

NRCS – Snow Survey & Water Supply Forecasting

Mike Gillespie

Joint Water Availability Task Force Meeting
January 18, 2011

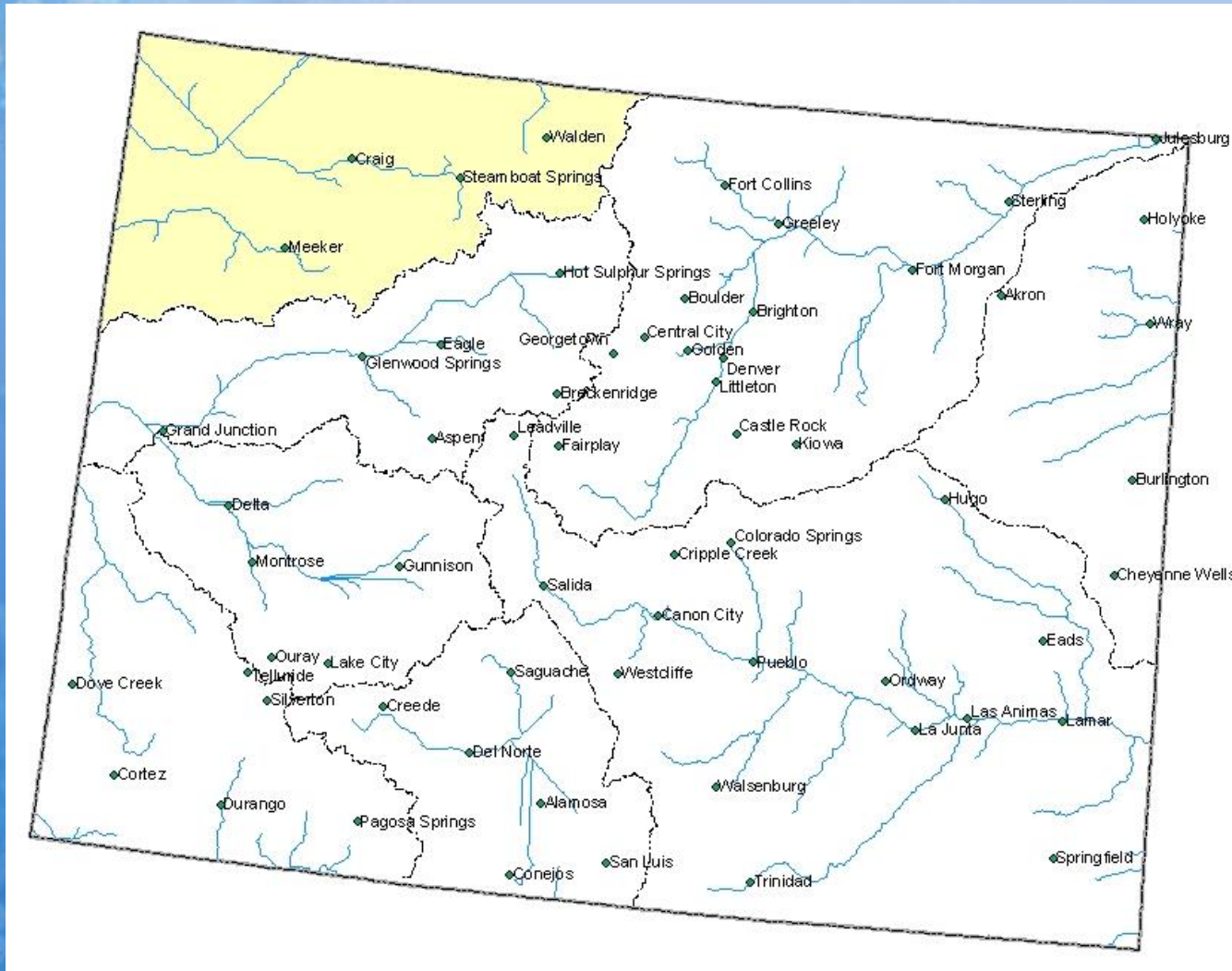
The 2011 Water Year

October – Above average precipitation nearly statewide, with exceptionally high (170% - 190% of avg.) precipitation across the northern basins.

November – Slightly above average precipitation across the northern basins. Below average precipitation across the southern basins. Very slow start to the southern snowpack.

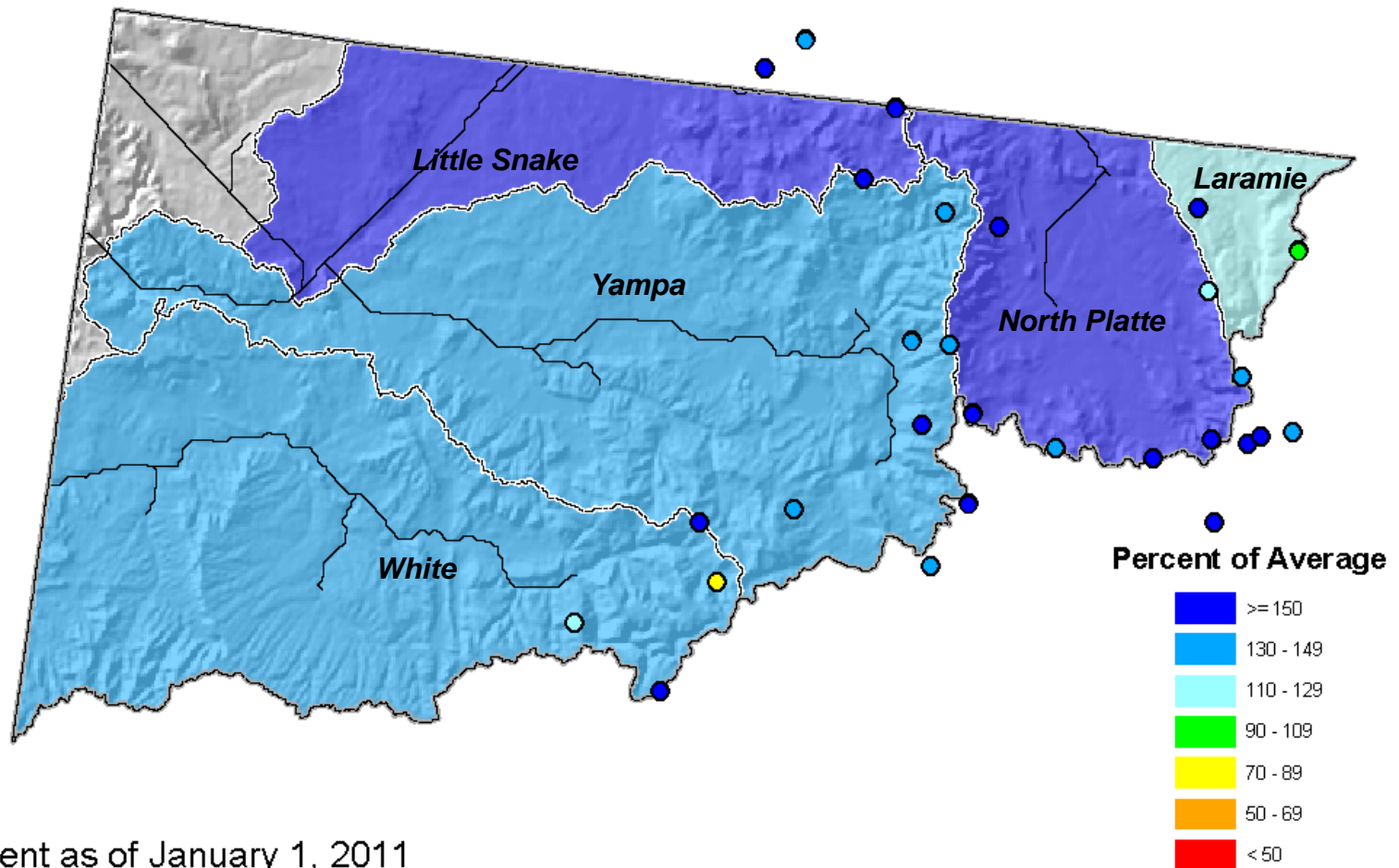
December – Continued warm and dry during the first half of the month. Impressive snow storms during the second half, bringing nearly the entire state to above average snowpack totals.

Yampa, White & North Platte River Basins Summary



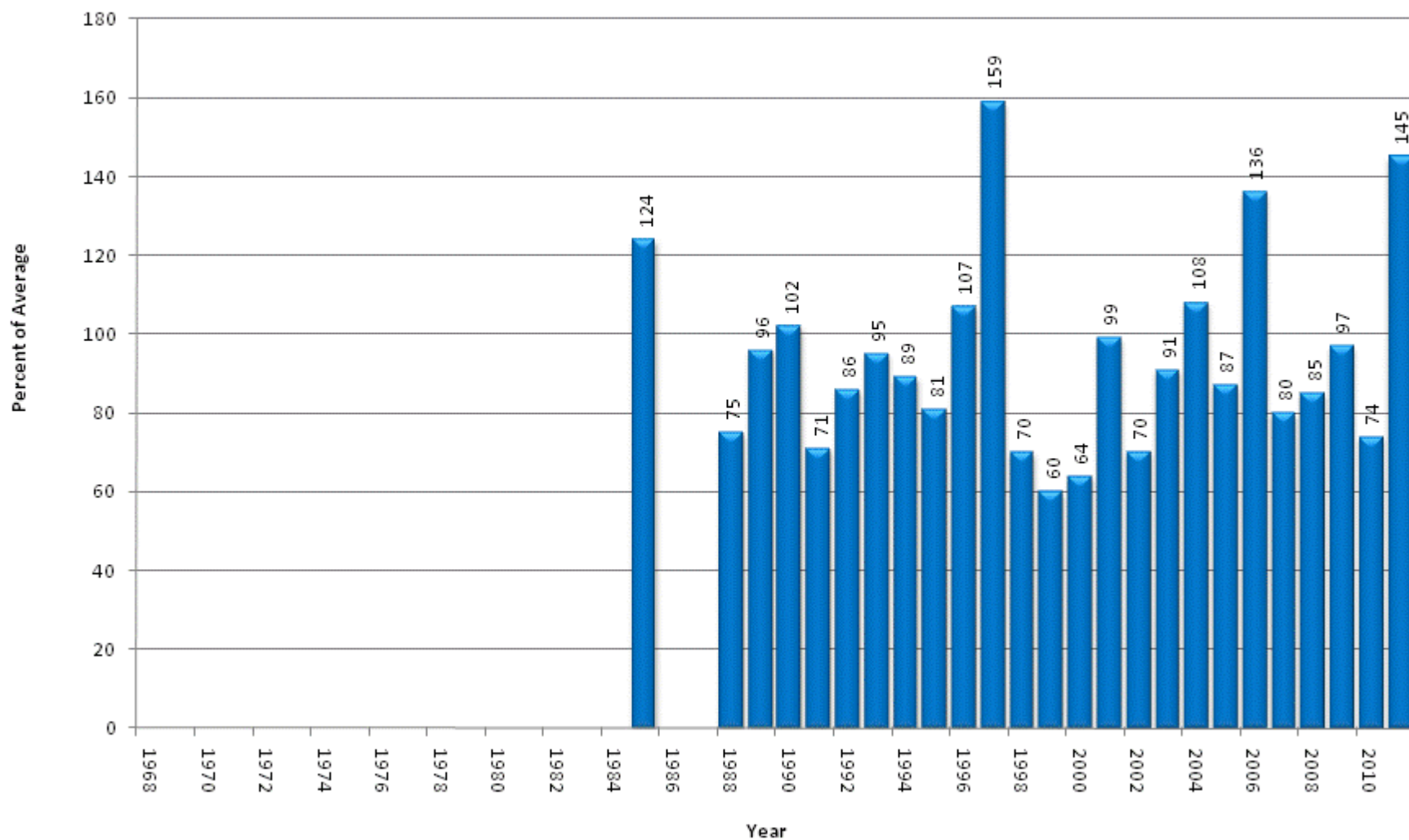
Yampa, White and North Platte River Basins Snowpack Map

*Provisional Data
Subject to Revision*



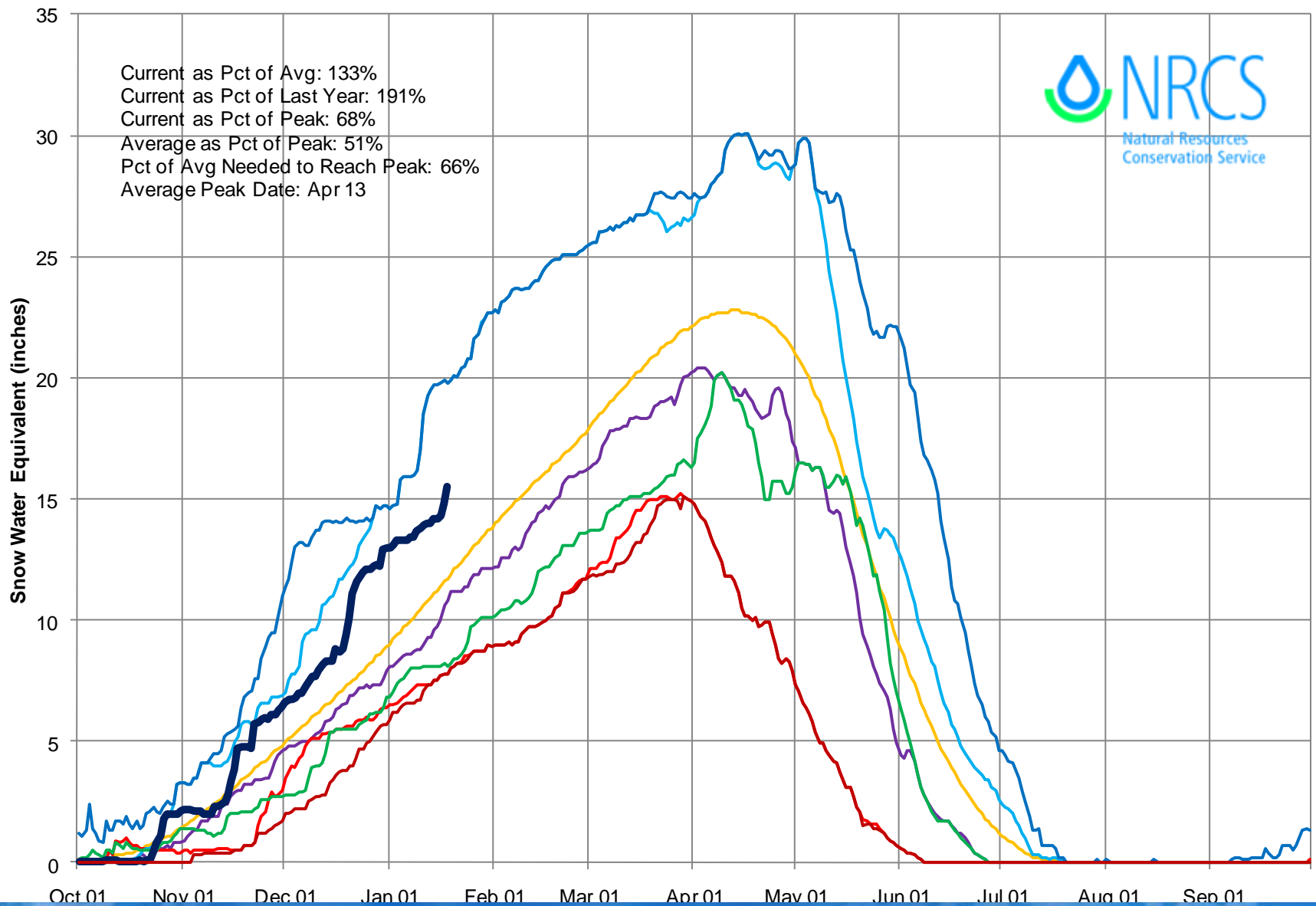
Current as of January 1, 2011

January 1 Total Yampa & White River Basins Snowpack



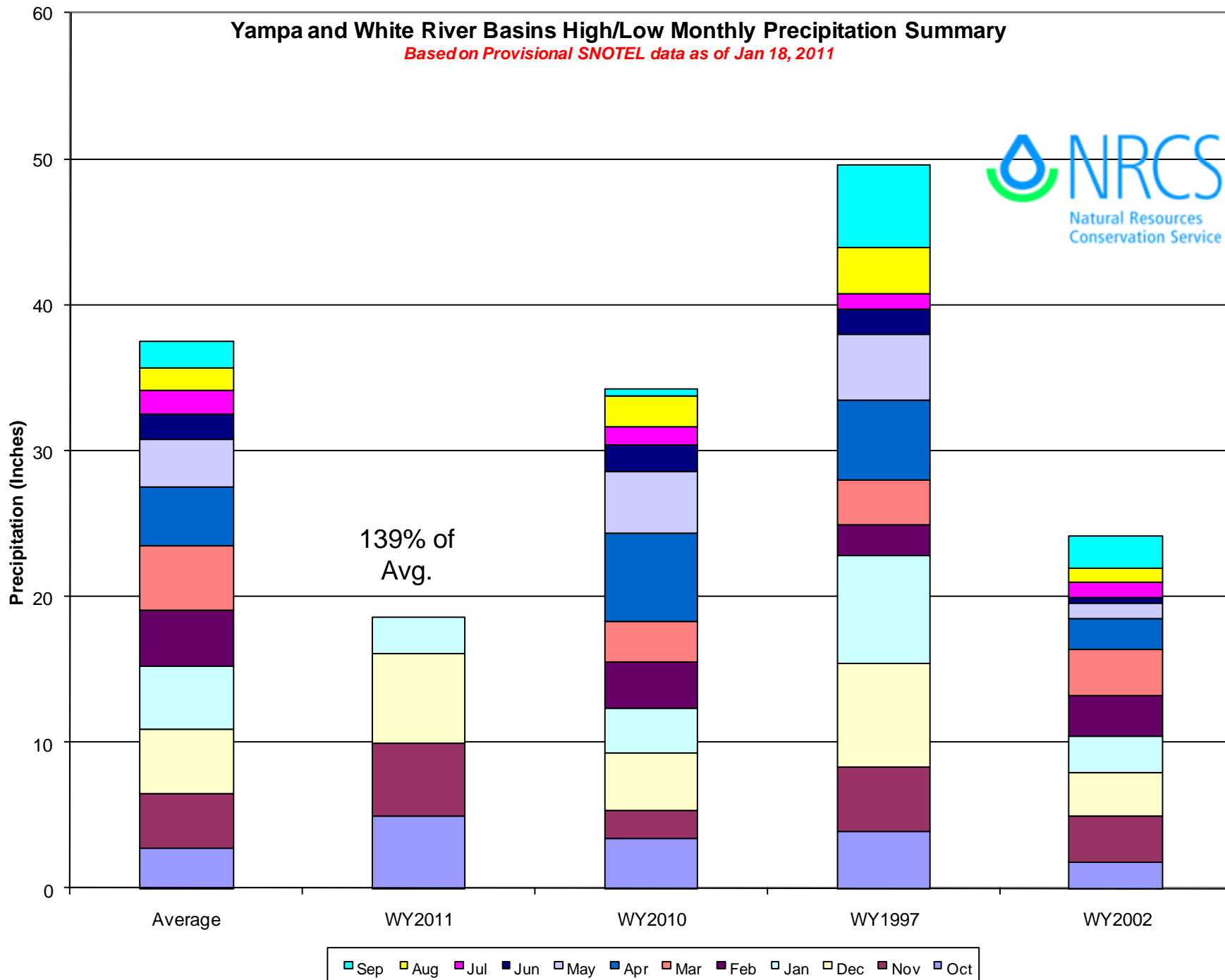
Yampa and White River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jan 18, 2011



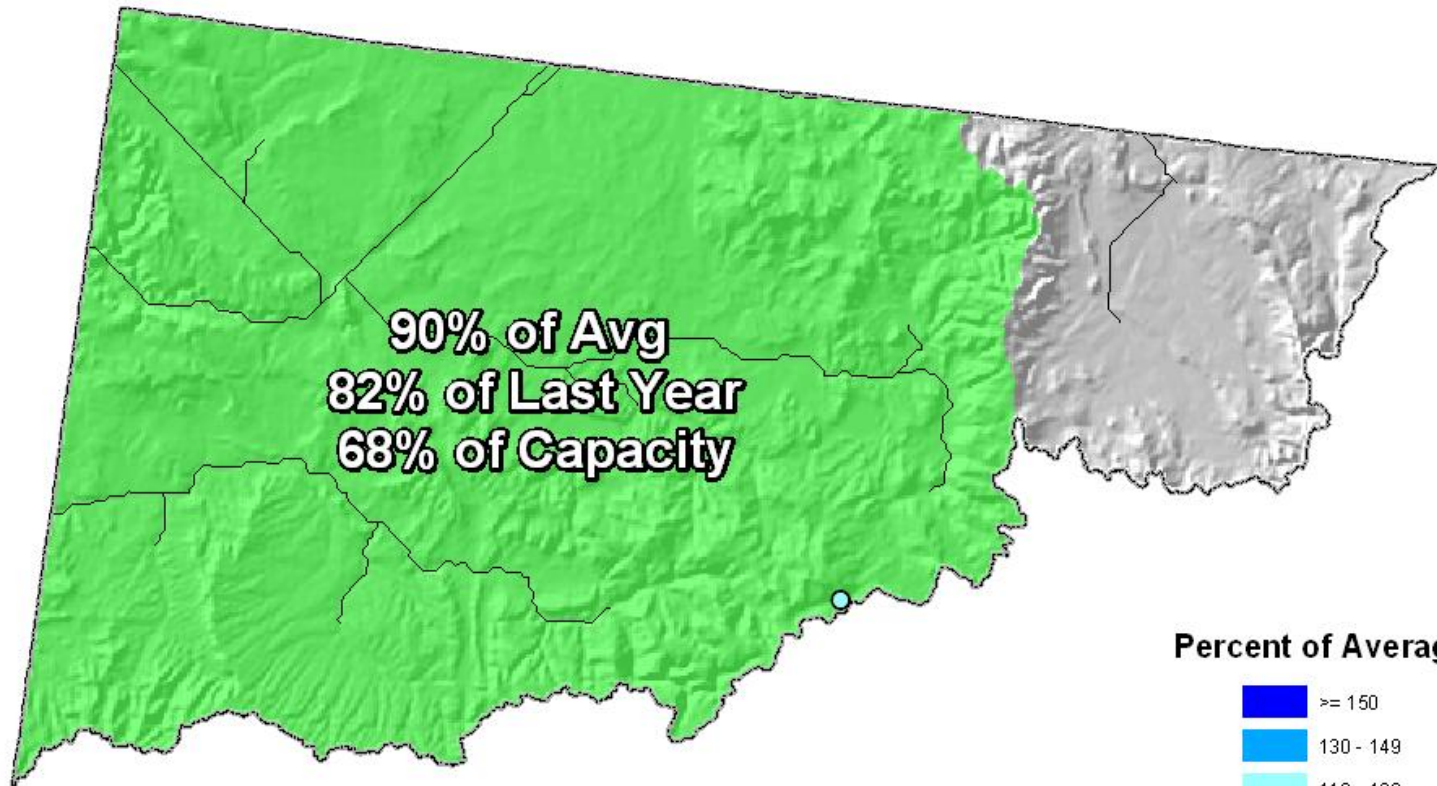
Yampa and White River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 18, 2011



Yampa & White River Basins Reservoir Storage Map

*Provisional Data
Subject to Revision*



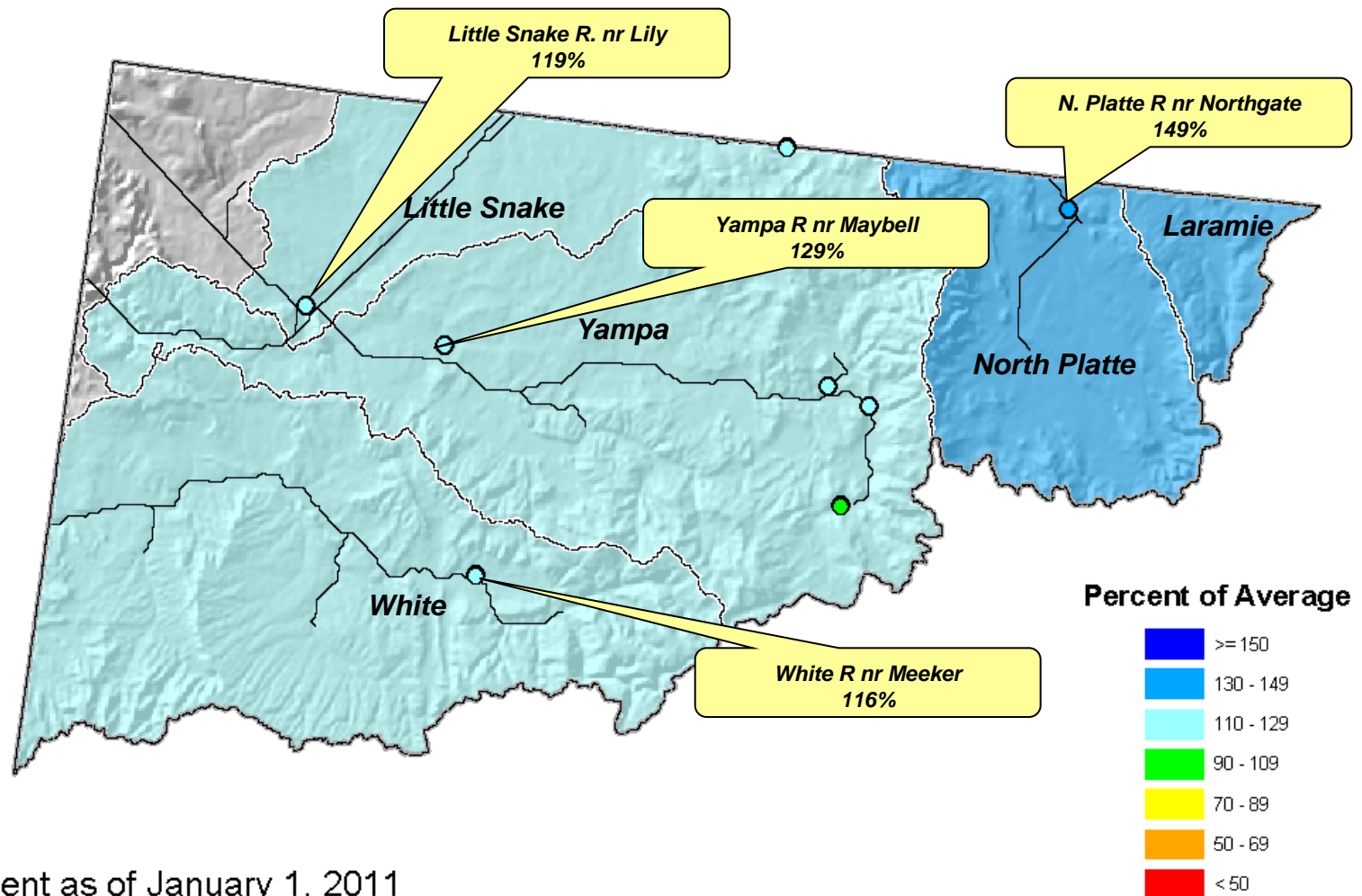
Percent of Average



End of December 2010

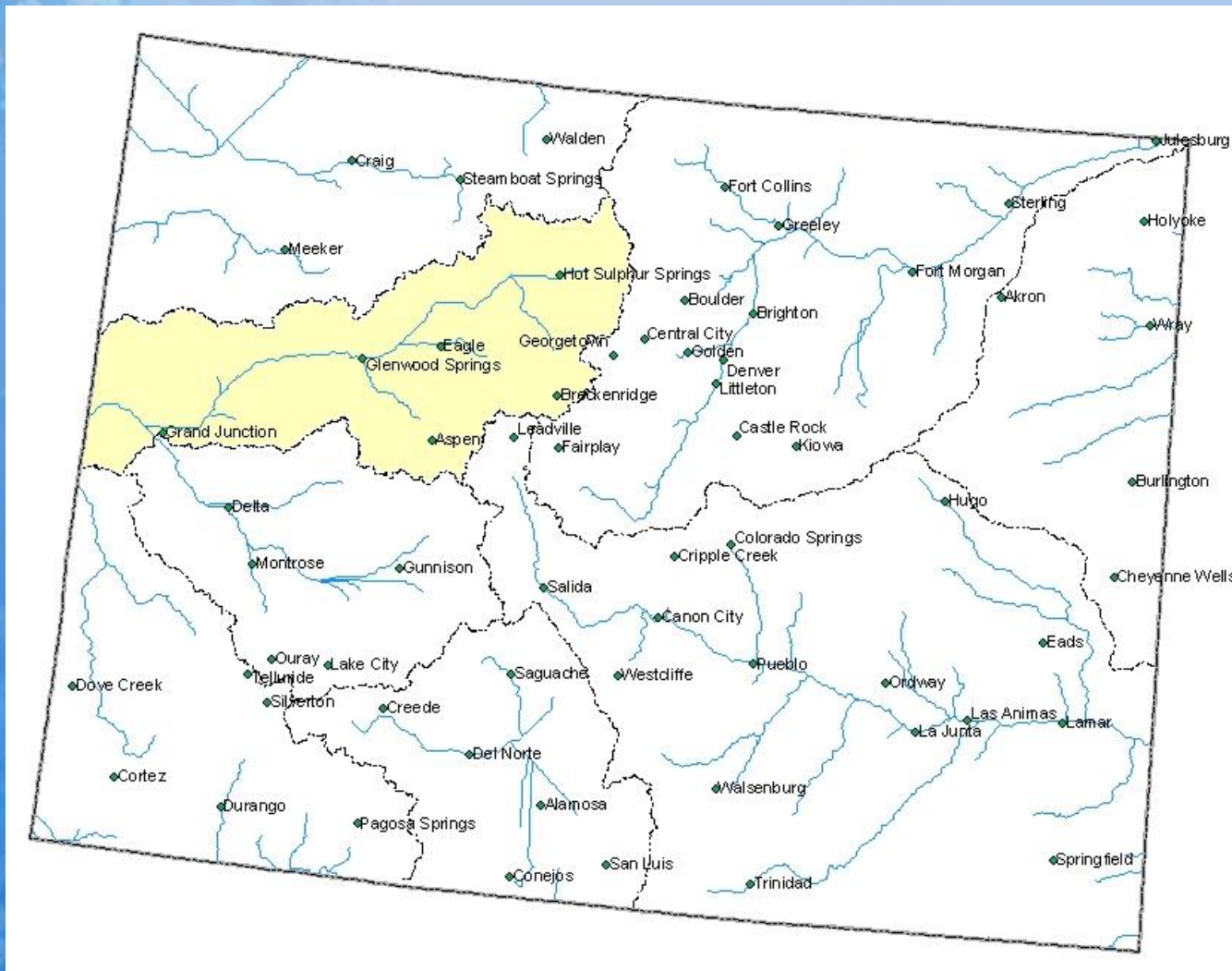
Yampa, White and North Platte River Basins Streamflow Map

*Provisional Data
Subject to Revision*



Current as of January 1, 2011

Colorado River Basin Summary

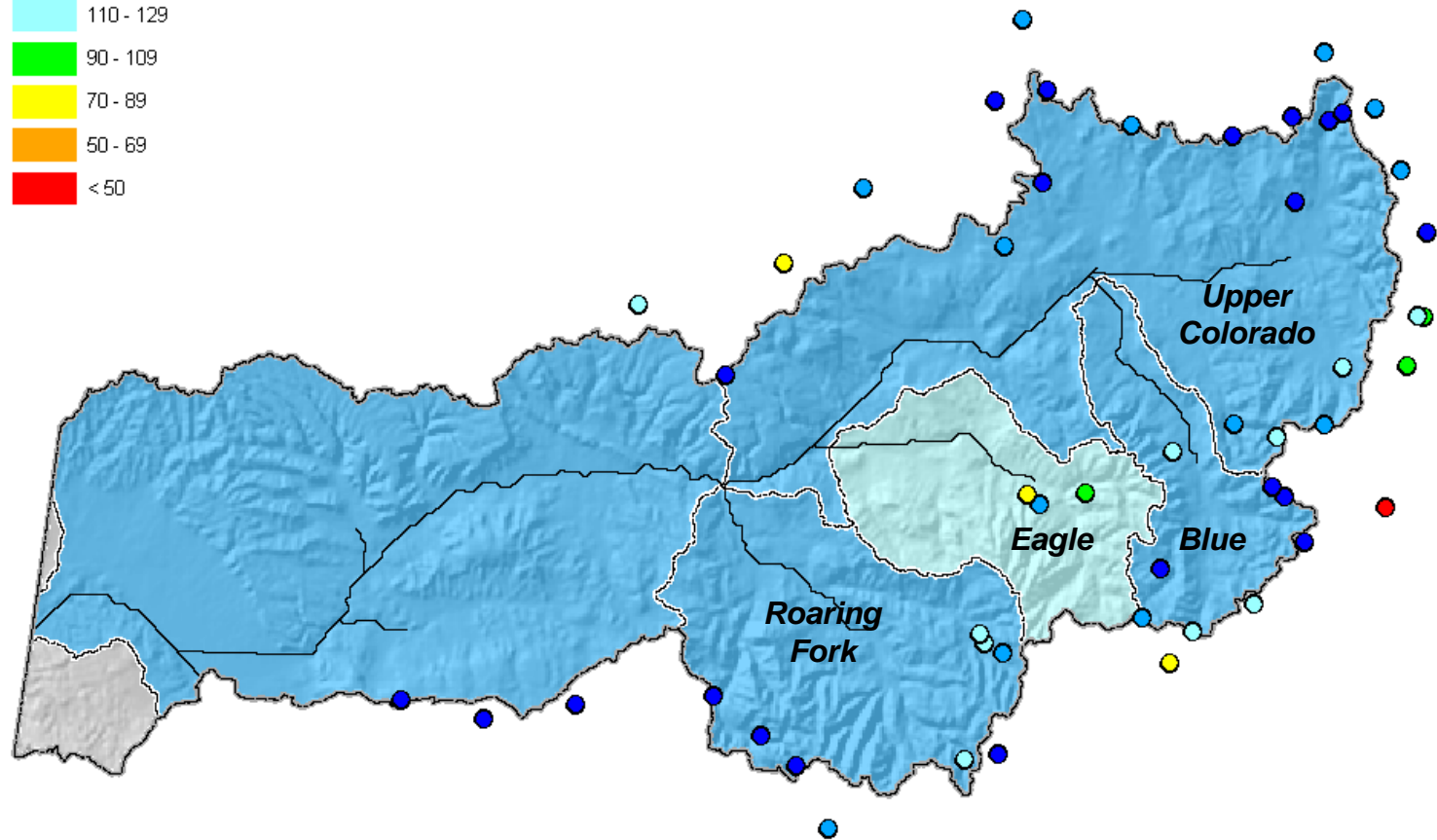


Colorado River Basin Snowpack Map

Percent of Average

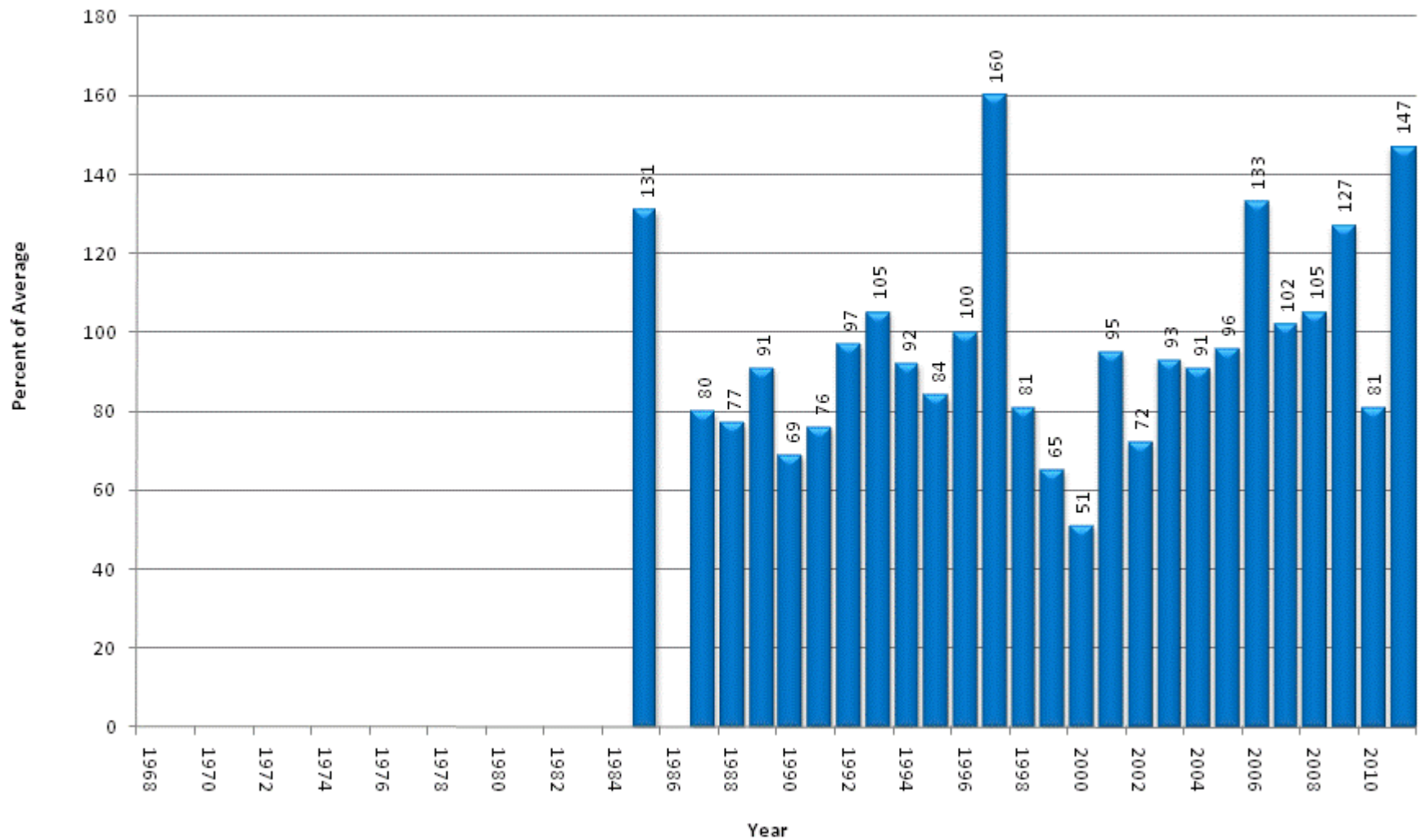


*Provisional Data
Subject to Revision*



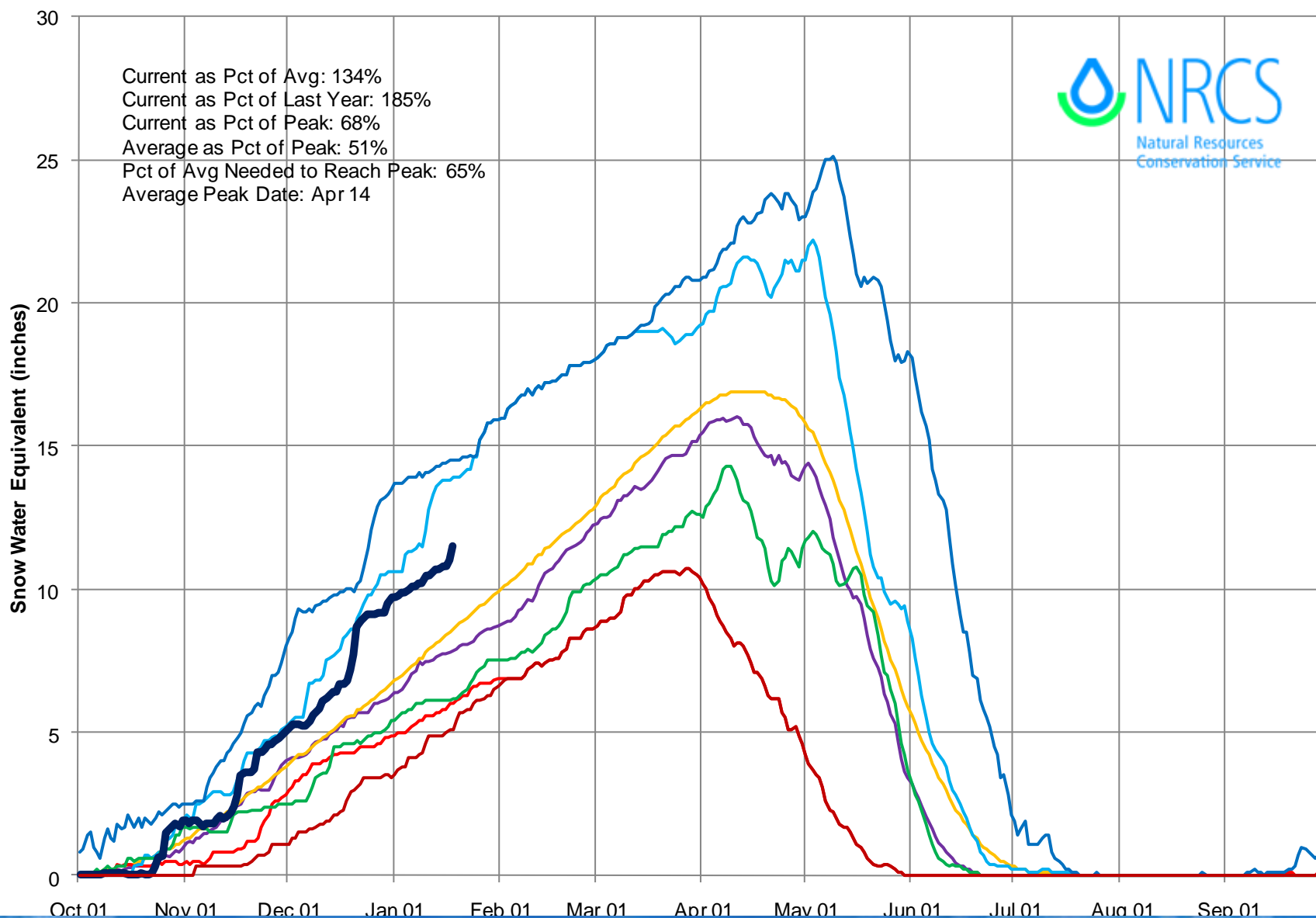
Current as of January 1, 2011

January 1 Total Colorado River Basin Snowpack



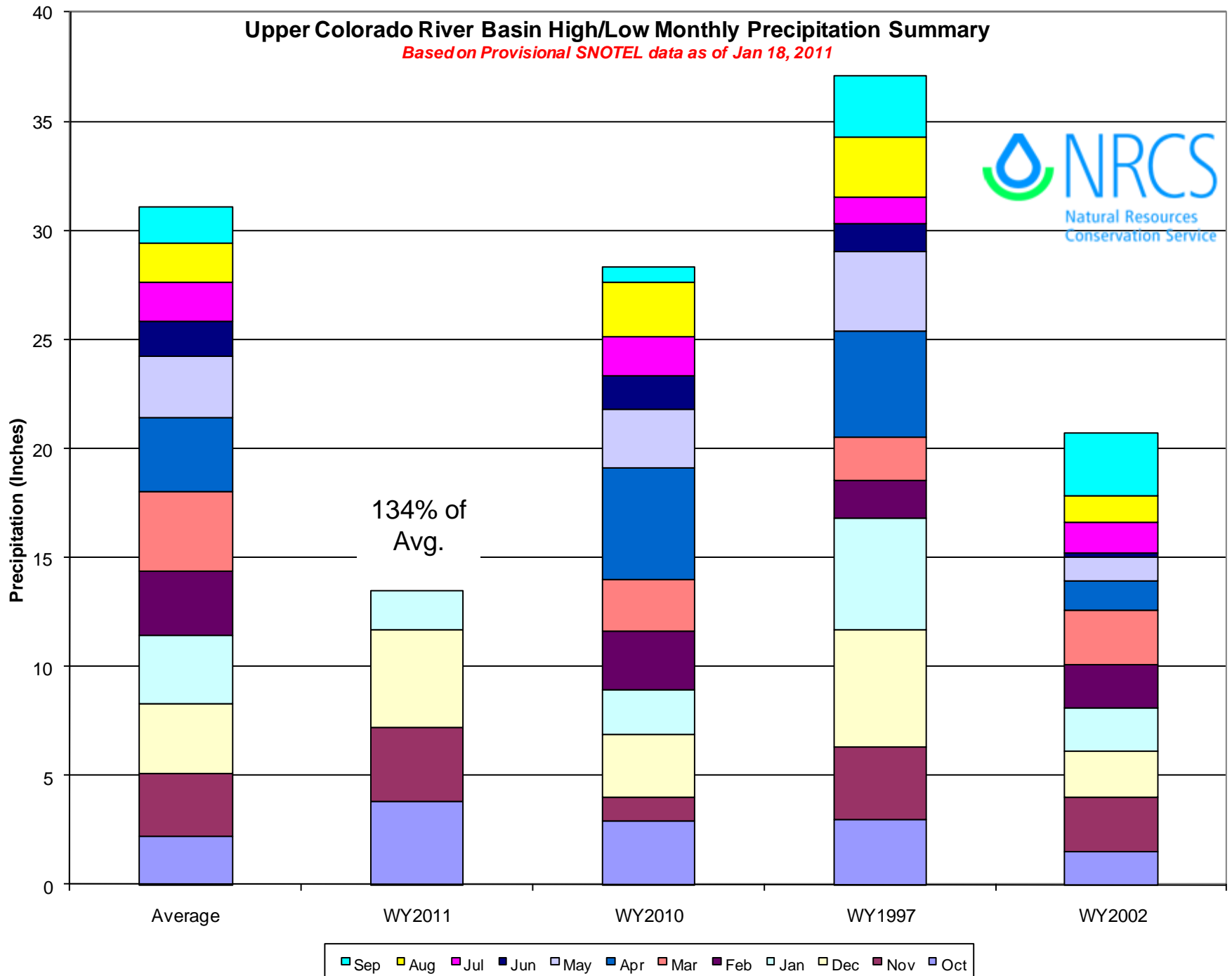
Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jan 18, 2011



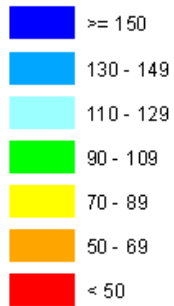
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 18, 2011

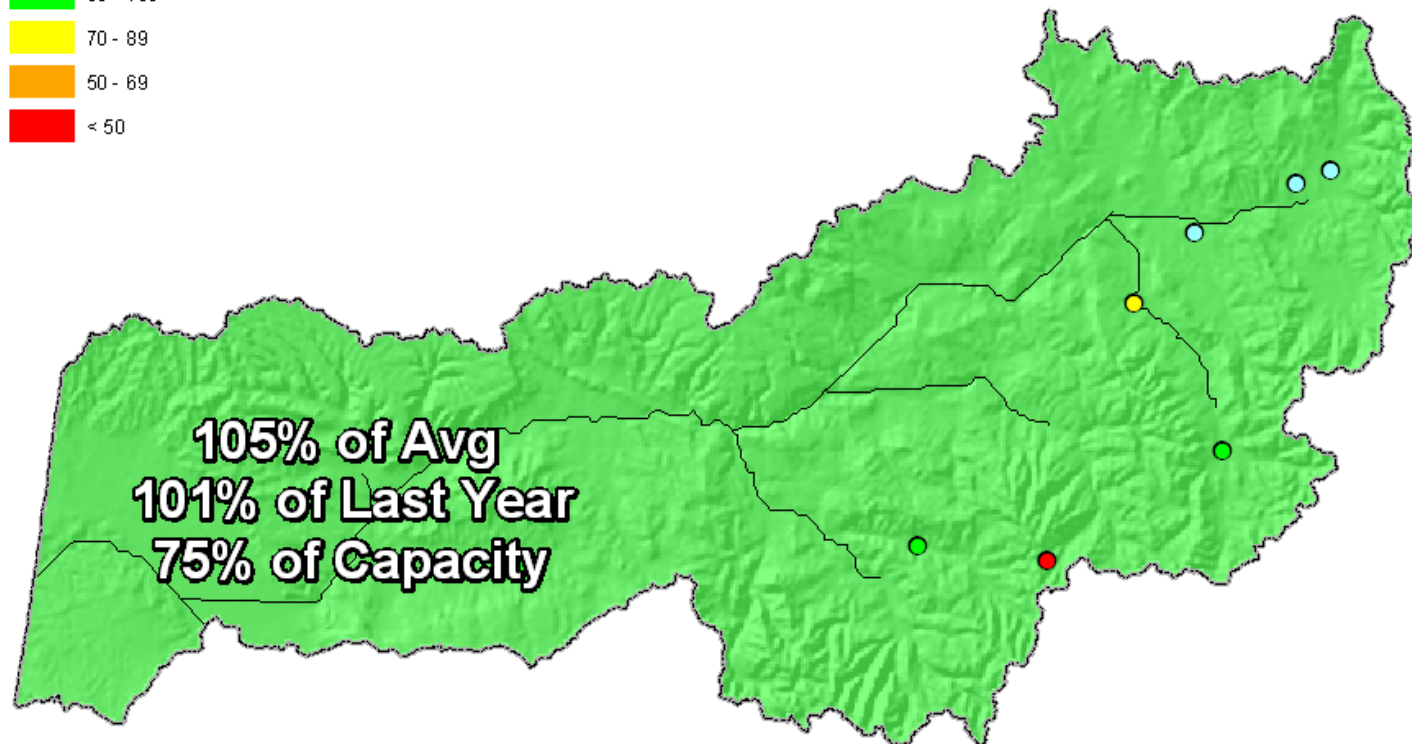


Colorado River Basin Reservoir Storage Map

Percent of Average

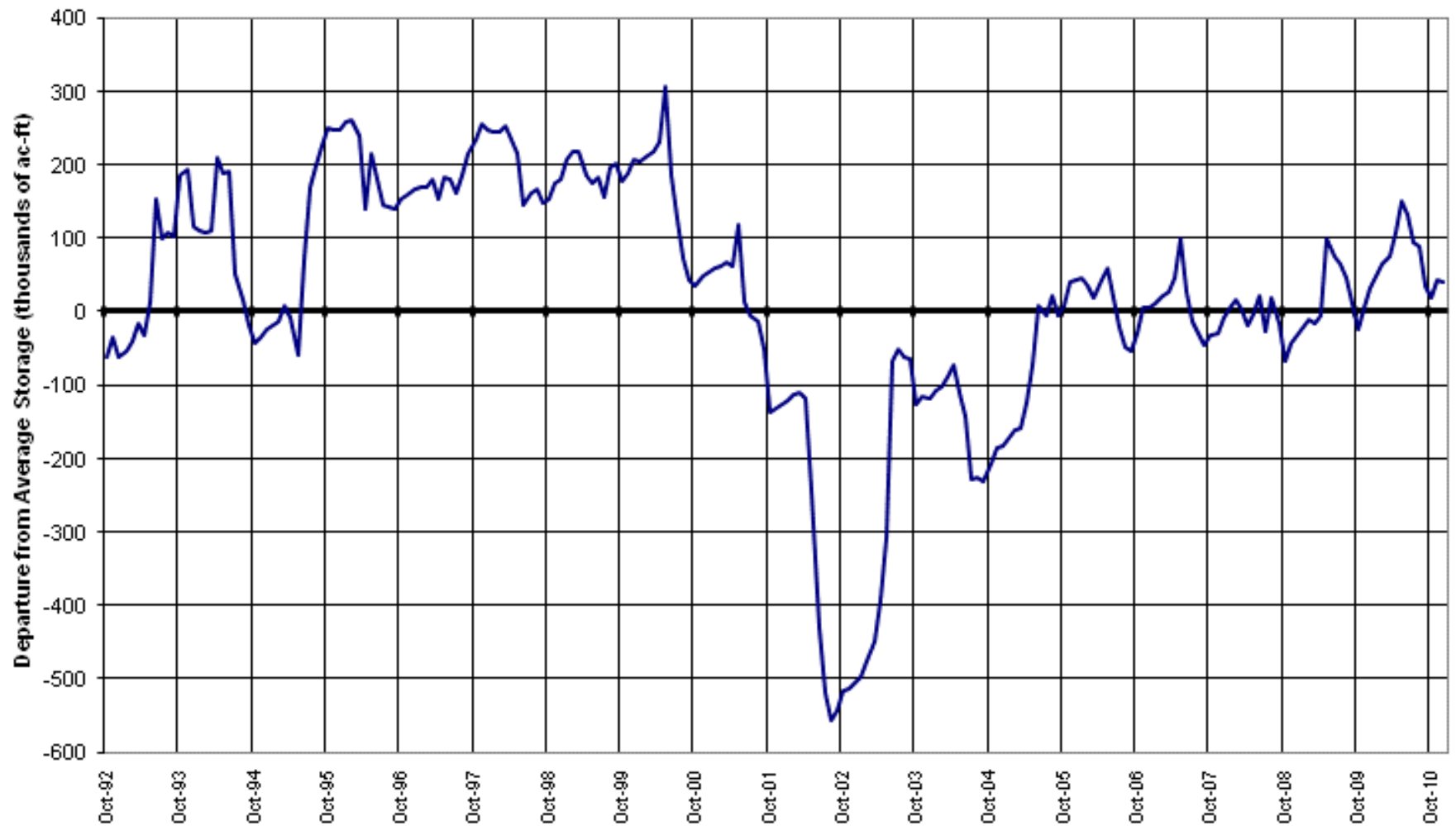


*Provisional Data
Subject to Revision*



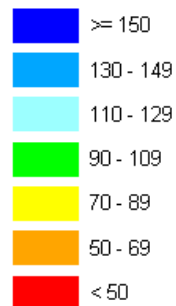
End of December 2010

COLORADO RIVER BASIN
Reservoir Storage
Departure from Average

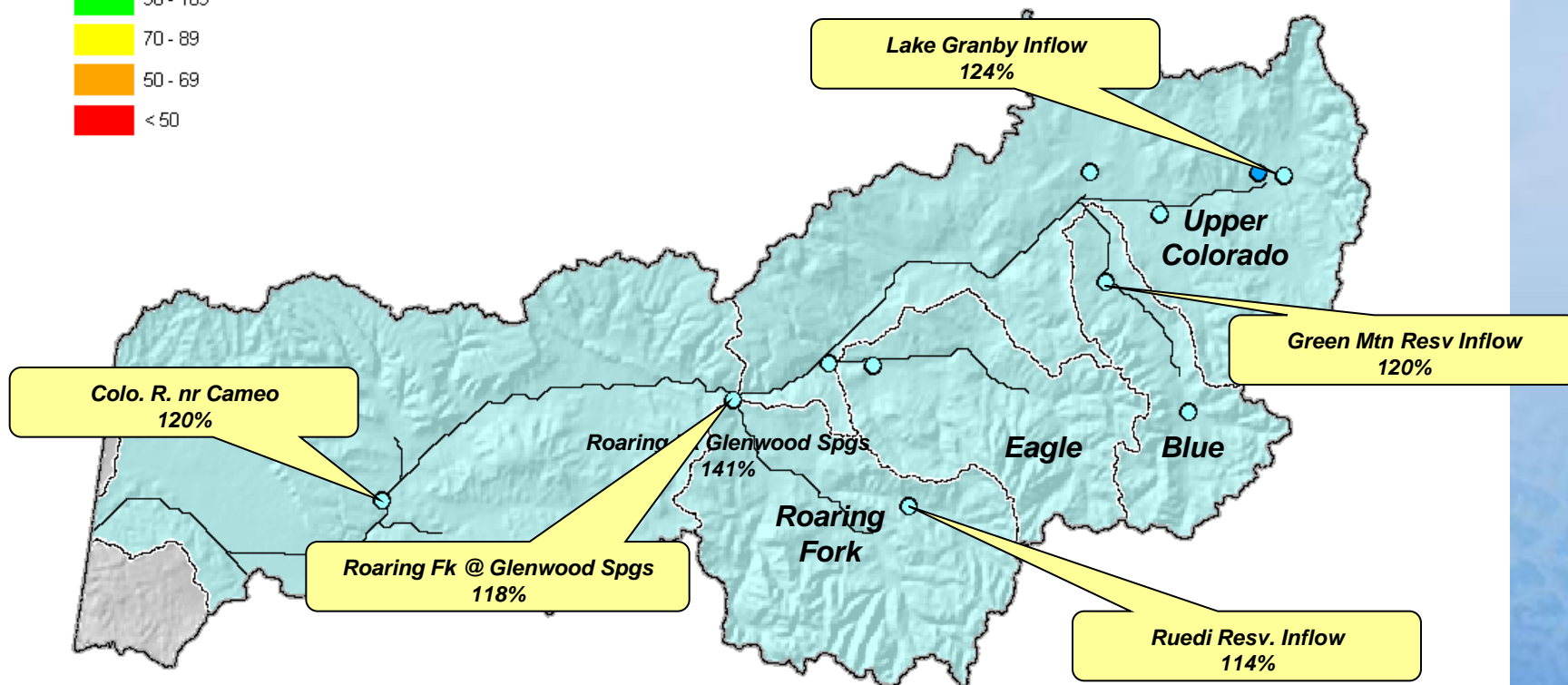


Colorado River Basin Streamflow Forecast Map

Percent of Average



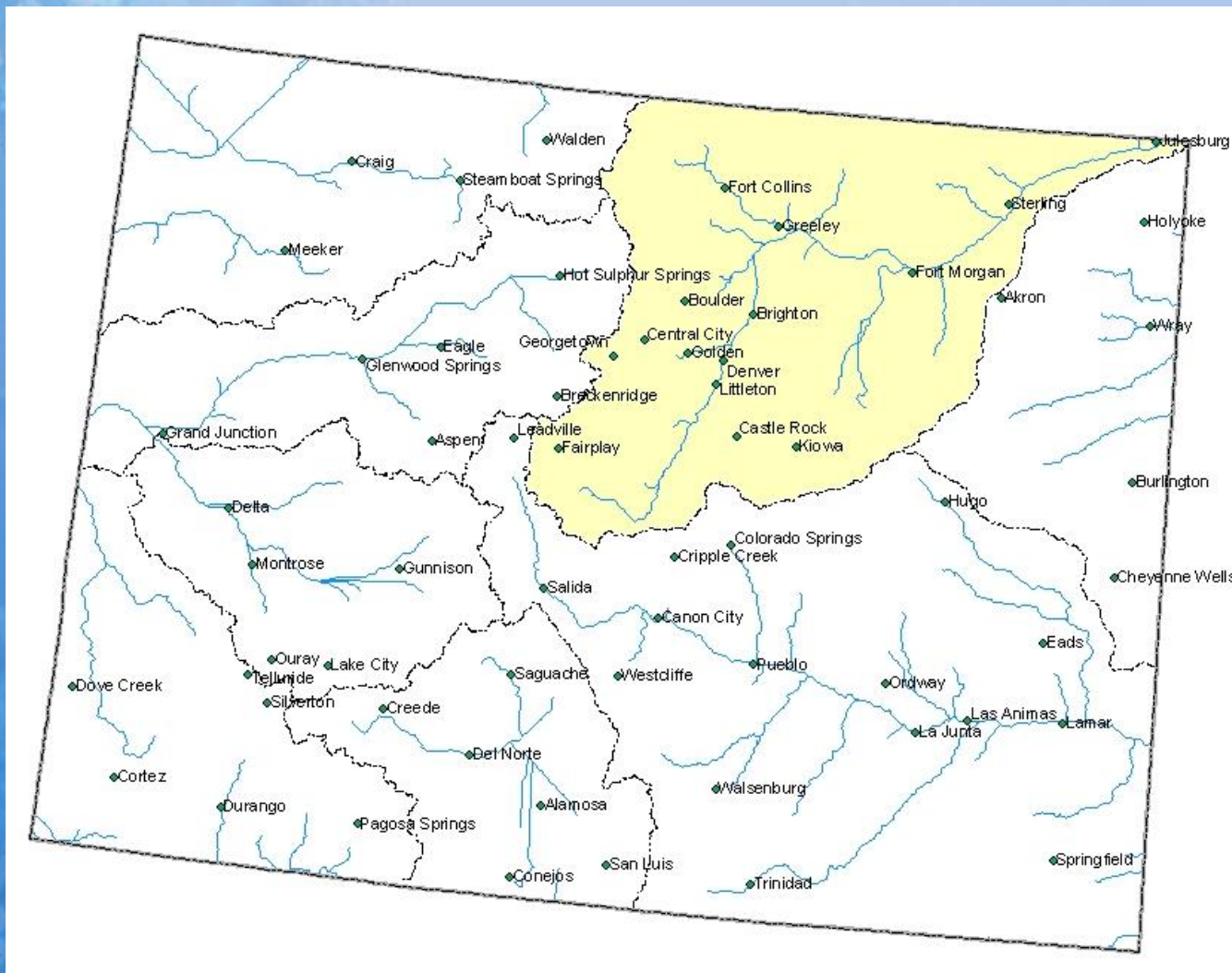
*Provisional Data
Subject to Revision*



Current as of January 1, 2011

Lake Powell Inflow: Apr-Jul 9.3 million ac-ft 117% avg.
As of 1/15/2011

South Platte River Basin Summary

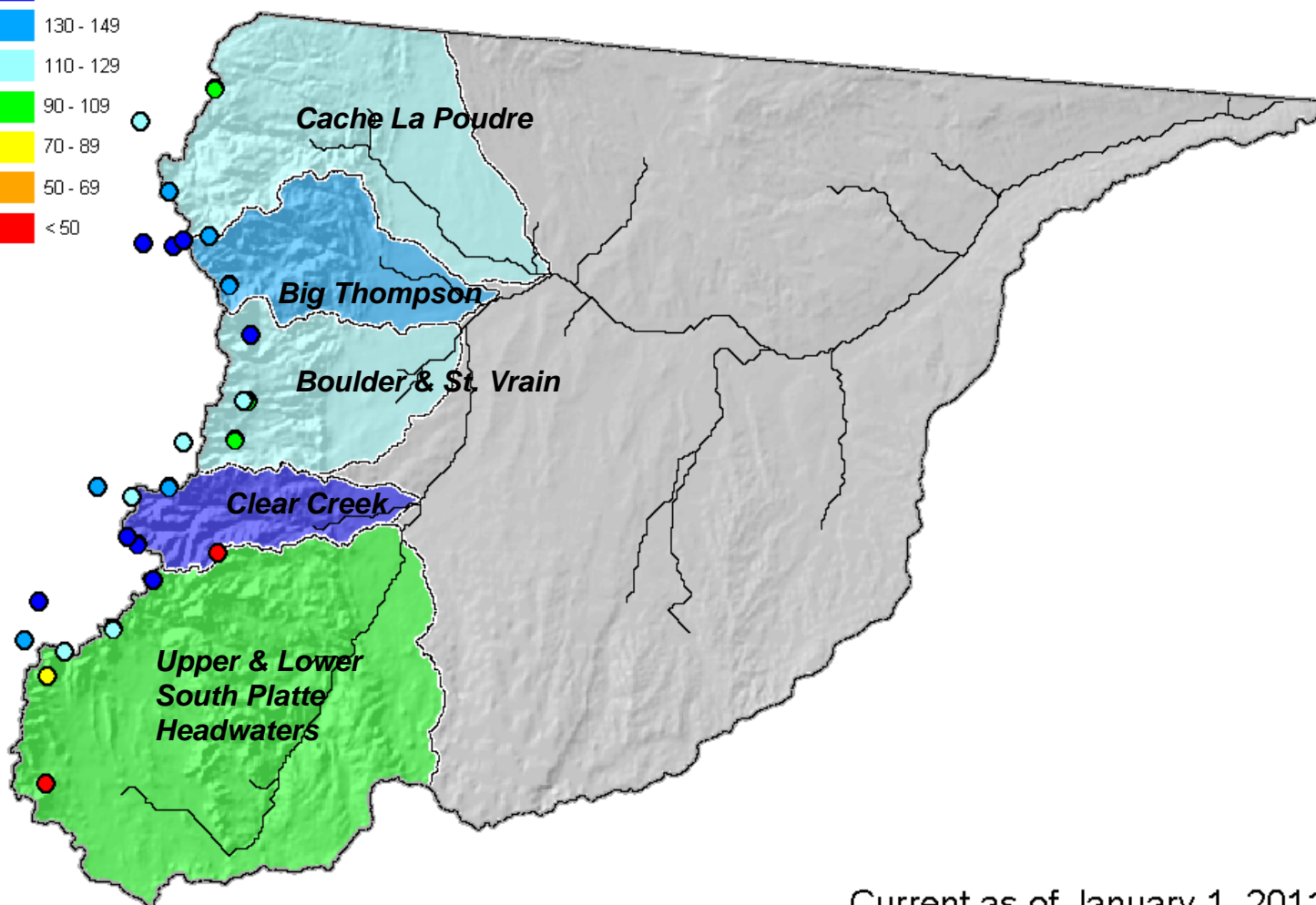


South Platte River Basin Snowpack Map

Percent of Average

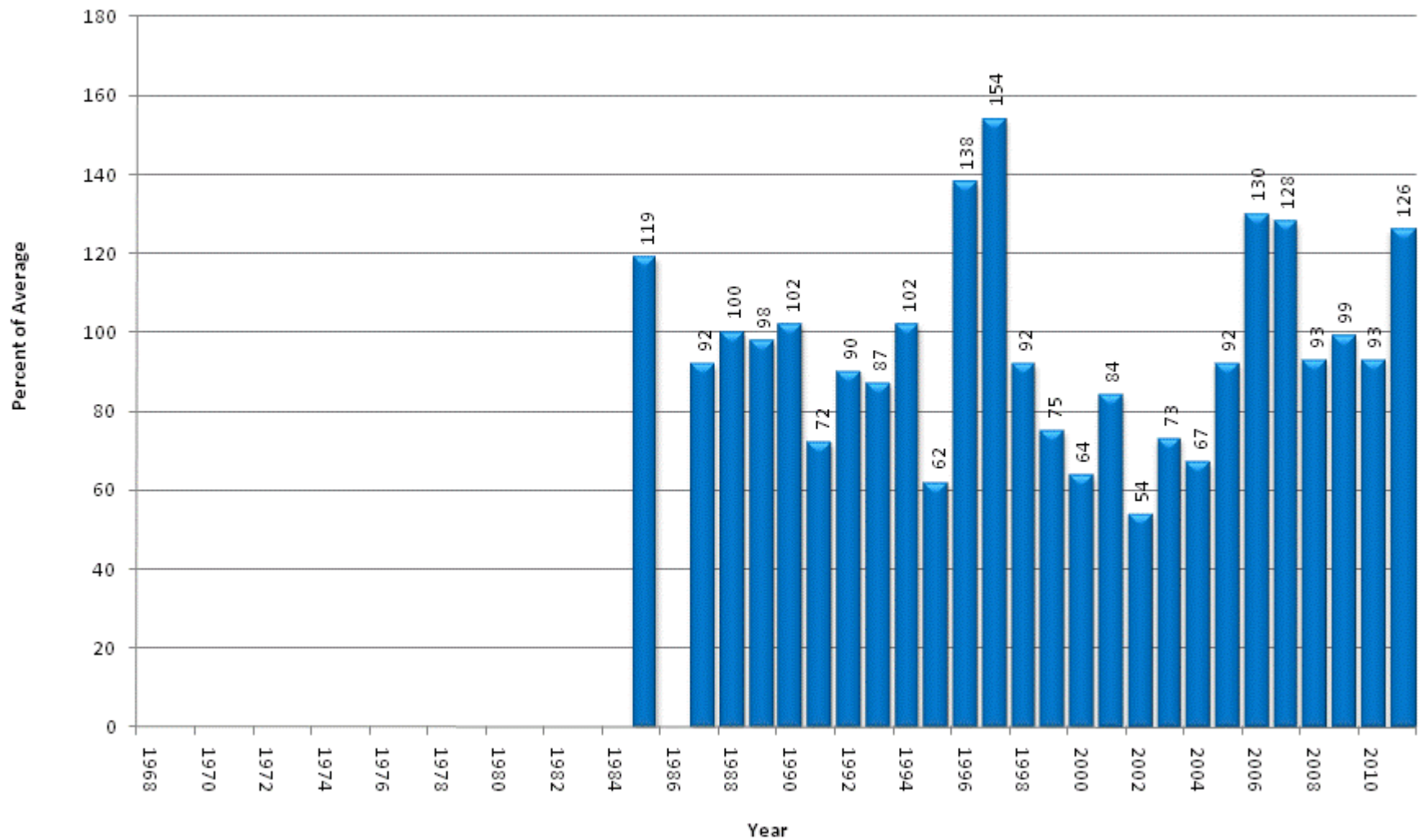


*Provisional Data
Subject to Revision*



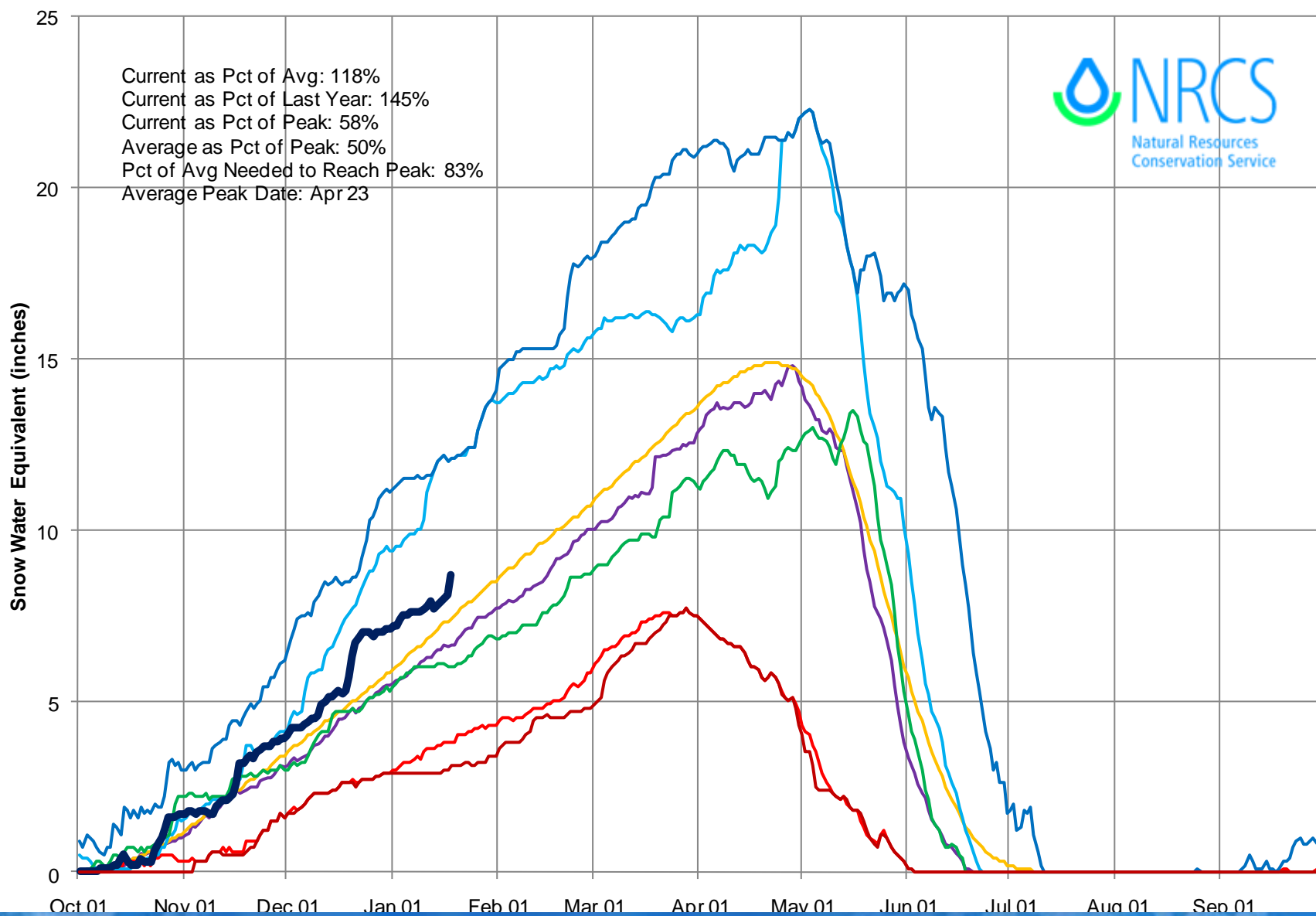
Current as of January 1, 2011

January 1 Total South Platte River Basin Snowpack



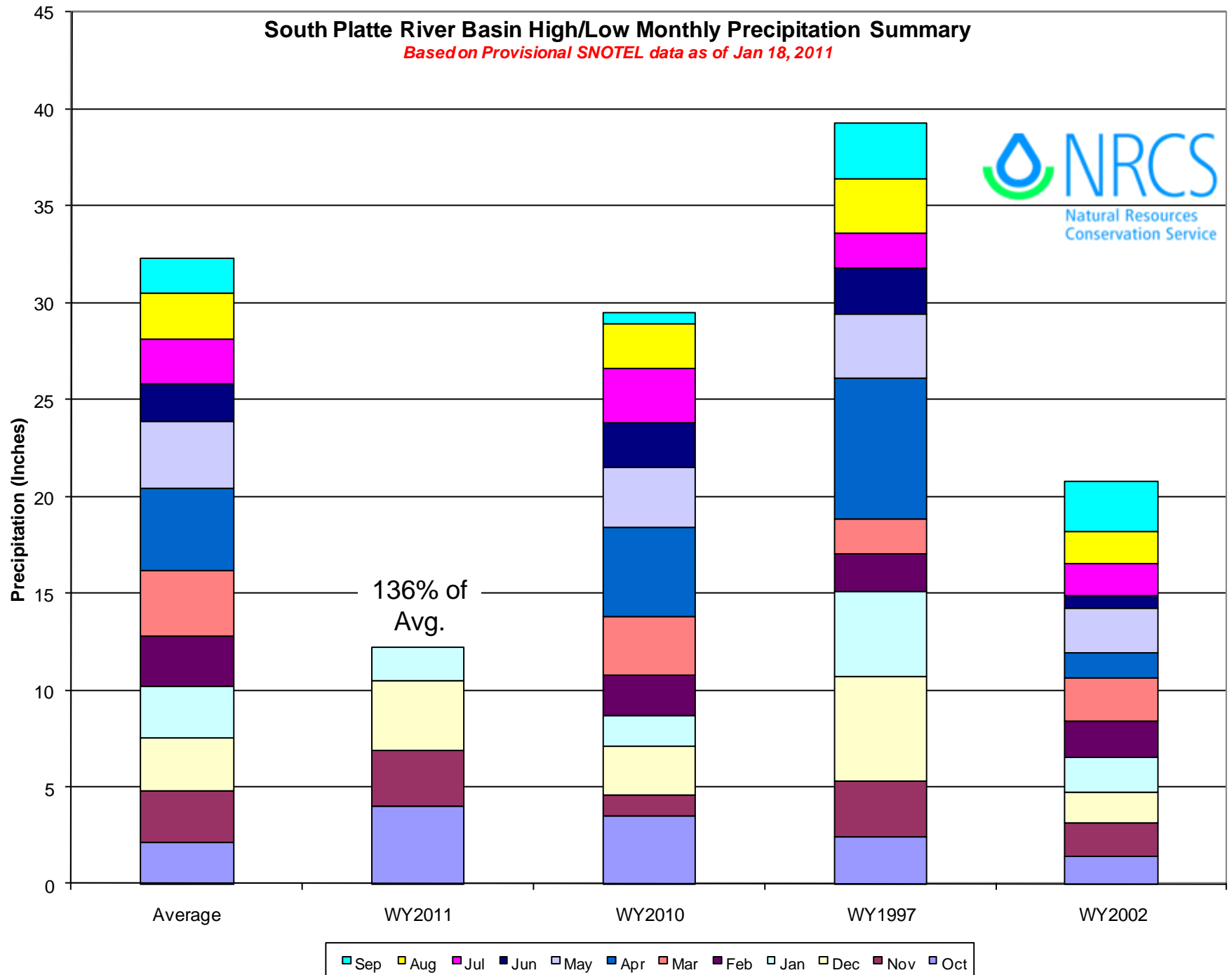
South Platte River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jan 18, 2011



South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 18, 2011

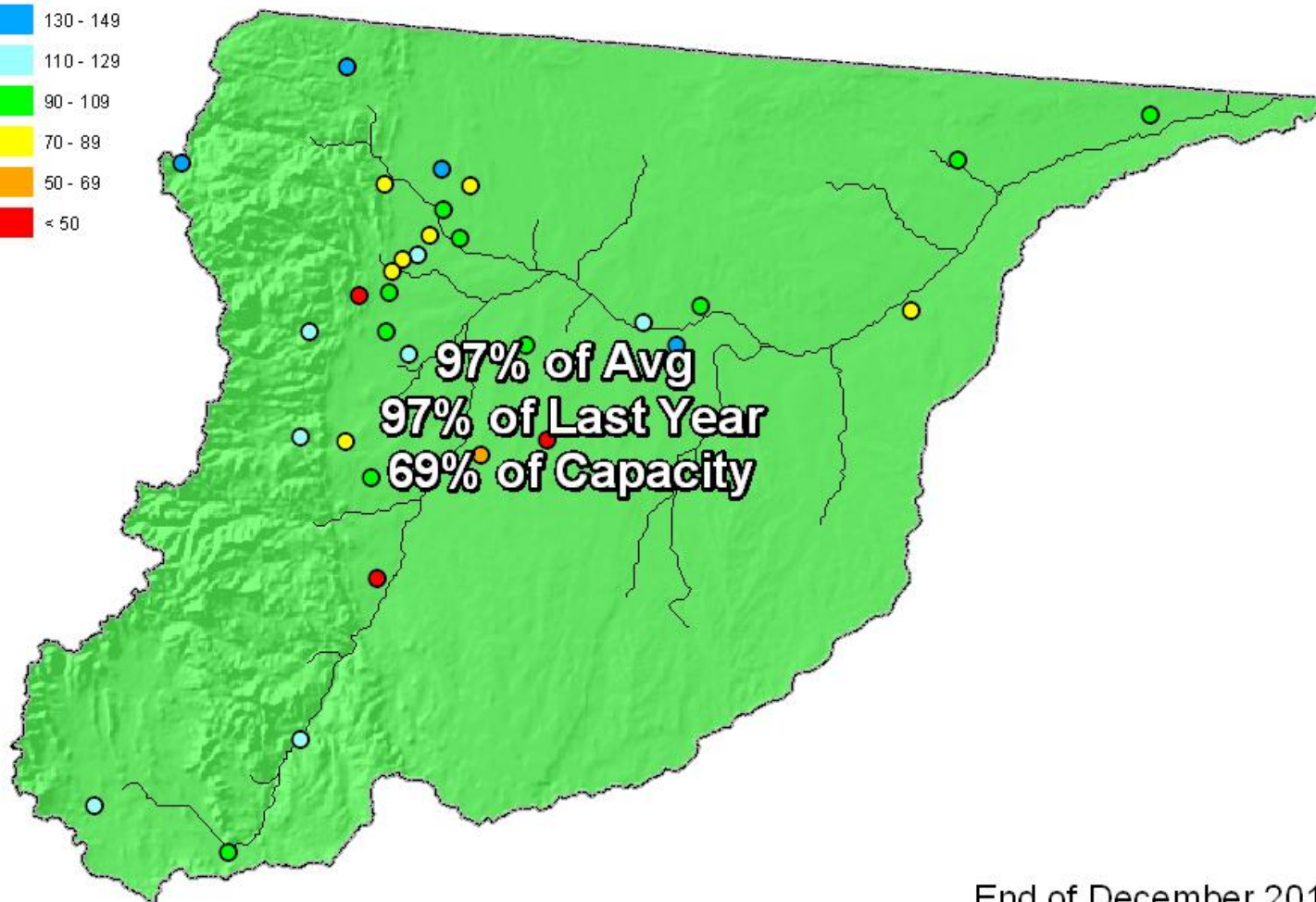


South Platte River Basin Reservoir Storage Map

Percent of Average

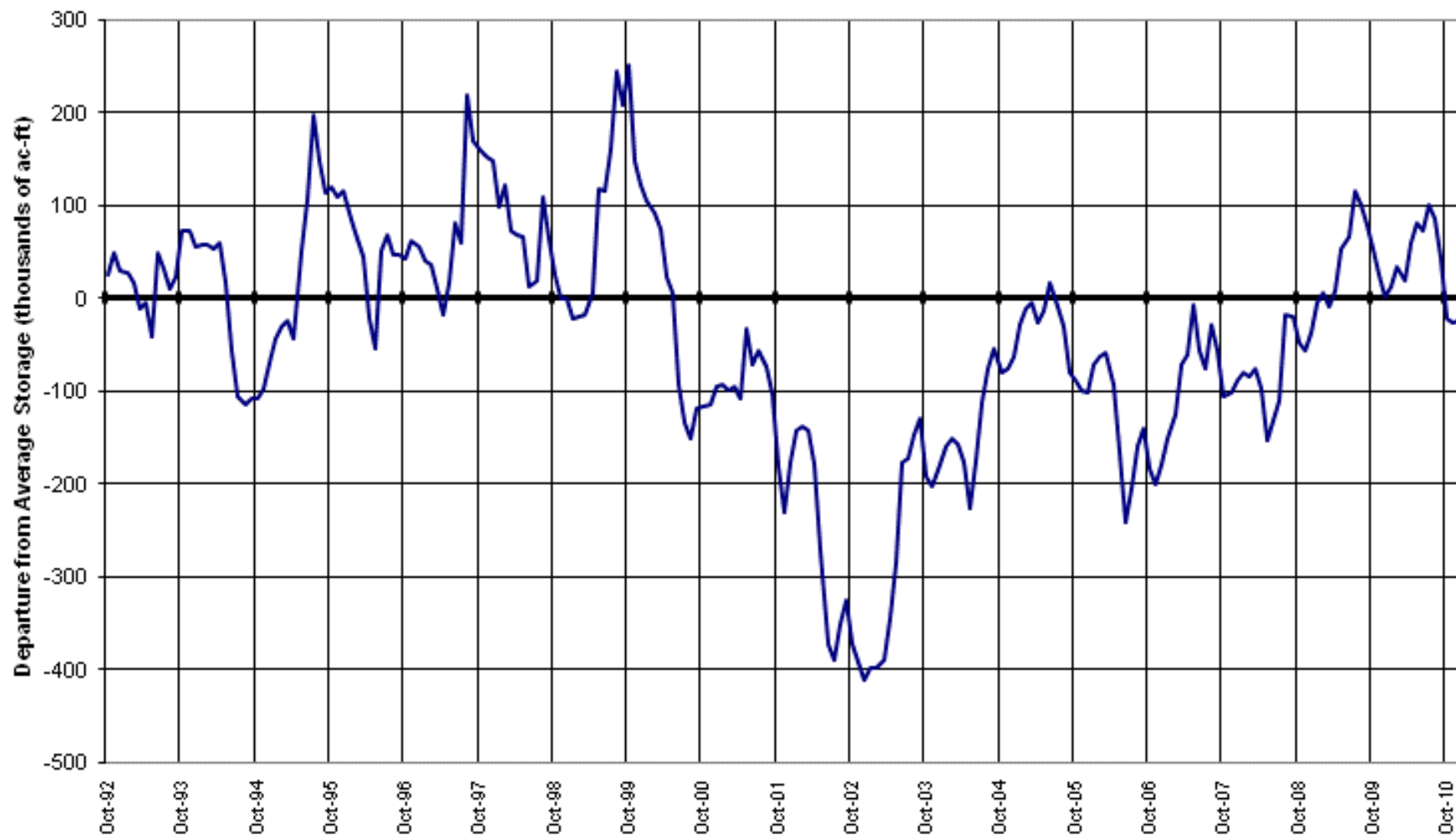


*Provisional Data
Subject to Revision*



End of December 2010

SOUTH PLATTE RIVER BASIN
Reservoir Storage
Departure from Average

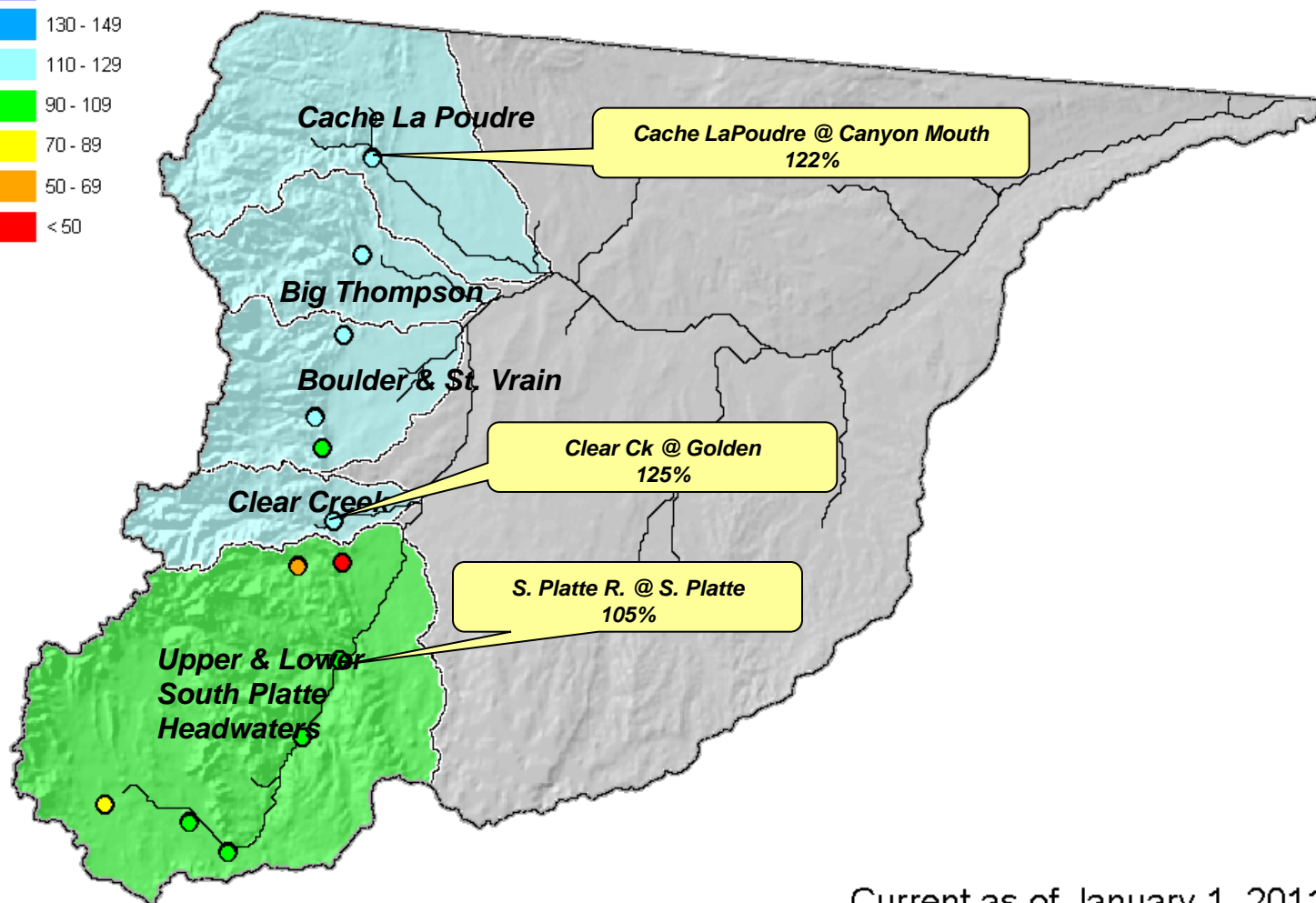


South Platte River Basin Streamflow Forecast Map

Percent of Average

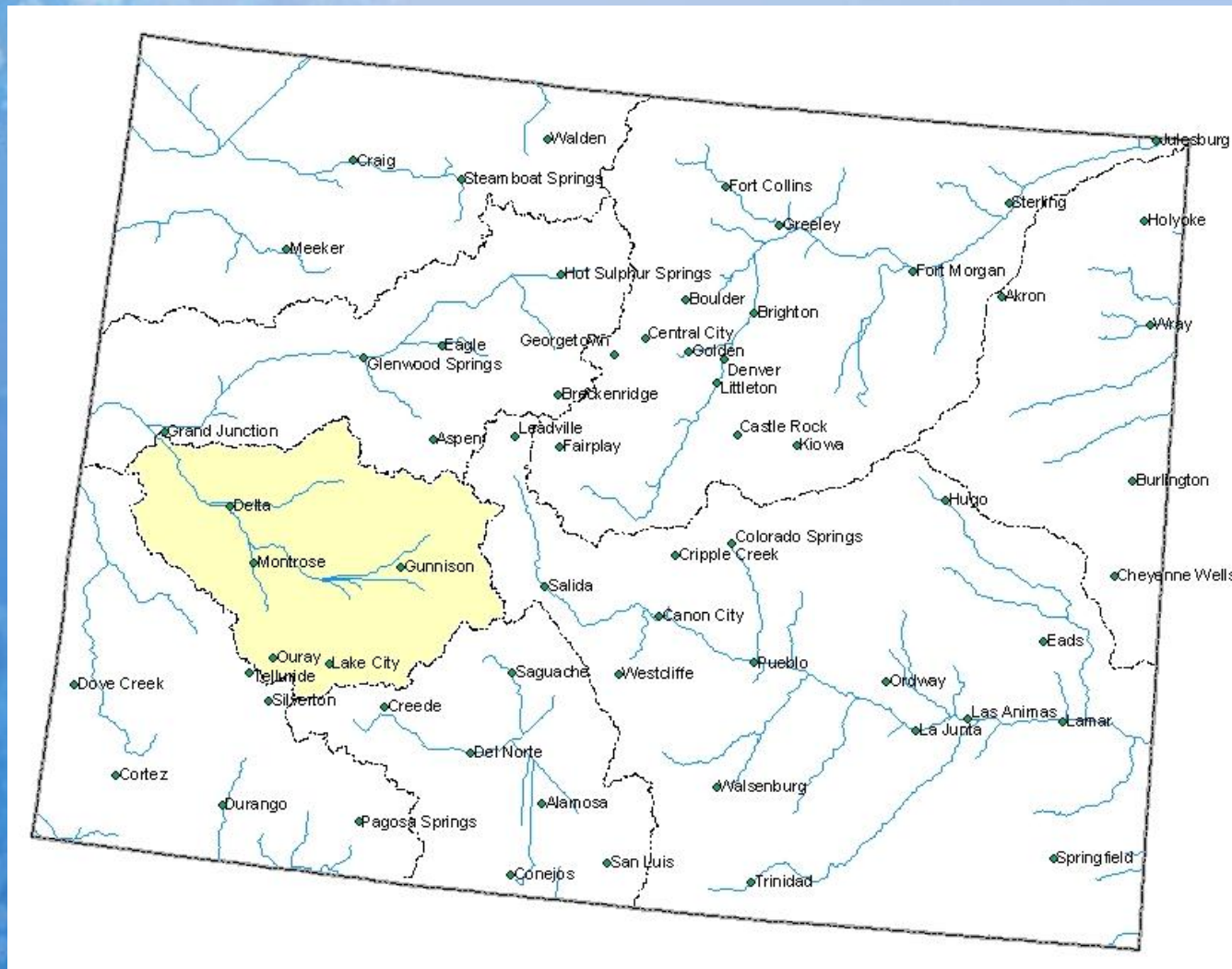


*Provisional Data
Subject to Revision*



Current as of January 1, 2011

Gunnison River Basin Summary

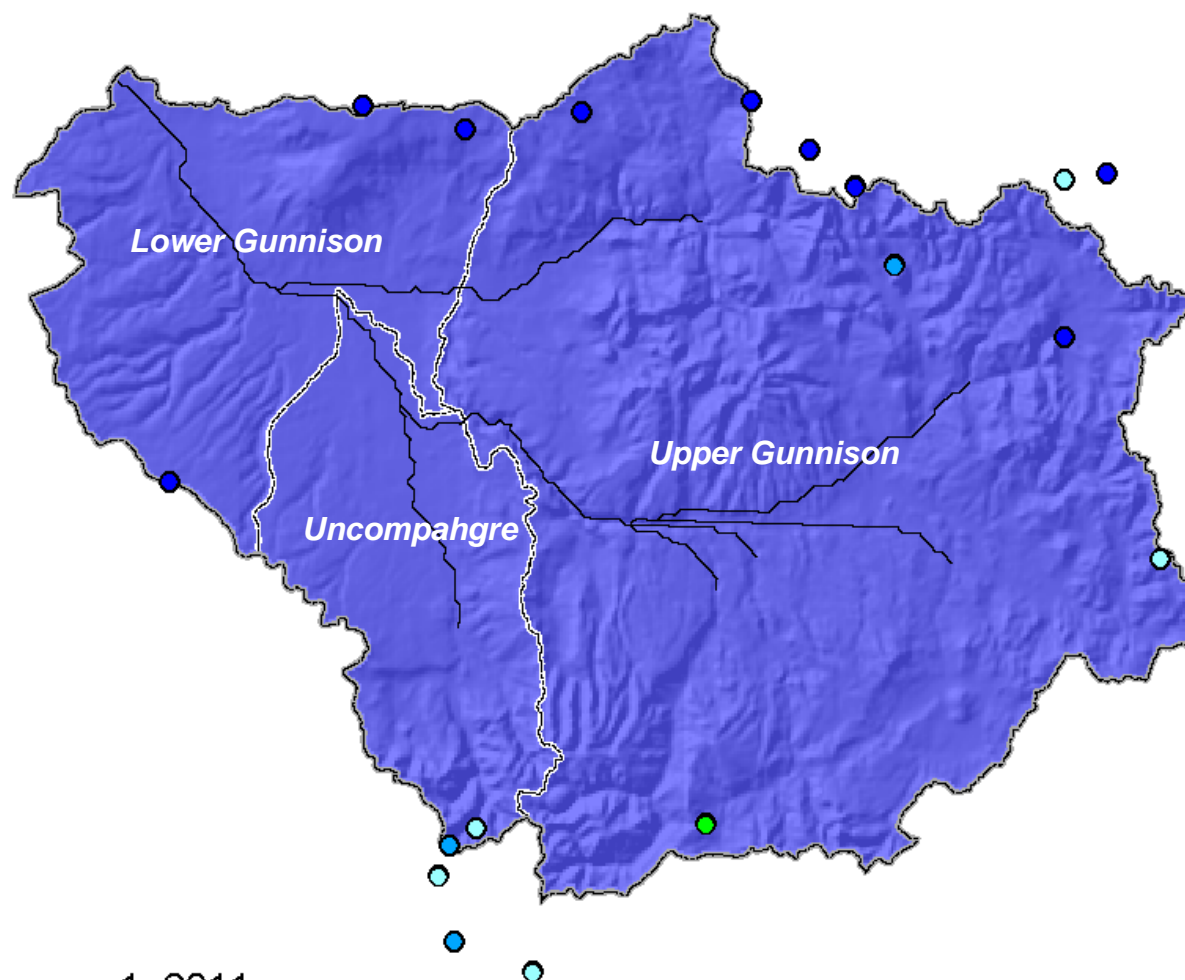


Gunnison River Basin Snowpack Map

Percent of Average

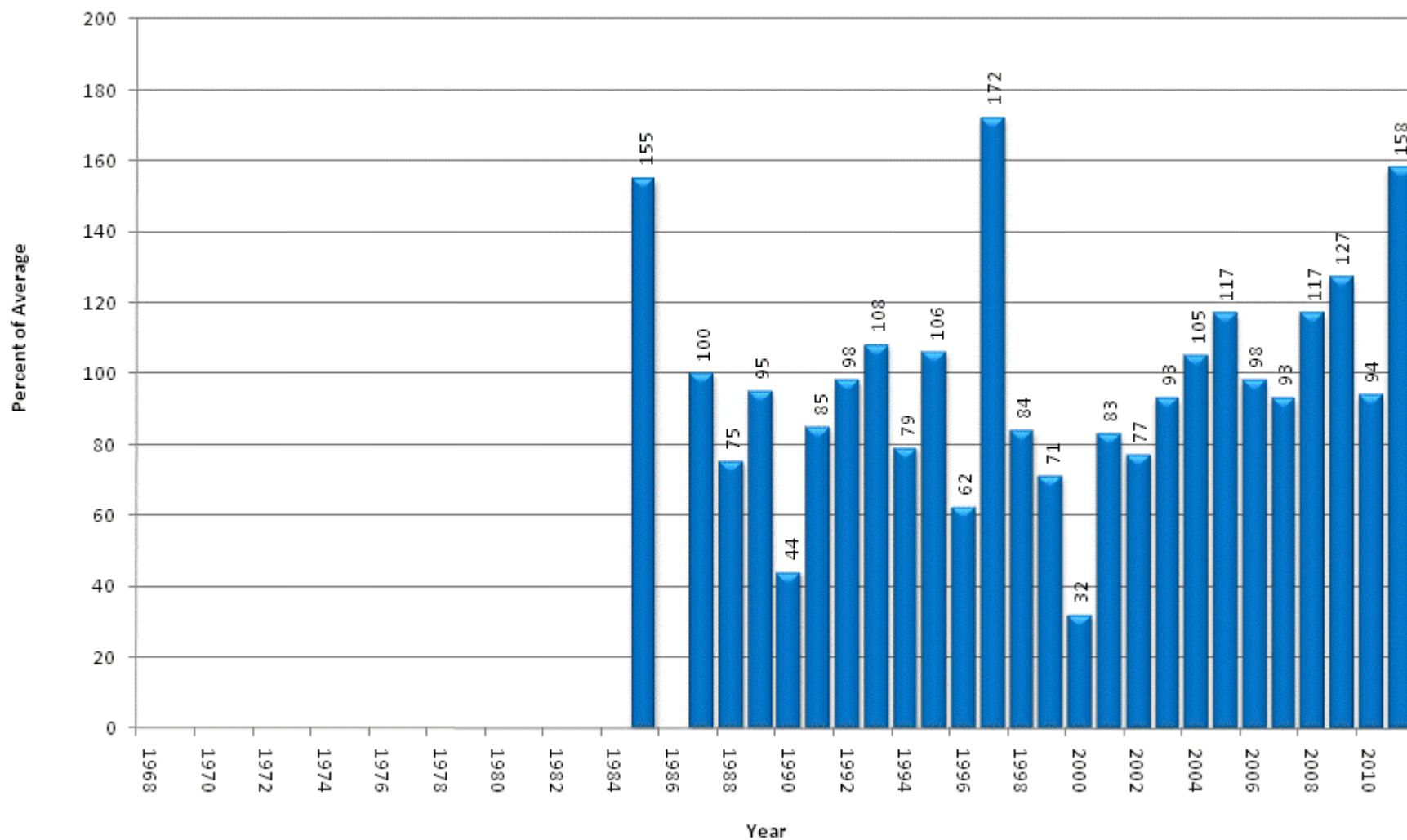


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Subject to Revision*



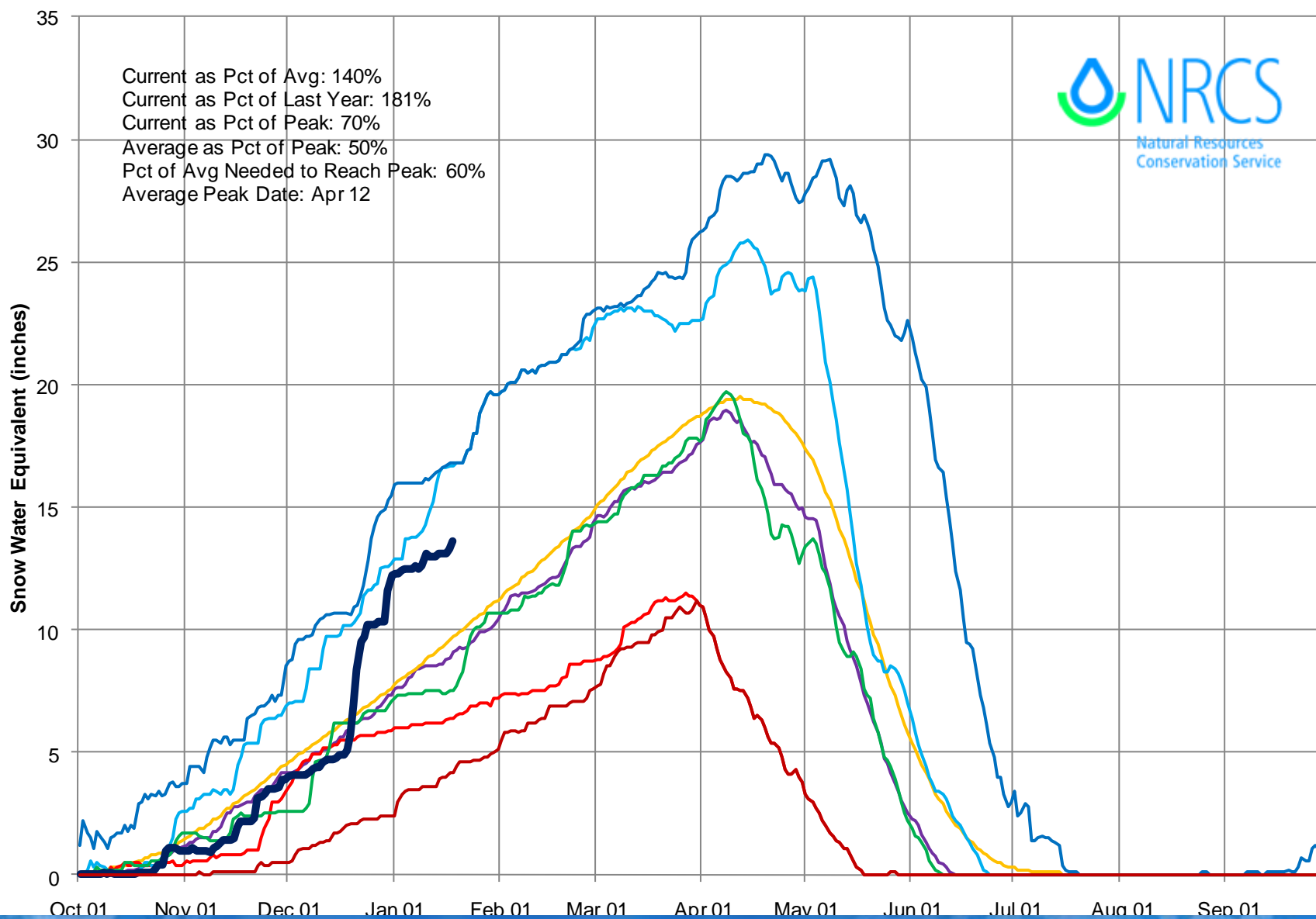
Current as of January 1, 2011

January 1 Total Gunnison River Basin Snowpack



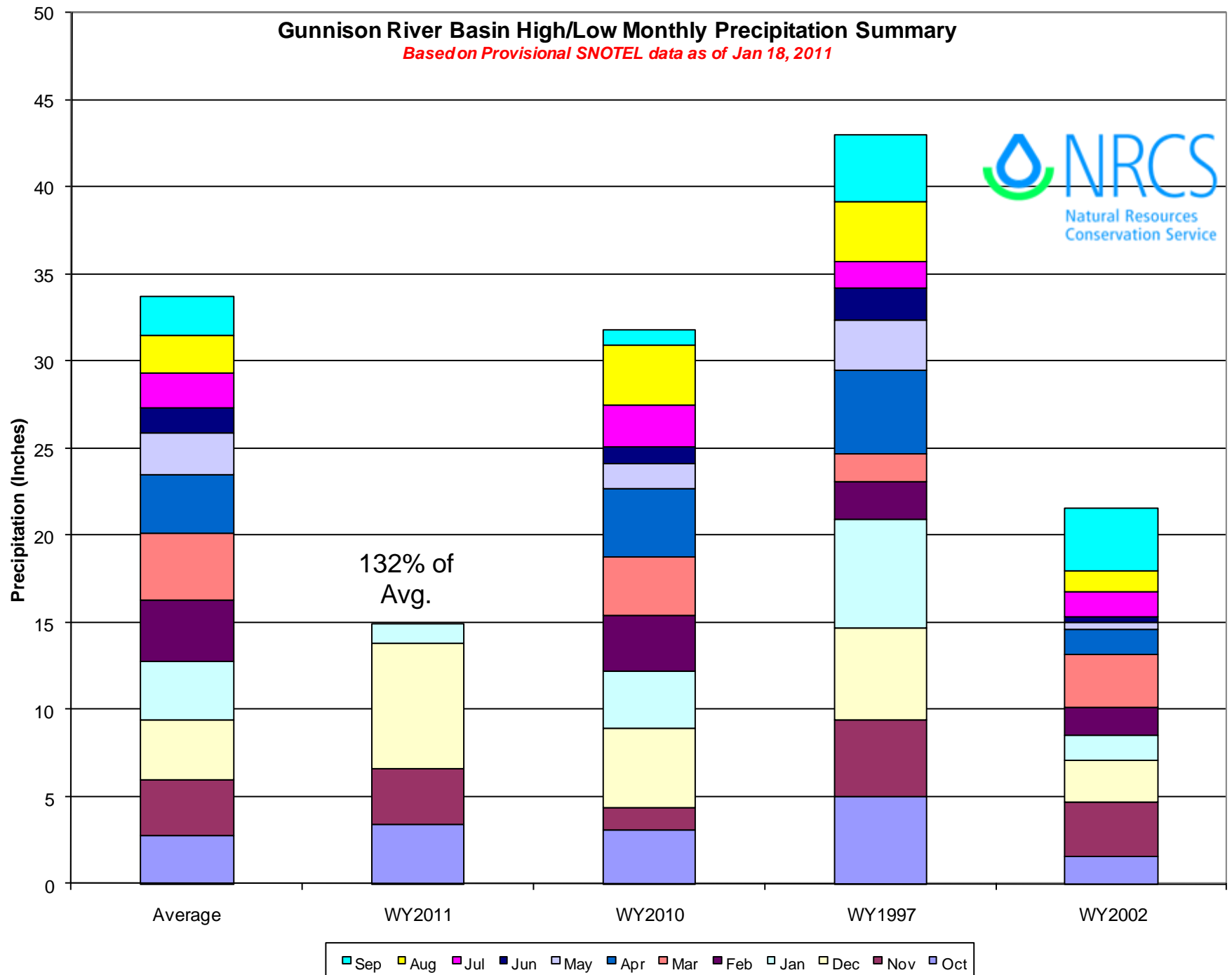
Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jan 18, 2011



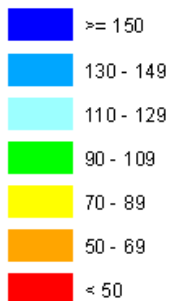
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 18, 2011

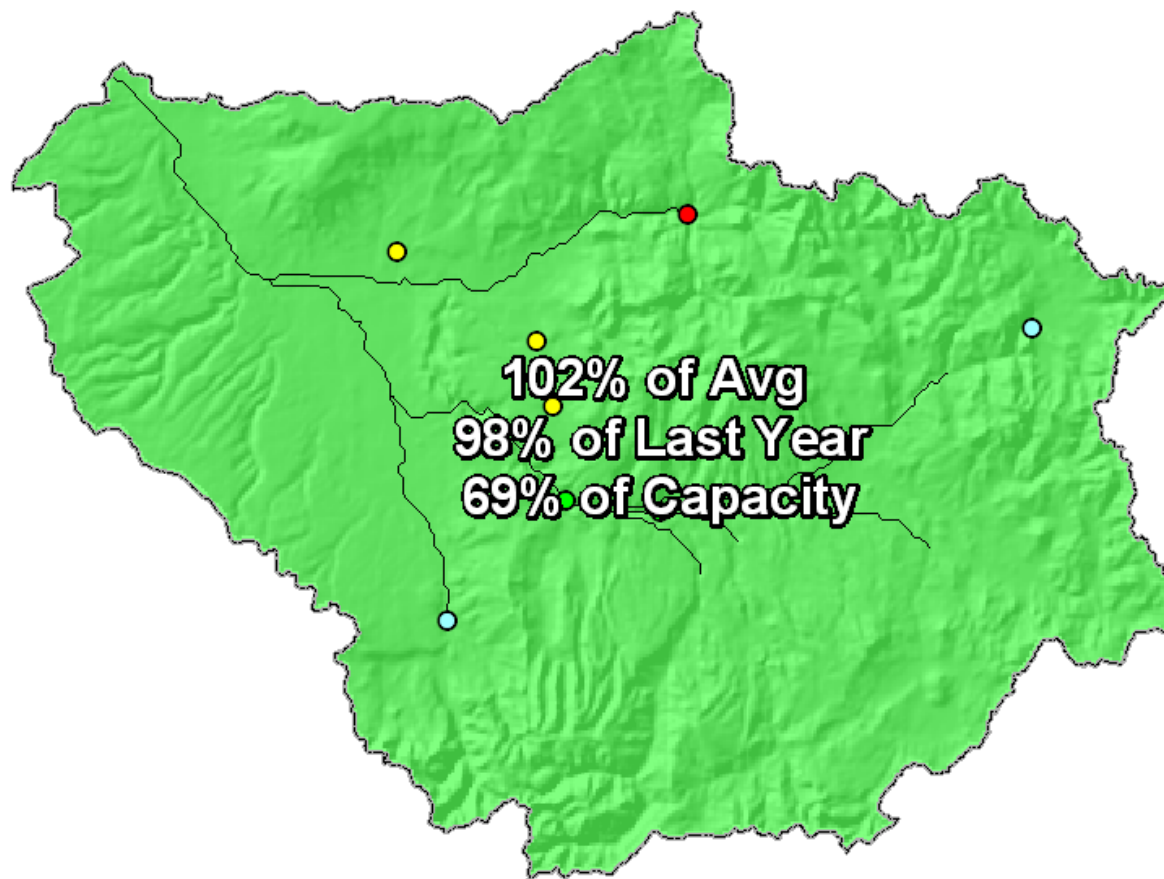


Gunnison River Basin Reservoir Storage Map

Percent of Average

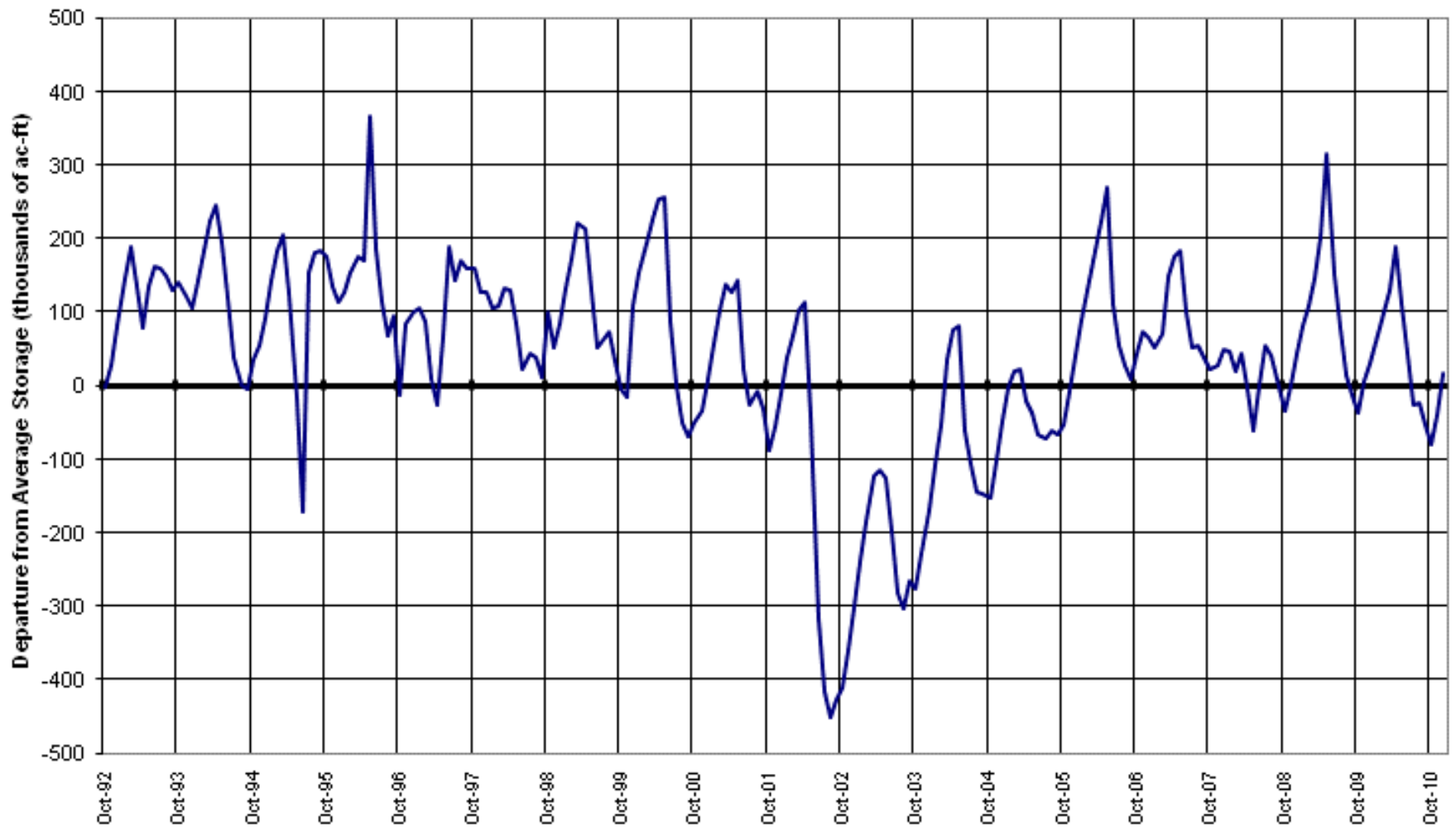


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Subject to Revision*



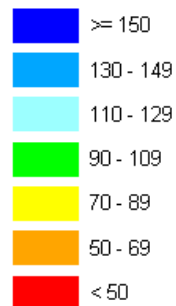
End of December 2010

GUNNISON RIVER BASIN
Reservoir Storage
Departure from Average

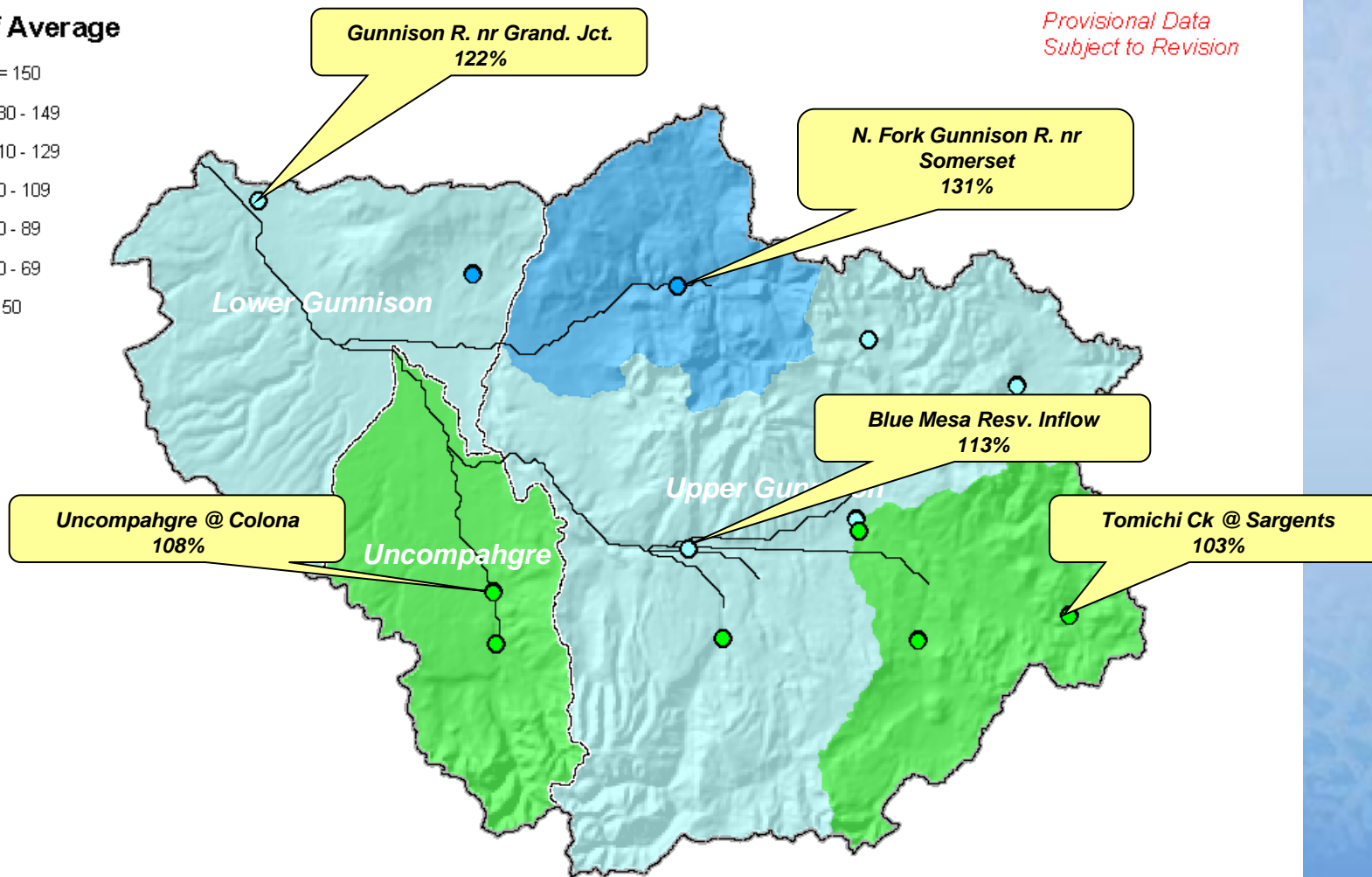


Gunnison River Basin Streamflow Forecast Map

Percent of Average

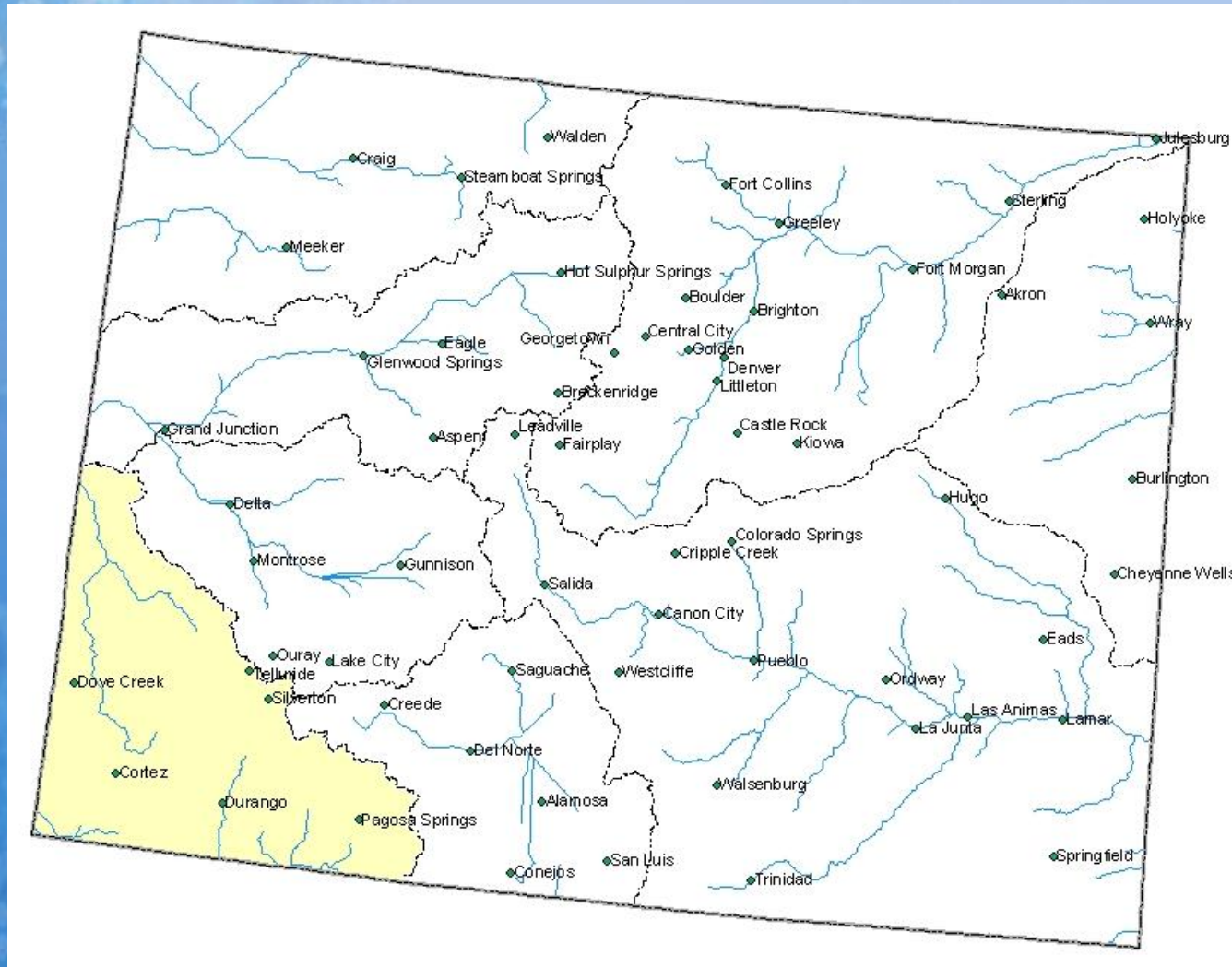


*Provisional Data
Subject to Revision*



Current as of January 1, 2011

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

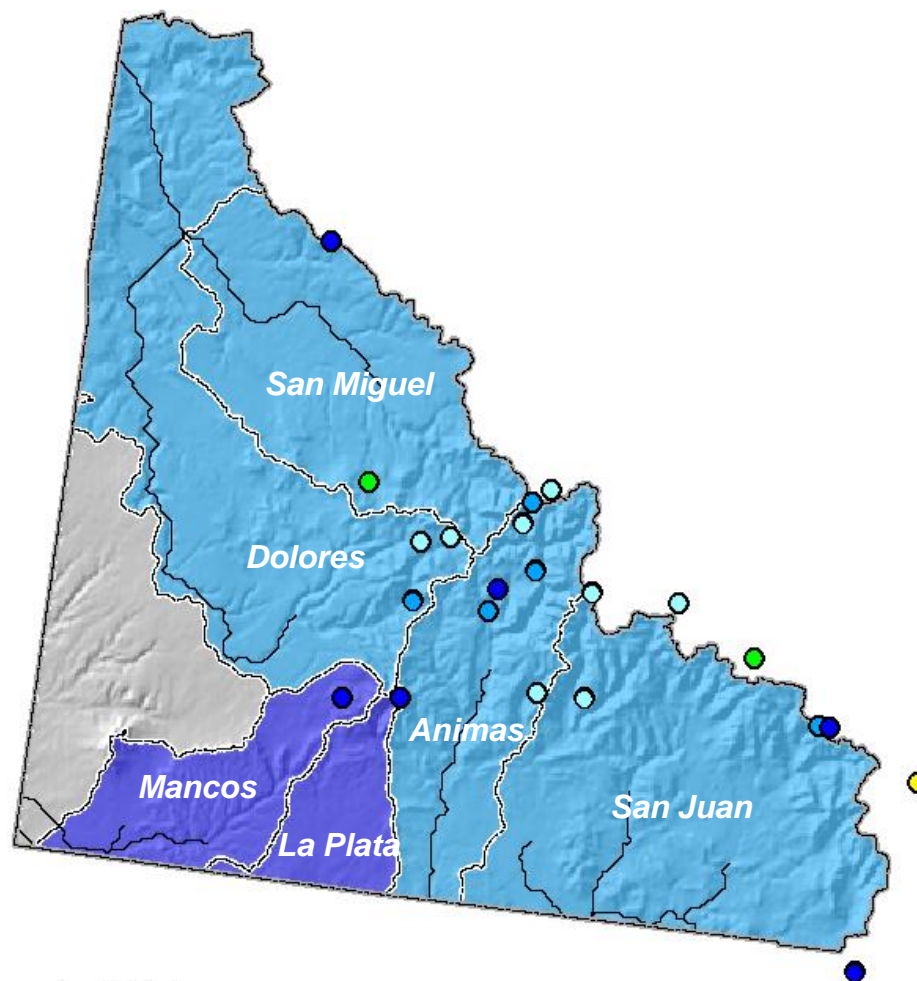


San Miguel, Dolores, Animas and San Juan River Basins Snowpack Map

Percent of Average

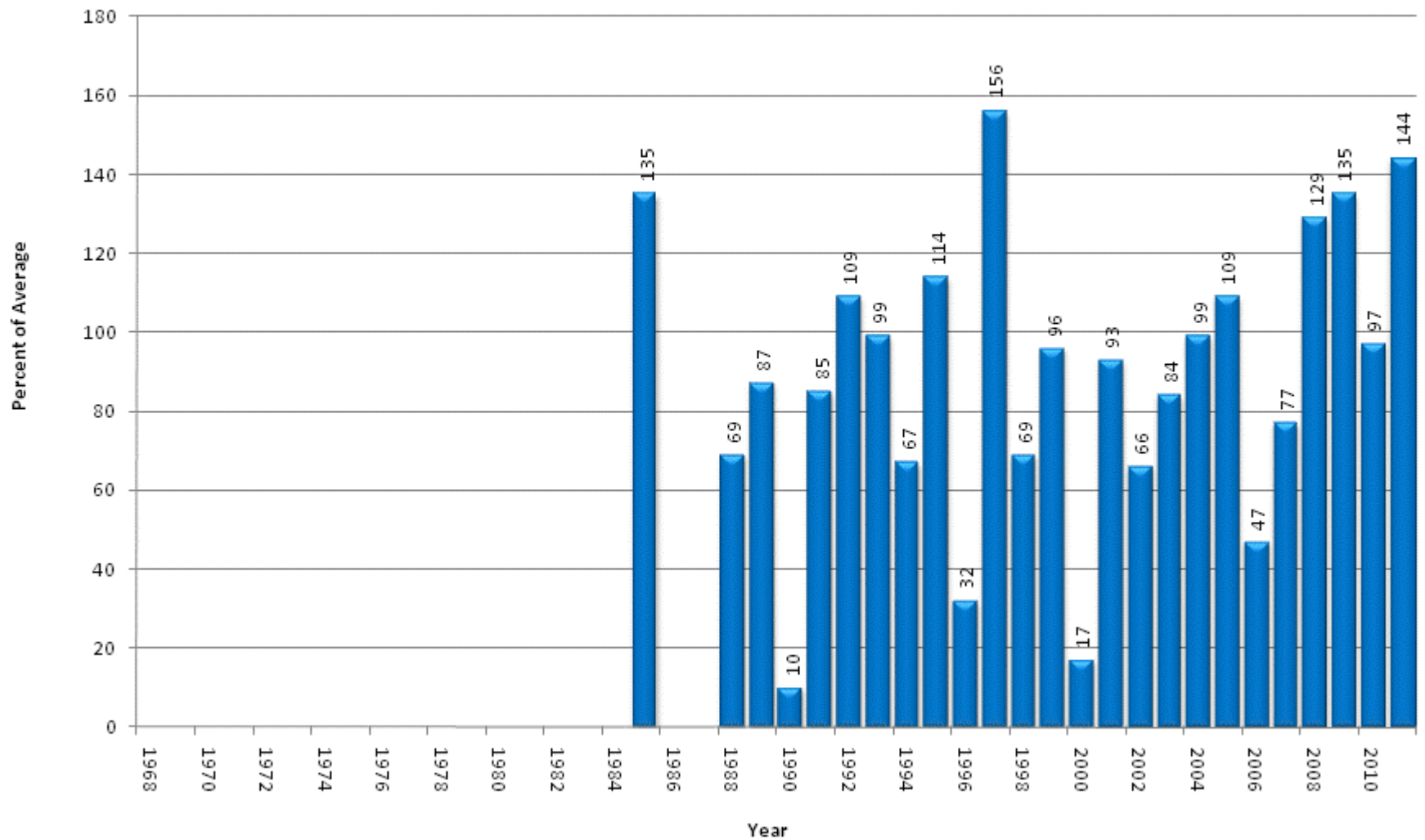


*Provisional Data
Subject to Revision*



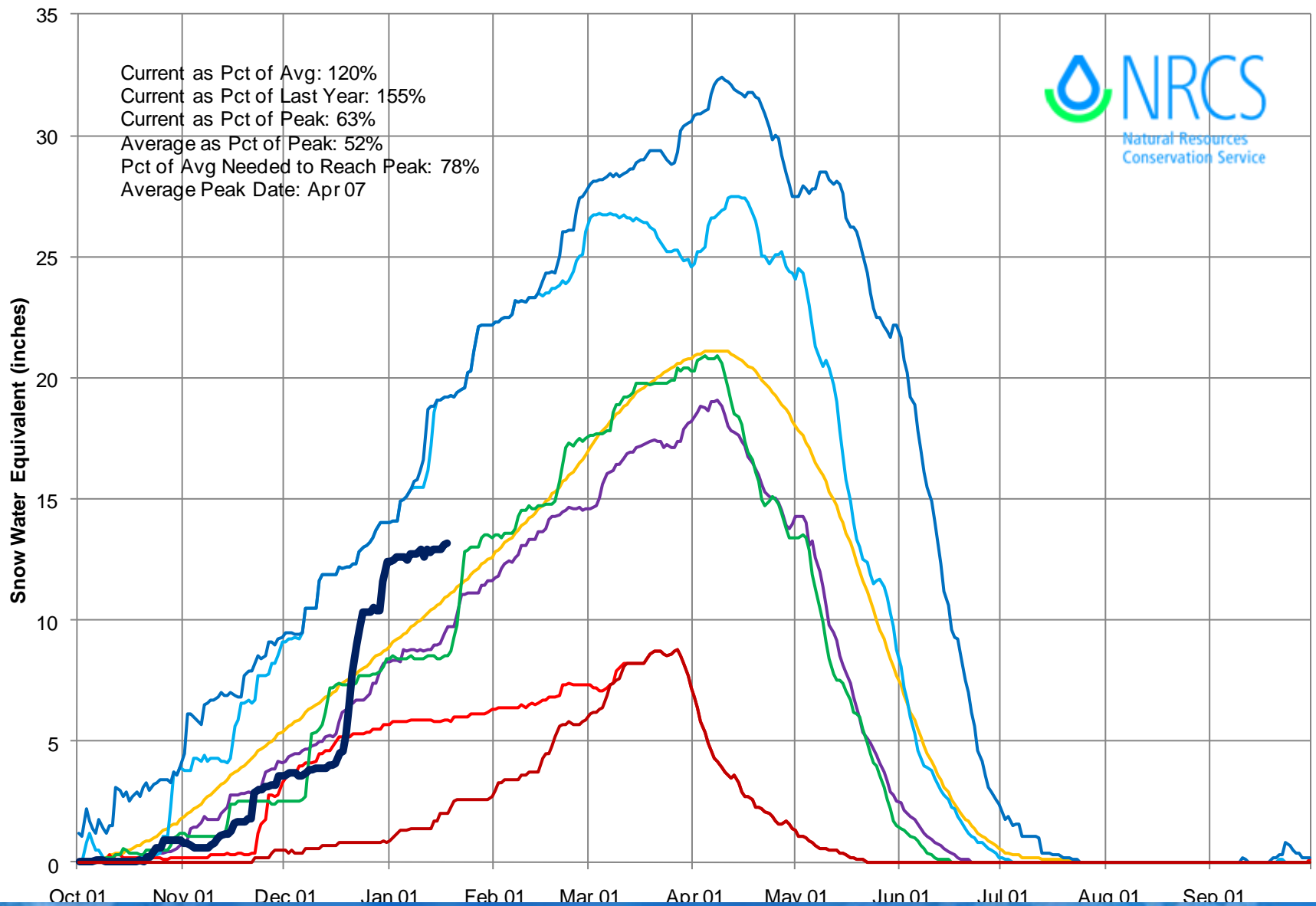
Current as of January 1, 2011

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



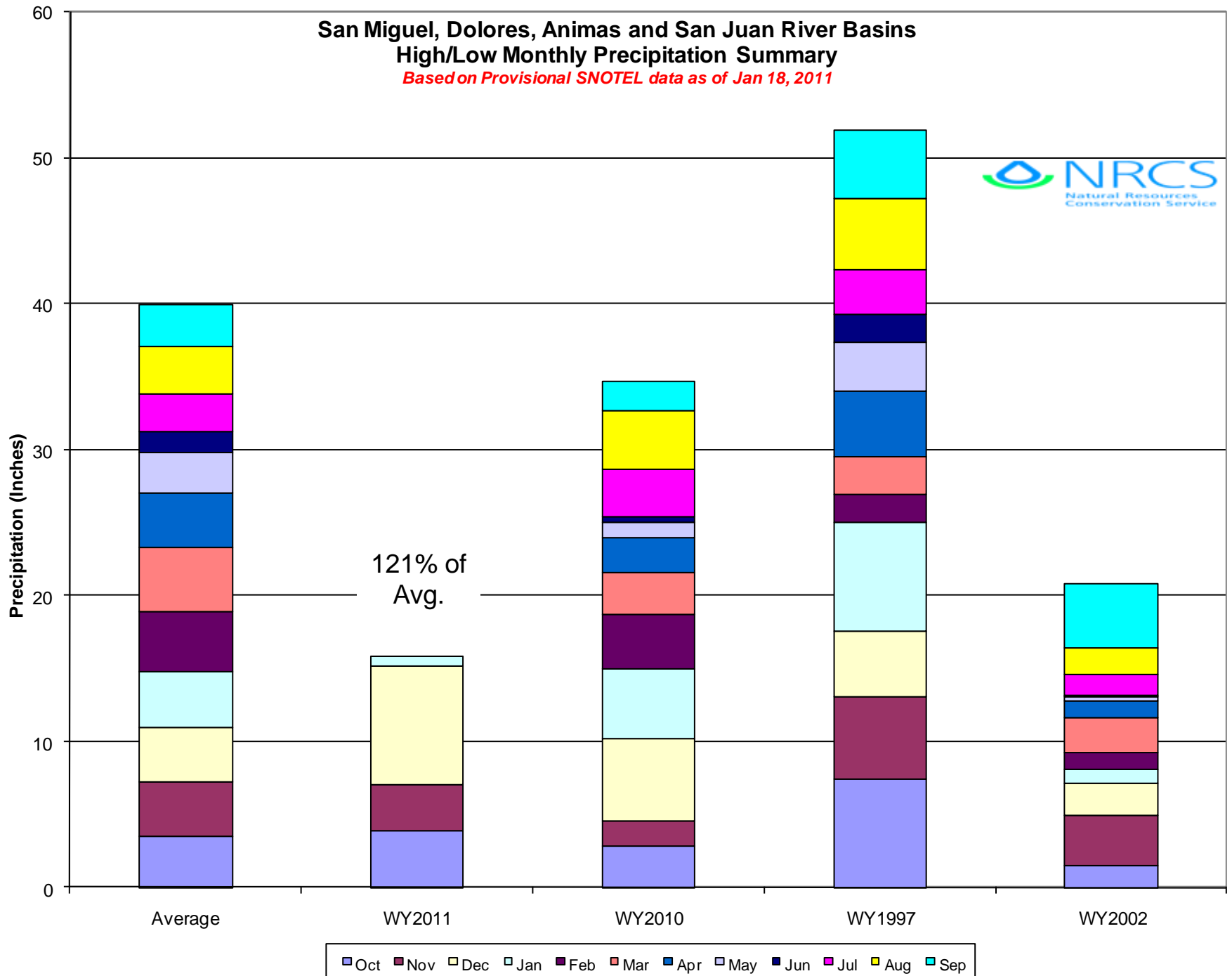
San Miguel, Dolores, Animas & San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jan 18, 2011



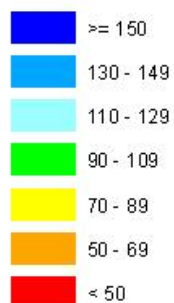
San Miguel, Dolores, Animas and San Juan River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 18, 2011

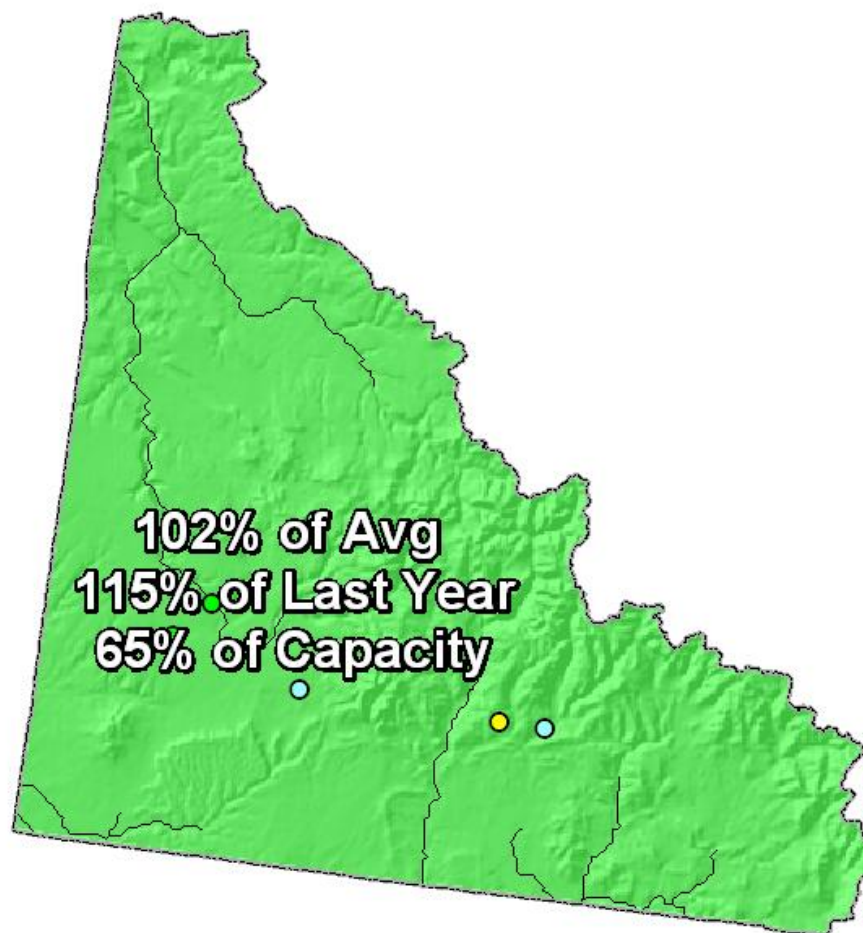


San Miguel, Dolores, Animas and San Juan River Basins Reservoir Storage Map

Percent of Average

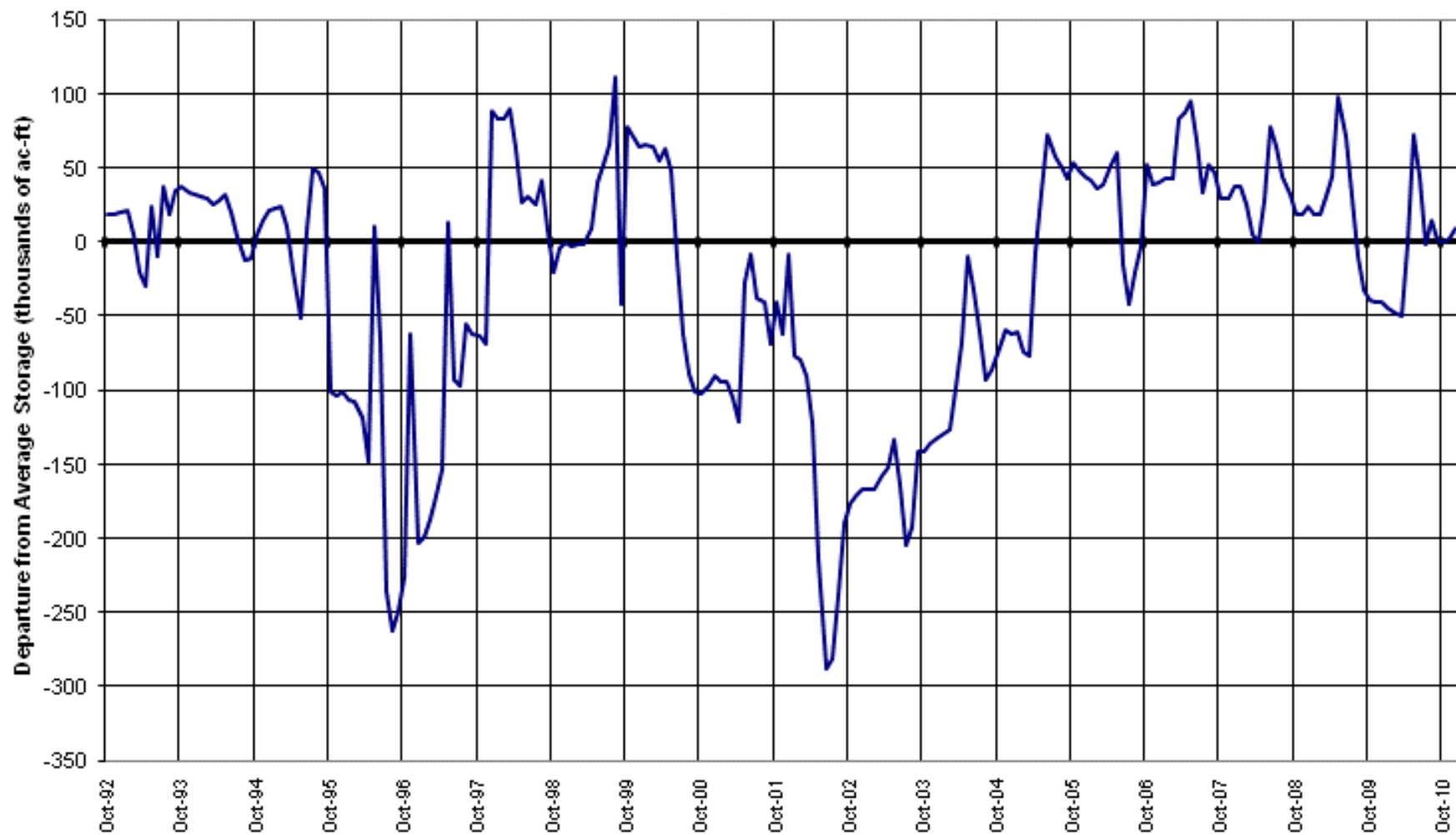


*Provisional Data
Subject to Revision*



End of December 2010

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

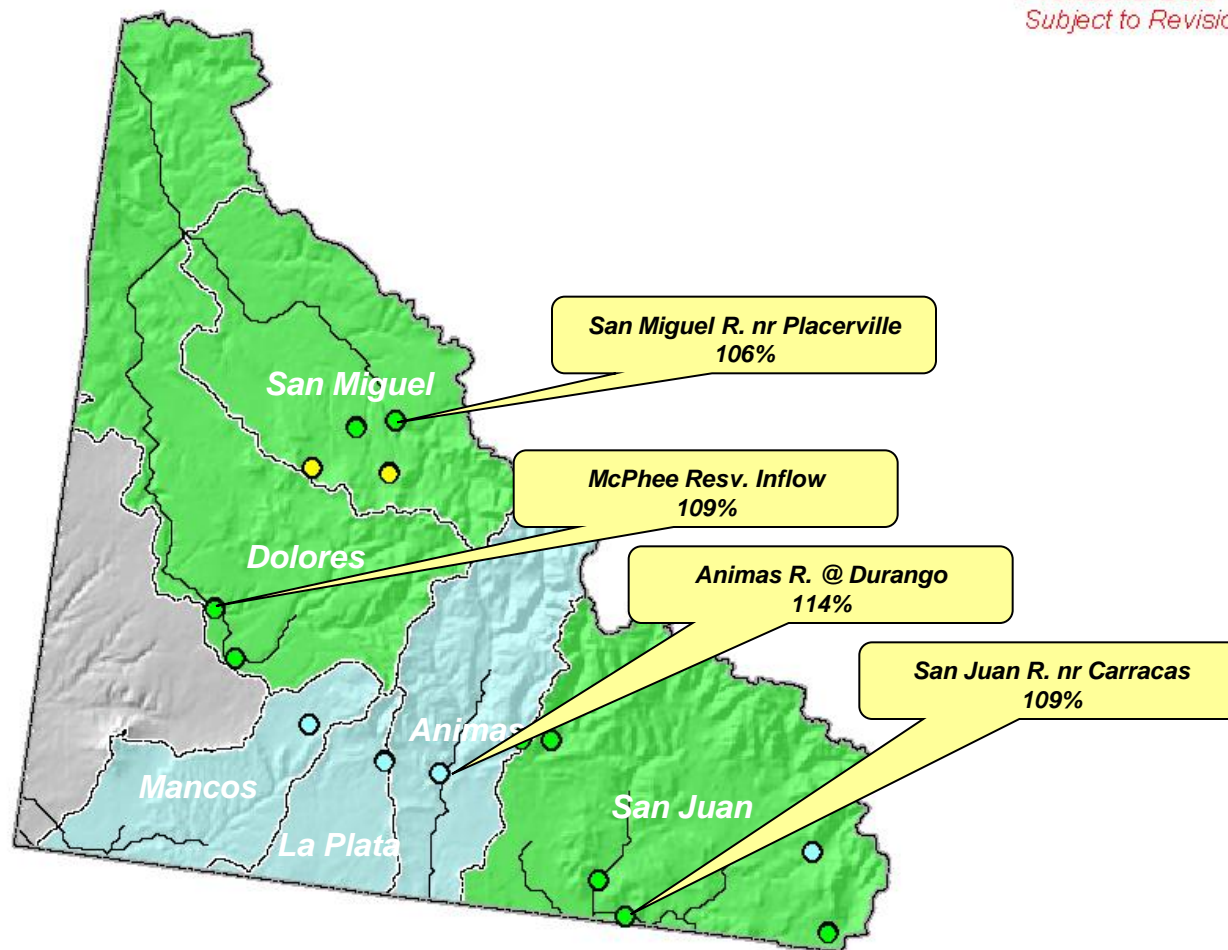


San Miguel, Dolores, Animas and San Juan River Basins Streamflow Forecast Map

Percent of Average

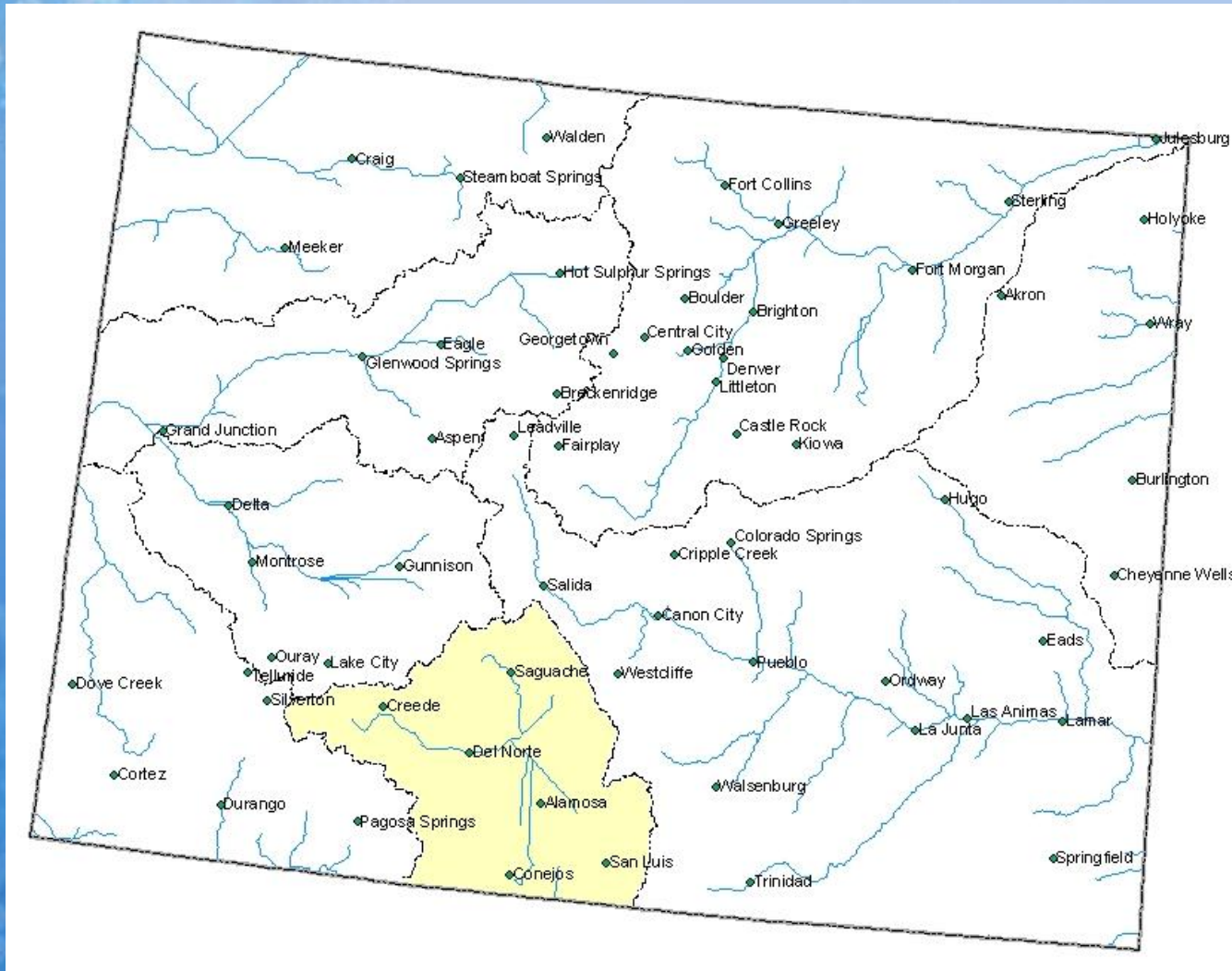


*Provisional Data
Subject to Revision*



Current as of January 1, 2011

Upper Rio Grande Basin Summary

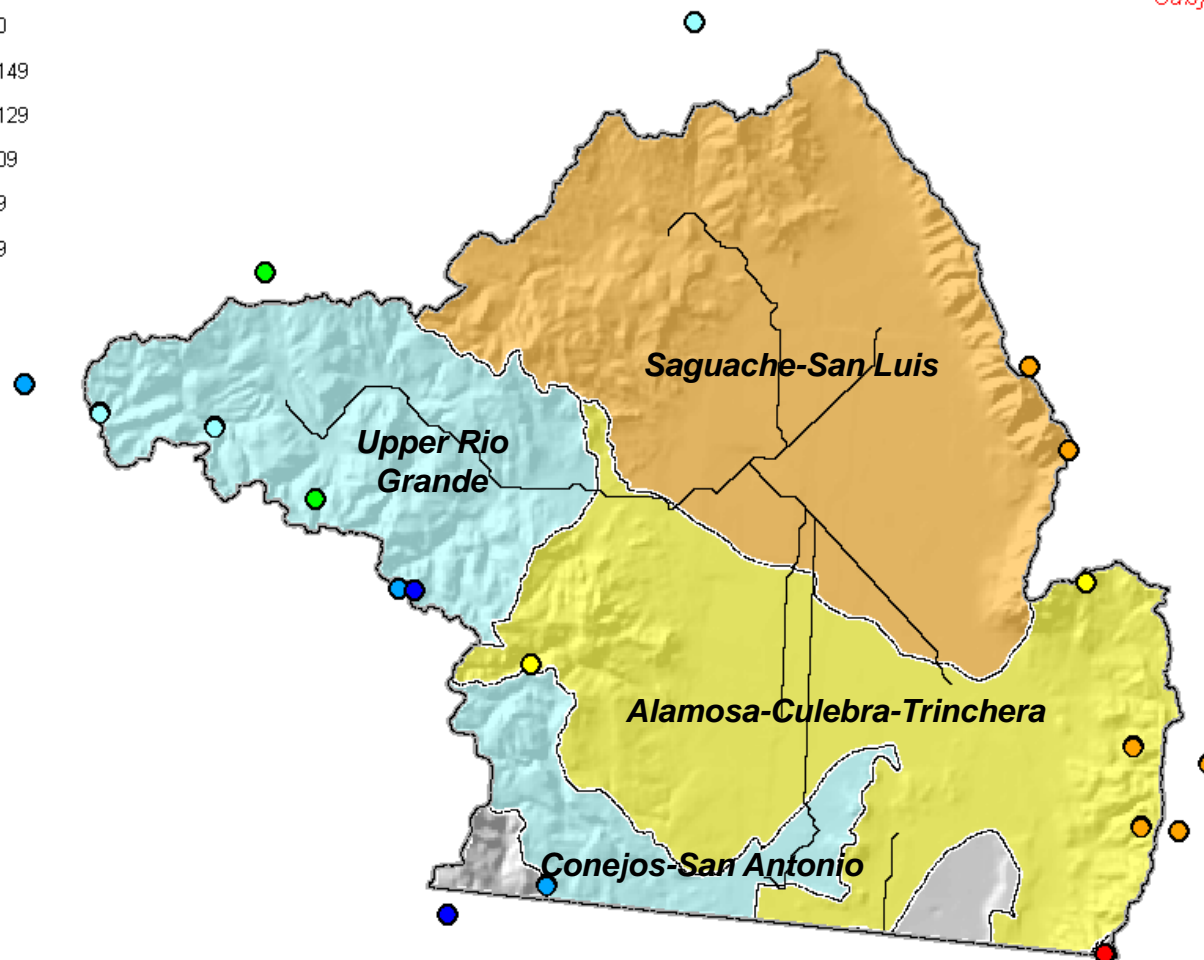


Upper Rio Grande Basin Snowpack Map

Percent of Average

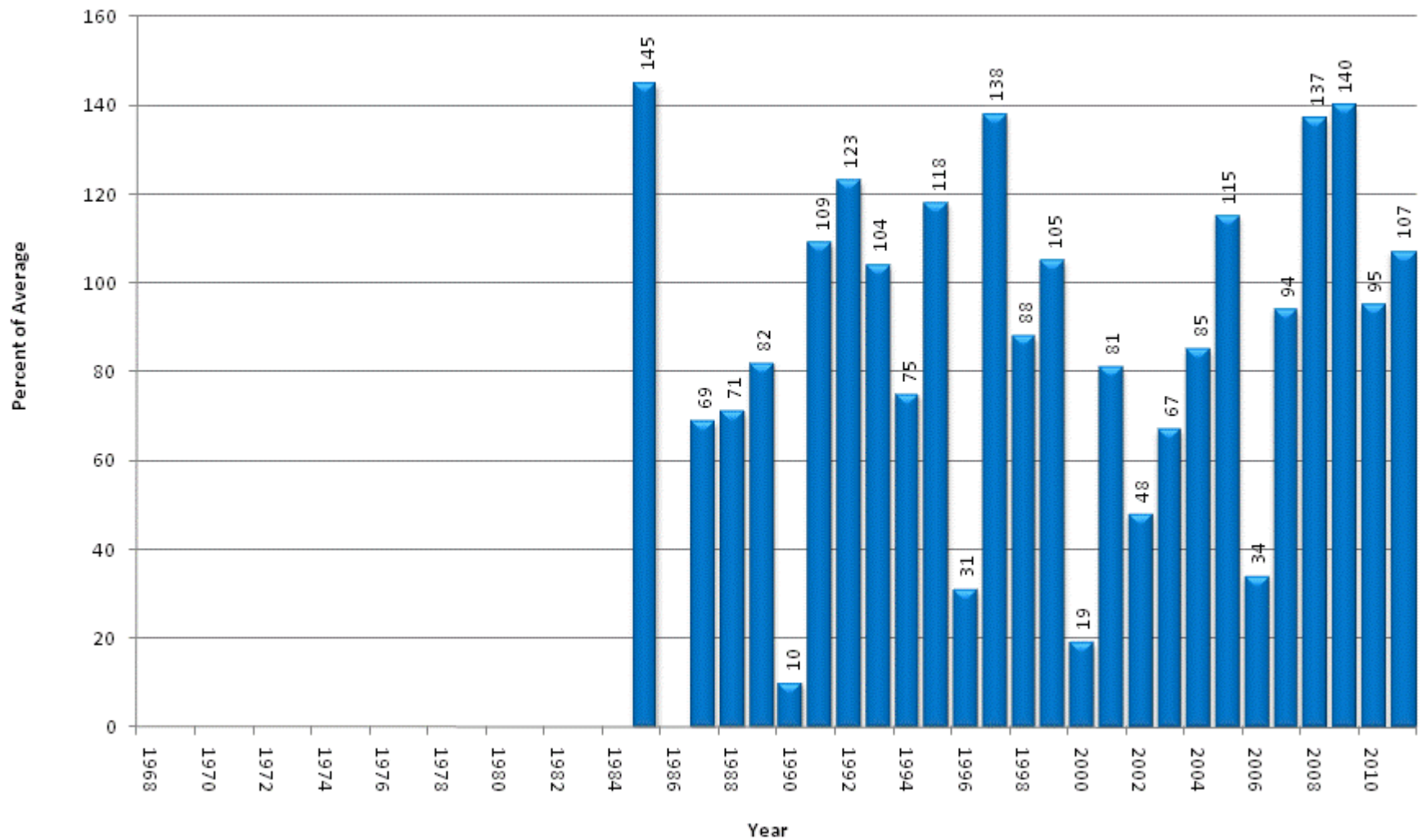


*Provisional Data
Subject to Revision*



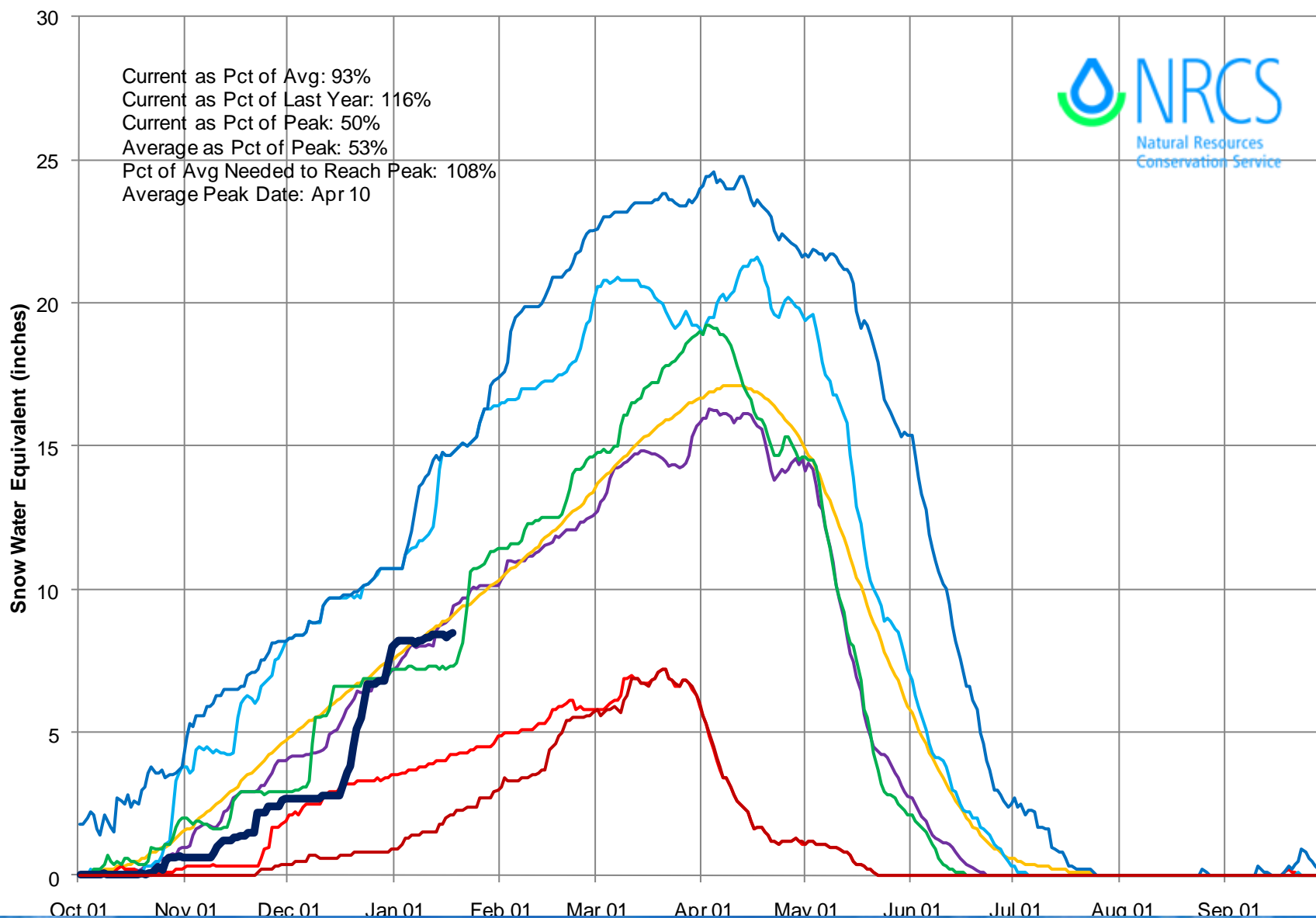
Current as of January 1, 2011

January 1 Total Upper Rio Grande Basin Snowpack



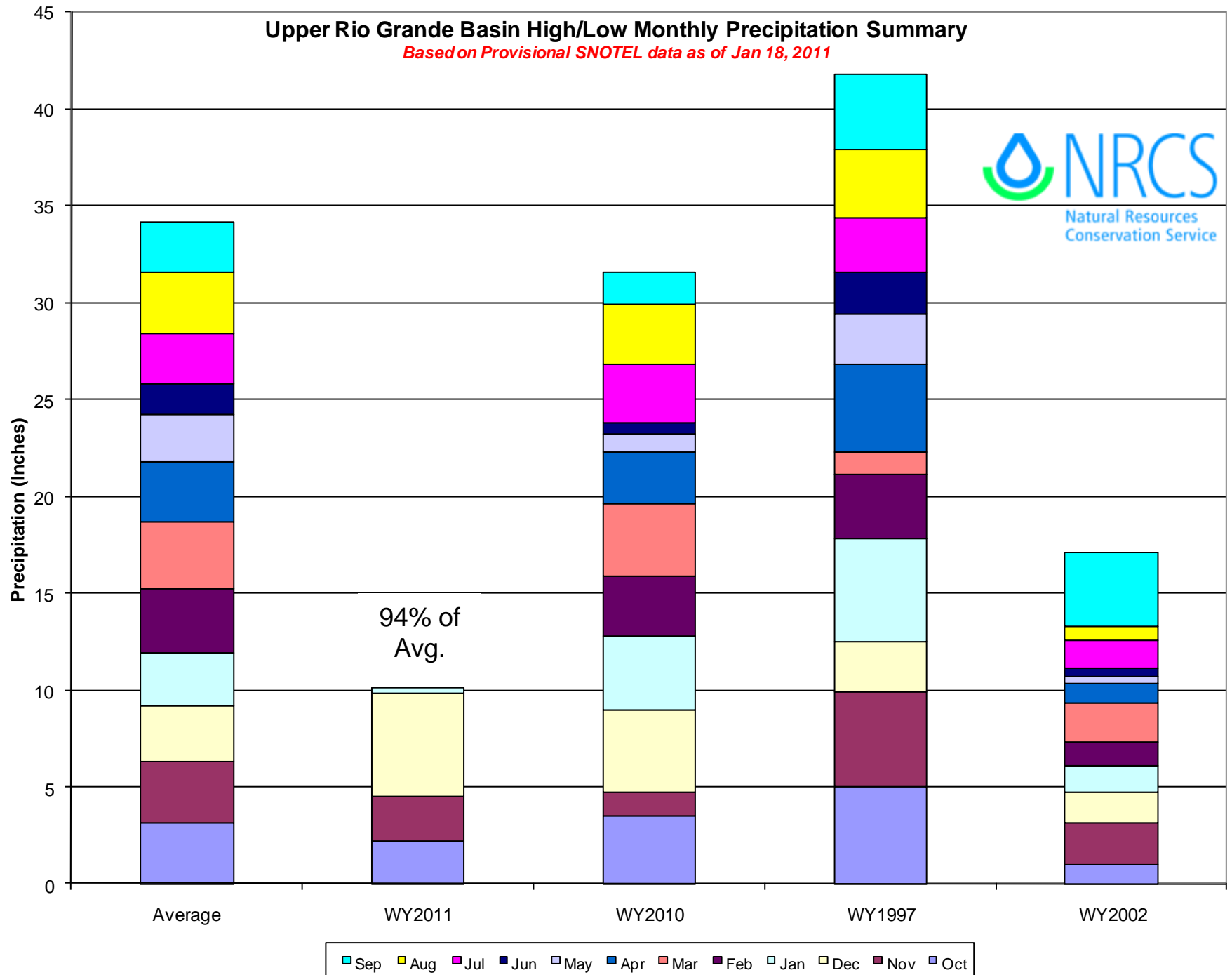
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jan 18, 2011



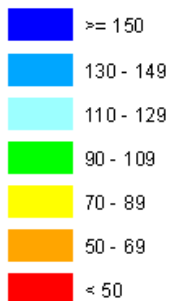
Upper Rio Grande Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 18, 2011

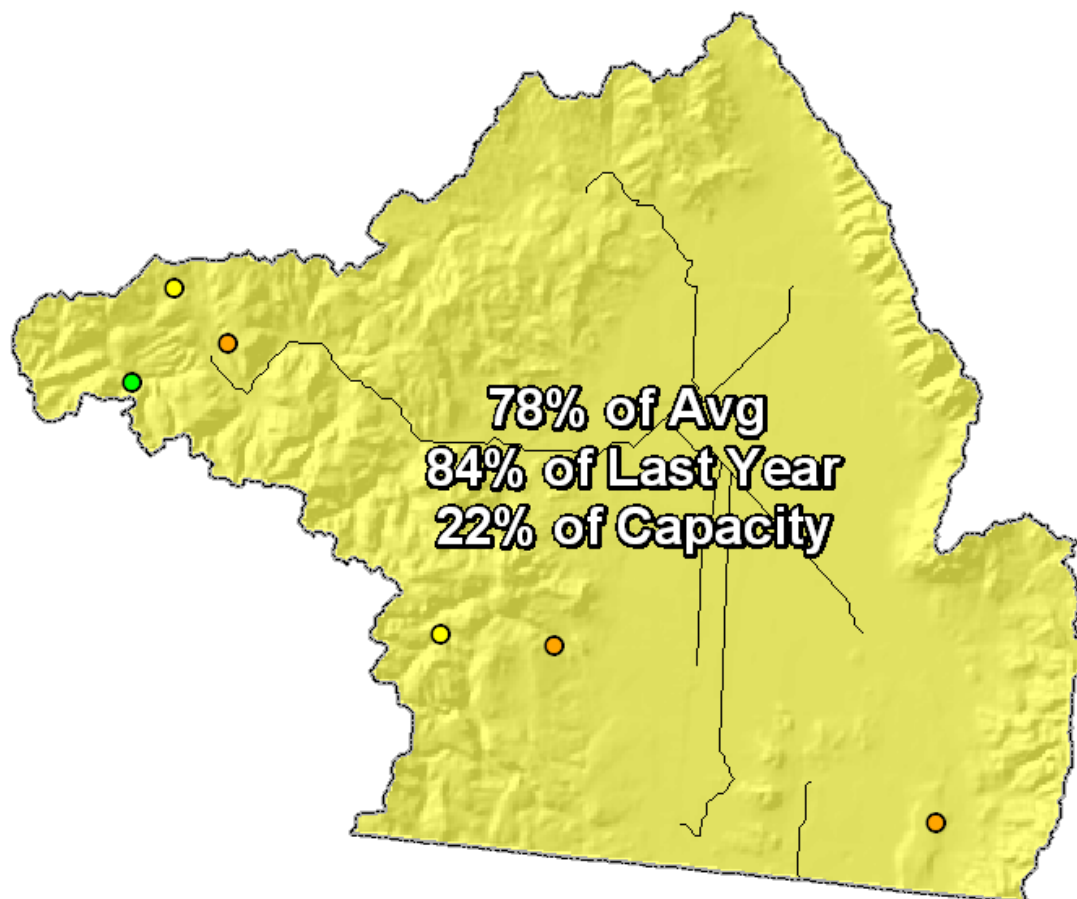


Upper Rio Grande Basin Reservoir Storage Map

Percent of Average

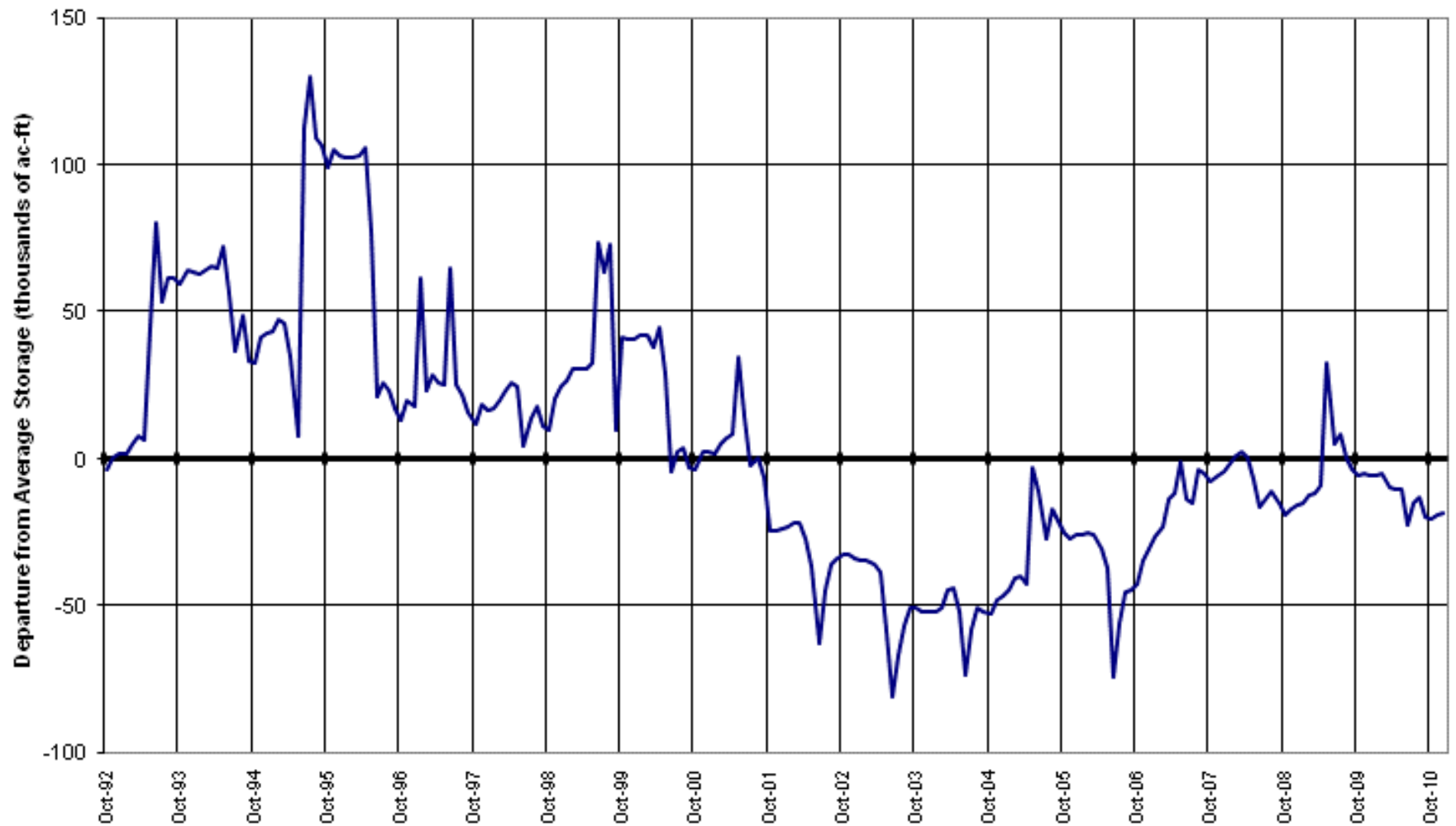


*Provisional Data
Subject to Revision*



End of December 2010

UPPER RIO GRANDE BASIN
Reservoir Storage
Departure from Average

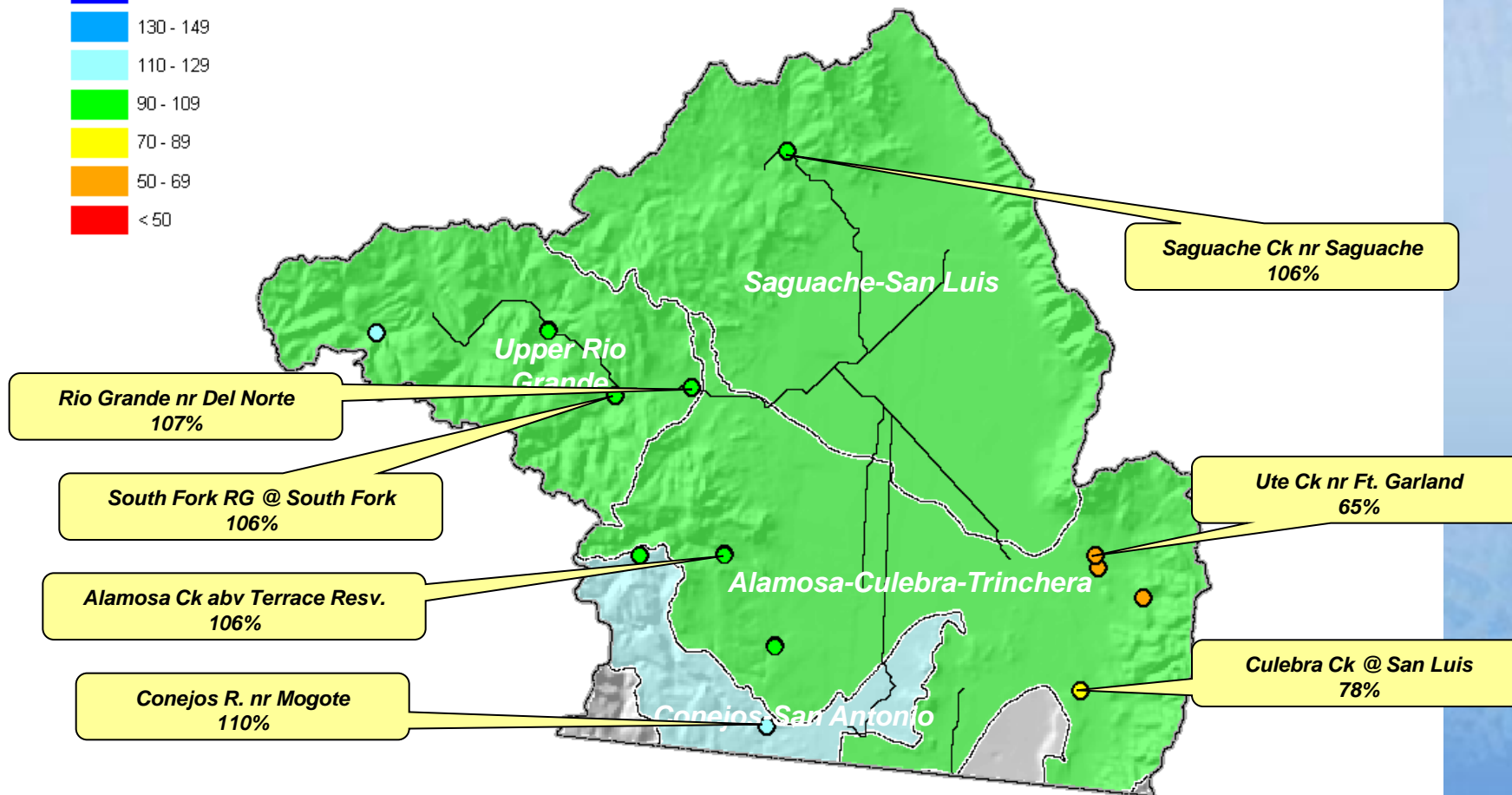


Upper Rio Grande Basin Streamflow Forecast Map

Percent of Average

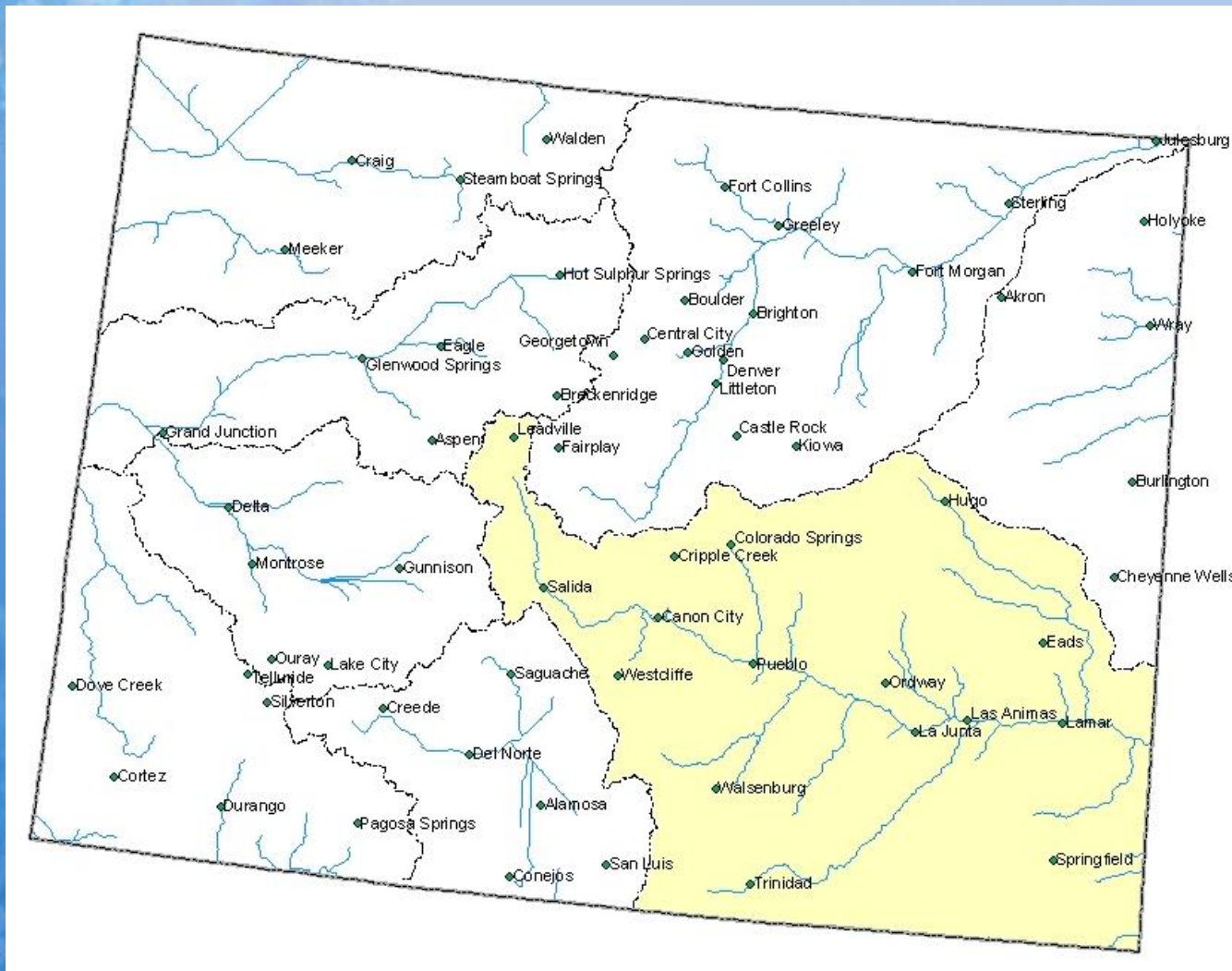


*Provisional Data
Subject to Revision*



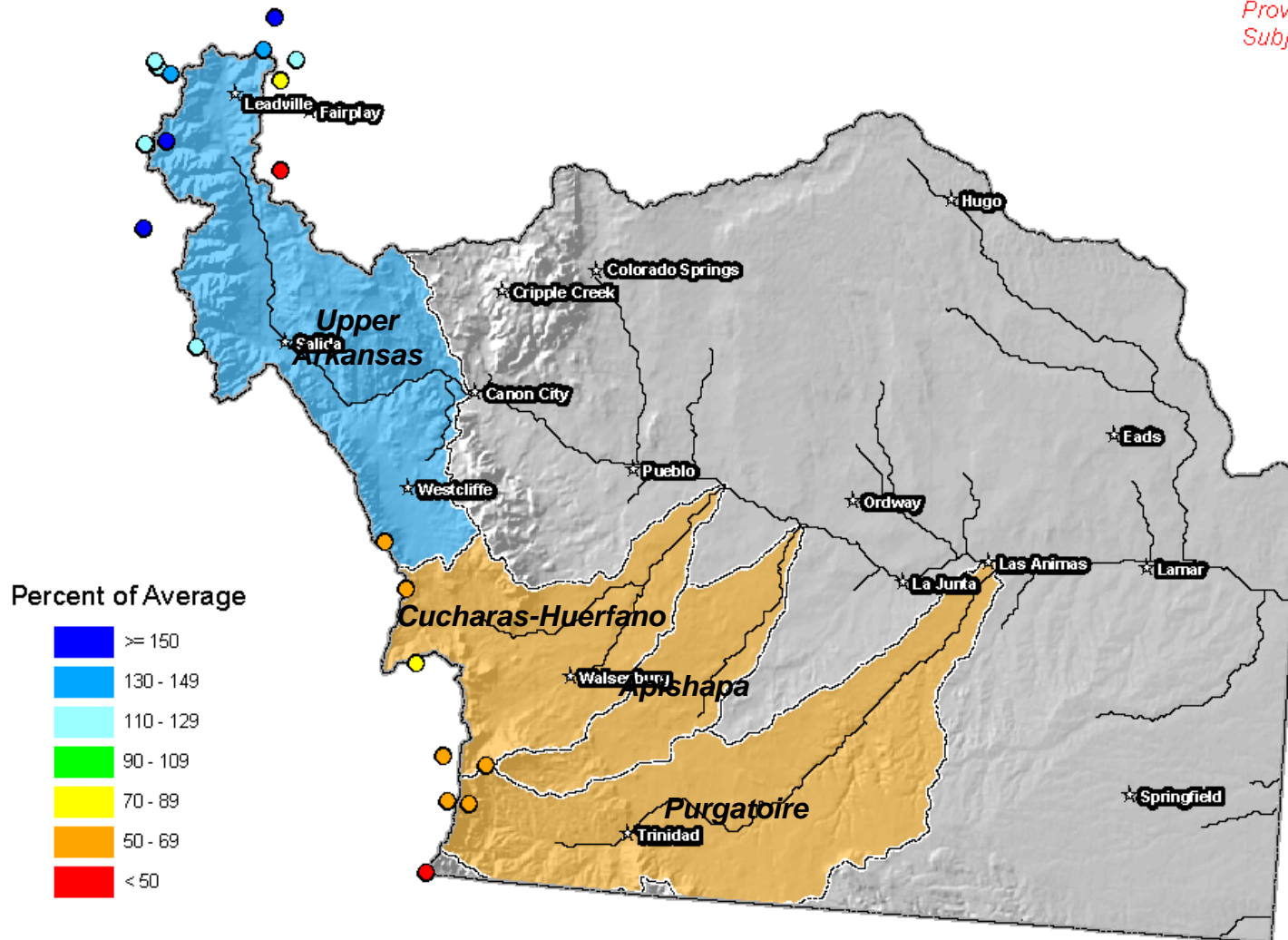
Current as of January 1, 2011

Arkansas River Basin Summary



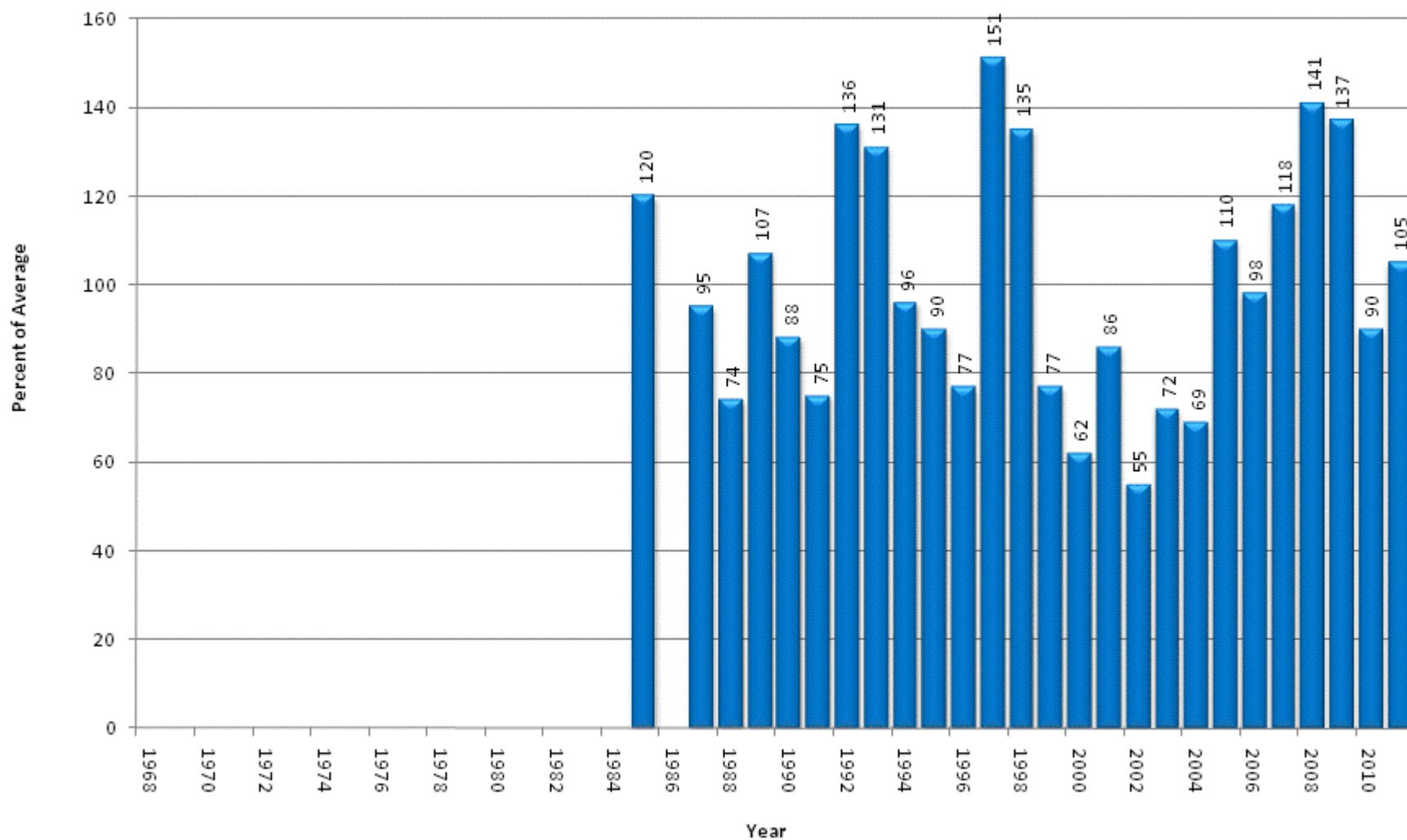
Arkansas River Basin Snowpack Map

*Provisional Data
Subject to Revision*



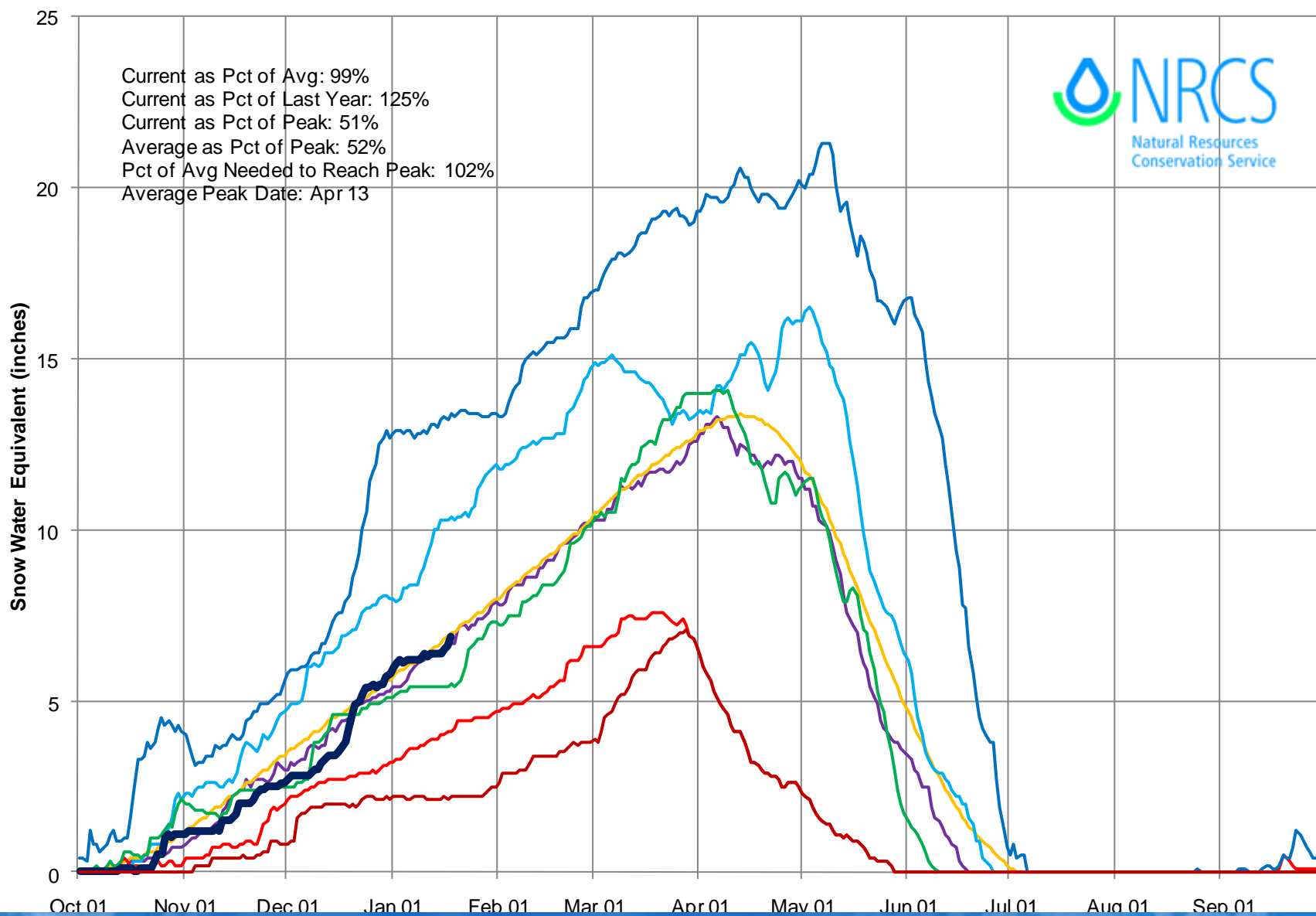
Current as of January 1, 2011

January 1 Total Arkansas River Basin Snowpack



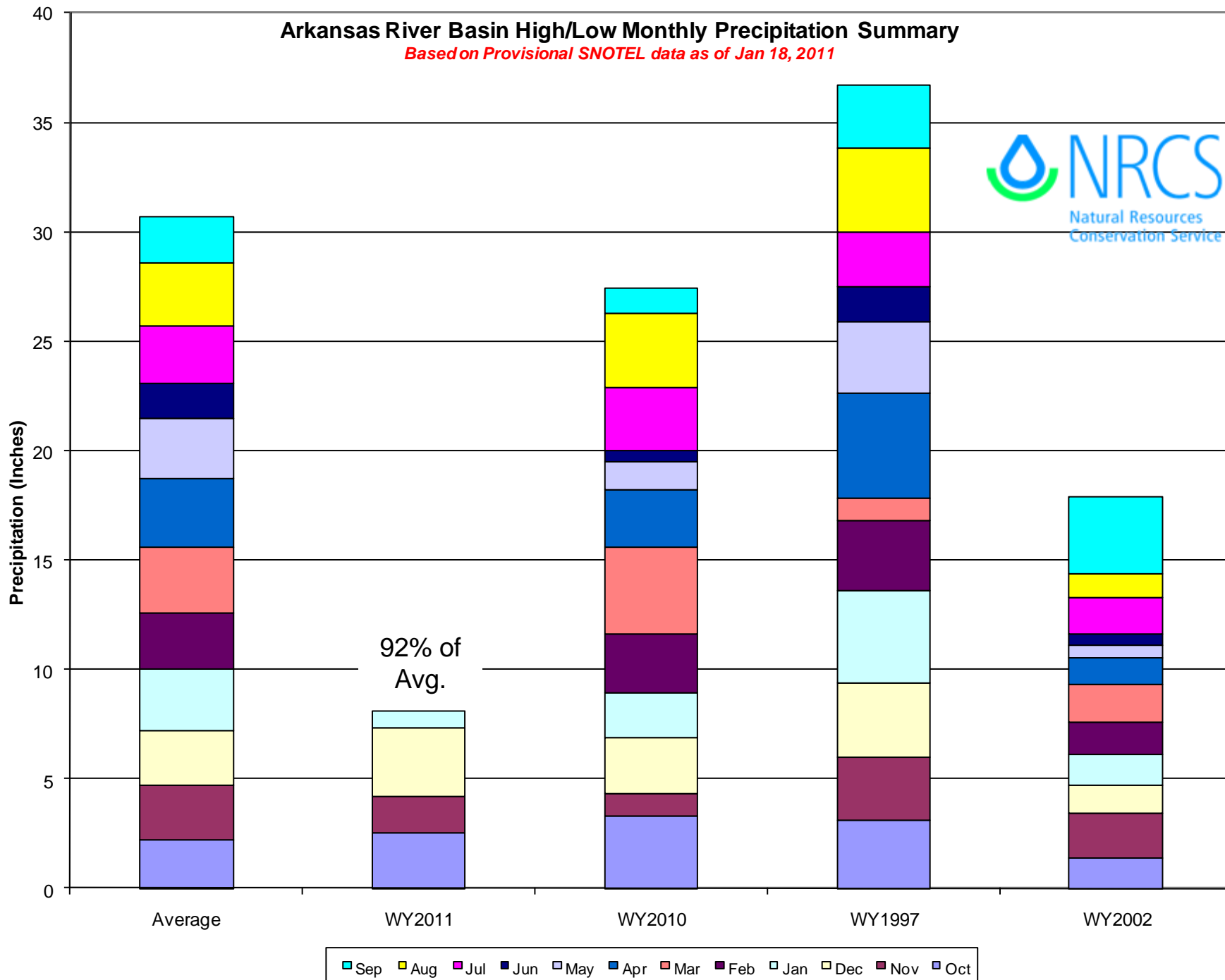
Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Jan 18, 2011



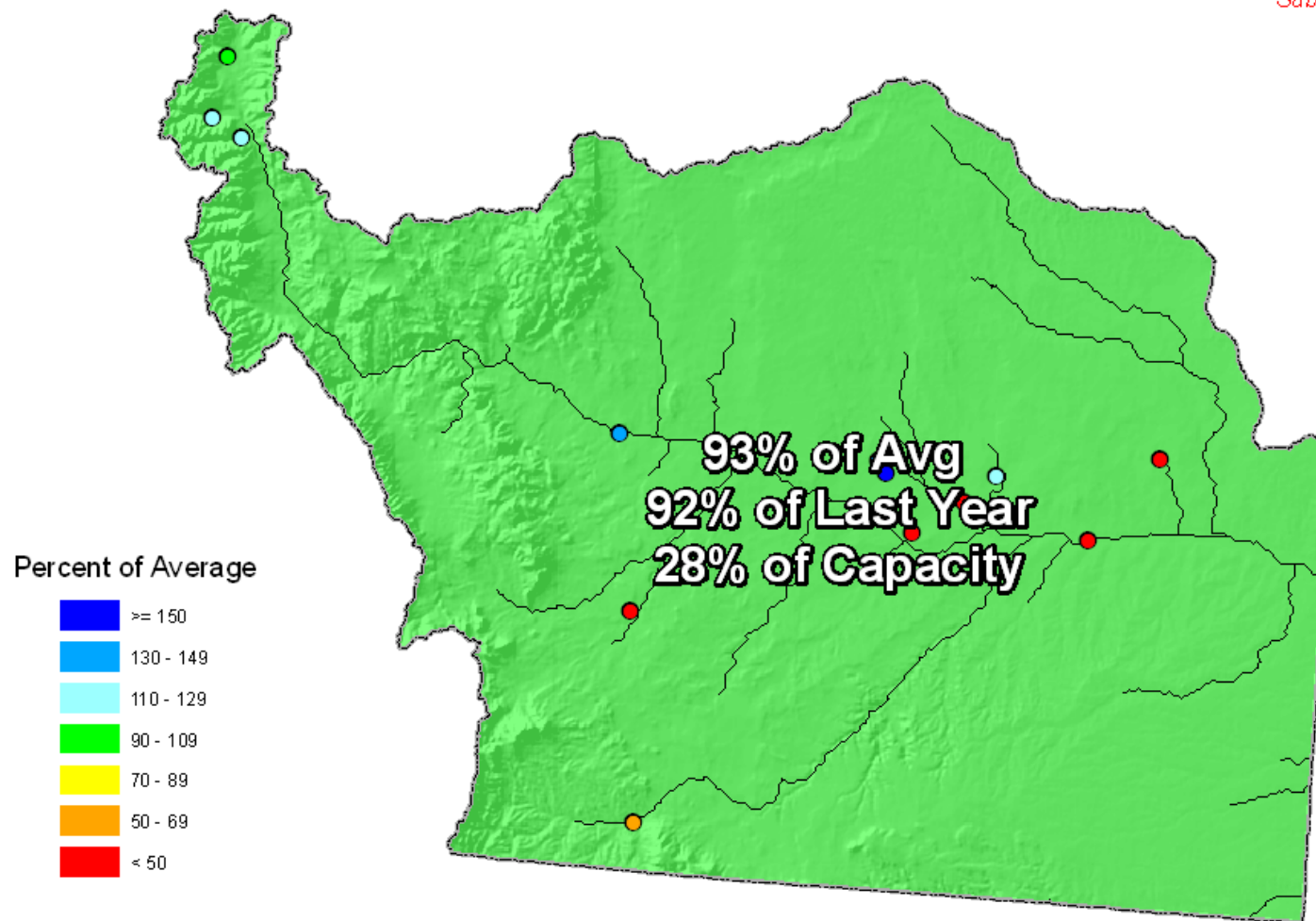
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 18, 2011



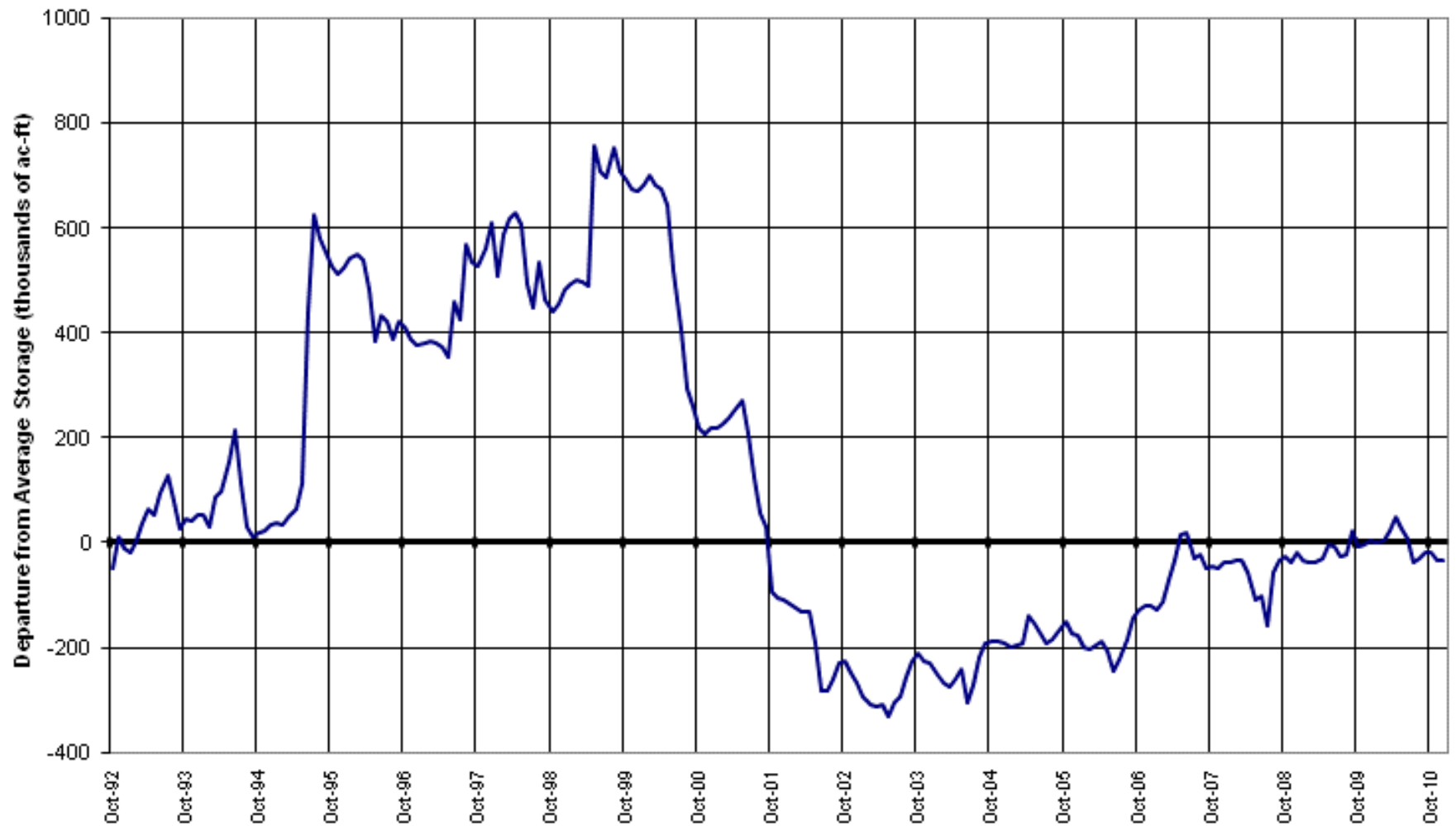
Arkansas River Basin Reservoir Storage Map

*Provisional Data
Subject to Revision*



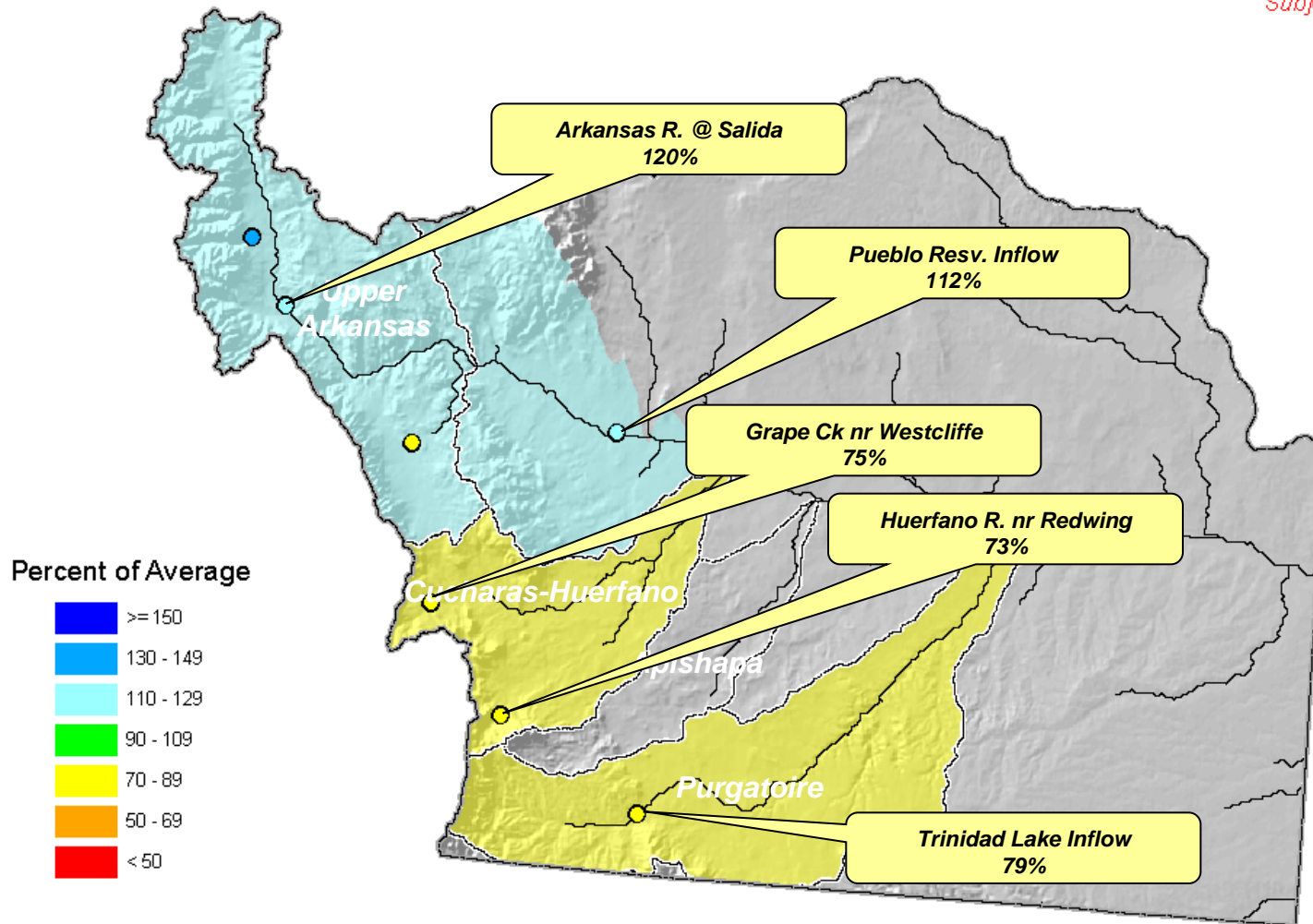
End of December 2010

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



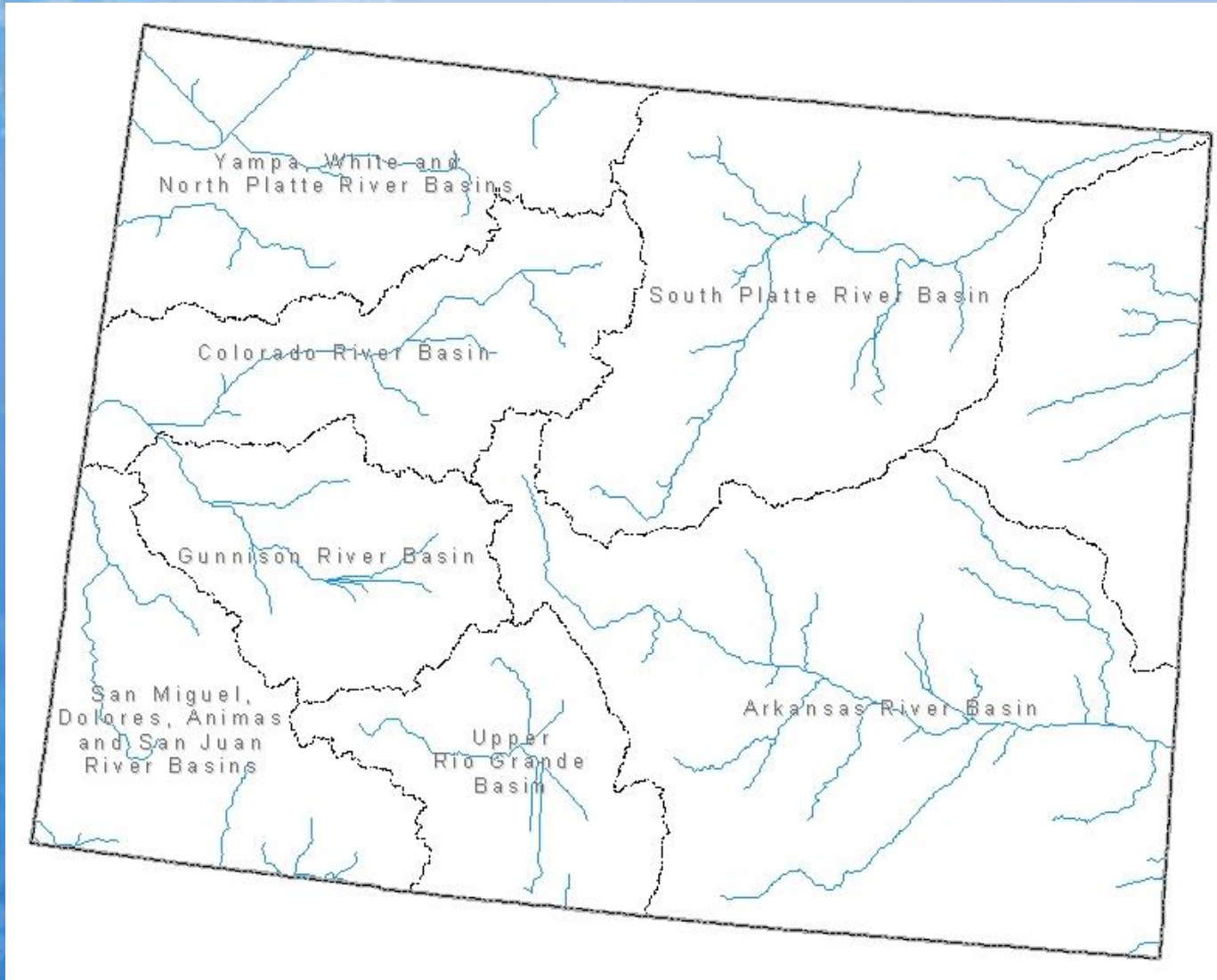
Arkansas River Basin Streamflow Forecast Map

*Provisional Data
Subject to Revision*



Current as of January 1, 2011

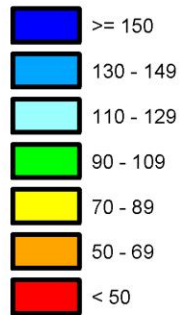
Colorado Statewide Summary



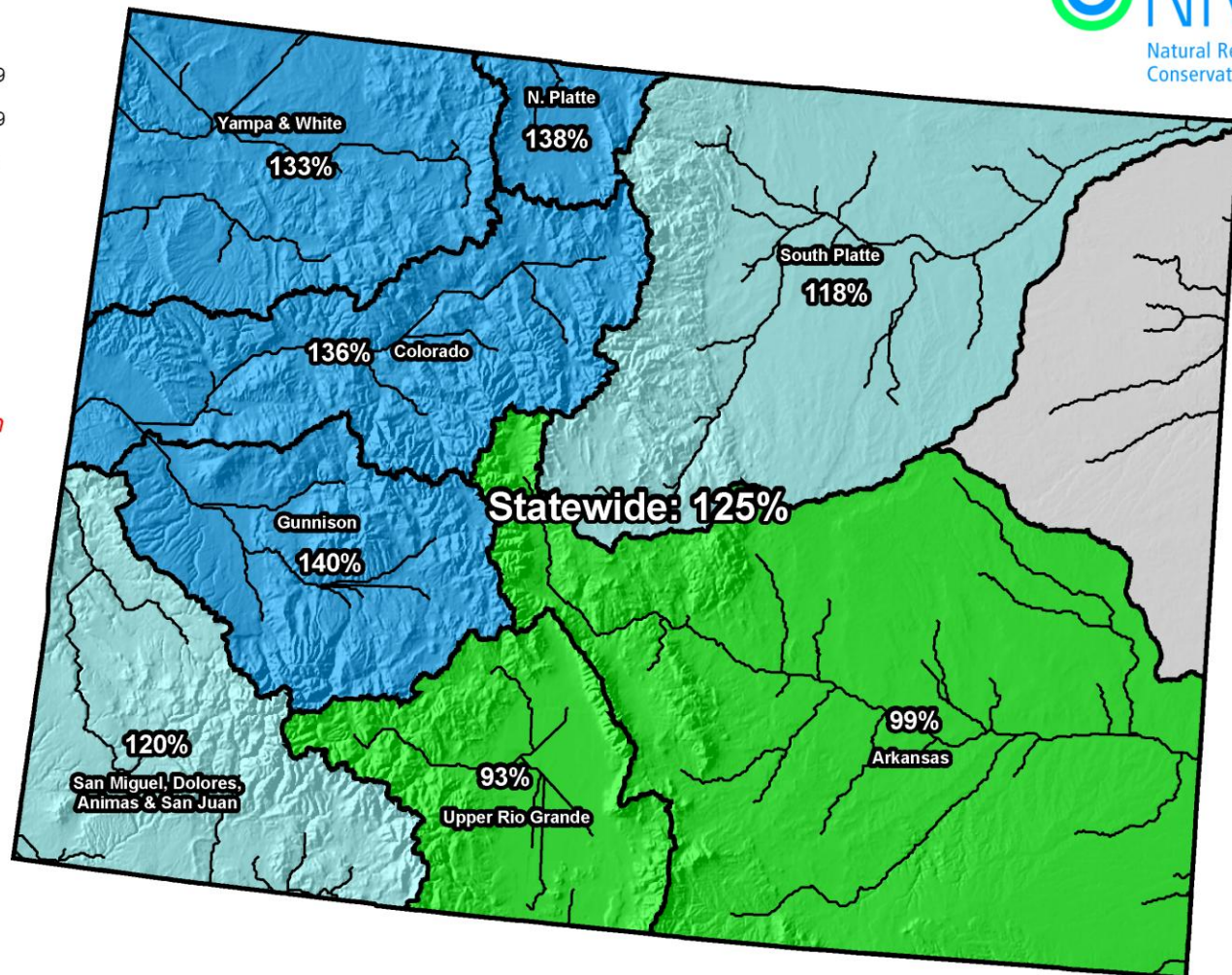
Colorado SNOTEL Snowpack Update Map



Percent of Average



*Provisional Data
Subject to Revision*



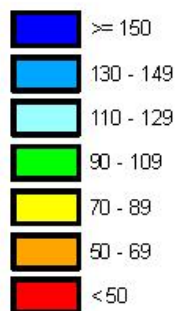
Current as of Jan 18, 2011

*Data may not provide a valid measure of conditions

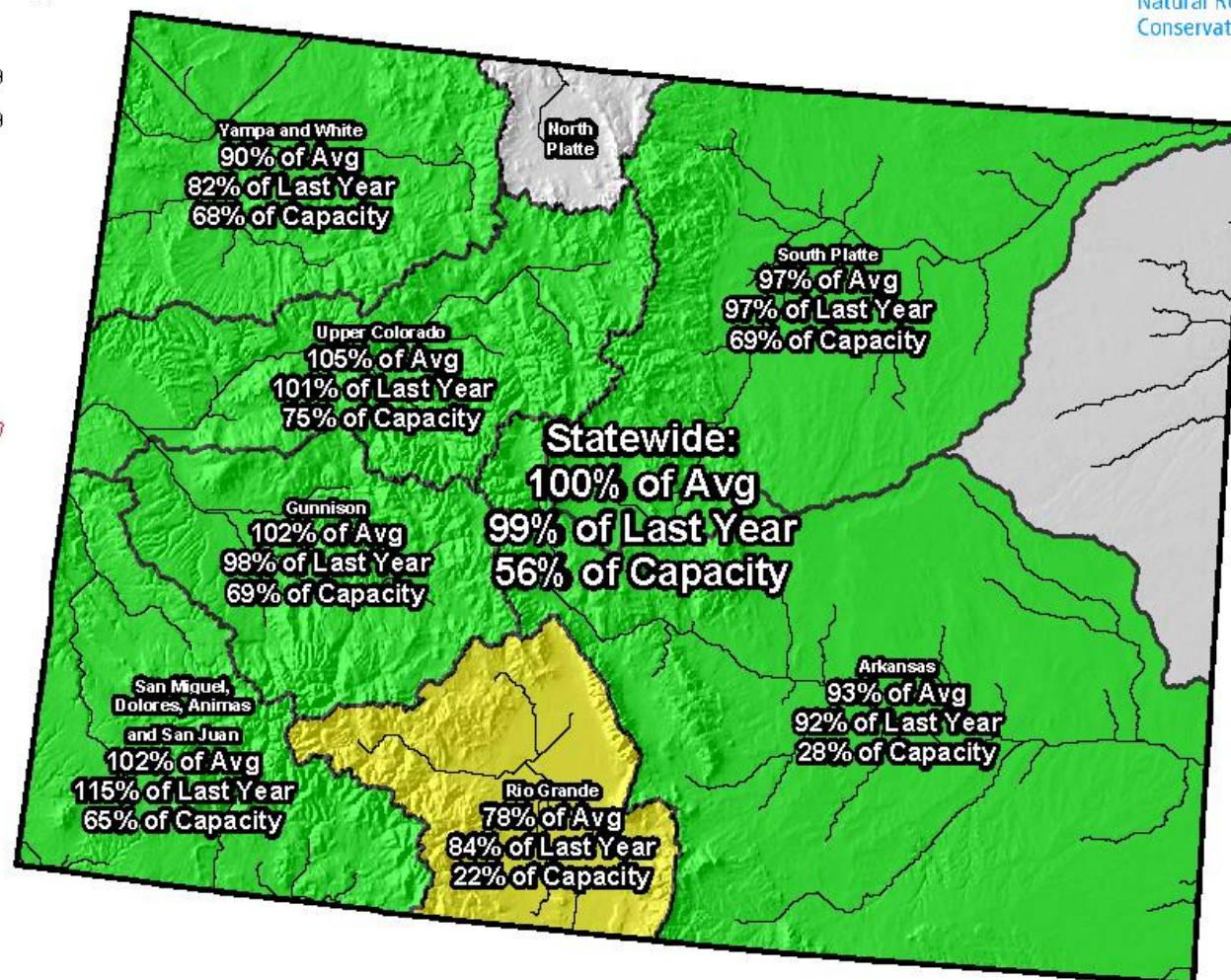
Colorado Reservoir Storage Map



Percent of Average



*Provisional Data
Subject to Revision*

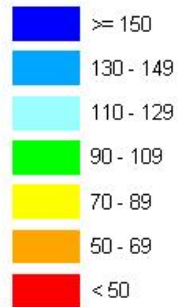


End of December 2010

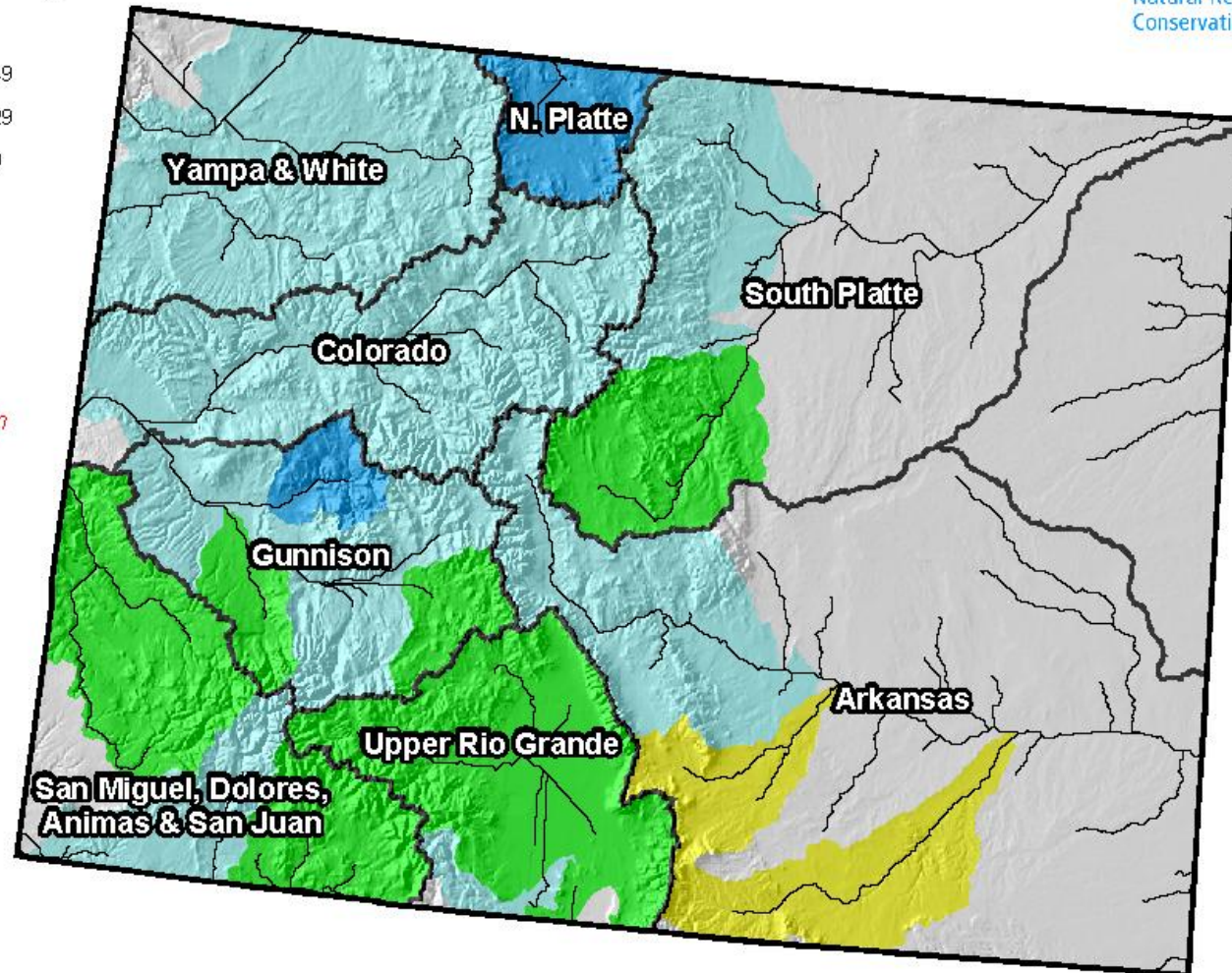
Colorado Streamflow Forecast Map



Percent of Average



*Provisional Data
Subject to Revision*

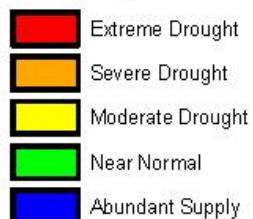


Current as of January 1, 2011

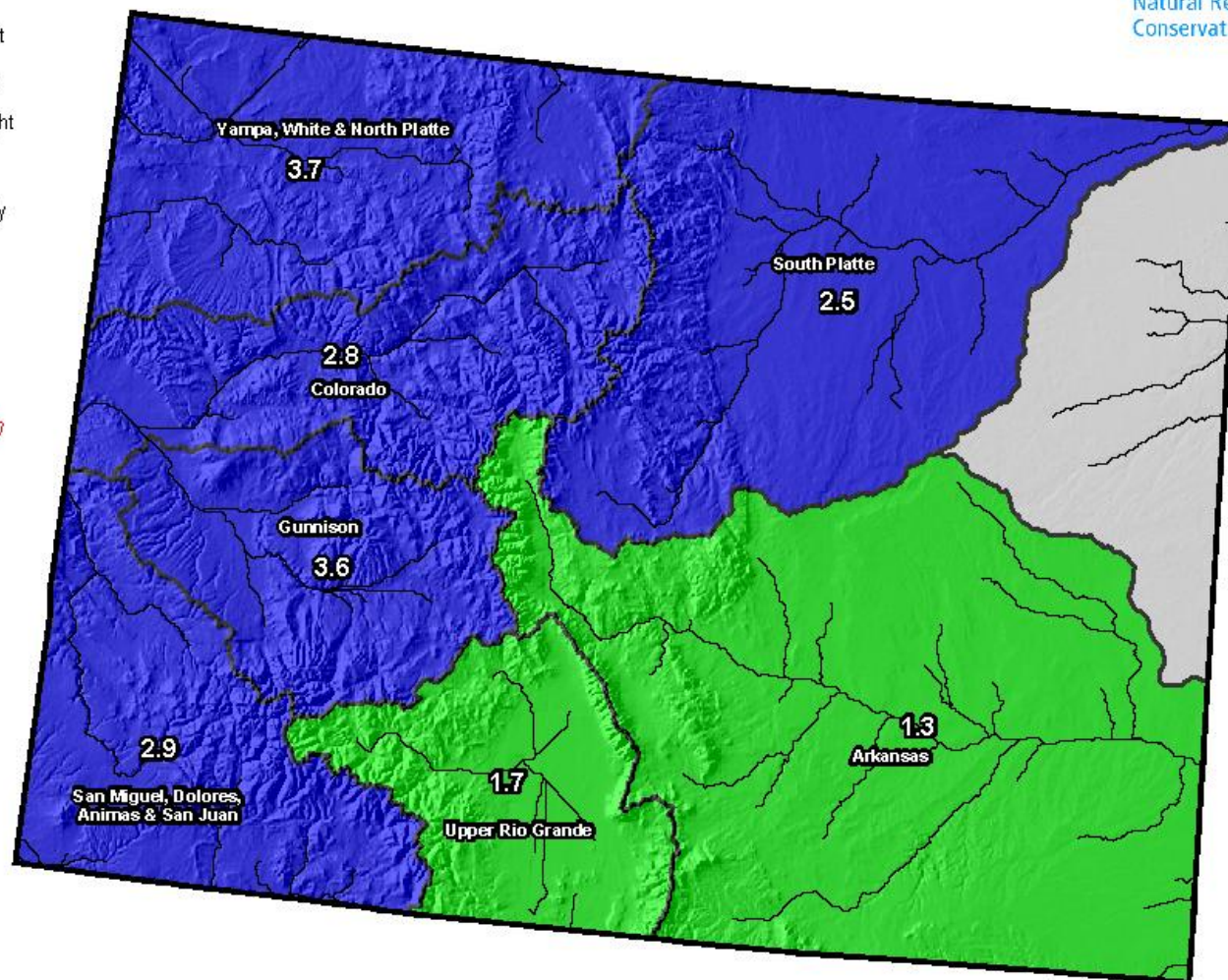
Colorado Surface Water Supply Index (SWSI) Map



Legend

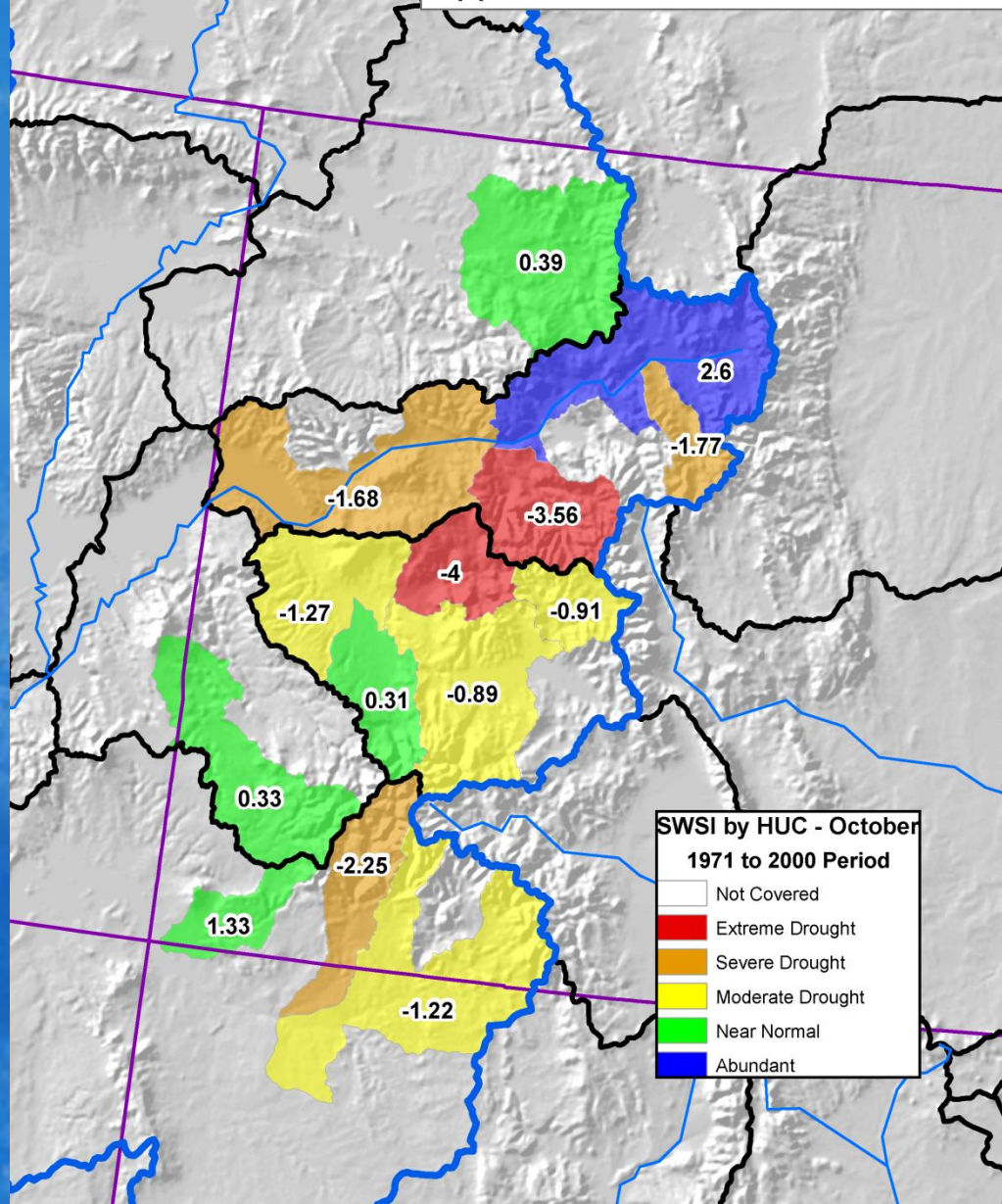


*Provisional Data
Subject to Revision*

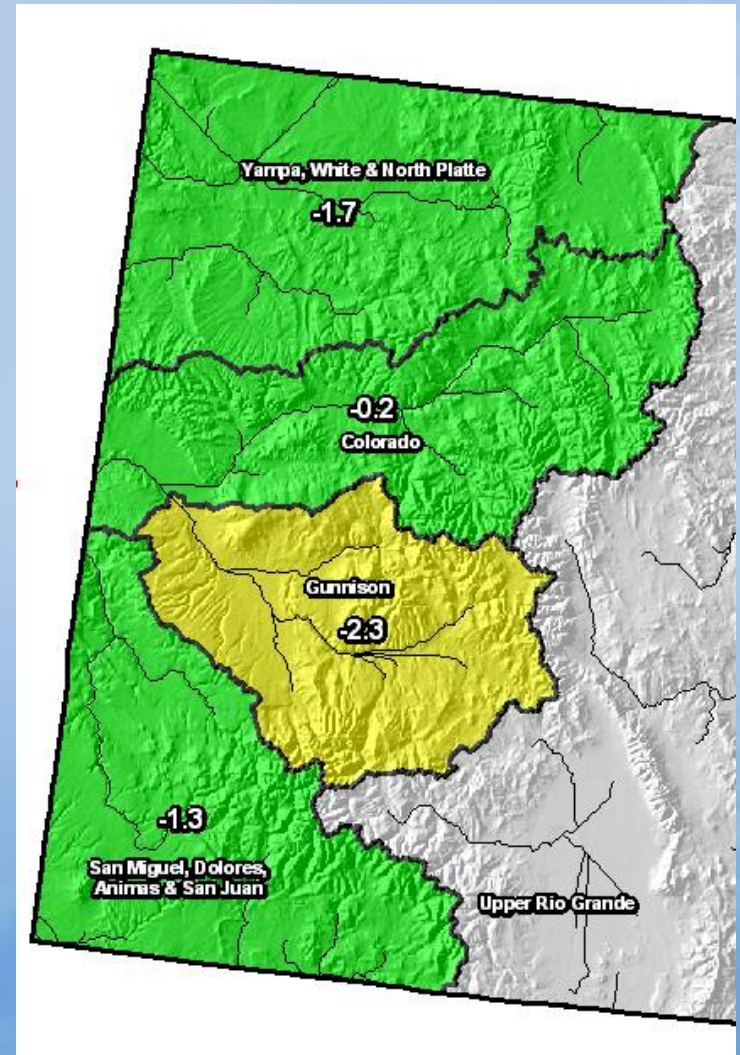


Current as of January 1, 2011

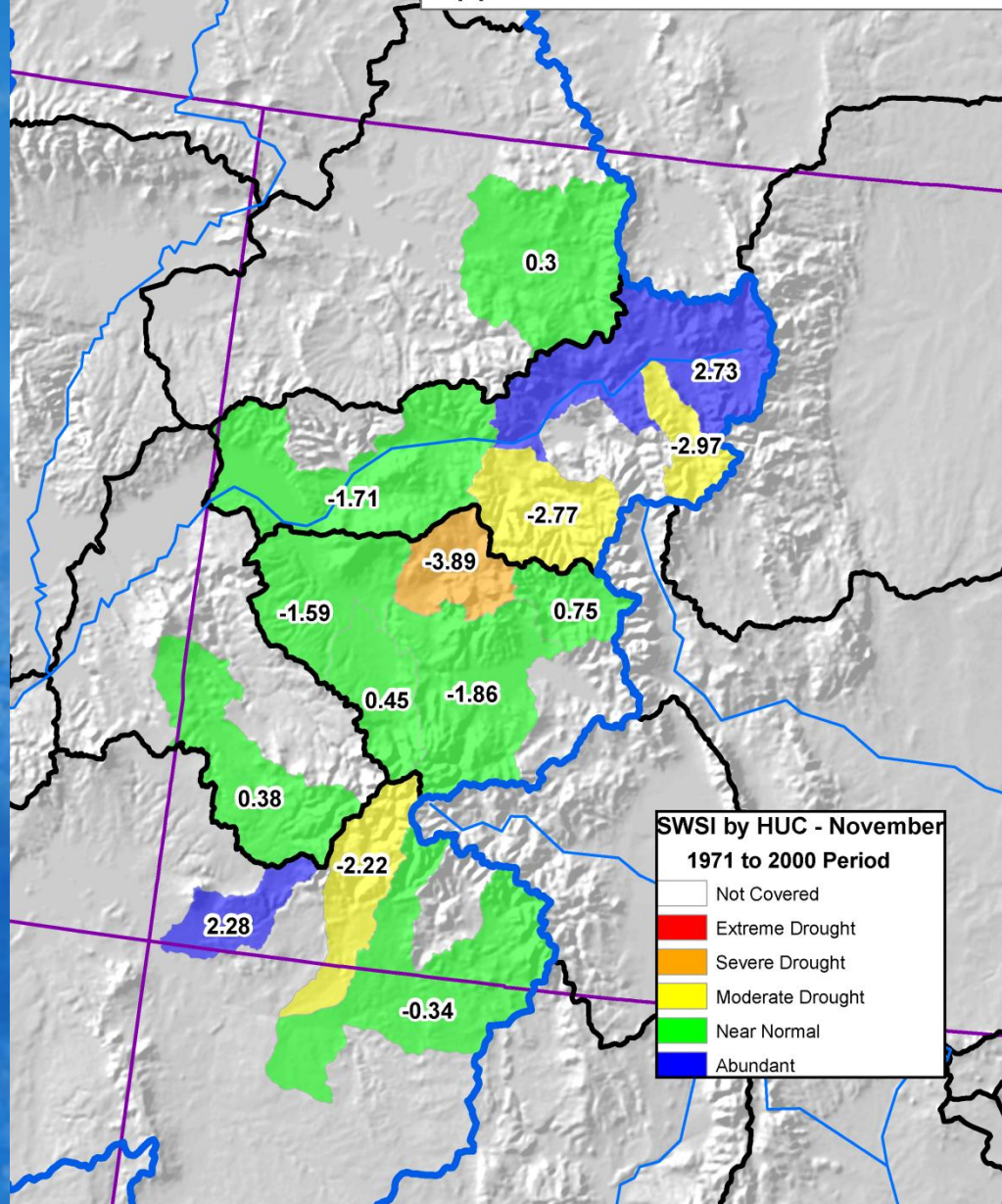
Surface Water Supply Index Upper Colorado - Water Year 2011



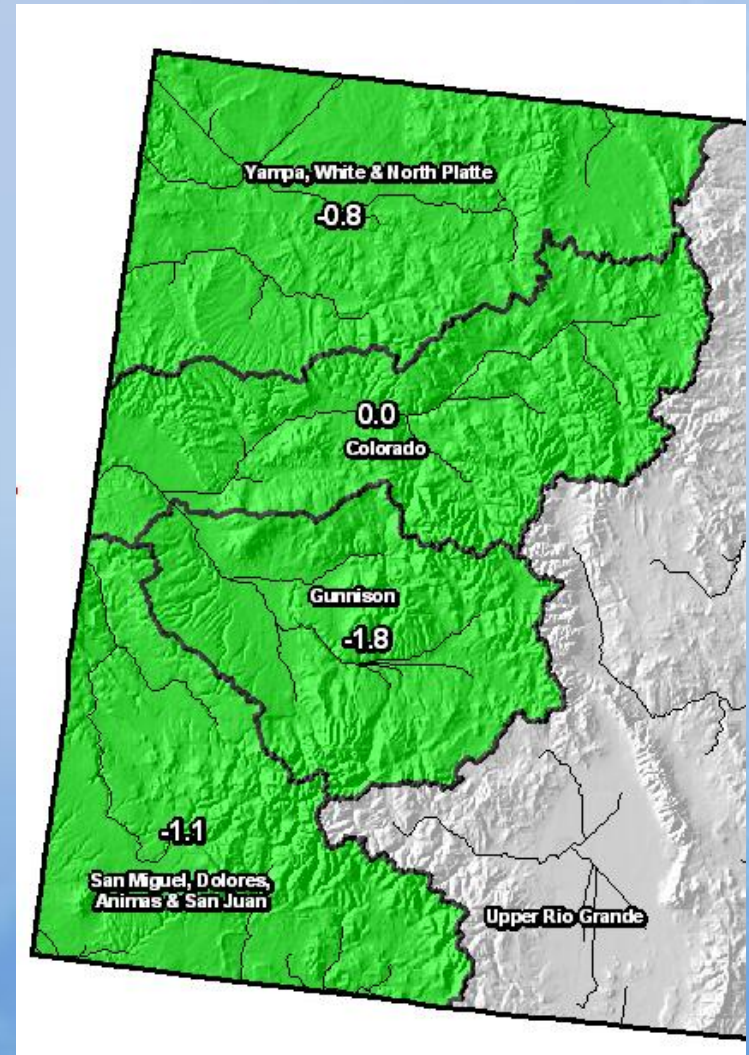
Colorado SWSI October 2010



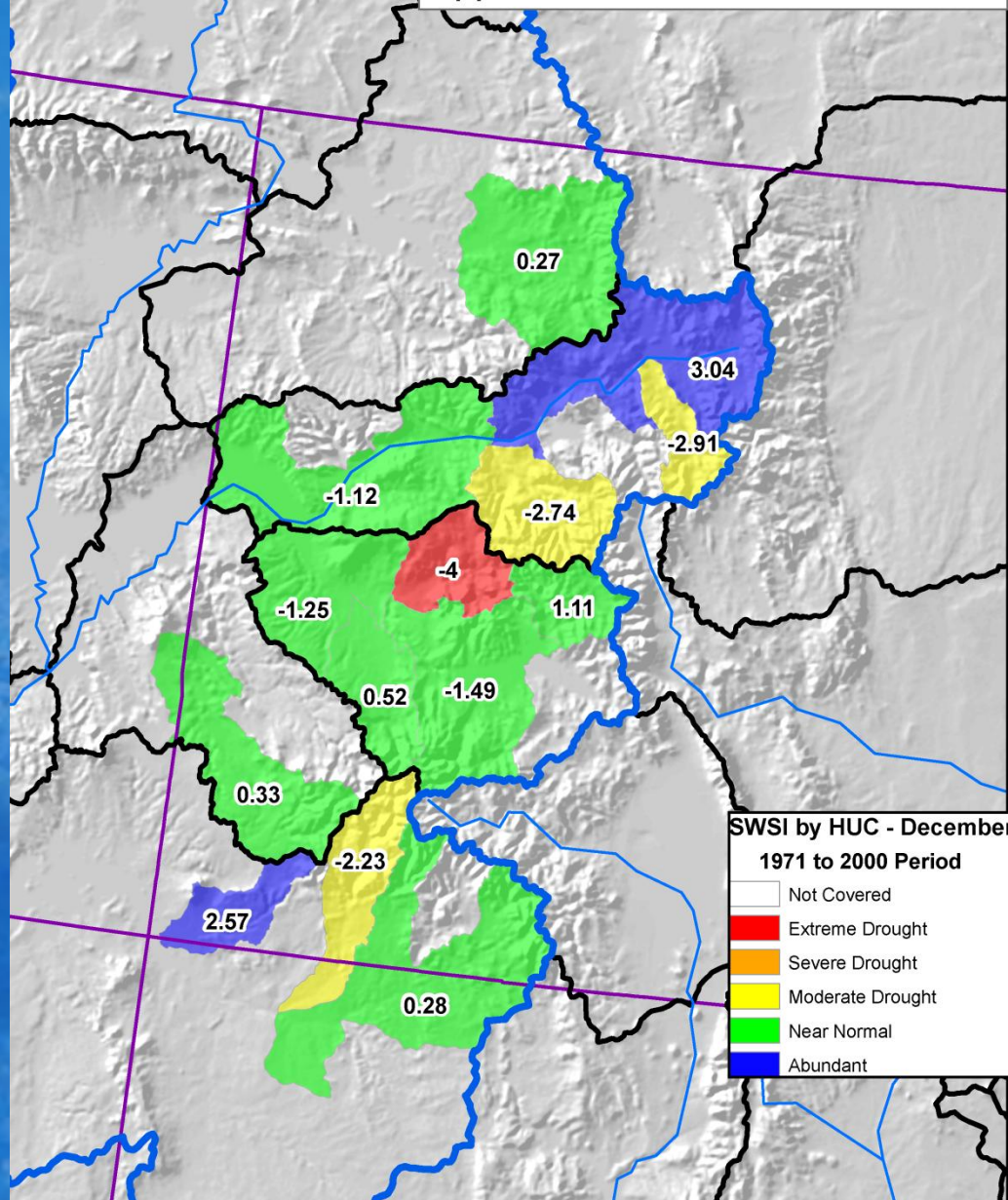
Surface Water Supply Index Upper Colorado - Water Year 2011



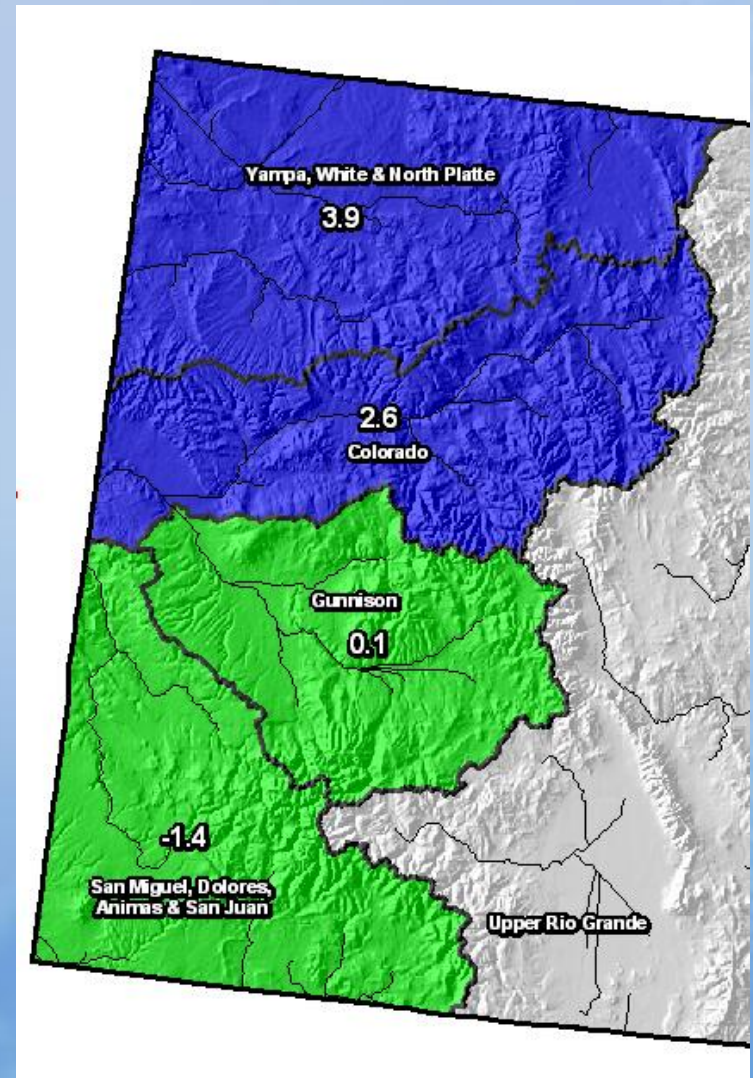
Colorado SWSI November 2010



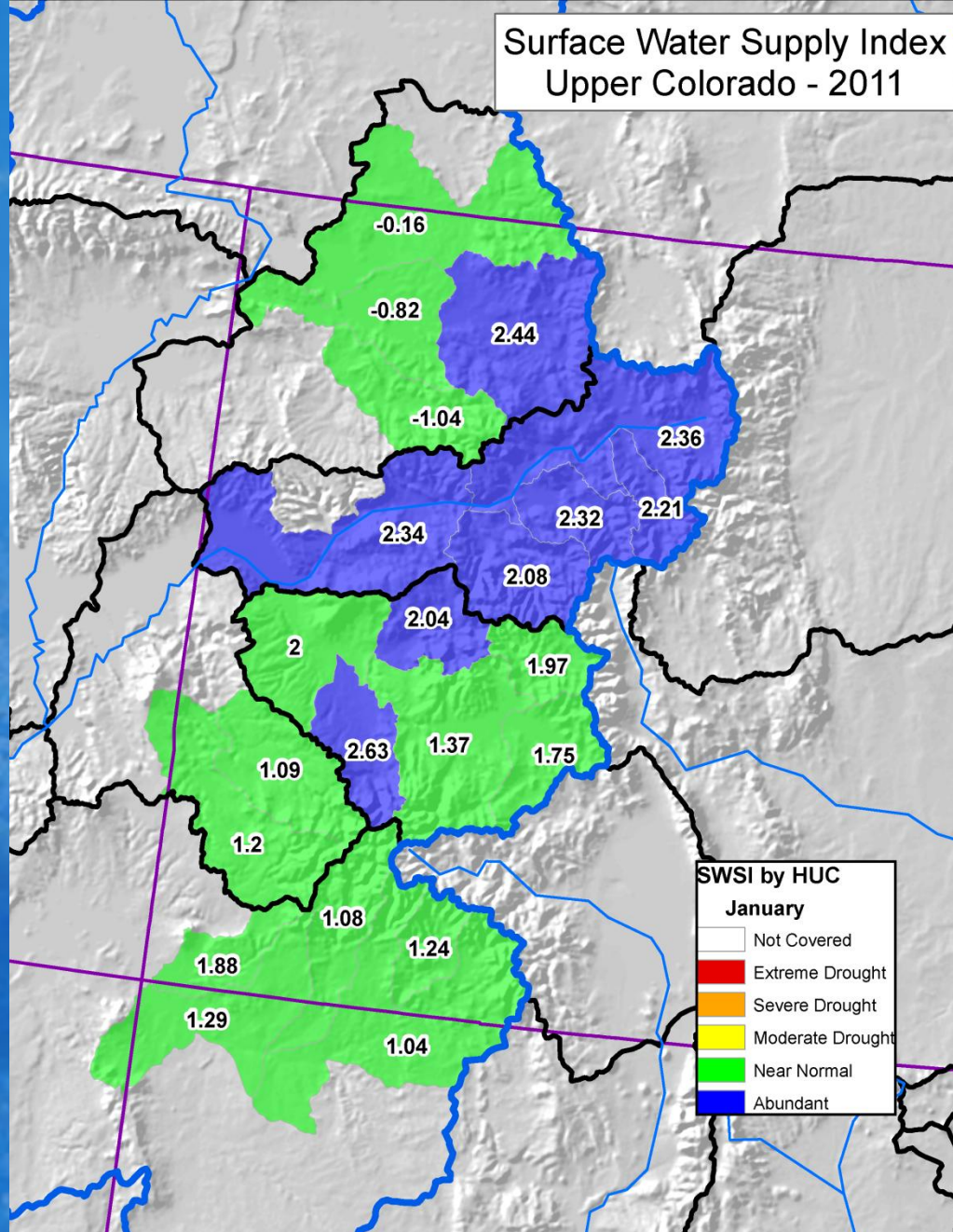
Surface Water Supply Index Upper Colorado - Water Year 2011



Colorado SWSI December 2010



Surface Water Supply Index
Upper Colorado - 2011



Colorado SWSI
January 2011

