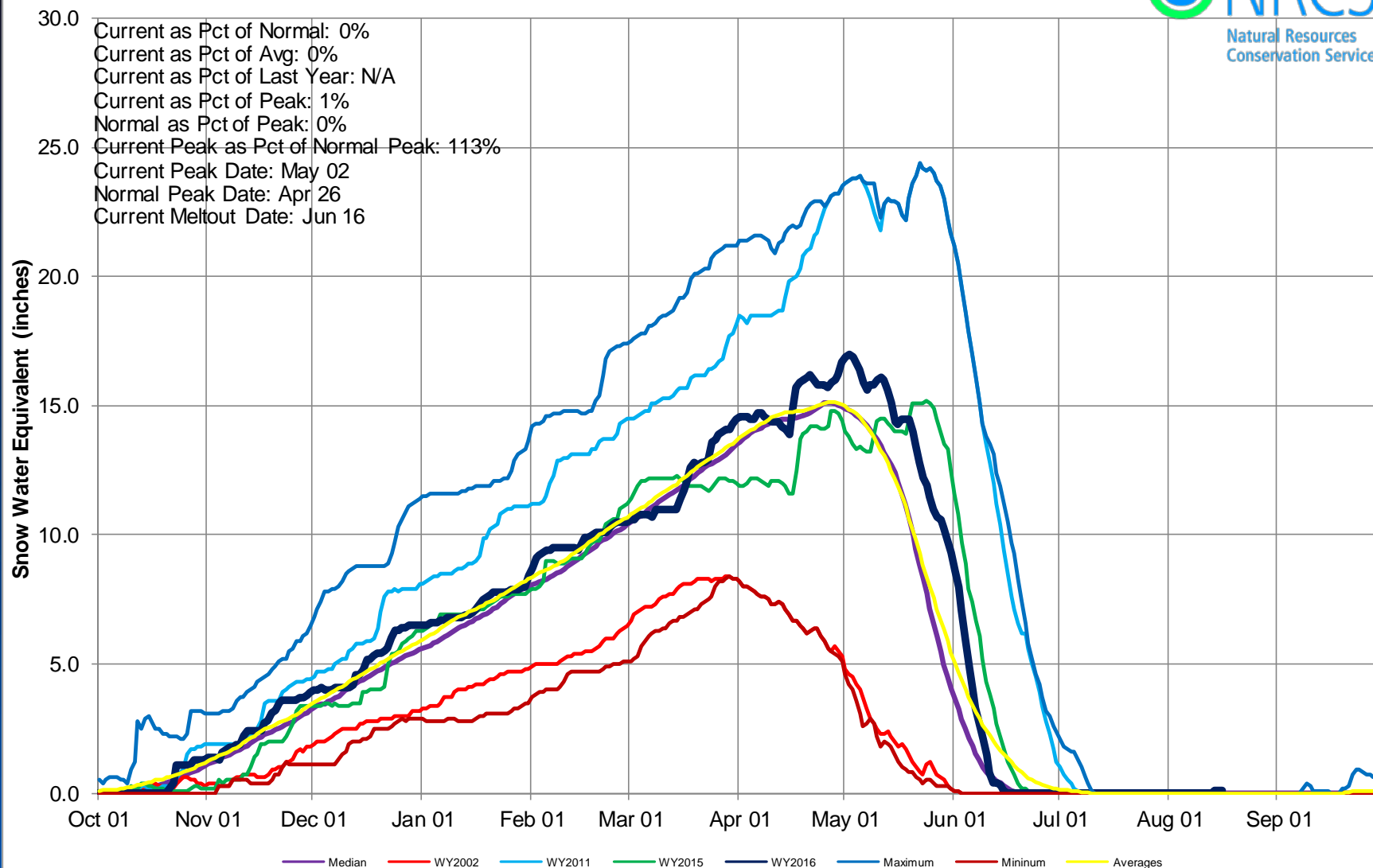
South Platte River Basin Streamflow Forecast Summary

June 1, 2016



South Platte River Basin High/Low Snowpack Summary

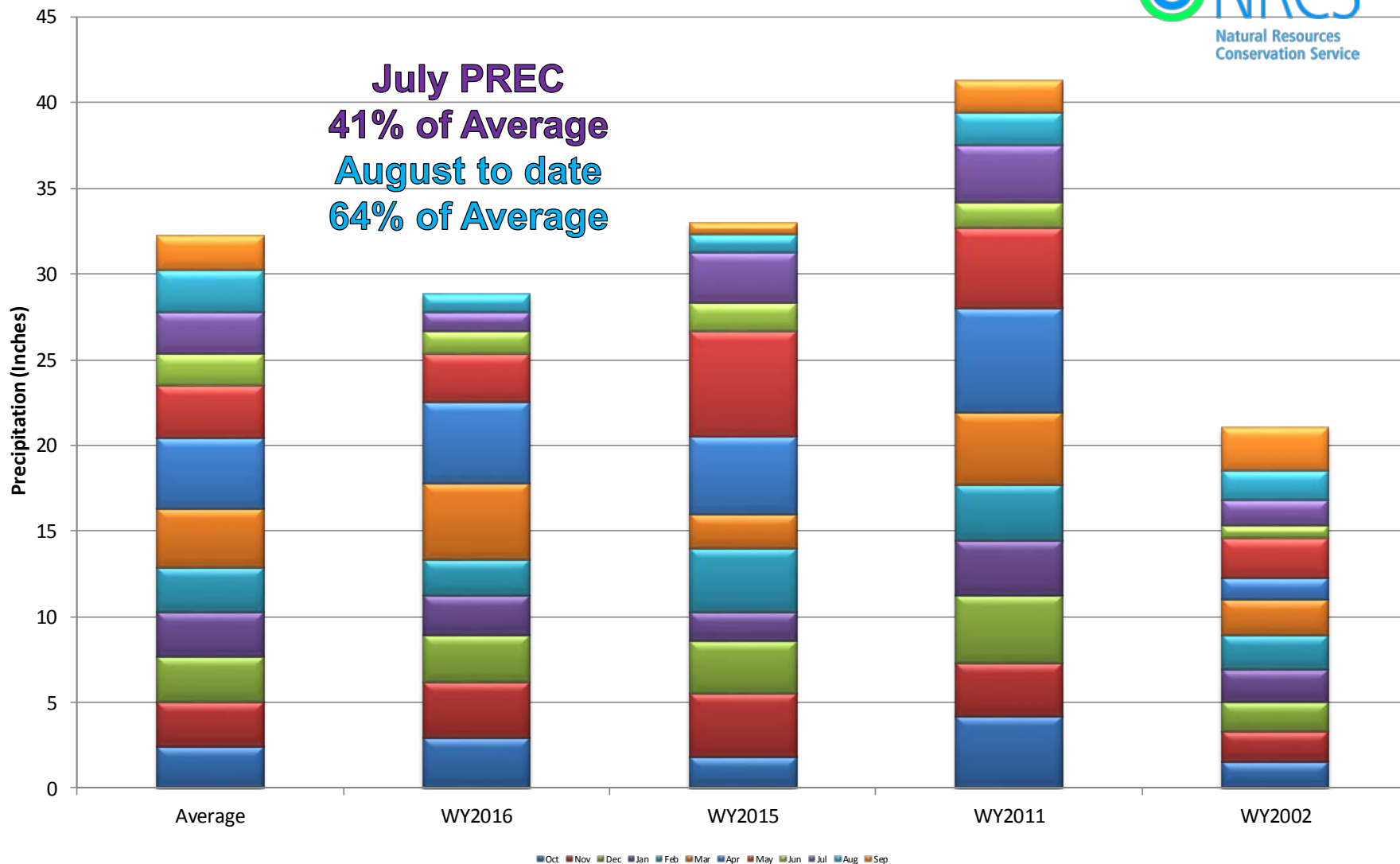
Based on Provisional SNOTEL data as of Aug 16, 2016





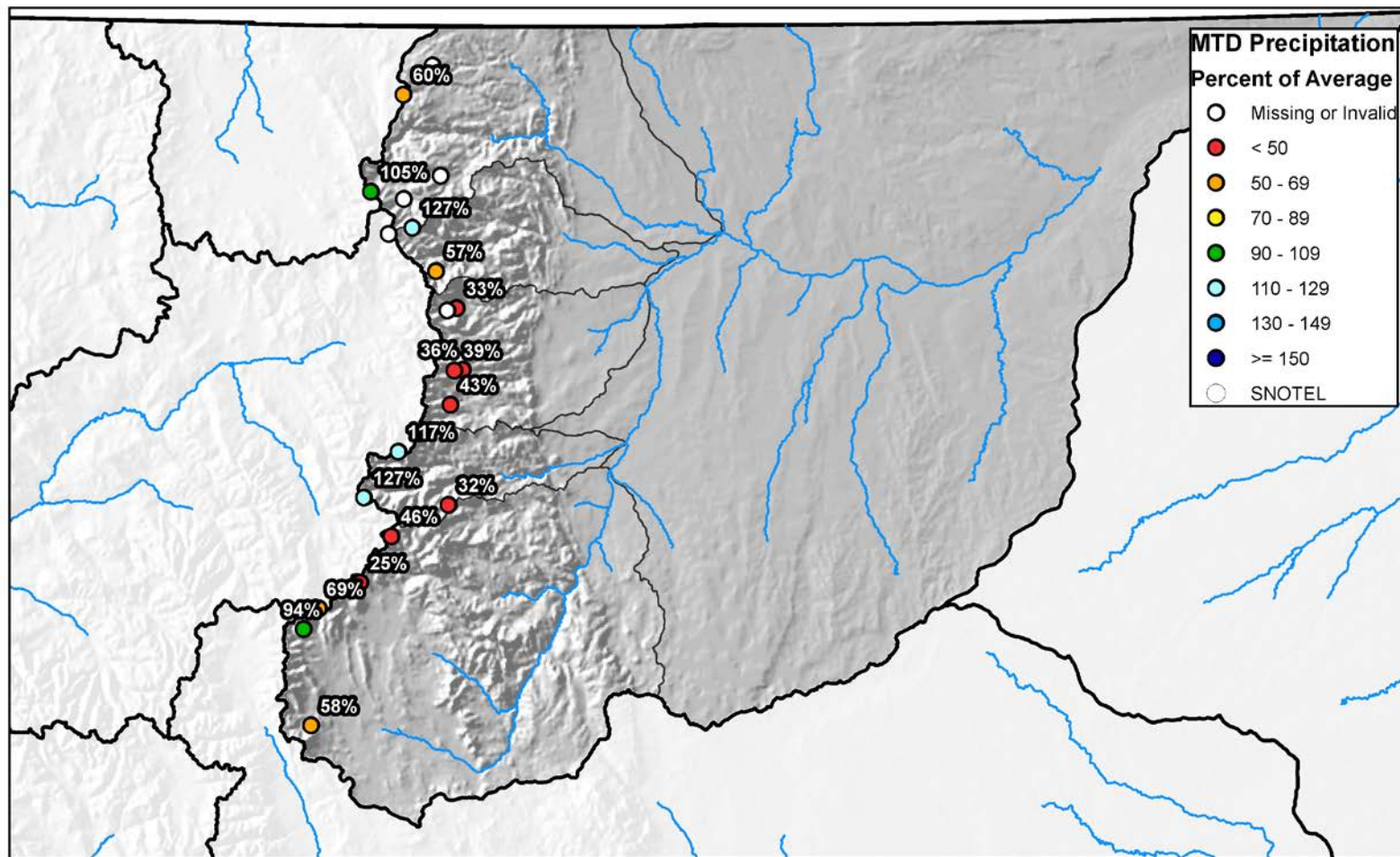
South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016



South Platte River Basin Month to Date Precipitation Summary

Current as of Aug 16, 2016

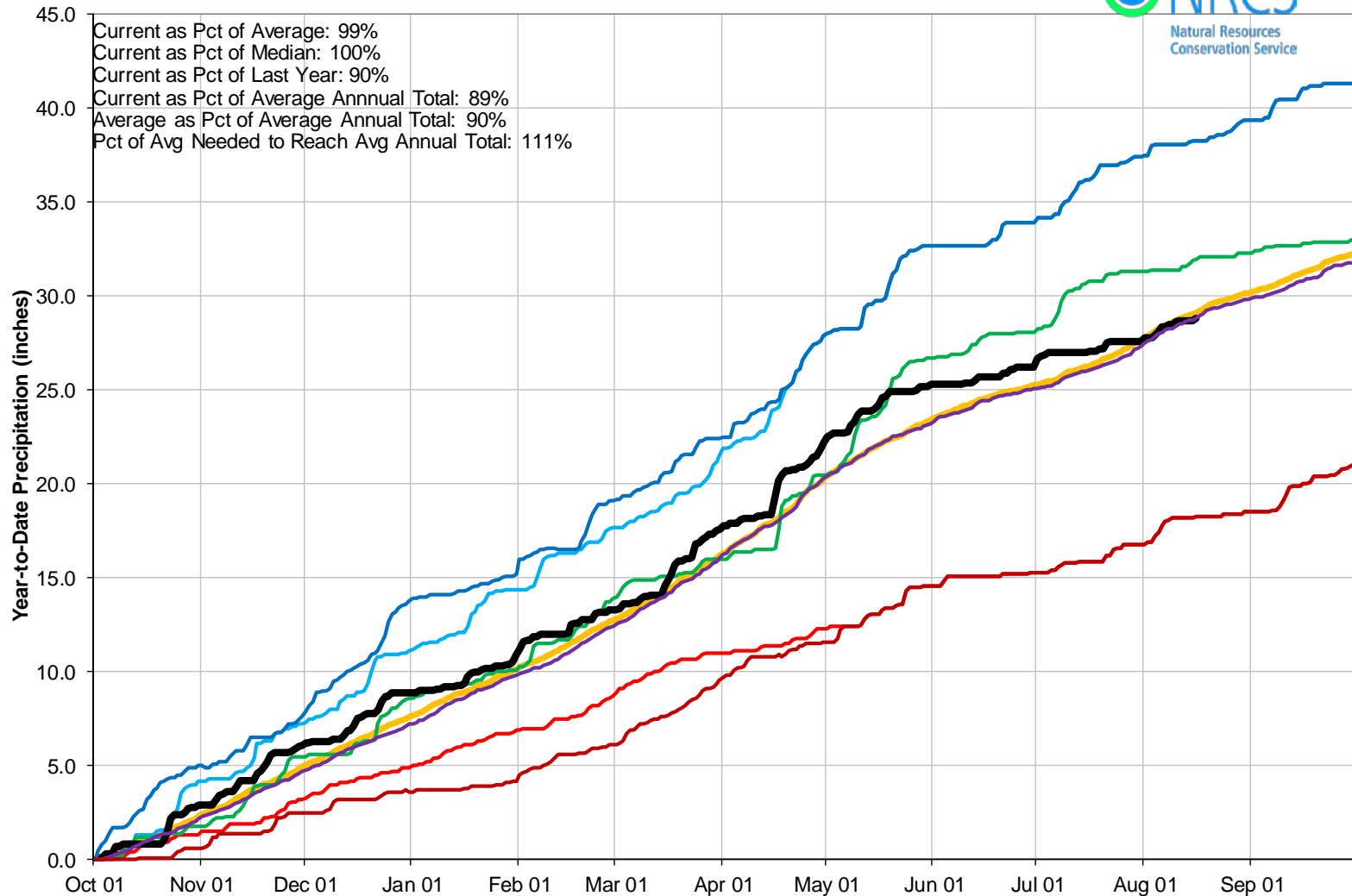


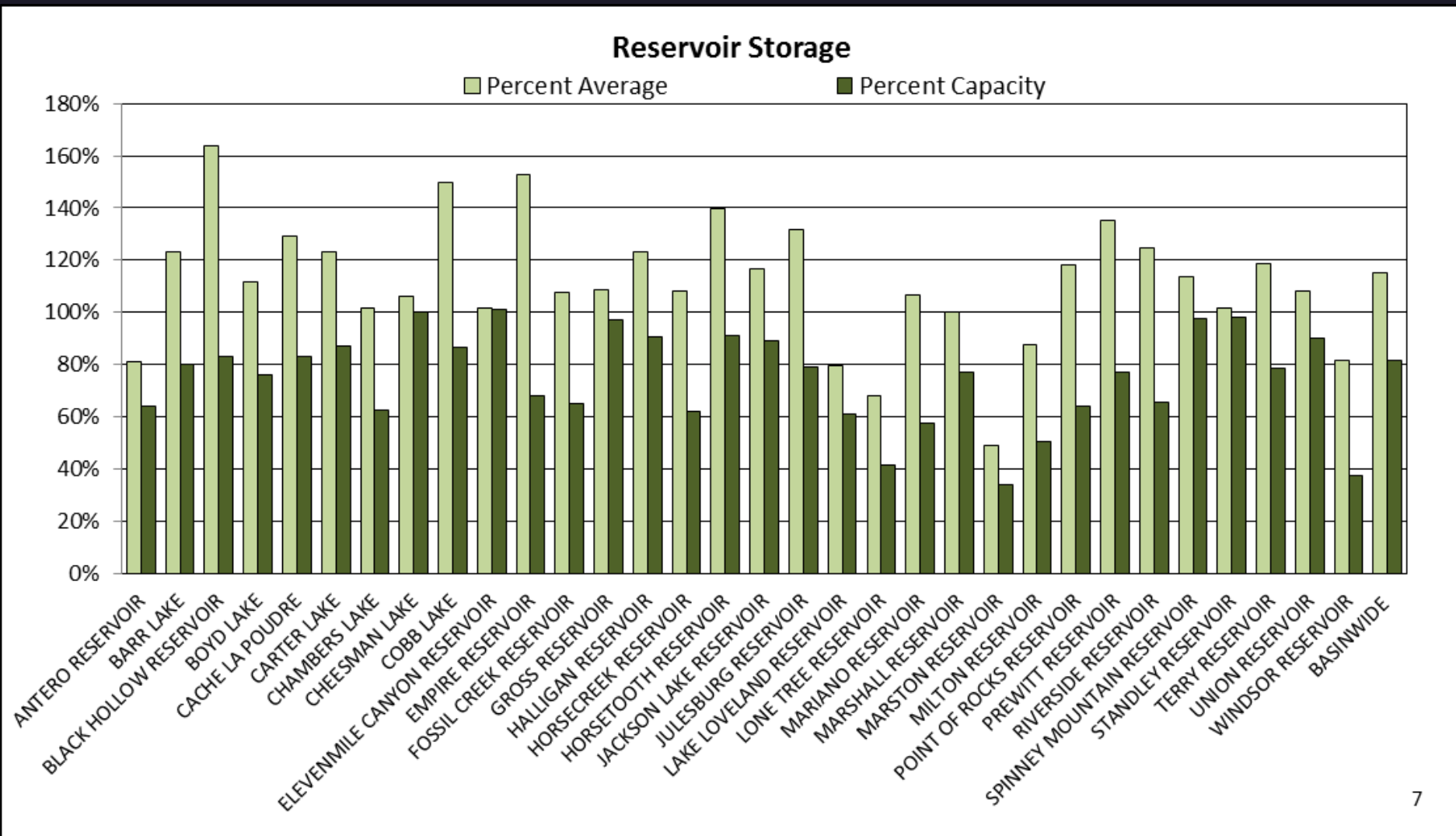
0 10 20 40 60 80 Miles



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

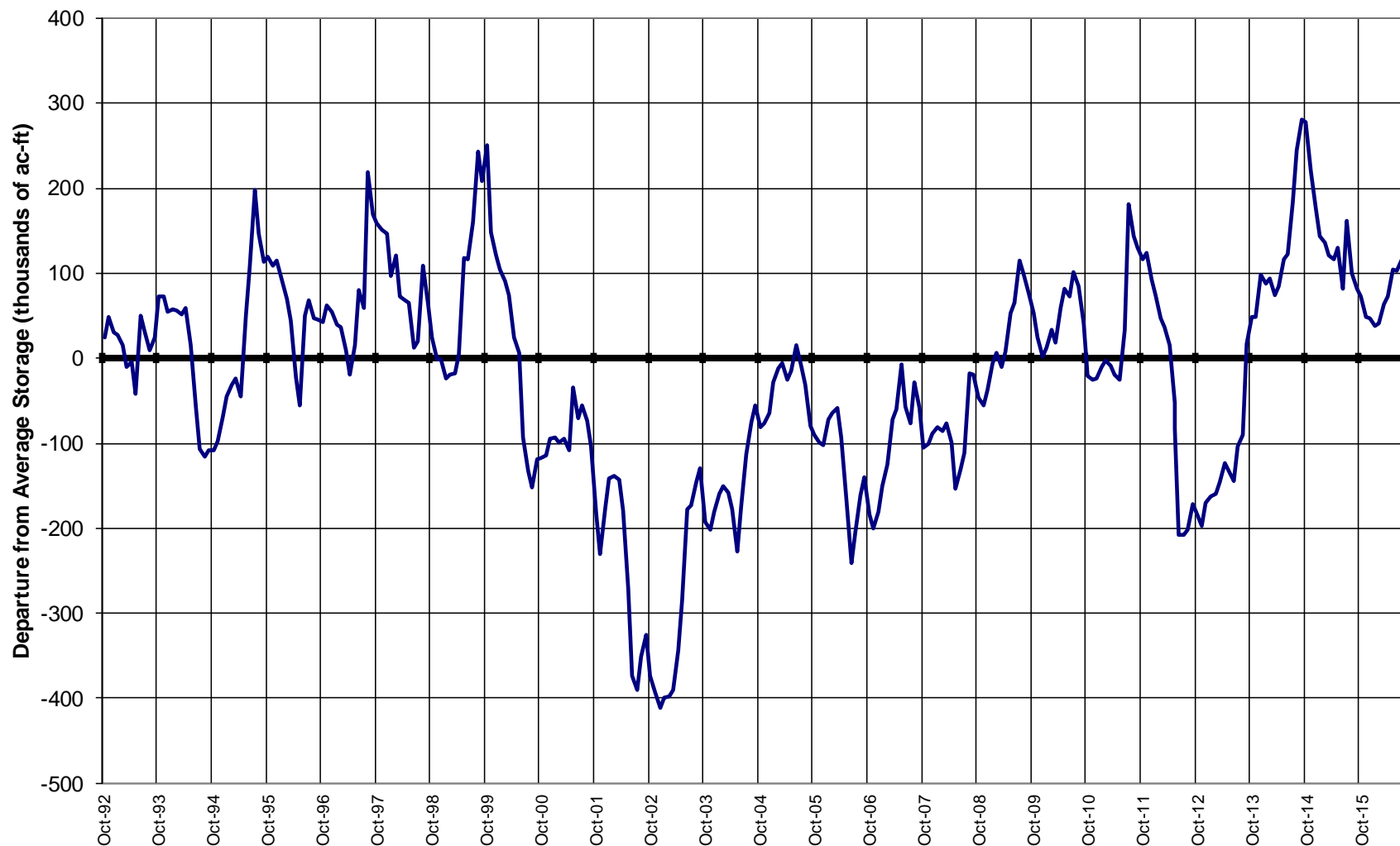
Based on Provisional SNOTEL data as of Aug 16, 2016





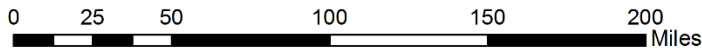
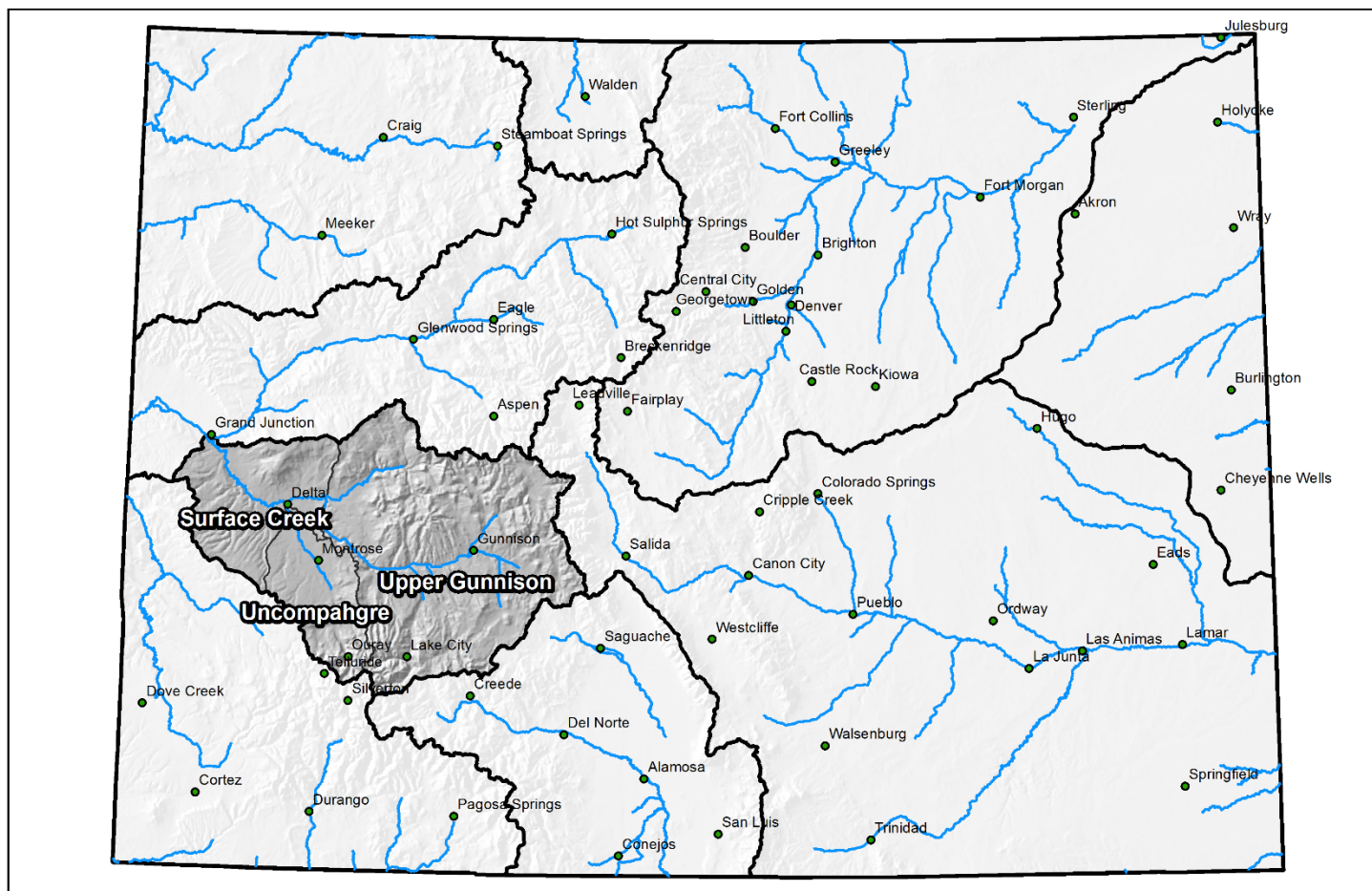


SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



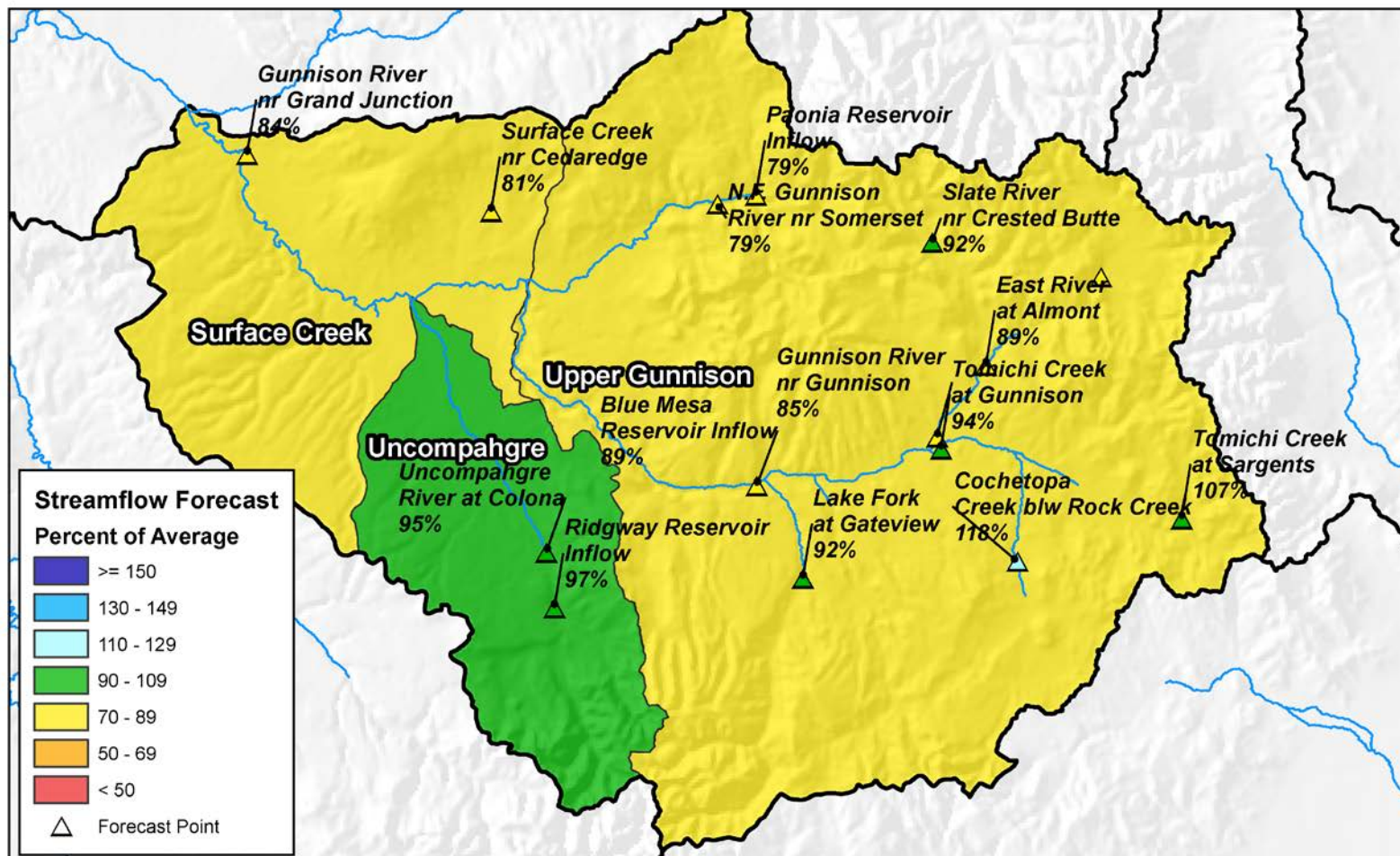
Major Basin Summary

Gunnison River Basin



Gunnison River Basin Water Supply Forecast Summary

June 1, 2016

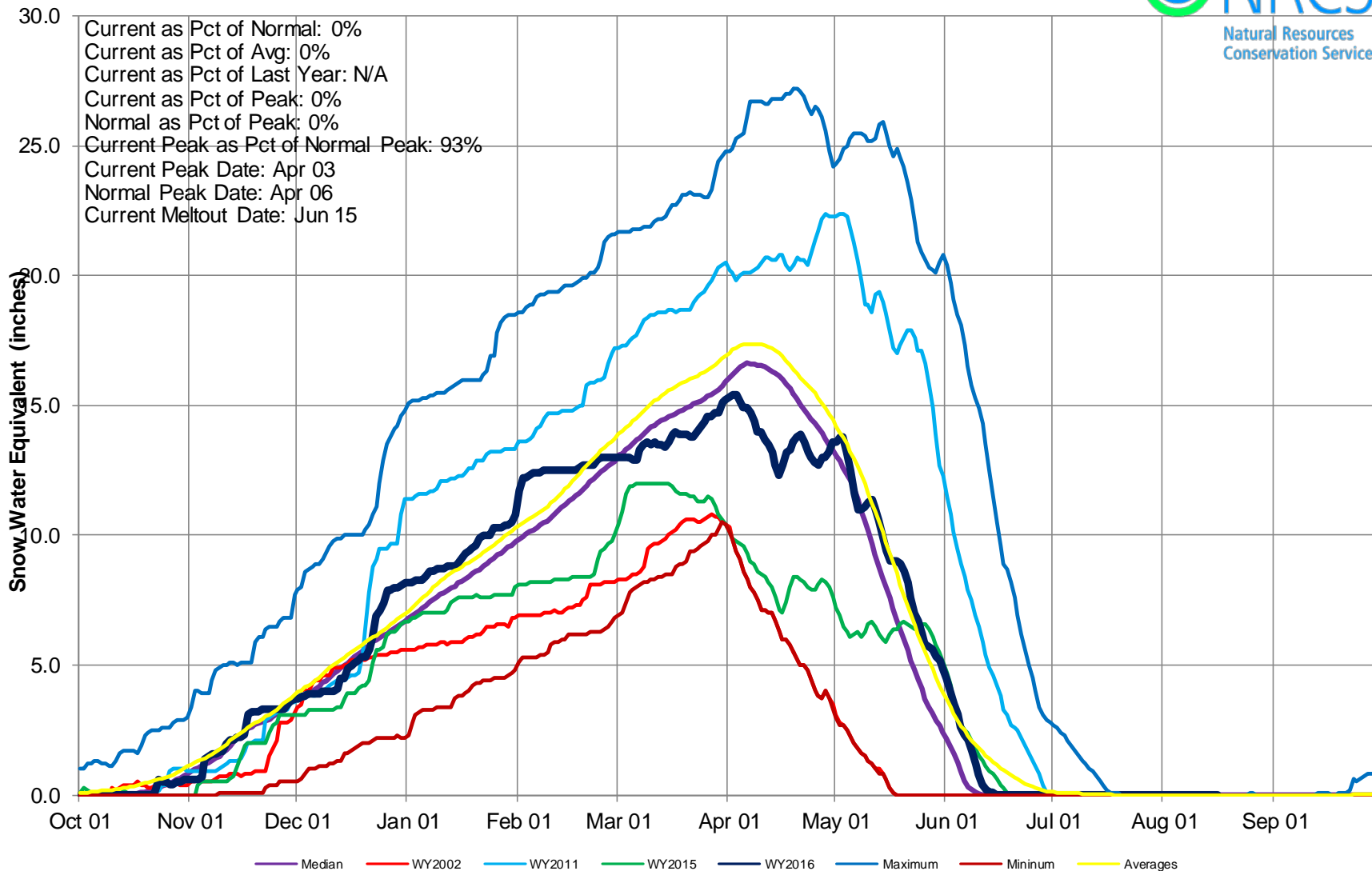


0 5 10 20 30 40 Miles



Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Aug 16, 2016



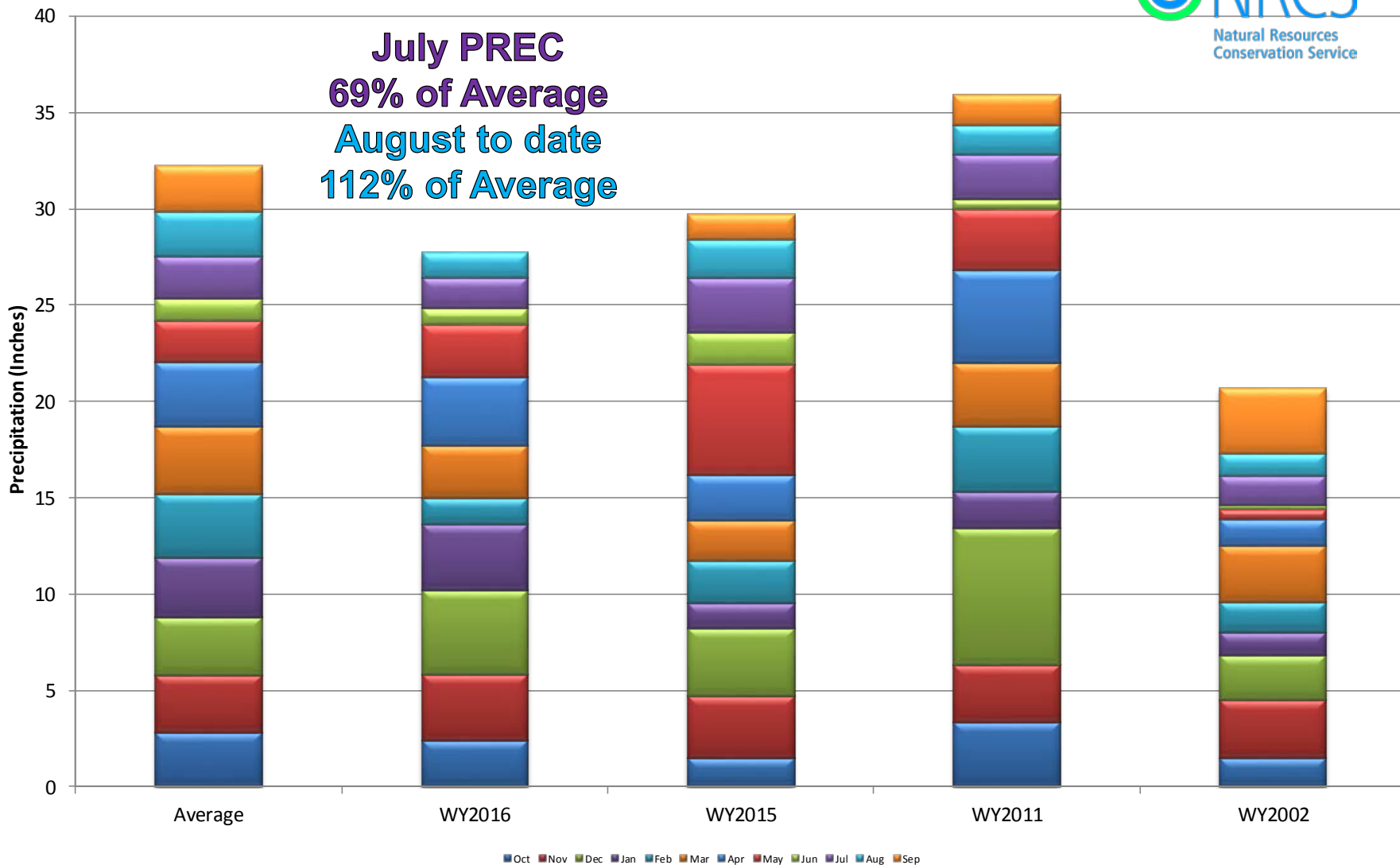


Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016

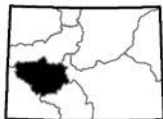
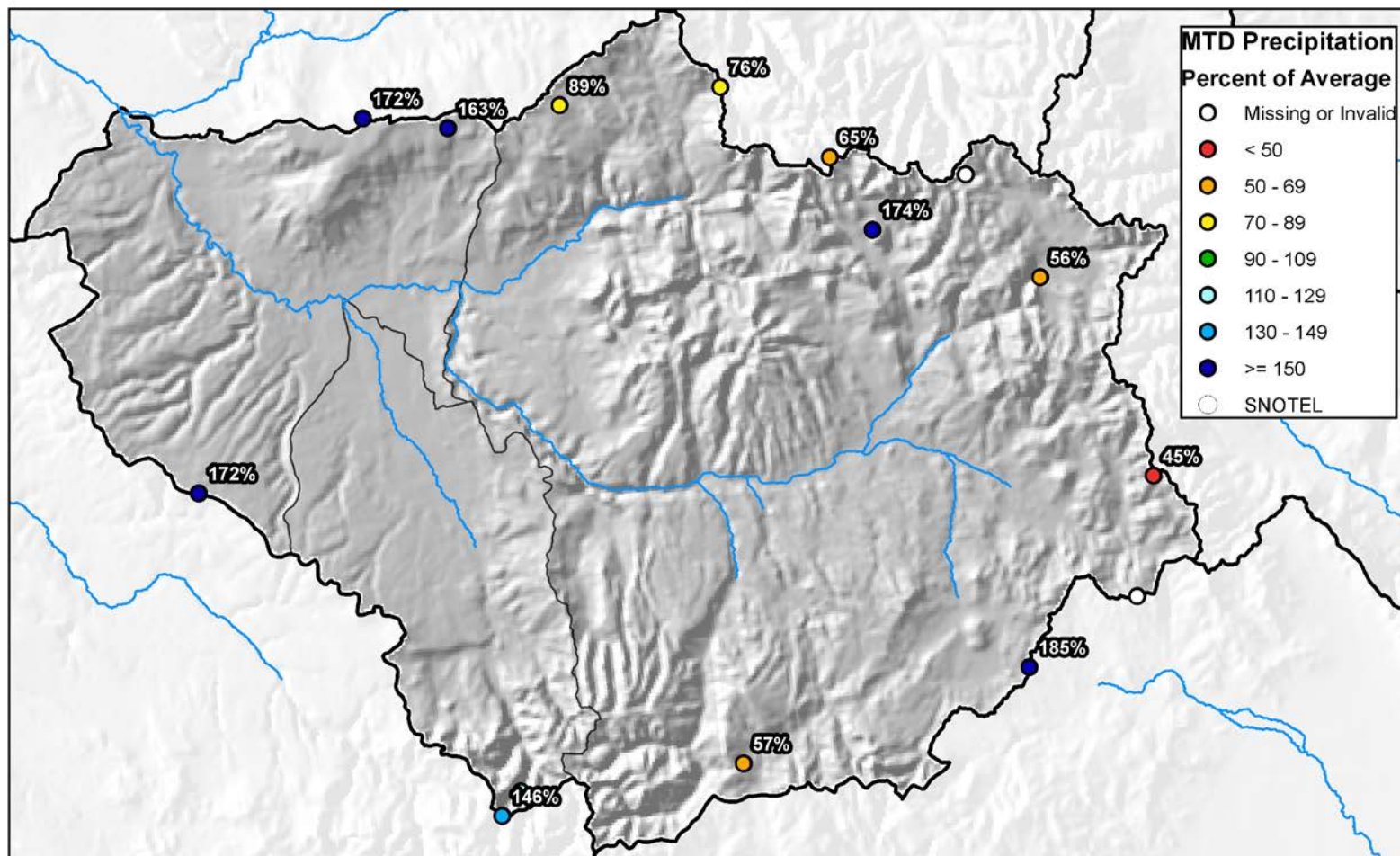


July PREC
69% of Average
August to date
112% of Average



Gunnison River Basin Month to Date Precipitation Summary

Current as of Aug 16, 2016



0 5 10 20 30 40 Miles



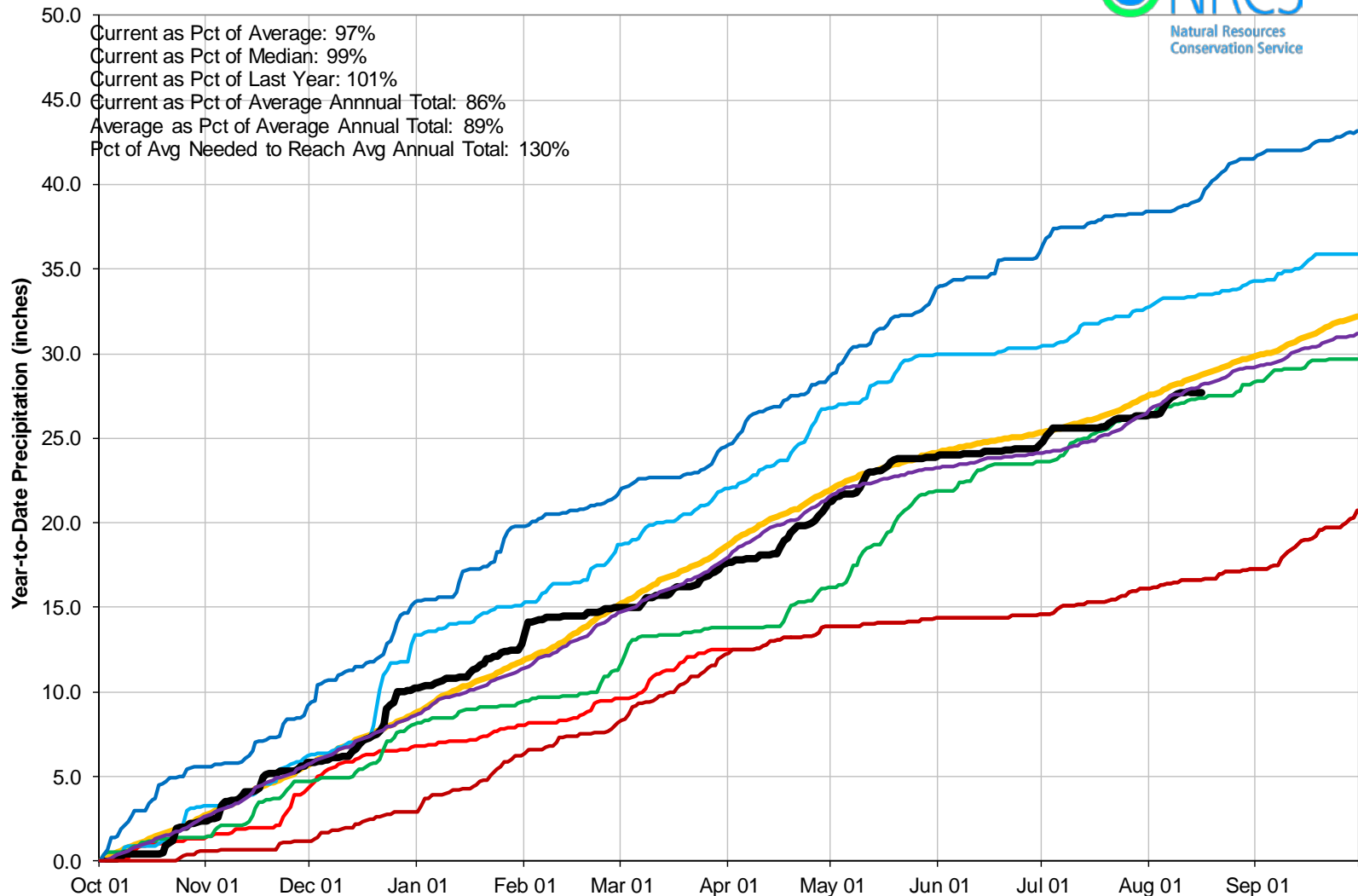
United States Department of Agriculture

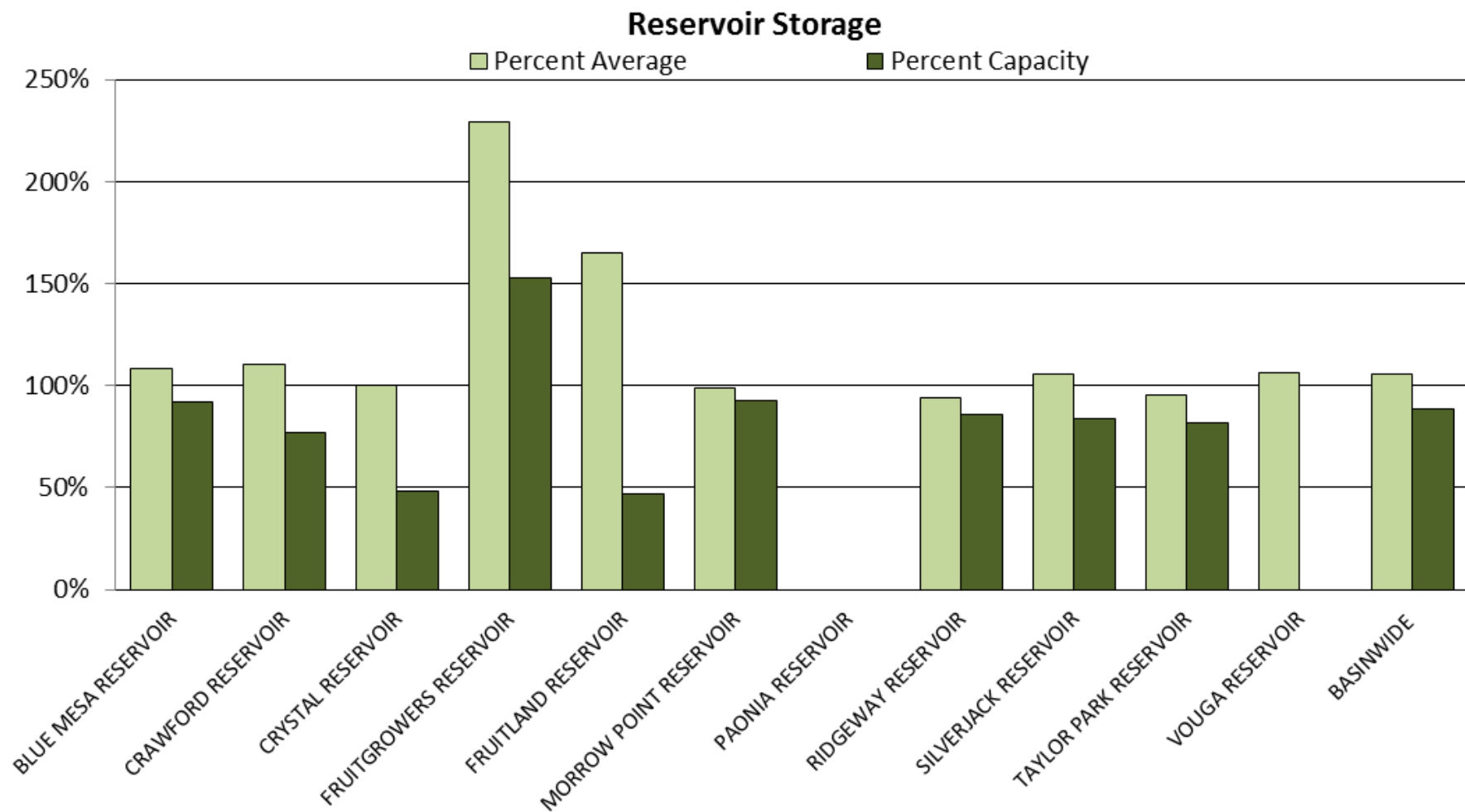
Natural Resources Conservation Service



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

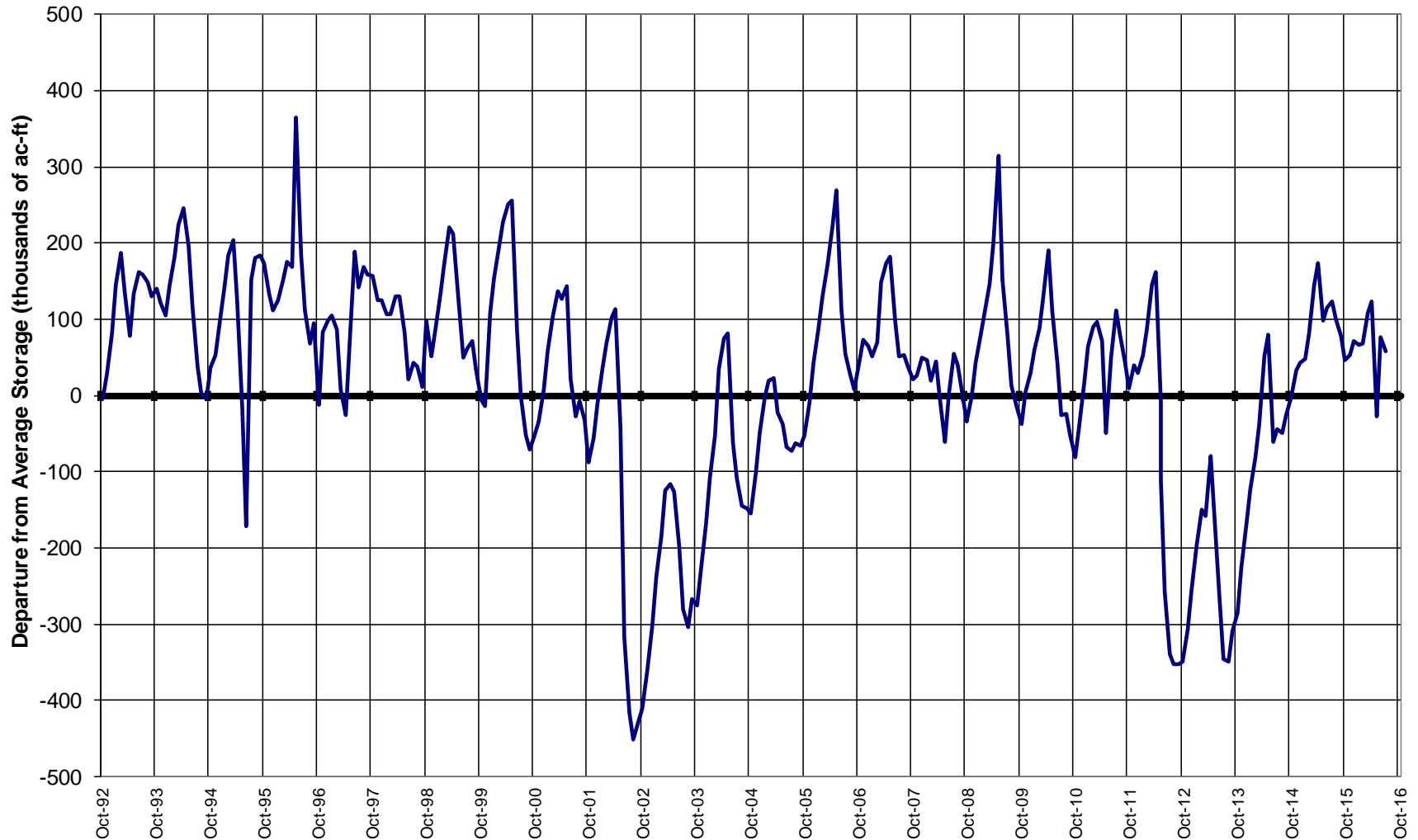
Based on Provisional SNOTEL data as of Aug 16, 2016





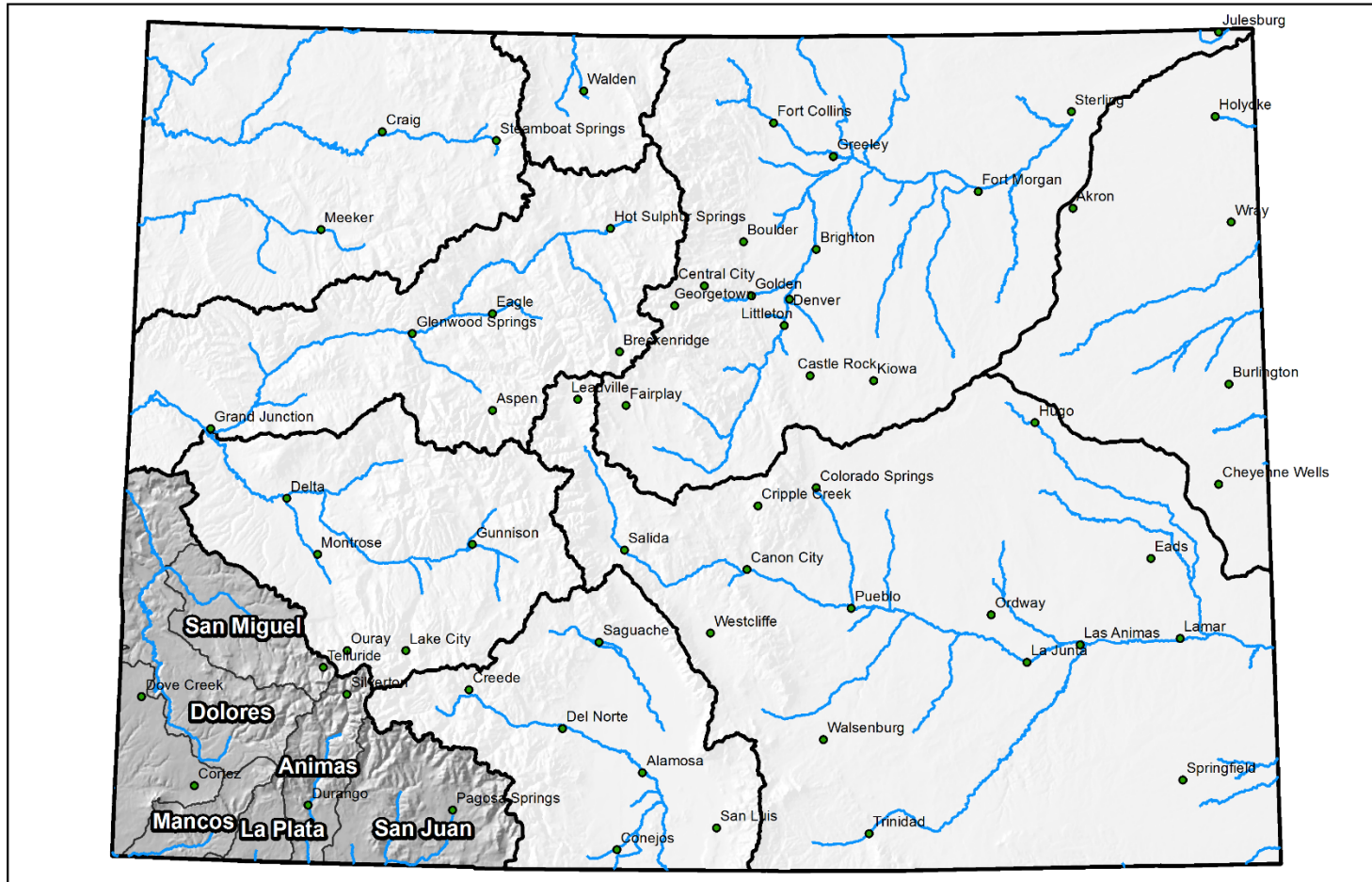


GUNNISON RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

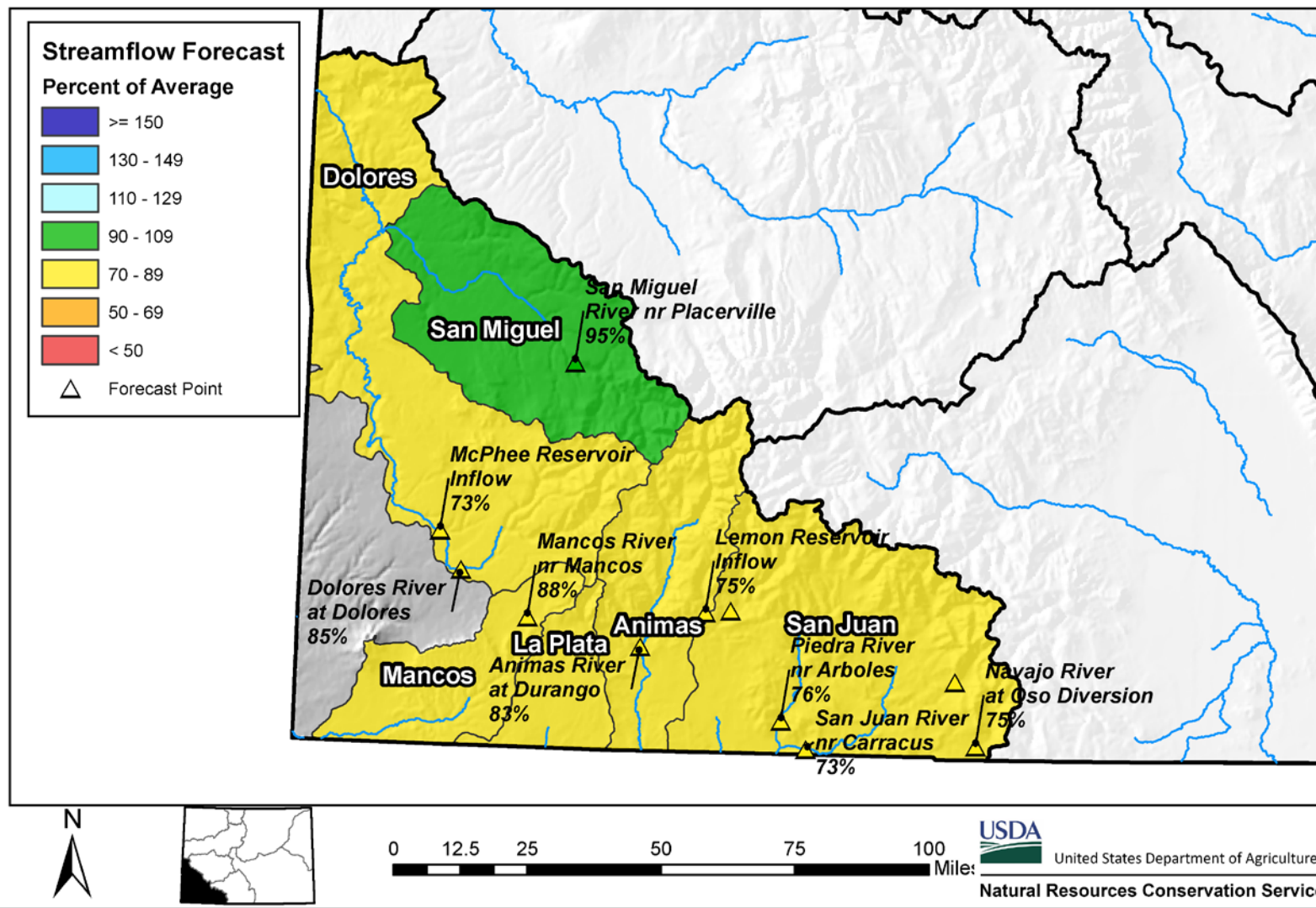
San Miguel, Dolores, Animas, and San Juan River Basins



0 25 50 100 150 200 Miles

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

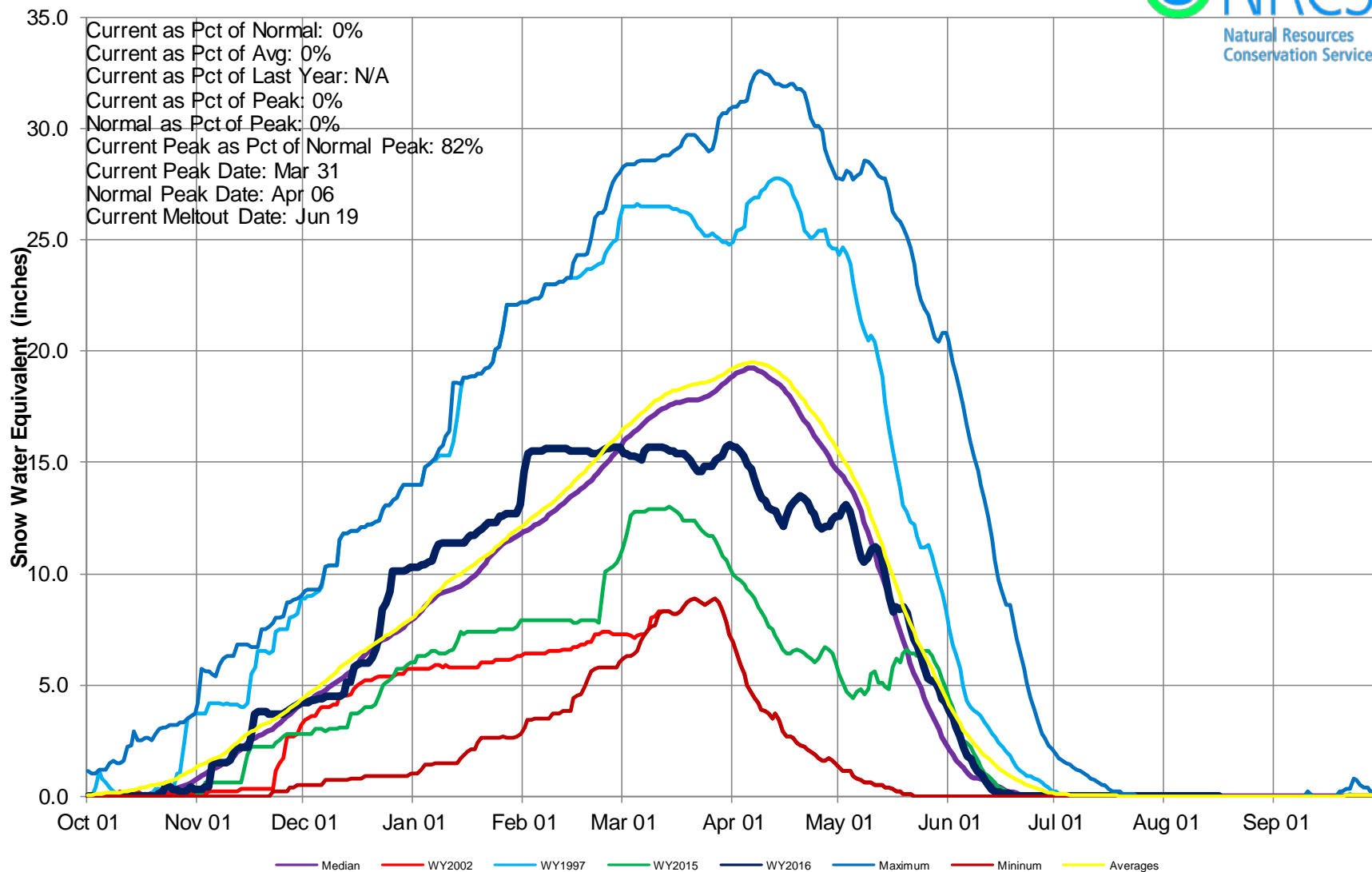
June 1, 2016





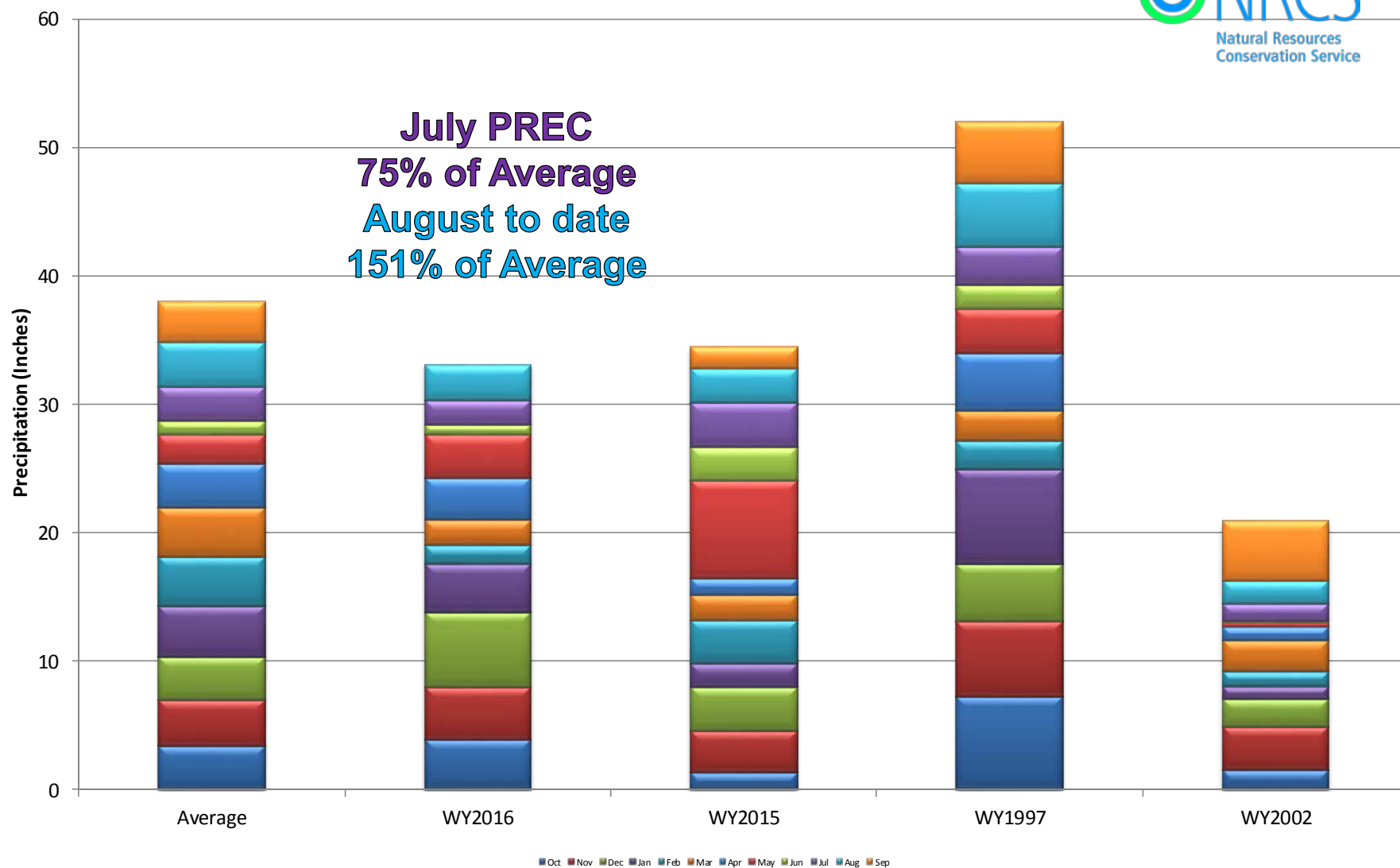
San Miguel, Dolores, Animas and San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Aug 16, 2016





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

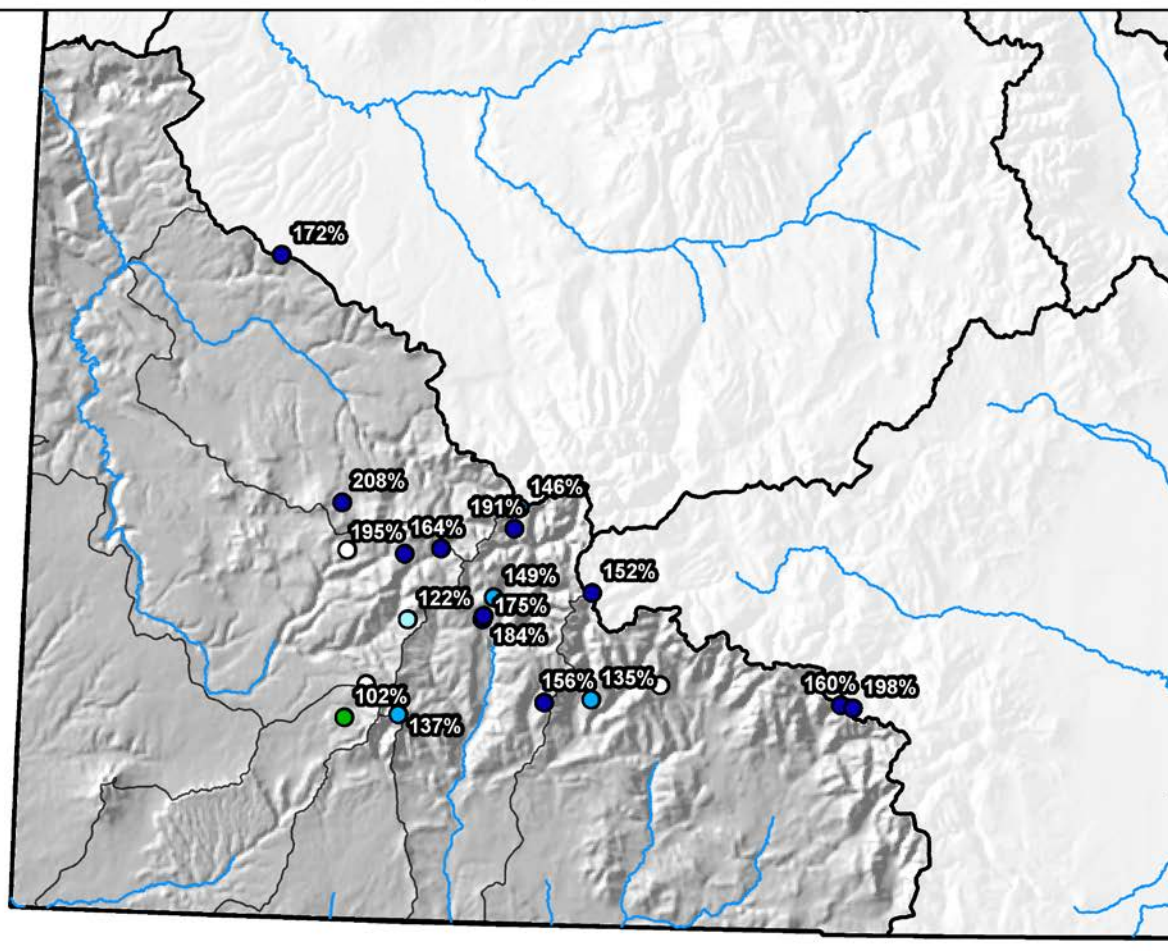


San Miguel, Dolores, Animas, and San Juan River Basins Month to Date Precipitation Summary

Current as of Aug 16, 2016

MTD Precipitation Percent of Average

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

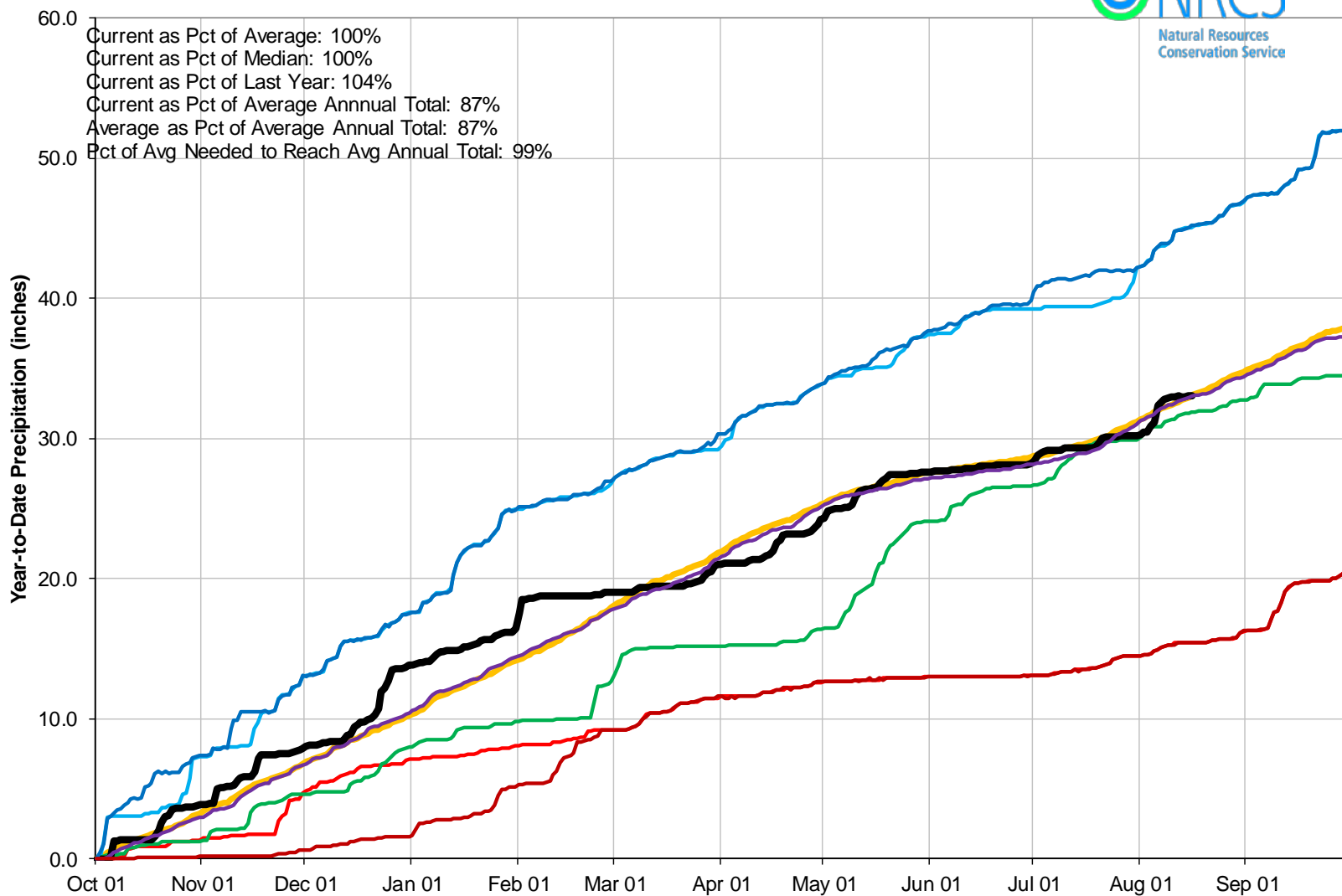


0 10 20 40 60 80 Miles

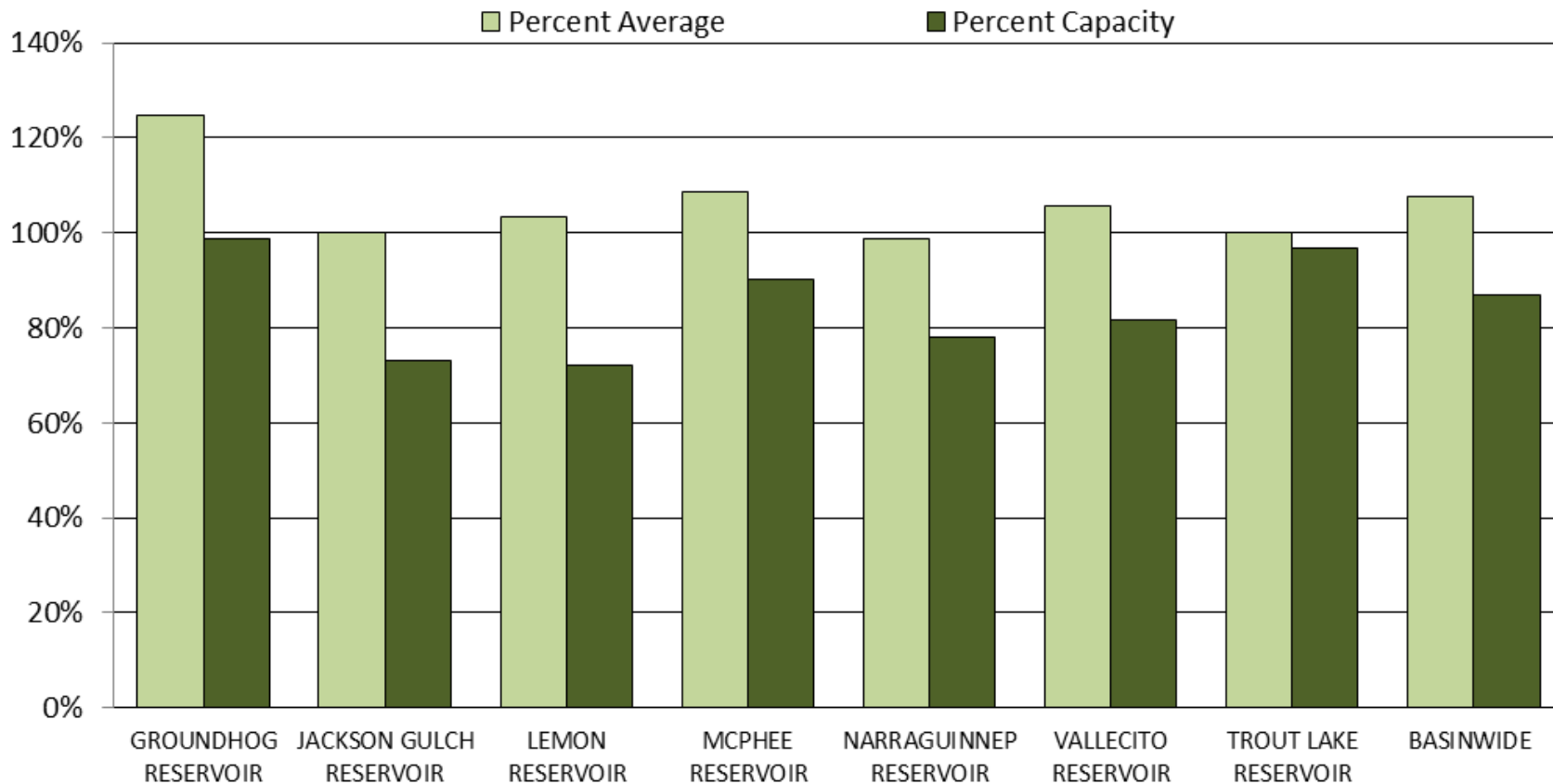


San Miguel, Dolores, Animas & San Juan River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016



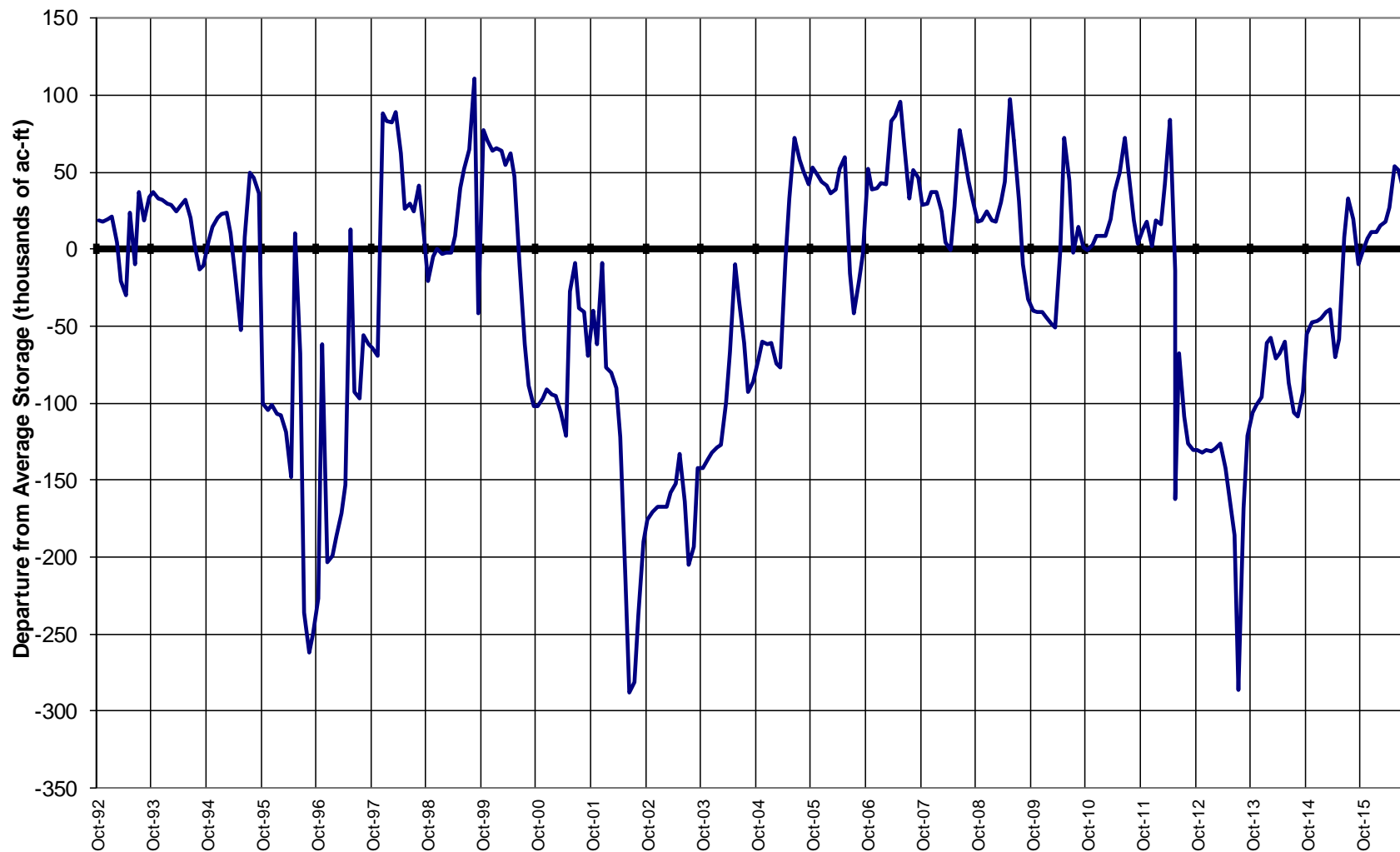
Reservoir Storage





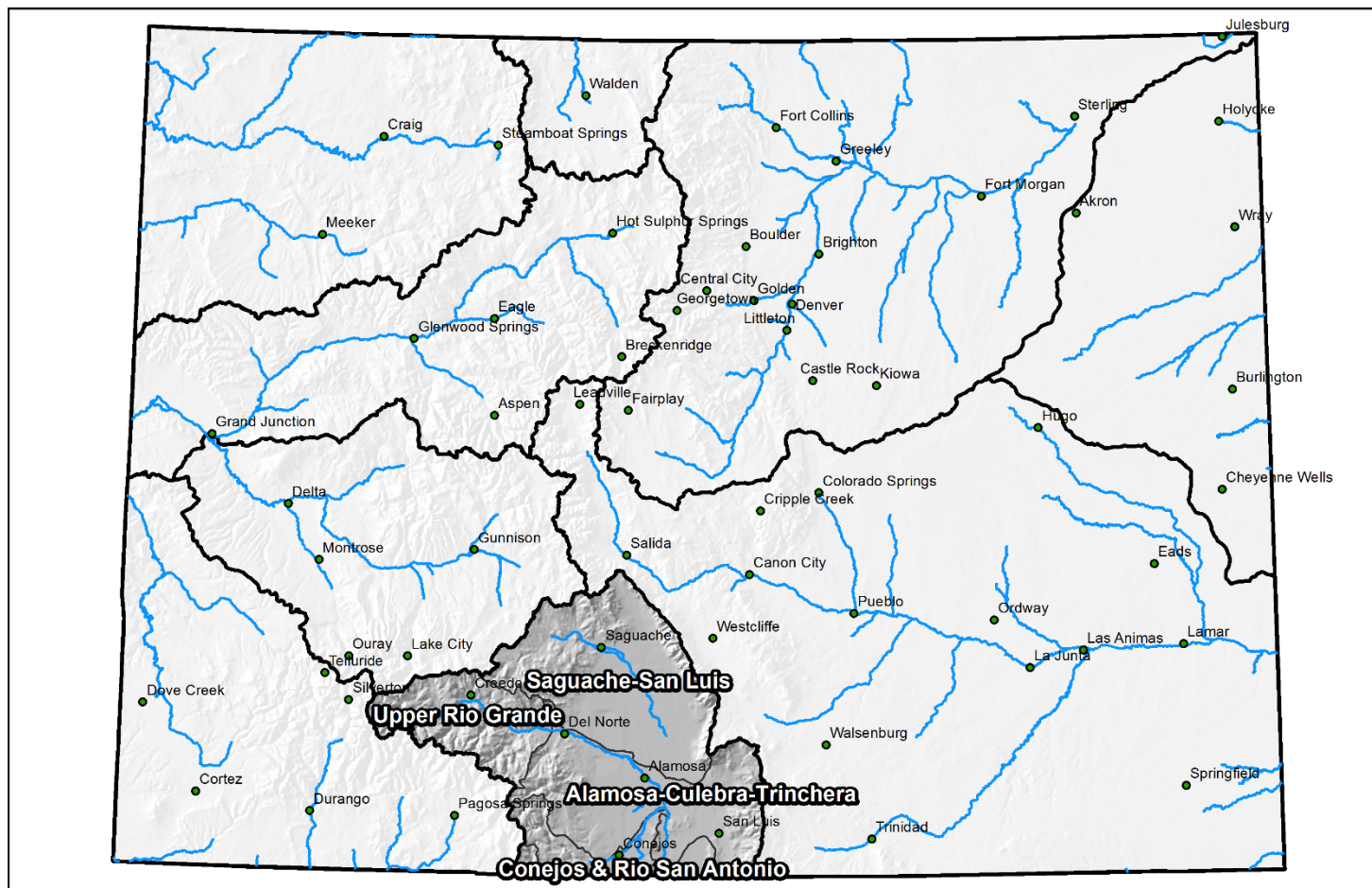
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

Reservoir Storage
Departure from Average



Major Basin Summary

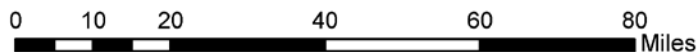
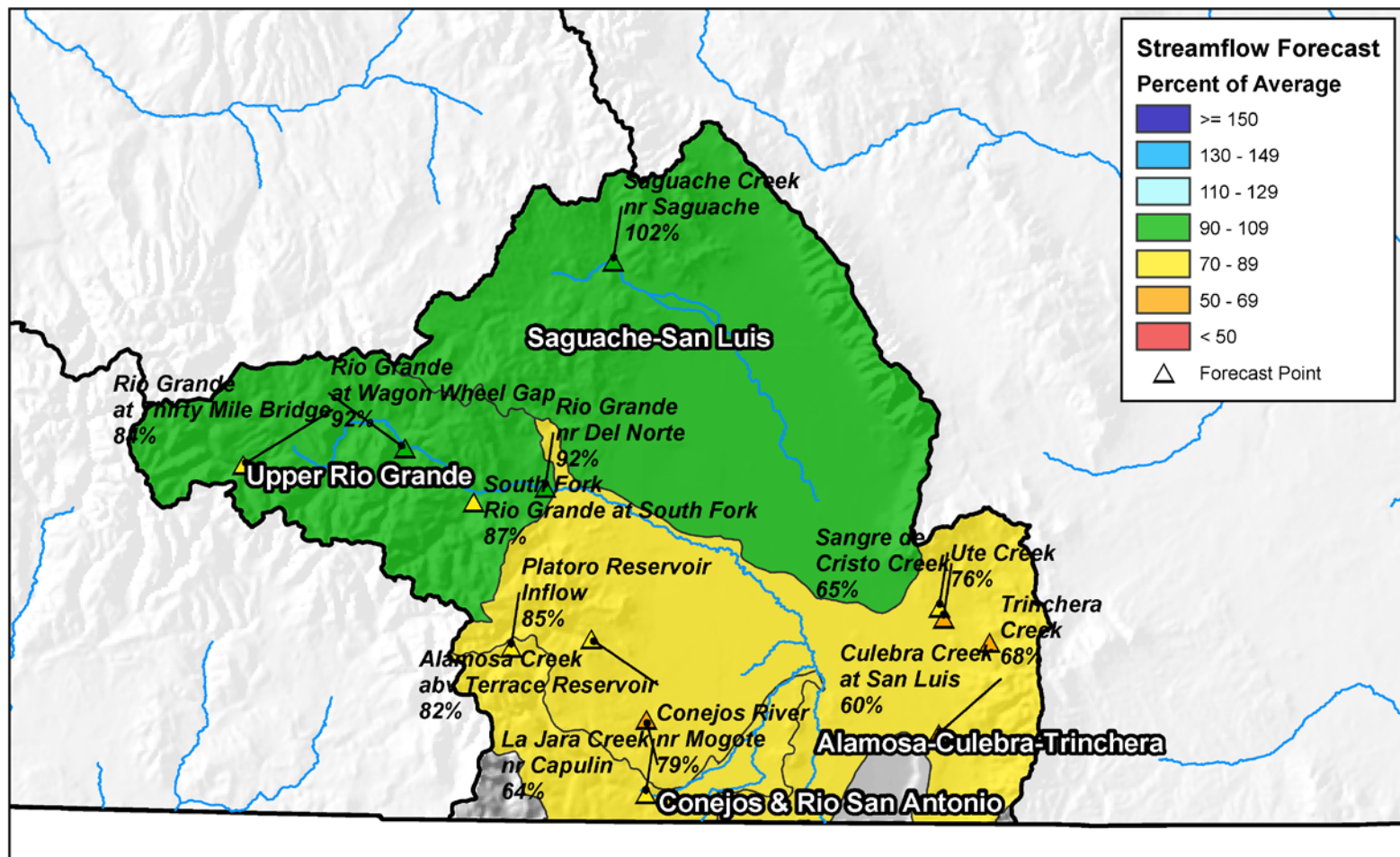
Upper Rio Grande River Basin



0 25 50 100 150 200 Miles

Upper Rio Grande River Basin Streamflow Forecast Summary

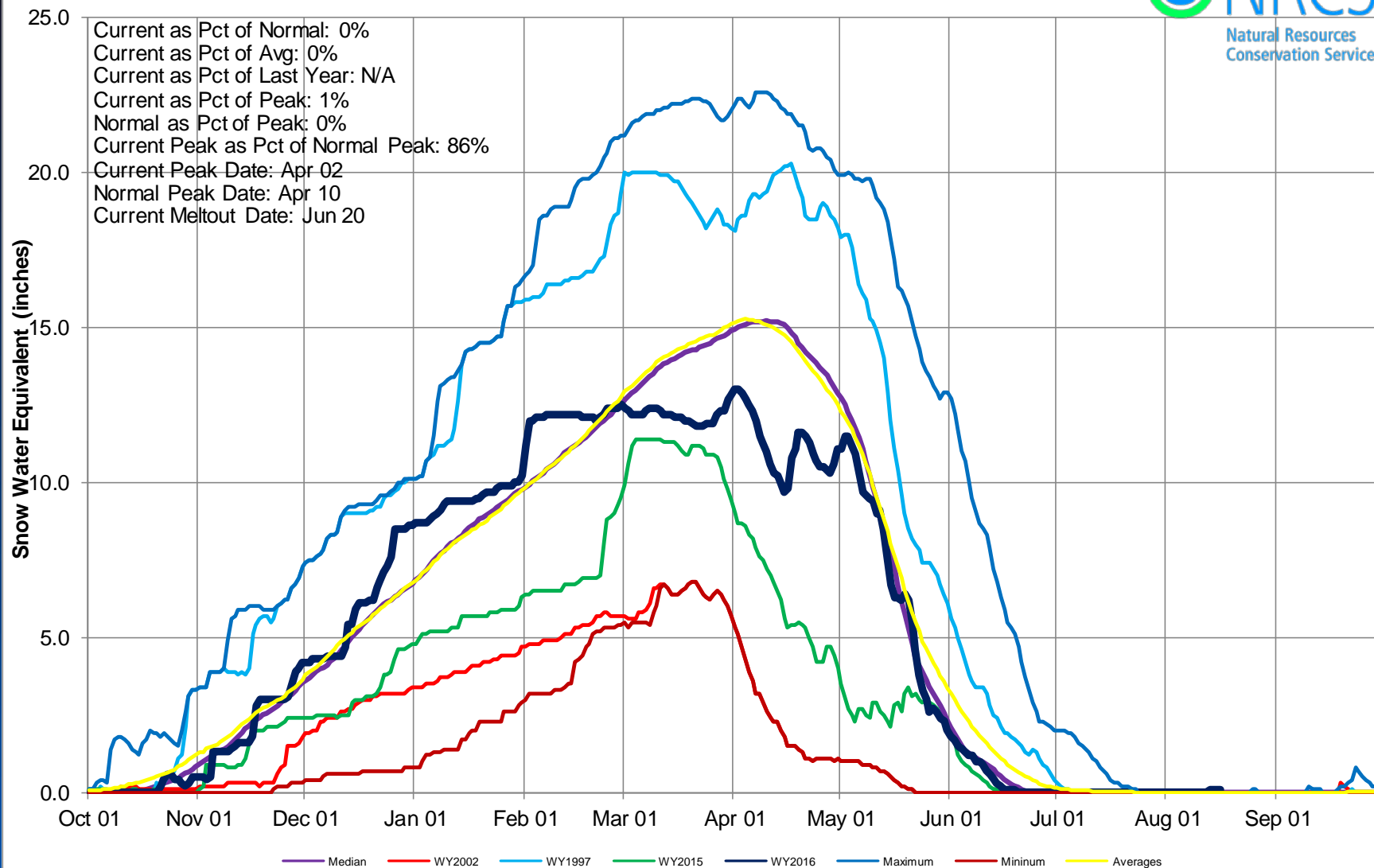
June 1, 2016





Upper Rio Grande Basin High/Low Snowpack Summary

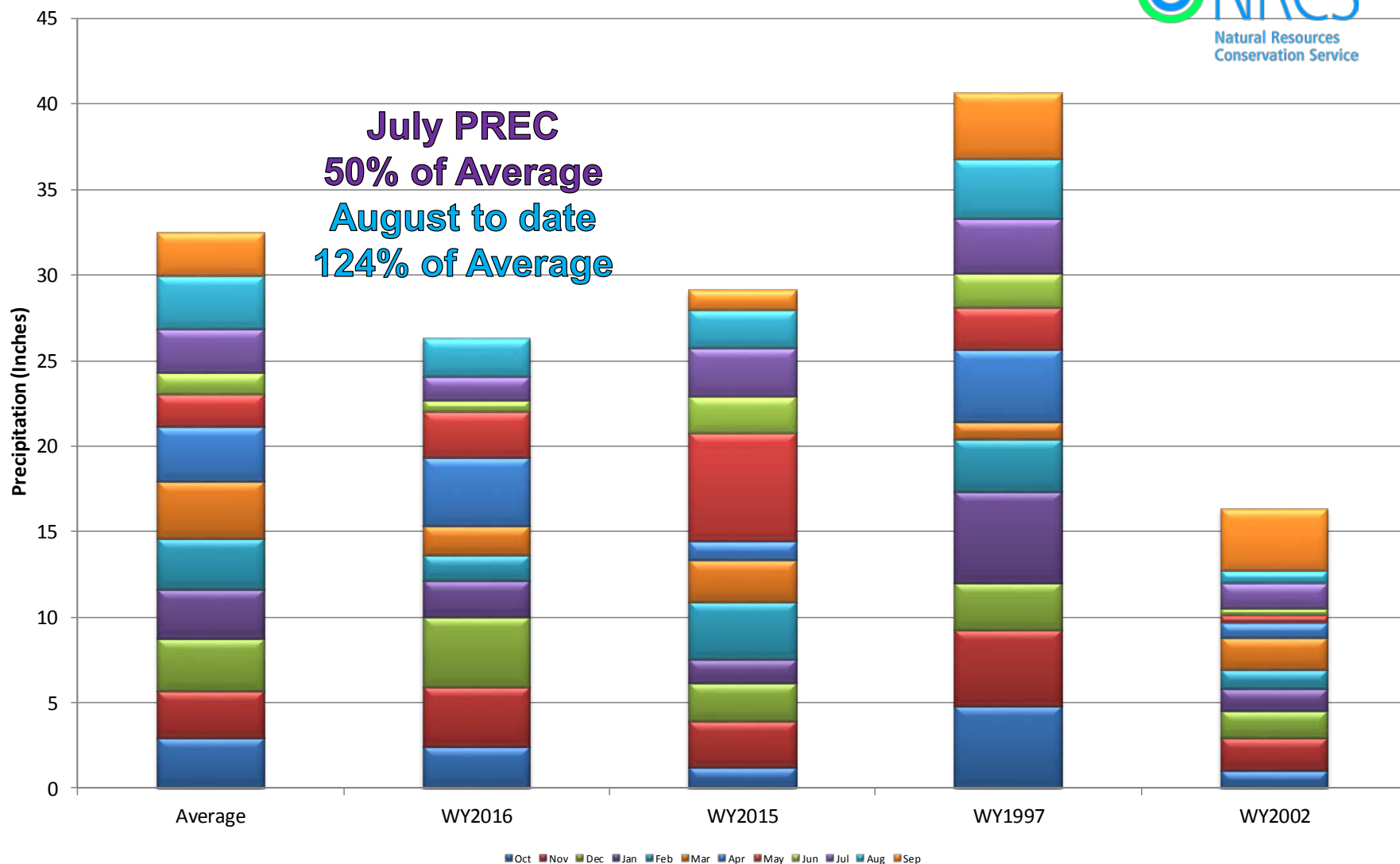
Based on Provisional SNOTEL data as of Aug 16, 2016





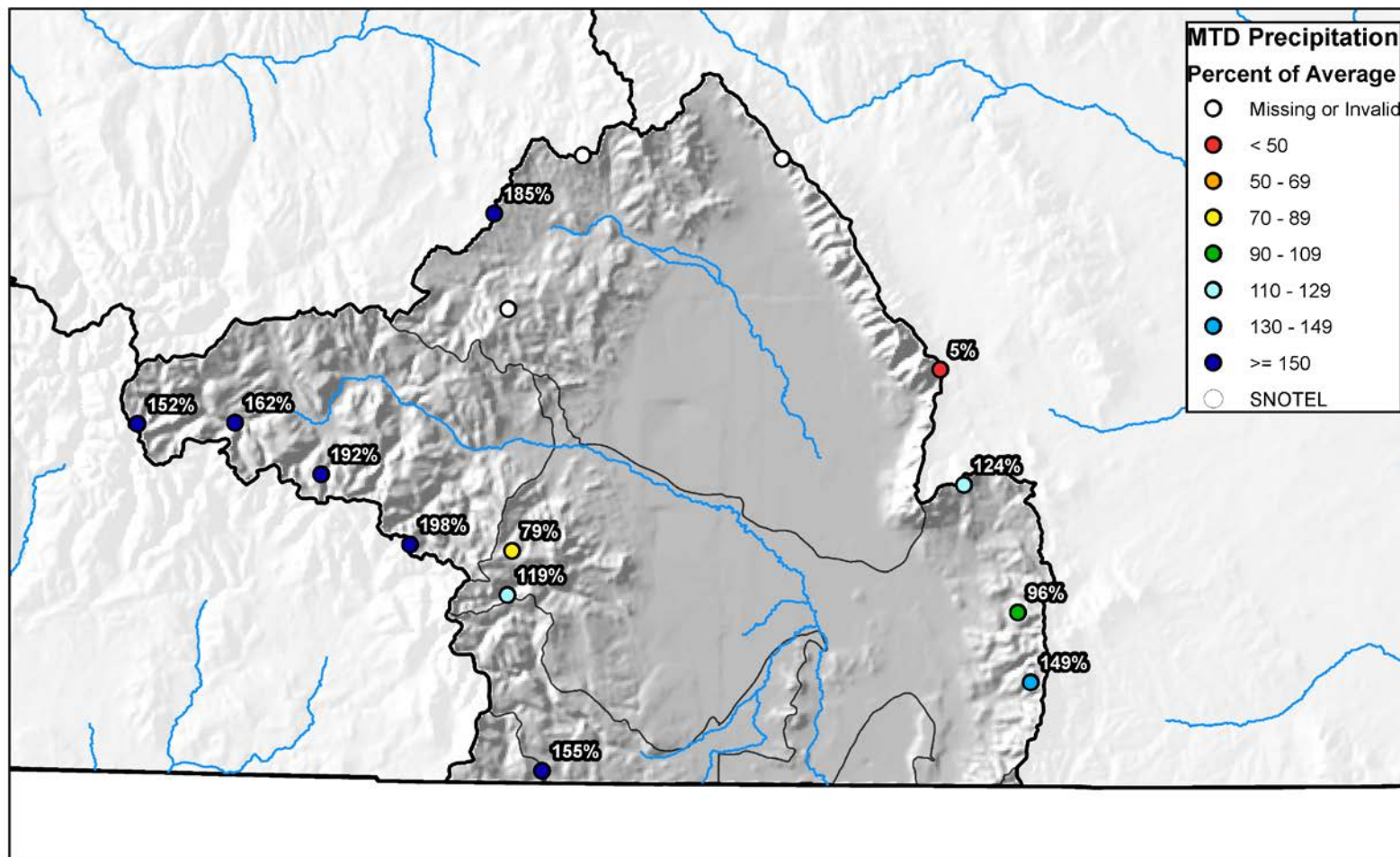
Upper Rio Grande Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016



Upper Rio Grande River Basin Month to Date Precipitation Summary

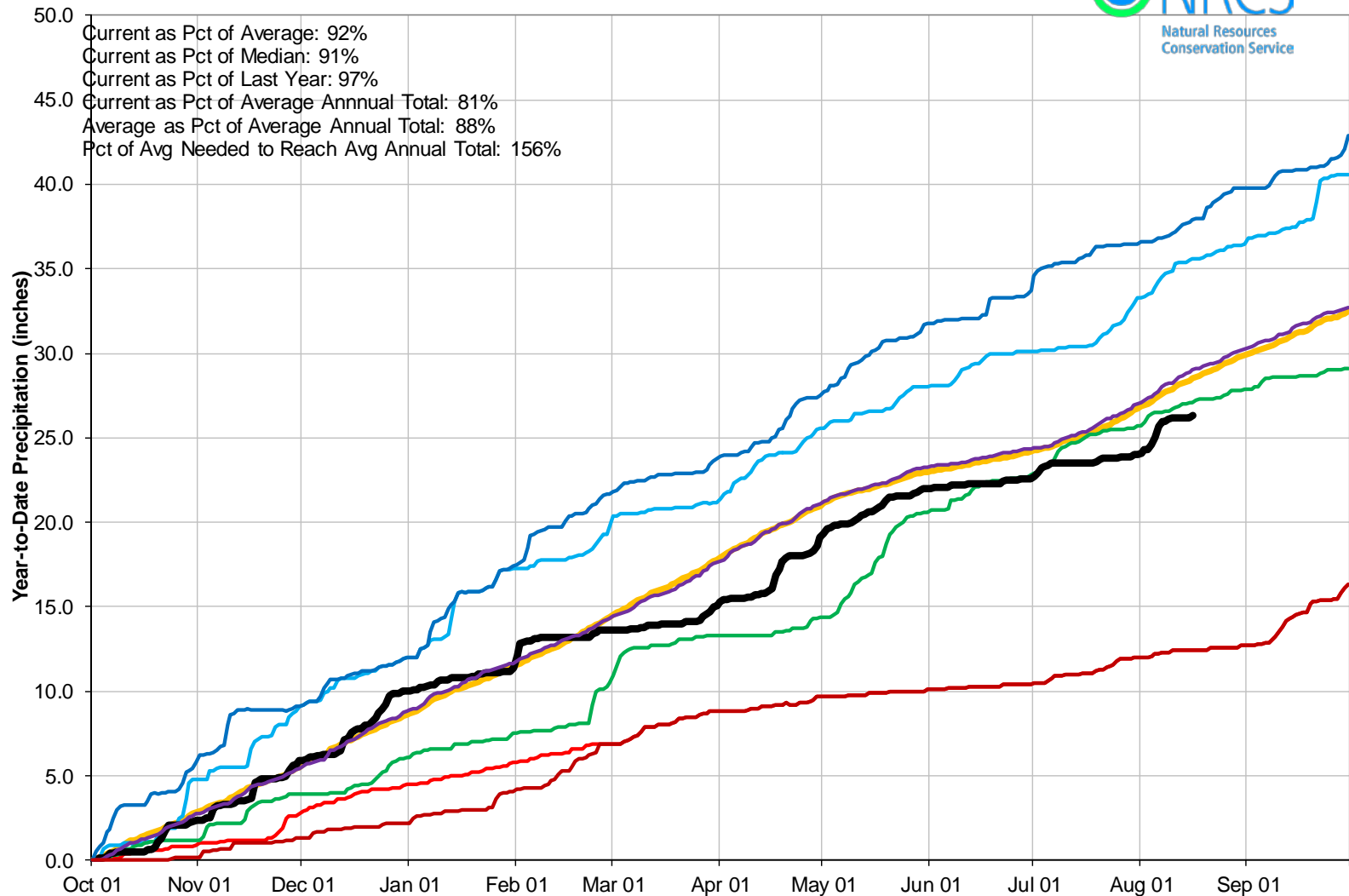
Current as of Aug 16, 2016



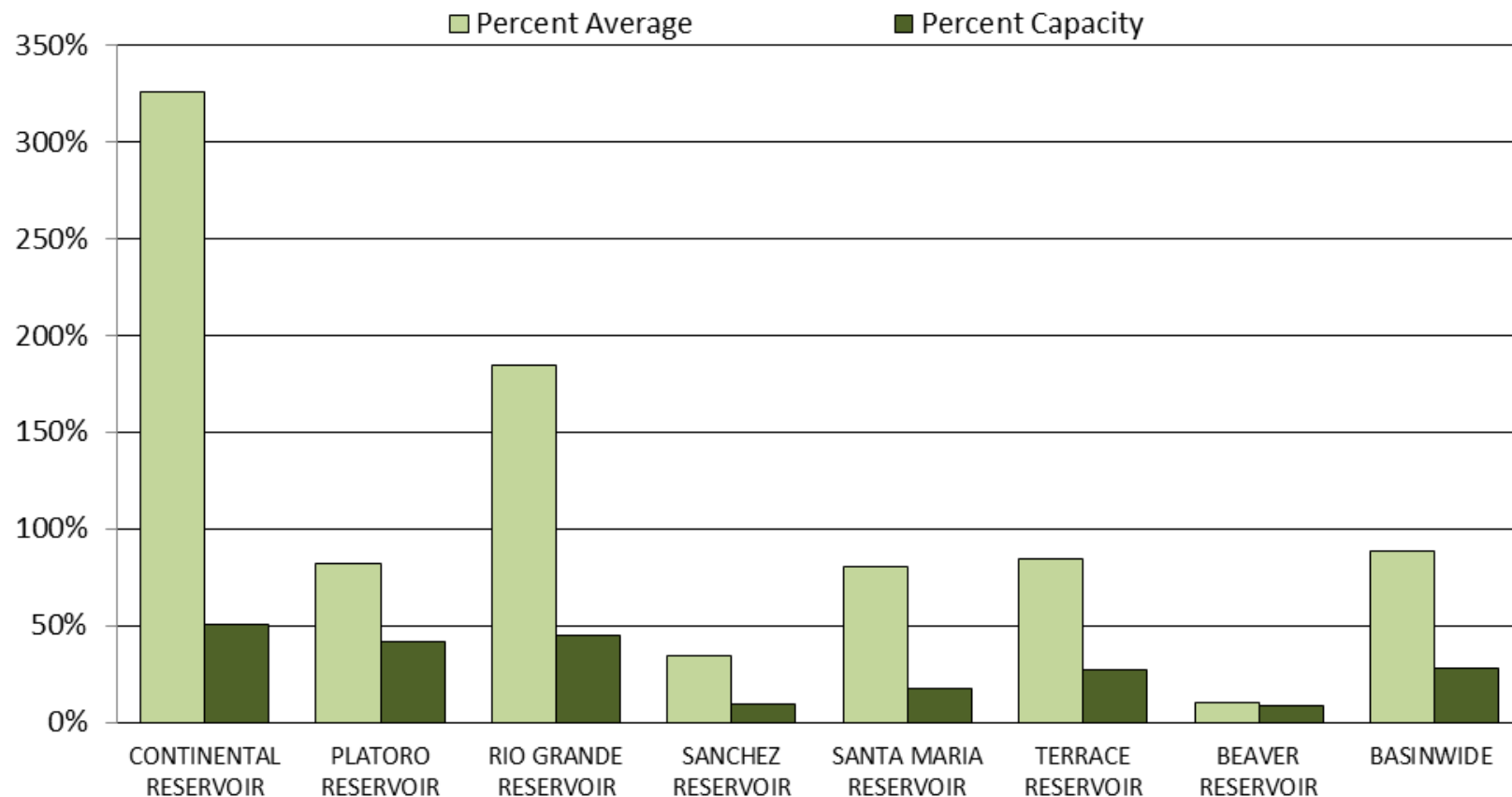


Upper Rio Grande Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016

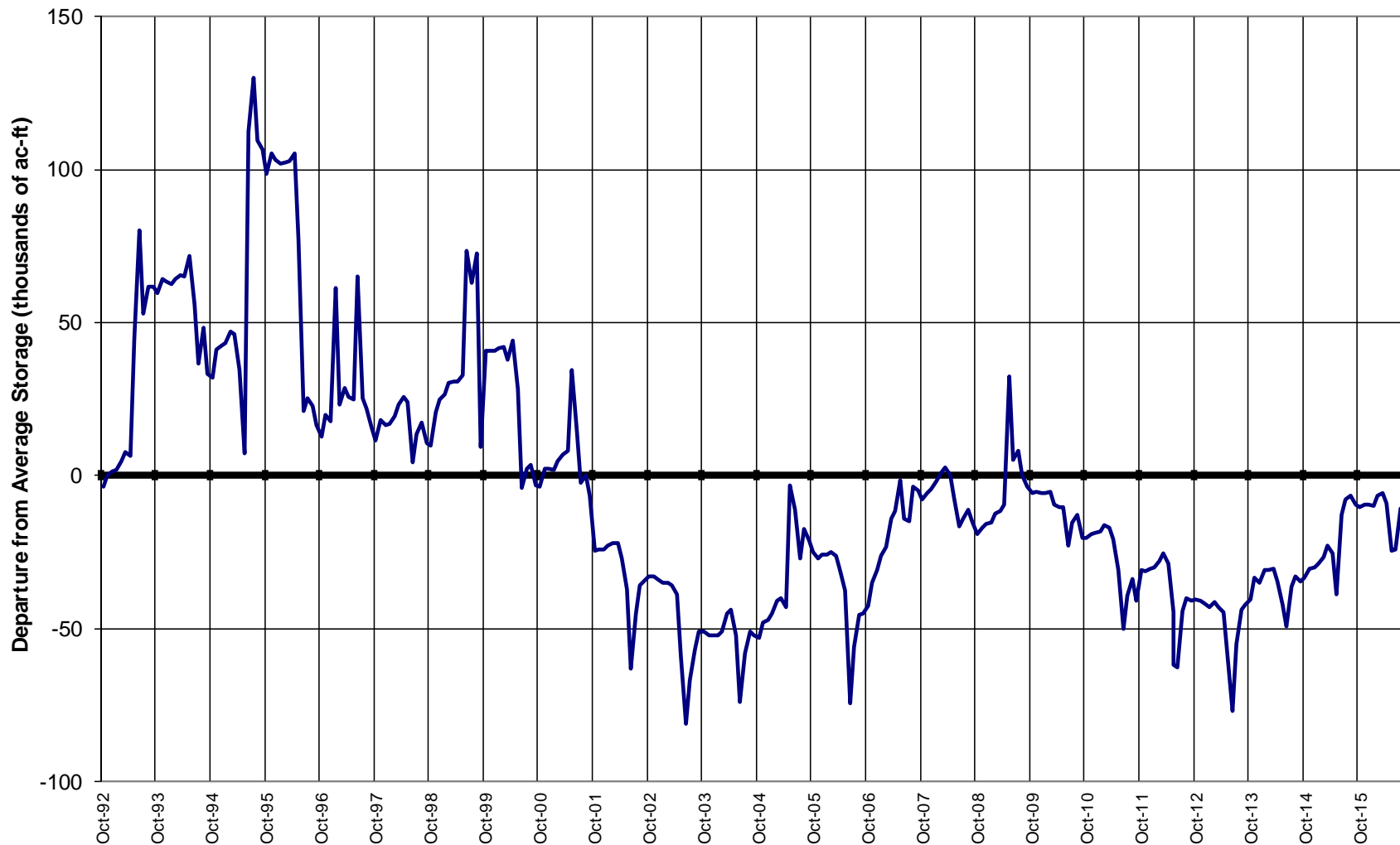


Reservoir Storage



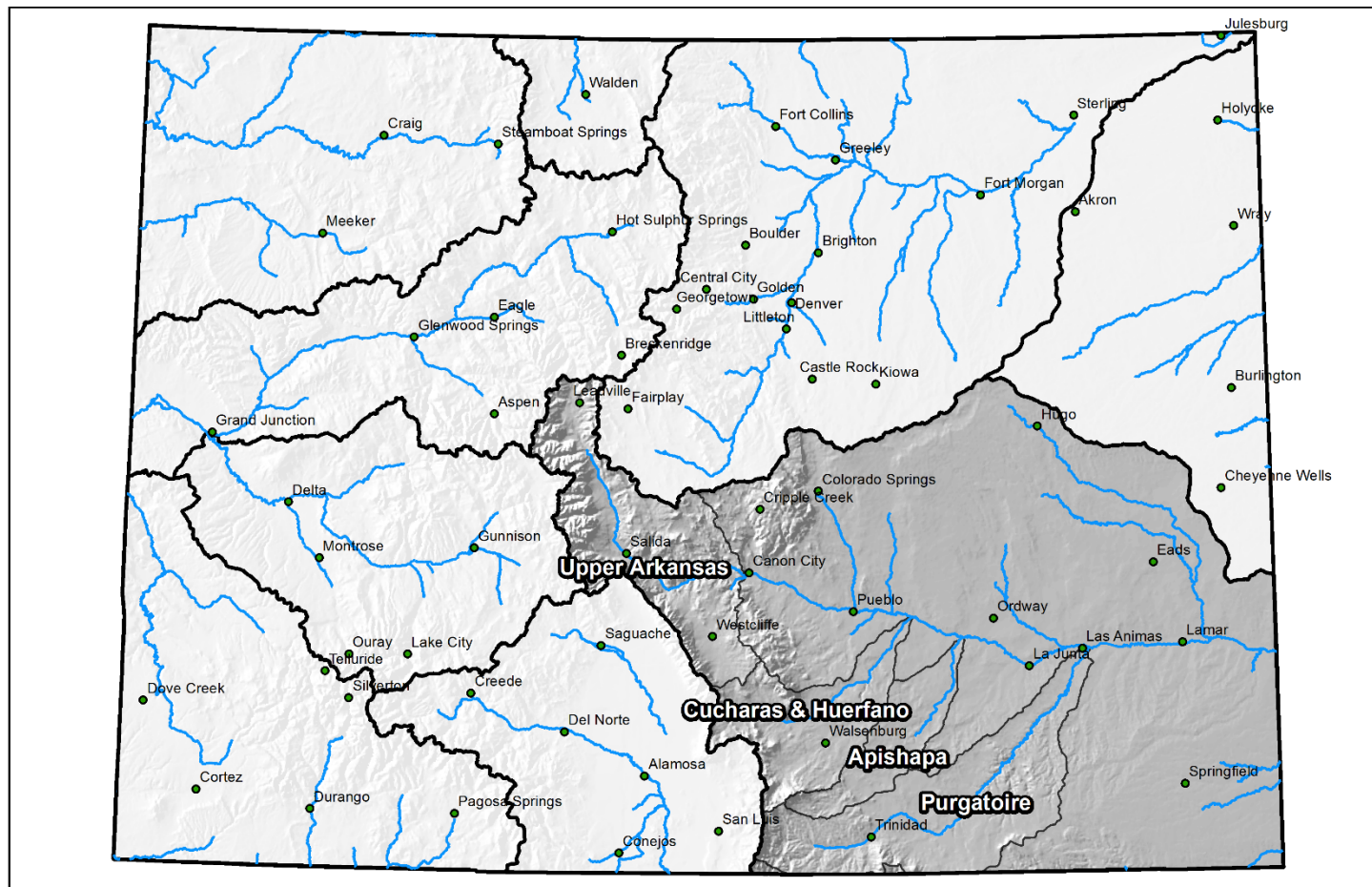


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



Major Basin Summary

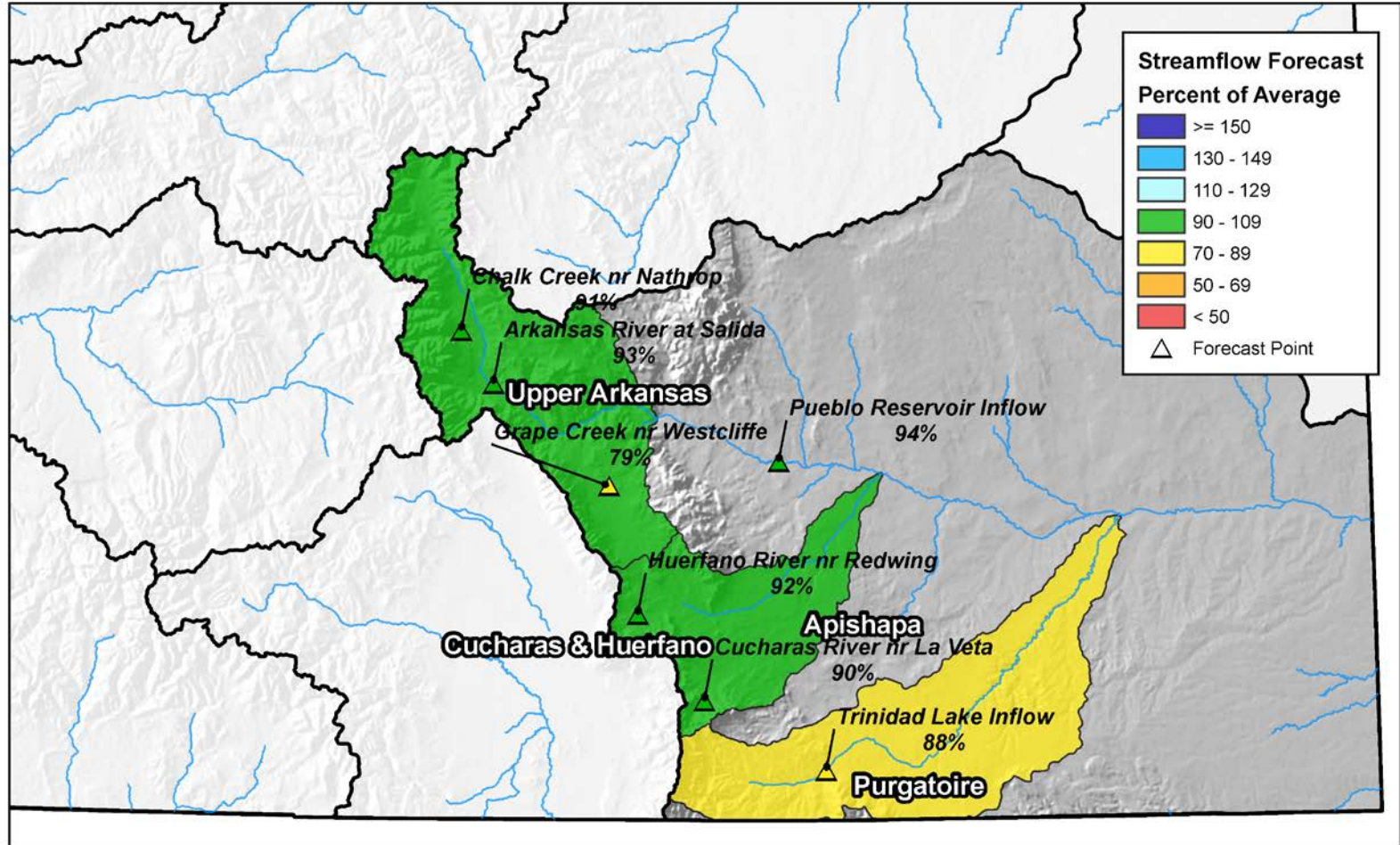
Arkansas River Basin



0 25 50 100 150 200 Miles

Arkansas River Basin Streamflow Forecast Summary

June 1, 2016

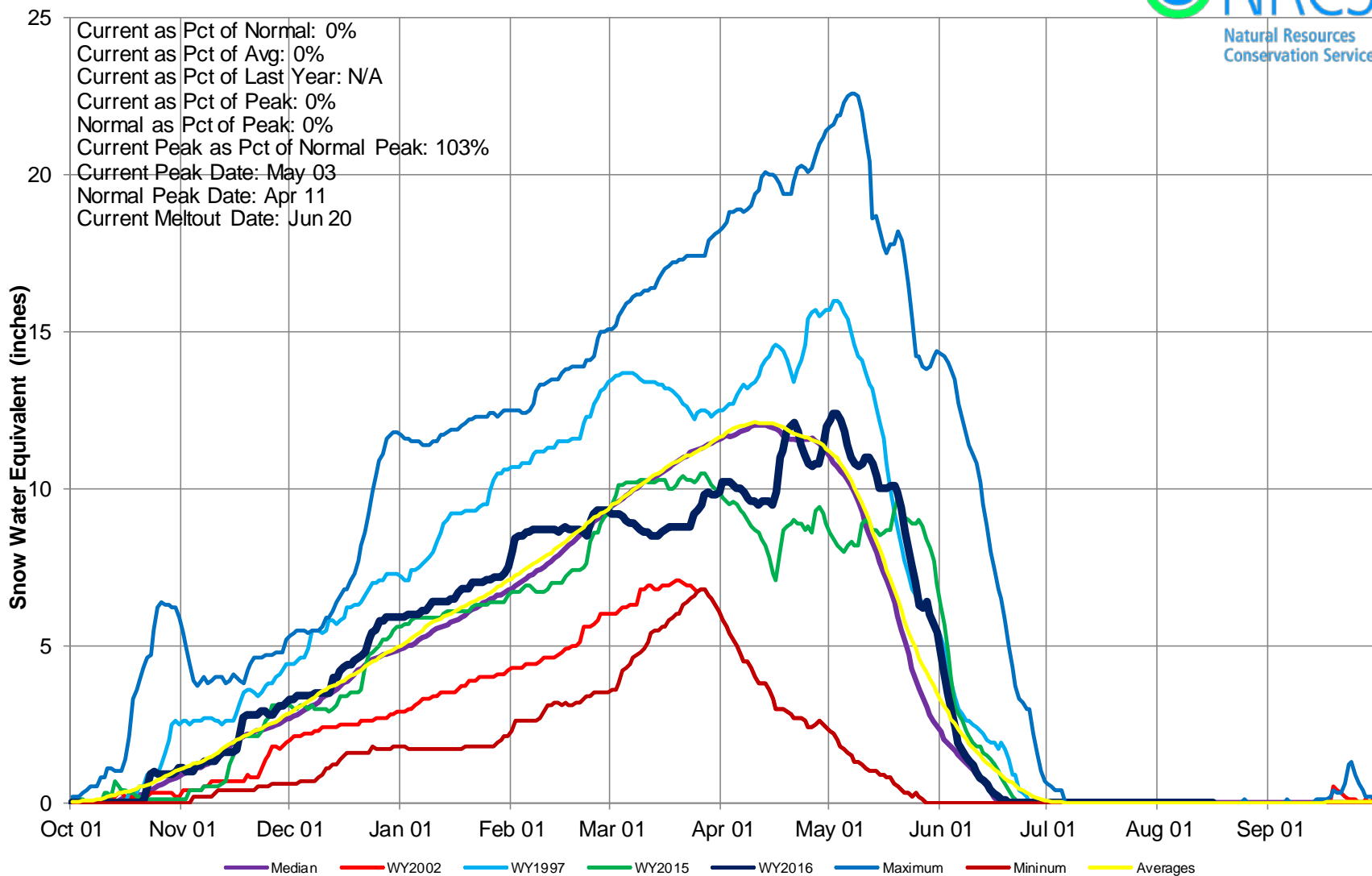


0 10 20 40 60 80 Miles



Arkansas River Basin High/Low Snowpack Summary

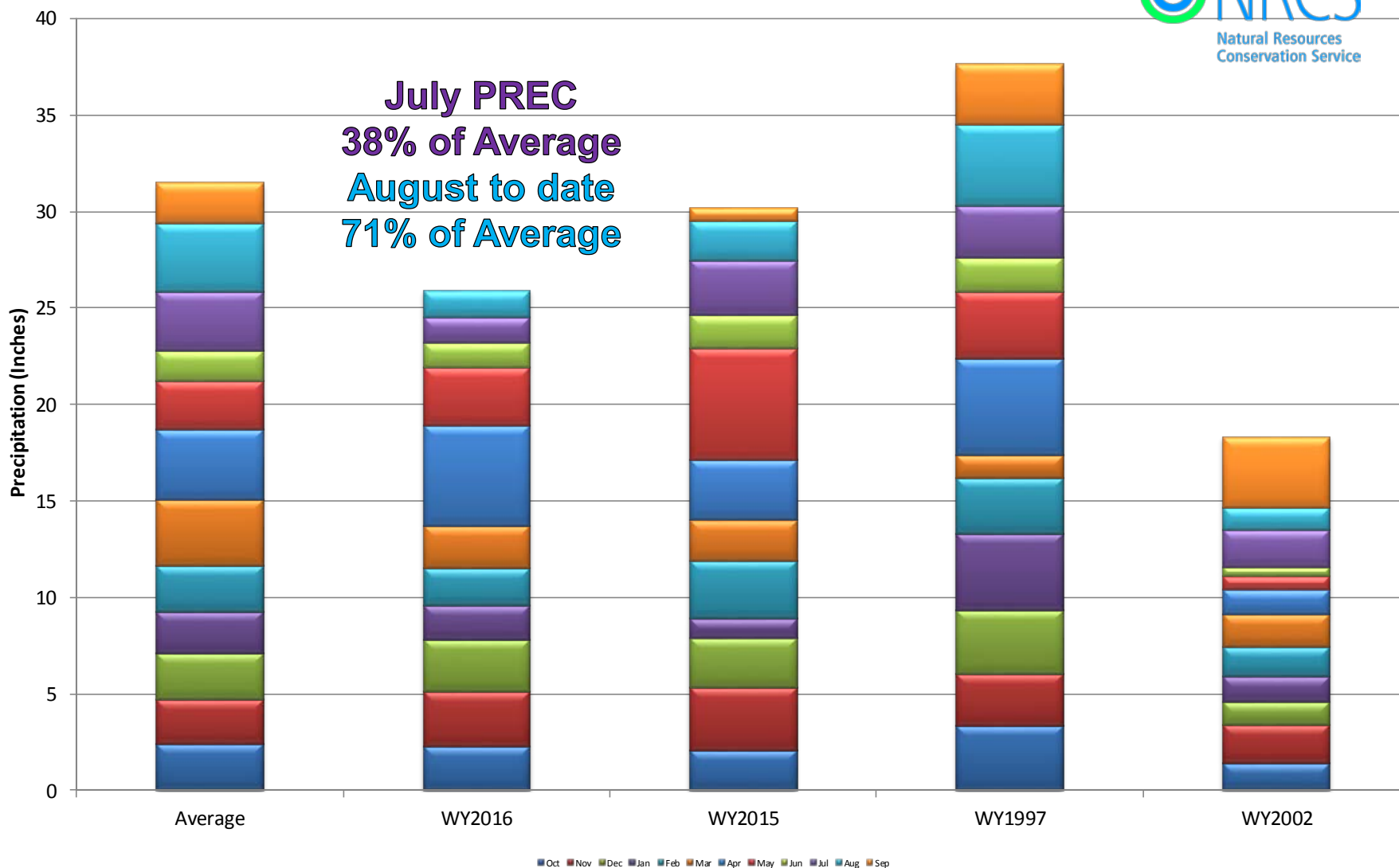
Based on Provisional SNOTEL data as of Aug 16, 2016





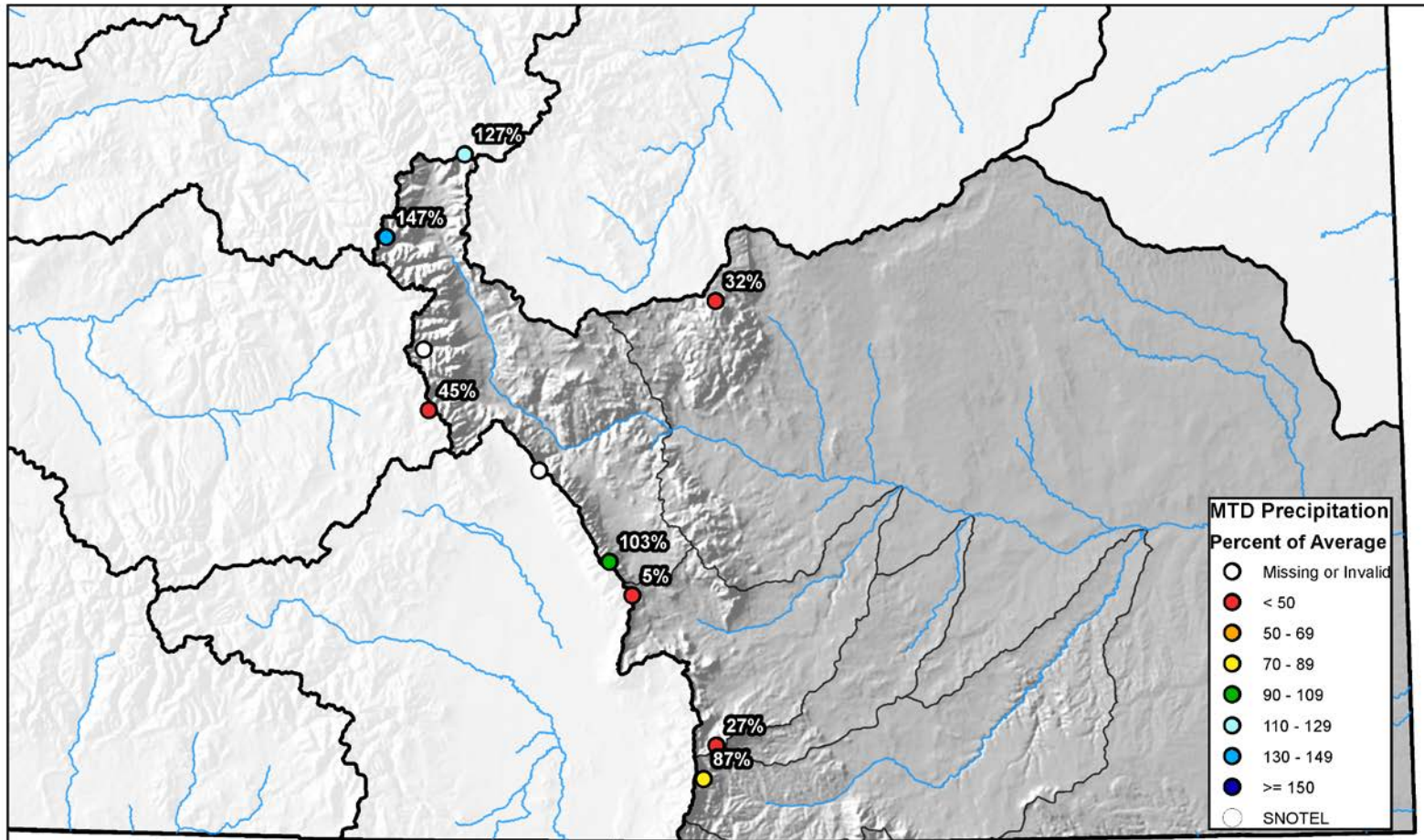
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016



Arkansas River Basin Month to Date Precipitation Summary

Current as of Aug 16, 2016

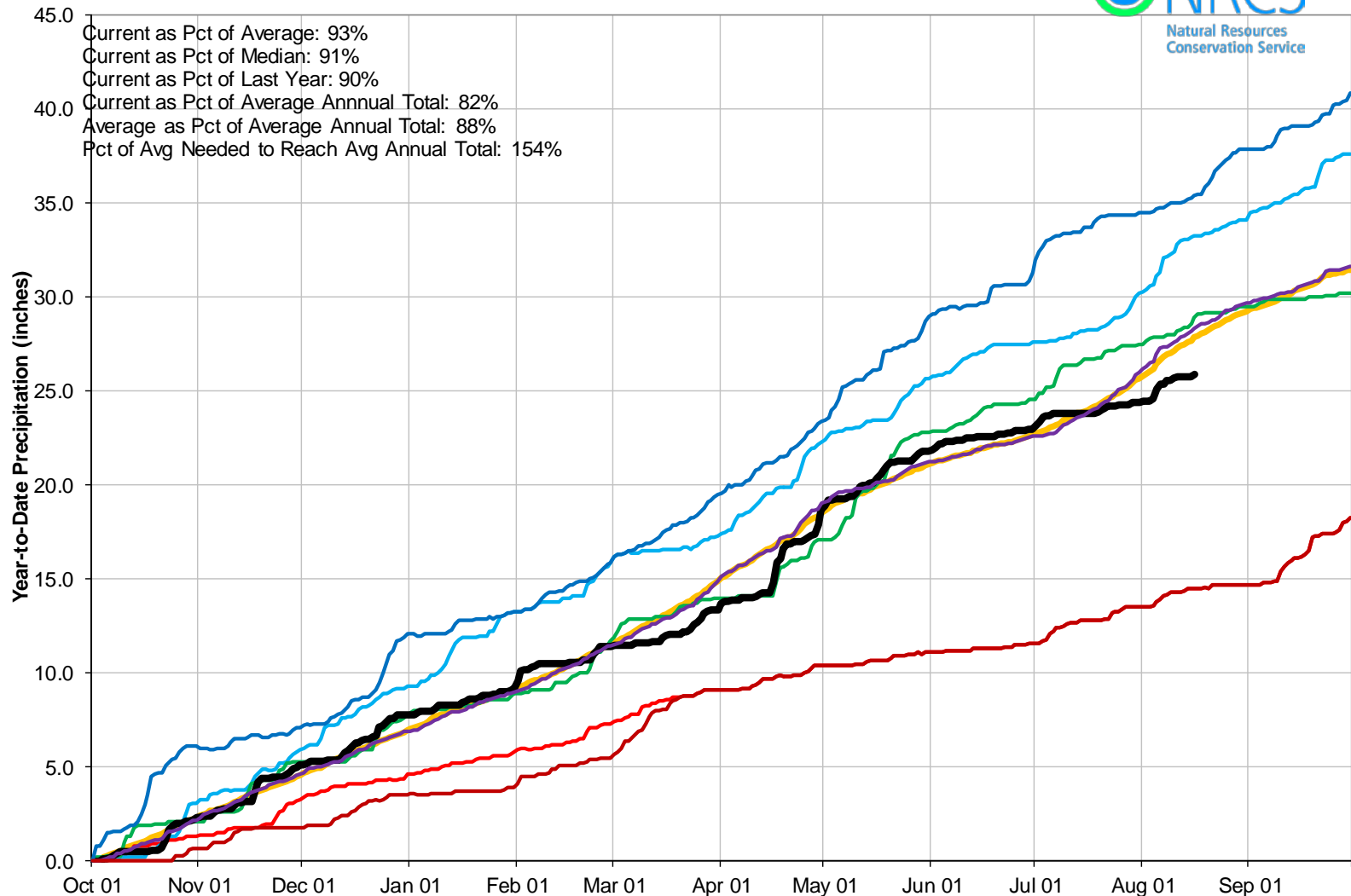


0 10 20 40 60 80 Miles



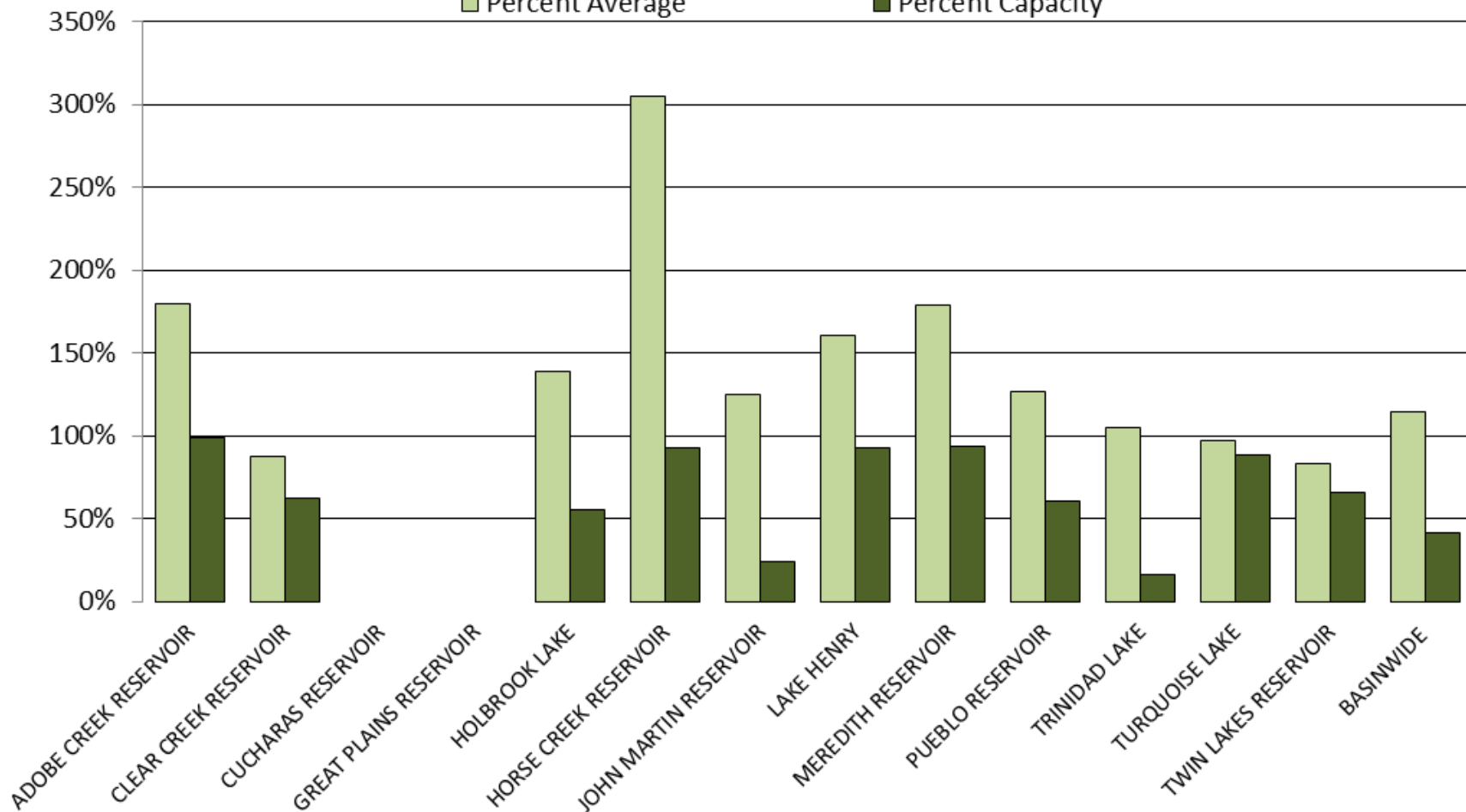
Arkansas River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016



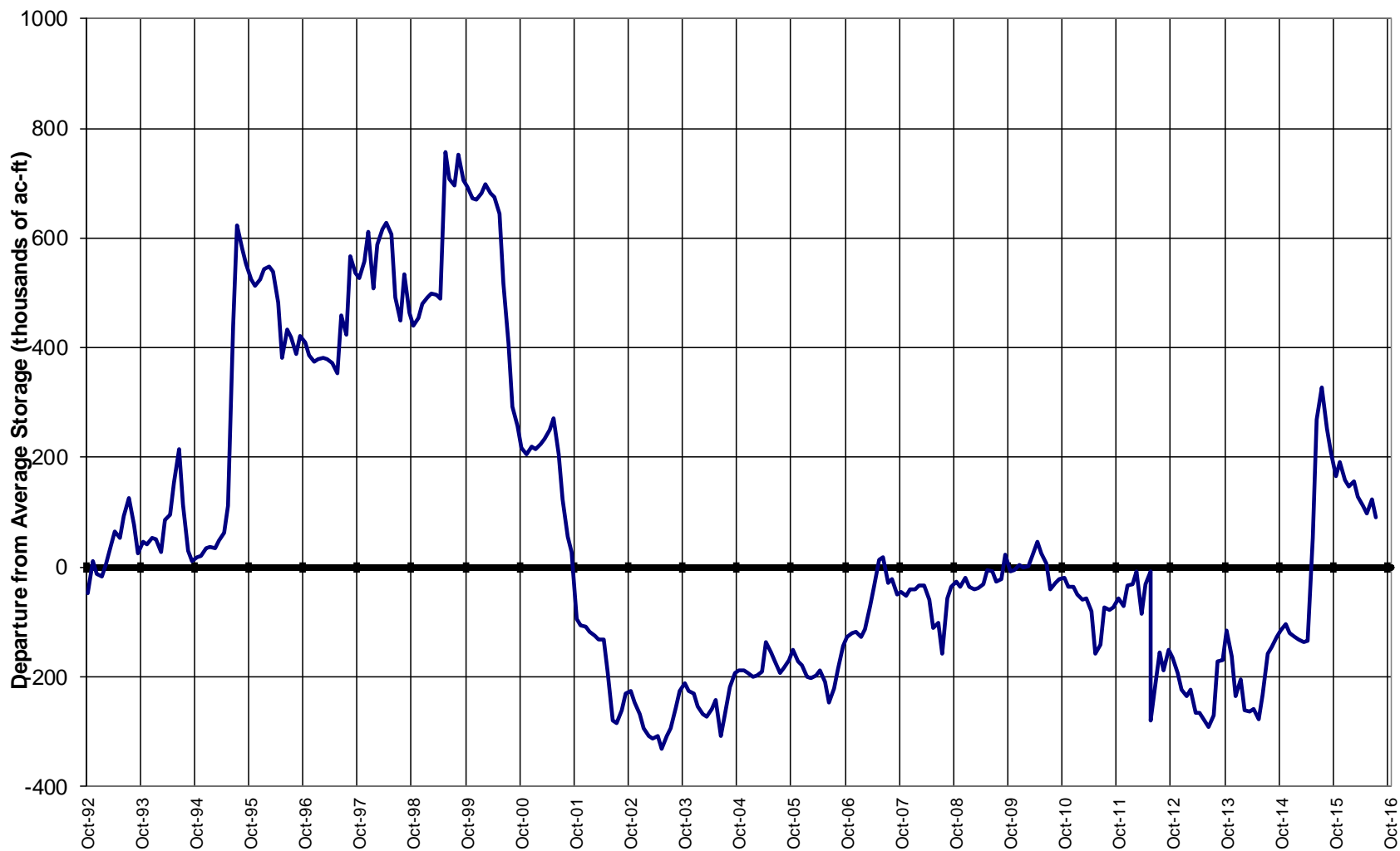
Reservoir Storage

■ Percent Average ■ Percent Capacity



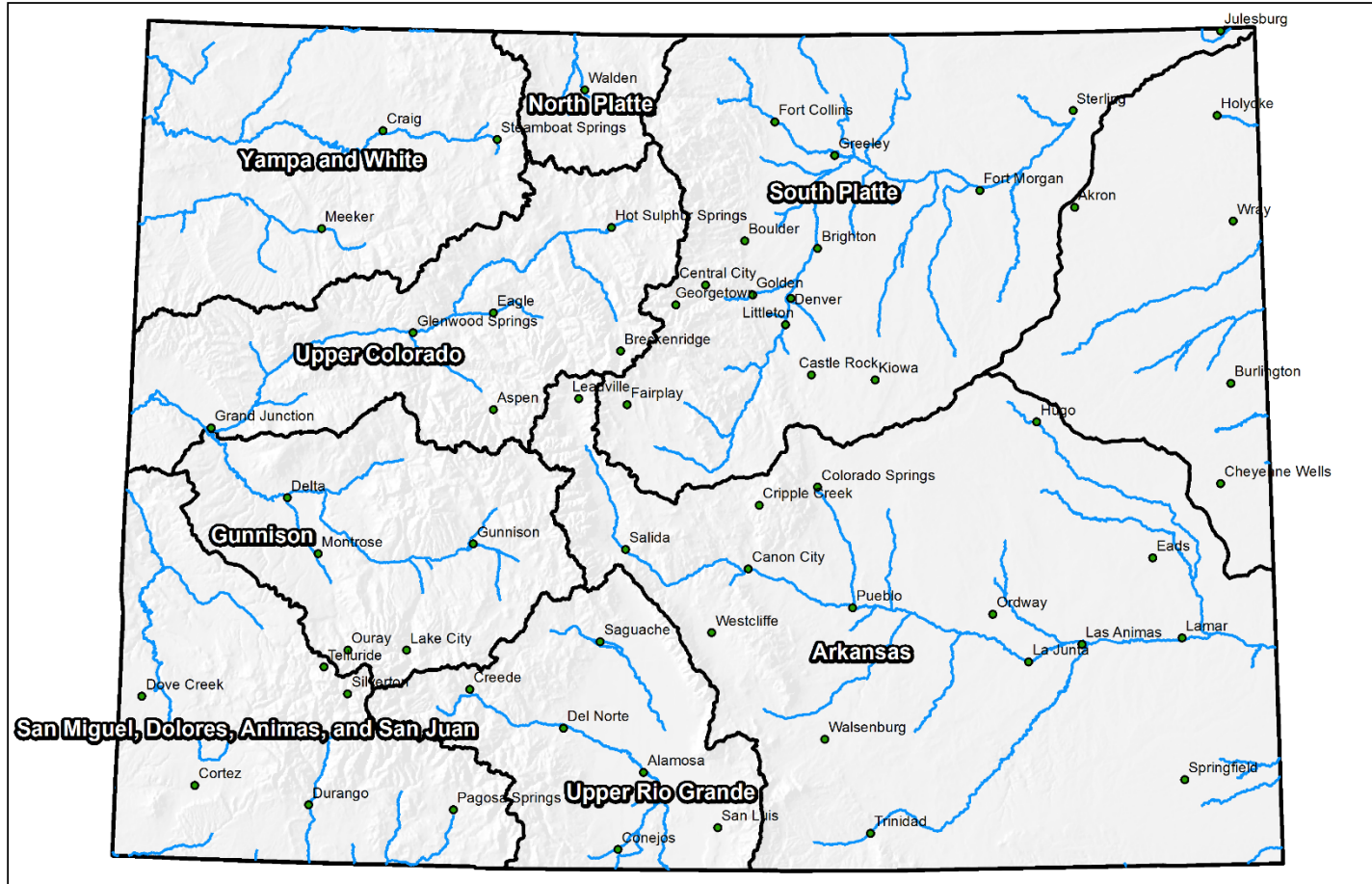


ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



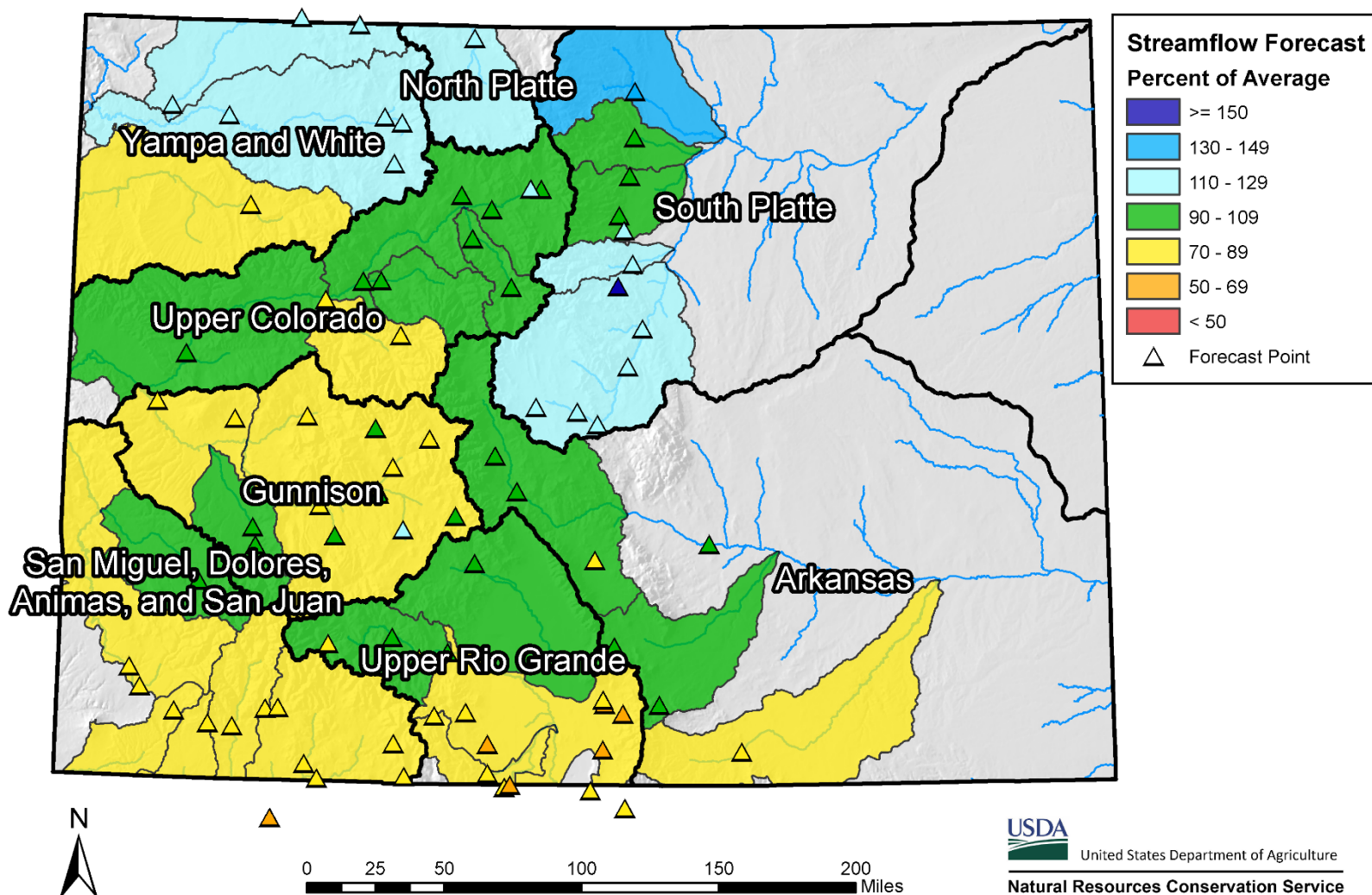
Colorado Statewide Summary

Colorado Major Basins



0 25 50 100 150 200 Miles

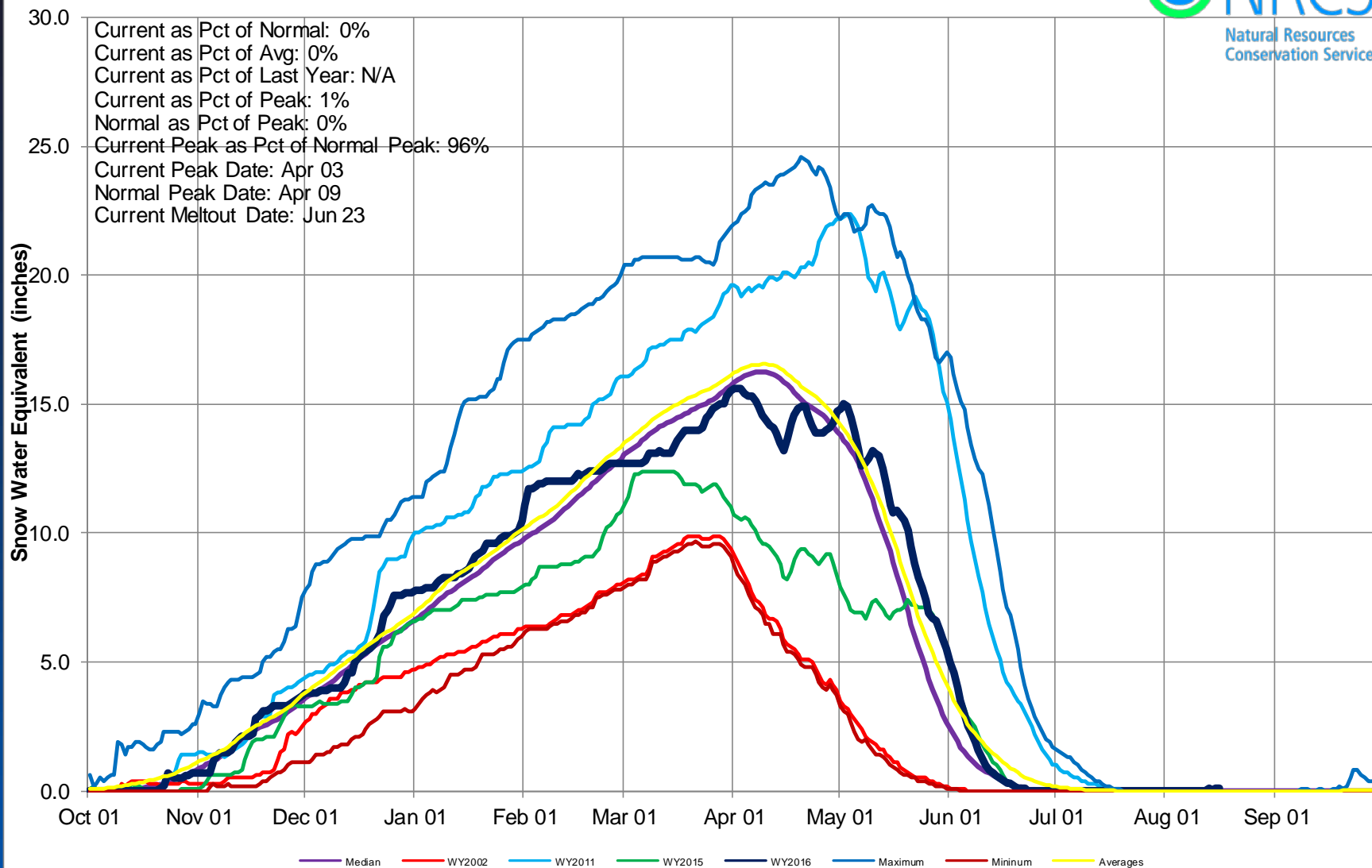
Colorado Streamflow Forecasts Summary June 1, 2016





Colorado Statewide High/Low Snowpack Summary

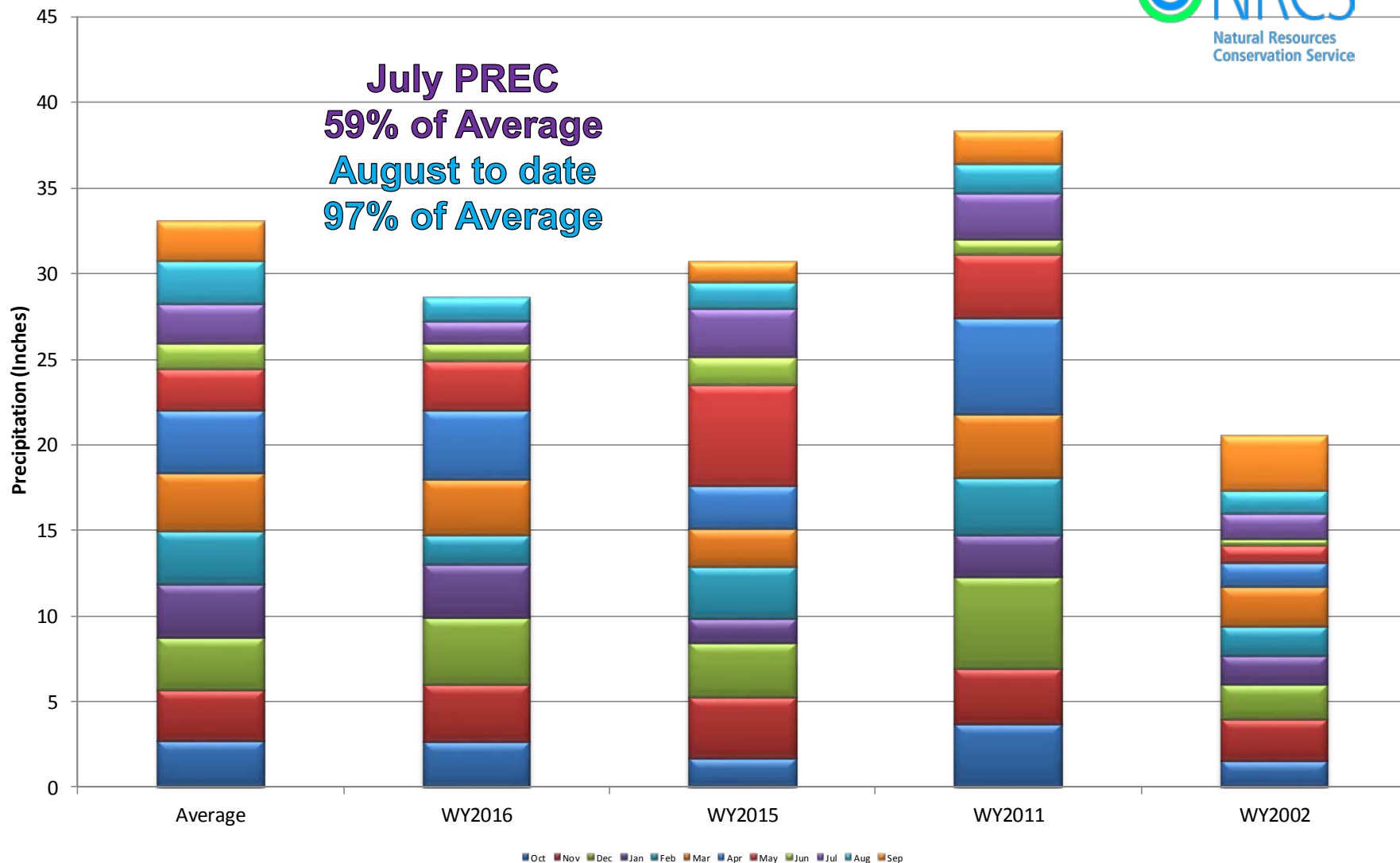
Based on Provisional SNOTEL data as of Aug 16, 2016





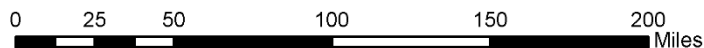
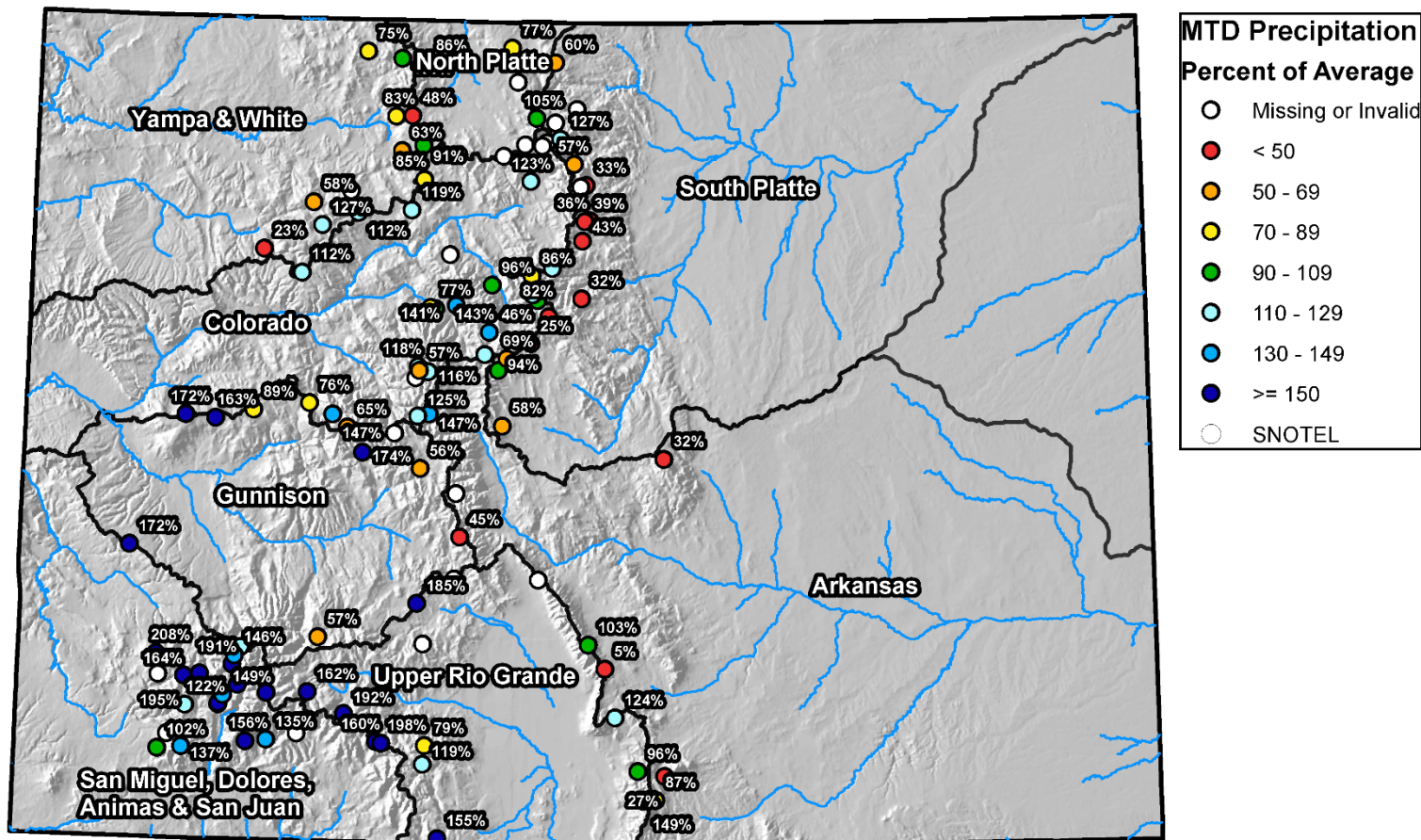
Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016



Colorado SNOTEL Month-to-Date Precipitation

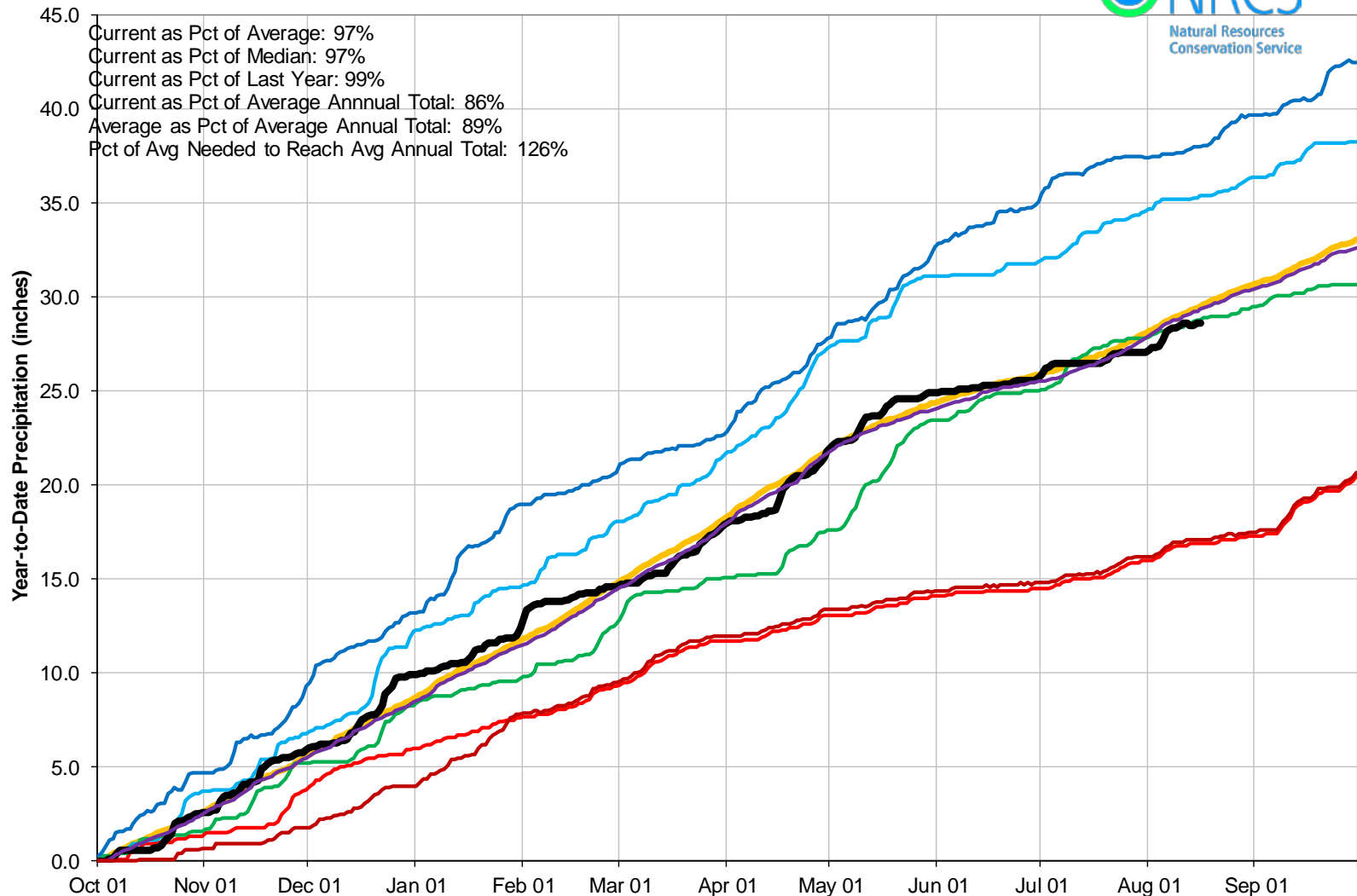
Current as of Aug 16, 2016





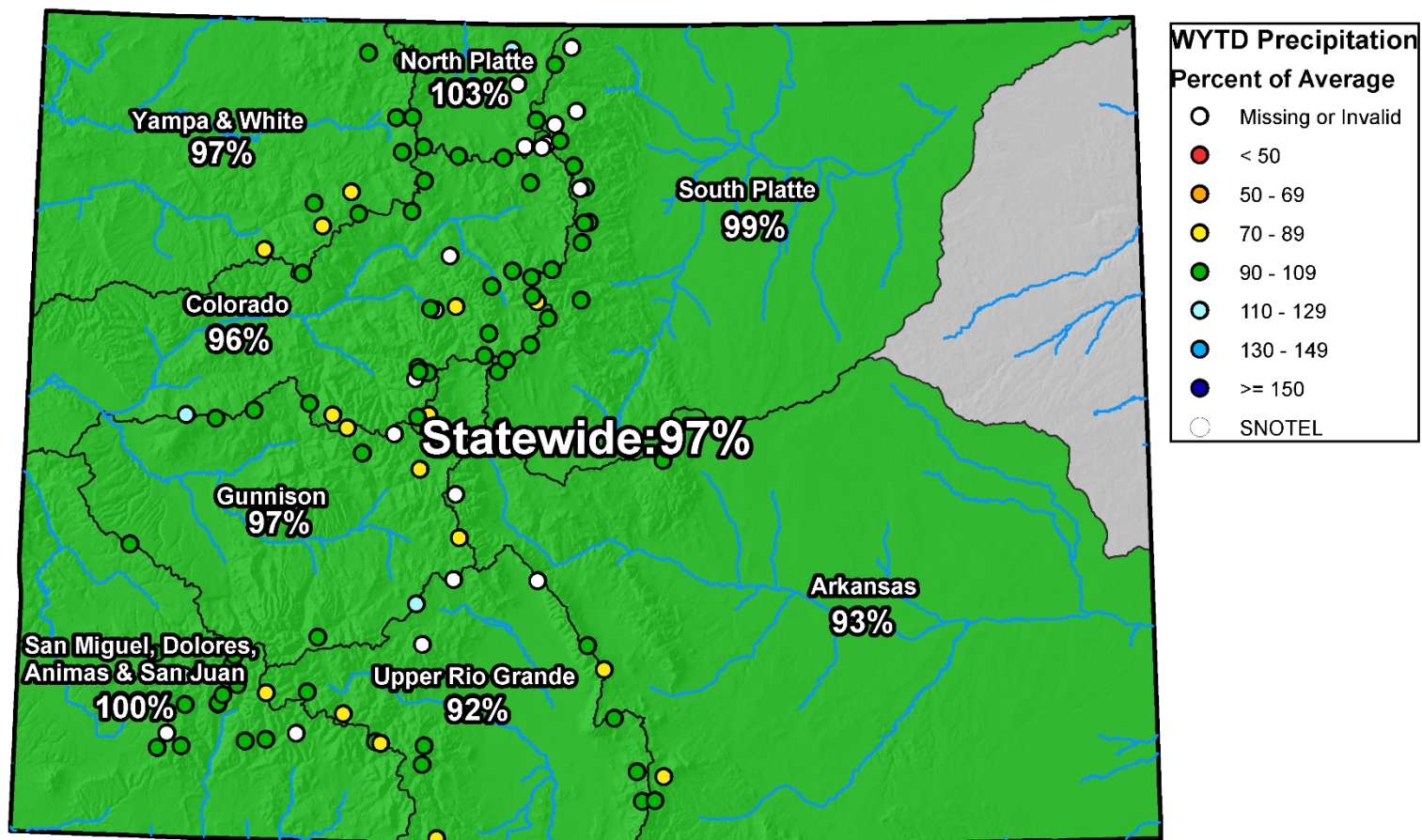
Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2016



Colorado SNOTEL Water Year to Date Precipitation

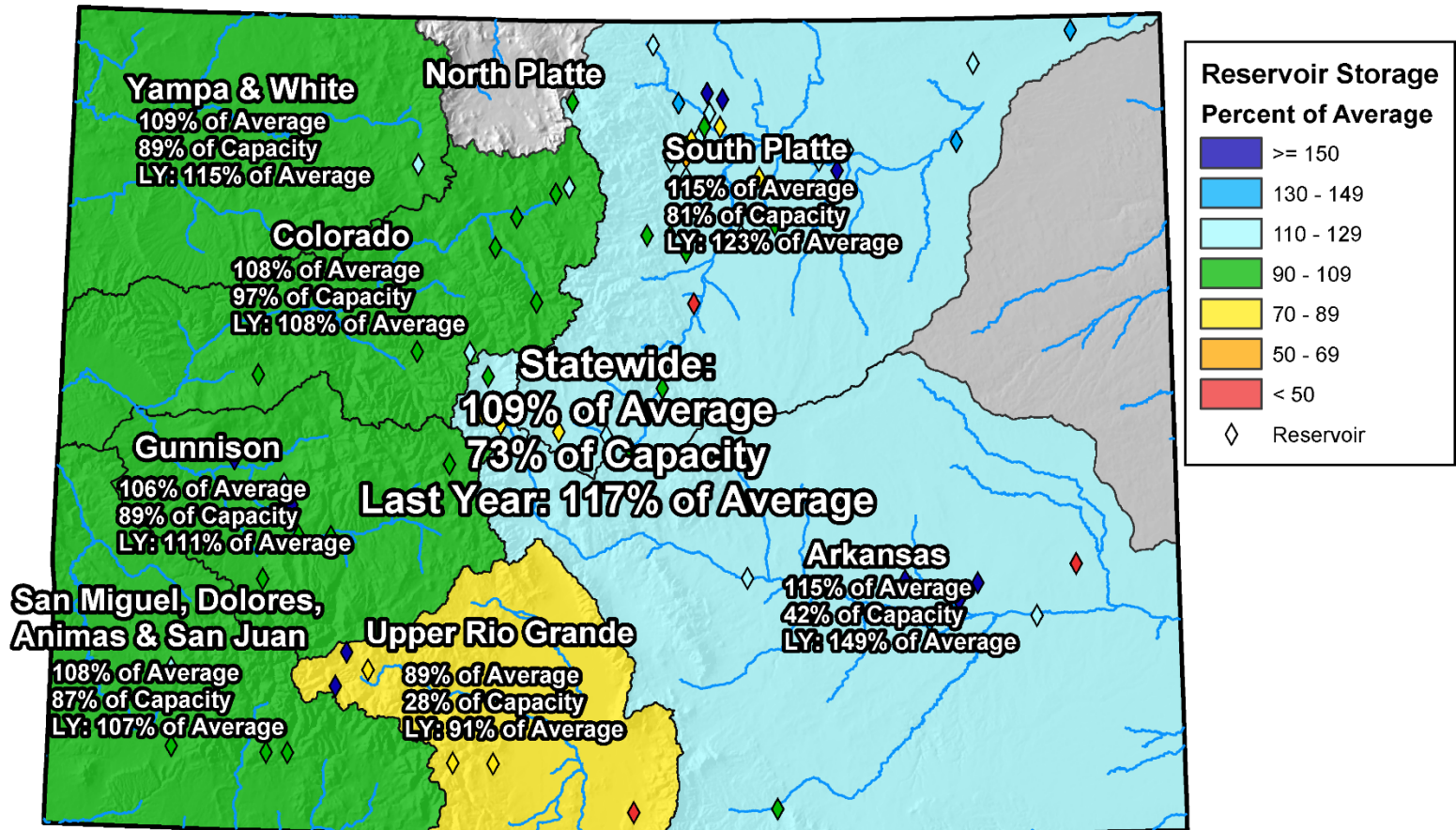
Current as of Aug 16, 2016



0 25 50 100 150 200 Miles

Colorado Monthly Reservoir Storage Summary

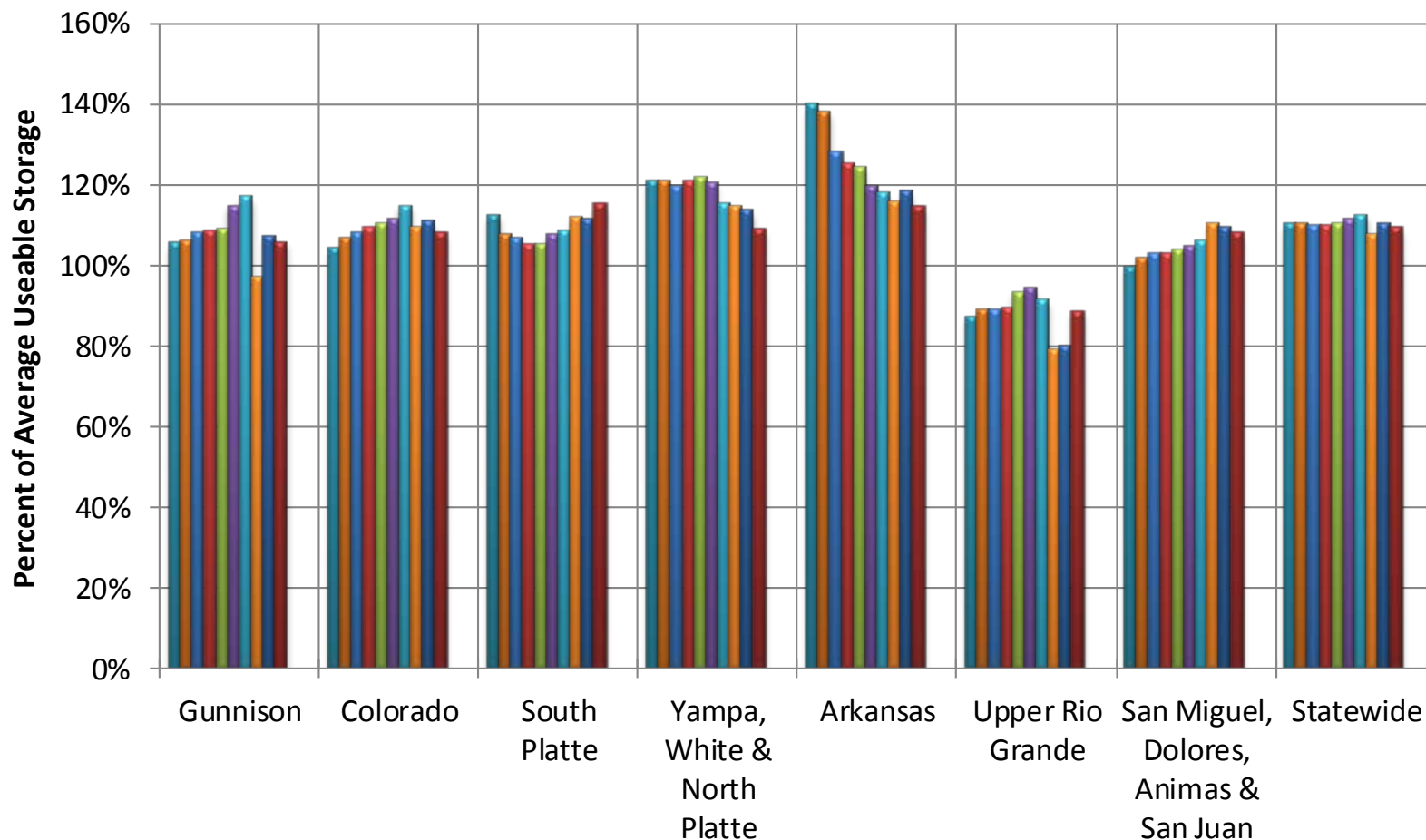
End of July 2016



0 25 50 100 150 200 Miles

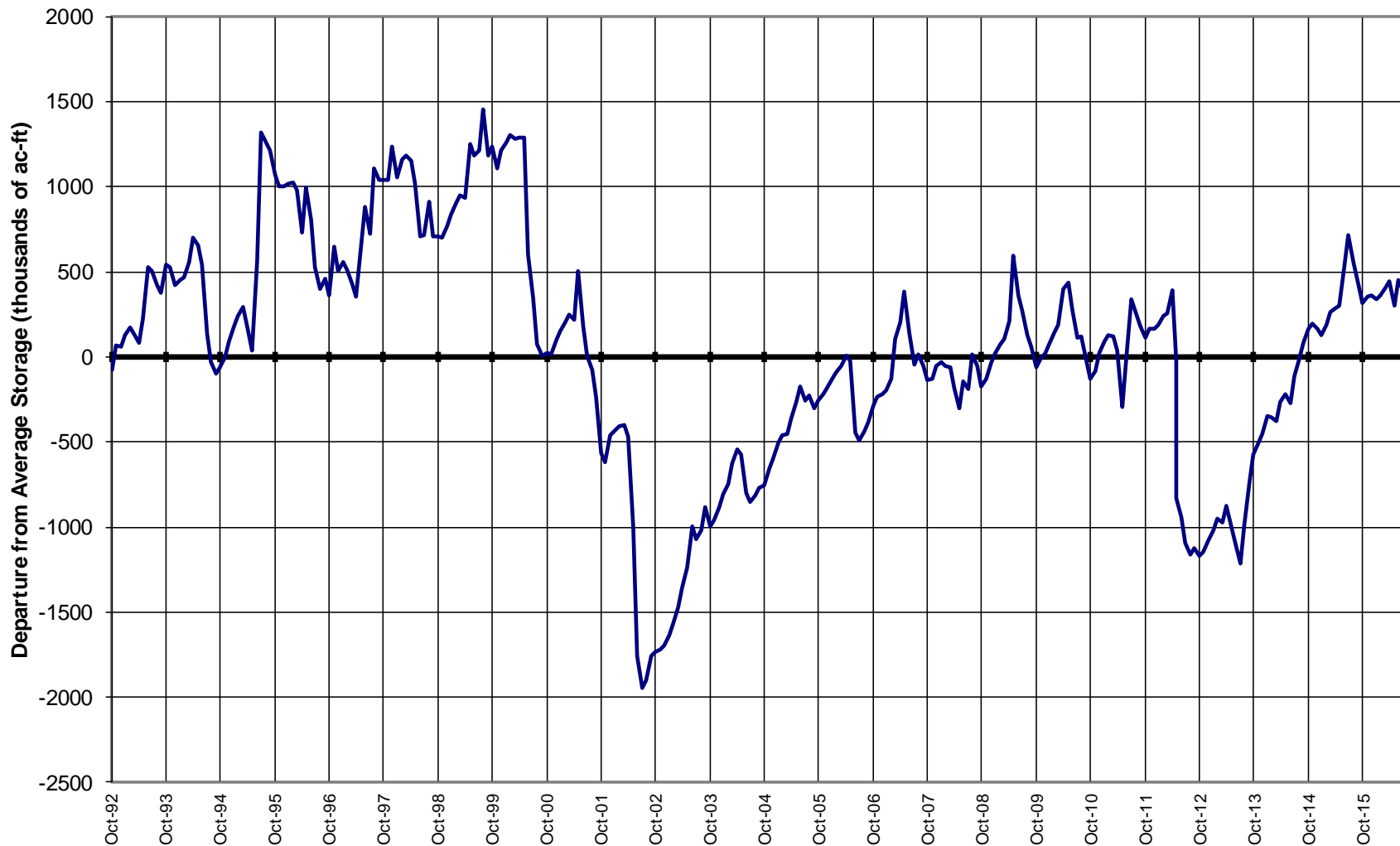
Colorado Reservoir Storage

Oct-15 Nov-15 Dec-15 Jan-16 Feb-16 Mar-16
 Apr-16 May-16 Jun-16 Jul-16 Aug-16 Sep-16





COLORADO STATEWIDE Reservoir Storage Departure from Average

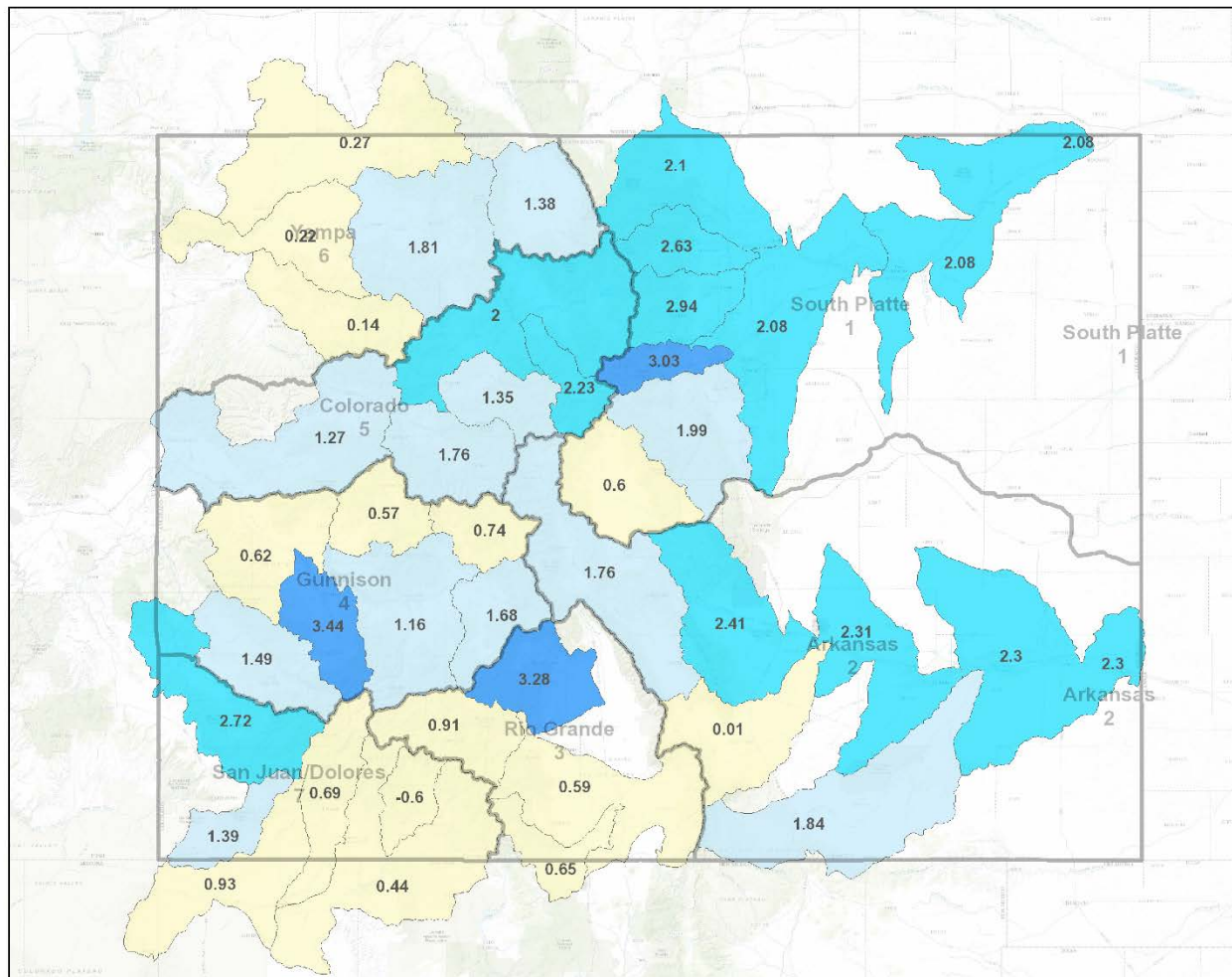




CDSS

Colorado's Decision Support Systems

Map Viewer



Legend

- ☐ Division
- SWSI - Current (July 2016)
 - 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)
- Citations

Location



Notes

113.39 0 56.7 113.39 Miles

1: 3,592,220



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

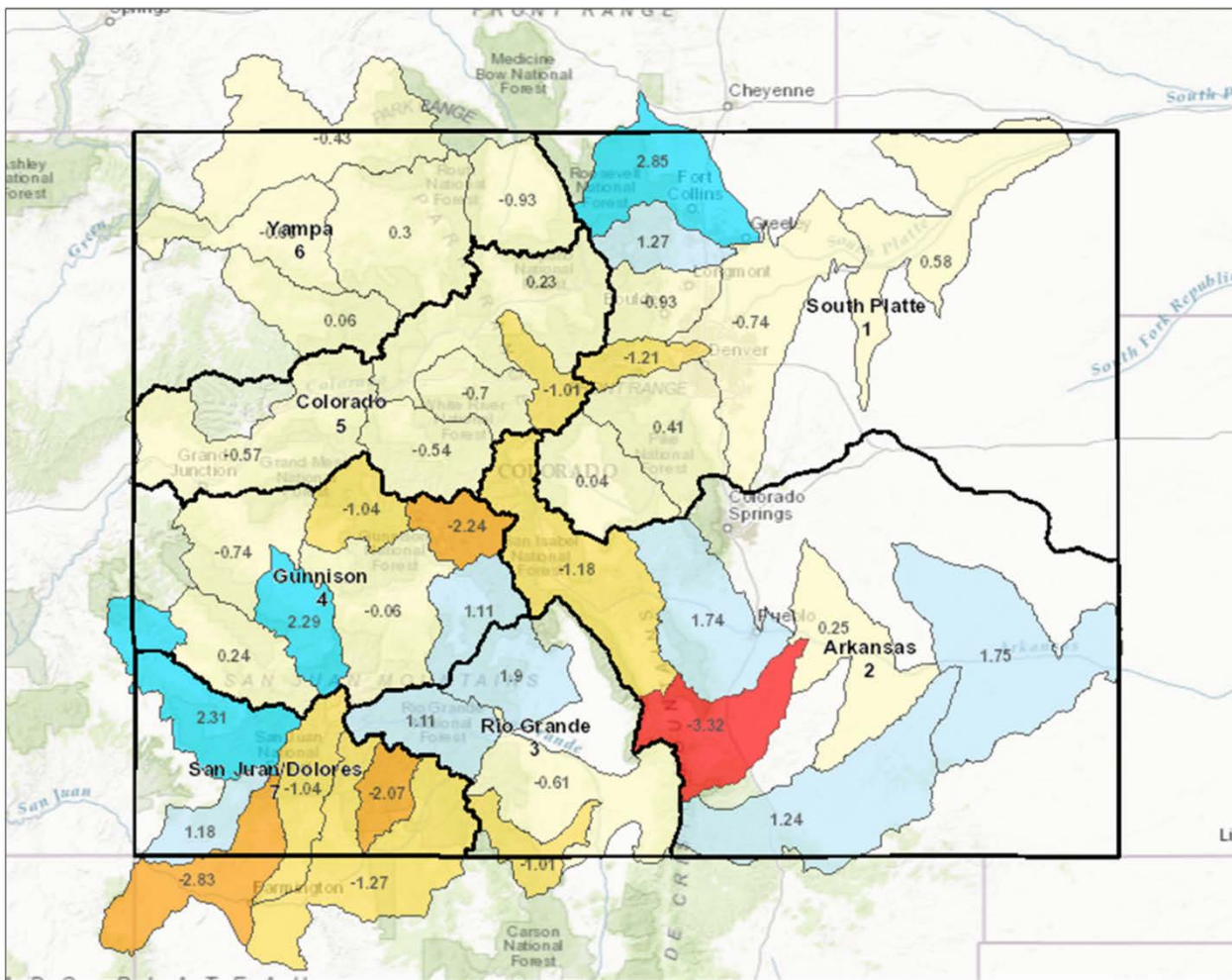
Date Prepared: 7/19/2016 7:23:20 AM



CDSS

Colorado's Decision Support Systems

Map Viewer



Legend

☐ Division

SWSI - Current (August 2016)

- 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)
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Citations

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Date Prepared: 8/17/2016 9:55:37 AM

Summary

- The standard April-July volumetric streamflow forecast period has now ended
- July precipitation was well below normal across the state
- August precipitation has been more plentiful so far and particularly in the SW part of the state
- Statewide we have remained at near normal WY precip
Reservoirs statewide remain in relatively good standing at 109% of normal, very similar to last month
- SWSIs dropped from last month across the state
- Red Mountain SNOTEL update: We are now trying to keep the site over the winter and re-locate next summer but that is still uncertain



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

August 17th, 2016

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

Hydrologist

720-544-2853

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