



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

March 24th, 2016

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos

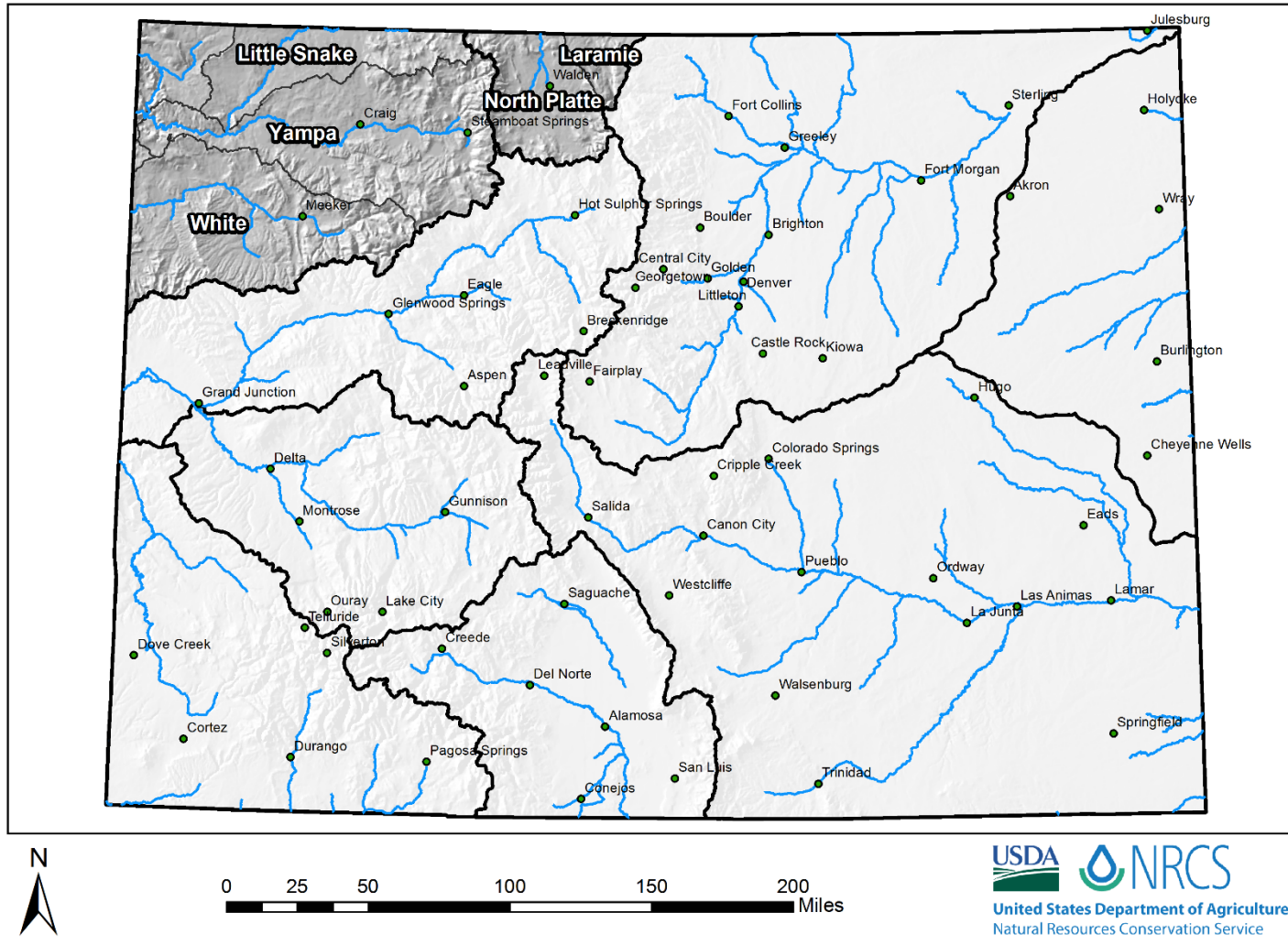
Hydrologist

720-544-2852

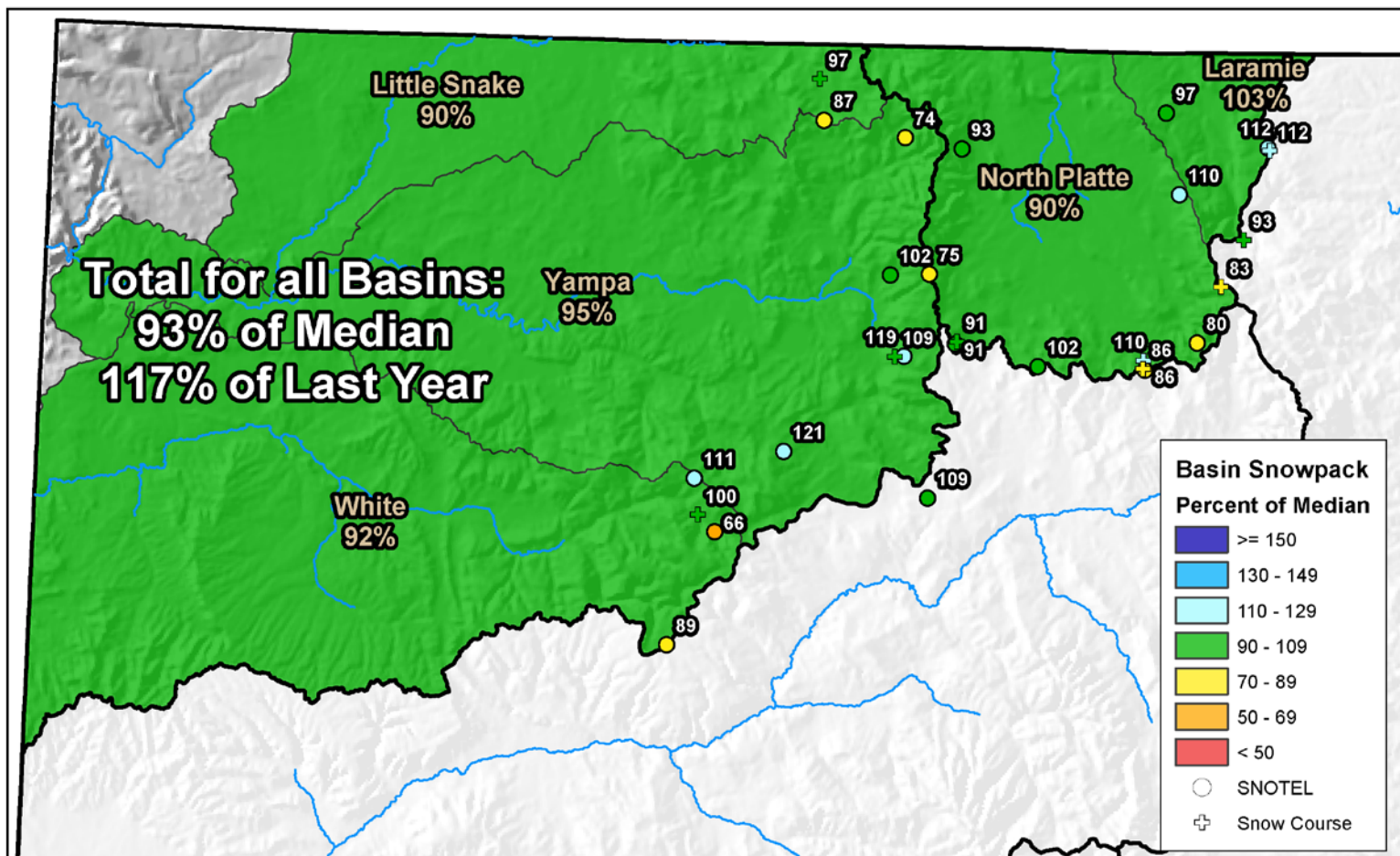
<http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/>

Major Basin Summary

Yampa, White, and North Platte River Basins



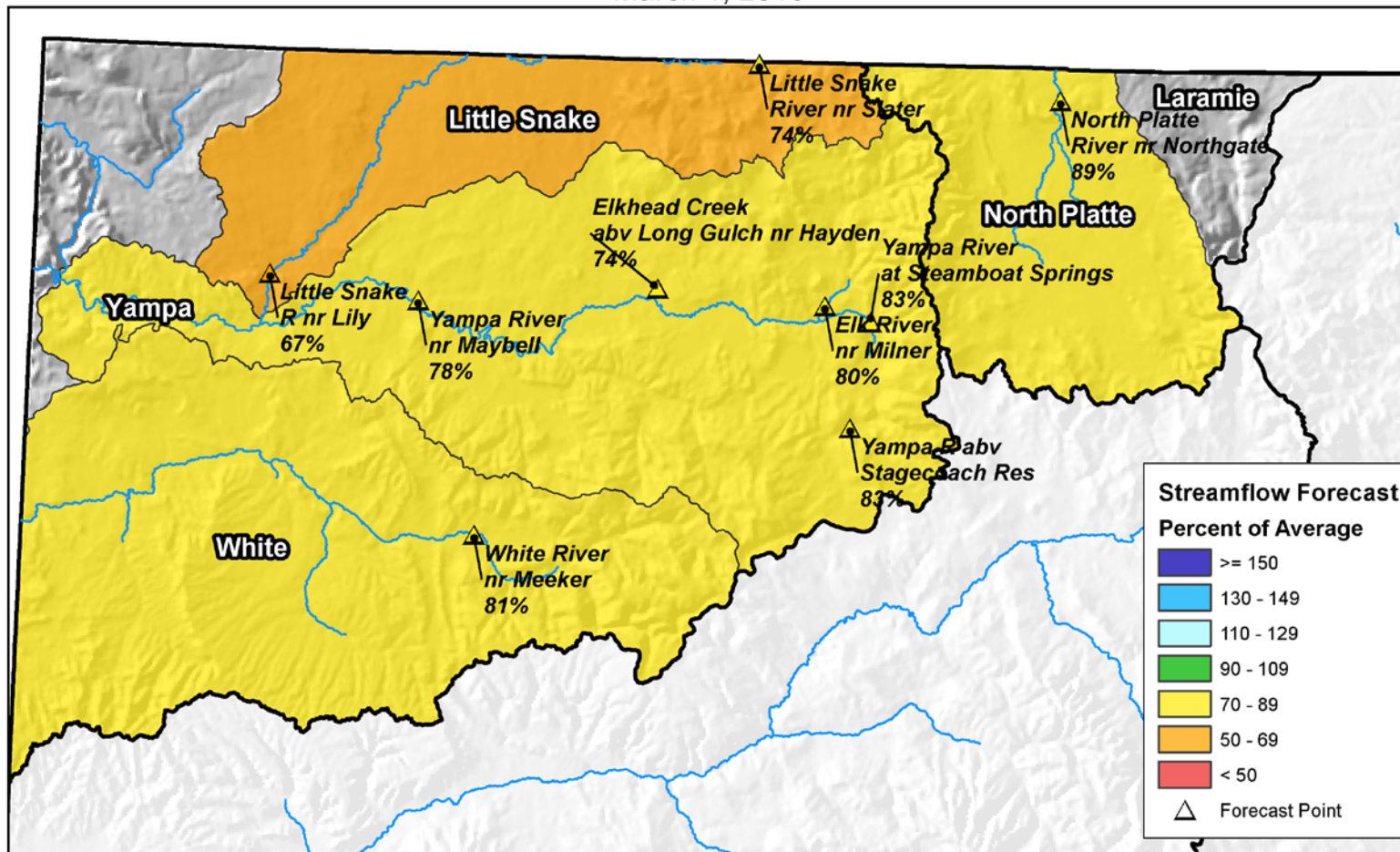
Yampa, White, and North Platte River Basins Monthly Snowpack Summary March 1, 2016



0 10 20 40 60 80 Miles

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

March 1, 2016

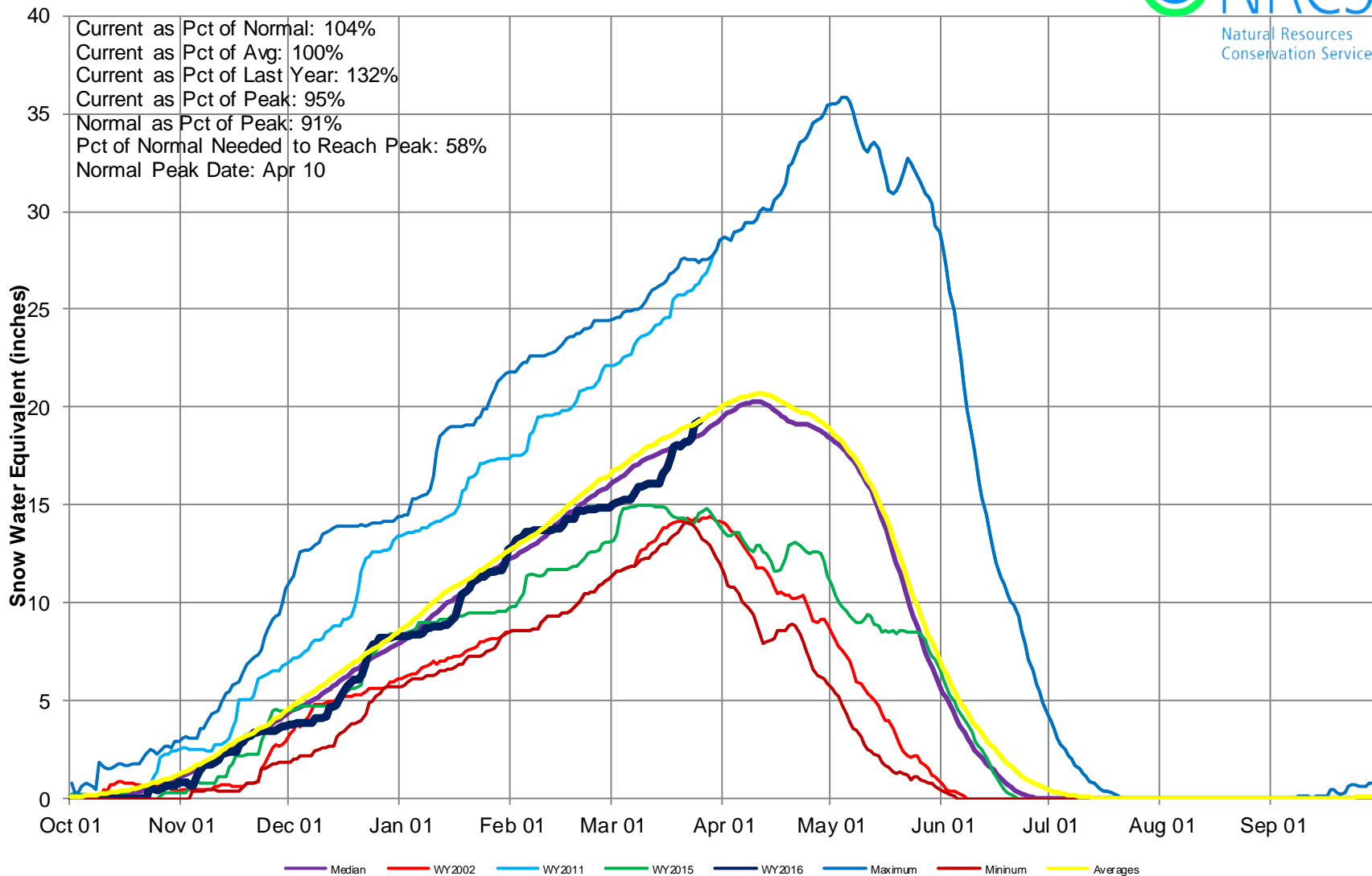


0 10 20 40 60 80 Miles

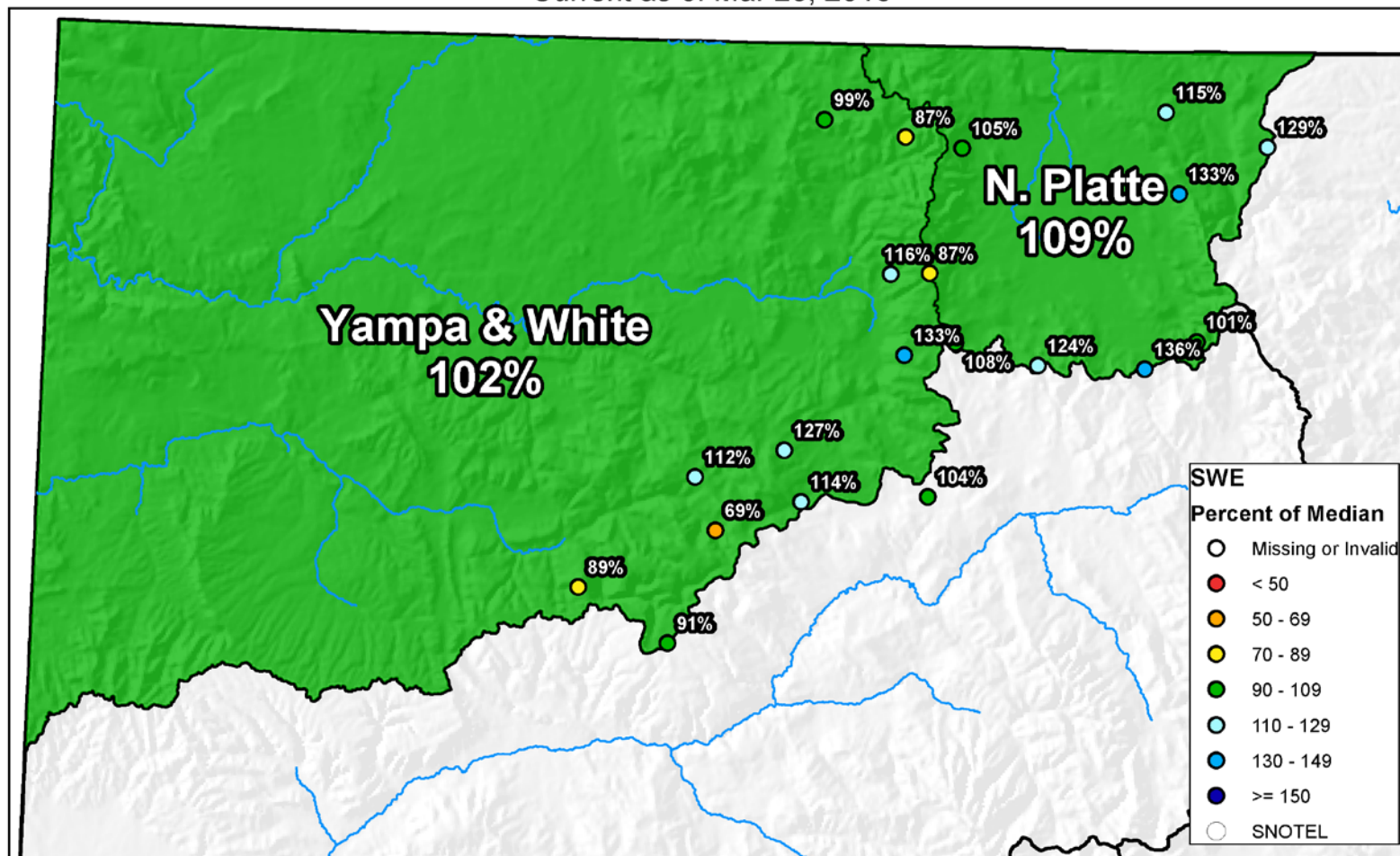


Yampa, White & North Platte River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 25, 2016



Yampa, White, and North Platte River Basins Snow Water Equivalent (SWE) Summary Current as of Mar 25, 2016

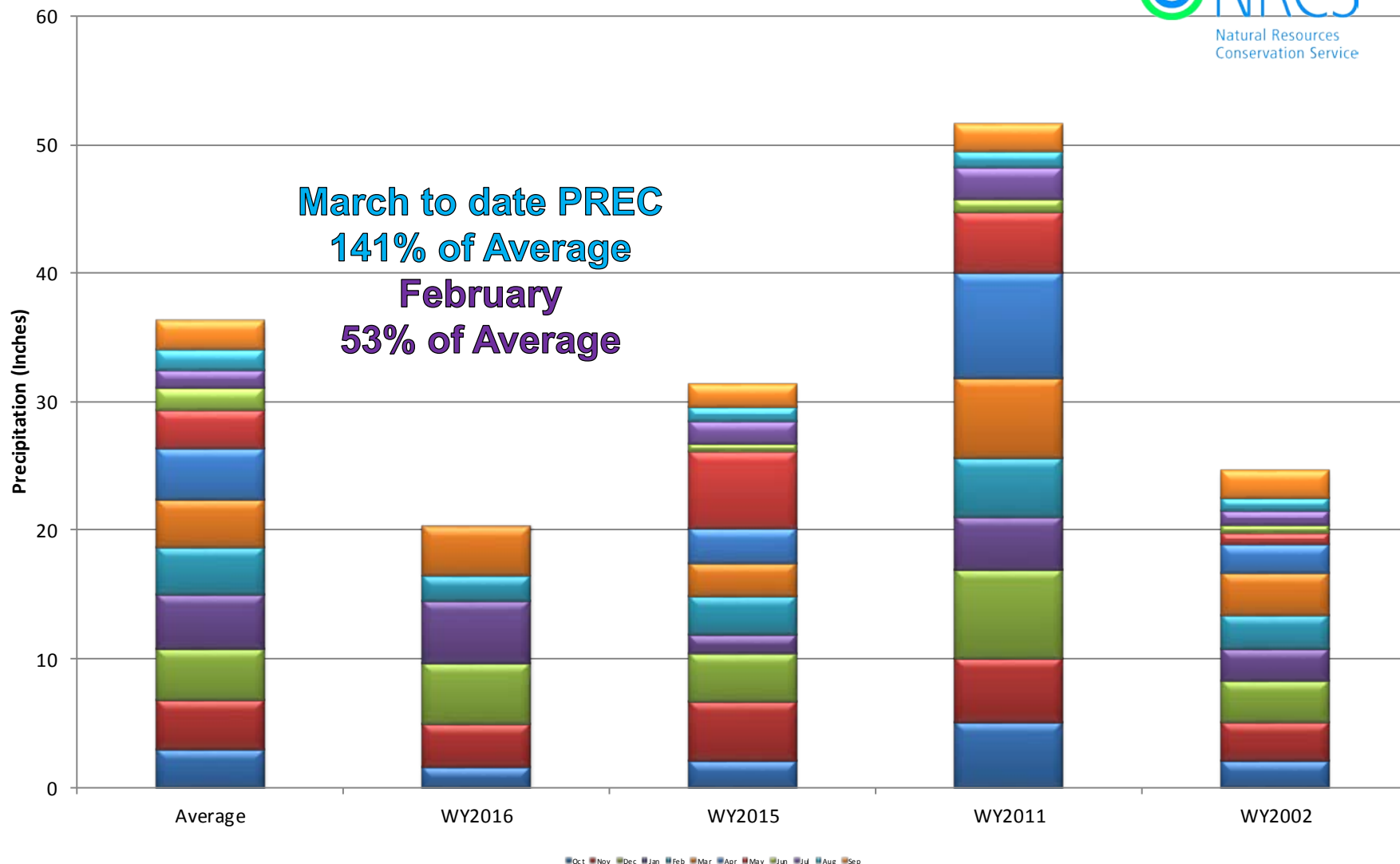


0 10 20 40 60 80 Miles



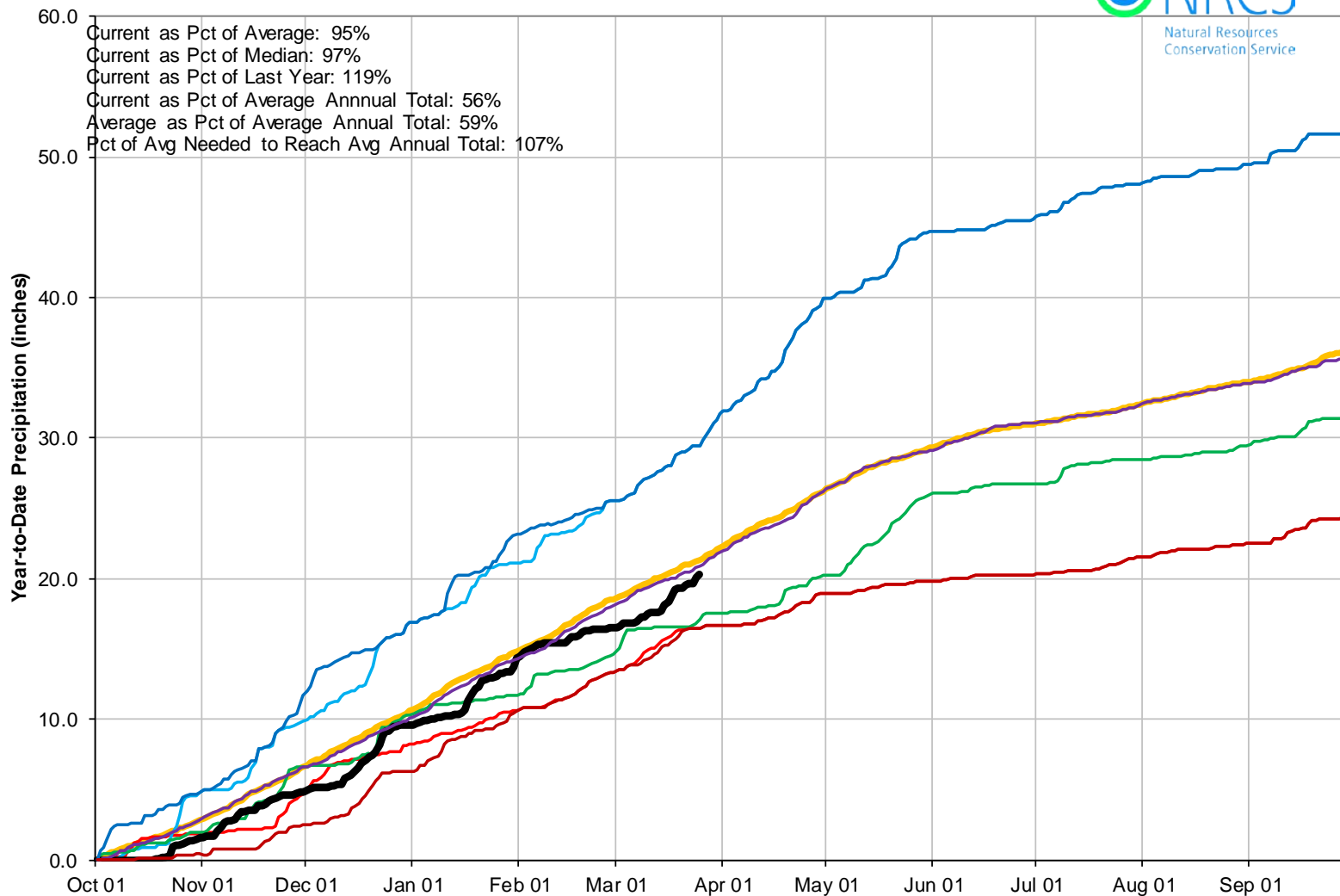
Yampa & White River Basins High/Low Monthly Precipitation Summary

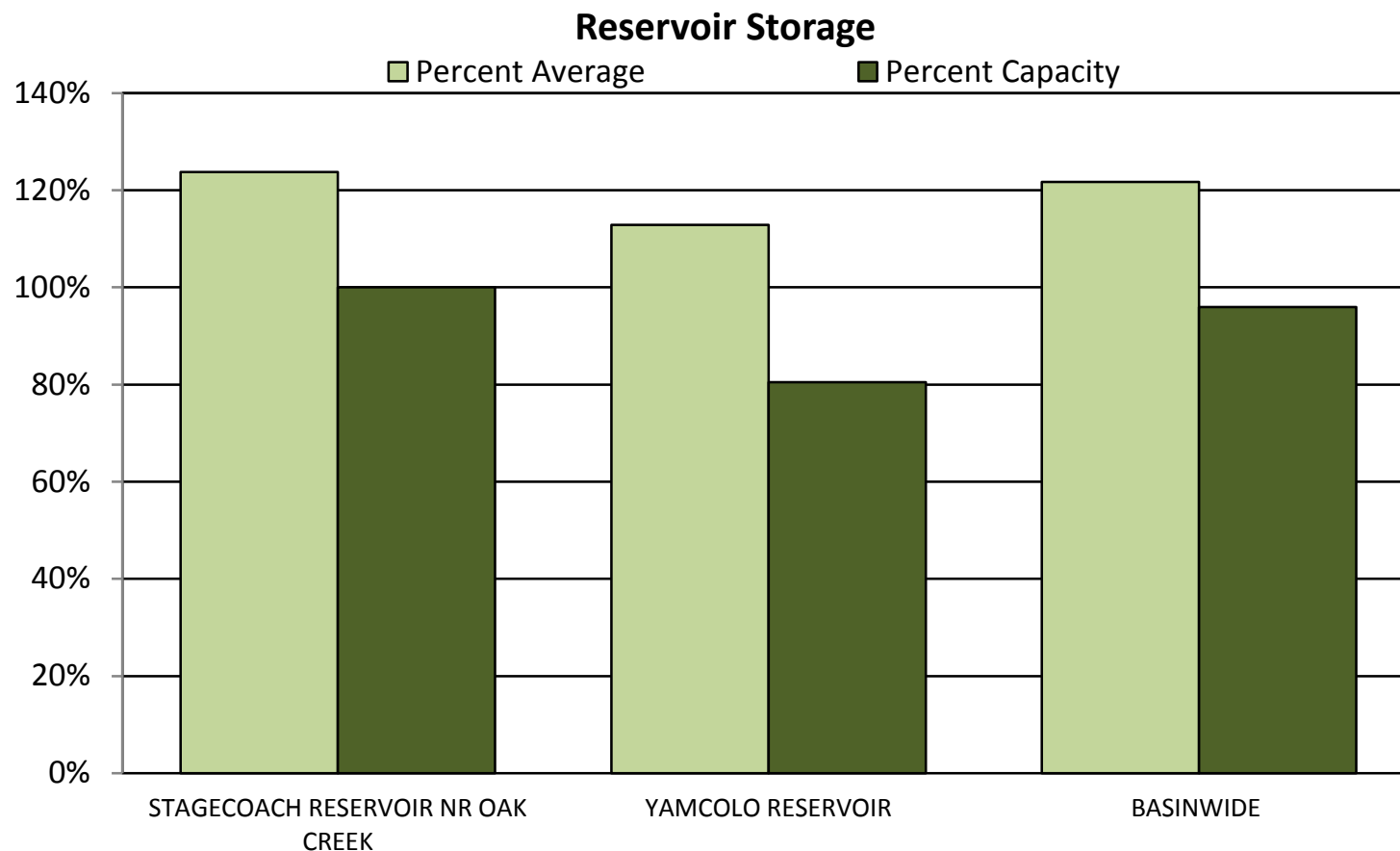
Based on Provisional SNOTEL data as of Mar 25, 2016



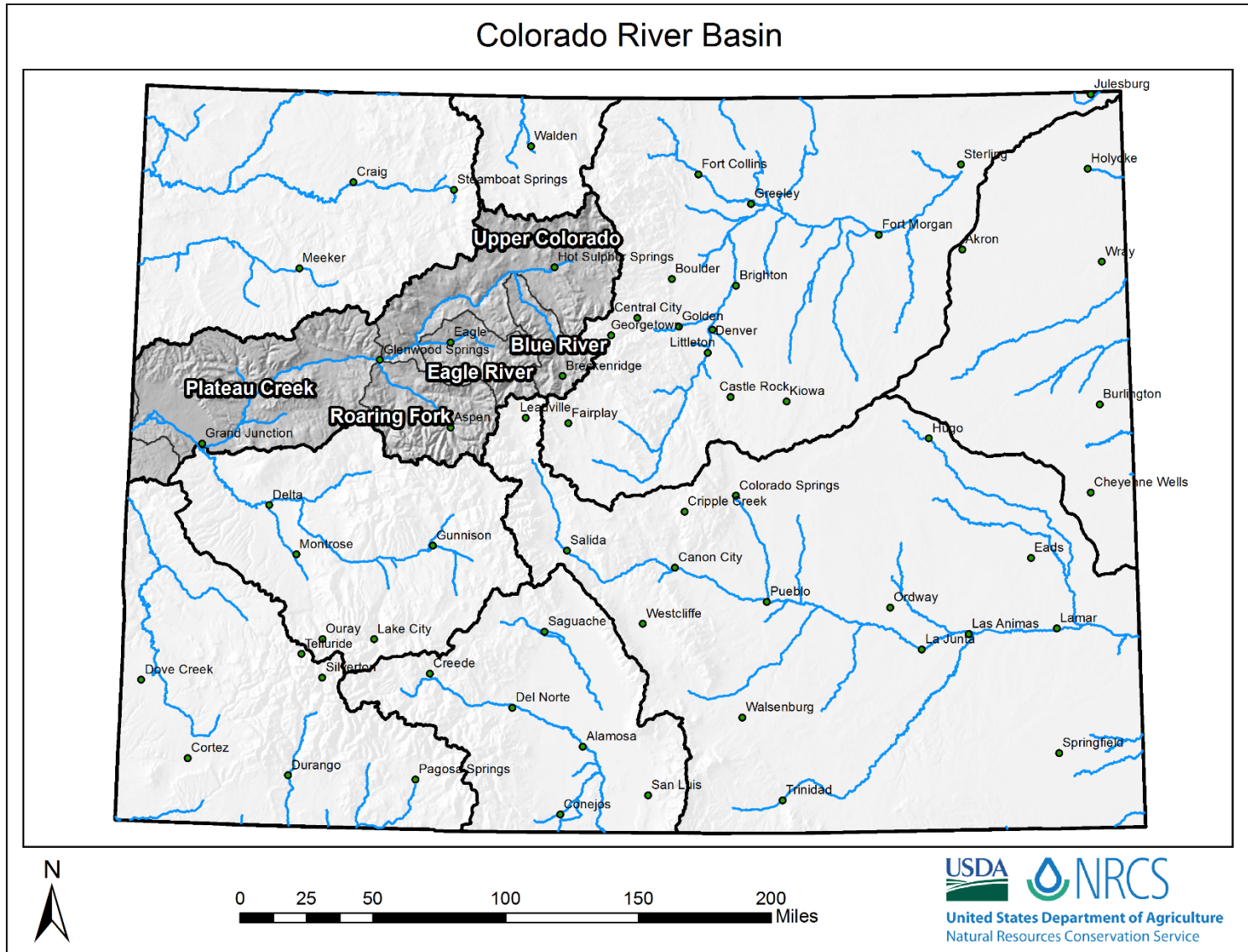
Yampa & White River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 25, 2016

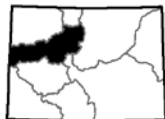
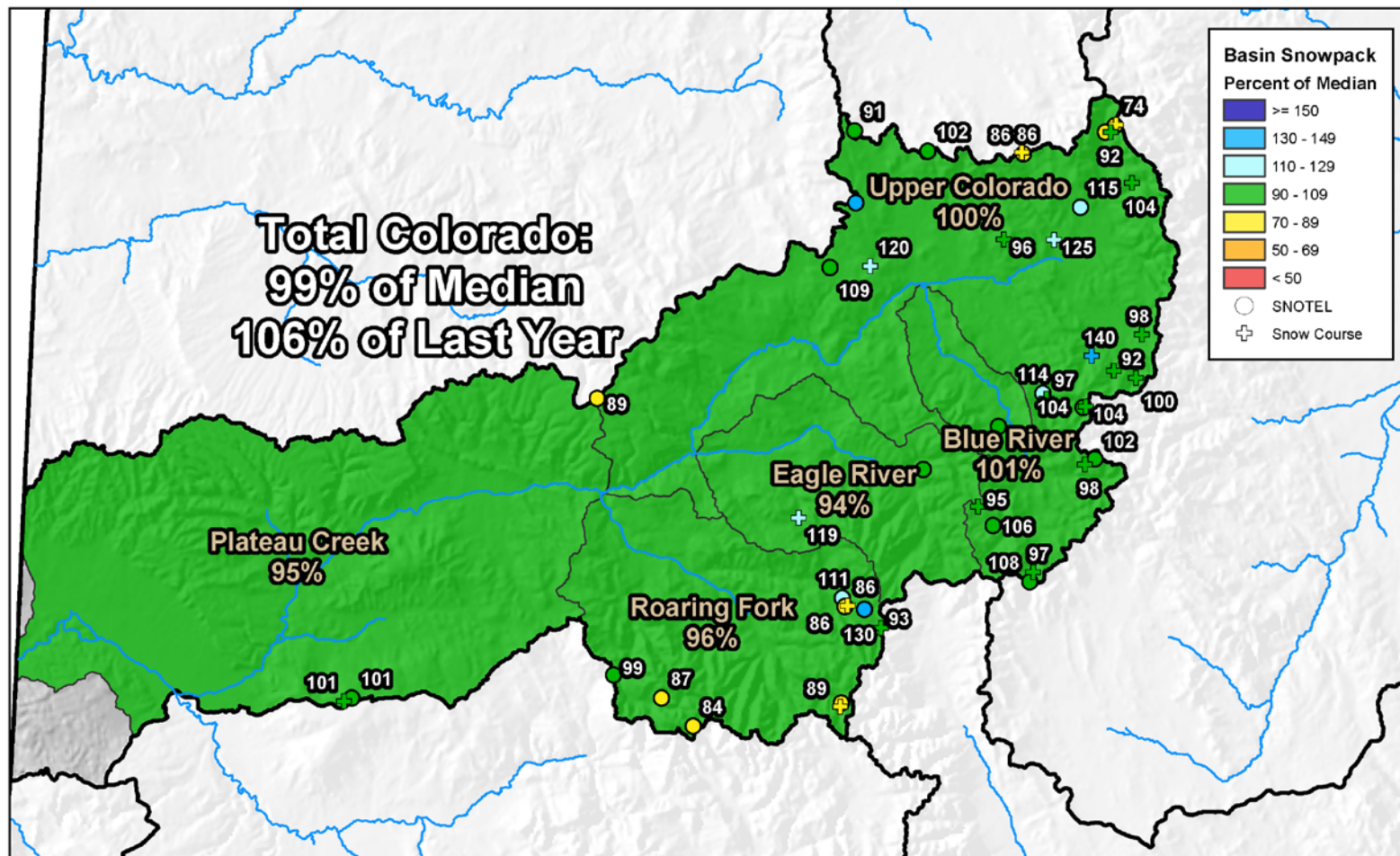




Major Basin Summary



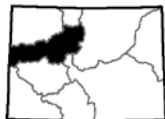
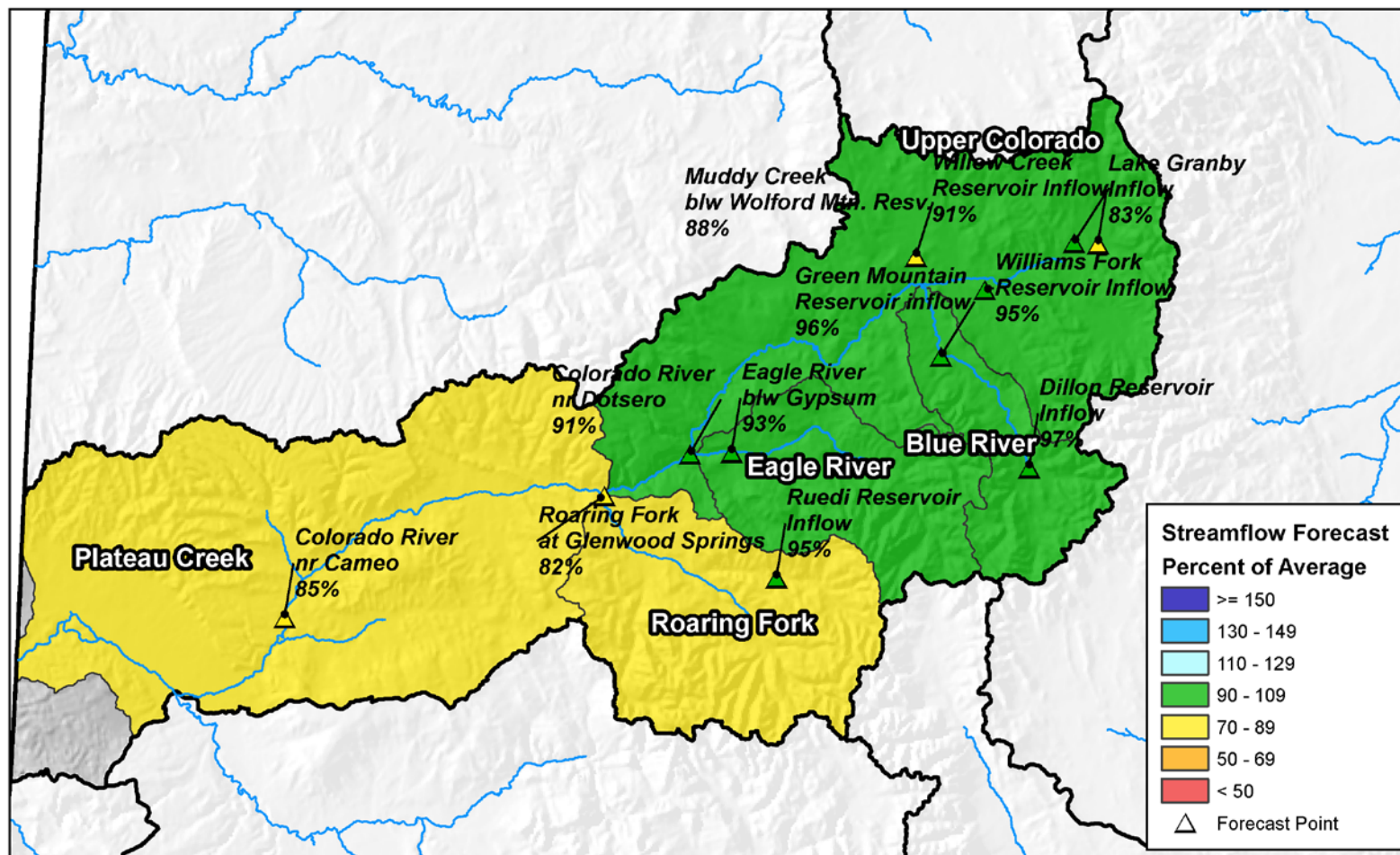
Upper Colorado River Basin Monthly Snowpack Summary March 1, 2016



0 10 20 40 60 80 Miles

Upper Colorado River Basin Streamflow Forecast Summary

March 1, 2016

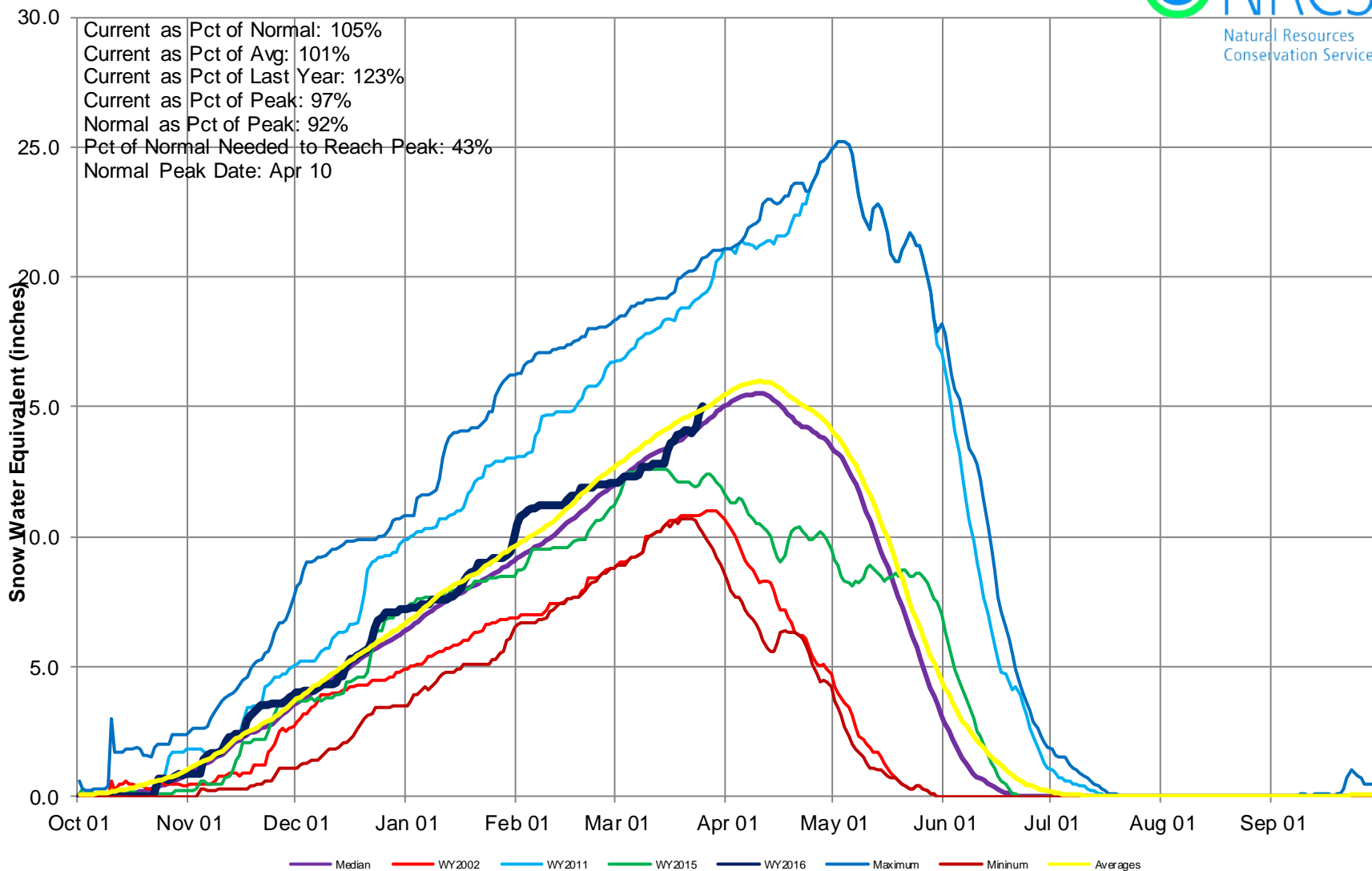


0 10 20 40 60 80 Miles

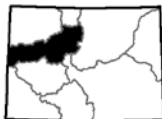
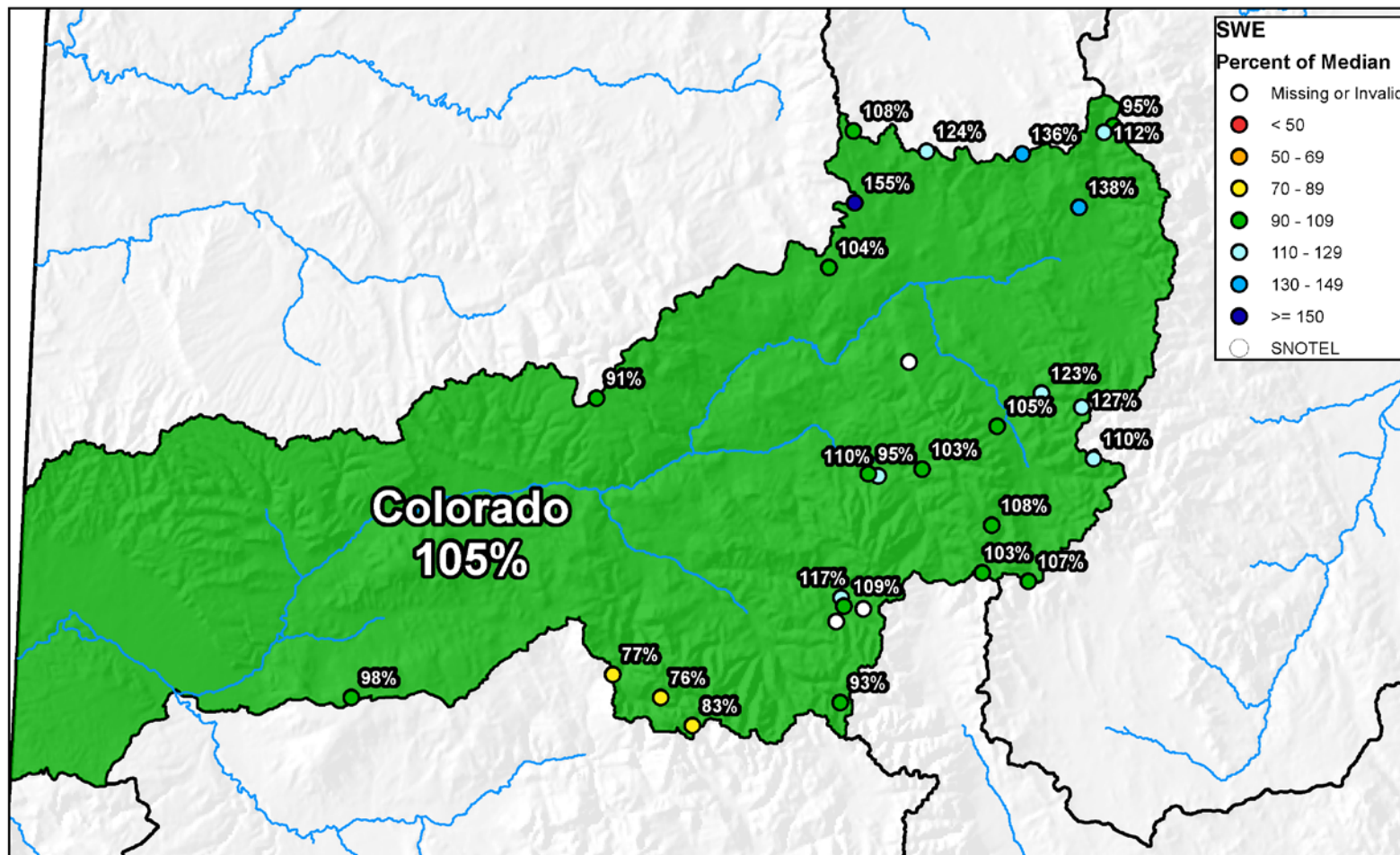


Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 25, 2016



Upper Colorado River Basin Snow Water Equivalent (SWE) Summary Current as of Mar 25, 2016



0 10 20 40 60 80 Miles



United States Department of Agriculture

Natural Resources Conservation Service

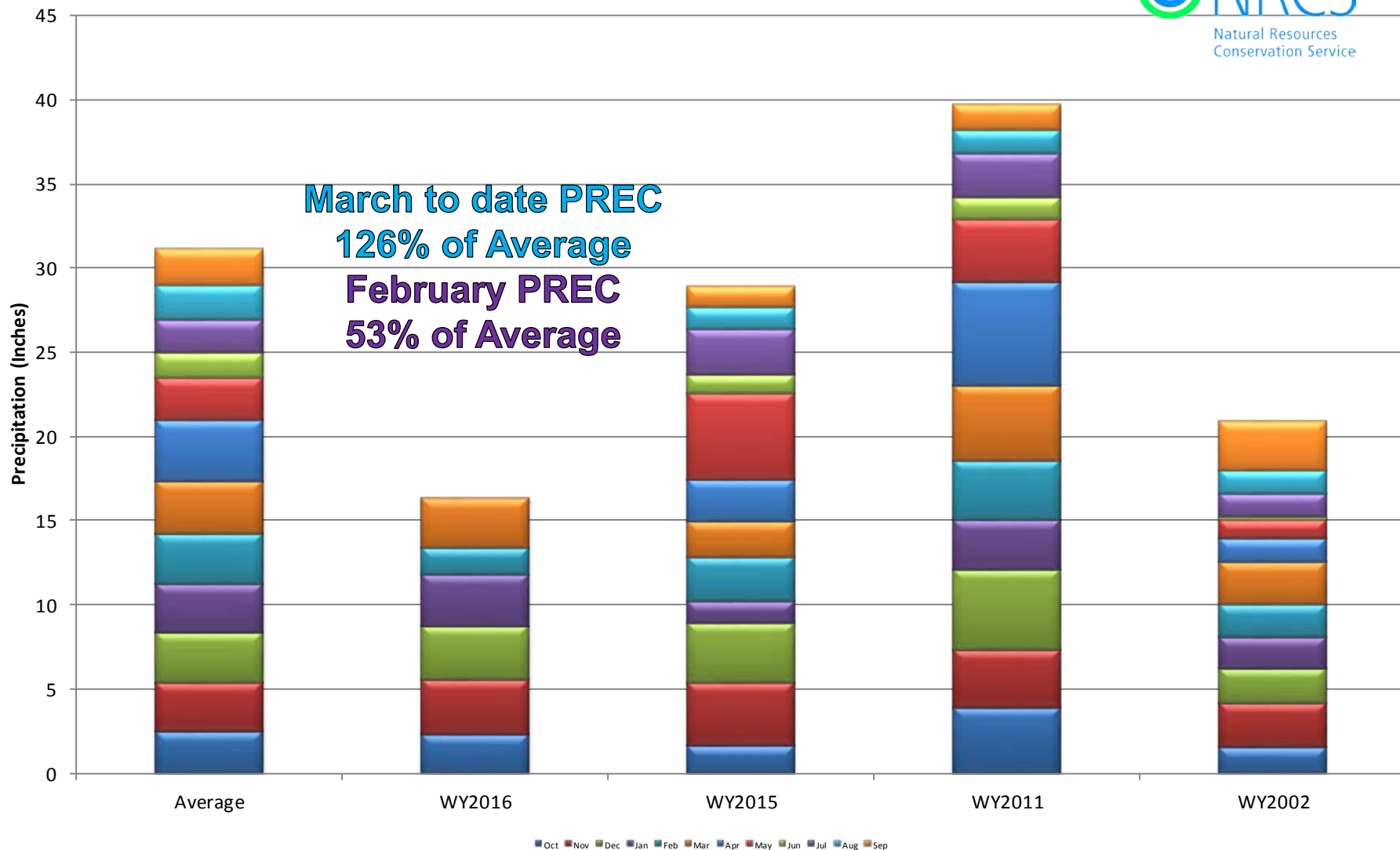


Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 25, 2016



March to date PREC
126% of Average
February PREC
53% of Average



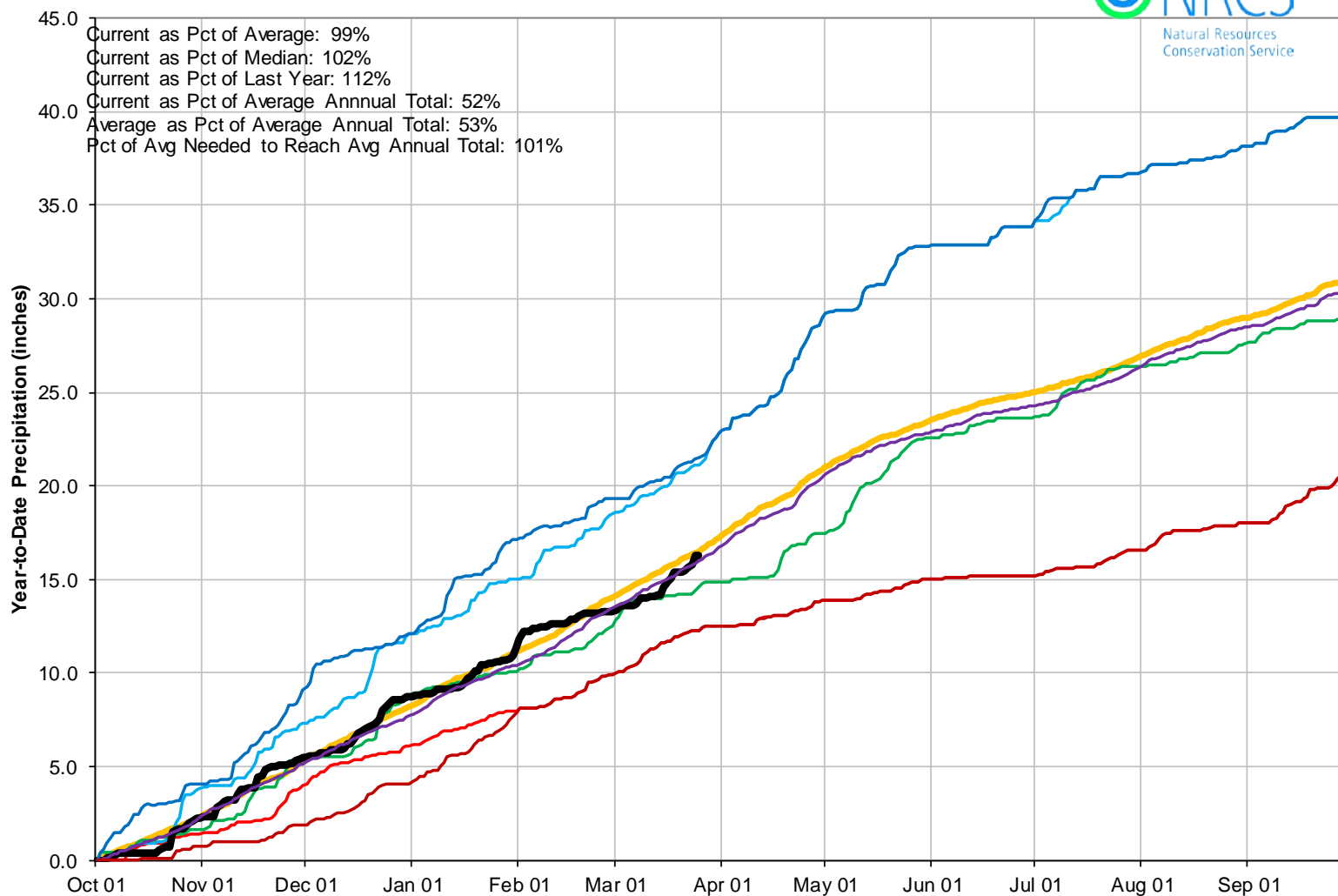


Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

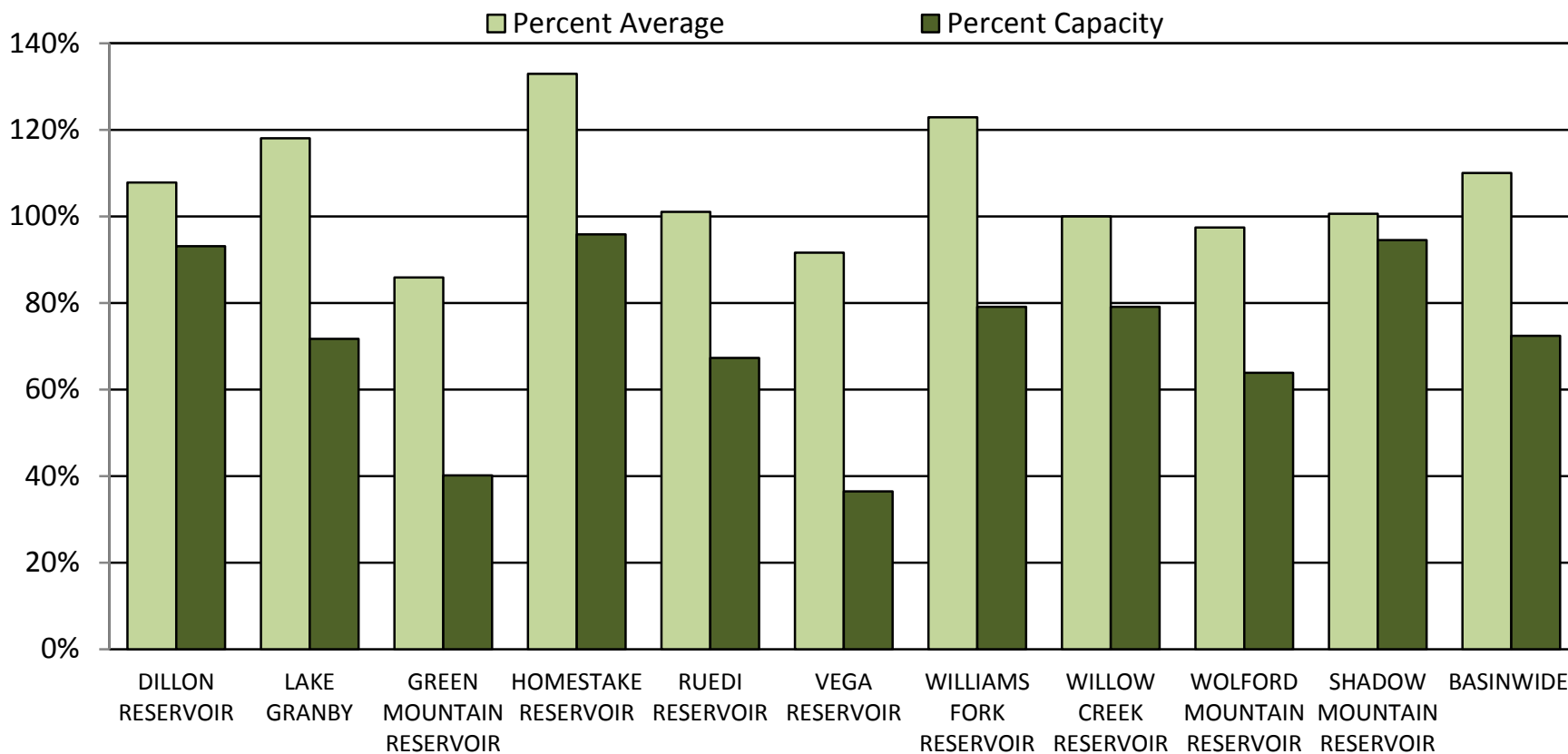
Based on Provisional SNOTEL data as of Mar 25, 2016



Natural Resources
Conservation Service

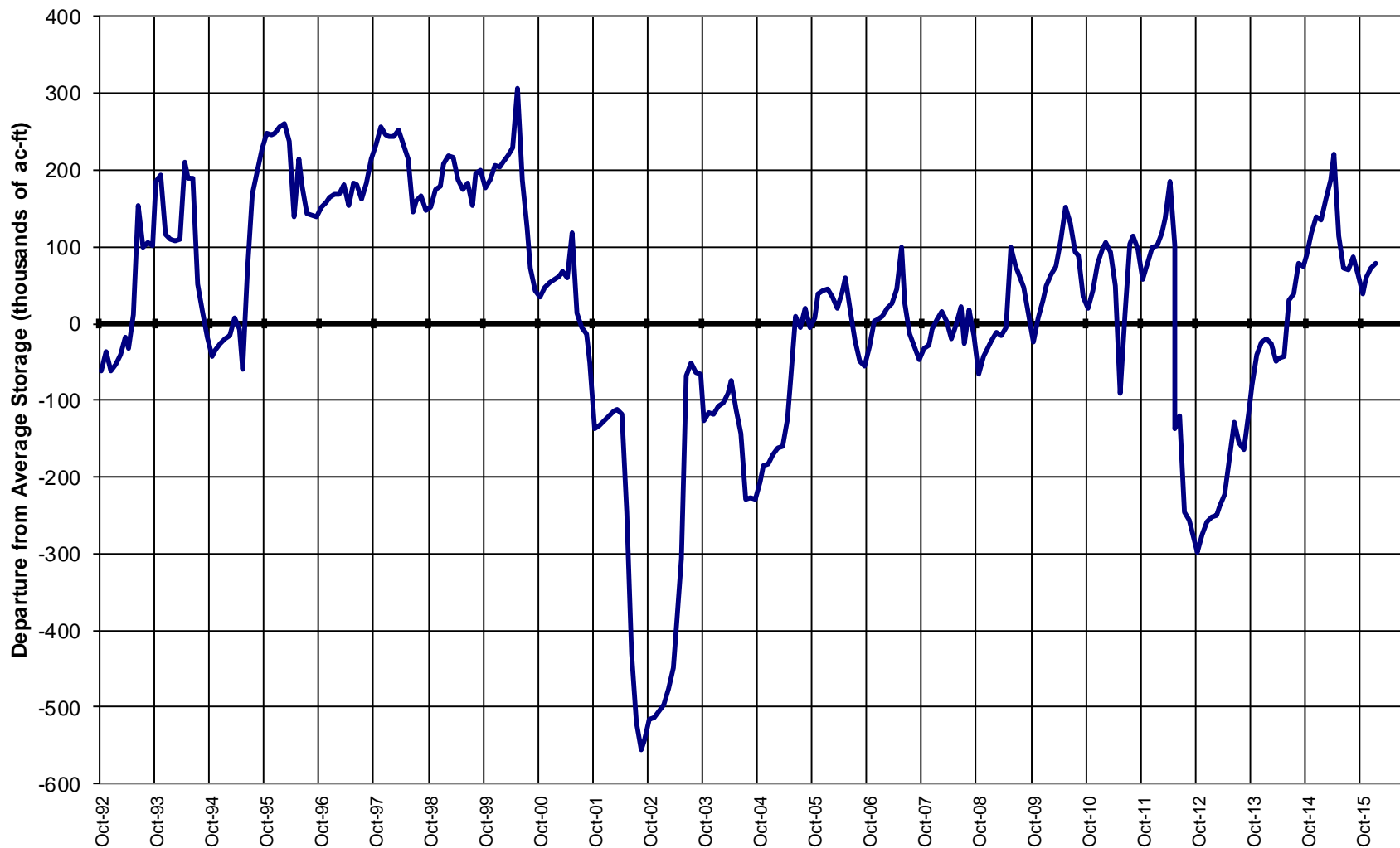


Reservoir Storage





COLORADO RIVER BASIN Reservoir Storage Departure from Average

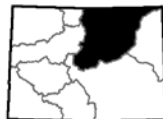
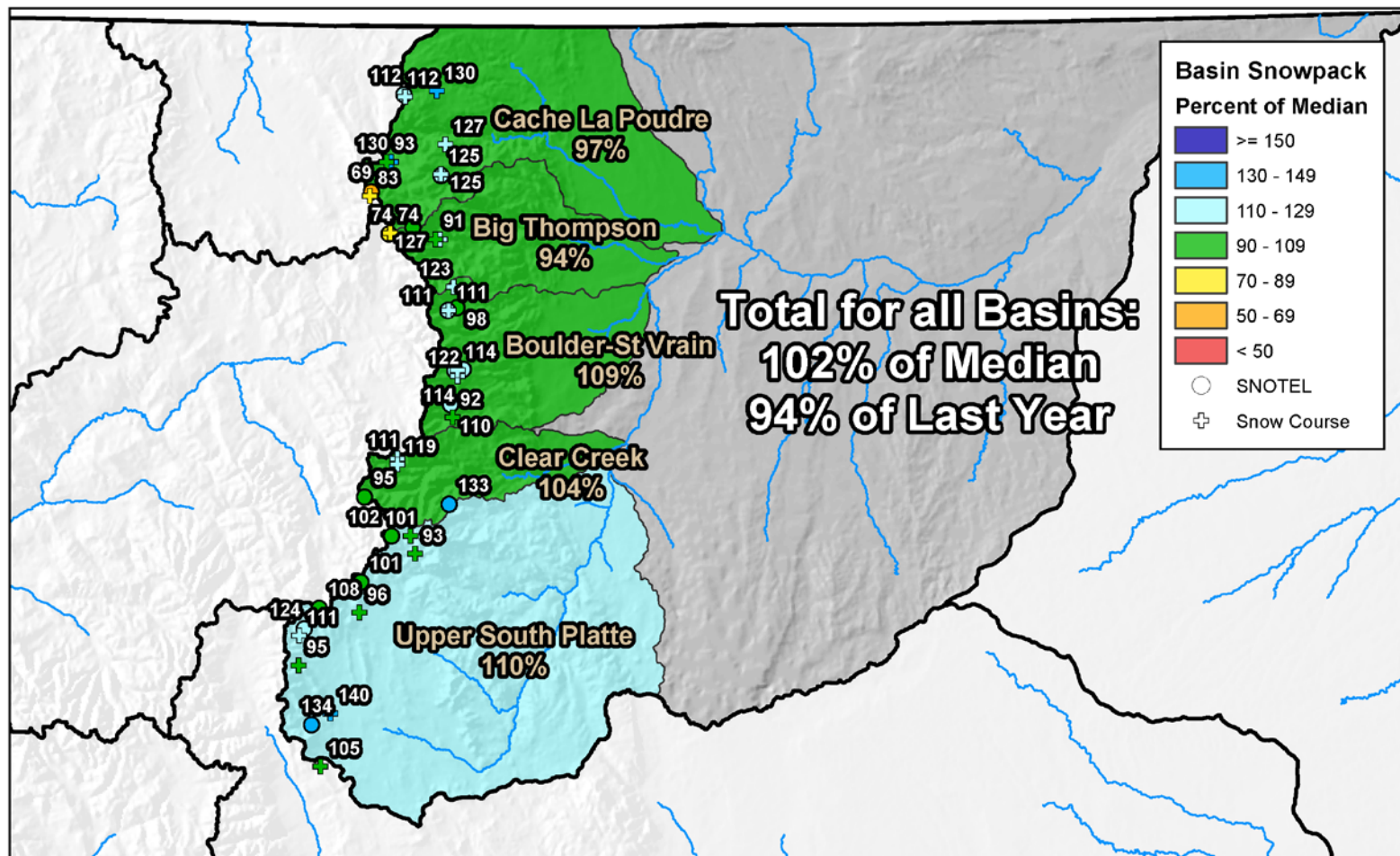


A map of Colorado showing its major river basins and cities. The basins are labeled in bold black text: Cache La Poudre, Big Thompson, Boulder-St Vrain, Clear Creek, and Upper South Platte. The map uses a light gray background for the state, with black lines for county boundaries and blue lines for rivers. Major cities are marked with green dots and labeled. The map shows the distribution of water resources across the state, with the Upper South Platte basin being the largest and most central.



0 25 50 100 150 200 Miles

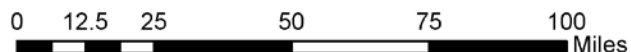
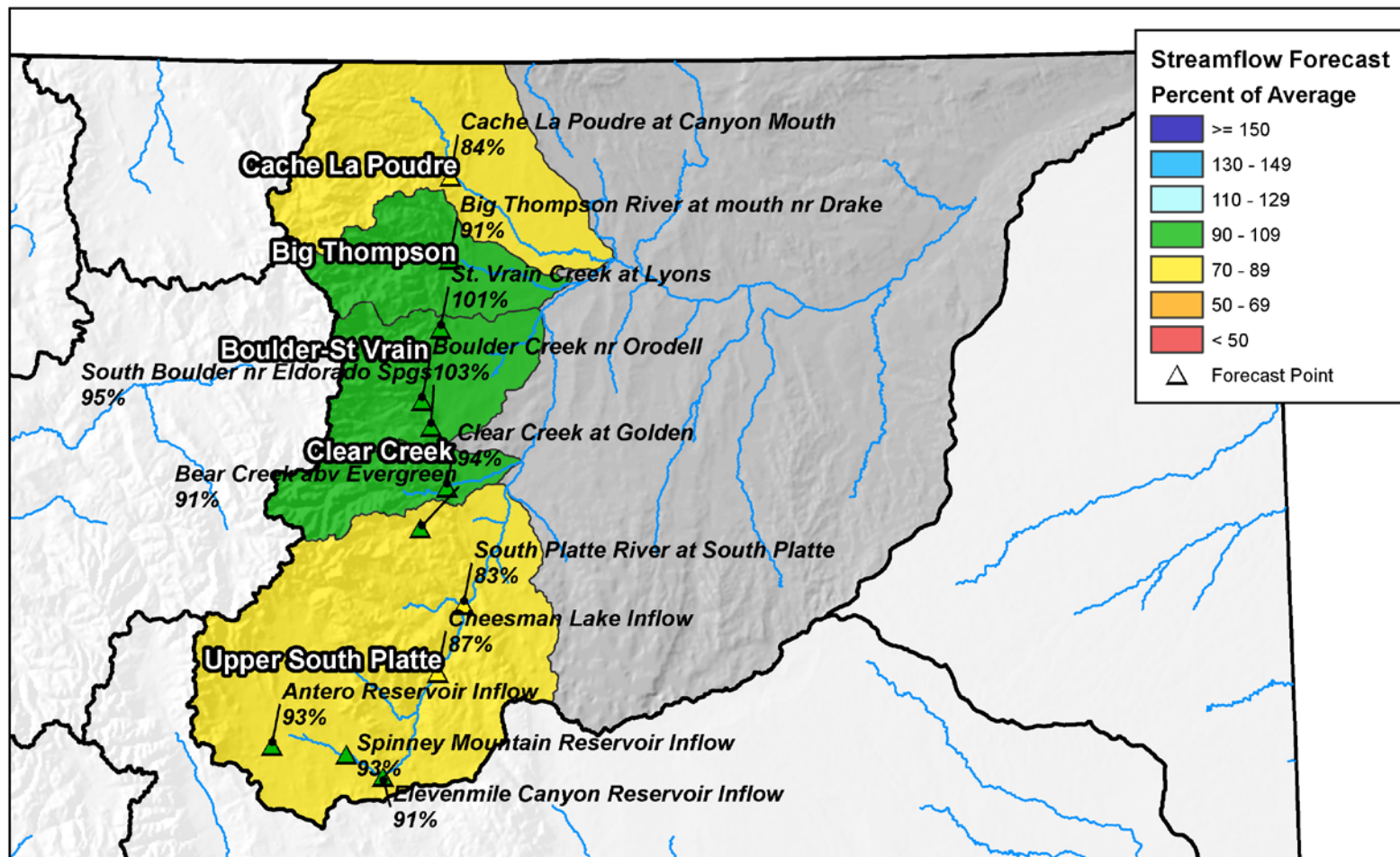
South Platte River Basin Monthly Snowpack Summary March 1, 2016



0 10 20 40 60 80 Miles

South Platte River Basin Streamflow Forecast Summary

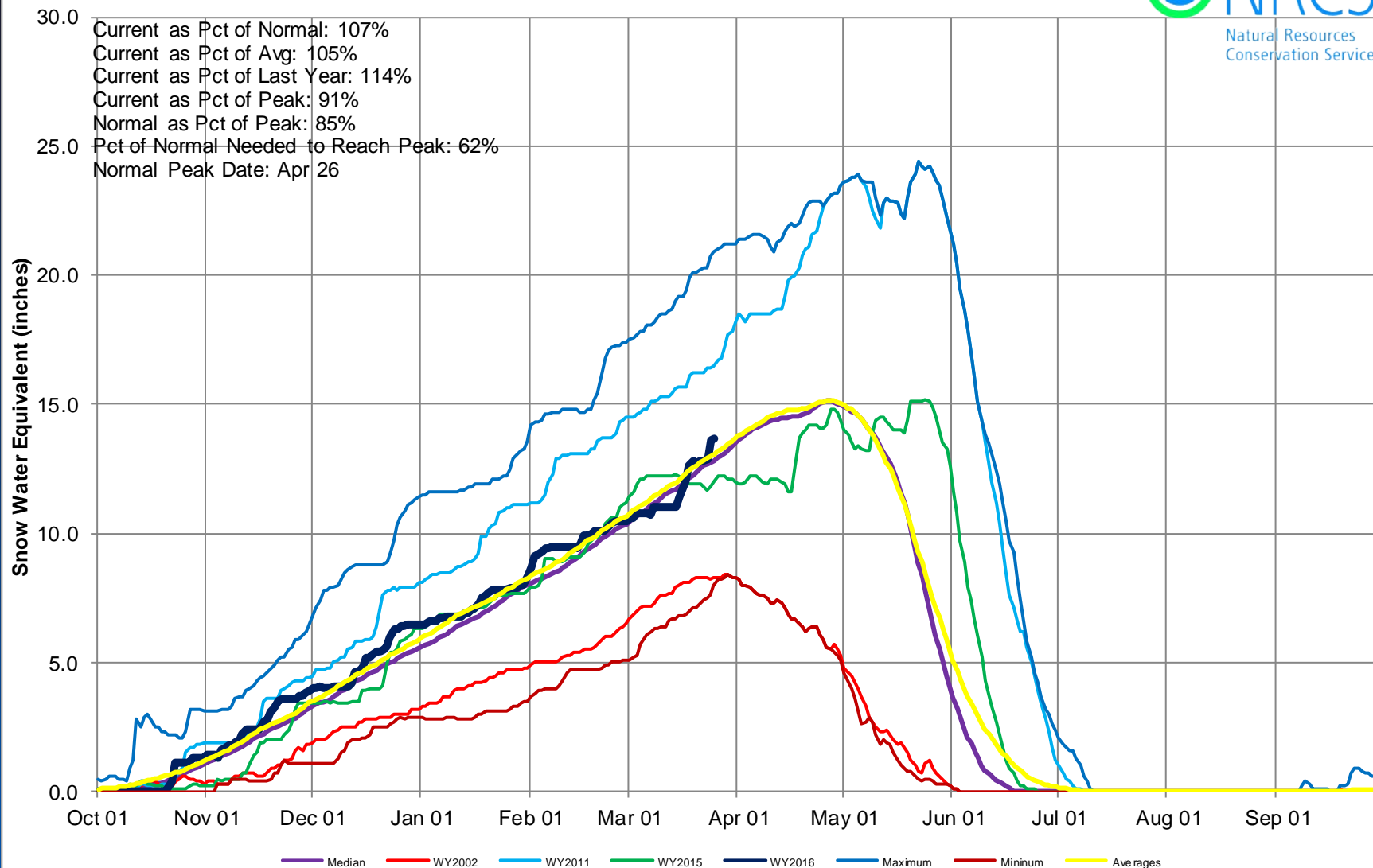
March 1, 2016





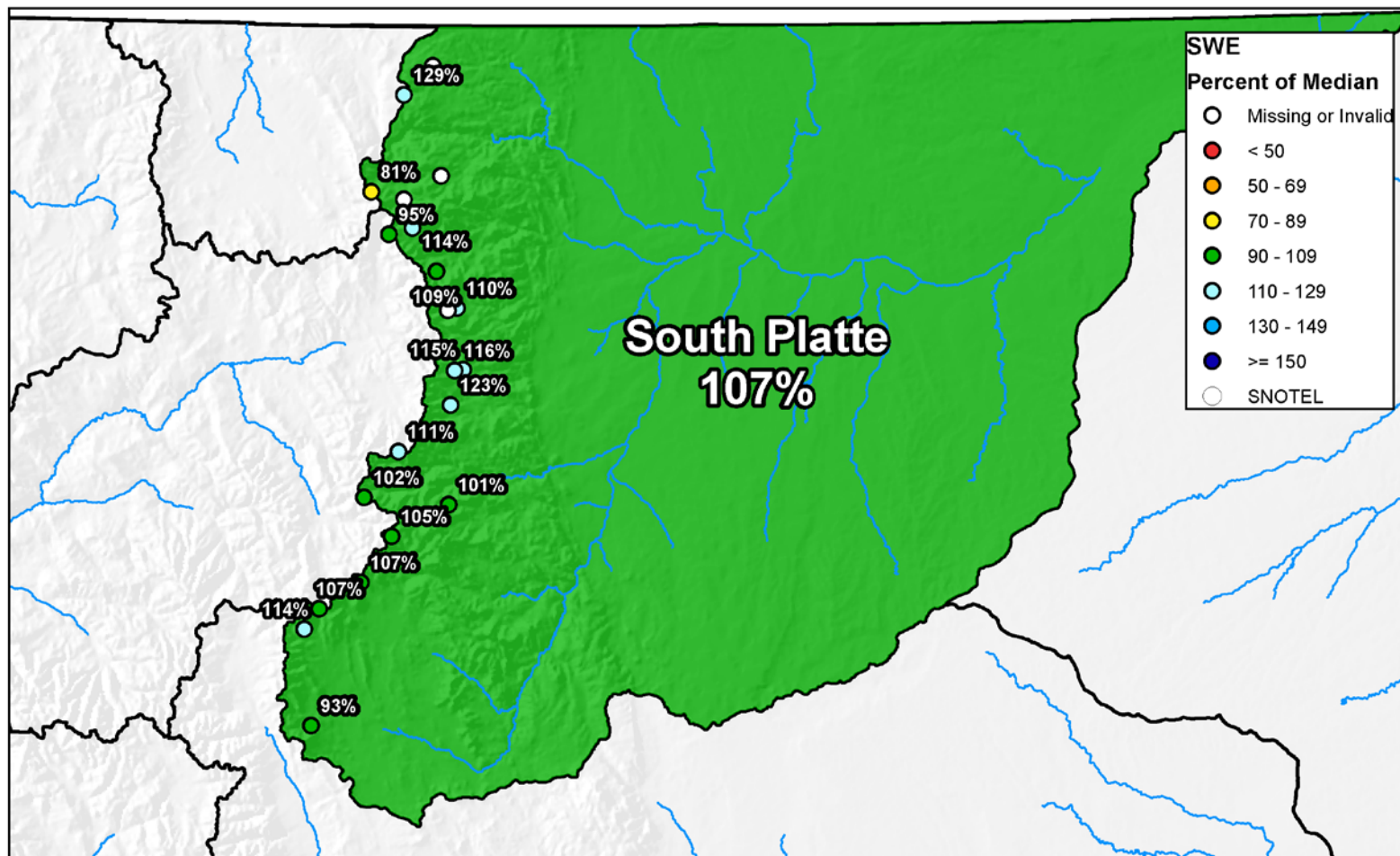
South Platte River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 25, 2016



South Platte River Basin Snow Water Equivalent (SWE) Summary

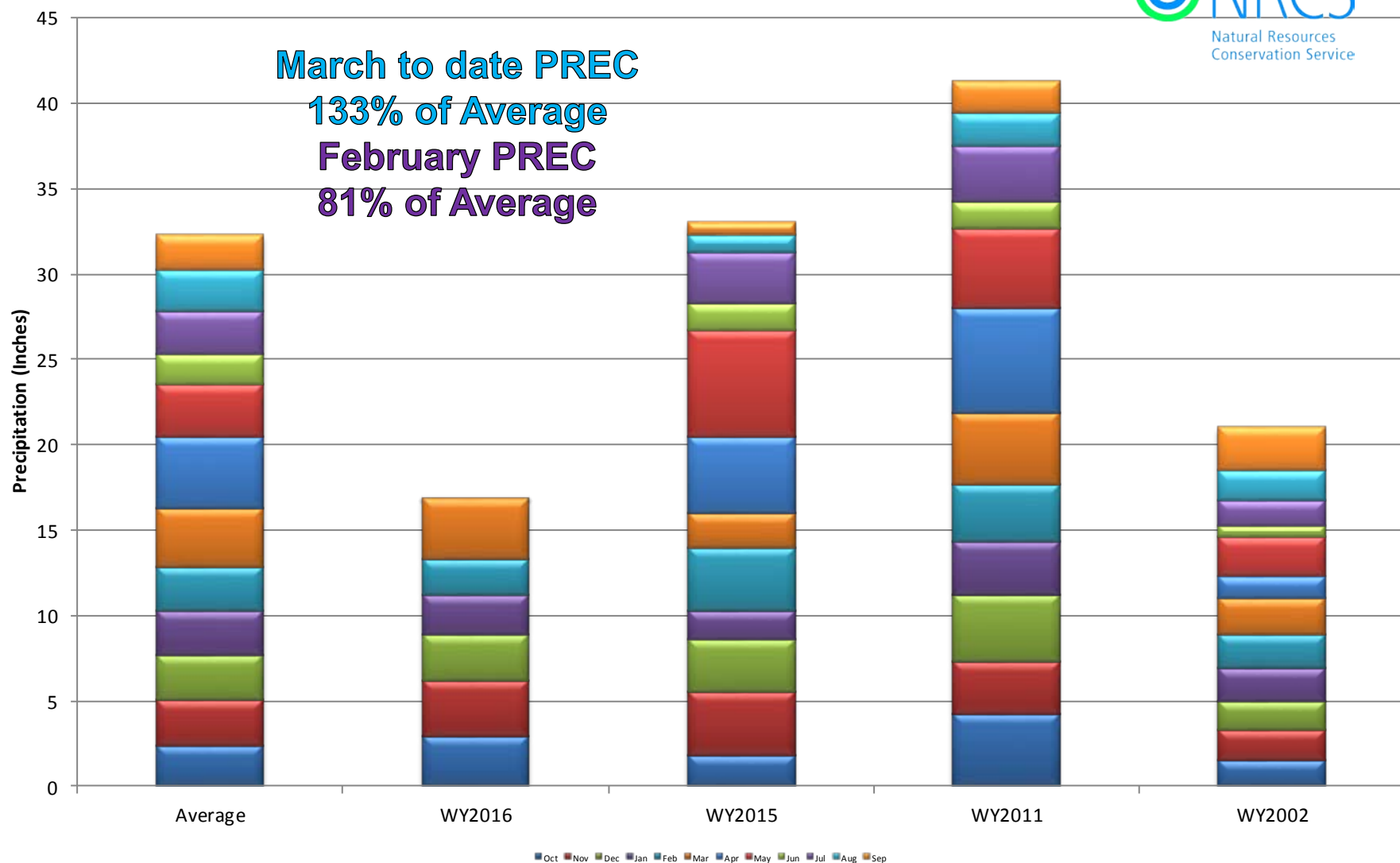
Current as of Mar 25, 2016



0 10 20 40 60 80 Miles

South Platte River Basin High/Low Monthly Precipitation Summary

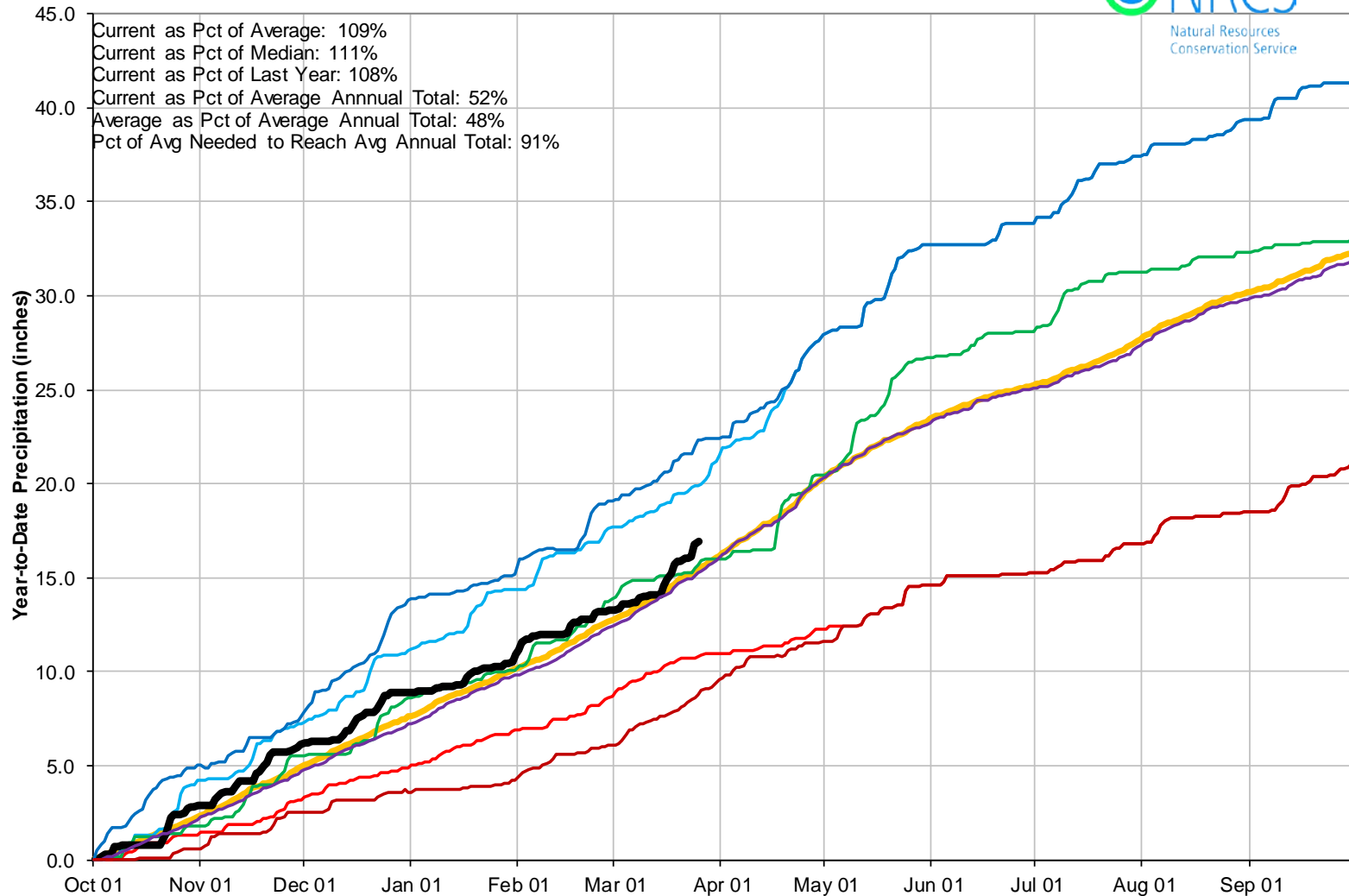
Based on Provisional SNOTEL data as of Mar 25, 2016



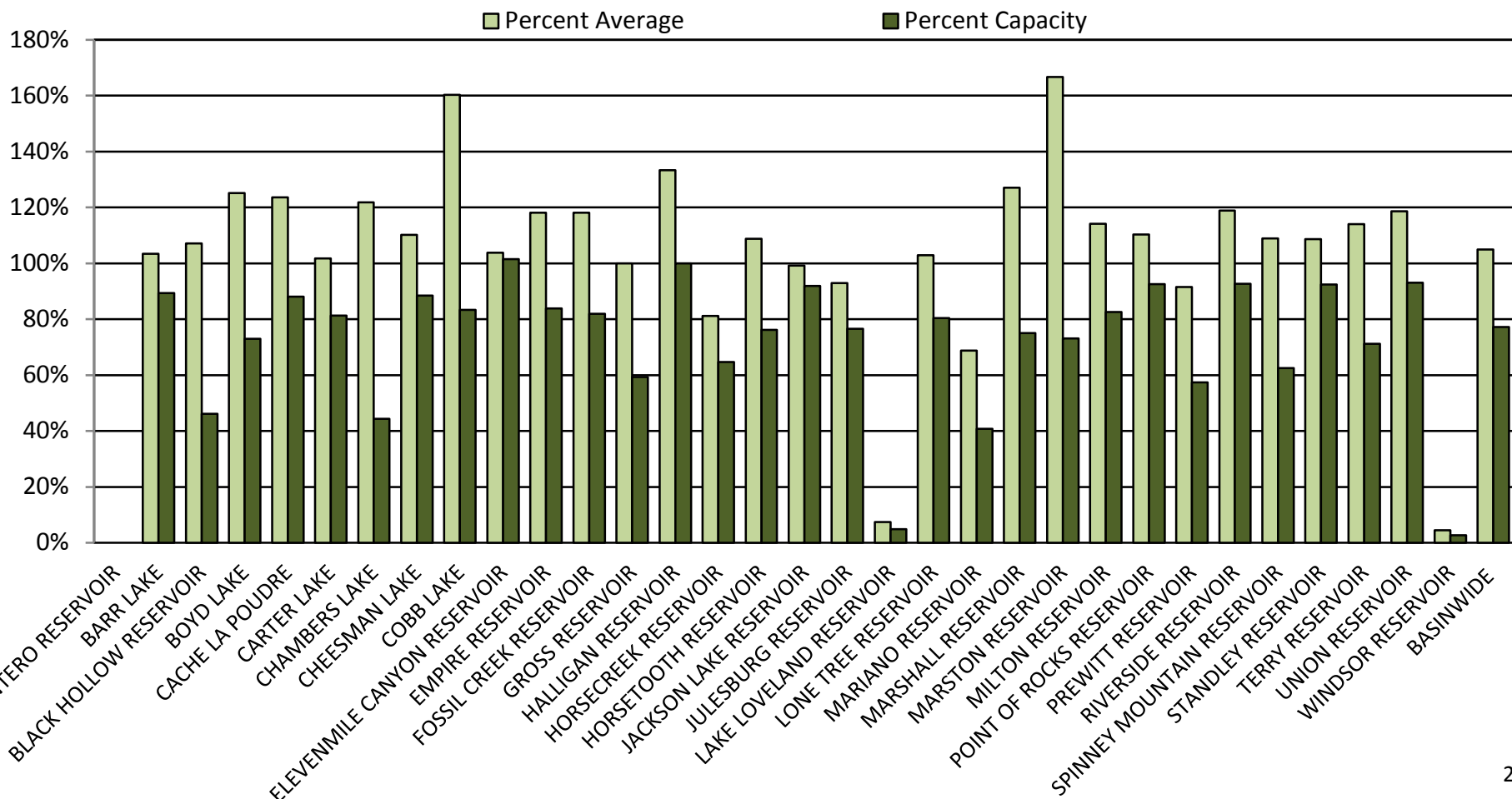


South Platte River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 25, 2016

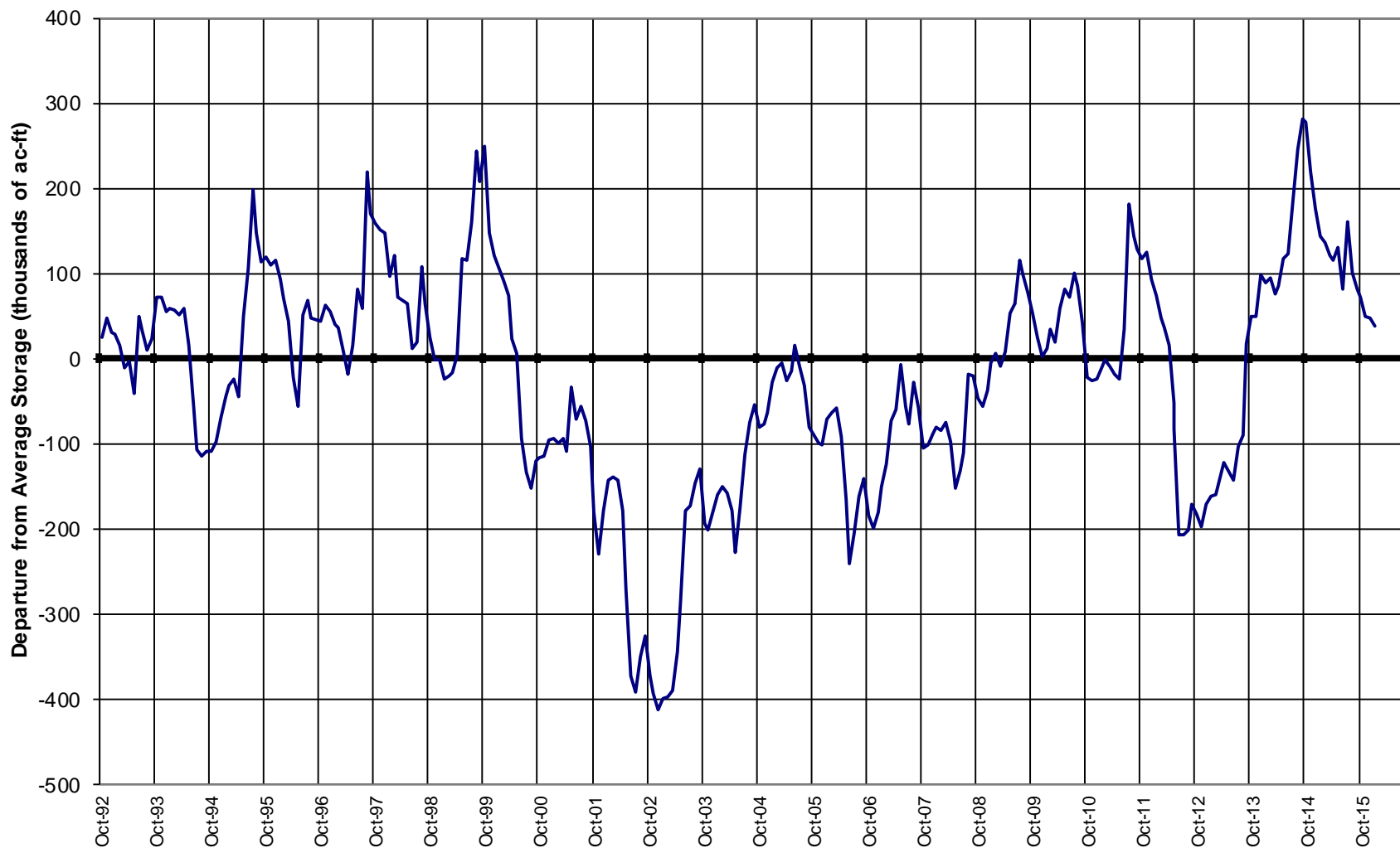


Reservoir Storage



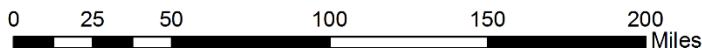
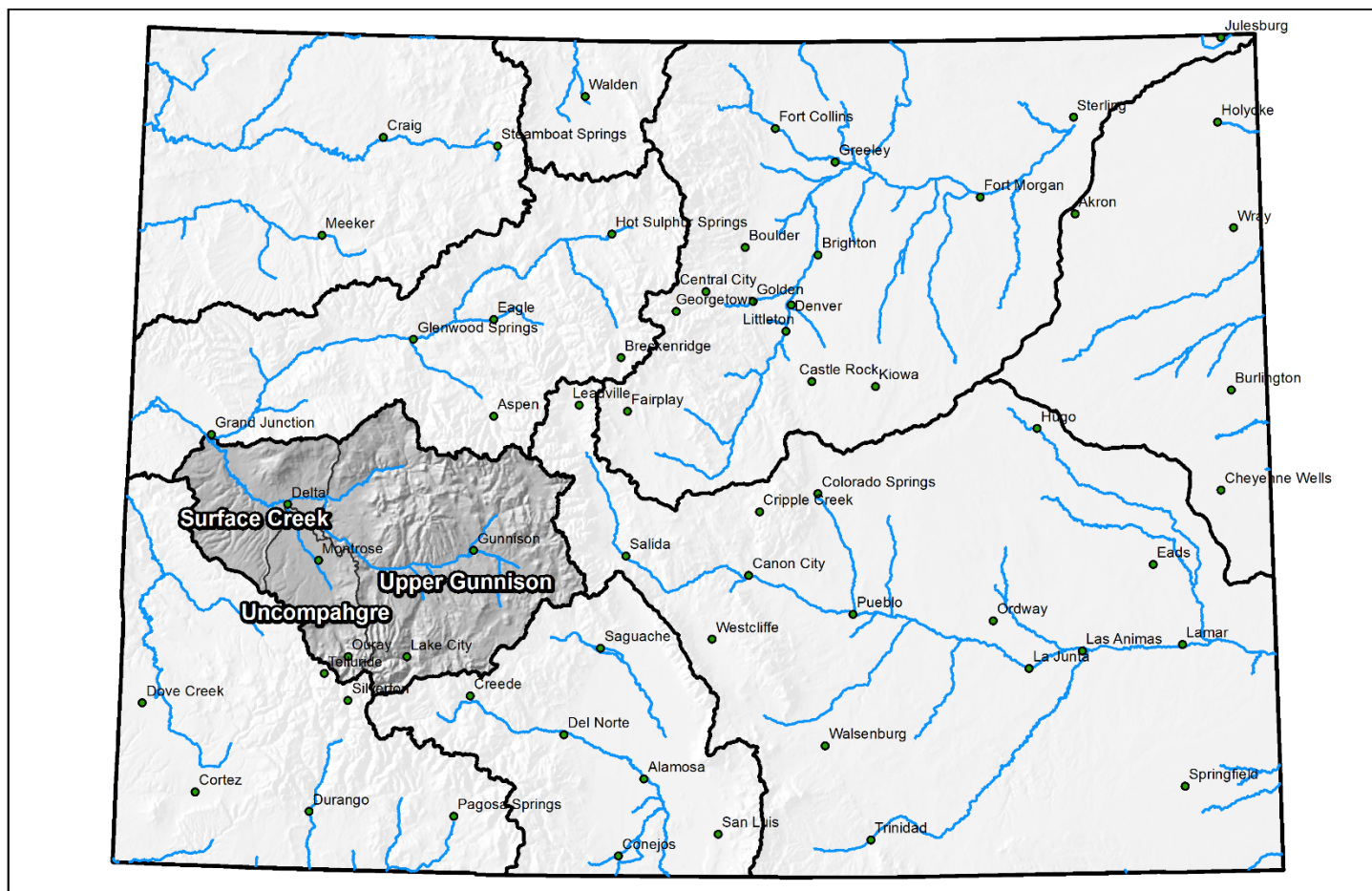


SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average

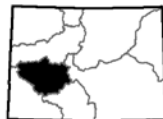
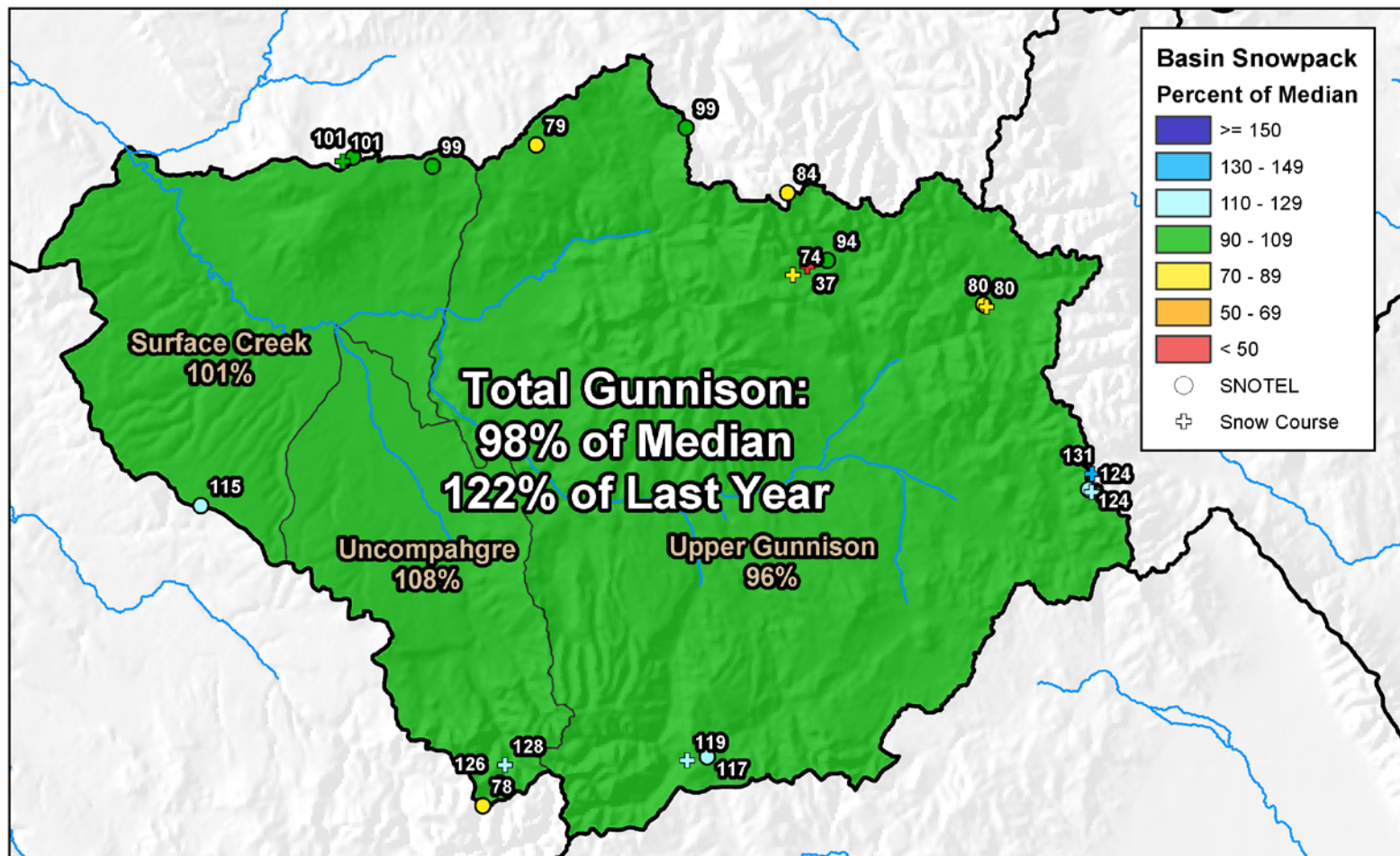


Major Basin Summary

Gunnison River Basin



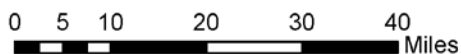
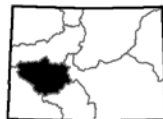
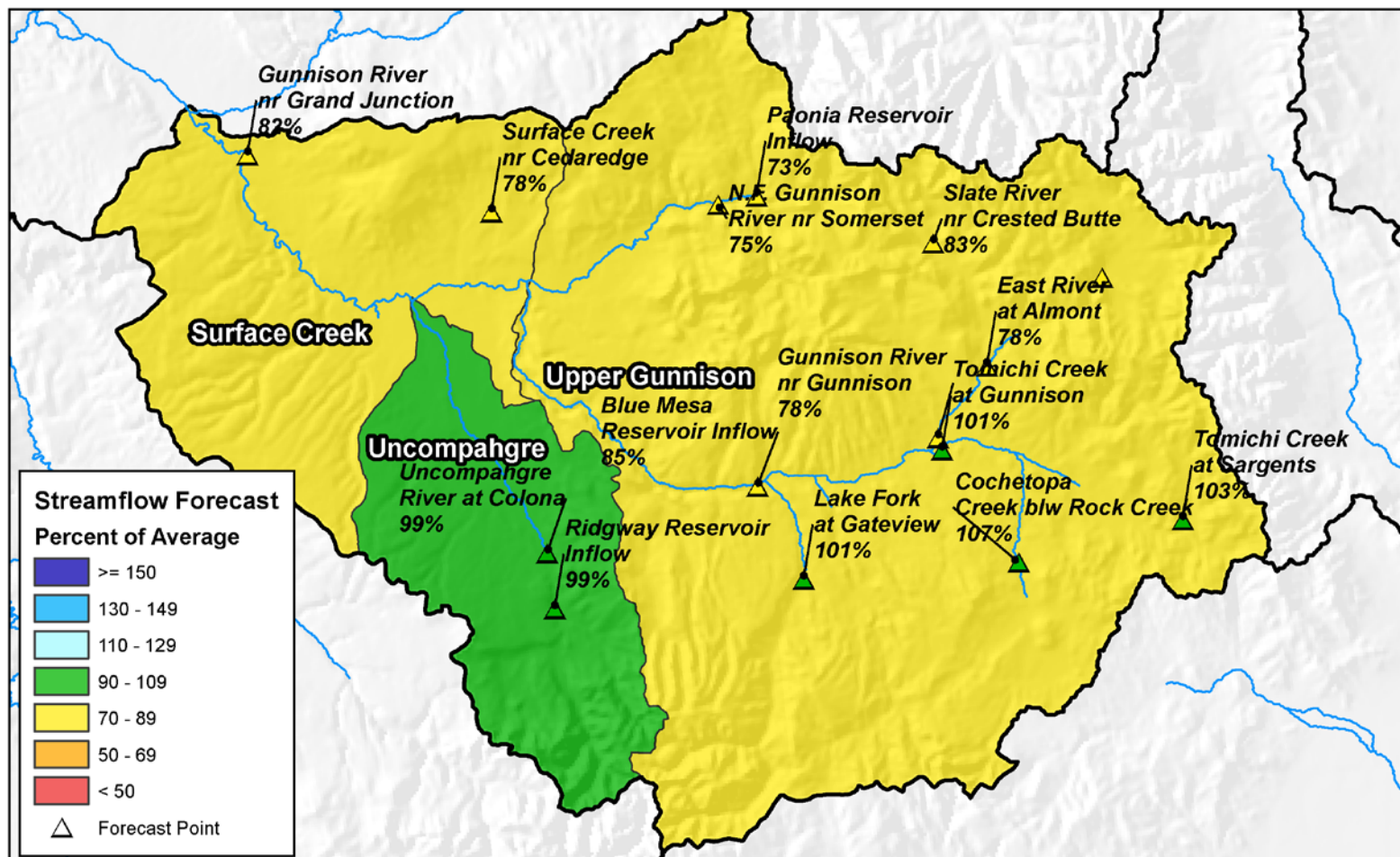
Gunnison River Basin Monthly Snowpack Summary March 1, 2016



0 5 10 20 30 40
Miles

Gunnison River Basin Water Supply Forecast Summary

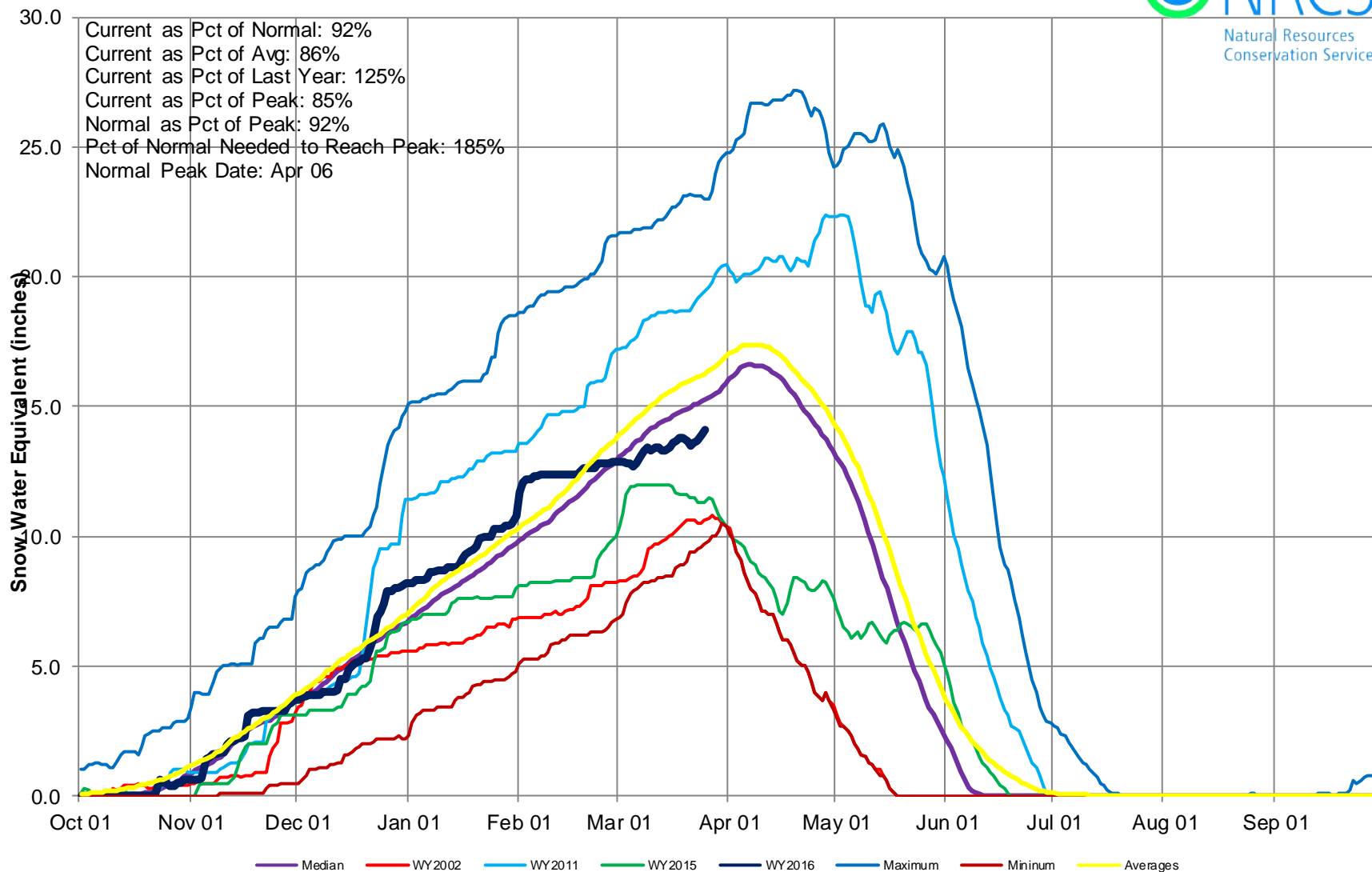
March 1, 2016





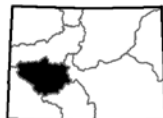
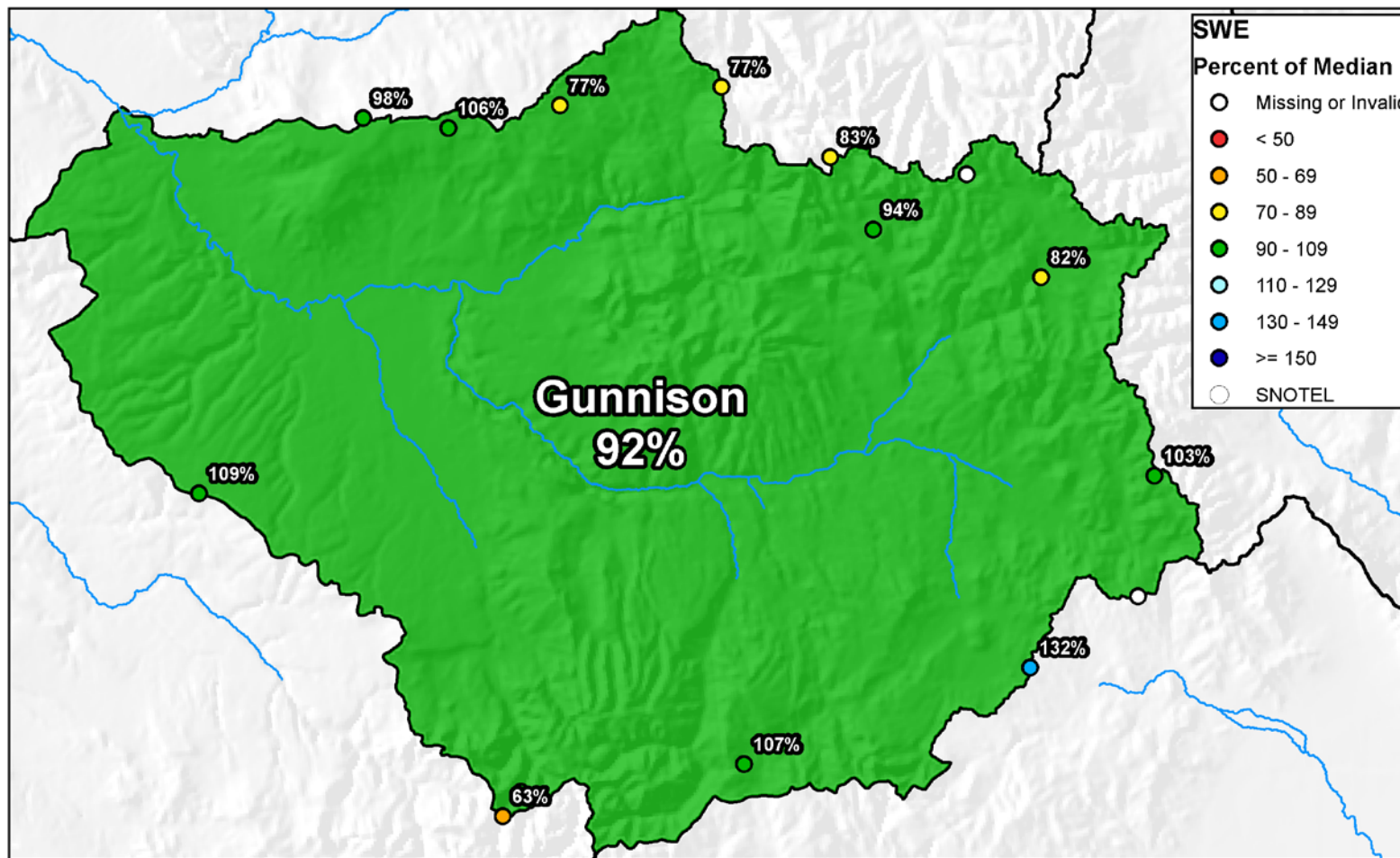
Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 25, 2016



Gunnison River Basin Snow Water Equivalent (SWE) Summary

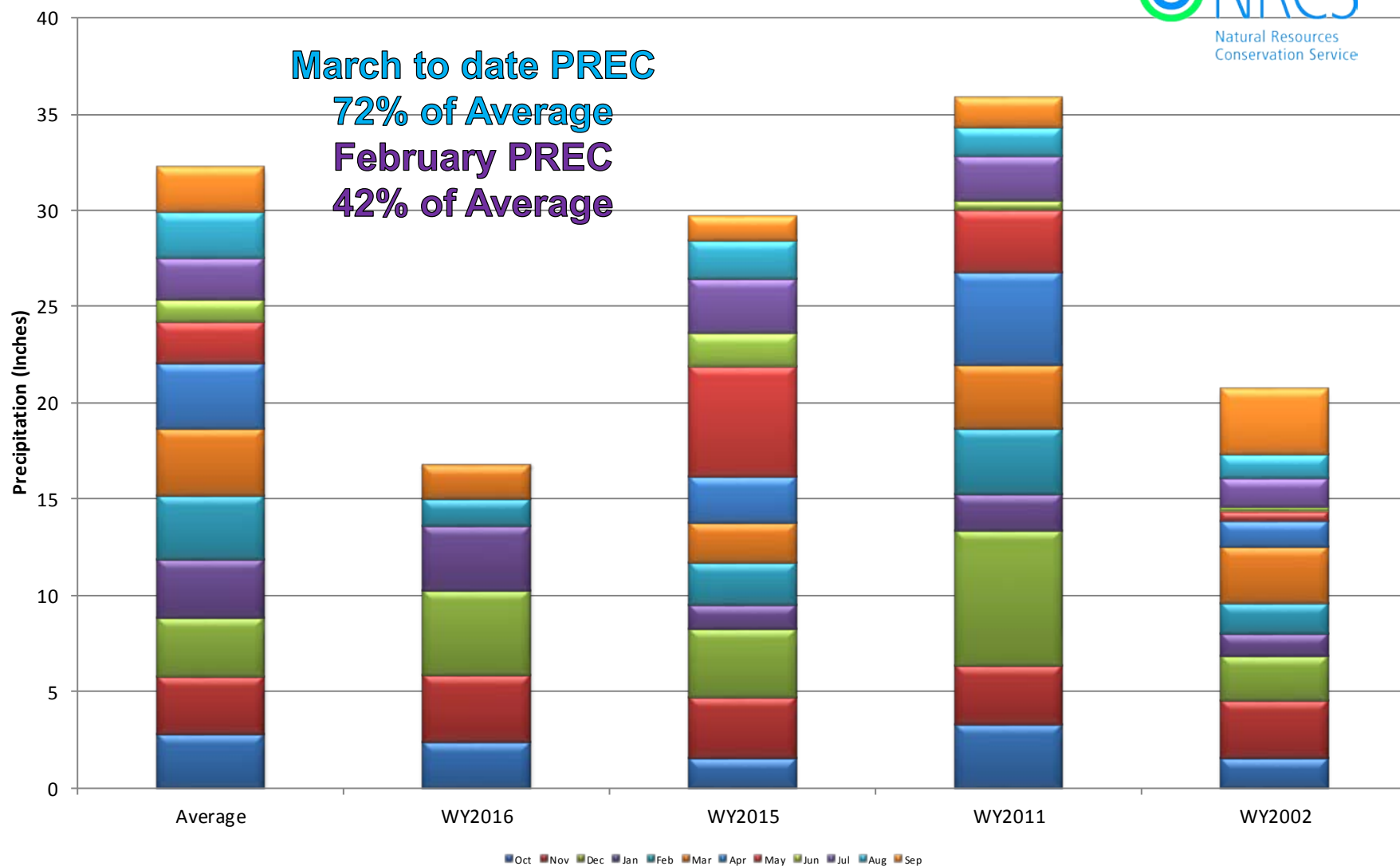
Current as of Mar 25, 2016



0 5 10 20 30 40 Miles

Gunnison River Basin High/Low Monthly Precipitation Summary

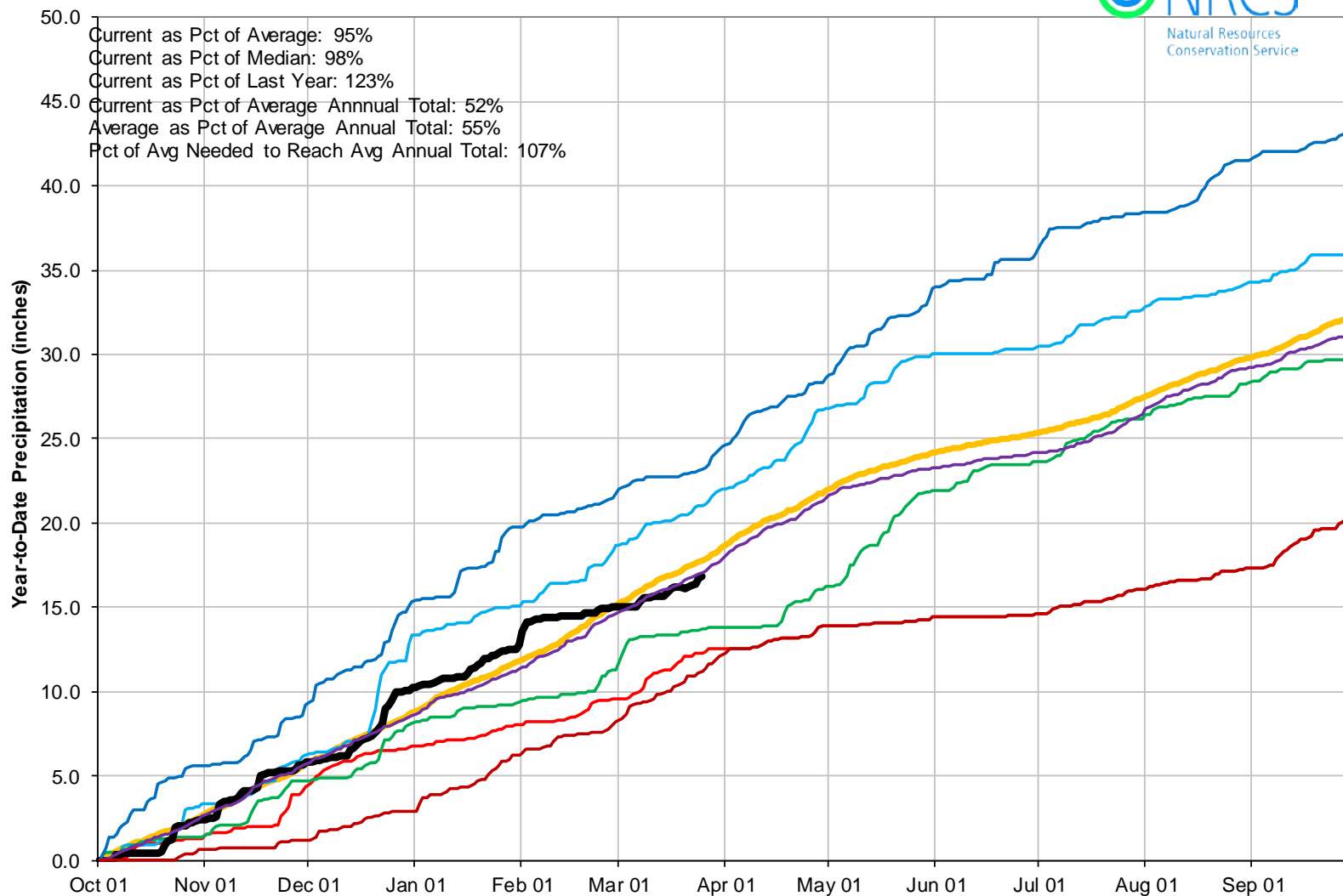
Based on Provisional SNOTEL data as of Mar 25, 2016

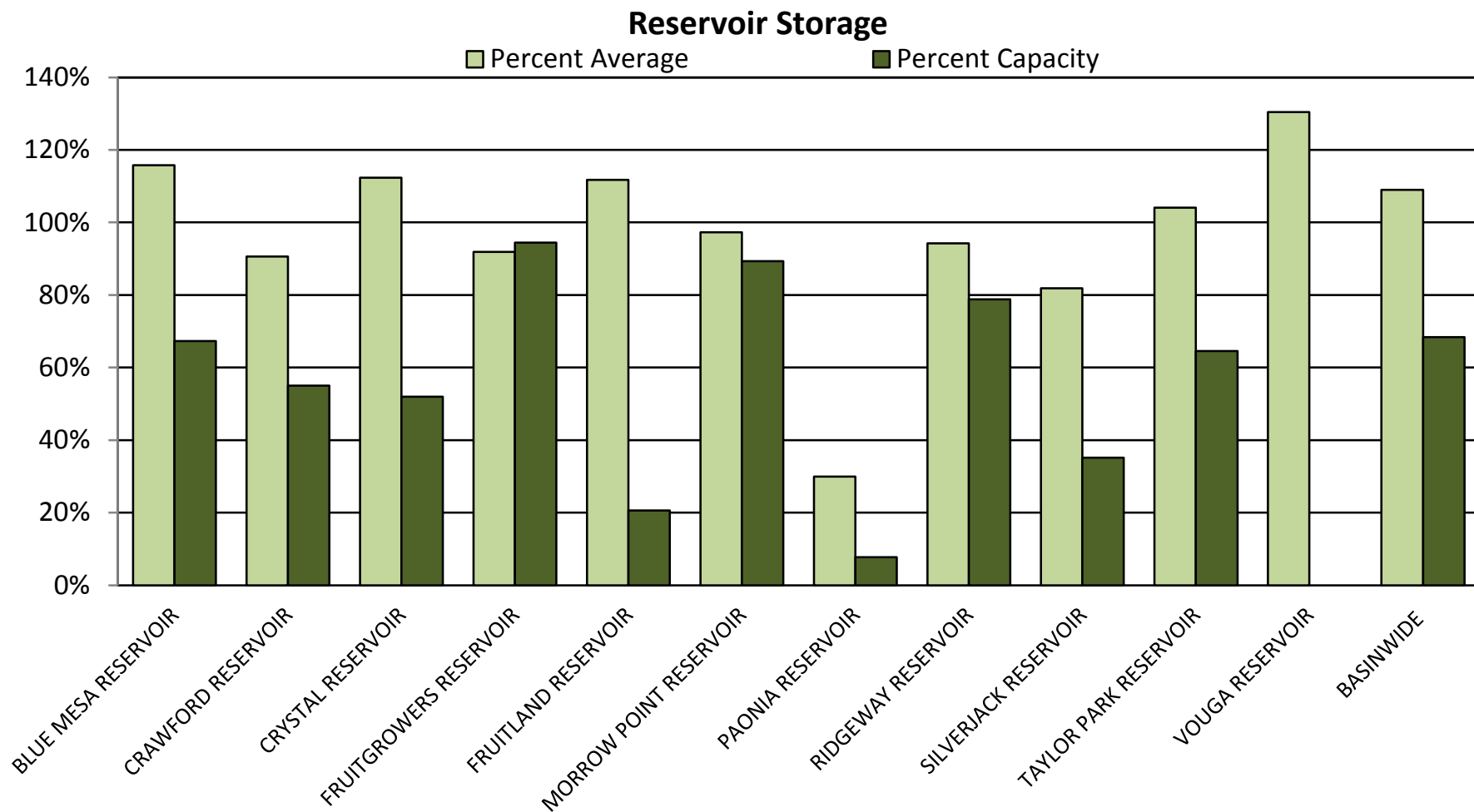




Gunnison River Basin High/Low Year-to-Date Precipitation Summary

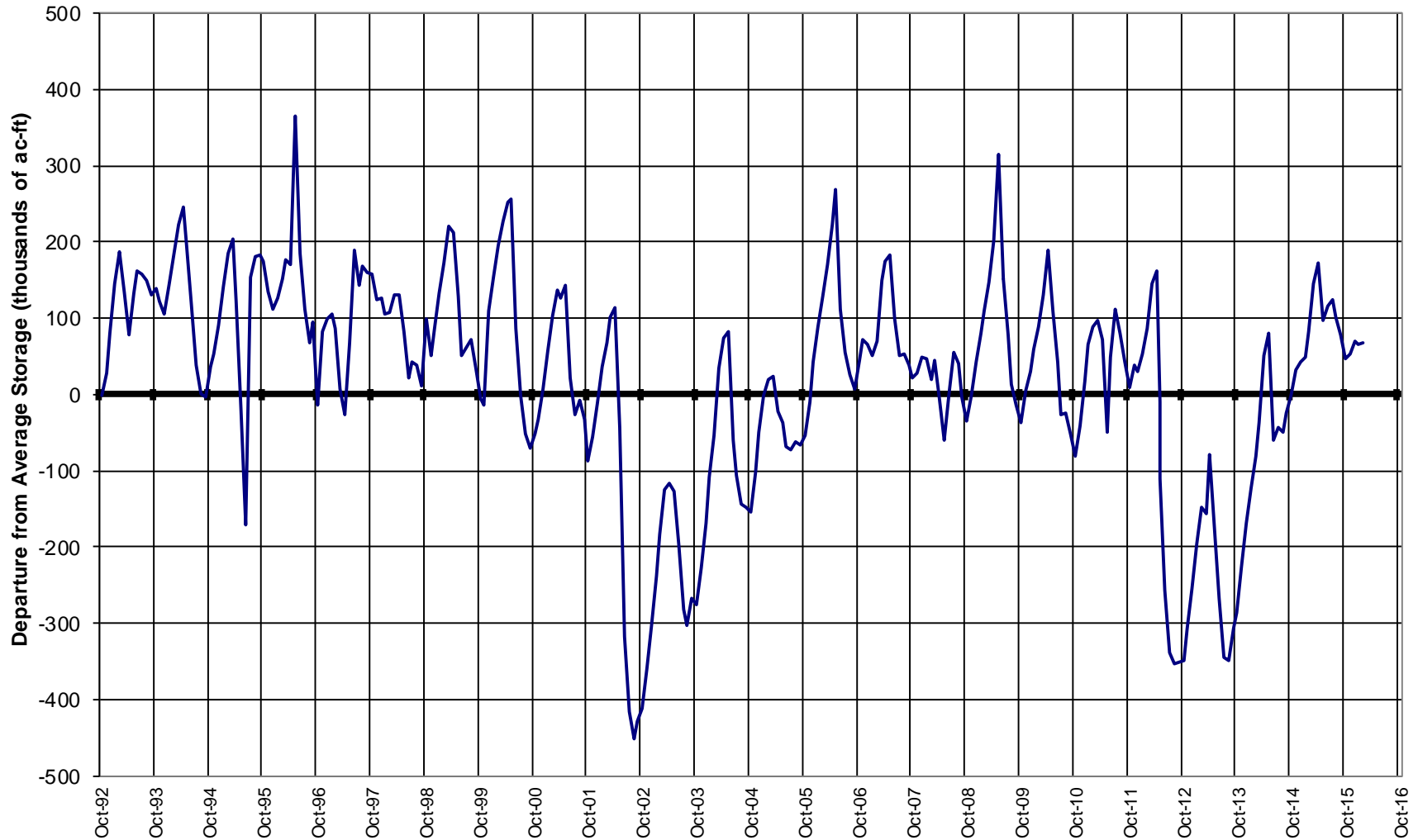
Based on Provisional SNOTEL data as of Mar 25, 2016





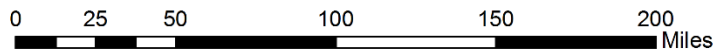
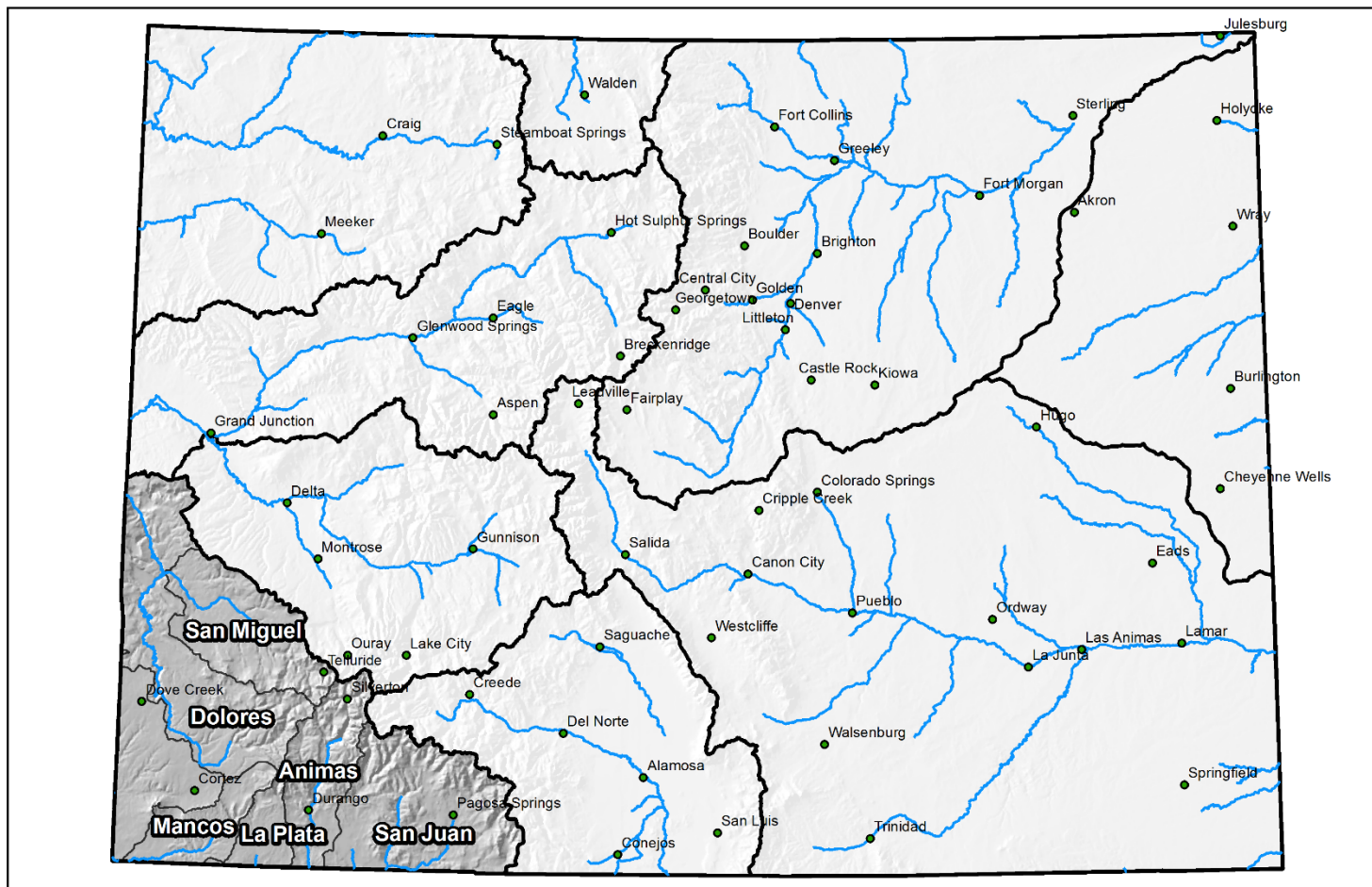


GUNNISON RIVER BASIN Reservoir Storage Departure from Average

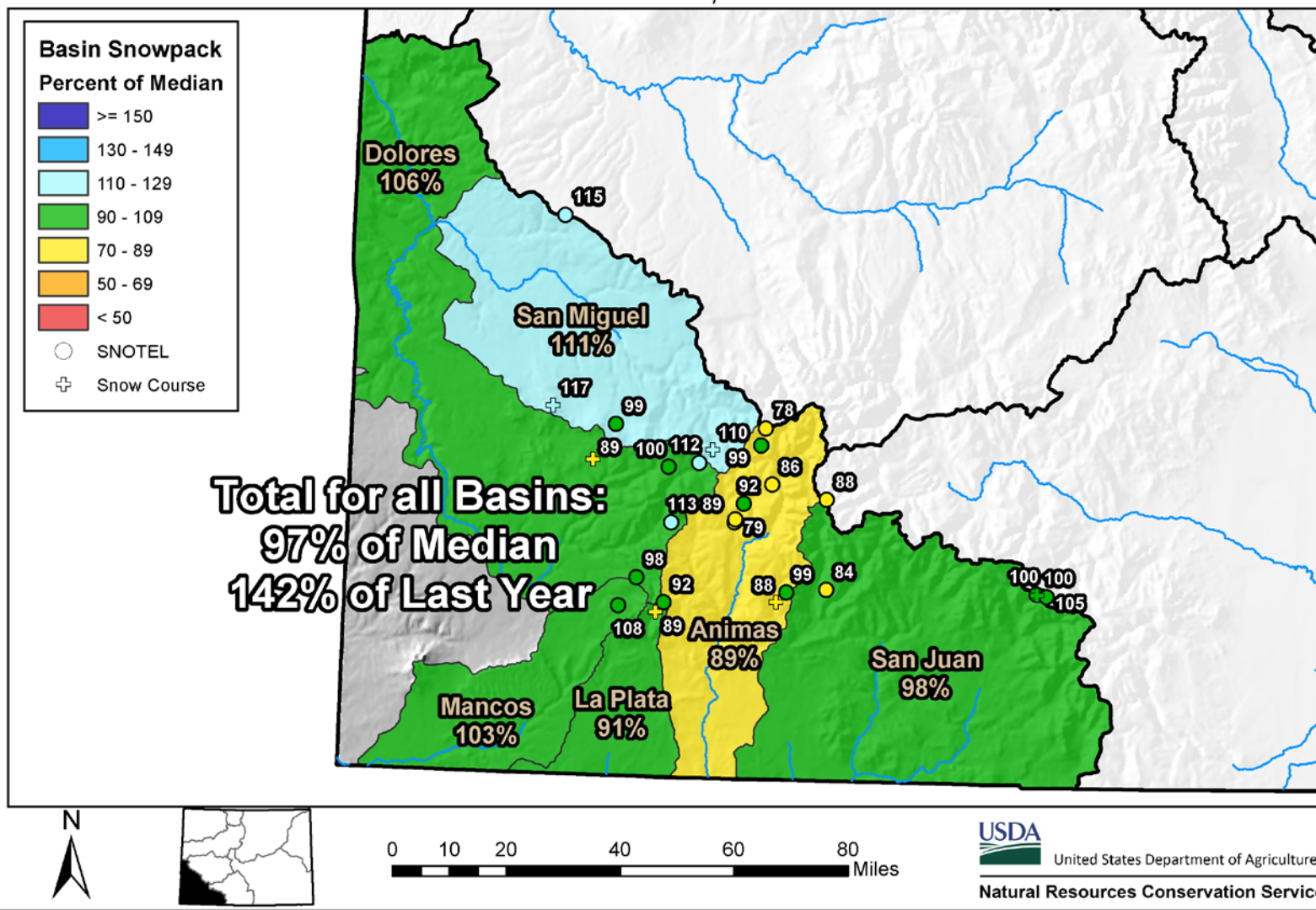


Major Basin Summary

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

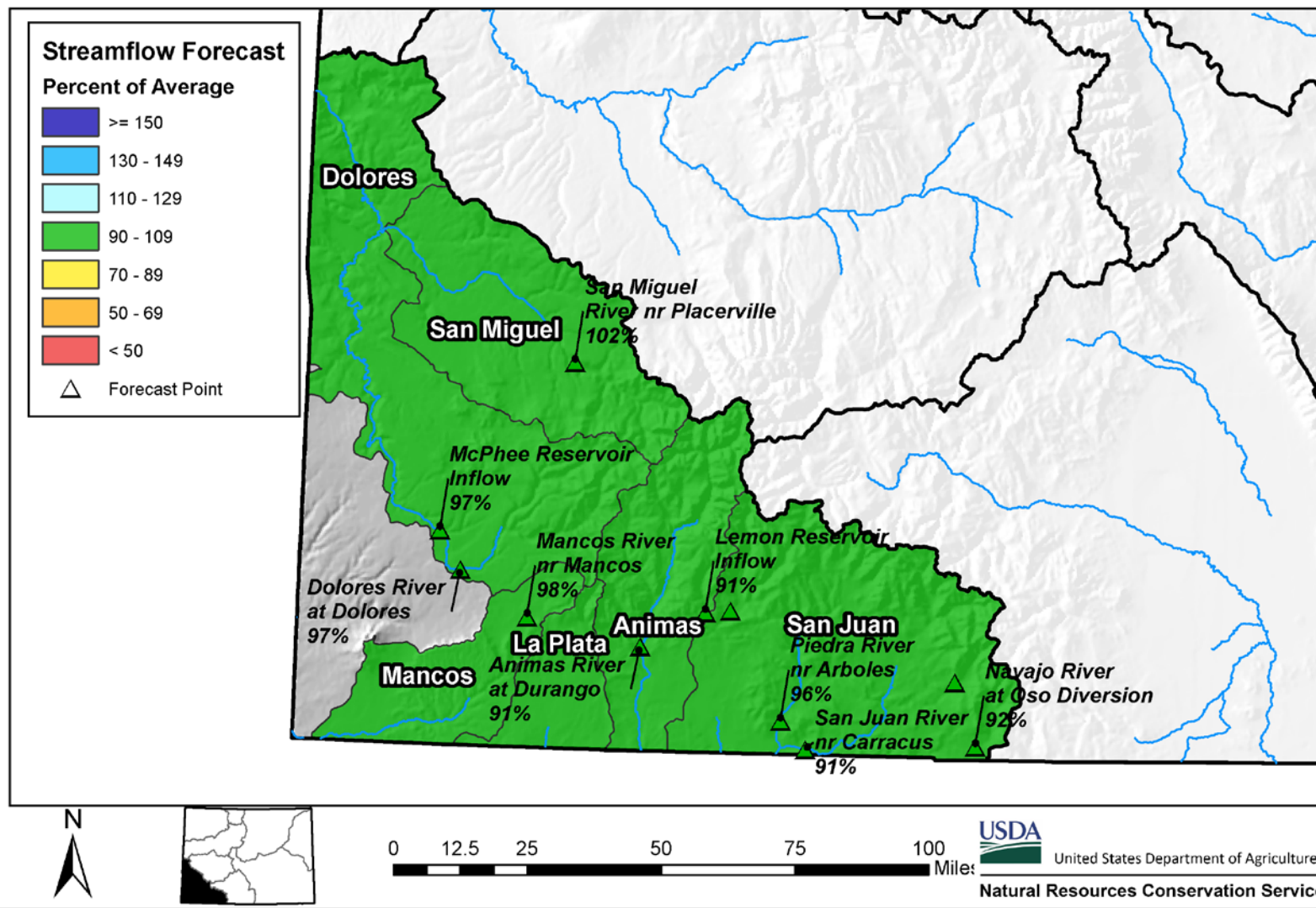


San Miguel, Dolores, Animas, and San Juan River Basins Monthly Snowpack Summary March 1, 2016



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

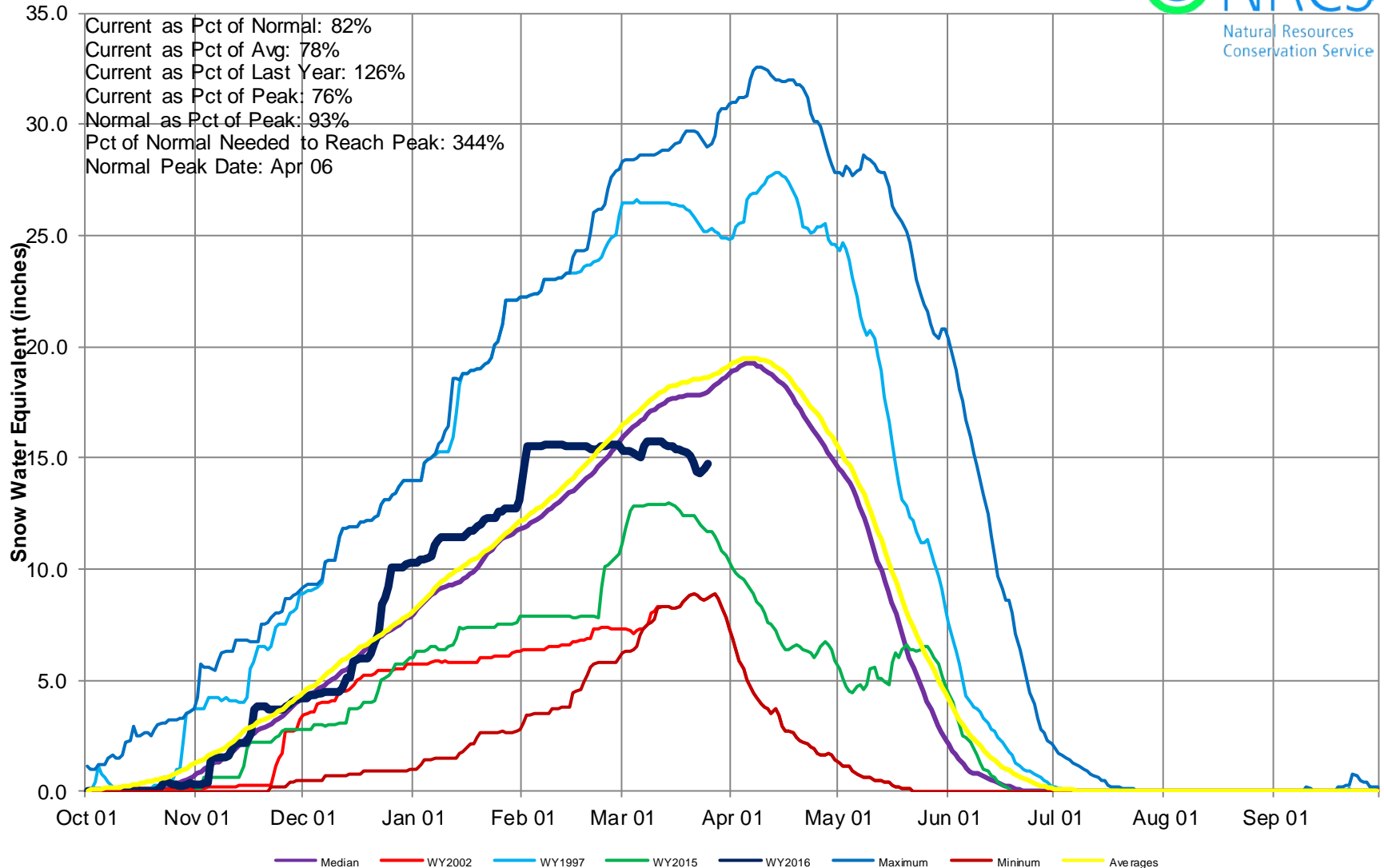
March 1, 2016





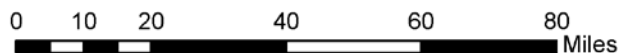
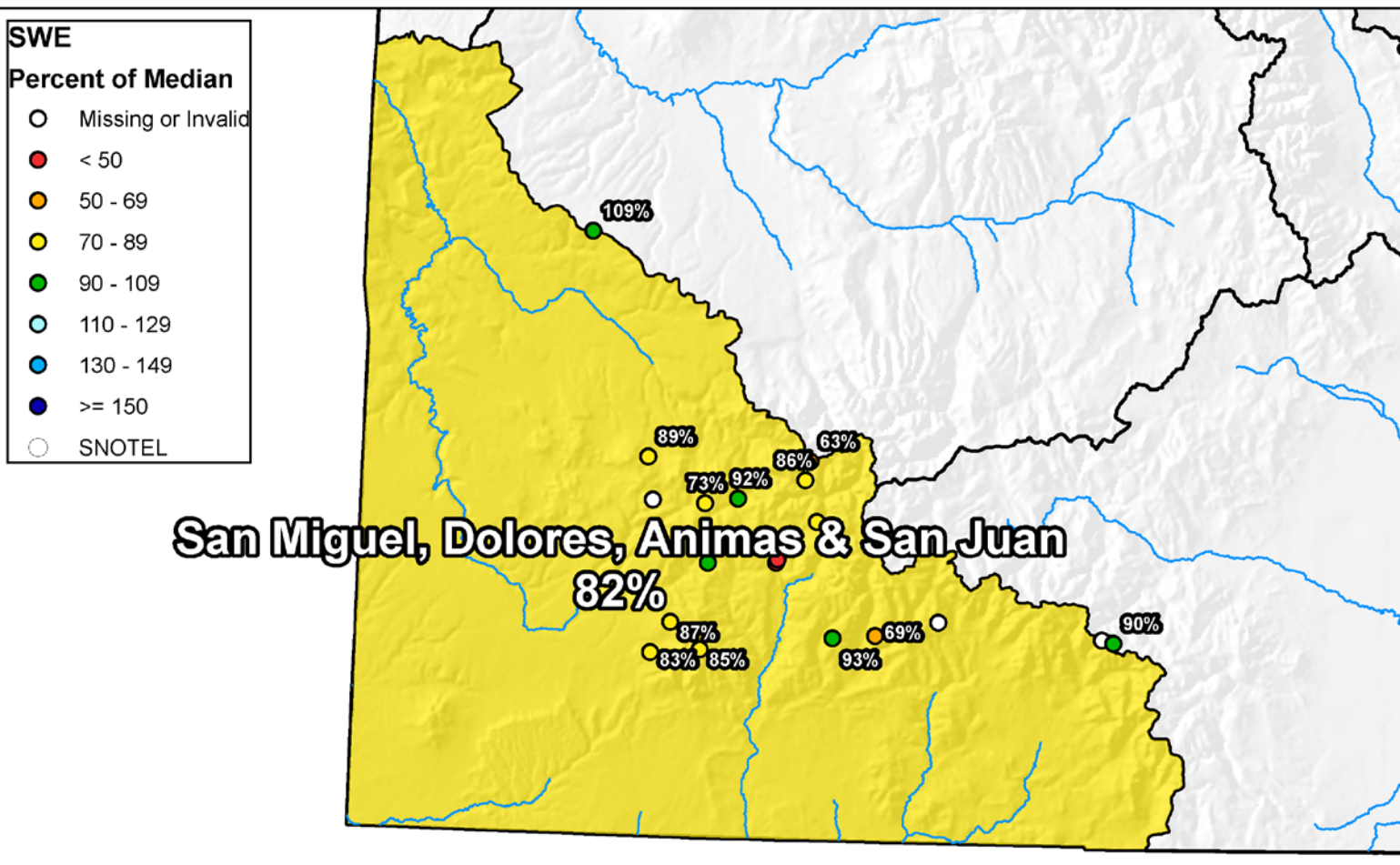
San Miguel, Dolores, Animas and San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 25, 2016



San Miguel, Dolores, Animas, and San Juan River Basins Snow Water Equivalent (SWE) Summary

Current as of Mar 25, 2016

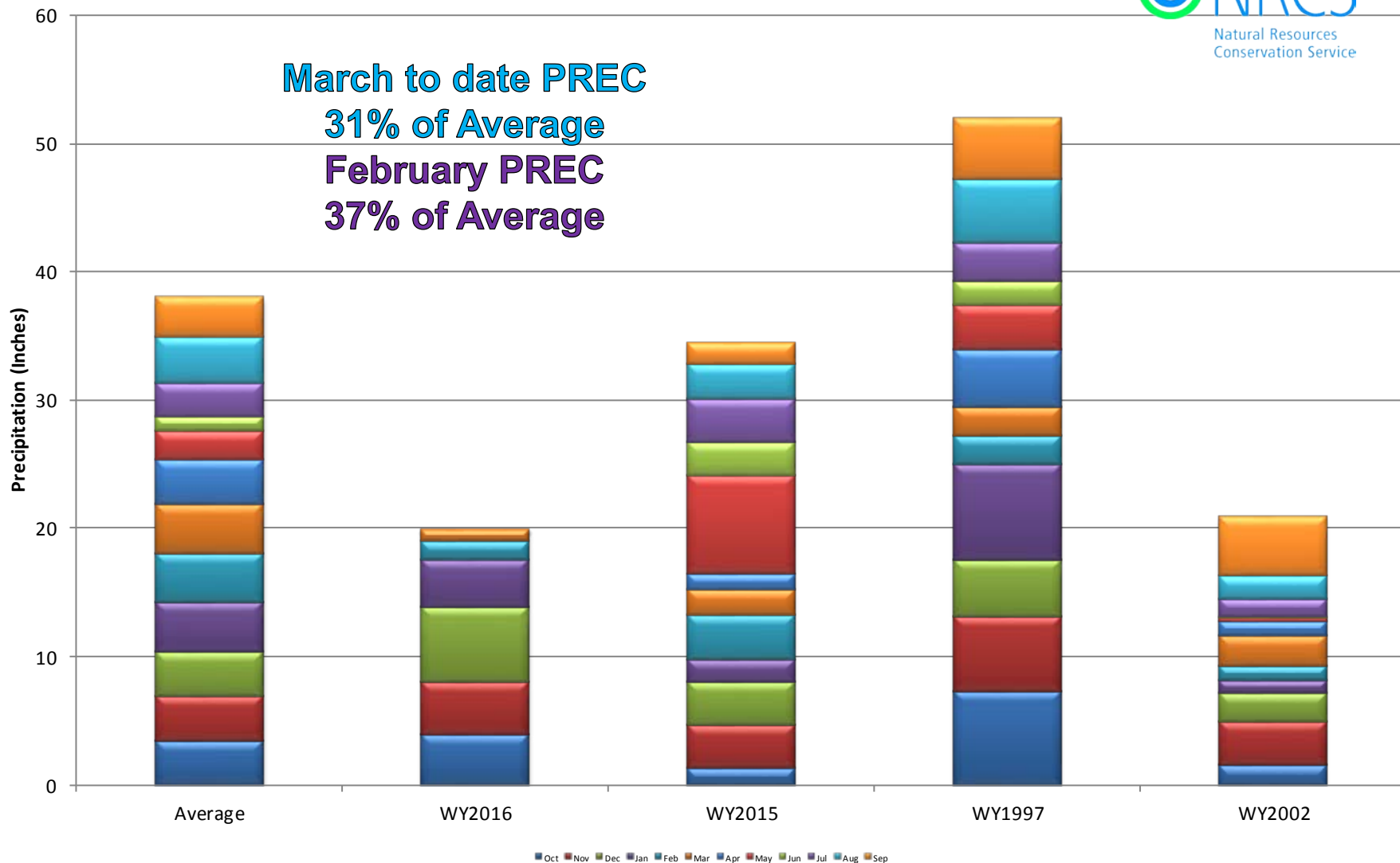




San Miguel, Dolores, Animas & San Juan River Basins High/Low Monthly Precipitation Summary



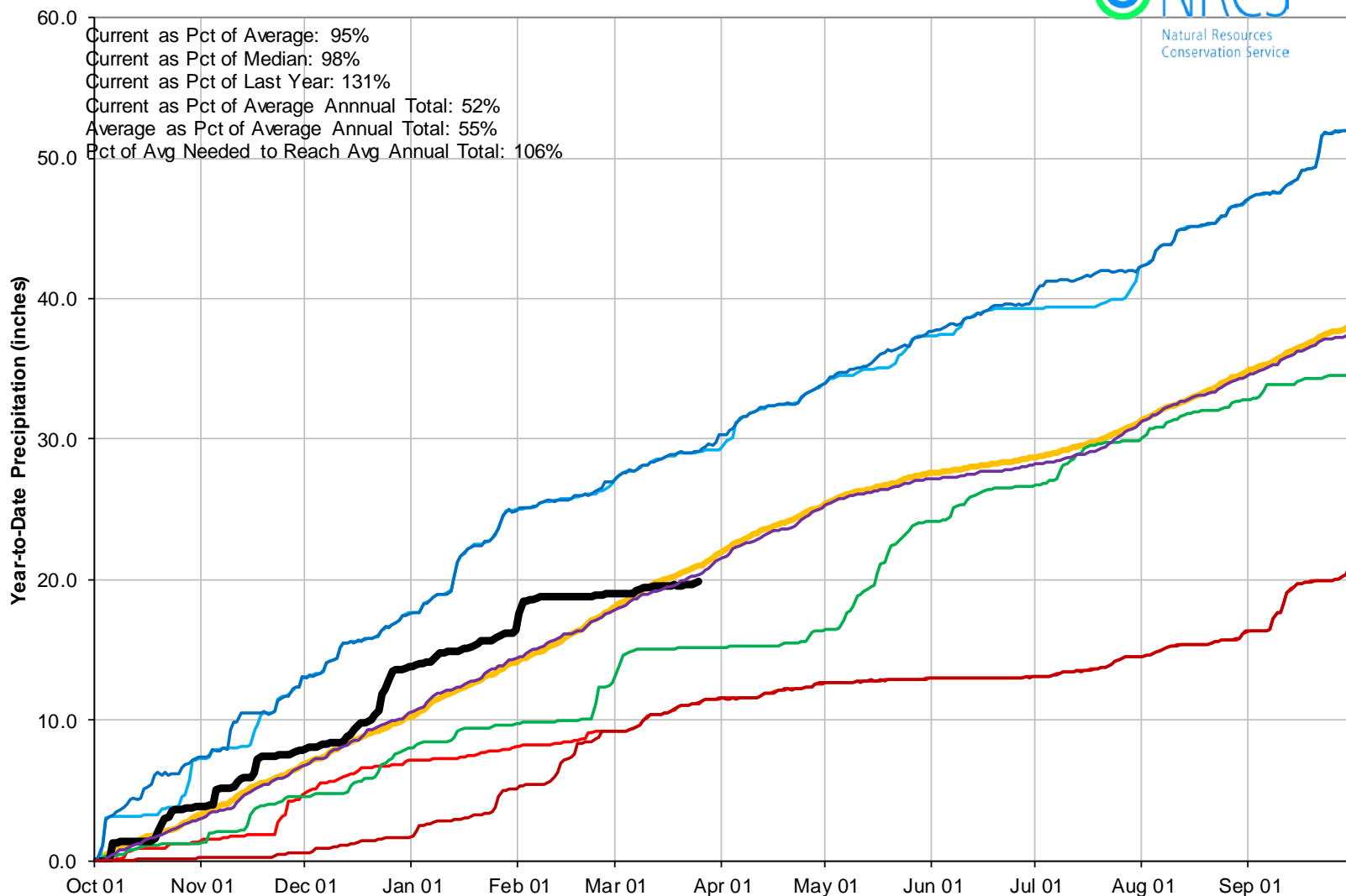
March to date PREC
31% of Average
February PREC
37% of Average



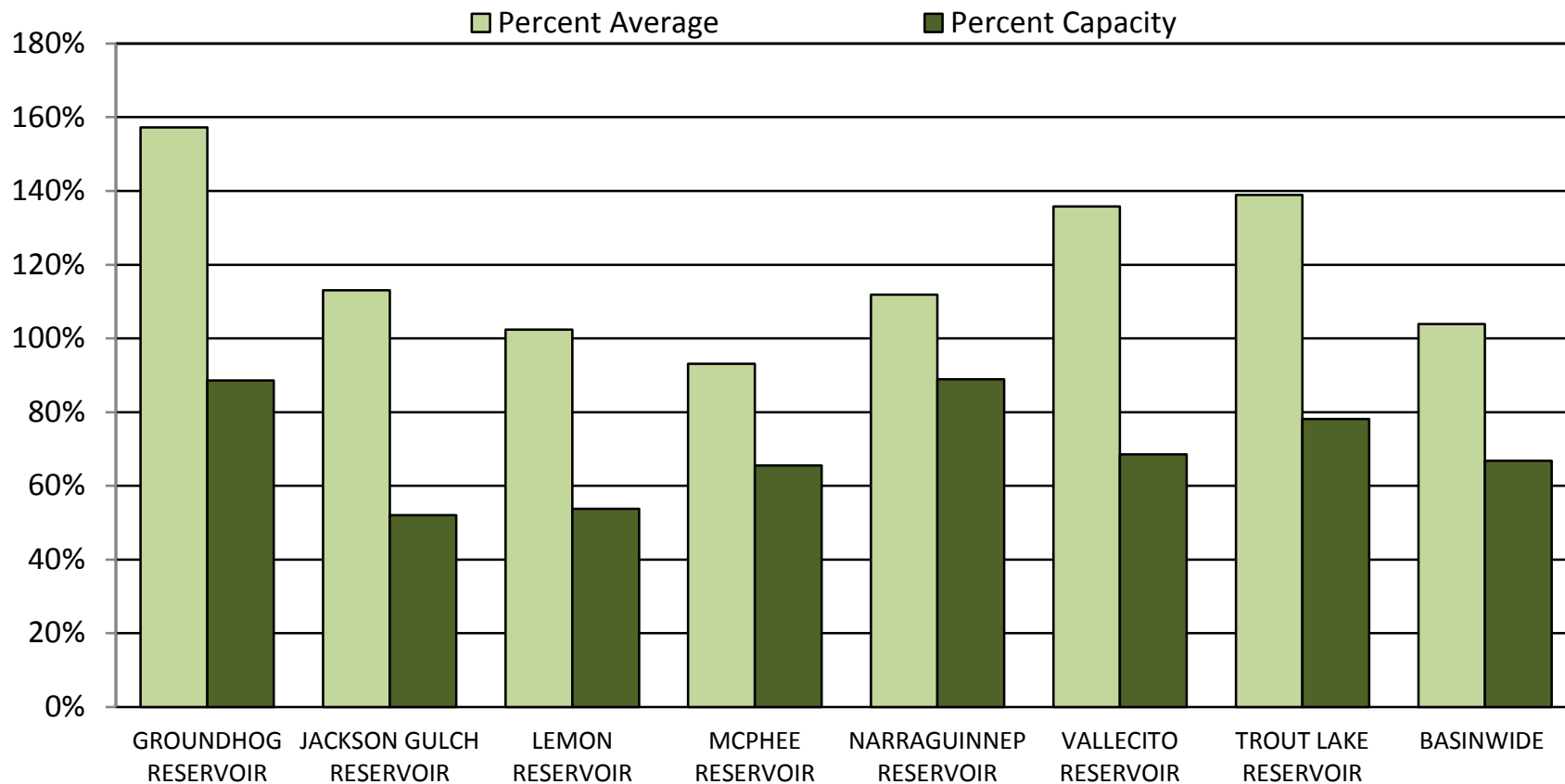


San Miguel, Dolores, Animas & San Juan River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 25, 2016



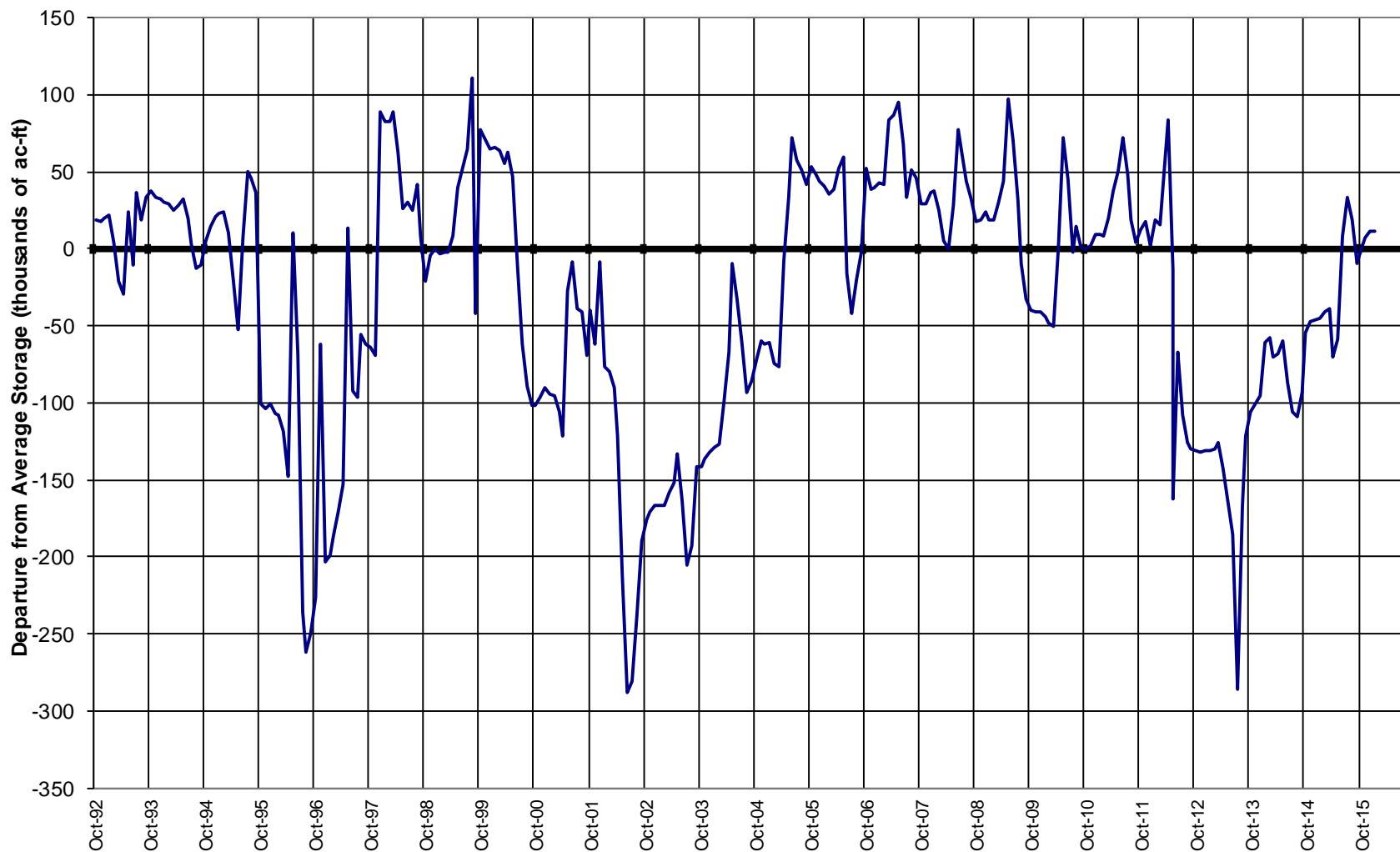
Reservoir Storage





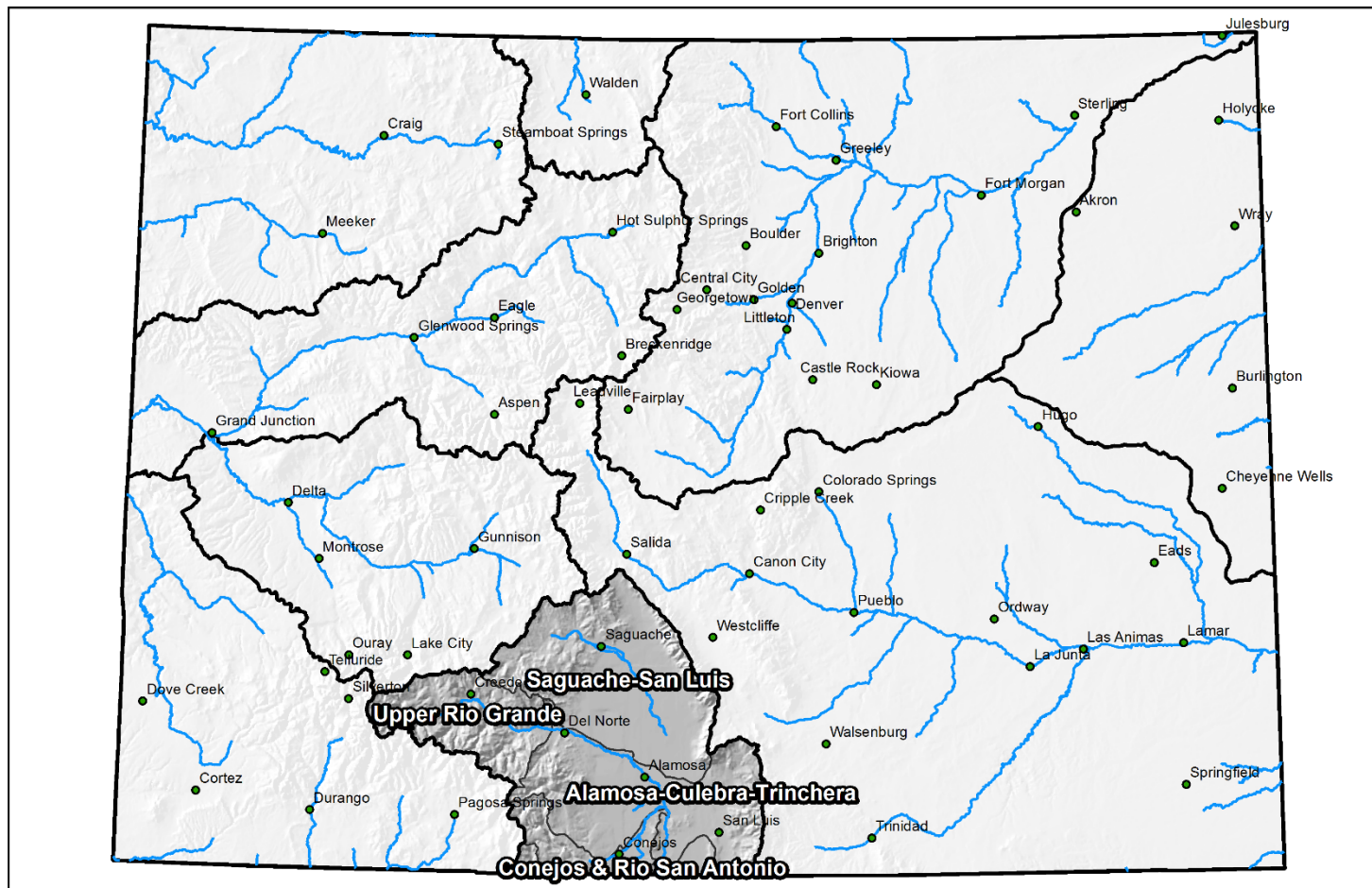
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

Reservoir Storage
Departure from Average



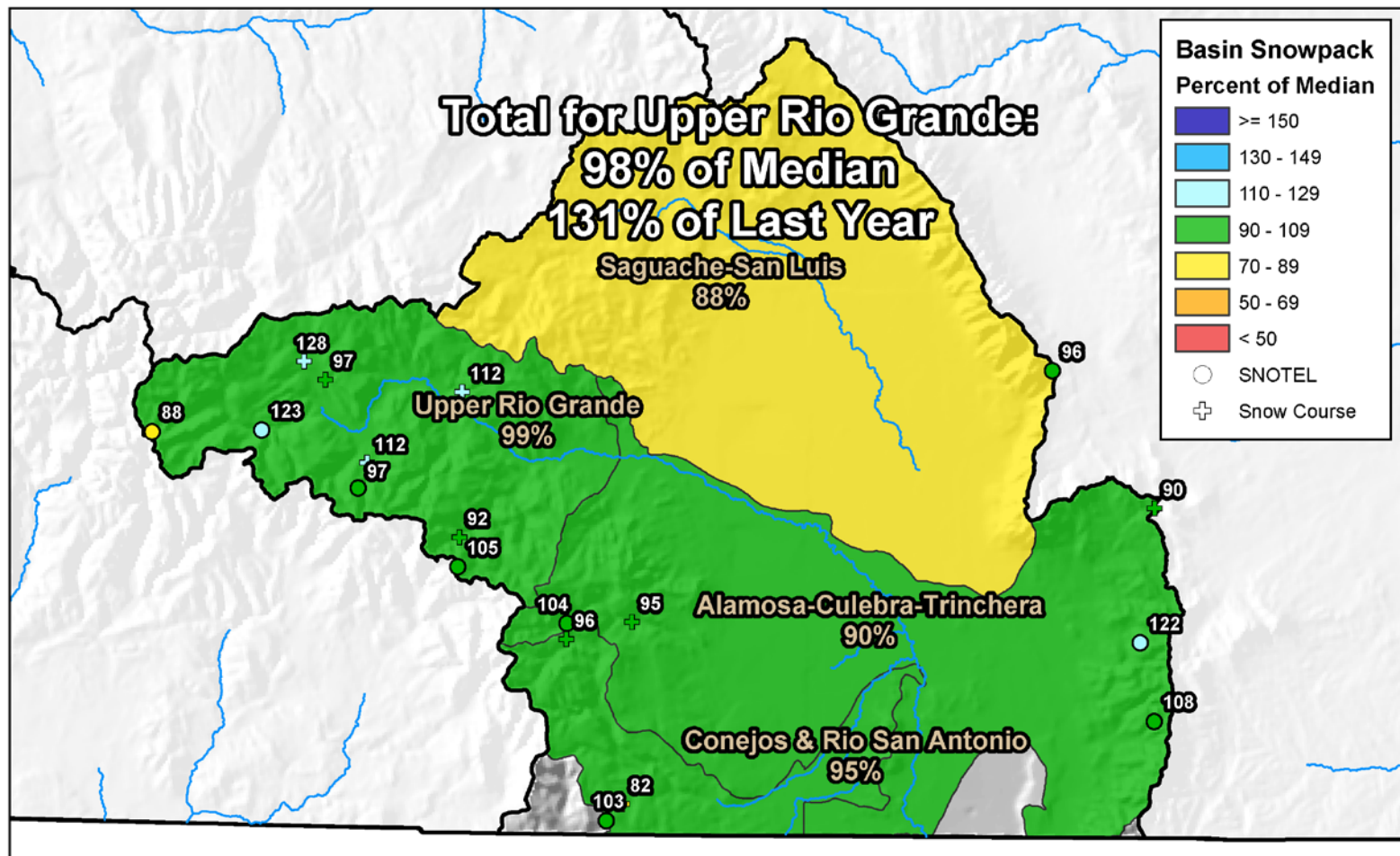
Major Basin Summary

Upper Rio Grande River Basin



0 25 50 100 150 200 Miles

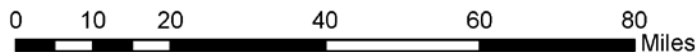
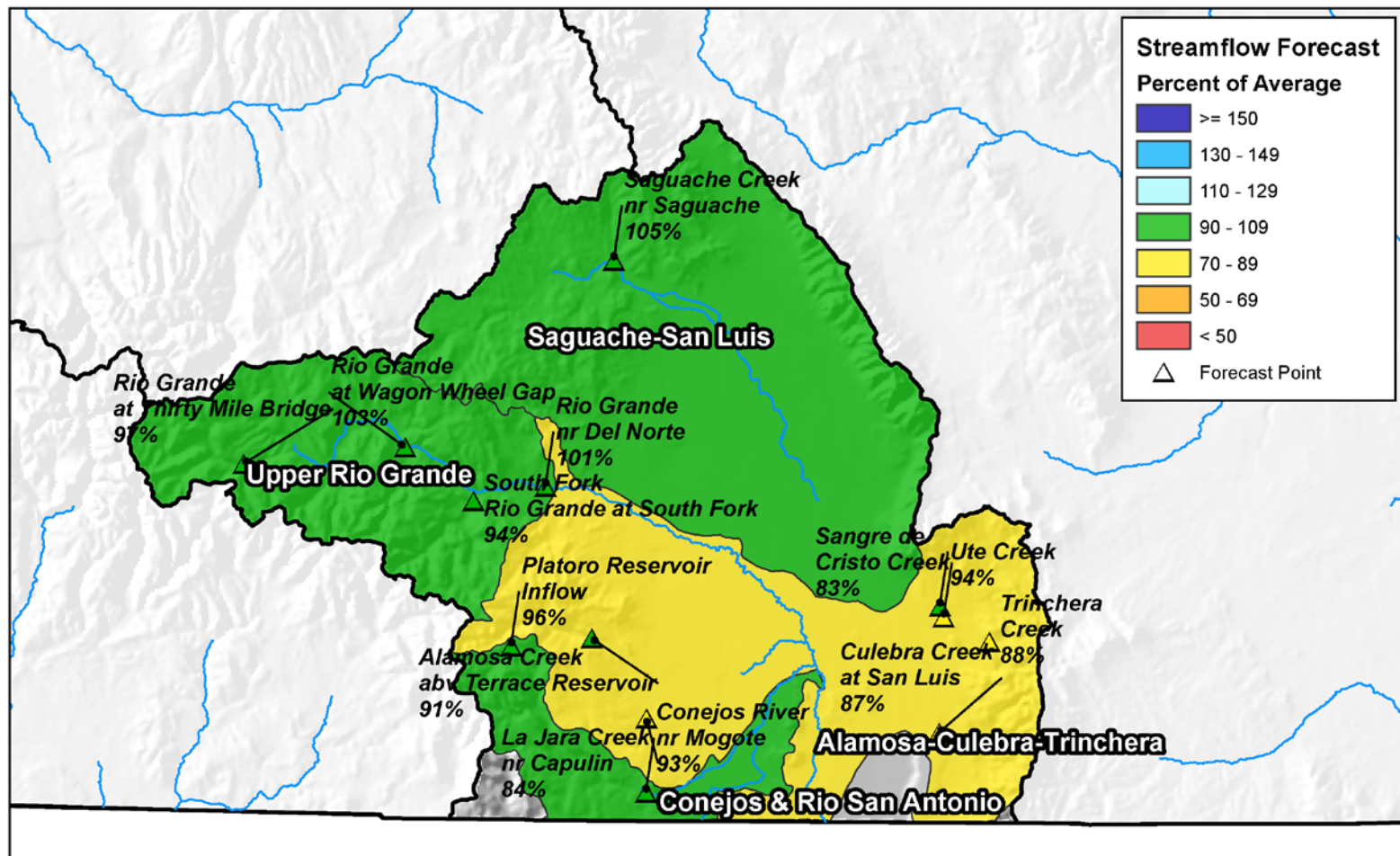
Upper Rio Grande River Basin Monthly Snowpack Summary March 1, 2016



0 5 10 20 30 40 Miles

Upper Rio Grande River Basin Streamflow Forecast Summary

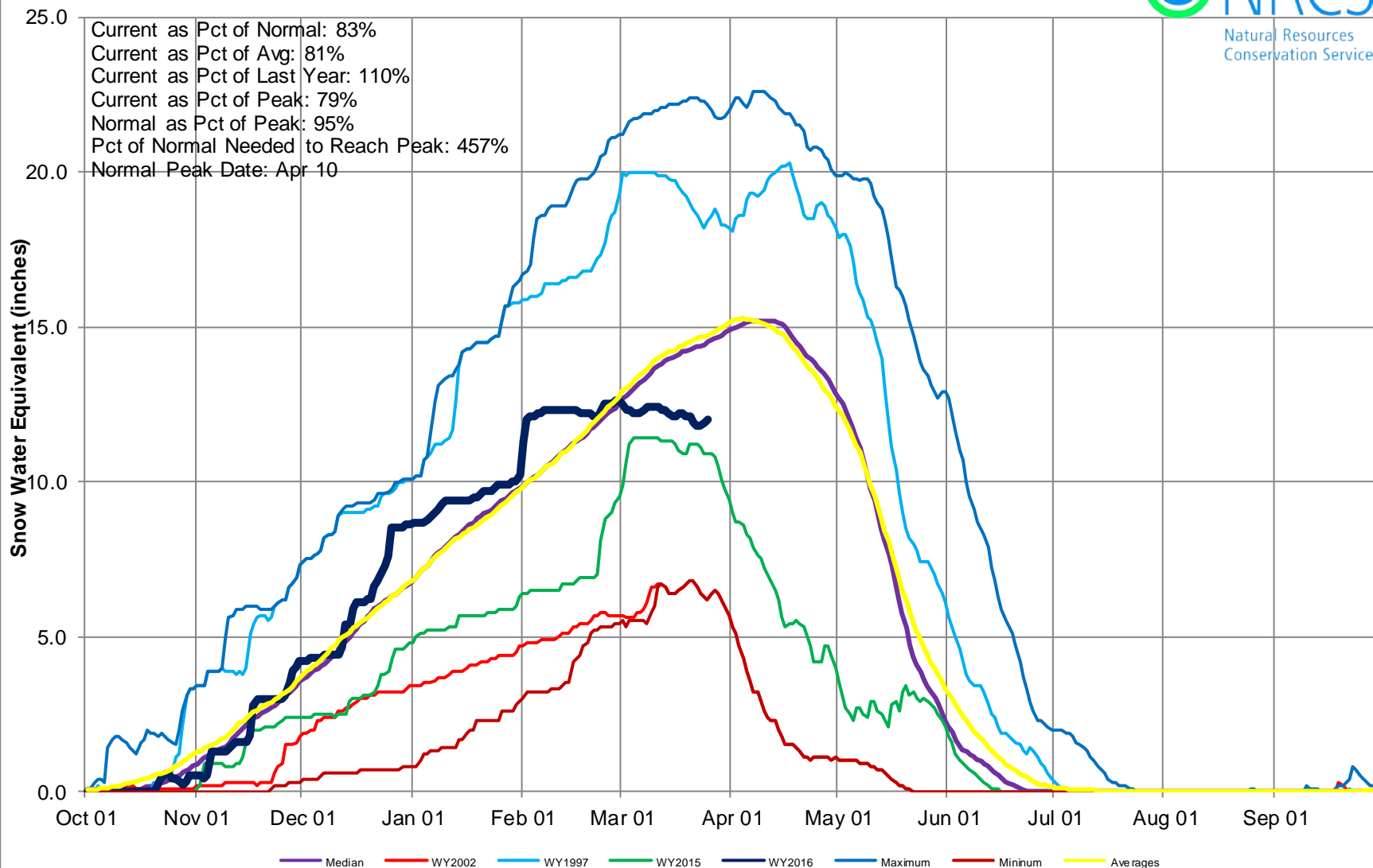
March 1, 2016





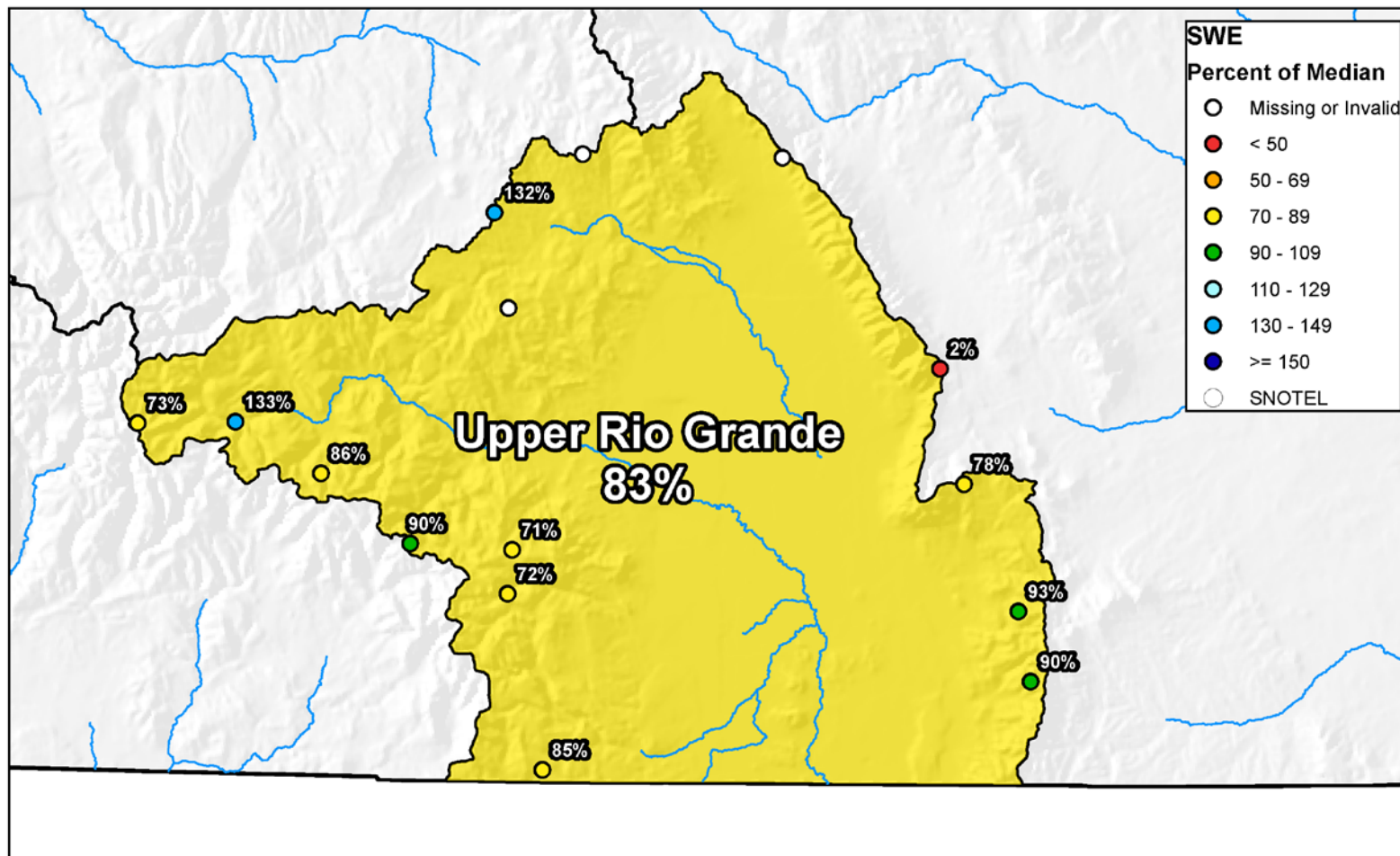
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 25, 2016



Upper Rio Grande River Basin Snow Water Equivalent (SWE) Summary

Current as of Mar 25, 2016

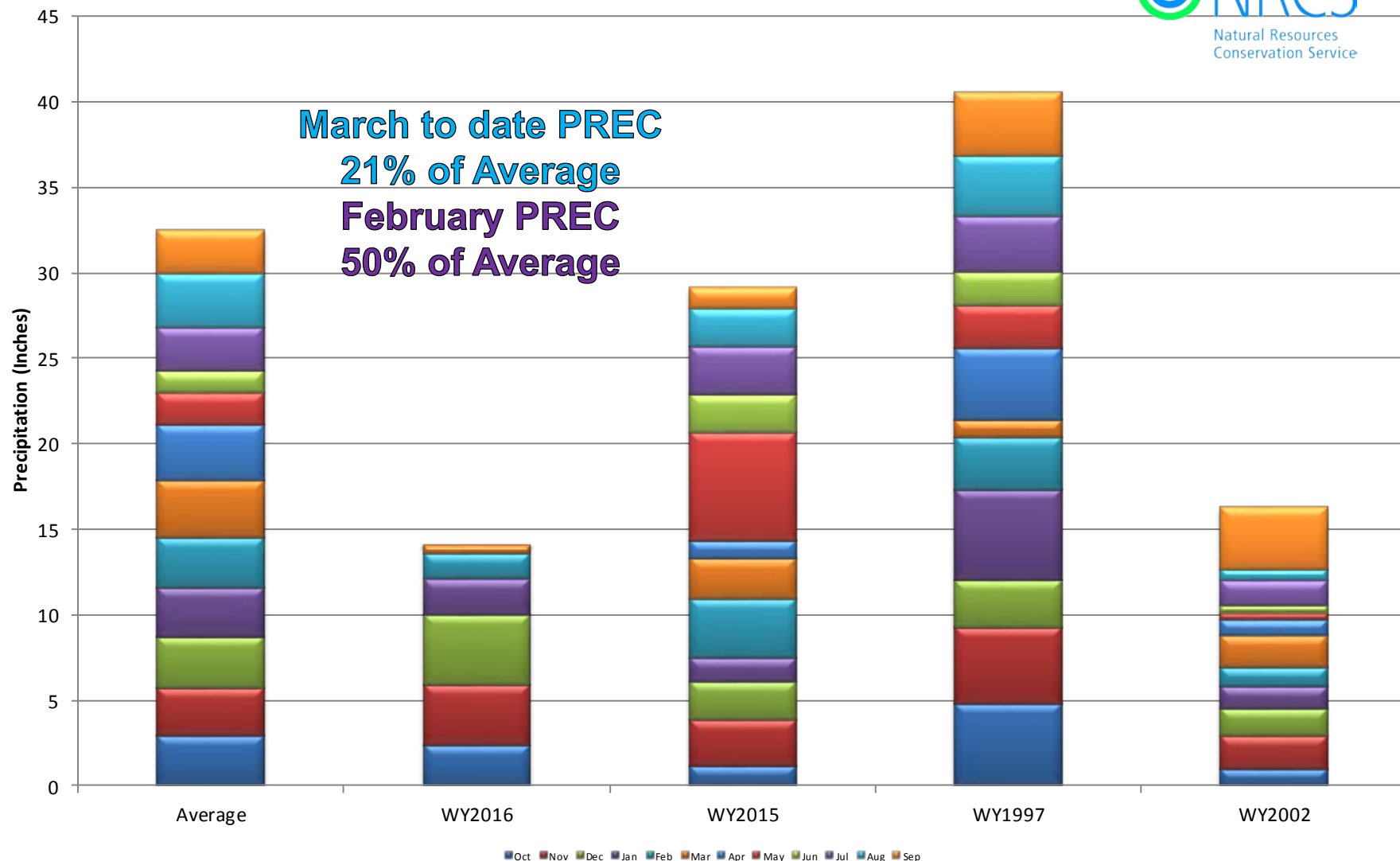


0 10 20 40 60 80 Miles



Upper Rio Grande Basin High/Low Monthly Precipitation Summary

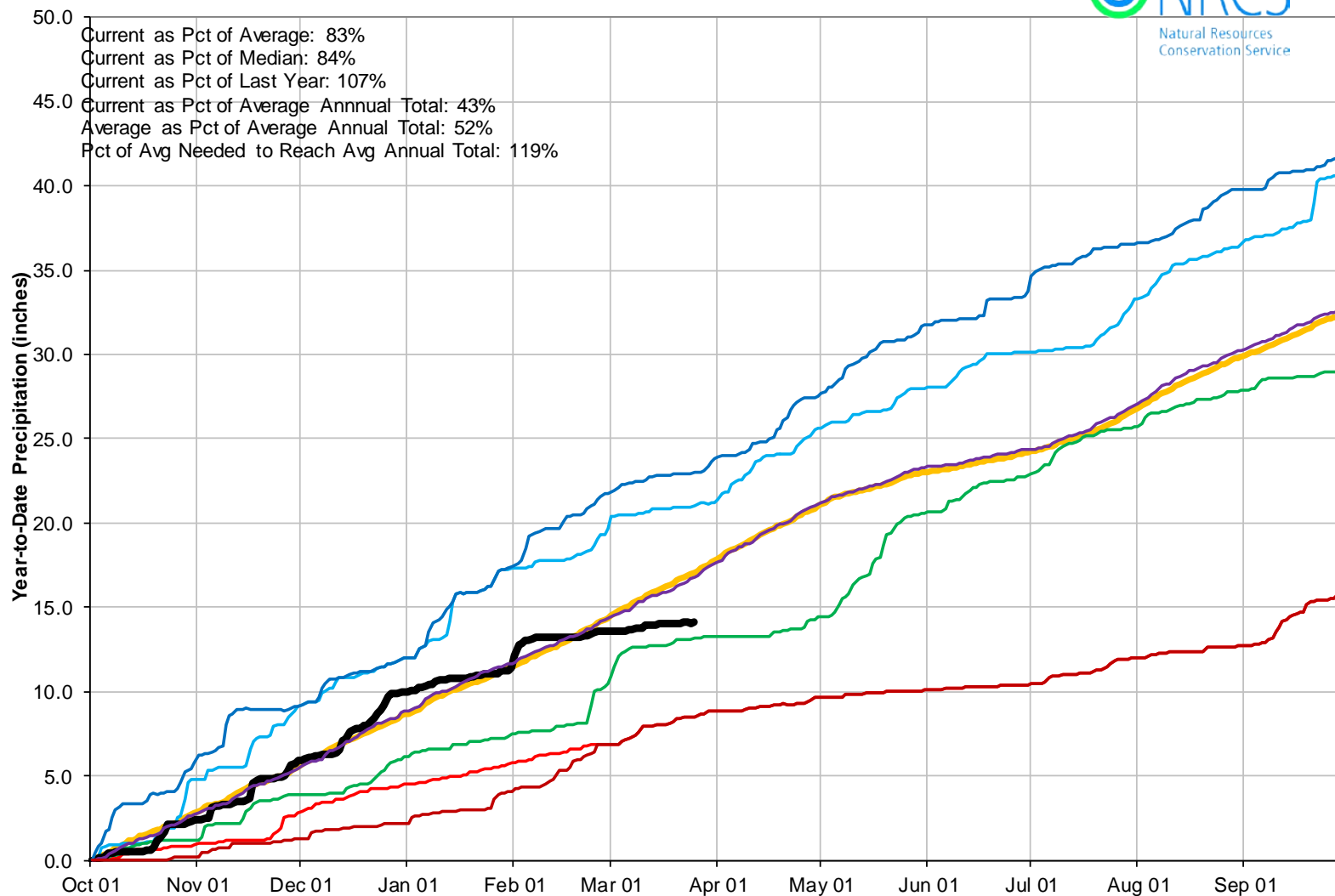
Based on Provisional SNOTEL data as of Mar 25, 2016



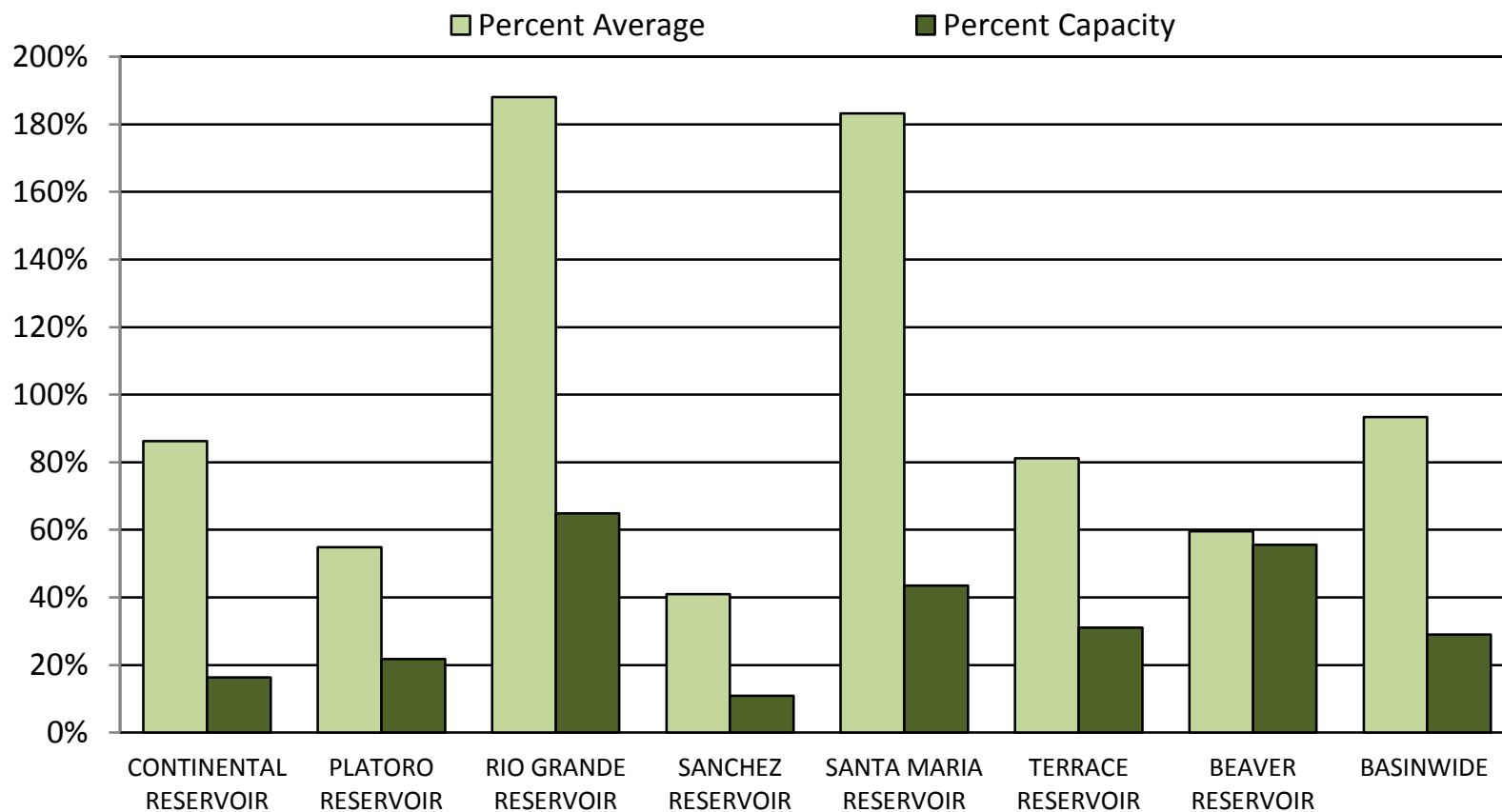


Upper Rio Grande Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 25, 2016

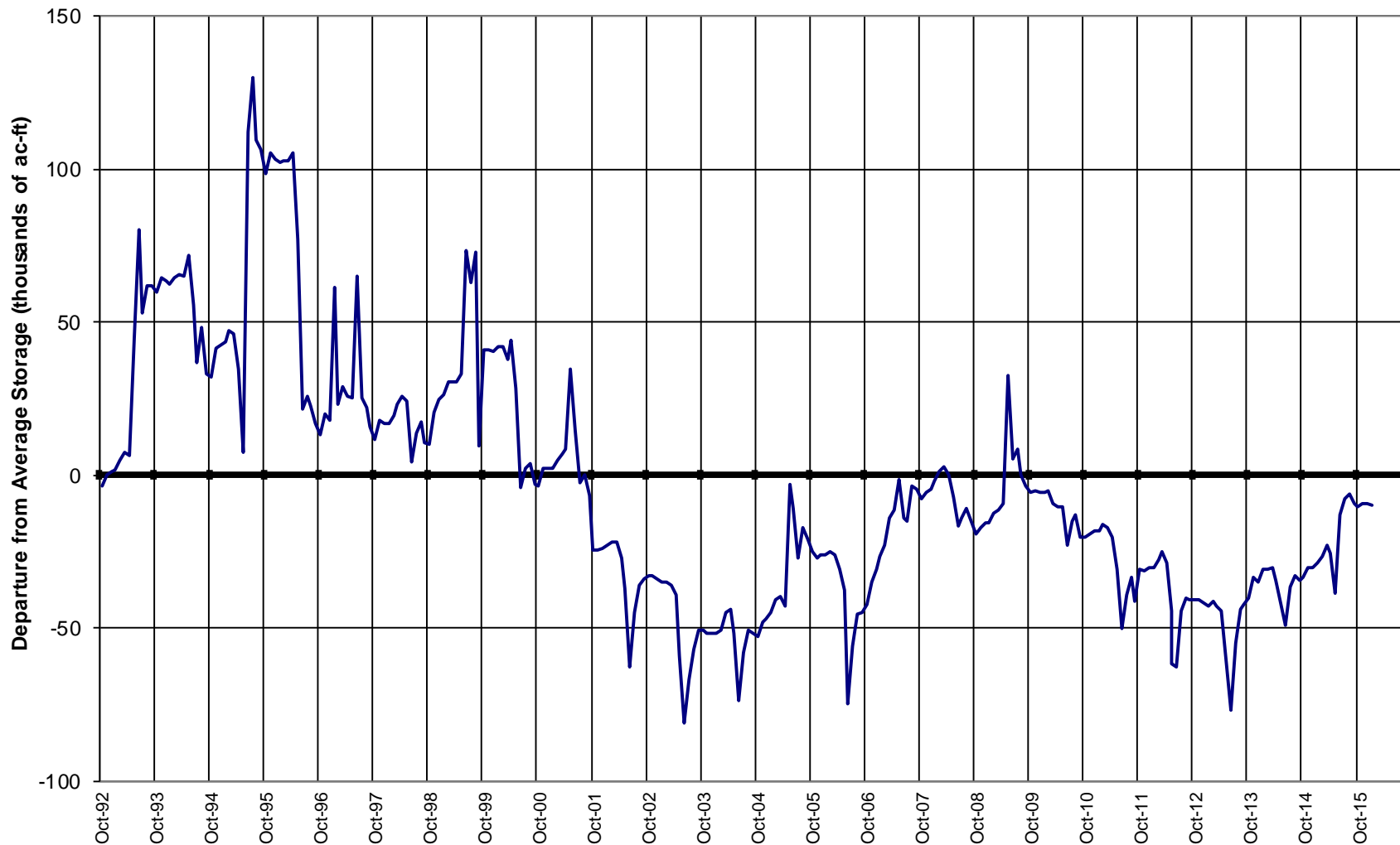


Reservoir Storage



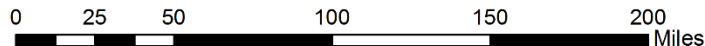
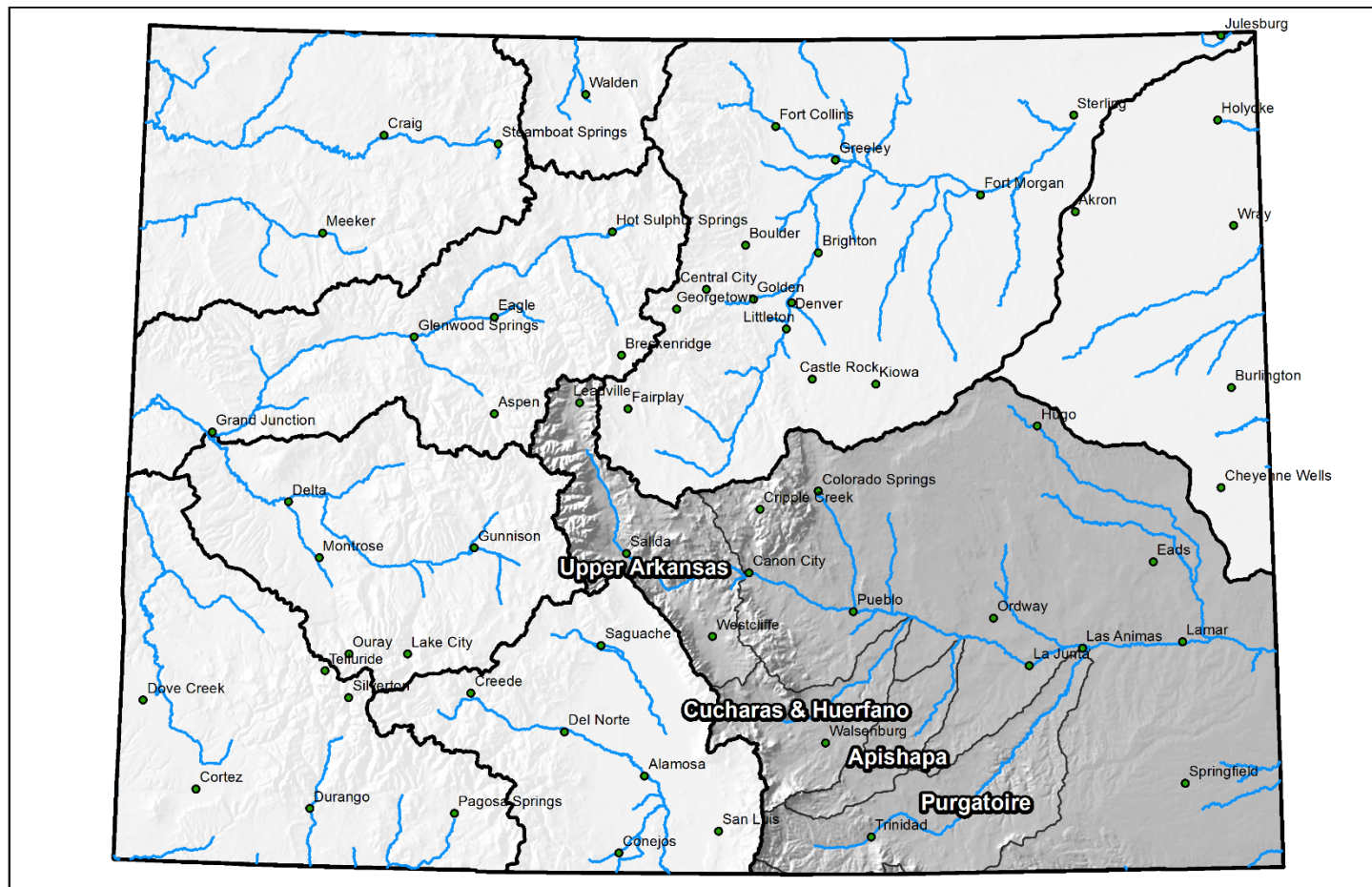


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average

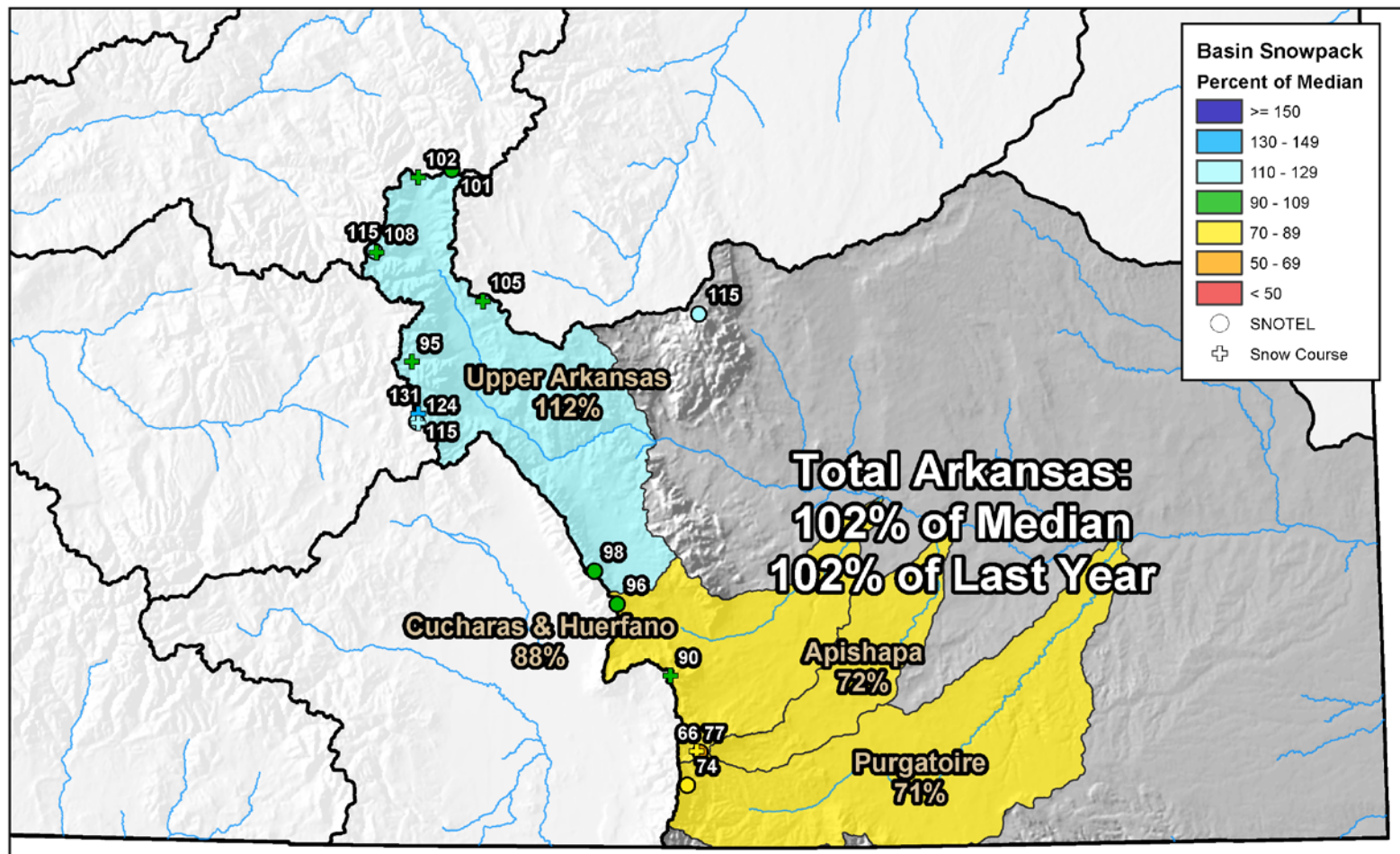


Major Basin Summary

Arkansas River Basin



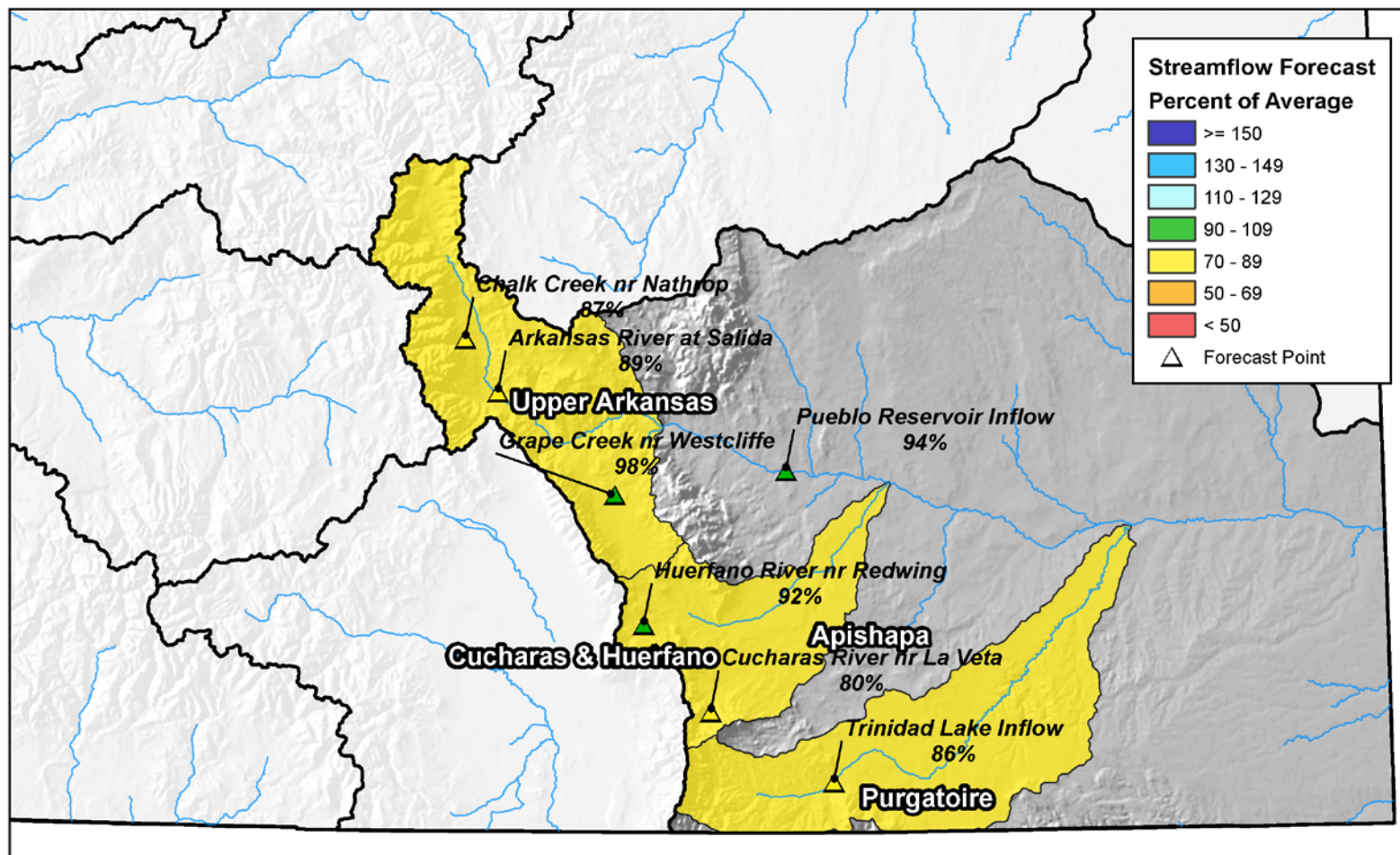
Arkansas River Basin Monthly Snowpack Summary March 1, 2016



0 10 20 40 60 80 Miles

Arkansas River Basin Streamflow Forecast Summary

March 1, 2016

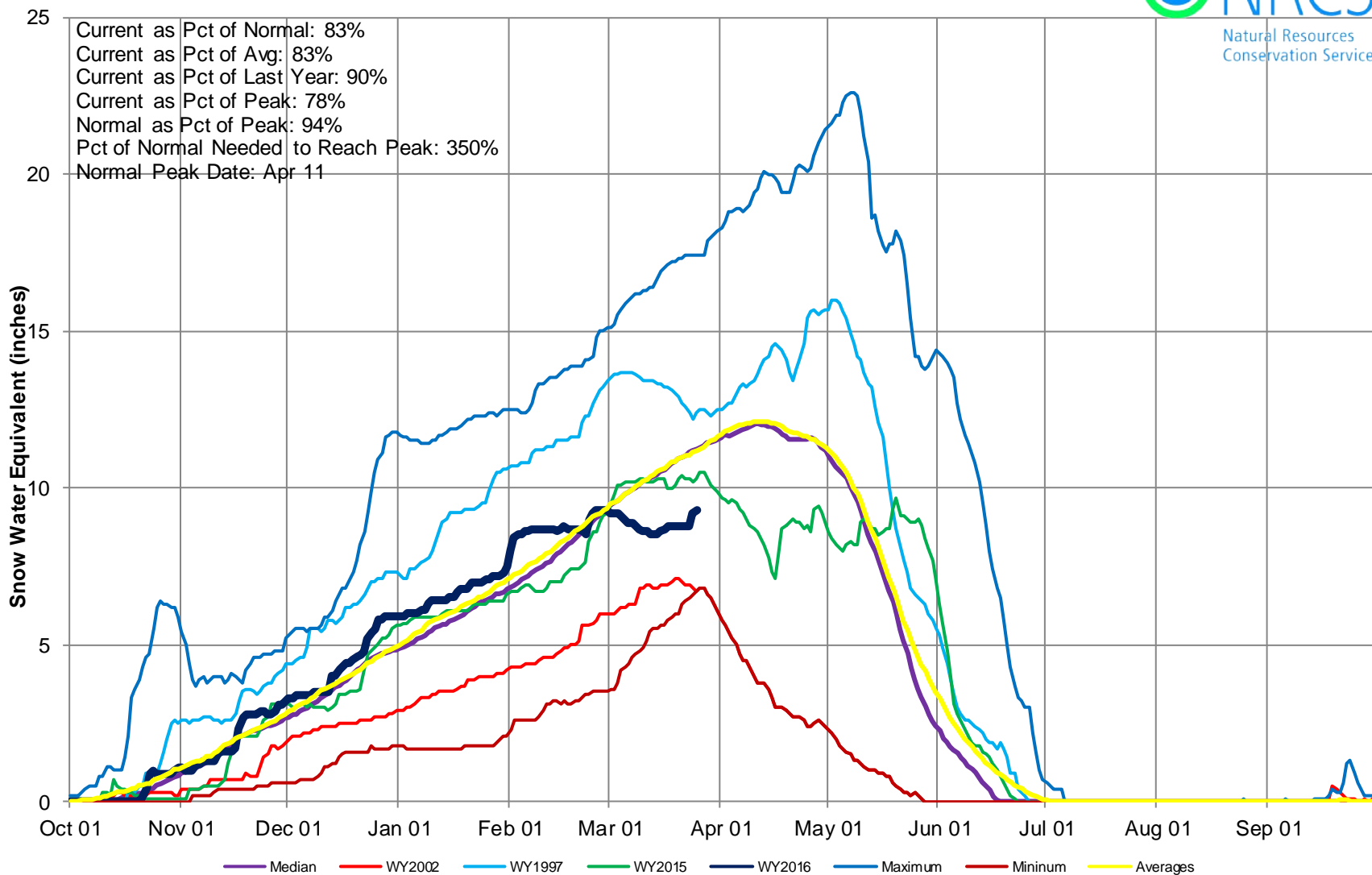


0 10 20 40 60 80 Miles



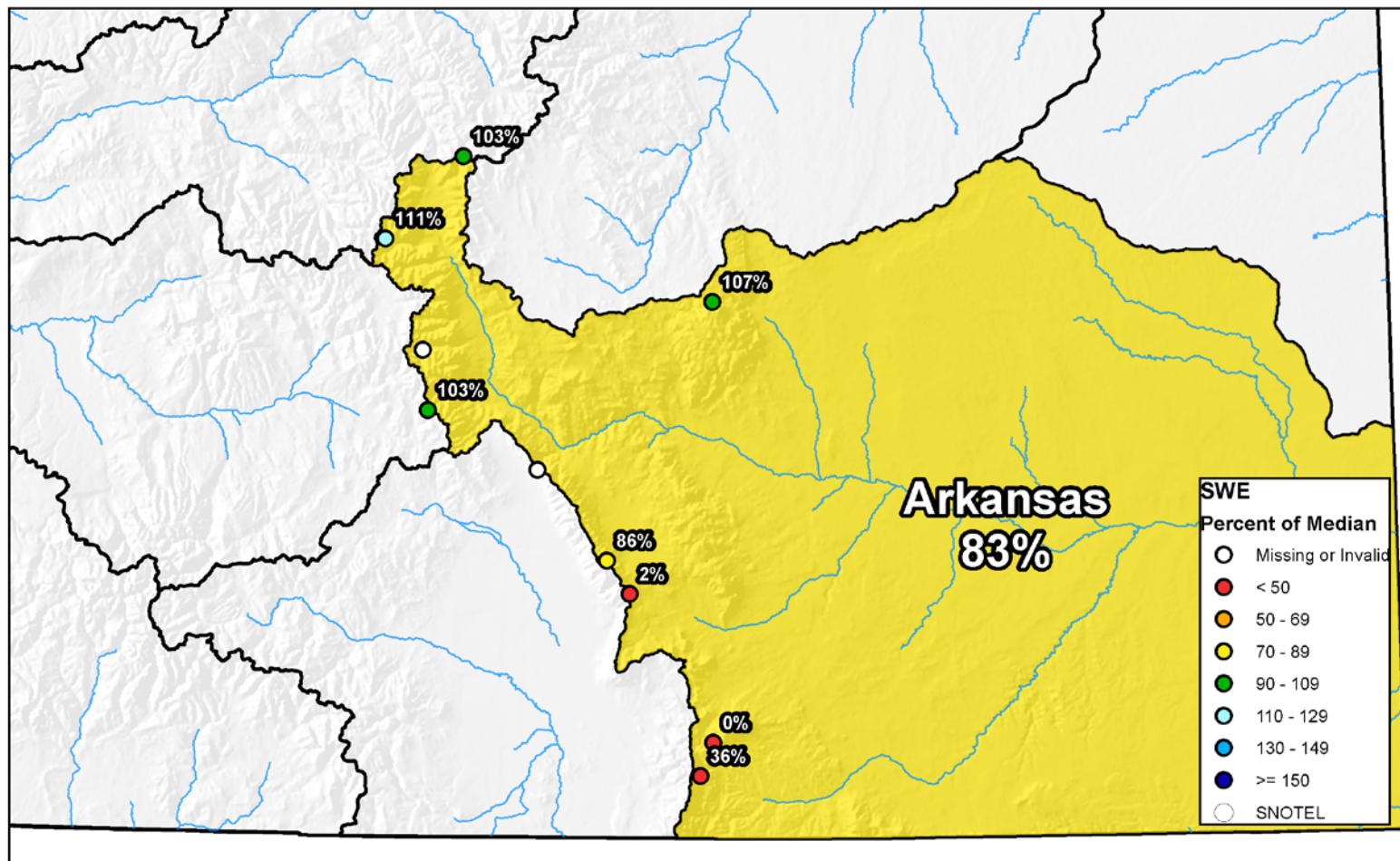
Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 25, 2016



Arkansas River Basin Snow Water Equivalent (SWE) Summary

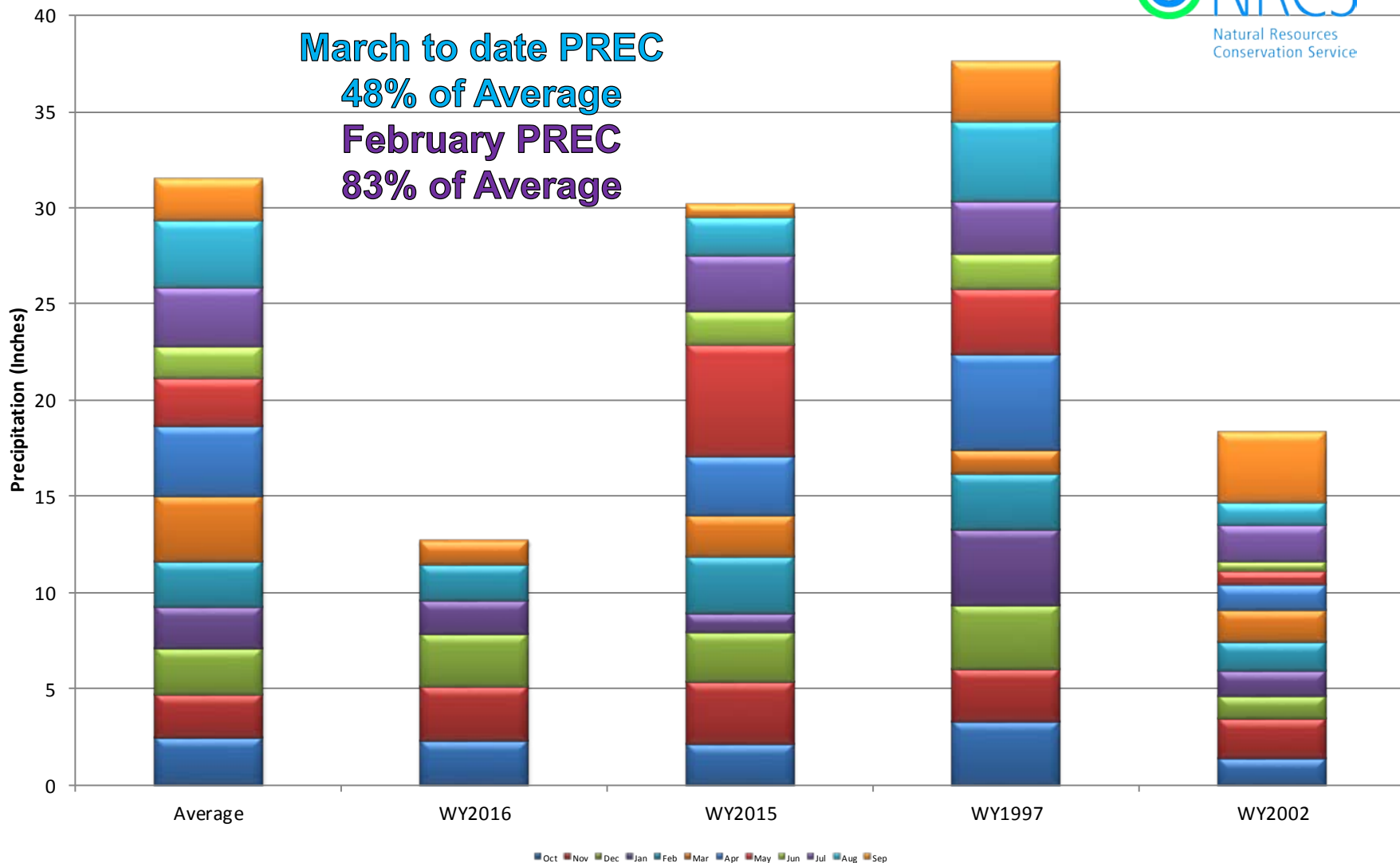
Current as of Mar 25, 2016



0 10 20 40 60 80 Miles

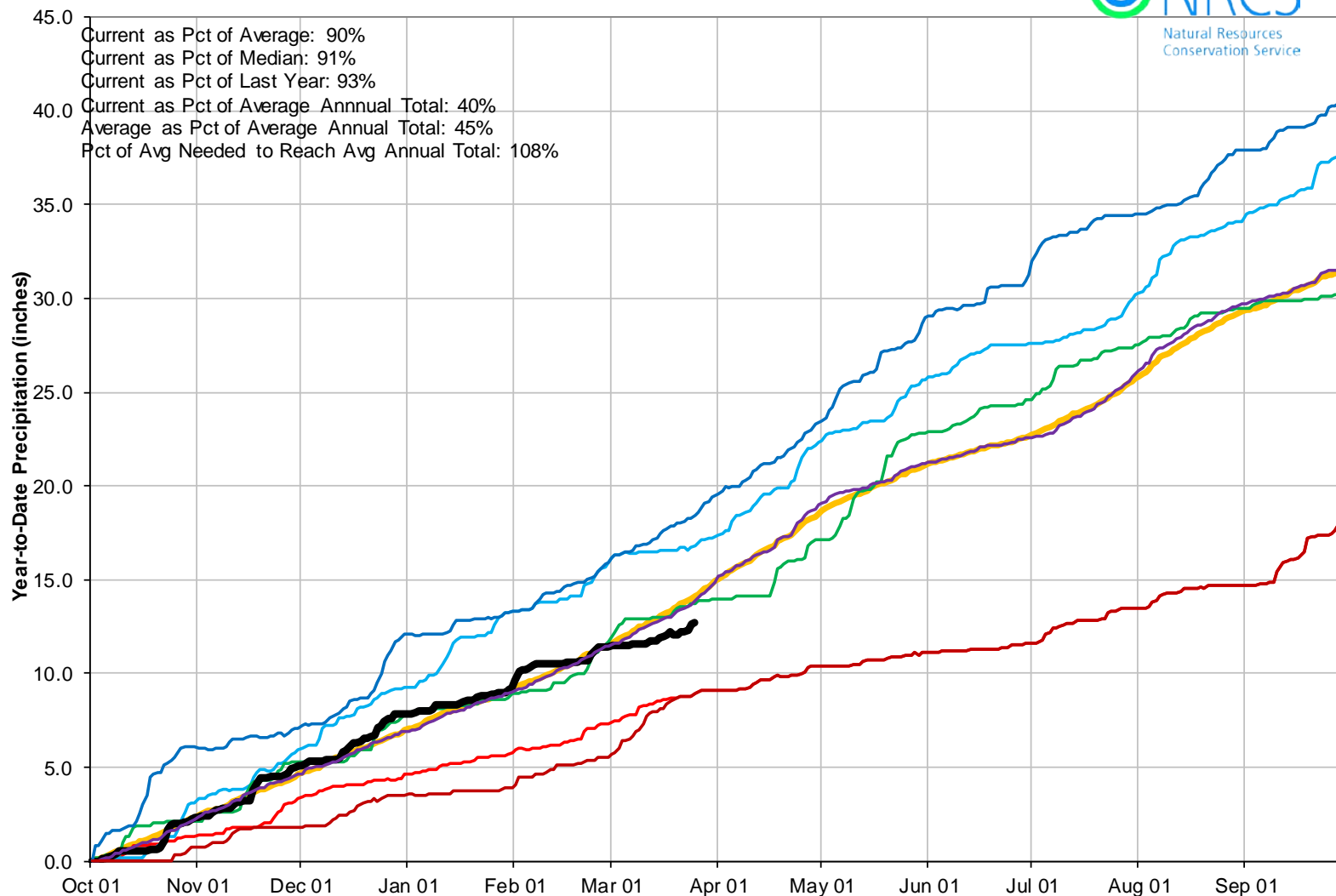
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 25, 2016

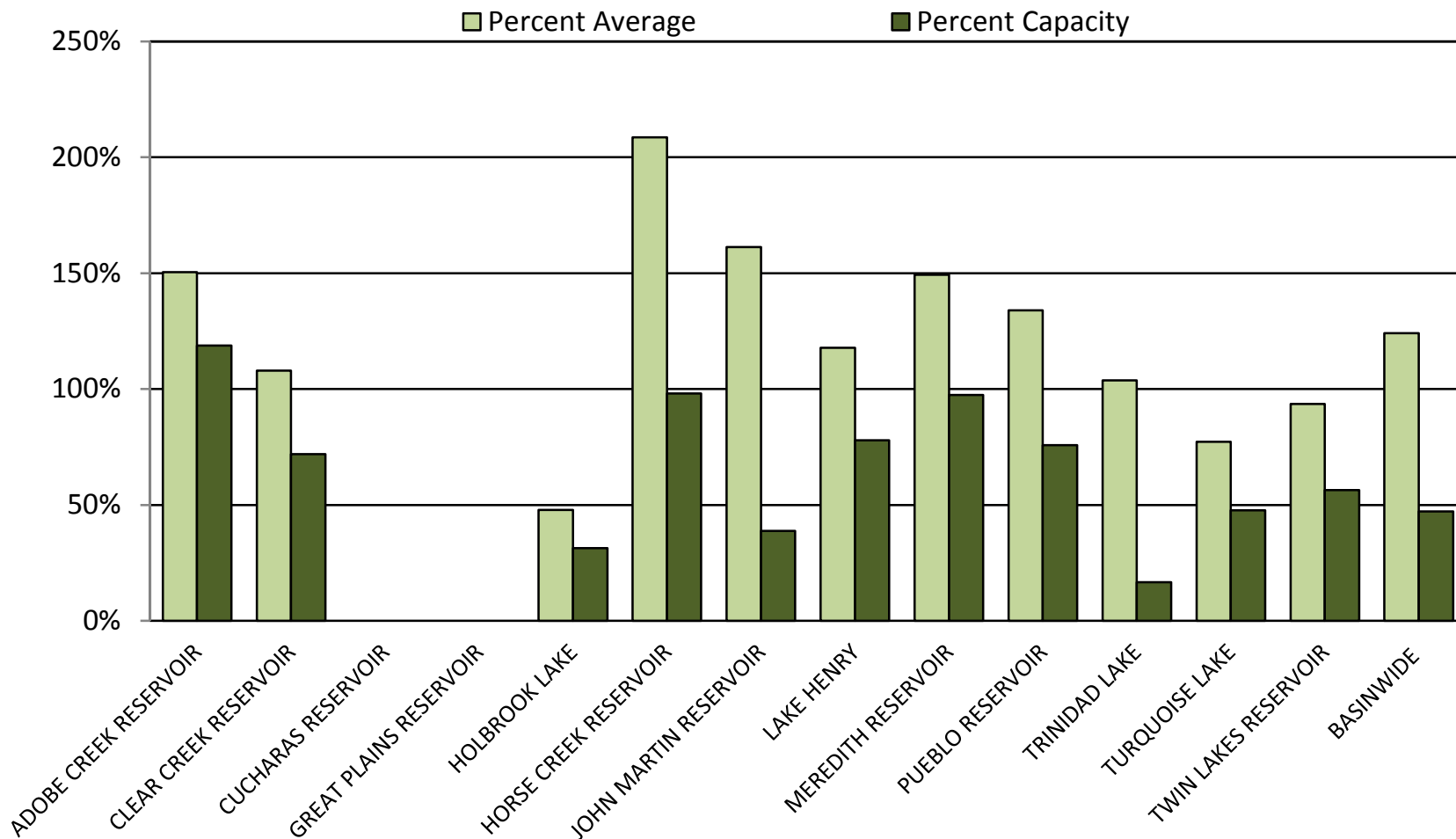


Arkansas River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 25, 2016

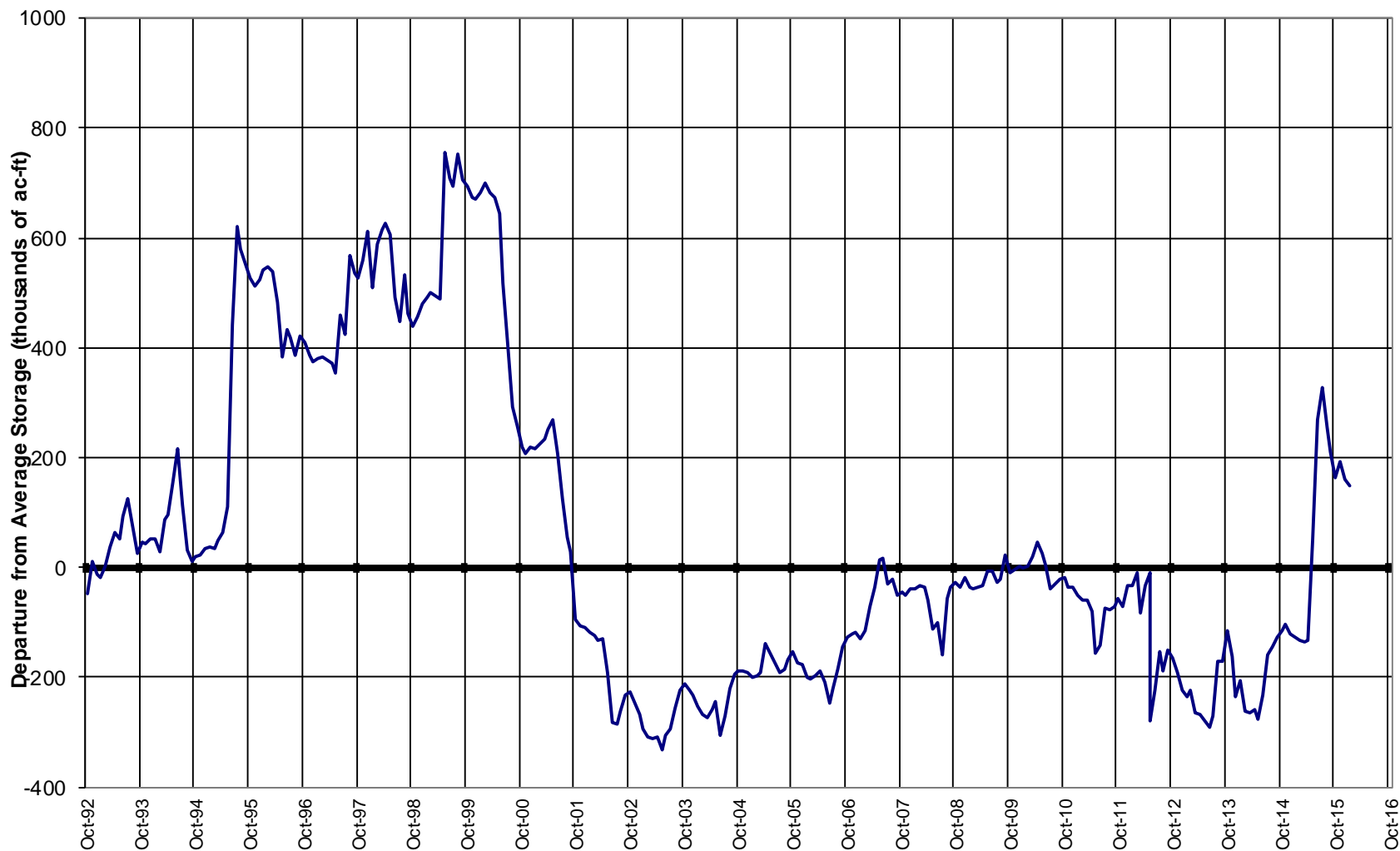


Reservoir Storage



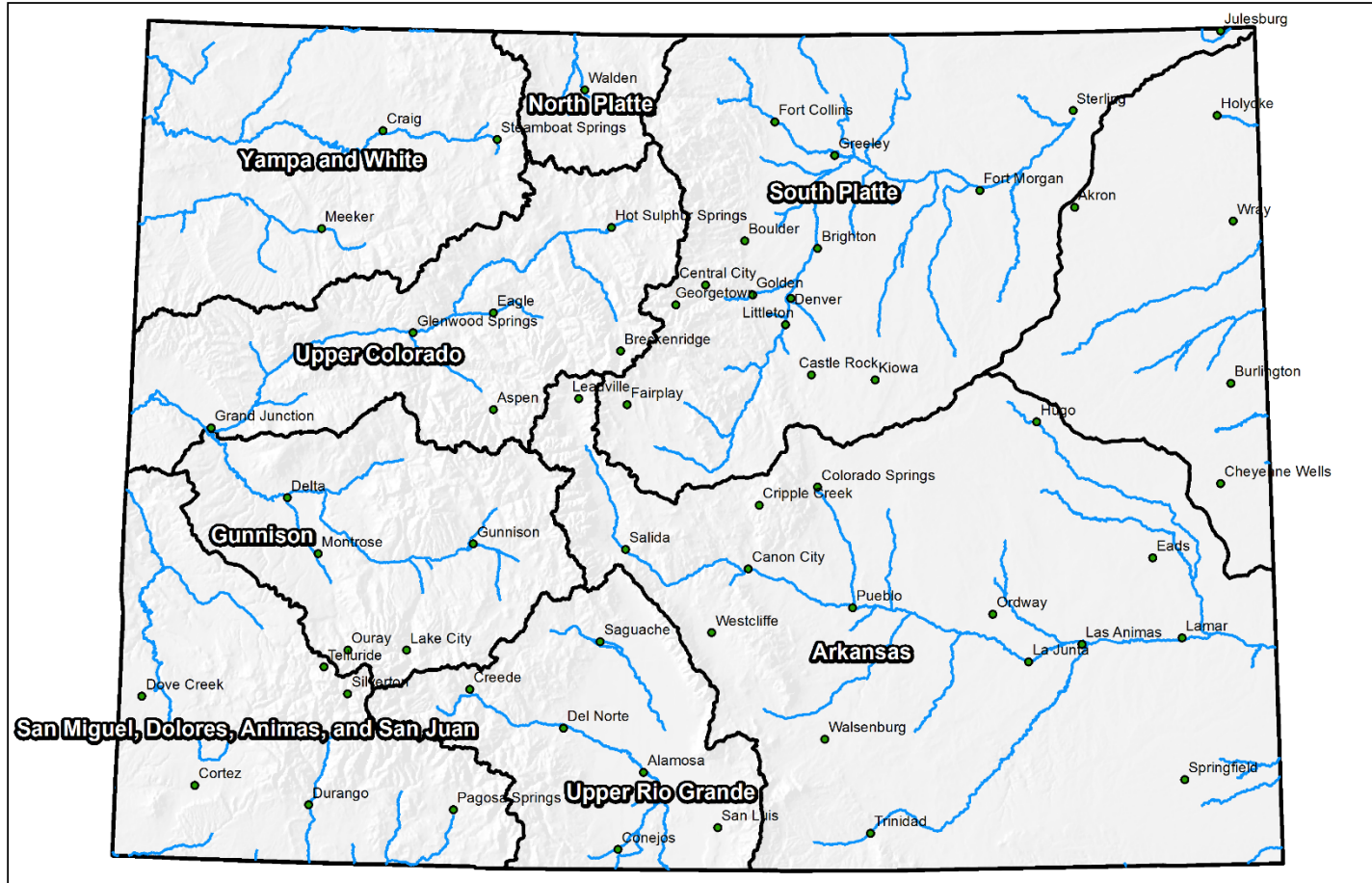


ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



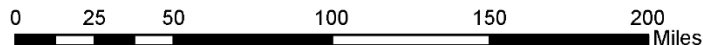
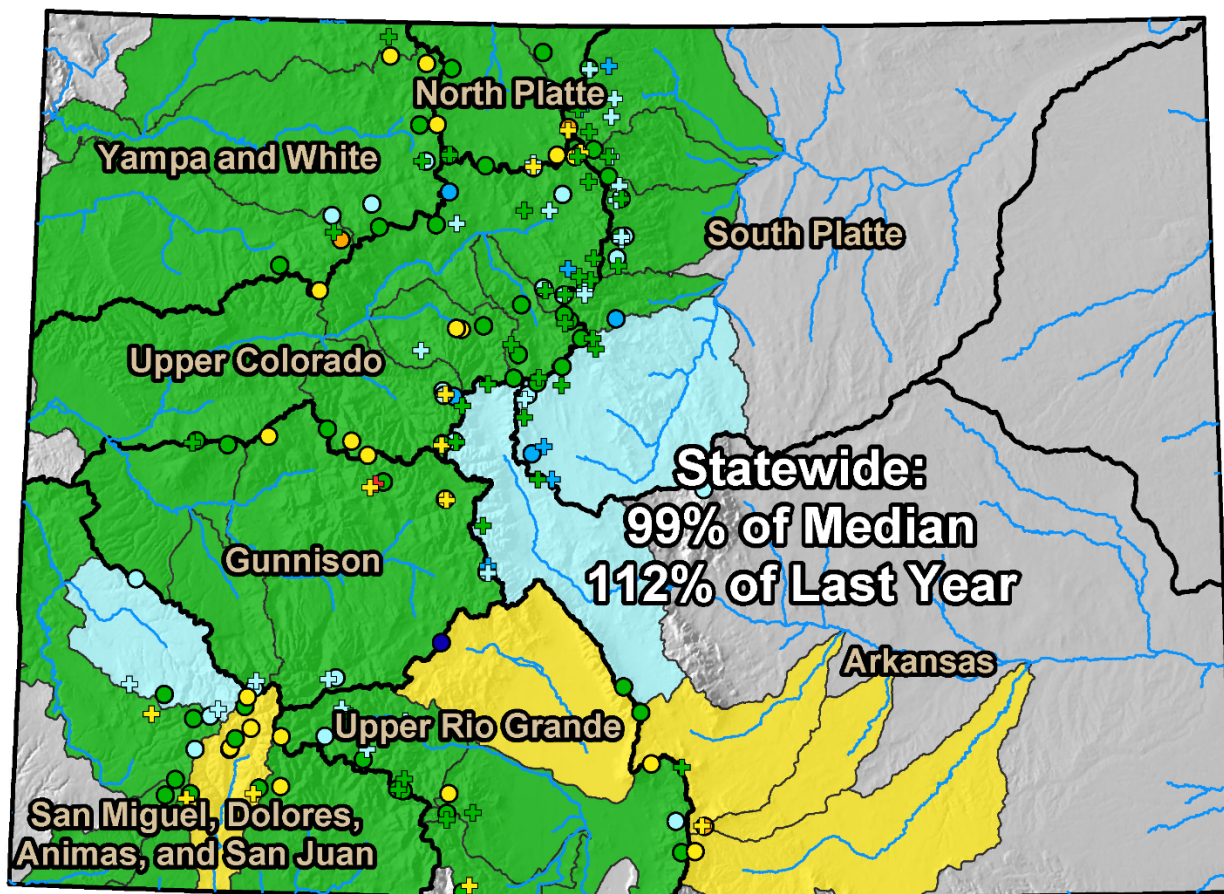
Colorado Statewide Summary

Colorado Major Basins

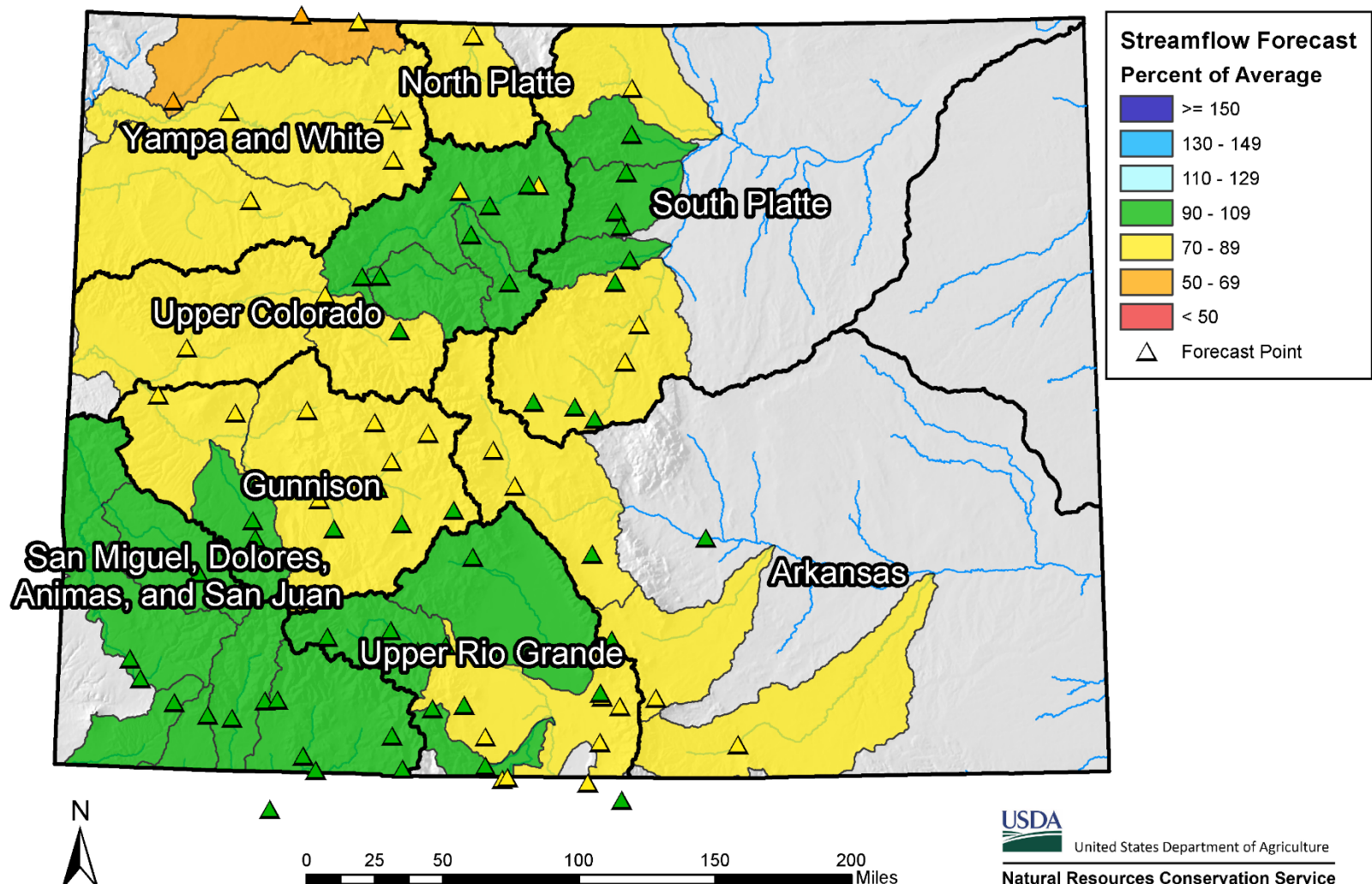


0 25 50 100 150 200 Miles

Colorado Monthly Snowpack Summary March 1, 2016

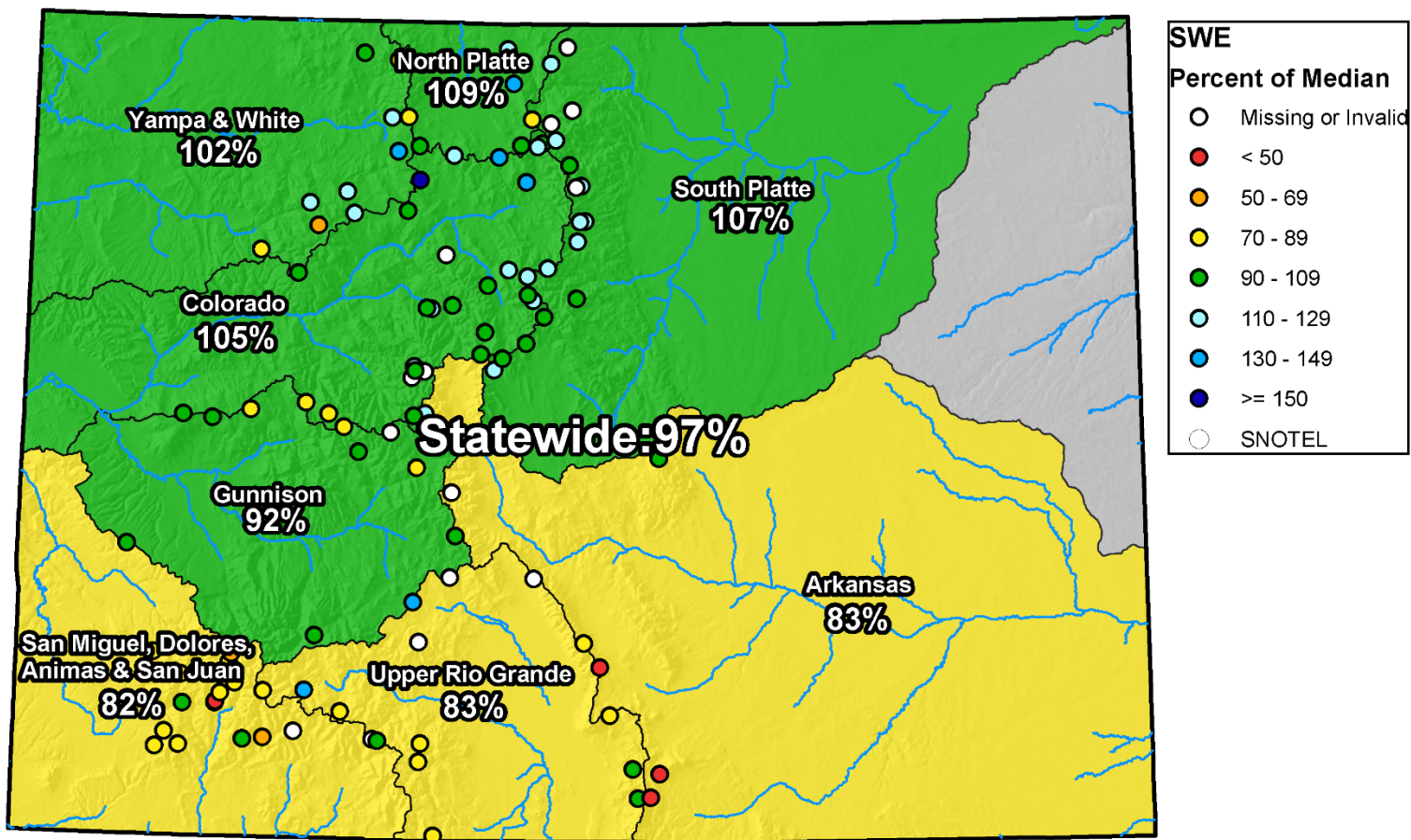


Colorado Streamflow Forecasts Summary March 1, 2016



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

Current as of Mar 25, 2016

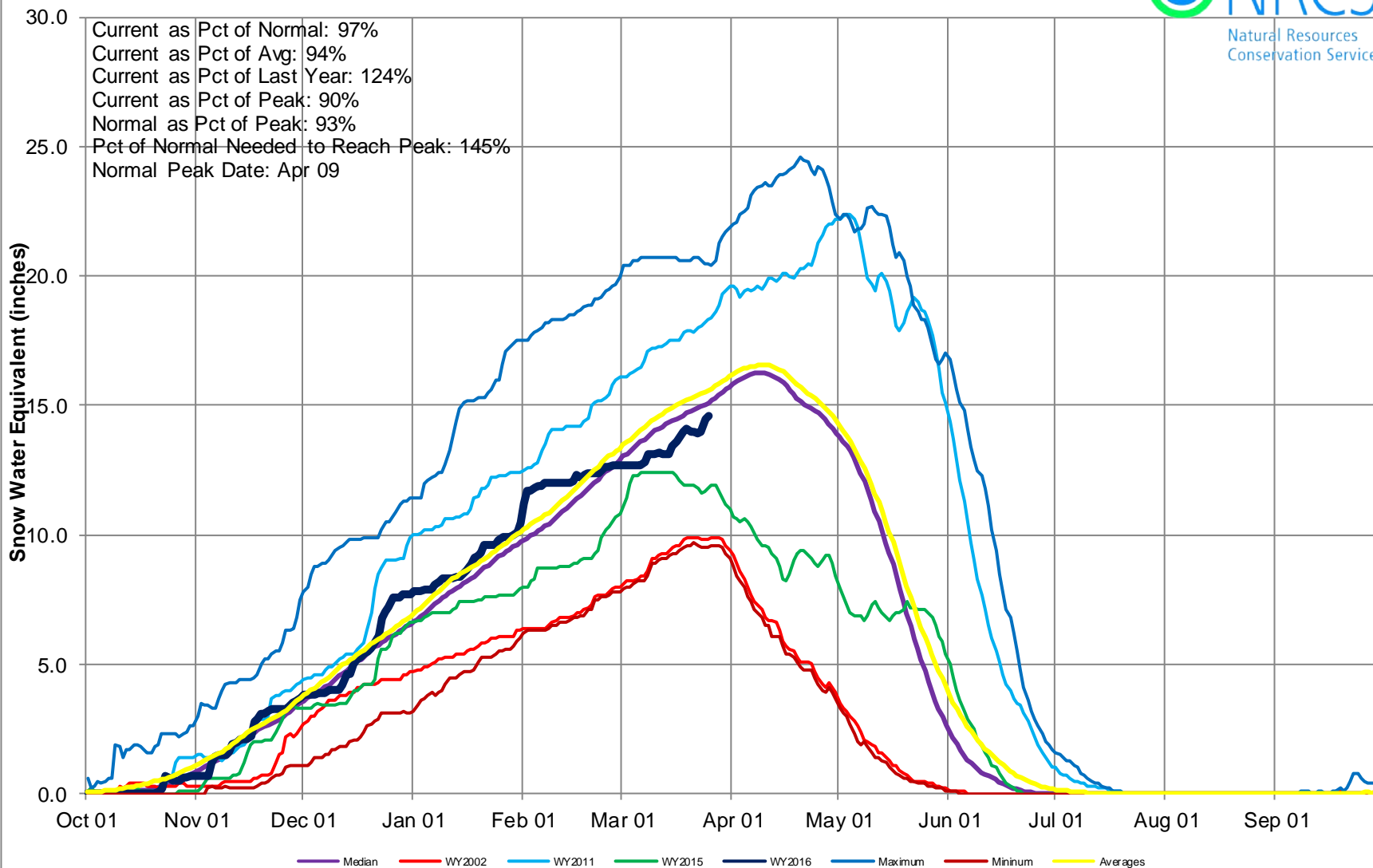


0 25 50 100 150 200 Miles



Colorado Statewide High/Low Snowpack Summary

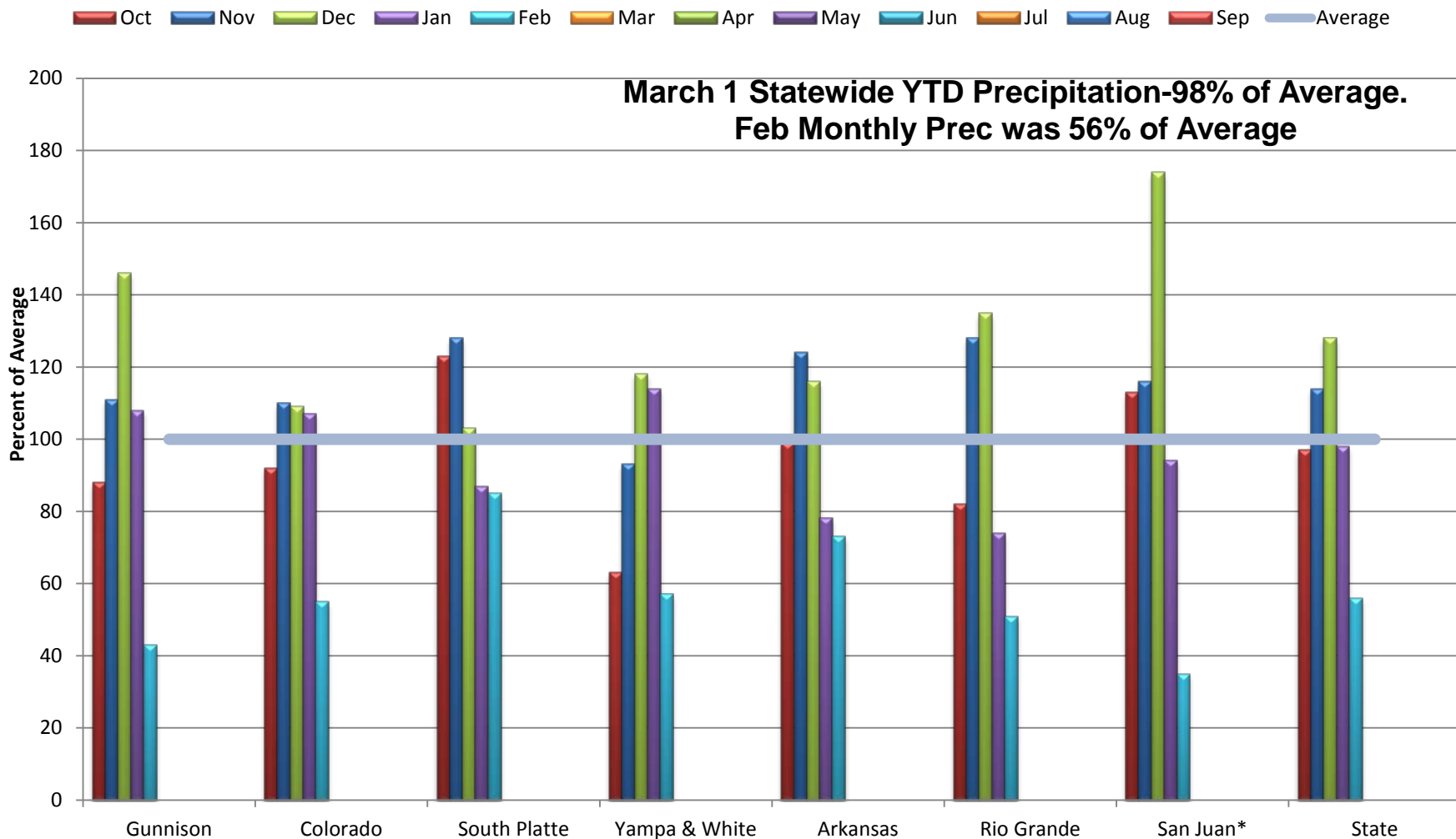
Based on Provisional SNOTEL data as of Mar 25, 2016





Colorado Monthly Precipitation Summary for WY2016

USDA Natural Resources Conservation Service



*Includes Animas, Dolores, San Miguel Basins

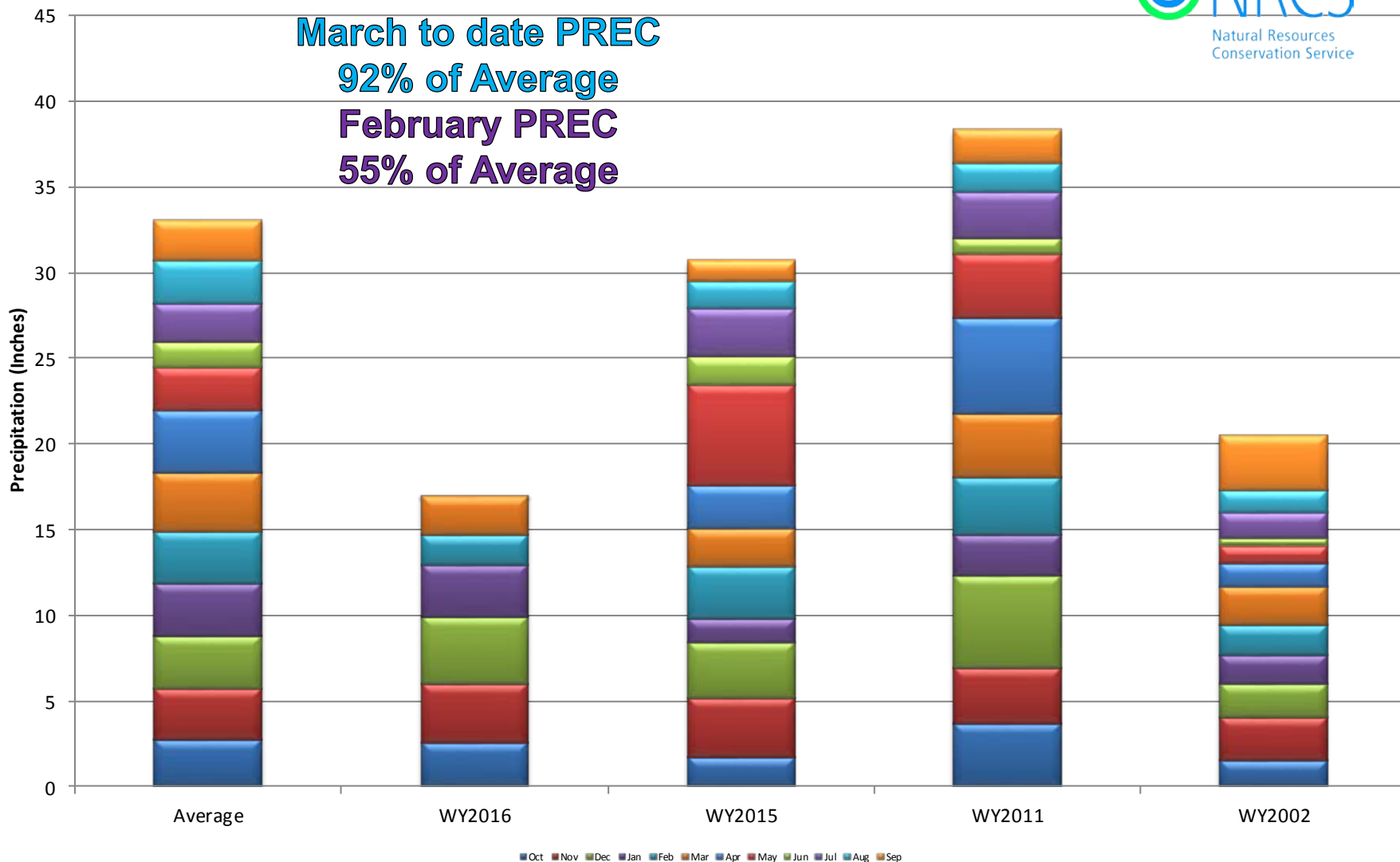


Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 25, 2016

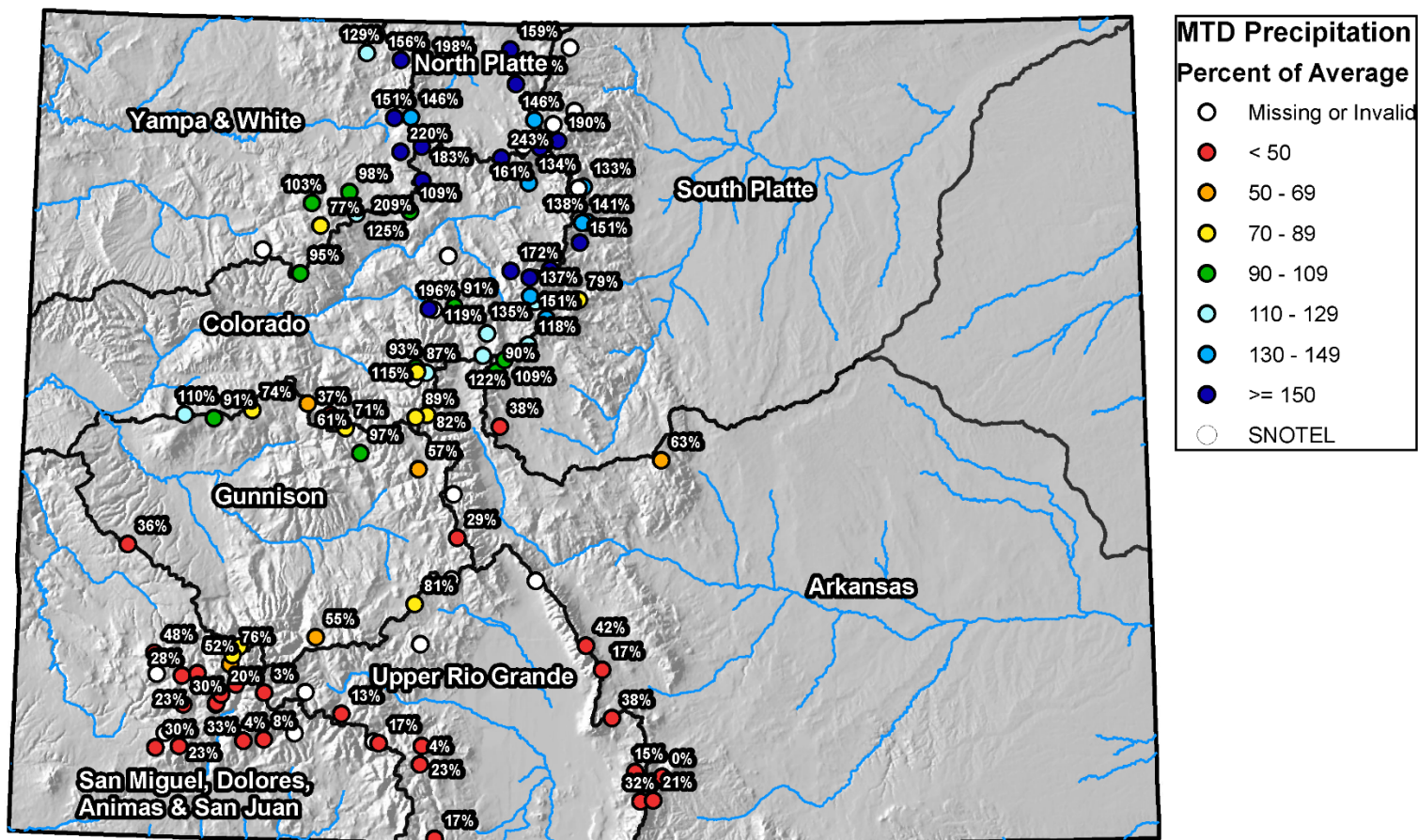


March to date PREC
92% of Average
February PREC
55% of Average



Colorado SNOTEL Month-to-Date Precipitation

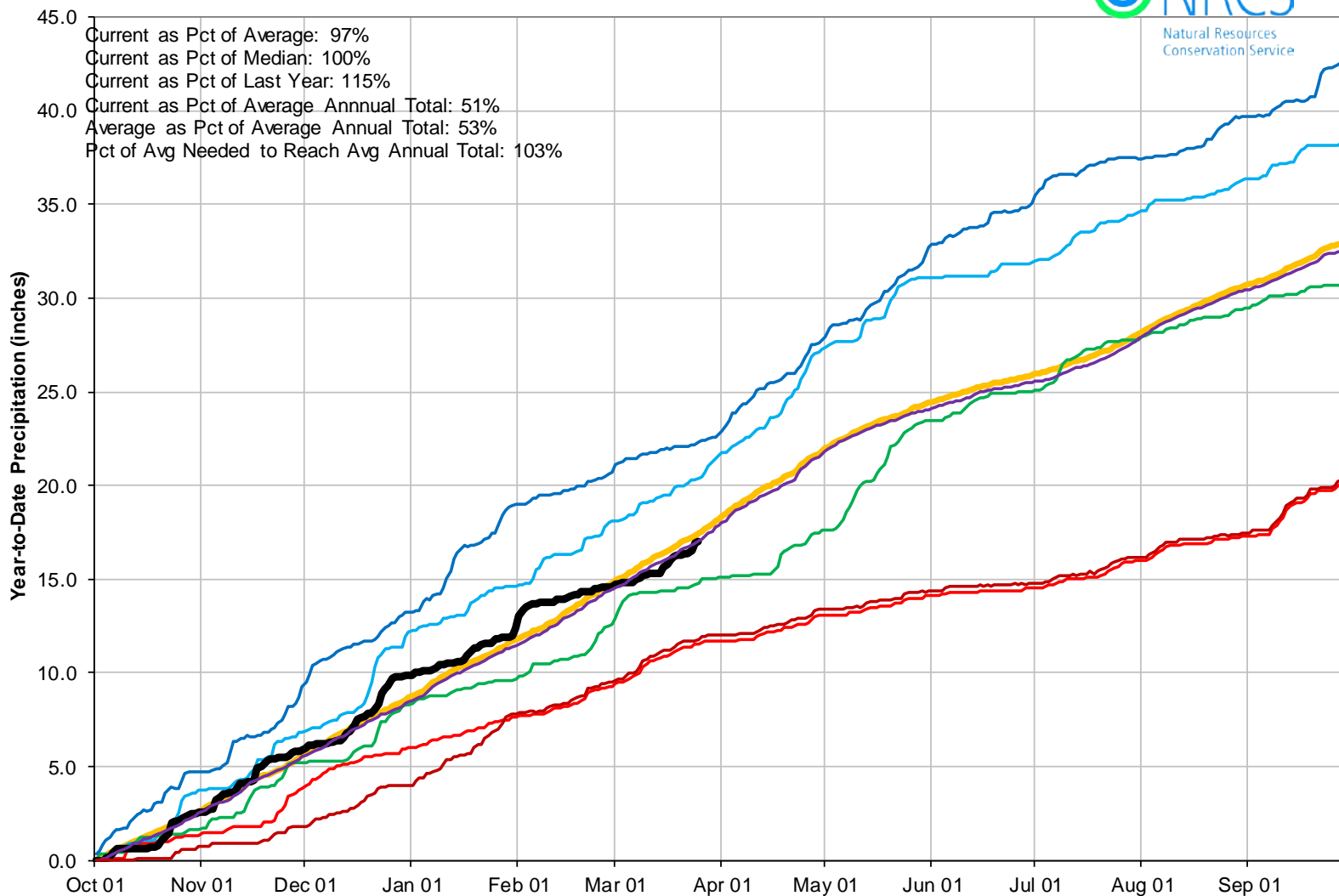
Current as of Mar 25, 2016





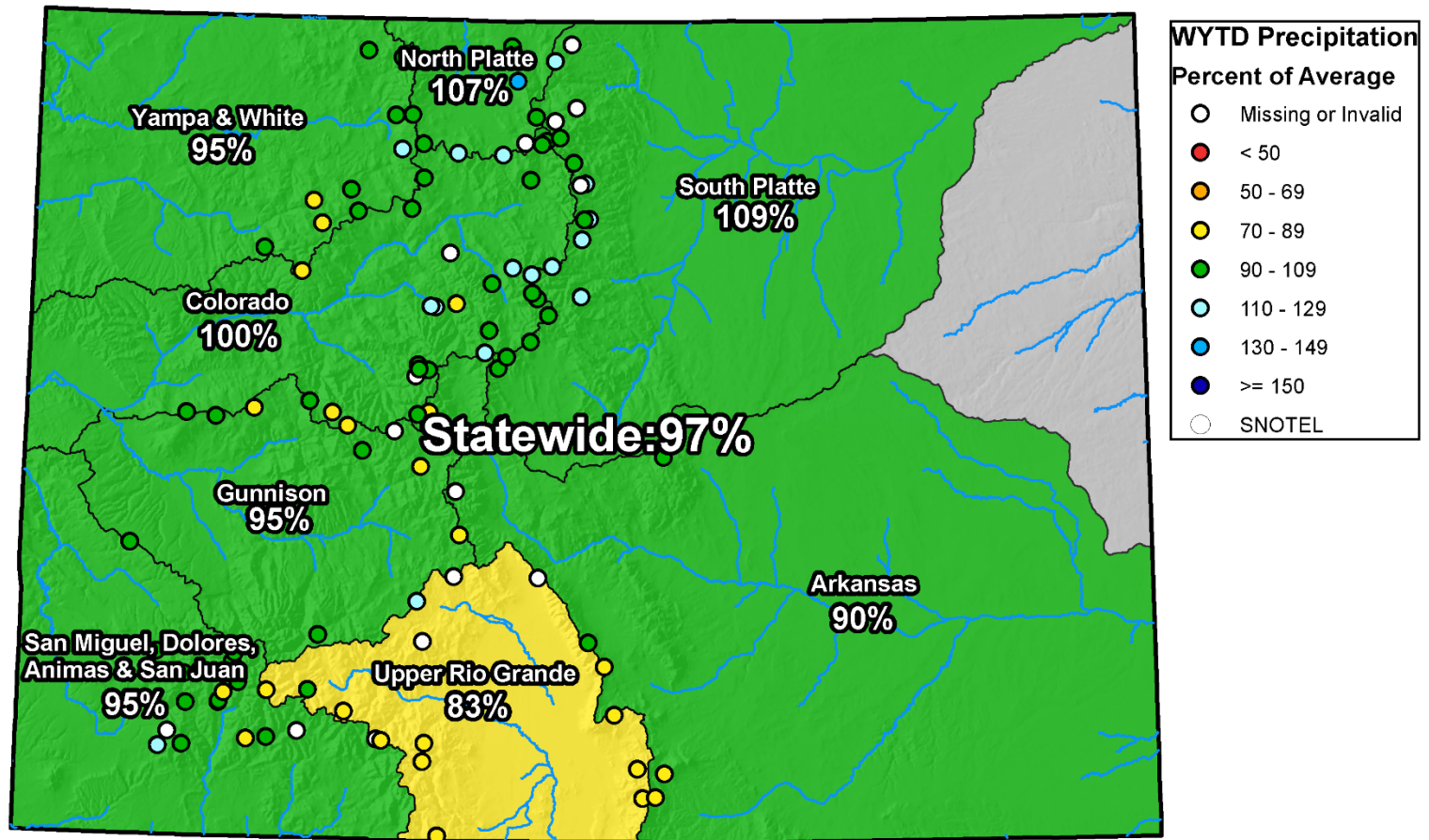
Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 25, 2016



Colorado SNOTEL Water Year to Date Precipitation

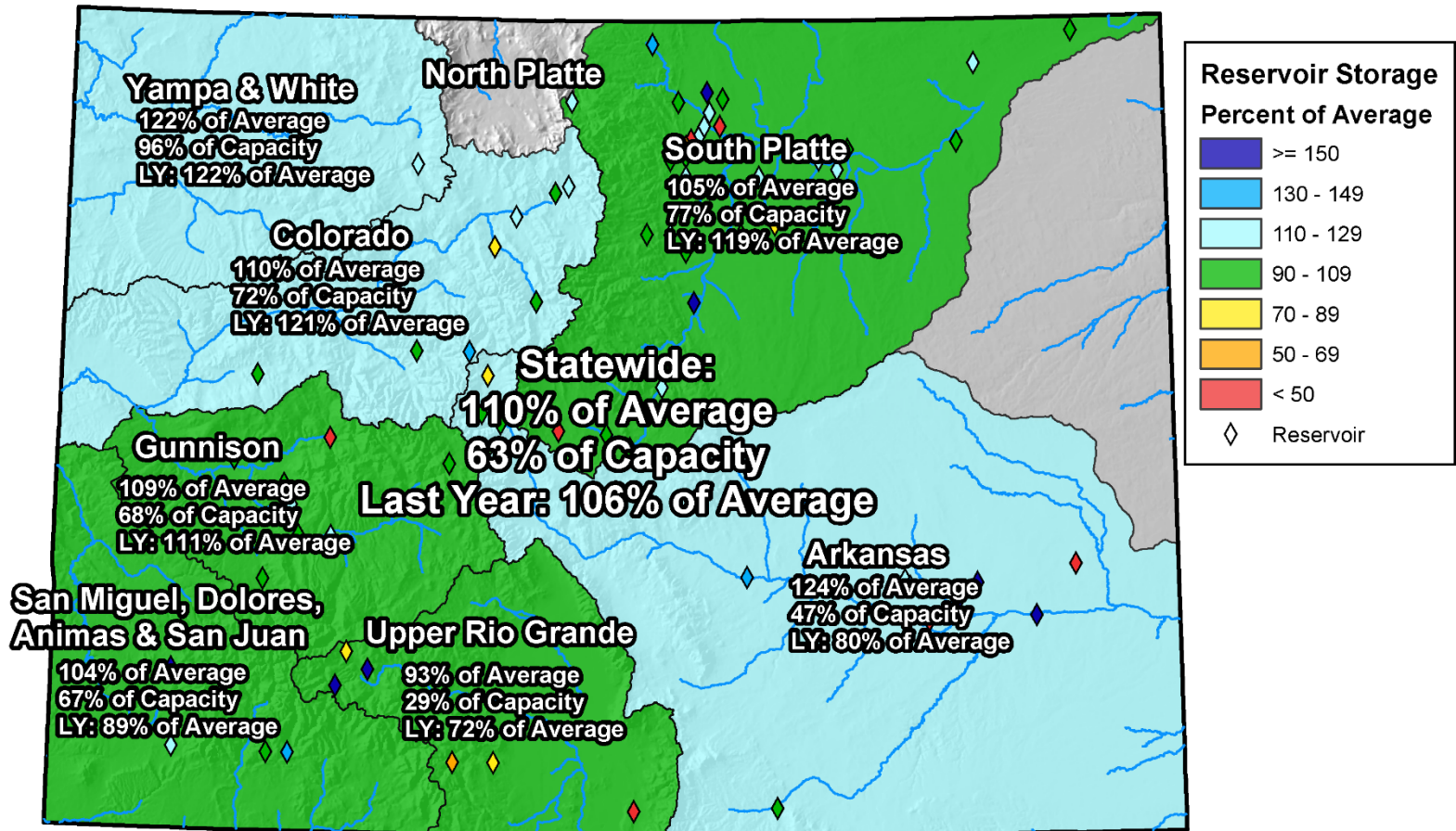
Current as of Mar 25, 2016



0 25 50 100 150 200 Miles

Colorado Monthly Reservoir Storage Summary

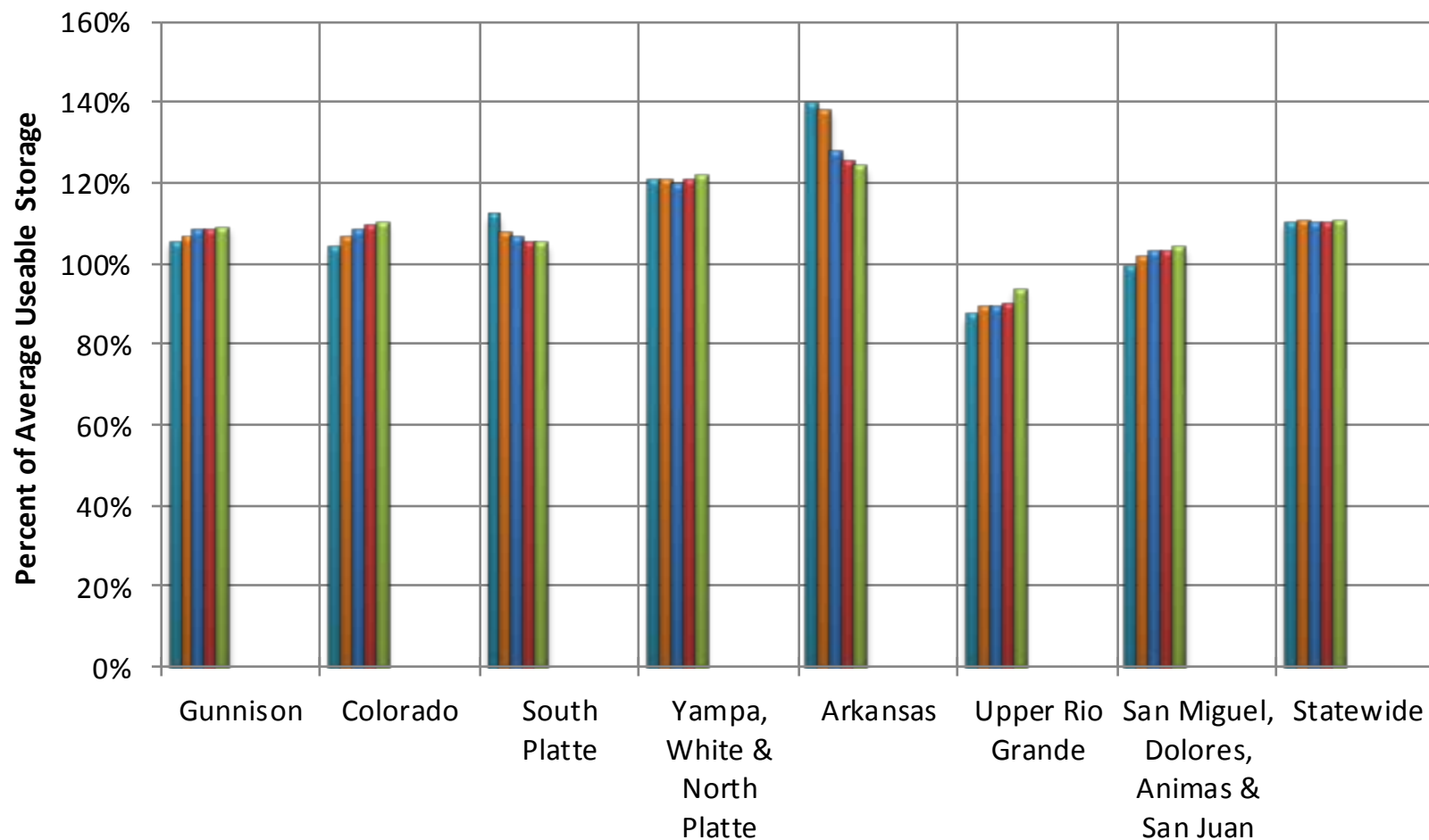
End of February 2016



0 25 50 100 150 200 Miles

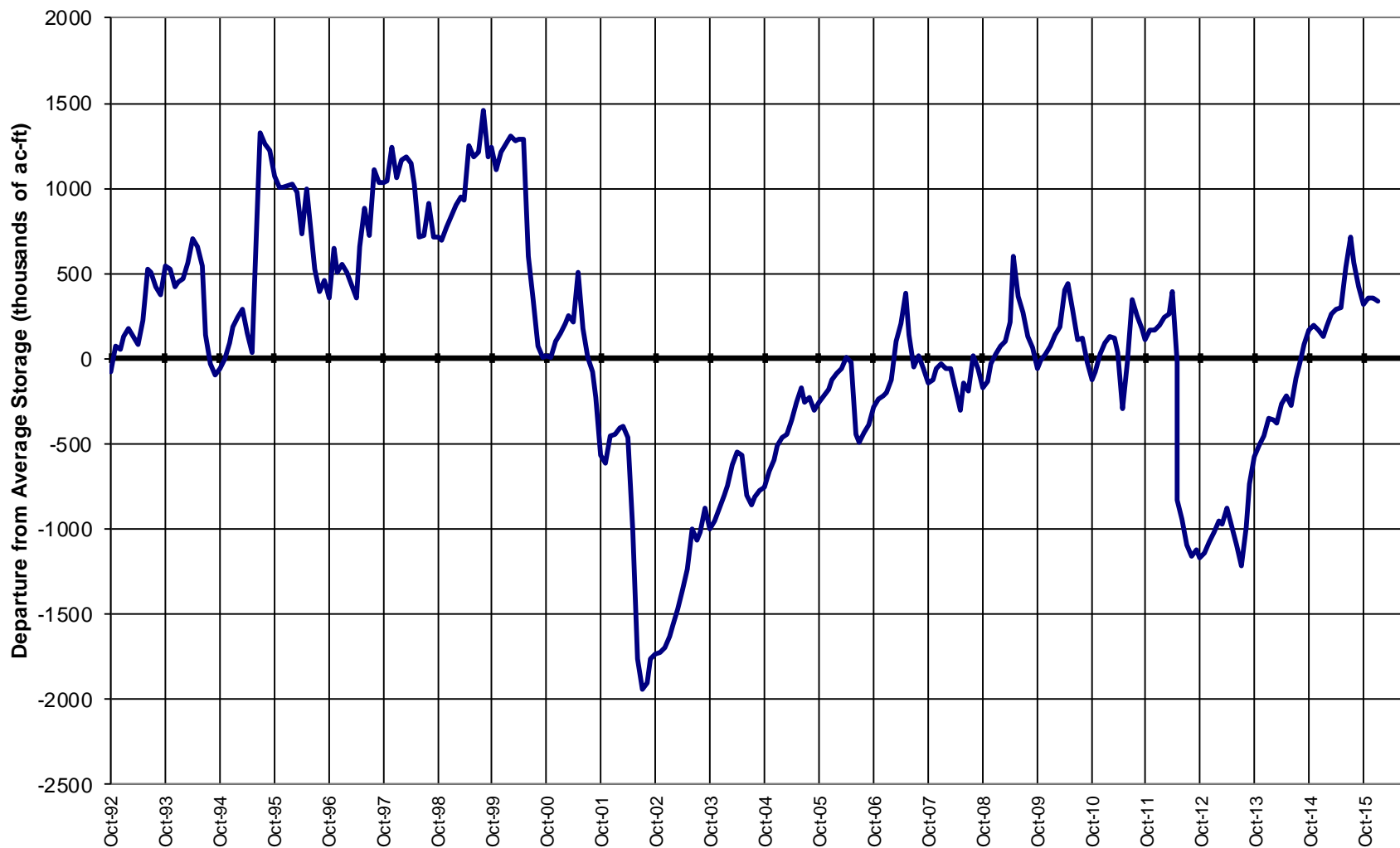
Colorado Reservoir Storage

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

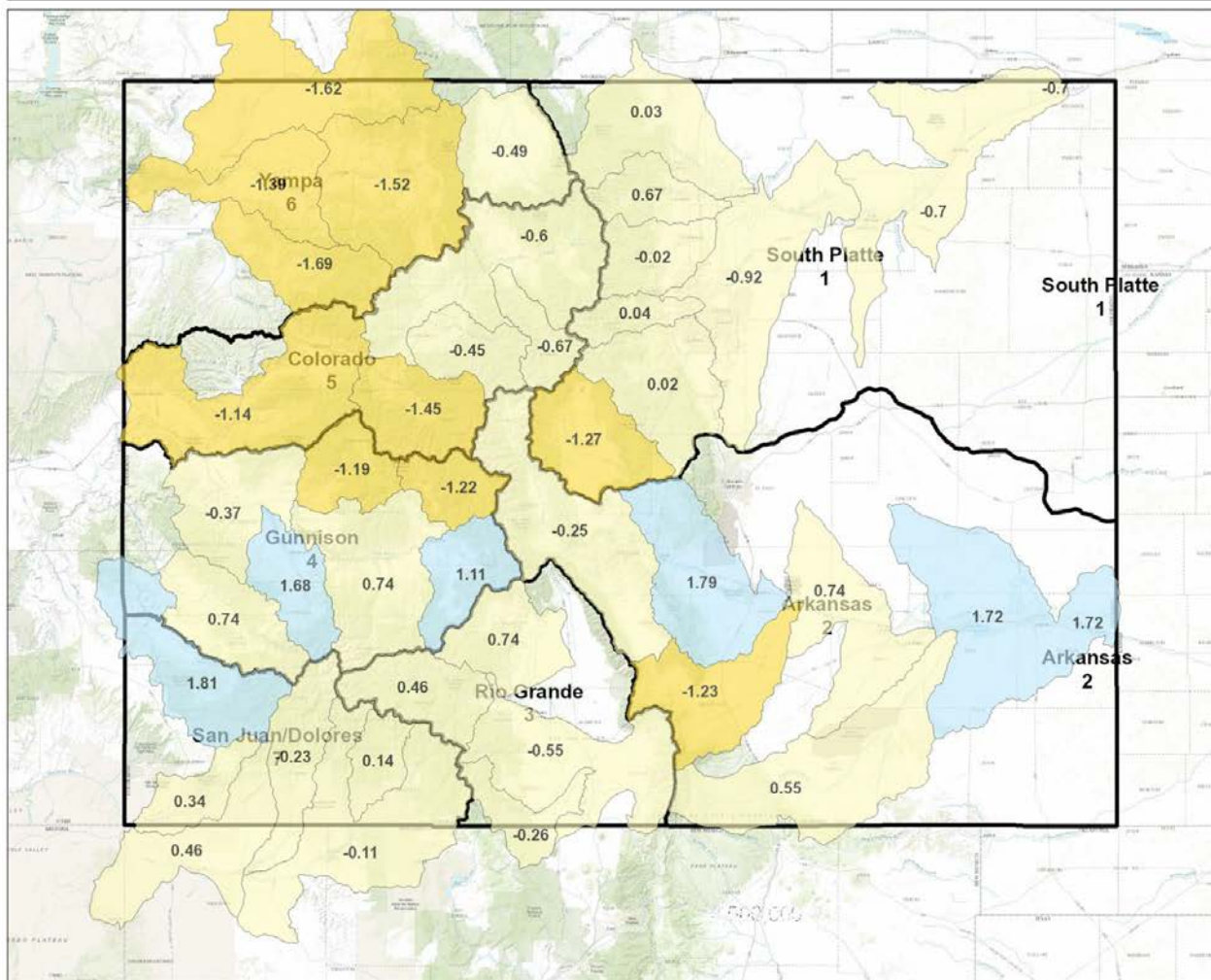




CDSS

Colorado's Decision Support Systems

Colorado March 1 SWSI Map



Legend

SWSI - Current (March 2016)

- SWSI Not Applicable (-99.99)
- Extremely Dry (-3.0 to -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

Location



Notes

110.39 0 55.2 110.39 Miles

1: 3,497,157



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: 3/25/2016 3:55:54 PM

Summary

- Snowpack statewide is now near normal
- February was a very poor precip month
- Continued poor precip in the southern half of the state has taken a toll
- Streamflow forecasts have fallen and now range from 107% to 65% of average with most forecasts near 90% of normal runoff expected this spring & early summer
- Reservoirs statewide remain in relatively good standing at 110% of normal, same as last month
- SWSIs are becoming more widely dispersed but don't vary greatly.



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

March 24th, 2016

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos

Hydrologist

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