



United States Department of Agriculture

Colorado Snow Surveys

# Water Availability Task Force Meeting

## January 20<sup>th</sup>, 2016

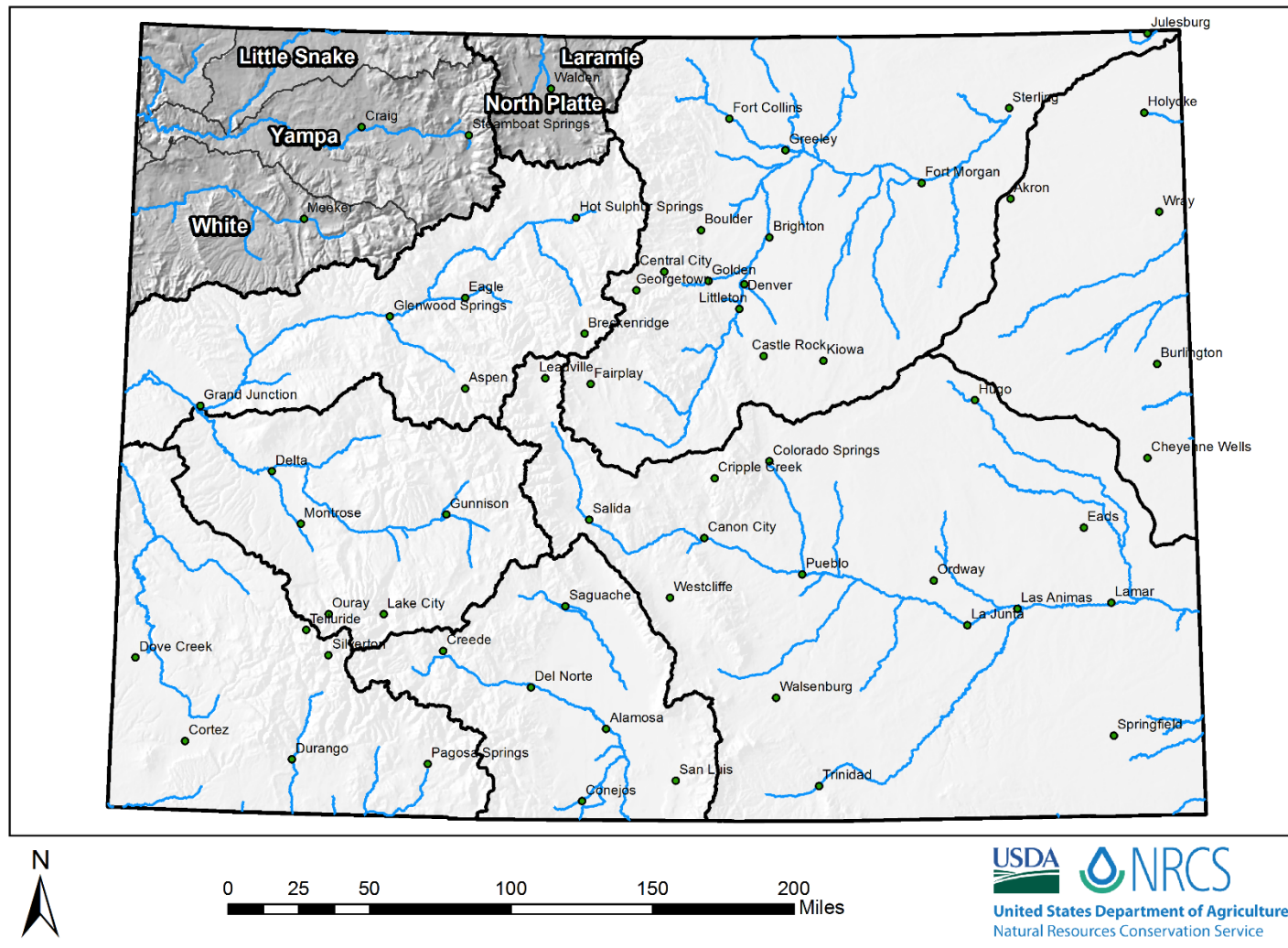
### NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos  
Snow Survey Supervisor  
720-544-2853

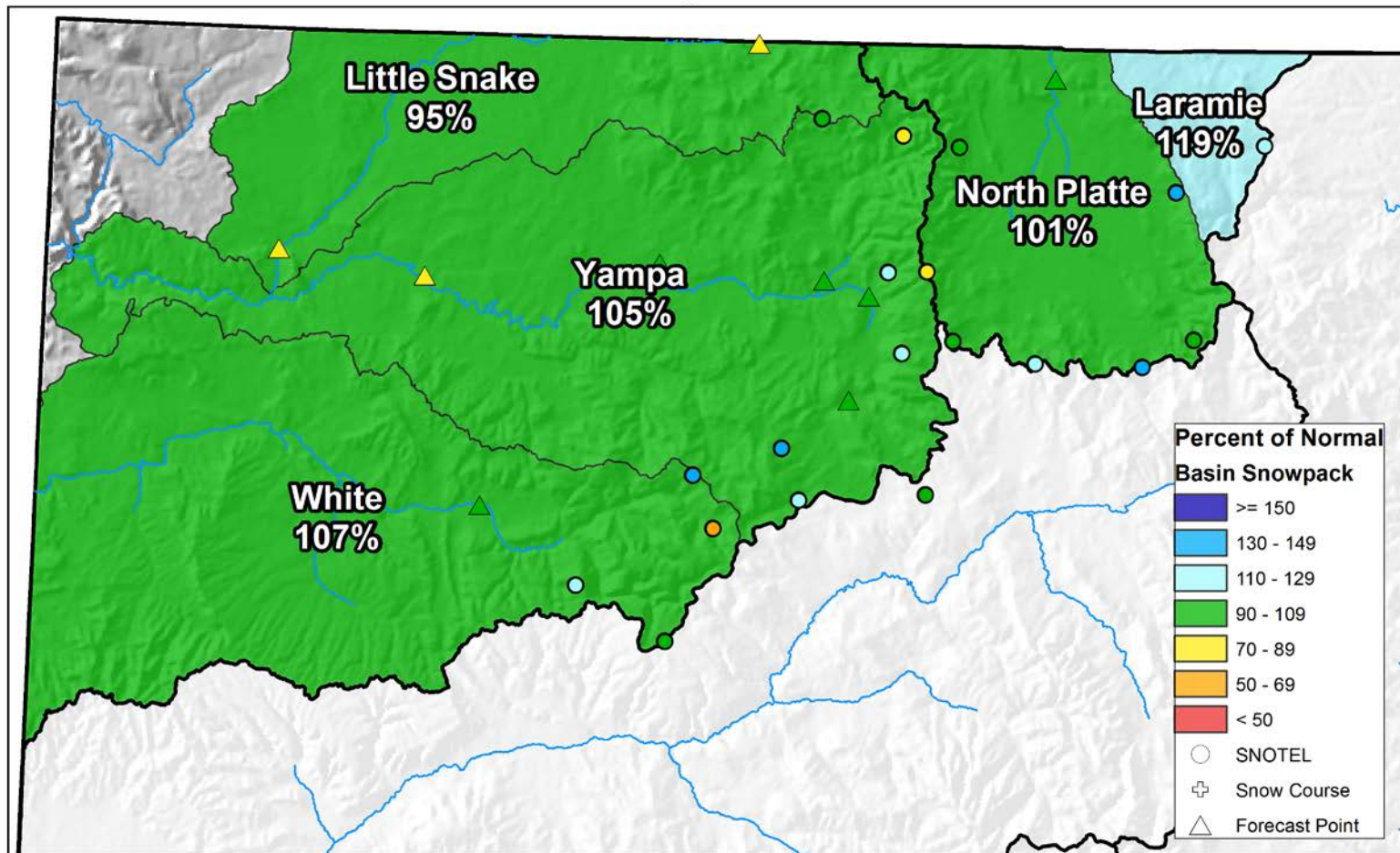
<http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/>

## Major Basin Summary

Yampa, White, and North Platte River Basins



## Yampa, White, and North Platte River Basins Snowpack and Streamflow Forecasts January 1, 2016

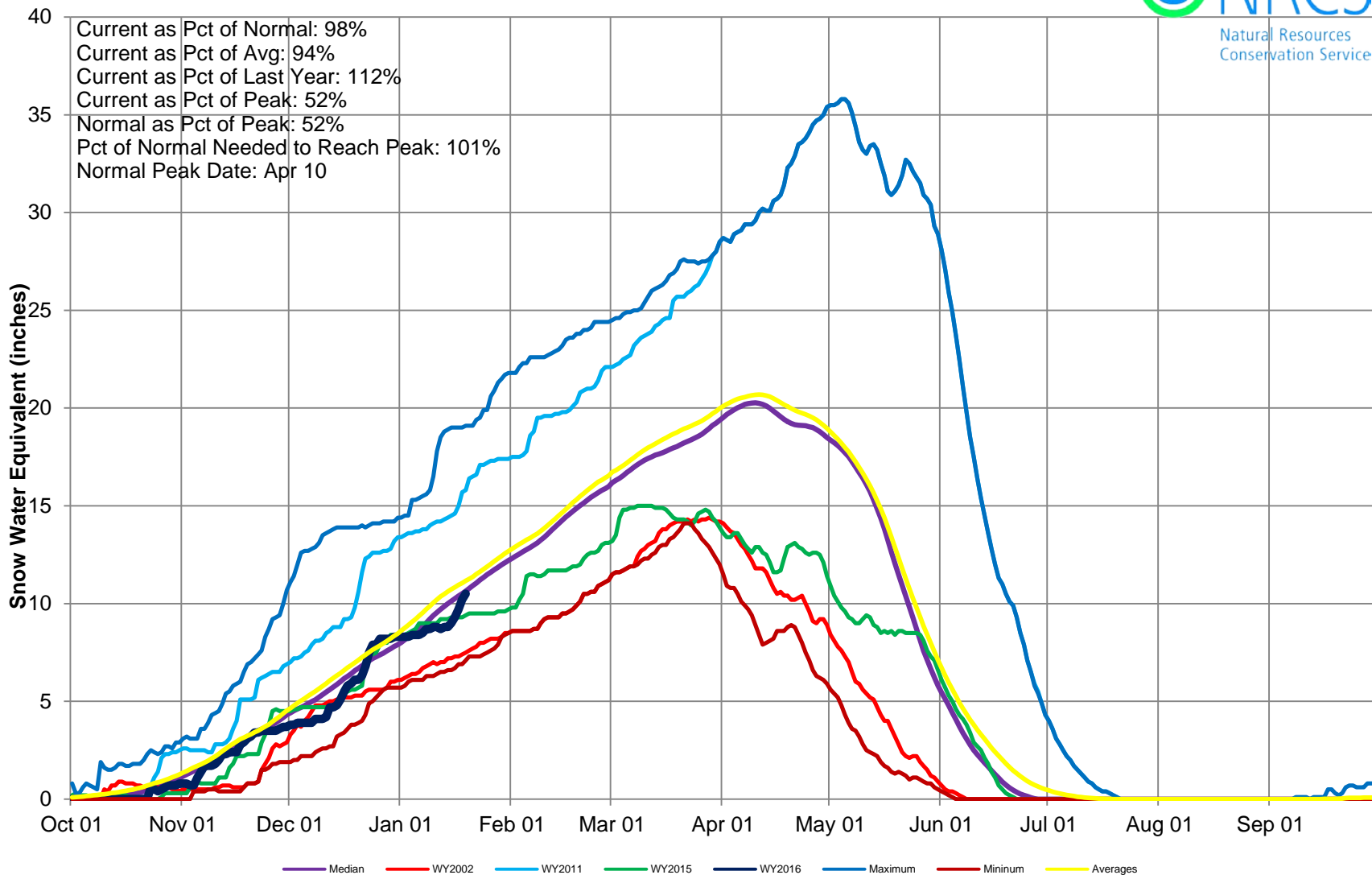


0 10 20 40 60 80 Miles



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

*Based on Provisional SNOTEL data as of Jan 19, 2016*

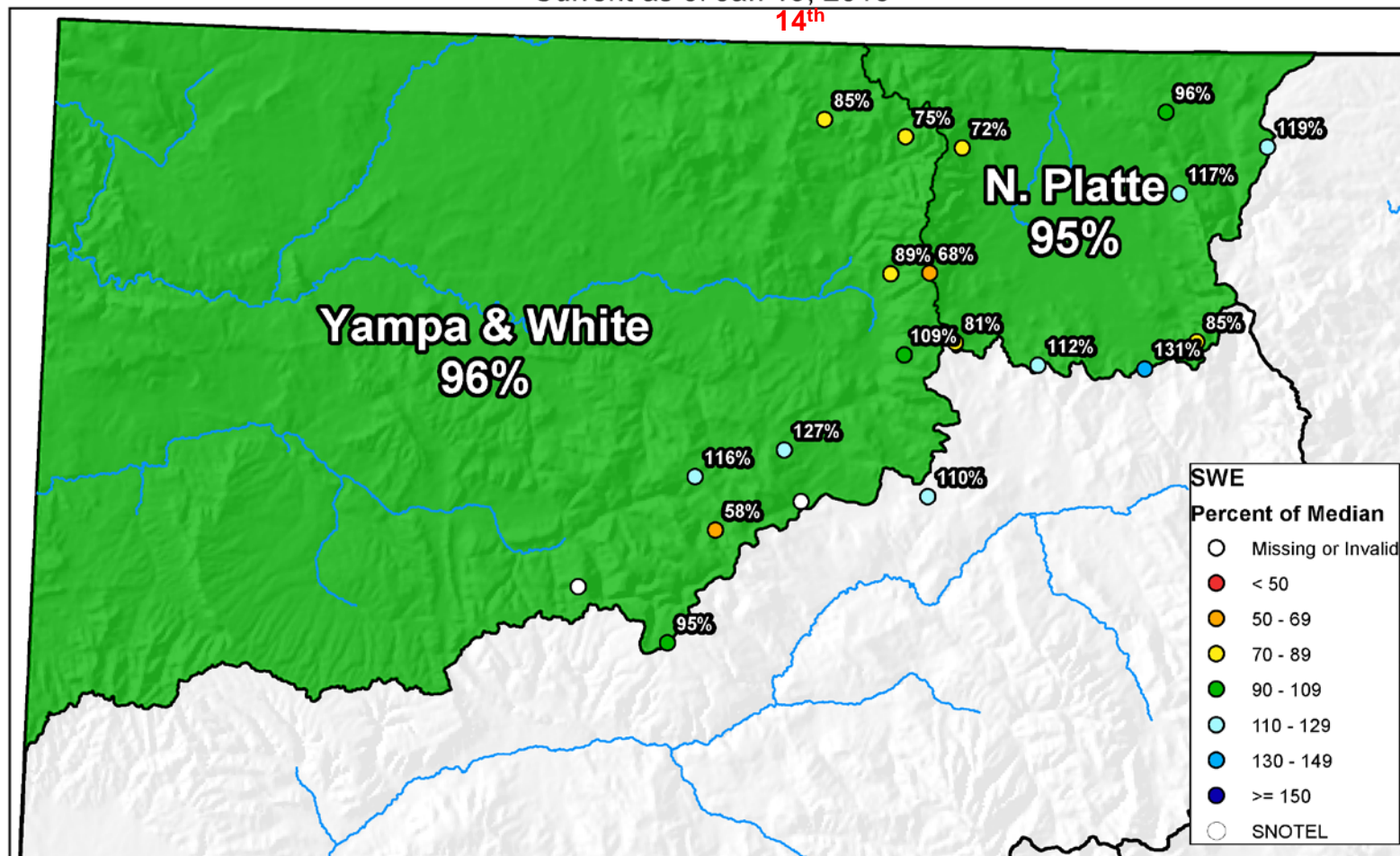




## Yampa, White, and North Platte River Basins Snow Water Equivalent (SWE) Summary

Current as of Jan 19, 2016

14<sup>th</sup>

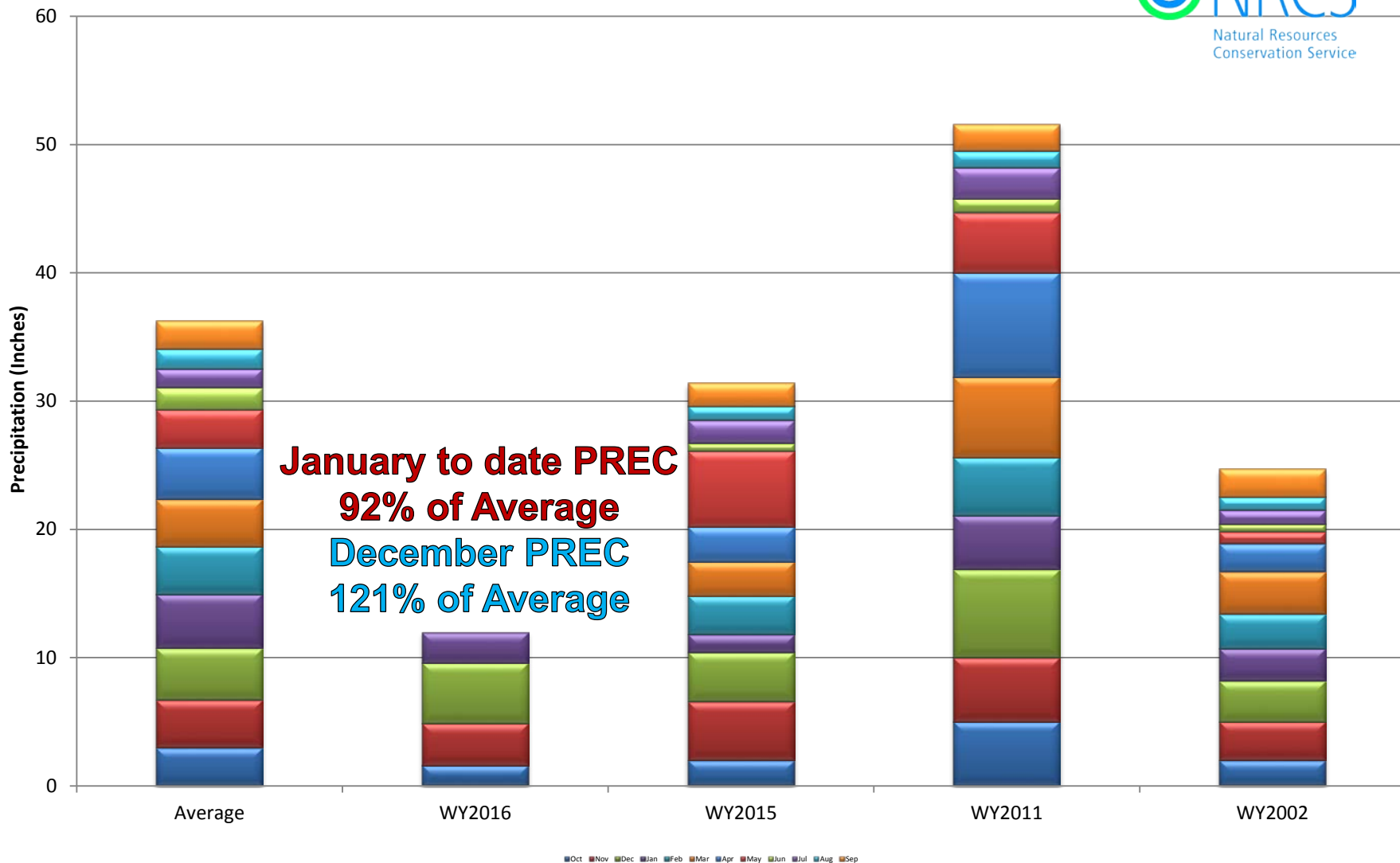


0 10 20 40 60 80 Miles



## Yampa & White River Basins High/Low Monthly Precipitation Summary

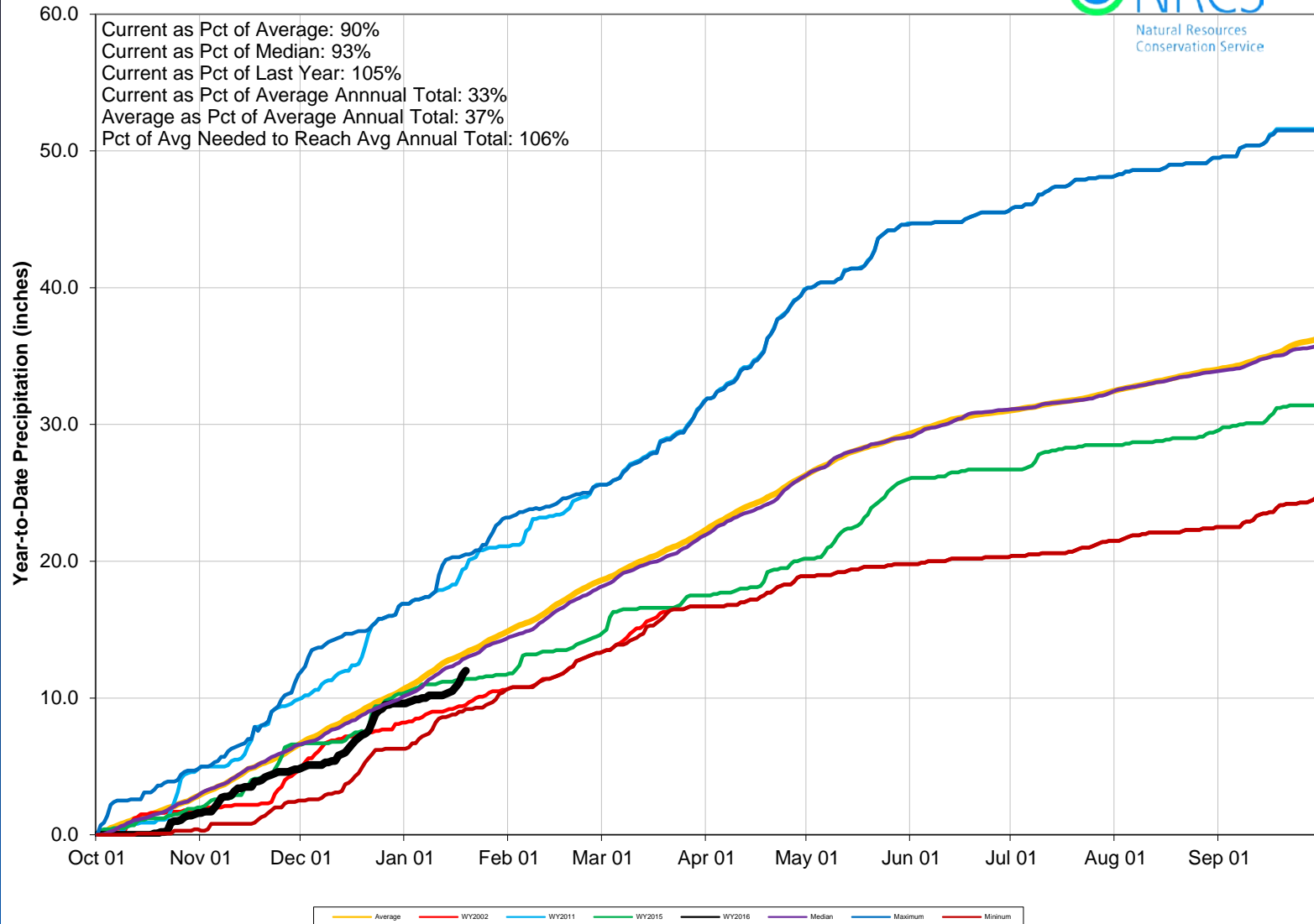
*Based on Provisional SNOTEL data as of Jan 19, 2016*

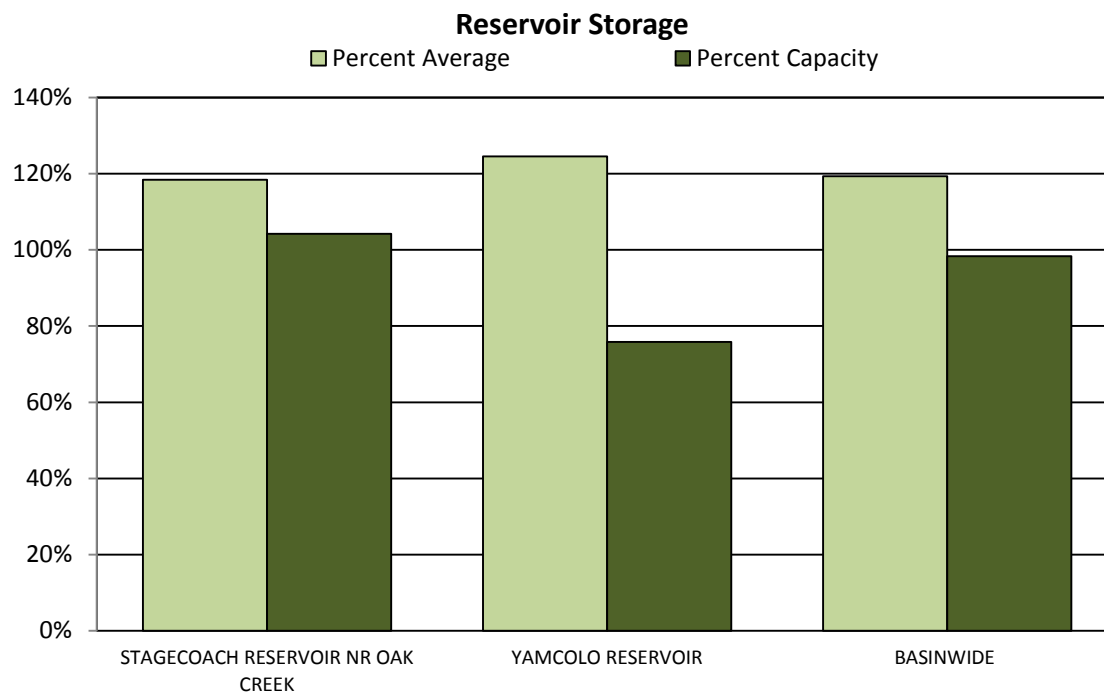




## Yampa & White River Basins High/Low Year-to-Date Precipitation Summary

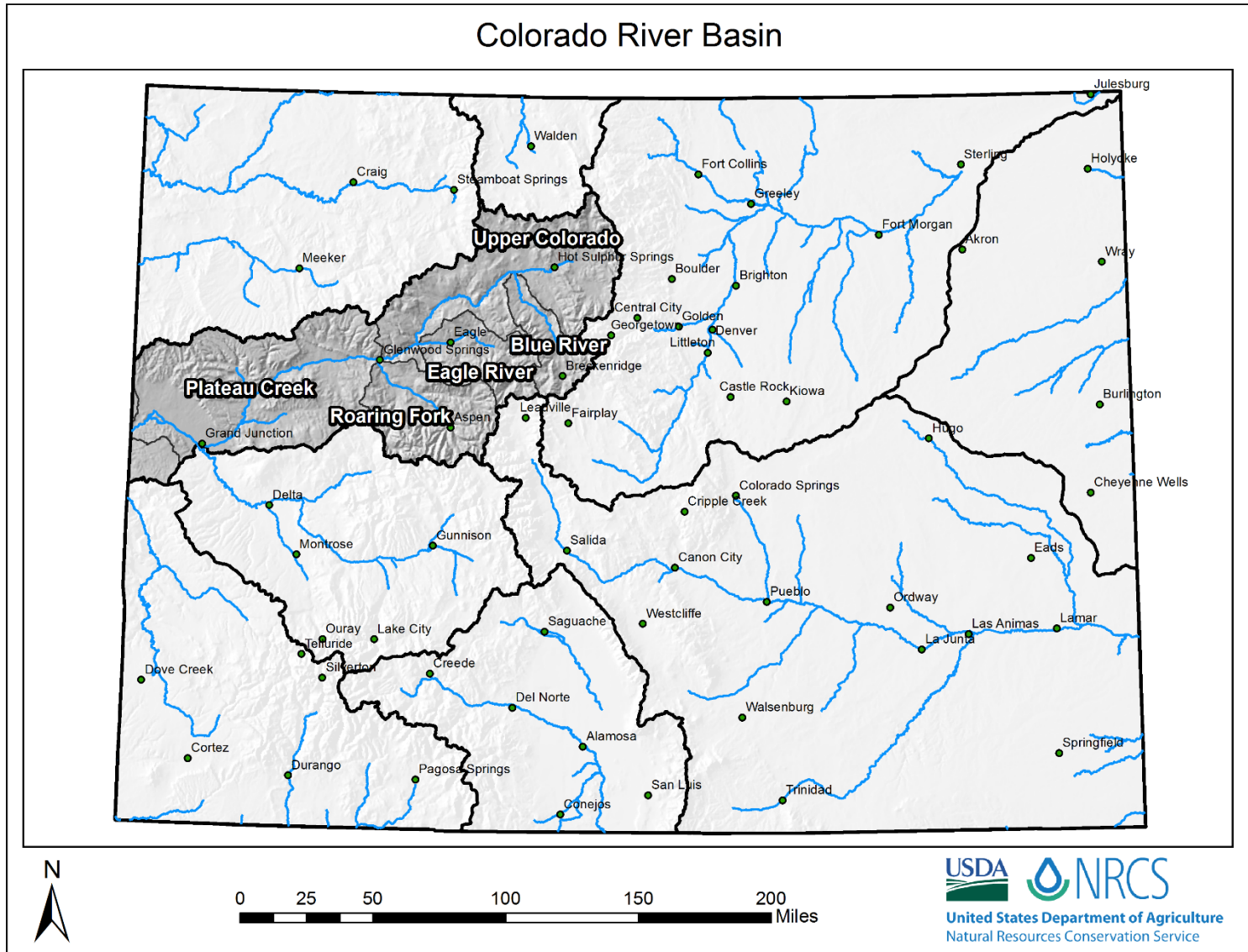
*Based on Provisional SNOTEL data as of Jan 19, 2016*



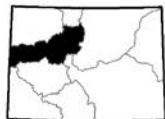
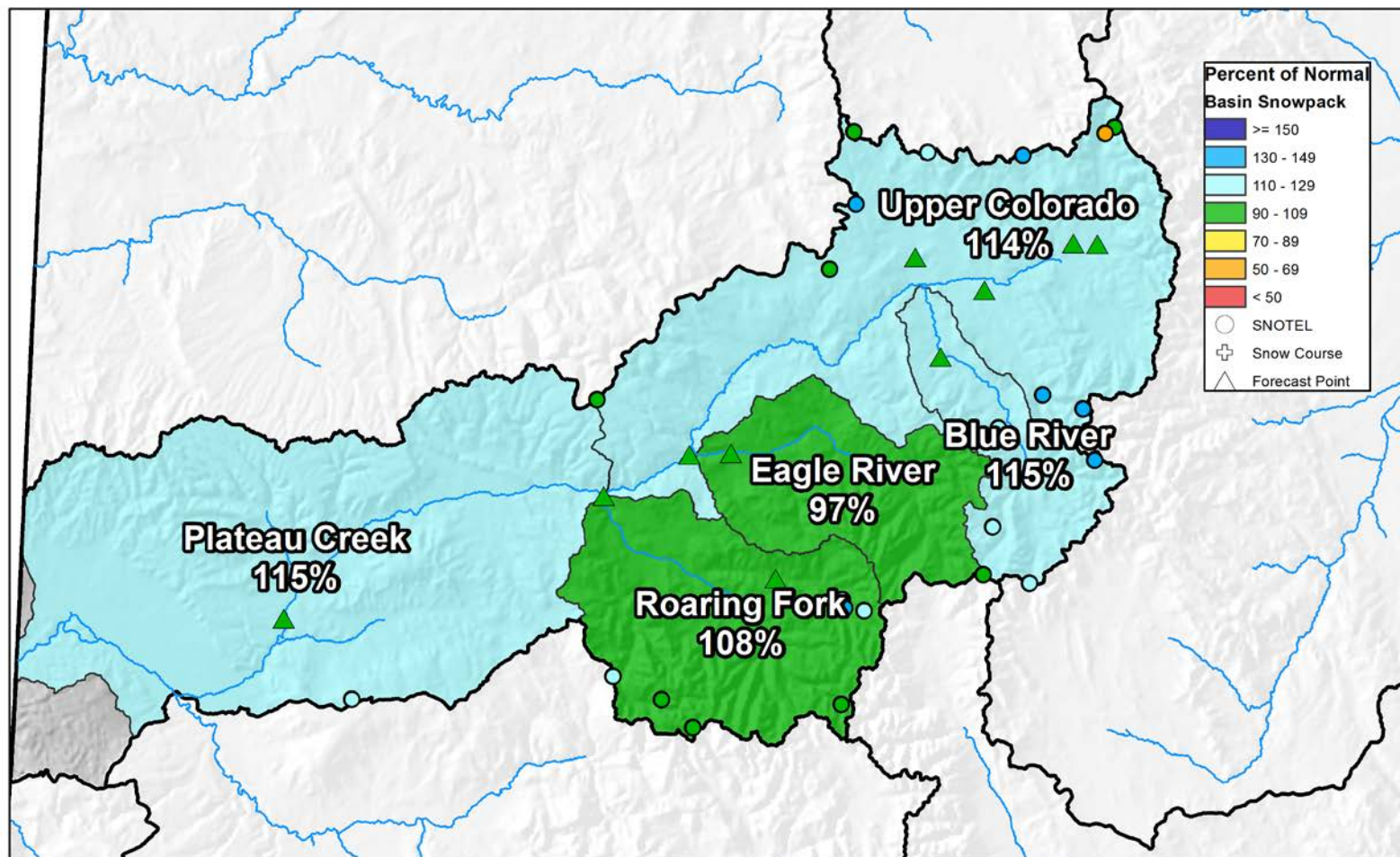




## Major Basin Summary



## Upper Colorado River Basin Snowpack and Streamflow Forecasts January 1, 2016

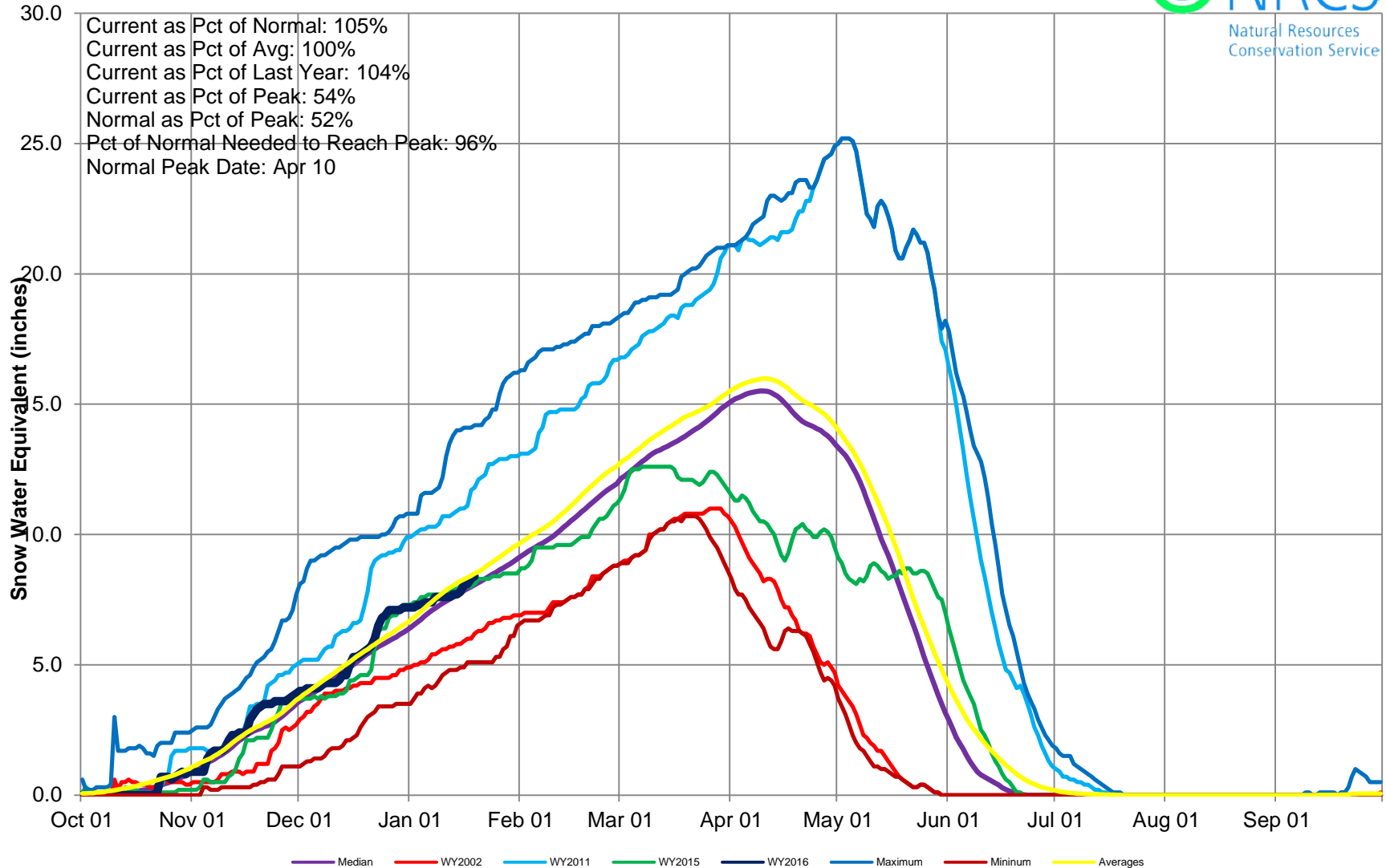


0 10 20 40 60 80 Miles



## Upper Colorado River Basin High/Low Snowpack Summary

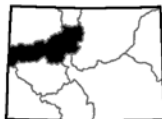
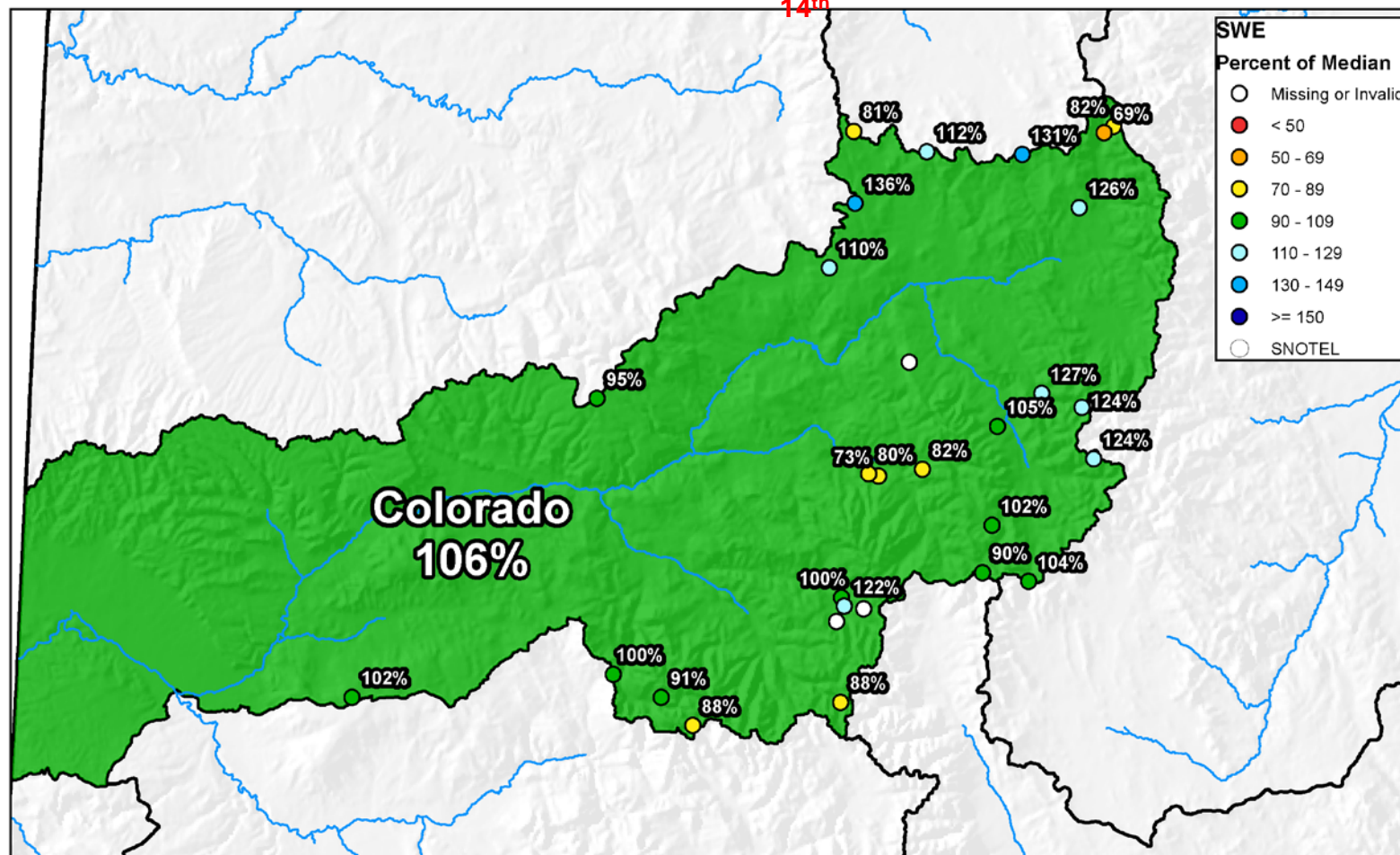
*Based on Provisional SNOTEL data as of Jan 19, 2016*





## Upper Colorado River Basin Snow Water Equivalent (SWE) Summary

Current as of Jan 19, 2016



0 10 20 40 60 80 Miles



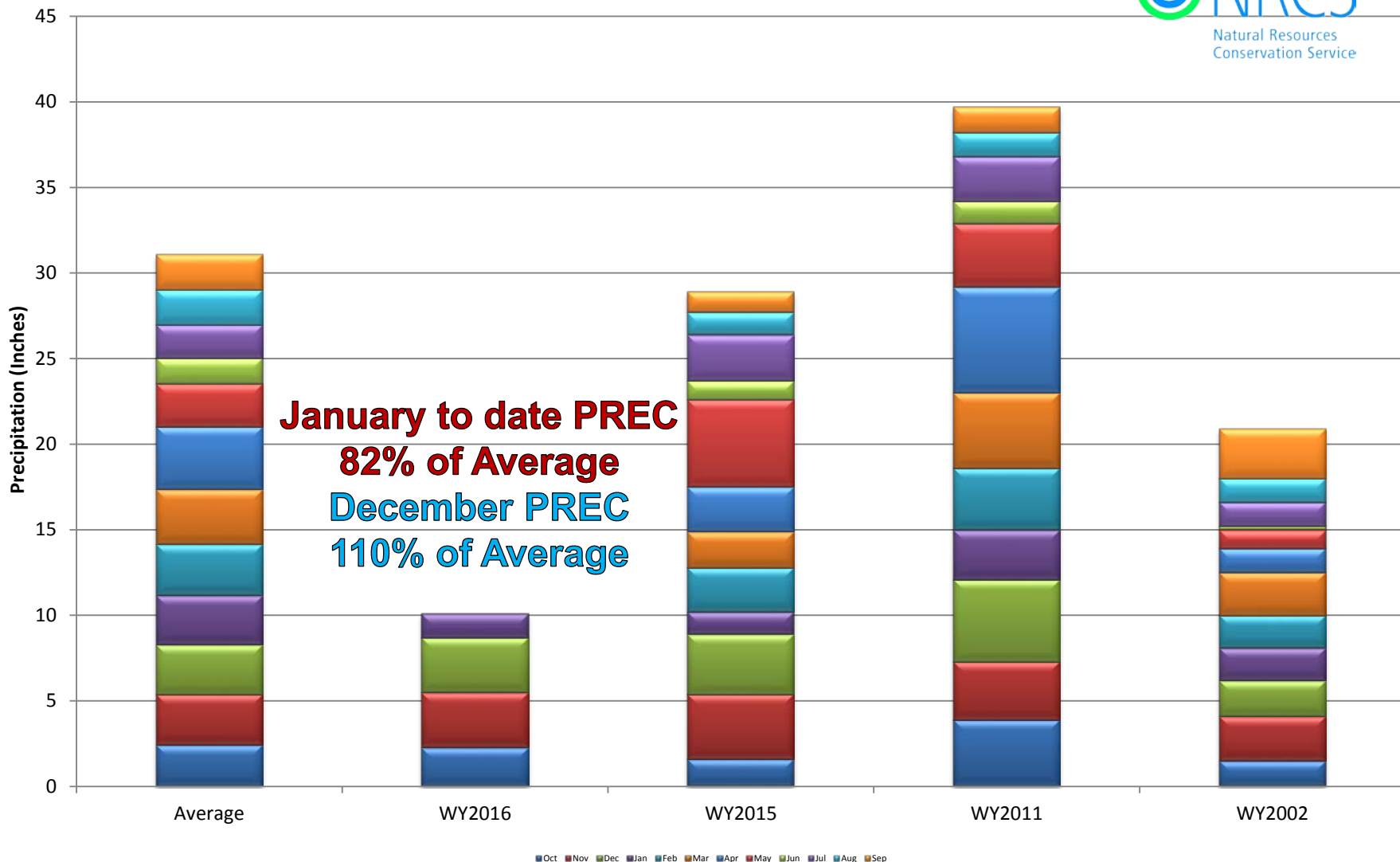
United States Department of Agriculture

Natural Resources Conservation Service



## Upper Colorado River Basin High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jan 19, 2016*



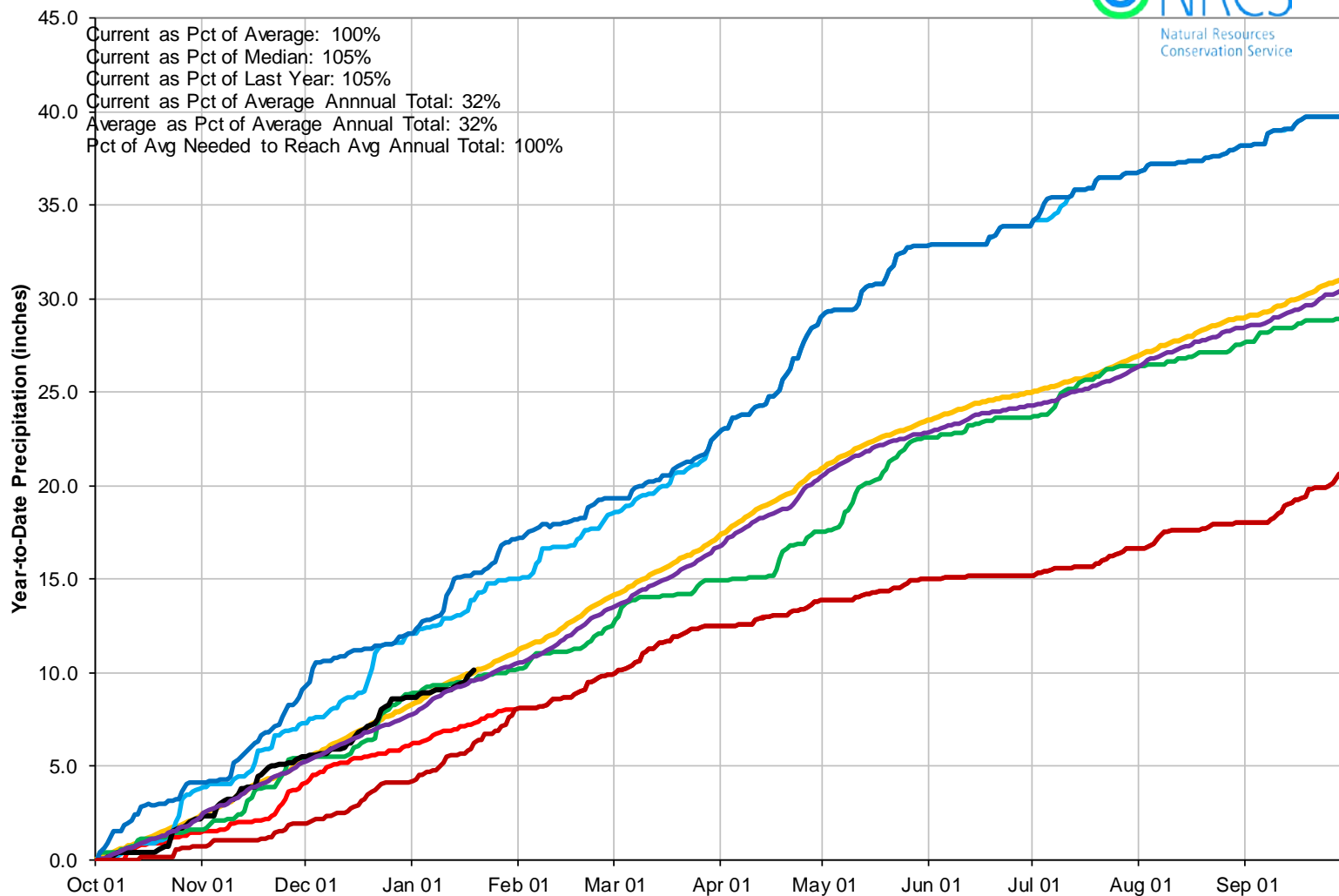


## Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

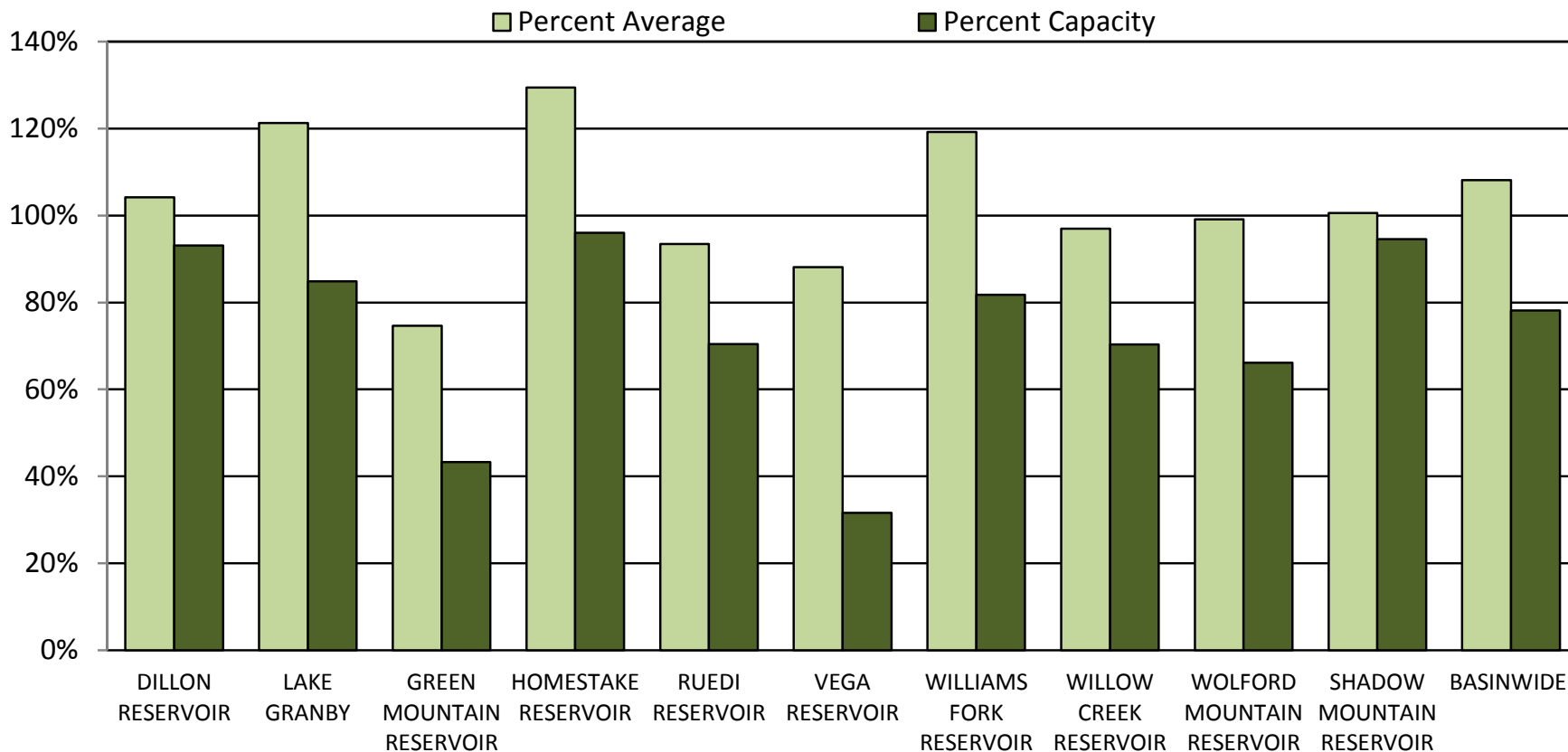
*Based on Provisional SNOTEL data as of Jan 19, 2016*



Natural Resources  
Conservation Service

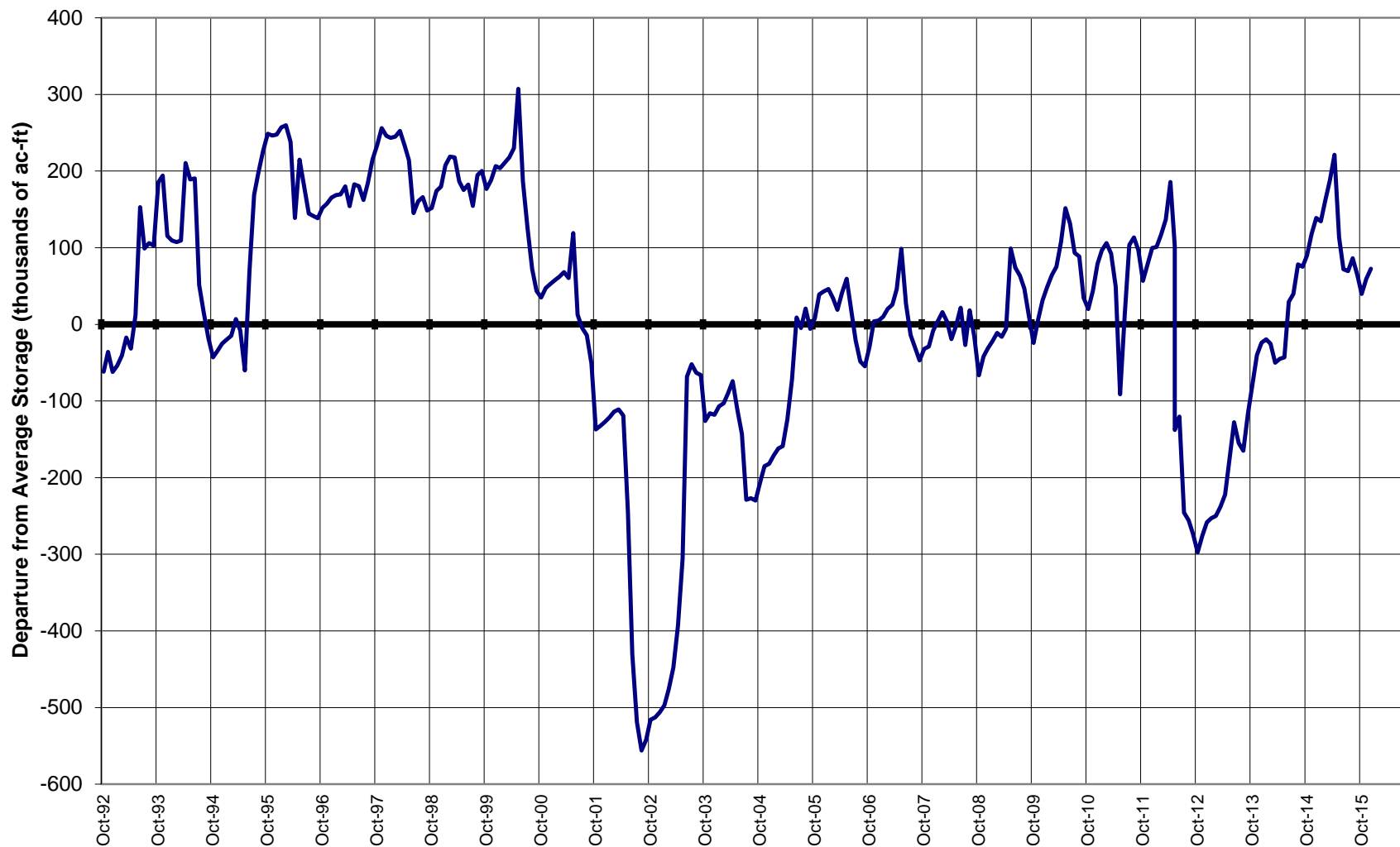


## Reservoir Storage





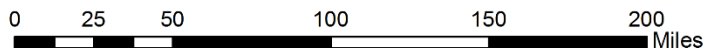
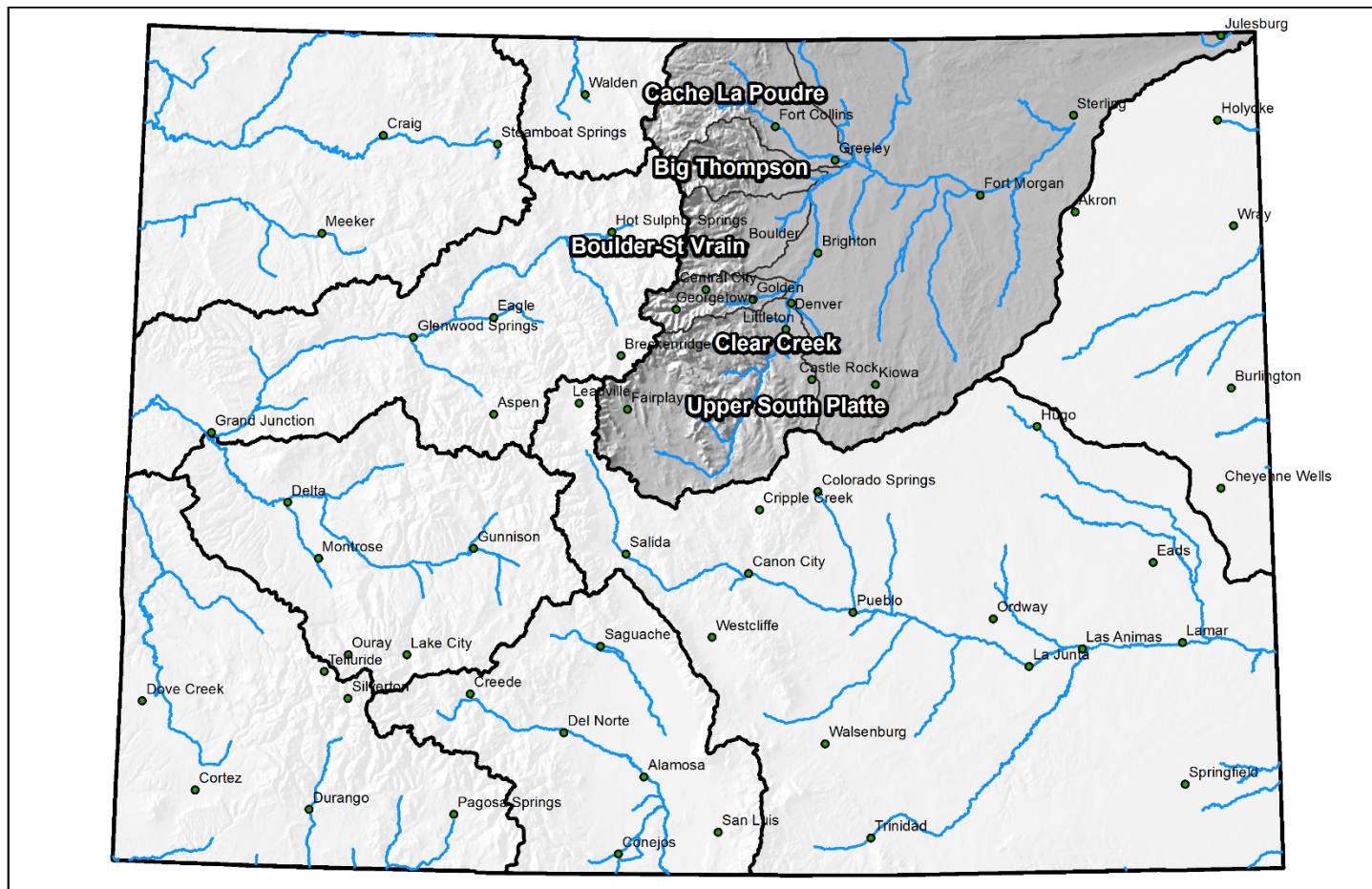
## COLORADO RIVER BASIN Reservoir Storage Departure from Average



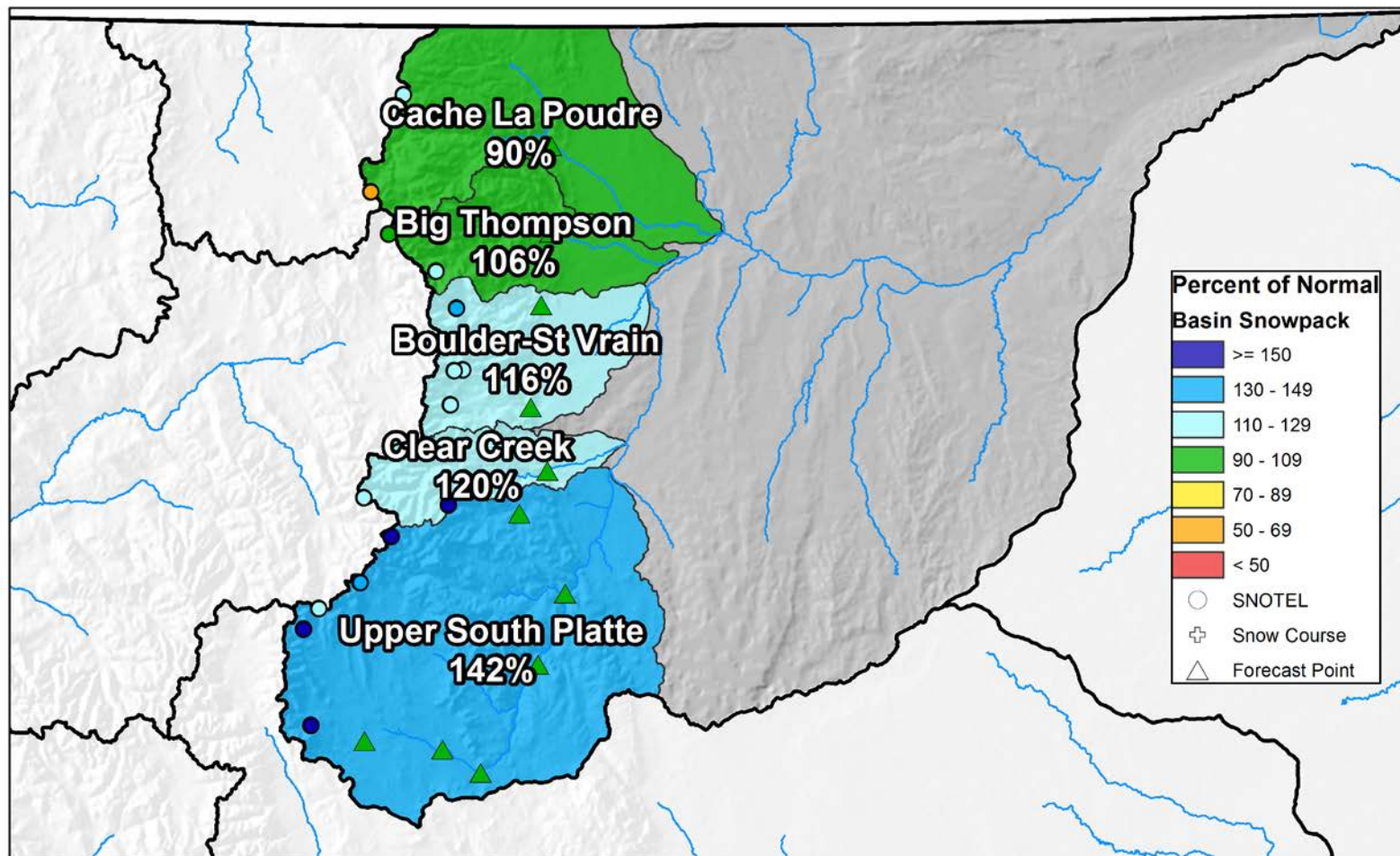


## Major Basin Summary

### South Platte River Basin



## South Platte River Basin Snowpack and Streamflow Forecasts January 1, 2016

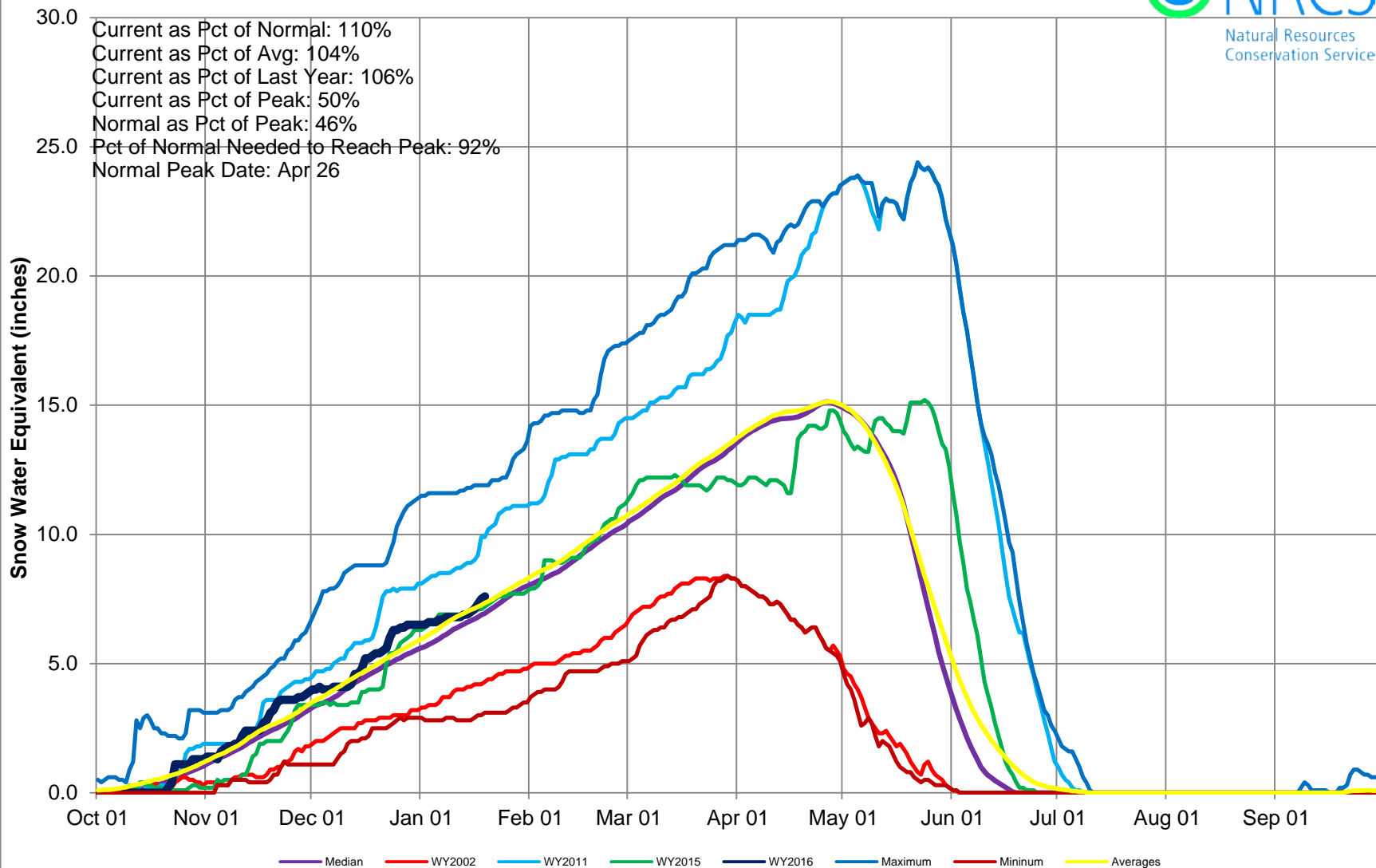


0 10 20 40 60 80 Miles



## South Platte River Basin High/Low Snowpack Summary

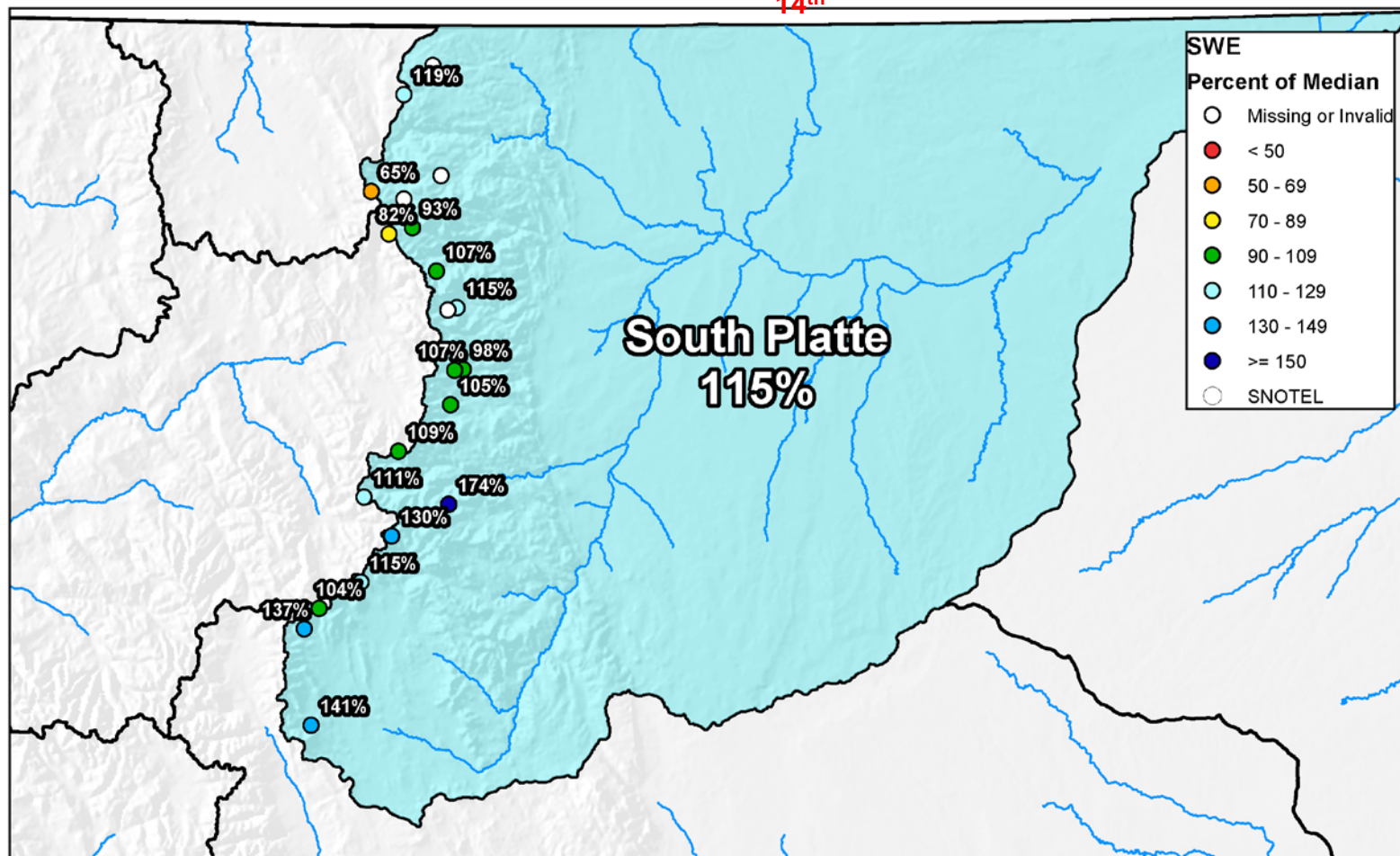
*Based on Provisional SNOTEL data as of Jan 19, 2016*





## South Platte River Basin Snow Water Equivalent (SWE) Summary

Current as of Jan ~~19~~<sup>14</sup>, 2016

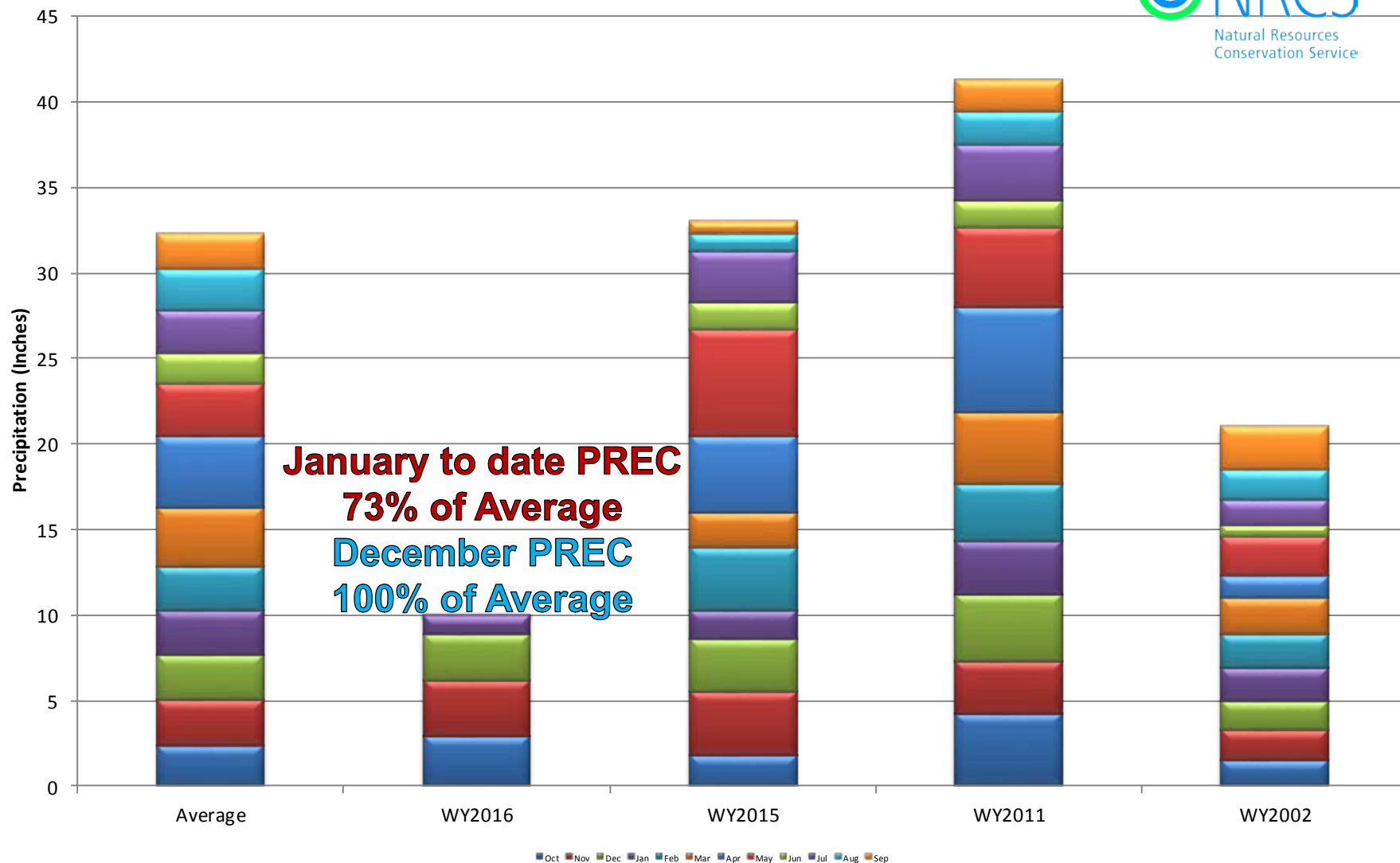


0 10 20 40 60 80 Miles



## South Platte River Basin High/Low Monthly Precipitation Summary

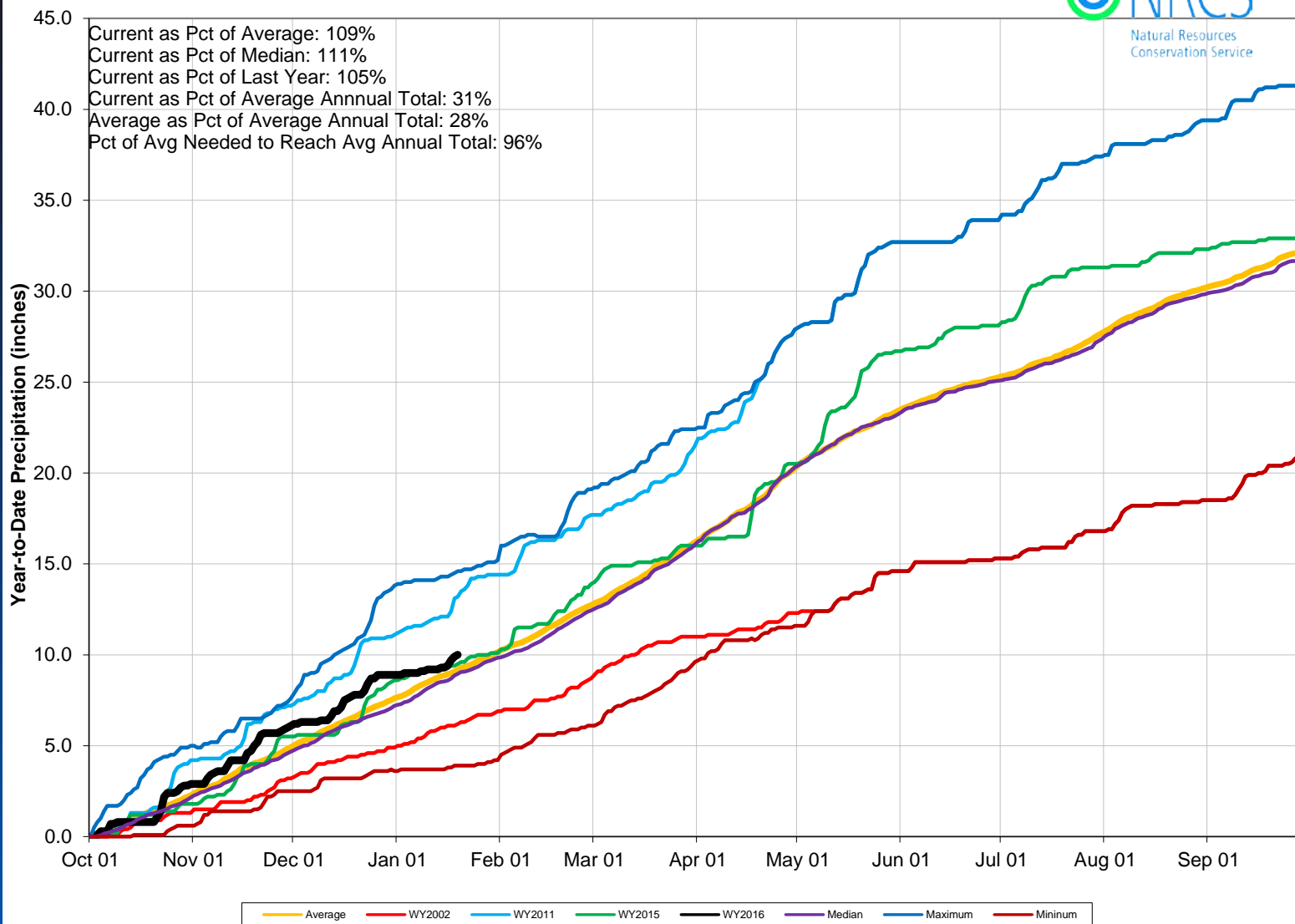
*Based on Provisional SNOTEL data as of Jan 19, 2016*





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

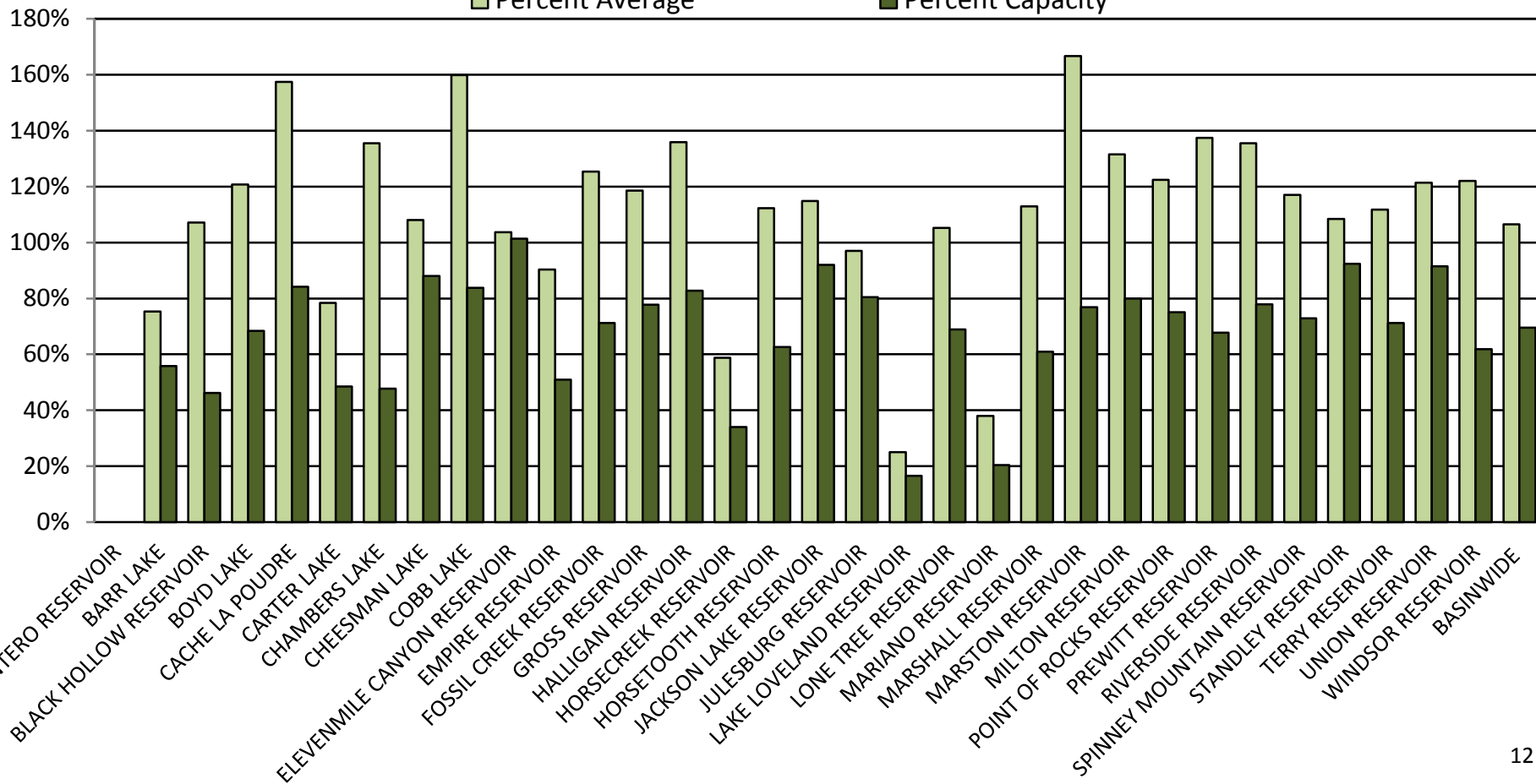
*Based on Provisional SNOTEL data as of Jan 19, 2016*



## Reservoir Storage

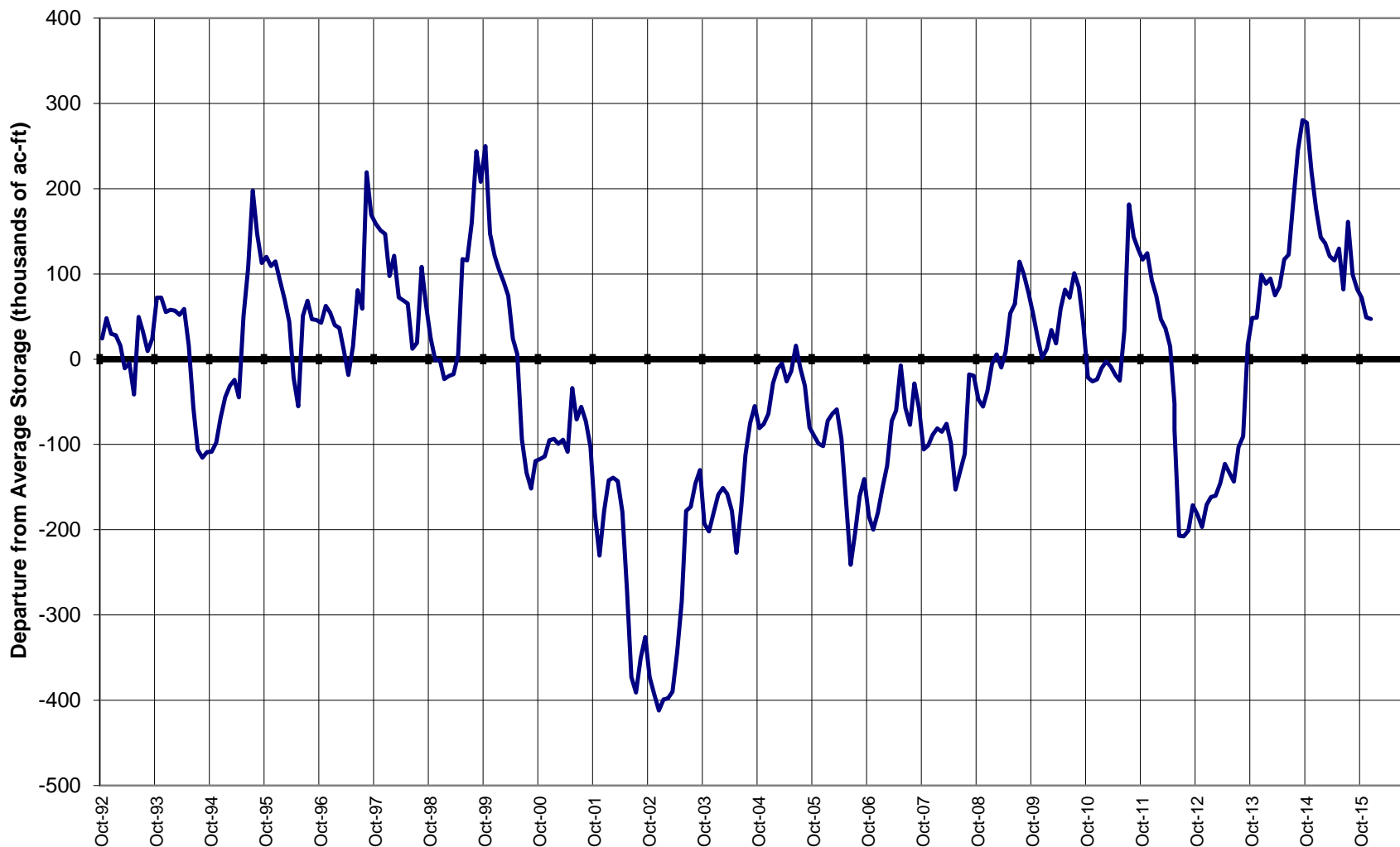
■ Percent Average

■ Percent Capacity



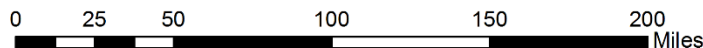
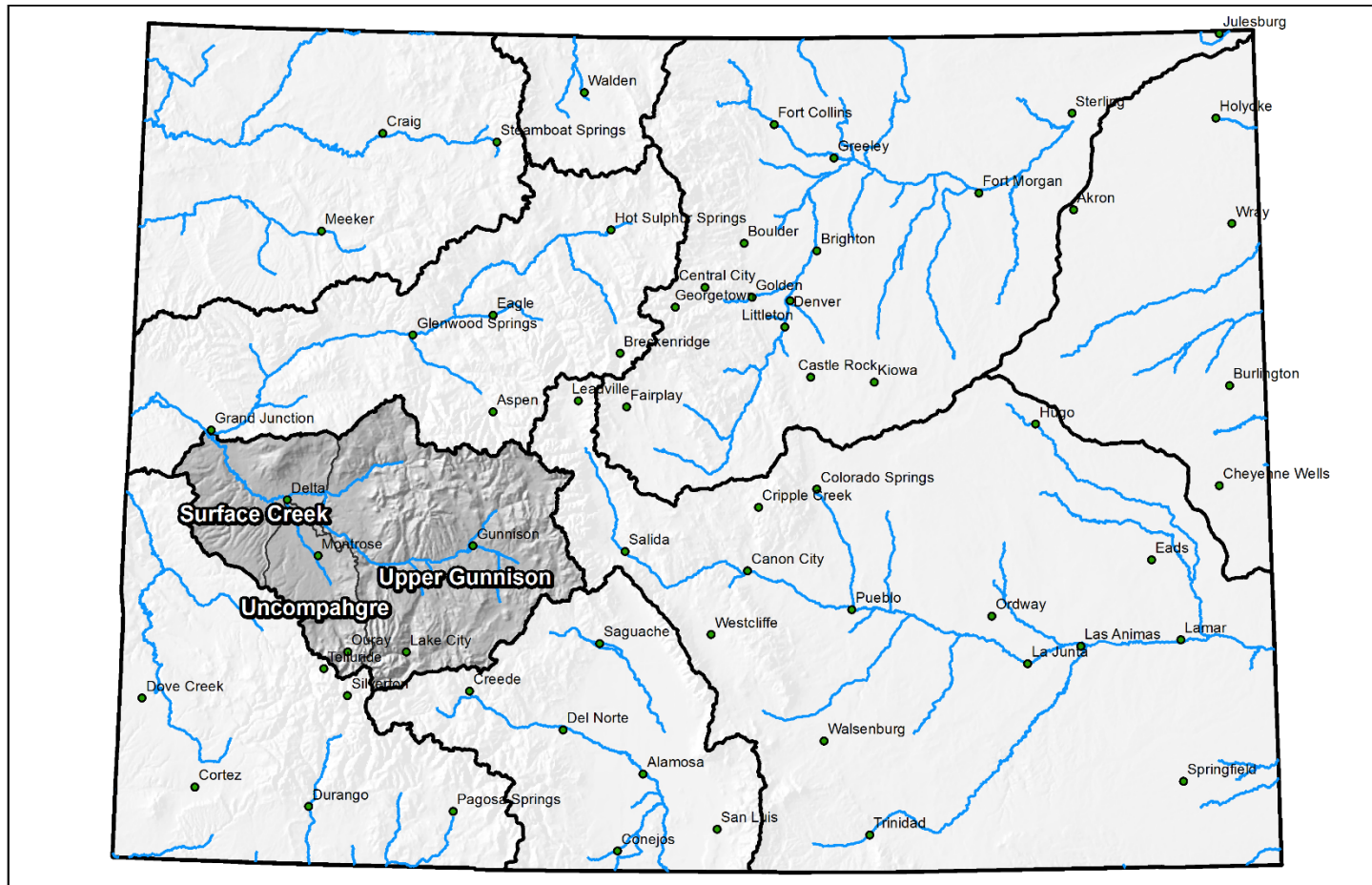


## SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



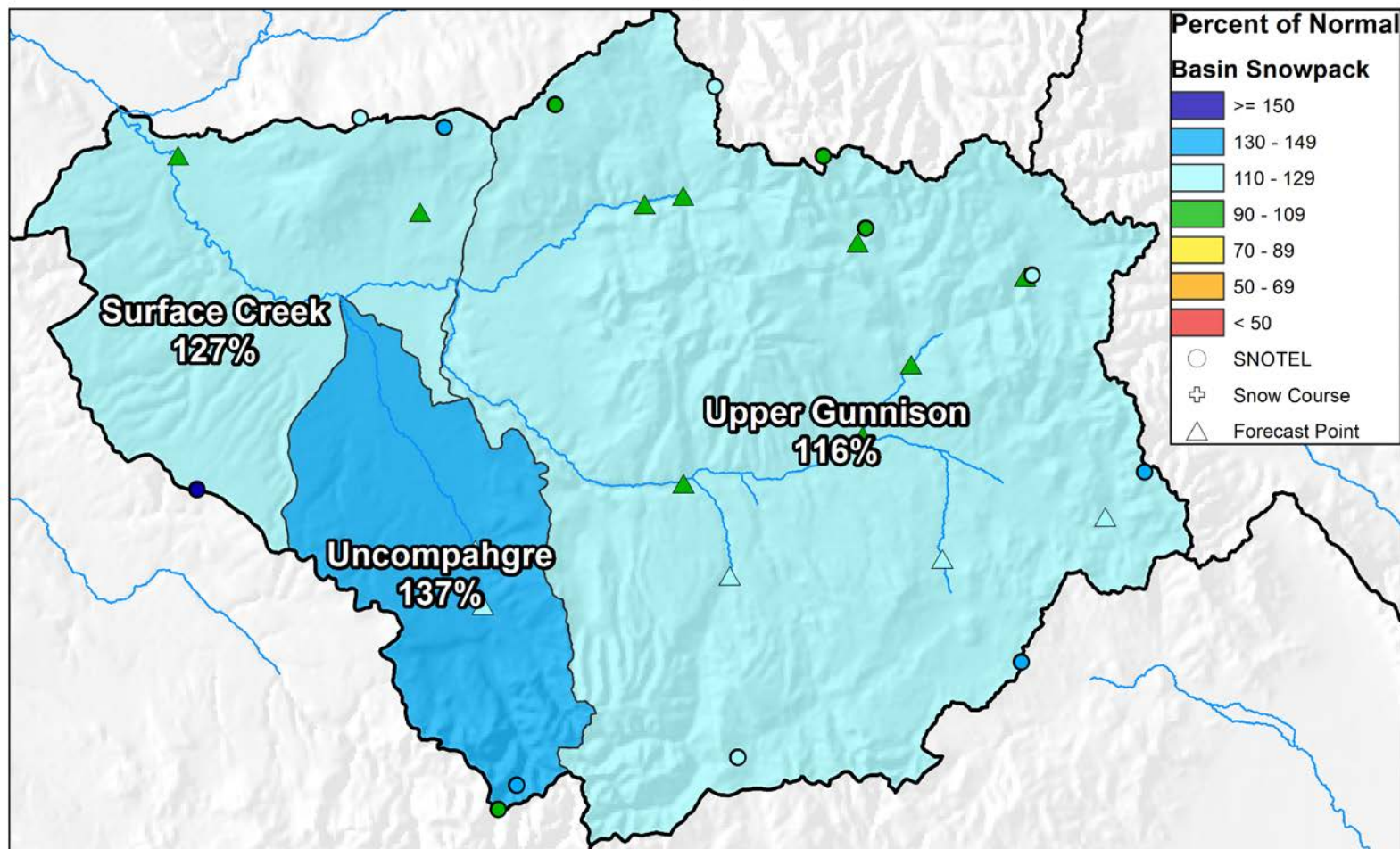
## Major Basin Summary

### Gunnison River Basin





## Gunnison River Basin Snowpack and Streamflow Forecasts January 1, 2016



0 5 10 20 30 40 Miles



United States Department of Agriculture

Natural Resources Conservation Service



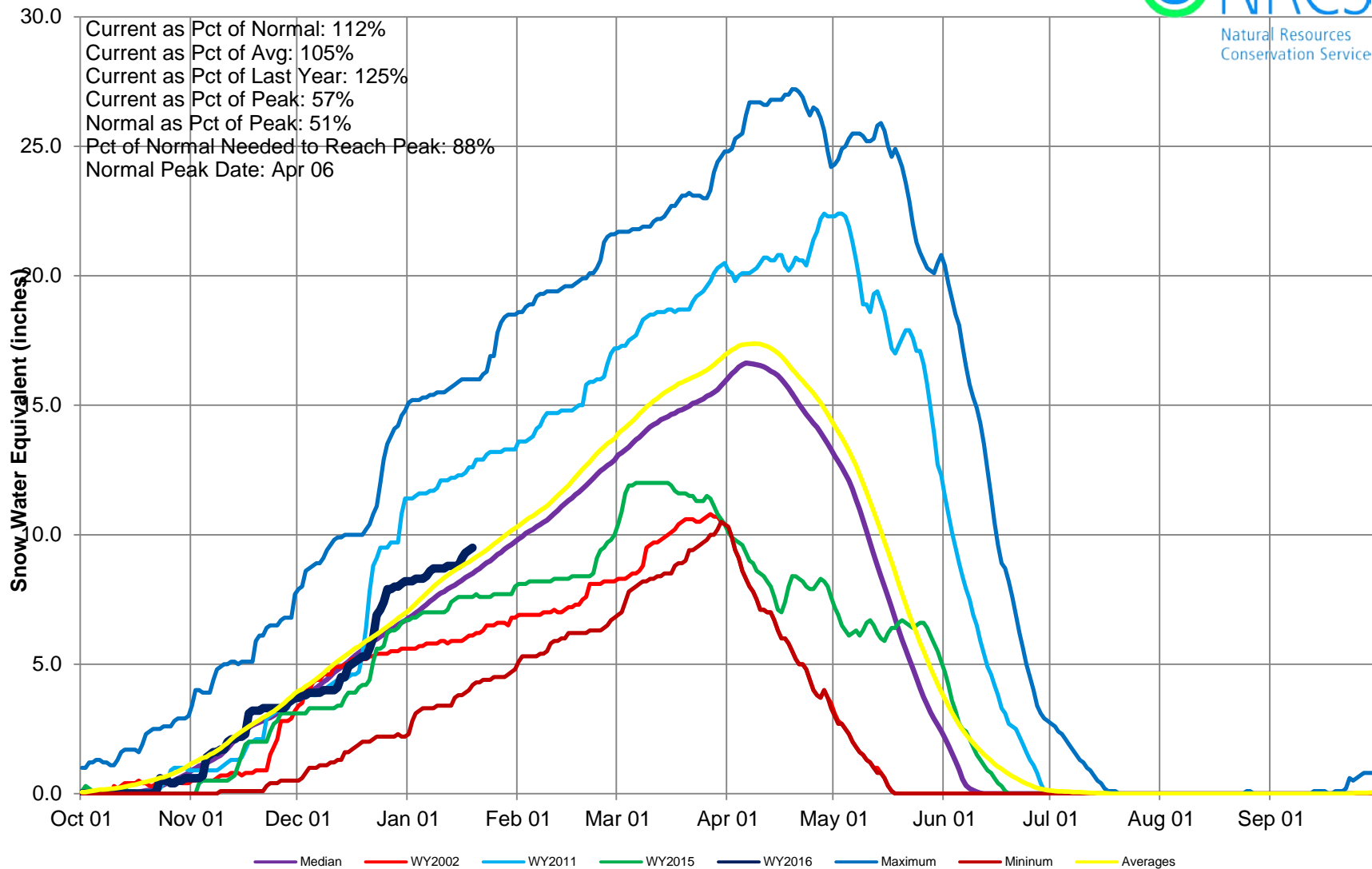


## Gunnison River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jan 19, 2016*



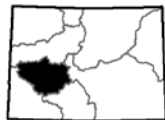
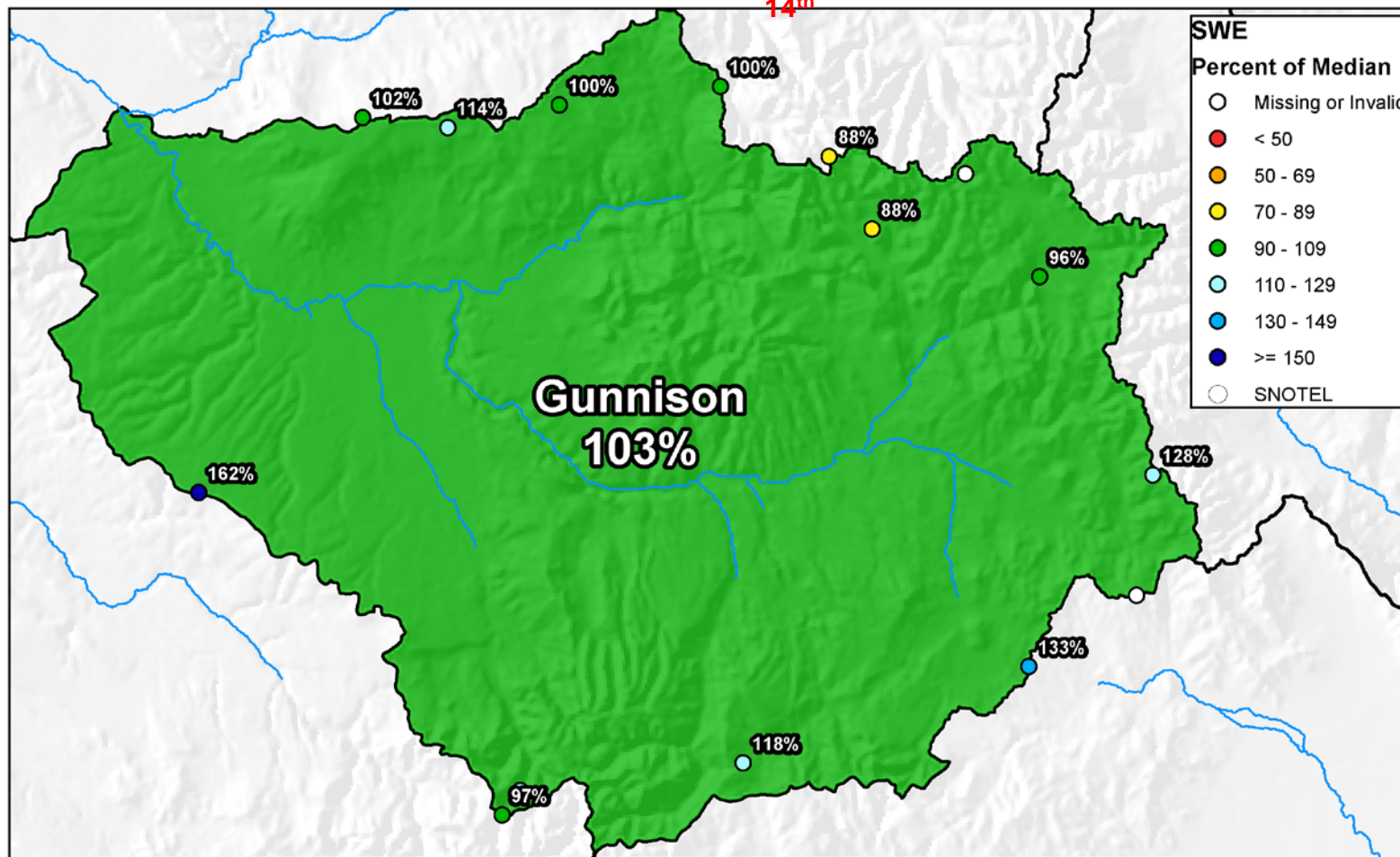
Natural Resources  
Conservation Service



## Gunnison River Basin Snow Water Equivalent (SWE) Summary

Current as of Jan 19, 2016

14<sup>th</sup>

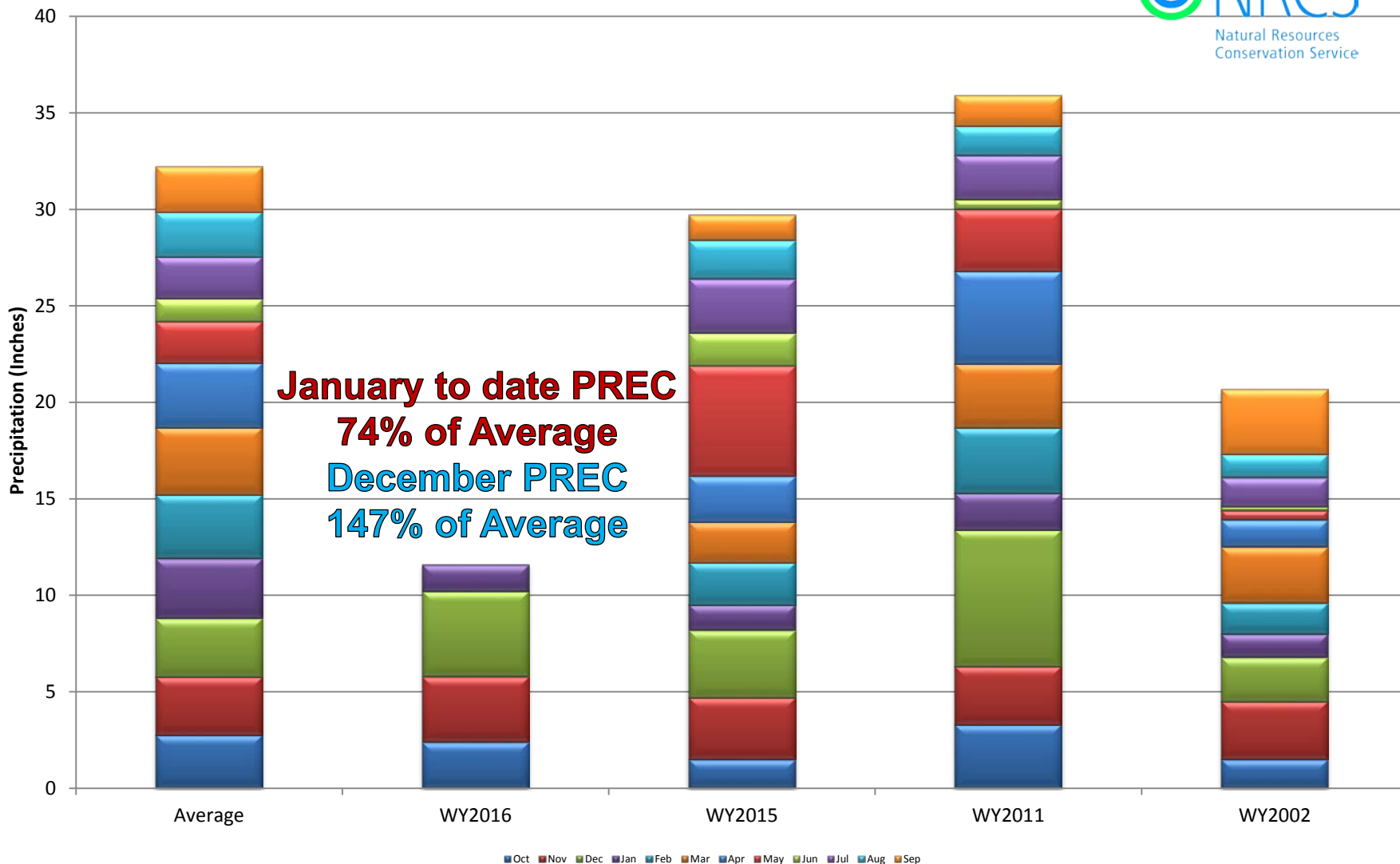


0 5 10 20 30 40 Miles



## Gunnison River Basin High/Low Monthly Precipitation Summary

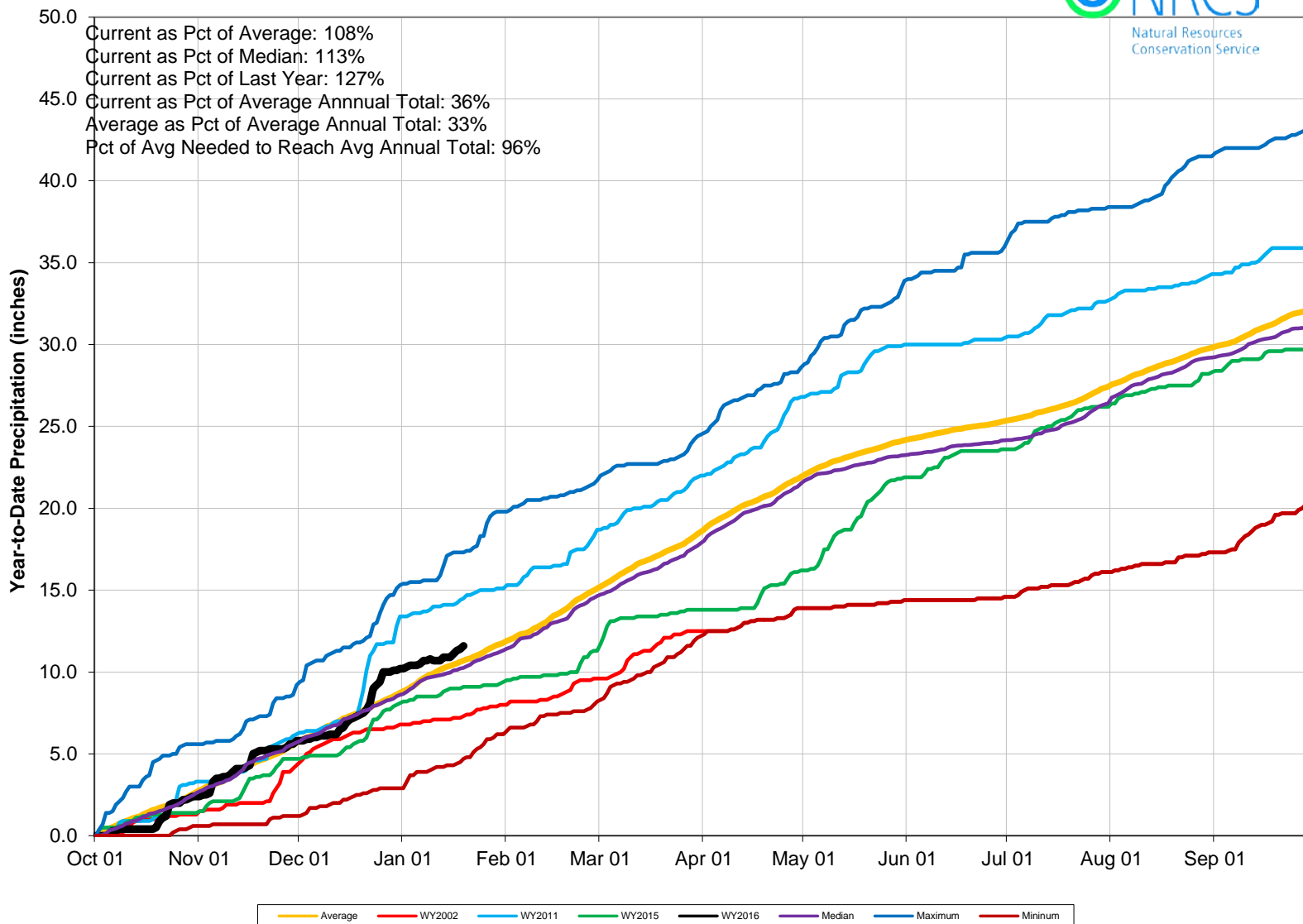
*Based on Provisional SNOTEL data as of Jan 19, 2016*

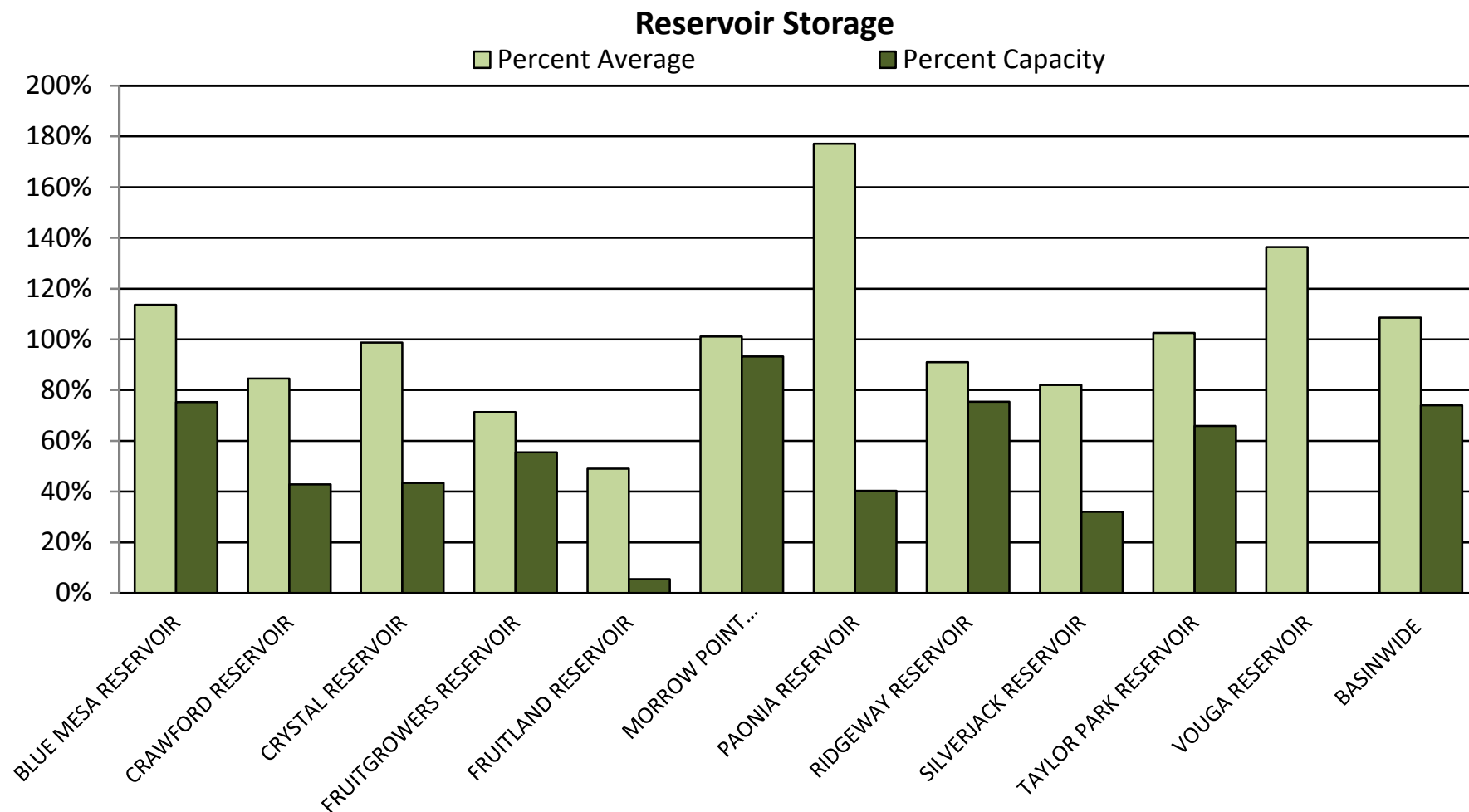




## Gunnison River Basin High/Low Year-to-Date Precipitation Summary

*Based on Provisional SNOTEL data as of Jan 19, 2016*





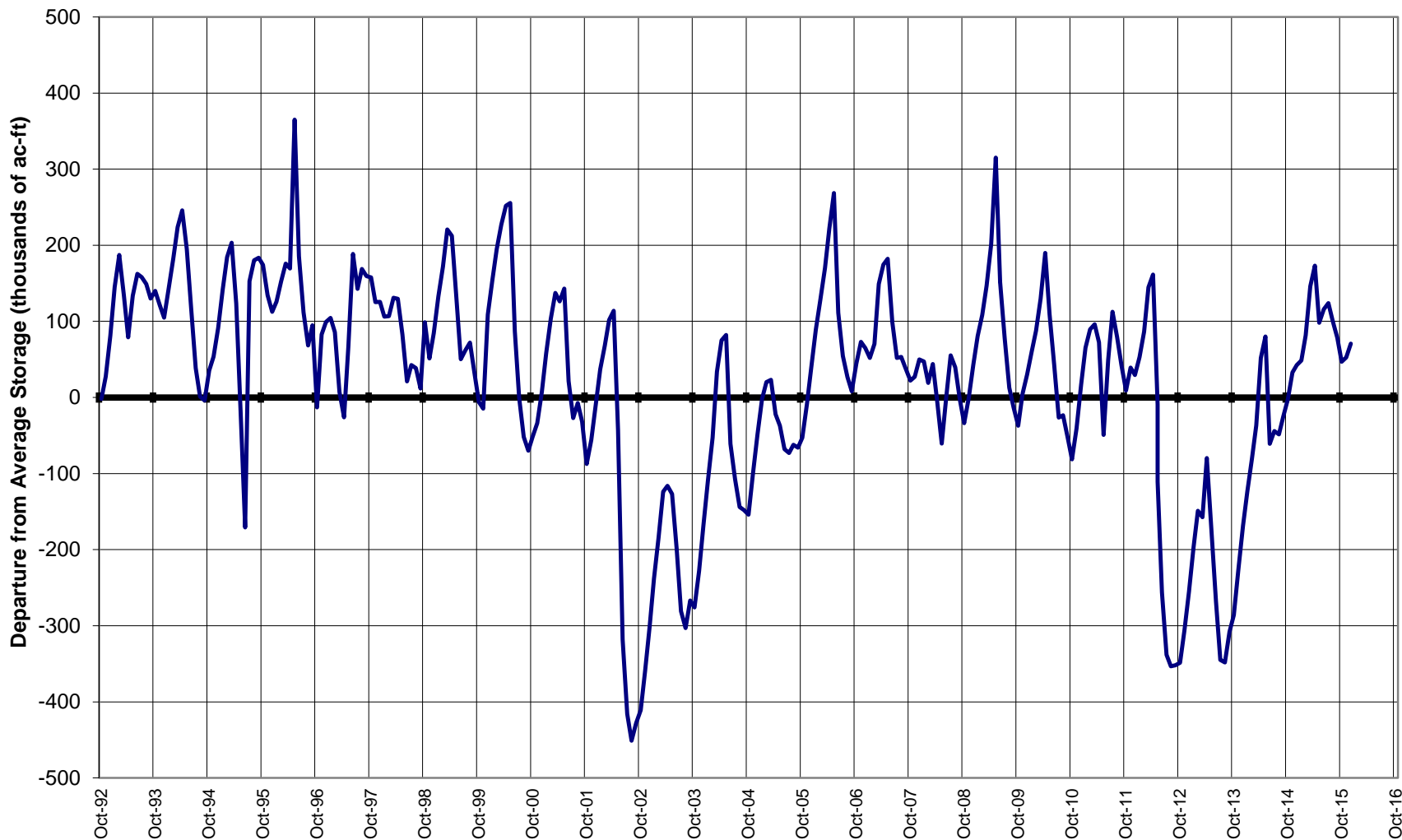




## GUNNISON RIVER BASIN

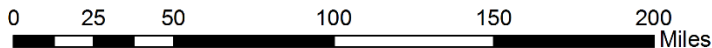
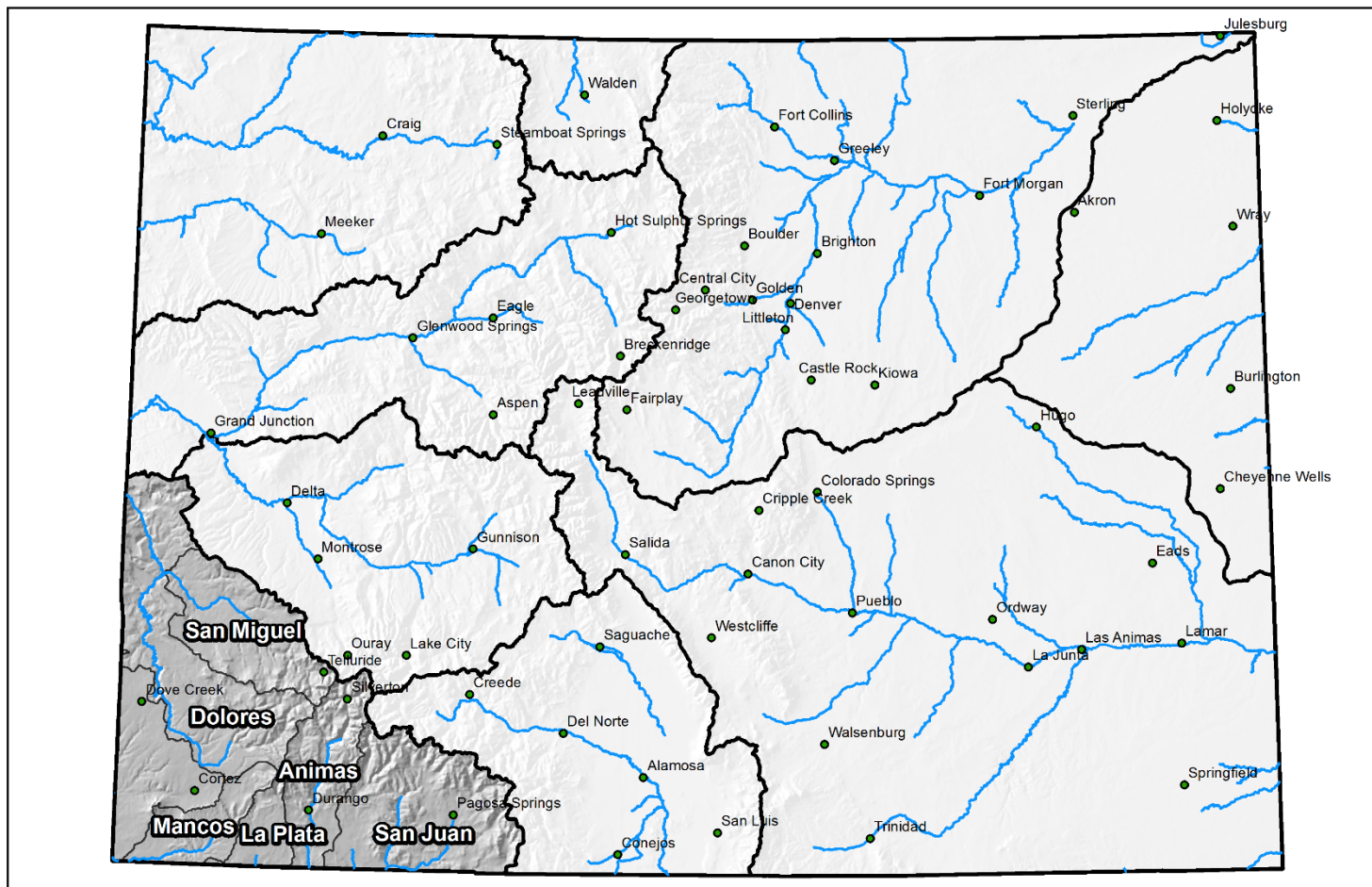
### Reservoir Storage

### Departure from Average

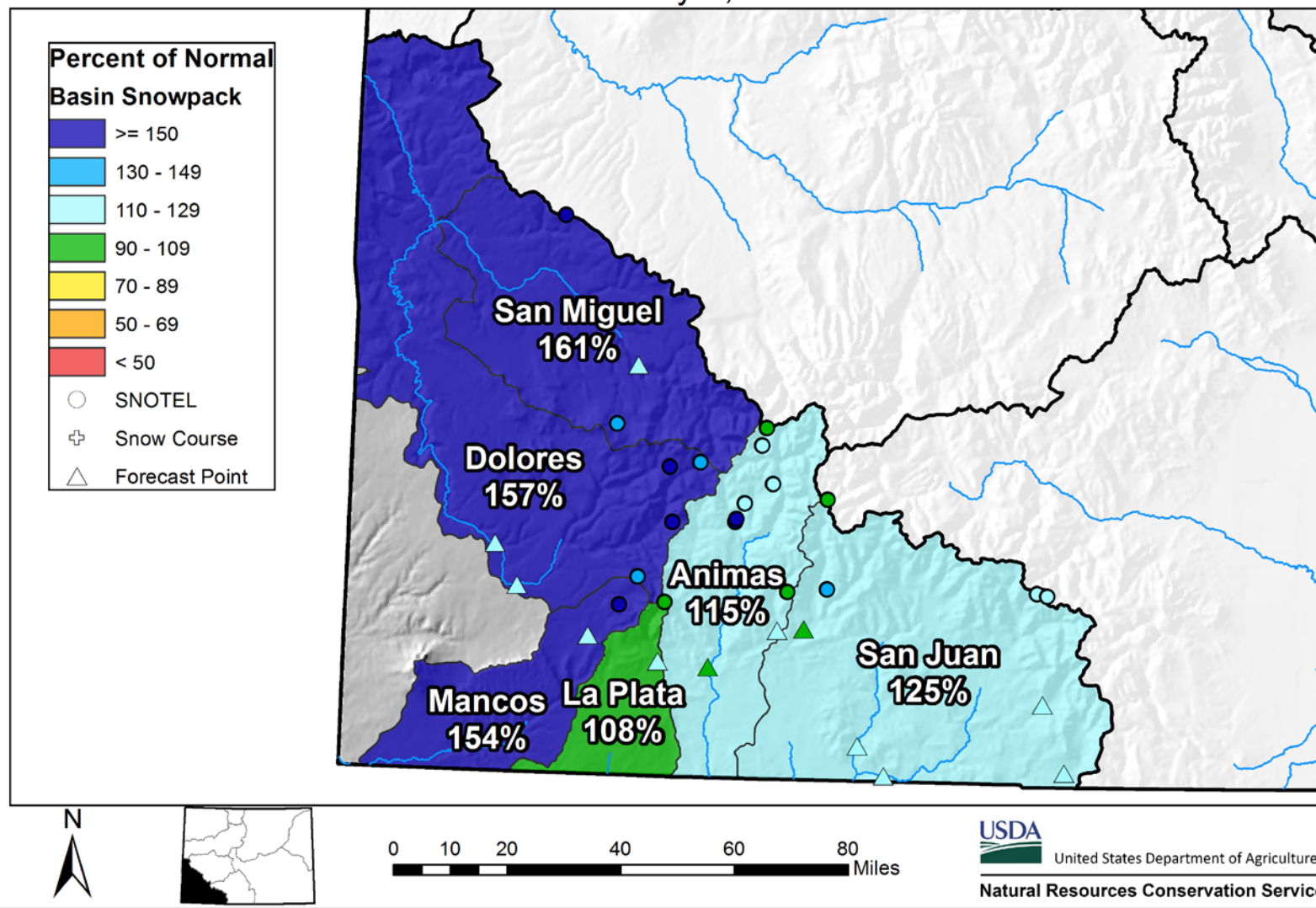


## Major Basin Summary

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



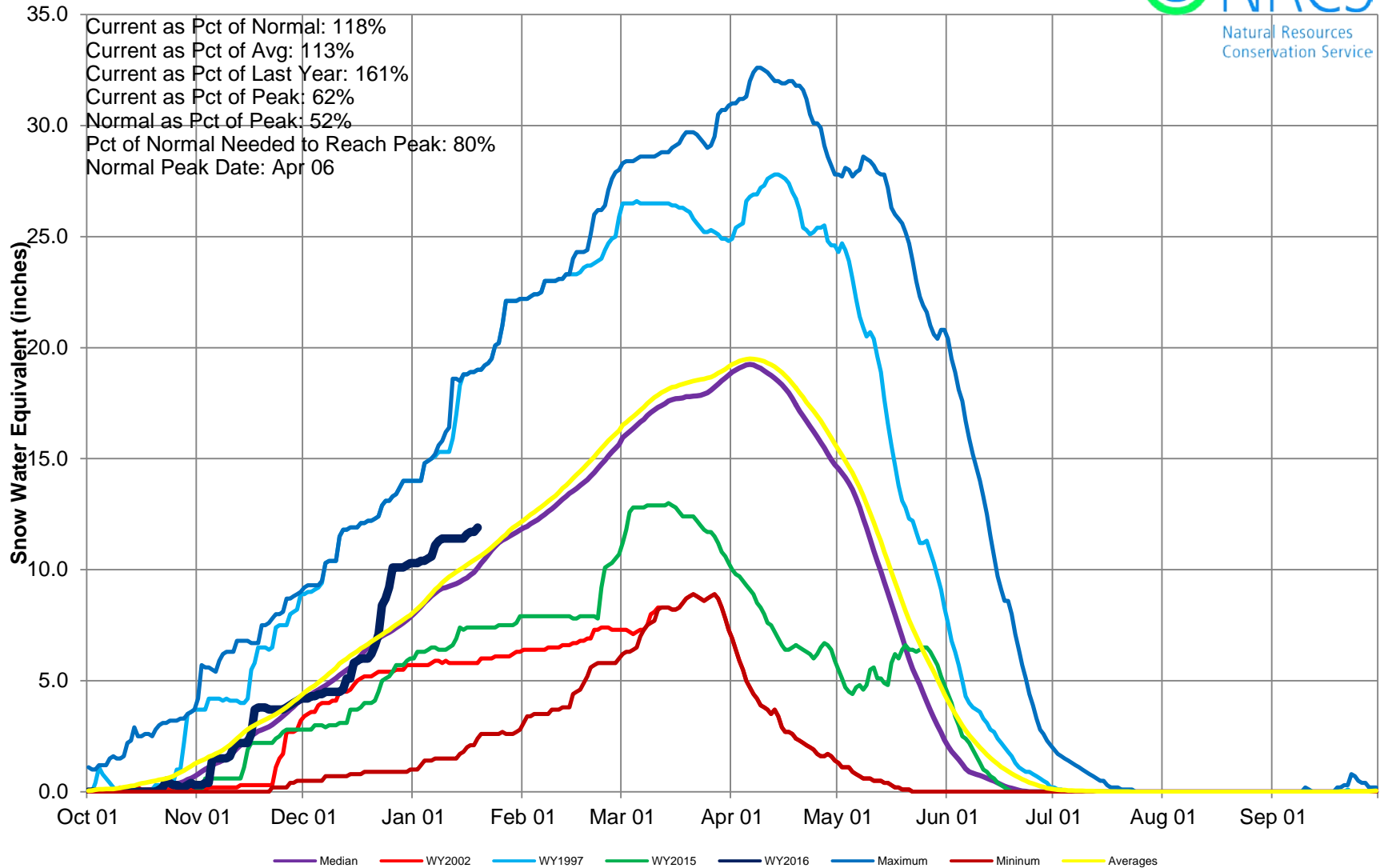
## San Miguel, Dolores, Animas, and San Juan River Basins Snowpack and Streamflow Forecasts January 1, 2016





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

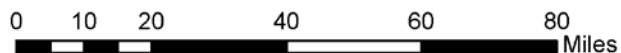
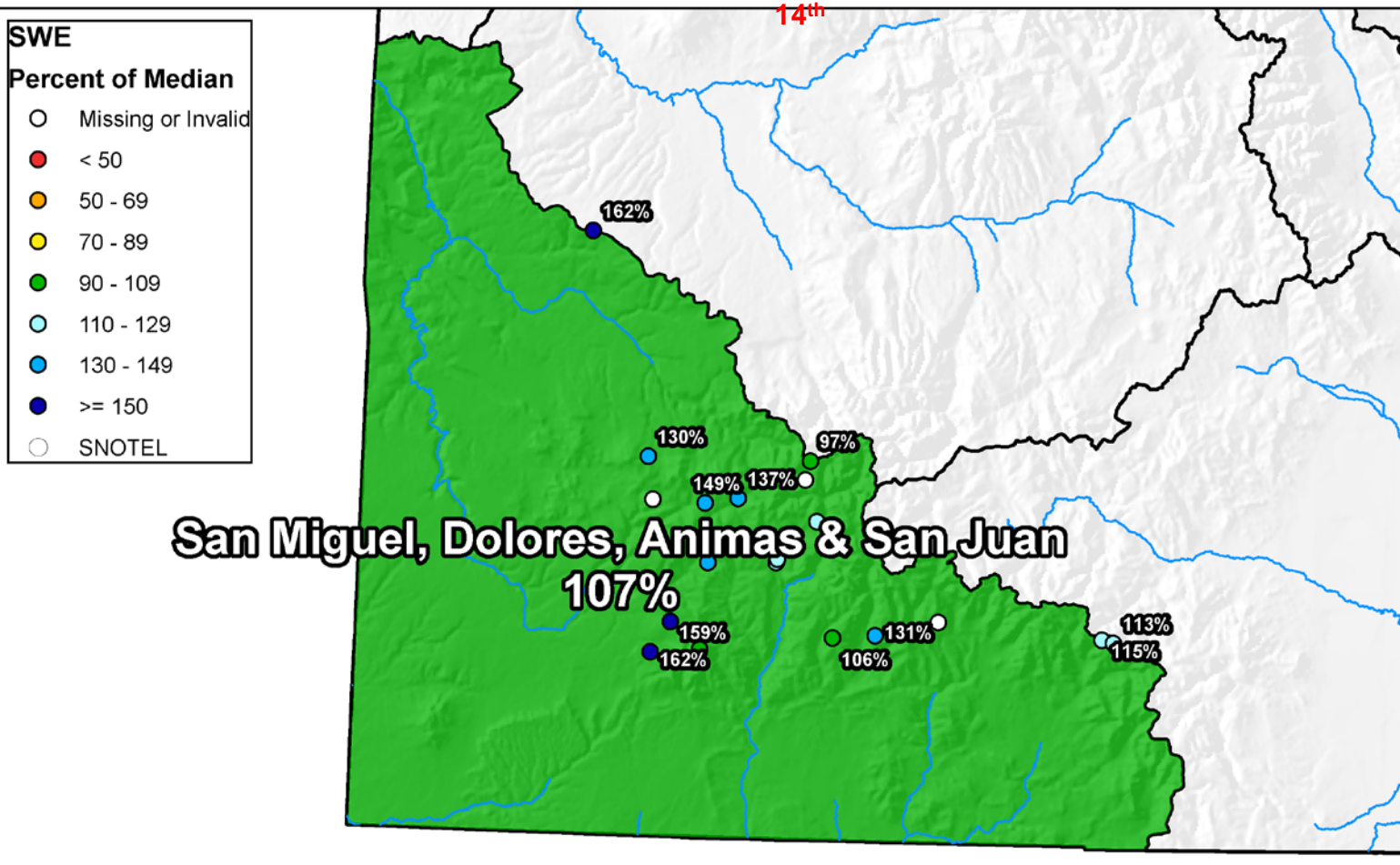
*Based on Provisional SNOTEL data as of Jan 19, 2016*





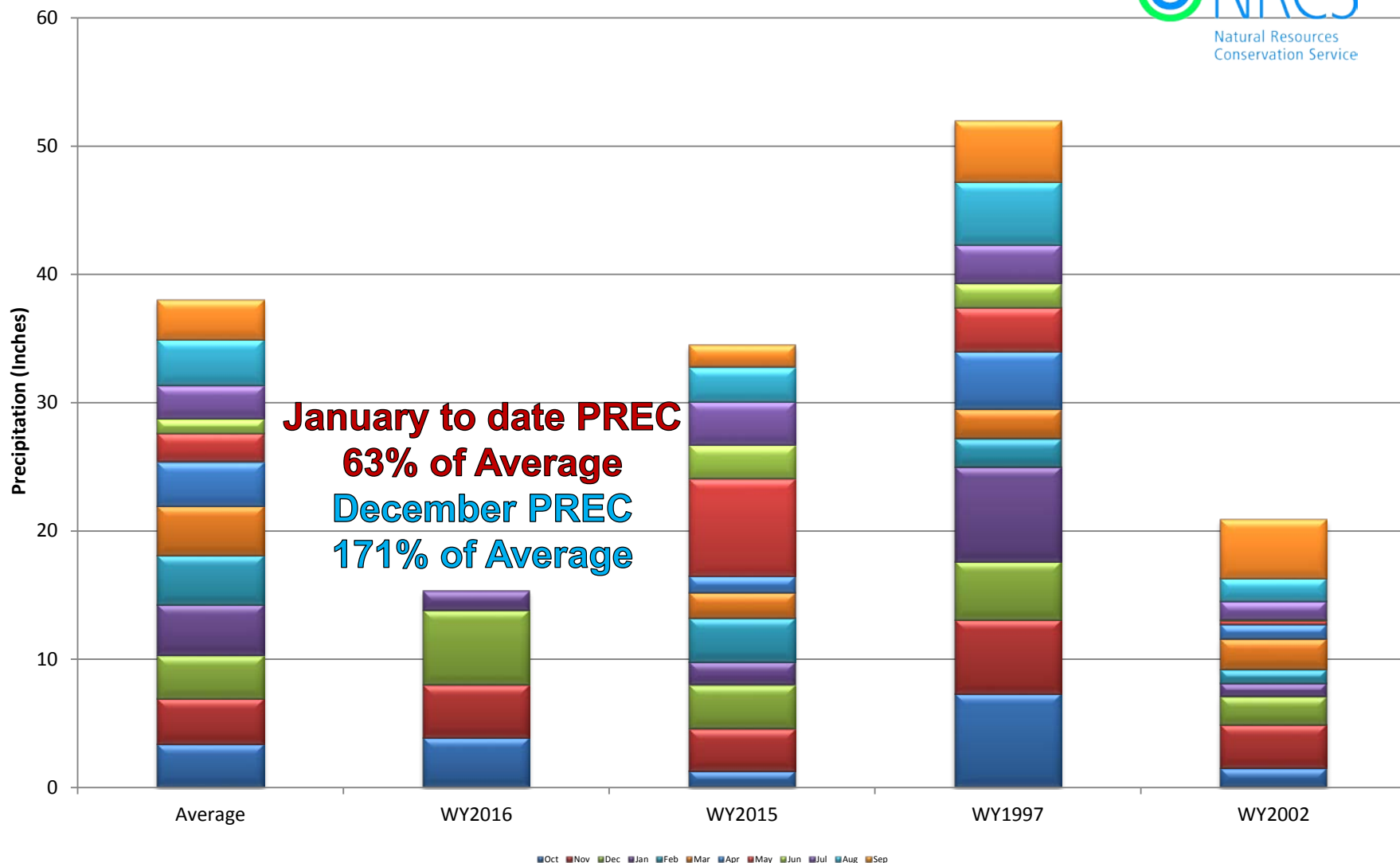
## San Miguel, Dolores, Animas, and San Juan River Basins Snow Water Equivalent (SWE) Summary

Current as of Jan 19, 2016





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



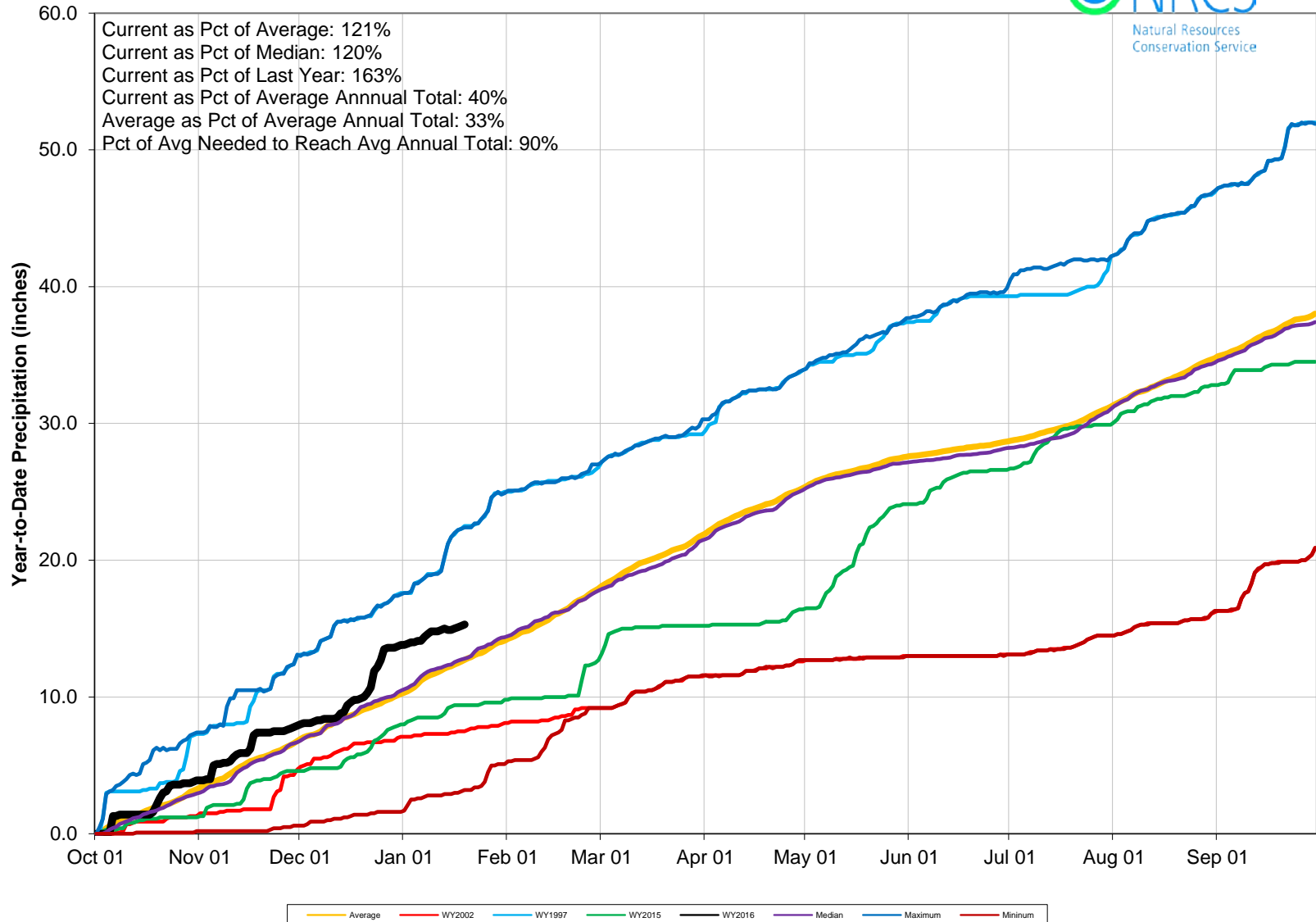


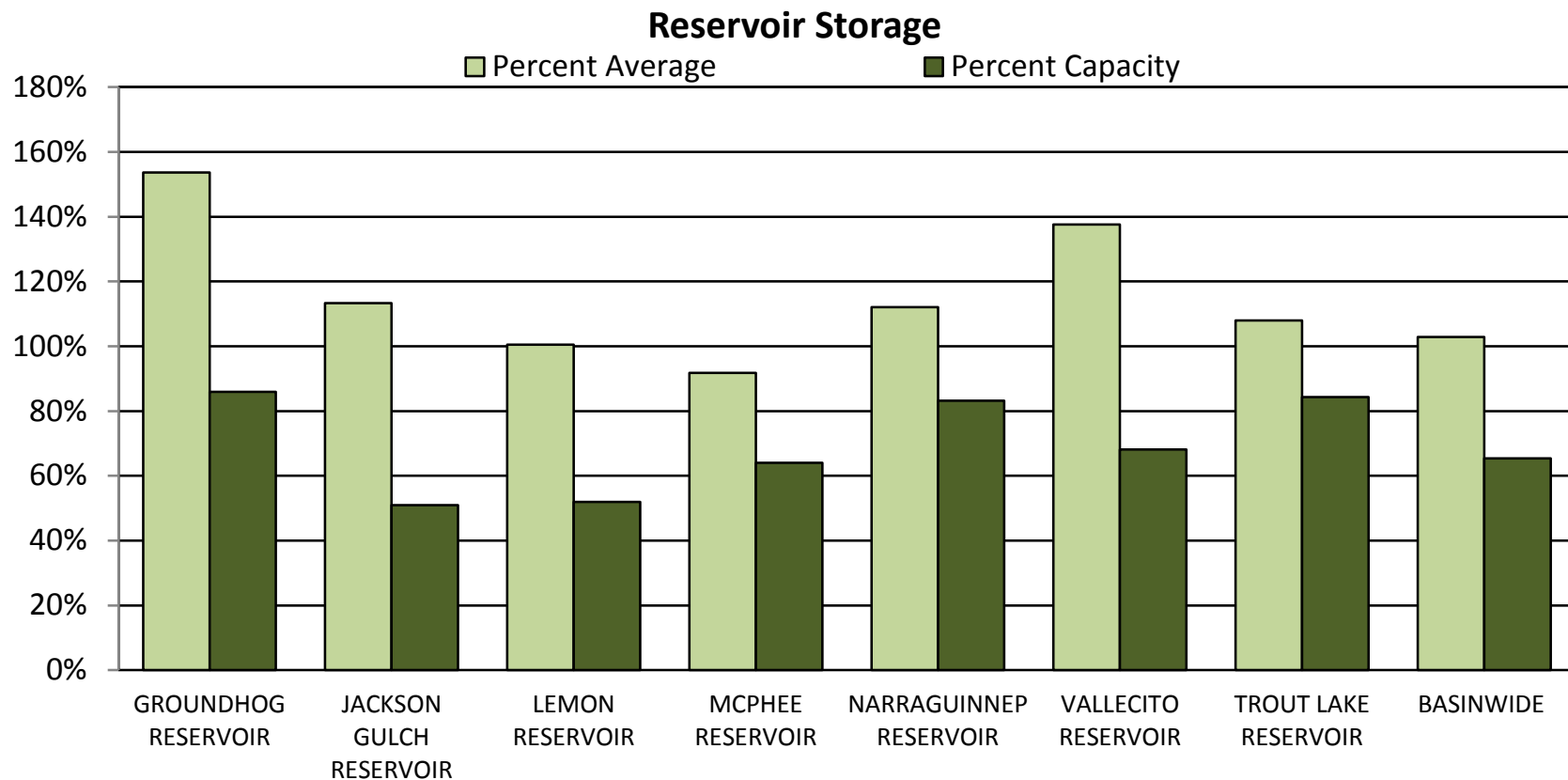
United States Department of Agriculture

# Colorado Snow Surveys

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

*Based on Provisional SNOTEL data as of Jan 19, 2016*

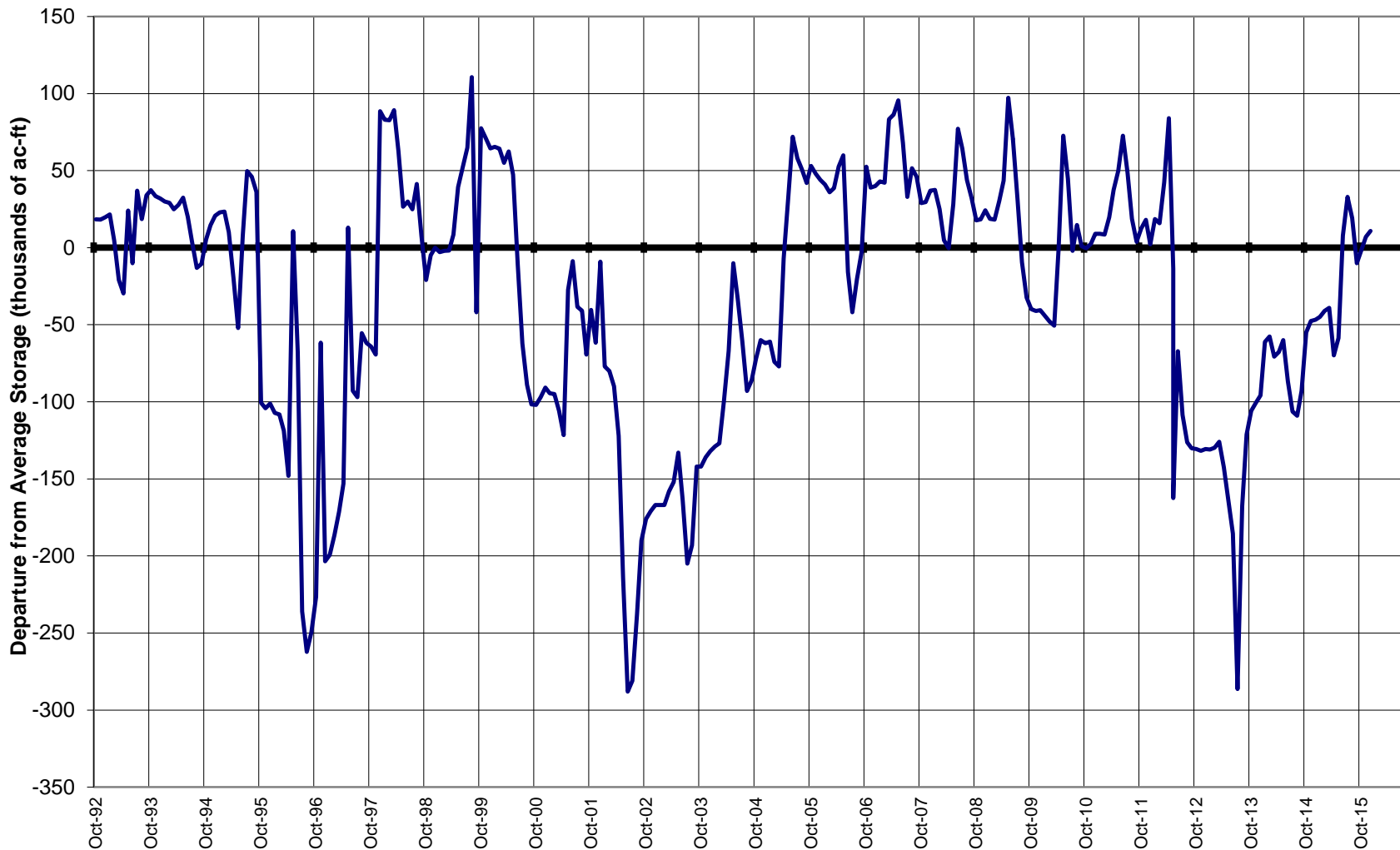






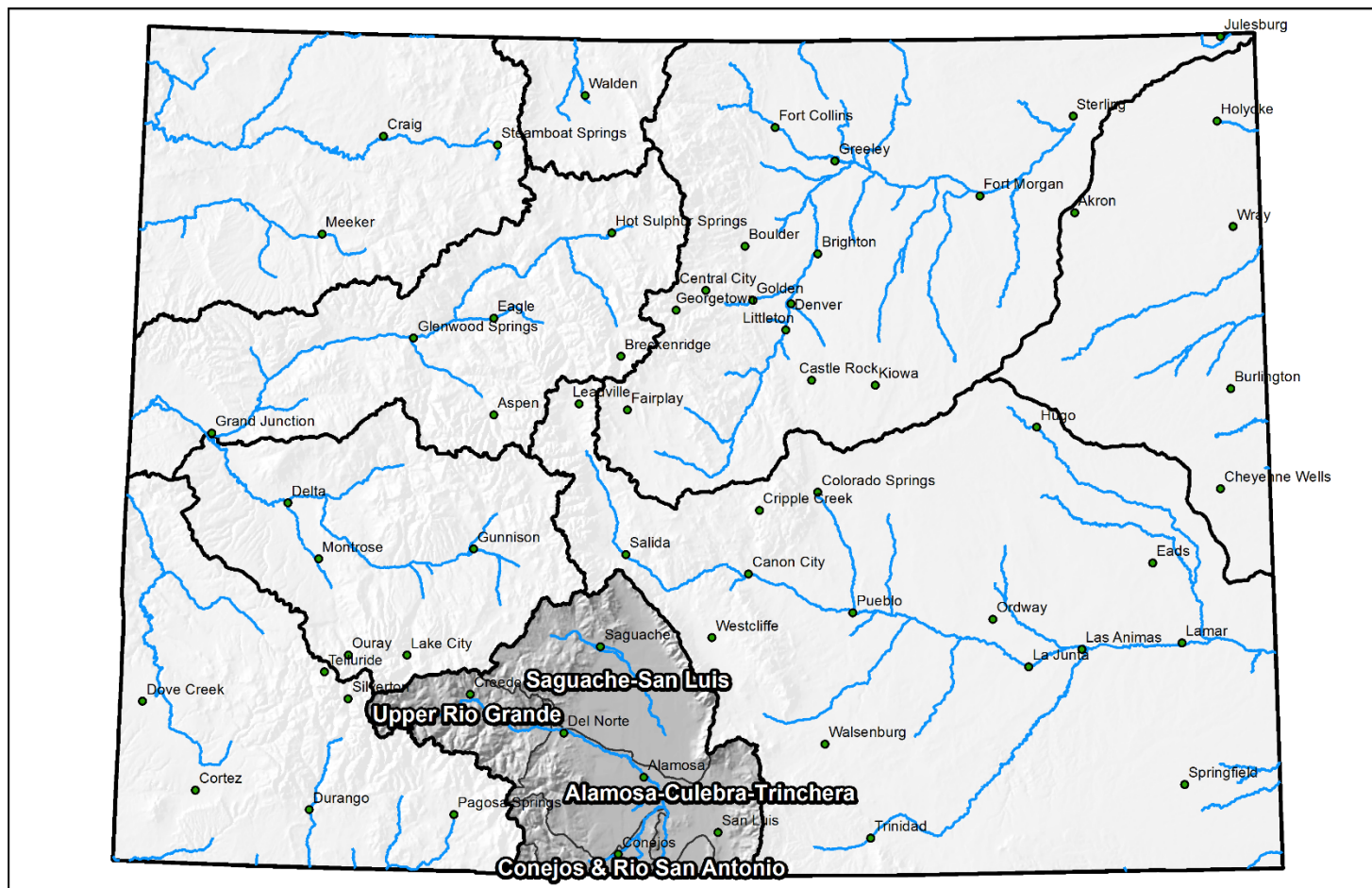
## SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

Reservoir Storage  
Departure from Average



## Major Basin Summary

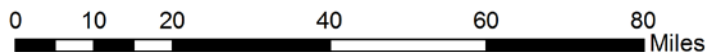
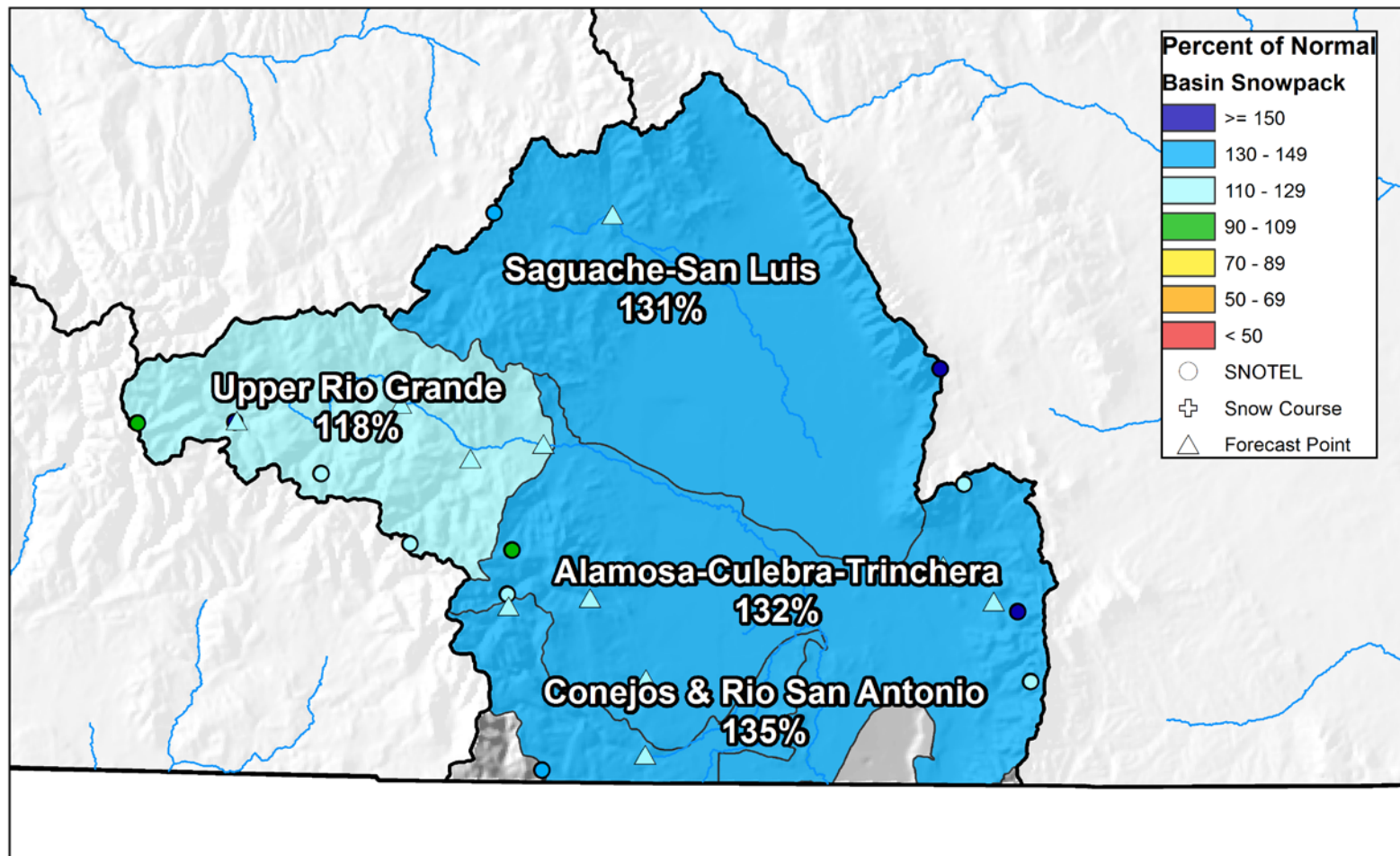
### Upper Rio Grande River Basin



0 25 50 100 150 200 Miles



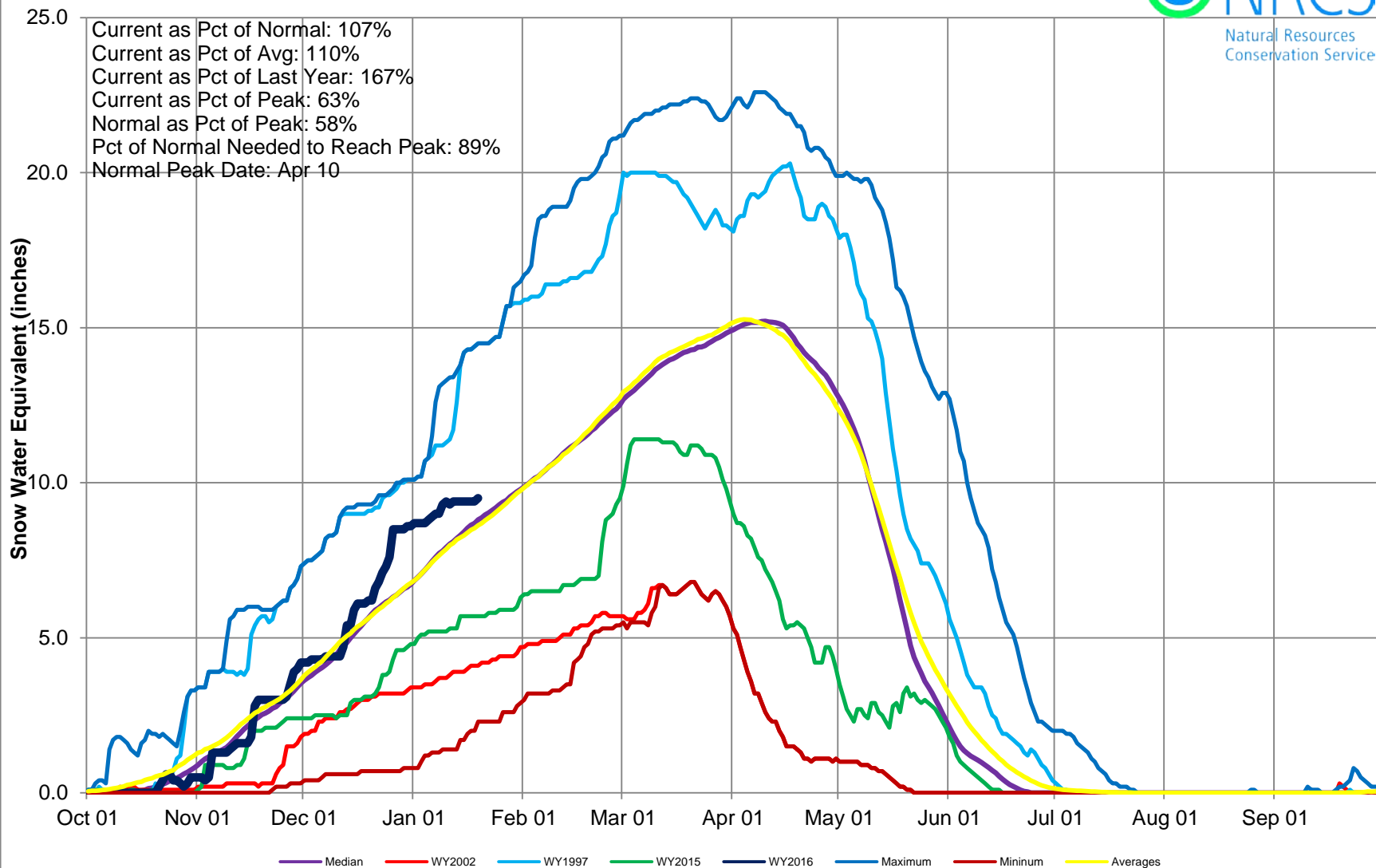
## Upper Rio Grande River Basin Snowpack and Streamflow Forecasts January 1, 2016





## Upper Rio Grande Basin High/Low Snowpack Summary

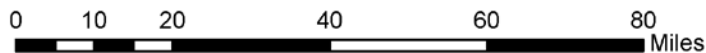
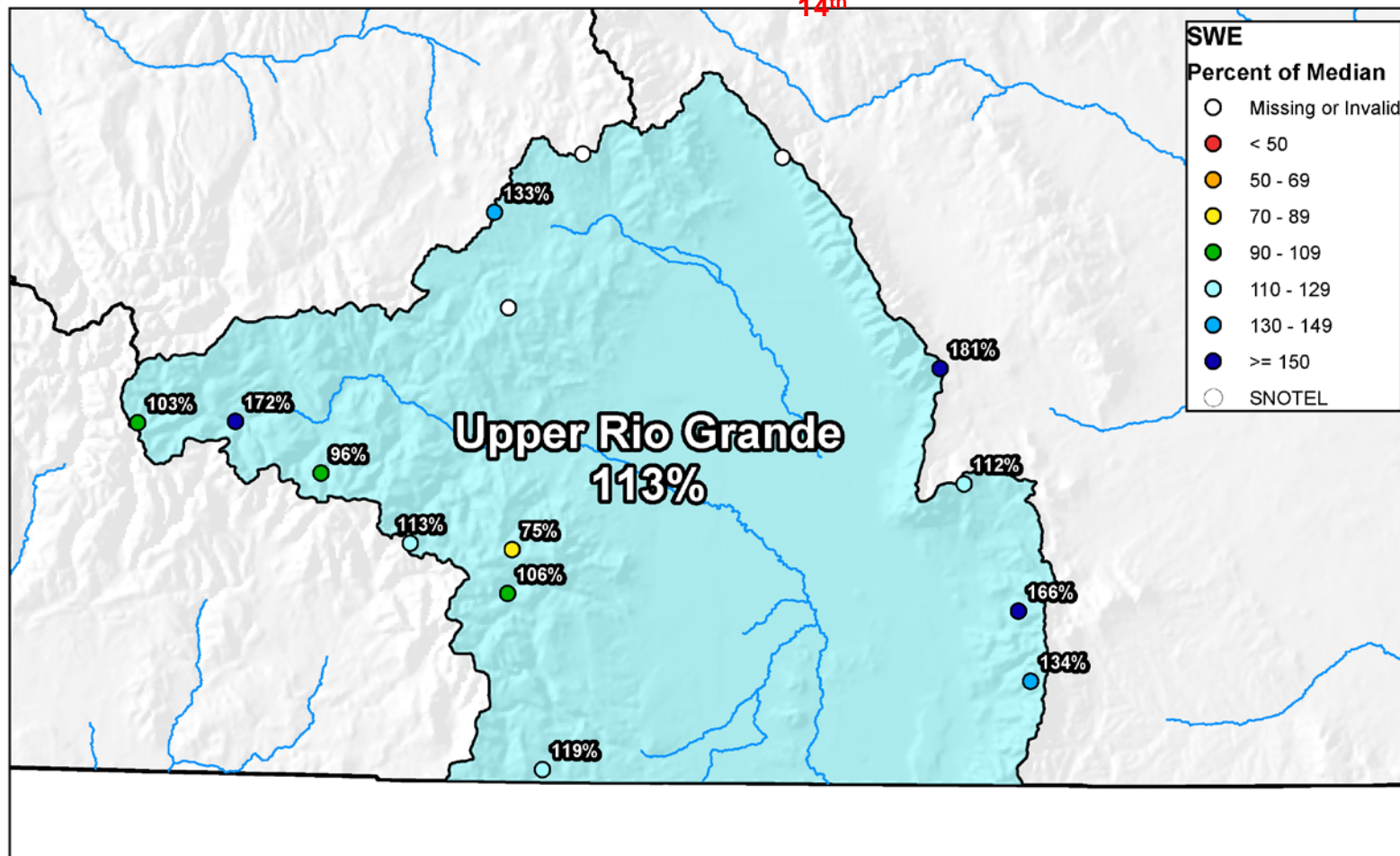
*Based on Provisional SNOTEL data as of Jan 19, 2016*



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

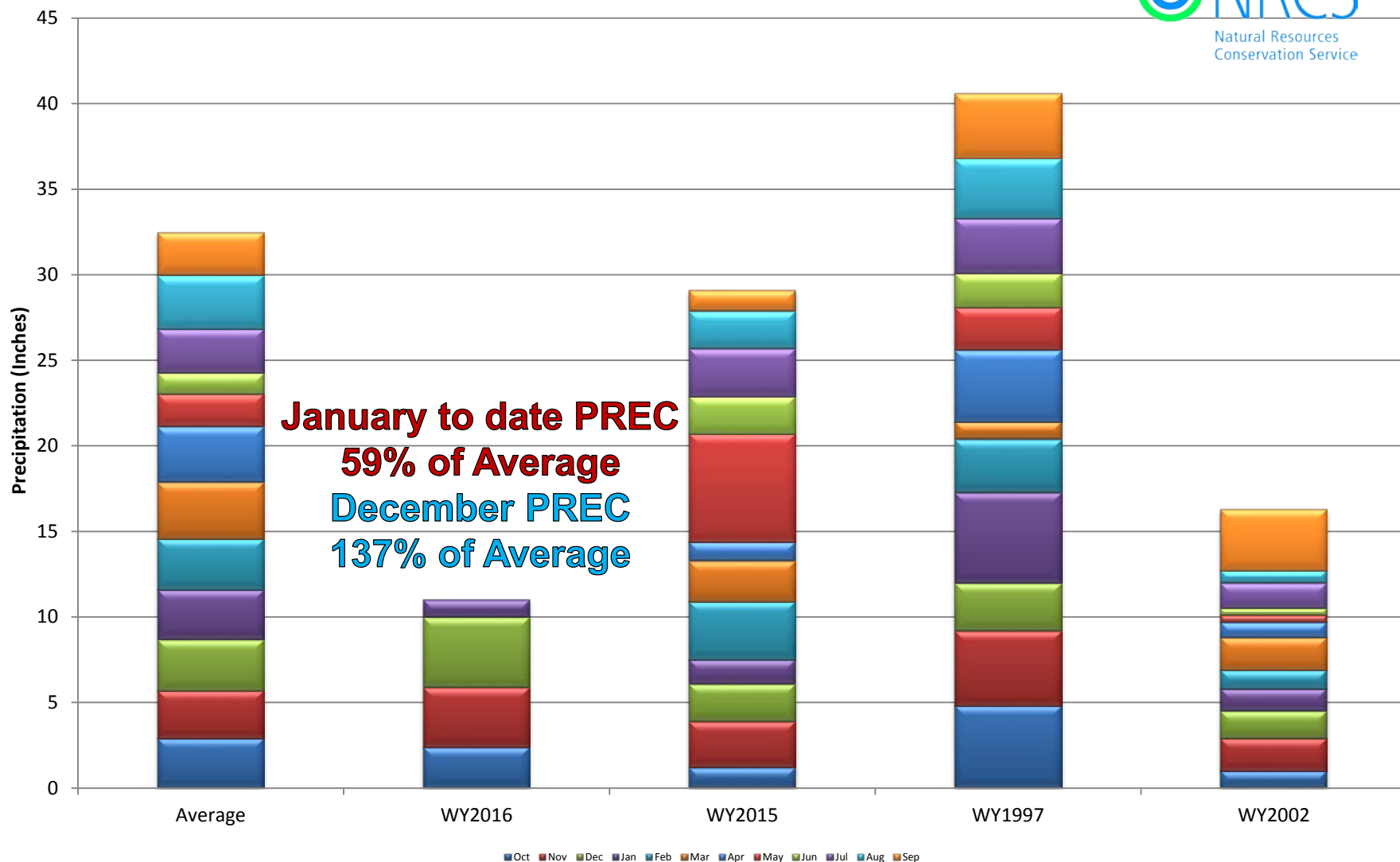
Current as of Jan 19, 2016

14th



## Upper Rio Grande Basin High/Low Monthly Precipitation Summary

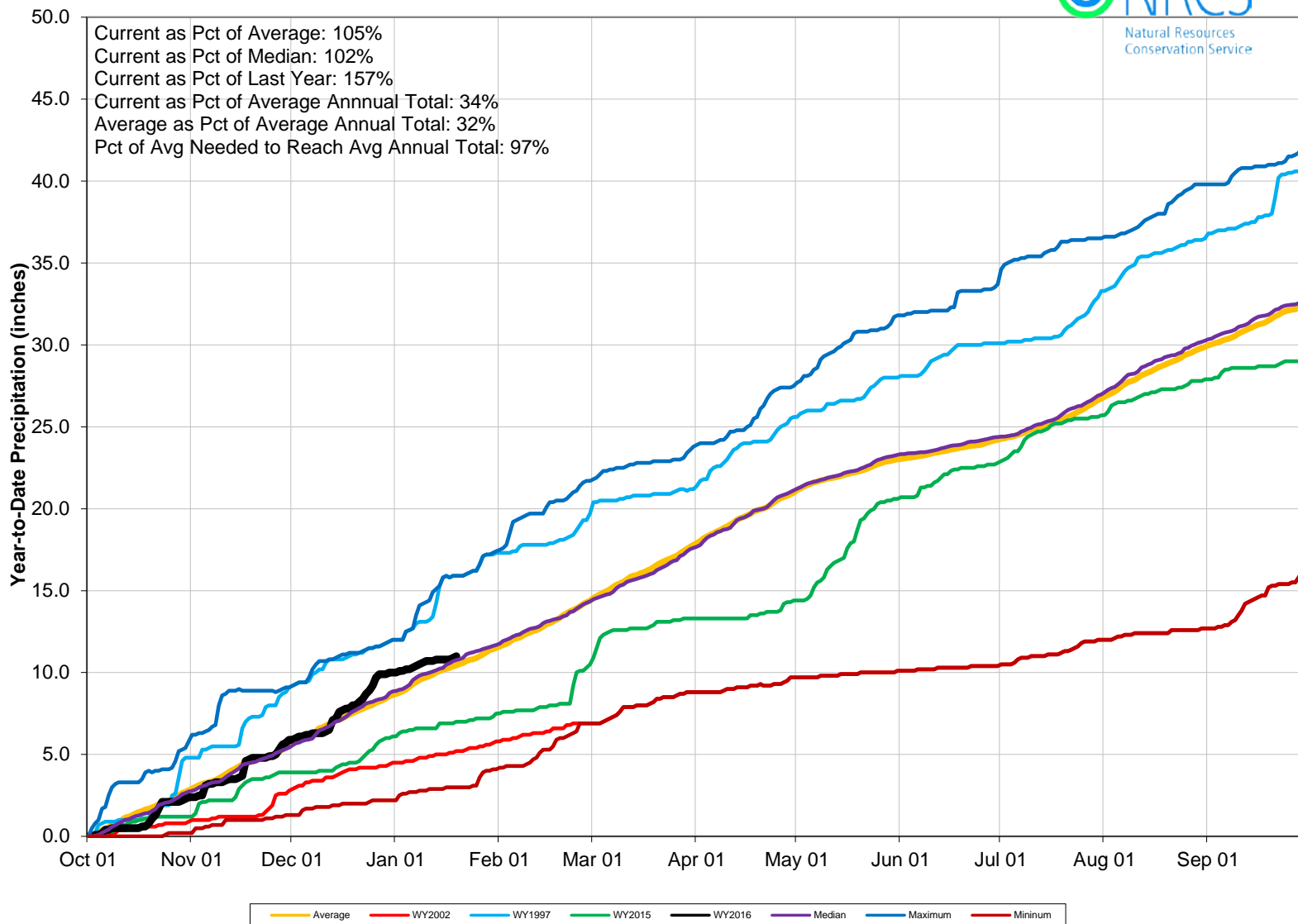
*Based on Provisional SNOTEL data as of Jan 19, 2016*



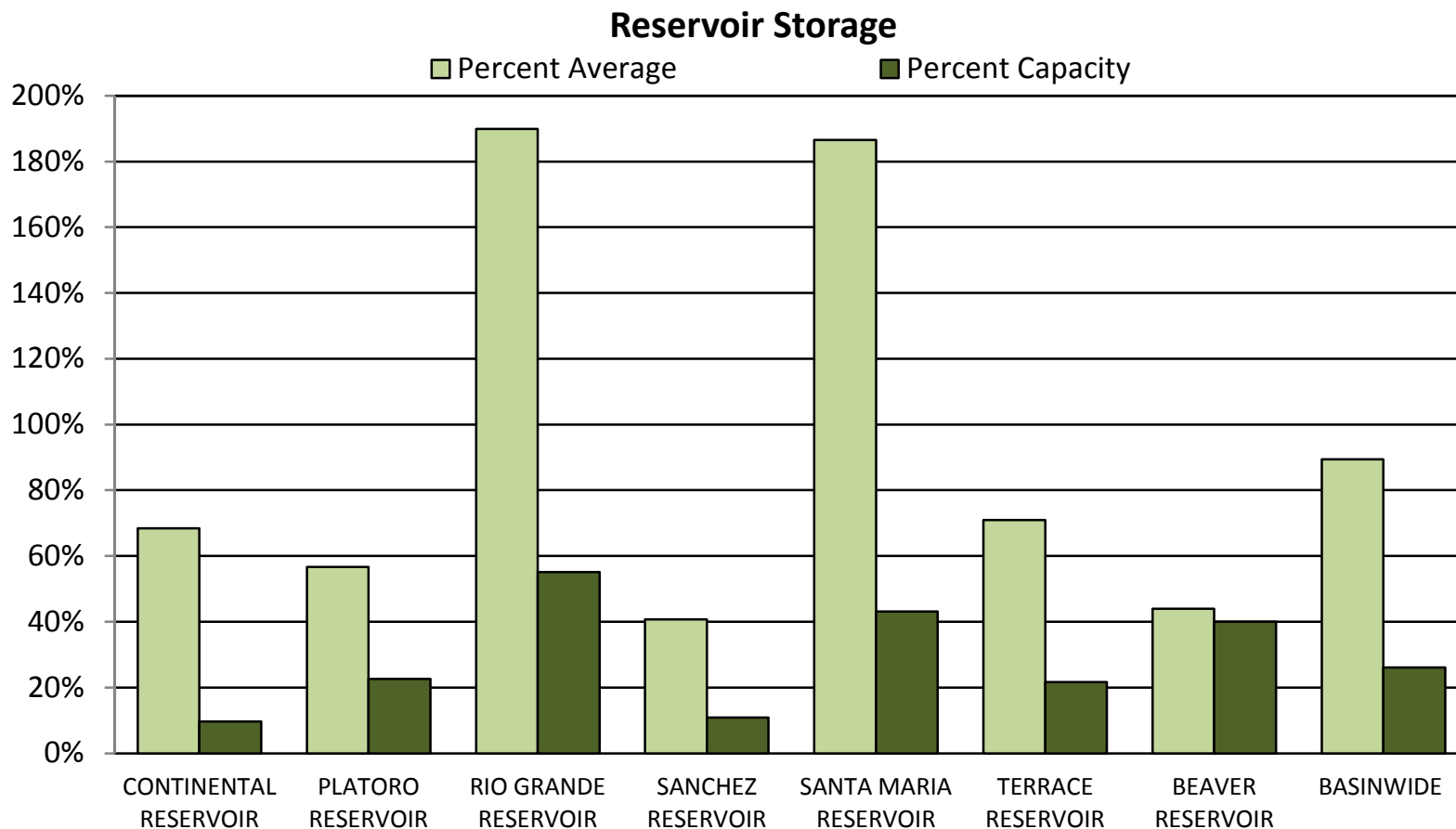


## Upper Rio Grande Basin High/Low Year-to-Date Precipitation Summary

*Based on Provisional SNOTEL data as of Jan 19, 2016*

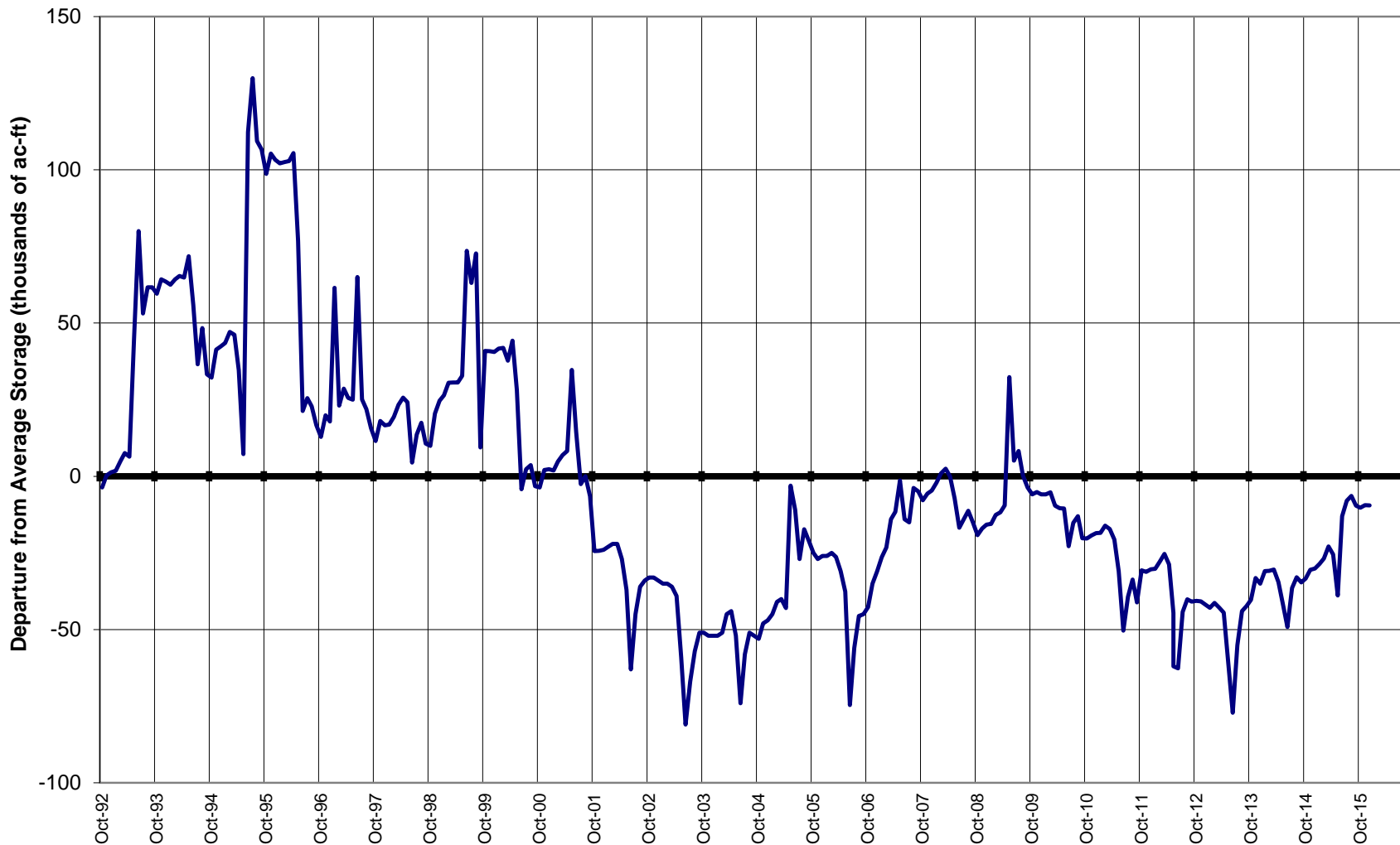






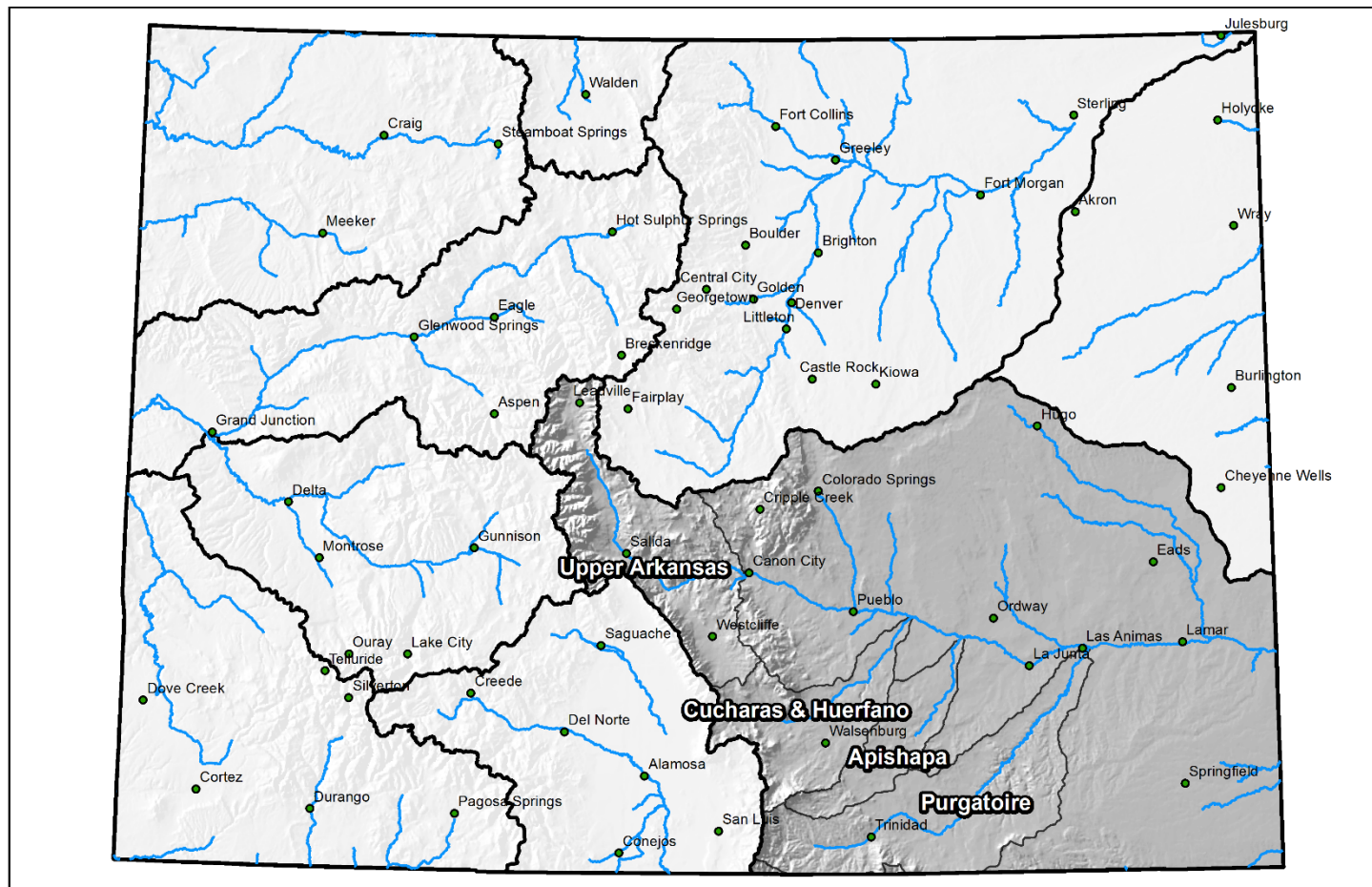


## UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



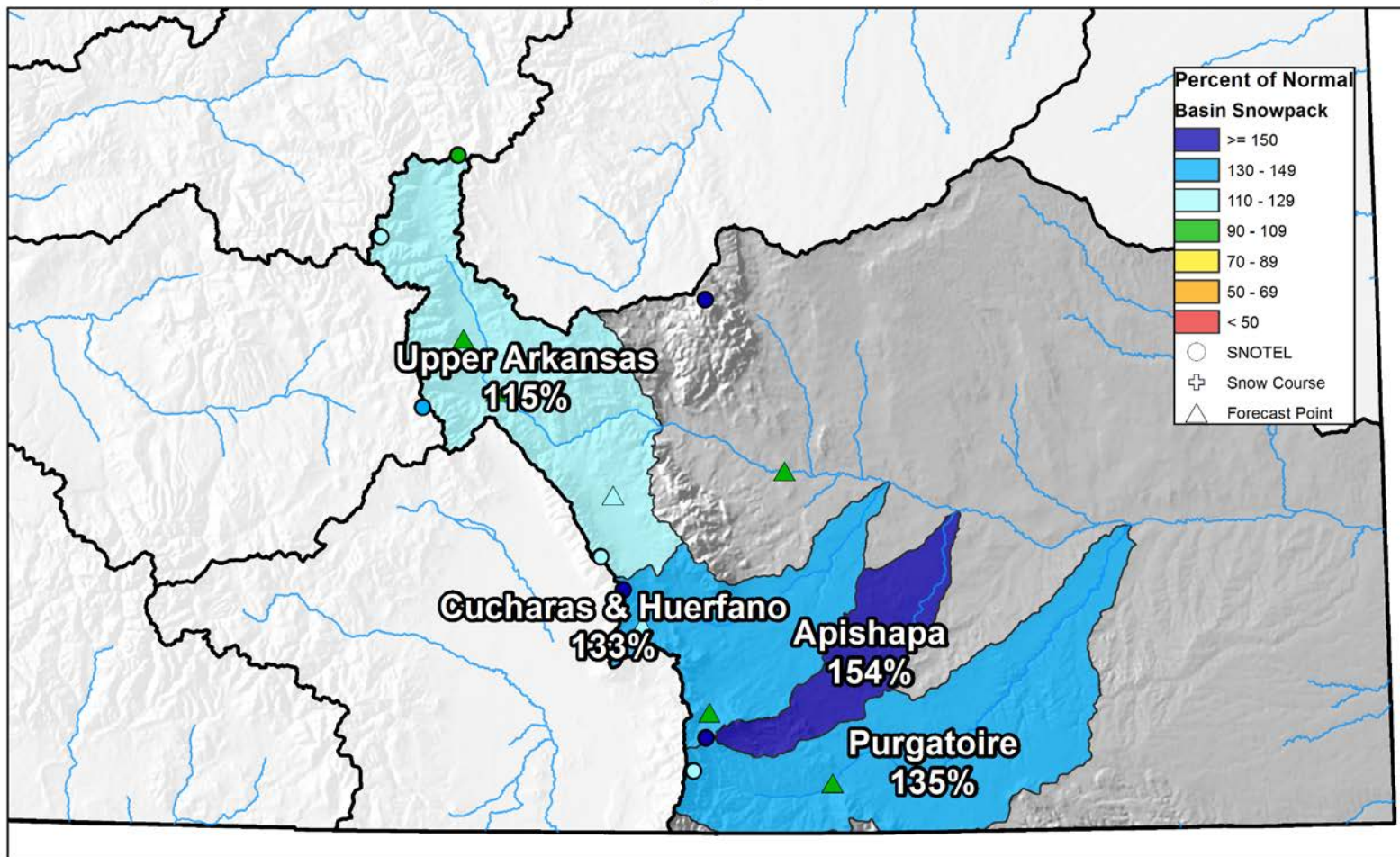
## Major Basin Summary

### Arkansas River Basin



0 25 50 100 150 200 Miles

## Arkansas River Basin Snowpack and Streamflow Forecasts January 1, 2016

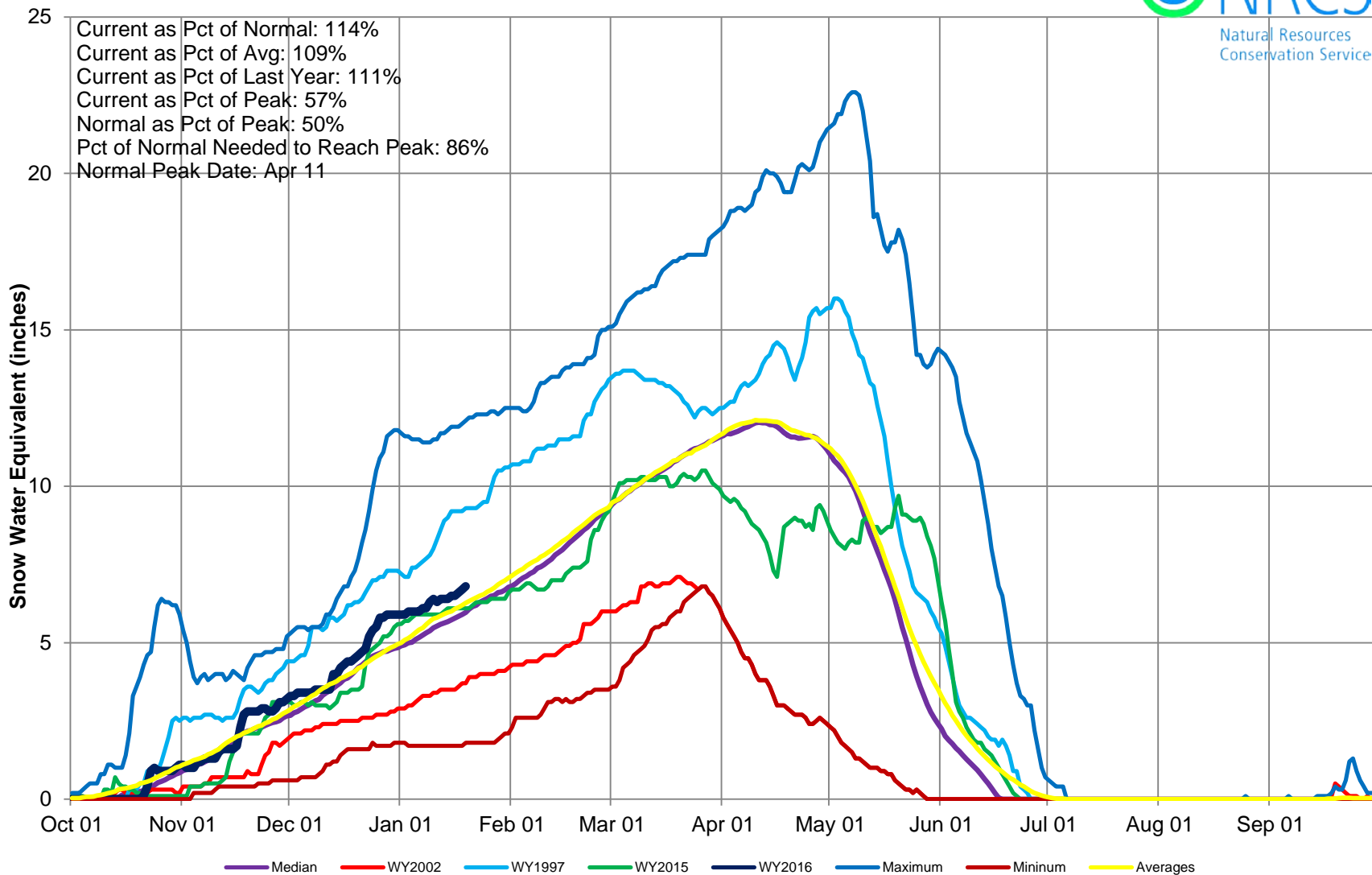


0 10 20 40 60 80 Miles



## Arkansas River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jan 19, 2016*

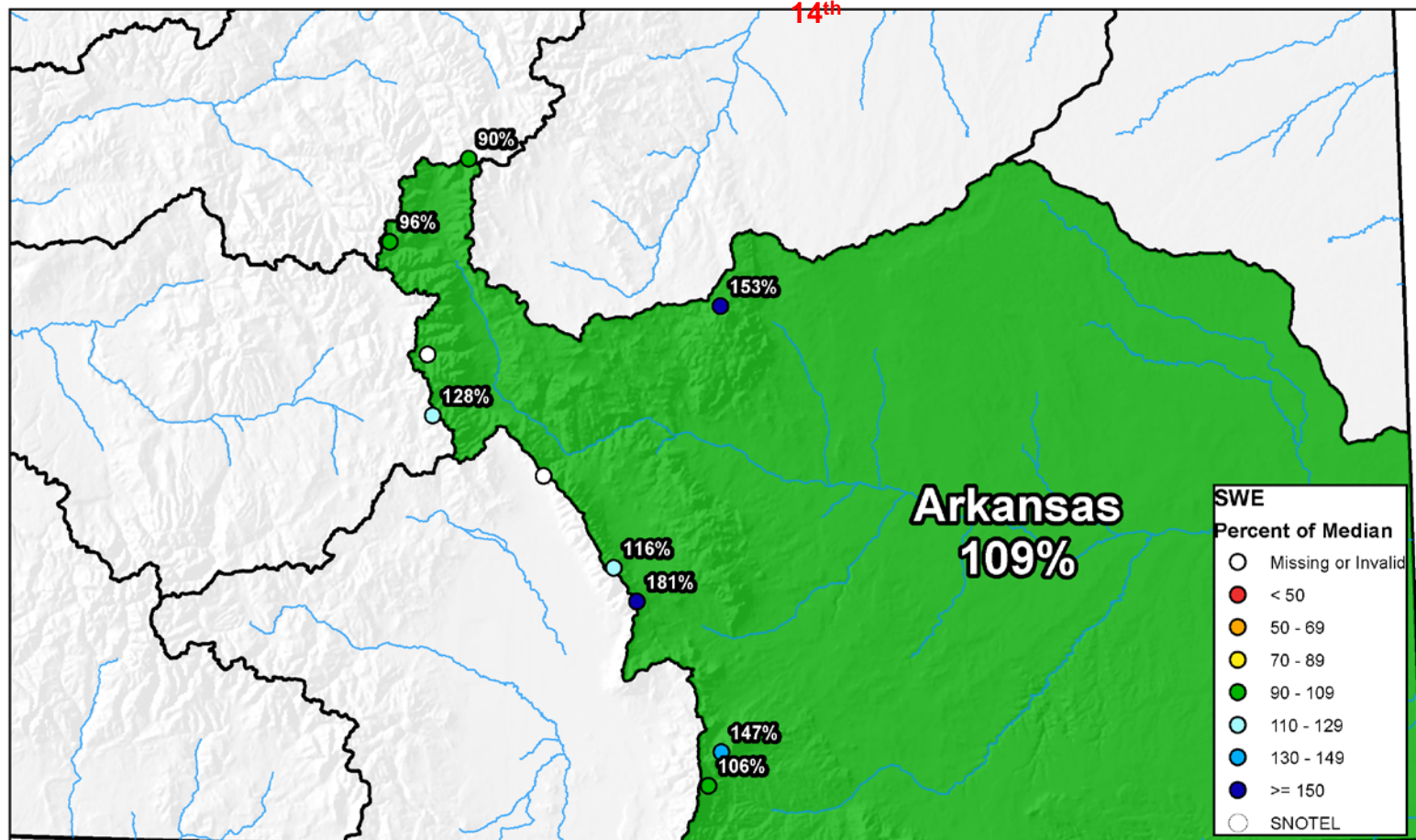




## Arkansas River Basin Snow Water Equivalent (SWE) Summary

Current as of Jan 19, 2016

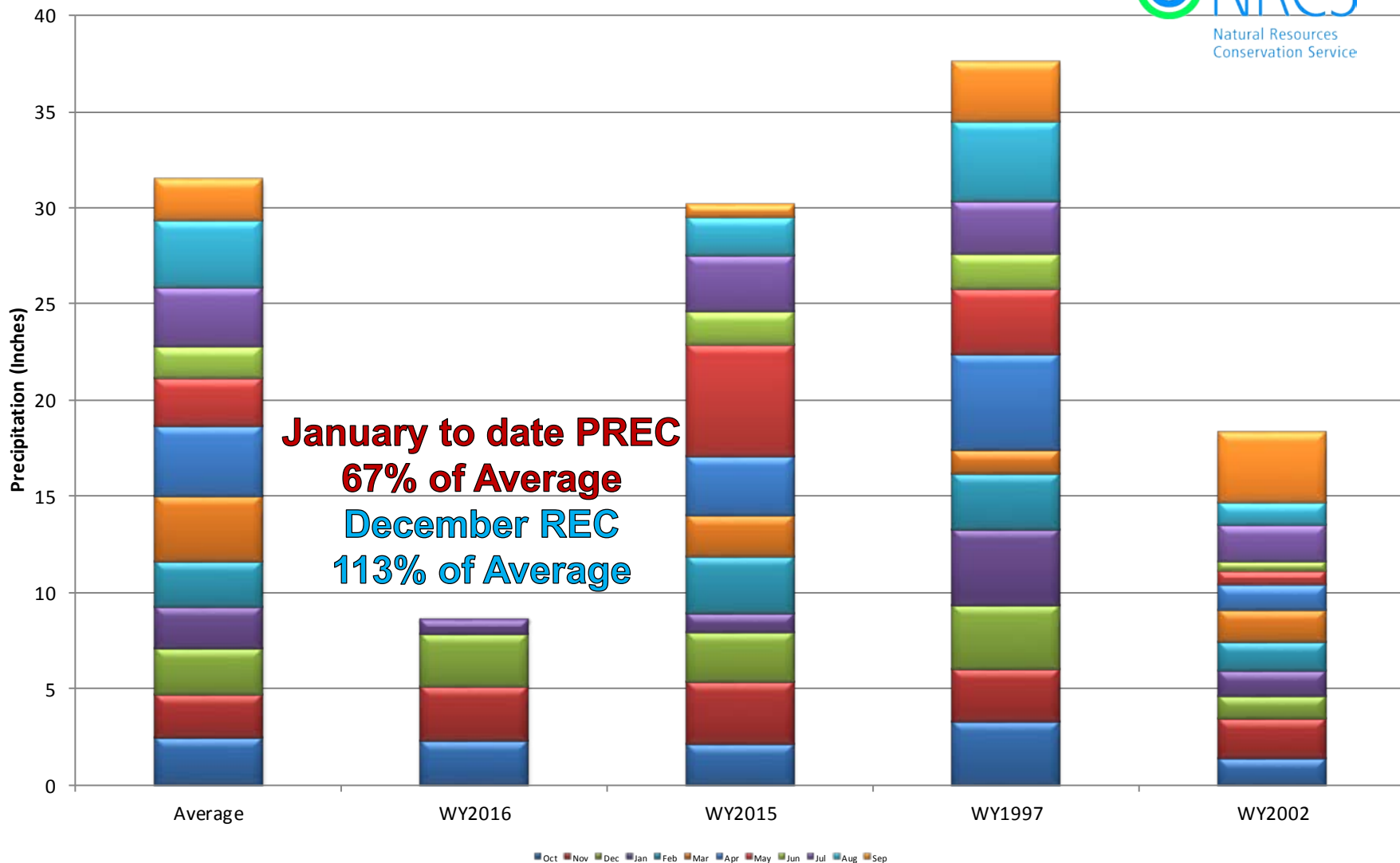
14<sup>th</sup>



0 10 20 40 60 80 Miles

## Arkansas River Basin High/Low Monthly Precipitation Summary

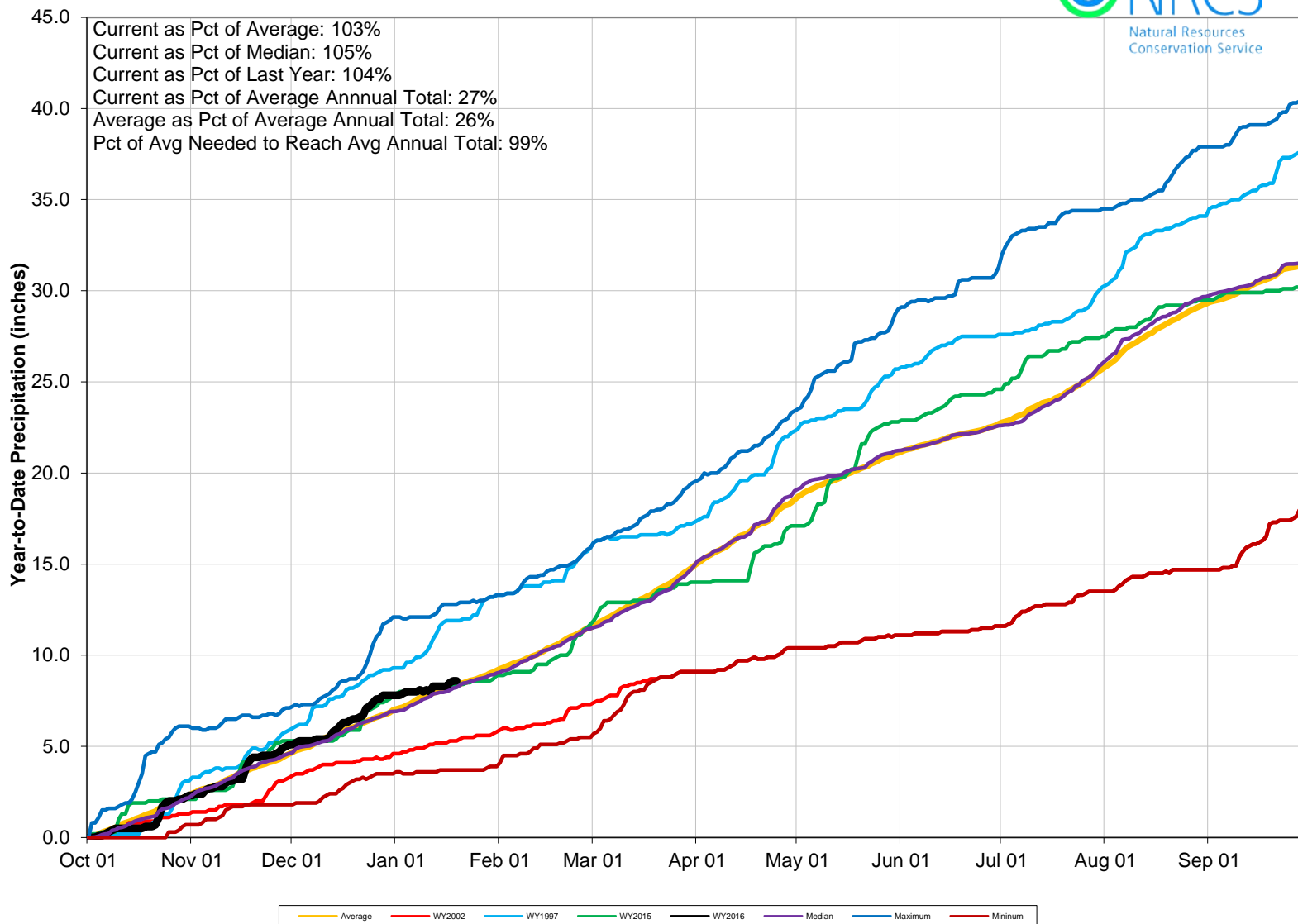
*Based on Provisional SNOTEL data as of Jan 19, 2016*

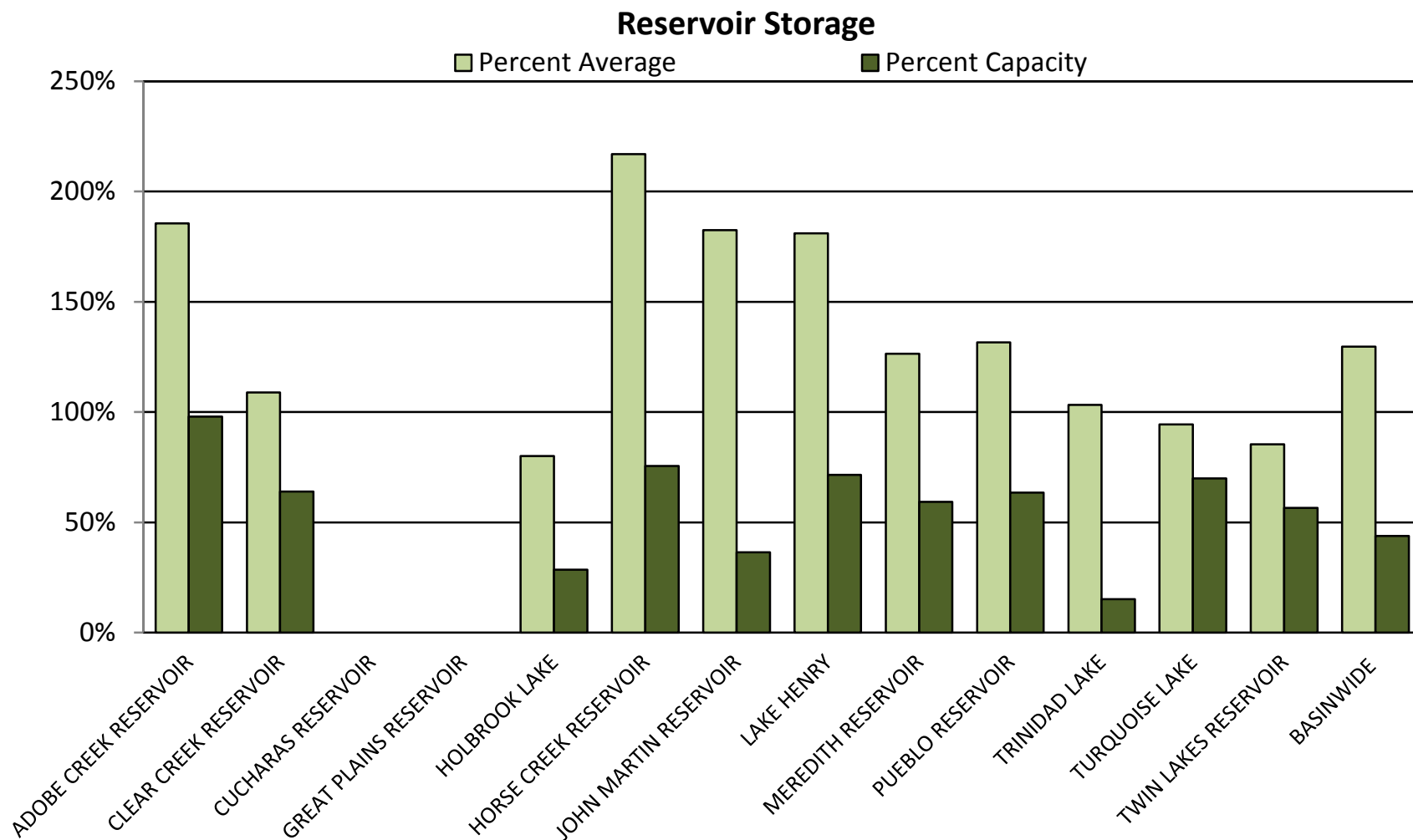




## Arkansas River Basin High/Low Year-to-Date Precipitation Summary

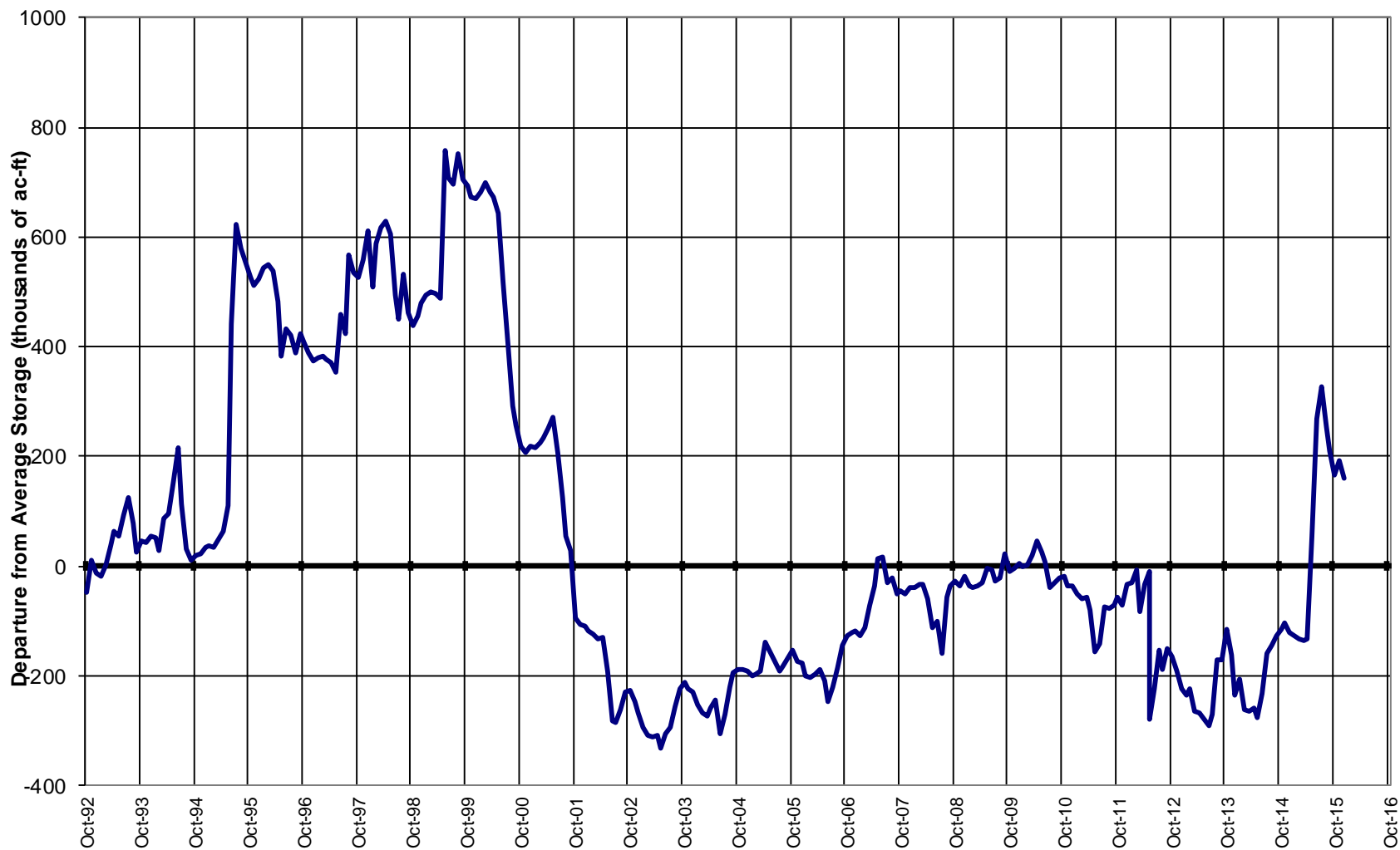
*Based on Provisional SNOTEL data as of Jan 19, 2016*







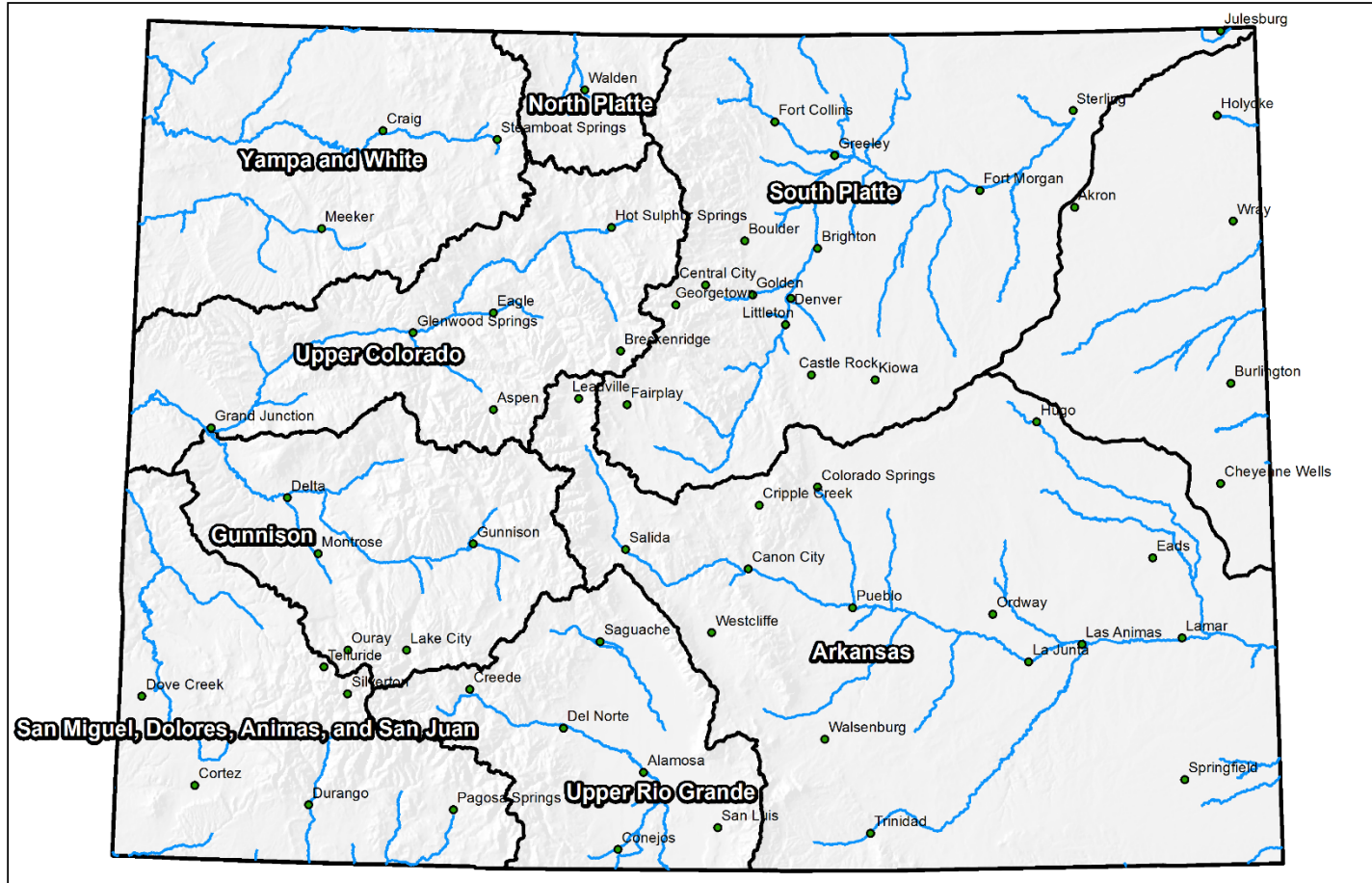
## ARKANSAS RIVER BASIN Reservoir Storage Departure from Average





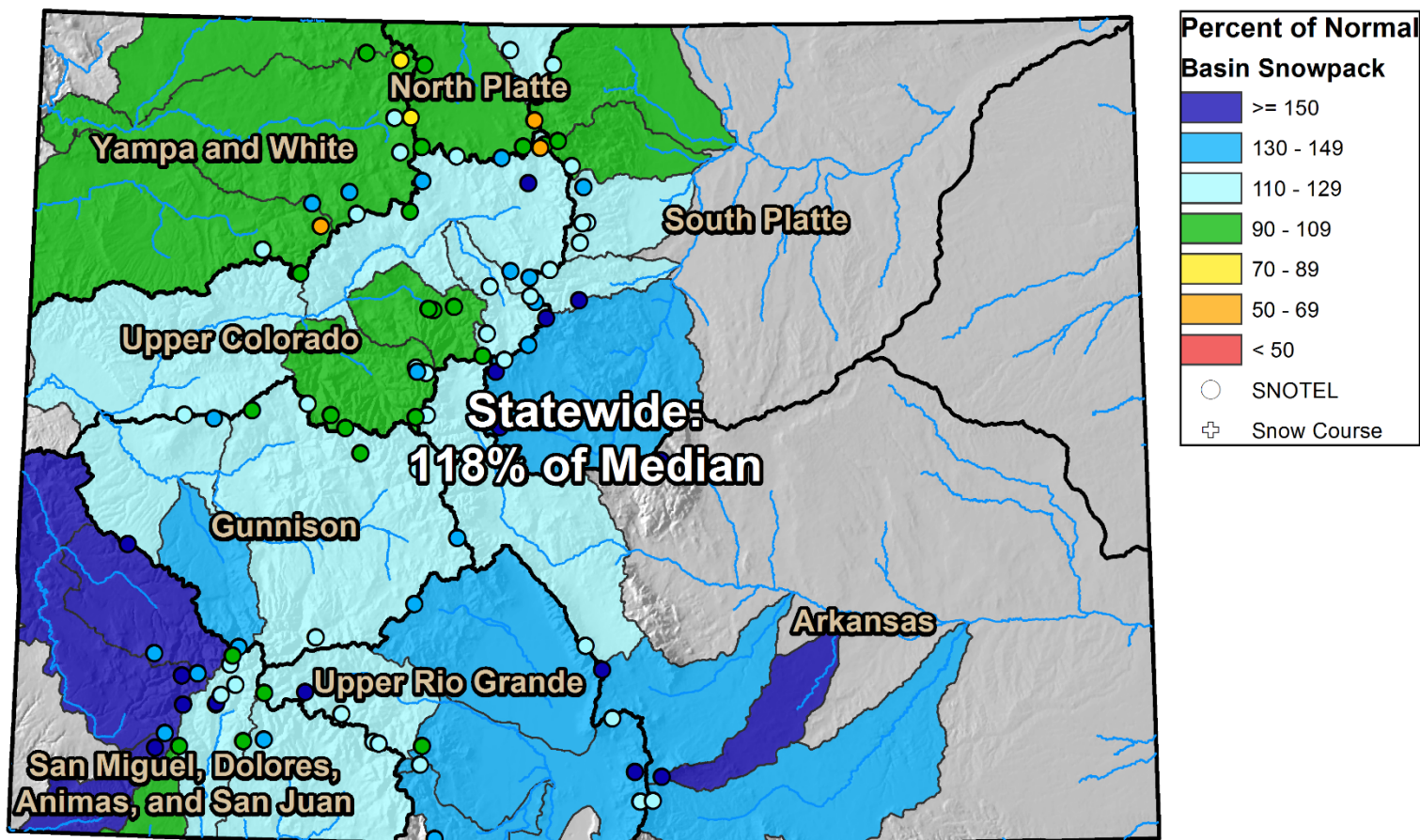
## Colorado Statewide Summary

Colorado Major Basins



0 25 50 100 150 200 Miles

## Colorado Snowpack Summary January 1, 2016

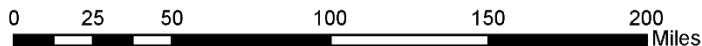
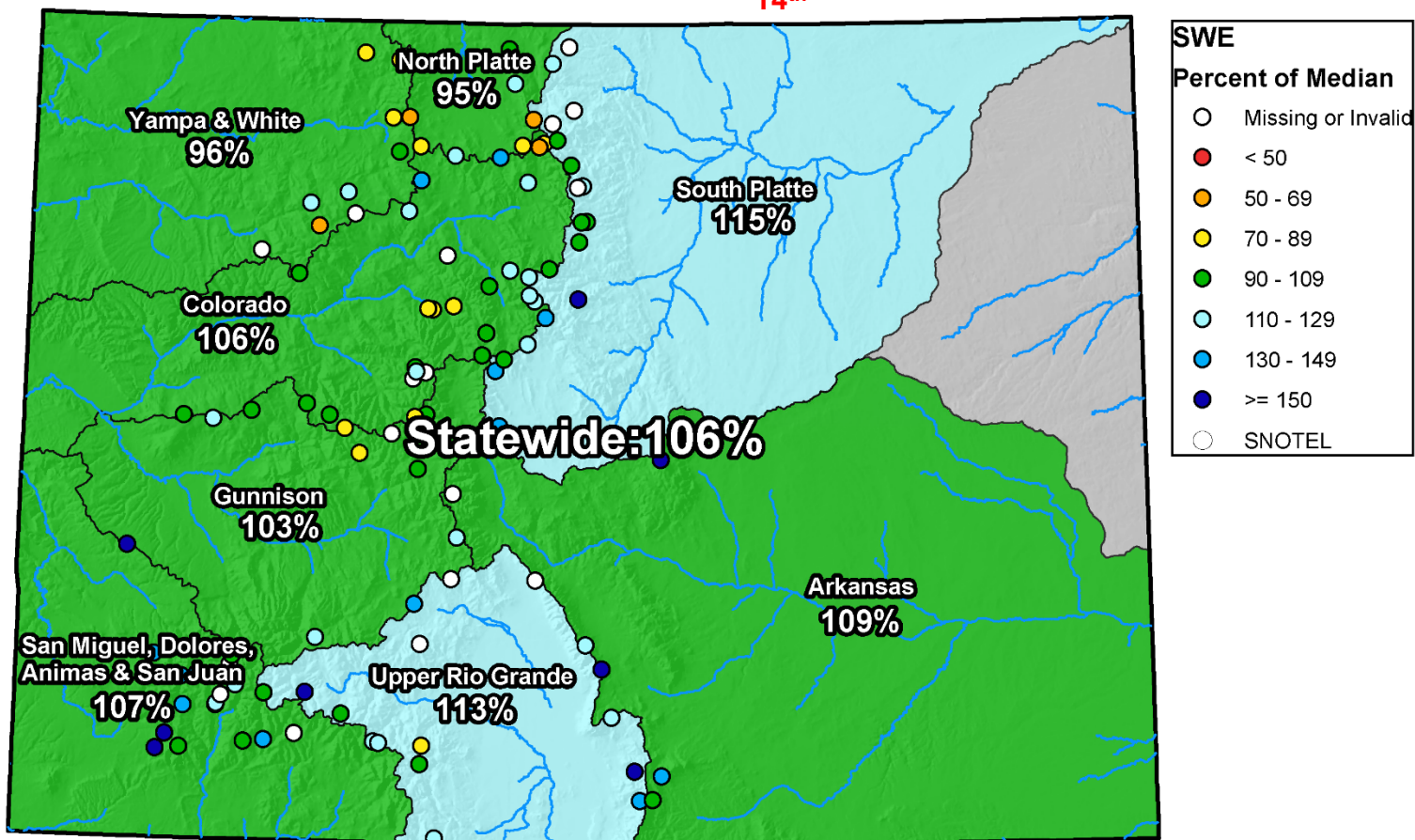


0 25 50 100 150 200 Miles

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

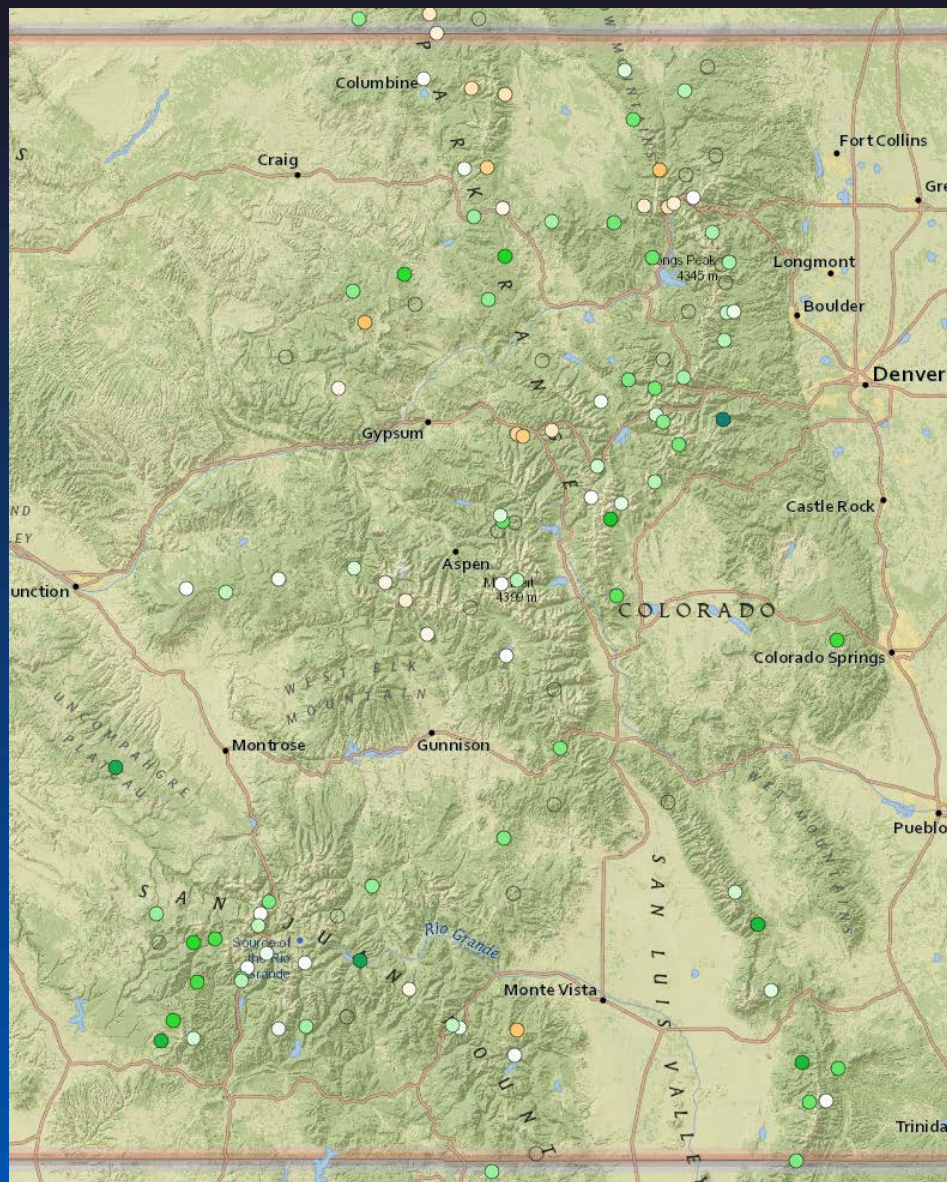
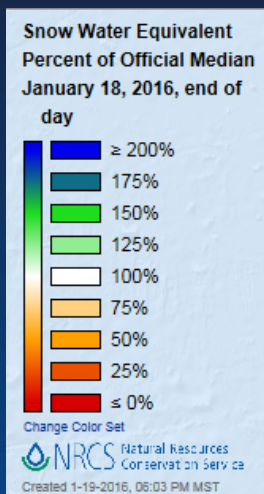
Current as of Jan 19, 2016

14<sup>th</sup>



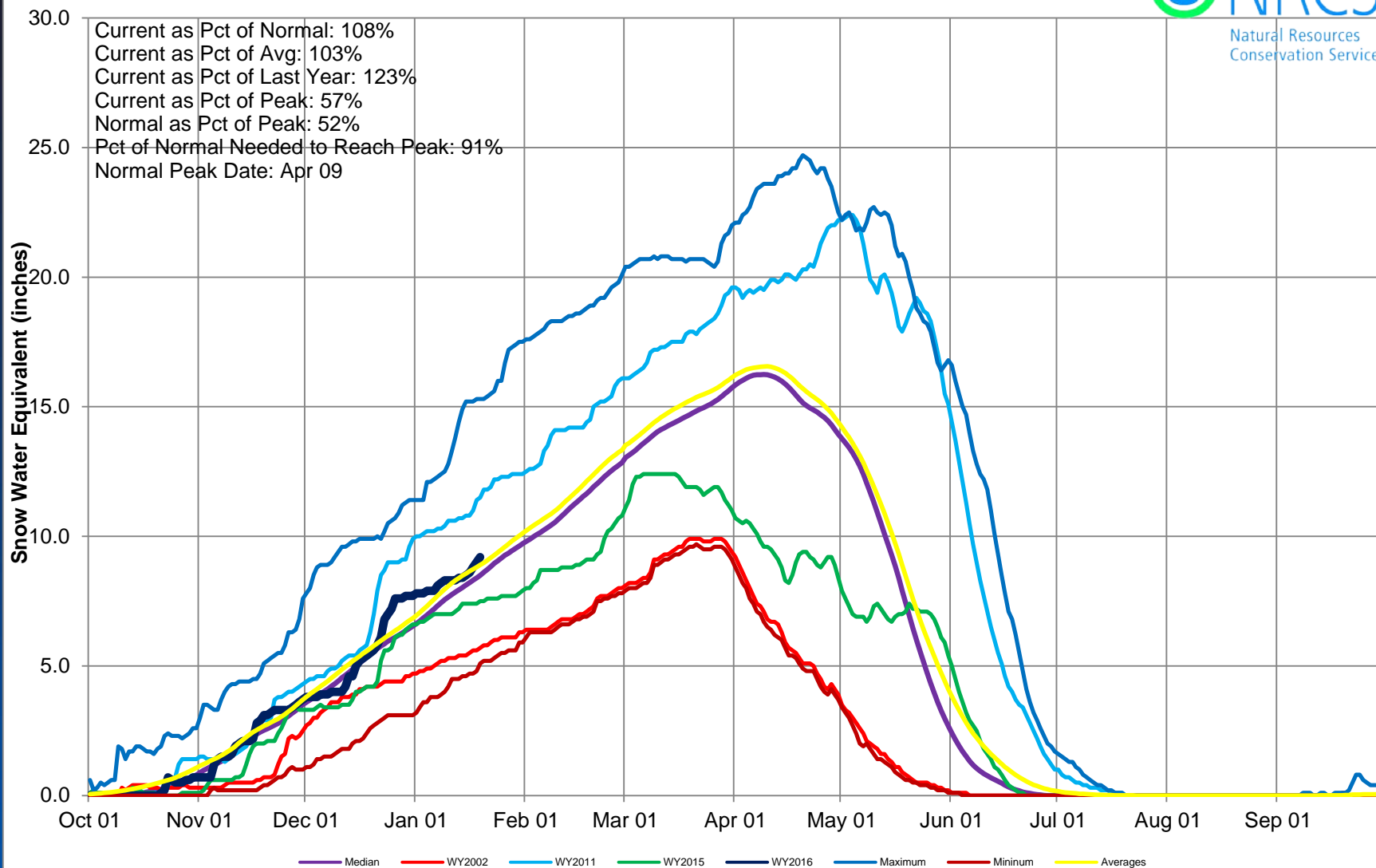


## SNOTEL Percent of Median SWE as of 1-19-2016



## Colorado Statewide High/Low Snowpack Summary

**Based on Provisional SNOTEL data as of Jan 19, 2016**

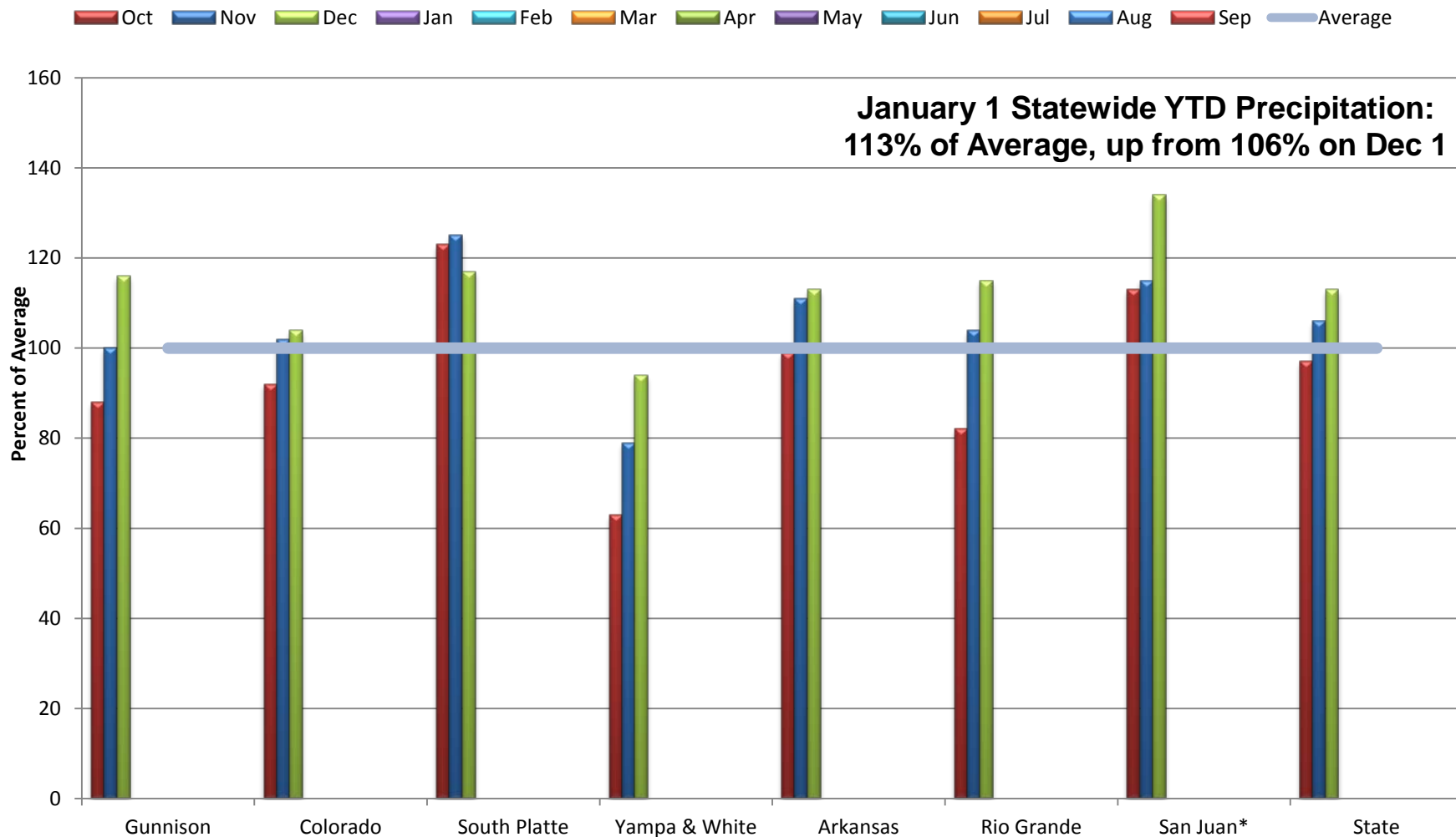






## Colorado Year-to-Date Precipitation Summary for WY2016

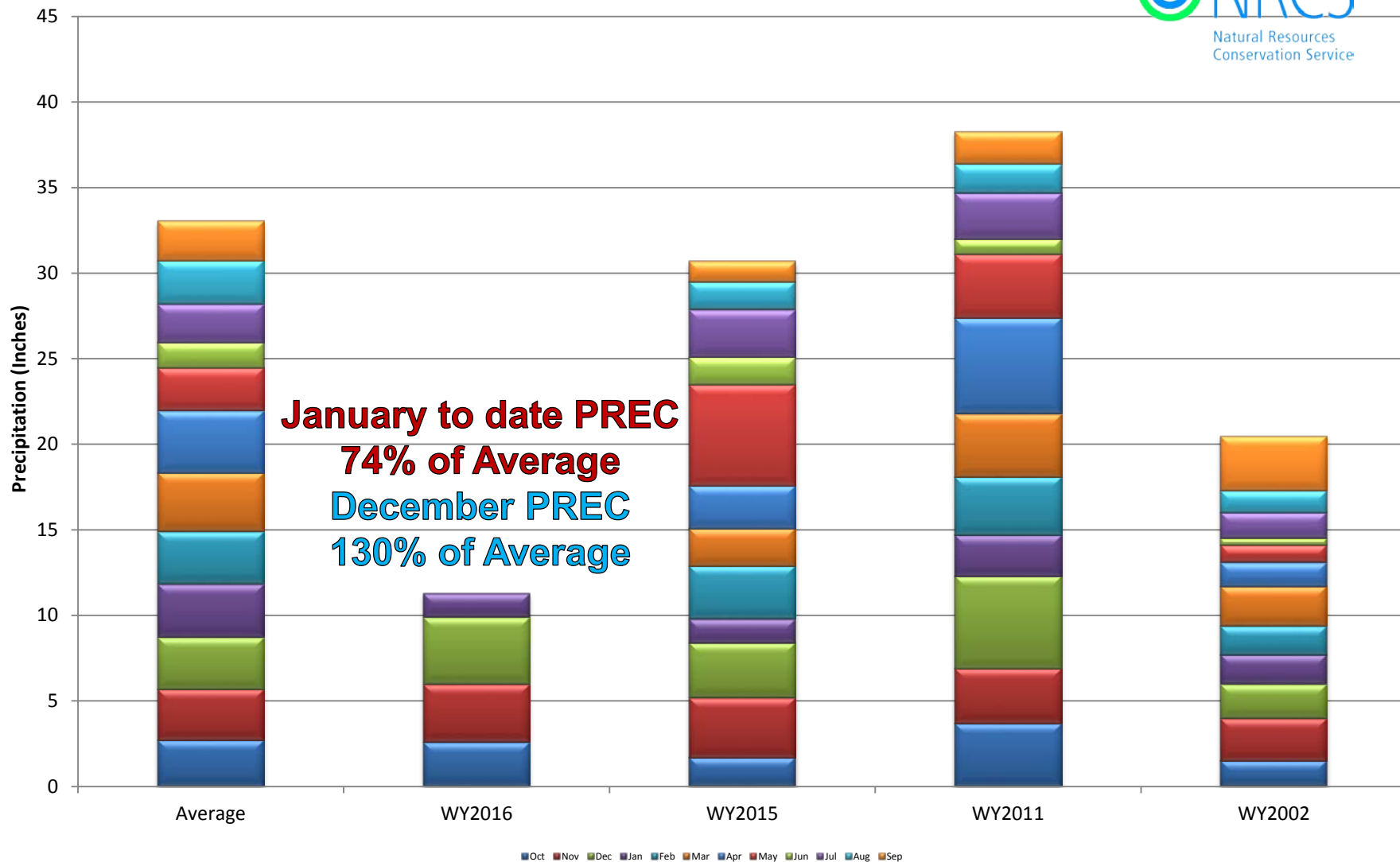
USDA Natural Resources Conservation Service



\*Includes Animas, Dolores, San Miguel Basins

## Colorado Statewide High/Low Monthly Precipitation Summary

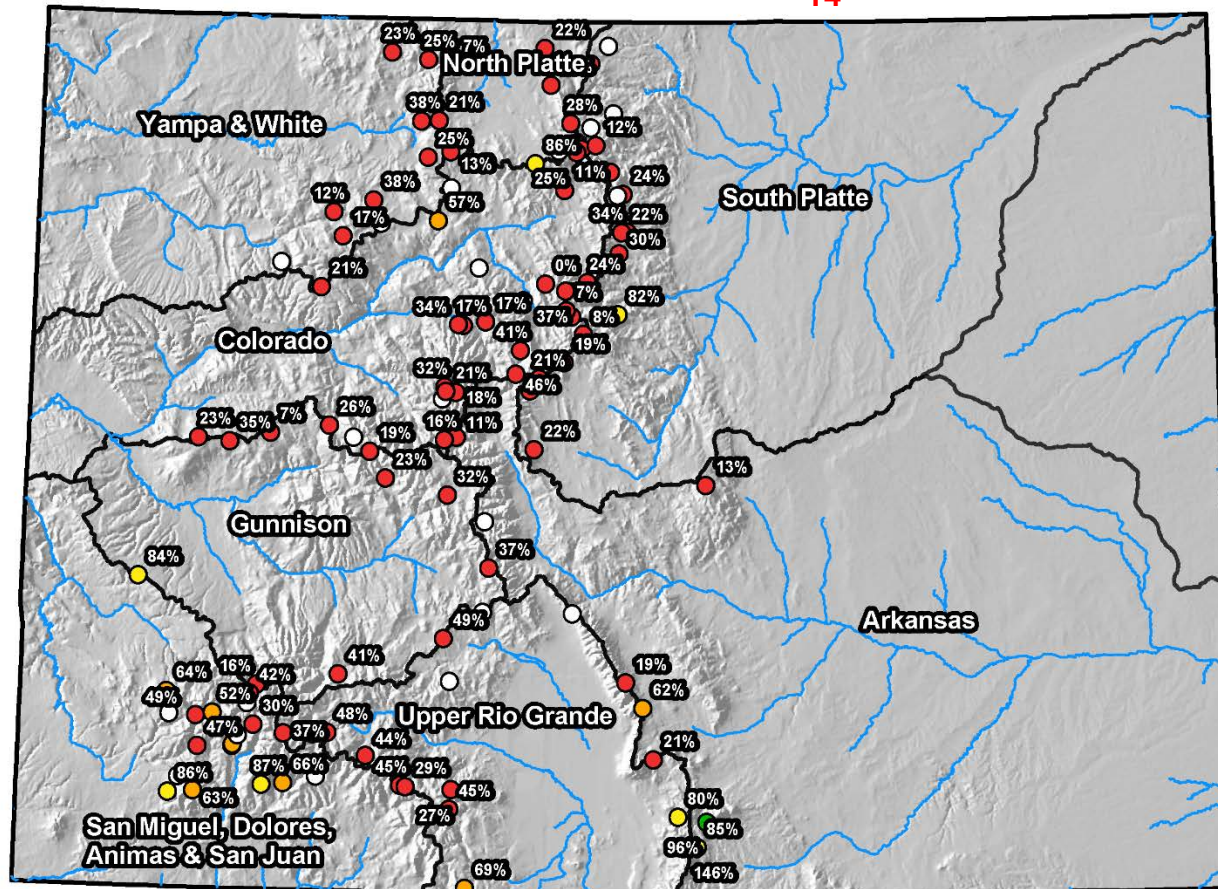
*Based on Provisional SNOTEL data as of Jan 19, 2016*



## Colorado SNOTEL Month-to-Date Precipitation

Current as of Jan 19, 2016

14<sup>th</sup>

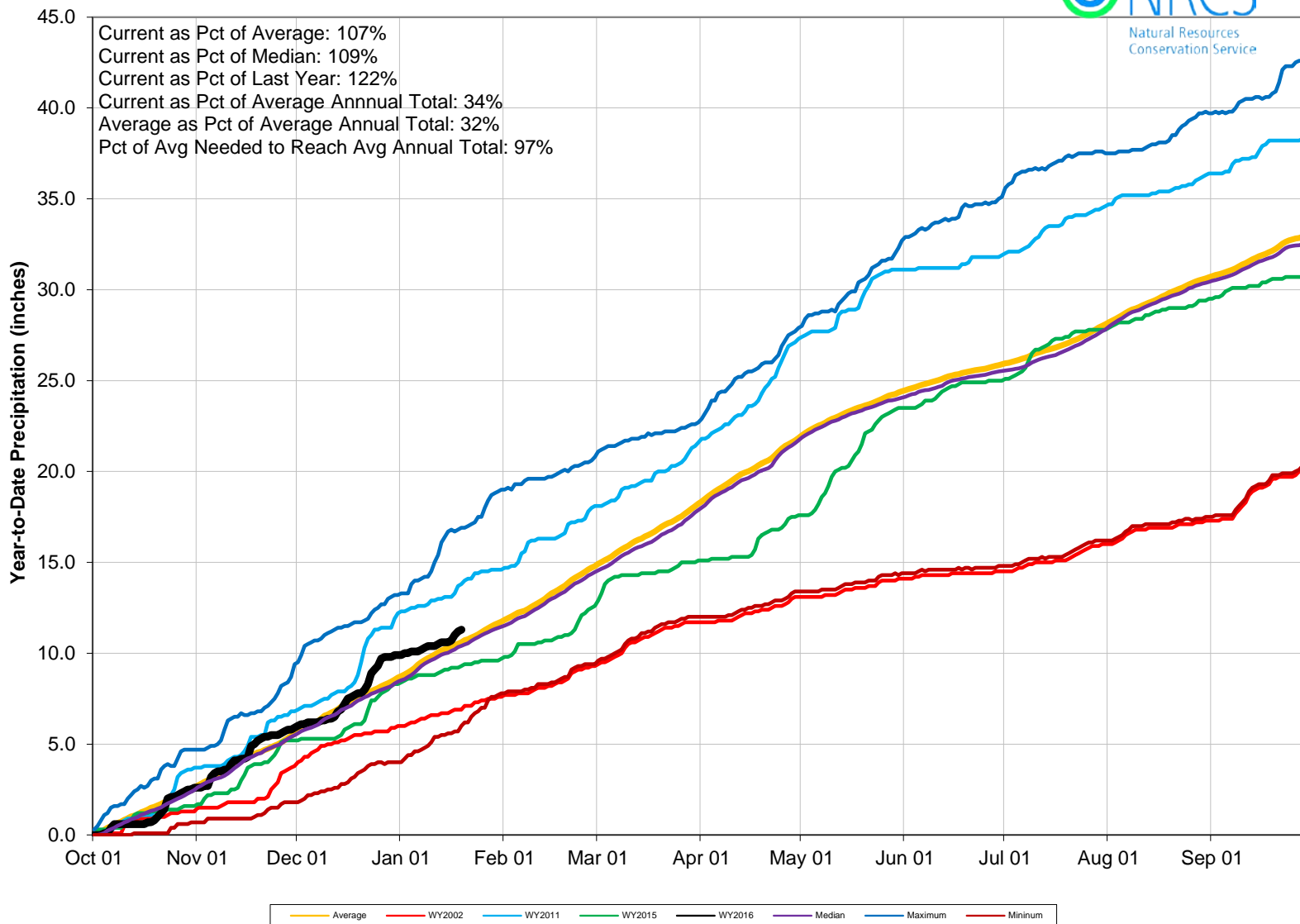


0 25 50 100 150 200 Miles



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

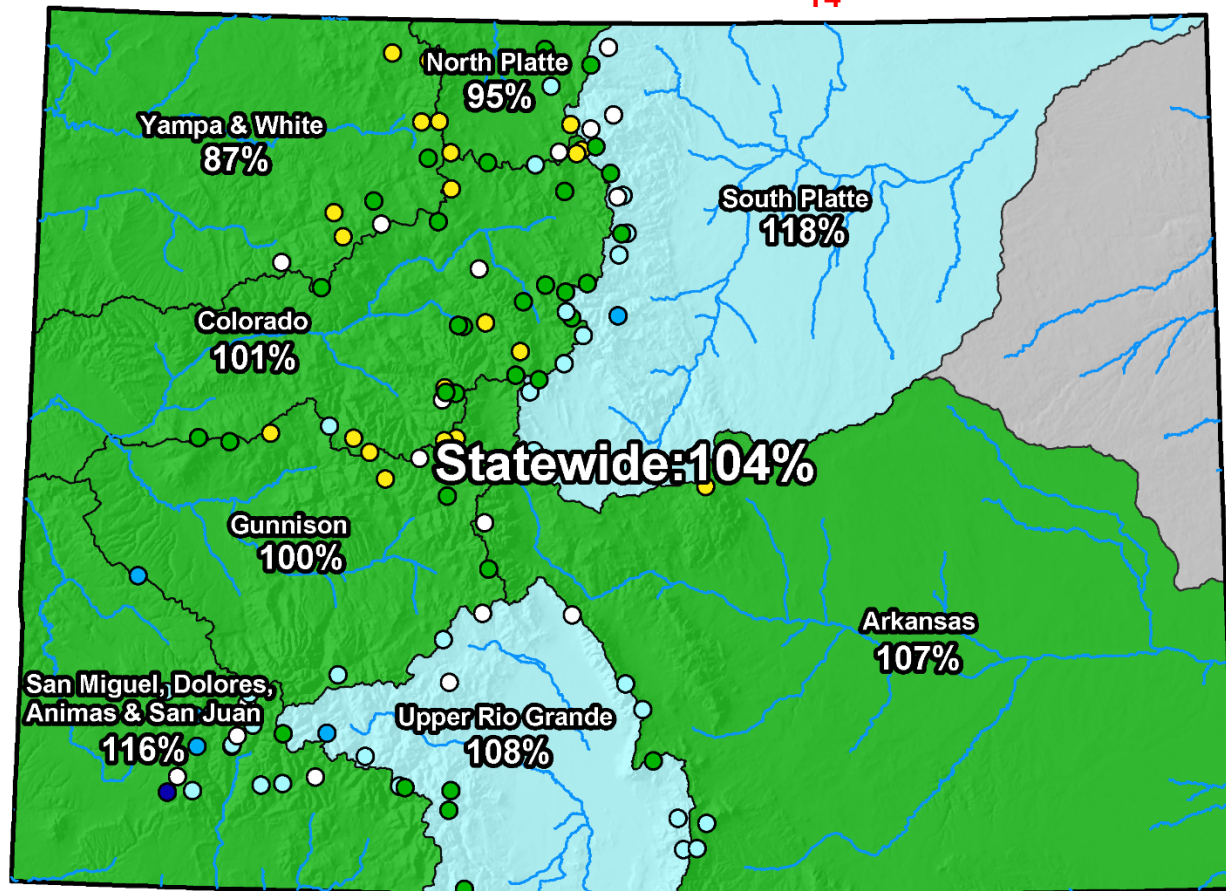
*Based on Provisional SNOTEL data as of Jan 19, 2016*





## Colorado SNOTEL Water Year to Date Precipitation

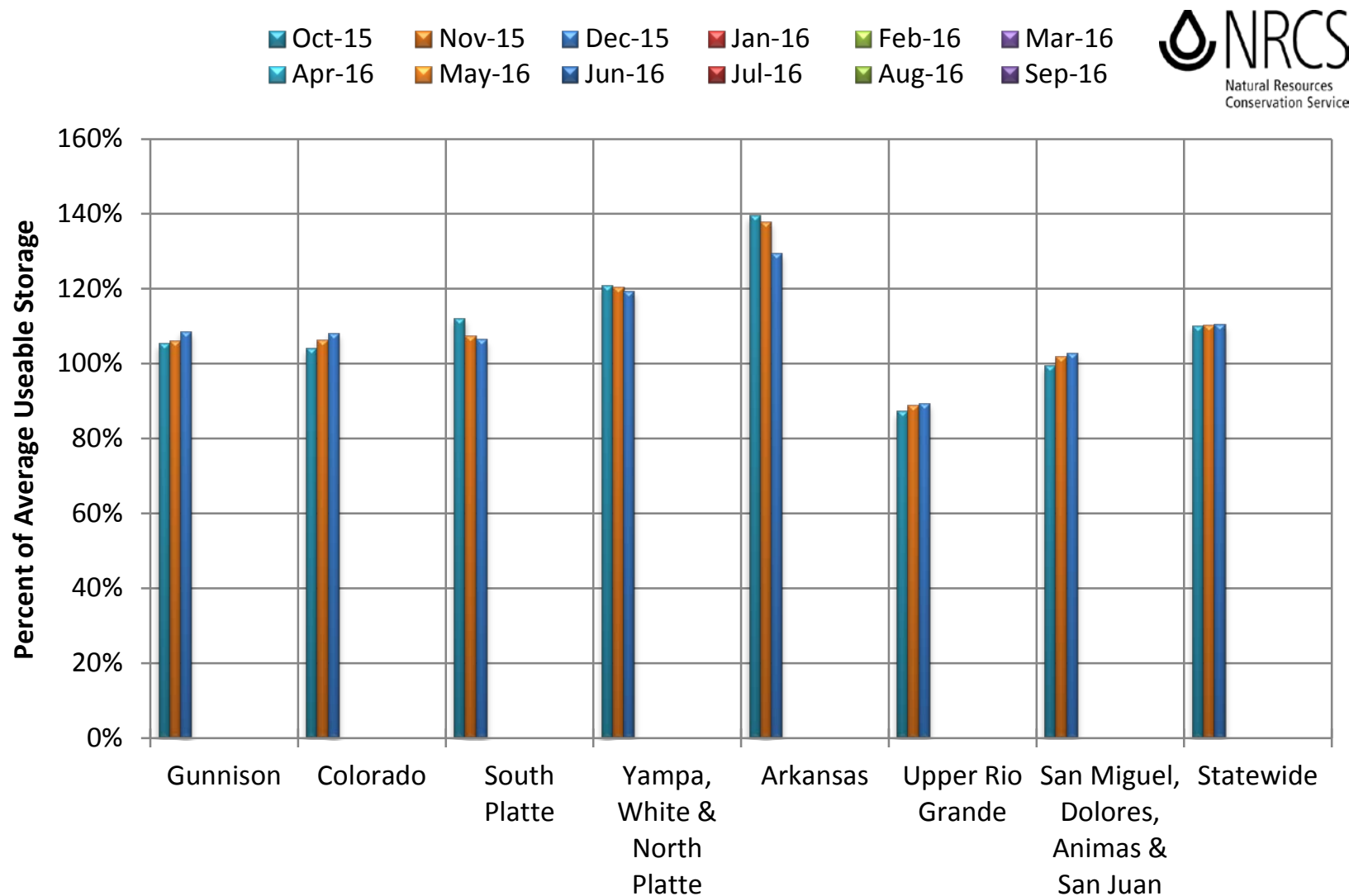
Current as of Jan ~~19~~<sup>14<sup>th</sup></sup>, 2016



0 25 50 100 150 200 Miles

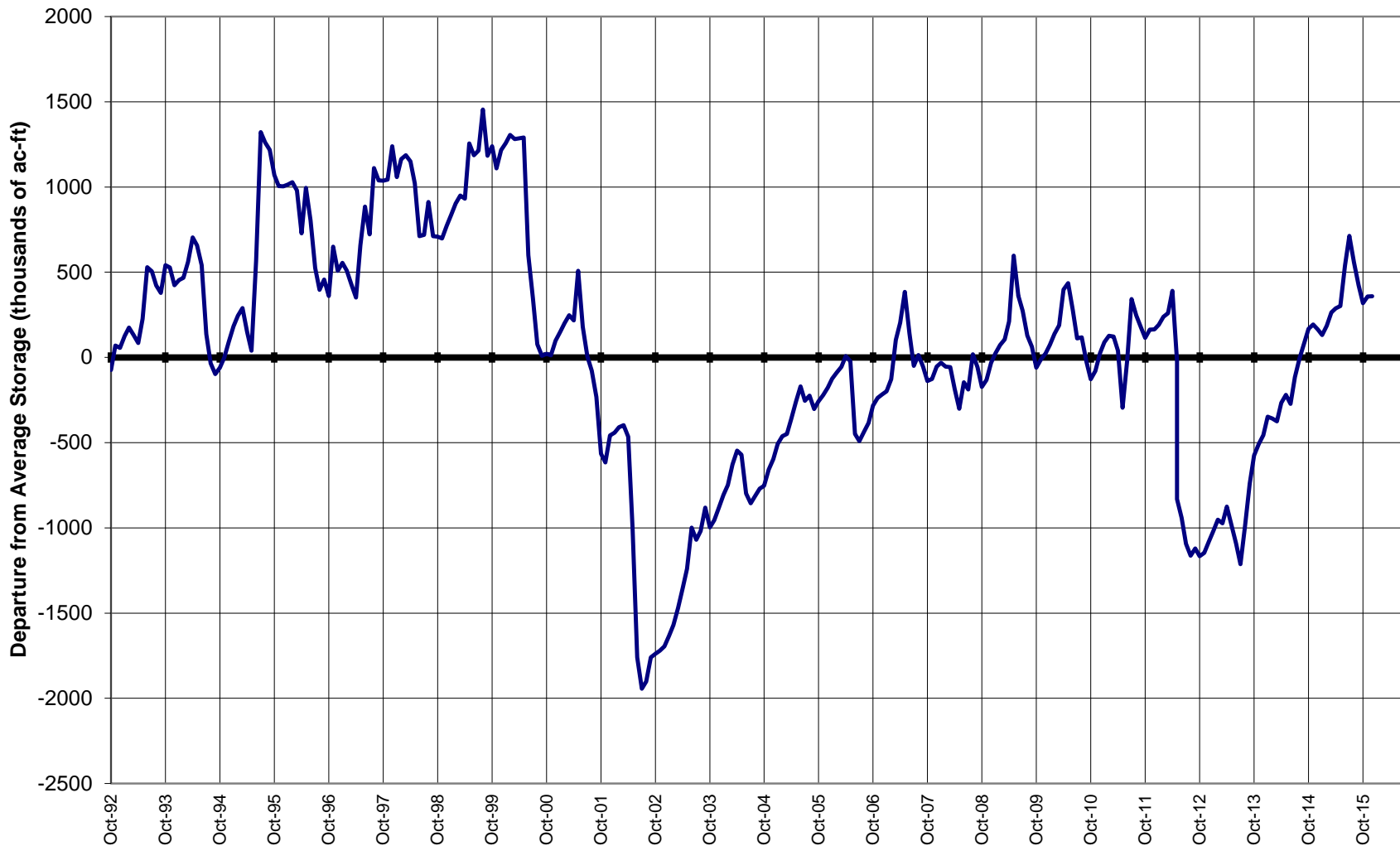


# Colorado Reservoir Storage

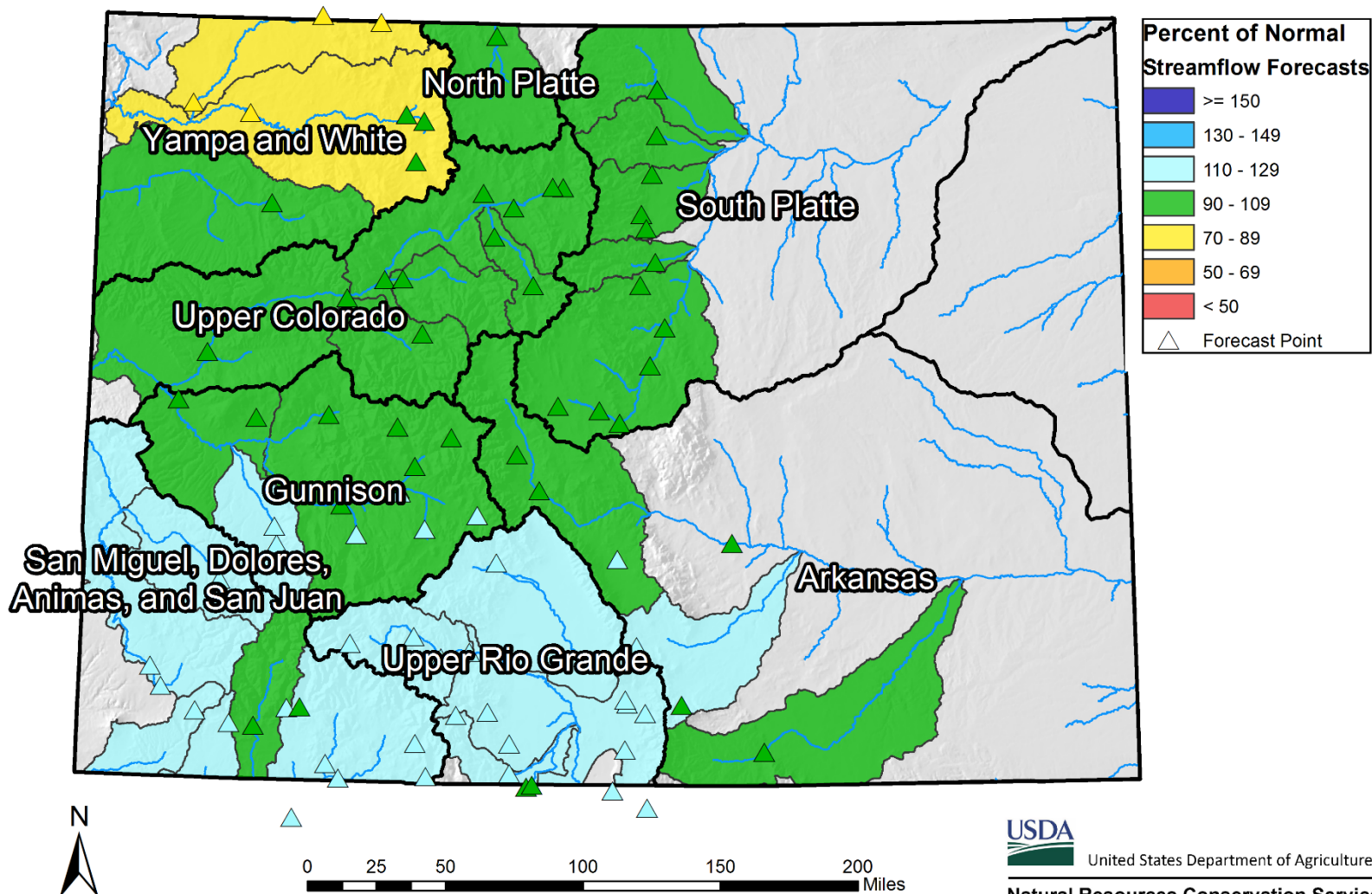




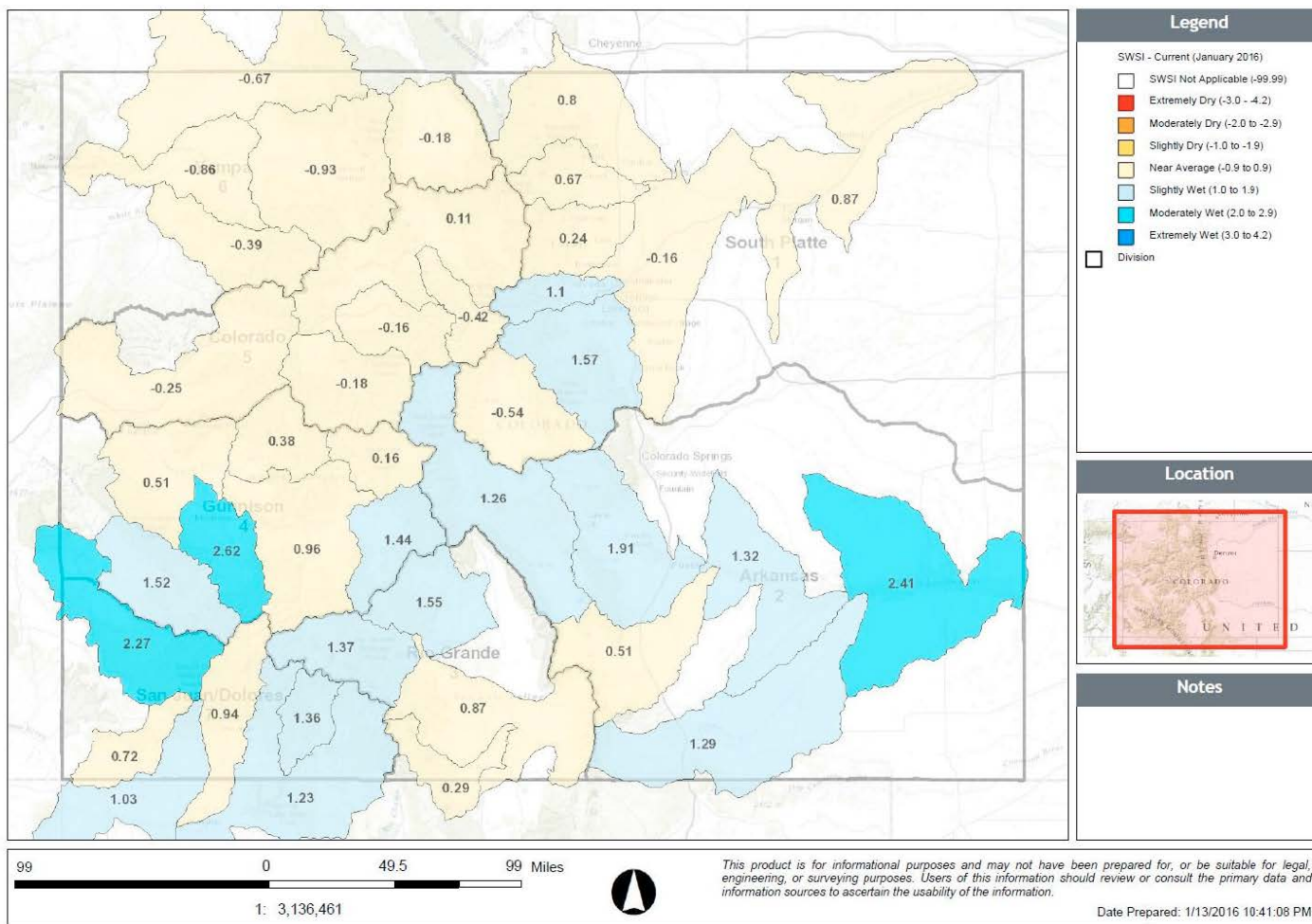
## COLORADO STATEWIDE Reservoir Storage Departure from Average



## Colorado Streamflow Forecasts Summary January 1, 2016



## SURFACE WATER SUPPLY INDEX FOR COLORADO BY HUC

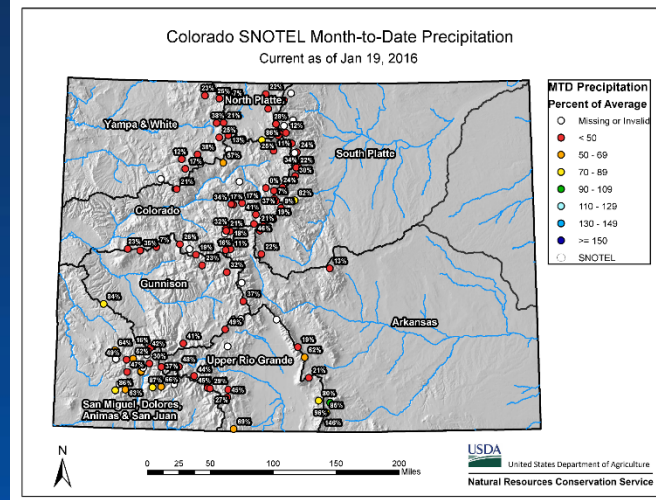
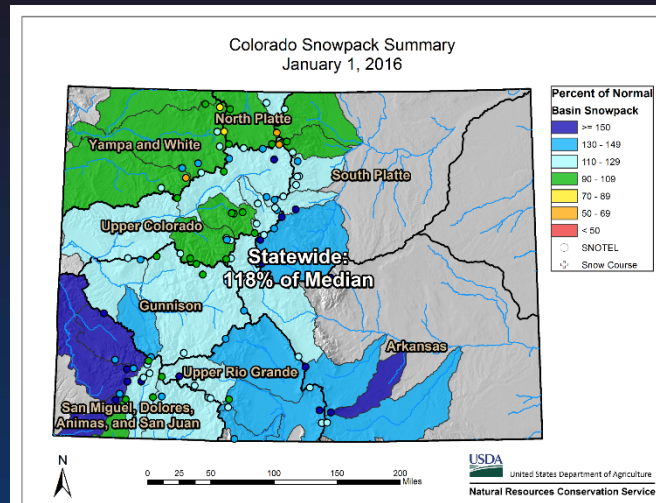


January 1, 2016



## Summary

- To this point, Jan. 20<sup>th</sup>, in a typical year about 55% of the snowpack accumulation season as passed.
- Snowpack through the first quarter of the water year was above normal for nearly the entire state. Well above norm in San Juans.
- Since Jan 26<sup>th</sup> snow accumulation has subsided and percent of normal numbers have fallen but remain near normal levels.
- Reservoirs statewide are in relatively good standing at 110% of normal.
- SWSIs follow the general convention of being close to normal in the northern half of the state and above normal in the southern.







United States Department of Agriculture

## Colorado Snow Surveys

# What's next, around the bend or over the cliff?





United States Department of Agriculture

Colorado Snow Surveys

# Water Availability Task Force Meeting

## January 20<sup>th</sup>, 2016

### NRCS Snow Survey and Water Supply Forecasting Program

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720-544-2853

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