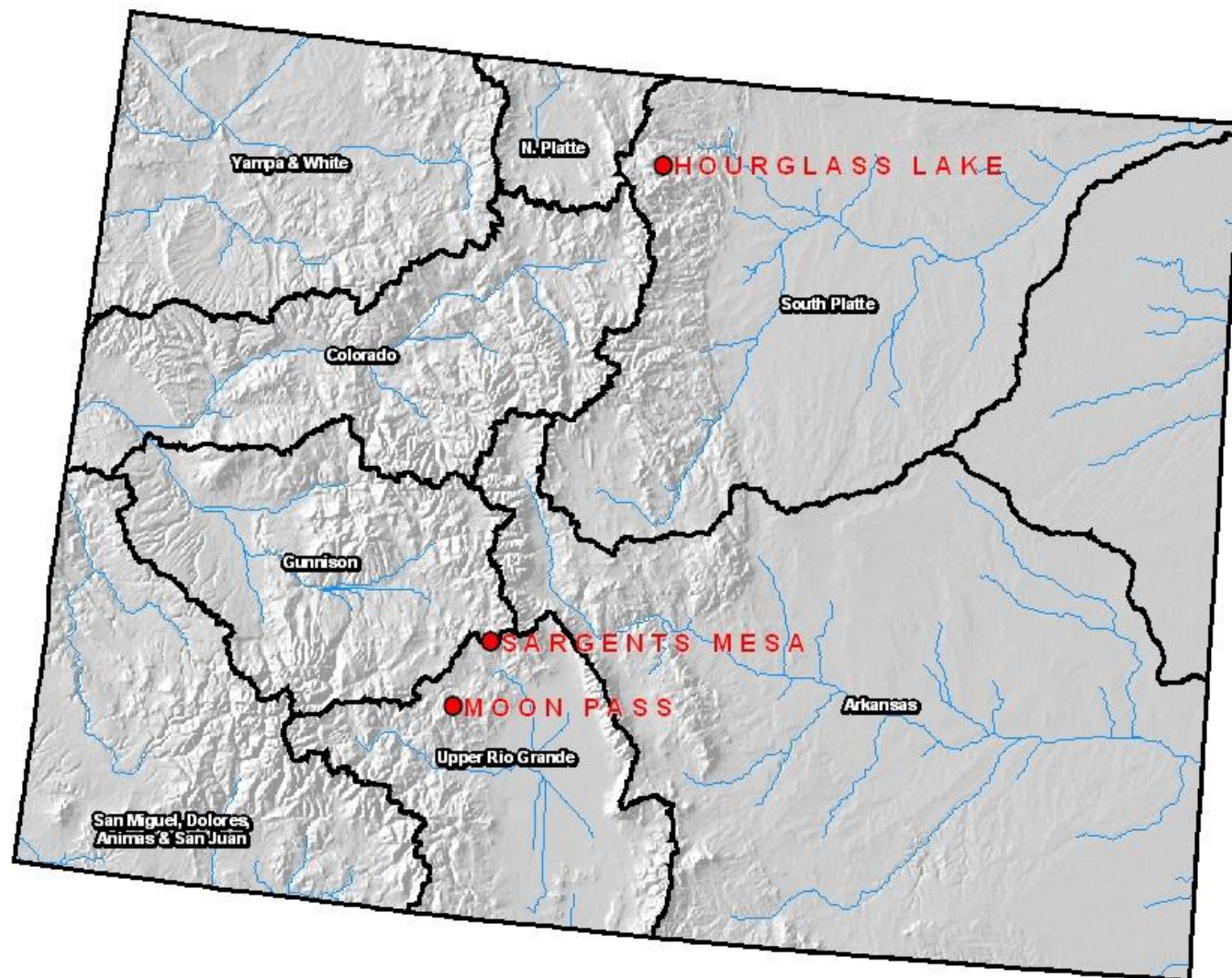


# NRCS – Snow Survey & Water Supply Forecasting

Mike Gillespie

Water Availability Task Force Meeting  
January 22, 2009

## Colorado SNOTEL Sites Installed in 2008





# The 2009 Water Year

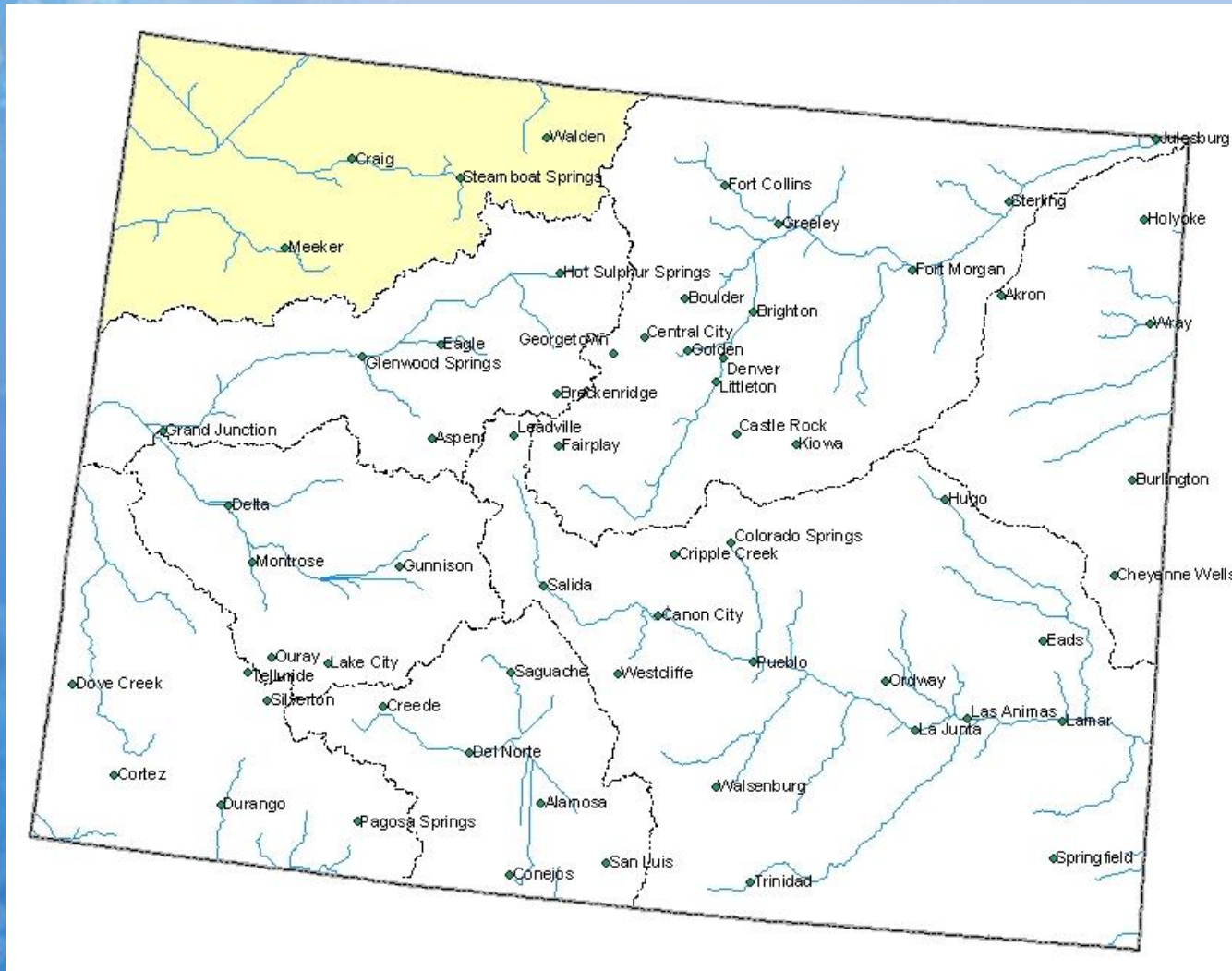
October – Near average precipitation during the first half of the month, followed by dry conditions during the second half. Below average snowpack accumulations during the month.

November – Below average precipitation statewide. Minimal gains in mountain snowpack.

December – Heavy snow storms in the southern mountains. Nearly a repeat of last year!!

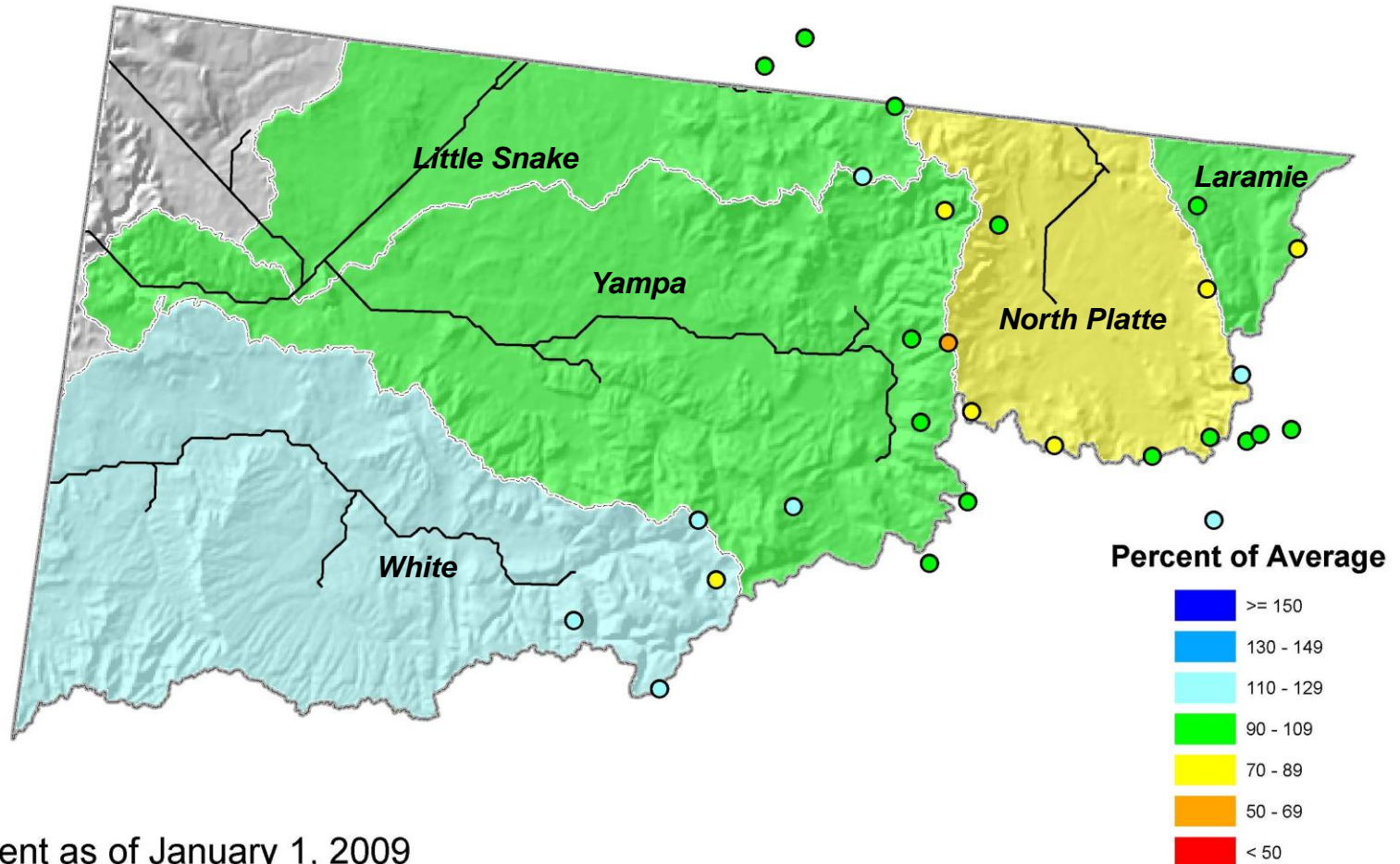
January – A good start to the month, followed by a “January Thaw”.

# Yampa, White & North Platte River Basins Summary



# Yampa, White and North Platte River Basins Snowpack Map

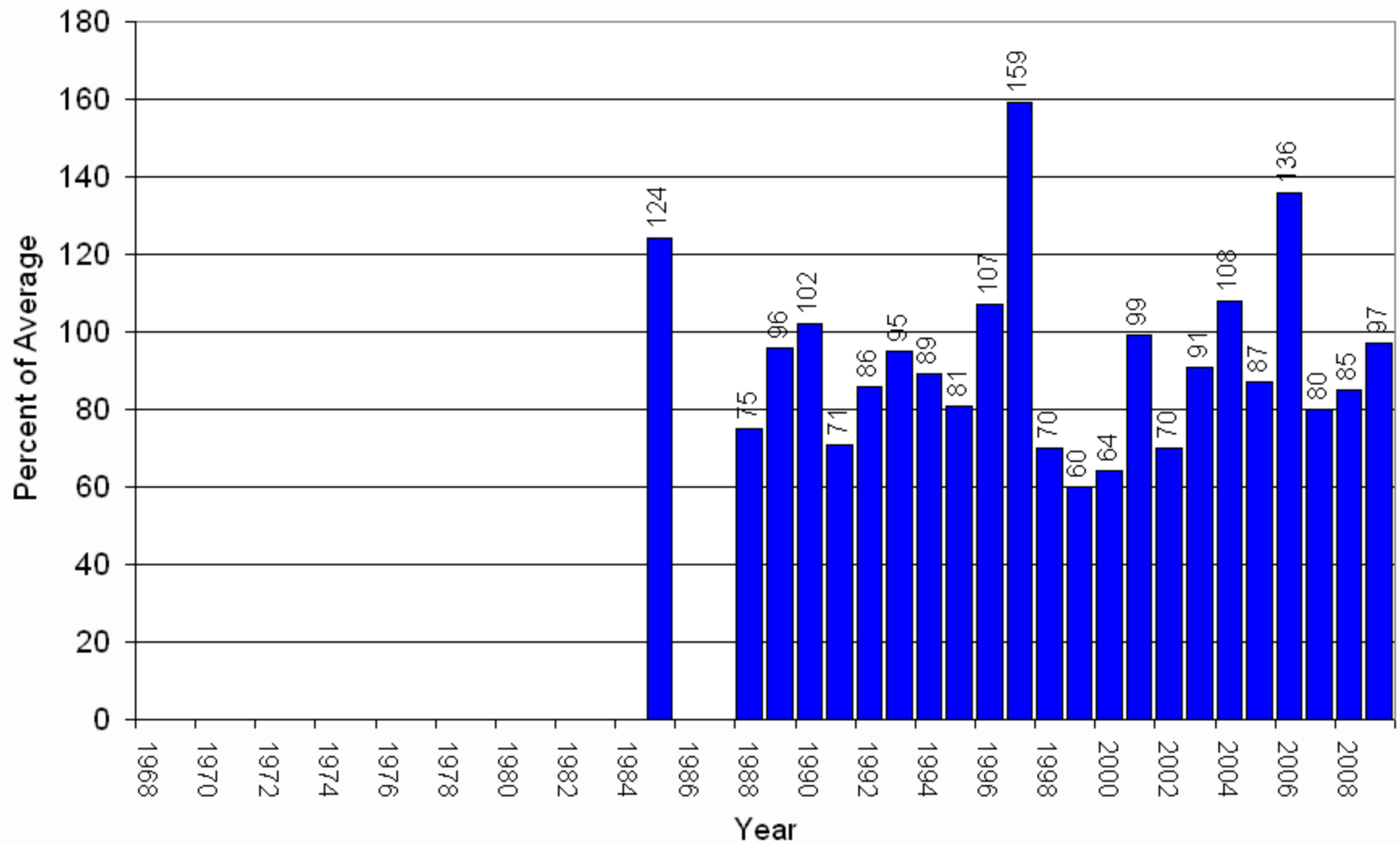
*Provisional Data  
Subject to Revision*



Current as of January 1, 2009

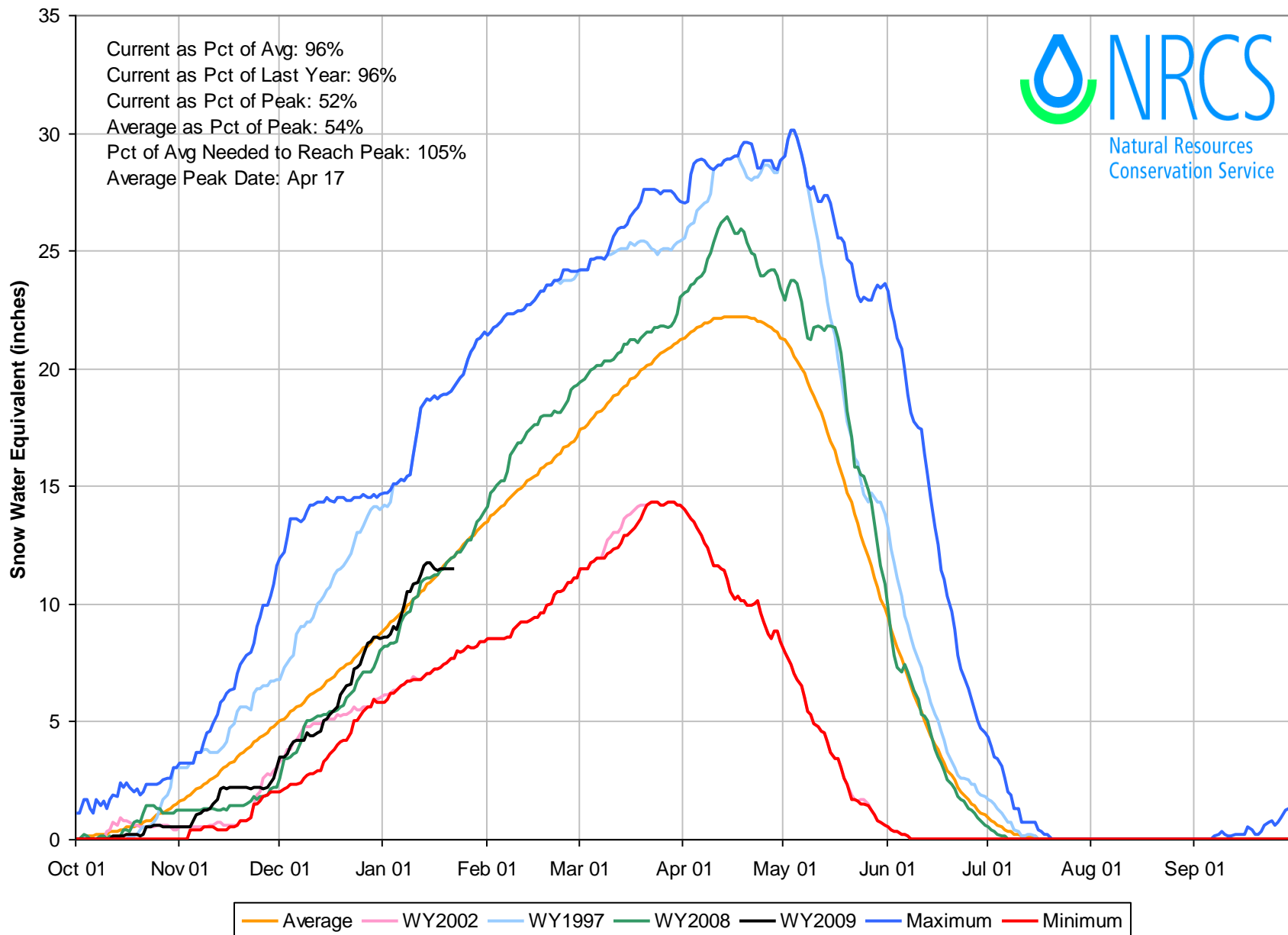


## January 1 Total Yampa & White River Basins Snowpack



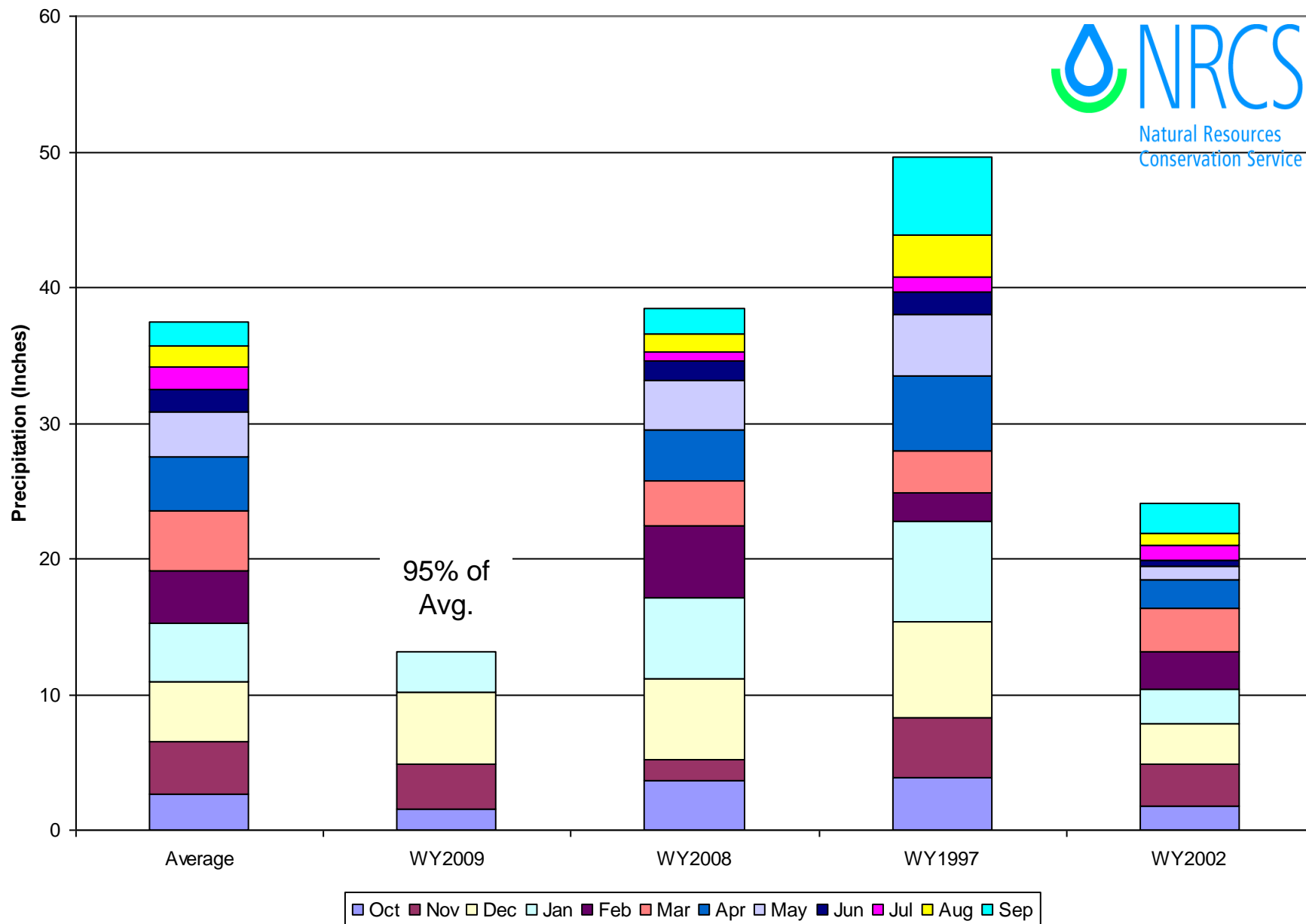
## Yampa, White & North Platte River Basins High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*



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

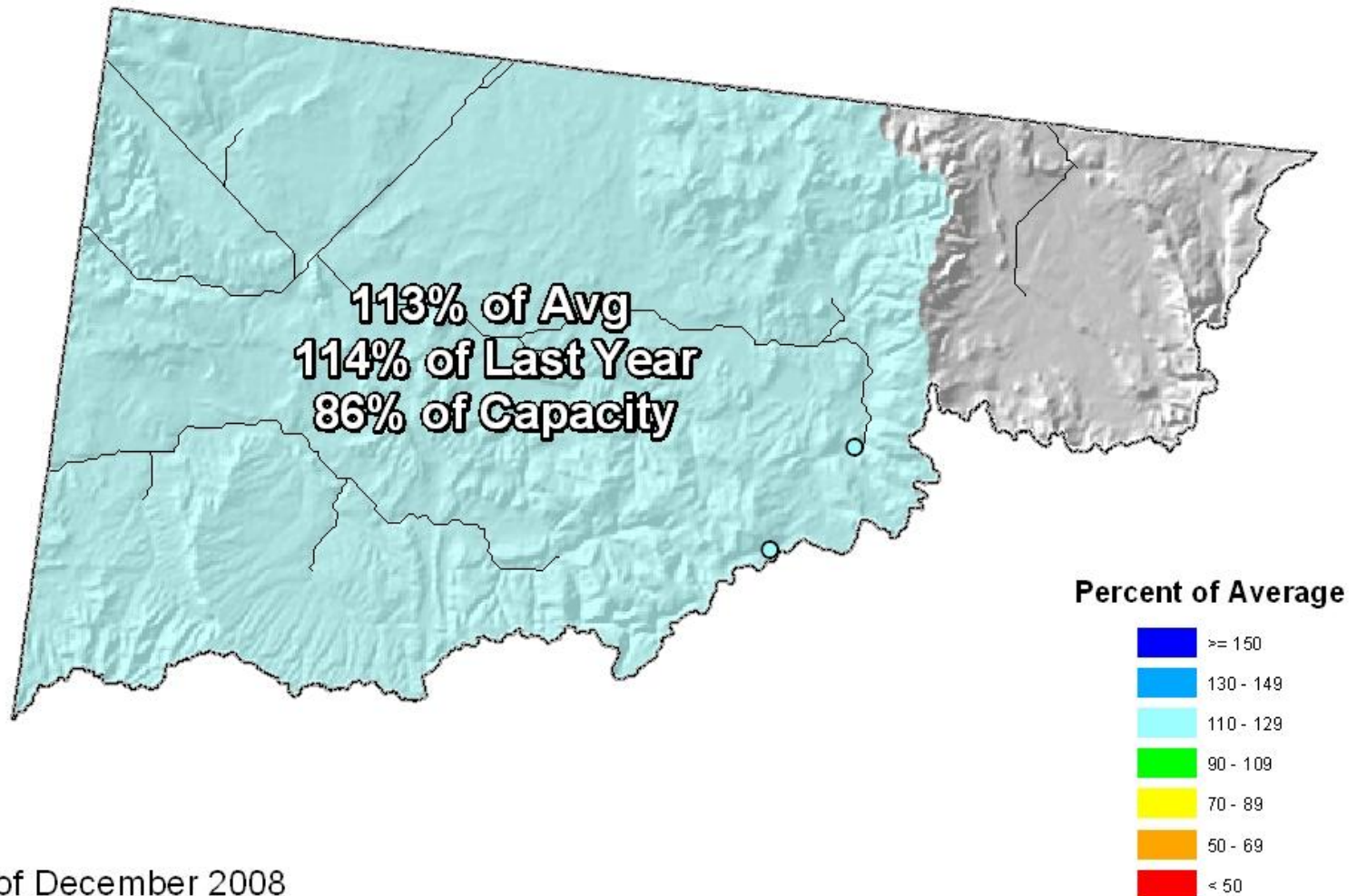
*Based on Provisional SNOTEL data as of Jan 22, 2009*





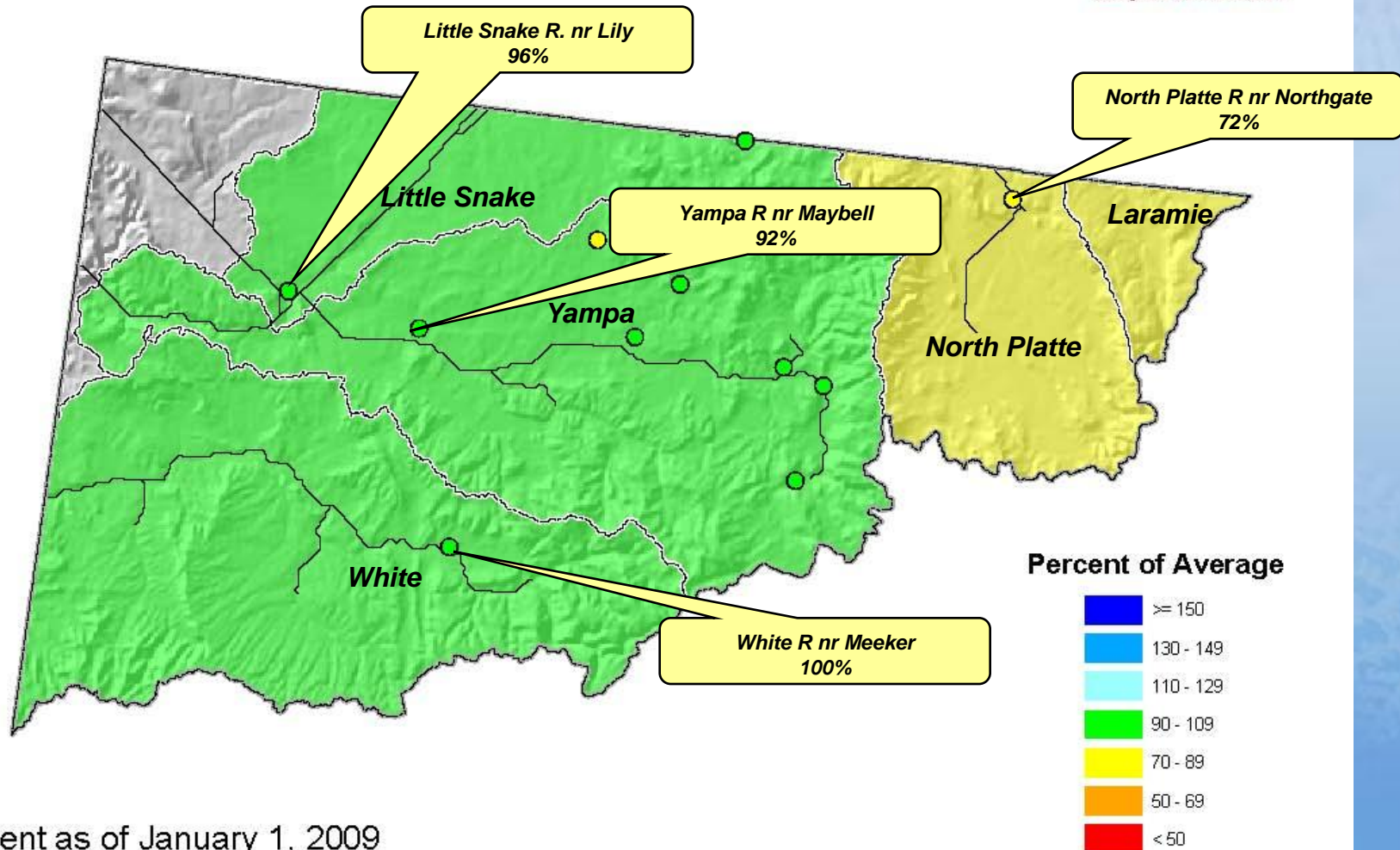
# Yampa & White River Basins Reservoir Storage Map

*Provisional Data  
Subject to Revision*



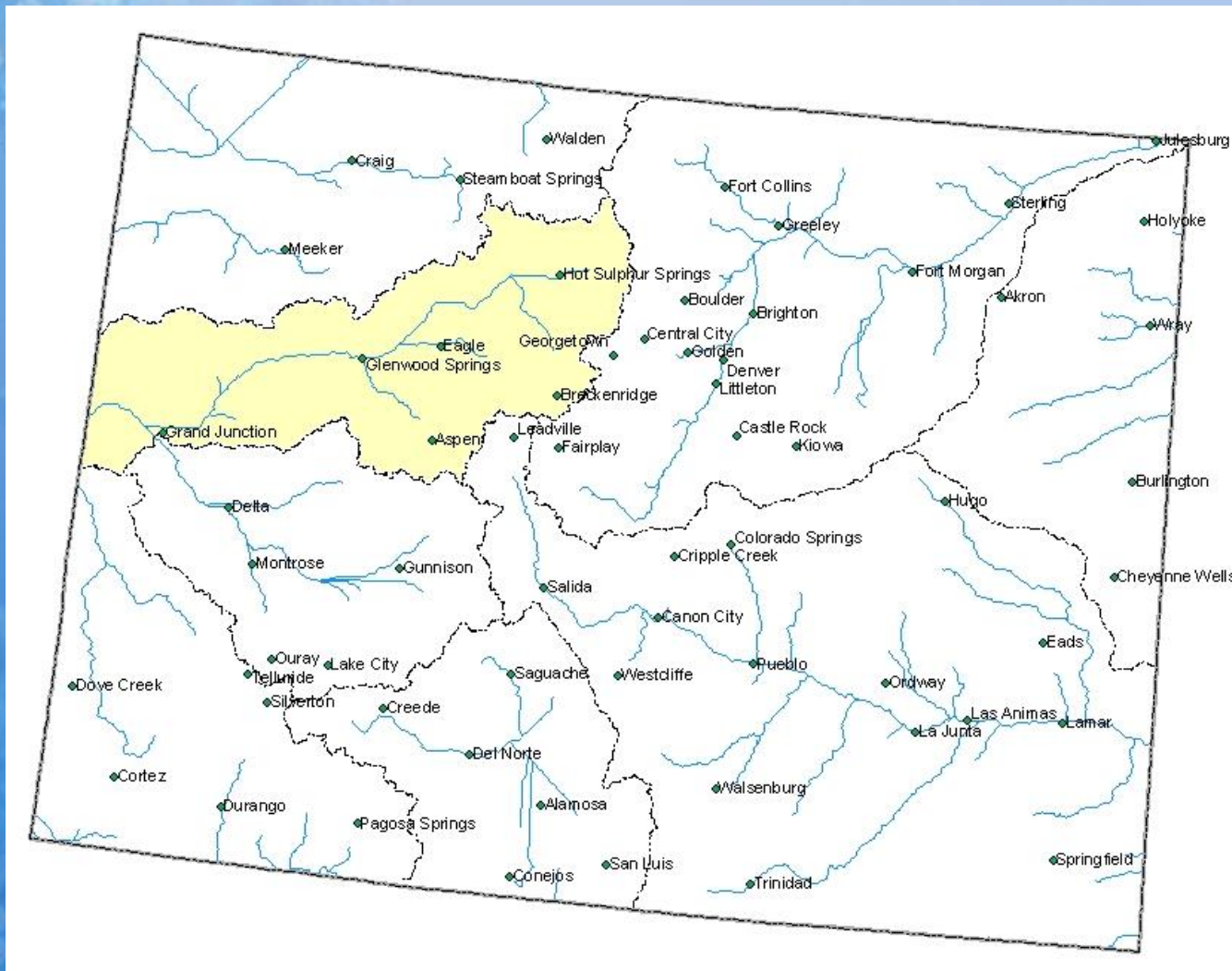
# Yampa, White and North Platte River Basins Streamflow Map

*Provisional Data  
Subject to Revision*



Current as of January 1, 2009

# Colorado River Basin Summary



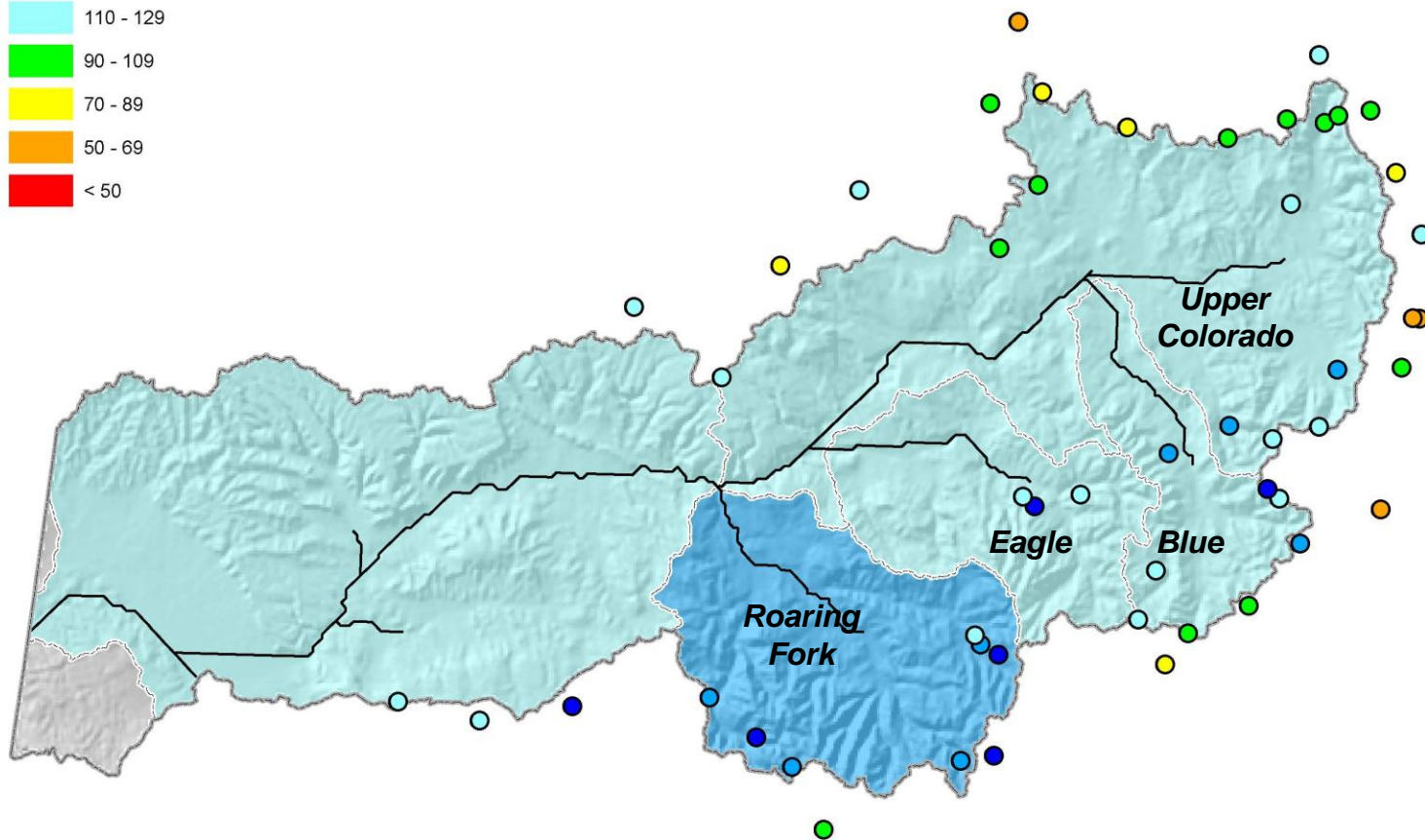


# Colorado River Basin Snowpack Map

## Percent of Average



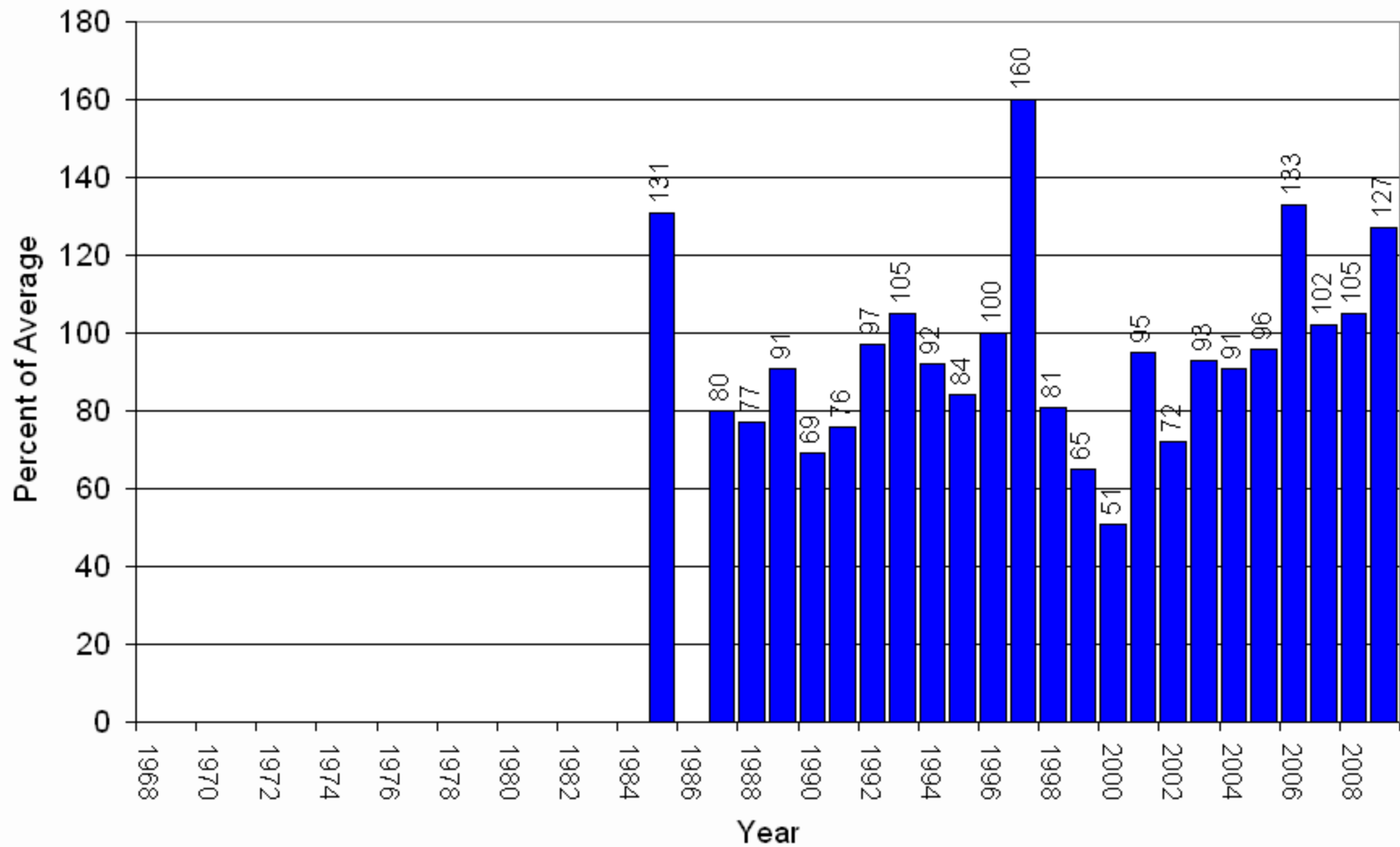
*Provisional Data  
Subject to Revision*



Current as of January 1, 2009

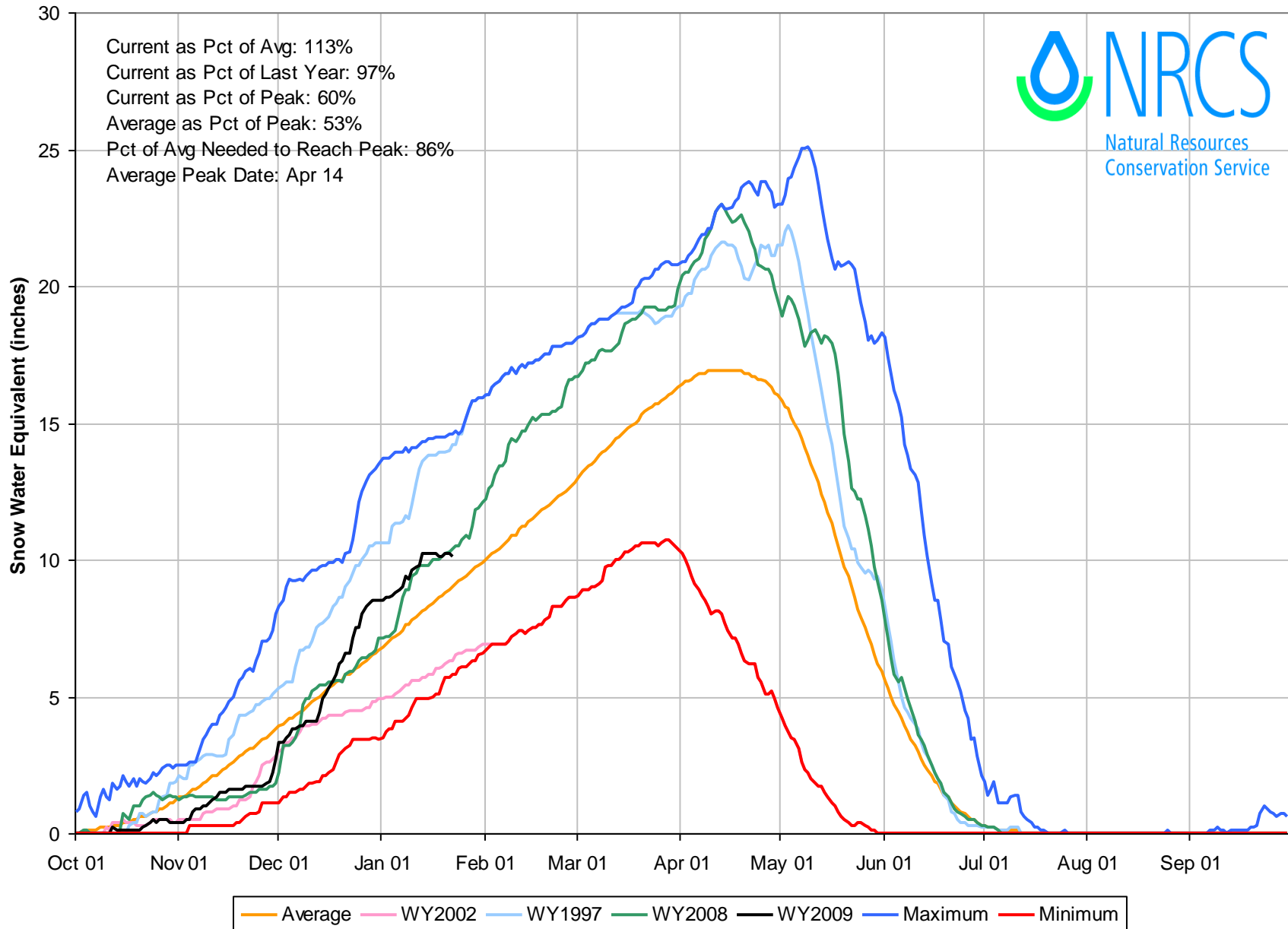


## January 1 Total Colorado River Basin Snowpack



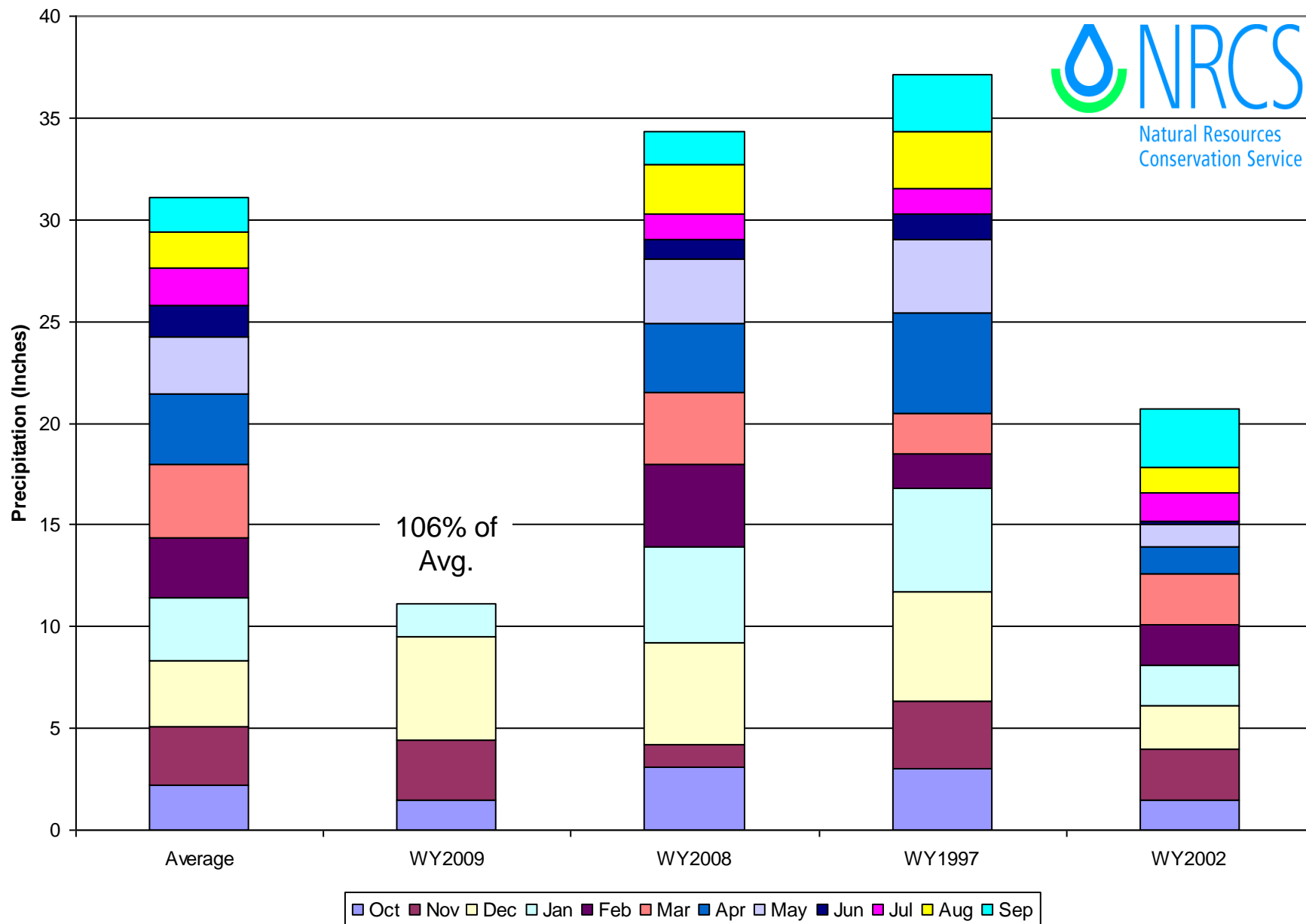
## Upper Colorado River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*



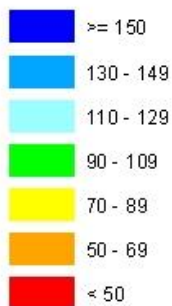
# Upper Colorado River Basin High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*

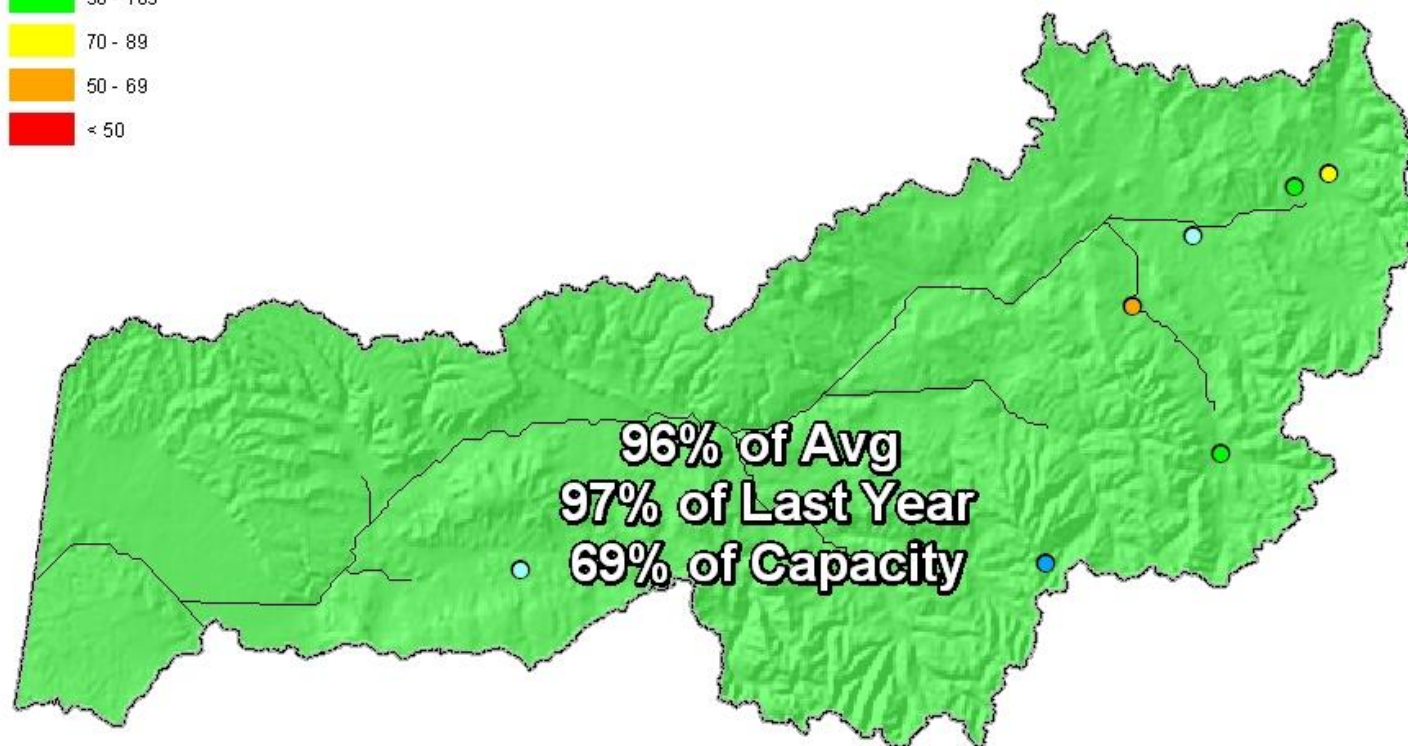


# Colorado River Basin Reservoir Storage Map

## Percent of Average



*Provisional Data  
Subject to Revision*



End of December 2008

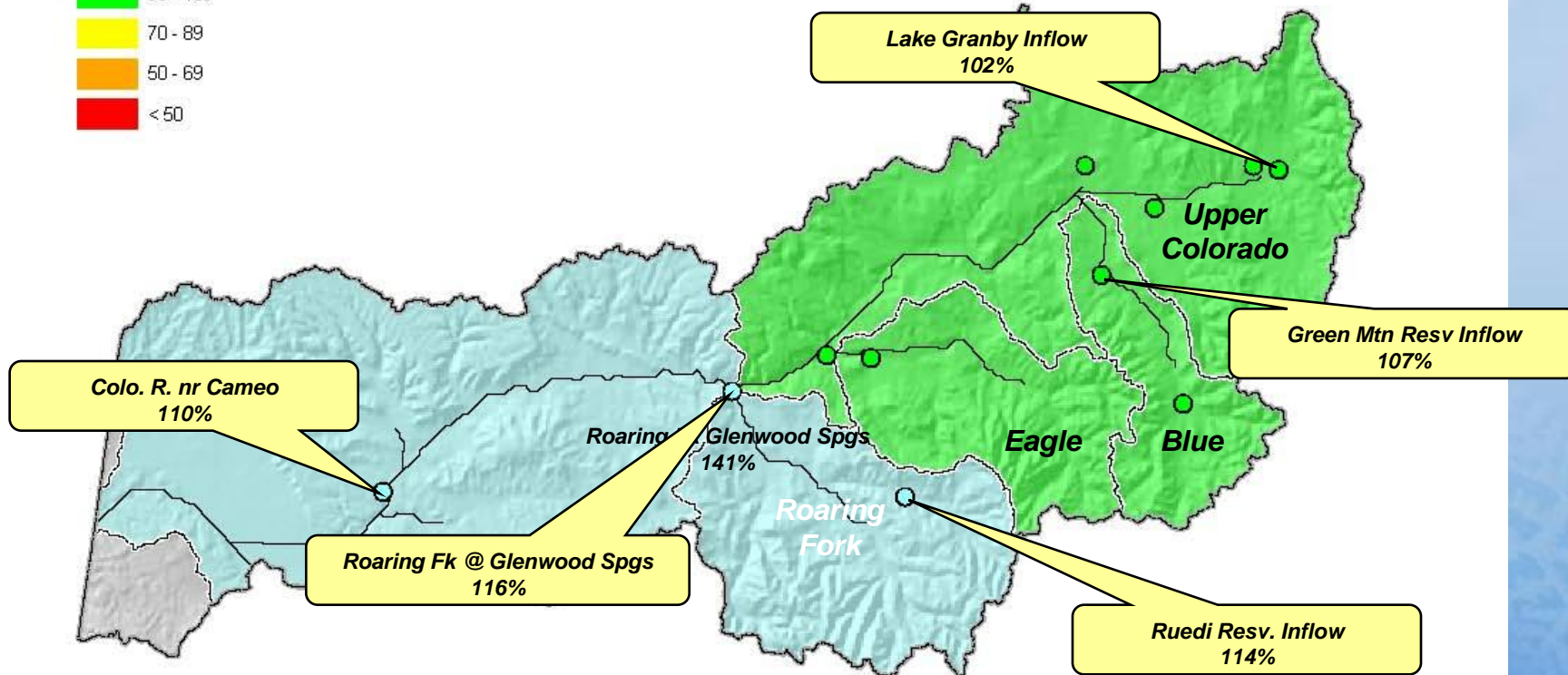


# Colorado River Basin Streamflow Forecast Map

## Percent of Average

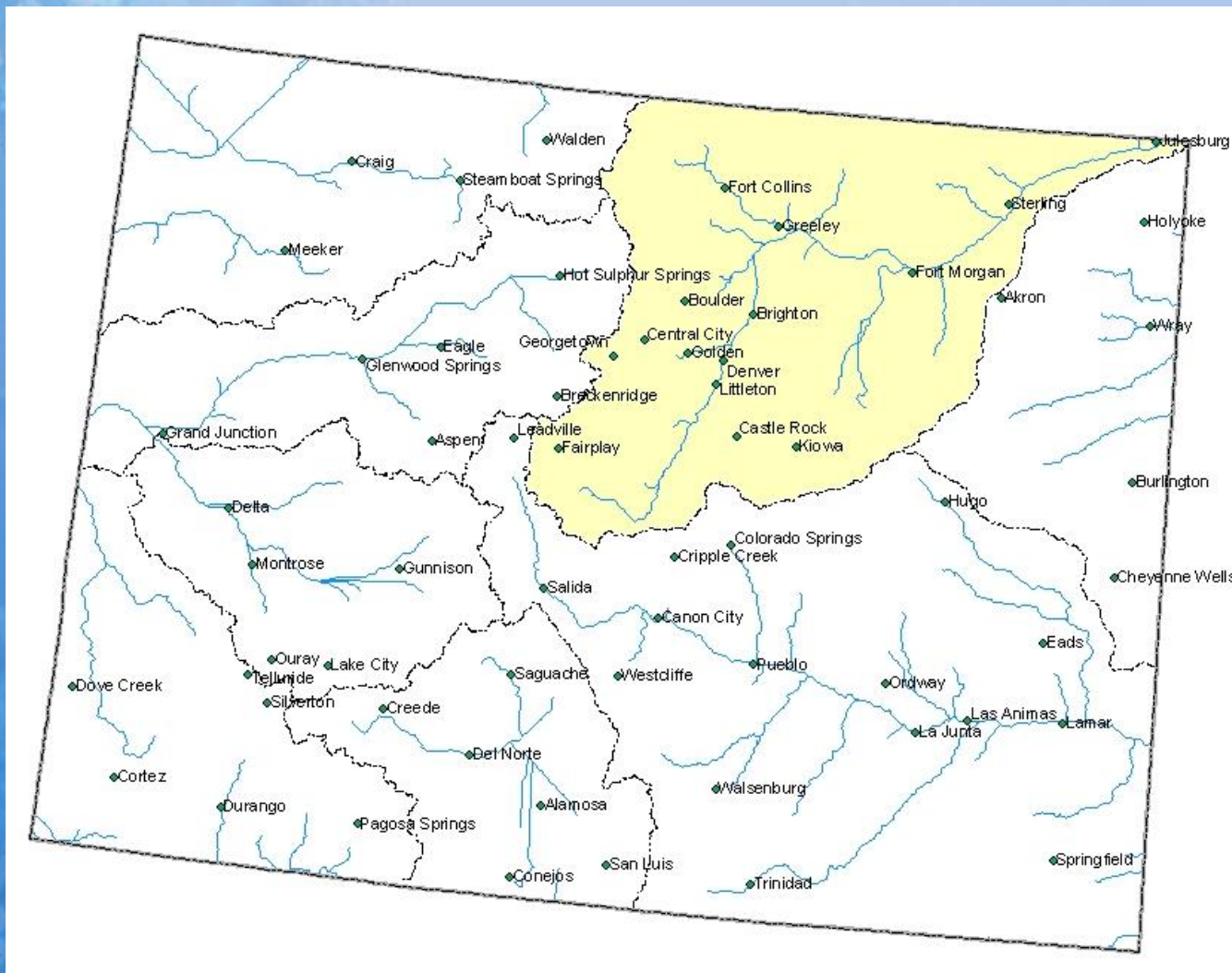


*Provisional Data  
Subject to Revision*



Current as of January 1, 2009

# South Platte River Basin Summary

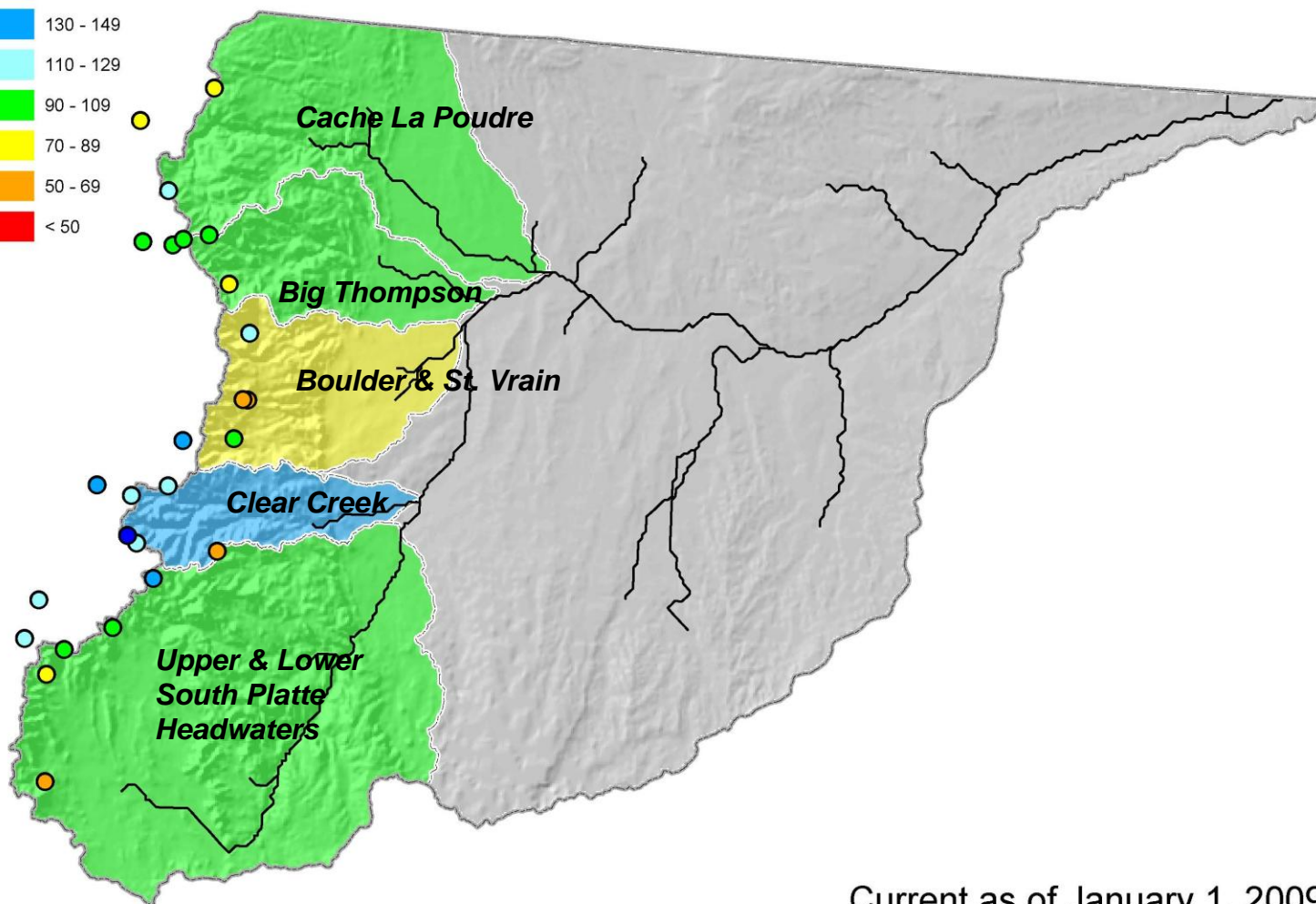


# South Platte River Basin Snowpack Map

Percent of Average

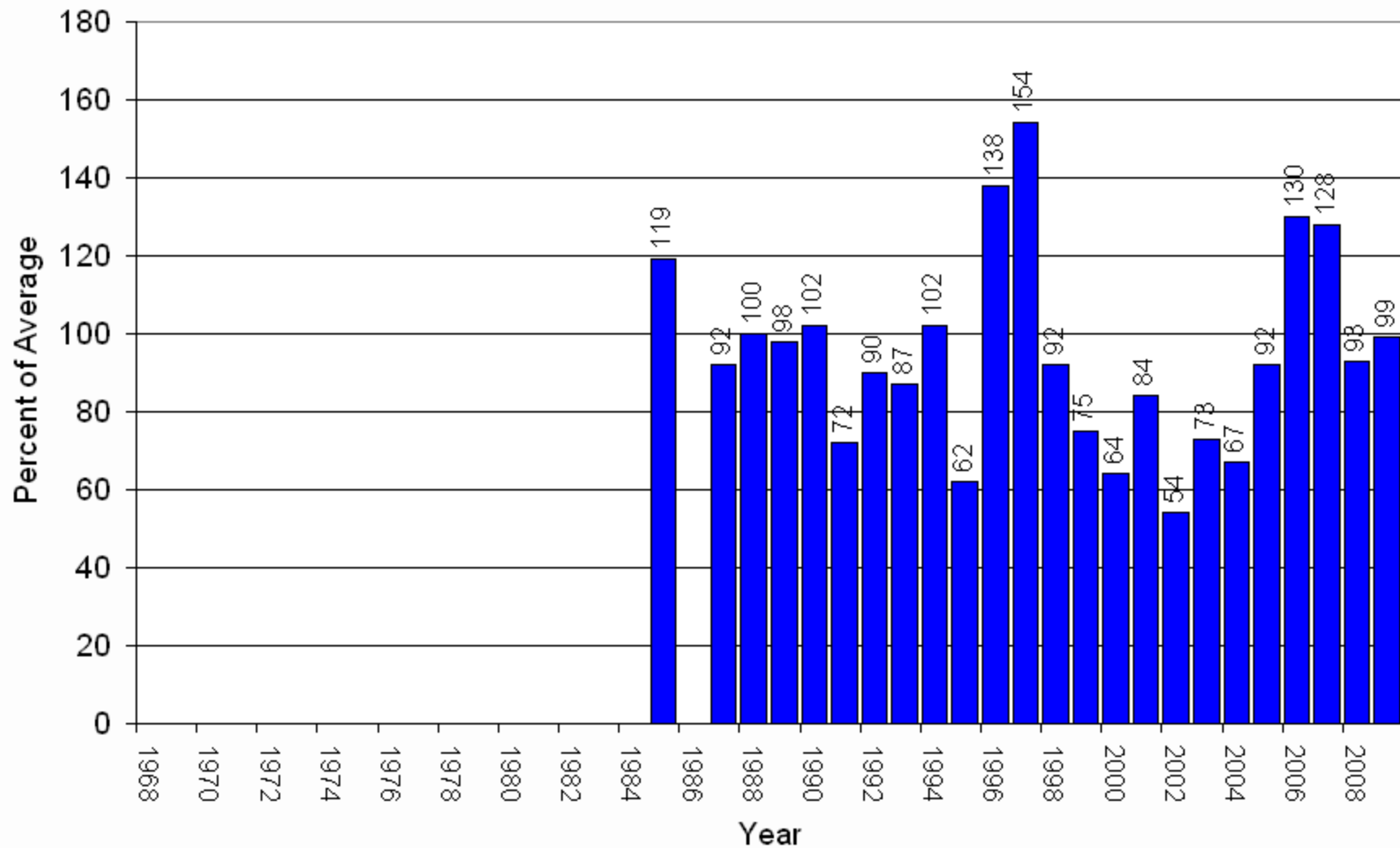


*Provisional Data  
Subject to Revision*



Current as of January 1, 2009

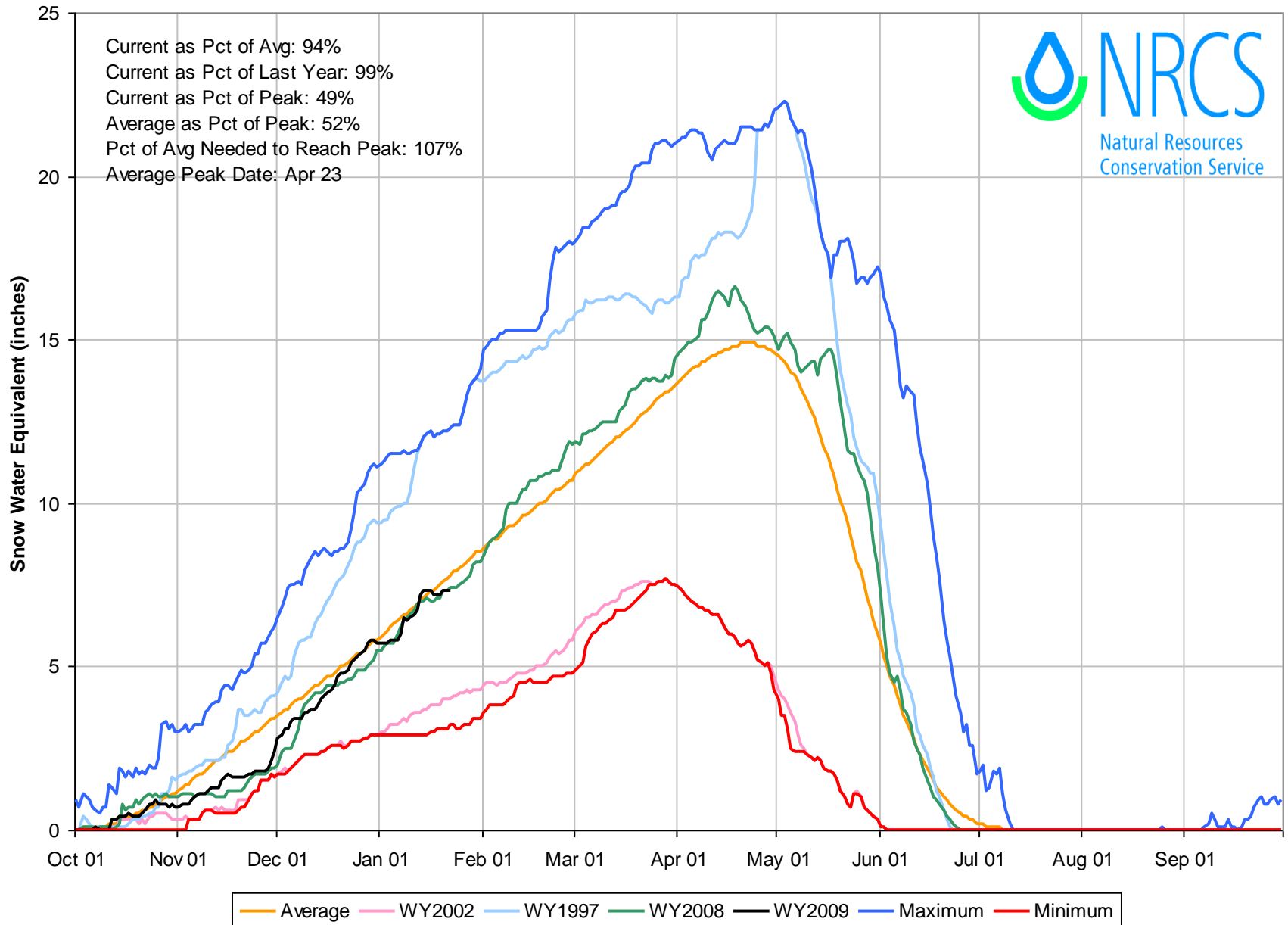
## January 1 Total South Platte River Basin Snowpack





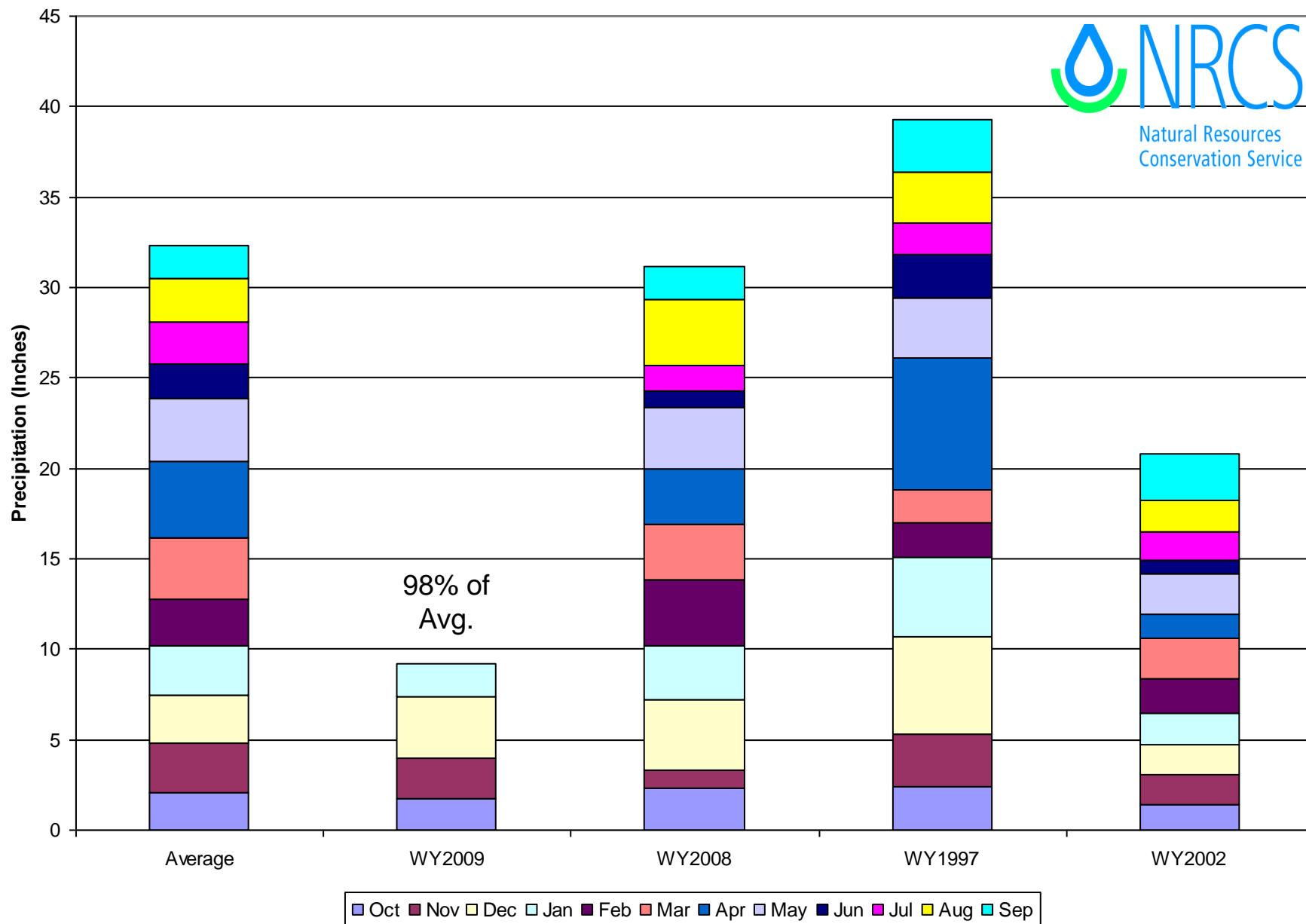
## South Platte River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*



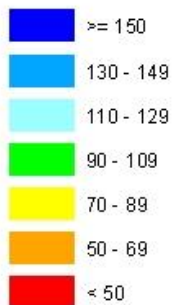
# South Platte River Basin High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*

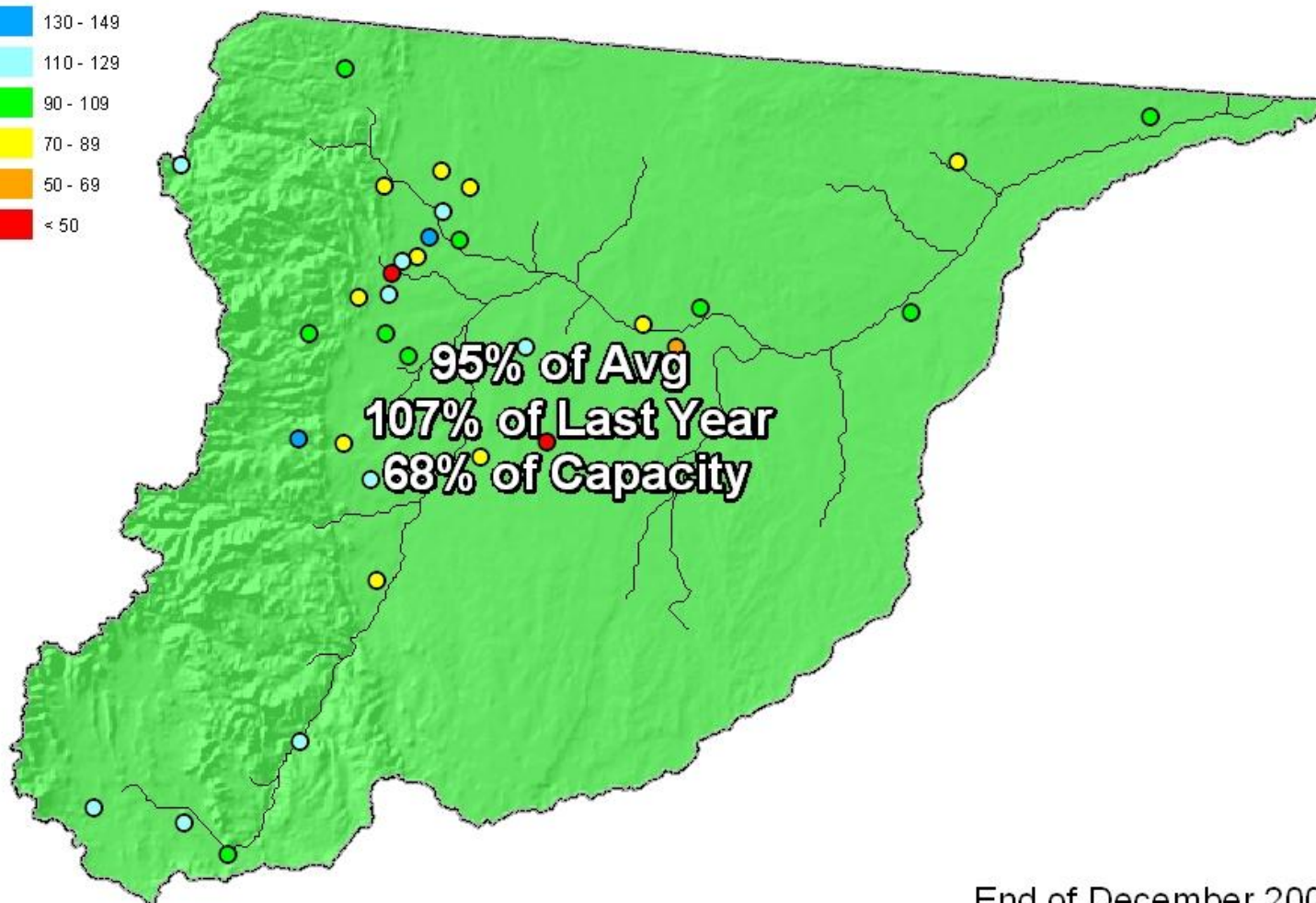


# South Platte River Basin Reservoir Storage Map

## Percent of Average



*Provisional Data  
Subject to Revision*



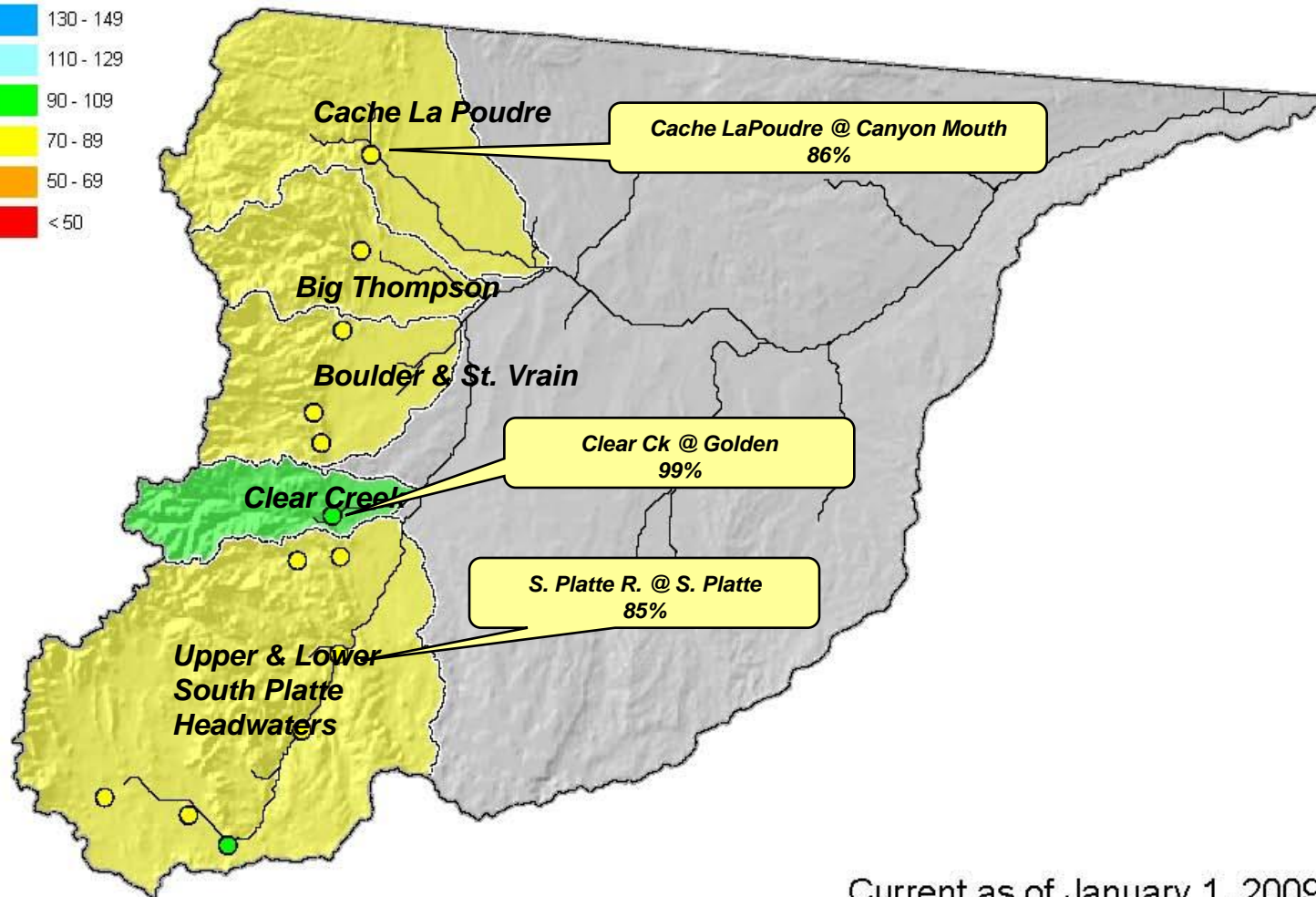
End of December 2008

# South Platte River Basin Streamflow Forecast Map

## Percent of Average



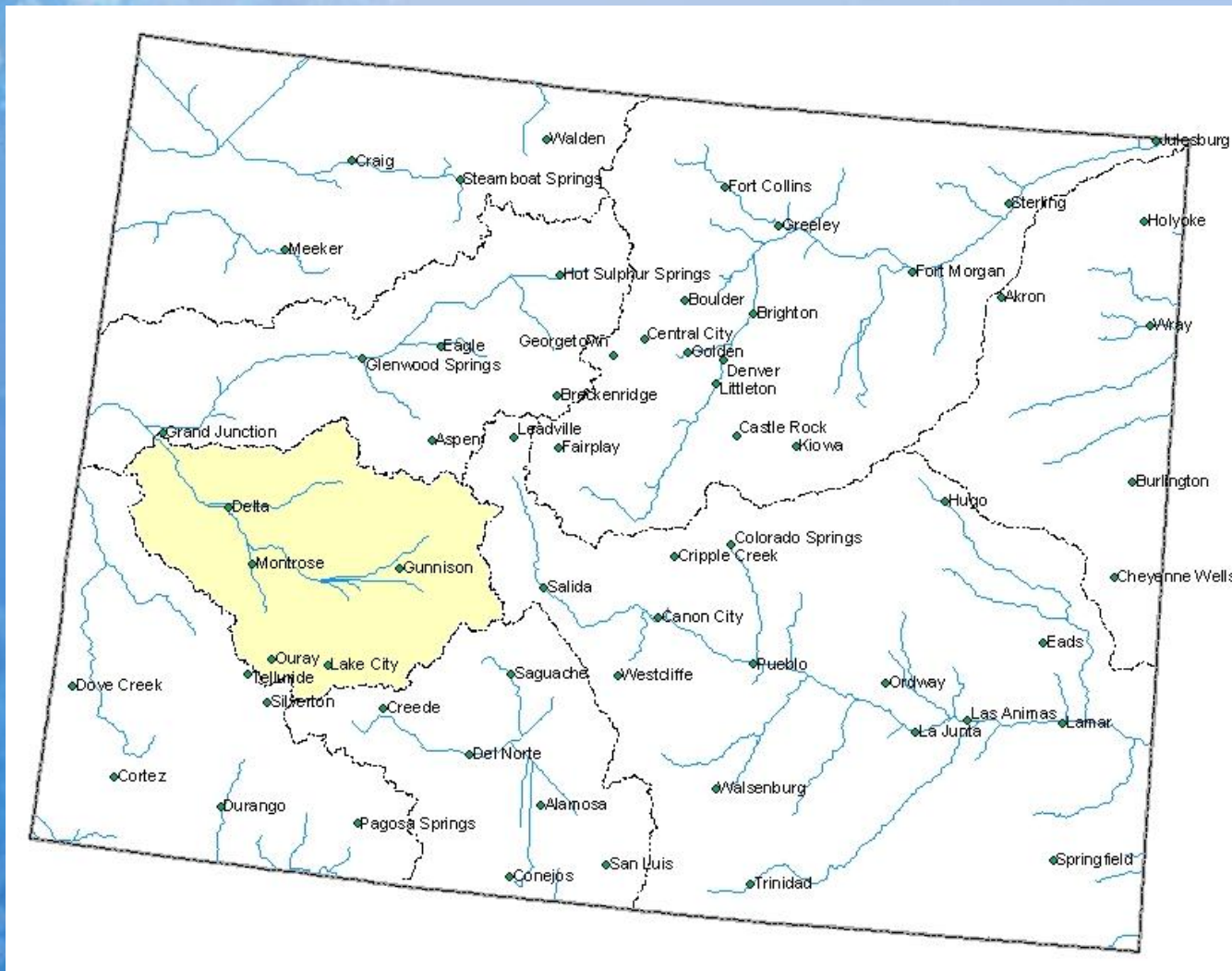
*Provisional Data  
Subject to Revision*



Current as of January 1, 2009

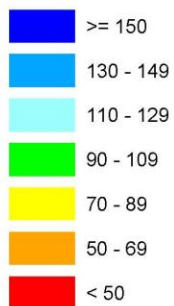


# Gunnison River Basin Summary

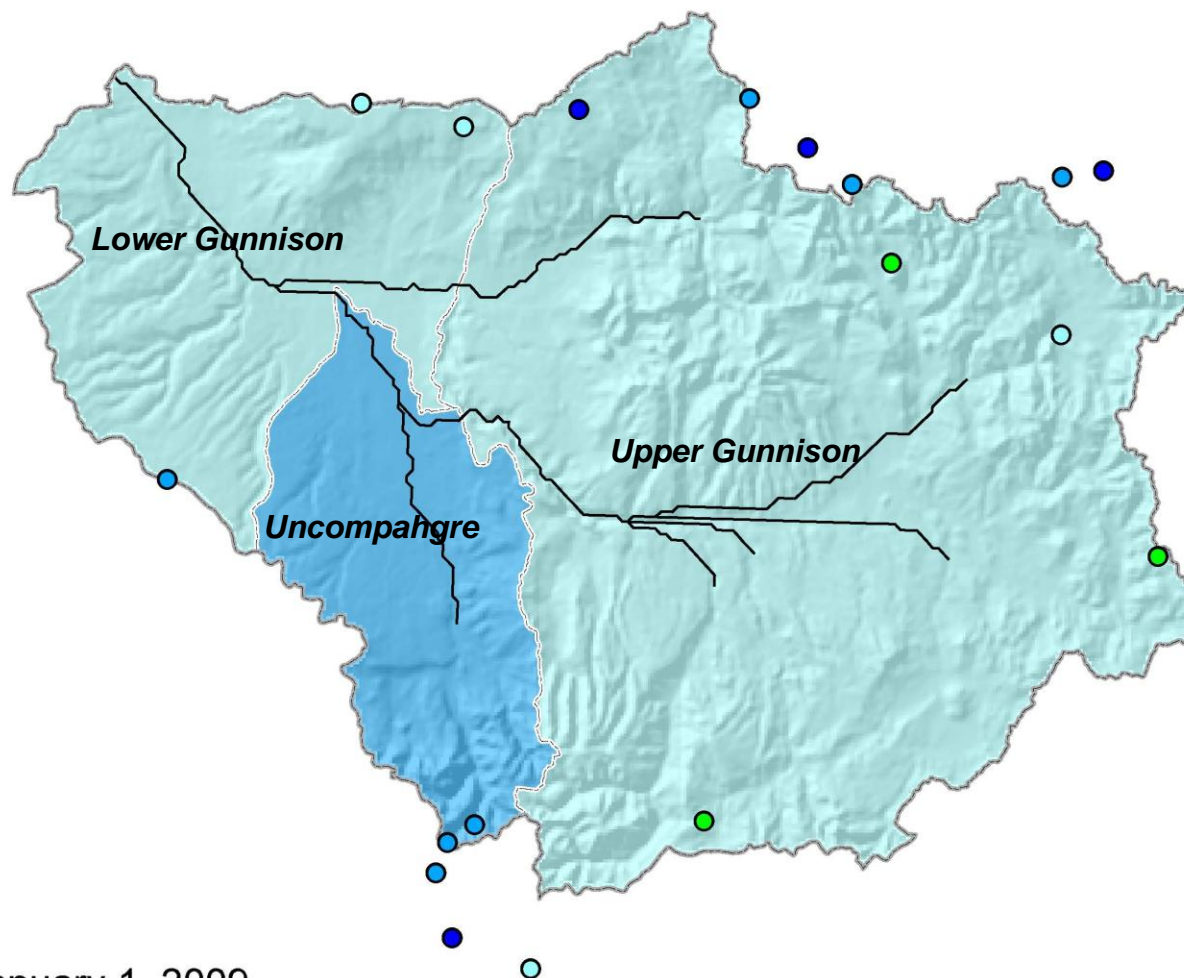


# Gunnison River Basin Snowpack Map

## Percent of Average

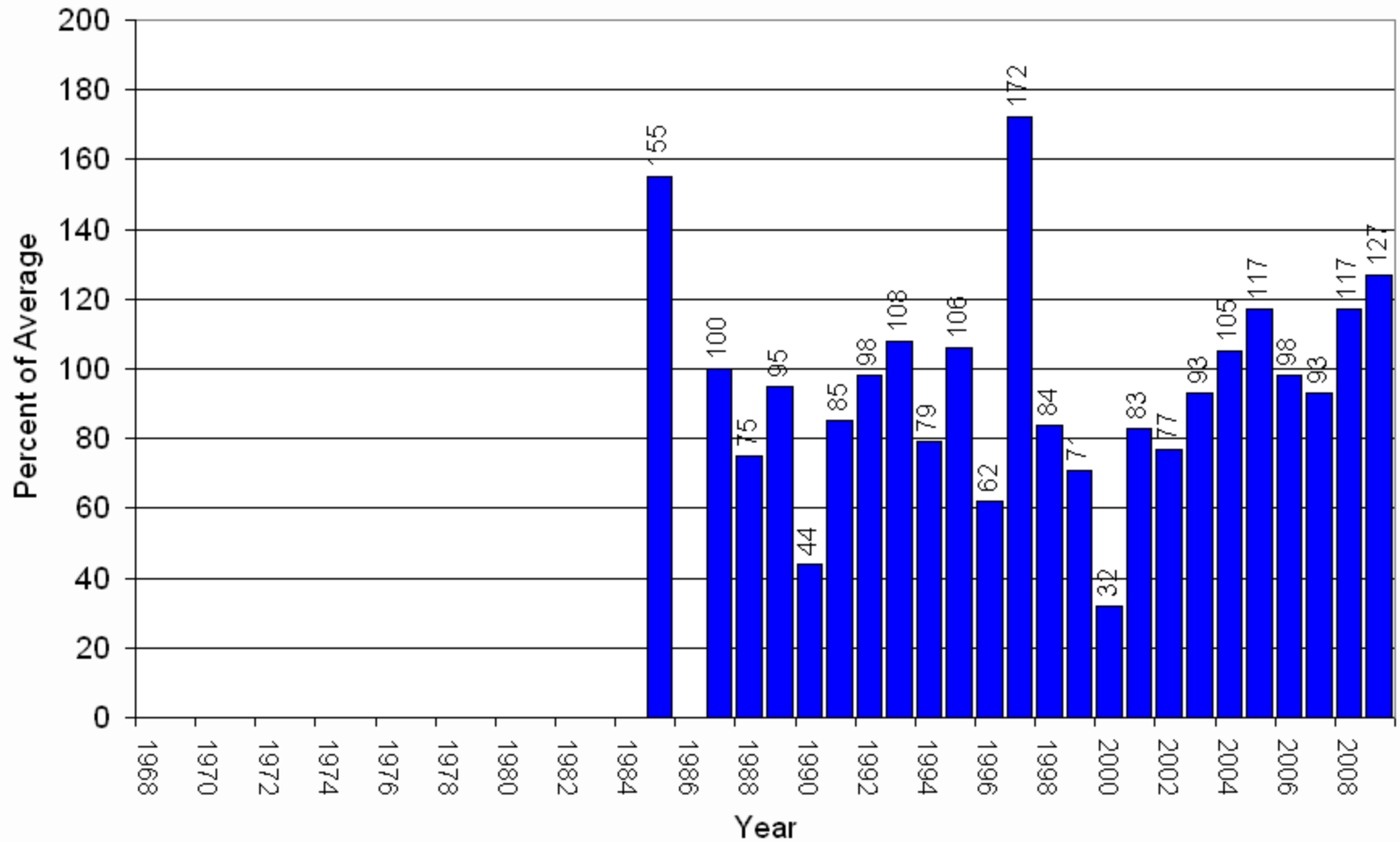


*Provisional Data  
Subject to Revision*



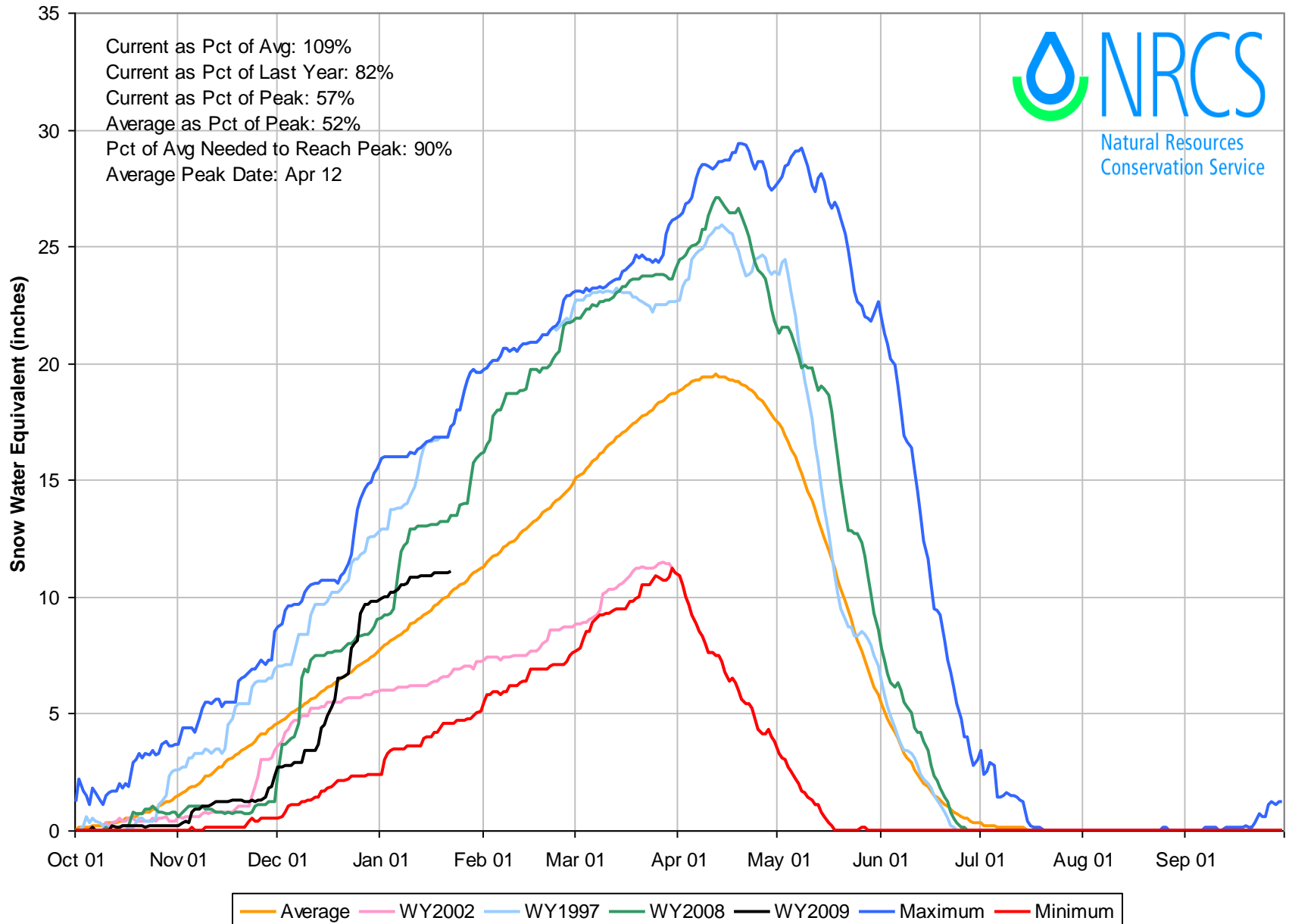
Current as of January 1, 2009

## January 1 Total Gunnison River Basin Snowpack



## Gunnison River Basin High/Low Snowpack Summary

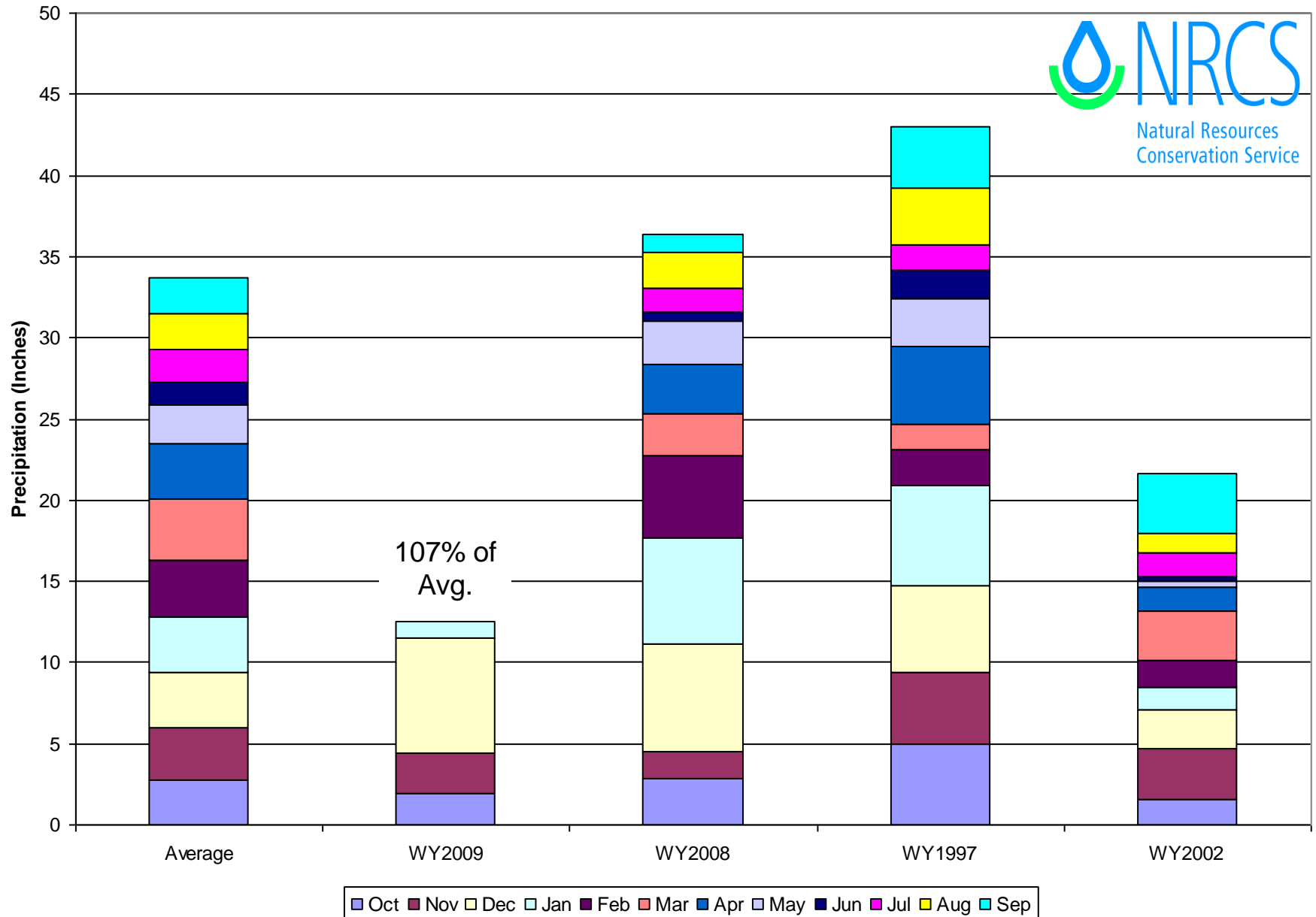
*Based on Provisional SNOTEL data as of Jan 22, 2009*





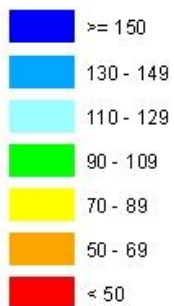
# Gunnison River Basin High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*

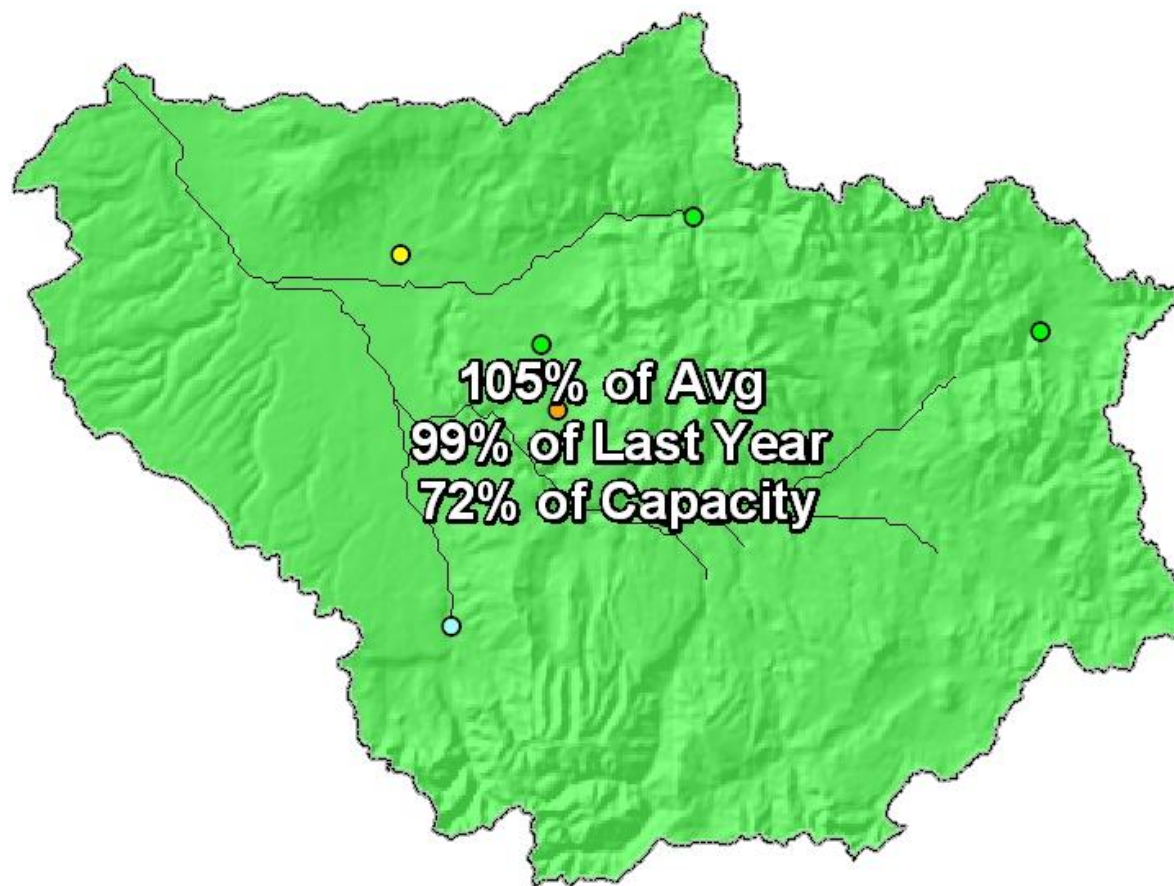


# Gunnison River Basin Reservoir Storage Map

## Percent of Average



*Provisional Data  
Subject to Revision*



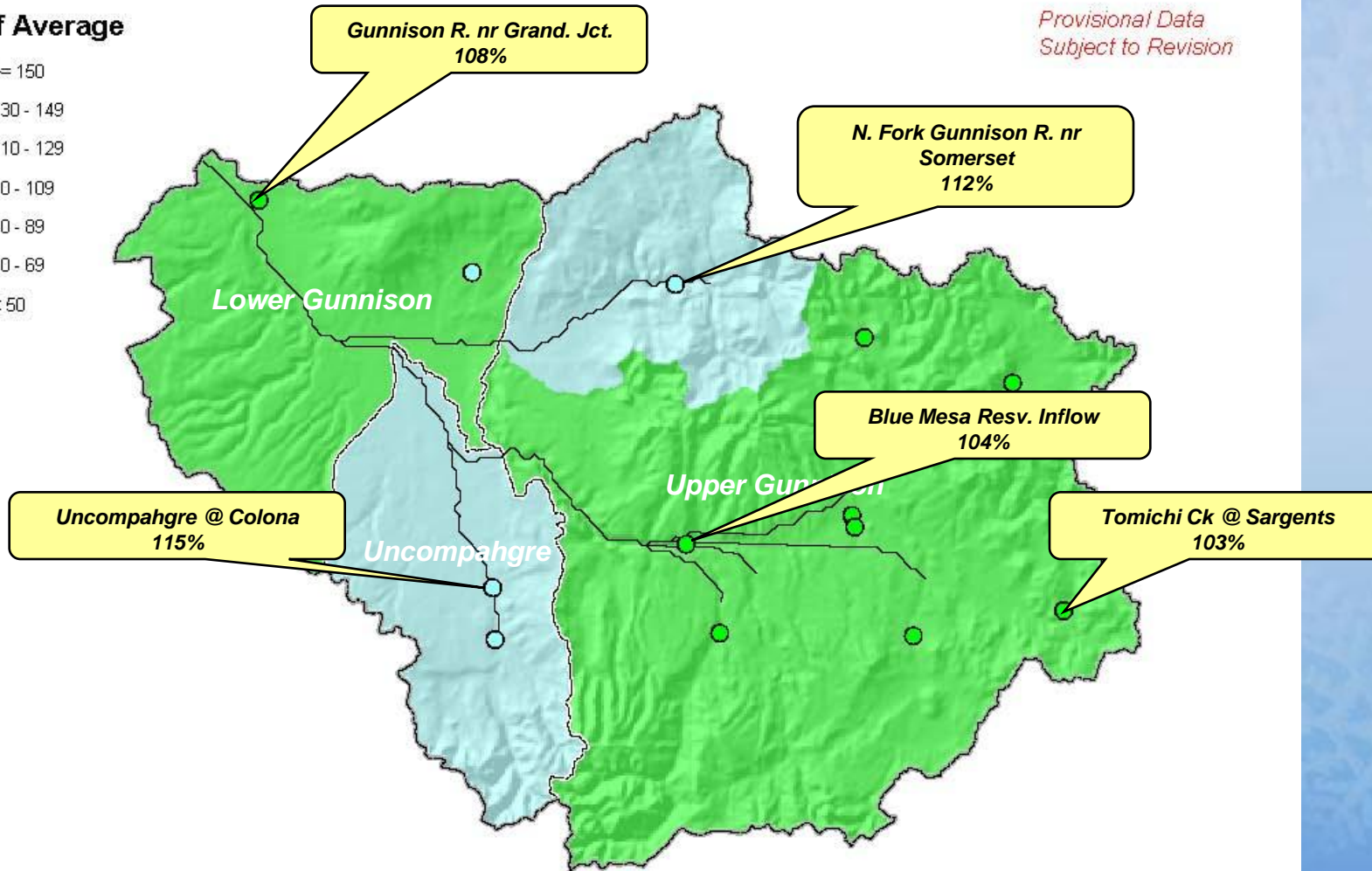
End of December 2008

# Gunnison River Basin Streamflow Forecast Map

## Percent of Average

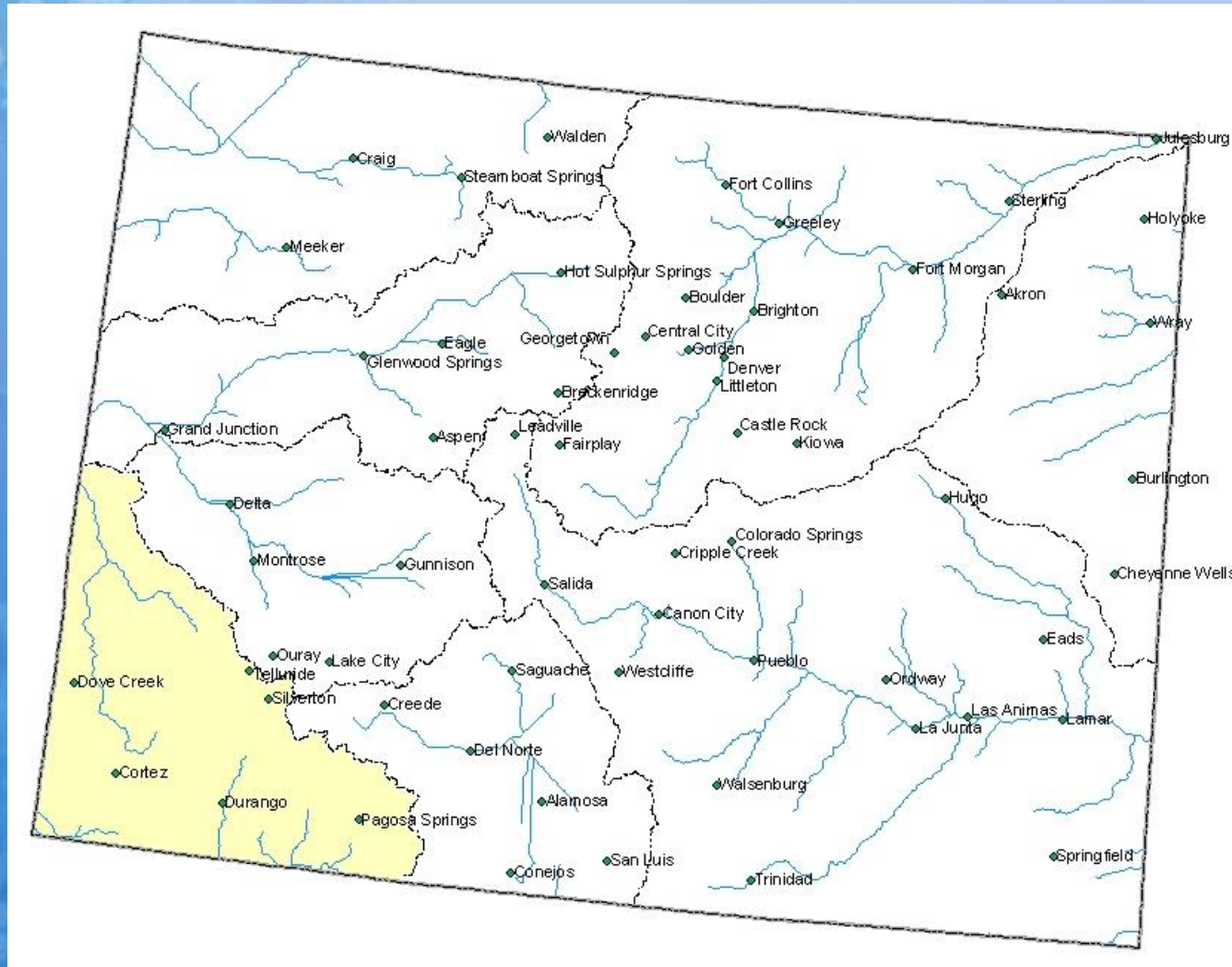


*Provisional Data  
Subject to Revision*



Current as of January 1, 2009

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



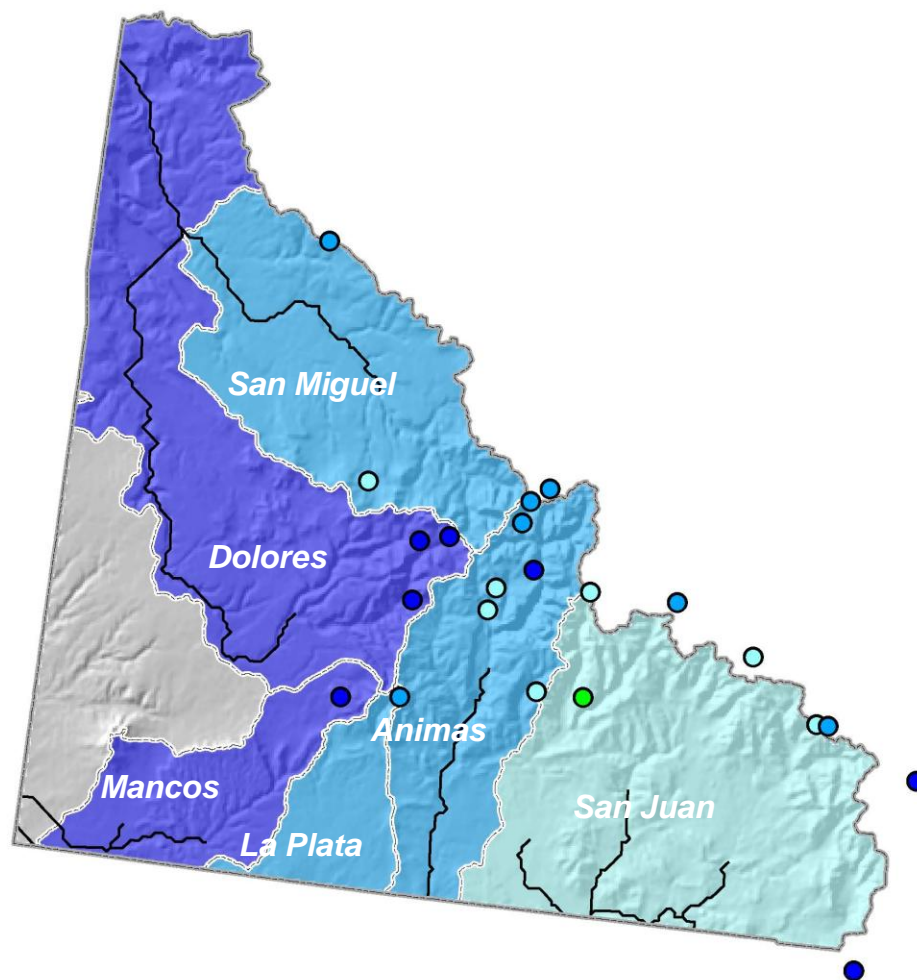


# San Miguel, Dolores, Animas and San Juan River Basins Snowpack Map

Percent of Average

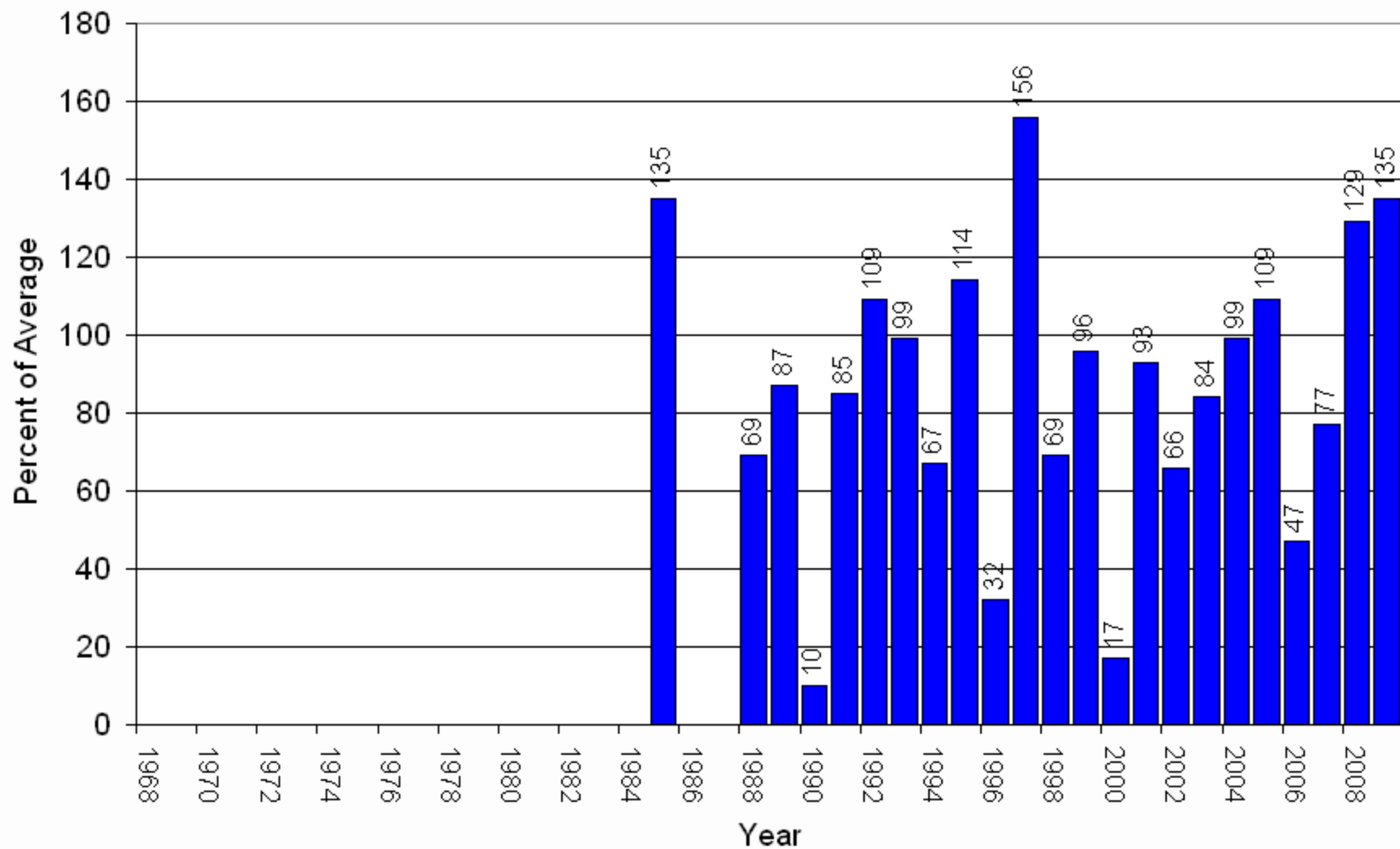


*Provisional Data  
Subject to Revision*



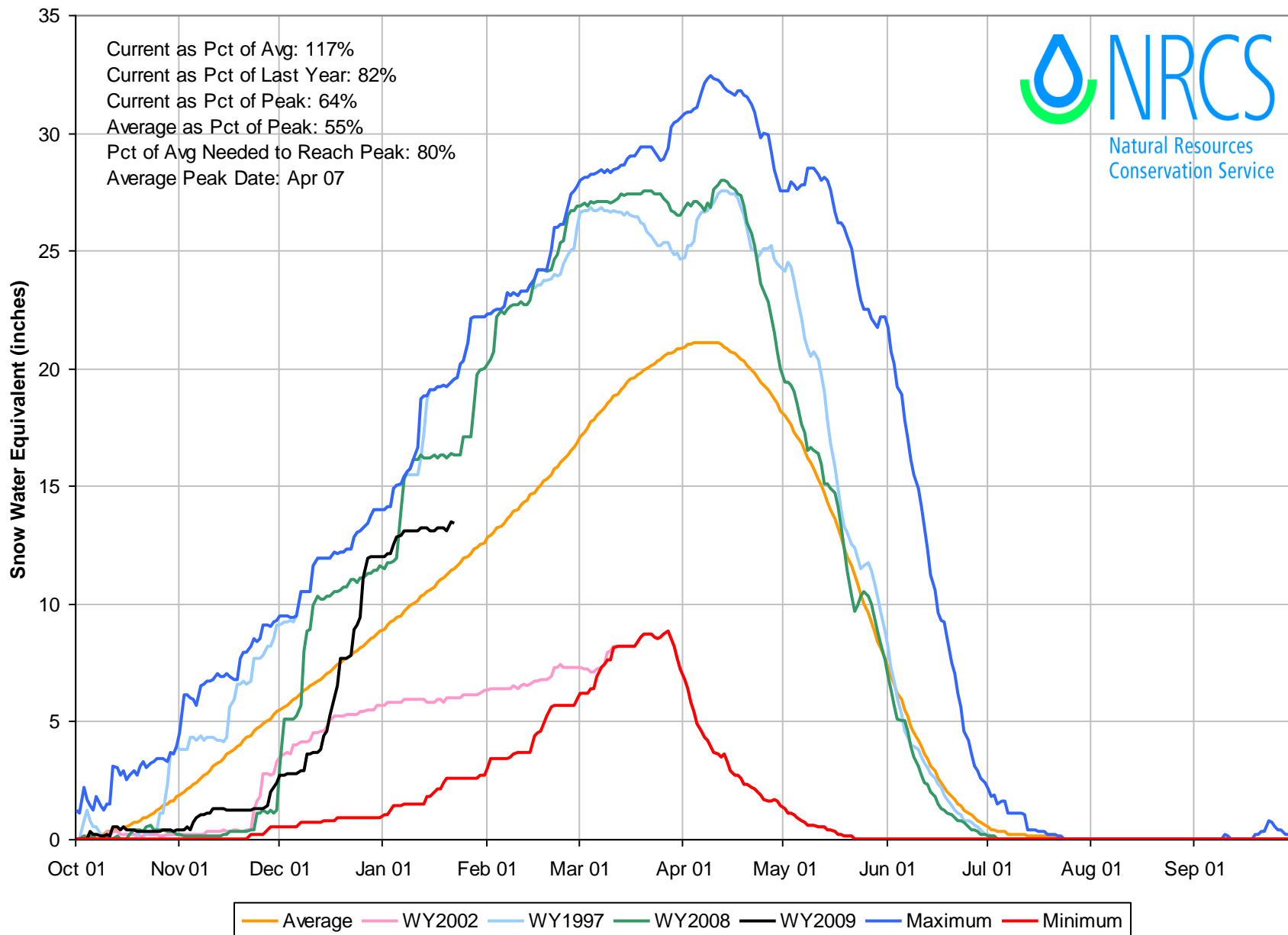
Current as of January 1, 2009

## January 1 Total San Miguel, Dolores, Animas & San Juan River Basins Snowpack



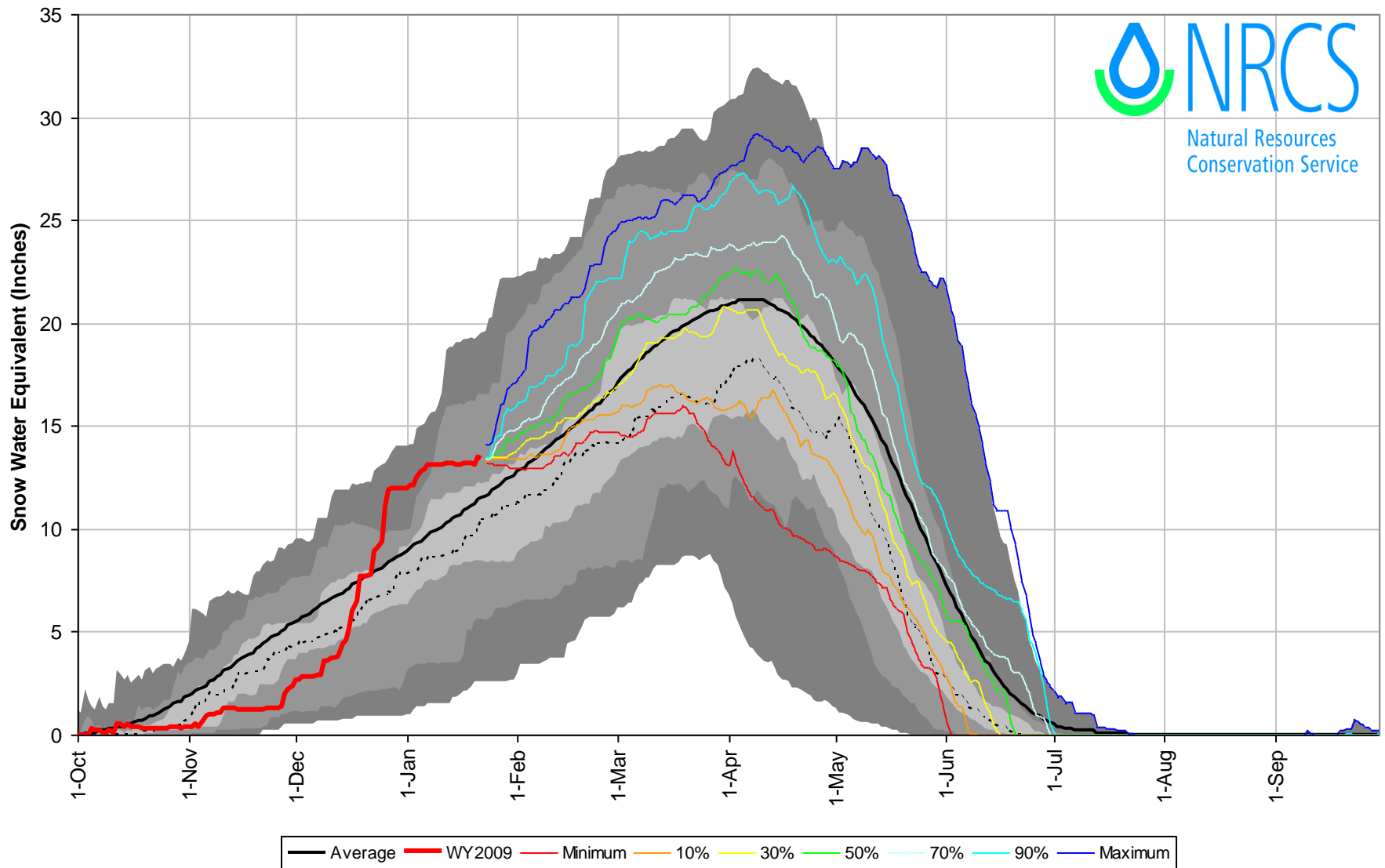
# San Miguel, Dolores, Animas & San Juan River Basins High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*



# San Miguel, Dolores, Animas & San Juan River Basins with Non-Exceedence Projections

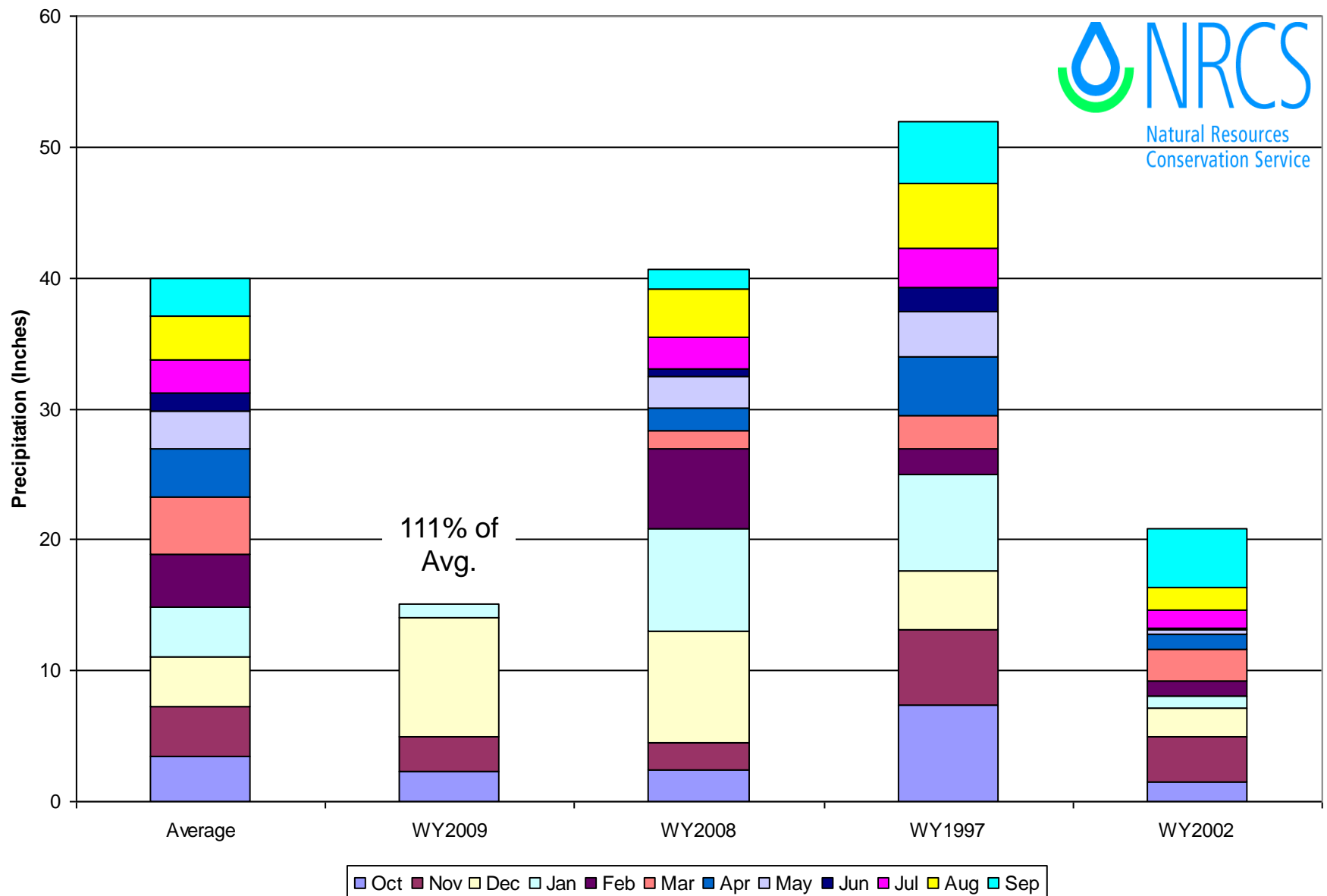
*Based on Provisional SNOTEL Data as of Jan 22, 2009*





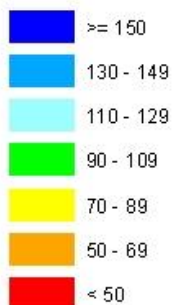
# San Miguel, Dolores, Animas and San Juan River Basins High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*

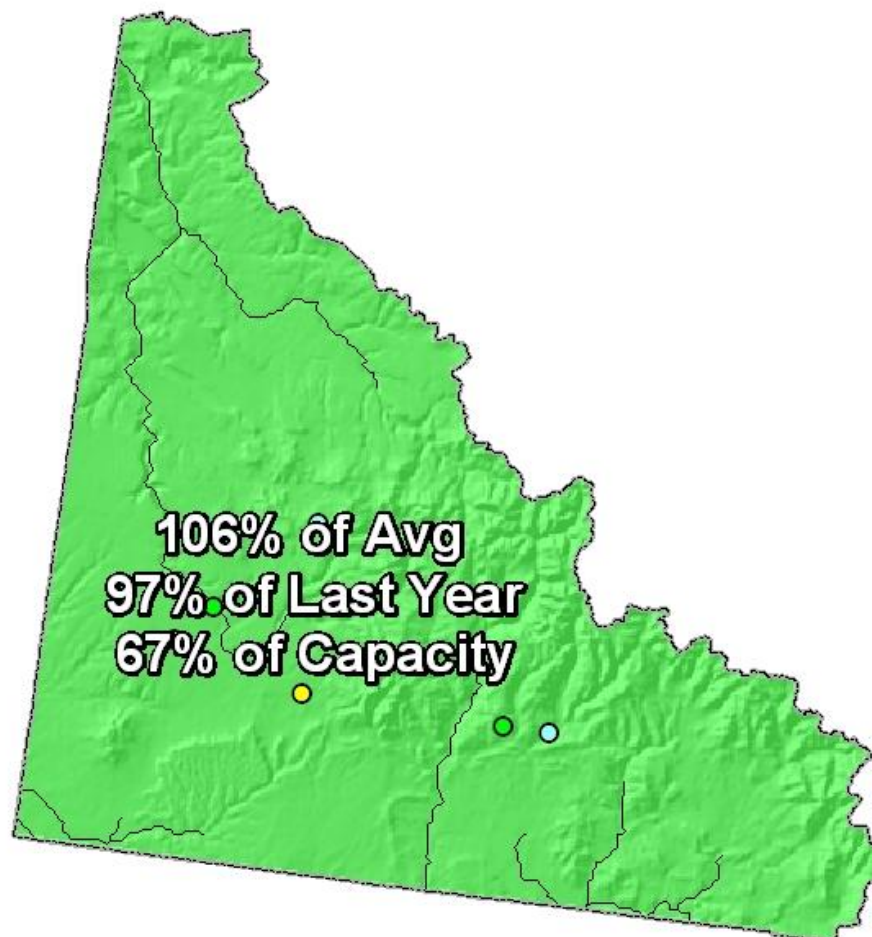


# San Miguel, Dolores, Animas and San Juan River Basins Reservoir Storage Map

Percent of Average



*Provisional Data  
Subject to Revision*



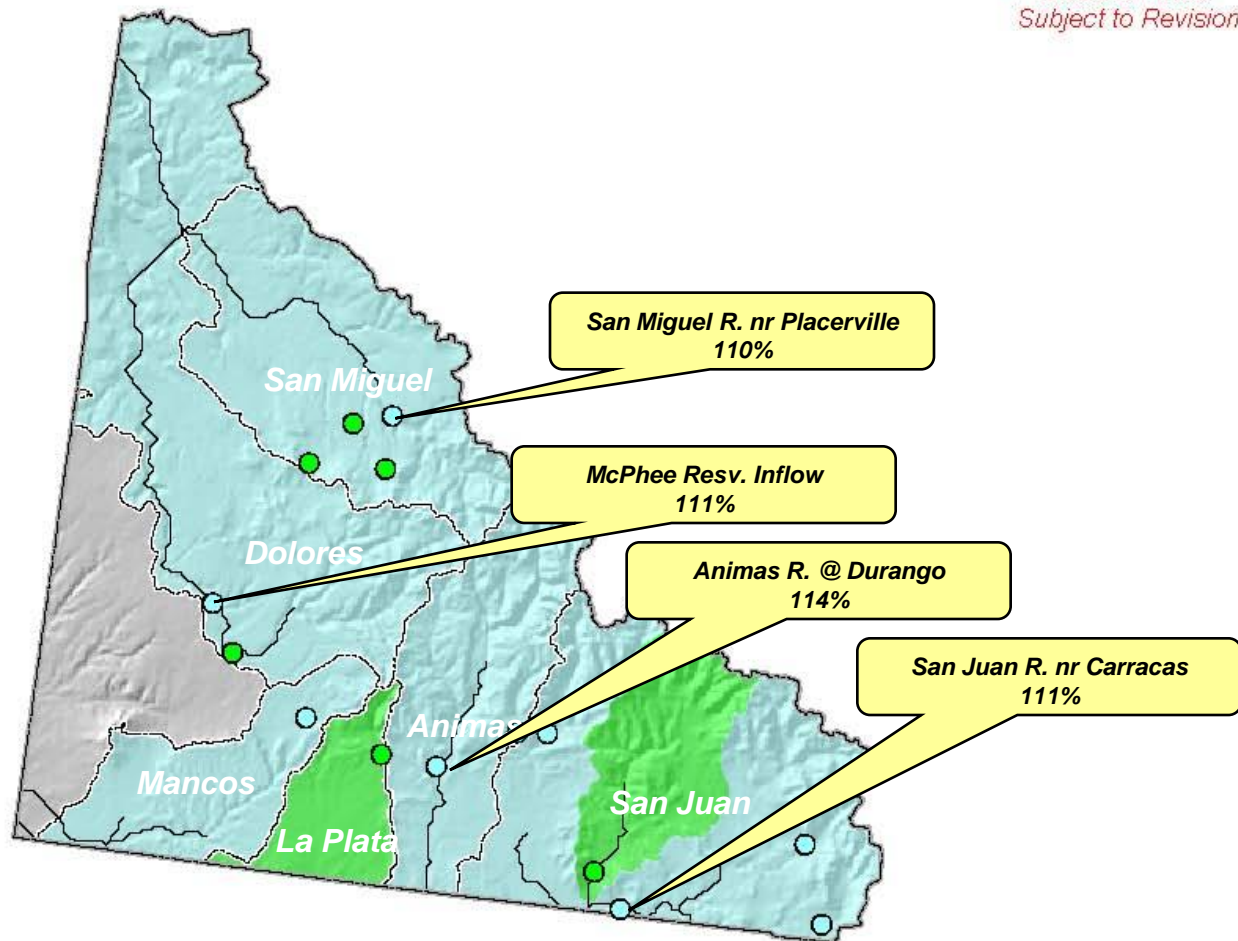
End of December 2008

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

Percent of Average

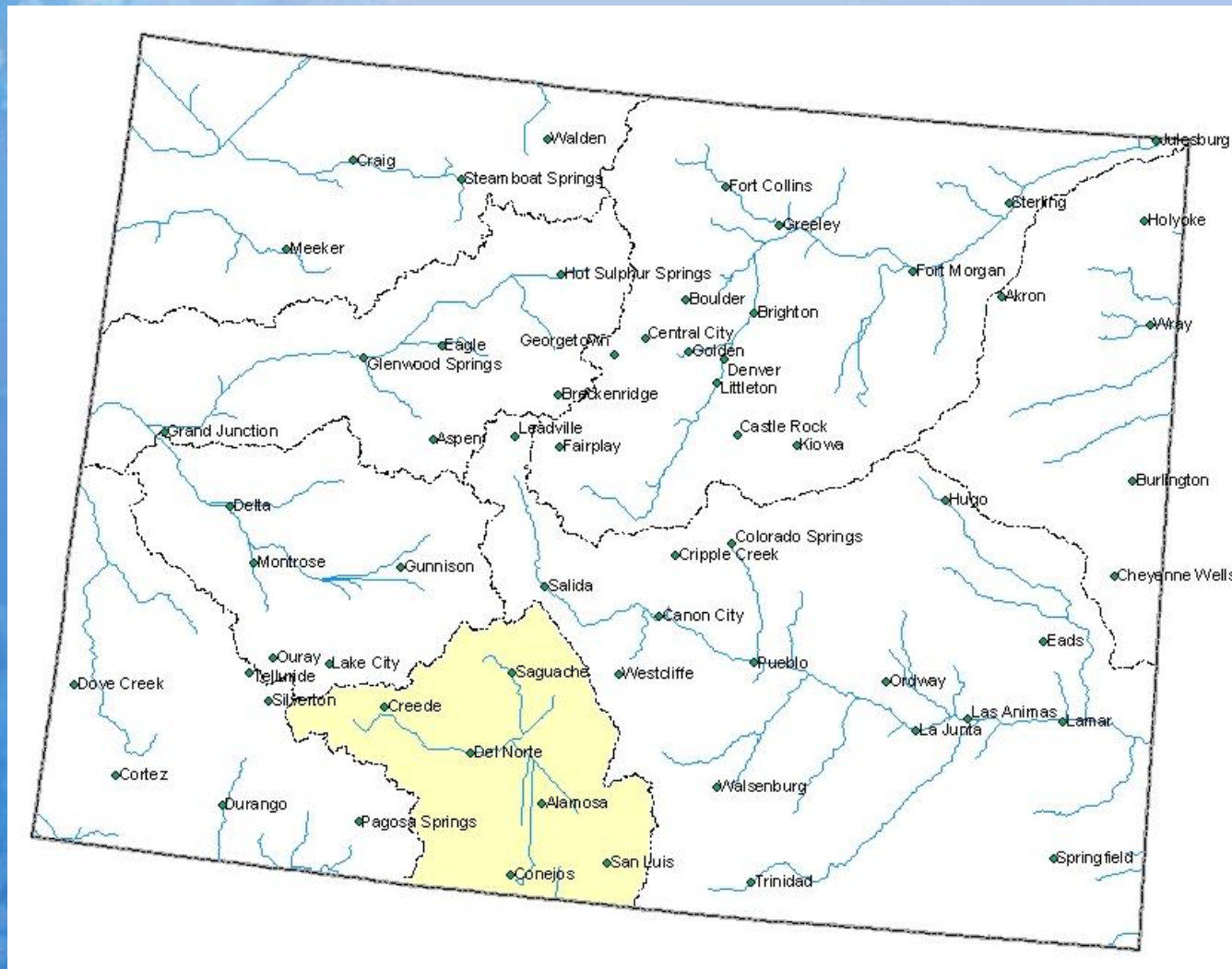


*Provisional Data  
Subject to Revision*



Current as of January 1, 2009

# Upper Rio Grande Basin Summary



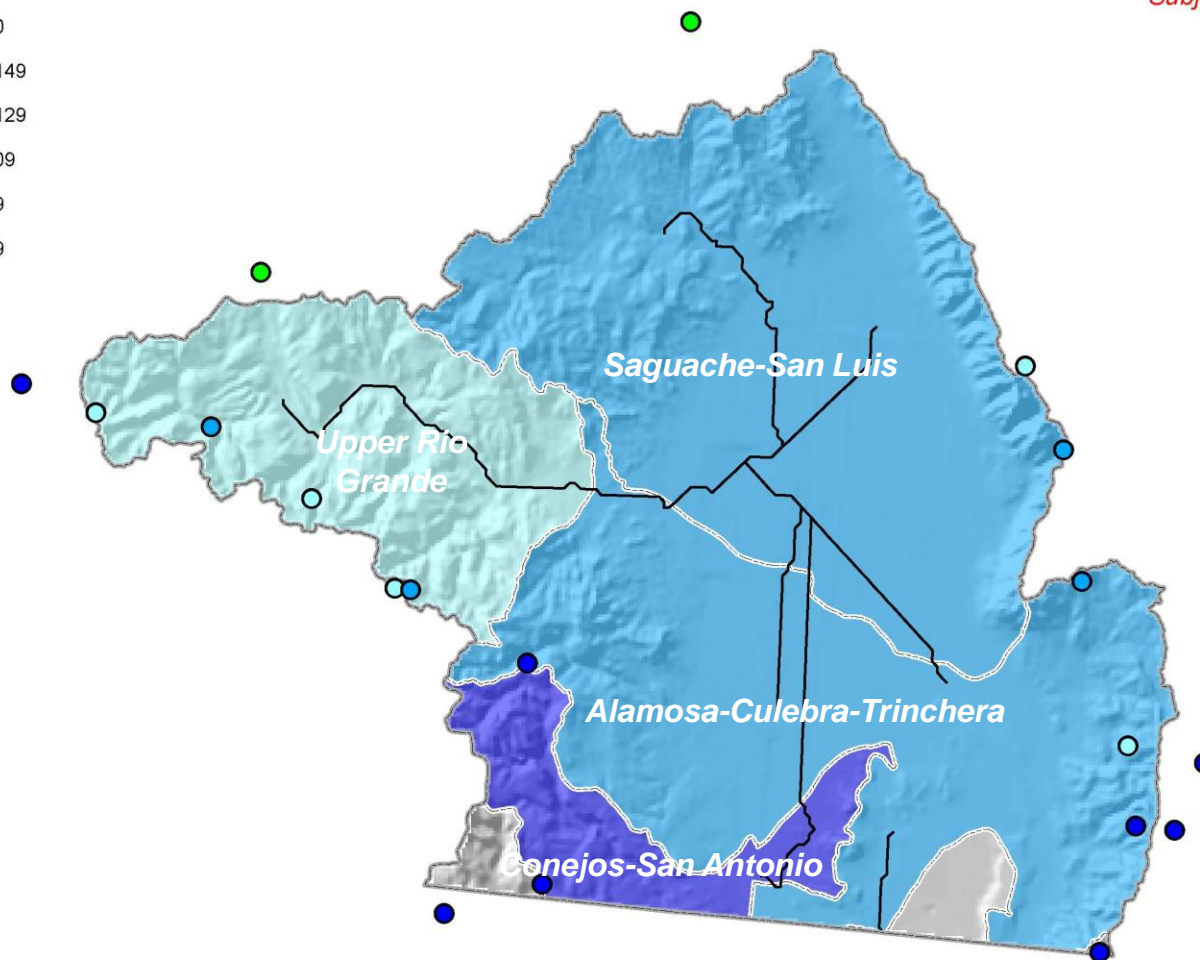


# Upper Rio Grande Basin Snowpack Map

## Percent of Average

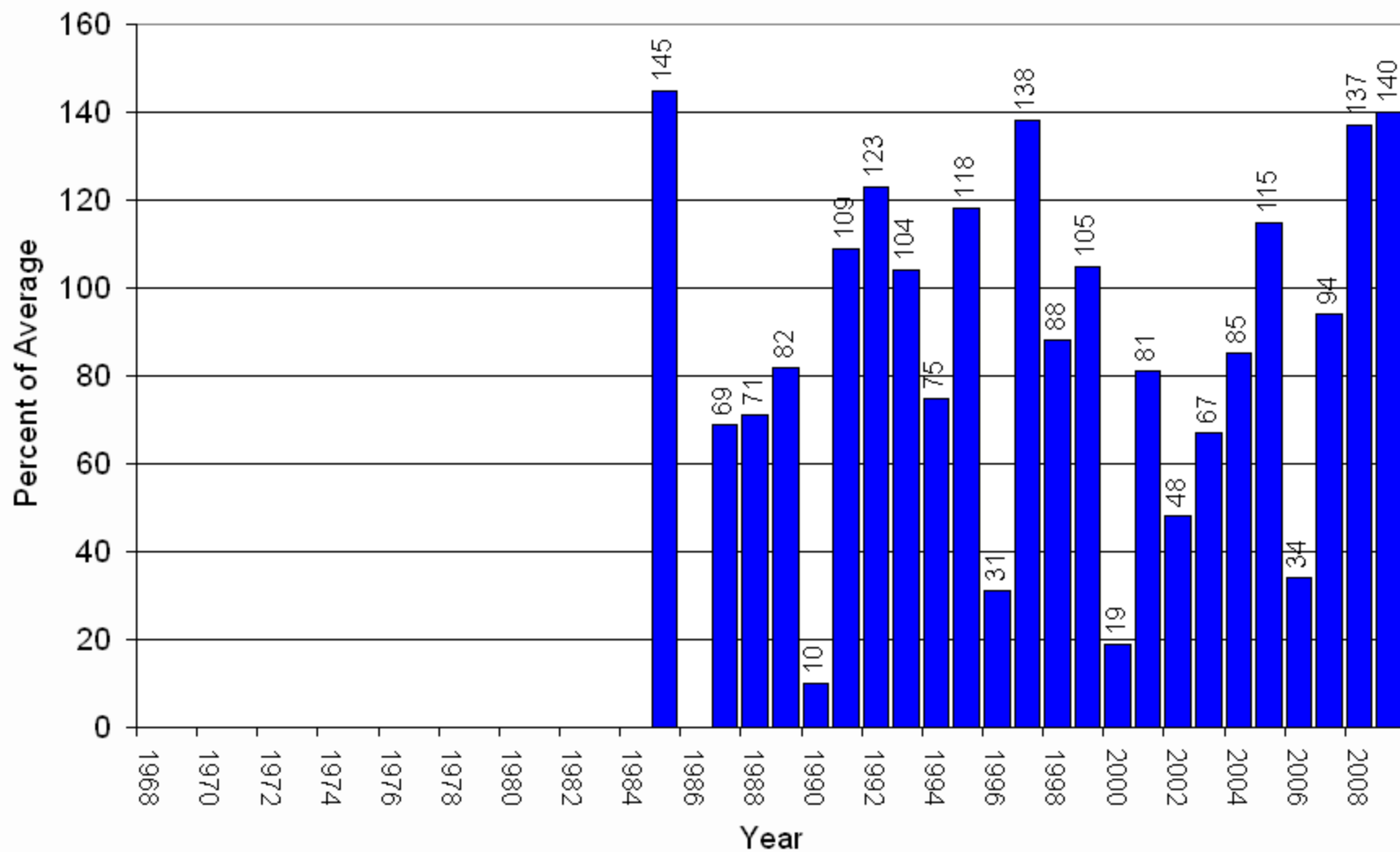


*Provisional Data  
Subject to Revision*



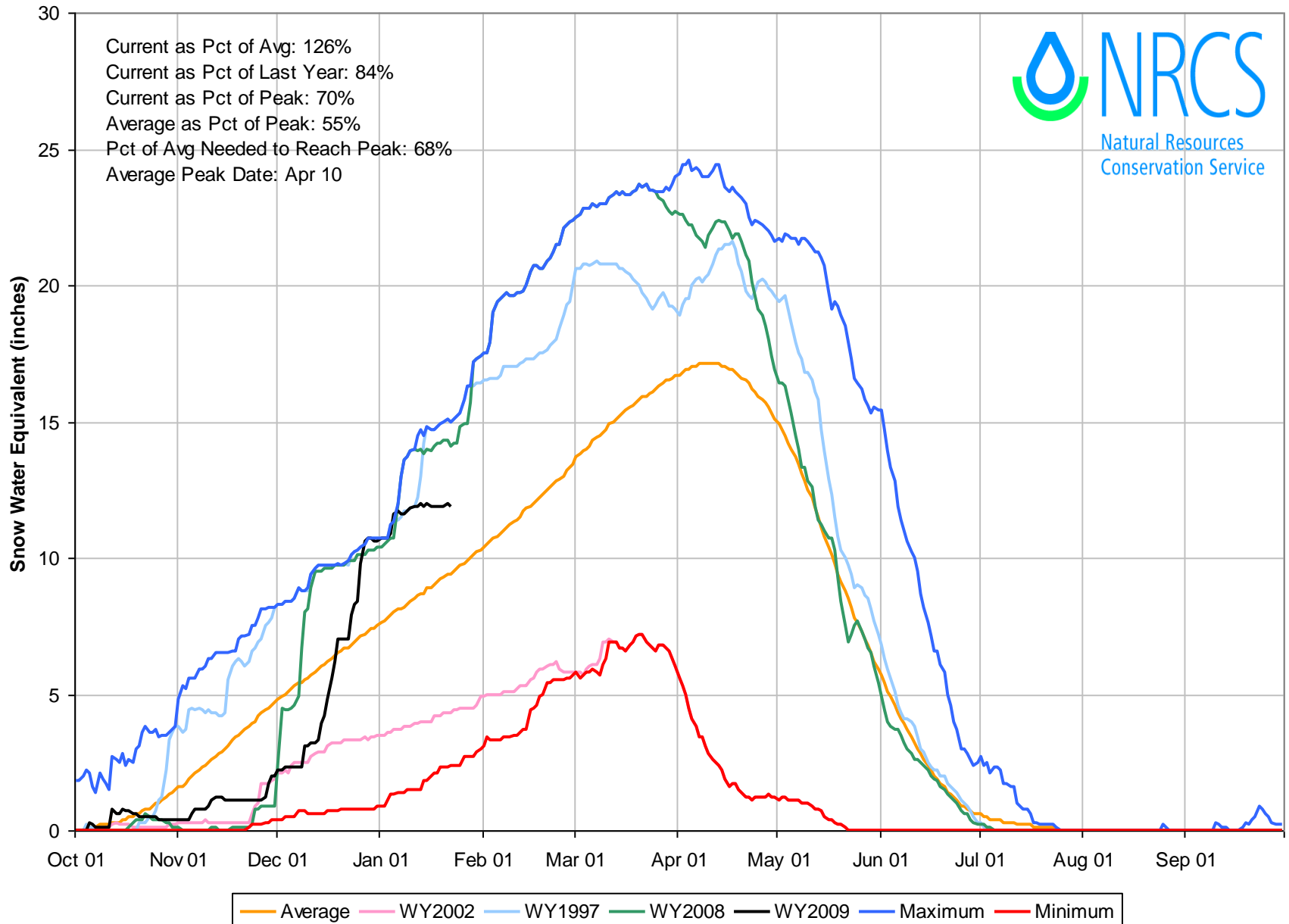
Current as of January 1, 2009

January 1 Total Upper Rio Grande Basin Snowpack



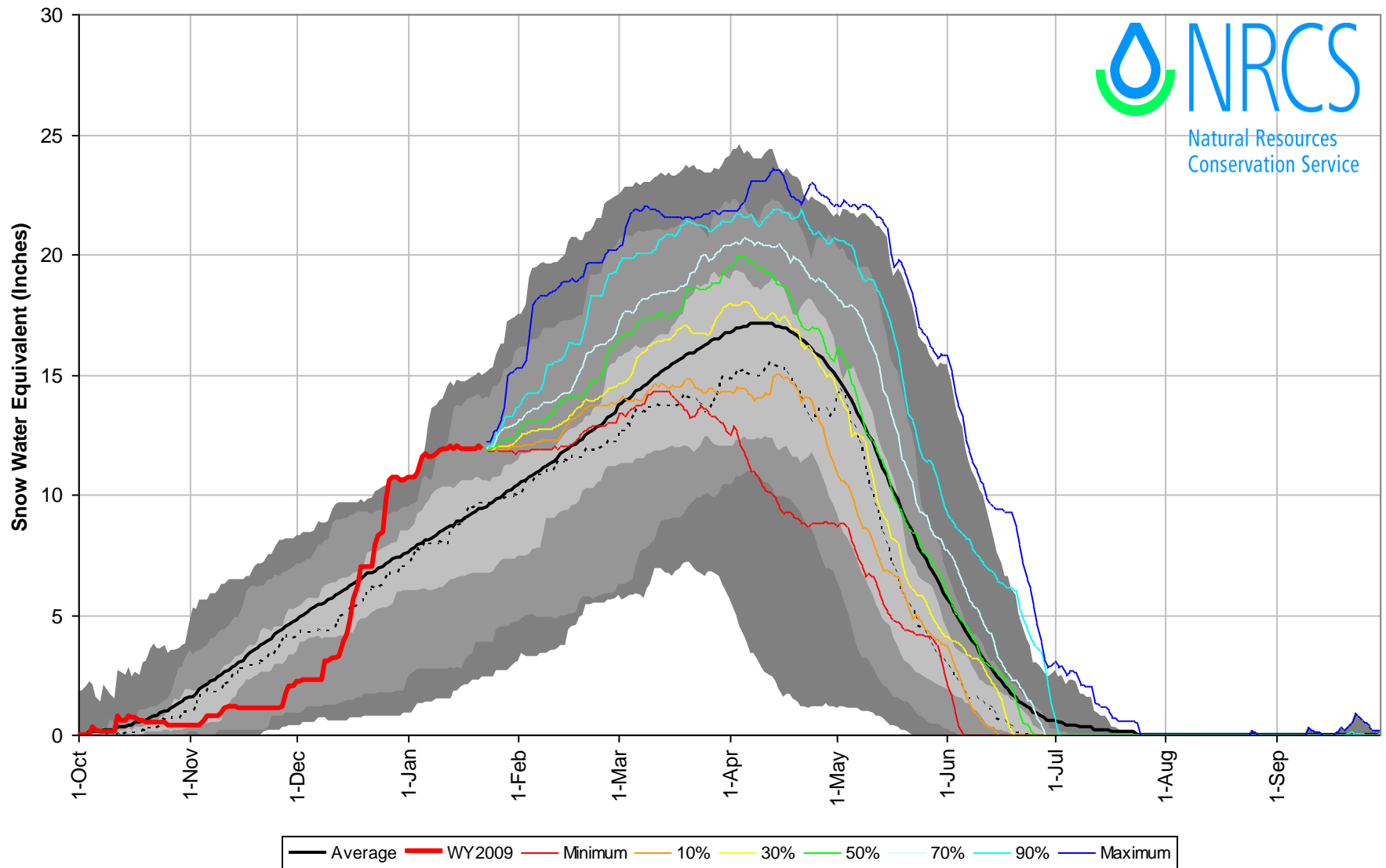
## Upper Rio Grande Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*



## Upper Rio Grande Basin with Non-Exceedence Projections

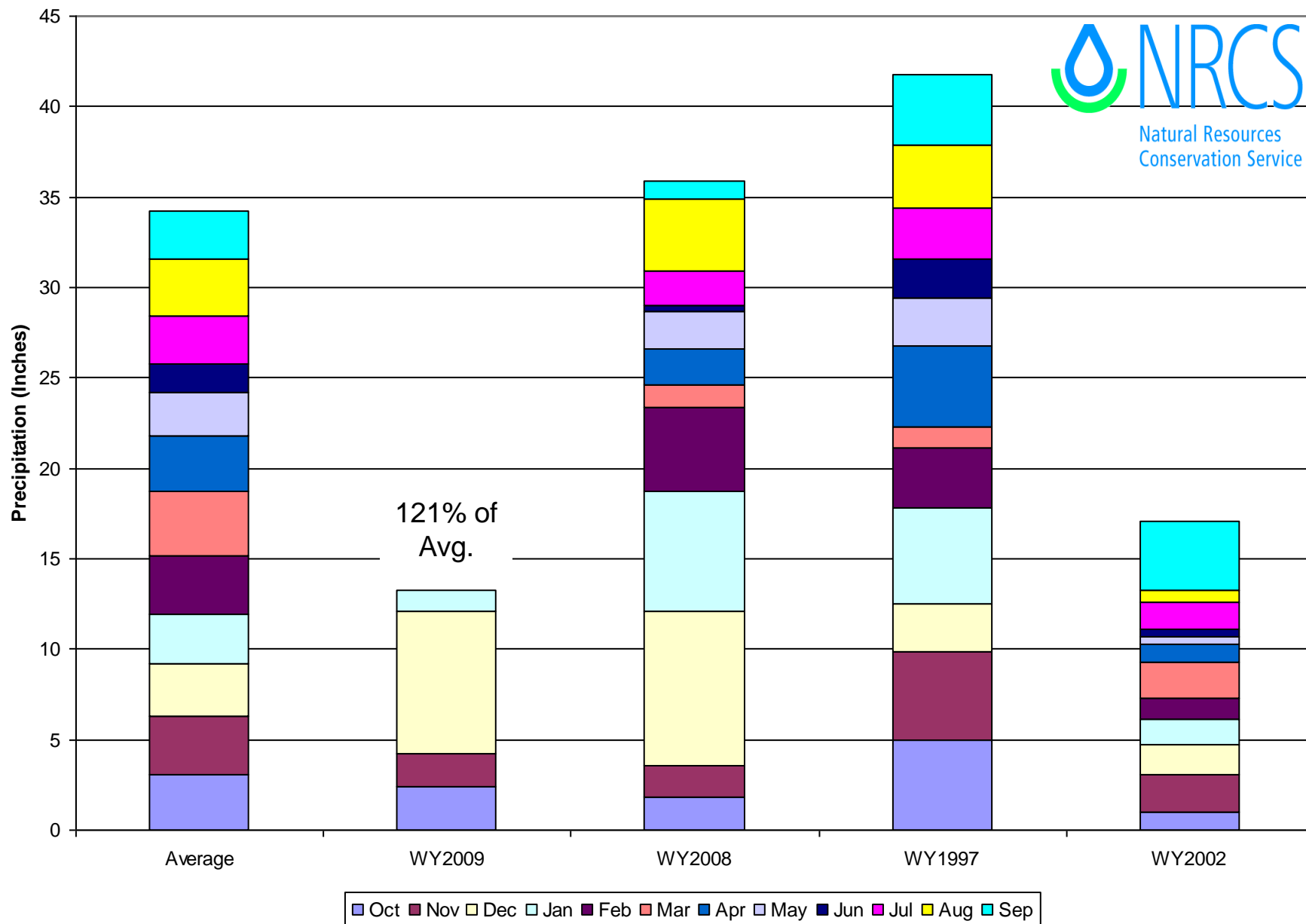
*Based on Provisional SNOTEL Data as of Jan 22, 2009*





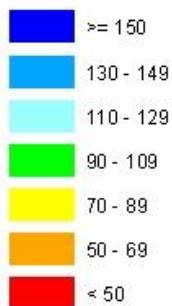
# Upper Rio Grande Basin High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*

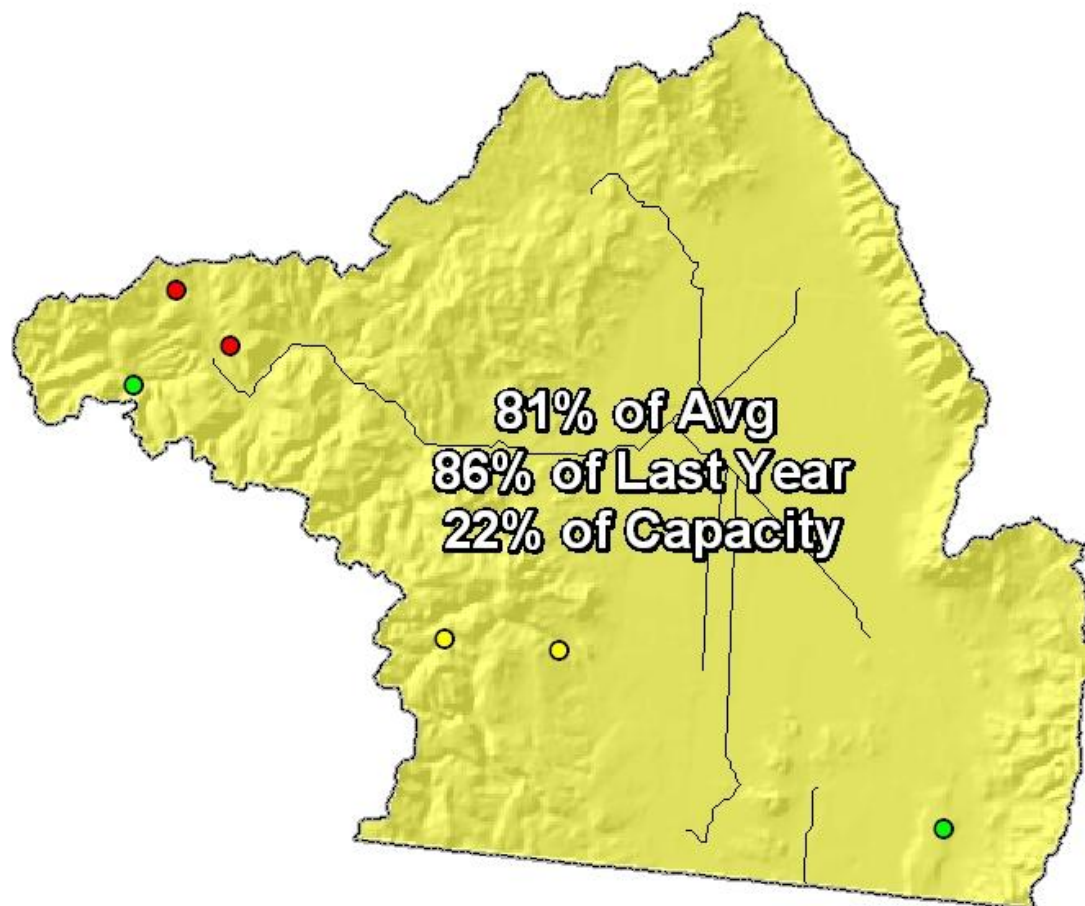


# Upper Rio Grande Basin Reservoir Storage Map

## Percent of Average



*Provisional Data  
Subject to Revision*



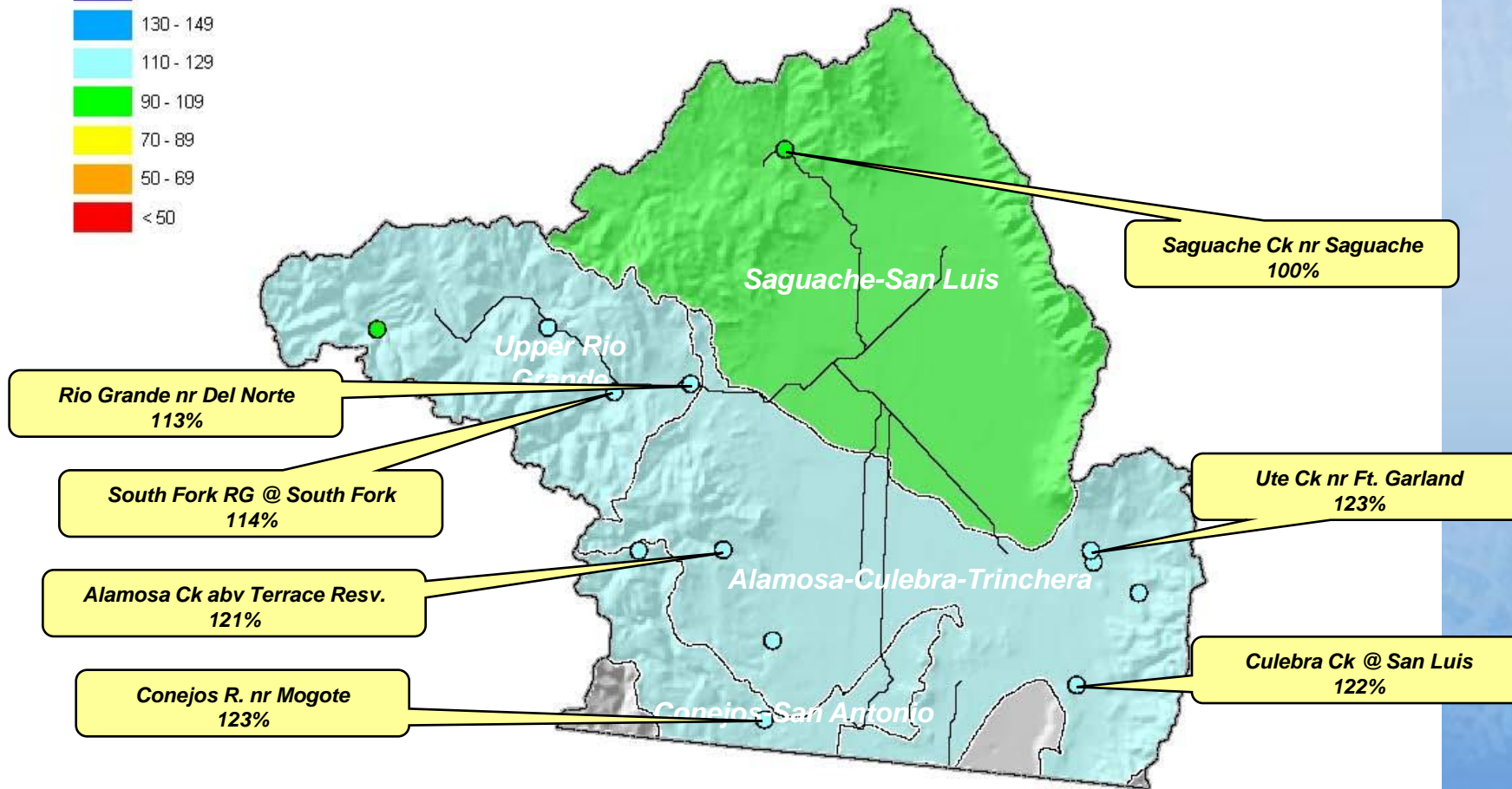
End of December 2008

# Upper Rio Grande Basin Streamflow Forecast Map

## Percent of Average

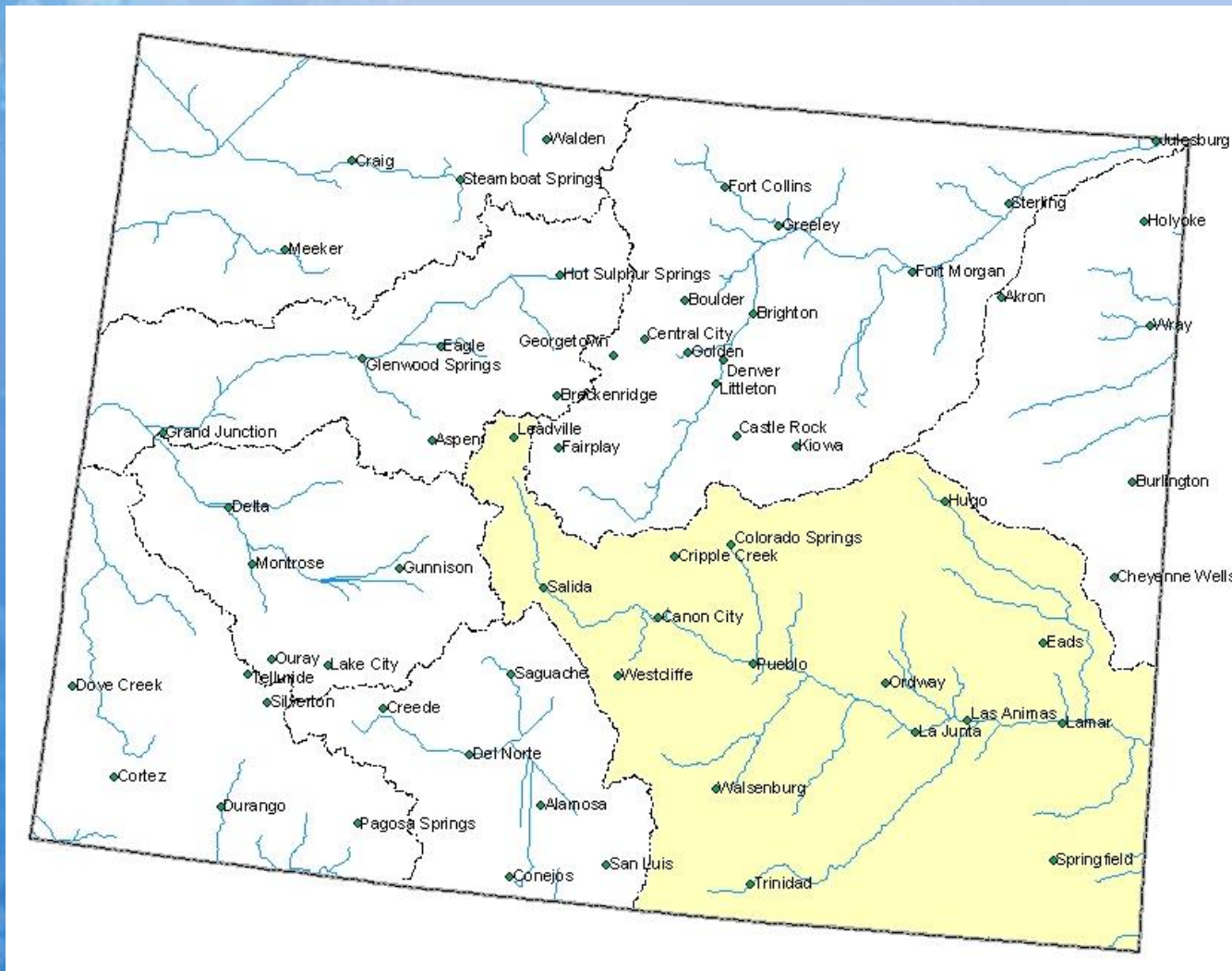


*Provisional Data  
Subject to Revision*



Current as of January 1, 2009

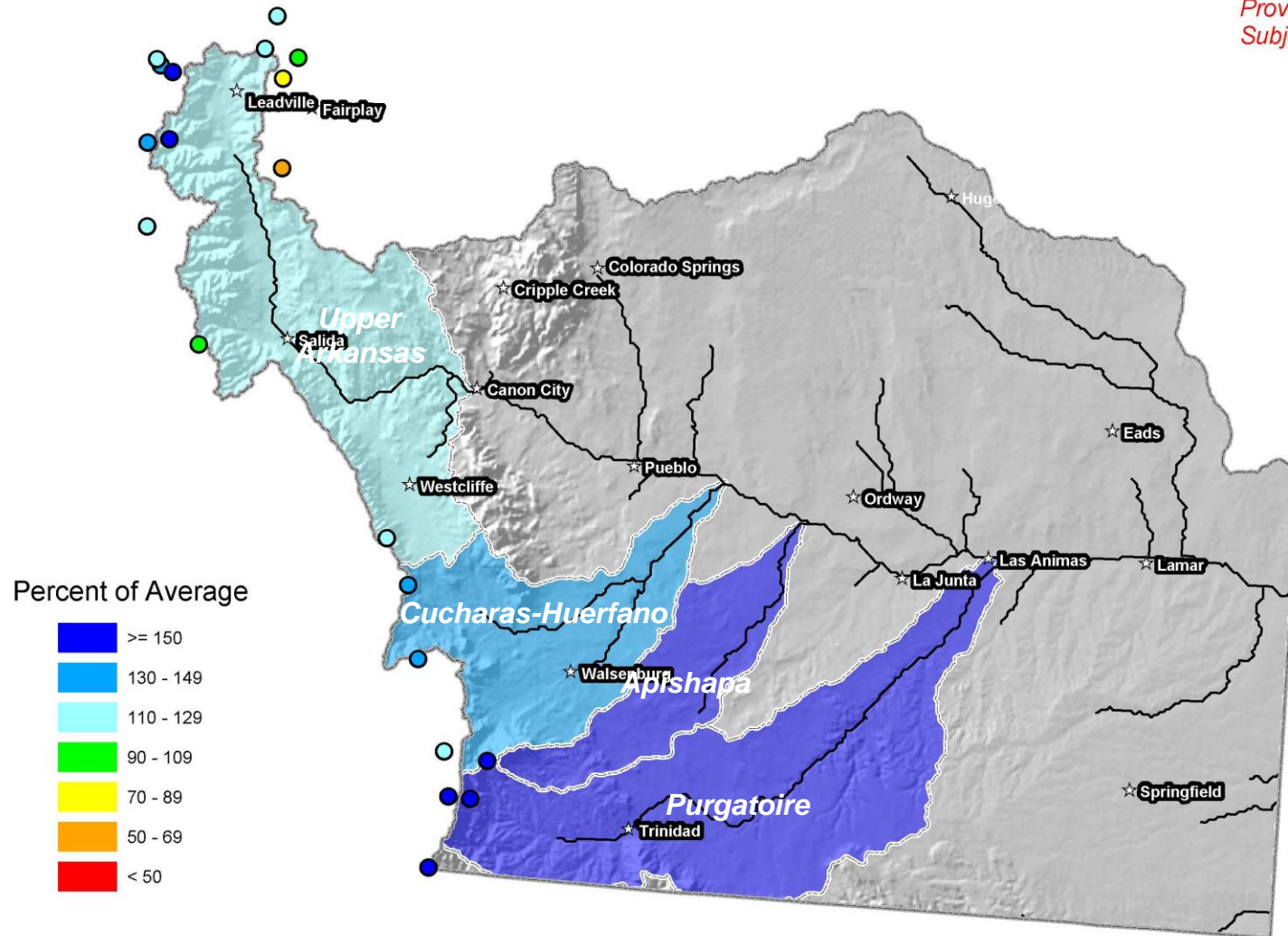
# Arkansas River Basin Summary





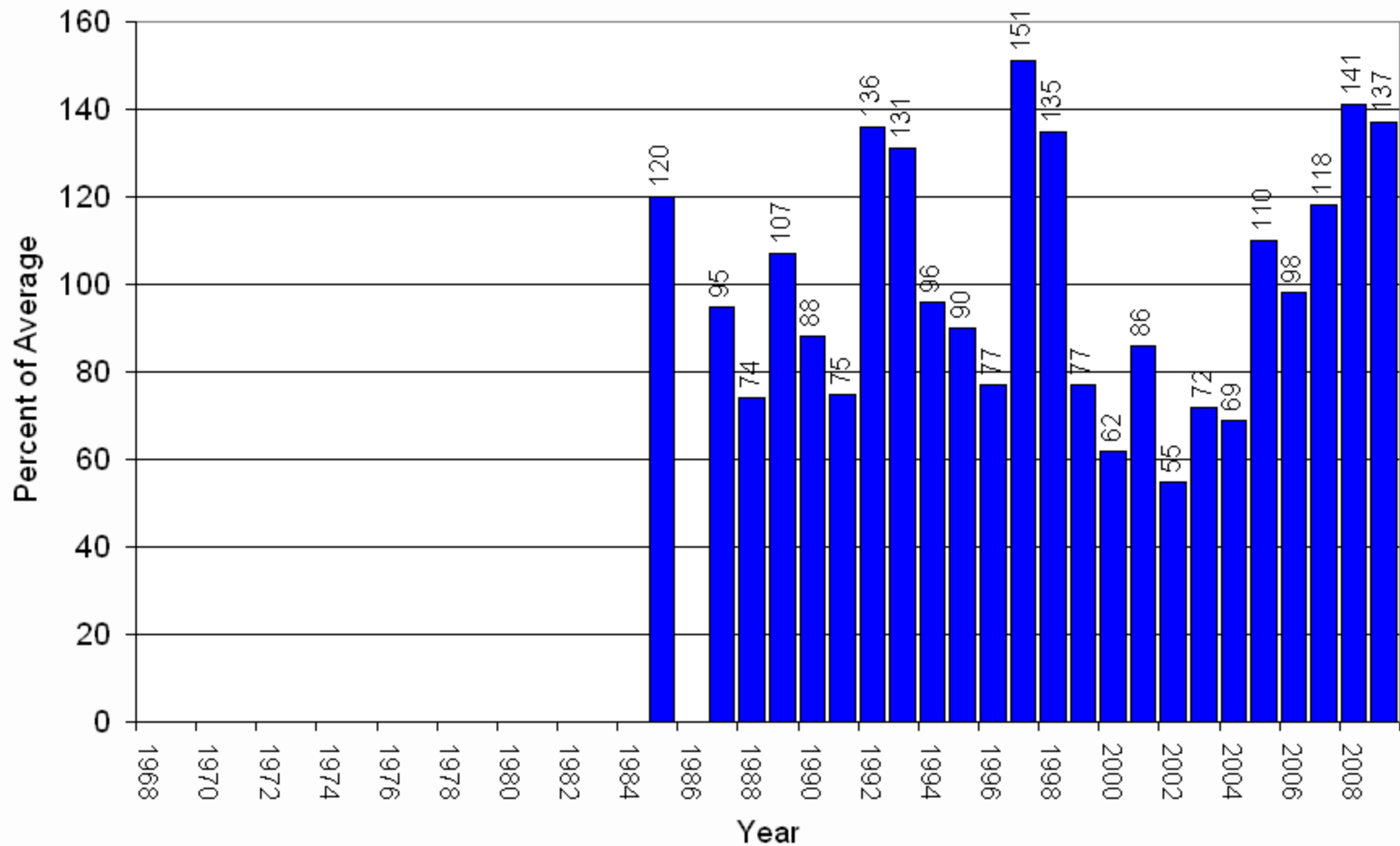
# Arkansas River Basin Snowpack Map

*Provisional Data  
Subject to Revision*



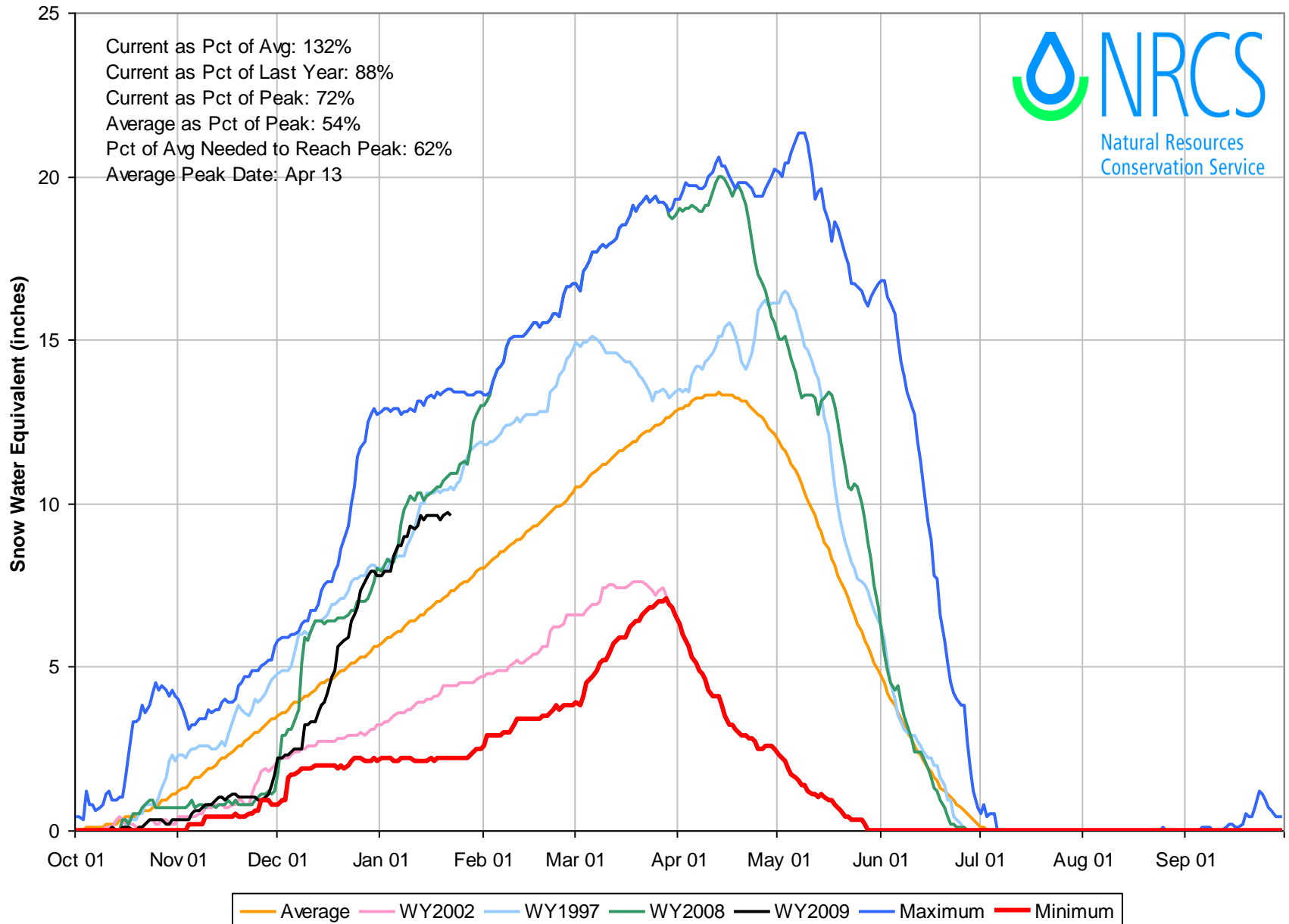
Current as of January 1, 2009

January 1 Total Arkansas River Basin Snowpack



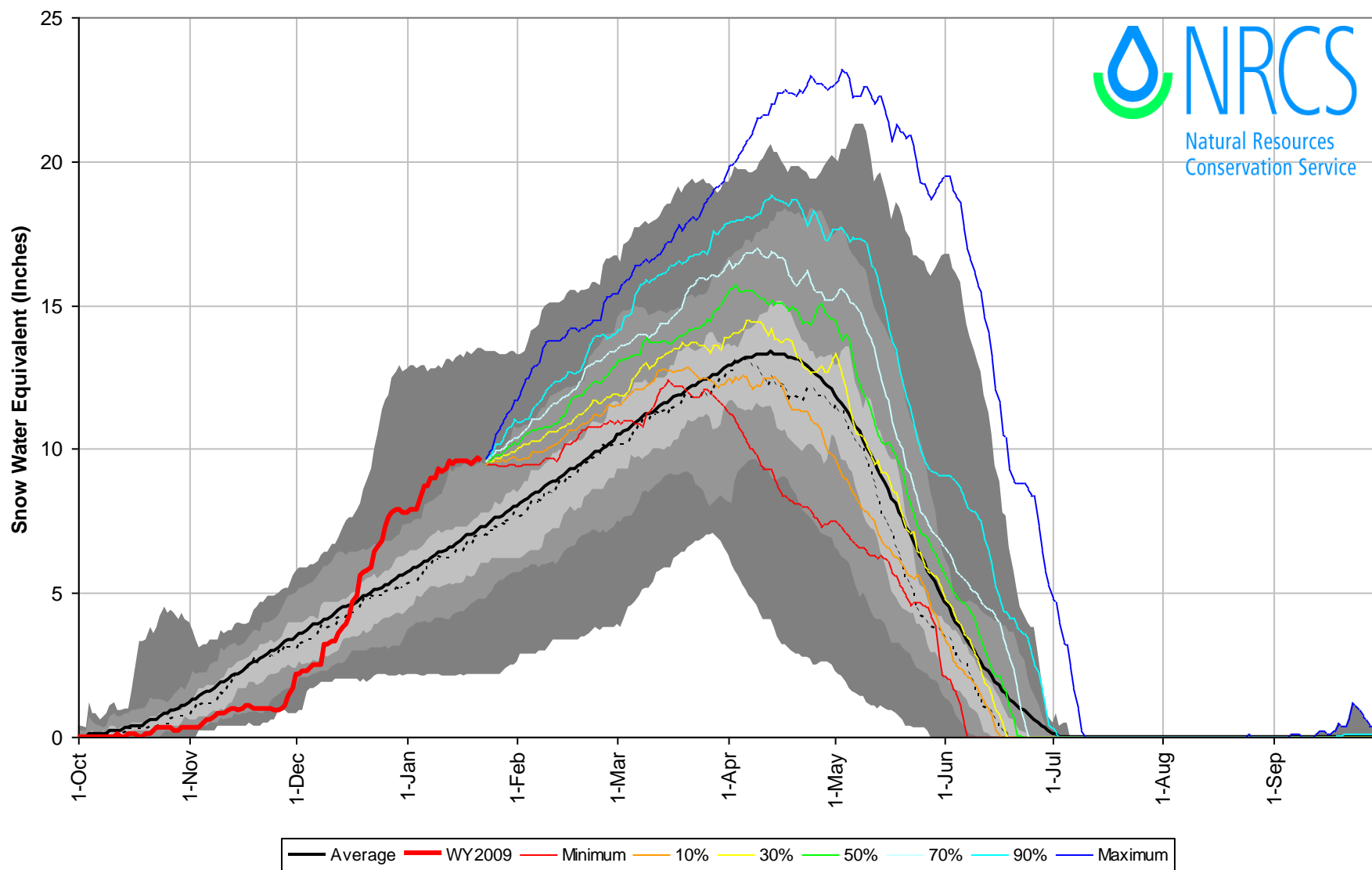
## Arkansas River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*



## Arkansas River Basin with Non-Exceedence Projections

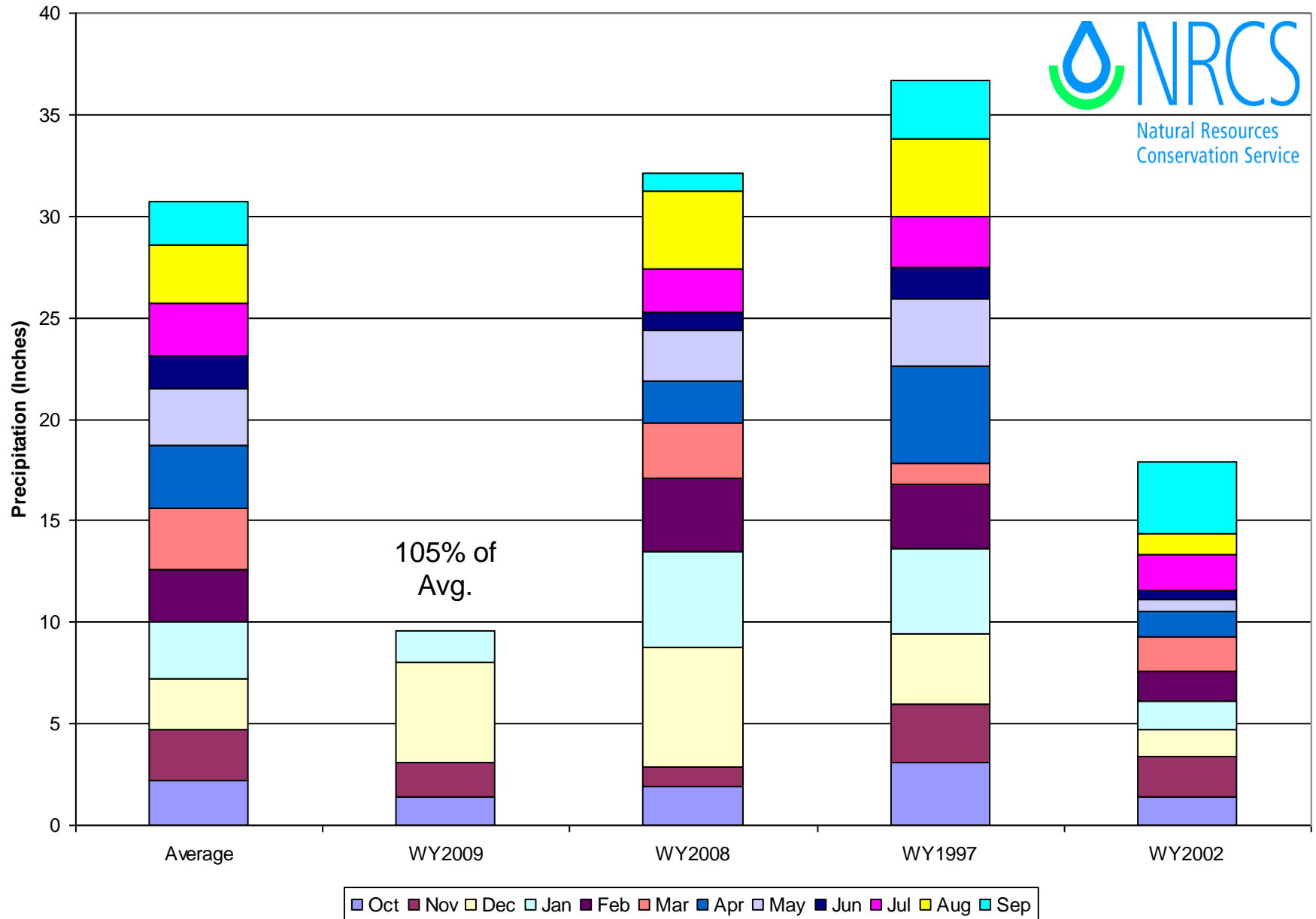
*Based on Provisional SNOTEL Data as of Jan 22, 2009*





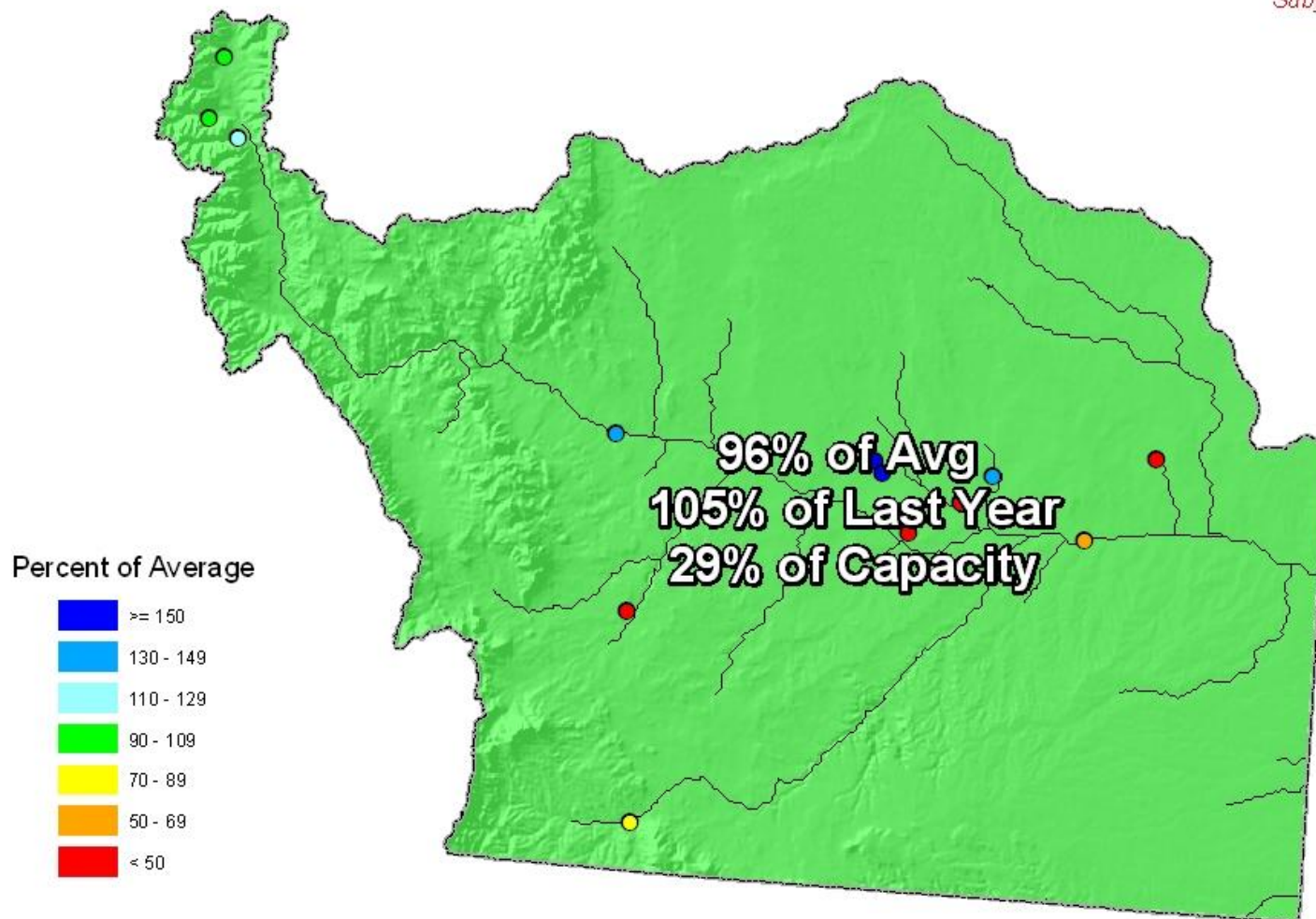
# Arkansas River Basin High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jan 22, 2009*



# Arkansas River Basin Reservoir Storage Map

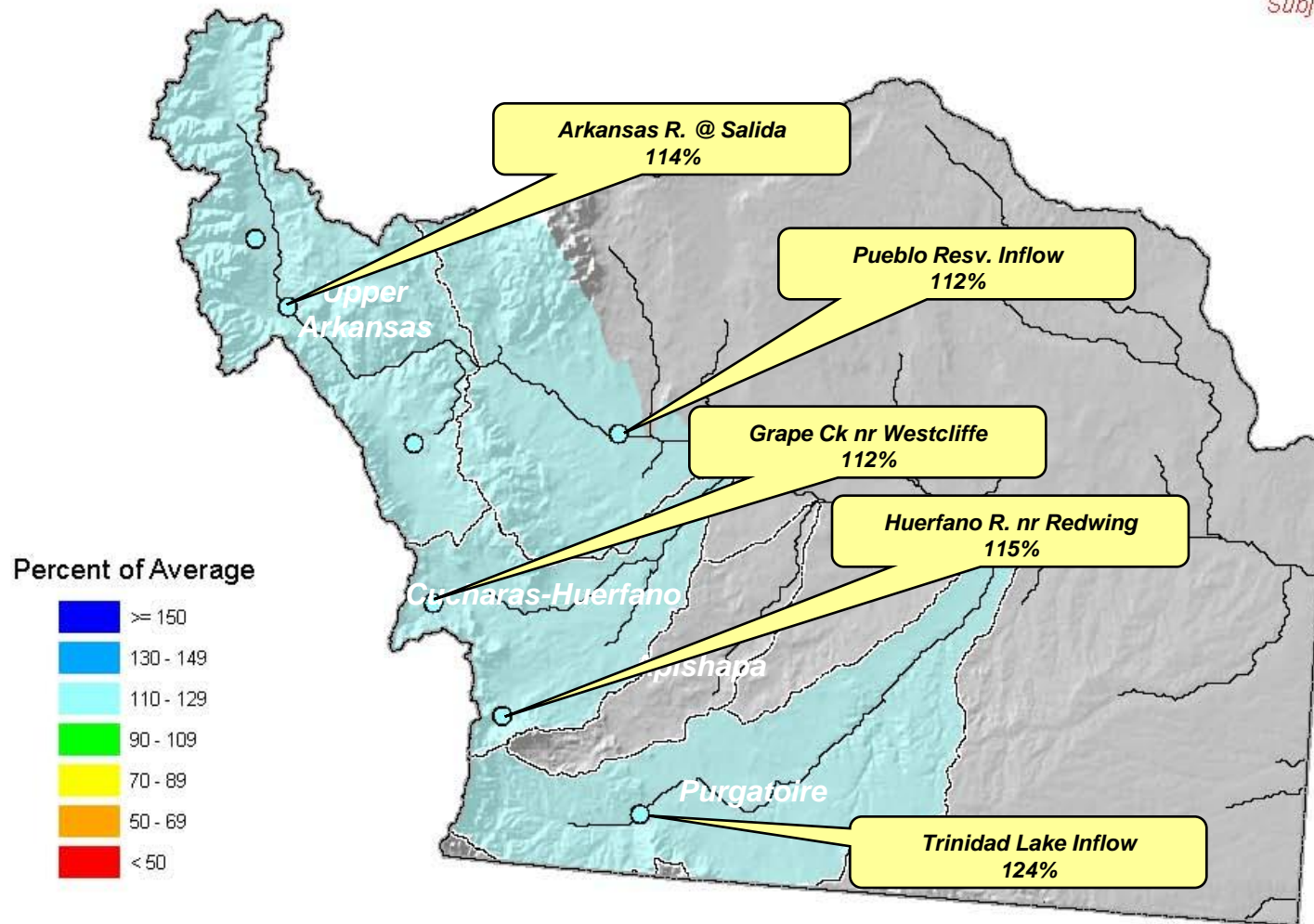
*Provisional Data  
Subject to Revision*



End of December 2008

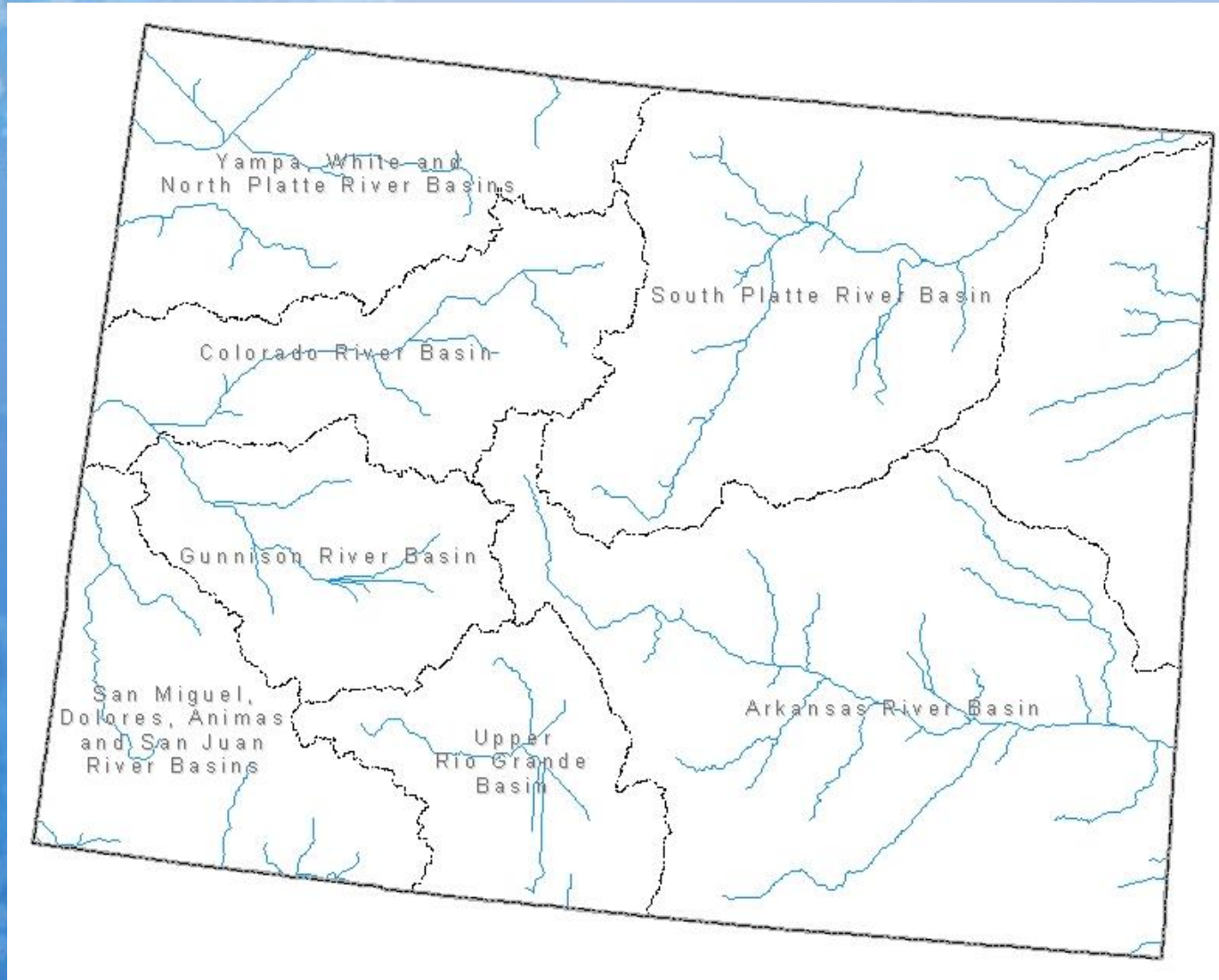
# Arkansas River Basin Streamflow Forecast Map

*Provisional Data  
Subject to Revision*



Current as of January 1, 2009

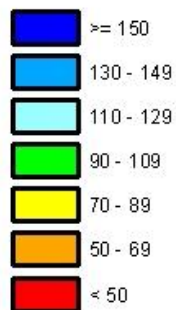
# Colorado Statewide Summary



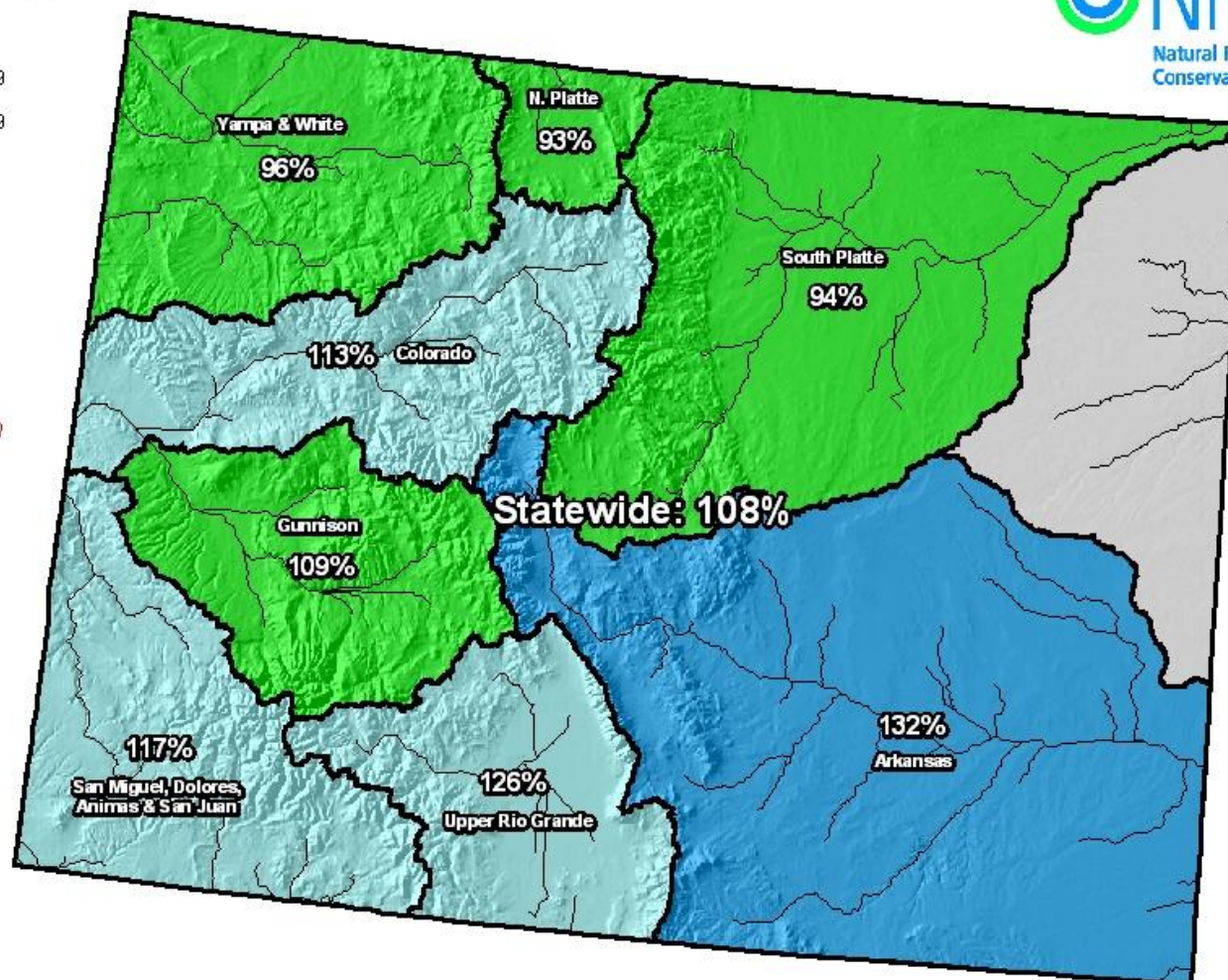


# Colorado SNOTEL Snowpack Update Map

Percent of Average



*Provisional Data  
Subject to Revision*



Current as of Jan 22, 2009

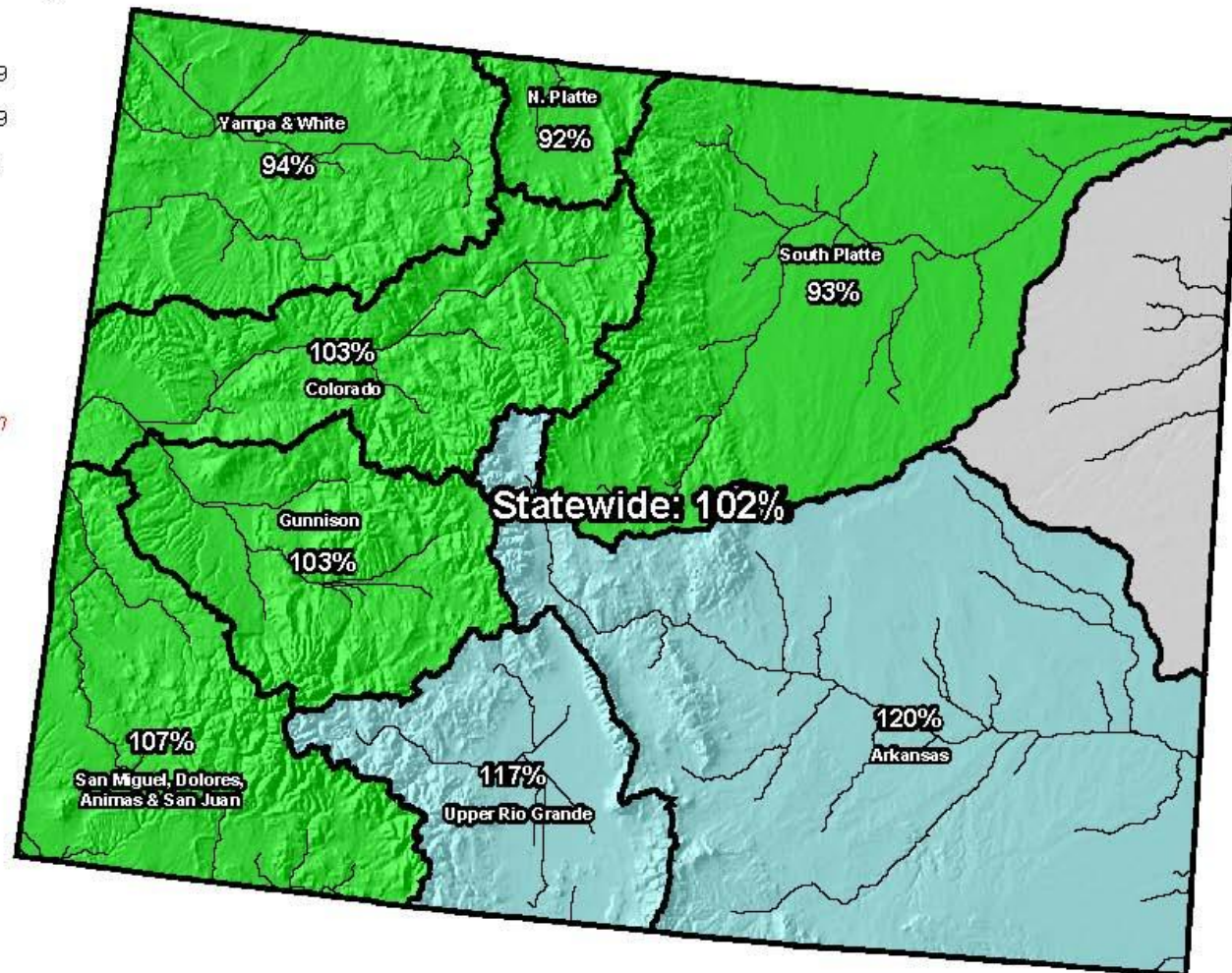
*\*Data may not provide a valid measure of conditions*

# Colorado SNOTEL April 1 Snowpack Projection Map\*

Percent of Average



*Provisional Data  
Subject to Revision*



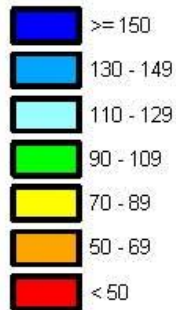
Current as of Jan 22, 2009

\*Based on 50% Non-Exceedence Projections

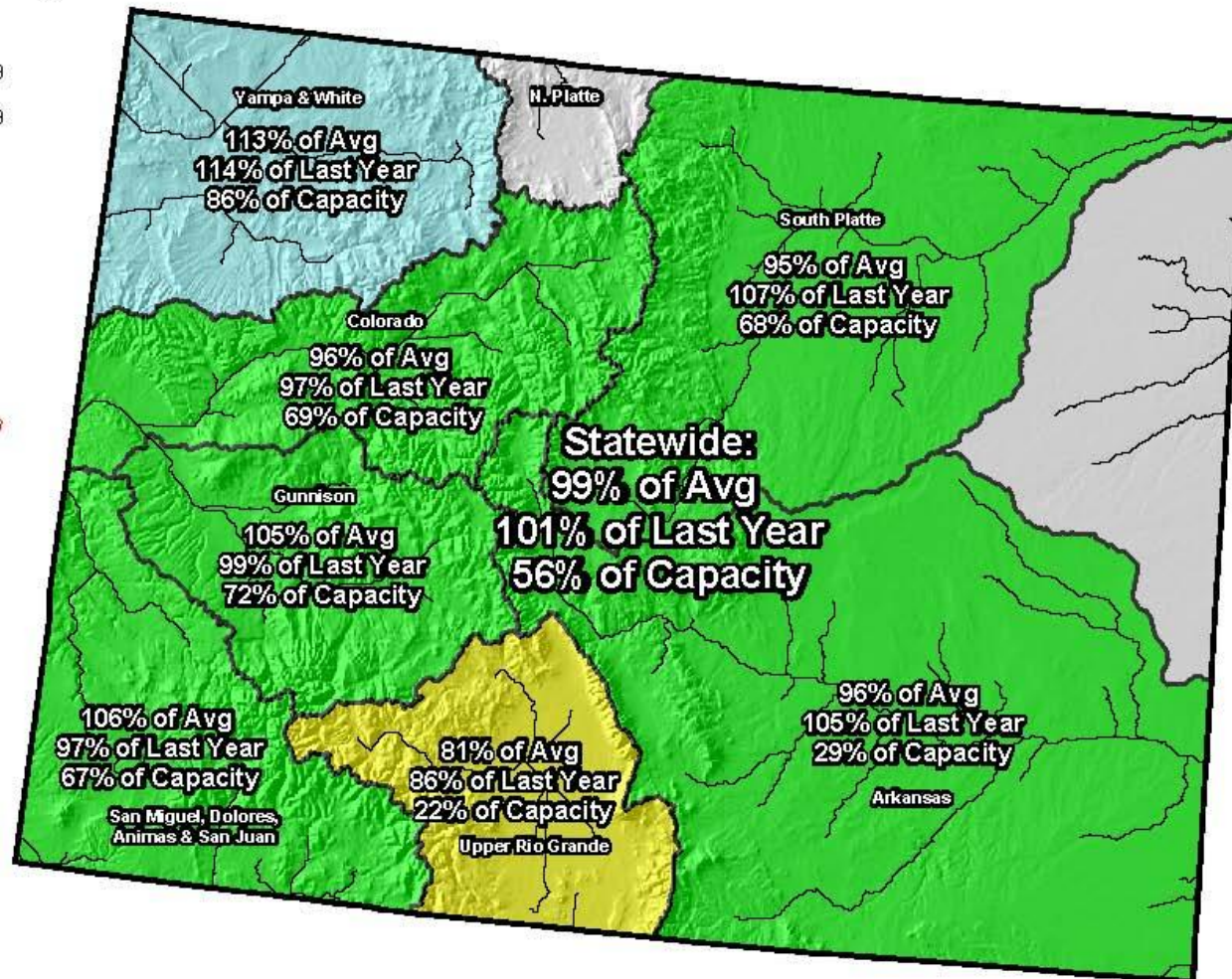


# Colorado Reservoir Storage Map

Percent of Average



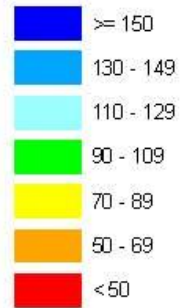
*Provisional Data  
Subject to Revision*



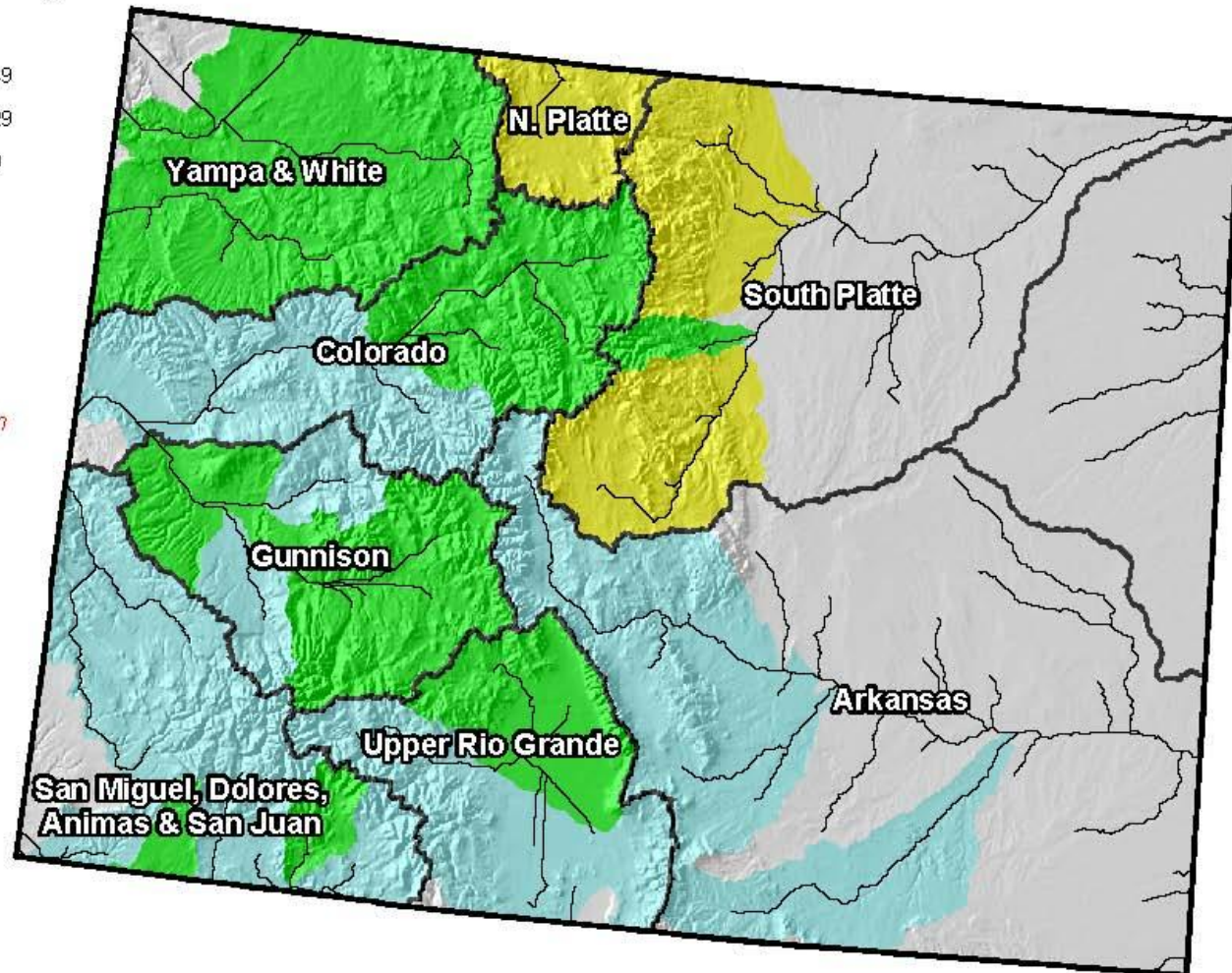
End of December 2008

# Colorado Streamflow Forecast Map

Percent of Average



*Provisional Data  
Subject to Revision*

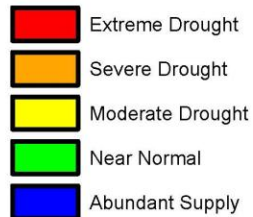


Current as of January 1, 2009

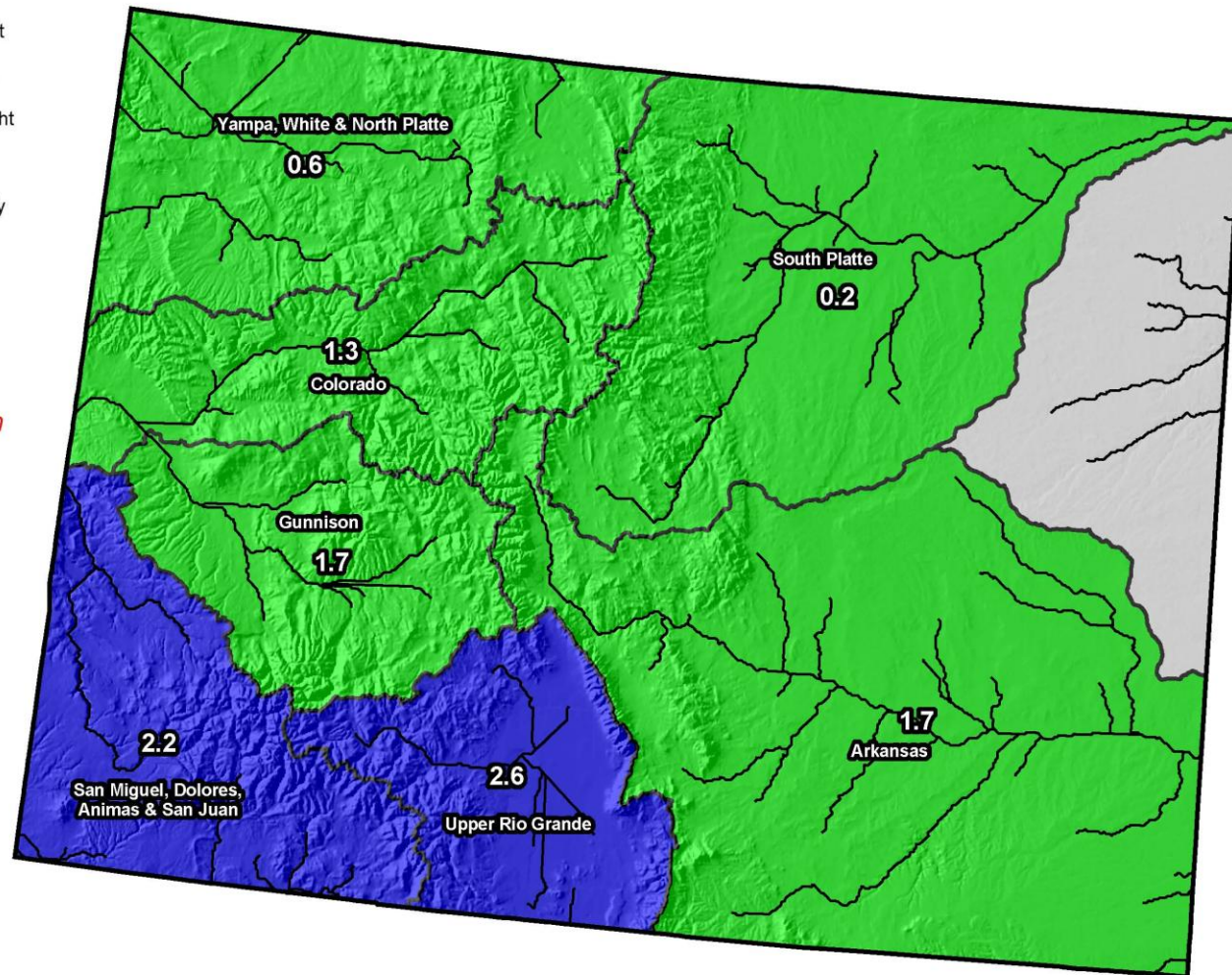


# Colorado Surface Water Supply Index (SWSI) Map

## Legend



*Provisional Data  
Subject to Revision*



Current as of January 1, 2009