



United States Department of Agriculture

Colorado Snow Surveys

# Water Availability Task Force Meeting

## June 17<sup>th</sup>, 2015

### NRCS Snow Survey and Water Supply Forecasting Program

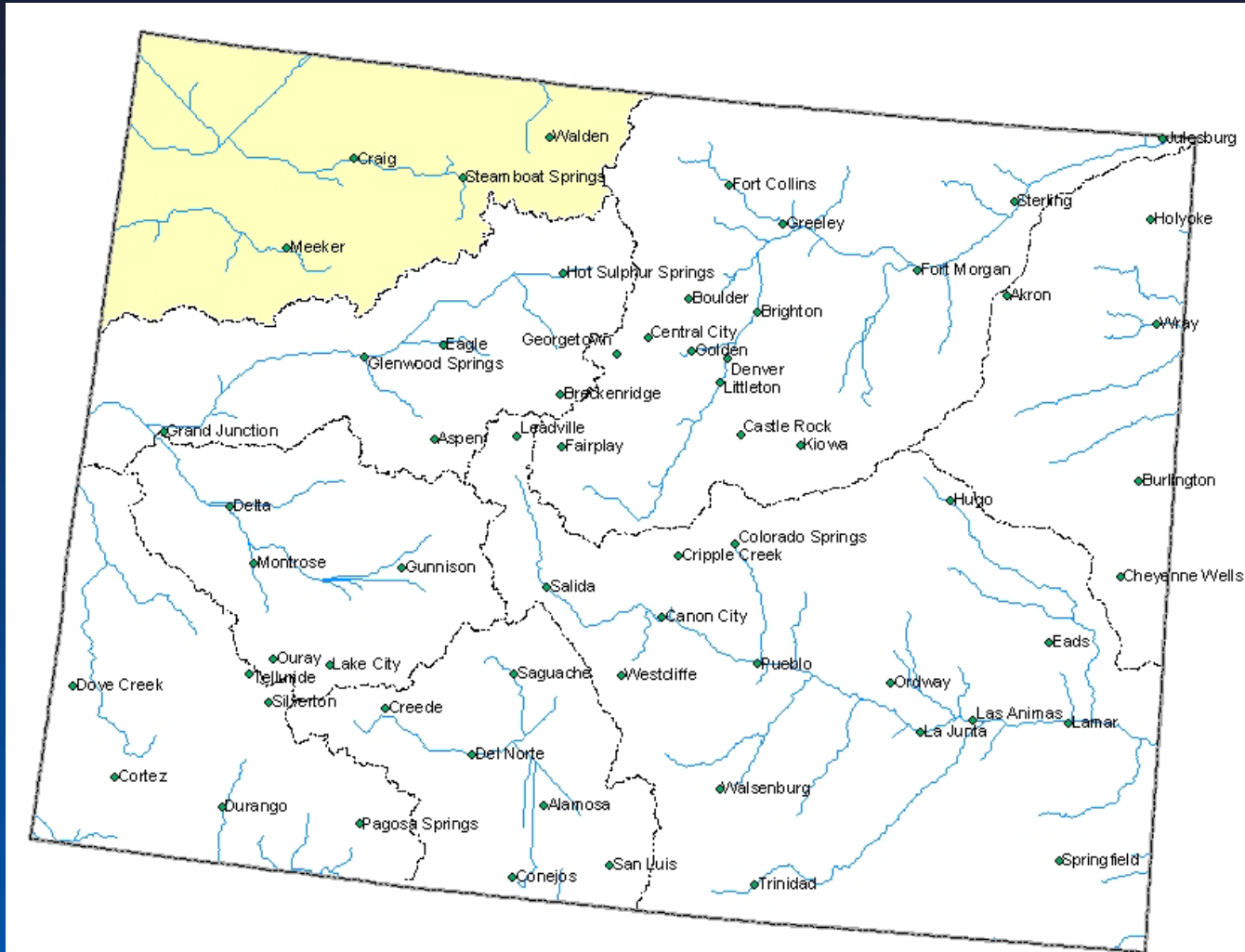
Brian Domonkos

Colorado Snow Survey Supervisor

720-544-2852

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

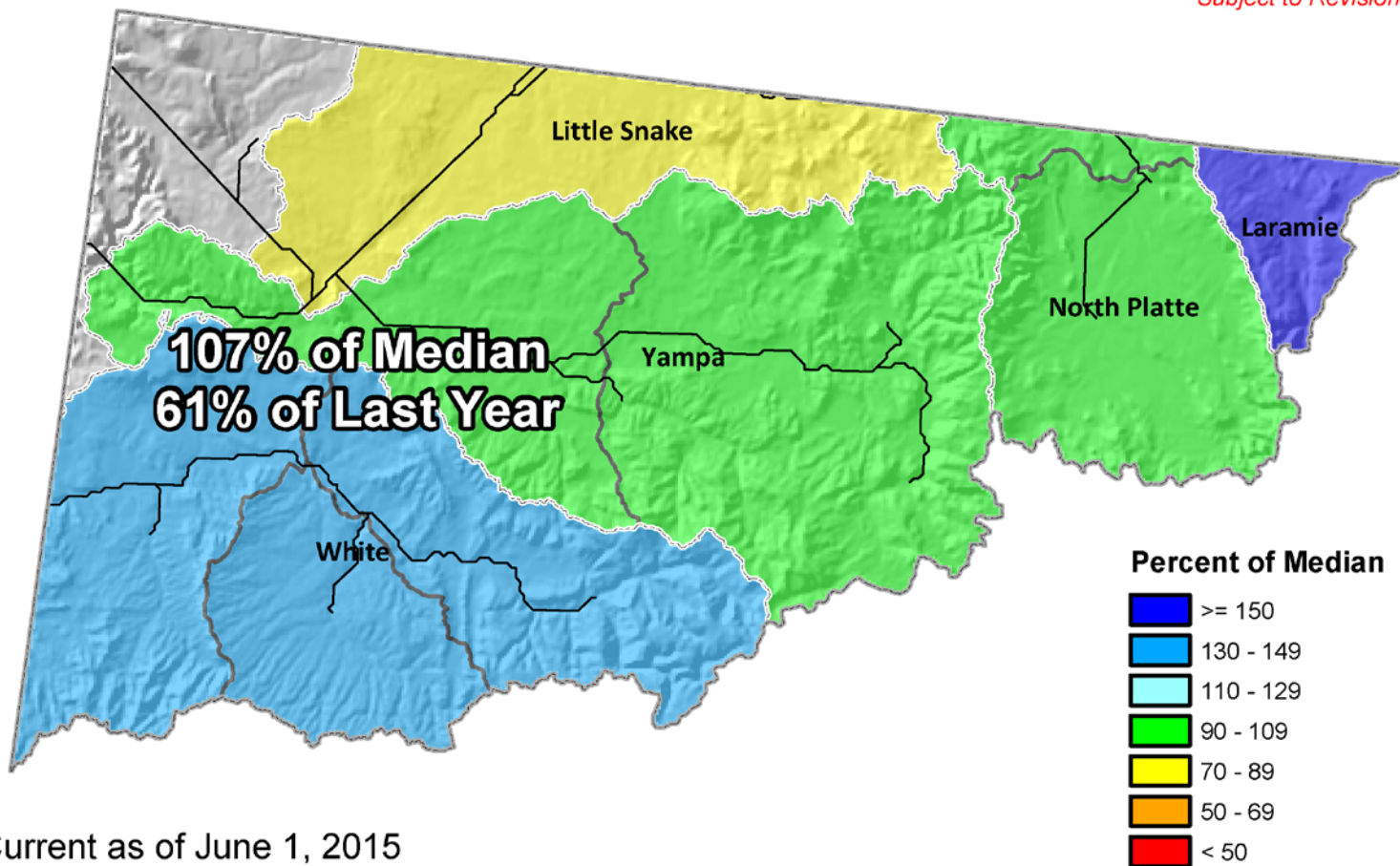
## Yampa, White & North Platte River Basins Summary



## Yampa, White and North Platte River Basins Snowpack Map



*Provisional Data  
Subject to Revision*



Current as of June 1, 2015

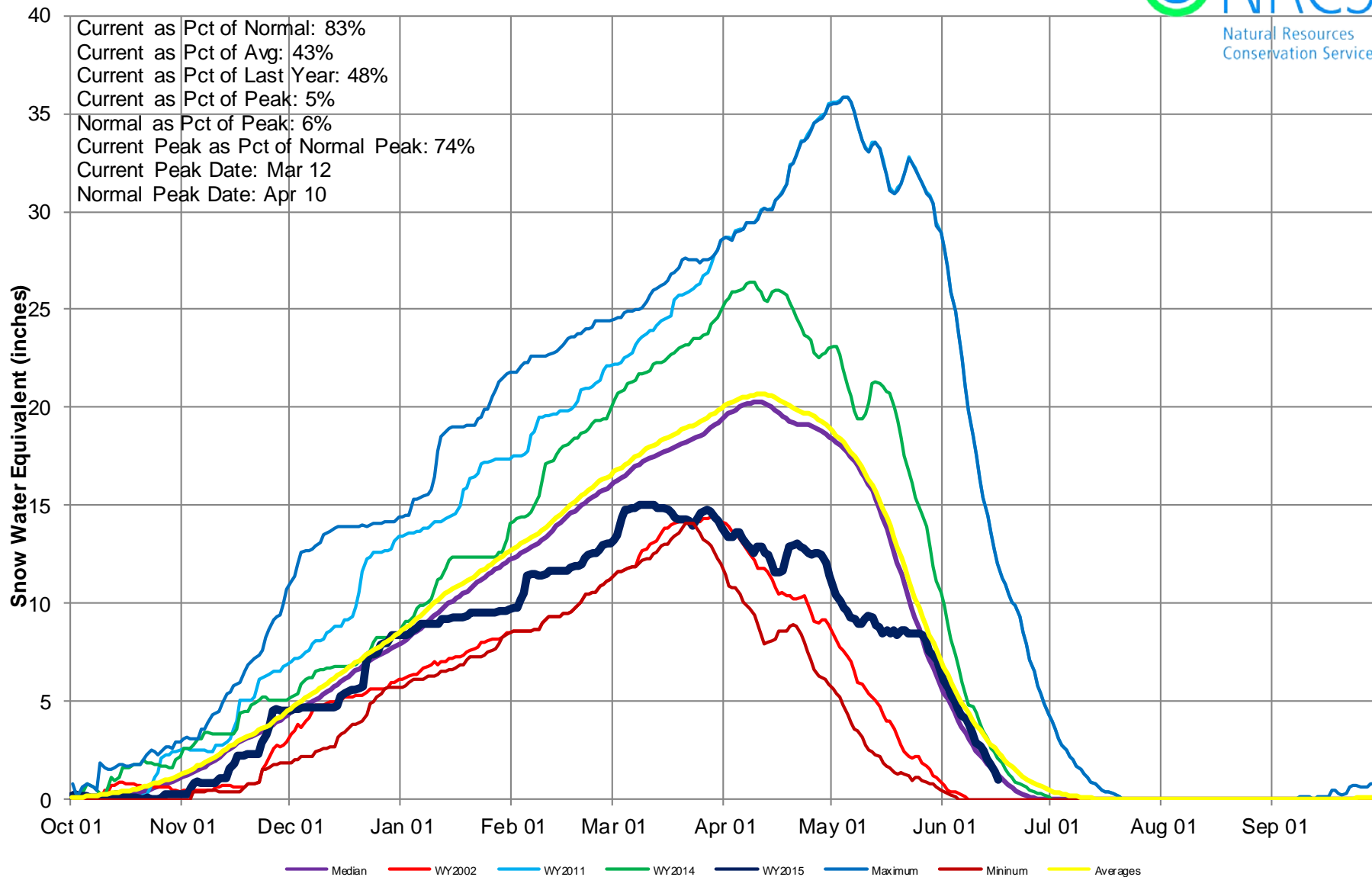


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# Colorado Snow Surveys

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

*Based on Provisional SNOTEL data as of Jun 16, 2015*





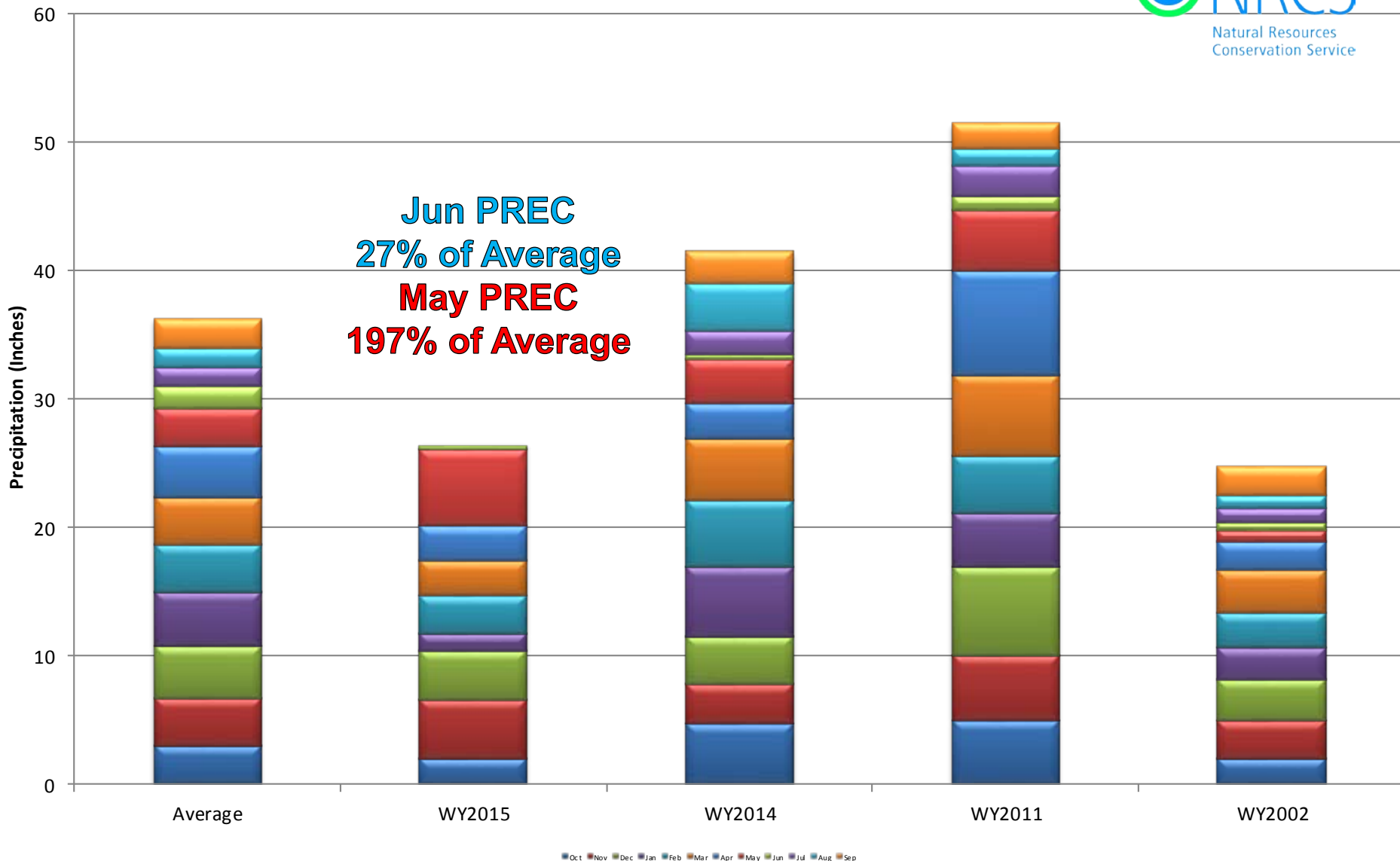


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# Colorado Snow Surveys

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

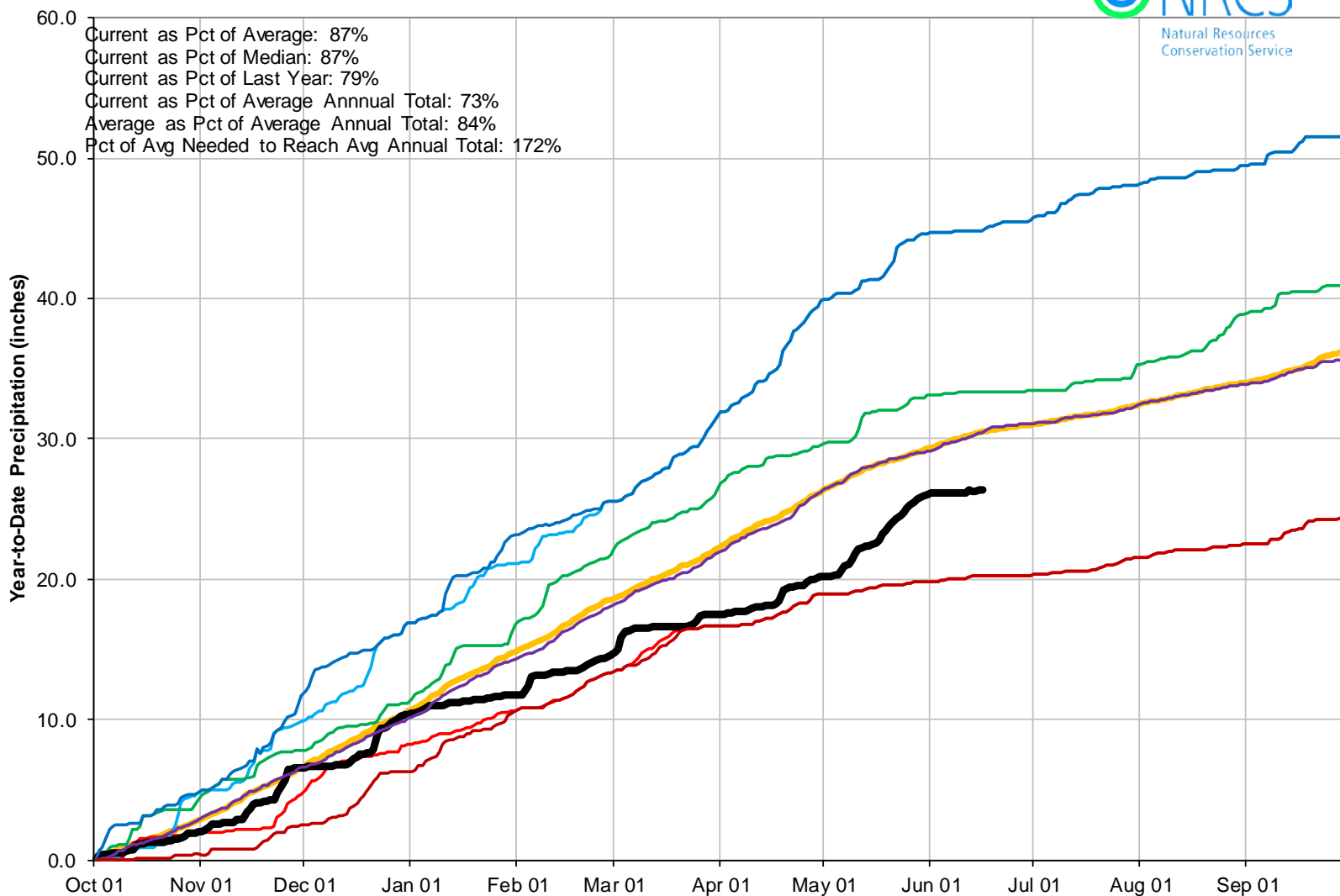
*Based on Provisional SNOTEL data as of Jun 16, 2015*





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

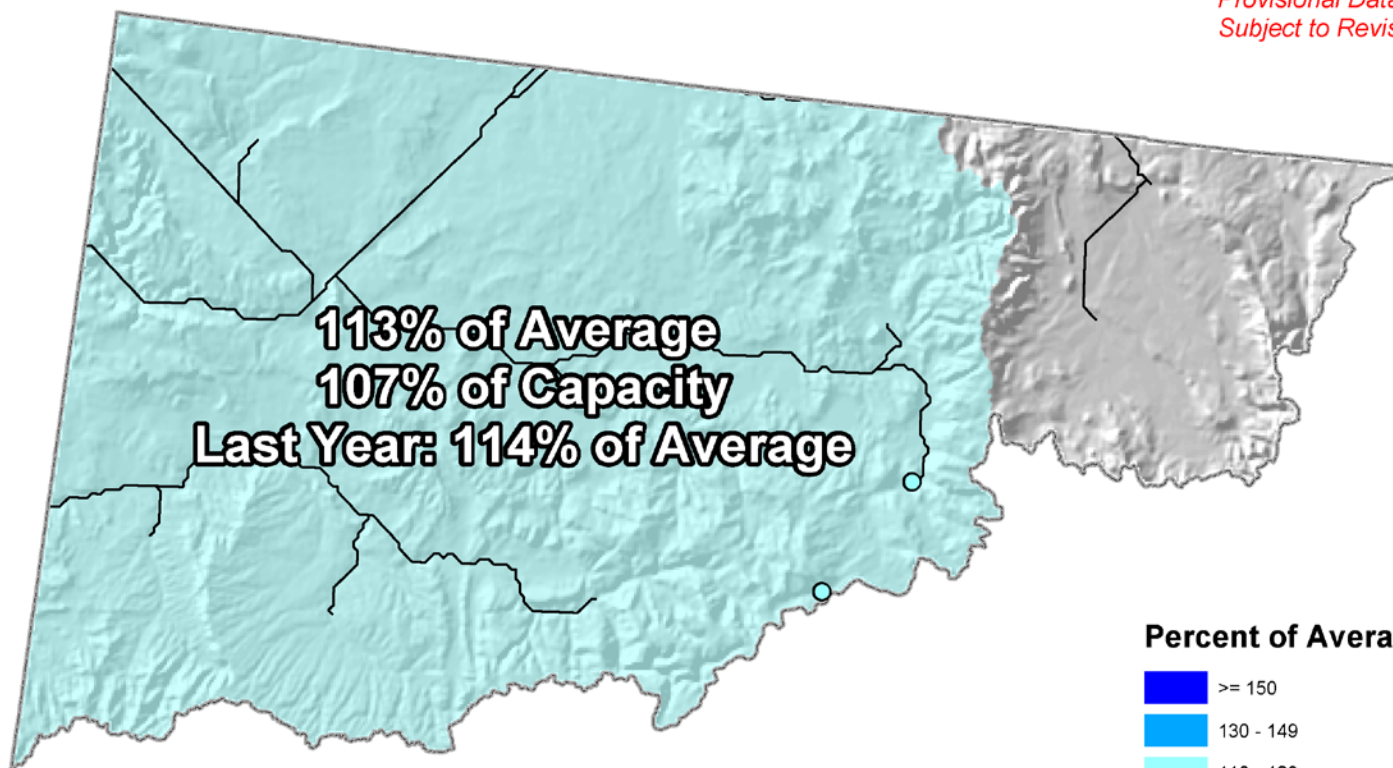
*Based on Provisional SNOTEL data as of Jun 16, 2015*



## Yampa & White River Basins Reservoir Storage Map



*Provisional Data  
Subject to Revision*



### Percent of Average

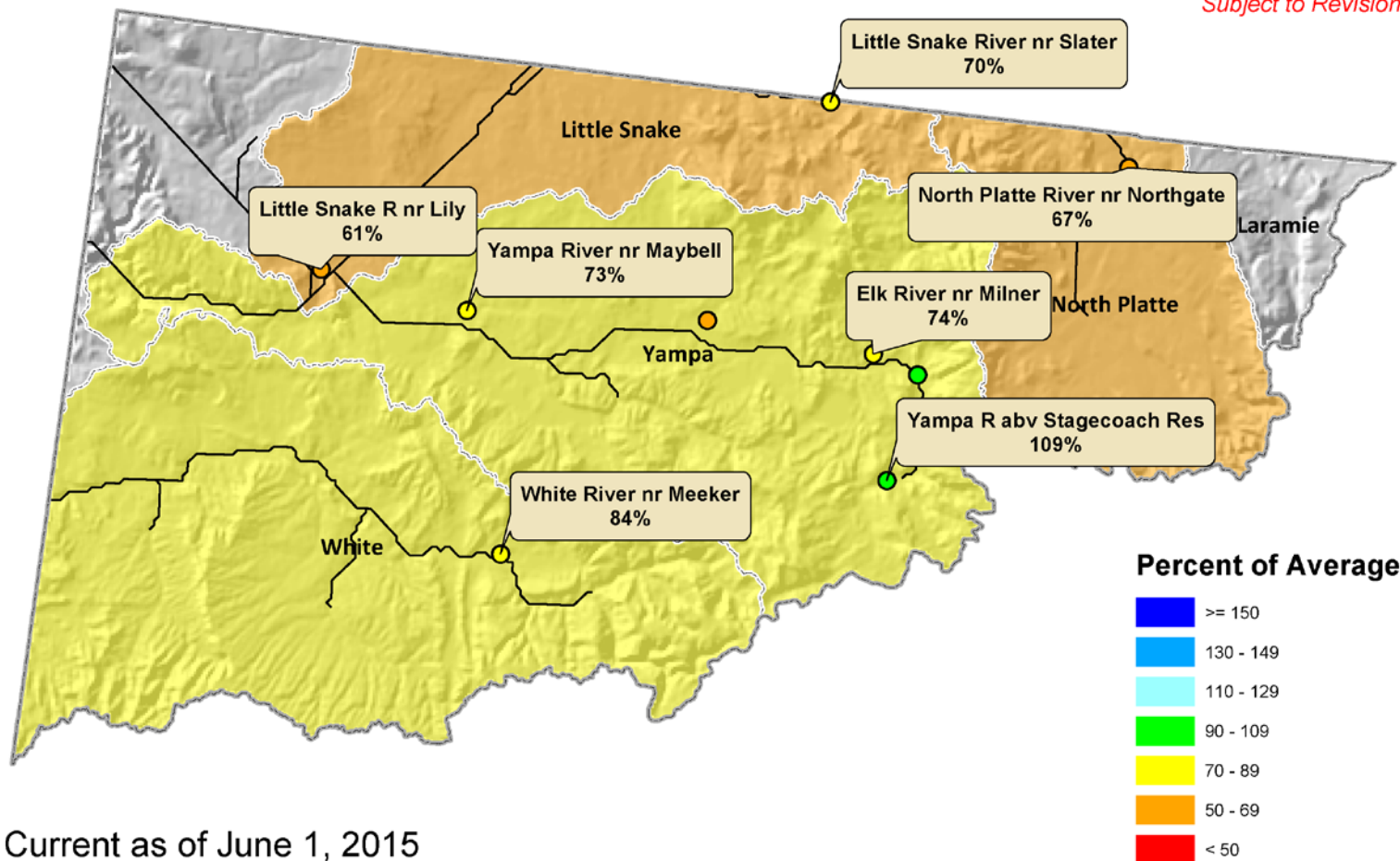


End of May 2015

## Yampa, White and North Platte River Basins Streamflow Map

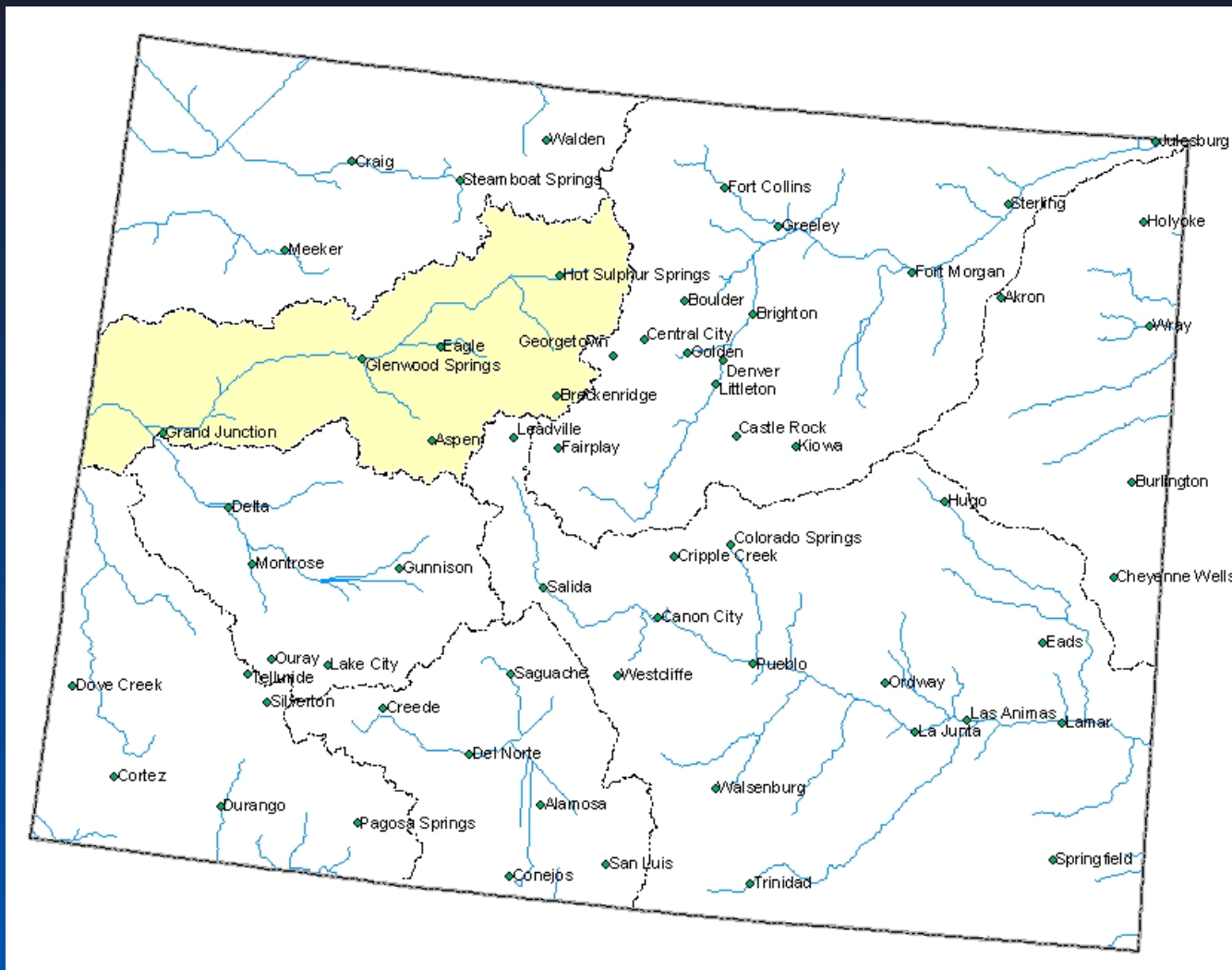


*Provisional Data  
Subject to Revision*



Current as of June 1, 2015

## Colorado River Basin Summary



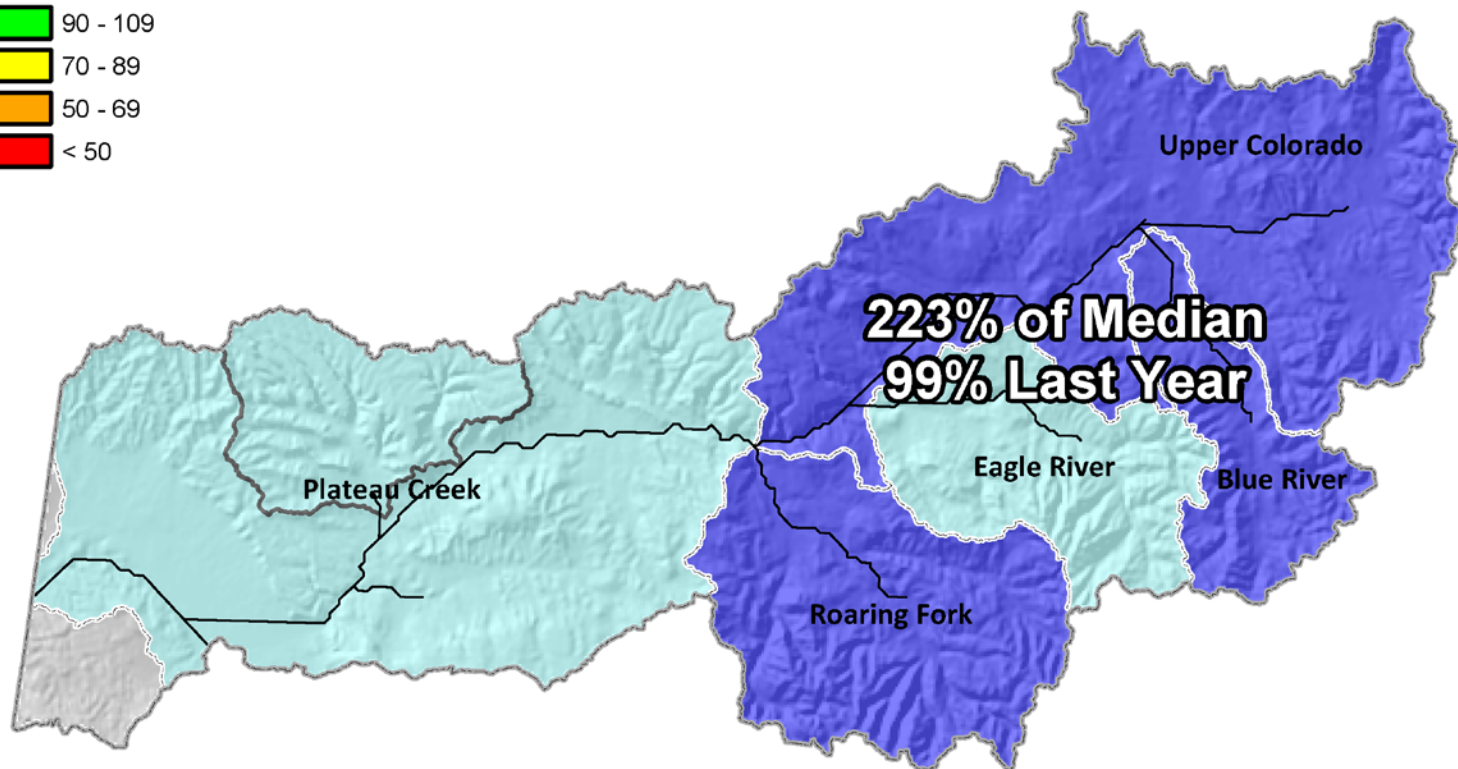


## Colorado River Basin Snowpack Map

### Percent of Median



*Provisional Data  
Subject to Revision*



Current as of June 1, 2015



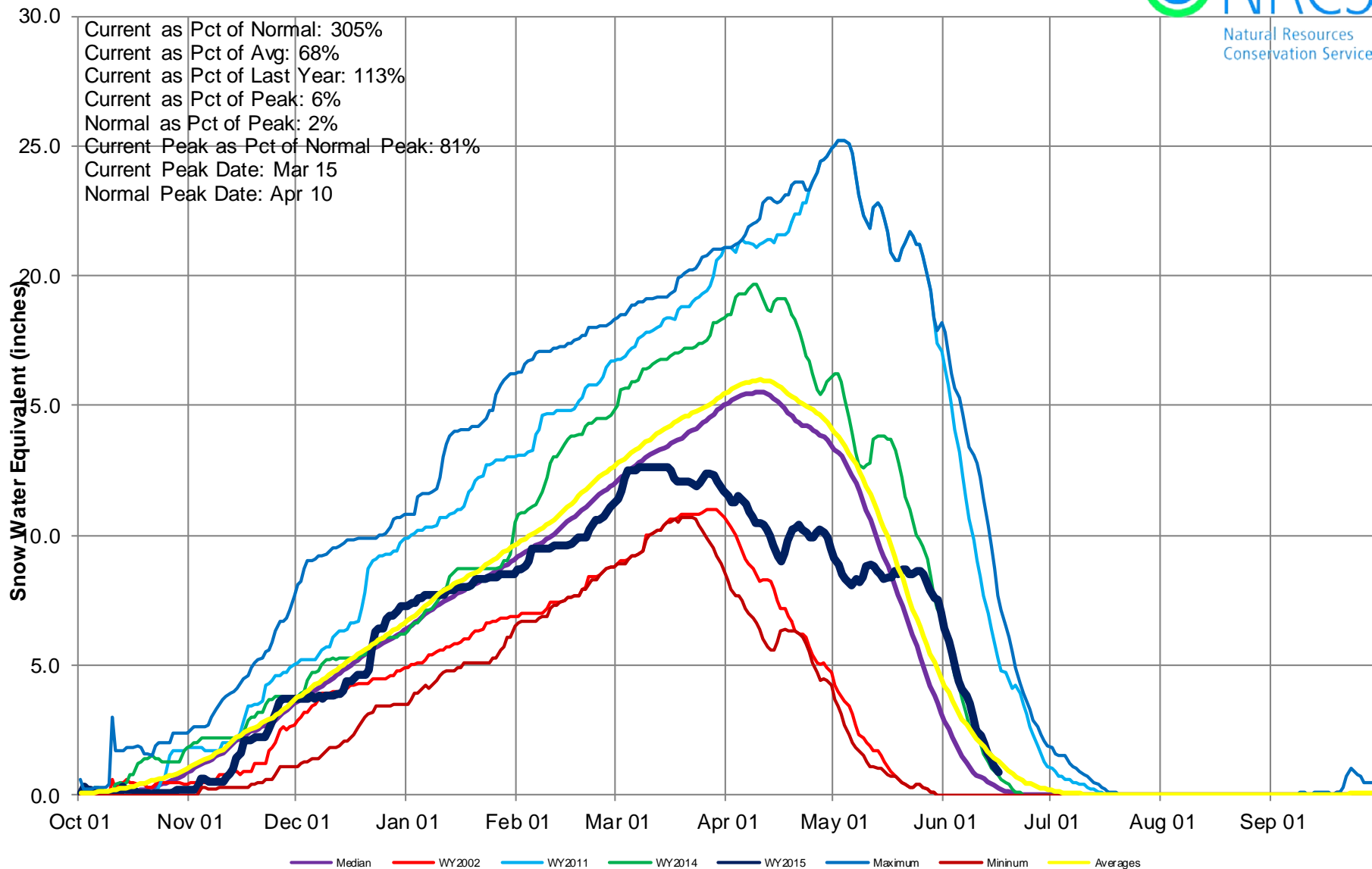


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# Colorado Snow Surveys

## Upper Colorado River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jun 16, 2015*



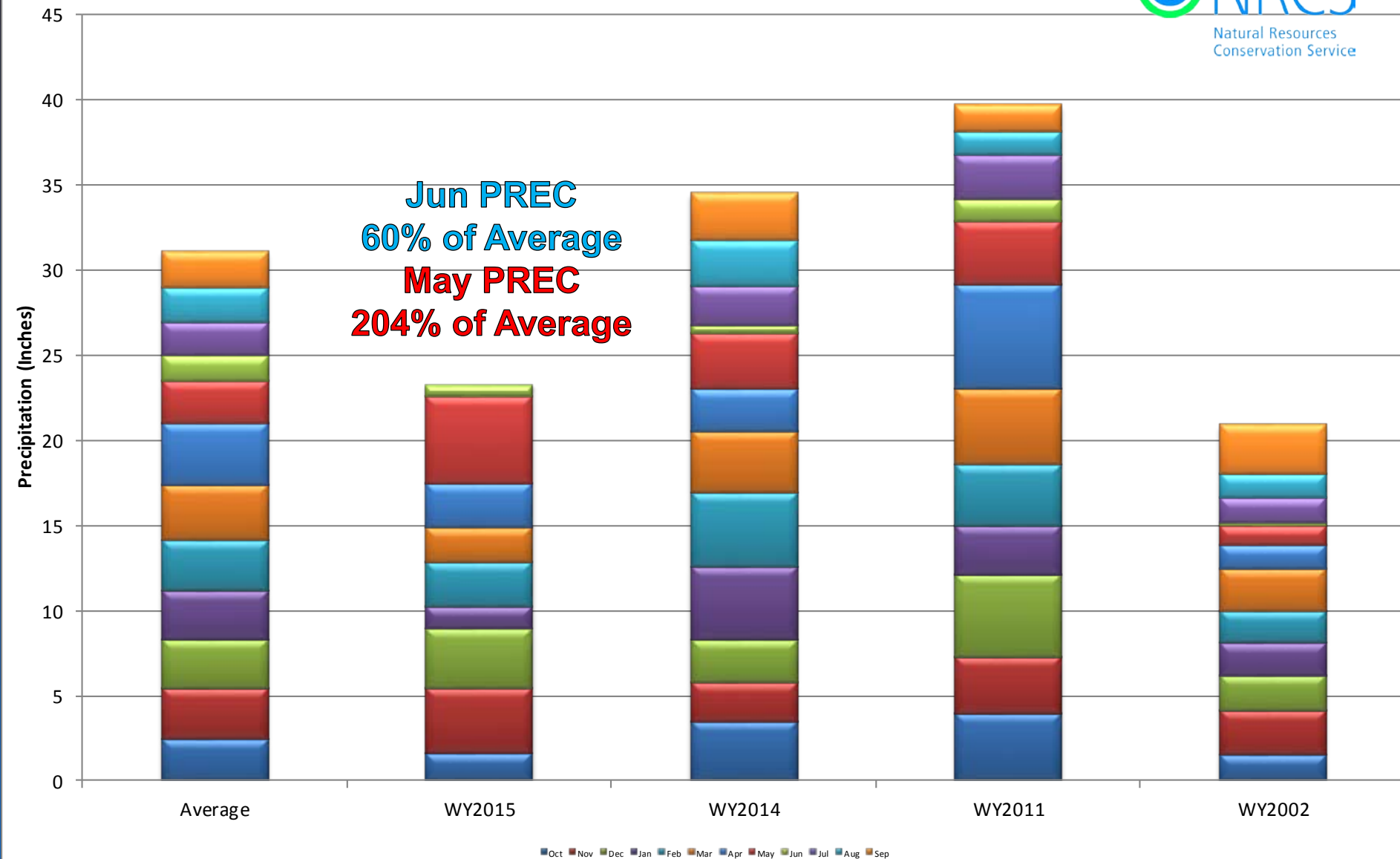


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# Colorado Snow Surveys

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

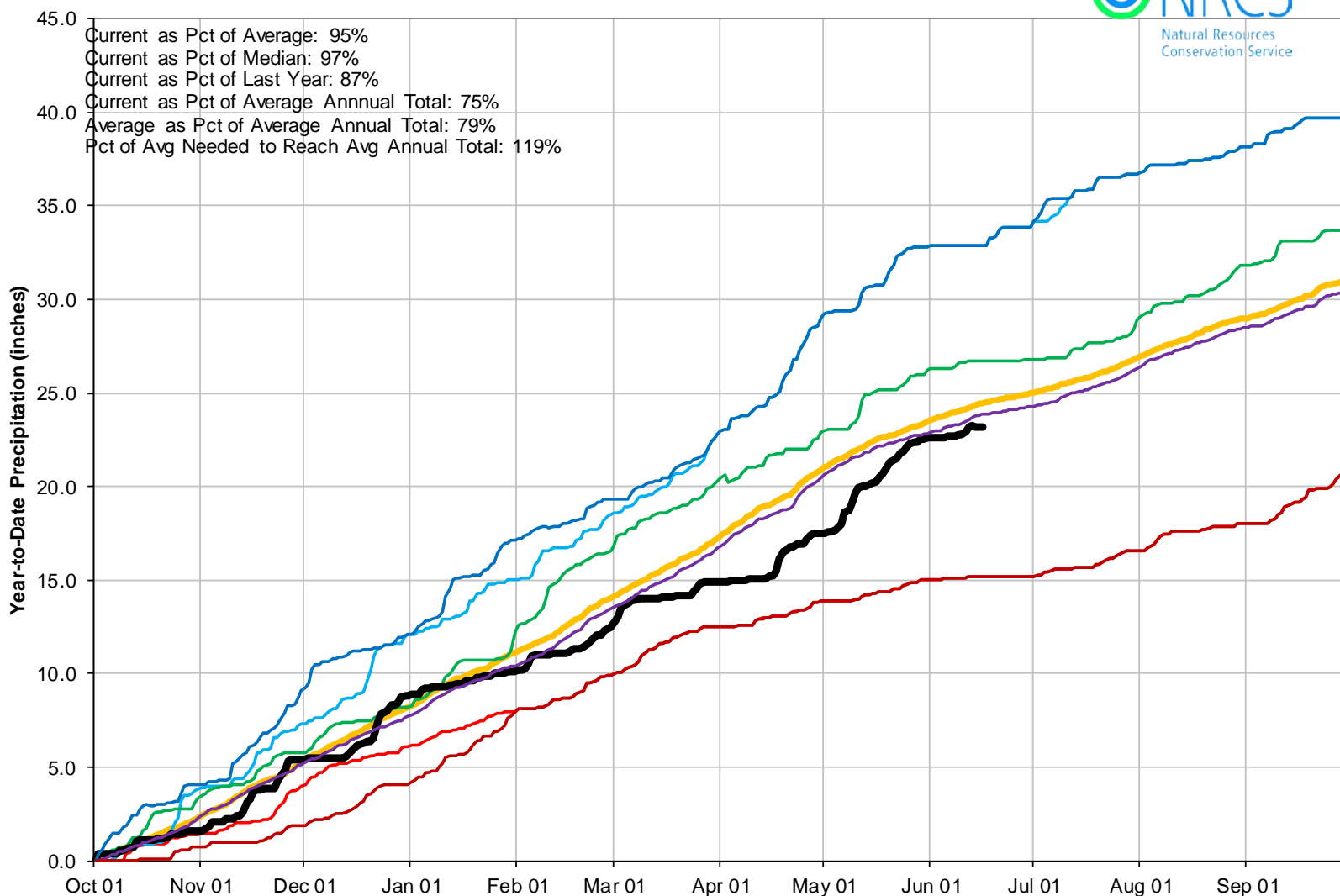
*Based on Provisional SNOTEL data as of Jun 16, 2015*





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

*Based on Provisional SNOTEL data as of Jun 16, 2015*

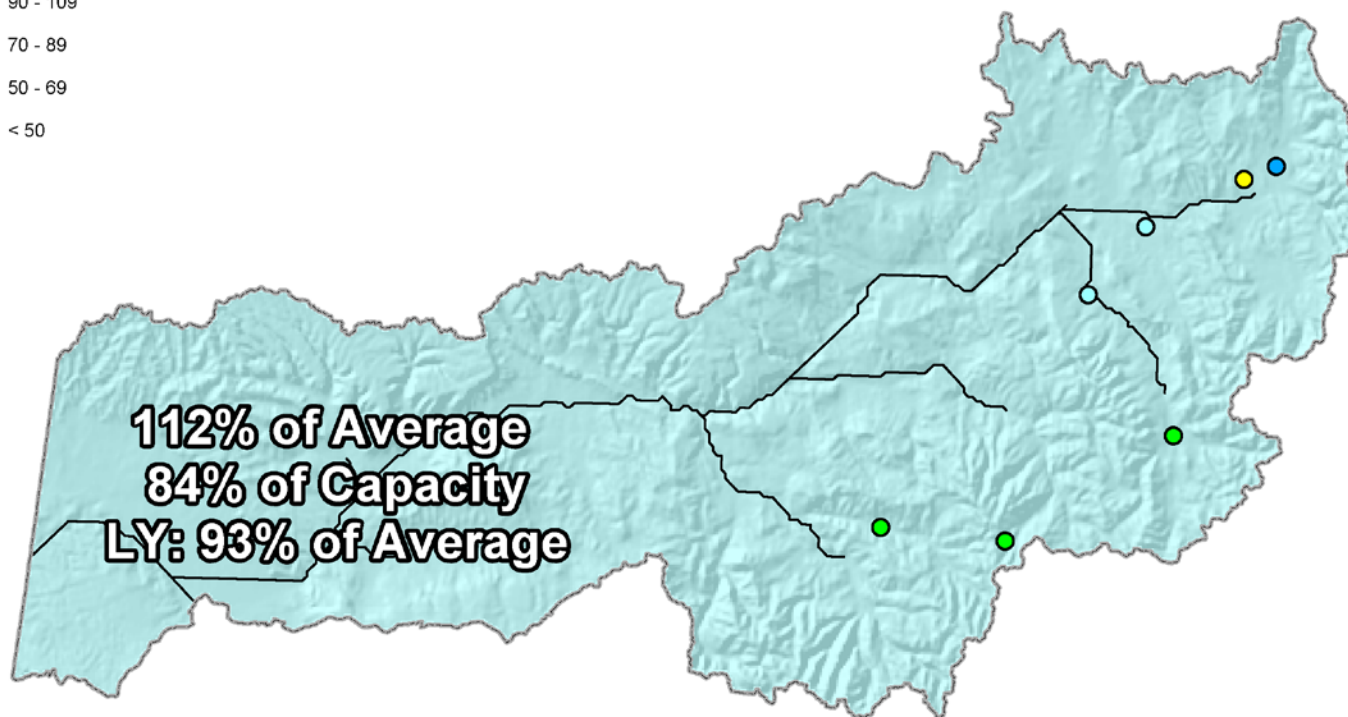


## Colorado River Basin Reservoir Storage Map

### Percent of Average



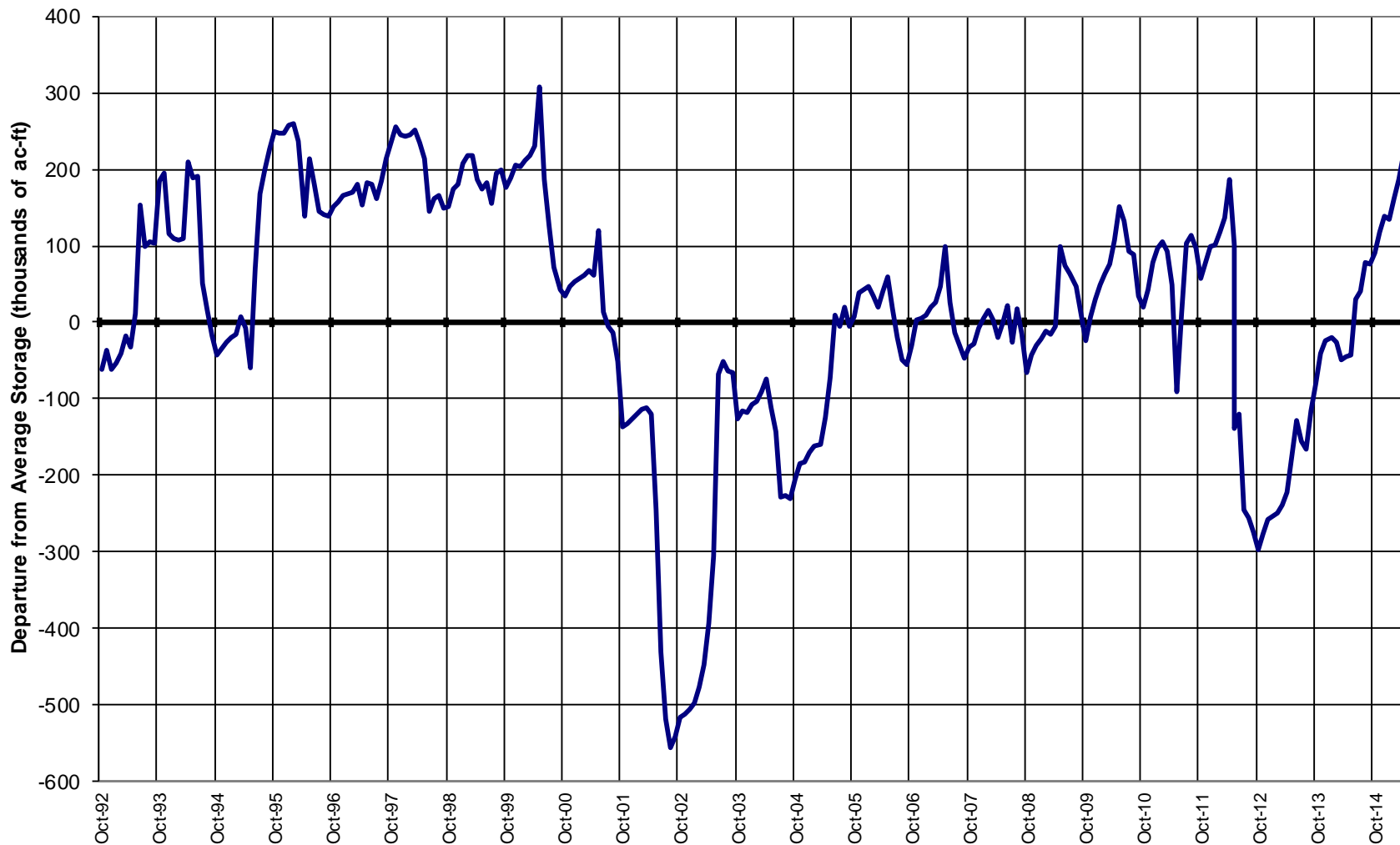
*Provisional Data  
Subject to Revision*



End of May 2015



## COLORADO RIVER BASIN Reservoir Storage Departure from Average

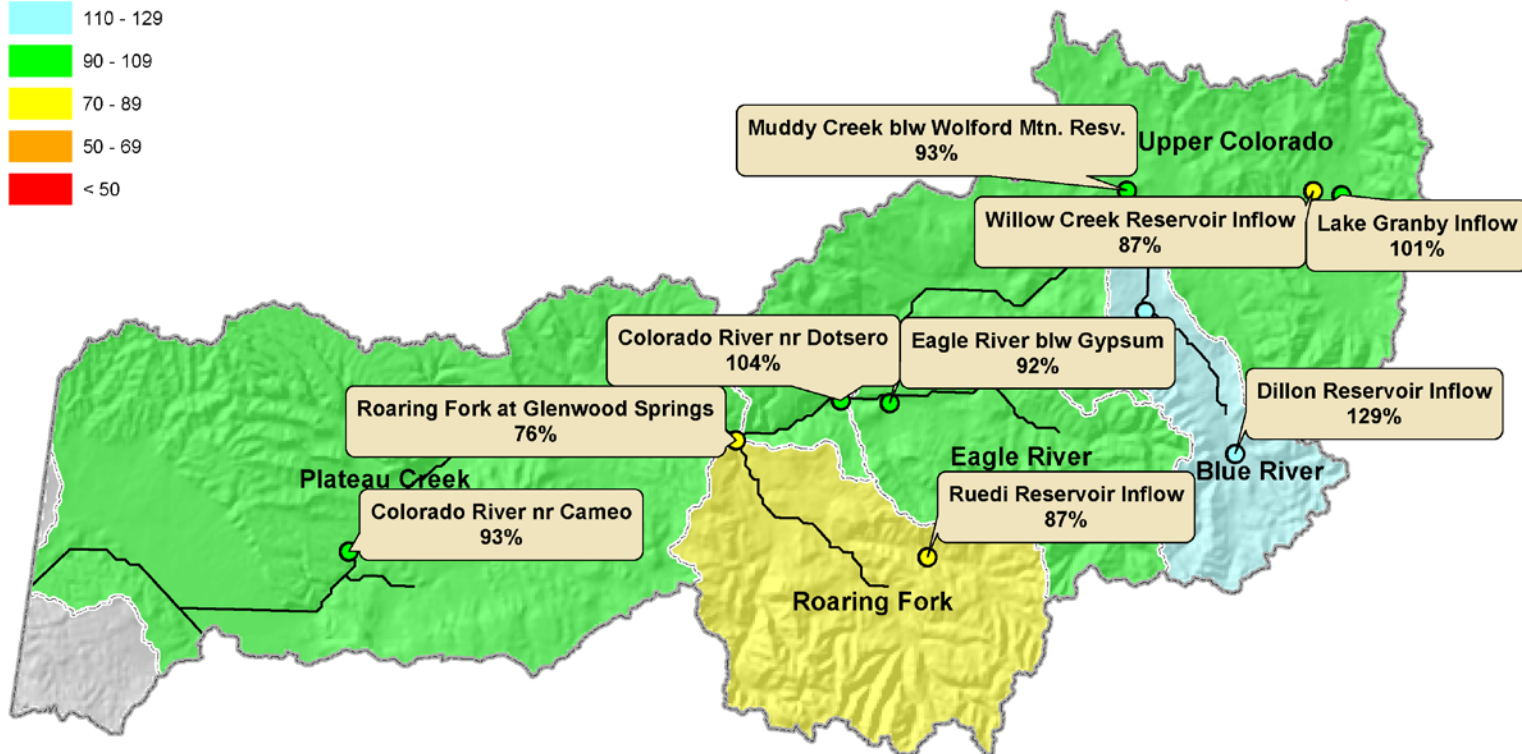


## Colorado River Basin Streamflow Forecast Map

### Percent of Average



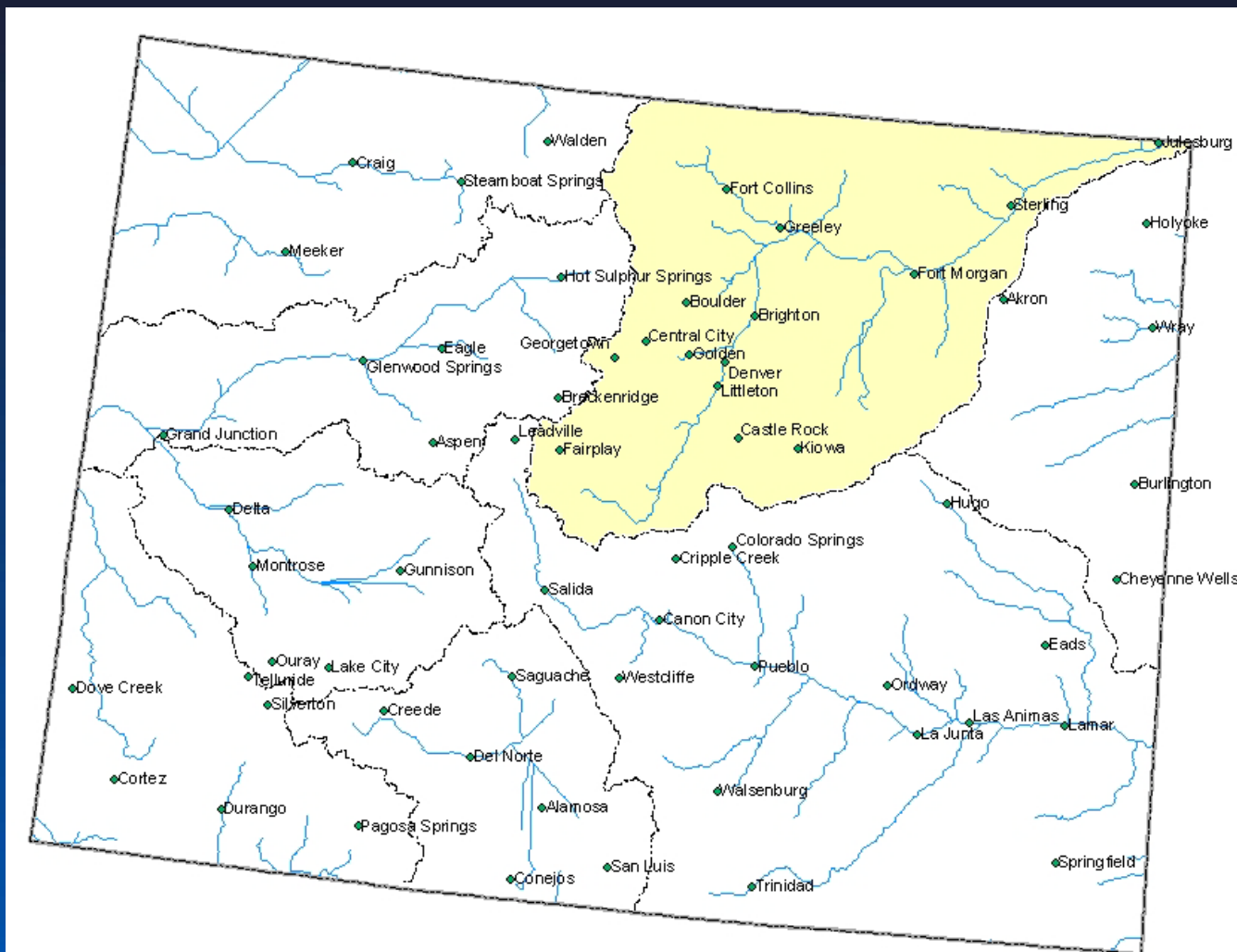
*Provisional Data  
Subject to Revision*



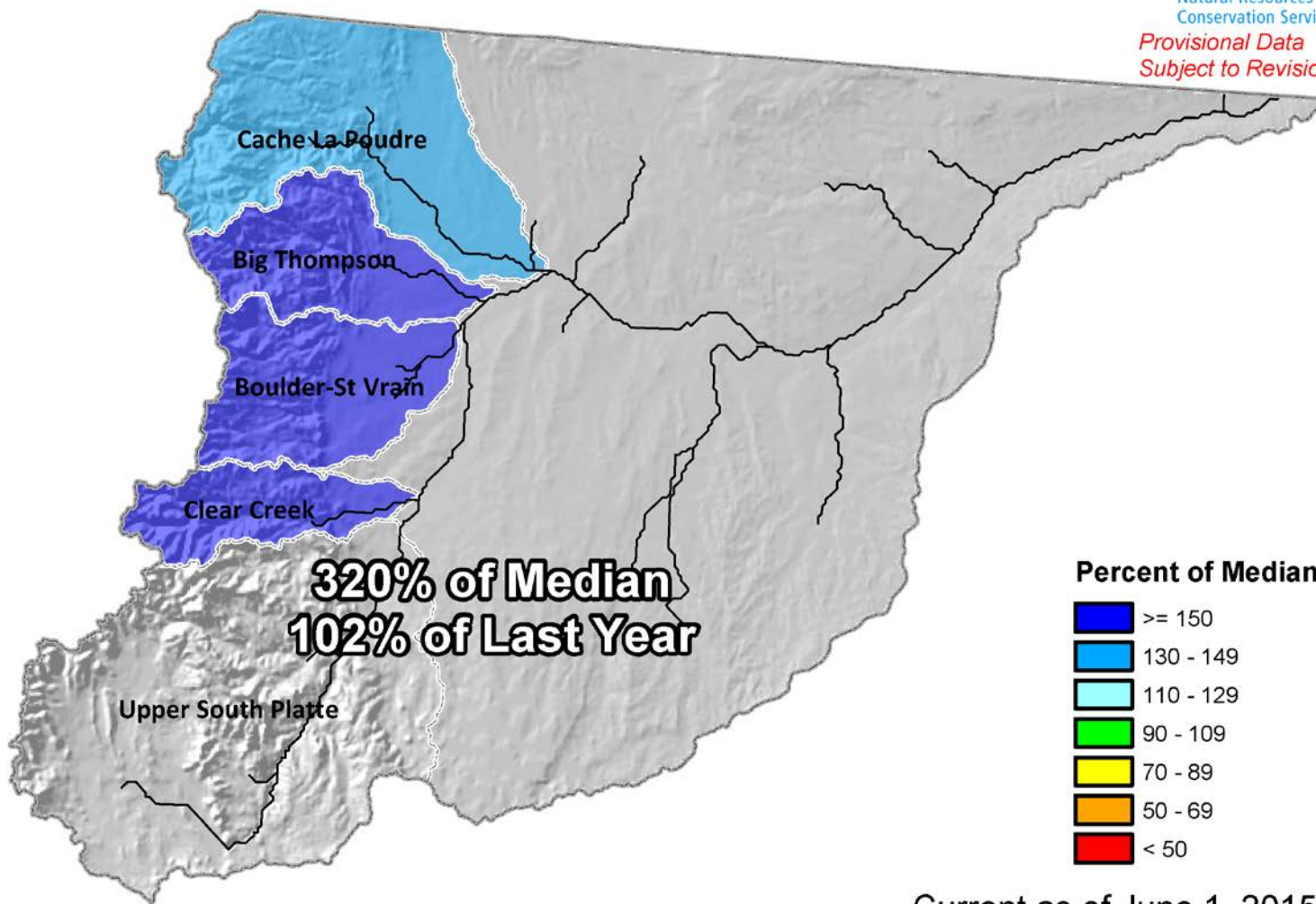
Current as of June 1, 2015



## South Platte River Basin Summary



## South Platte River Basin Snowpack Map

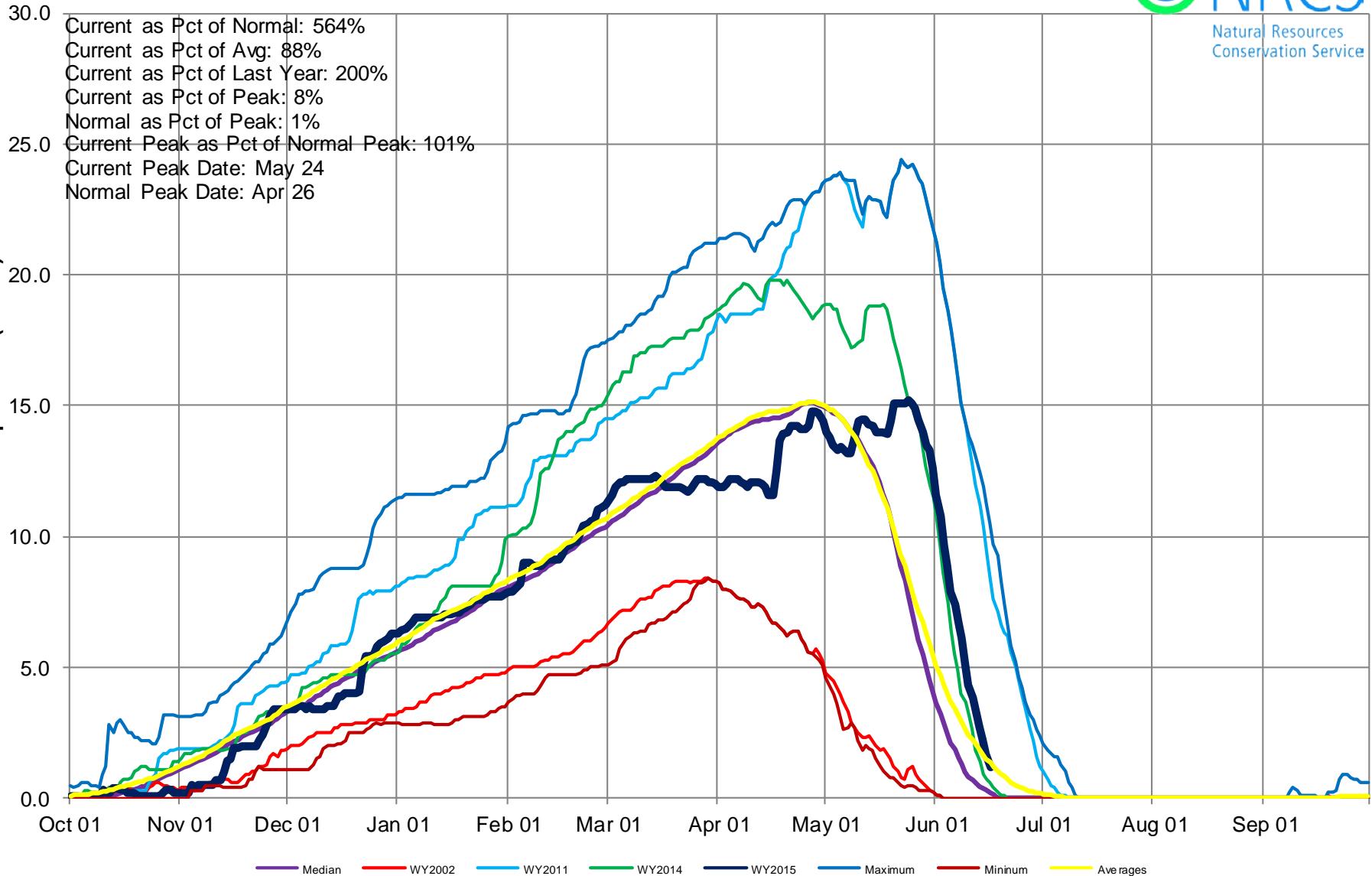


Current as of June 1, 2015



## South Platte River Basin High/Low Snowpack Summary

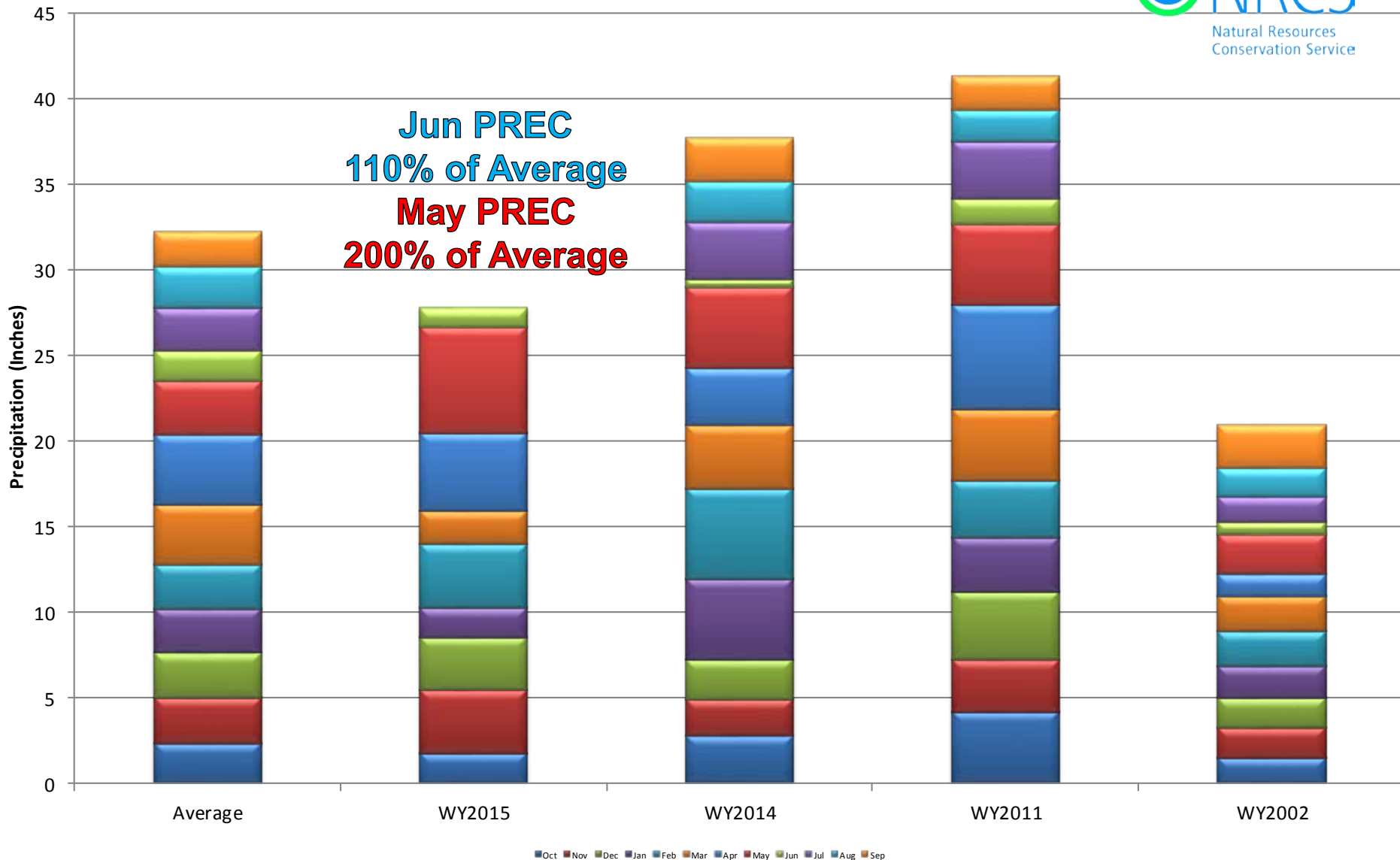
*Based on Provisional SNOTEL data as of Jun 16, 2015*





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

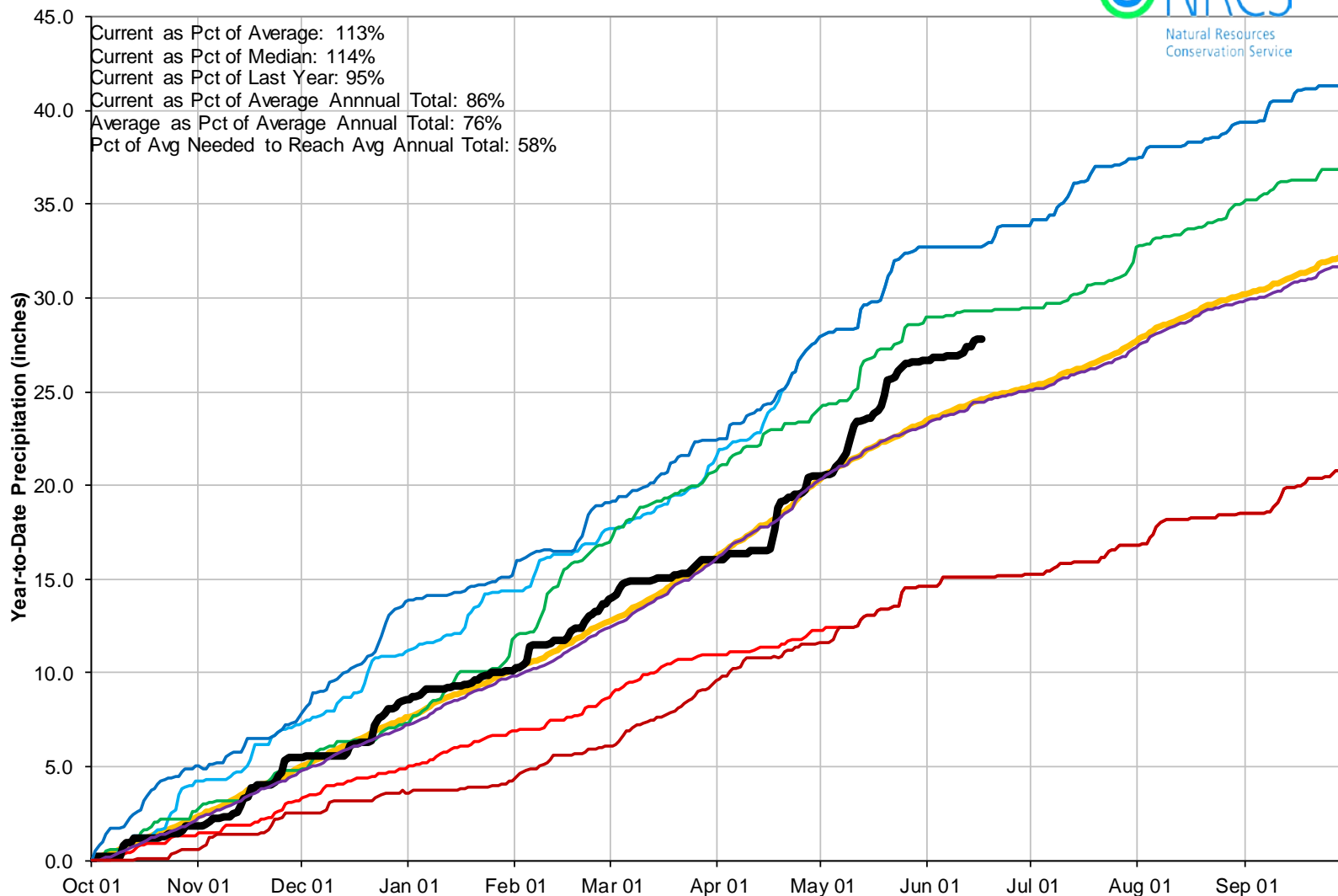
*Based on Provisional SNOTEL data as of Jun 16, 2015*





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

*Based on Provisional SNOTEL data as of Jun 16, 2015*

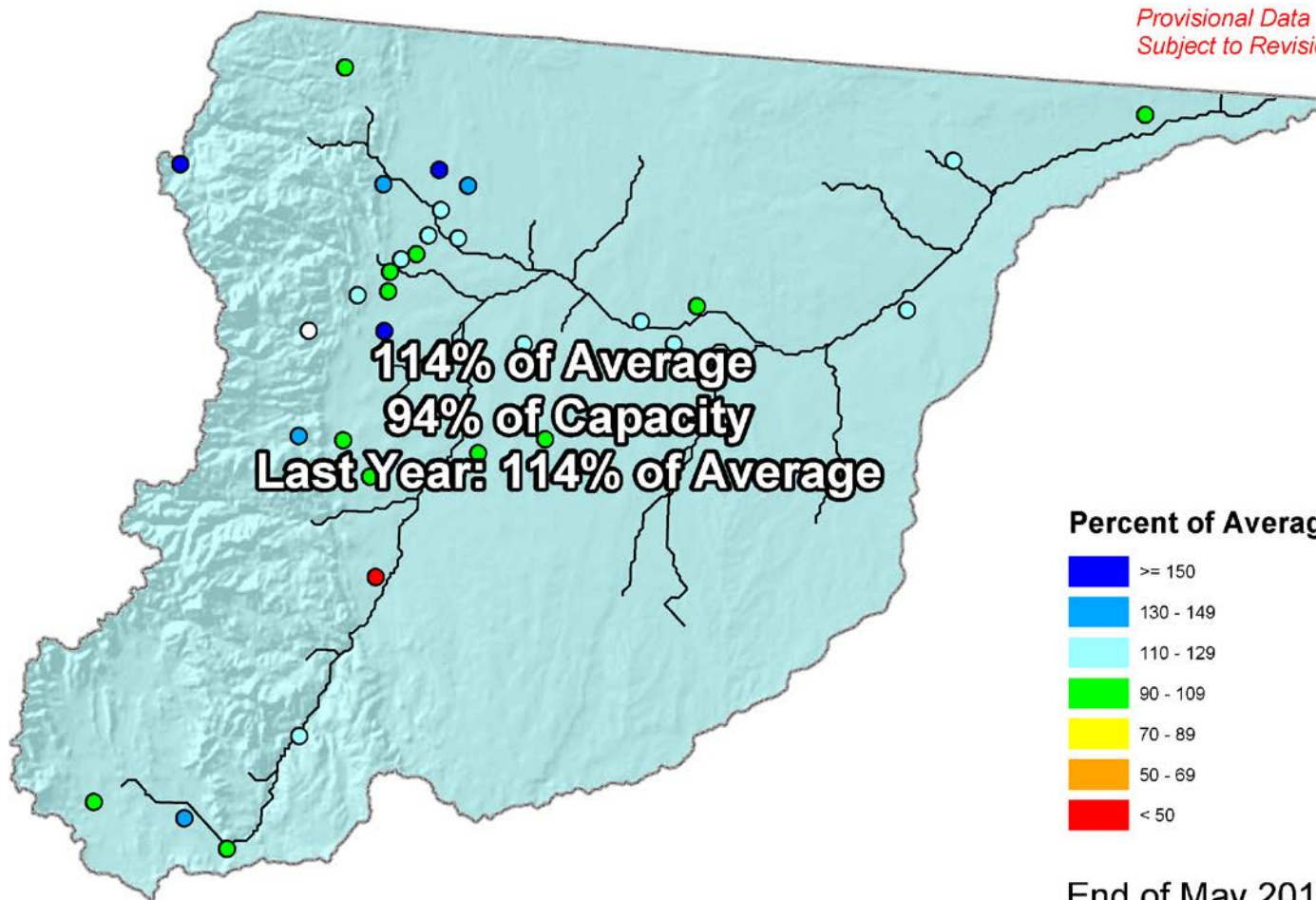




## South Platte River Basin Reservoir Storage Map



*Provisional Data  
Subject to Revision*

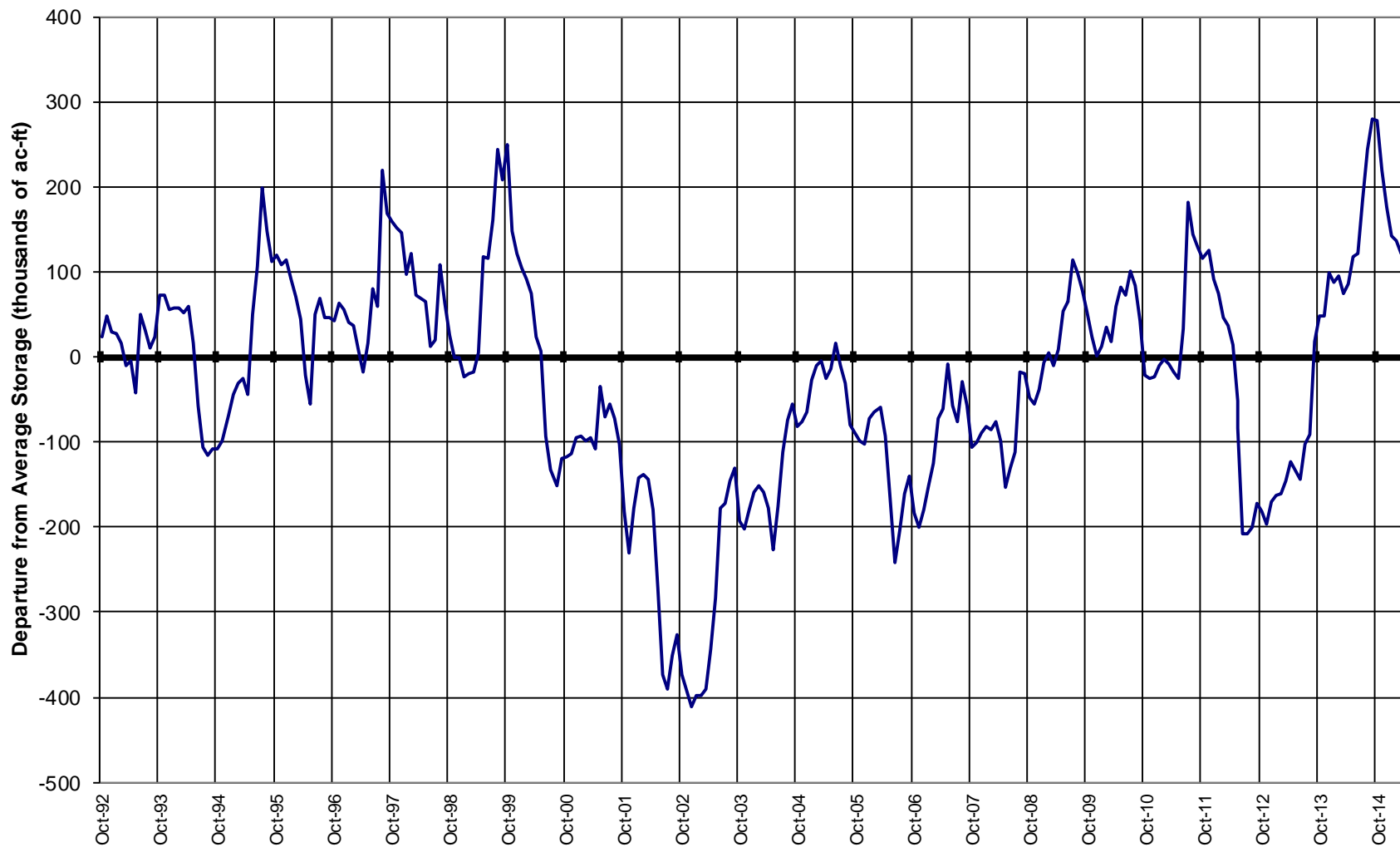


End of May 2015





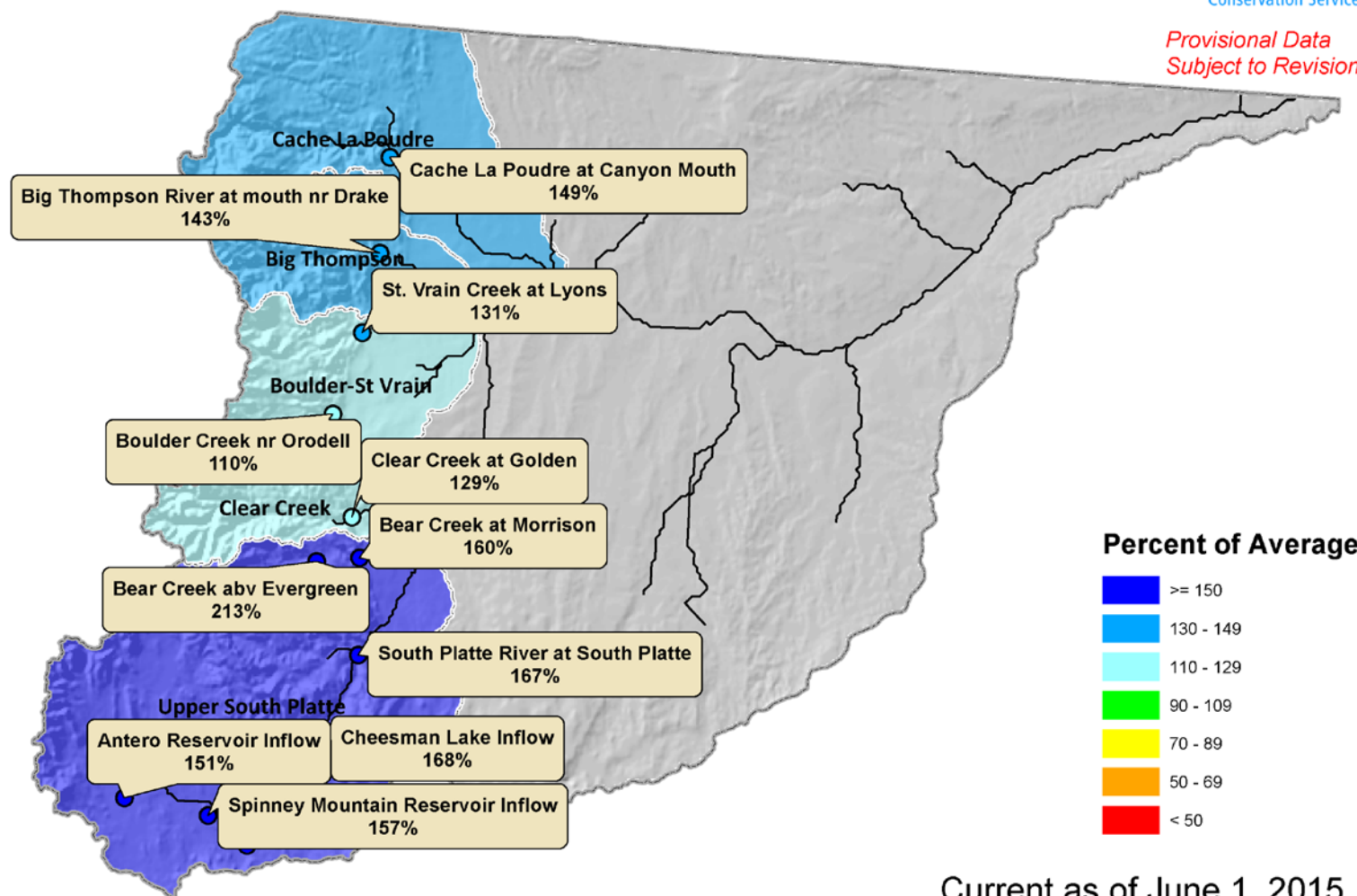
## SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



## South Platte River Basin Streamflow Forecast Map



*Provisional Data  
Subject to Revision*



Current as of June 1, 2015

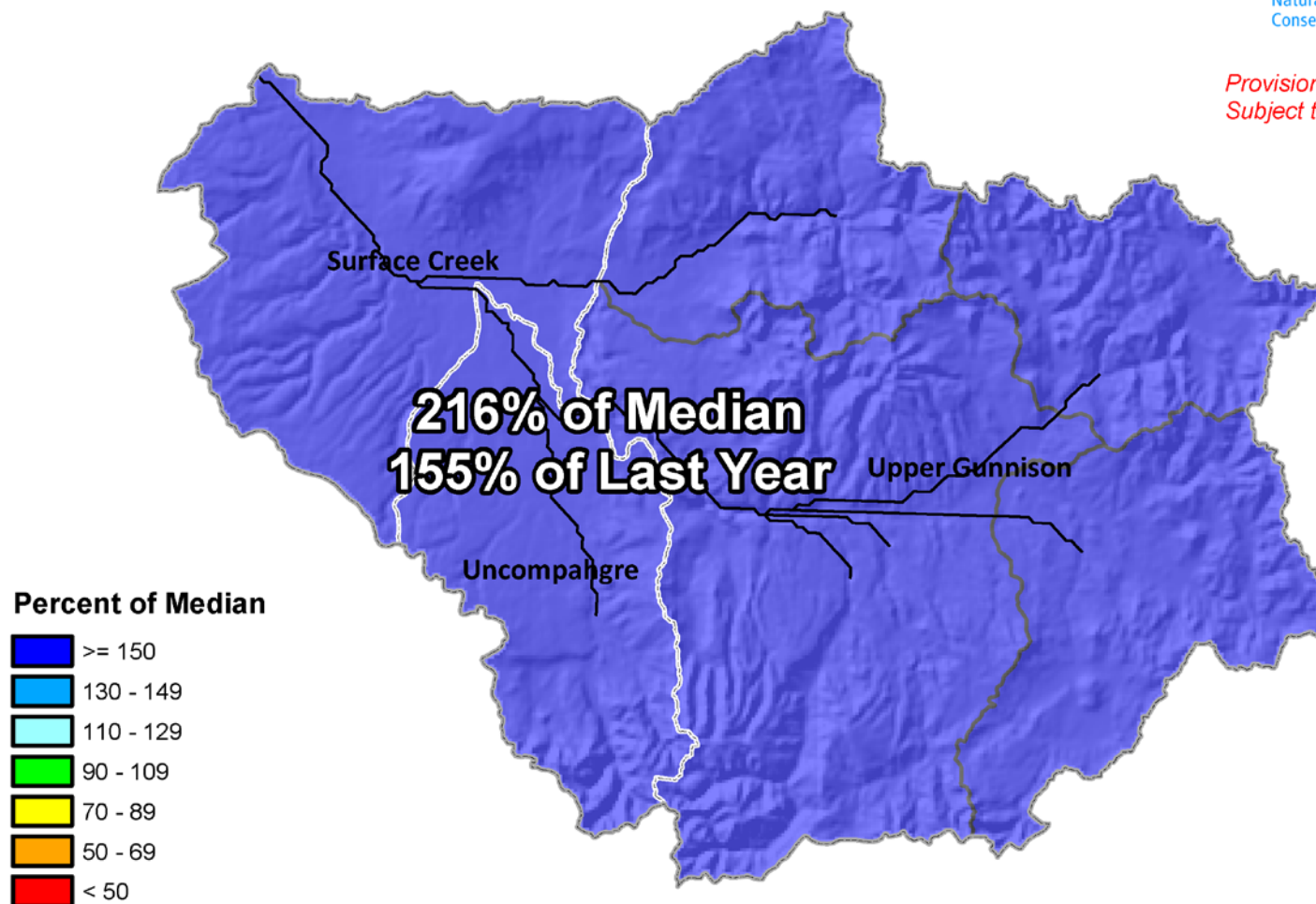
## Gunnison River Basin Summary



## Gunnison River Basin Snowpack Map



*Provisional Data  
Subject to Revision*



Current as of June 1, 2015

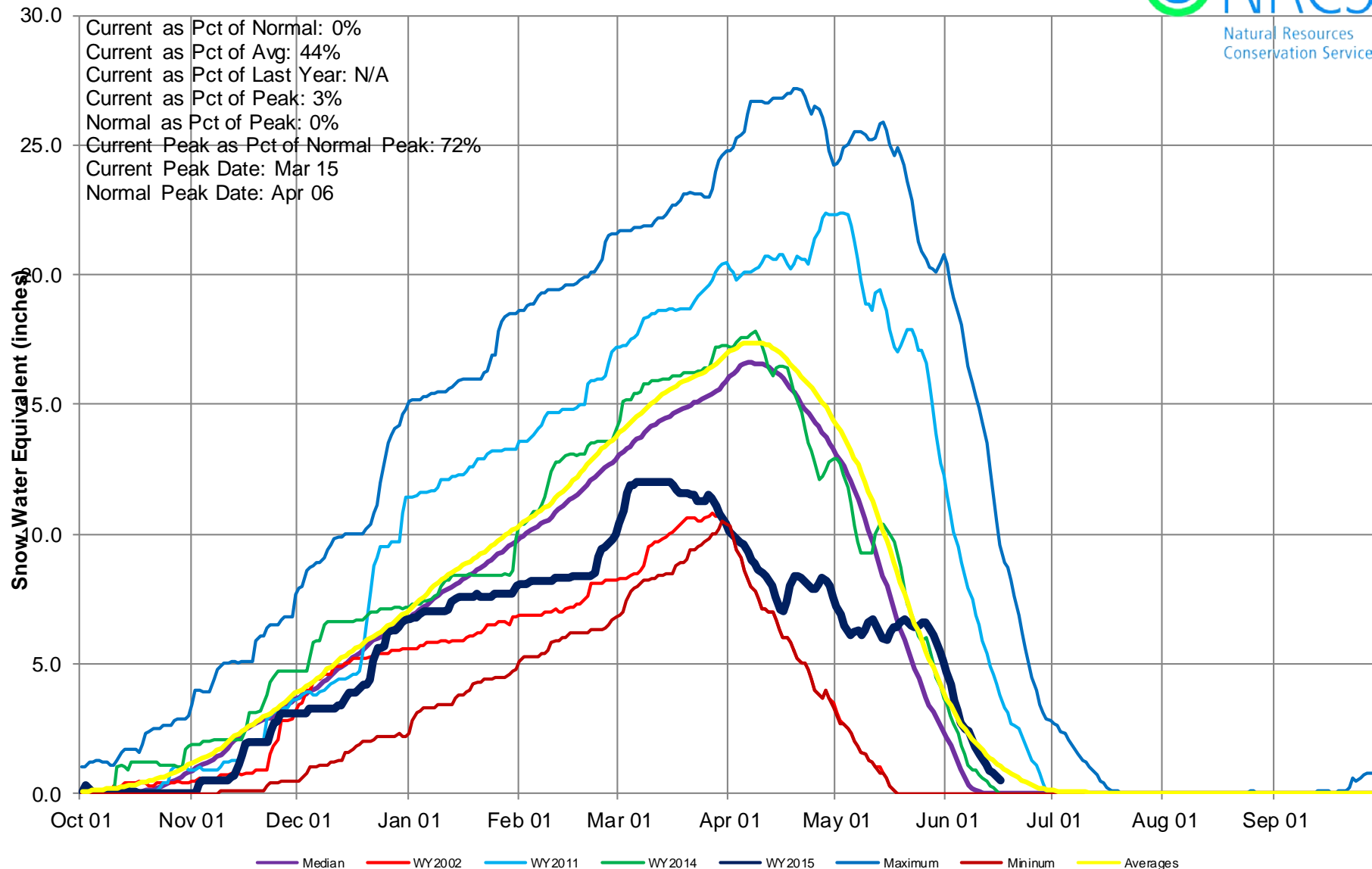


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# Colorado Snow Surveys

## Gunnison River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jun 16, 2015*



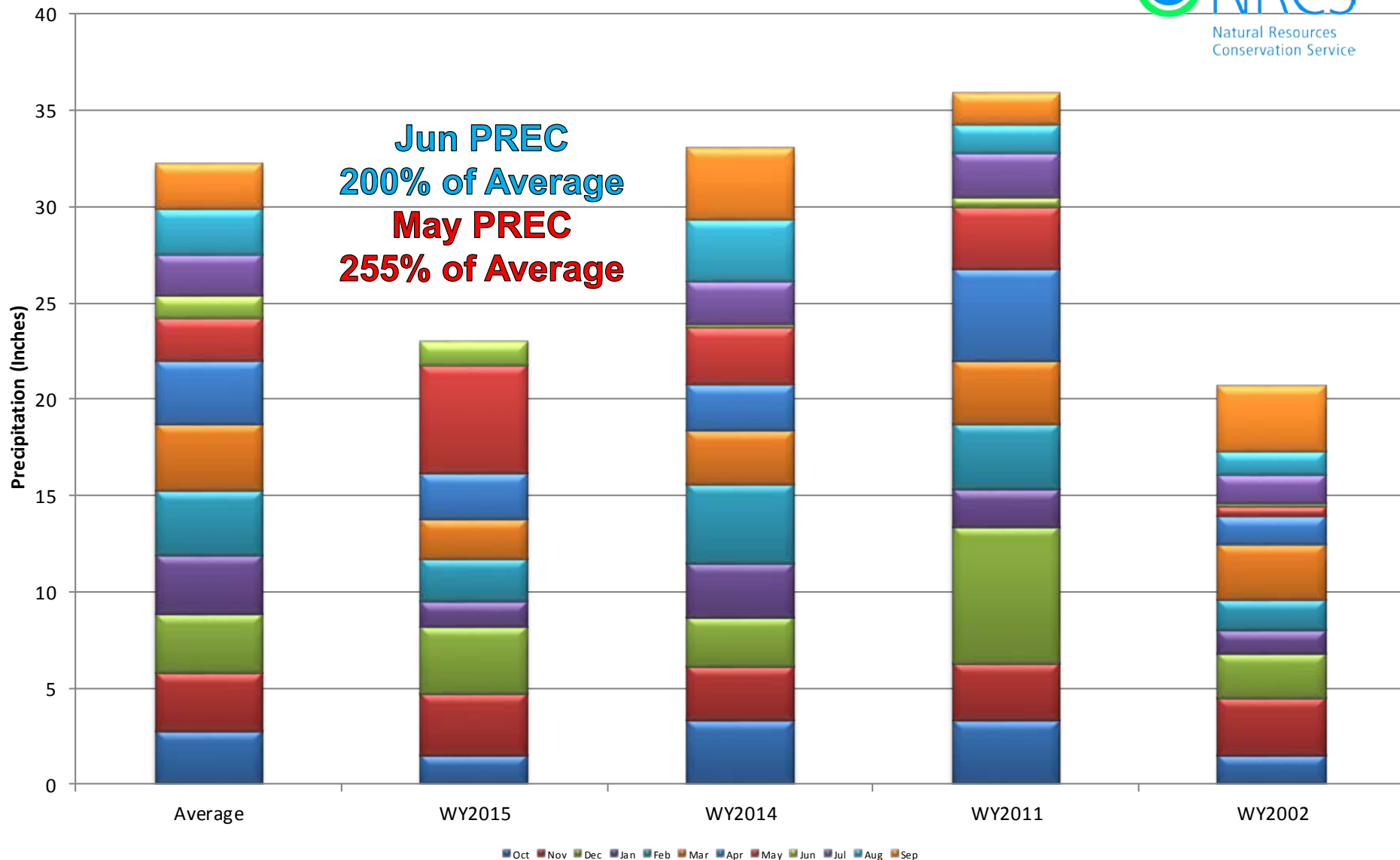


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# Colorado Snow Surveys

## Gunnison River Basin High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jun 16, 2015*





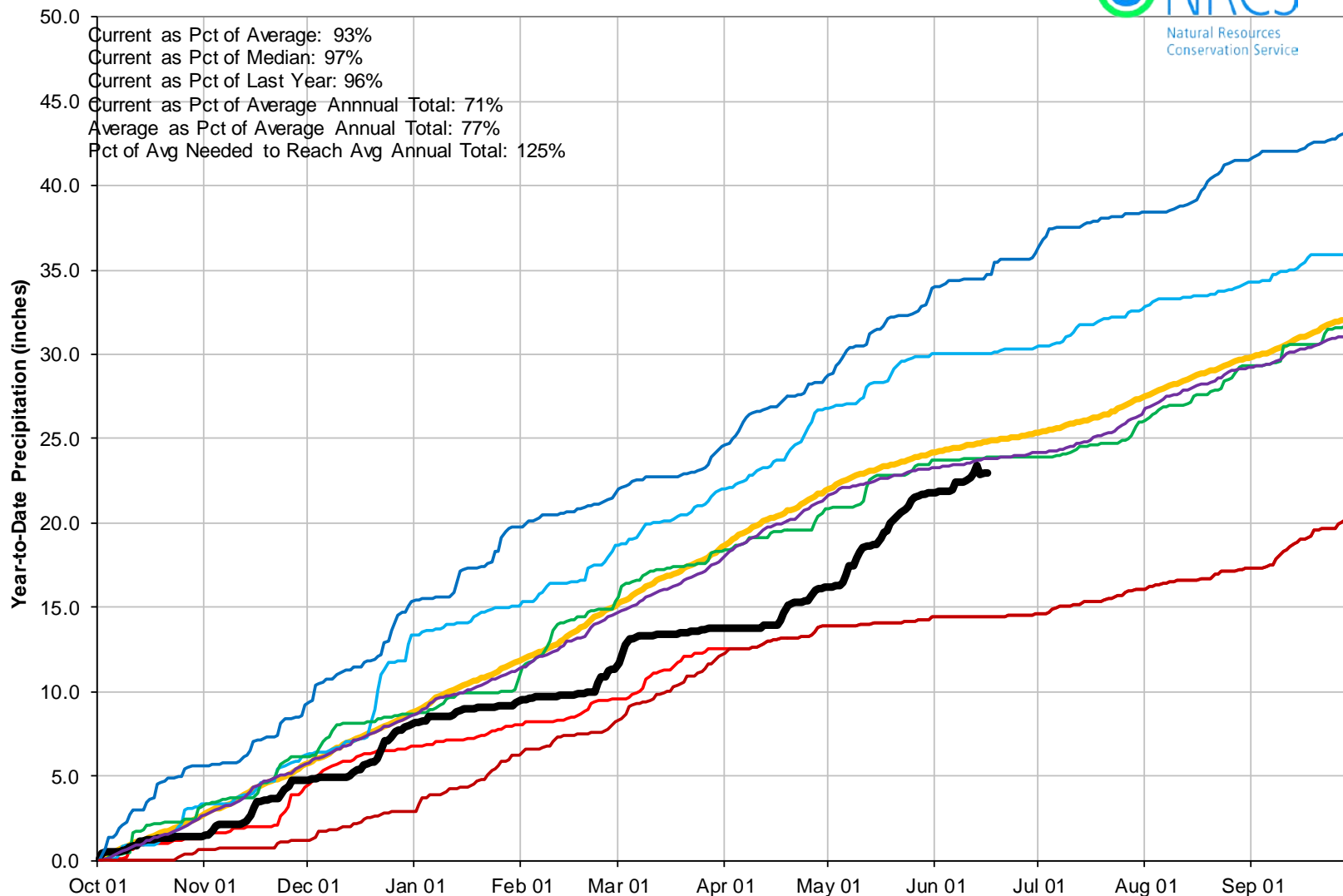


## Gunnison River Basin High/Low Year-to-Date Precipitation Summary

*Based on Provisional SNOTEL data as of Jun 16, 2015*



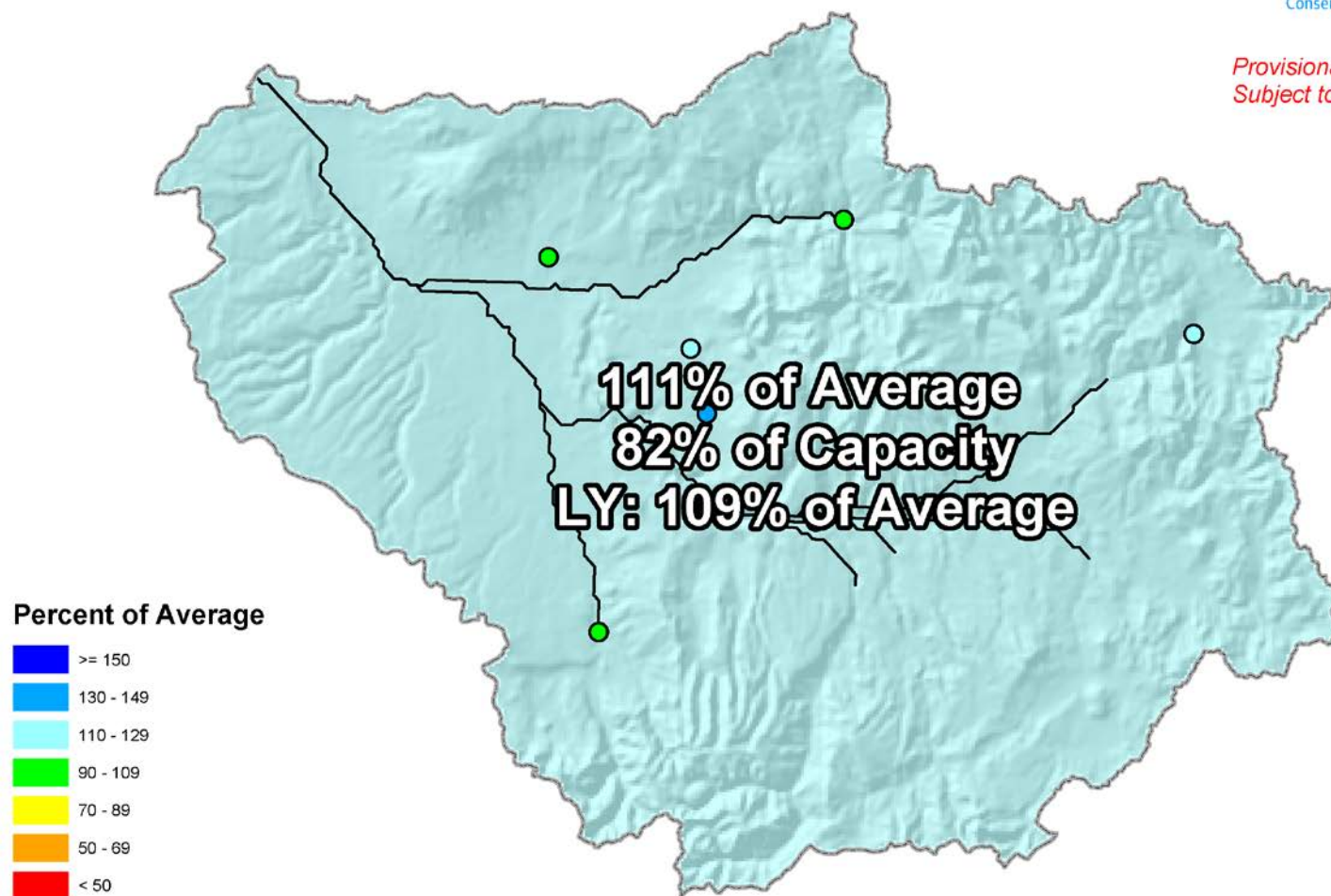
Natural Resources  
Conservation Service



## Gunnison River Basin Reservoir Storage Map



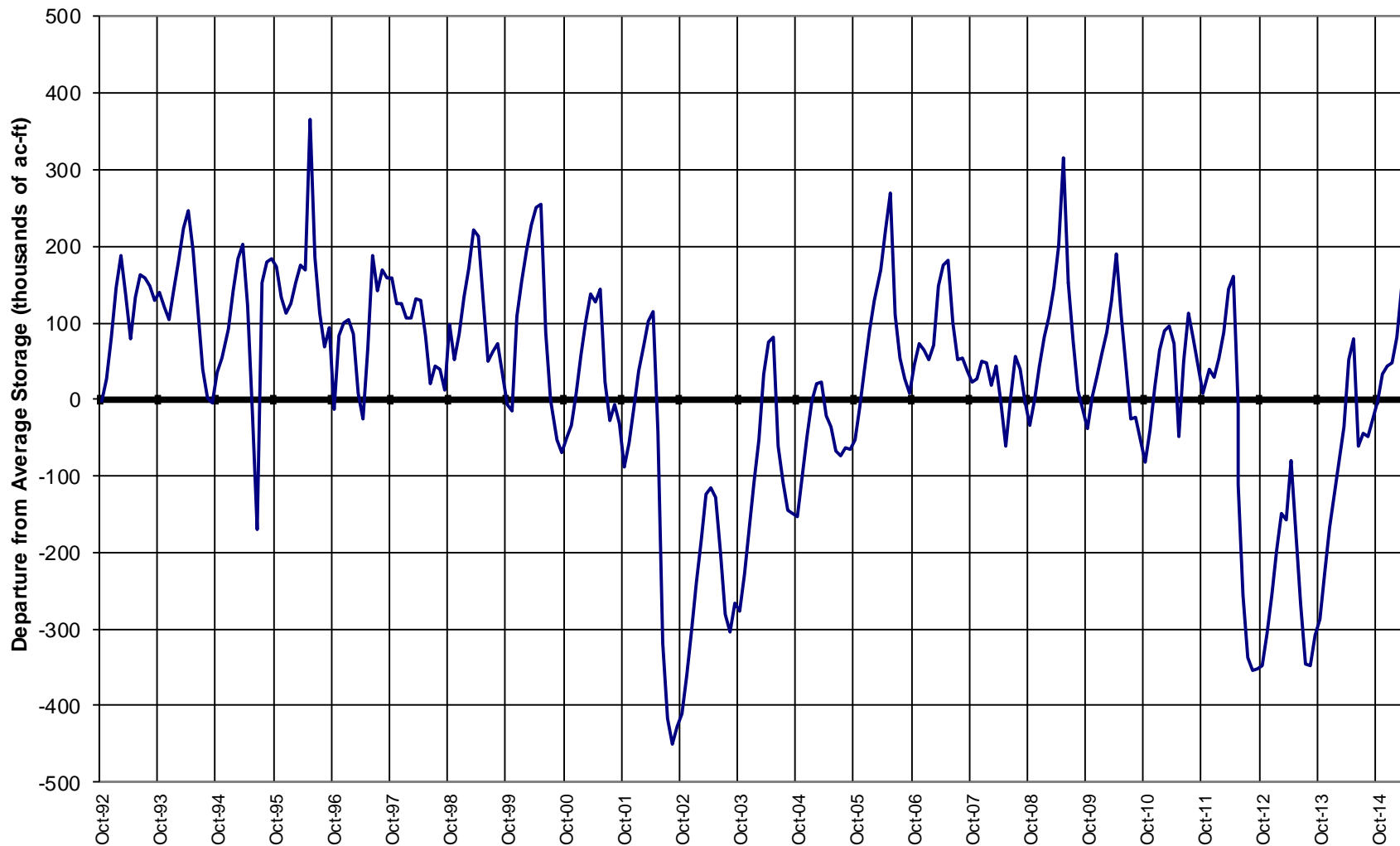
*Provisional Data  
Subject to Revision*



End of May 2015



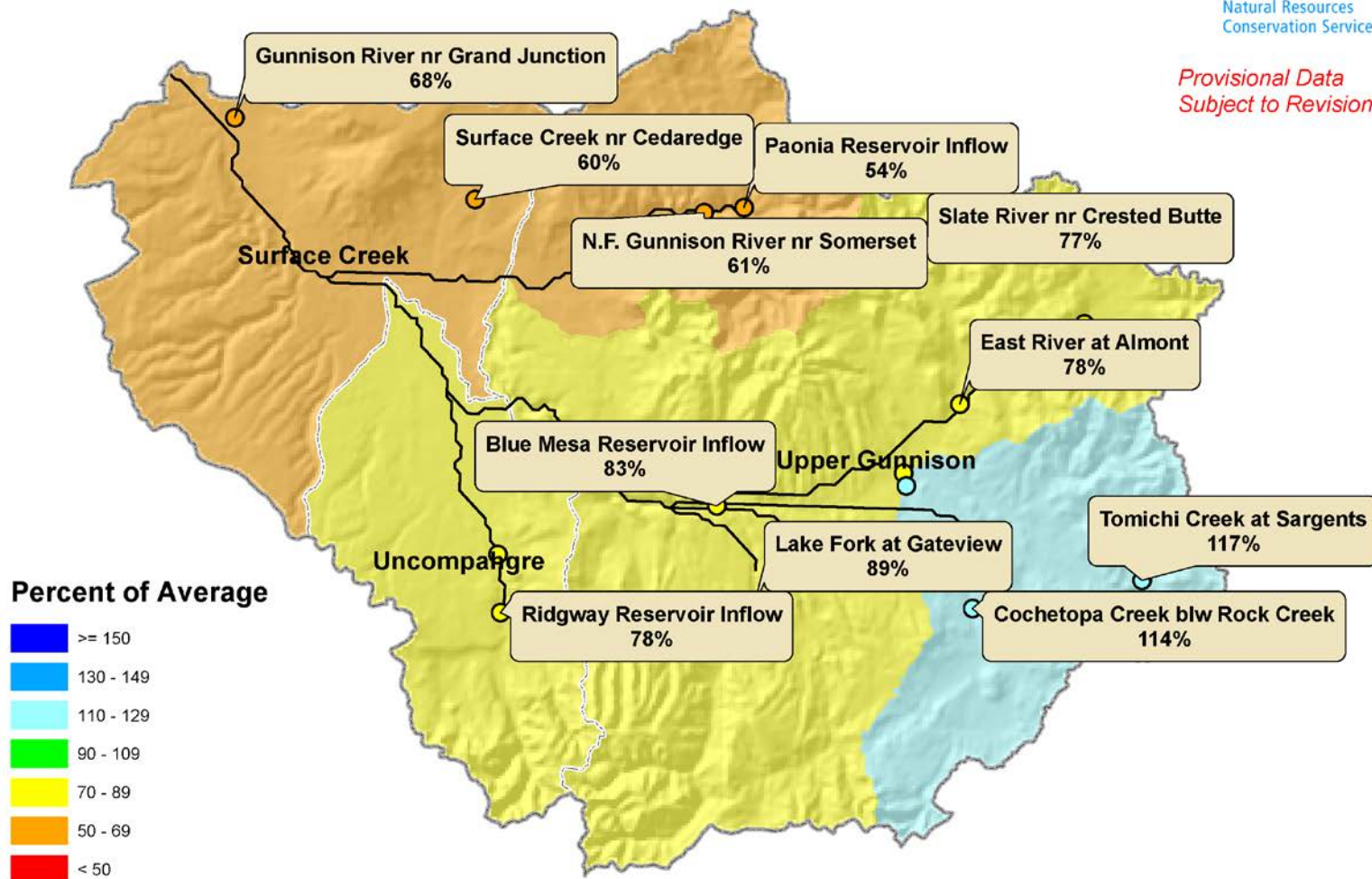
## GUNNISON RIVER BASIN Reservoir Storage Departure from Average



## Gunnison River Basin Streamflow Forecast Map



*Provisional Data  
Subject to Revision*



Current as of June 1, 2015

## San Miguel, Dolores, Animas & San Juan River Basins Summary

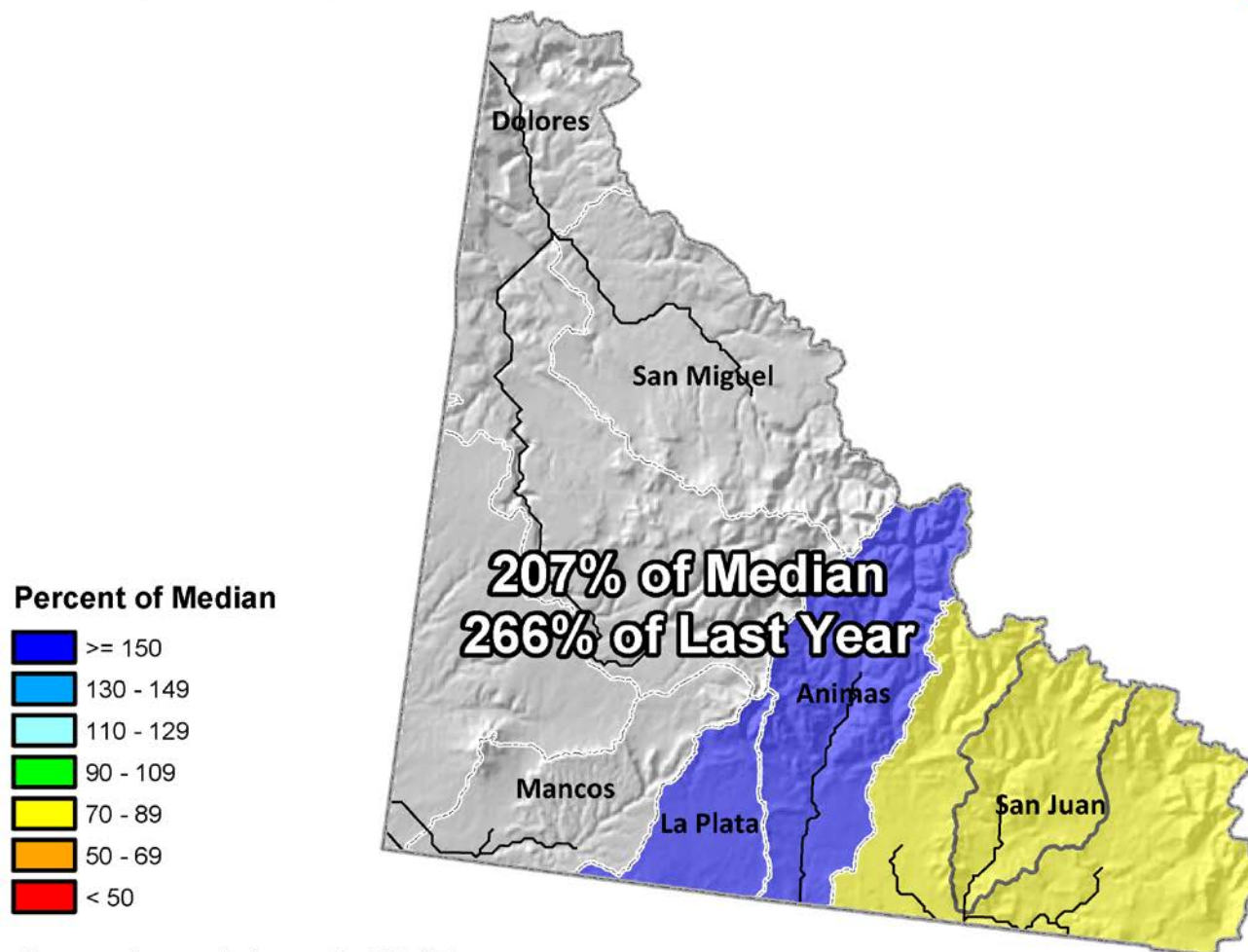




## San Miguel, Dolores, Animas and San Juan River Basins Snowpack Map



*Provisional Data  
Subject to Revision*



Current as of June 1, 2015



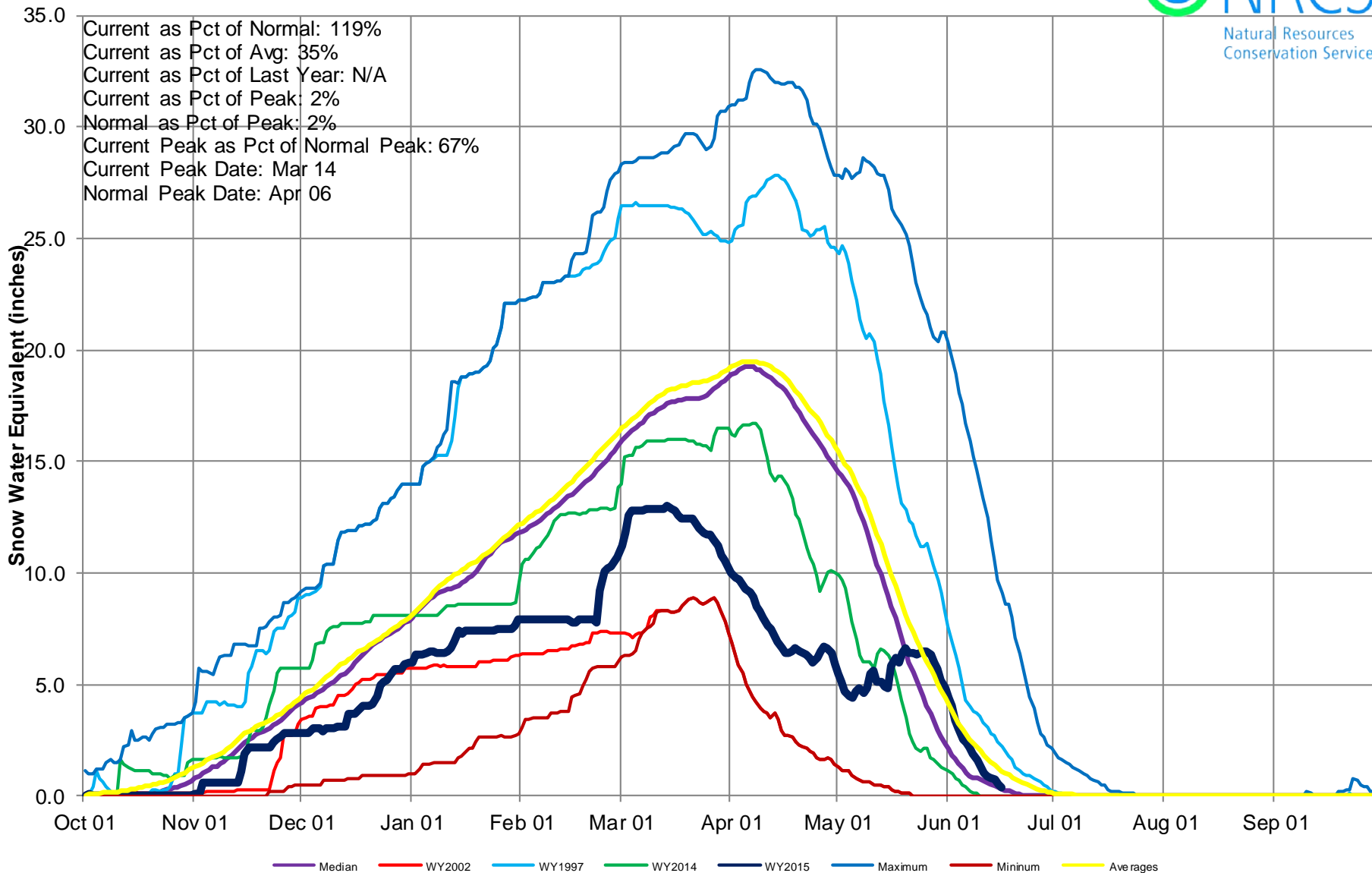


## San Miguel, Dolores, Animas and San Juan River Basins High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jun 16, 2015*



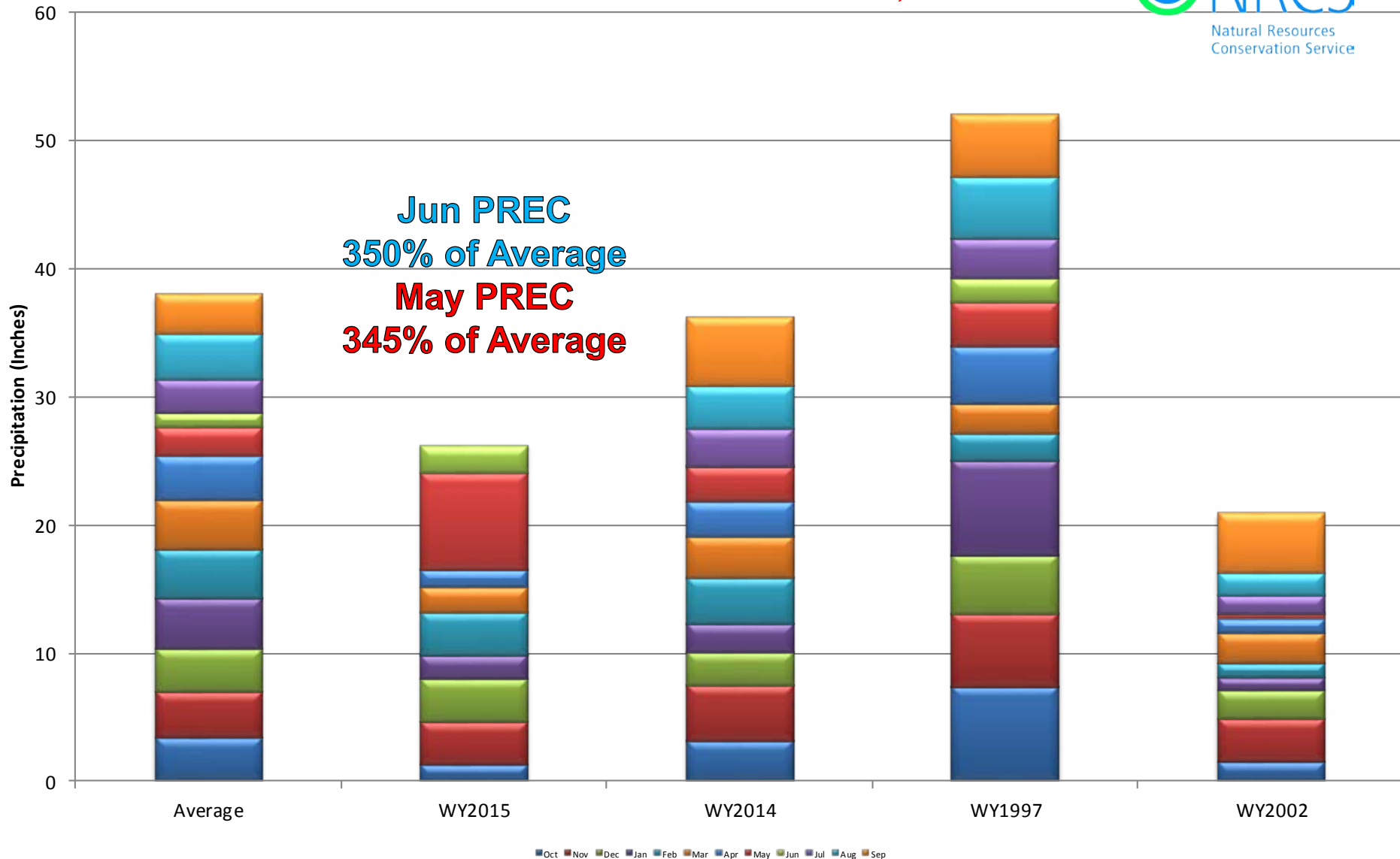
Current as Pct of Normal: 119%  
Current as Pct of Avg: 35%  
Current as Pct of Last Year: N/A  
Current as Pct of Peak: 2%  
Normal as Pct of Peak: 2%  
Current Peak as Pct of Normal Peak: 67%  
Current Peak Date: Mar 14  
Normal Peak Date: Apr 06





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

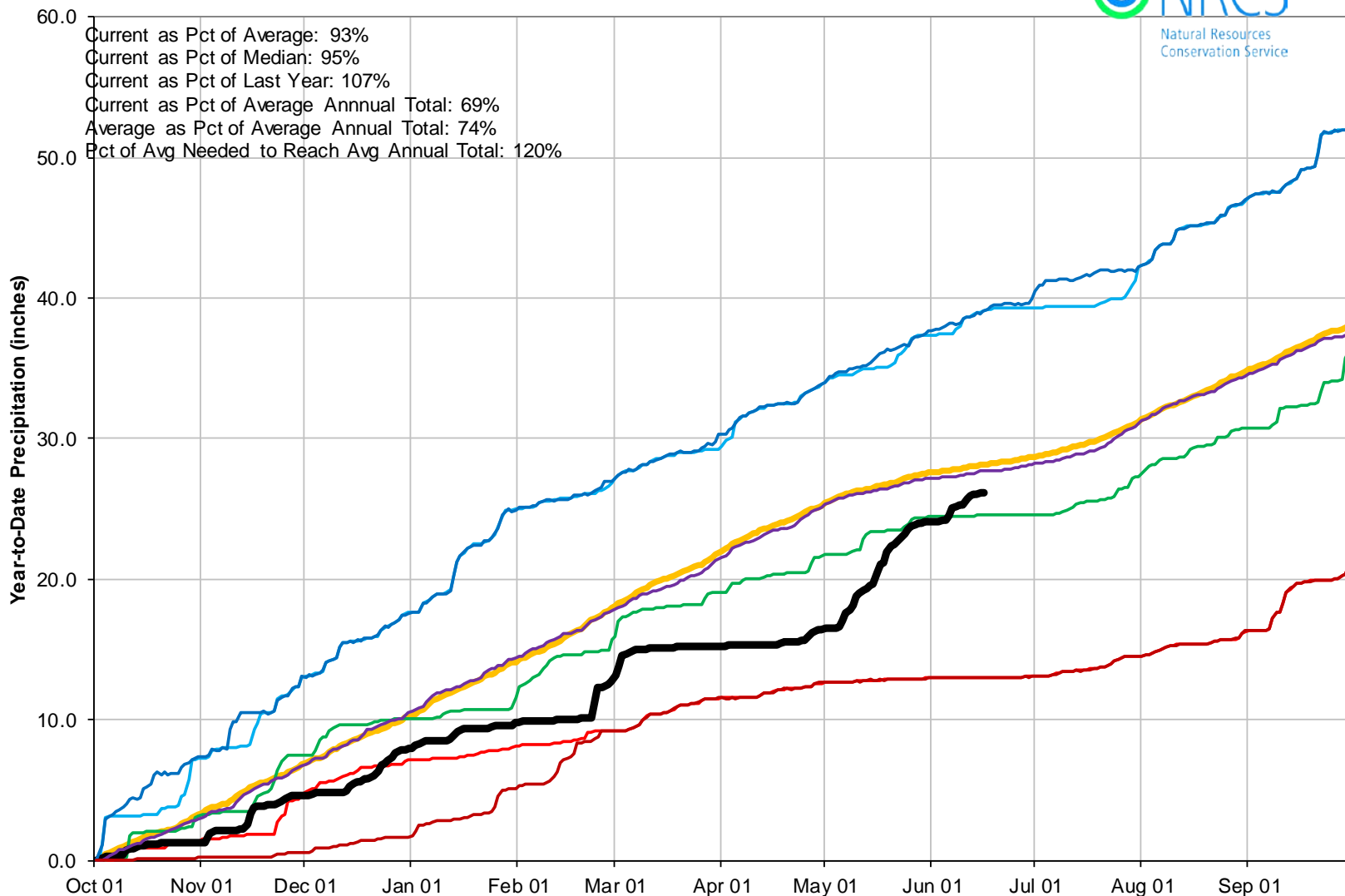
*Based on Provisional SNOTEL data as of Jun 16, 2015*





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

*Based on Provisional SNOTEL data as of Jun 16, 2015*

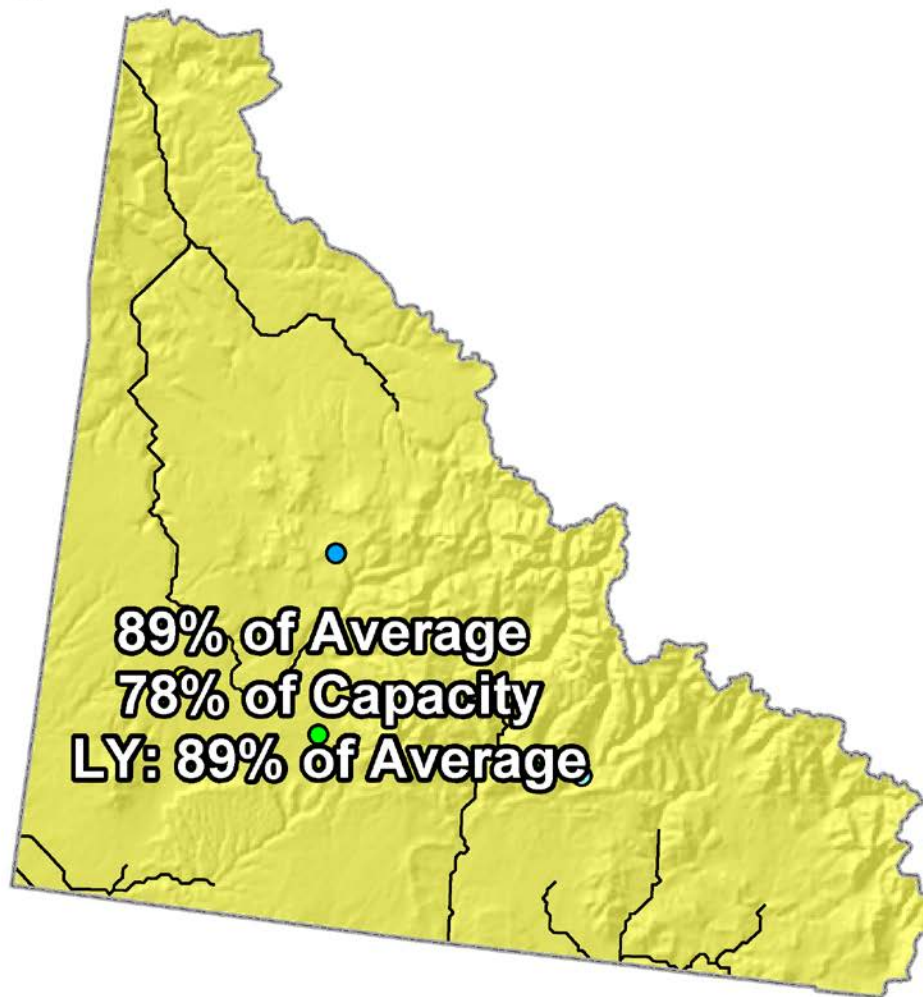


## San Miguel, Dolores, Animas and San Juan River Basins Reservoir Storage Map



*Provisional Data  
Subject to Revision*

### Percent of Average

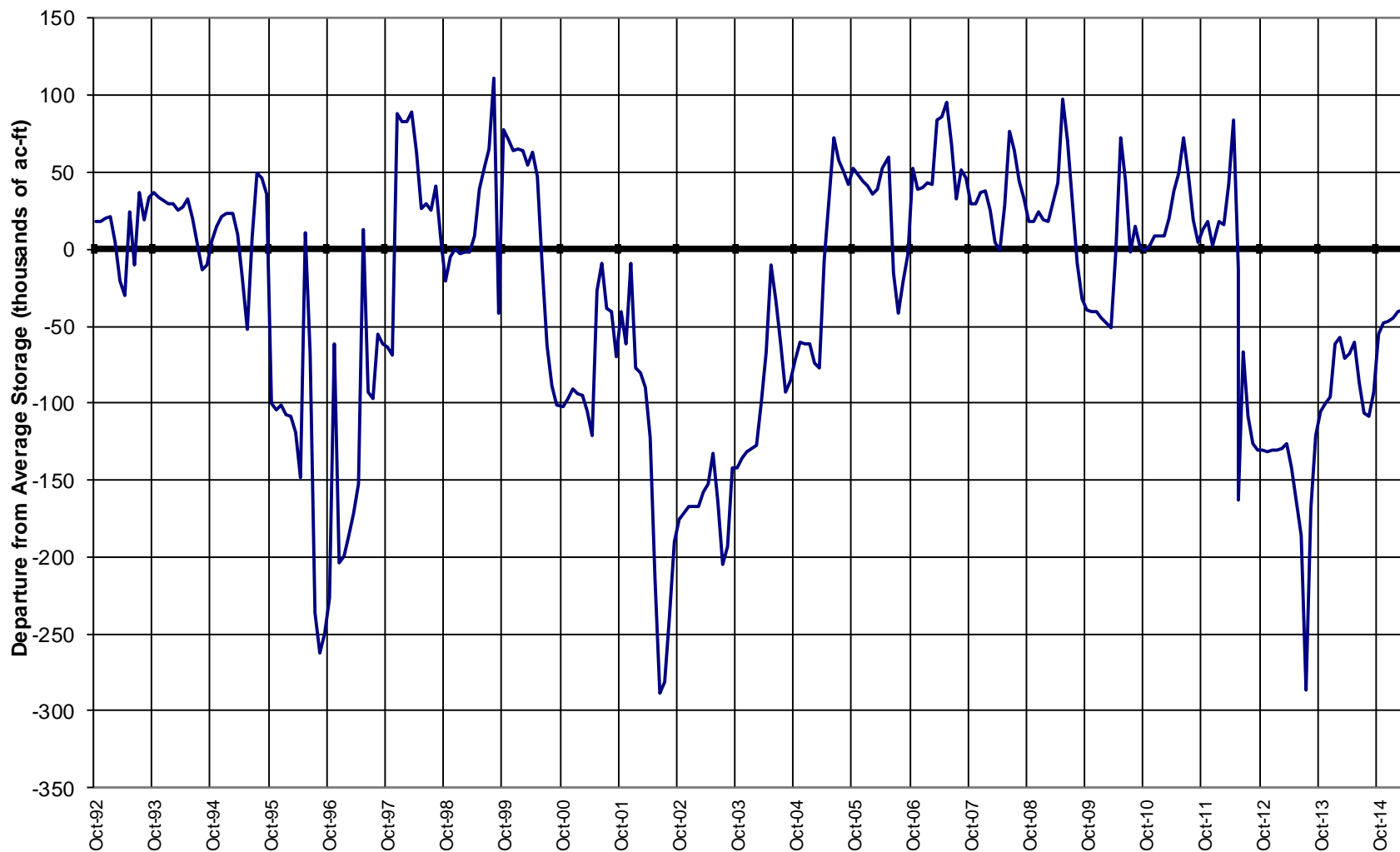


End of May 2015



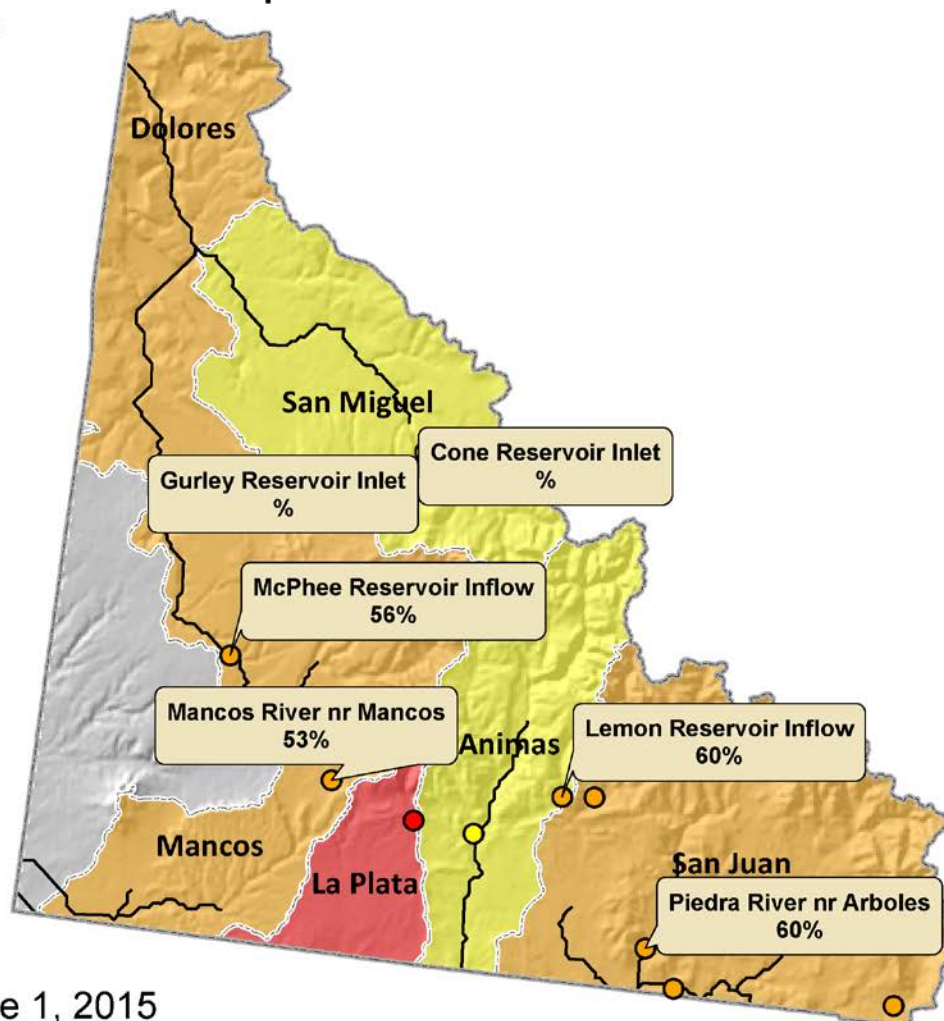
## SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

Reservoir Storage  
Departure from Average



## San Miguel, Dolores, Animas and San Juan River Basins Streamflow Forecast Map

Percent of Average

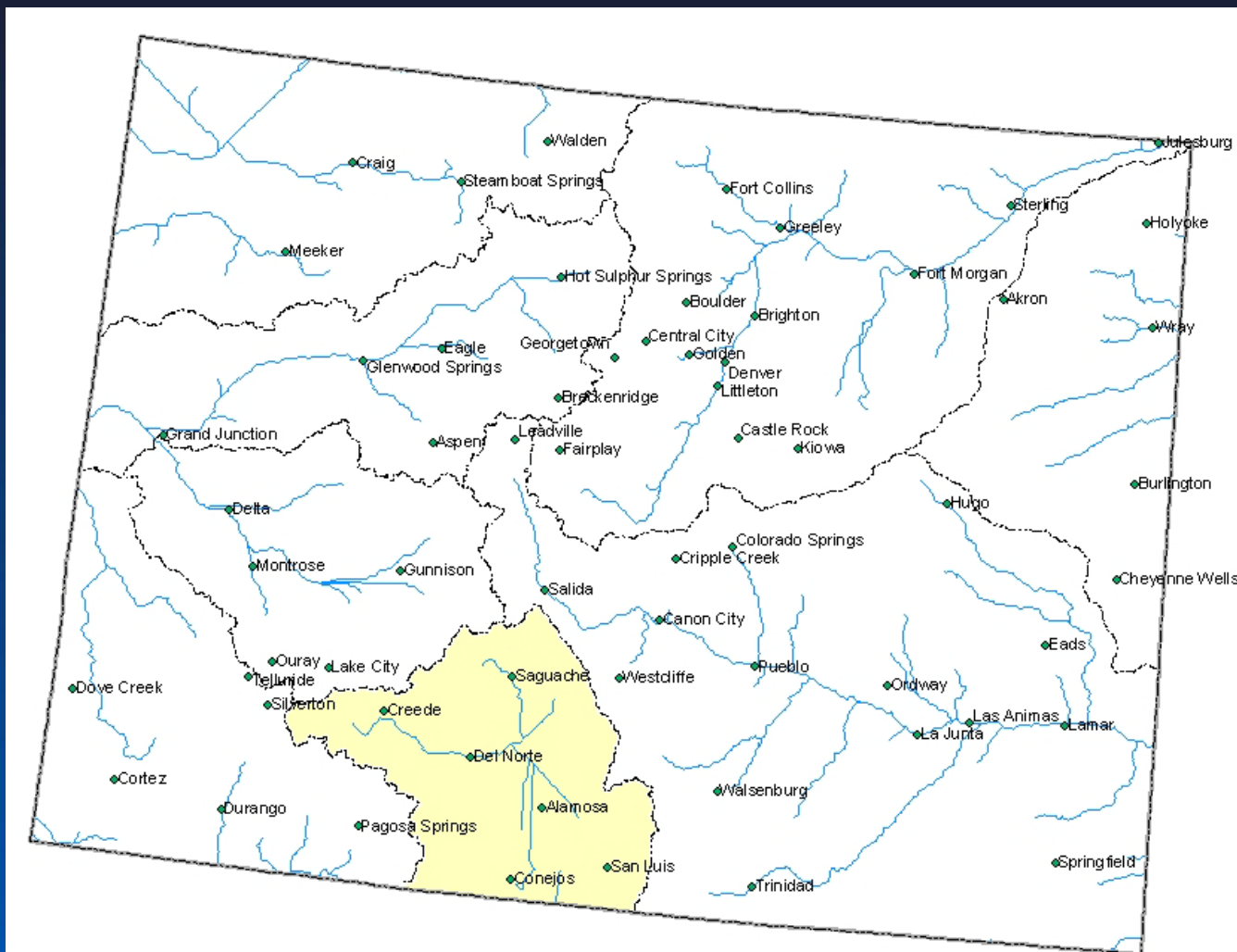


*Provisional Data  
Subject to Revision*

Current as of June 1, 2015



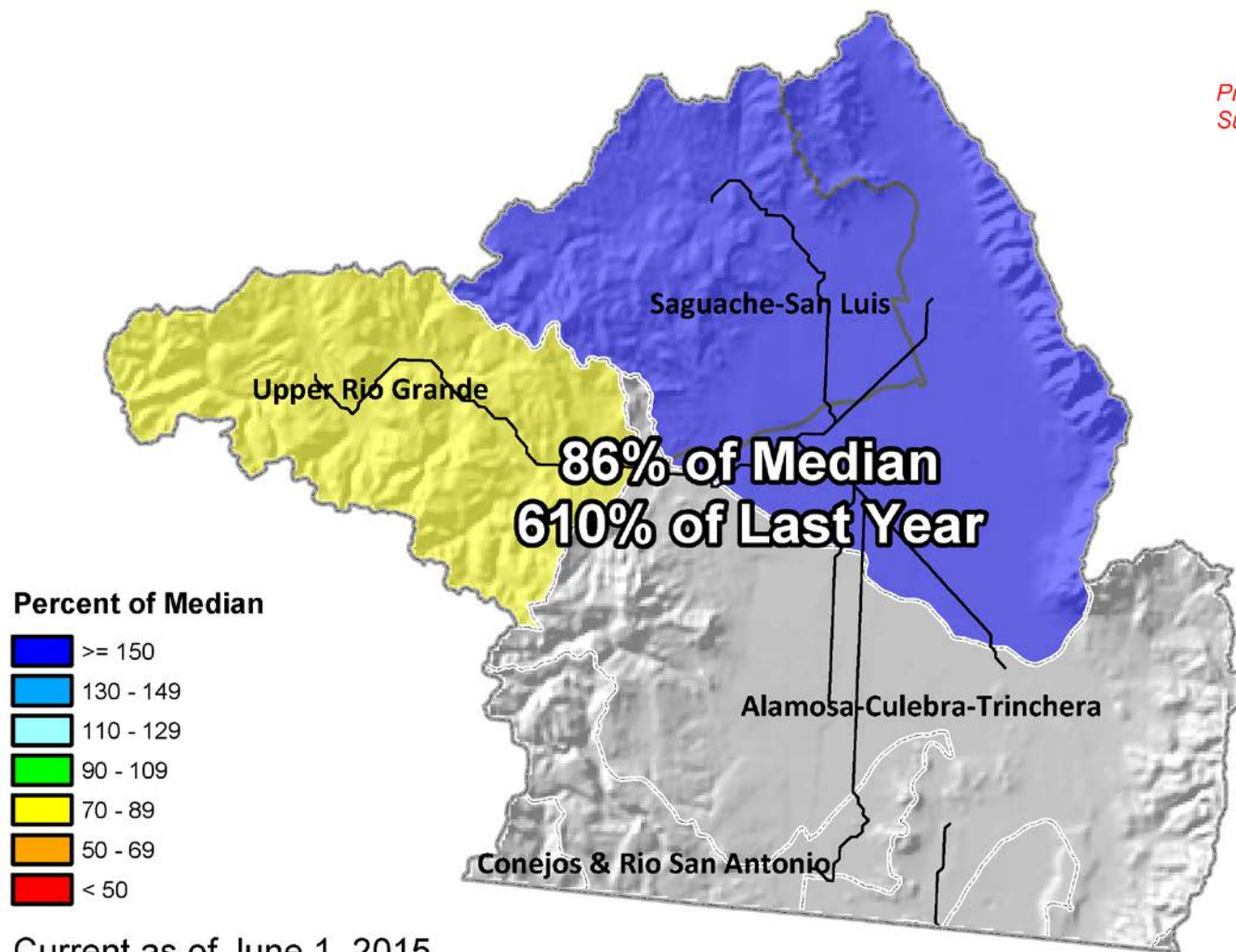
## Upper Rio Grande Basin Summary



## Upper Rio Grande Basin Snowpack Map



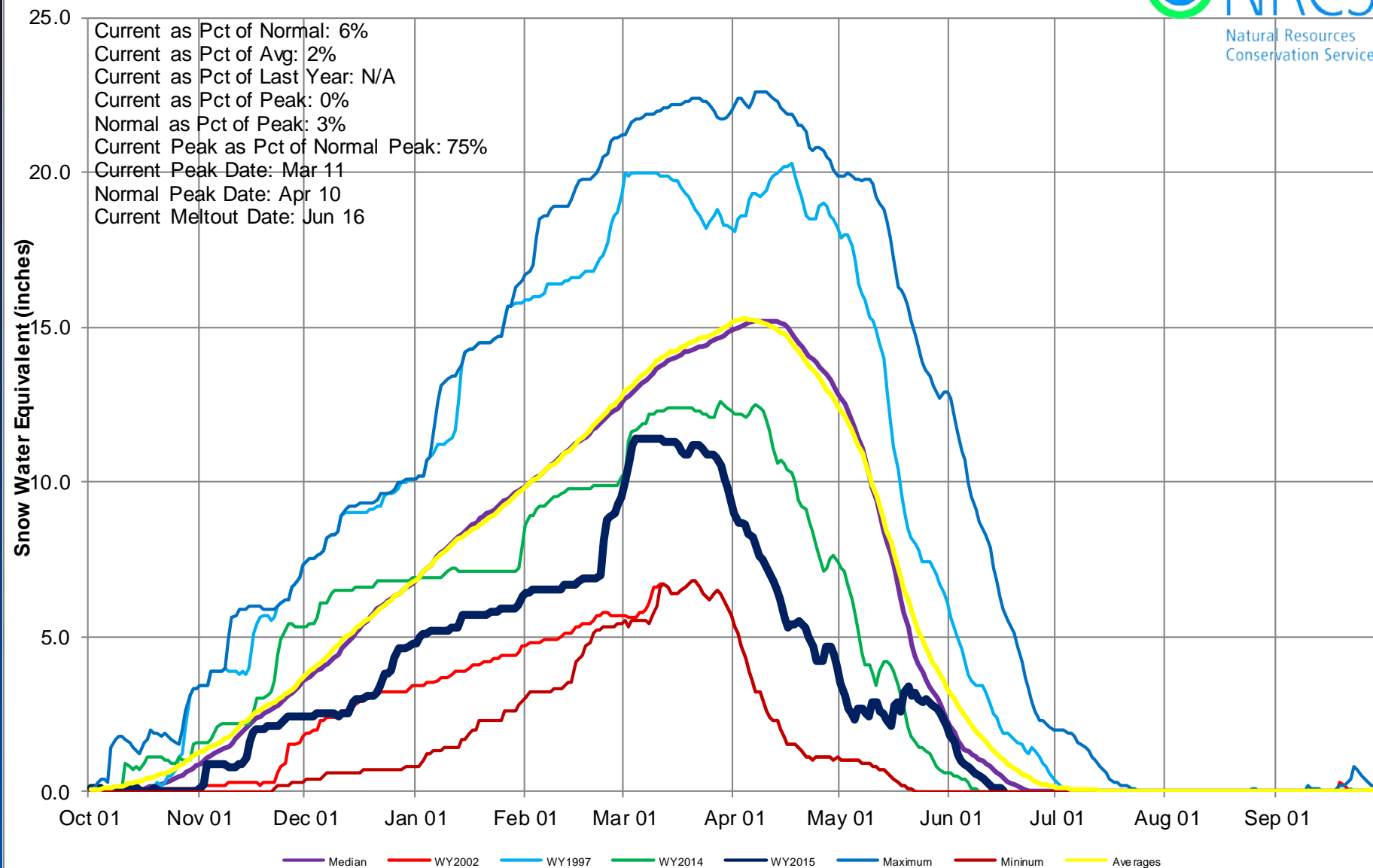
*Provisional Data  
Subject to Revision*



Current as of June 1, 2015

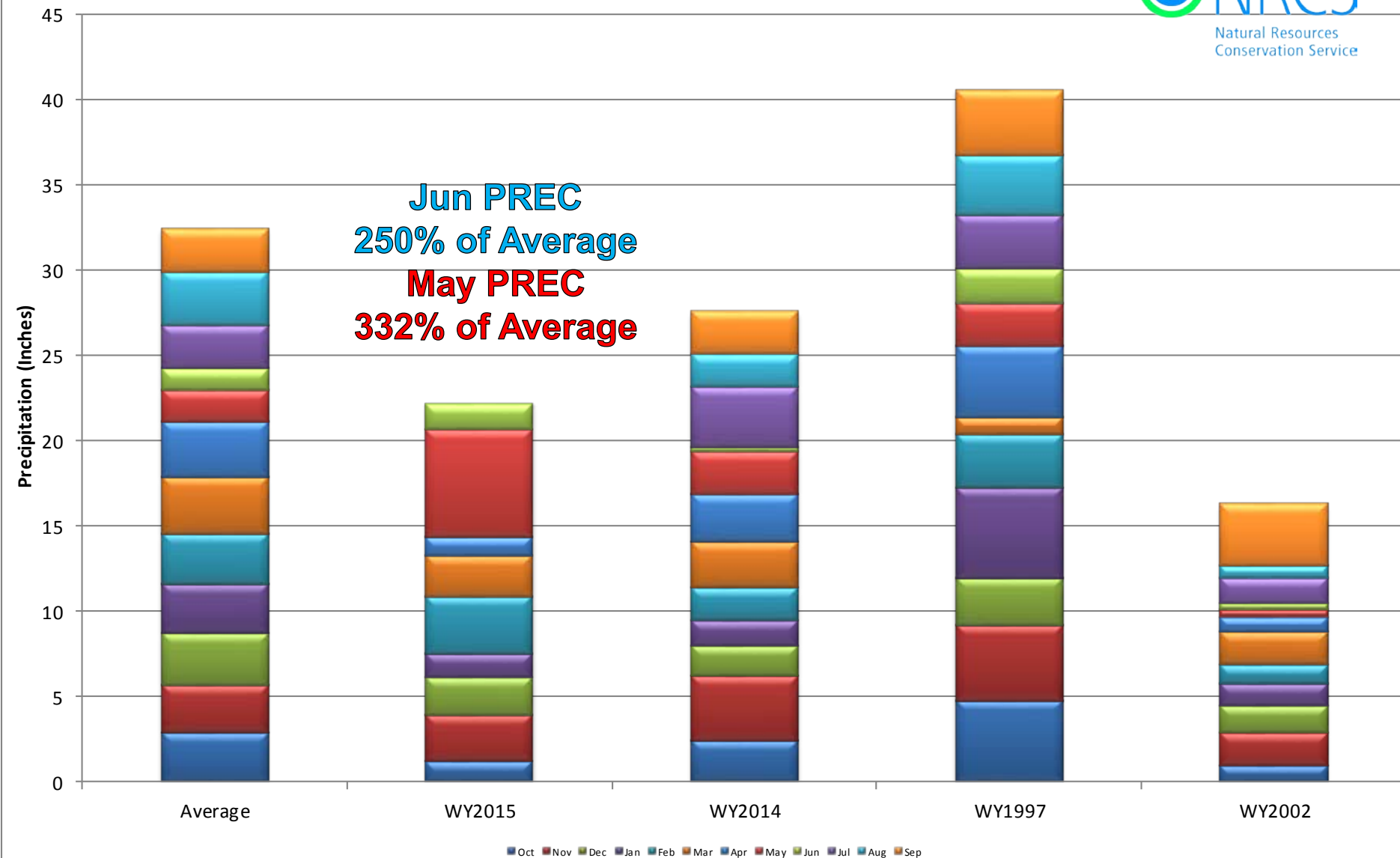
## Upper Rio Grande Basin High/Low Snowpack Summary

**Based on Provisional SNOTEL data as of Jun 16, 2015**



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

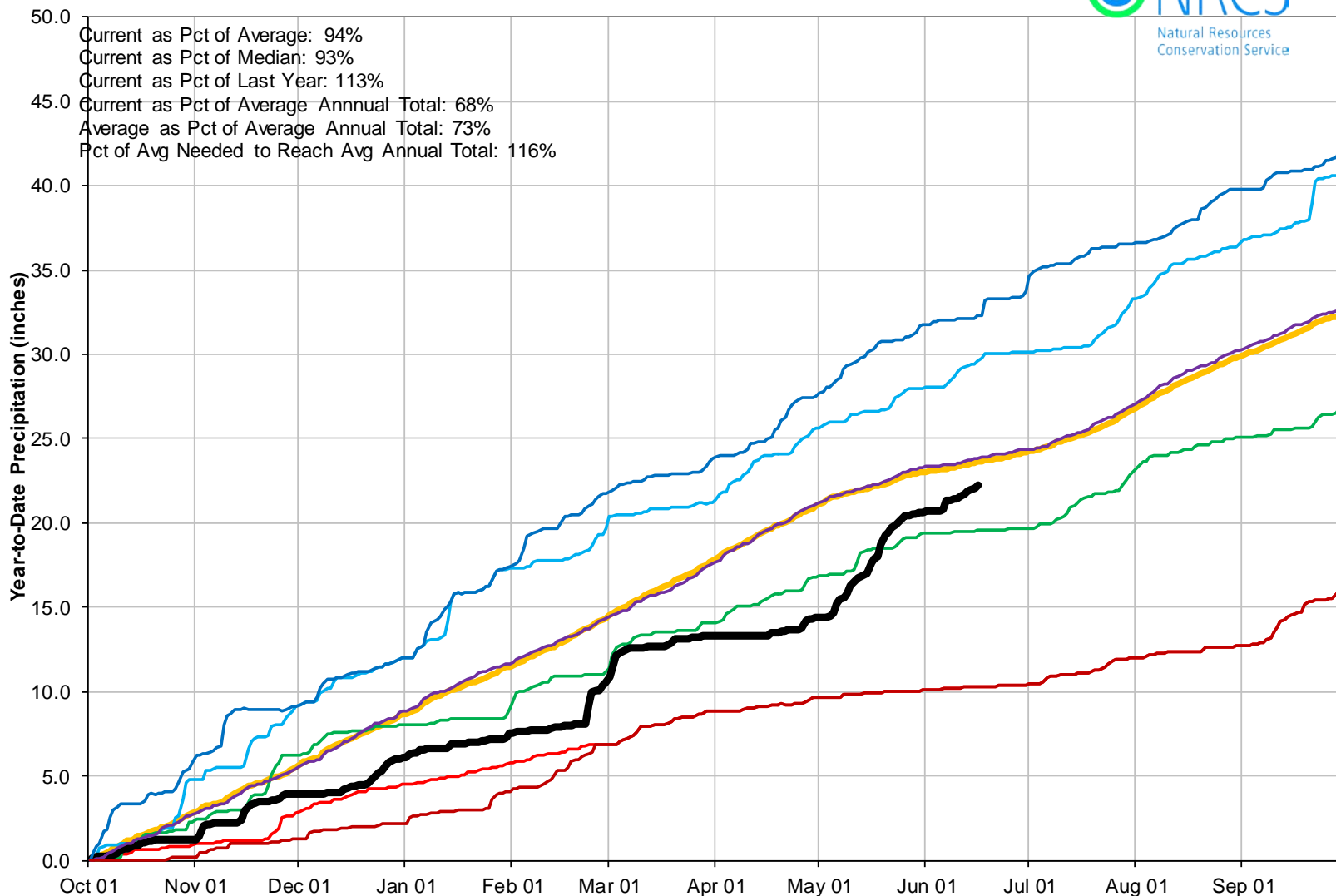
**Based on Provisional SNOTEL data as of Jun 16, 2015**





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

*Based on Provisional SNOTEL data as of Jun 16, 2015*

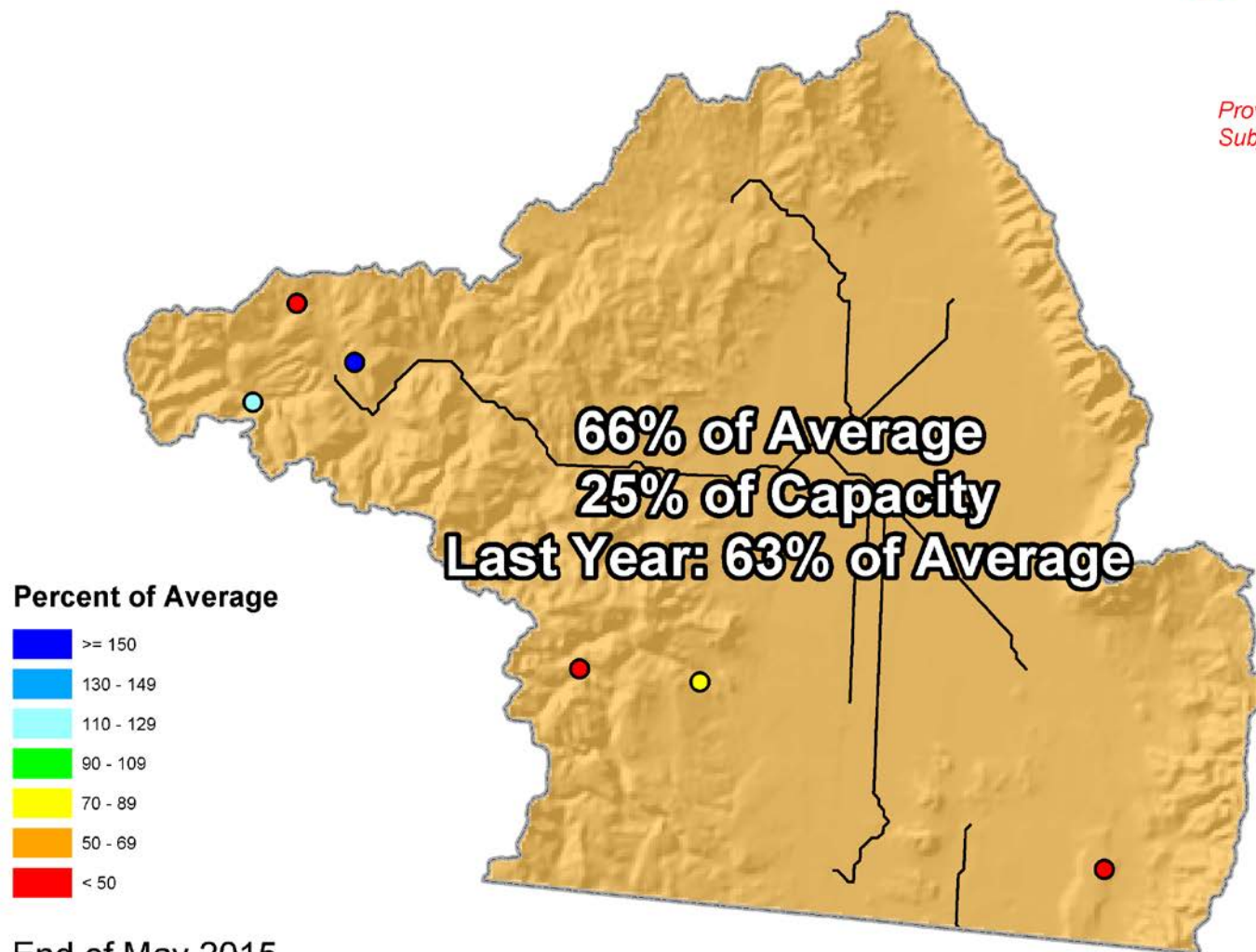




## Upper Rio Grande Basin Reservoir Storage Map



*Provisional Data  
Subject to Revision*

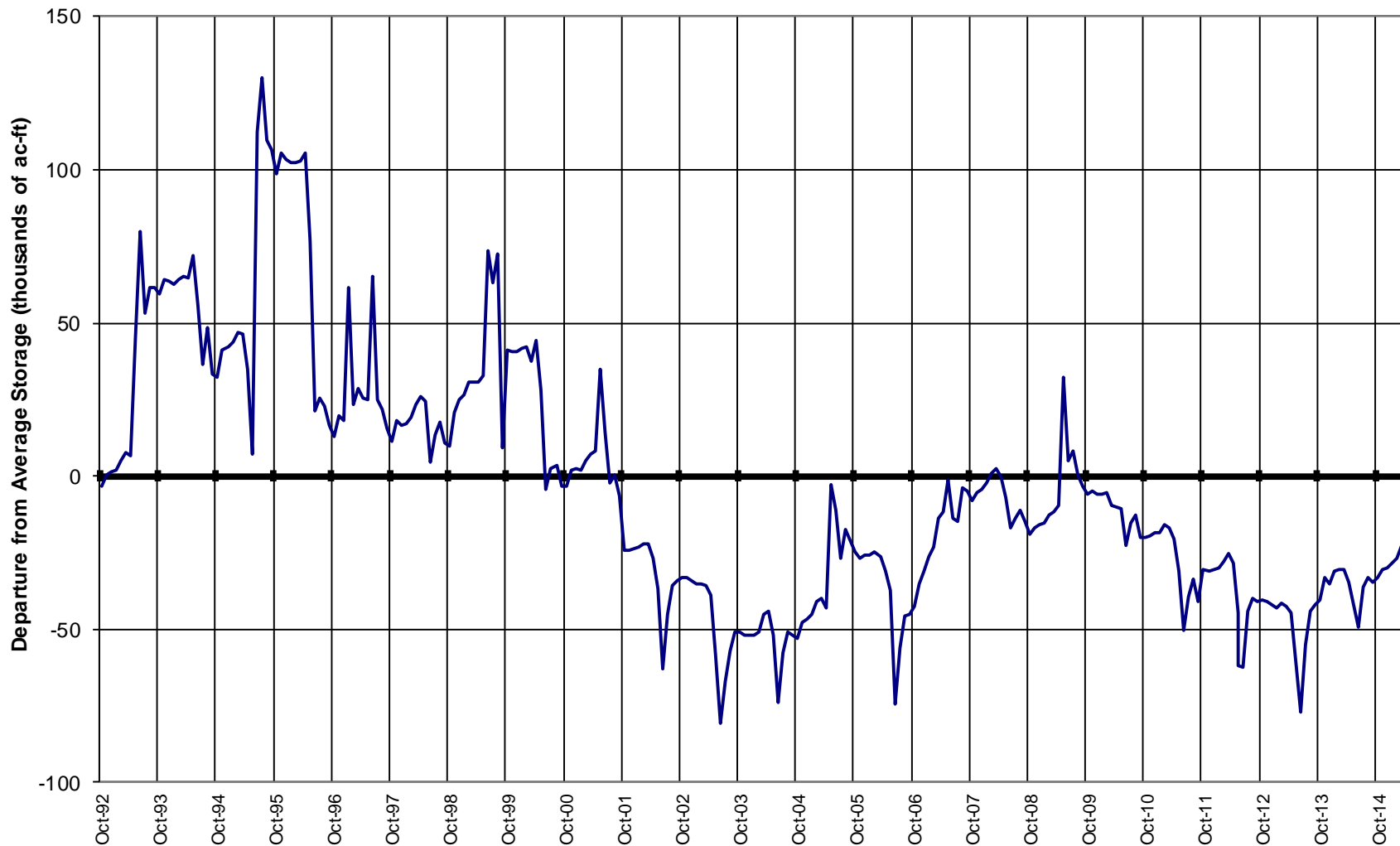


End of May 2015





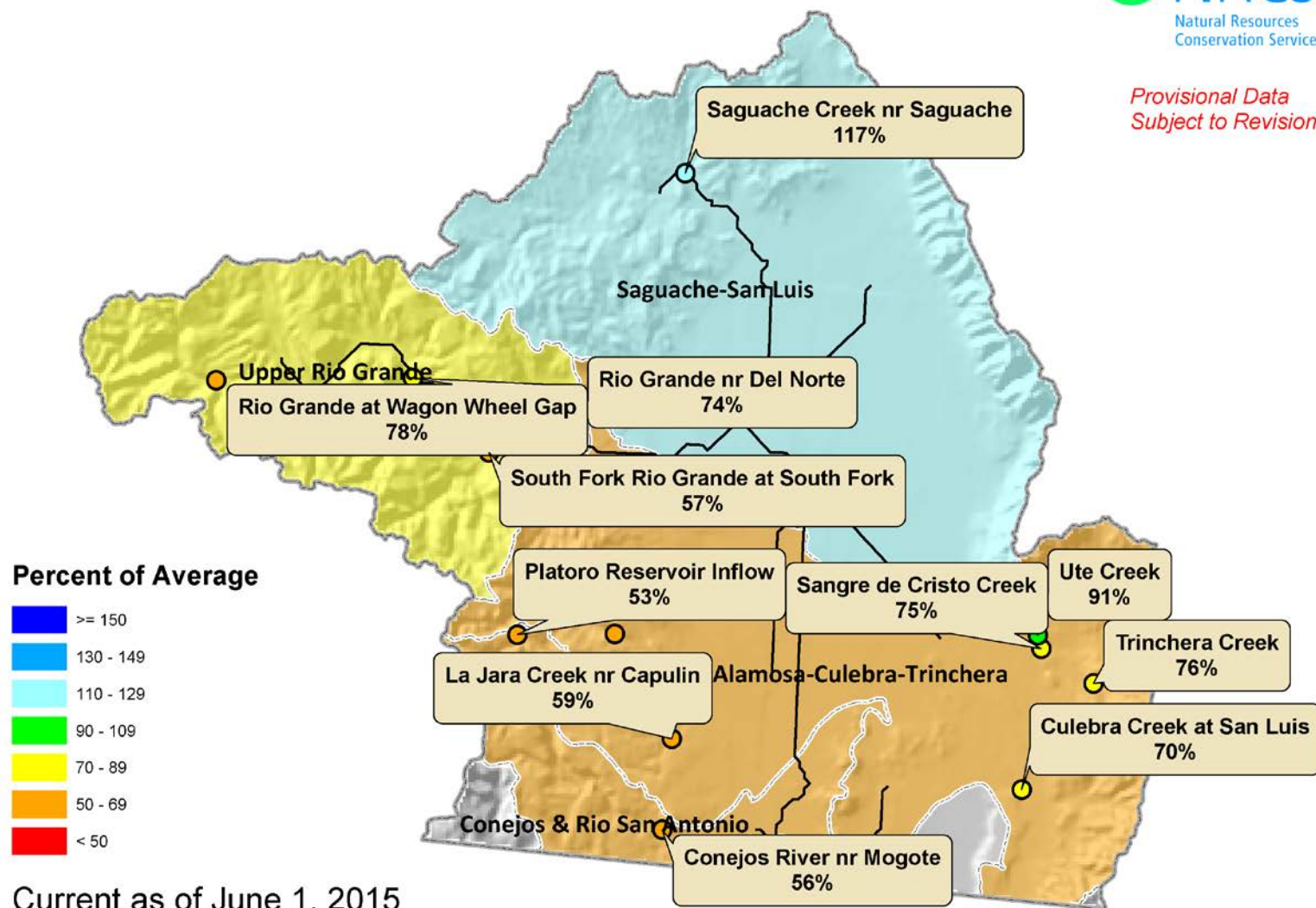
## UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



## Upper Rio Grande Basin Streamflow Forecast Map



*Provisional Data  
Subject to Revision*



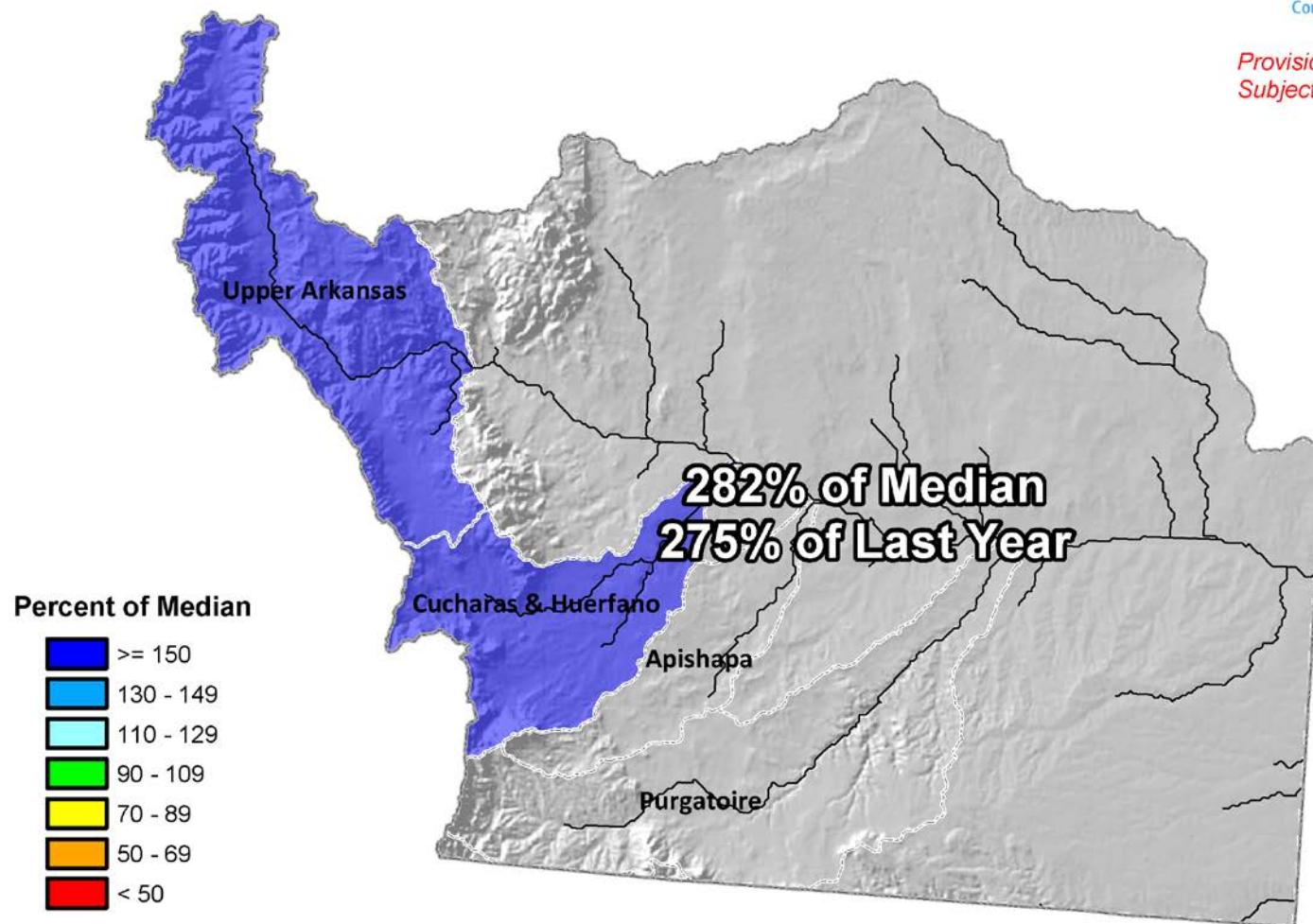
## Arkansas River Basin Summary



## Arkansas River Basin Snowpack Map



*Provisional Data  
Subject to Revision*



Current as of June 1, 2015

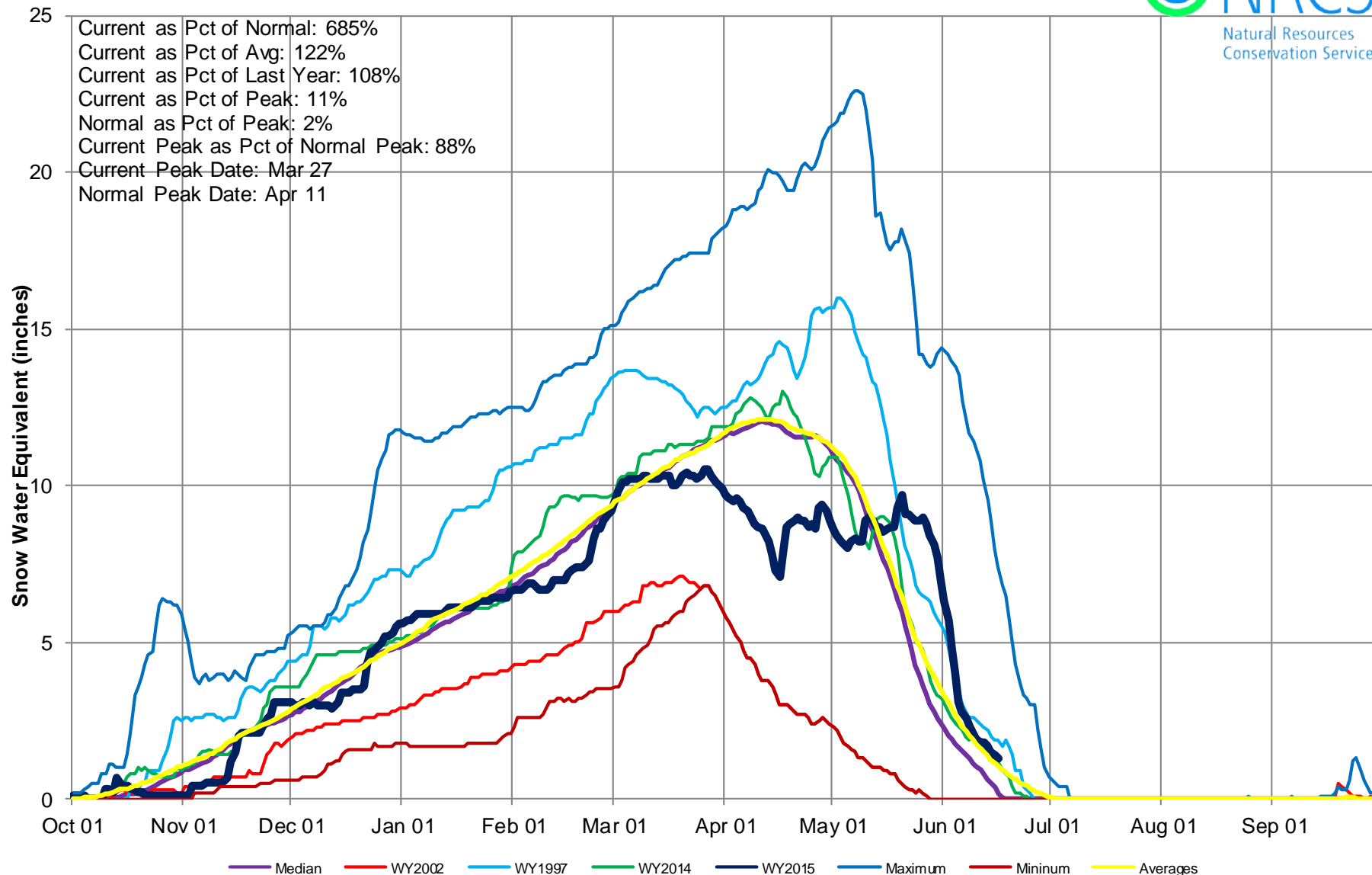


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# Colorado Snow Surveys

## Arkansas River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jun 16, 2015*





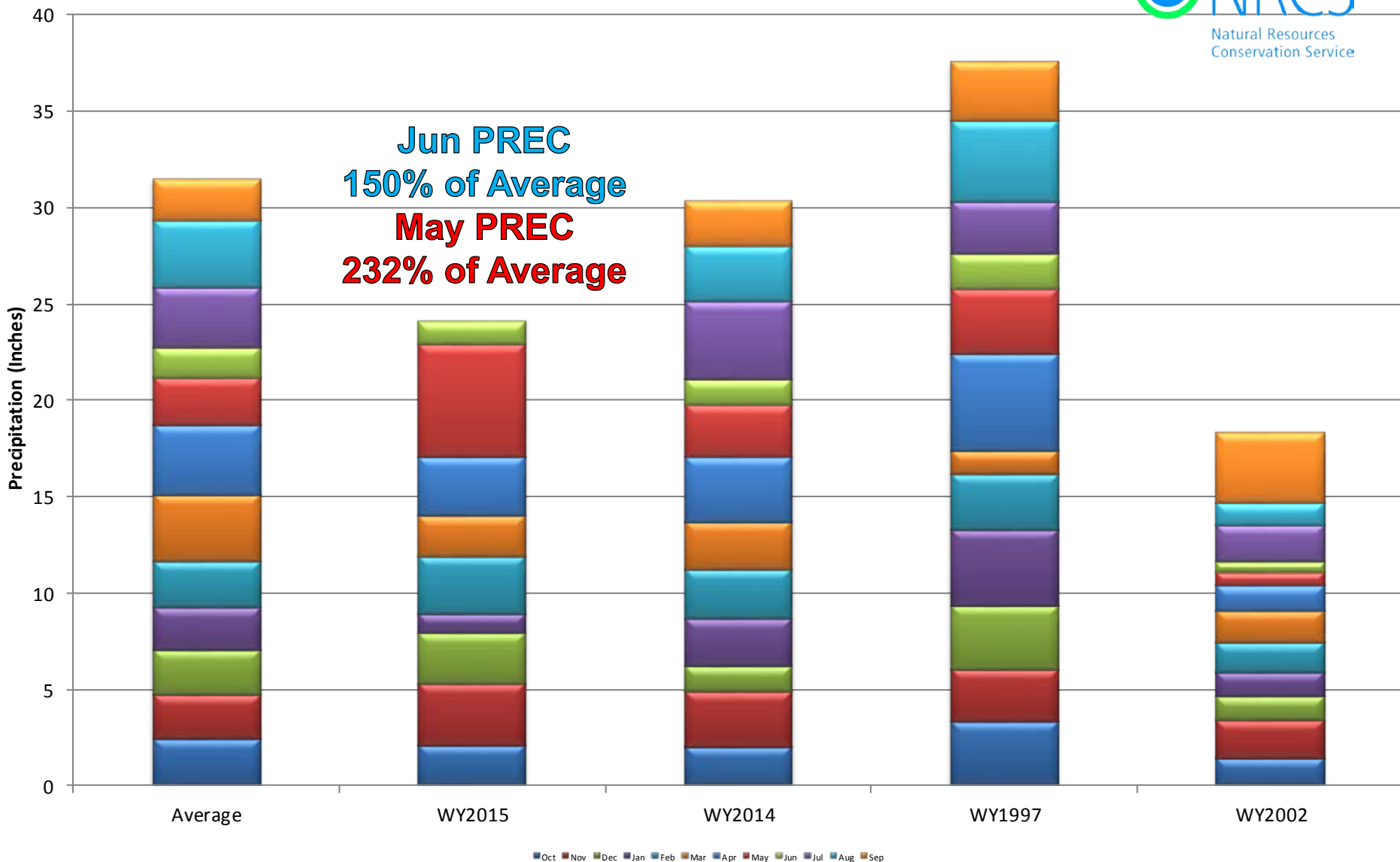


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# Colorado Snow Surveys

## Arkansas River Basin High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jun 16, 2015*

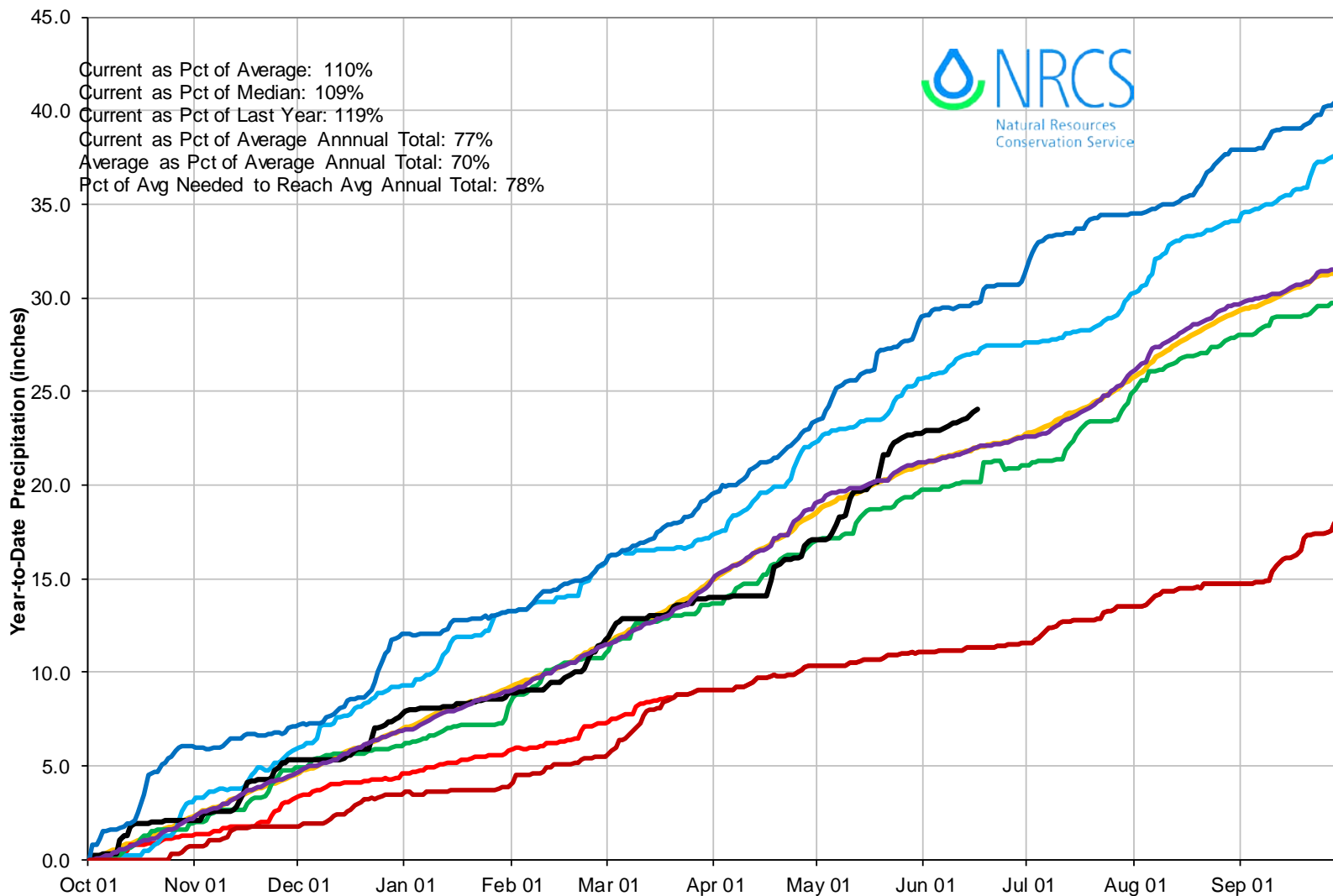






## Arkansas River Basin High/Low Year-to-Date Precipitation Summary

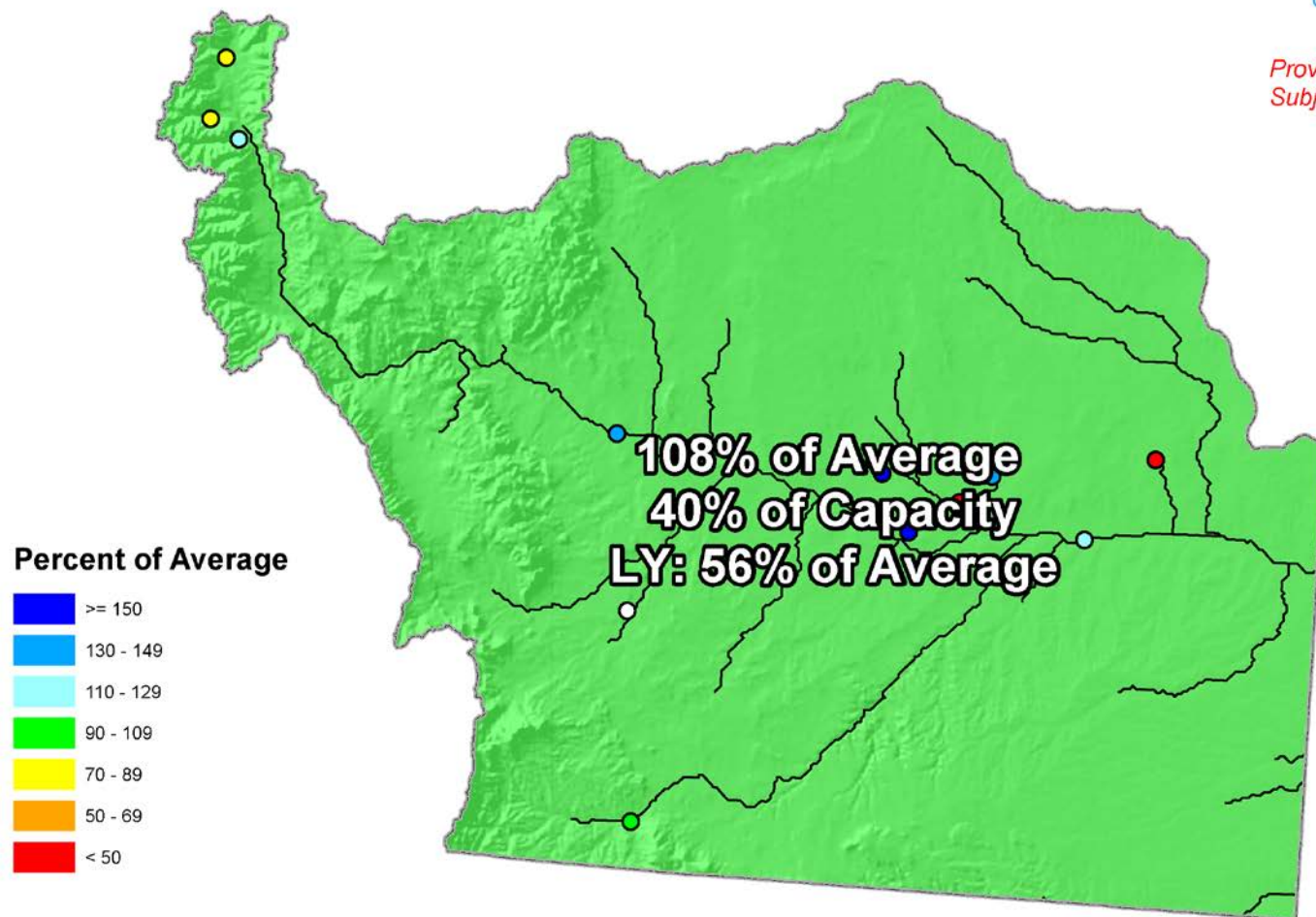
*Based on Provisional SNOTEL data as of Jun 16, 2015*



## Arkansas River Basin Reservoir Storage Map



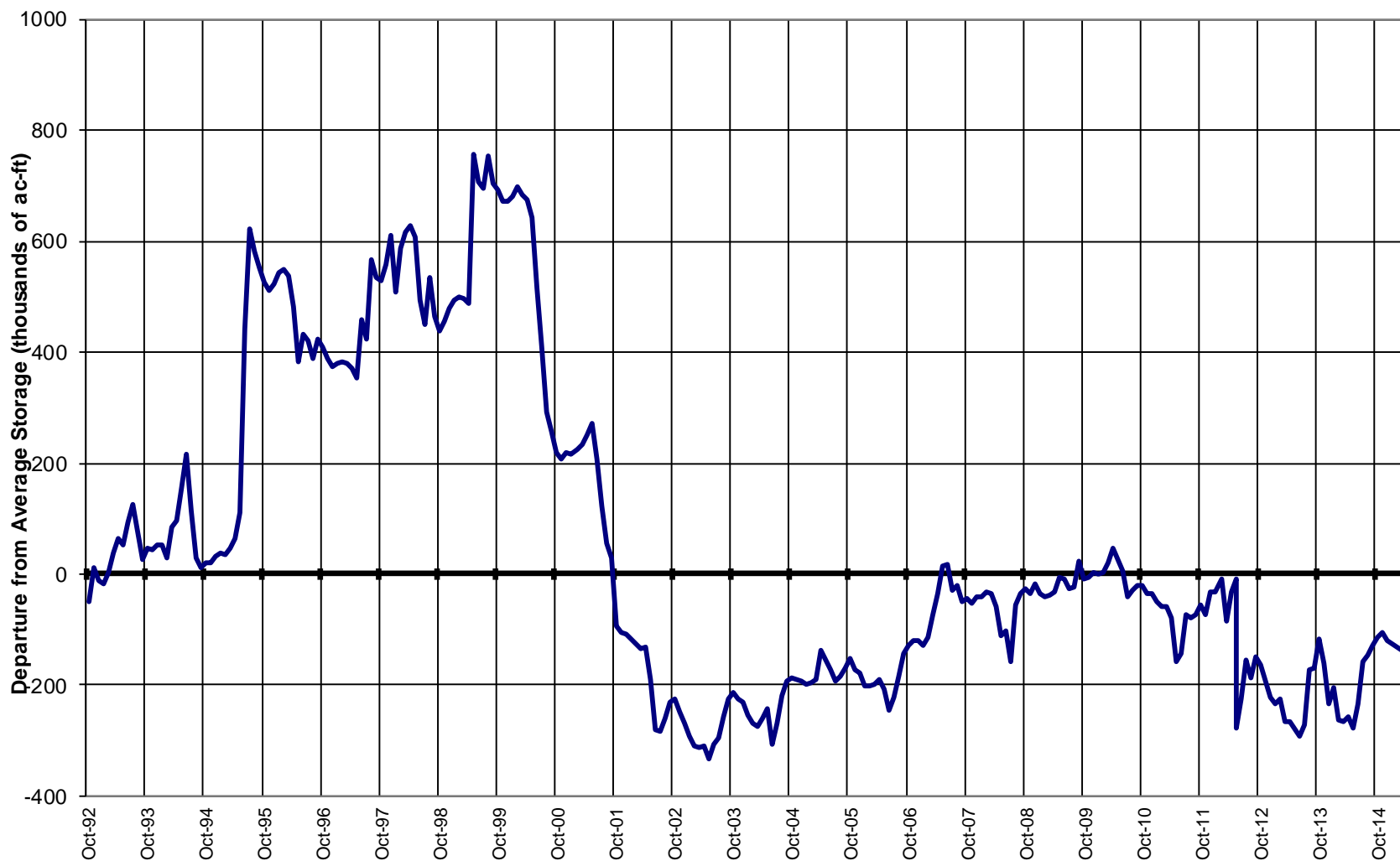
*Provisional Data  
Subject to Revision*



End of May 2015



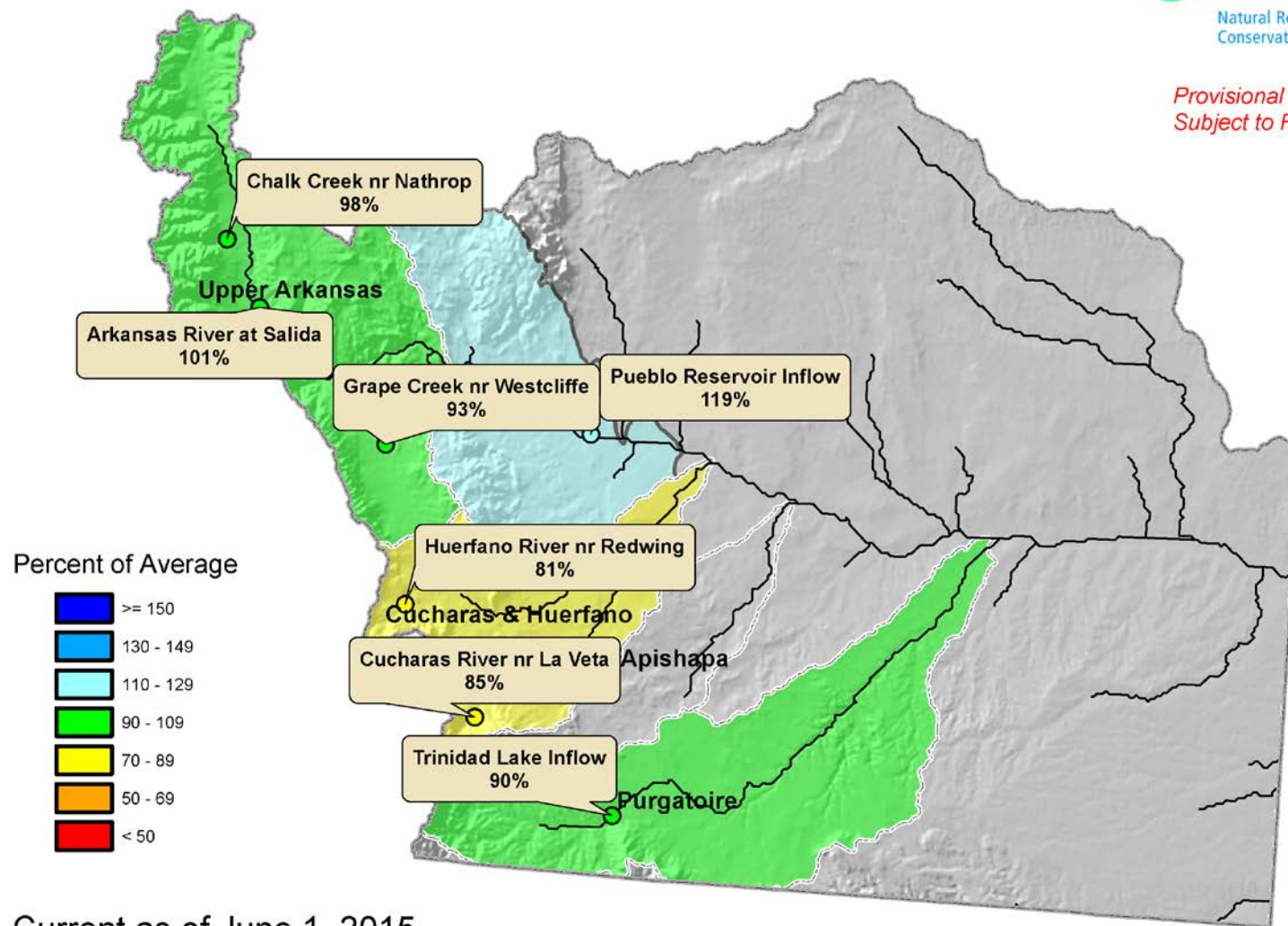
## ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



## Arkansas River Basin Streamflow Forecast Map

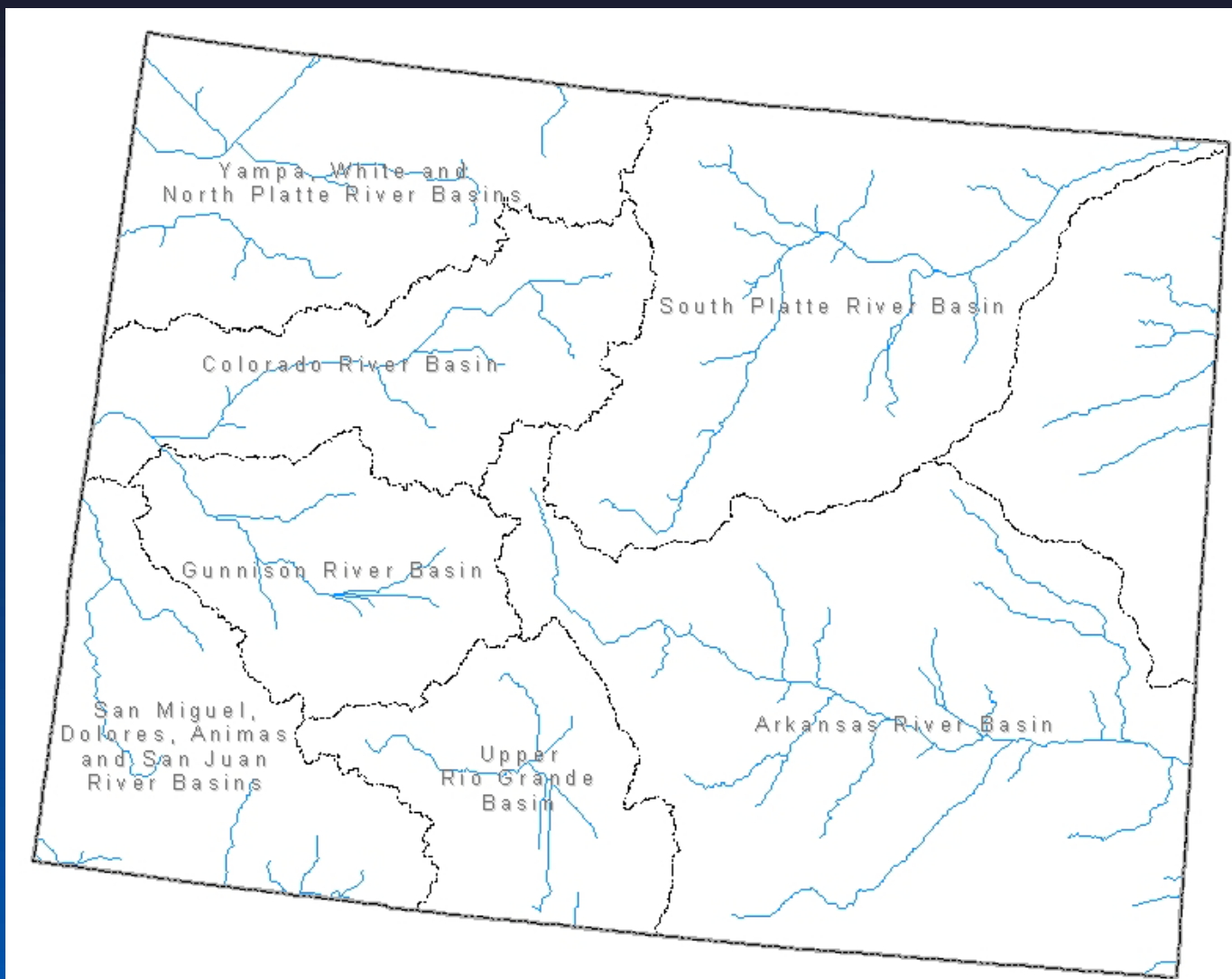


*Provisional Data  
Subject to Revision*



Current as of June 1, 2015

# Colorado Statewide Summary

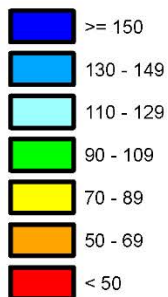




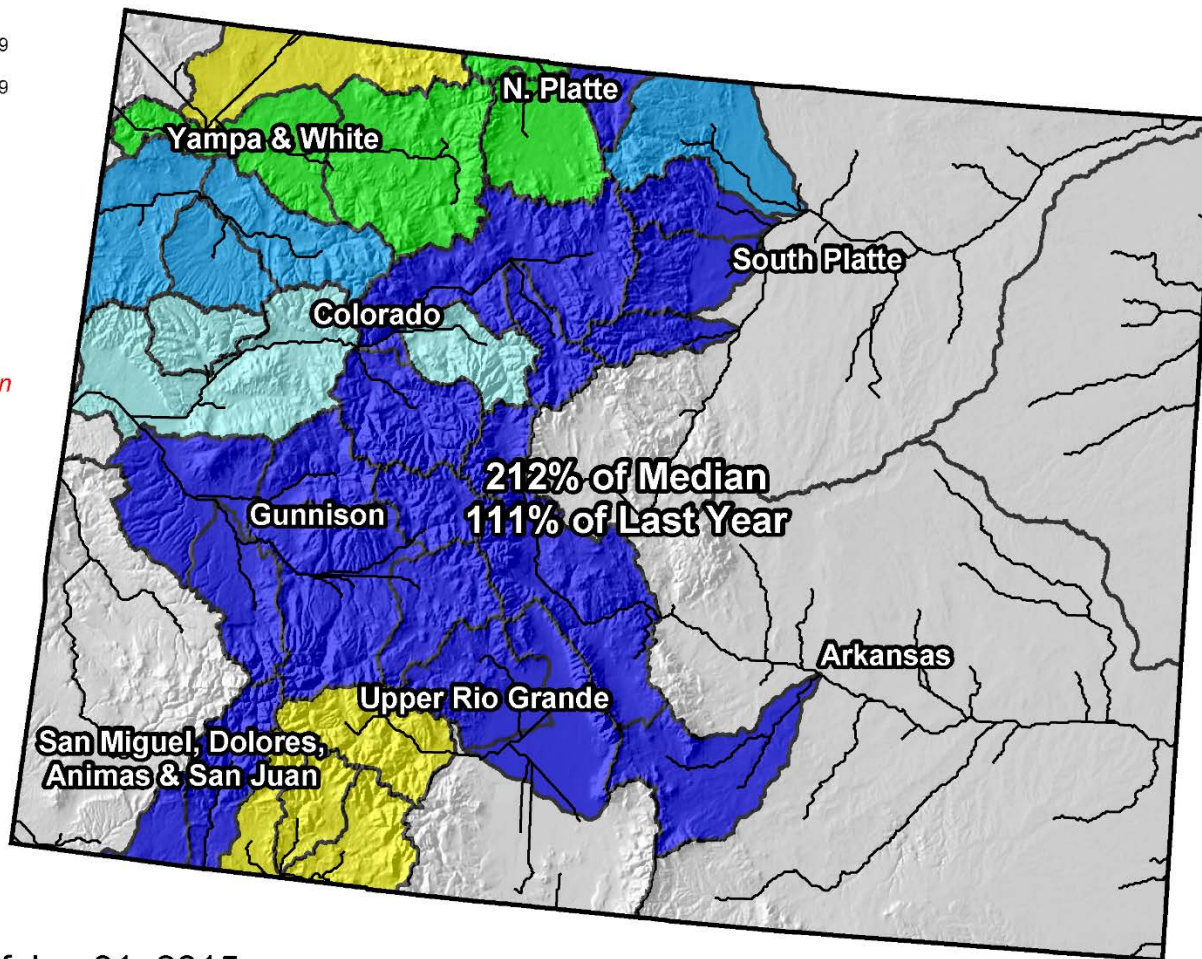
## Colorado Snowpack Map



### Percent of Median



*Provisional Data  
Subject to Revision*



Current as of Jun 01, 2015



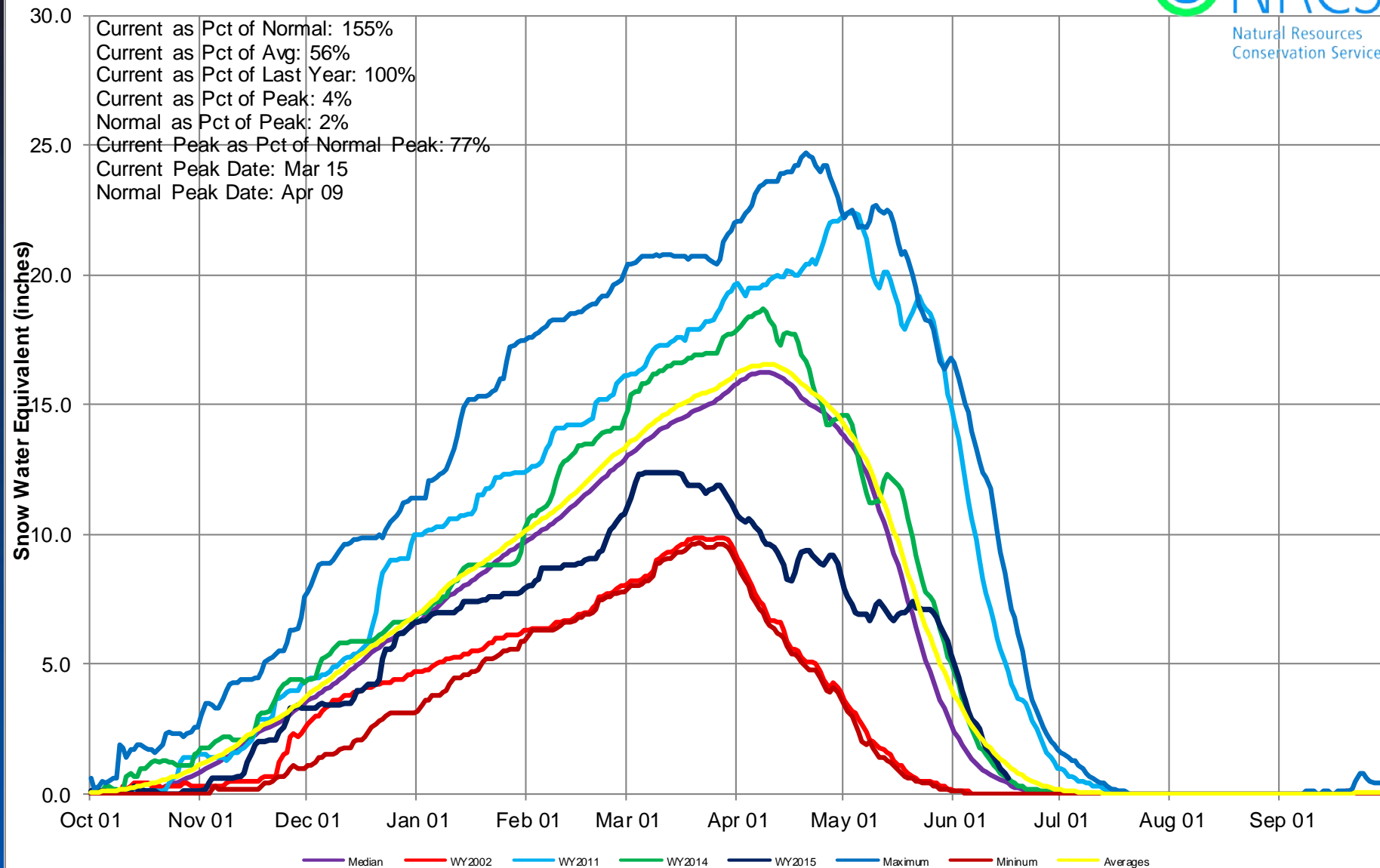


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# Colorado Snow Surveys

## Colorado Statewide High/Low Snowpack Summary

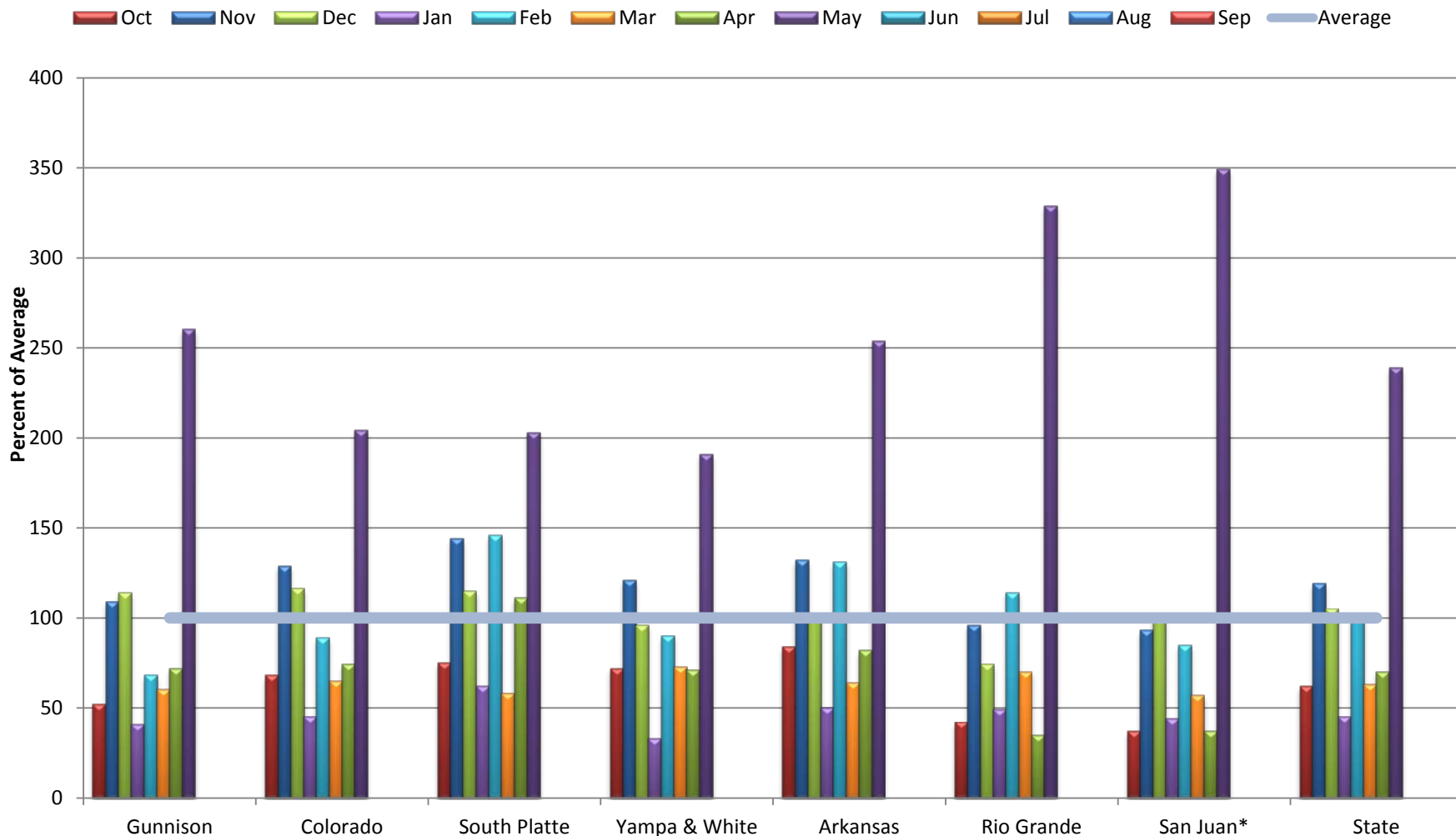
*Based on Provisional SNOTEL data as of Jun 16, 2015*





## Colorado Monthly Precipitation Summary for WY2015

USDA Natural Resources Conservation Service

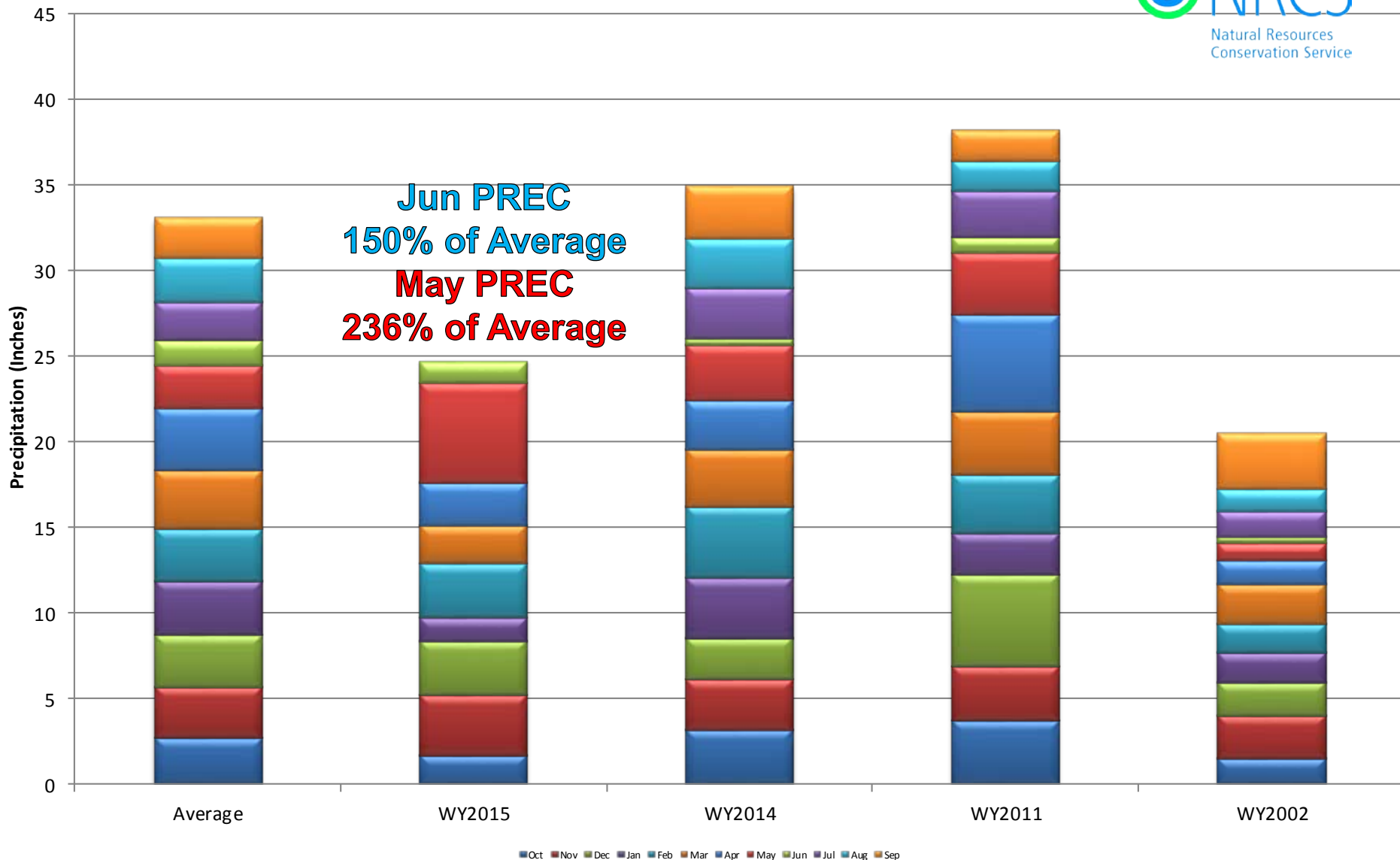


\*Includes Animas, Dolores, San Miguel Basins



## Colorado Statewide High/Low Monthly Precipitation Summary

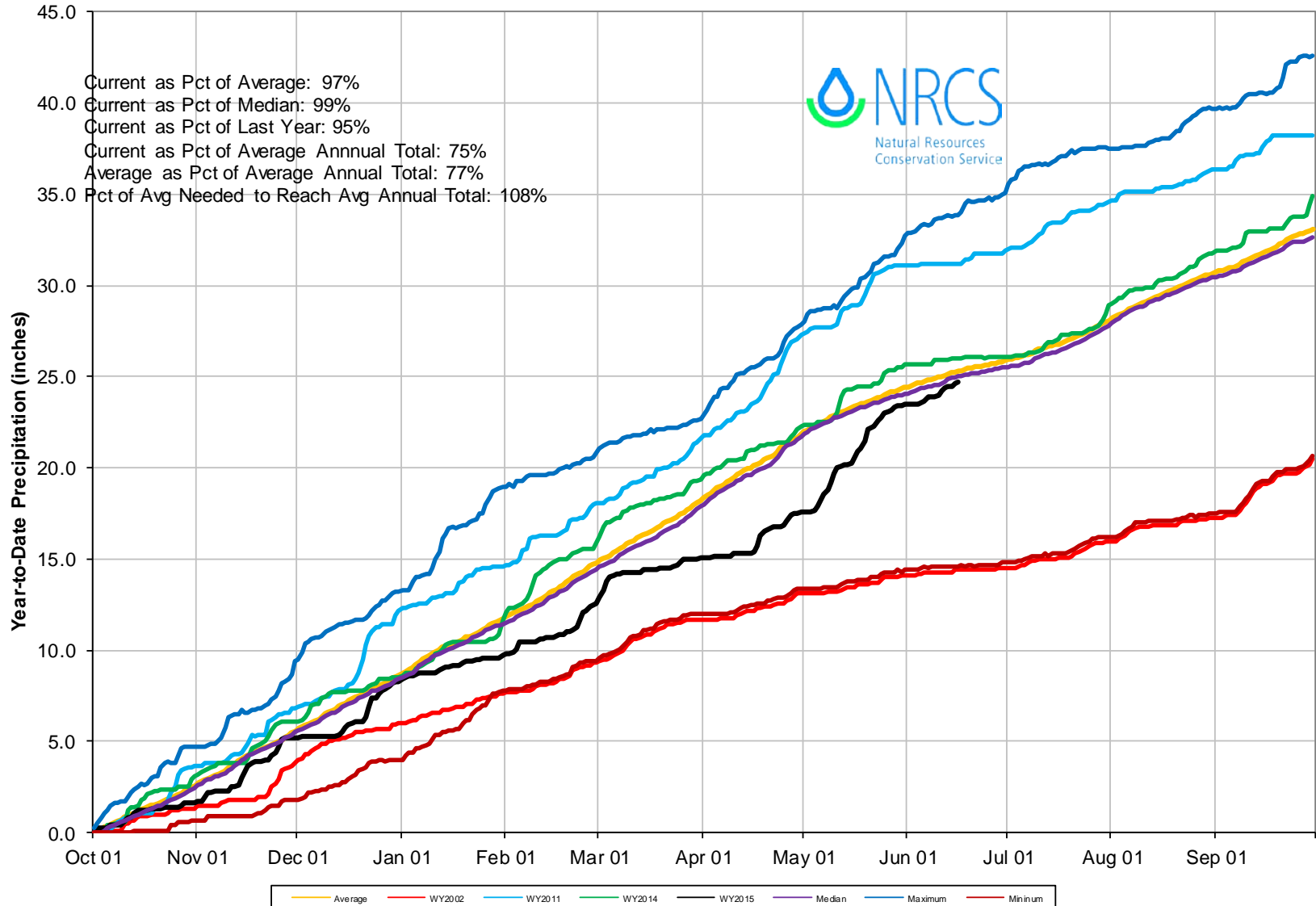
*Based on Provisional SNOTEL data as of Jun 16, 2015*





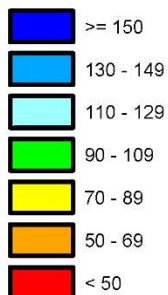
## Colorado Statewide High/Low Year-to-Date Precipitation Summary

*Based on Provisional SNOTEL data as of Jun 16, 2015*

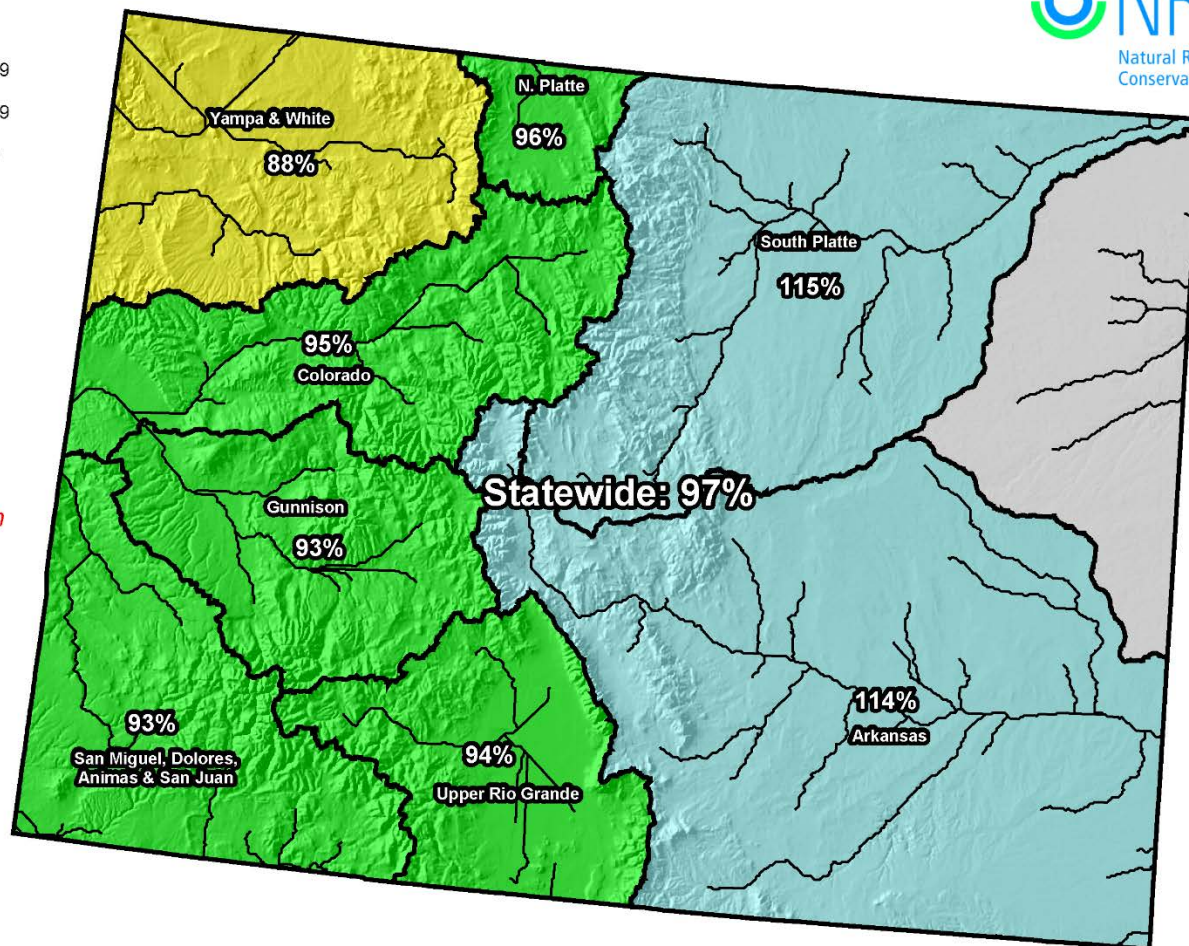


## Colorado SNOTEL Water Year-to-Date Precipitation Update Map

Percent of Average



*Provisional Data  
Subject to Revision*



Current as of Jun 16, 2015

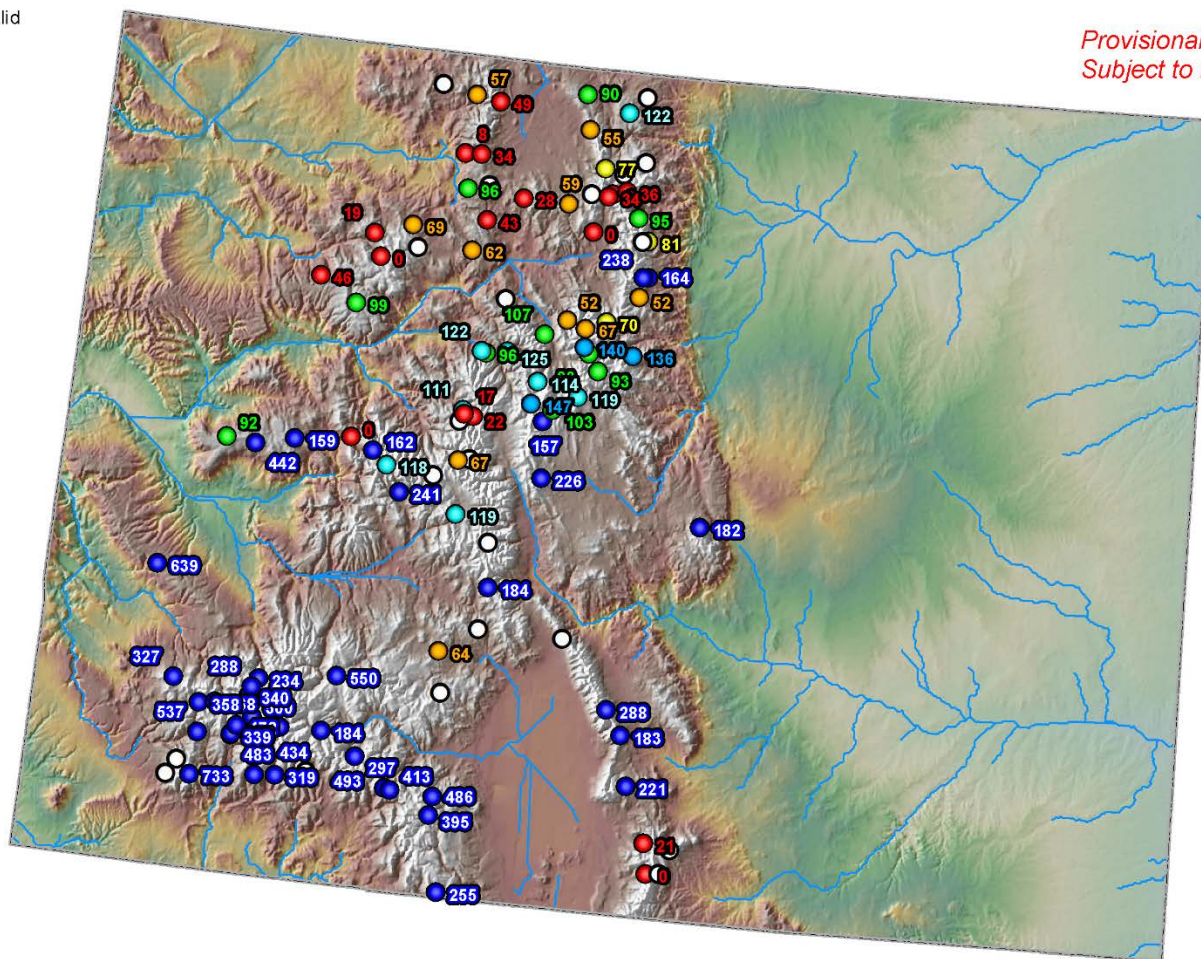


## Colorado SNOTEL Month-to-Date Precipitation

Percent of Average

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

*Provisional Data  
Subject to Revision*

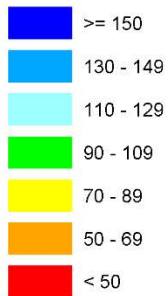


Current as of Jun 16, 2015

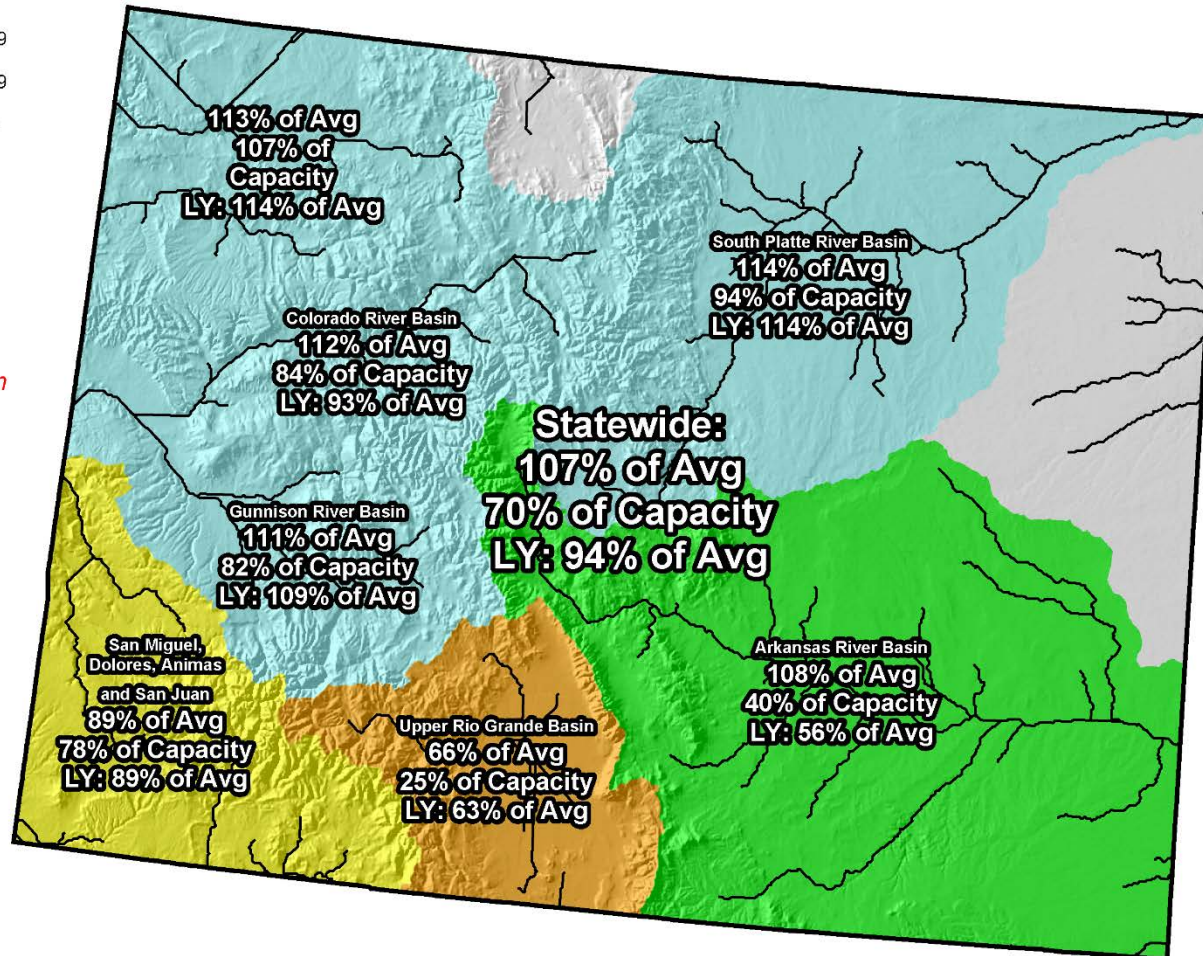


## Colorado Reservoir Storage Map

### Percent of Average

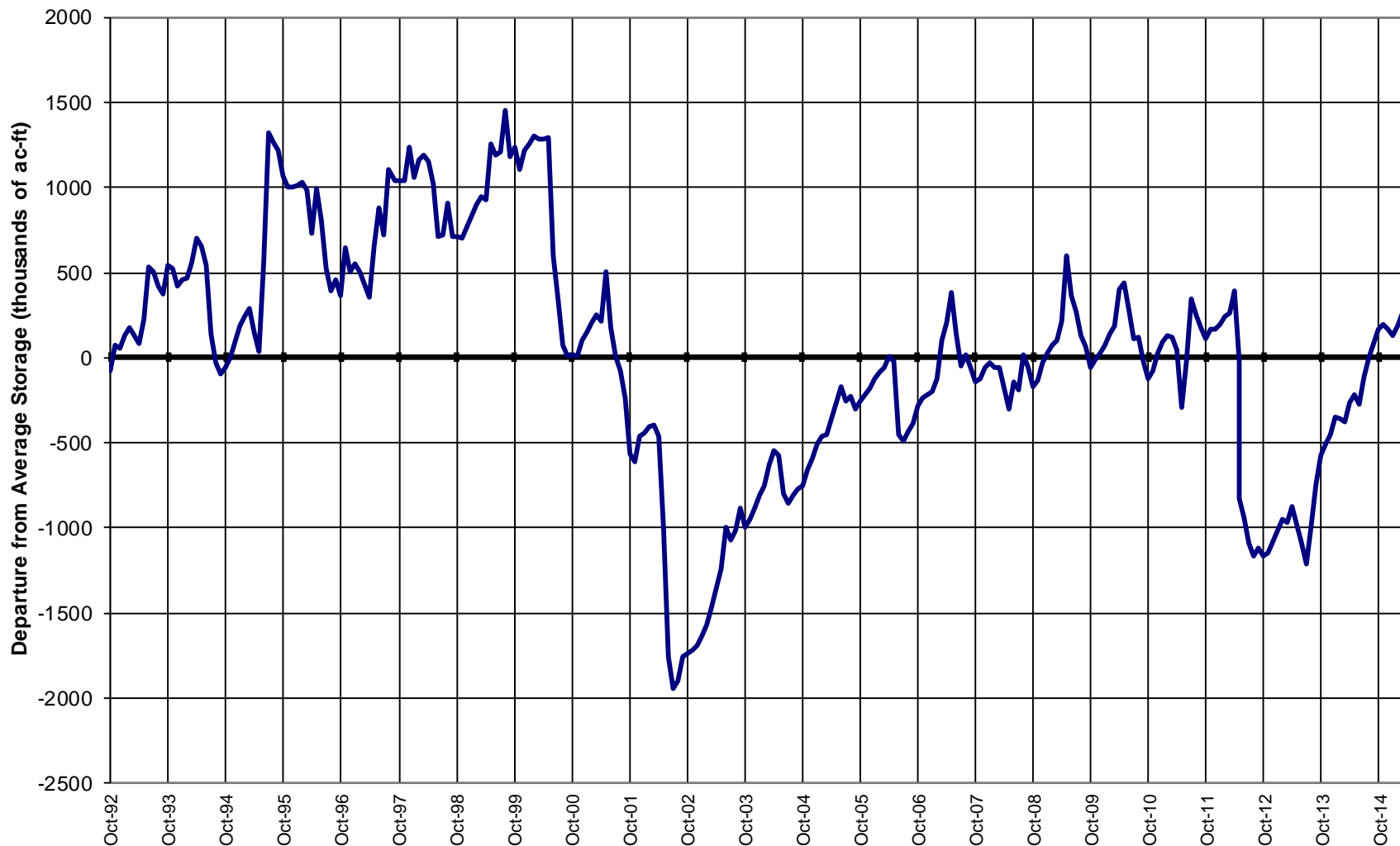


*Provisional Data  
Subject to Revision*



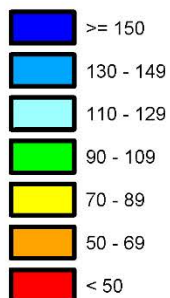


## COLORADO STATEWIDE Reservoir Storage Departure from Average

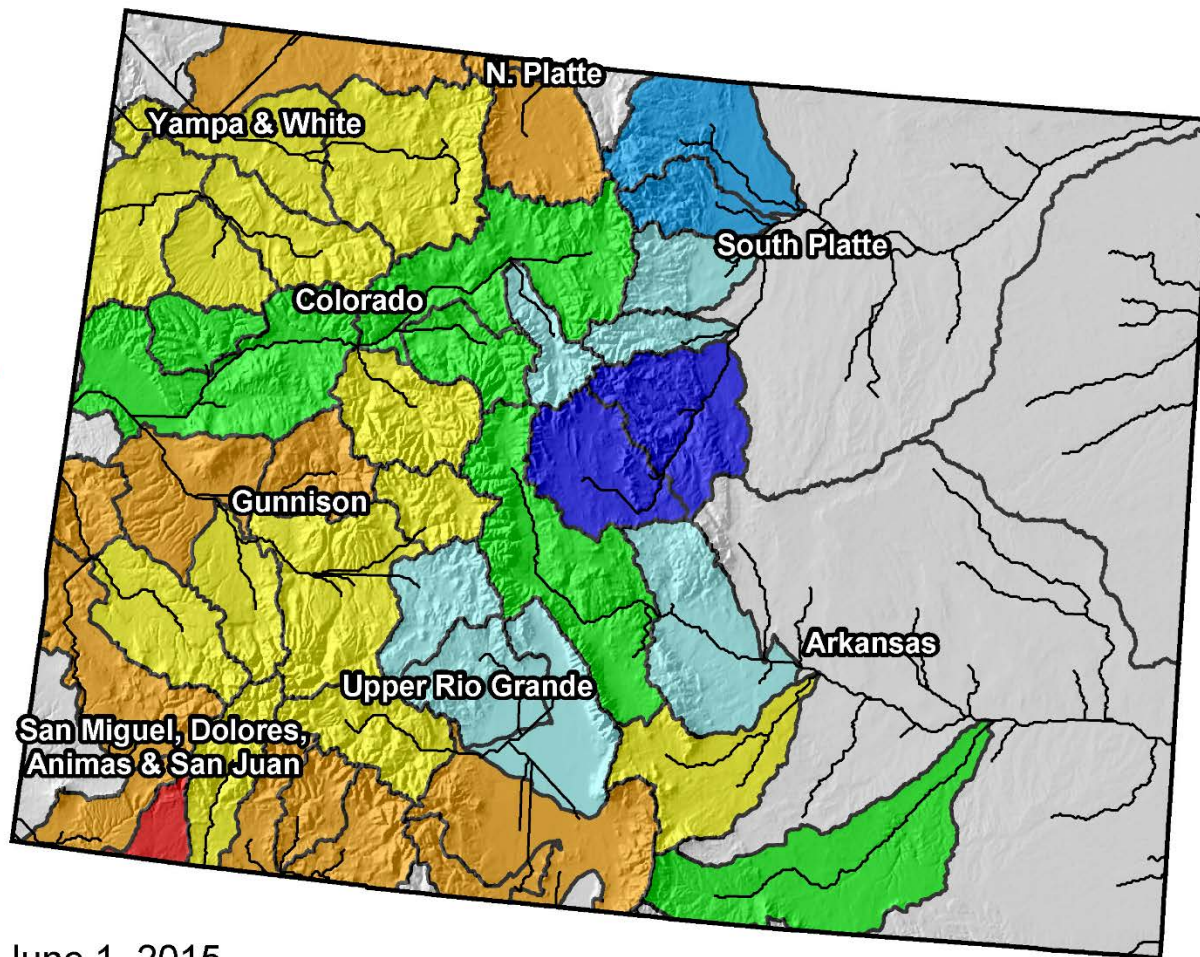


## Colorado Streamflow Forecast Map

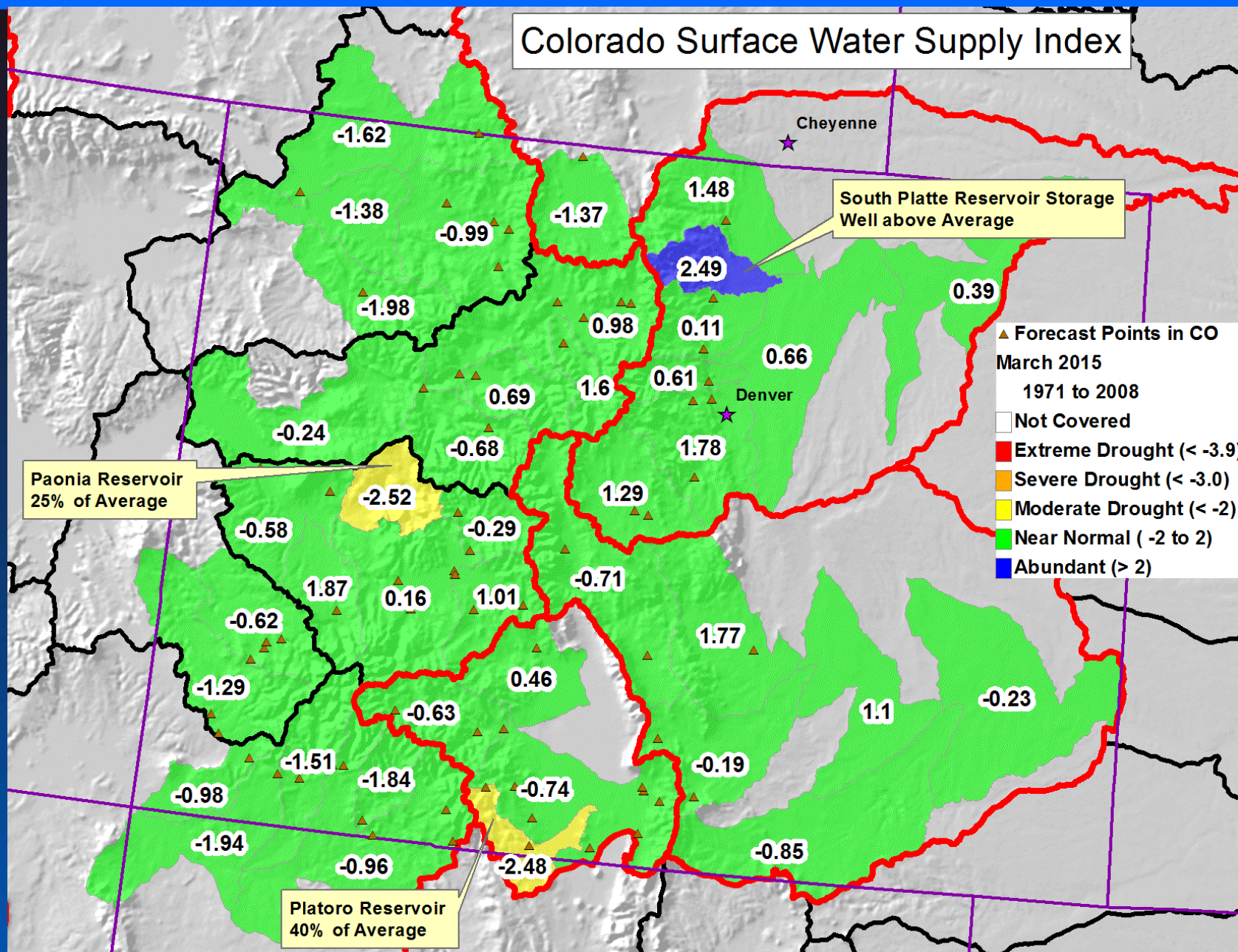
### Percent of Average



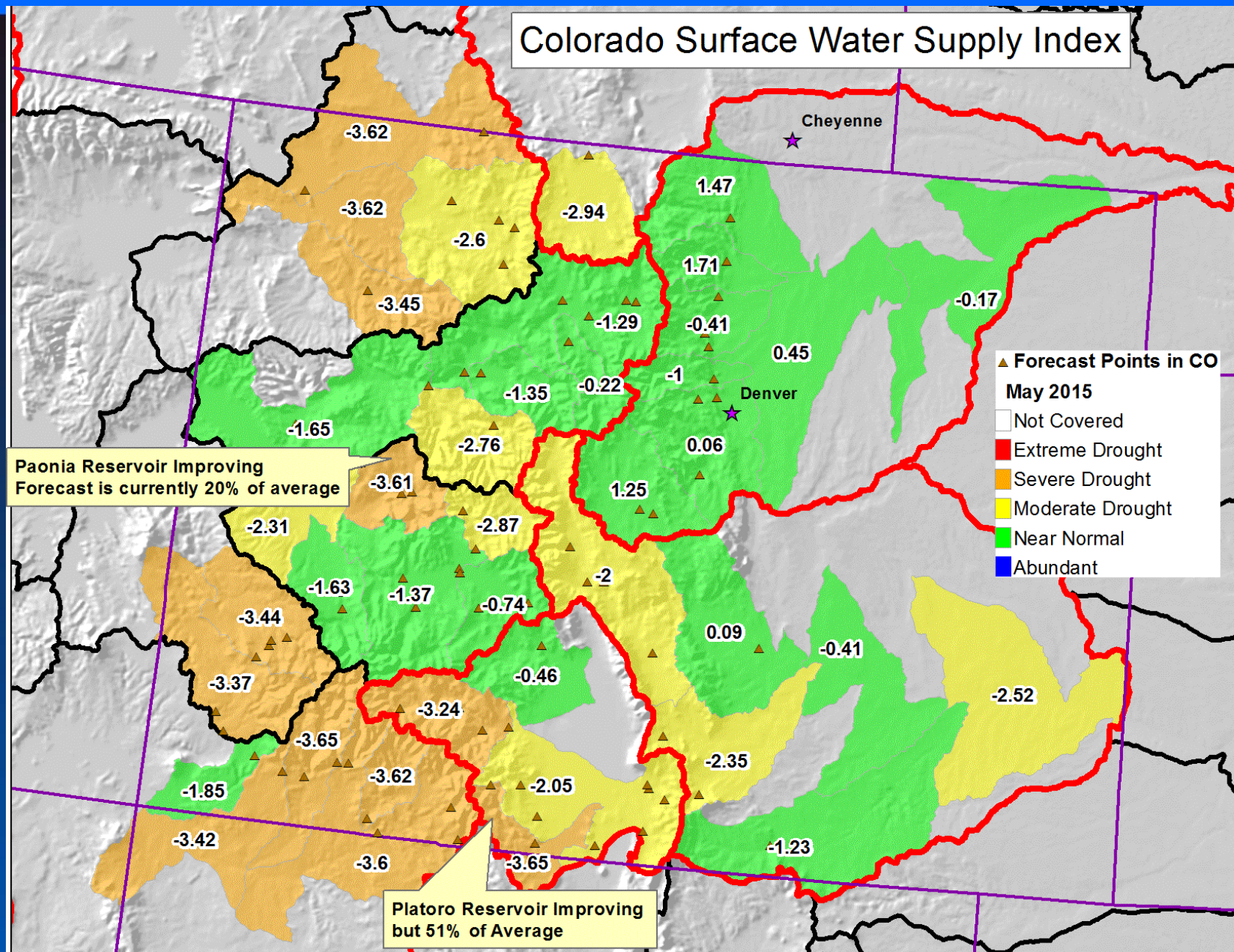
*Provisional Data  
Subject to Revision*



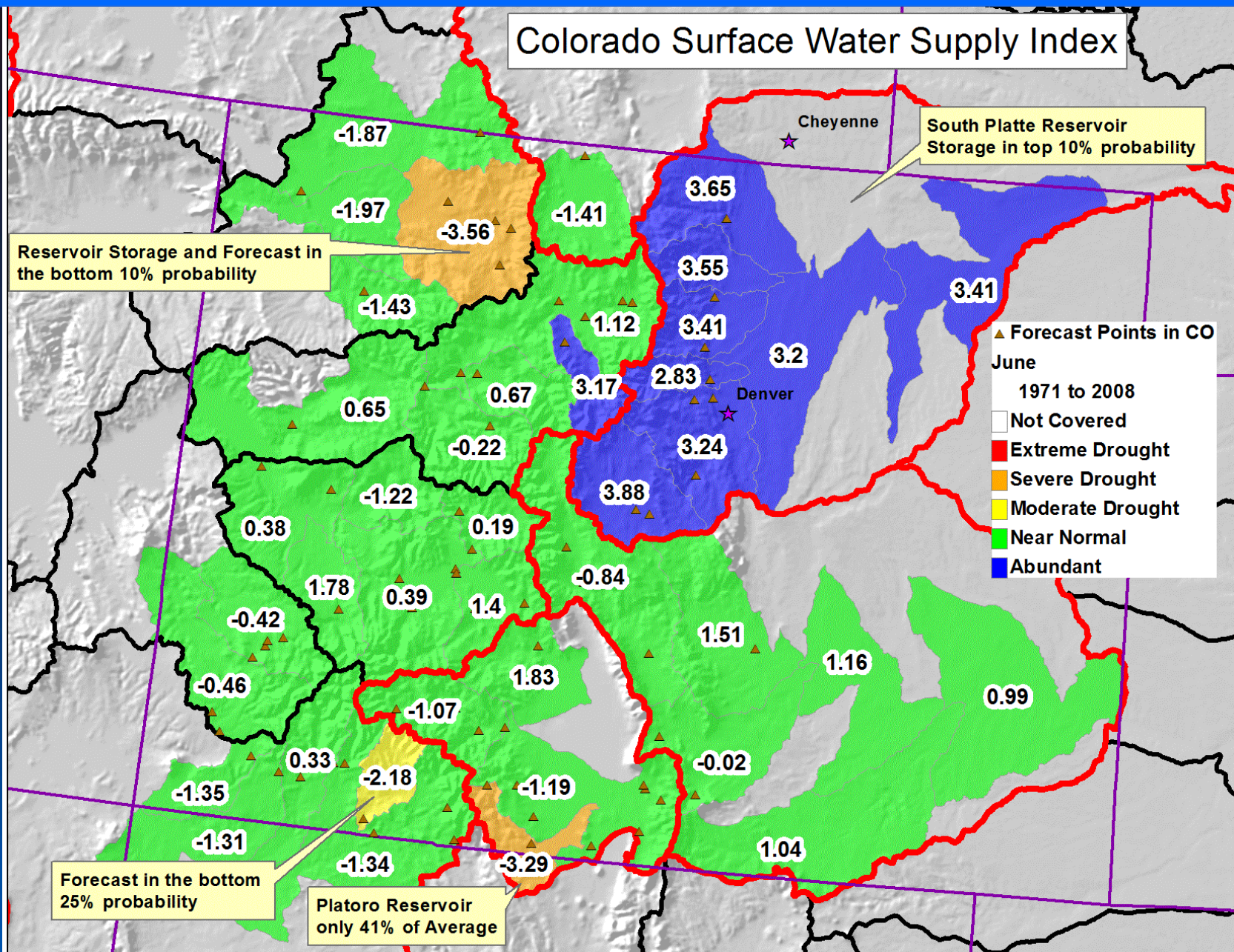














## Summary

- **Statewide snowpack peak occurred Mar. 14<sup>th</sup>, four weeks early.**
  - South Platte peaked Apr 28<sup>th</sup>
  - This year's snowpack peak was 77% of the typical peak, 28/30 yrs
  - Nearly one half of this year's seasonal snowpack has melted already
- **Snowpack**
  - Snowpack is currently in great standing, but what does it matter when your normal are hardly an inch
- **Recent precip (mainly rain) has helped considerably.**
  - Year-to-Date precip up from 80% of norm to 96% of norm
- **Reservoirs statewide are in relatively good standing**
  - SMDASJ & Rio Grande are below normal at 89% & 66% respectively
- **Streamflow forecasts have improved at nearly all locations.**
  - Bear Creek Nr Evergreen – 181% normal (Jun-Jul)
  - Elkhead Creek ab Long Gulch – 38% normal (Jun-Jul)



United States Department of Agriculture

Colorado Snow Surveys

# Water Availability Task Force Meeting

## June 17<sup>th</sup>, 2015

### NRCS Snow Survey and Water Supply Forecasting Program

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