

# NRCS – Snow Survey & Water Supply Forecasting

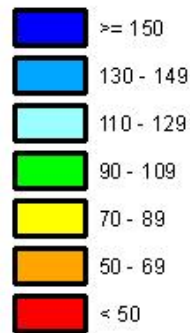
Mike Gillespie

Water Availability Task Force Meeting

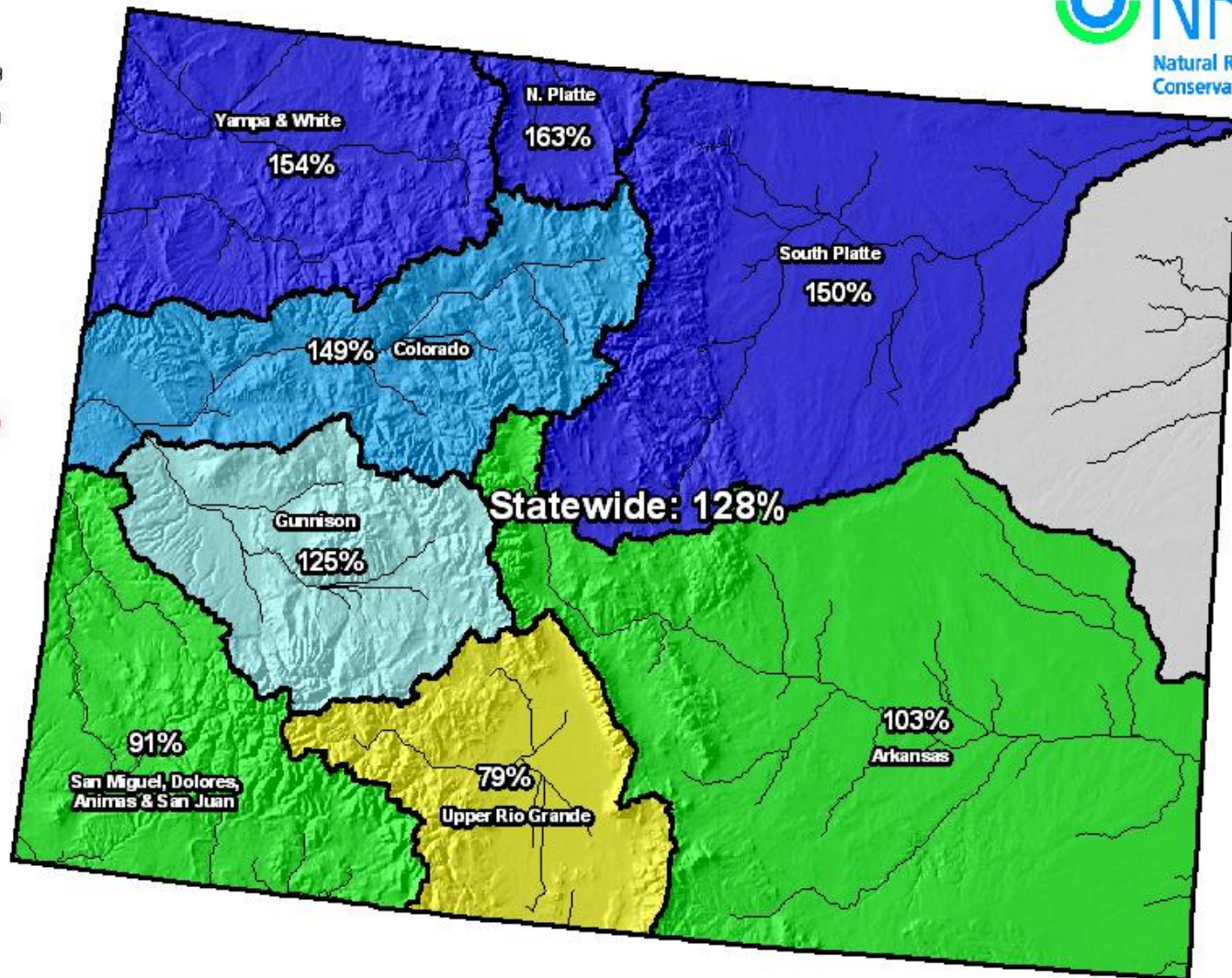
June 17, 2011

# Colorado SNOTEL Snowpack Current Peak as Pct of Average Peak

Percent of Average



*Provisional Data  
Subject to Revision*

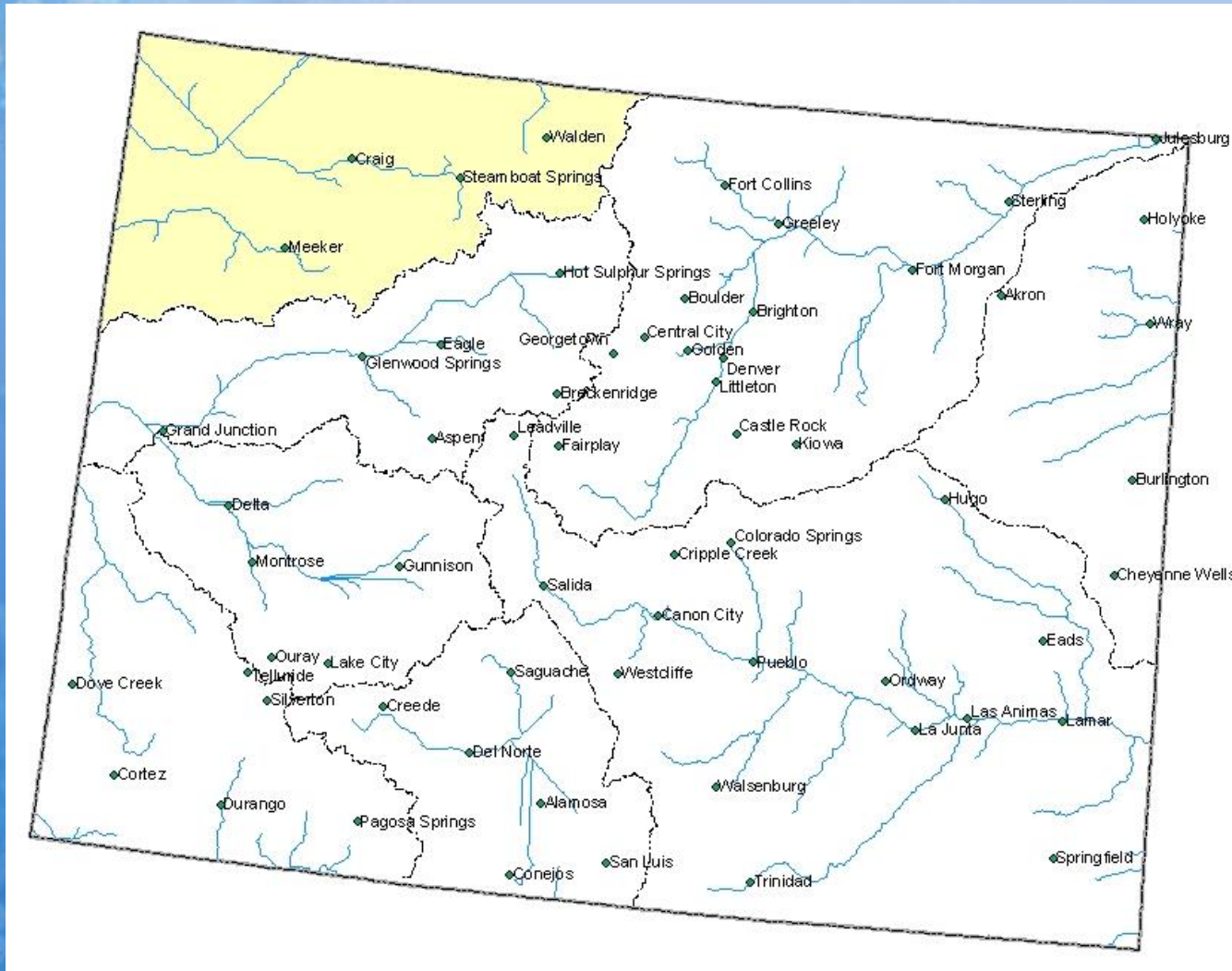


Current as of Jun 01, 2011

\*Data may not provide a valid measure of conditions

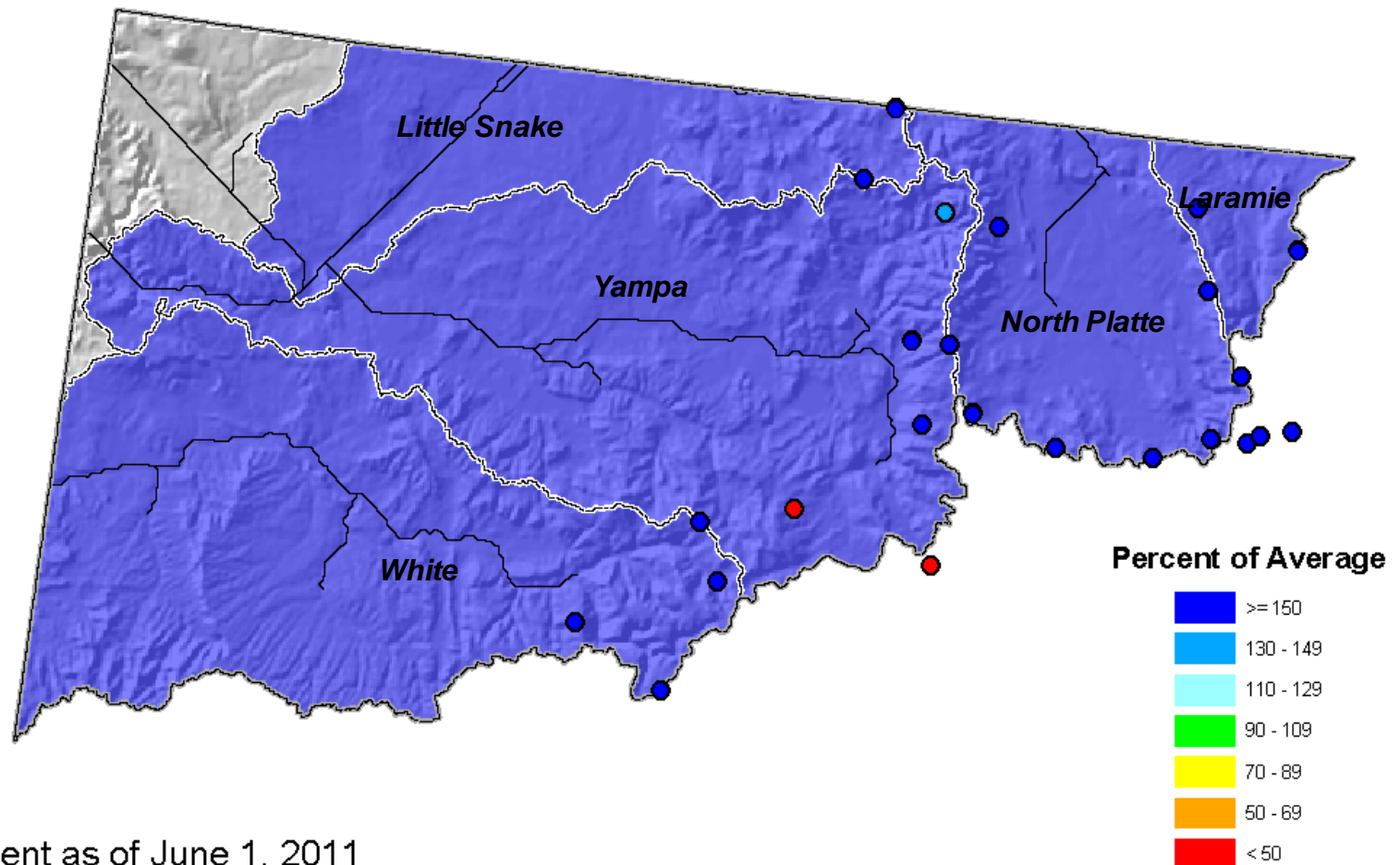


# Yampa, White & North Platte River Basins Summary

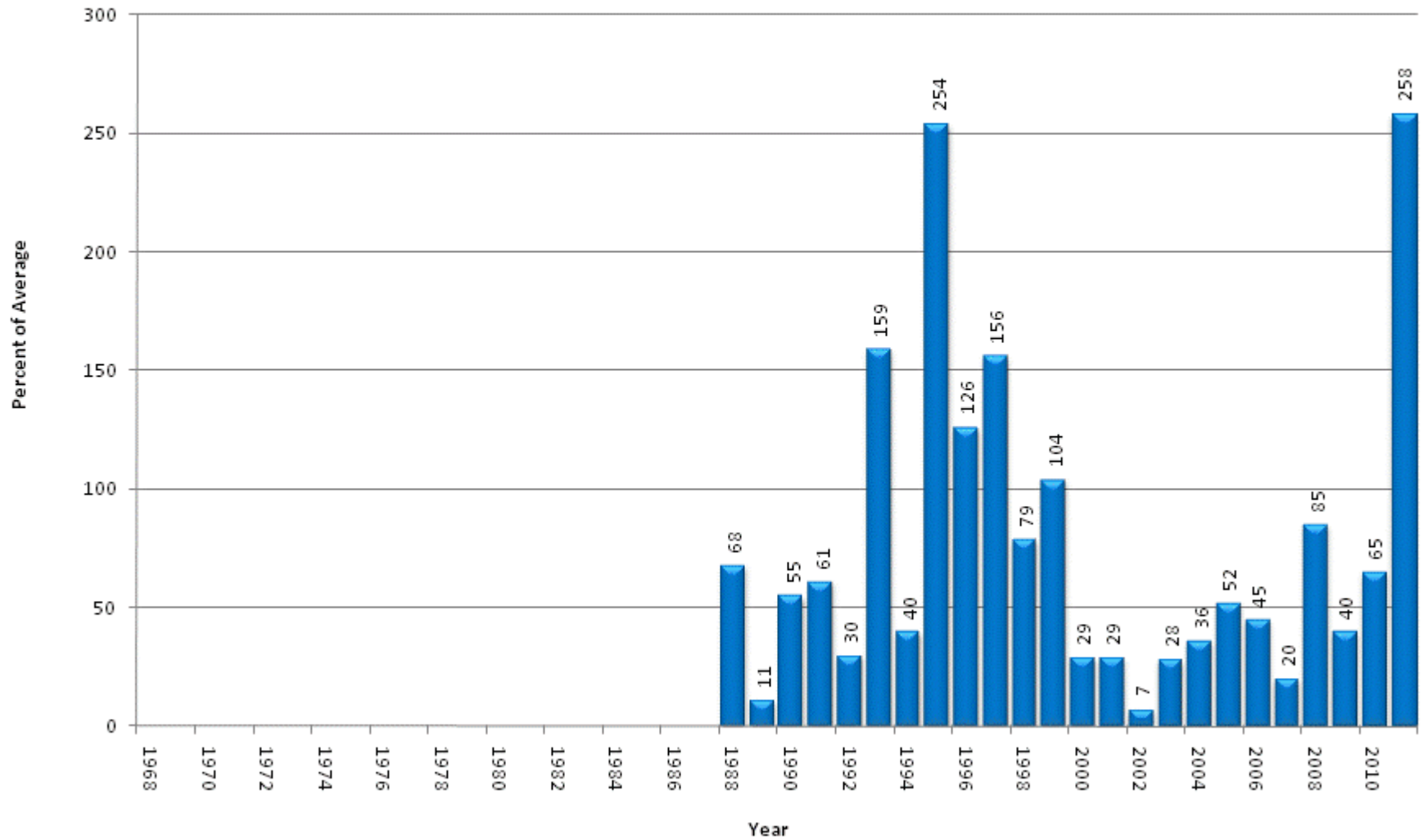


# Yampa, White and North Platte River Basins Snowpack Map

*Provisional Data  
Subject to Revision*

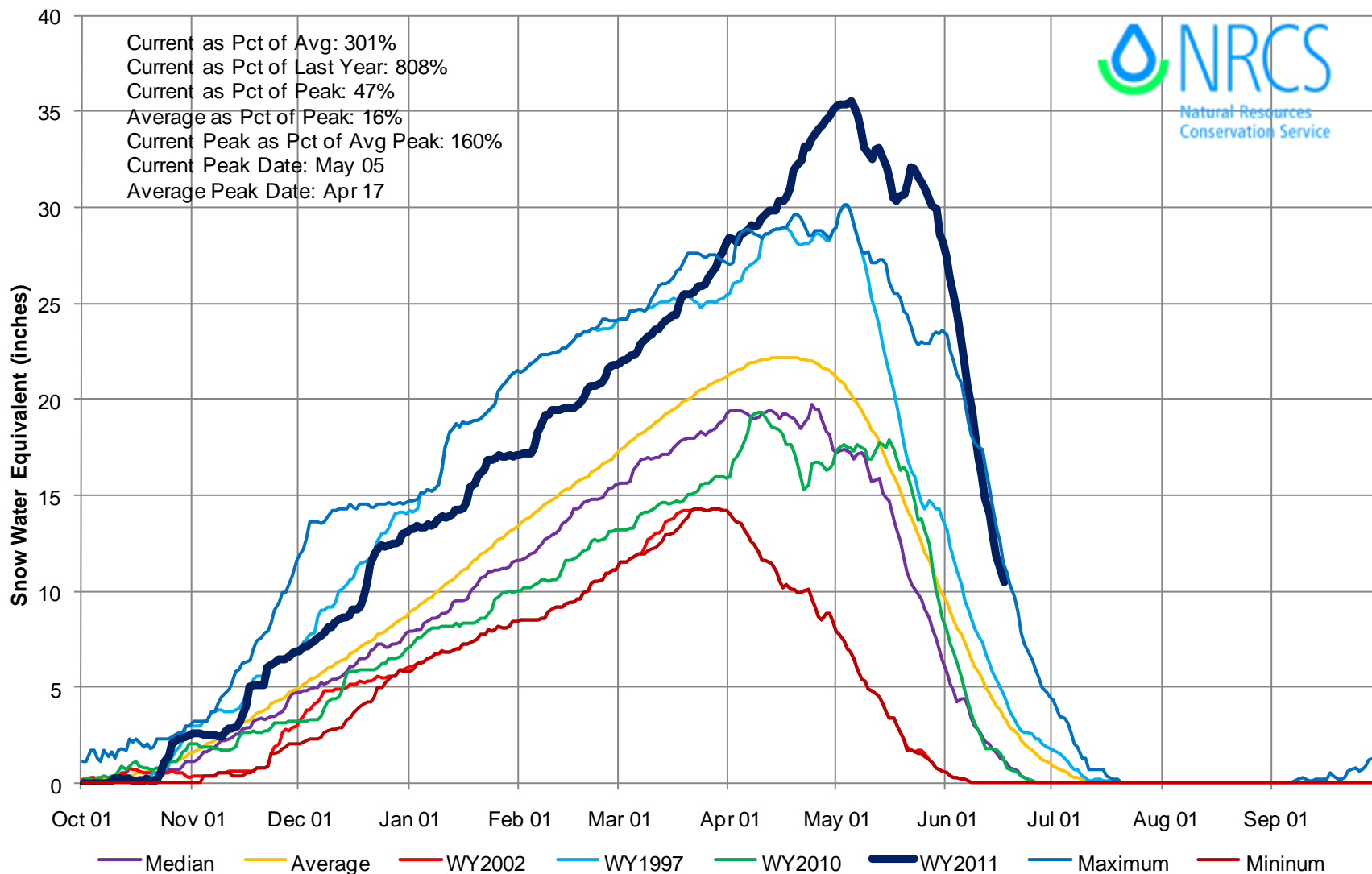


## June 1 Total Yampa & White River Basins Snowpack



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

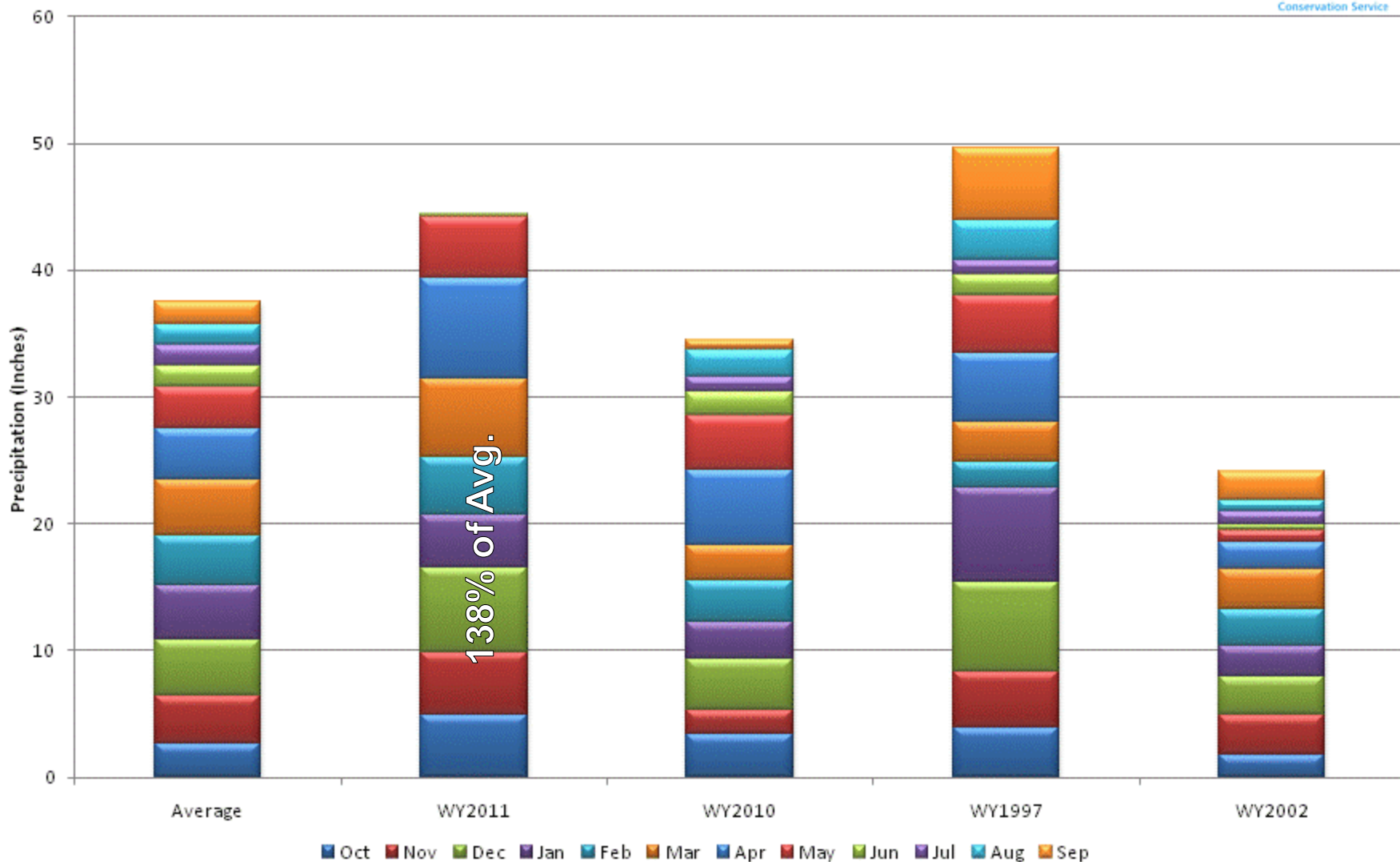
*Based on Provisional SNOTEL data as of Jun 17, 2011*





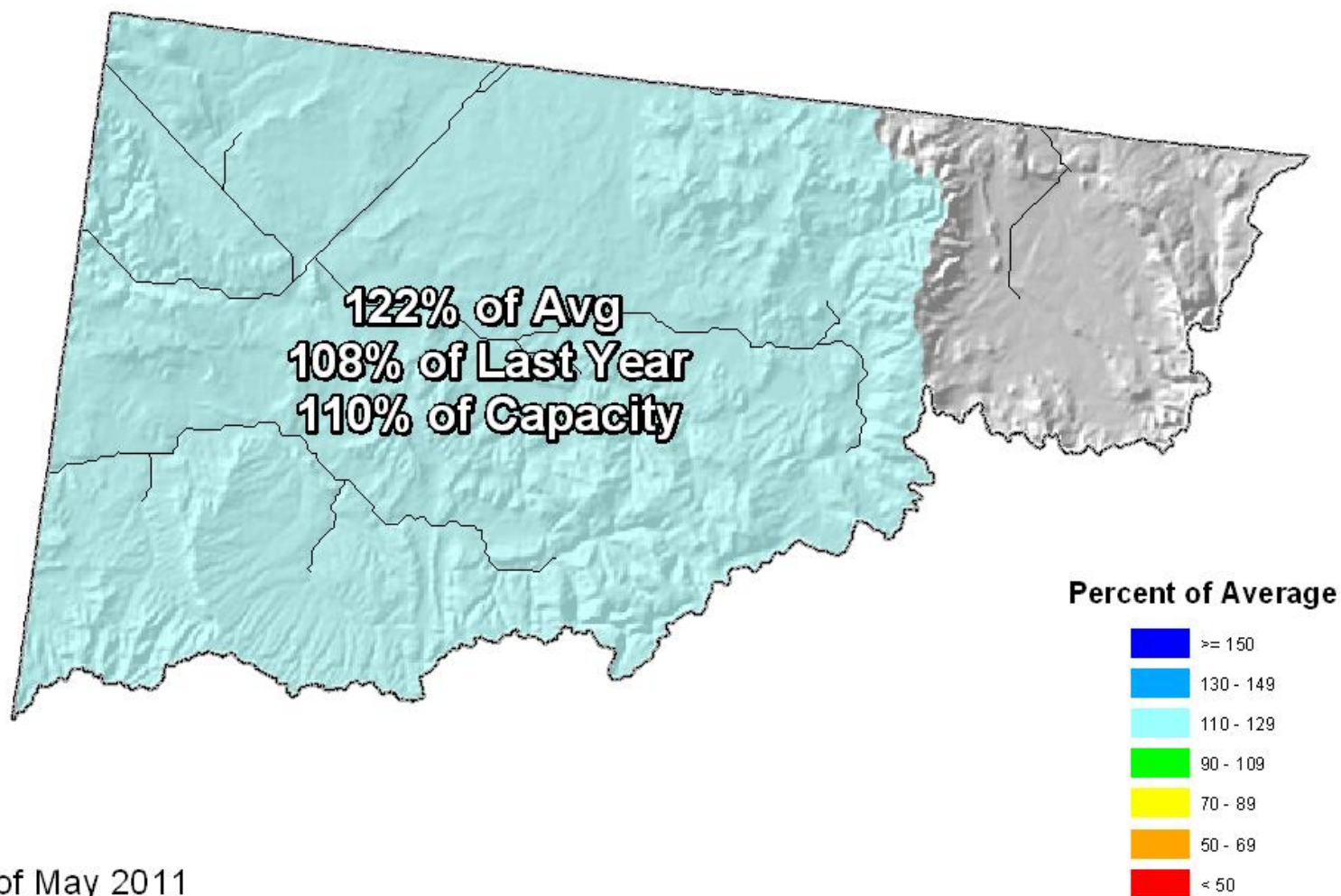
## Yampa and White River Basins High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jun 17, 2011*



# Yampa & White River Basins Reservoir Storage Map

*Provisional Data  
Subject to Revision*

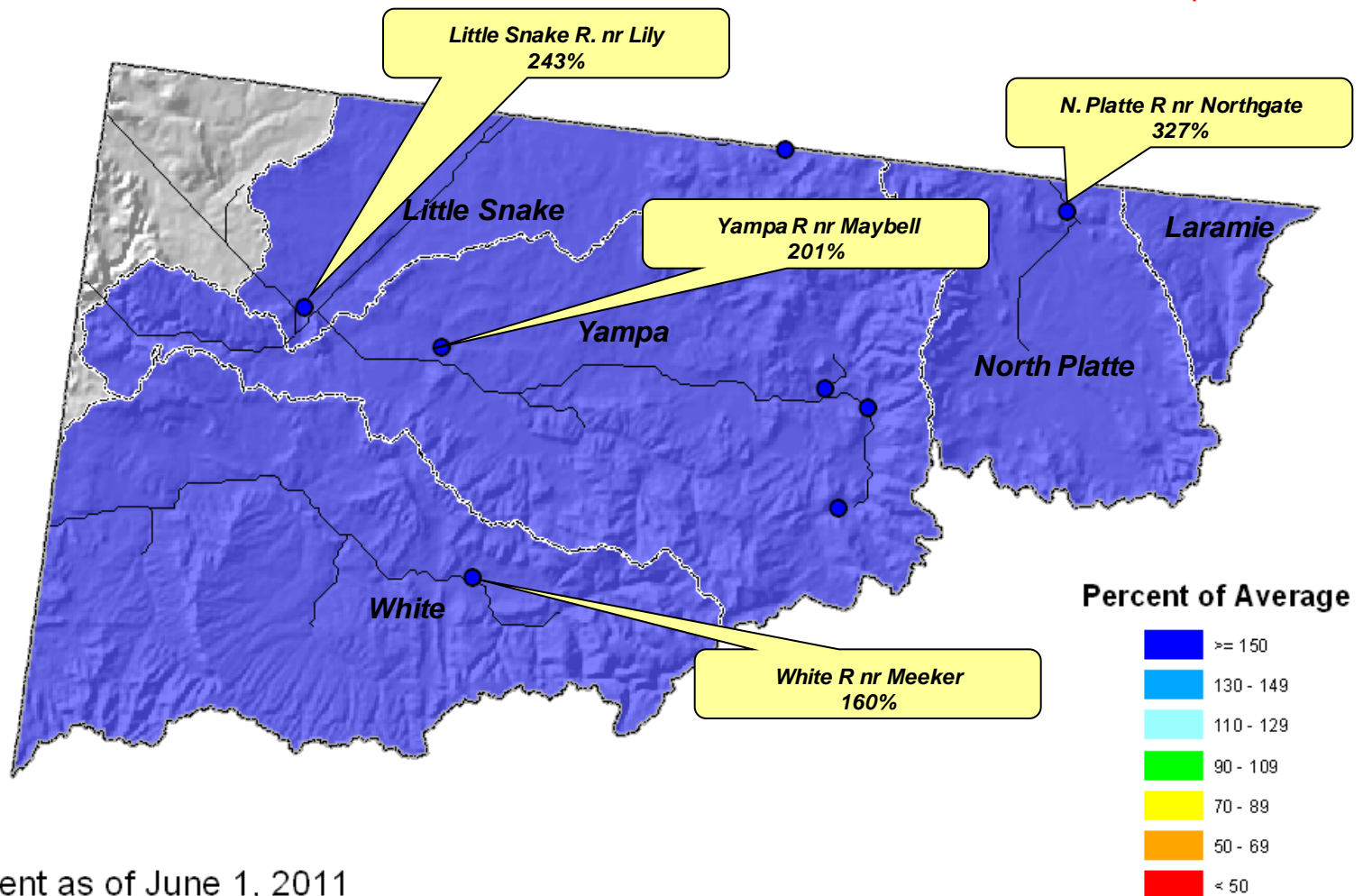


End of May 2011



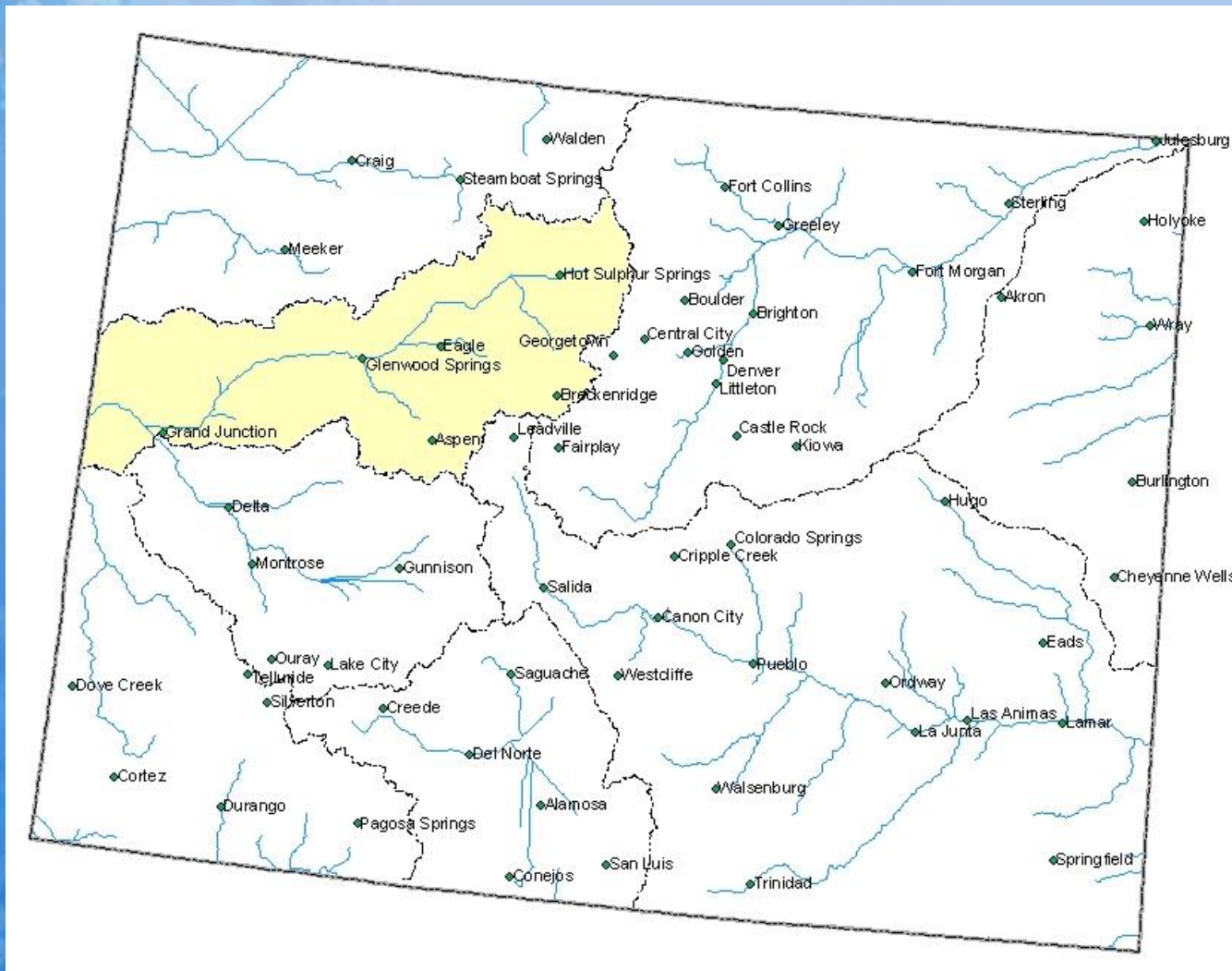
# Yampa, White and North Platte River Basins Streamflow Map

*Provisional Data  
Subject to Revision*



Current as of June 1, 2011

# Colorado River Basin Summary

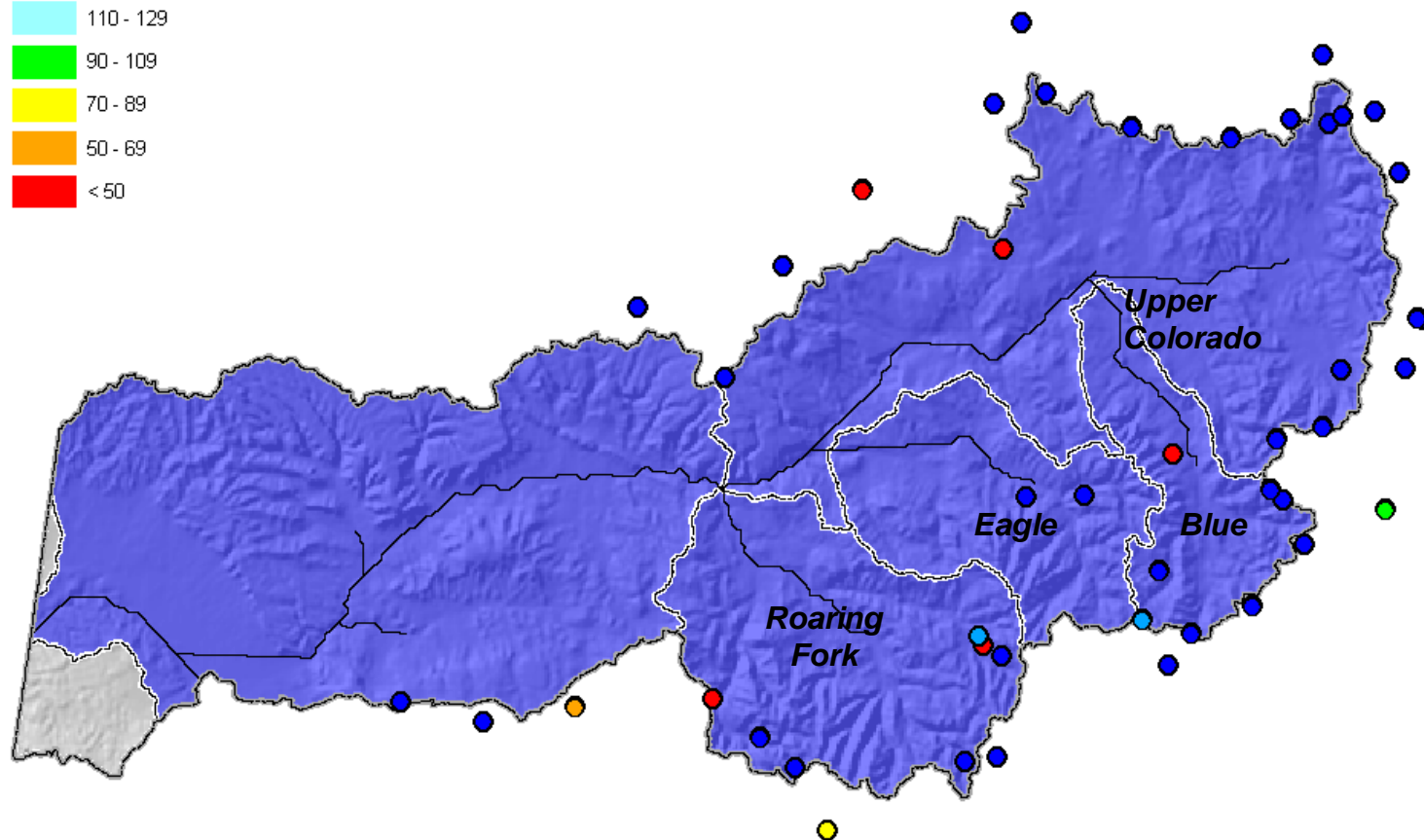


# Colorado River Basin Snowpack Map

## Percent of Average



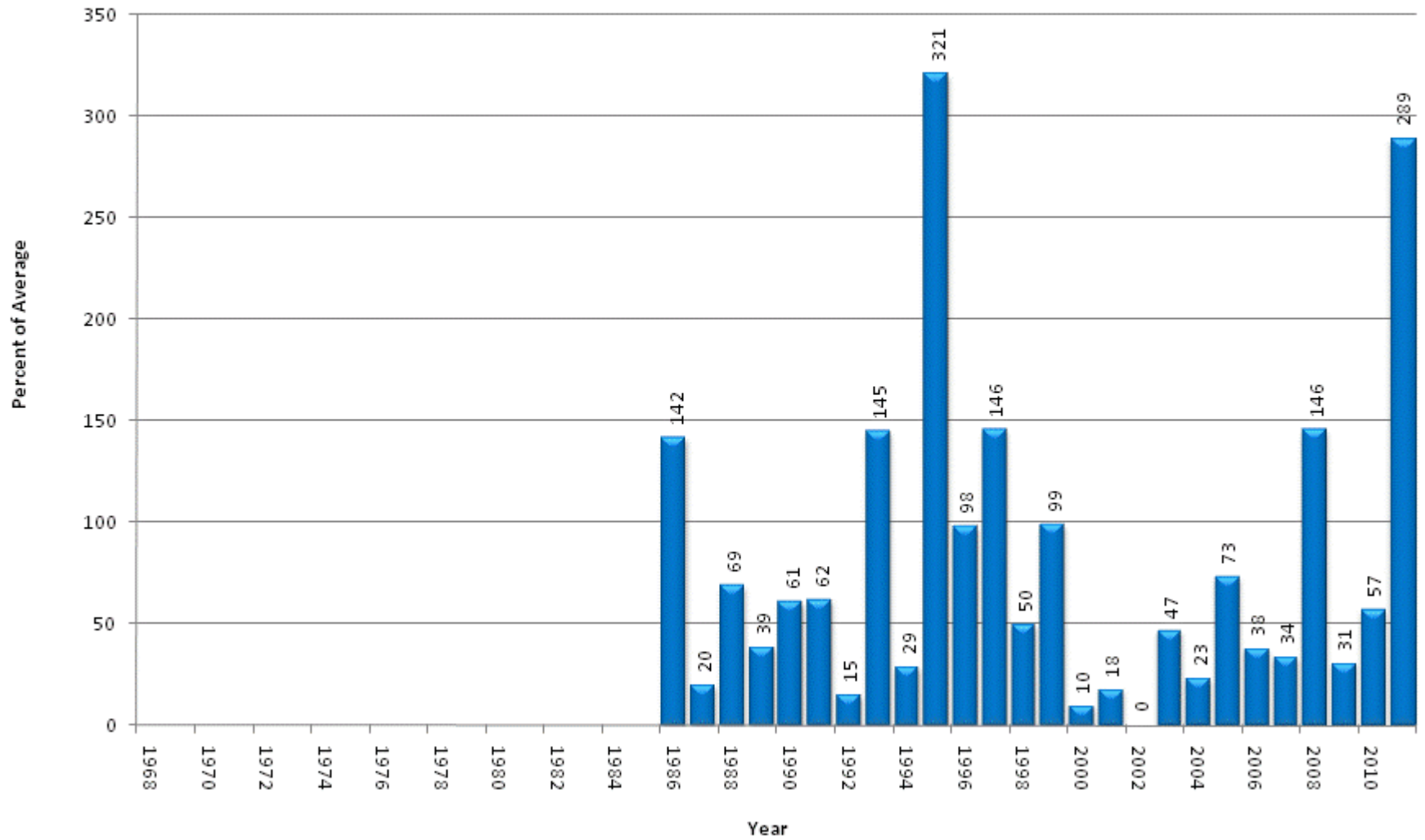
*Provisional Data  
Subject to Revision*



Current as of June 1, 2011

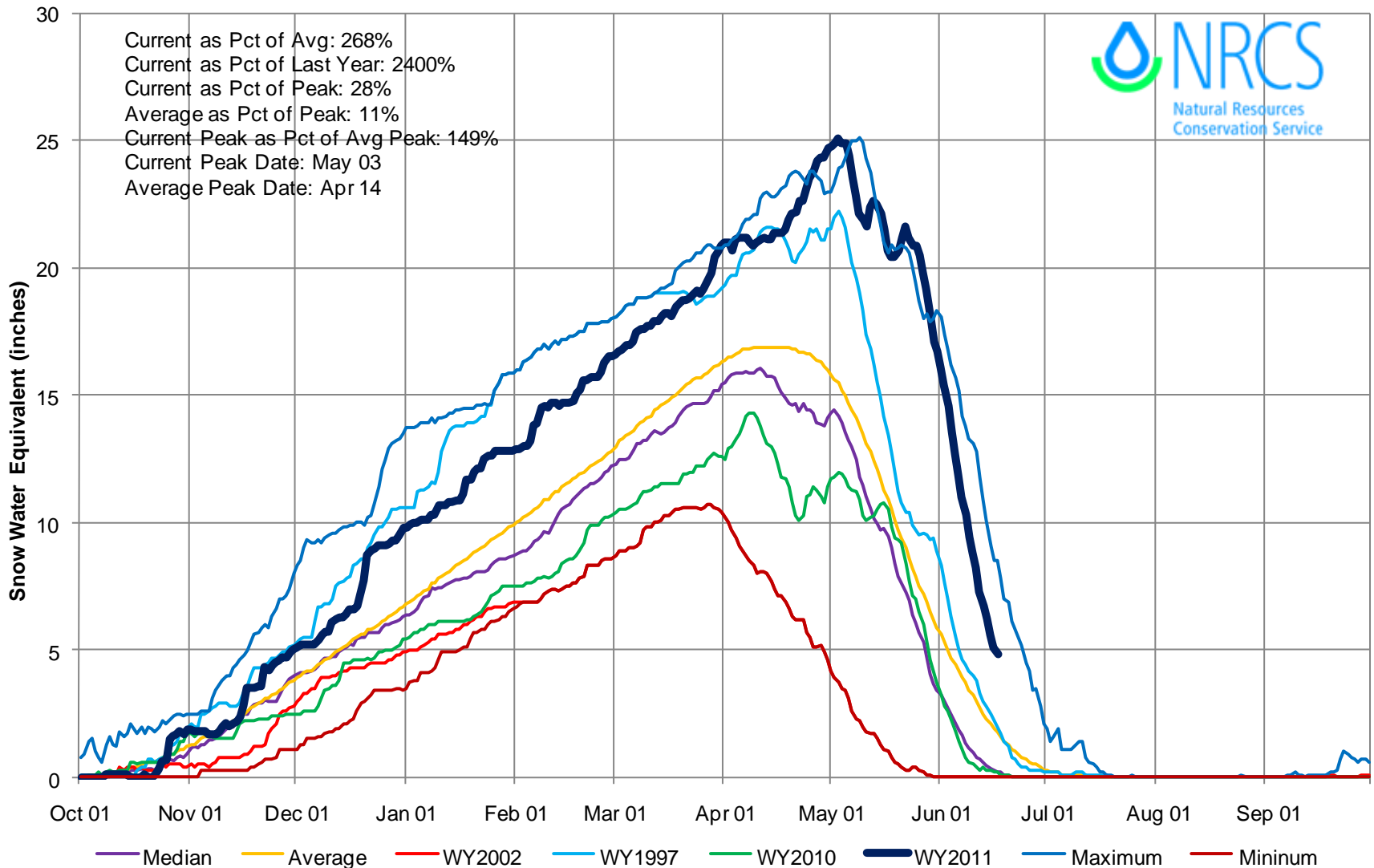


## June 1 Total Colorado River Basin Snowpack



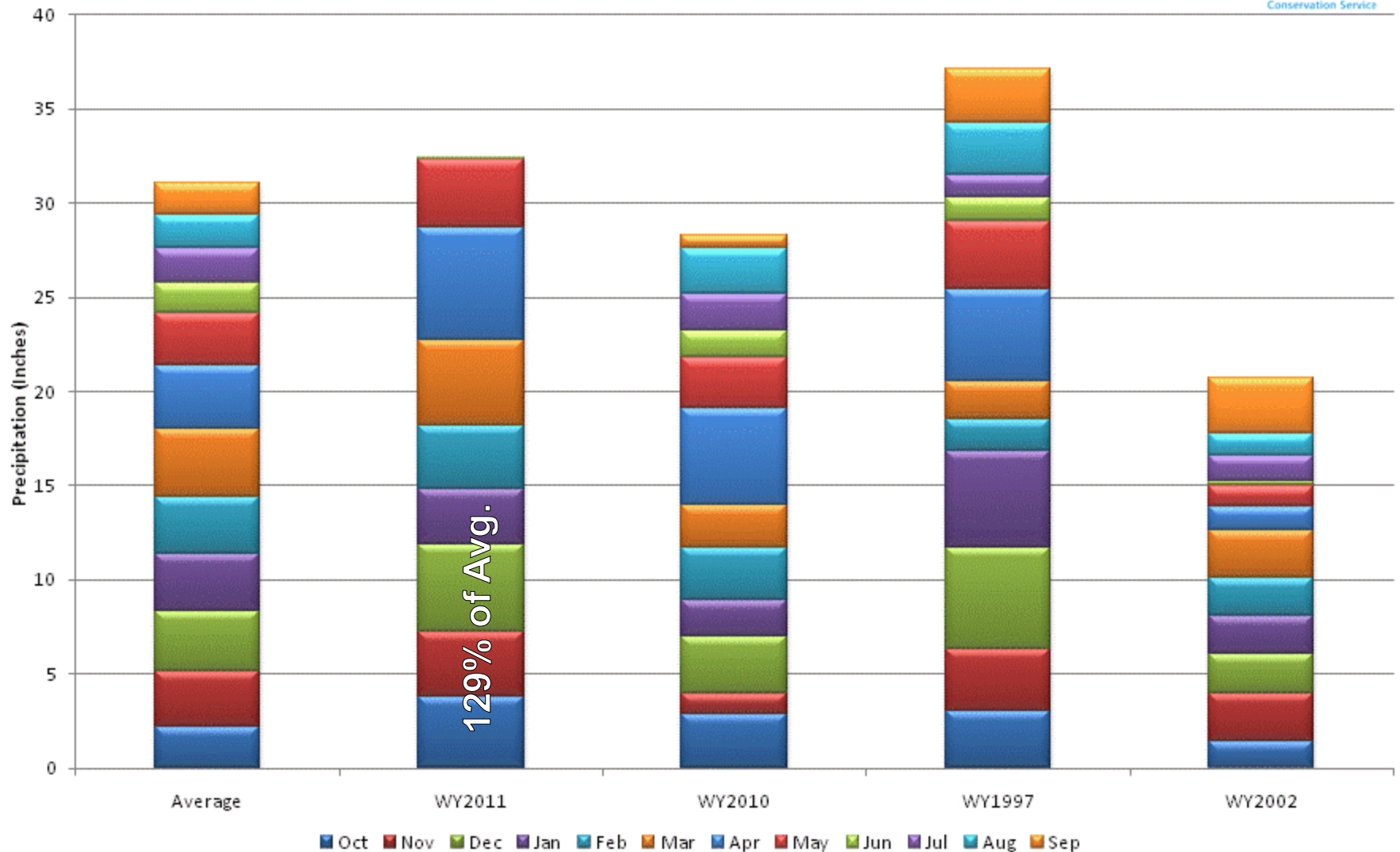
## Upper Colorado River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jun 17, 2011*



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

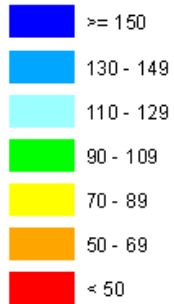
*Based on Provisional SNOTEL data as of Jun 17, 2011*



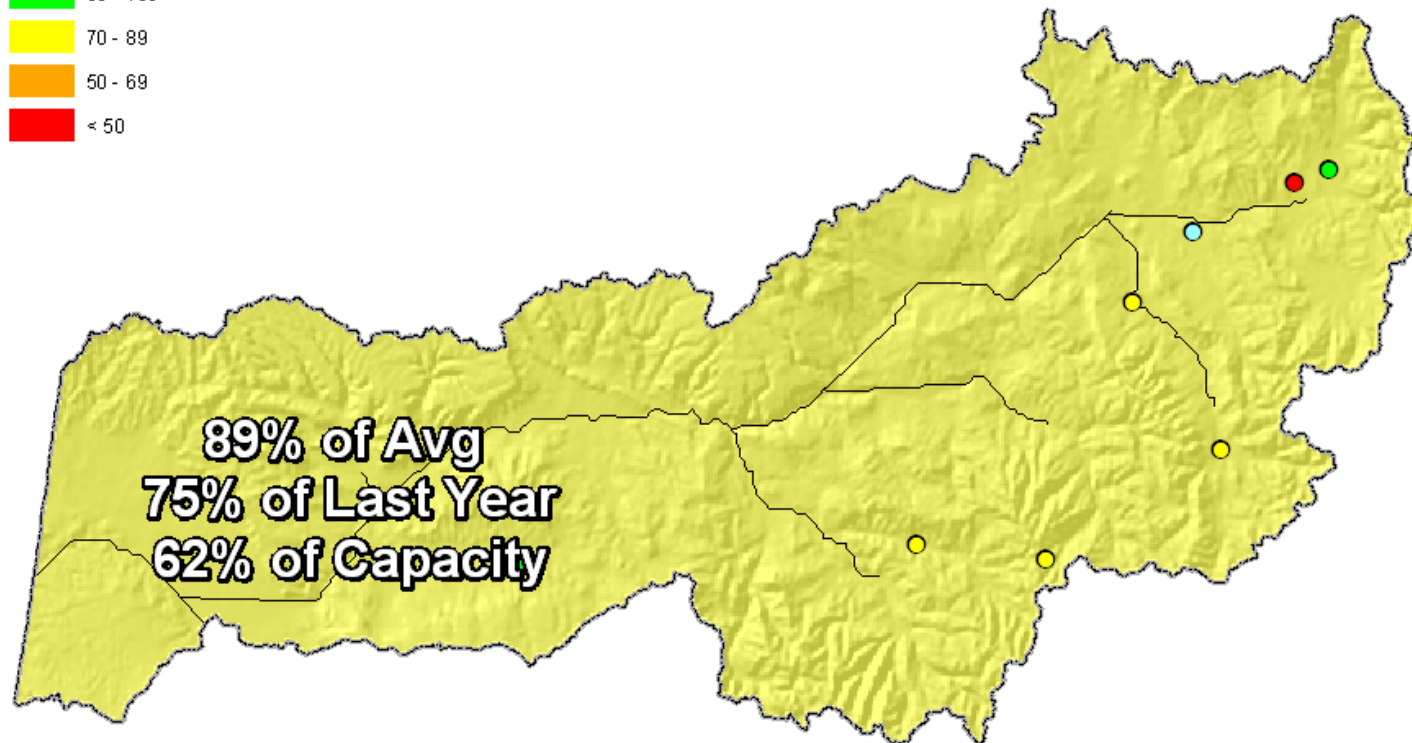


# Colorado River Basin Reservoir Storage Map

## Percent of Average

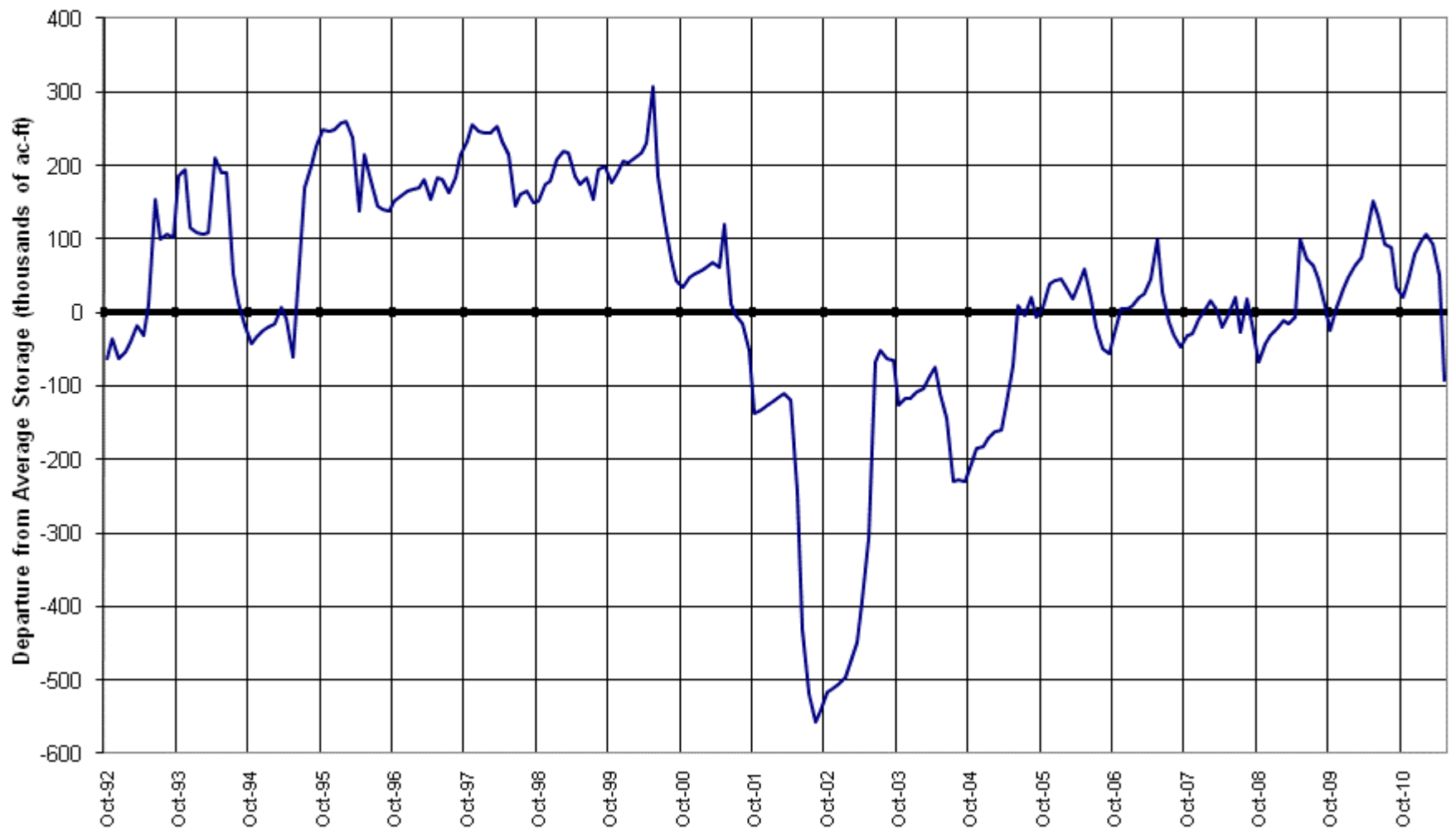


*Provisional Data  
Subject to Revision*



End of May 2011

**COLORADO RIVER BASIN**  
**Reservoir Storage**  
**Departure from Average**

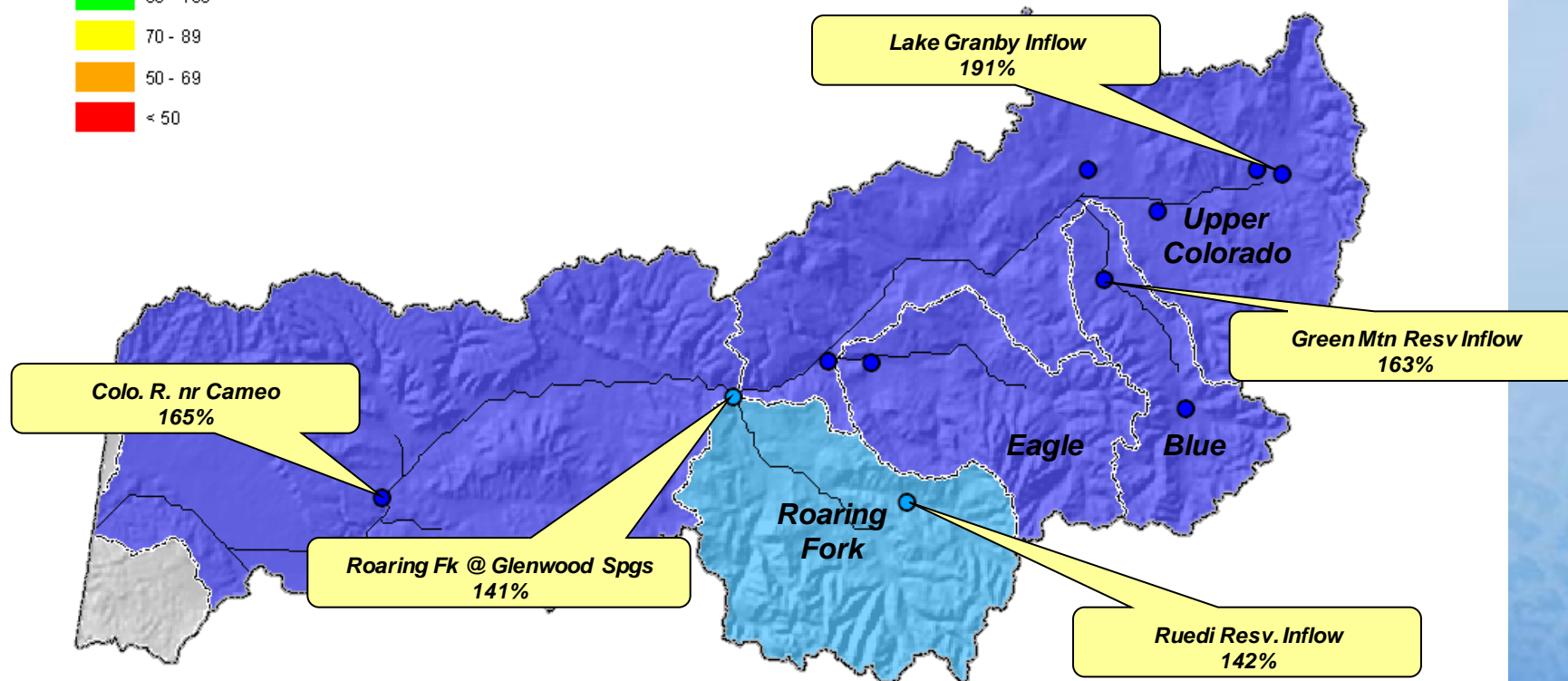


# Colorado River Basin Streamflow Forecast Map

Percent of Average



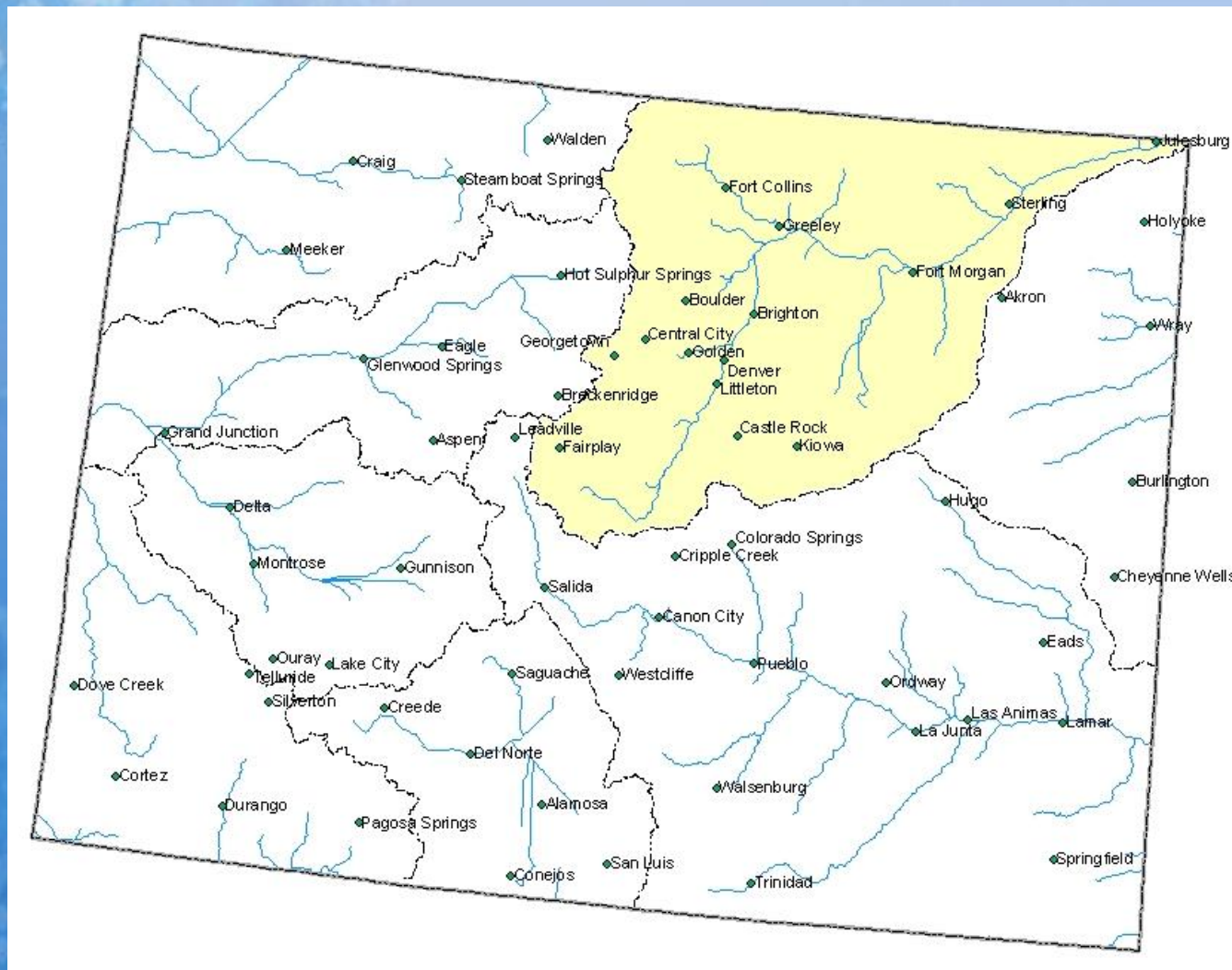
*Provisional Data  
Subject to Revision*



Current as of June 1, 2011      Lake Powell Inflow: Apr-Jul 12.6 million ac-ft 159% avg.  
Projected Rise of 40' Elevation near December 2001 Levels  
As of 6/01/2011



# South Platte River Basin Summary

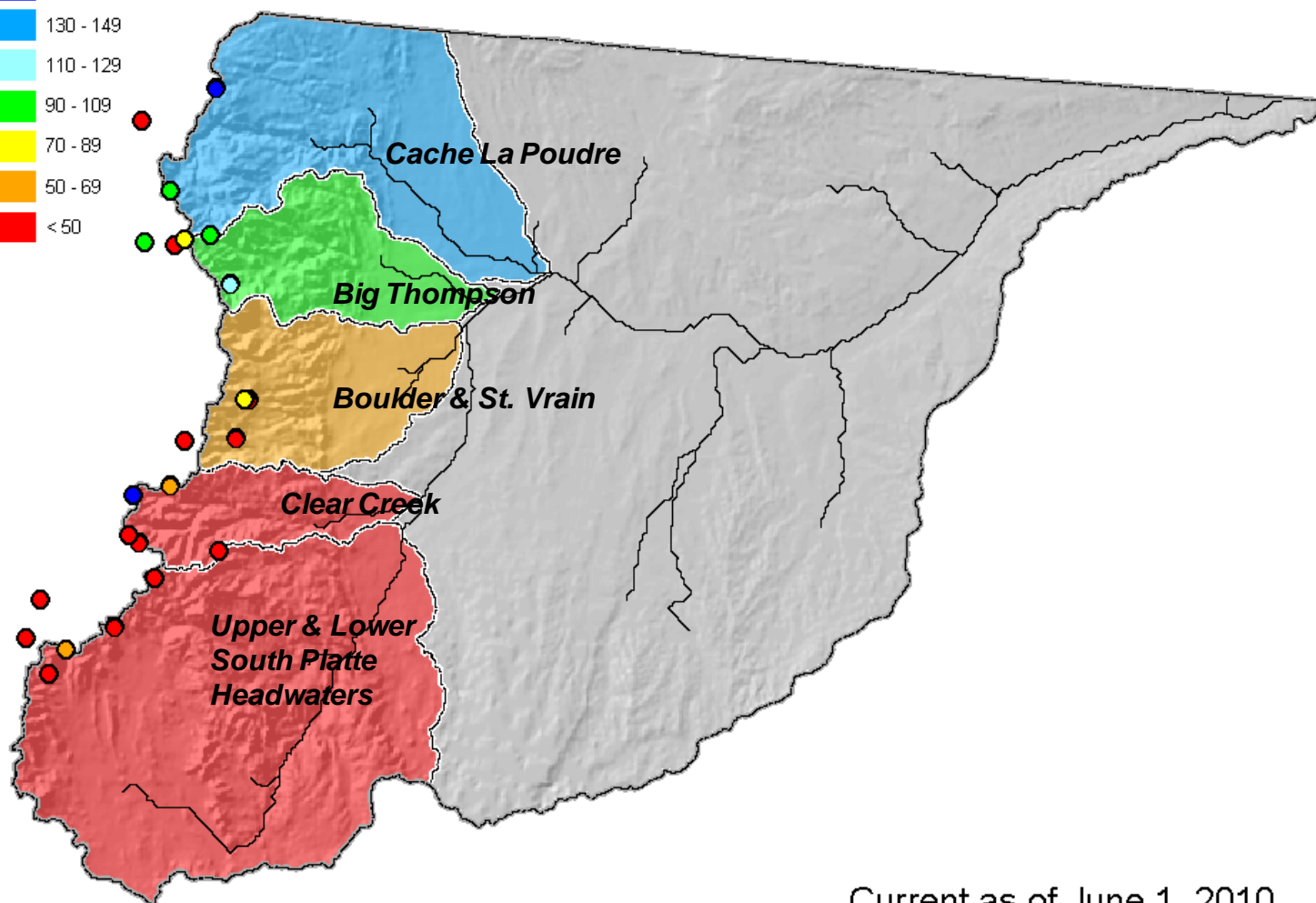


# South Platte River Basin Snowpack Map

Percent of Average

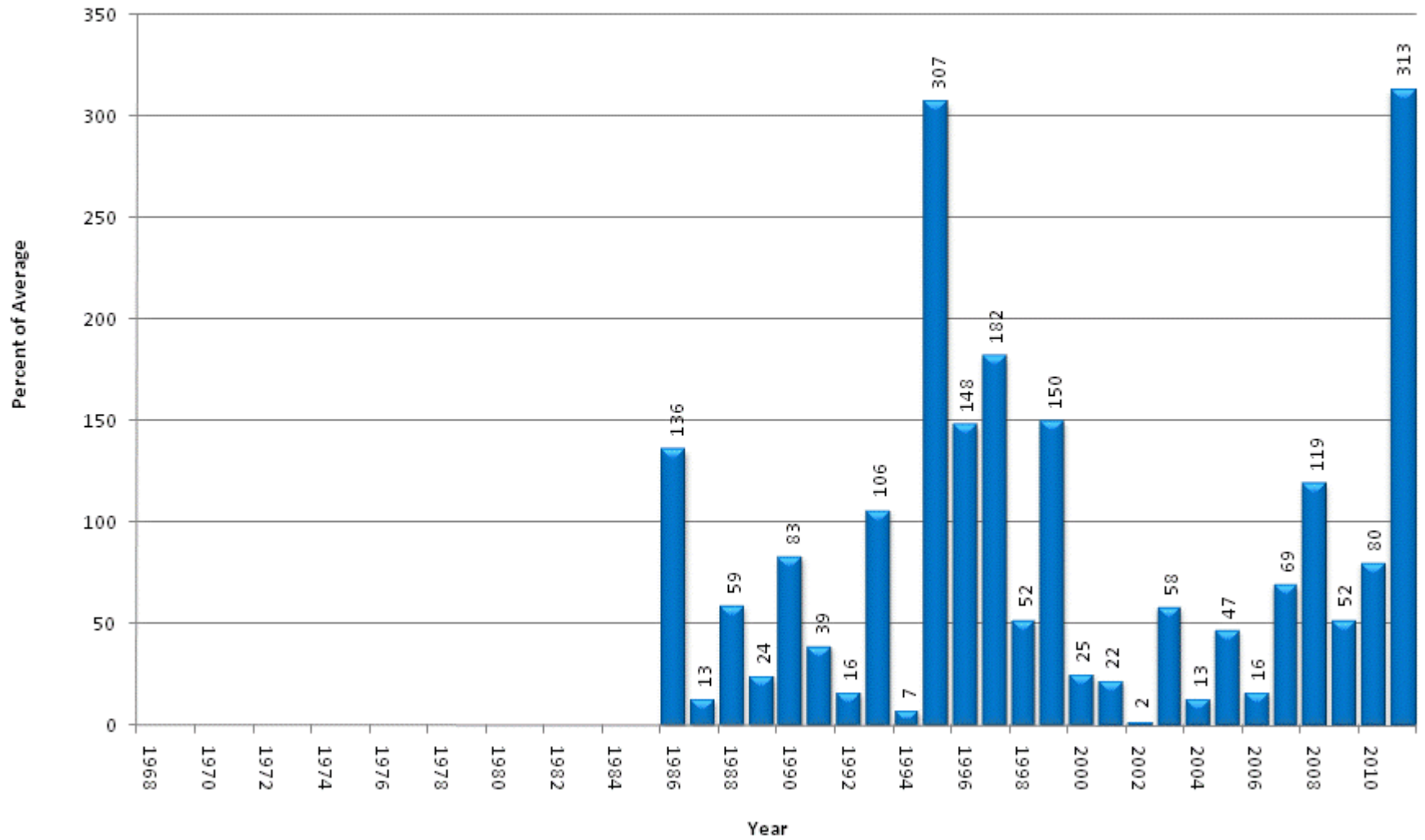


*Provisional Data  
Subject to Revision*



Current as of June 1, 2010

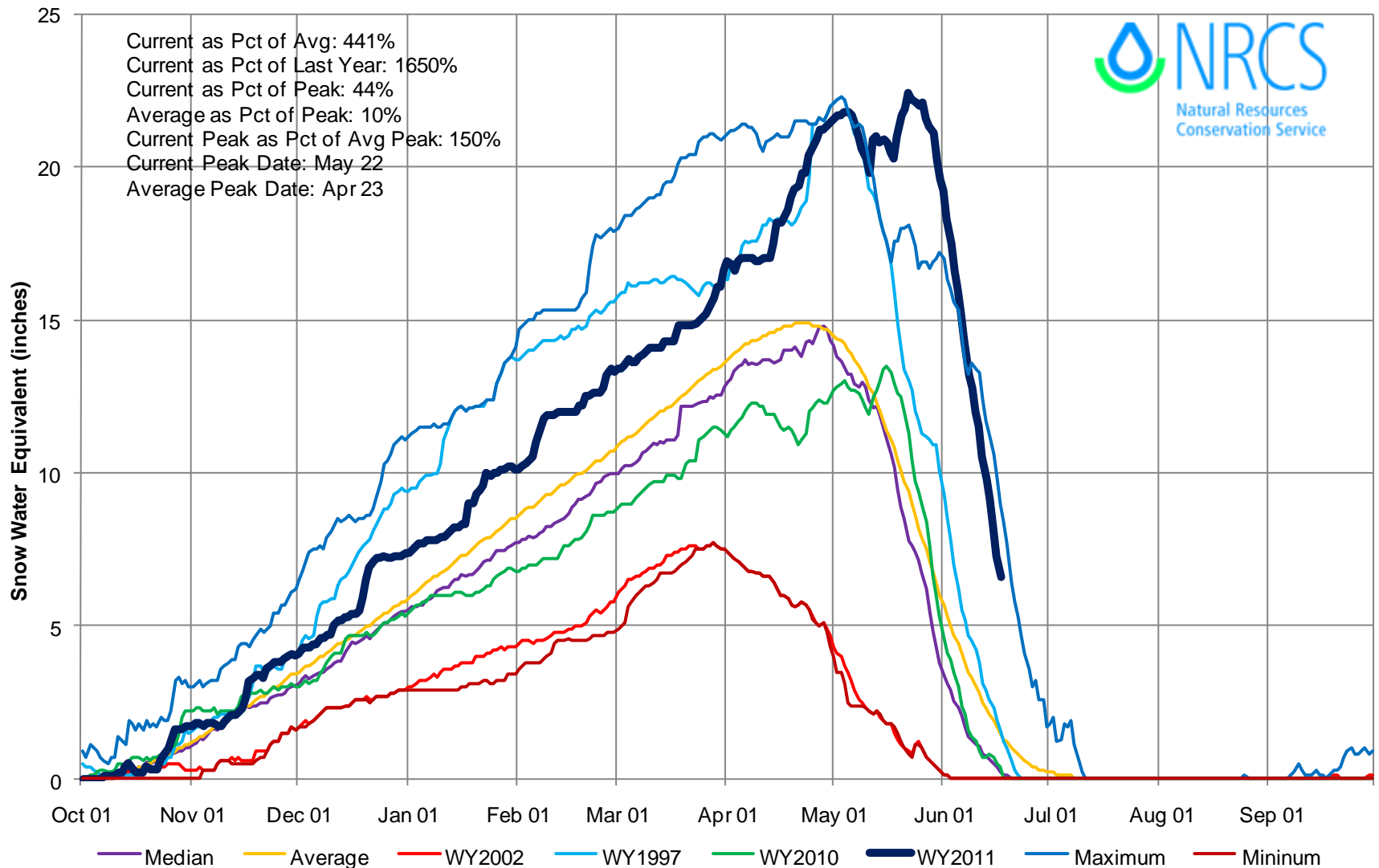
## June 1 Total South Platte River Basin Snowpack





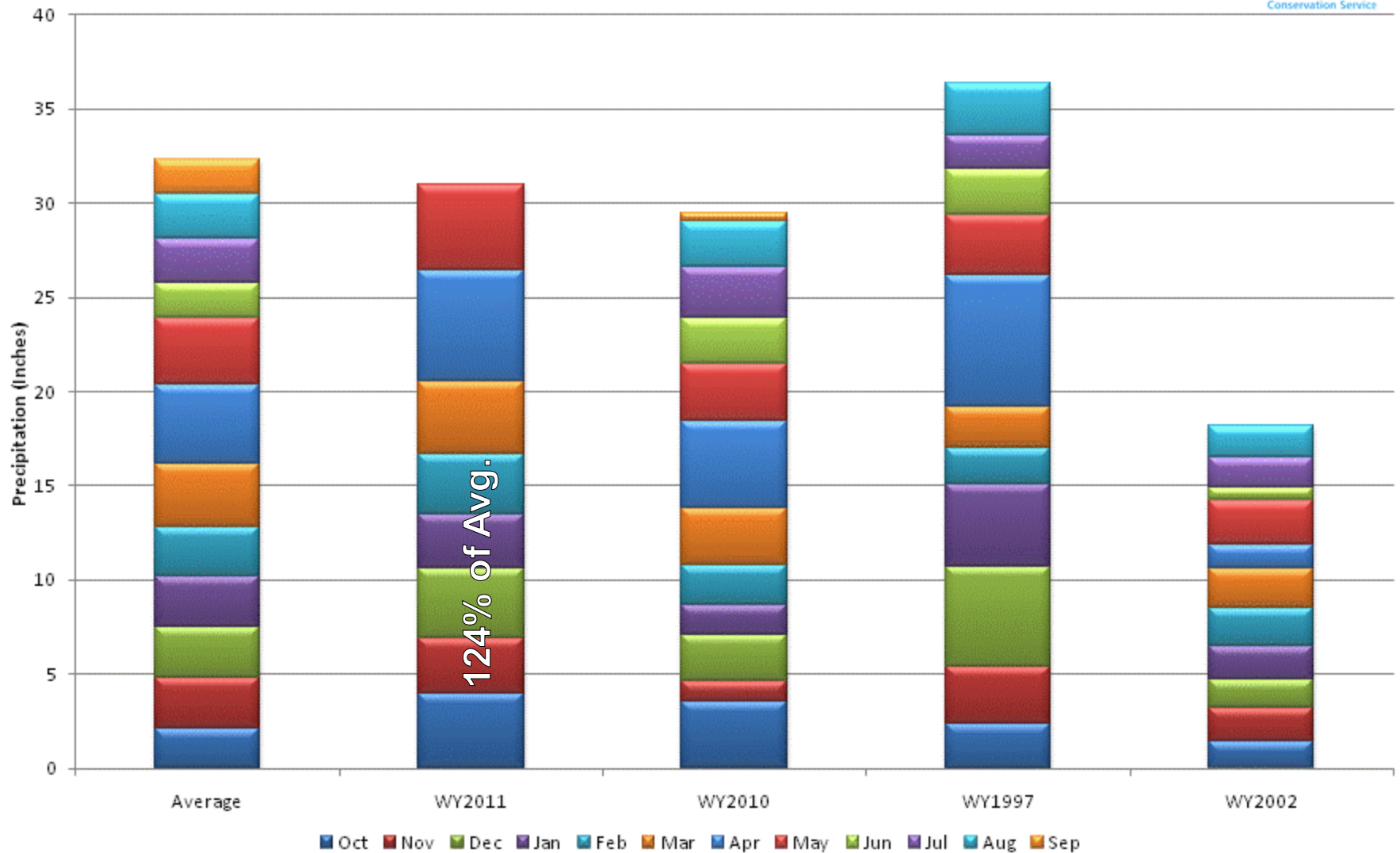
## South Platte River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jun 17, 2011*



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

*Based on Provisional SNOTEL data as of Jun 17, 2011*

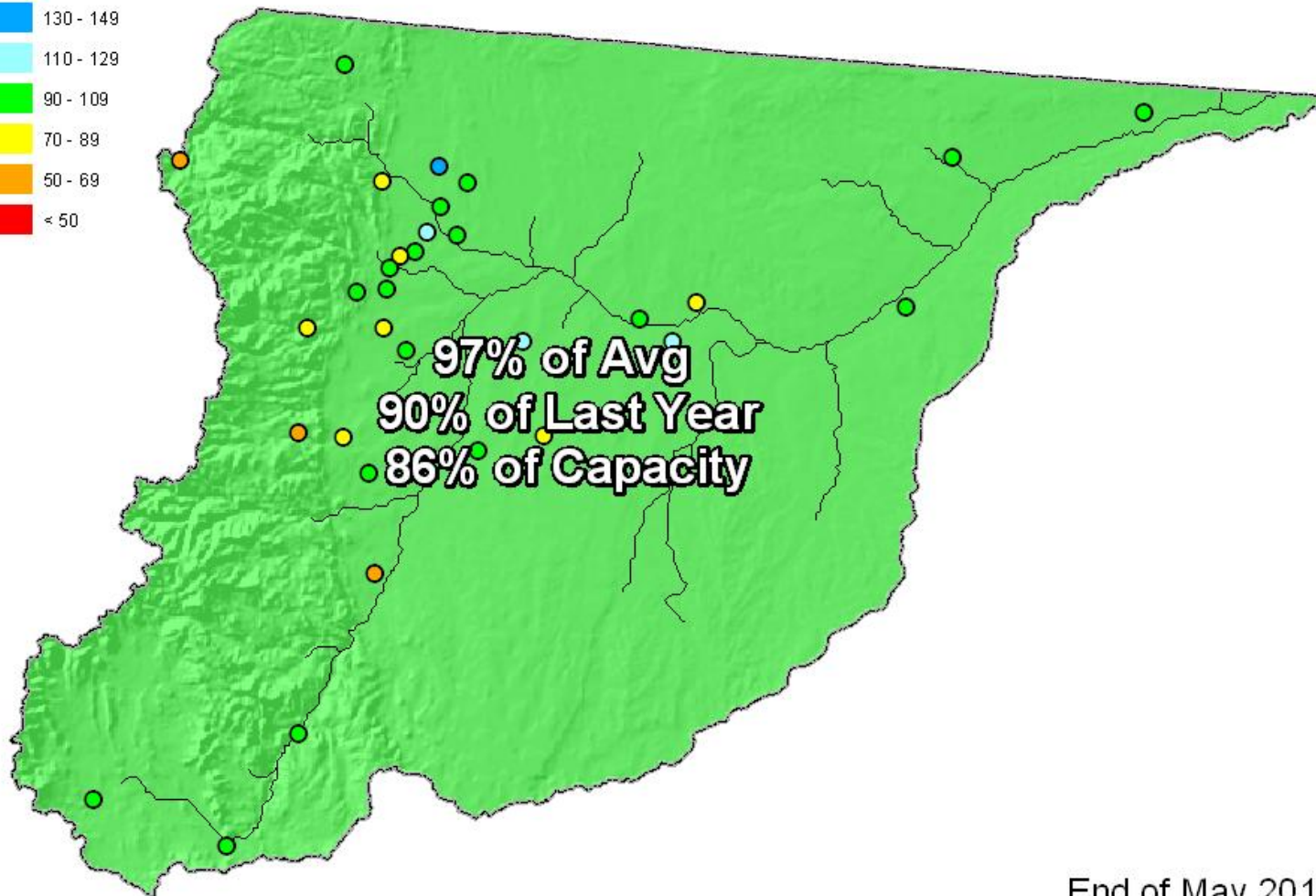


# South Platte River Basin Reservoir Storage Map

## Percent of Average

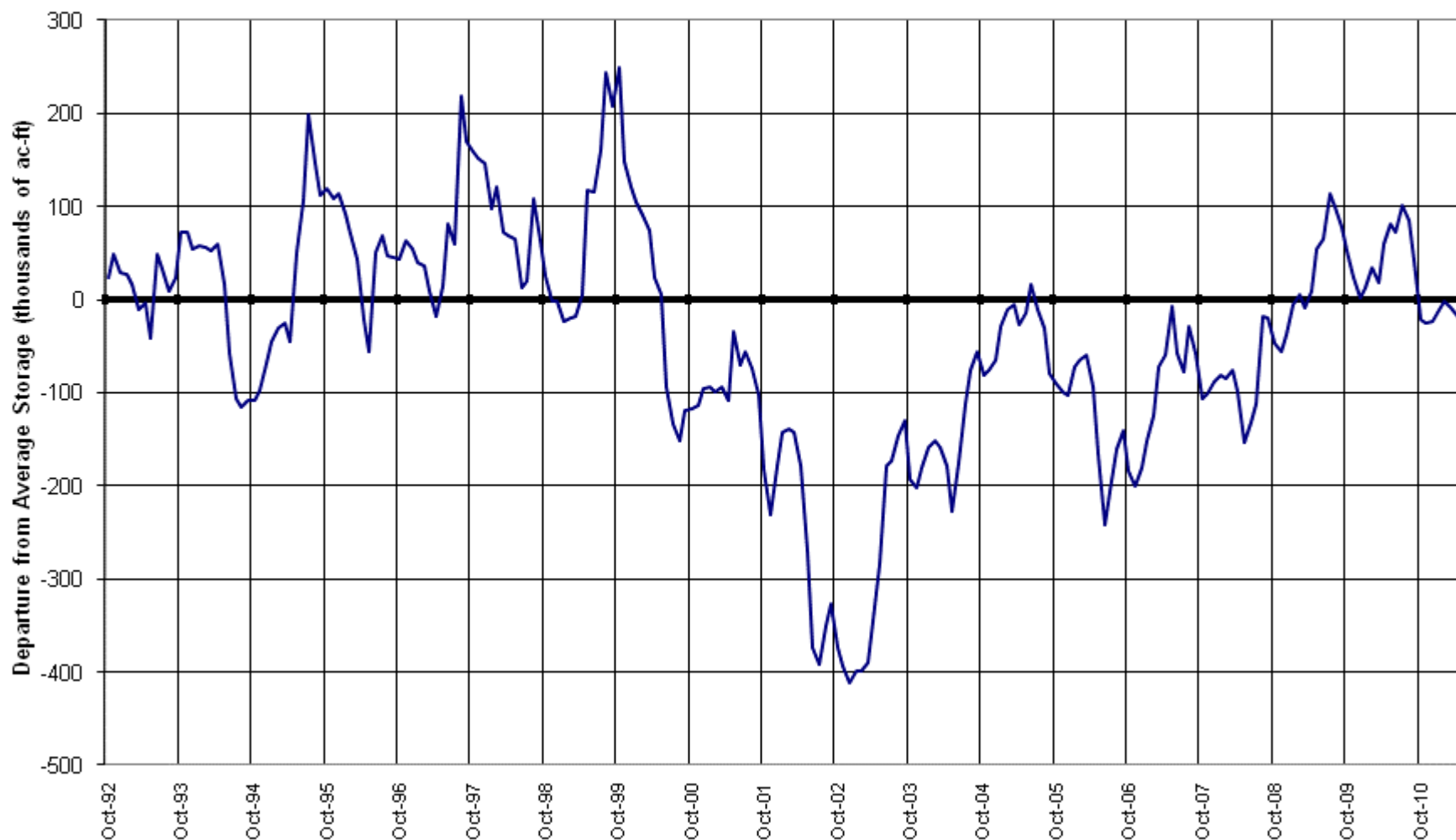


*Provisional Data  
Subject to Revision*



End of May 2011

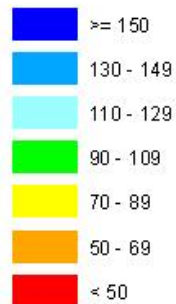
**SOUTH PLATTE RIVER BASIN**  
**Reservoir Storage**  
**Departure from Average**



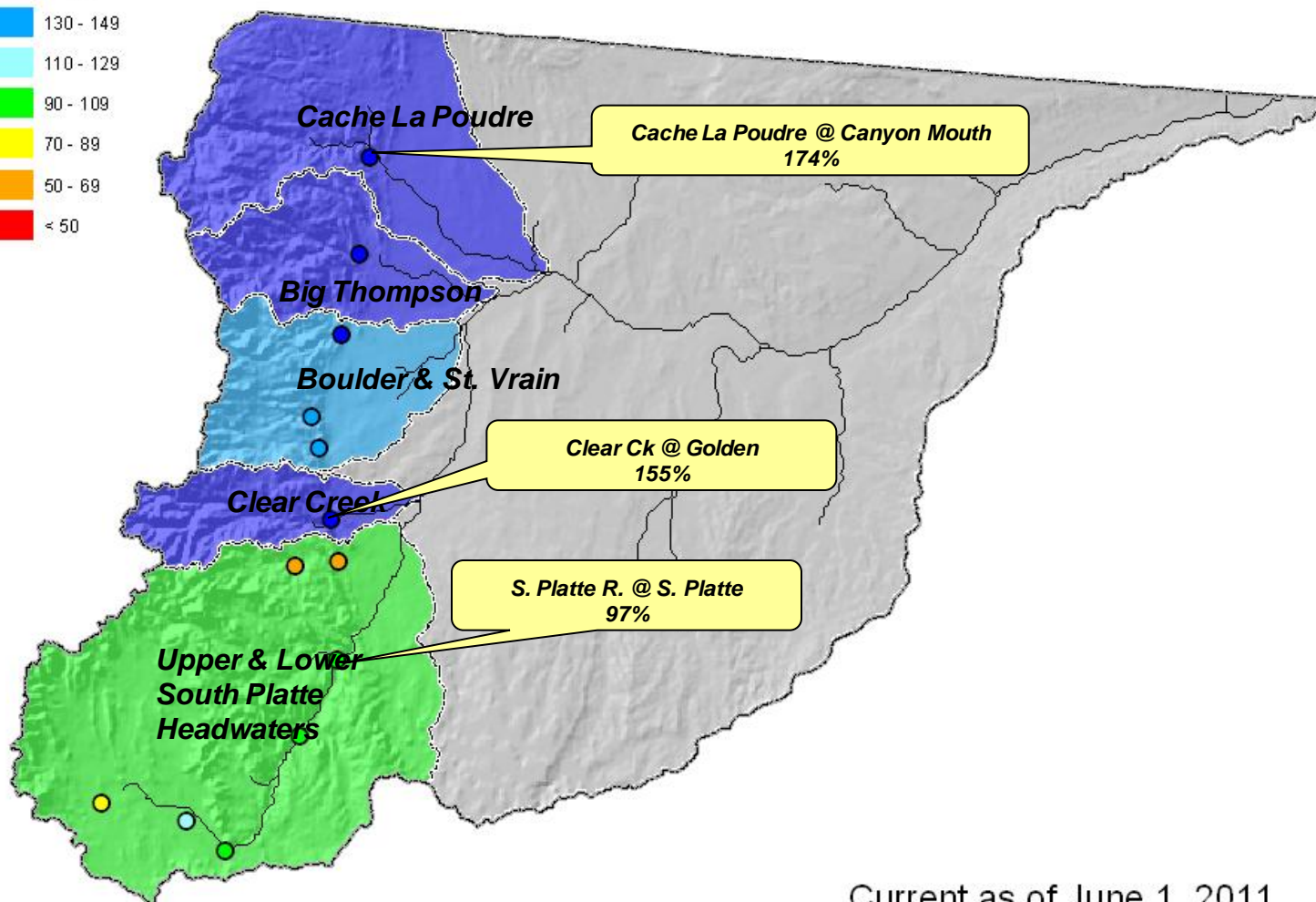


# South Platte River Basin Streamflow Forecast Map

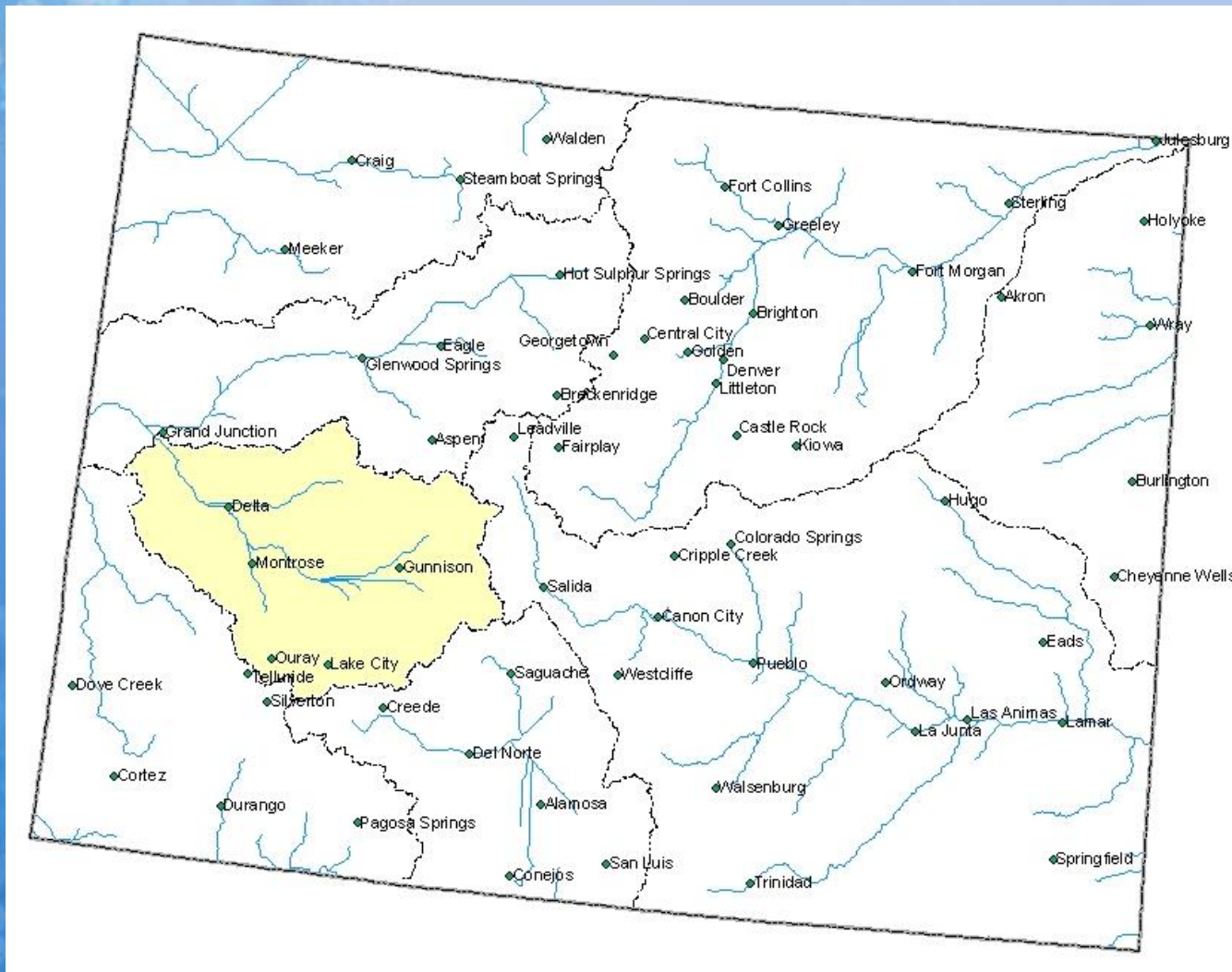
Percent of Average



*Provisional Data  
Subject to Revision*

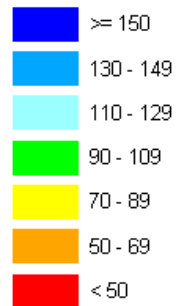


# Gunnison River Basin Summary

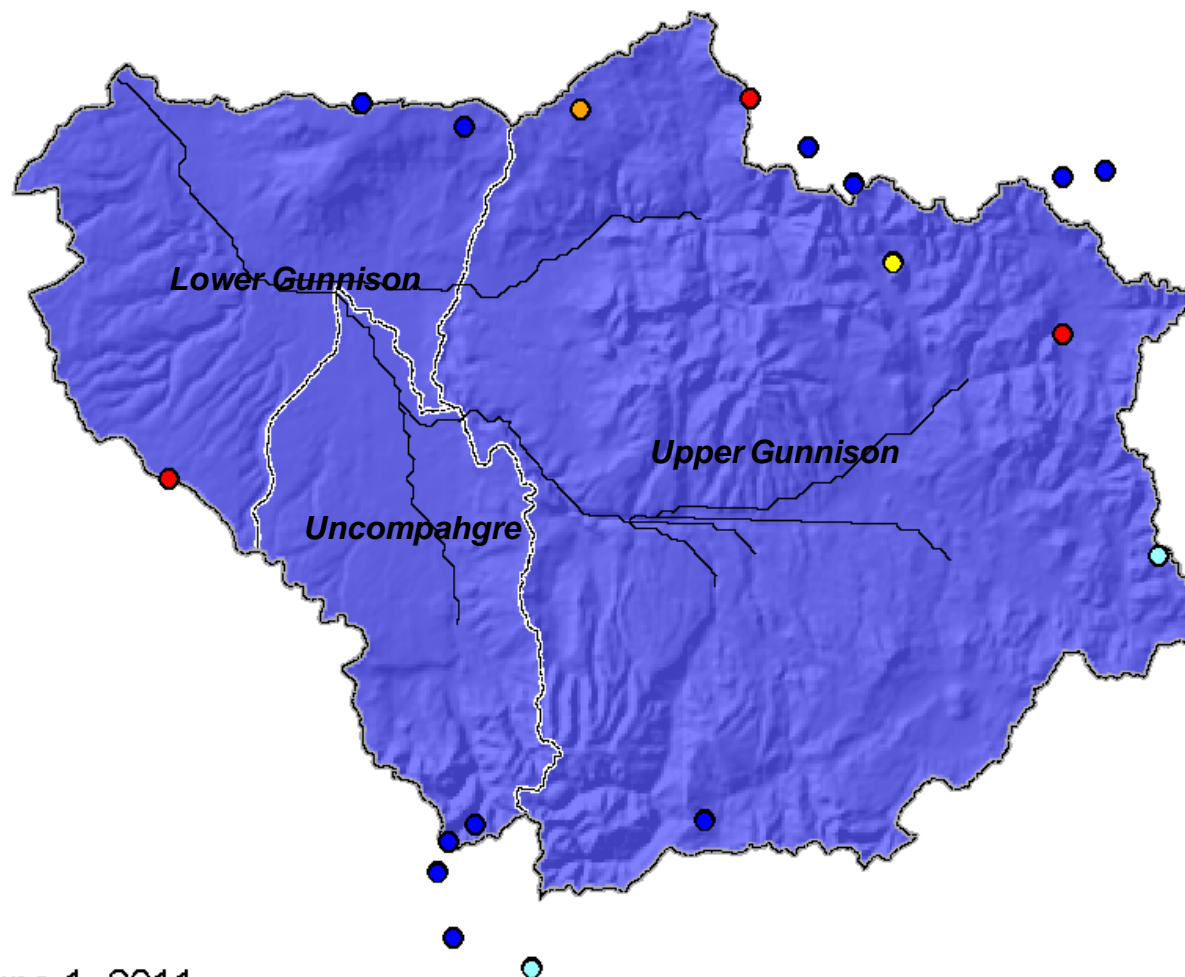


# Gunnison River Basin Snowpack Map

Percent of Average

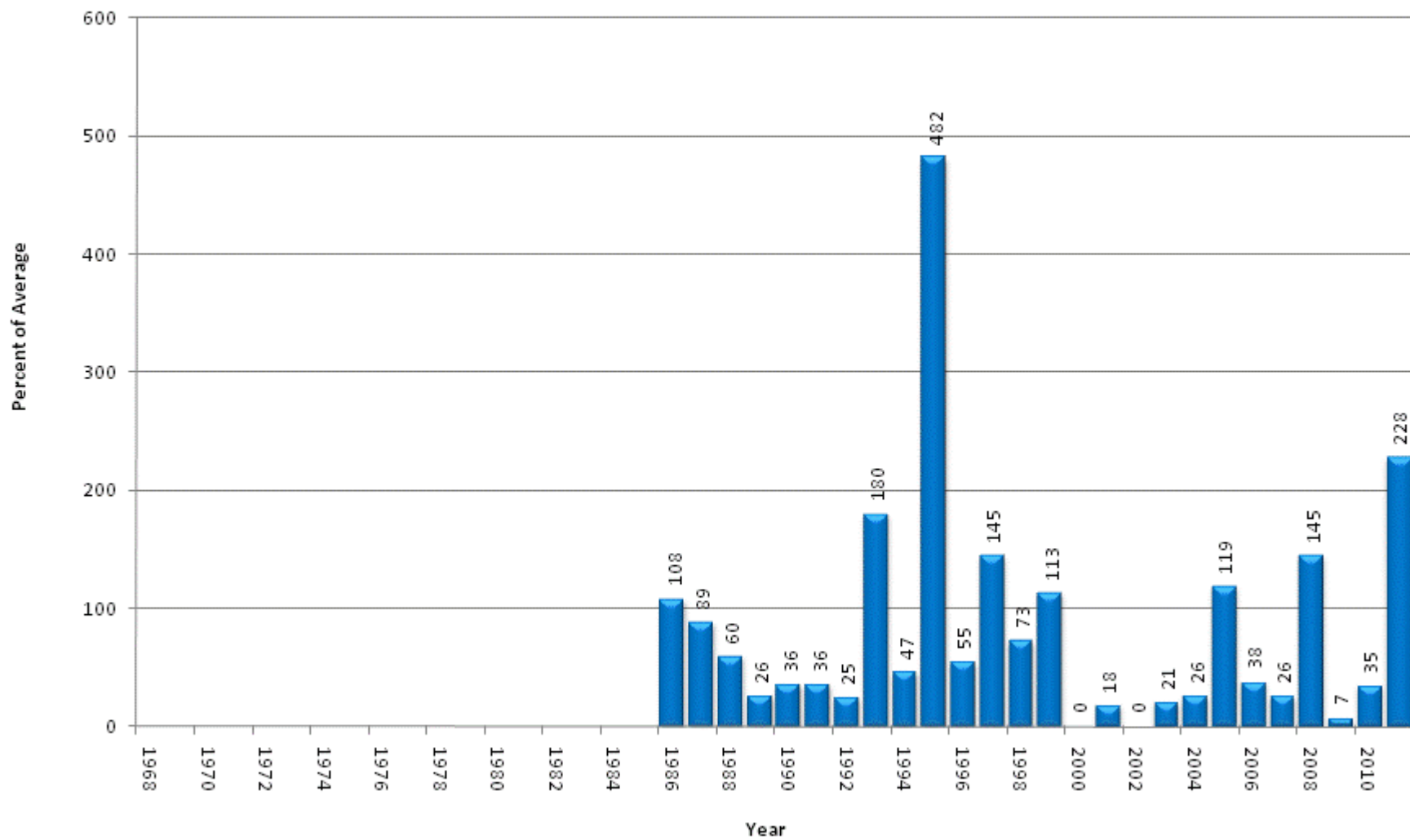


*Provisional Data  
Subject to Revision*



Current as of June 1, 2011

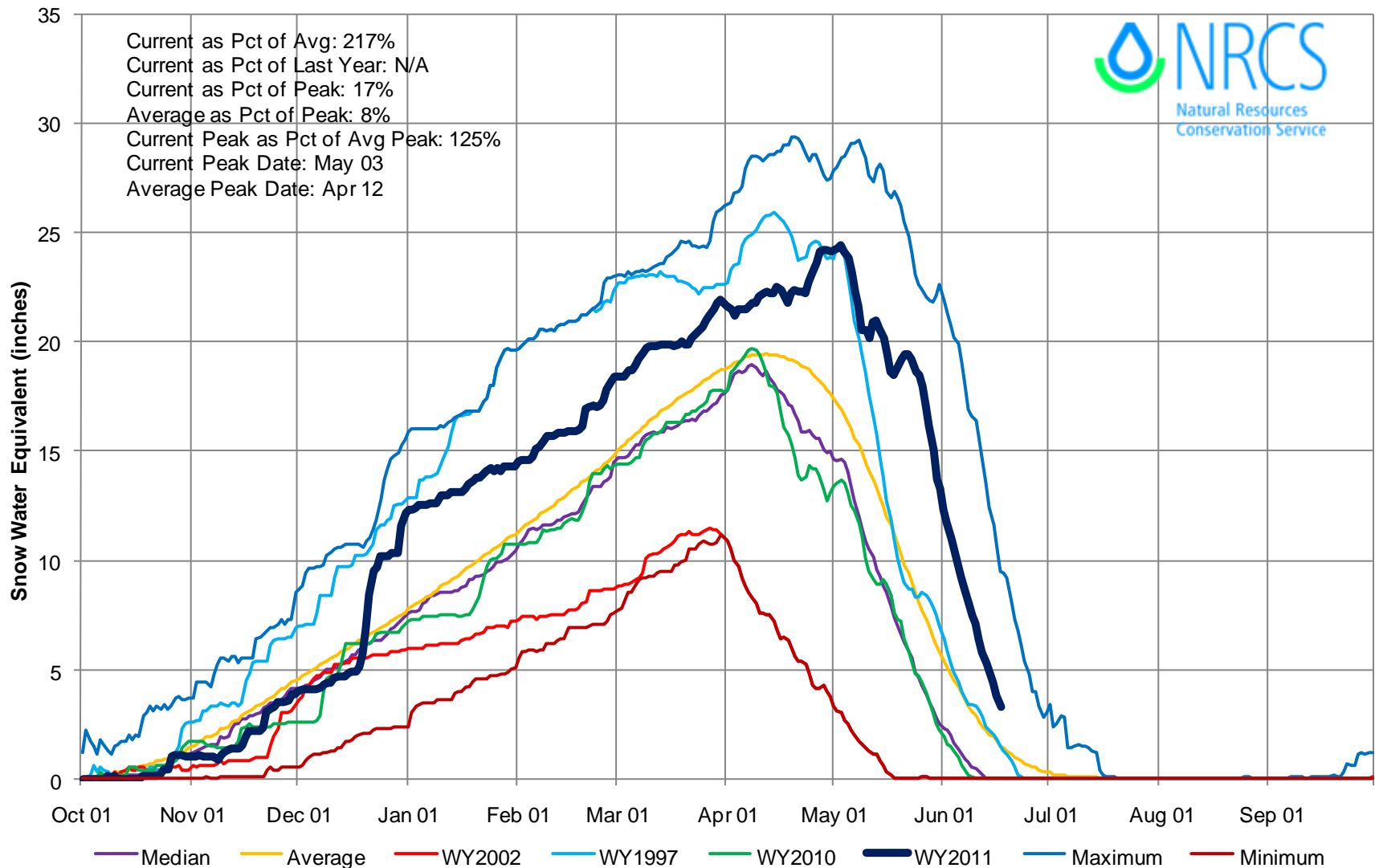
## June 1 Total Gunnison River Basin Snowpack





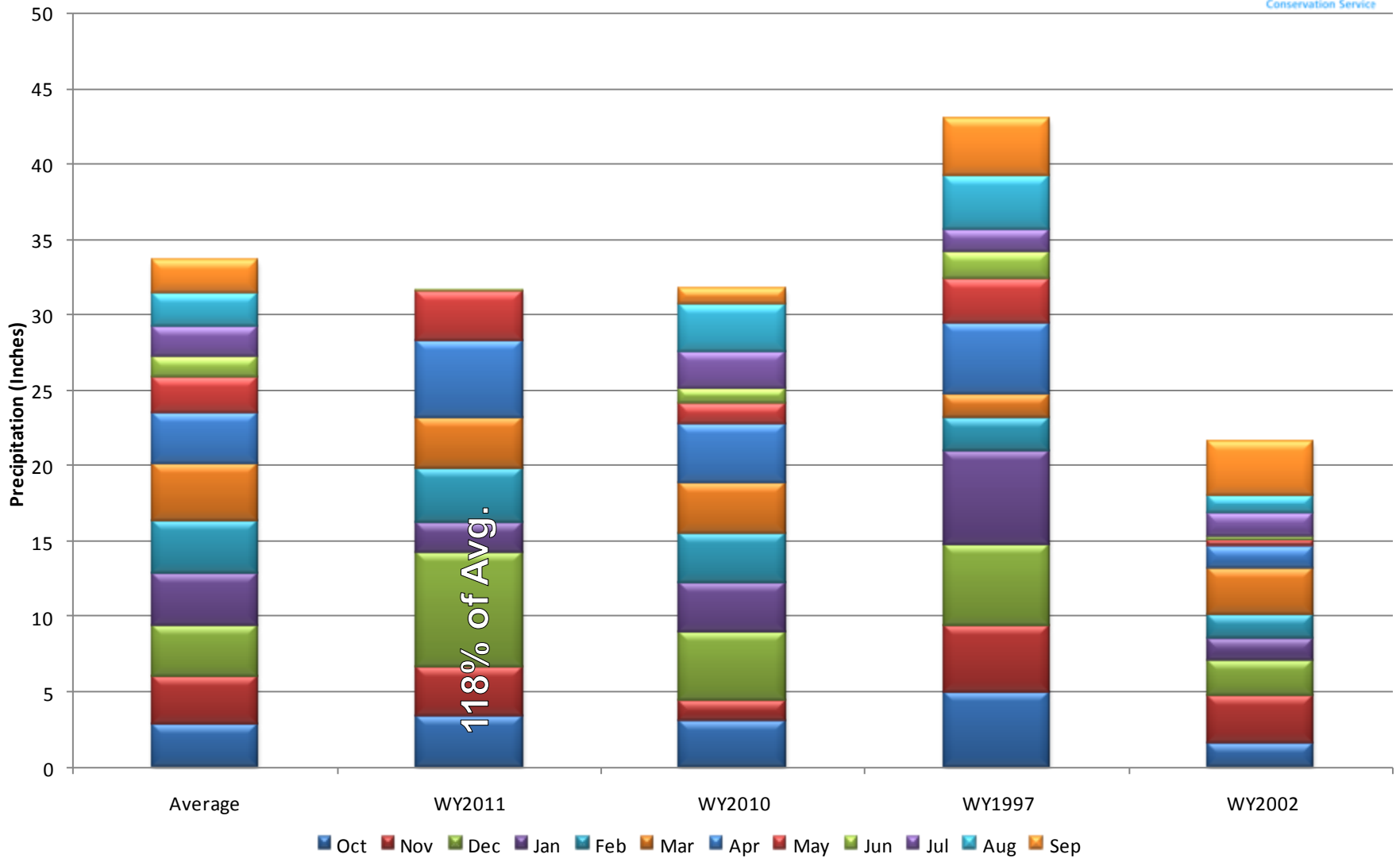
## Gunnison River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jun 17, 2011*



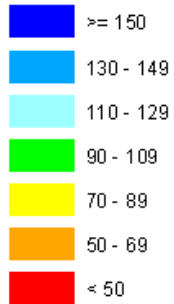
## Gunnison River Basin High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jun 17, 2011*

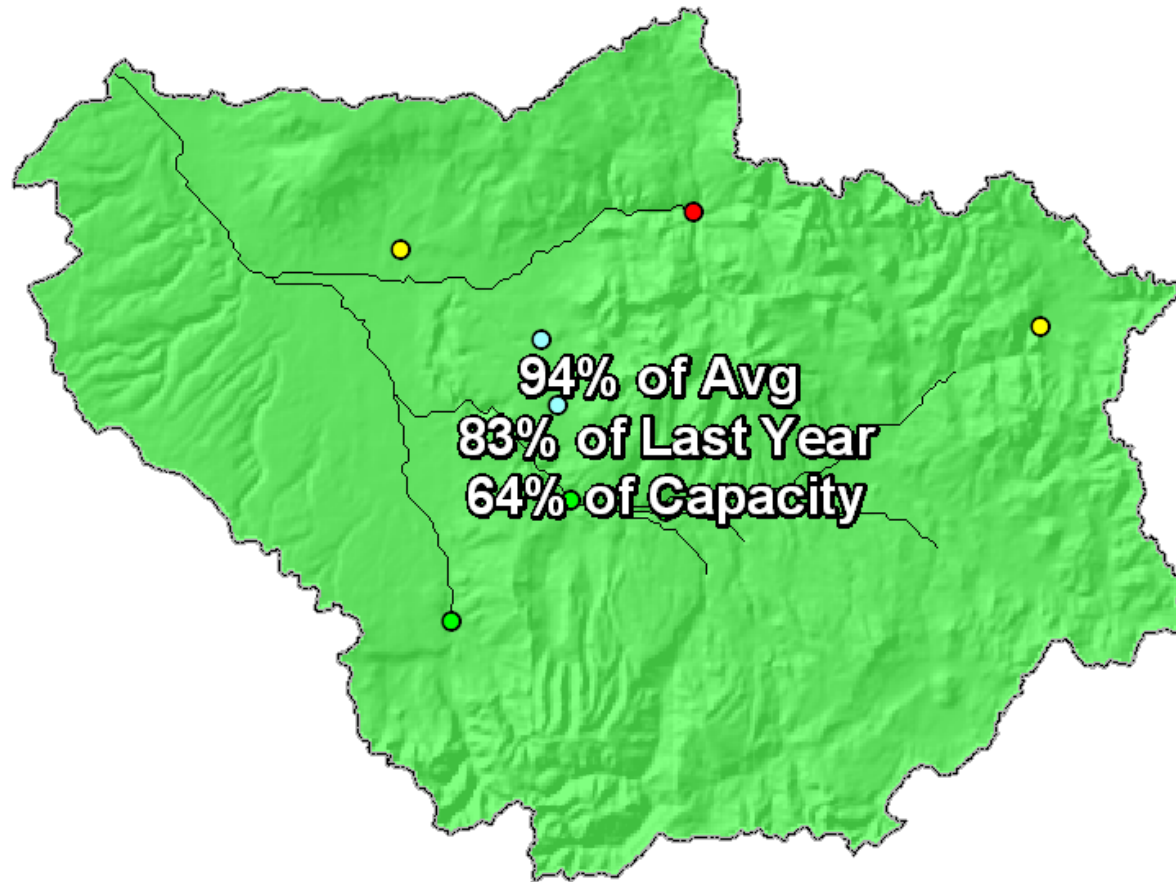


# Gunnison River Basin Reservoir Storage Map

## Percent of Average

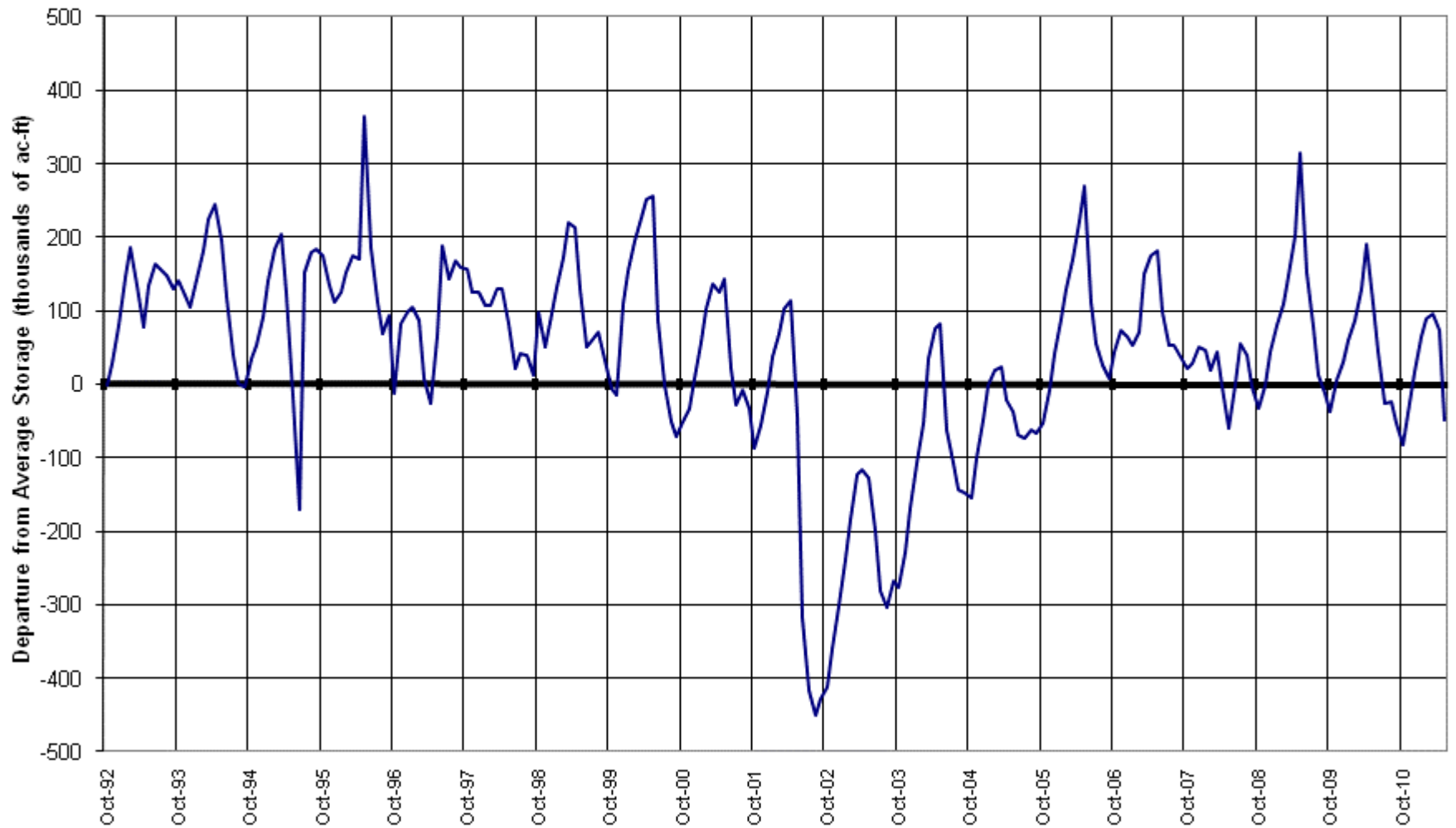


*Provisional Data  
Subject to Revision*



End of May 2011

**GUNNISON RIVER BASIN**  
**Reservoir Storage**  
**Departure from Average**



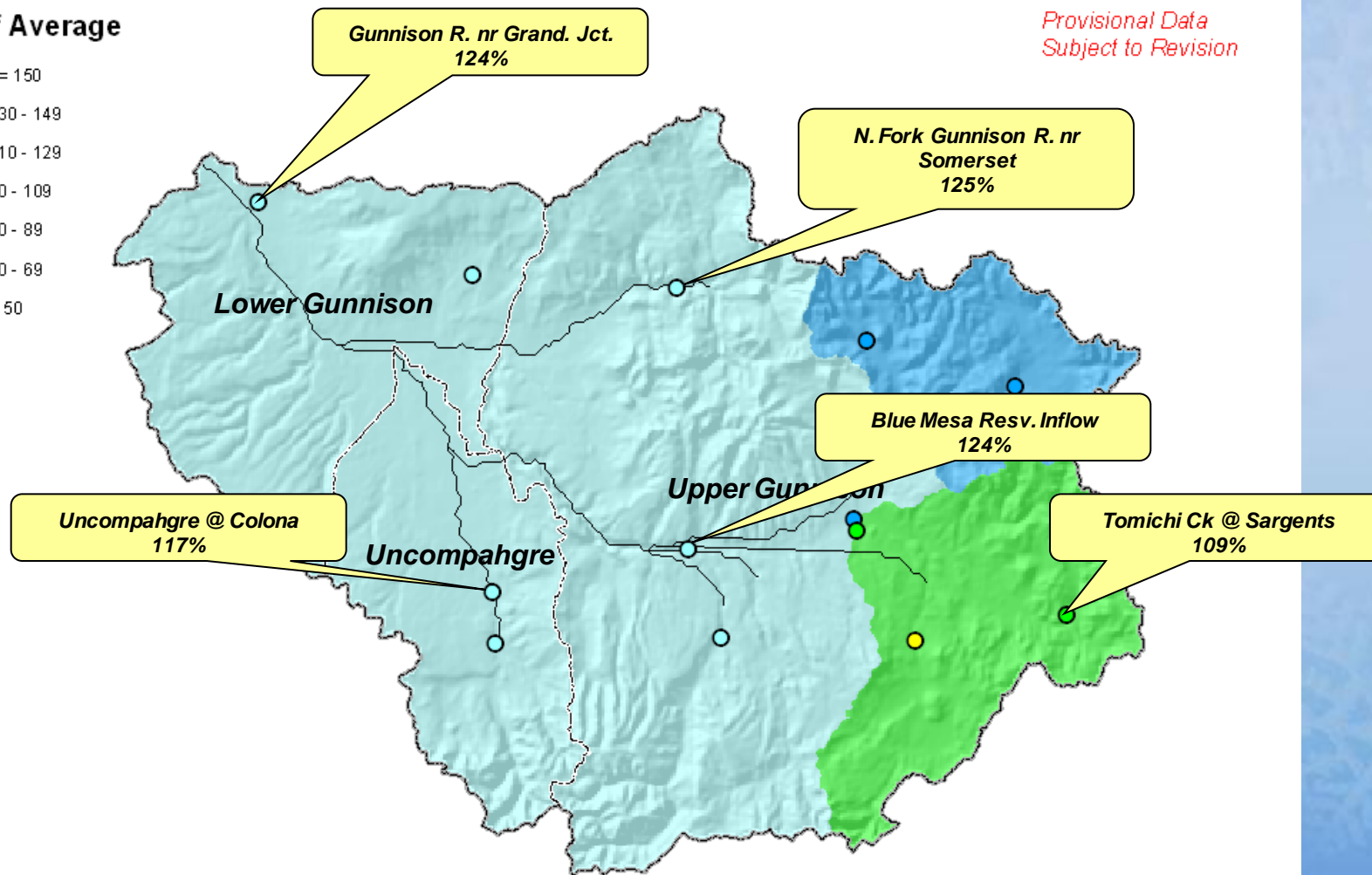


# Gunnison River Basin Streamflow Forecast Map

Percent of Average

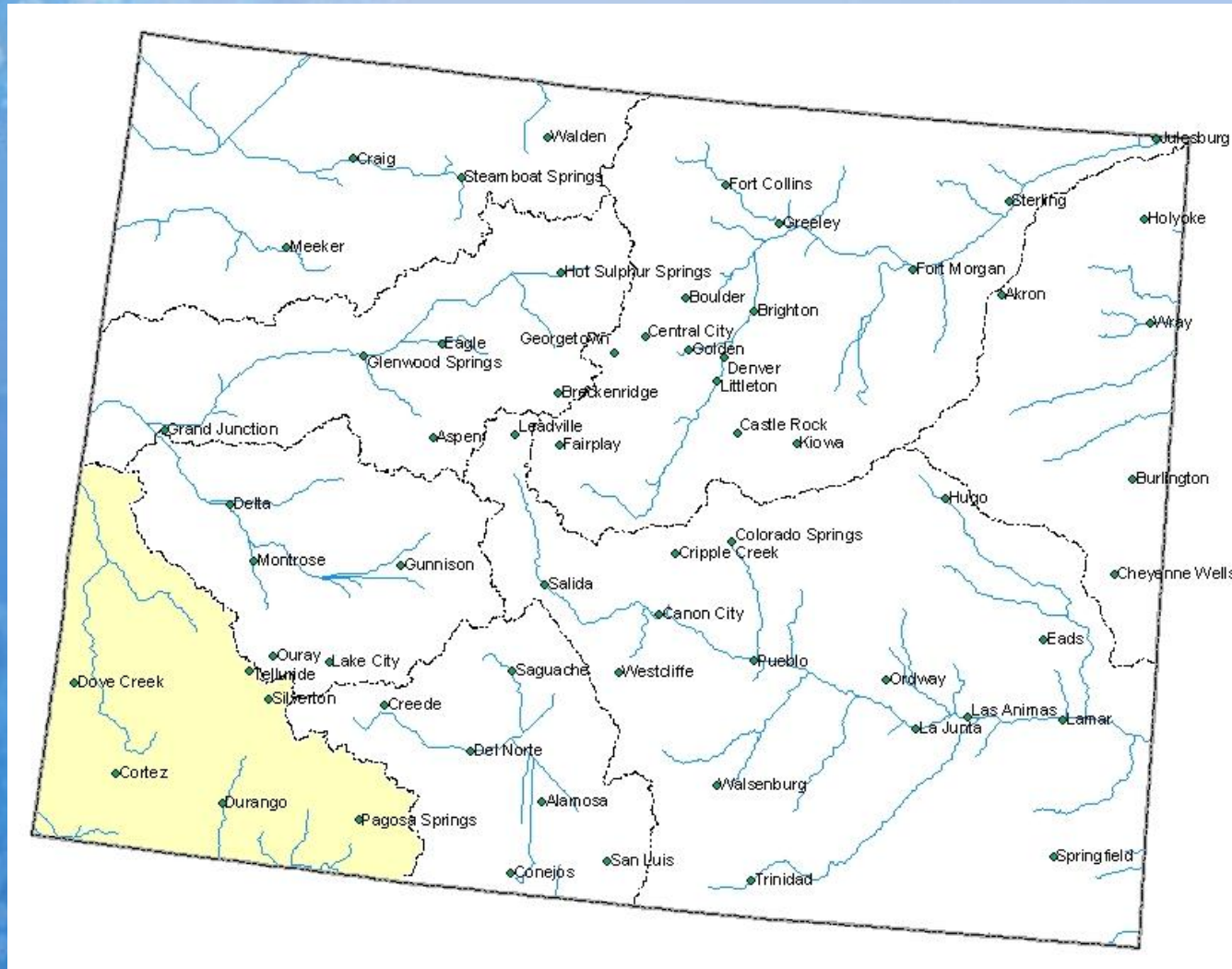


*Provisional Data  
Subject to Revision*



Current as of June 1, 2011

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

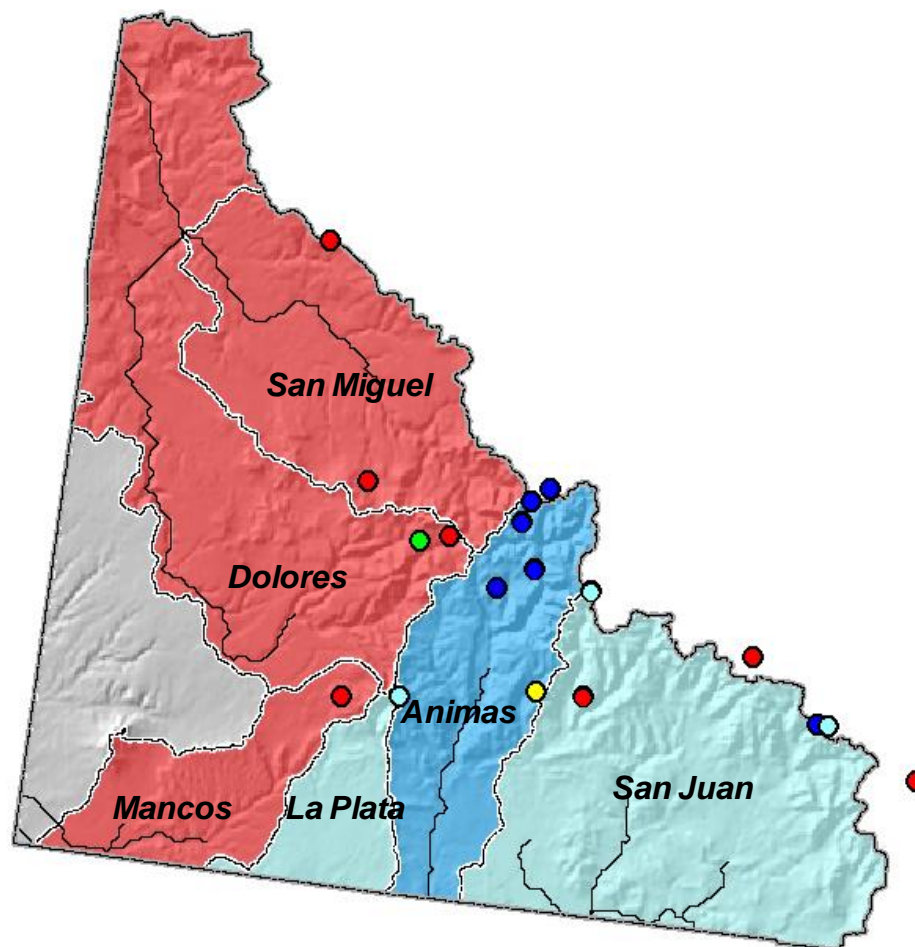


# San Miguel, Dolores, Animas and San Juan River Basins Snowpack Map

Percent of Average

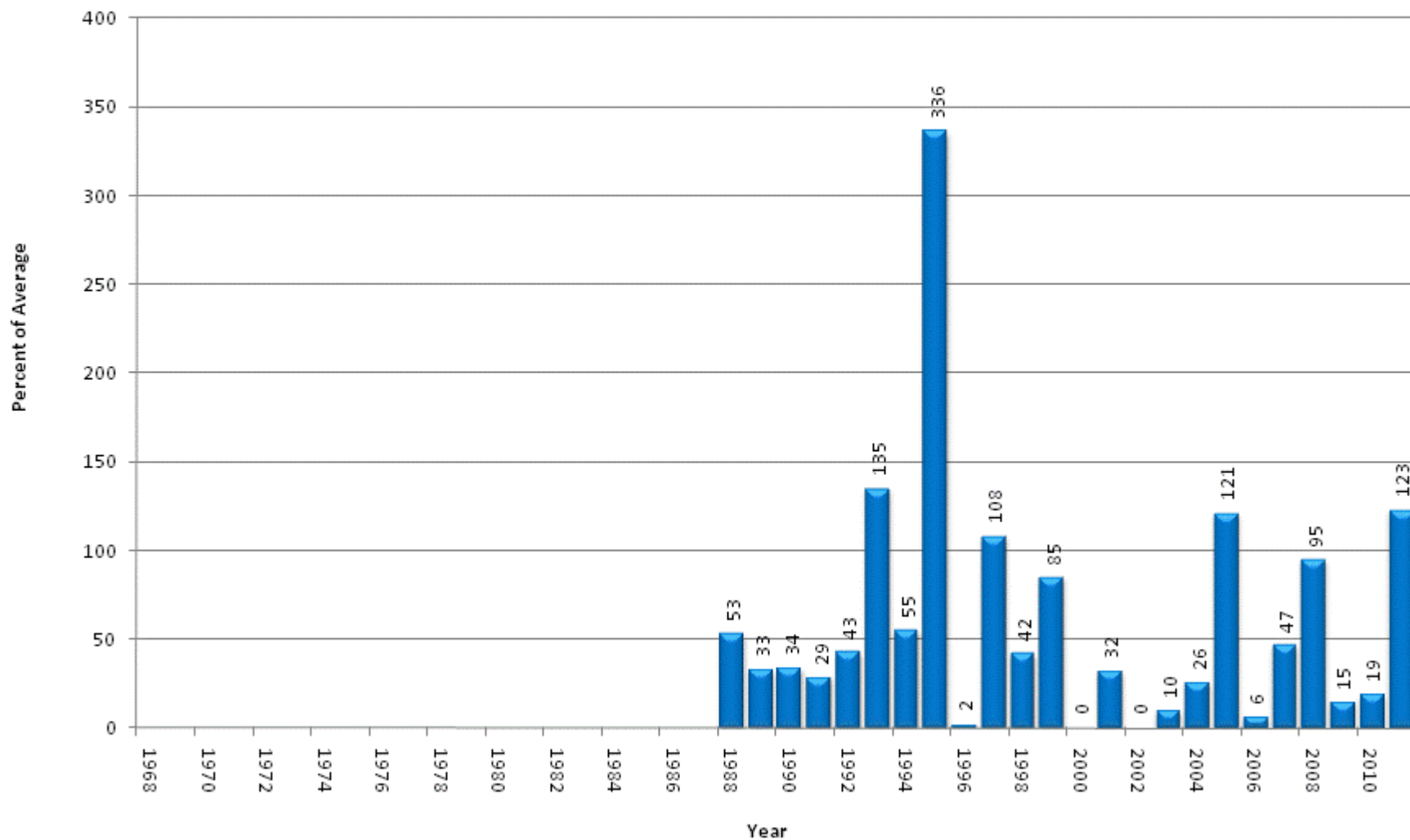


*Provisional Data  
Subject to Revision*



Current as of June 1, 2011

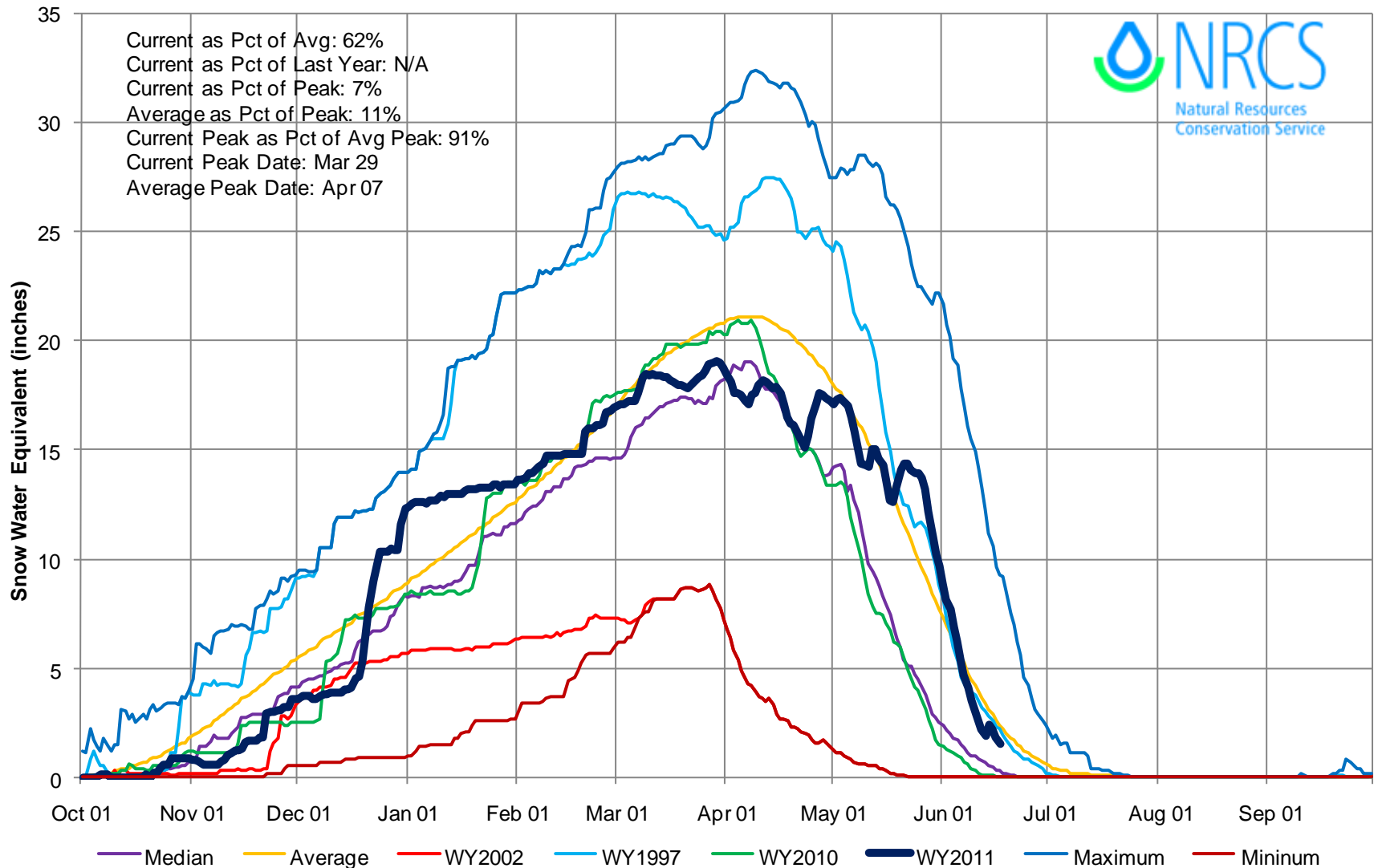
## June 1 Total San Miguel, Dolores, Animas & San Juan River Basins Snowpack





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

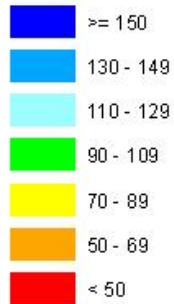
*Based on Provisional SNOTEL data as of Jun 17, 2011*



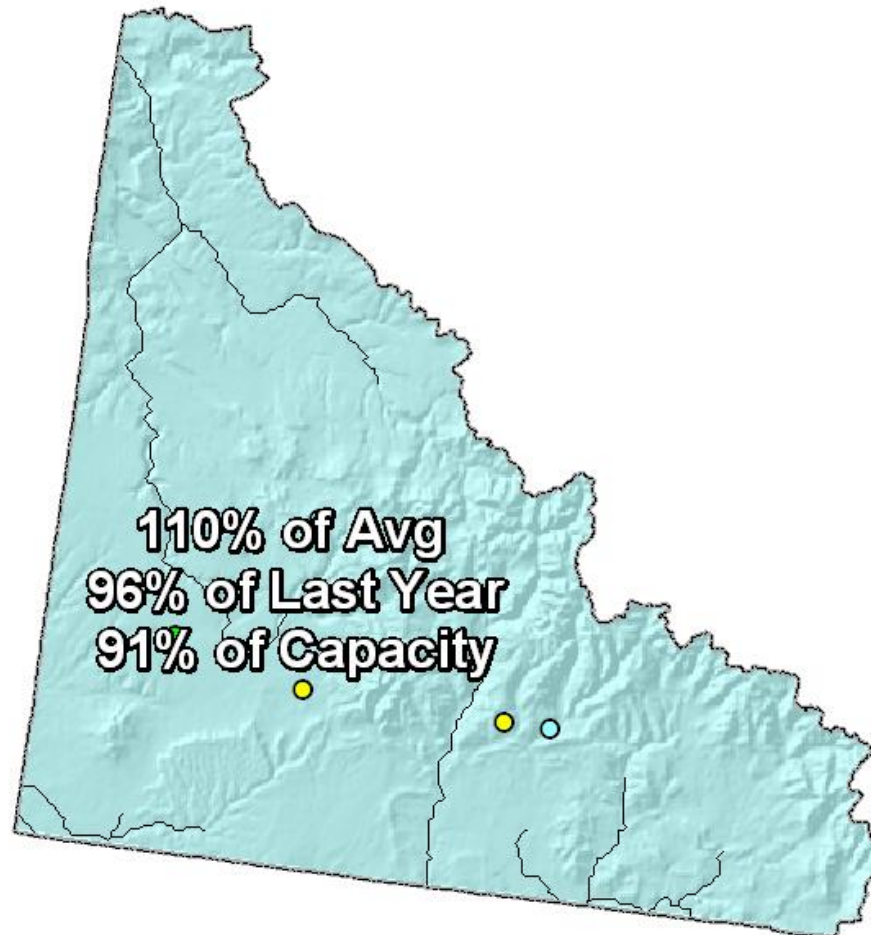


# San Miguel, Dolores, Animas and San Juan River Basins Reservoir Storage Map

Percent of Average

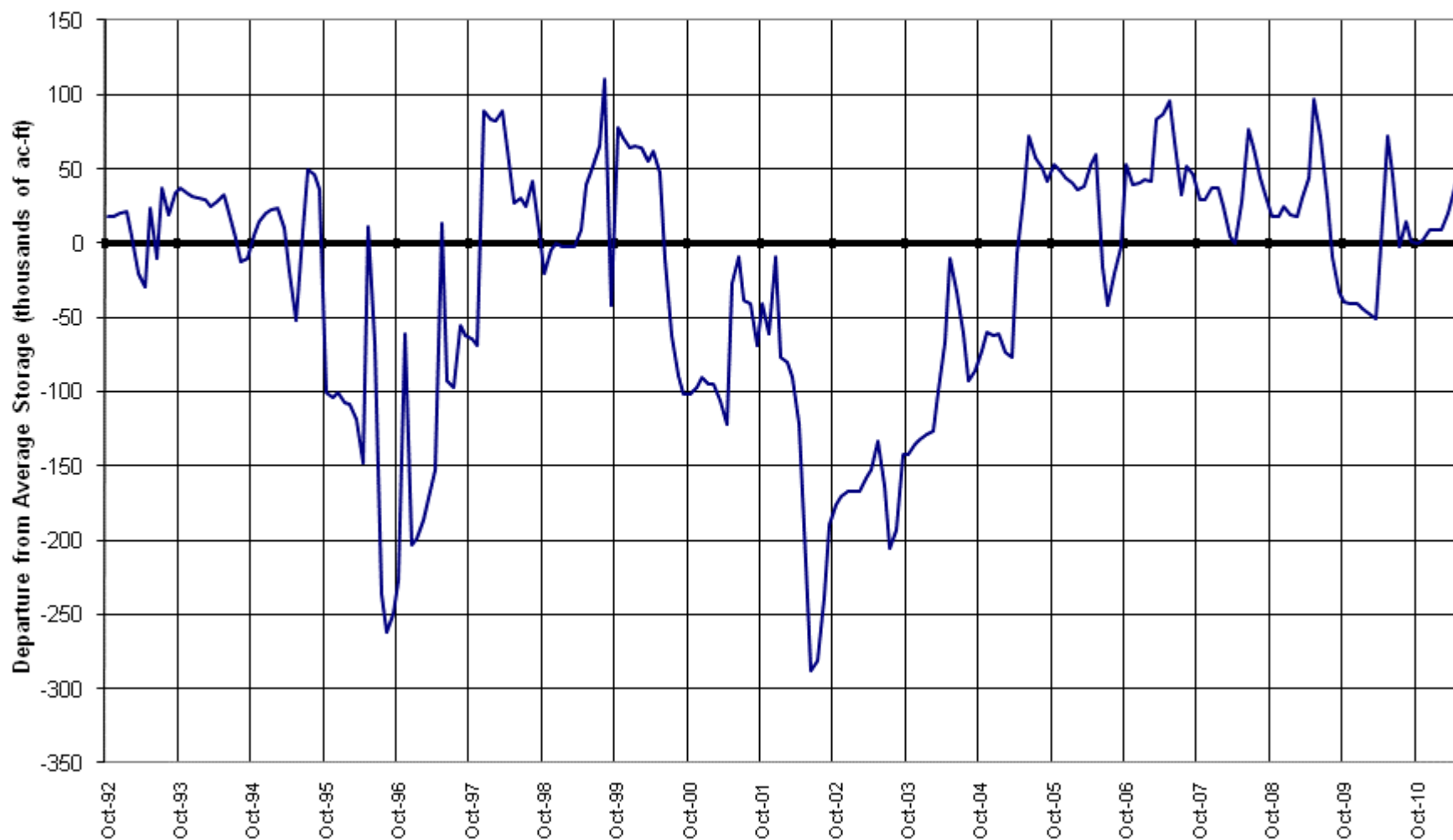


*Provisional Data  
Subject to Revision*



End of May 2011

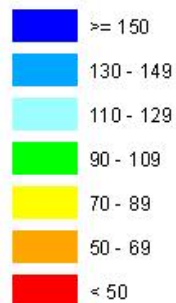
**SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS**  
**Reservoir Storage**  
**Departure from Average**



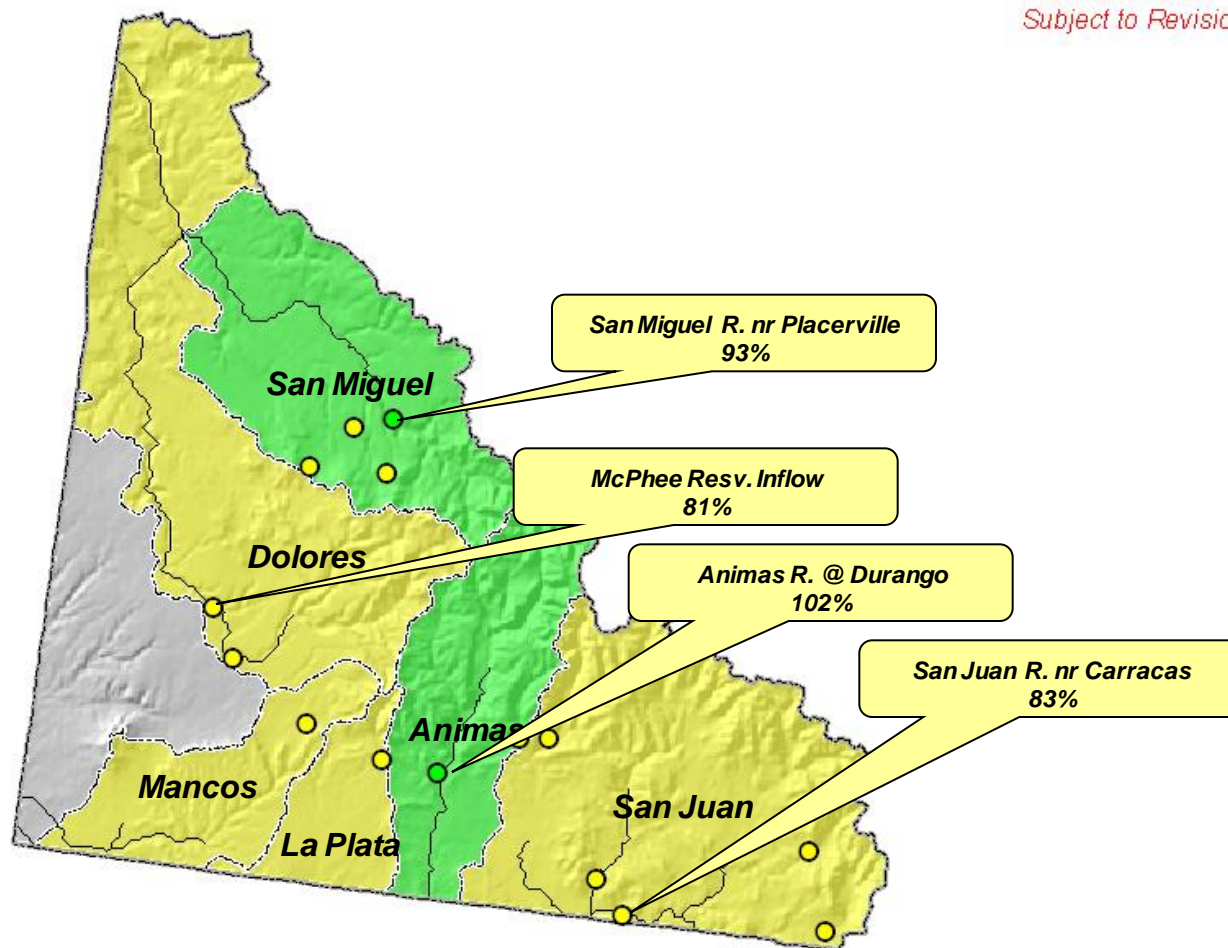


# San Miguel, Dolores, Animas and San Juan River Basins Streamflow Forecast Map

Percent of Average

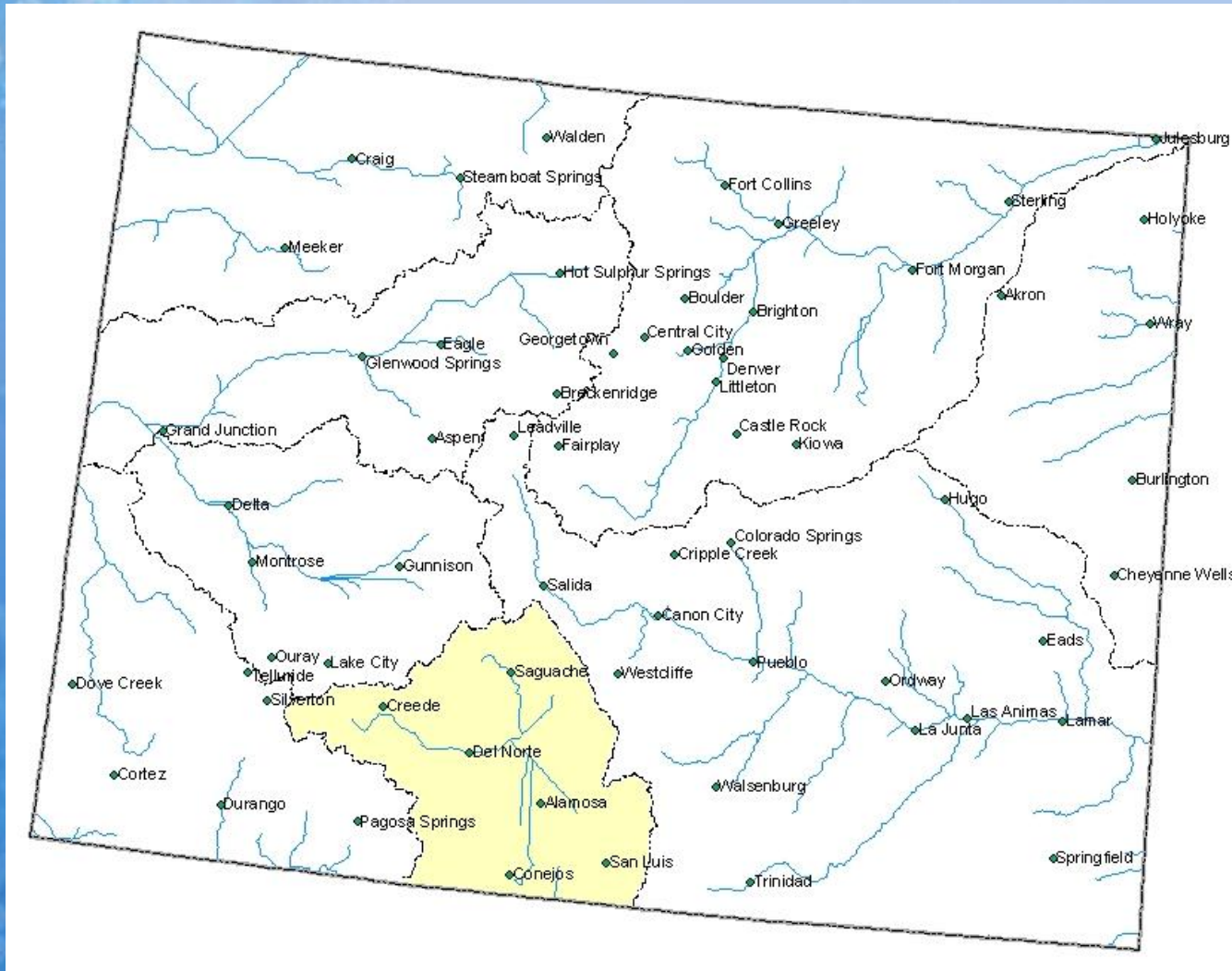


*Provisional Data  
Subject to Revision*



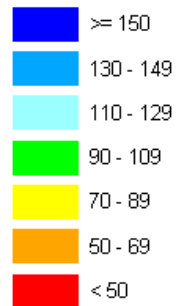
Current as of June 1, 2011

# Upper Rio Grande Basin Summary

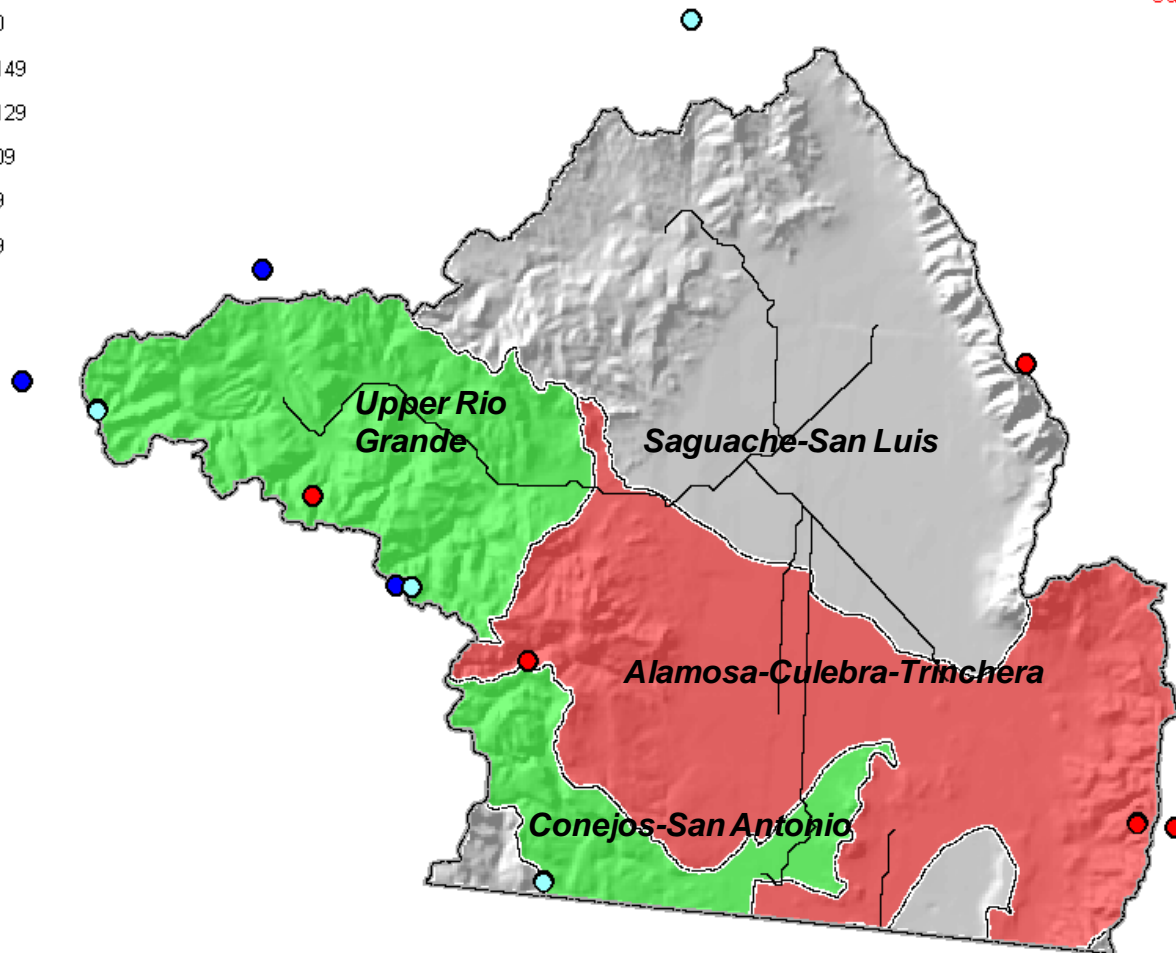


# Upper Rio Grande Basin Snowpack Map

## Percent of Average

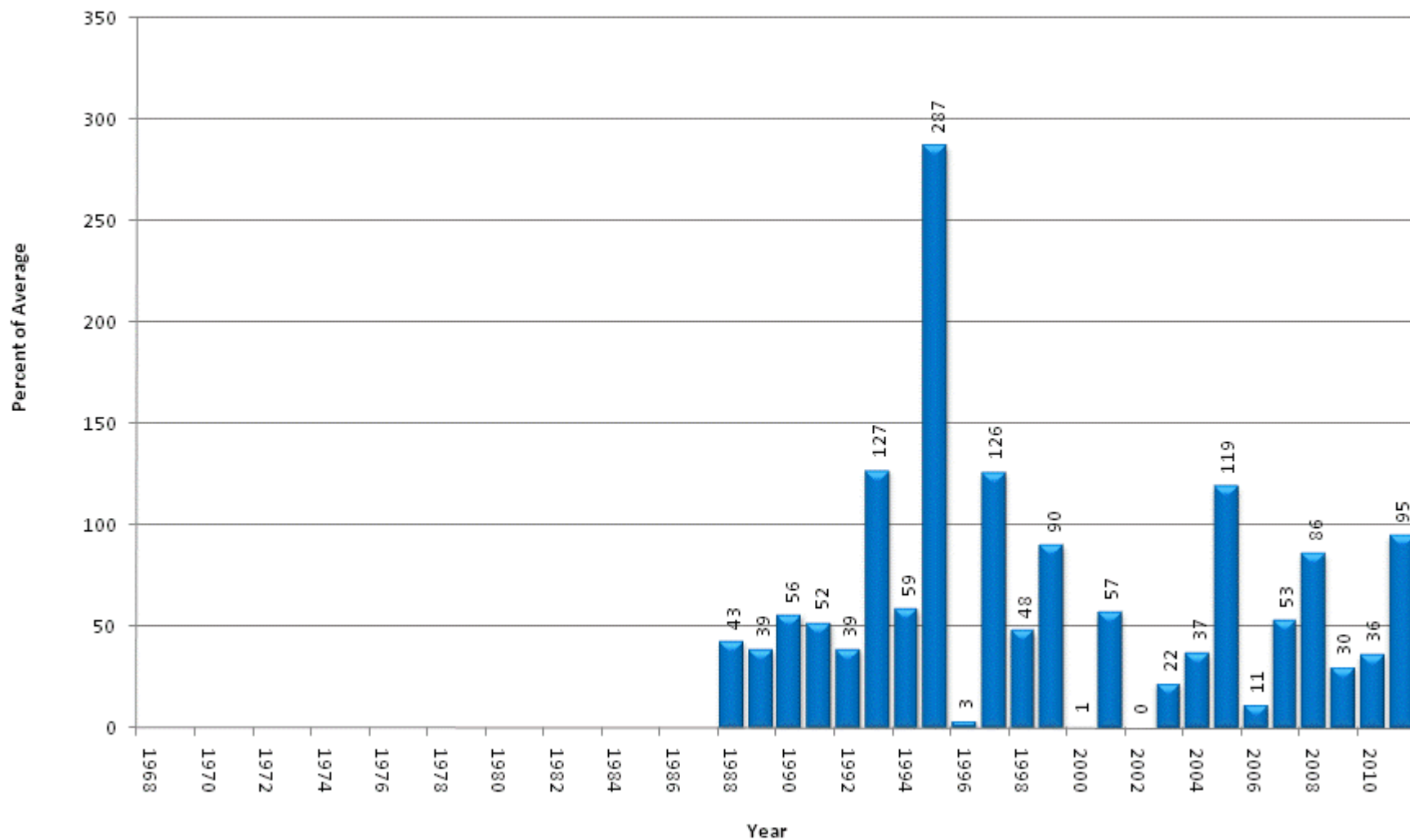


*Provisional Data  
Subject to Revision*



Current as of June 1, 2011

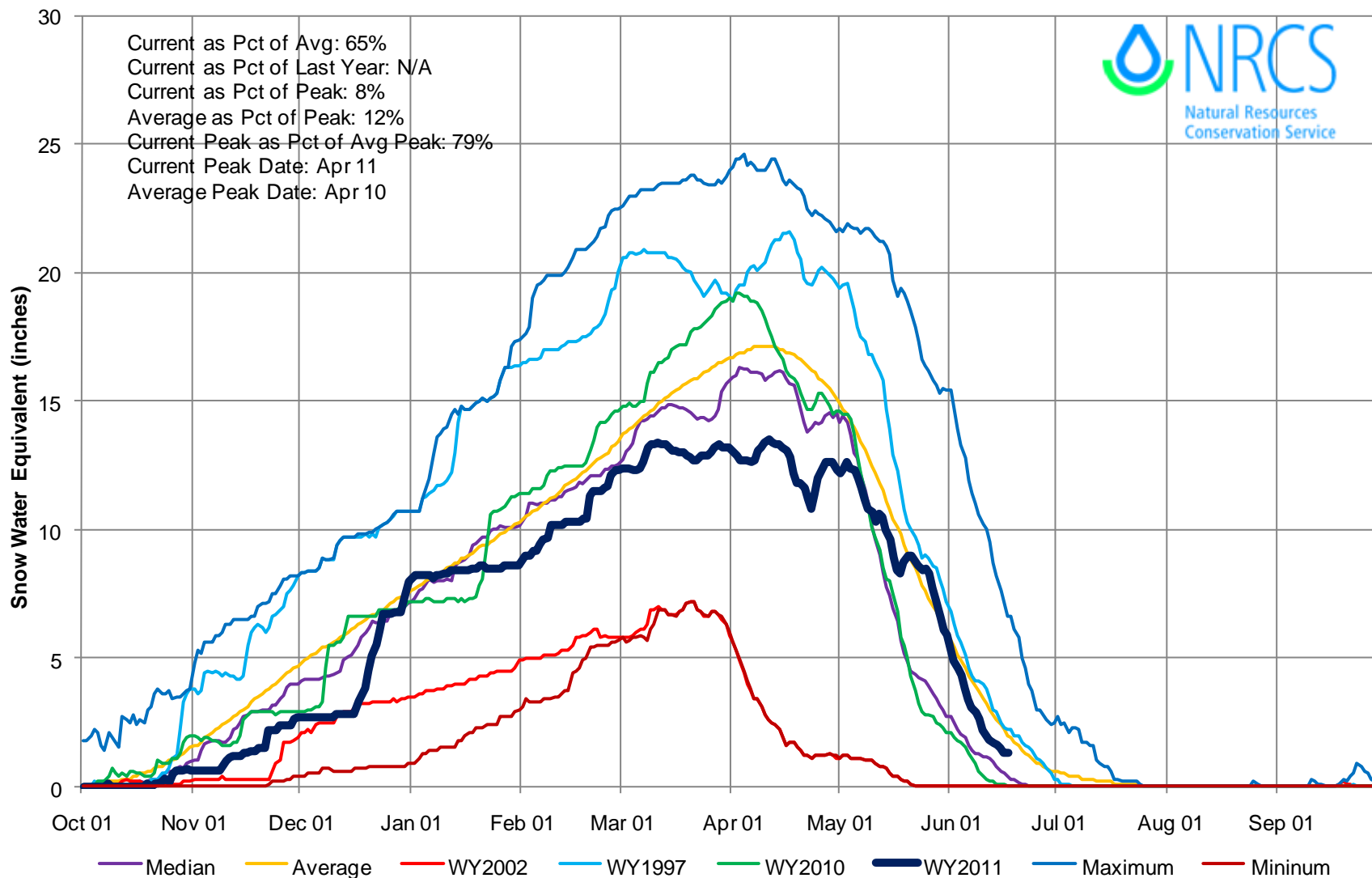
## June 1 Total Upper Rio Grande Basin Snowpack





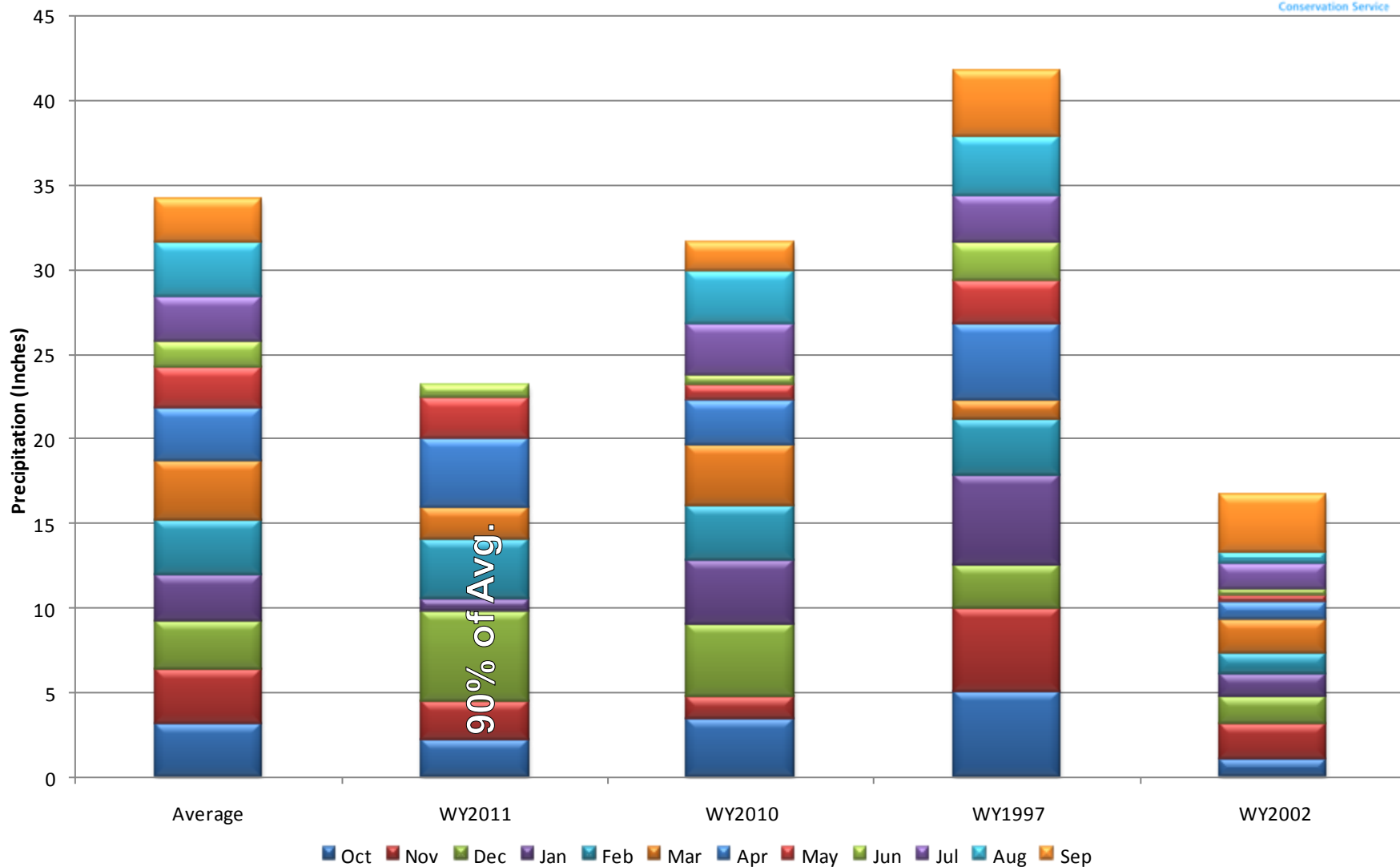
## Upper Rio Grande Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jun 17, 2011*



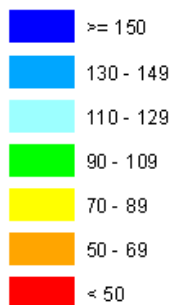
# Upper Rio Grande Basin High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jun 17, 2011*

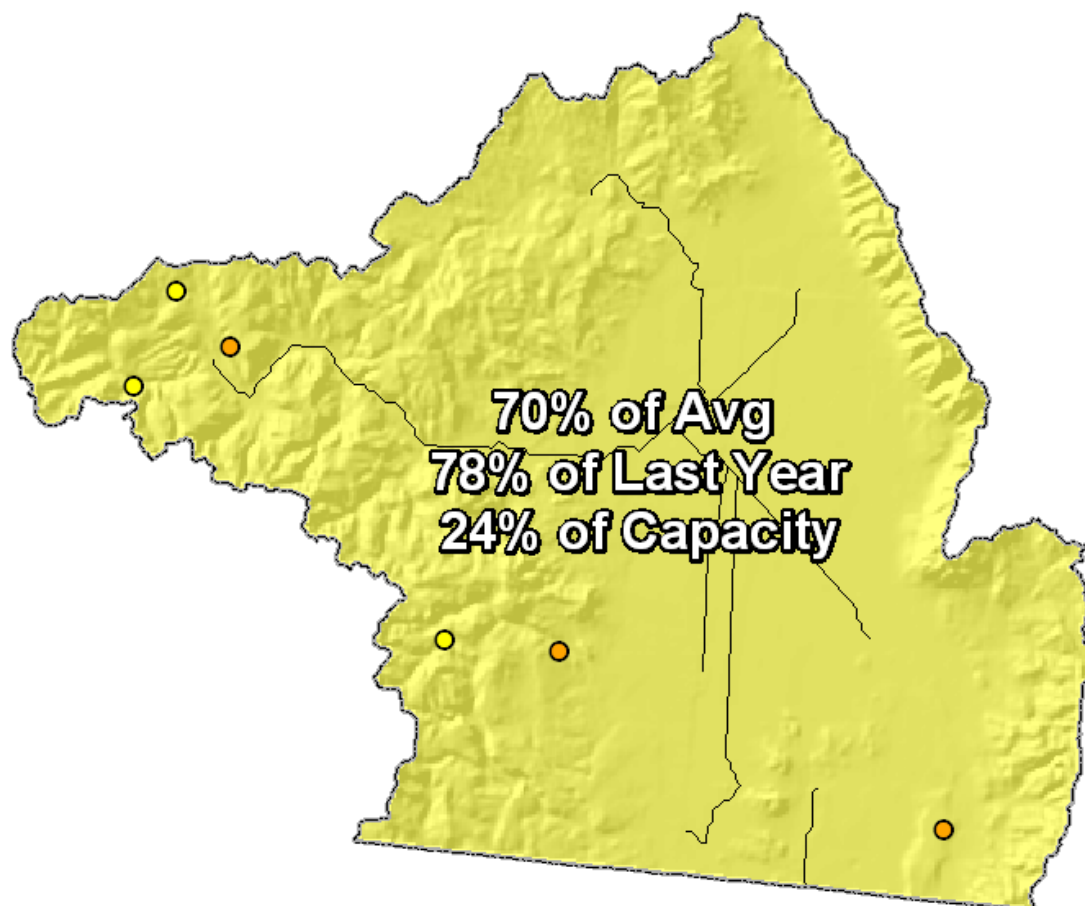


# Upper Rio Grande Basin Reservoir Storage Map

## Percent of Average

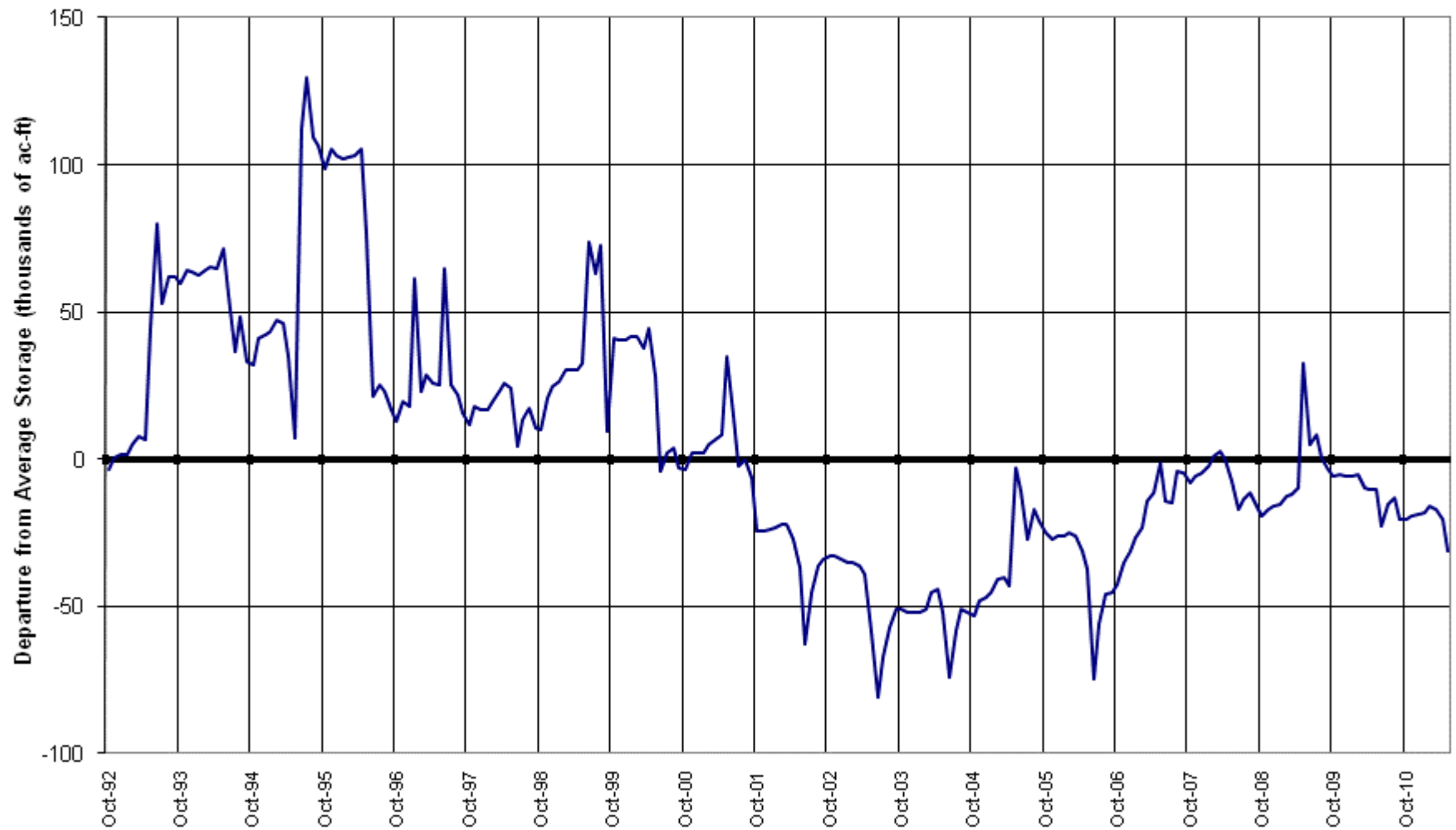


*Provisional Data  
Subject to Revision*



End of May 2011

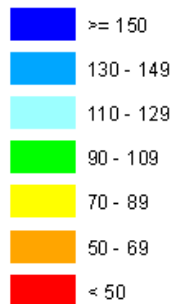
UPPER RIO GRANDE BASIN  
Reservoir Storage  
Departure from Average



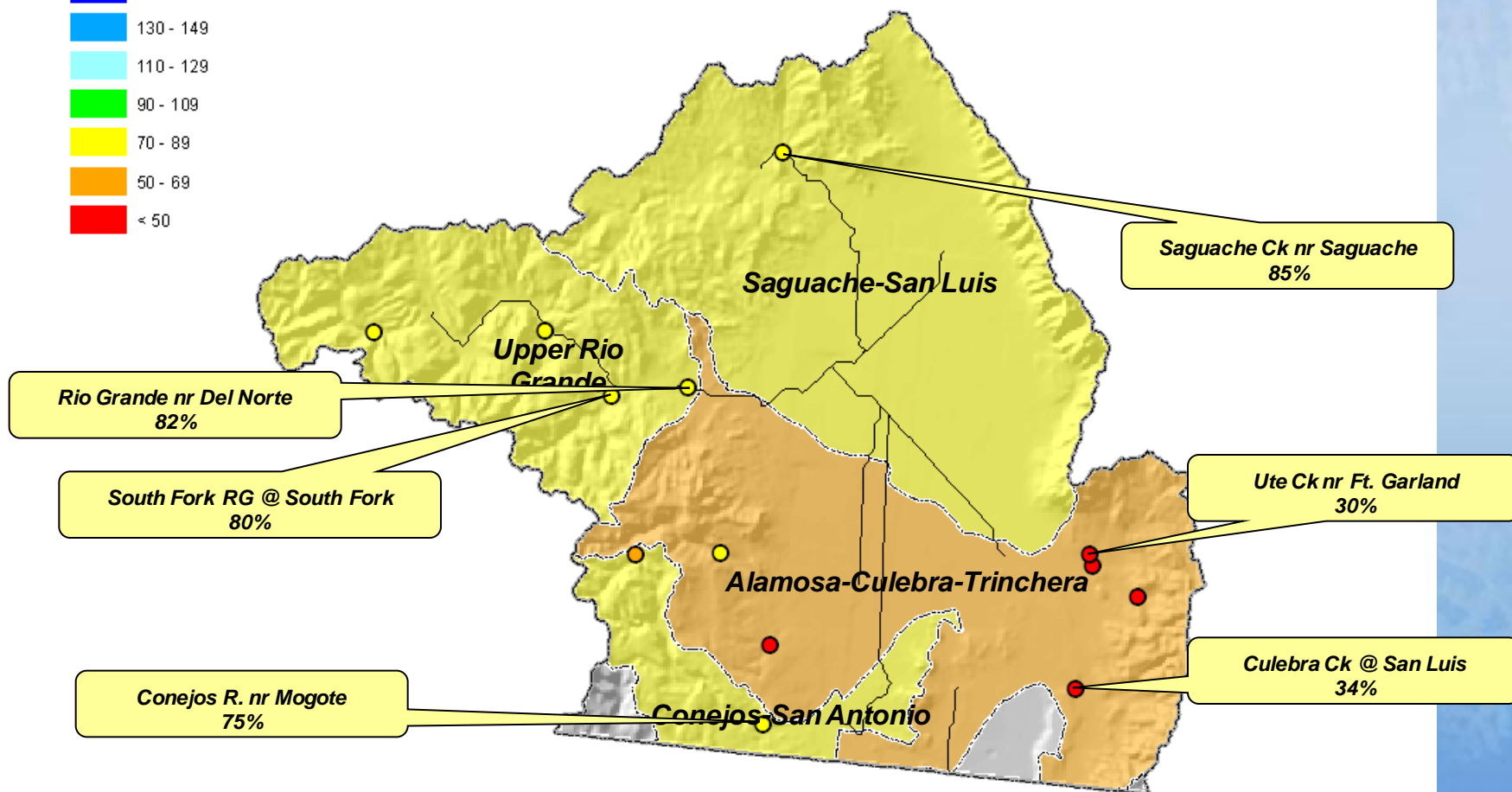


# Upper Rio Grande Basin Streamflow Forecast Map

## Percent of Average

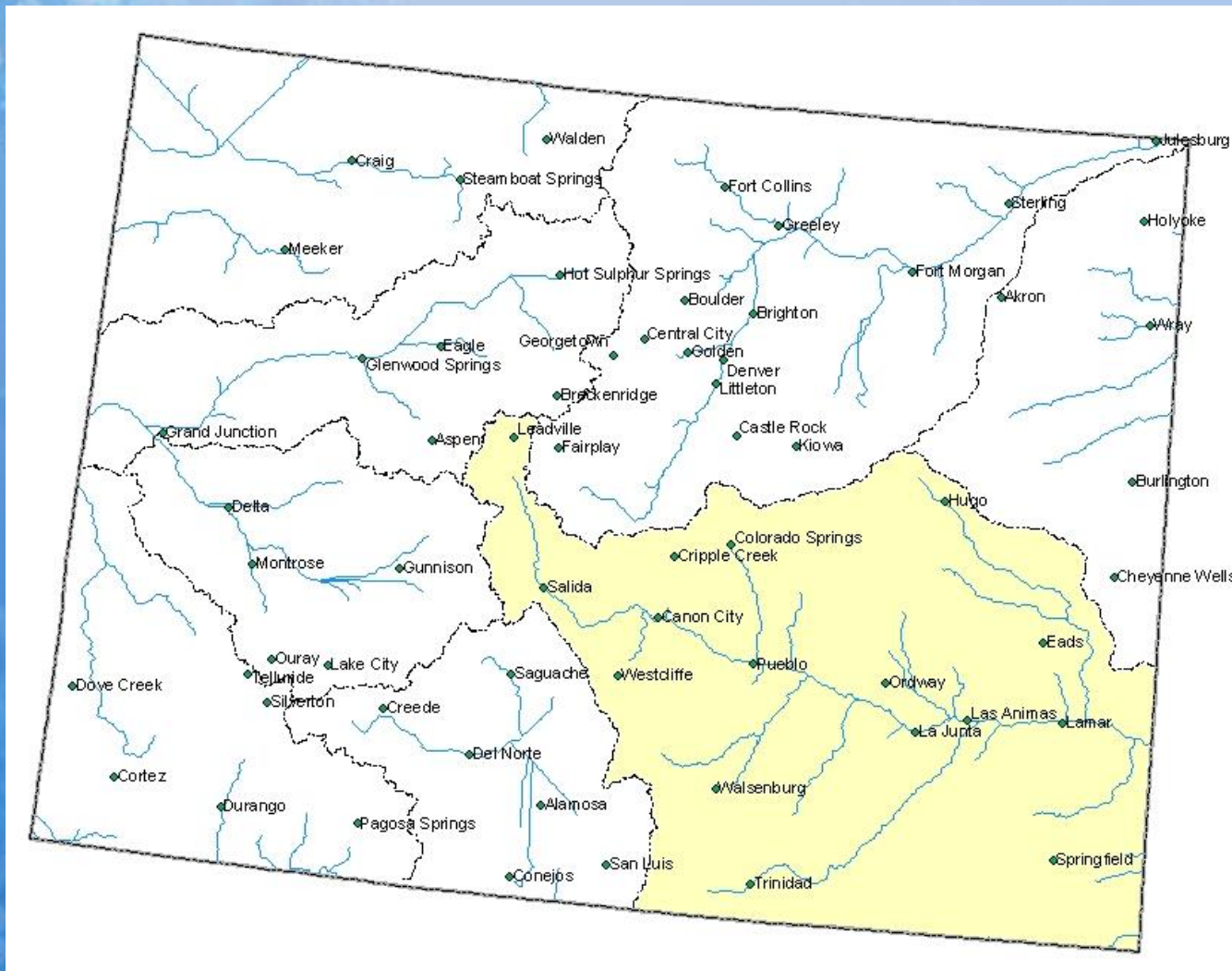


*Provisional Data  
Subject to Revision*



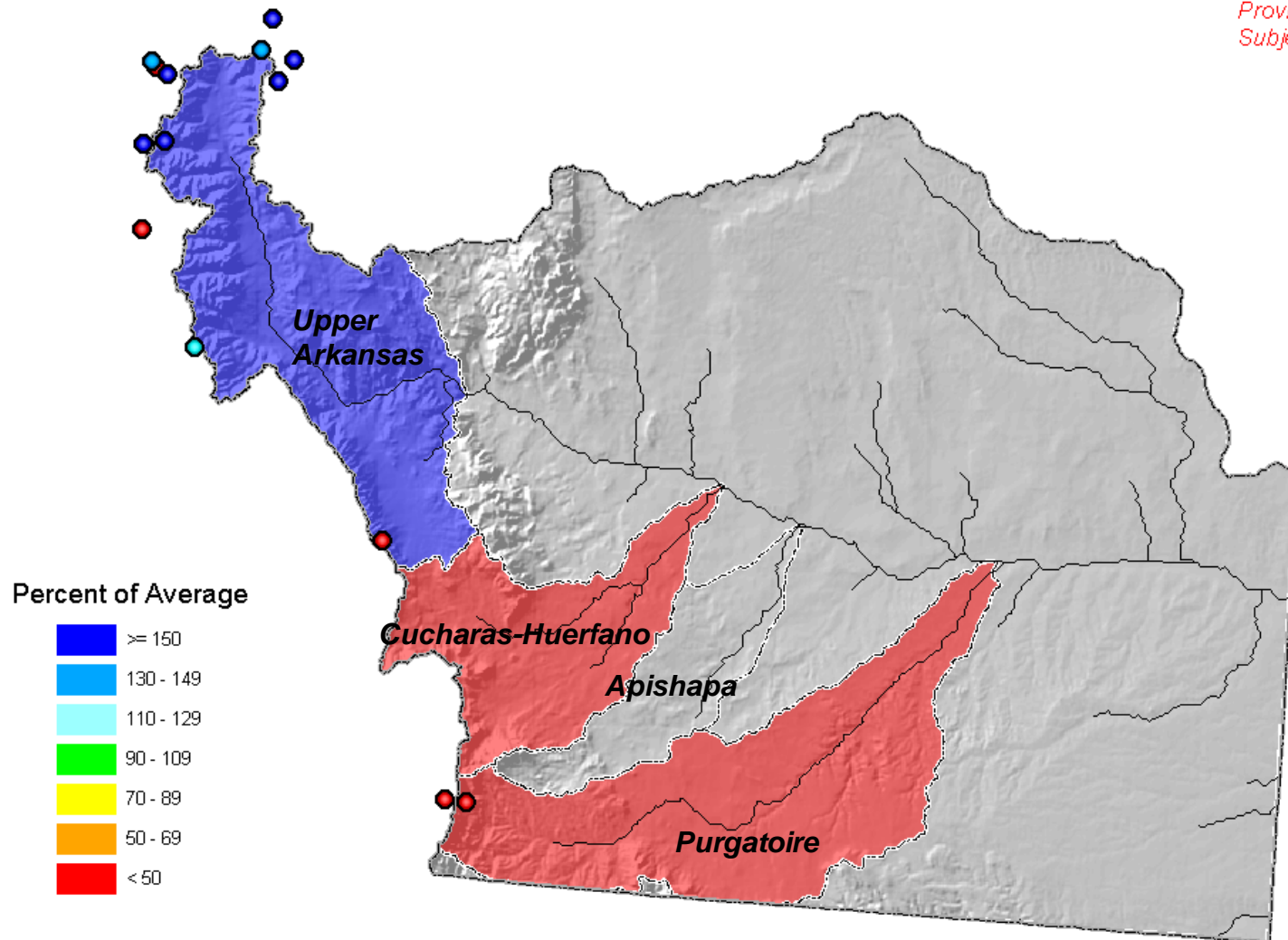
Current as of June 1, 2011

# Arkansas River Basin Summary



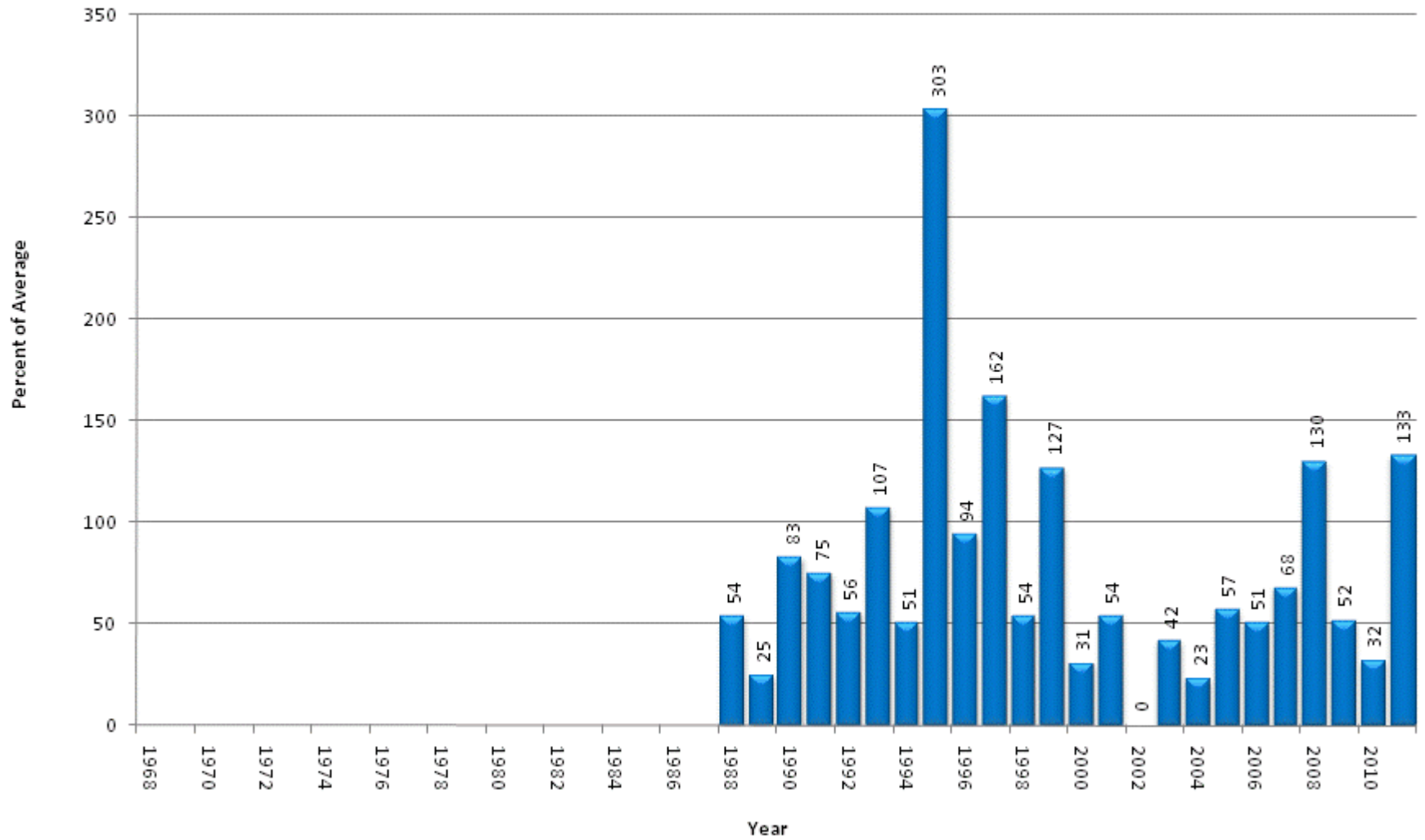
# Arkansas River Basin Snowpack Map

*Provisional Data  
Subject to Revision*



Current as of June 1, 2011

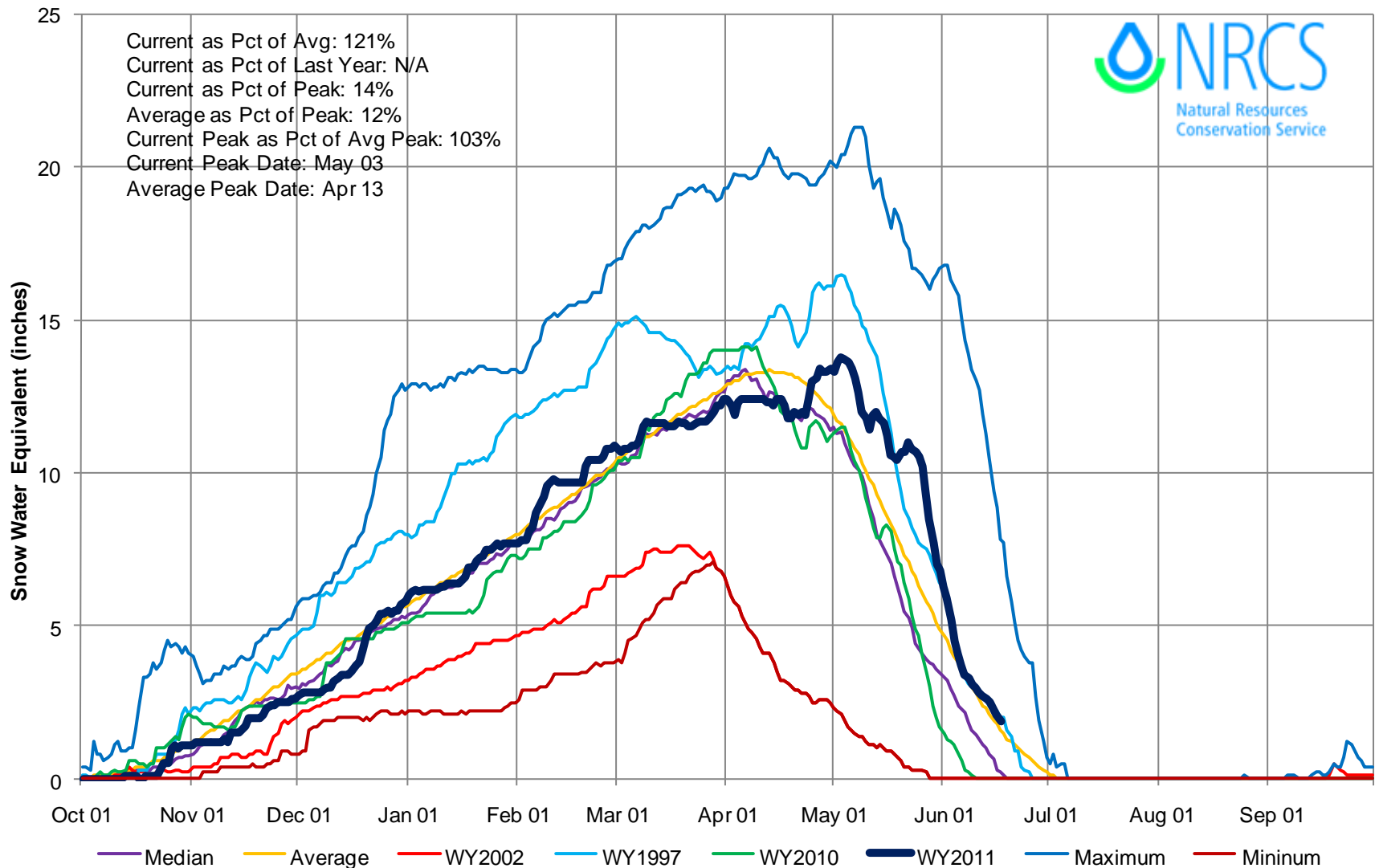
## June 1 Total Arkansas River Basin Snowpack





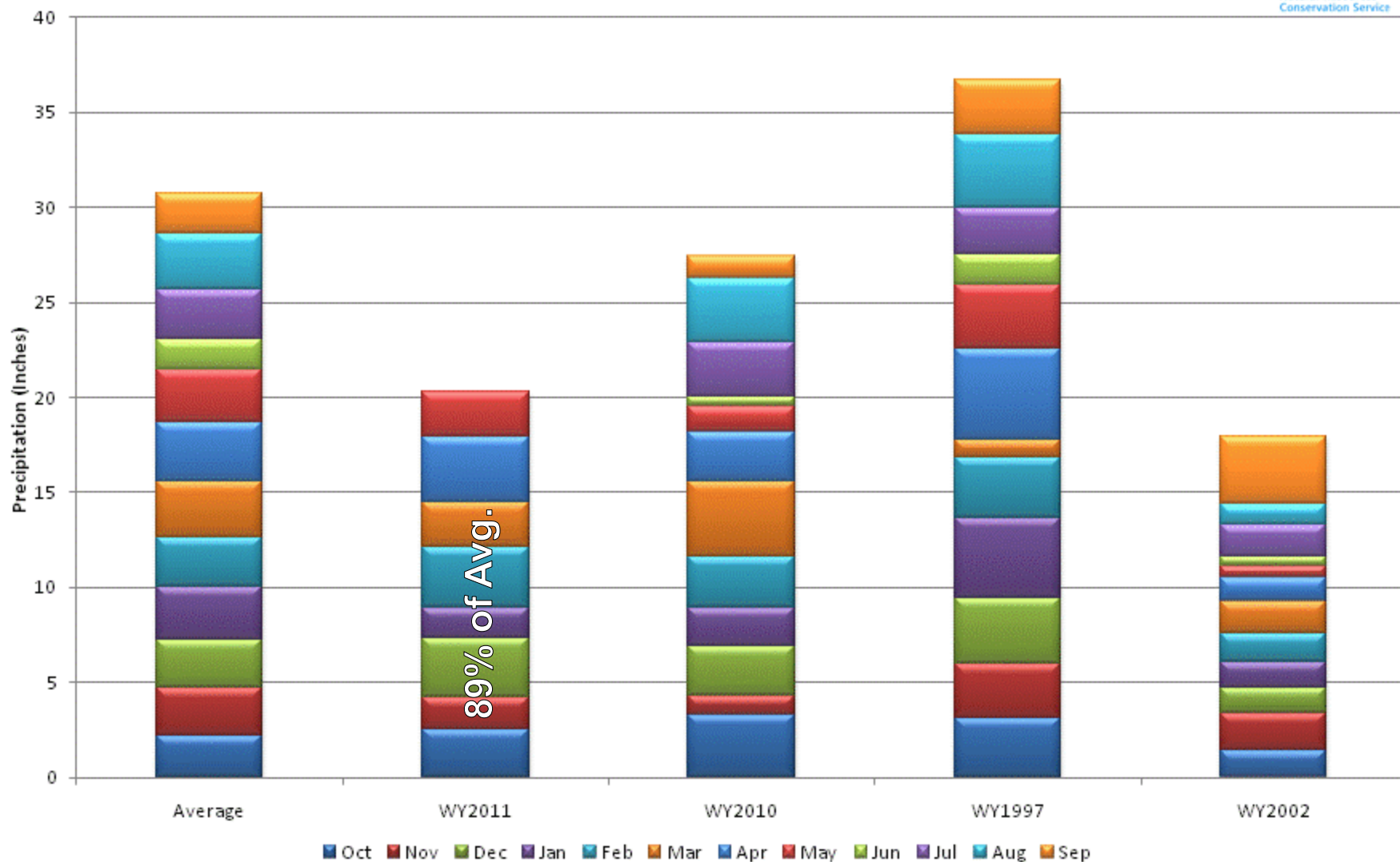
## Arkansas River Basin High/Low Snowpack Summary

*Based on Provisional SNOTEL data as of Jun 17, 2011*



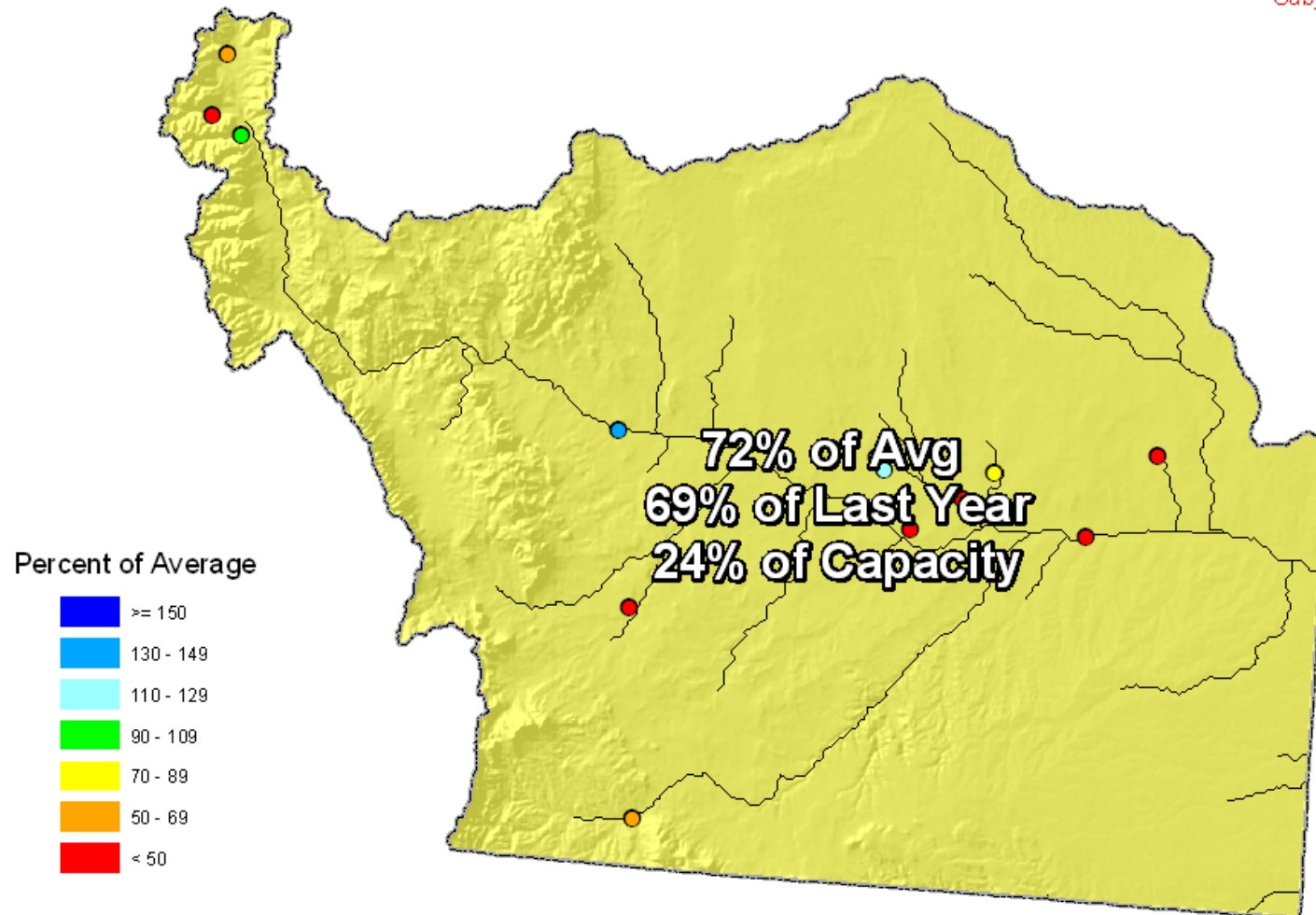
## Arkansas River Basin High/Low Monthly Precipitation Summary

*Based on Provisional SNOTEL data as of Jun 17, 2011*



# Arkansas River Basin Reservoir Storage Map

*Provisional Data  
Subject to Revision*



End of May 2011

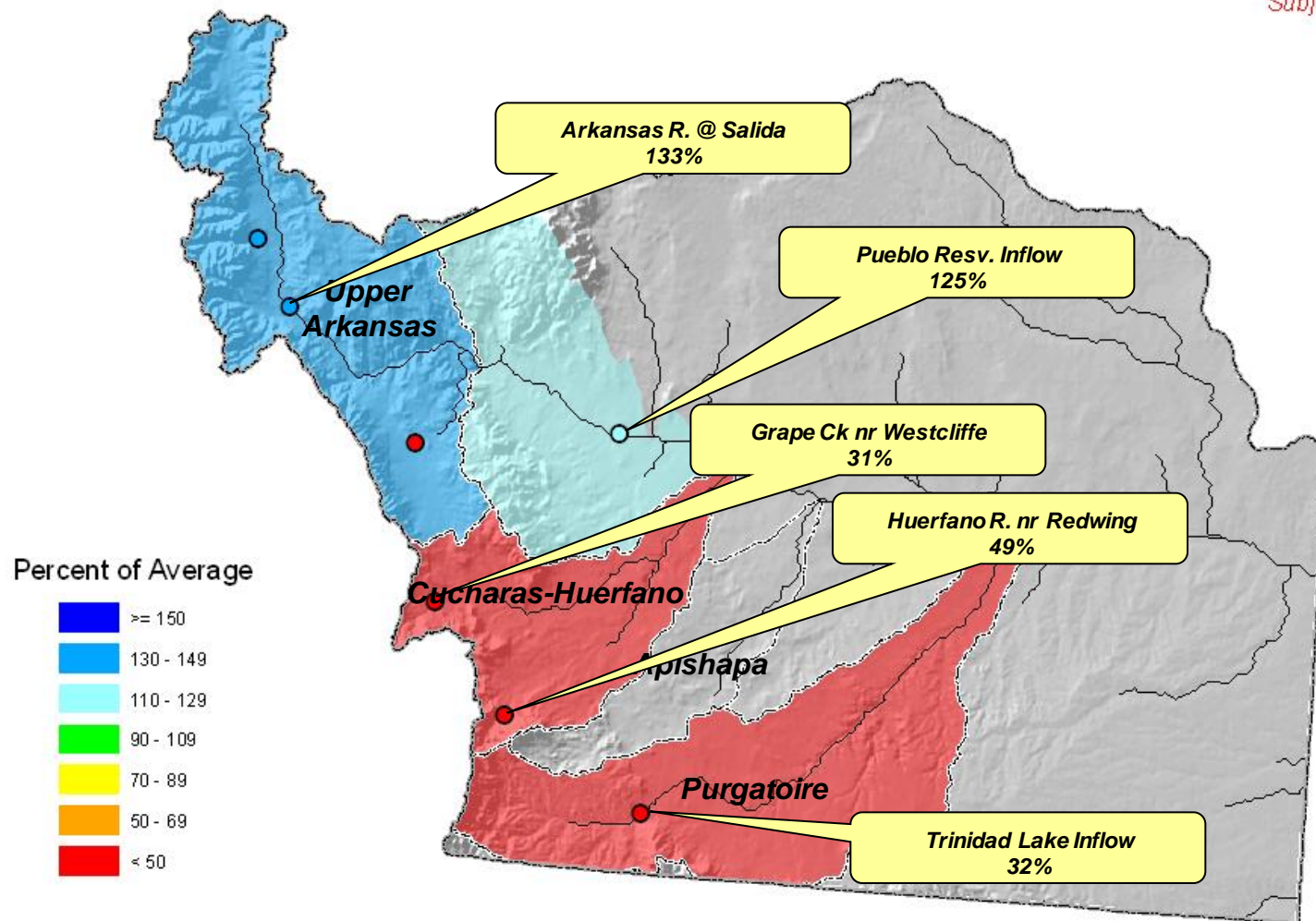
**ARKANSAS RIVER BASIN**  
**Reservoir Storage**  
**Departure from Average**





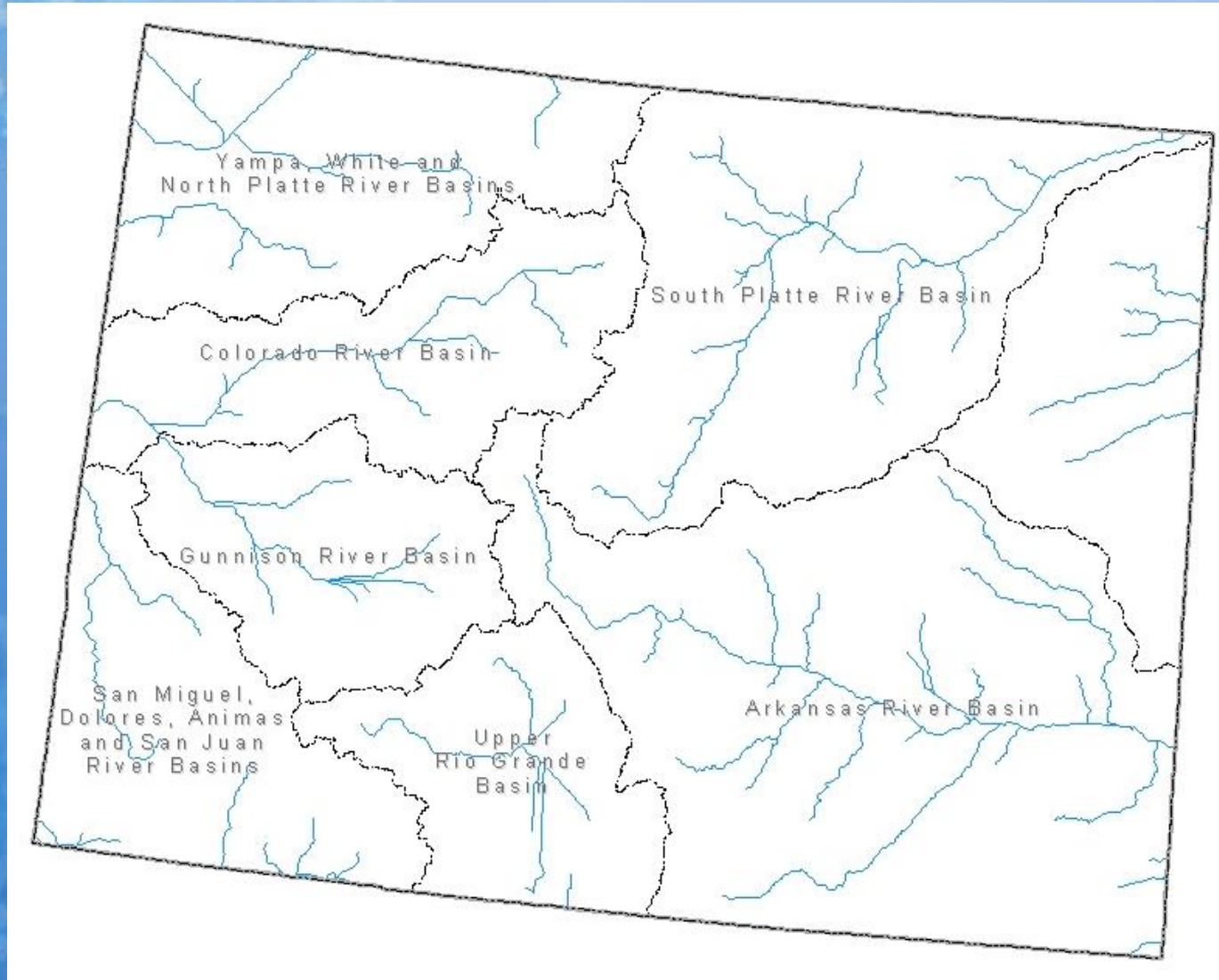
# Arkansas River Basin Streamflow Forecast Map

*Provisional Data  
Subject to Revision*



Current as of June 1, 2011

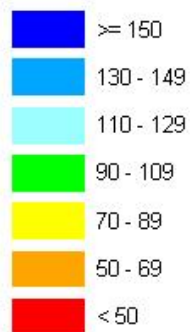
# Colorado Statewide Summary



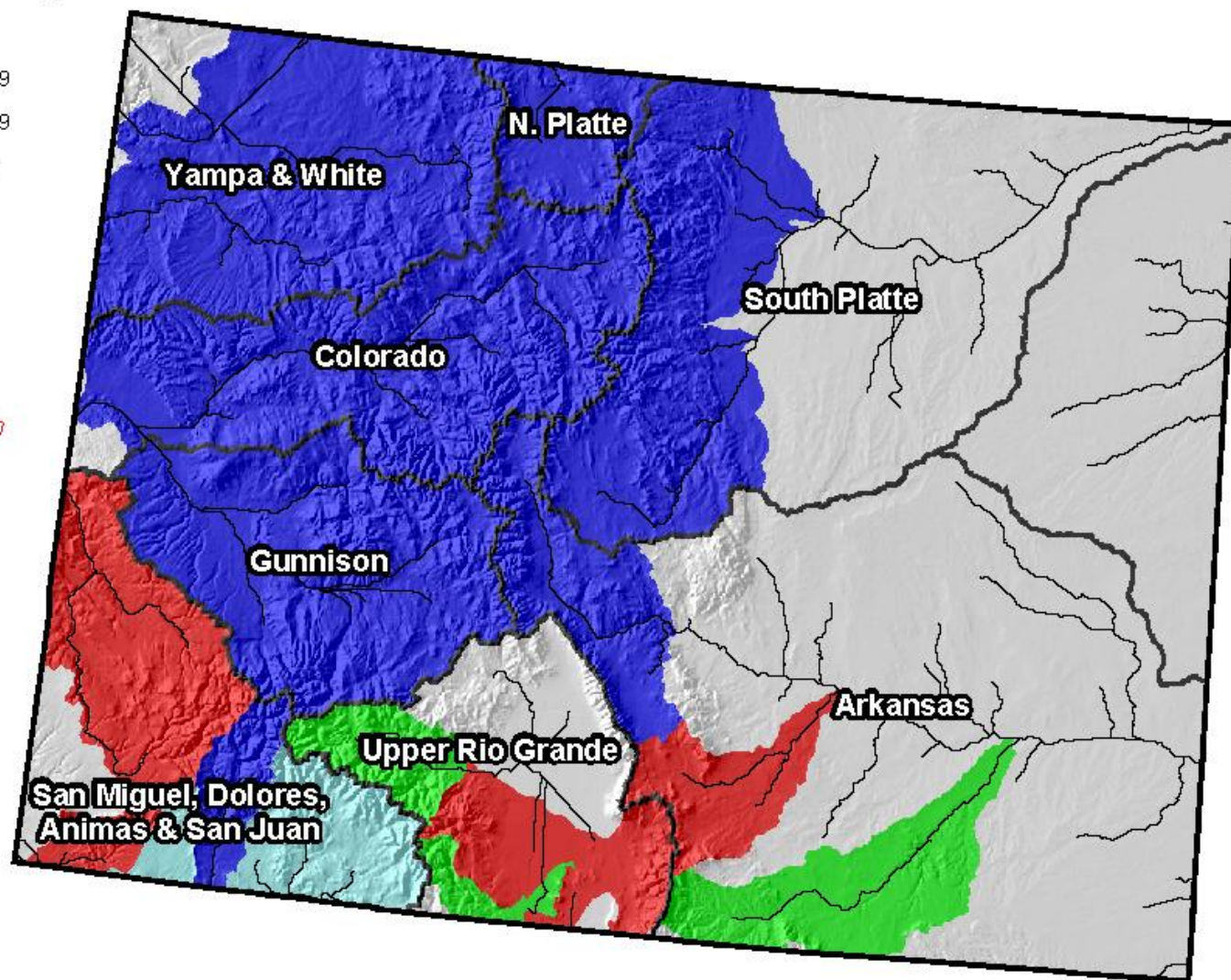


# Colorado Snowpack Map

Percent of Average



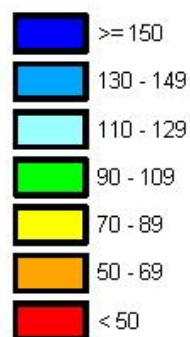
*Provisional Data  
Subject to Revision*



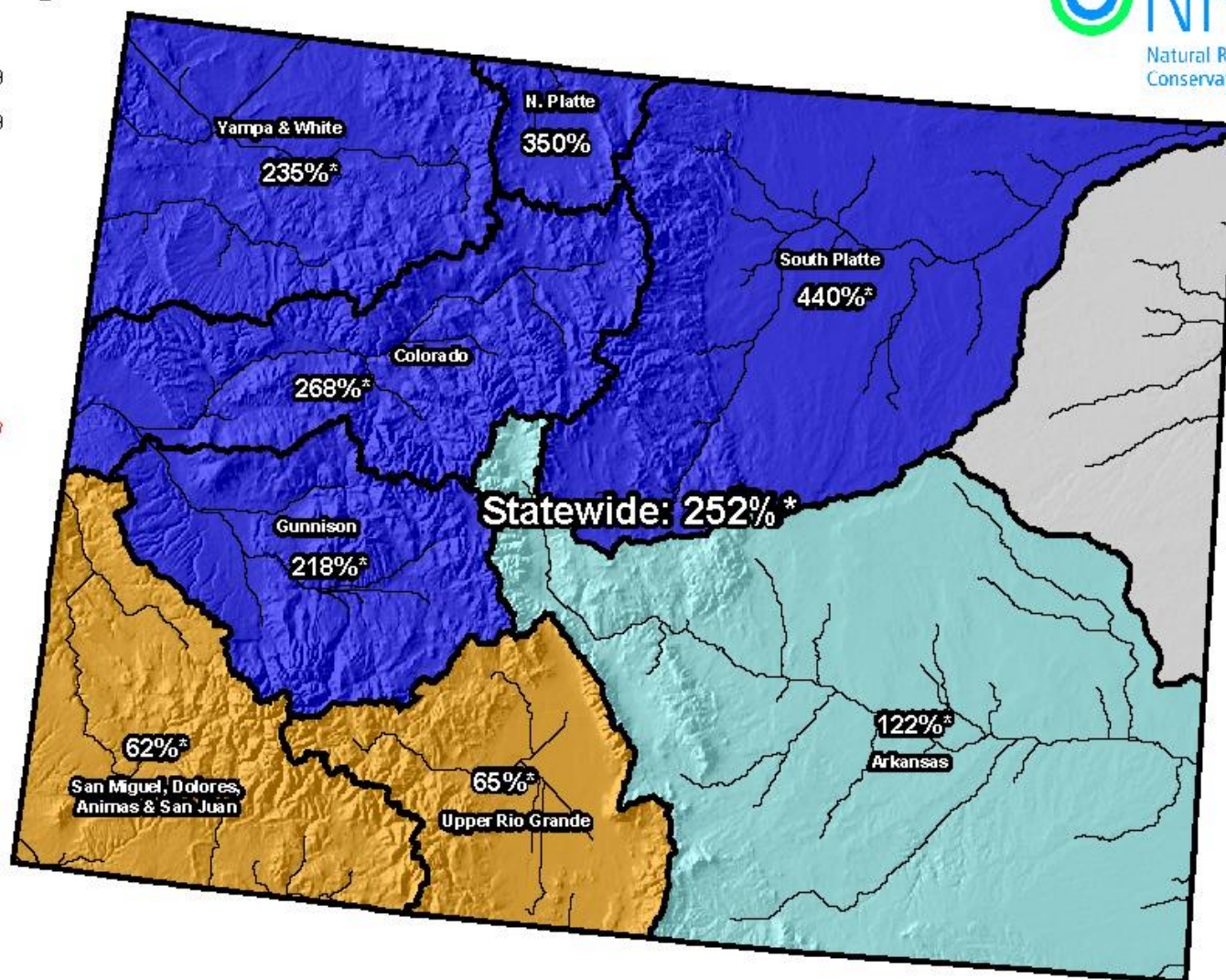
Current as of June 1, 2011

# Colorado SNOTEL Snowpack Update Map

Percent of Average



*Provisional Data  
Subject to Revision*



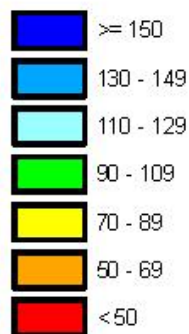
Current as of Jun 17, 2011

\*Data may not provide a valid measure of conditions

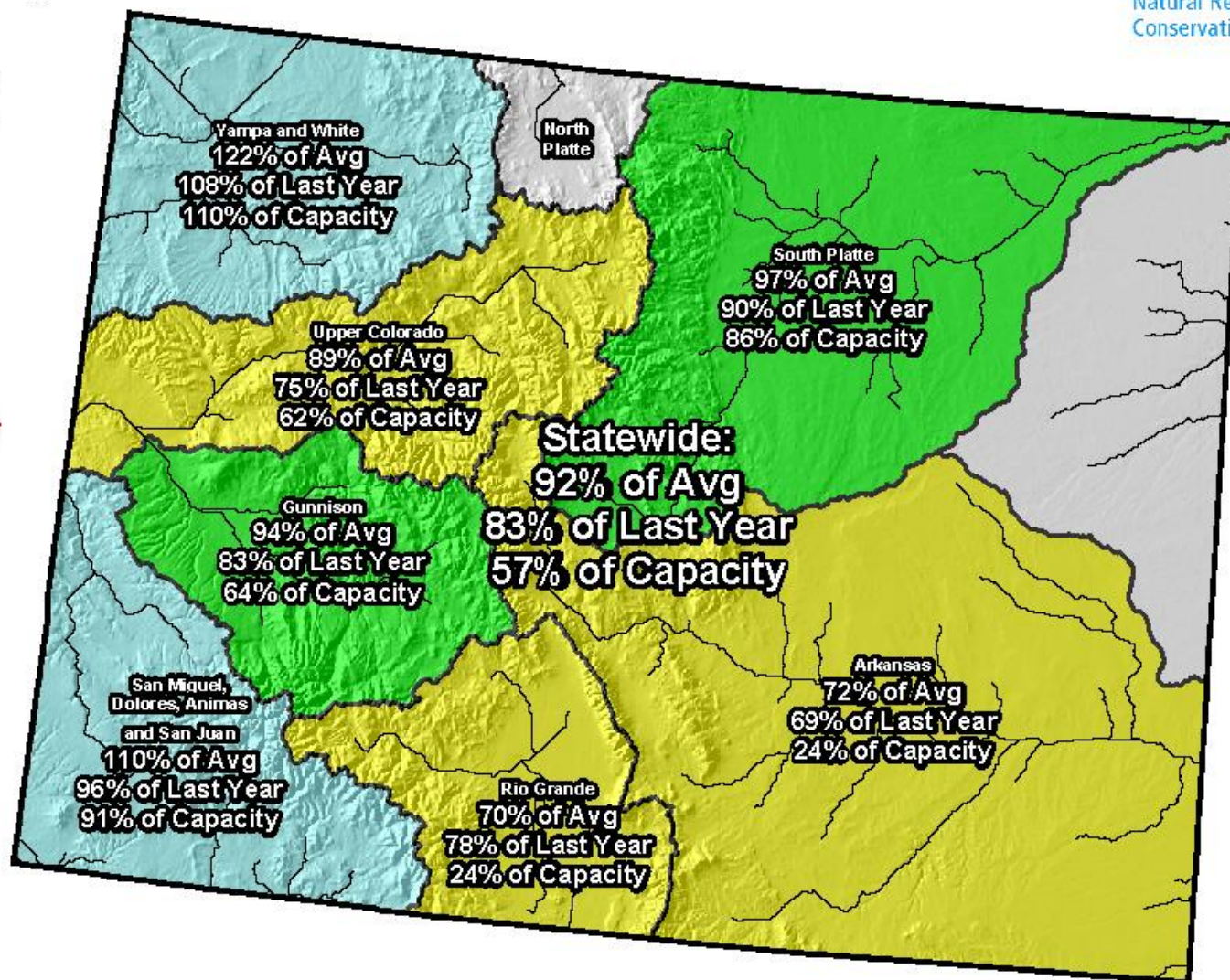


# Colorado Reservoir Storage Map

## Percent of Average



*Provisional Data  
Subject to Revision*



End of May 2011

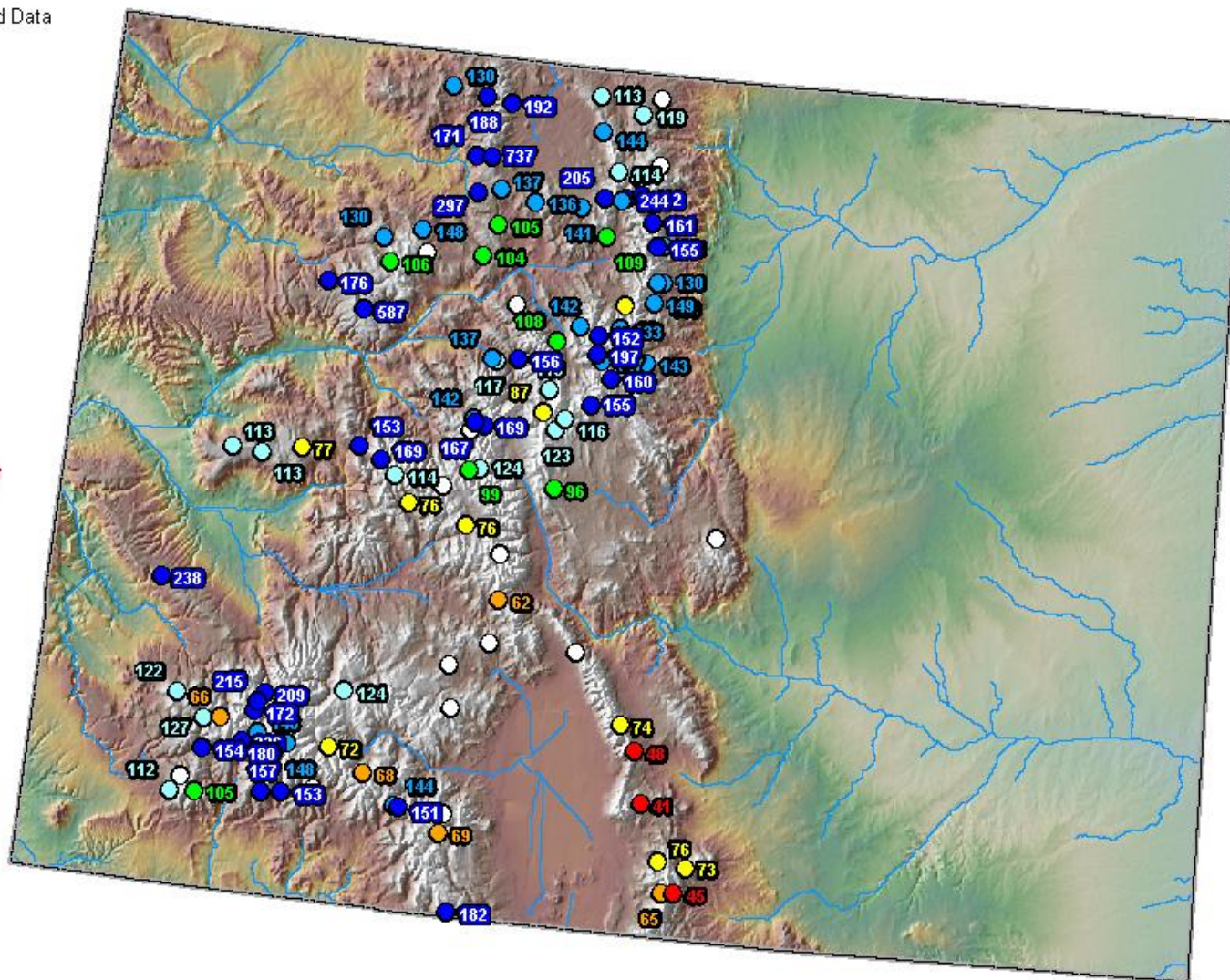


# Colorado SNOTEL Month-to-Date Precipitation

Percent of Average

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

*Provisional Data  
Subject to Revision*



Current as of May 31, 2011

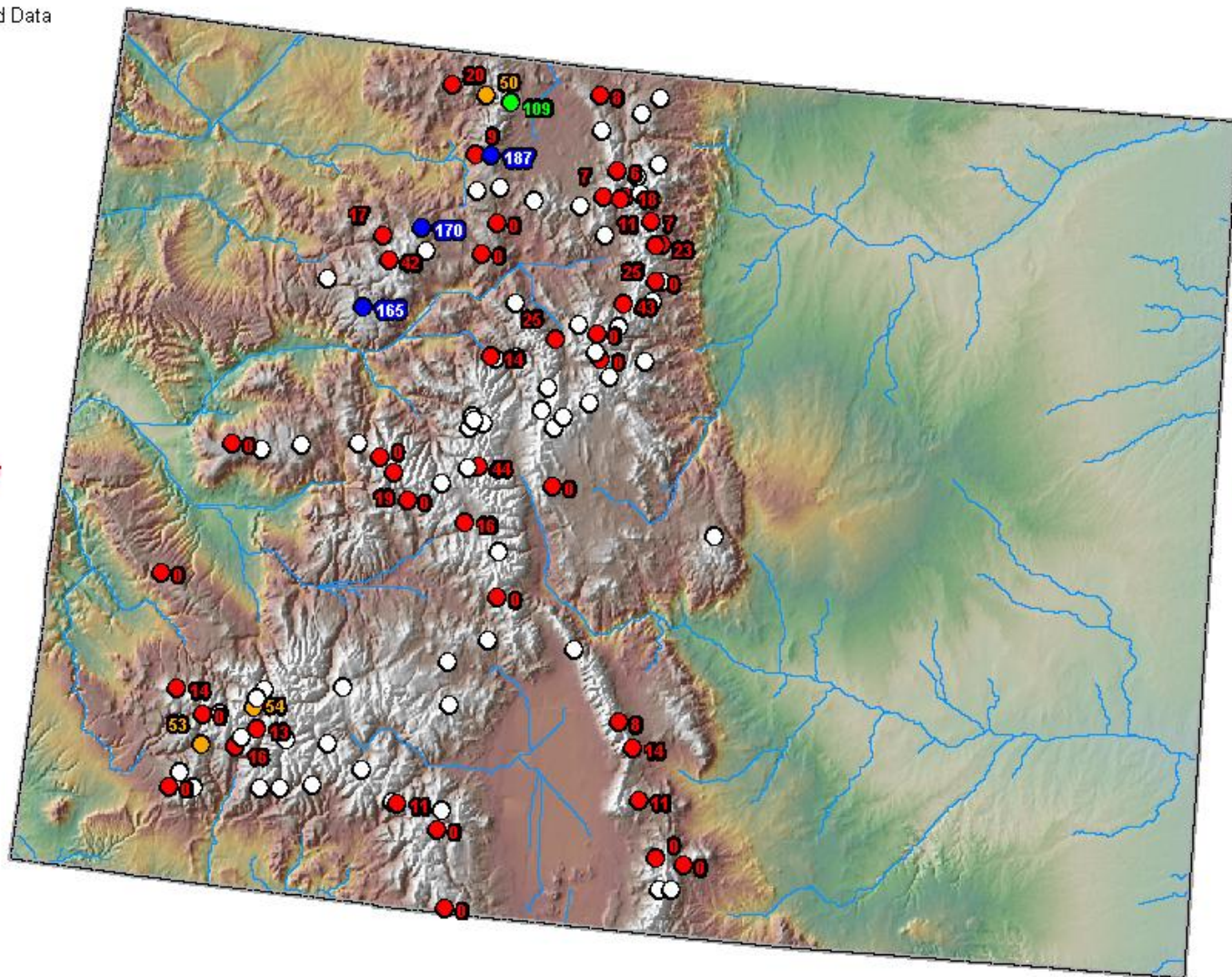


# Colorado SNOTEL Month-to-Date Precipitation

Percent of Average

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

*Provisional Data  
Subject to Revision*



Current as of Jun 17, 2011



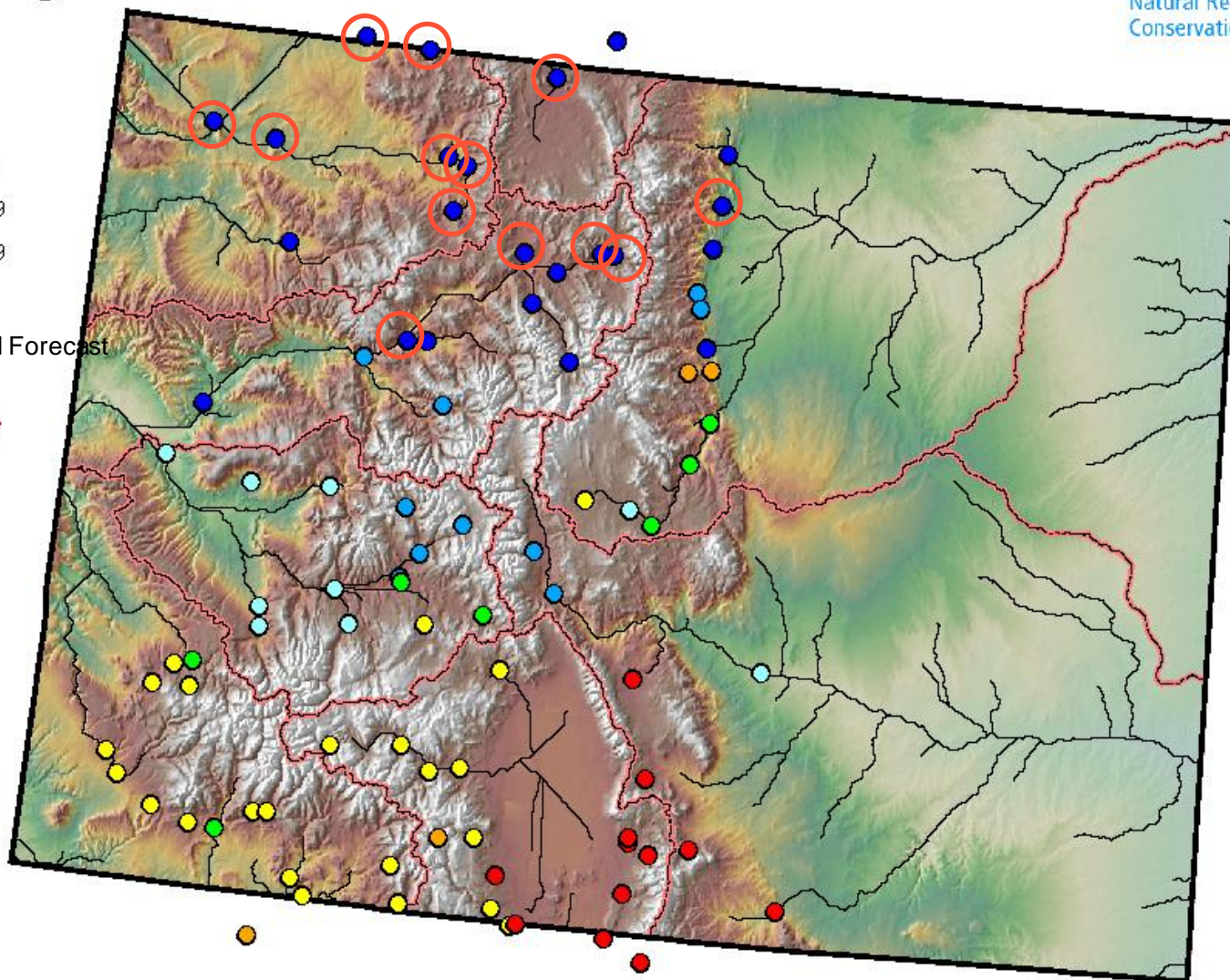
# Colorado Streamflow Forecast Point Map

## Percent of Average

- < 50
- 50 - 69
- 70 - 89
- 90 - 109
- 110 - 129
- 130 - 149
- $\geq 150$

○ Record Forecast

*Provisional Data  
Subject to Revision*



Current as of June 1, 2011



[illegible]