

NRCS – Snow Survey & Water Supply Forecasting

Mike Gillespie

Water Availability / Flood Task Force
Meeting

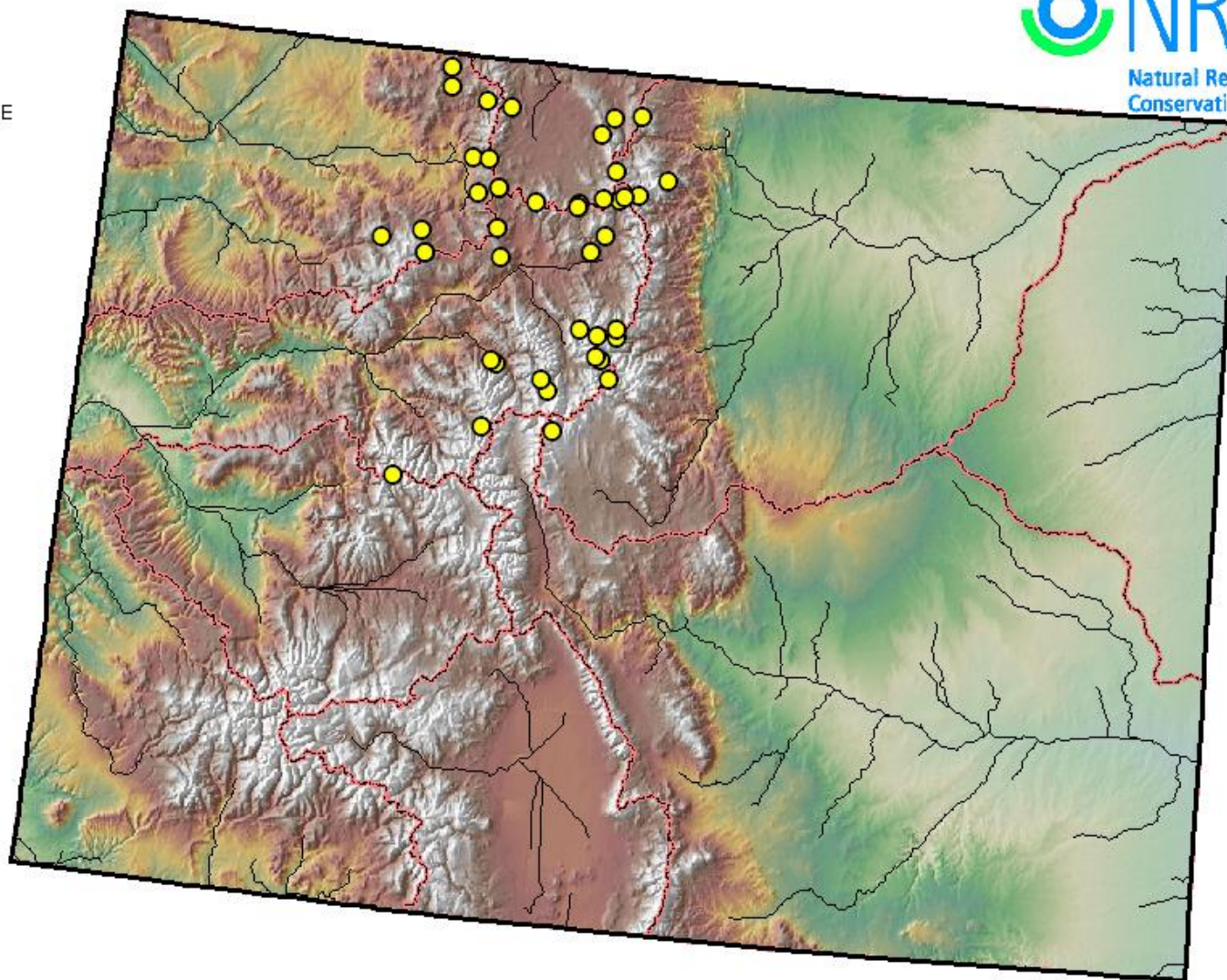
May 11, 2011

Colorado Sites with Record High May 1 Snow Water Equivalent



Legend

- Record High SWE



*Provisional Data
Subject to Revision*

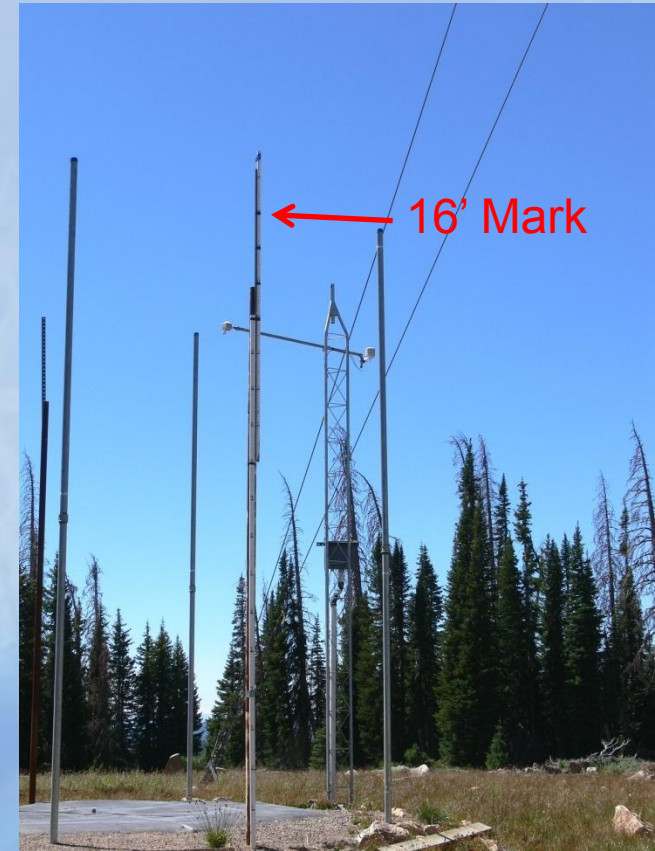
New Records Set at 46 Measuring Sites

New **Statewide Record Snowpack (SWE)** Set at Tower SNOTEL

Previous SWE= 71.1 inches on 5/1/78

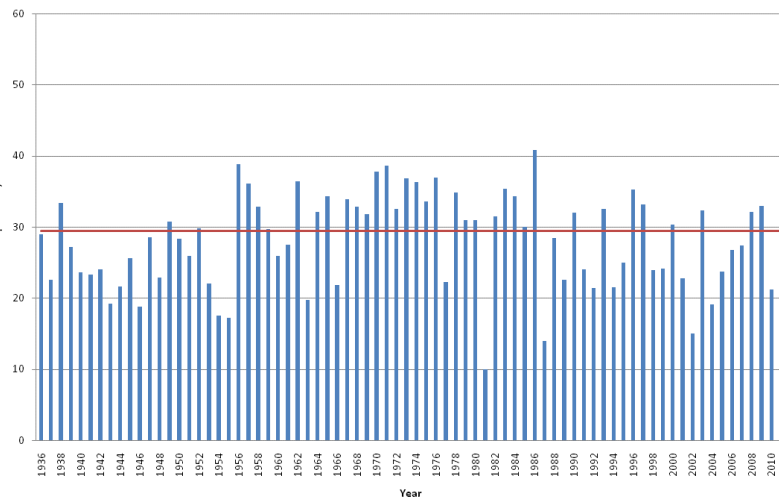
This year's maximum to-date SWE = 73.9 inches on 5/6/11

47 yrs record



Cameron Pass Snow Course
76 Year Record

■ May 1st — 1971-2000 Average



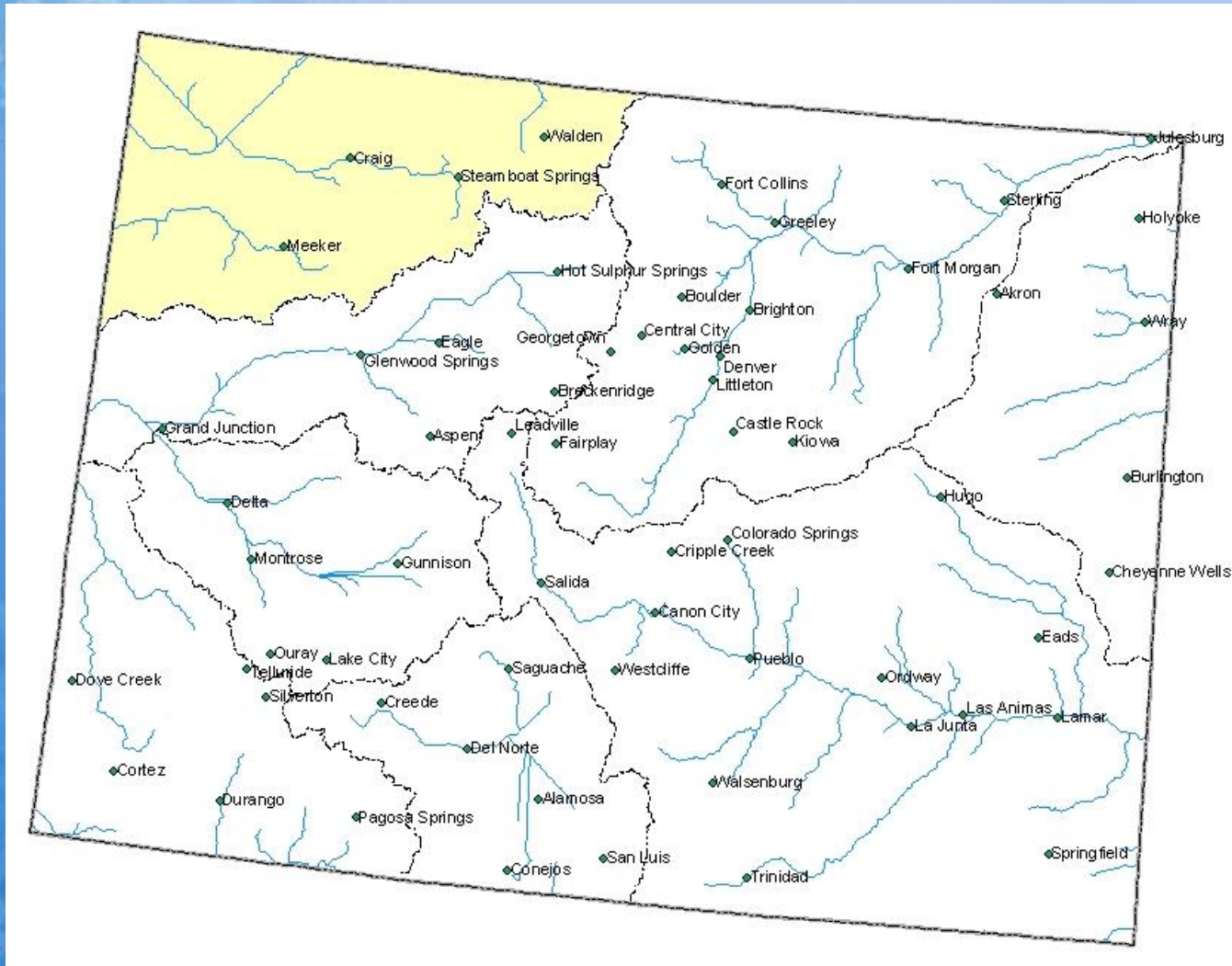
Cameron Pass Snow Course

New Record: 48.7" SWE 133" Depth on 4/28/11

Old Record: 40.9" SWE 97" Depth on 4/29/86

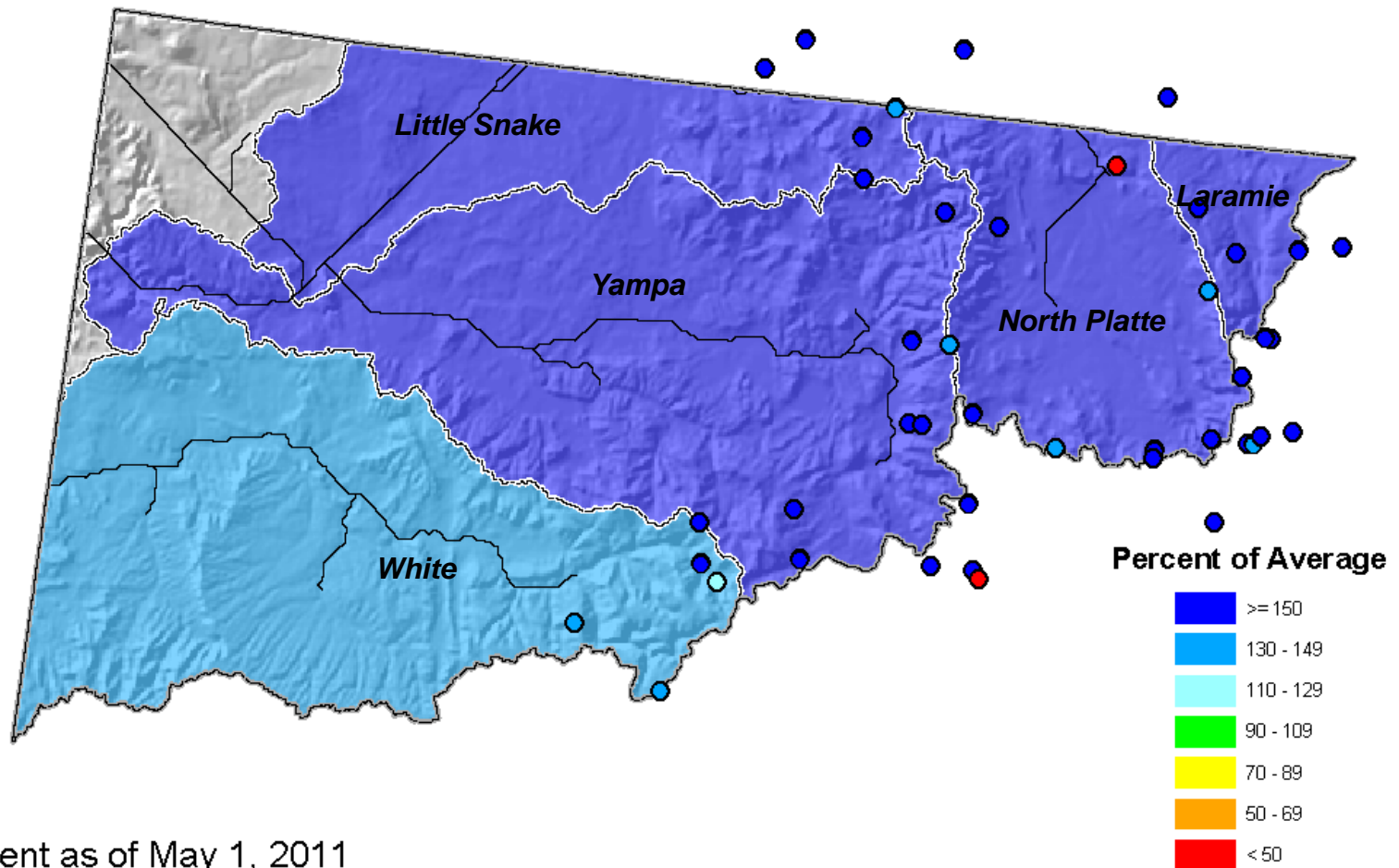
76 years of record

Yampa, White & North Platte River Basins Summary



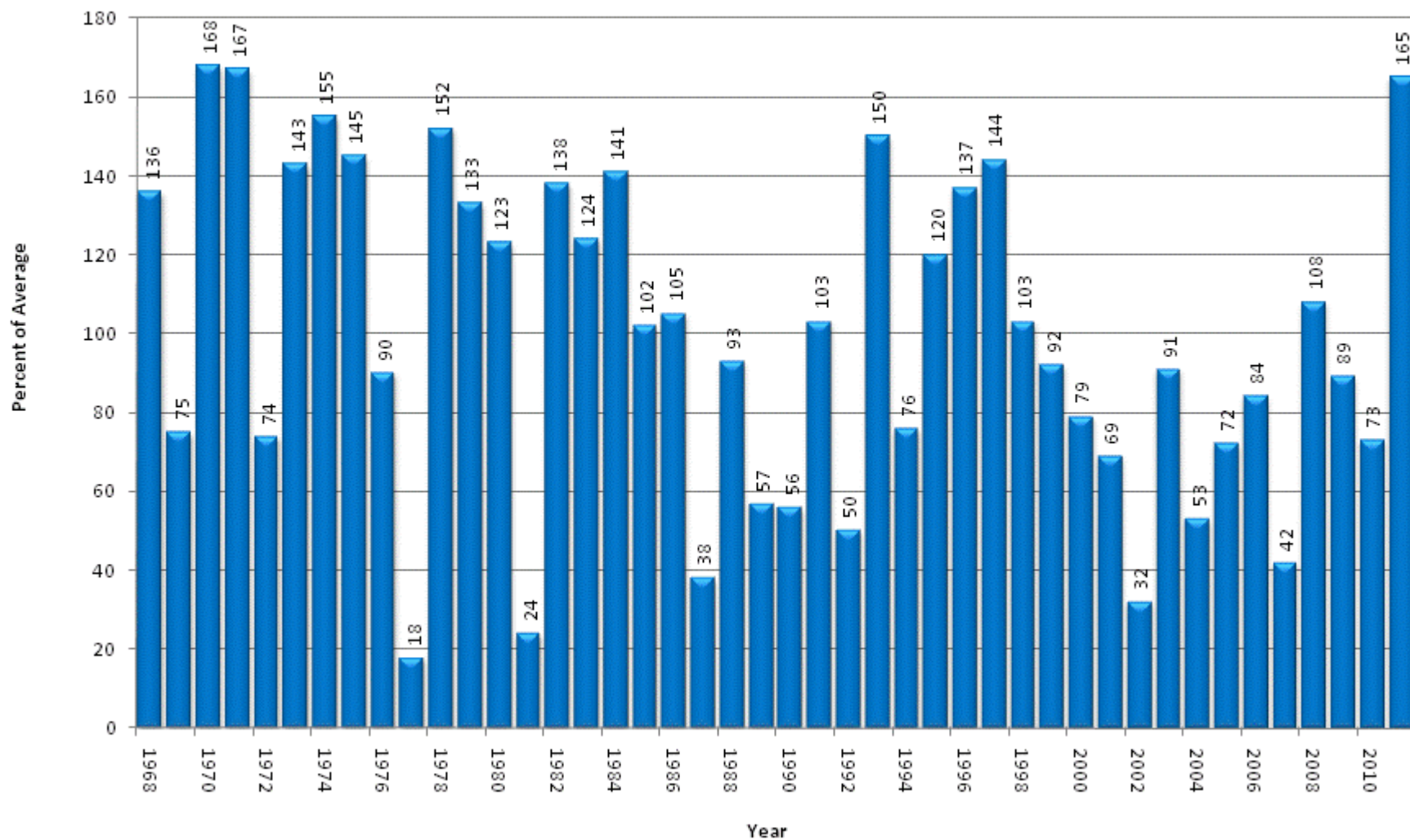
Yampa, White and North Platte River Basins Snowpack Map

*Provisional Data
Subject to Revision*

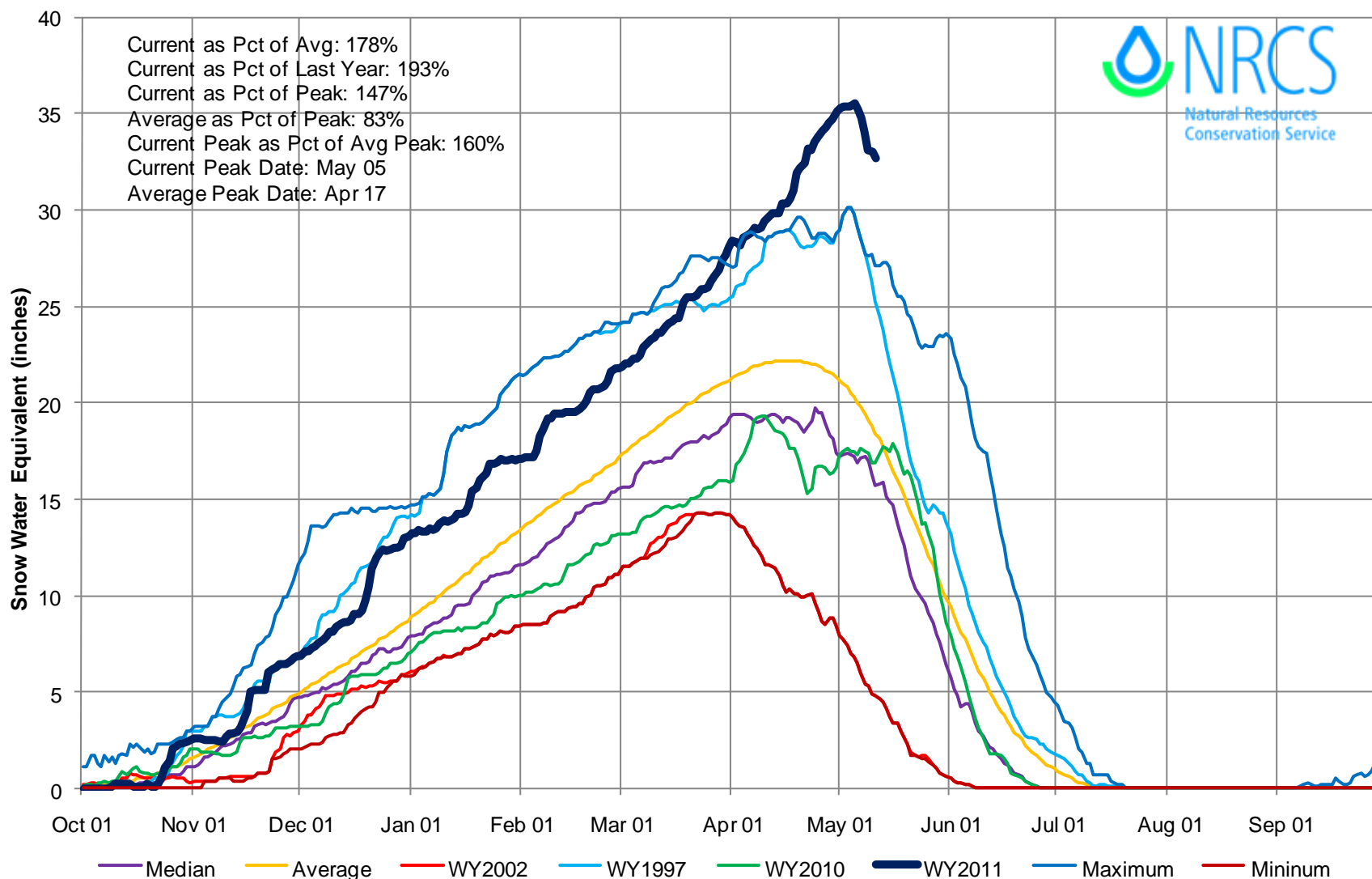


Current as of May 1, 2011

May 1 Total Yampa & White River Basins Snowpack

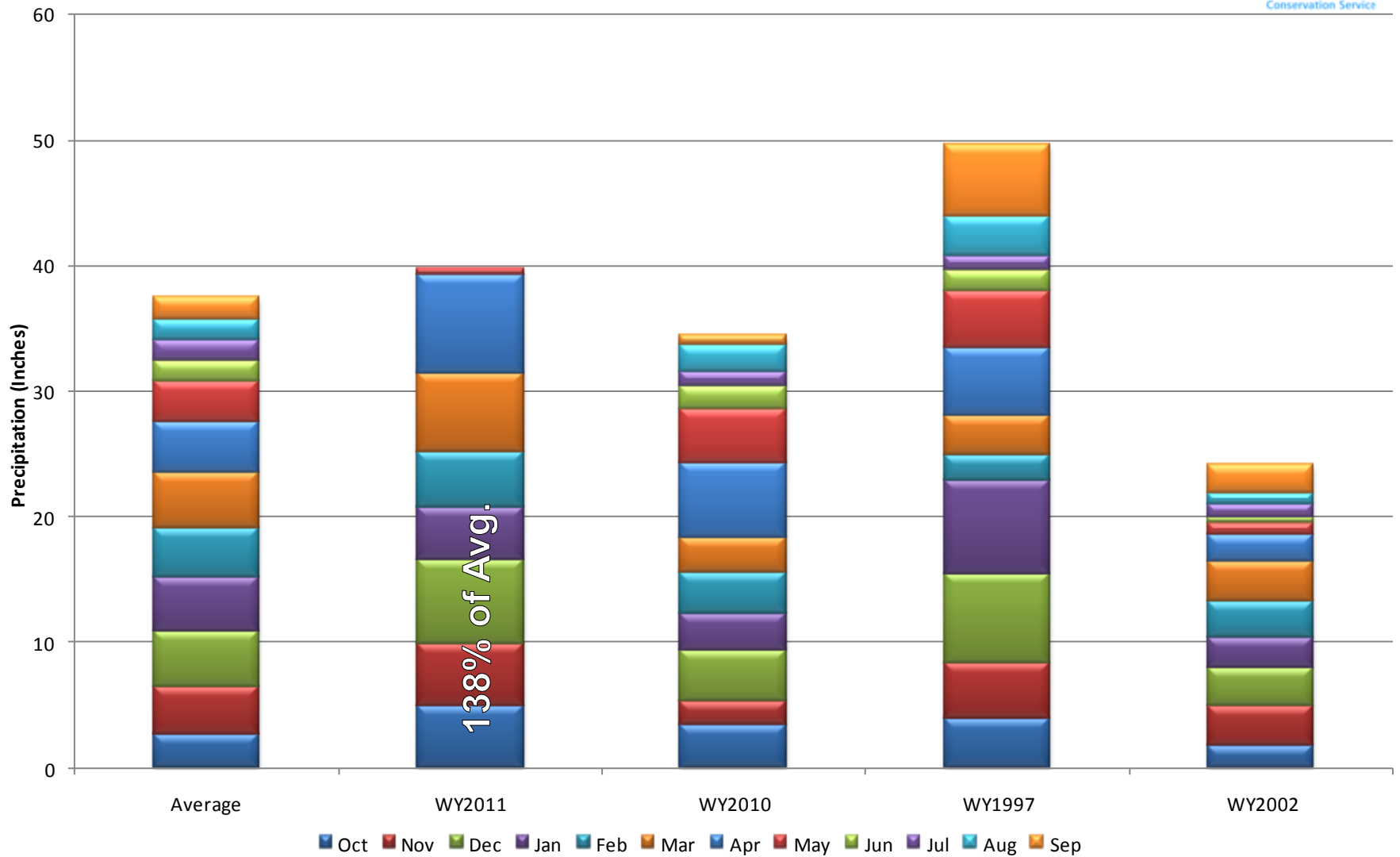


Based on Provisional SNOTEL data as of May 11, 2011



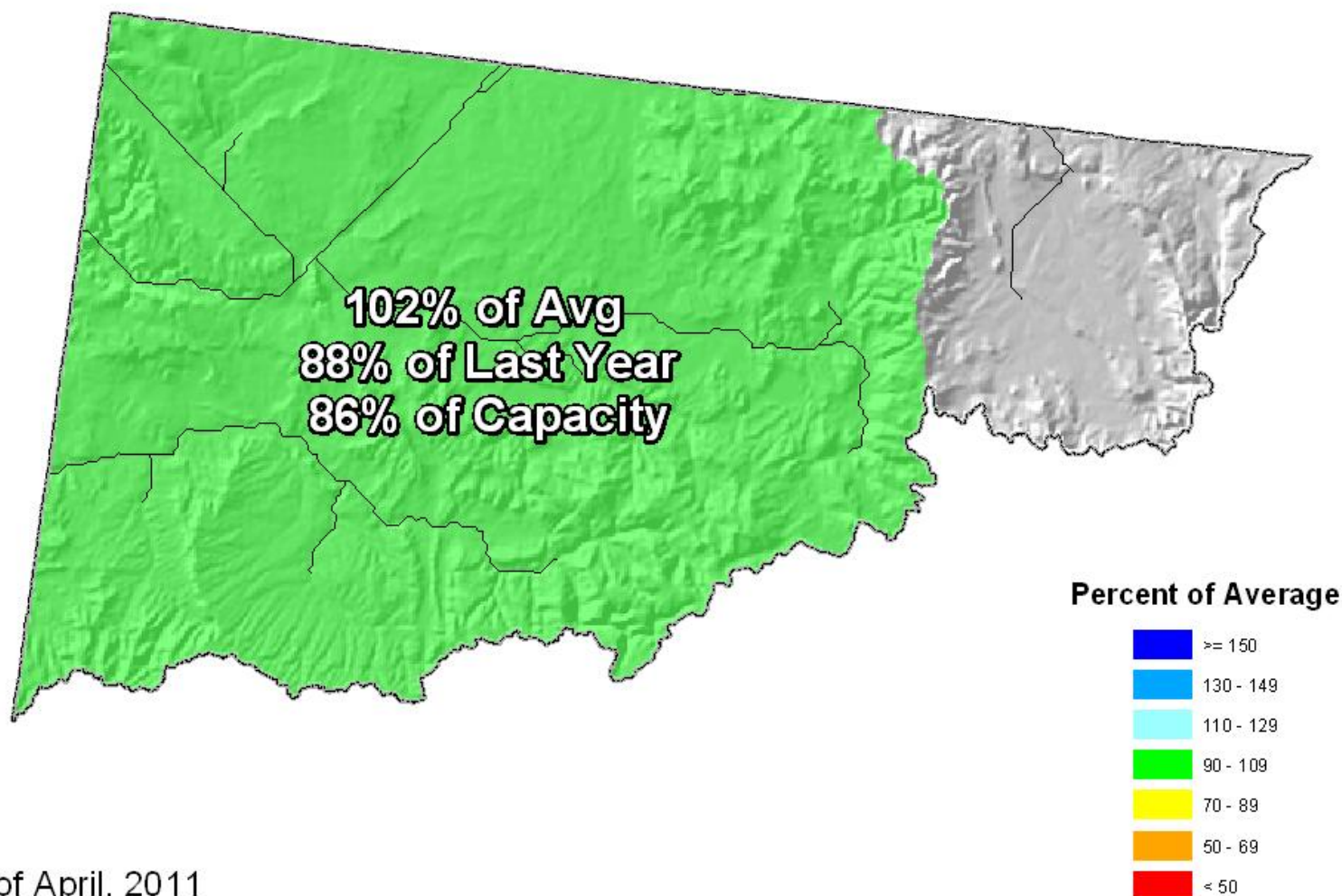
Yampa and White River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 11, 2011



Yampa & White River Basins Reservoir Storage Map

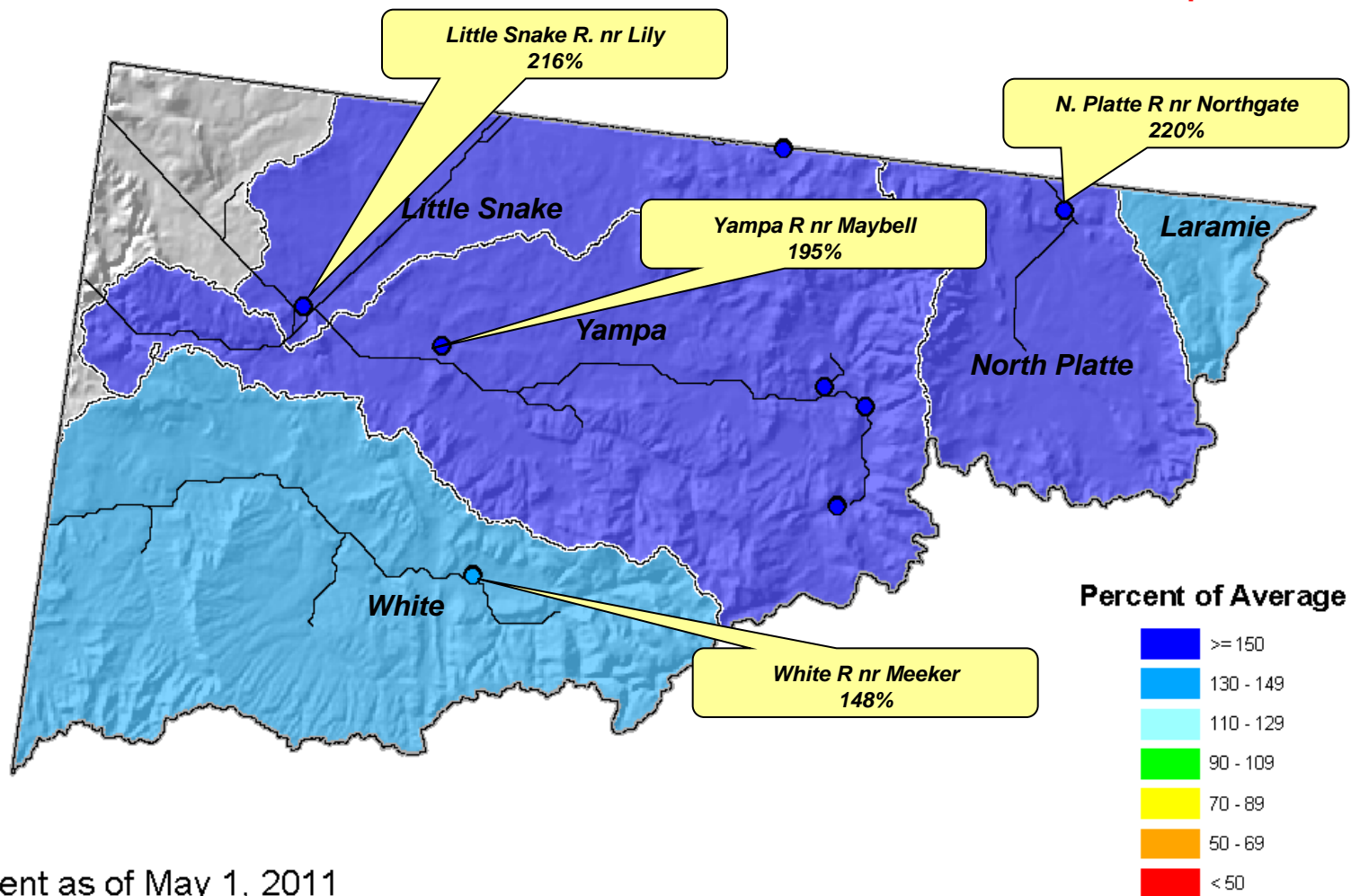
*Provisional Data
Subject to Revision*



End of April, 2011

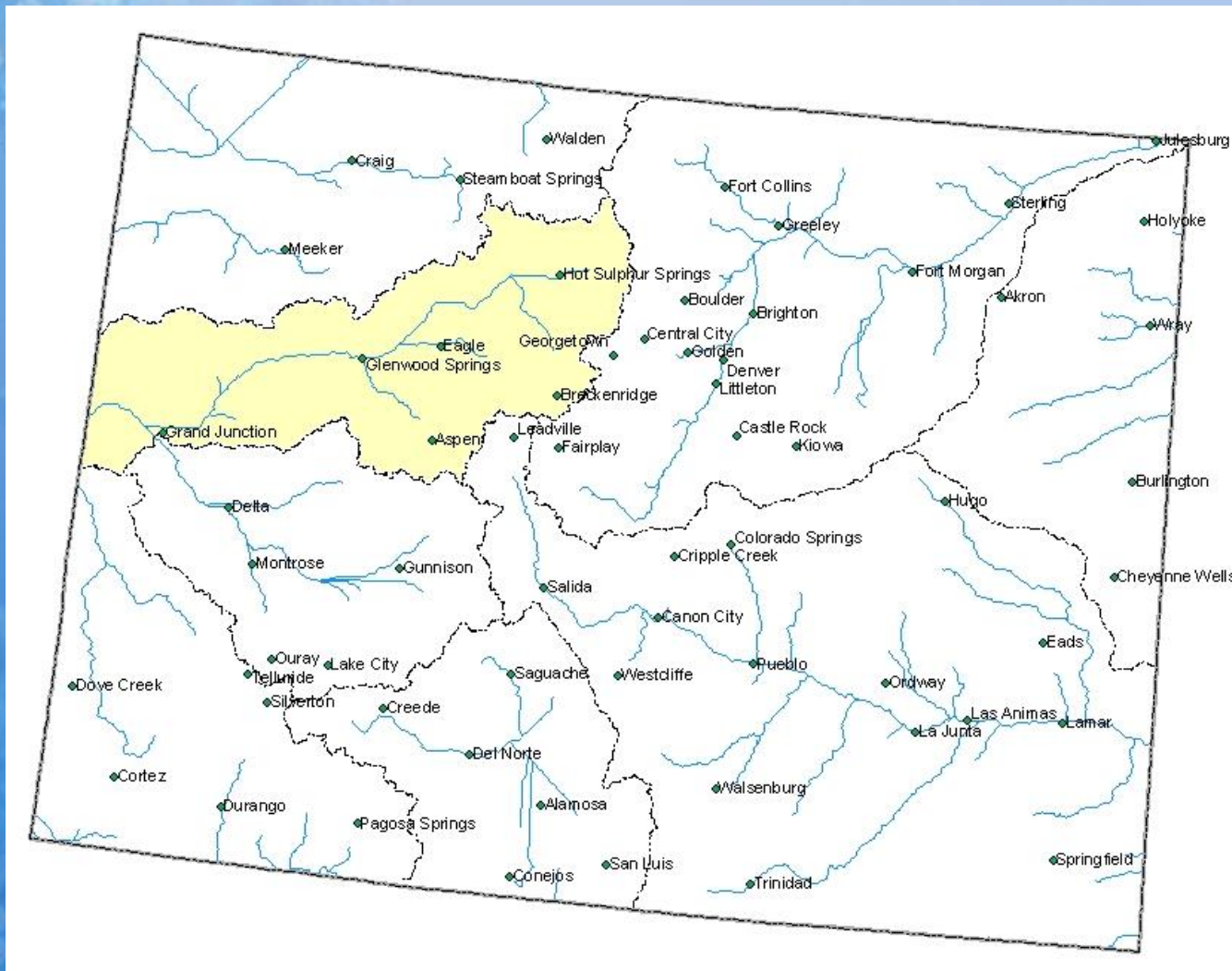
Yampa, White and North Platte River Basins Streamflow Map

*Provisional Data
Subject to Revision*



Current as of May 1, 2011

Colorado River Basin Summary

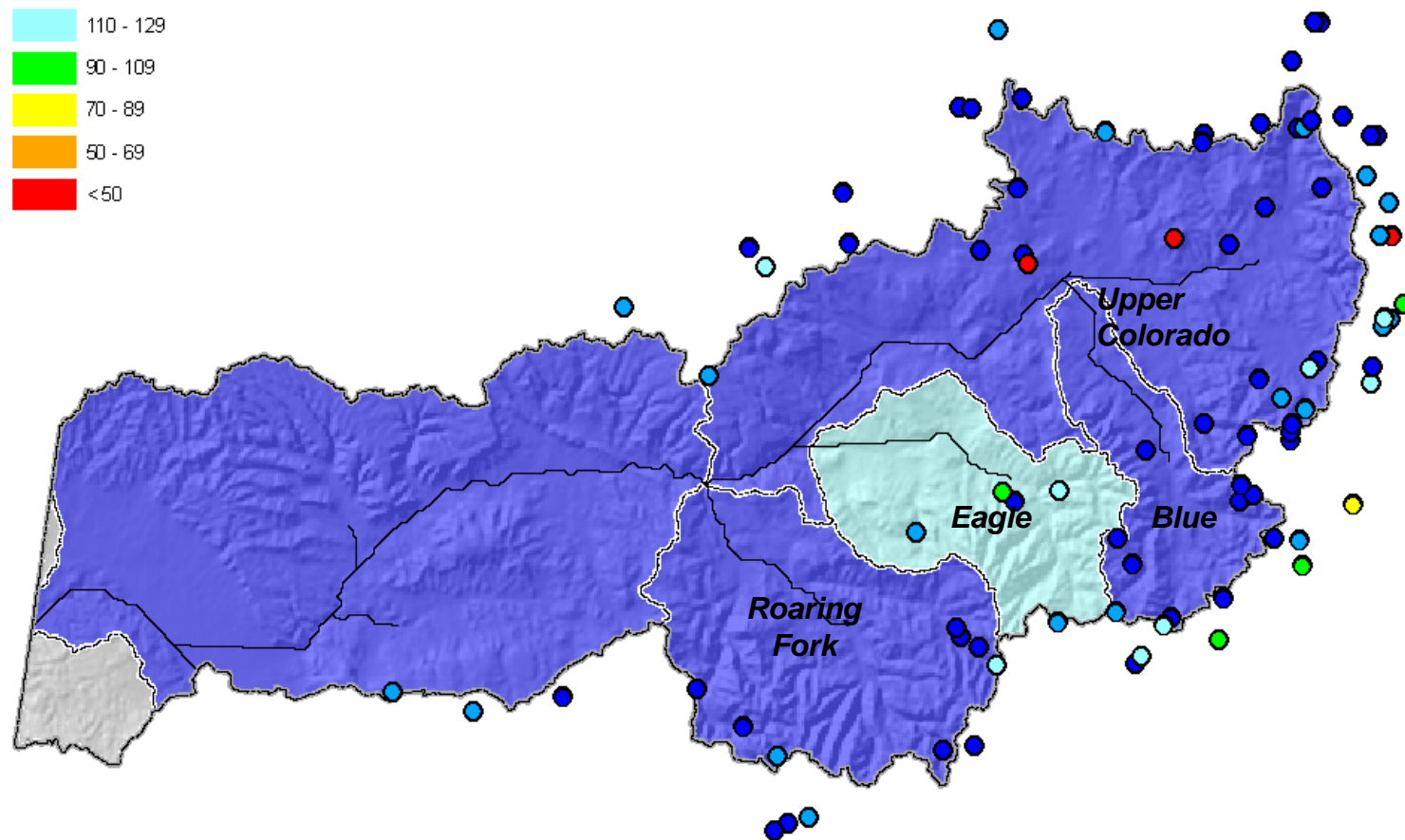


Colorado River Basin Snowpack Map

Percent of Average

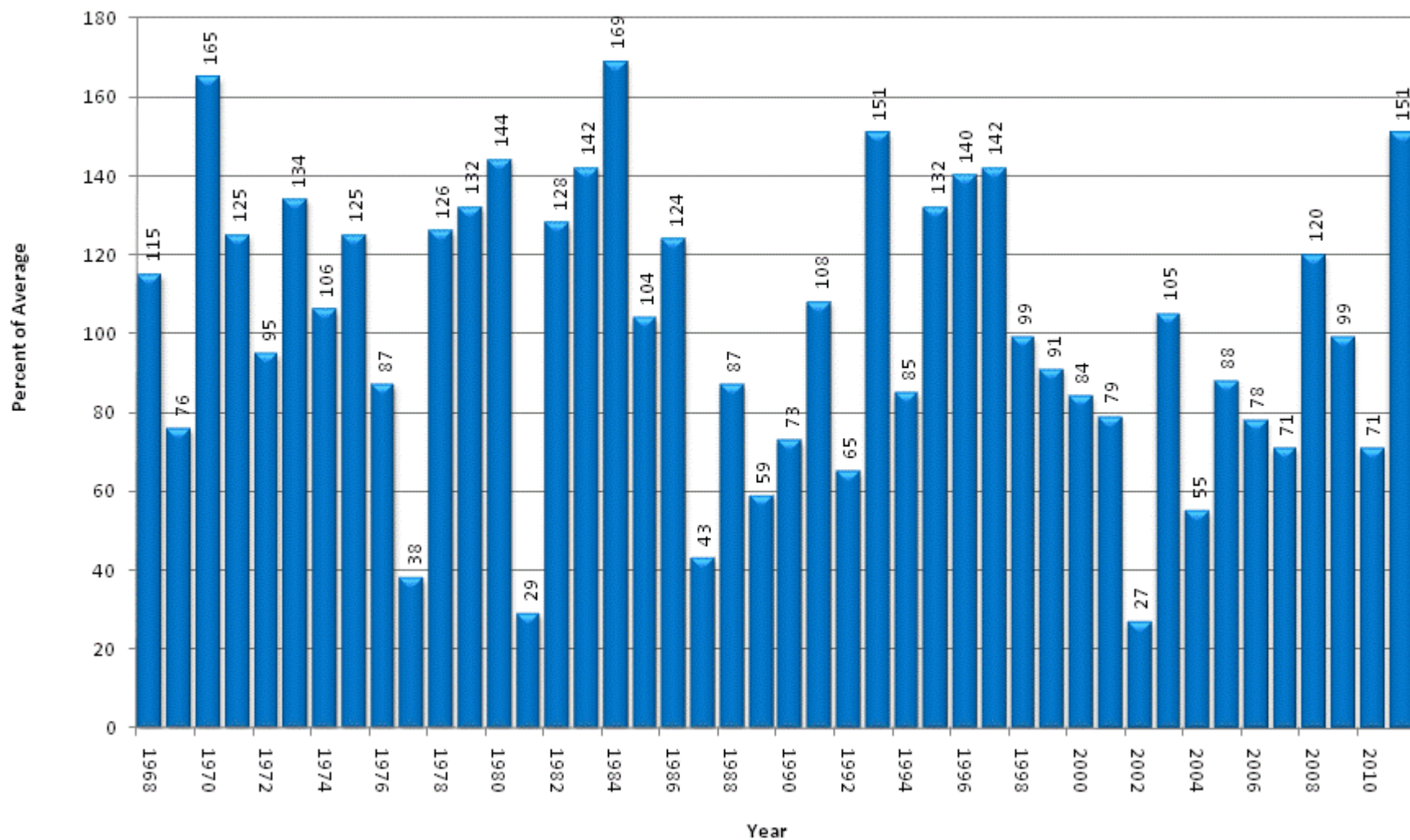


*Provisional Data
Subject to Revision*



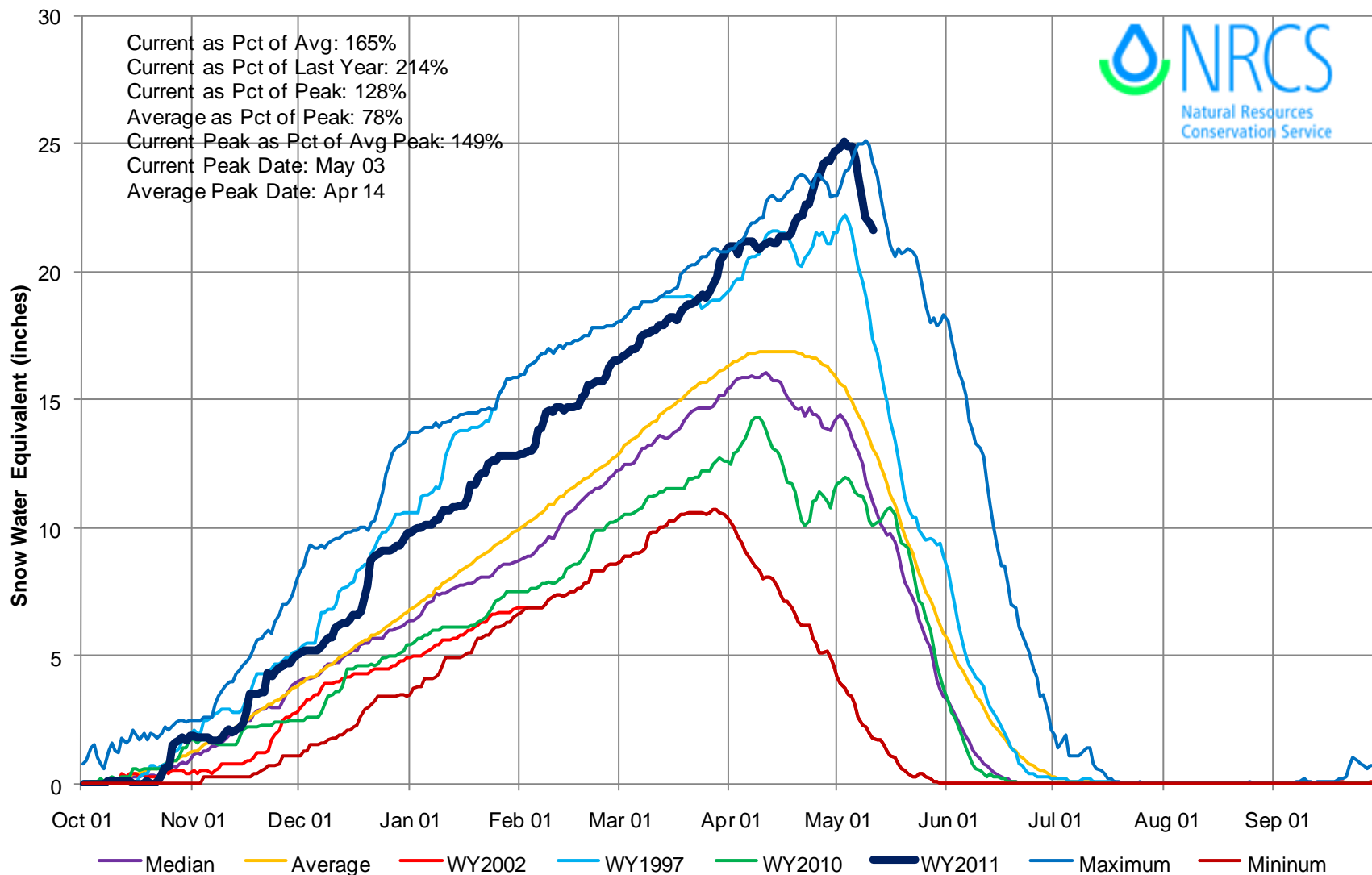
Current as of May 1, 2011

May 1 Total Colorado River Basin Snowpack



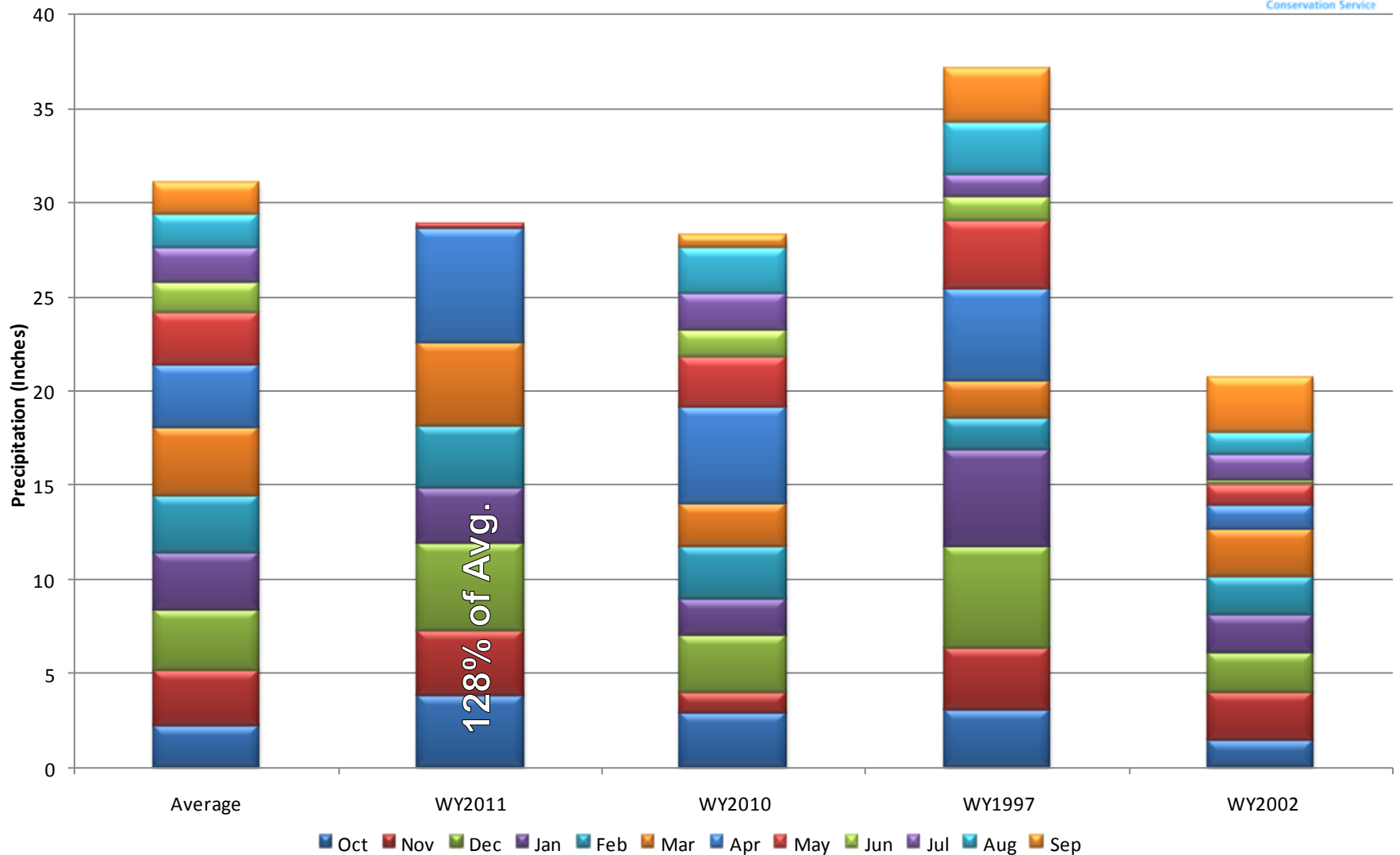
Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 11, 2011



Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 11, 2011

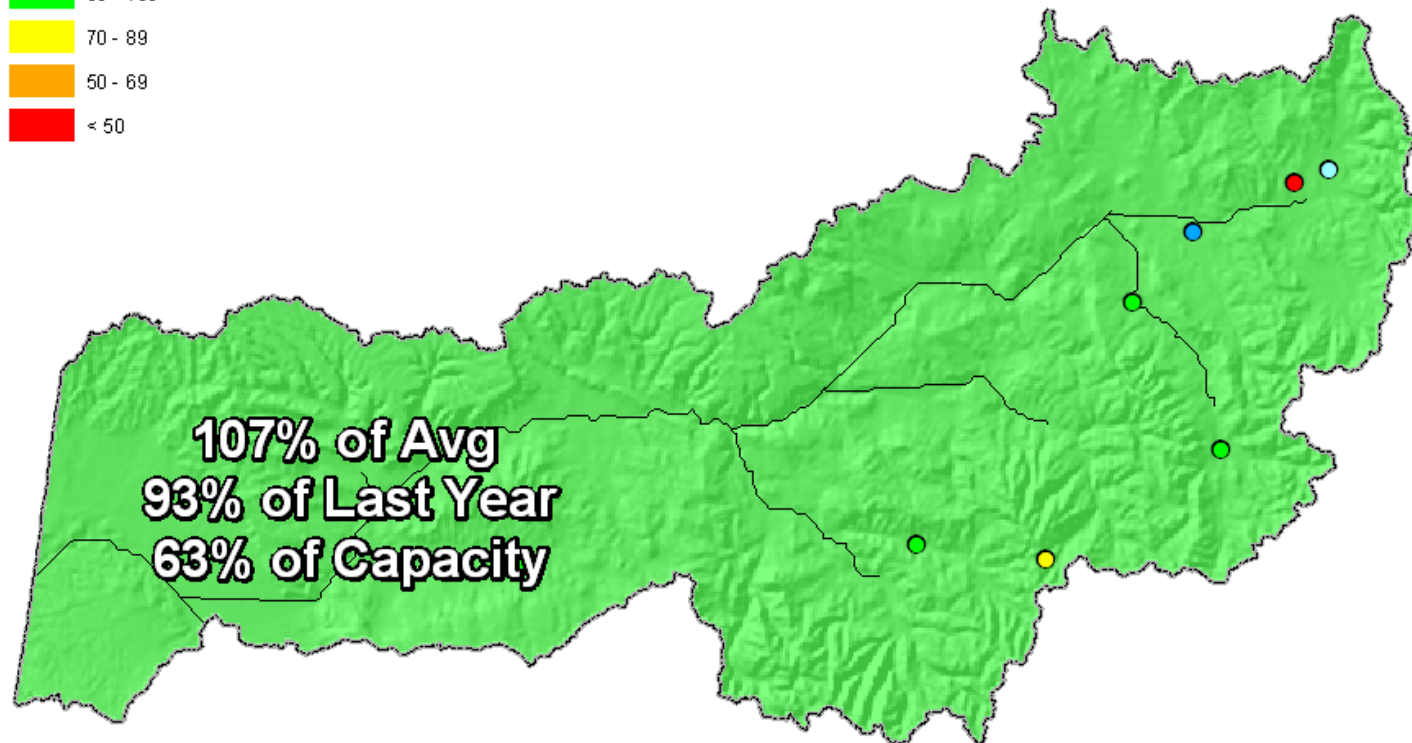


Colorado River Basin Reservoir Storage Map

Percent of Average

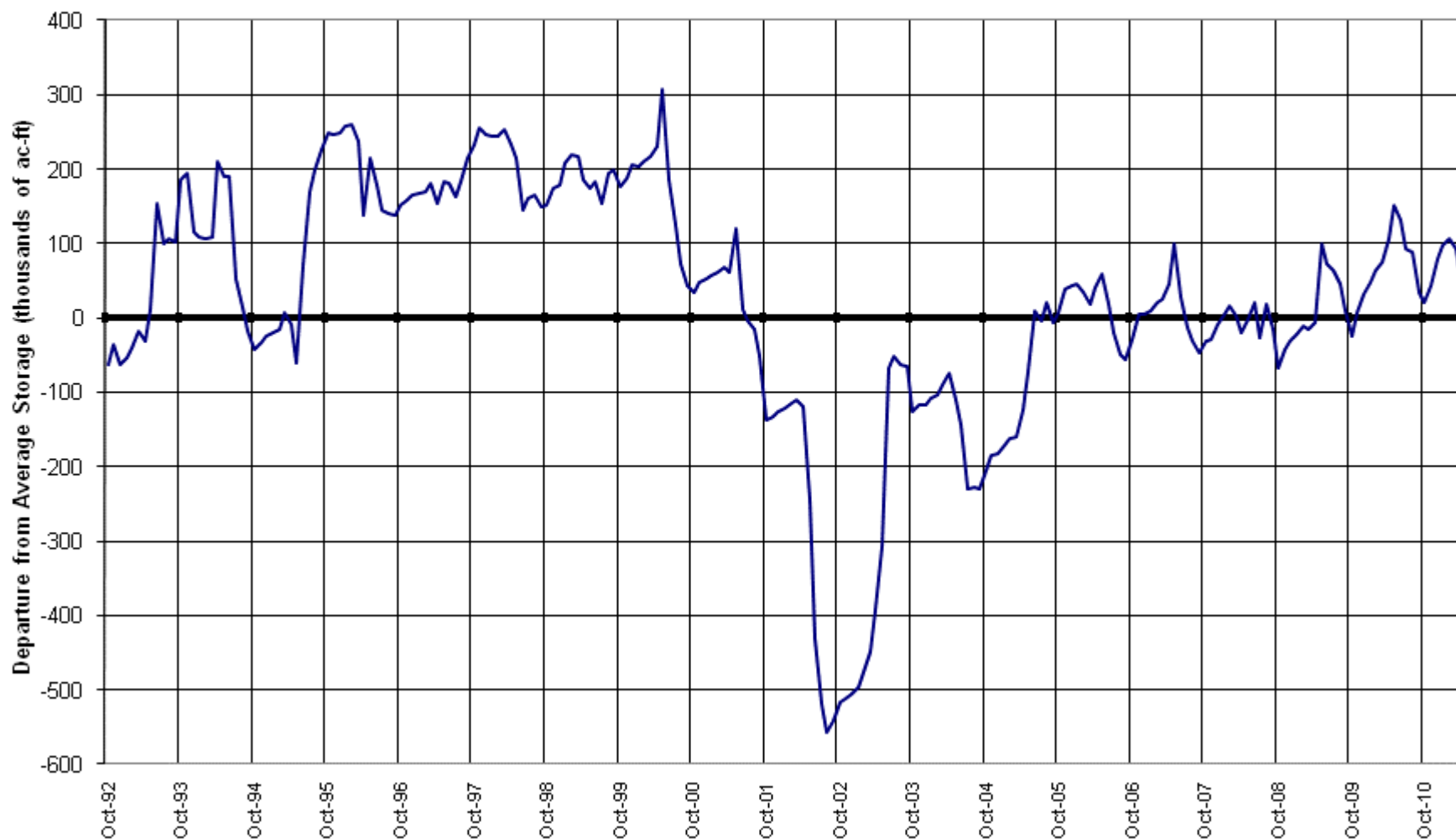


*Provisional Data
Subject to Revision*



End of April, 2011

COLORADO RIVER BASIN
Reservoir Storage
Departure from Average

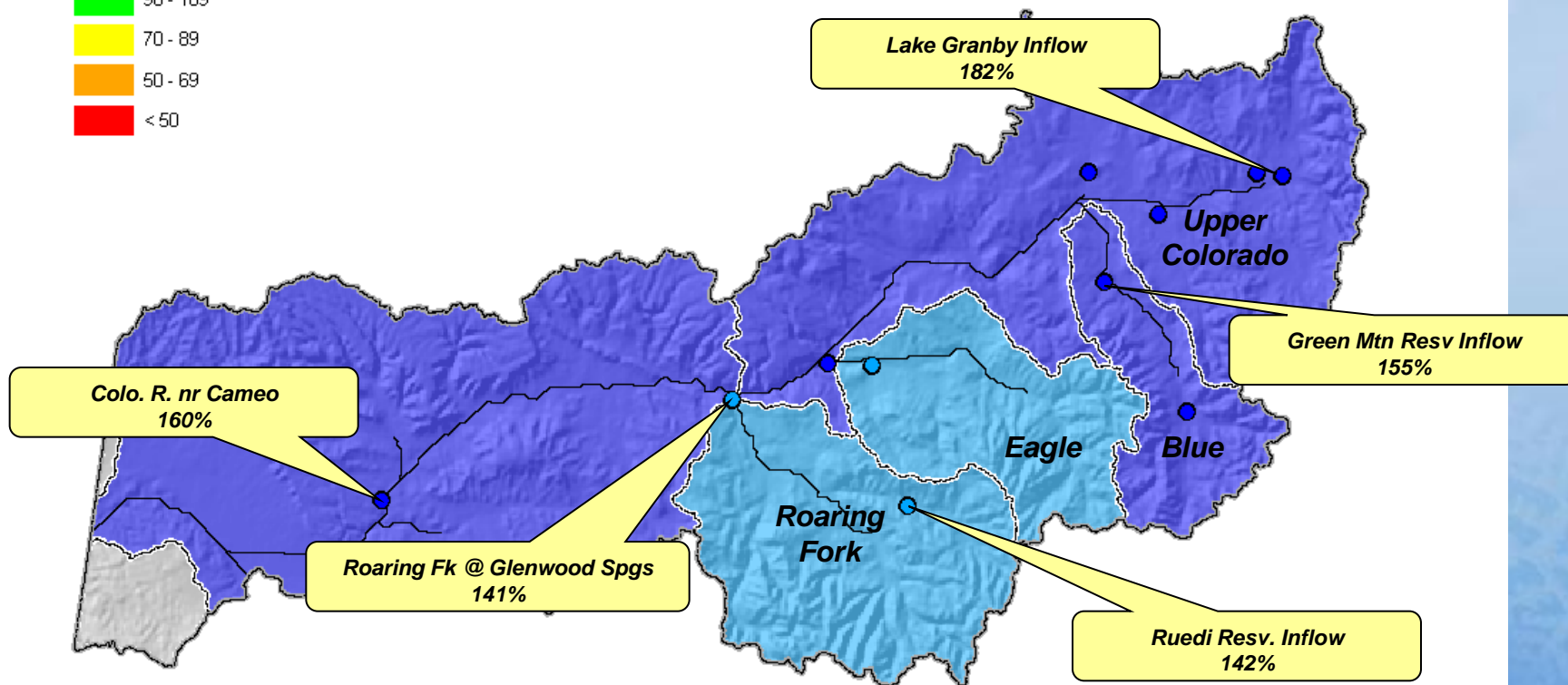


Colorado River Basin Streamflow Forecast Map

Percent of Average



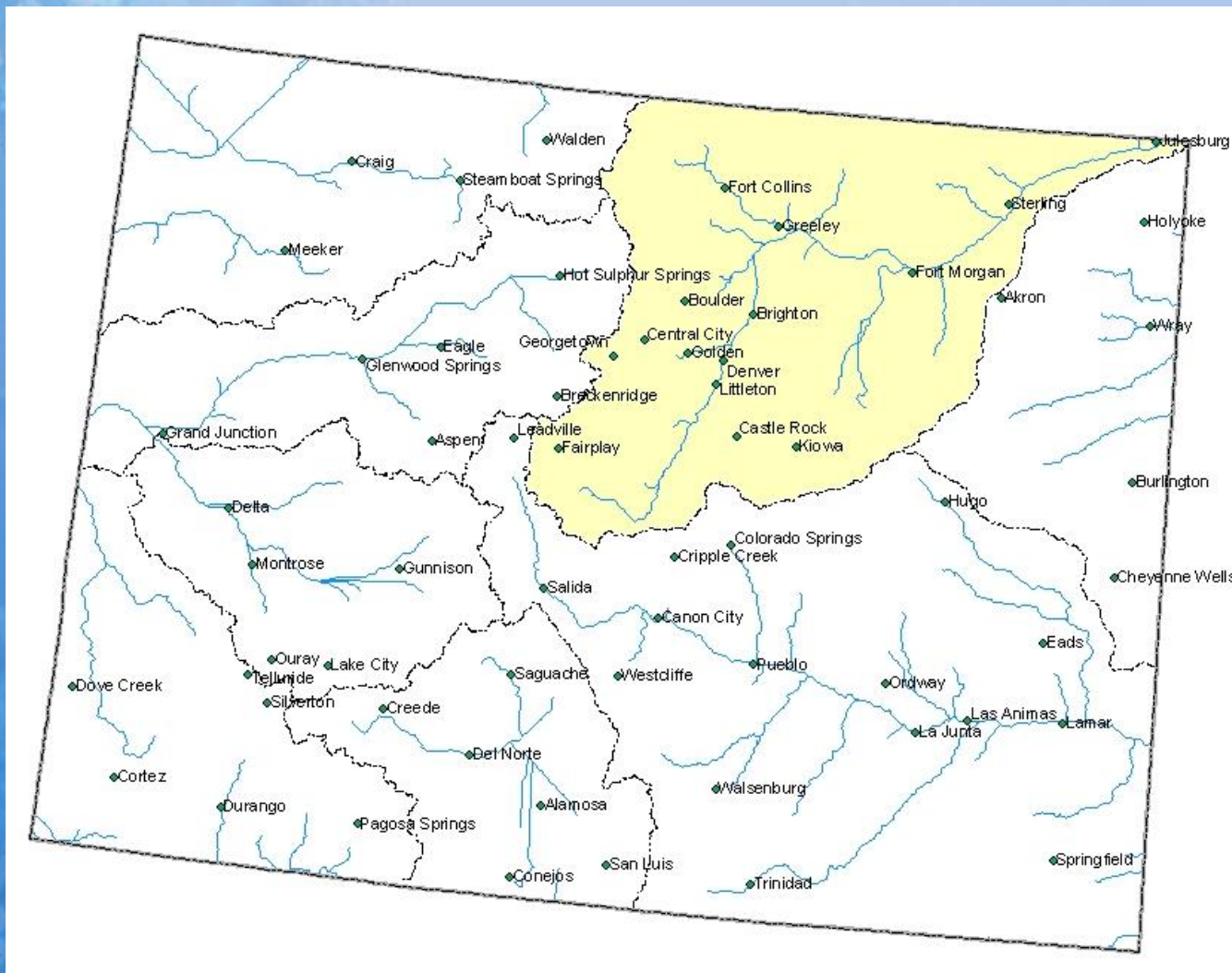
*Provisional Data
Subject to Revision*



Current as of May 1, 2011

Lake Powell Inflow: Apr-Jul 11.5 million ac-ft 145% avg.
As of 5/01/2011

South Platte River Basin Summary

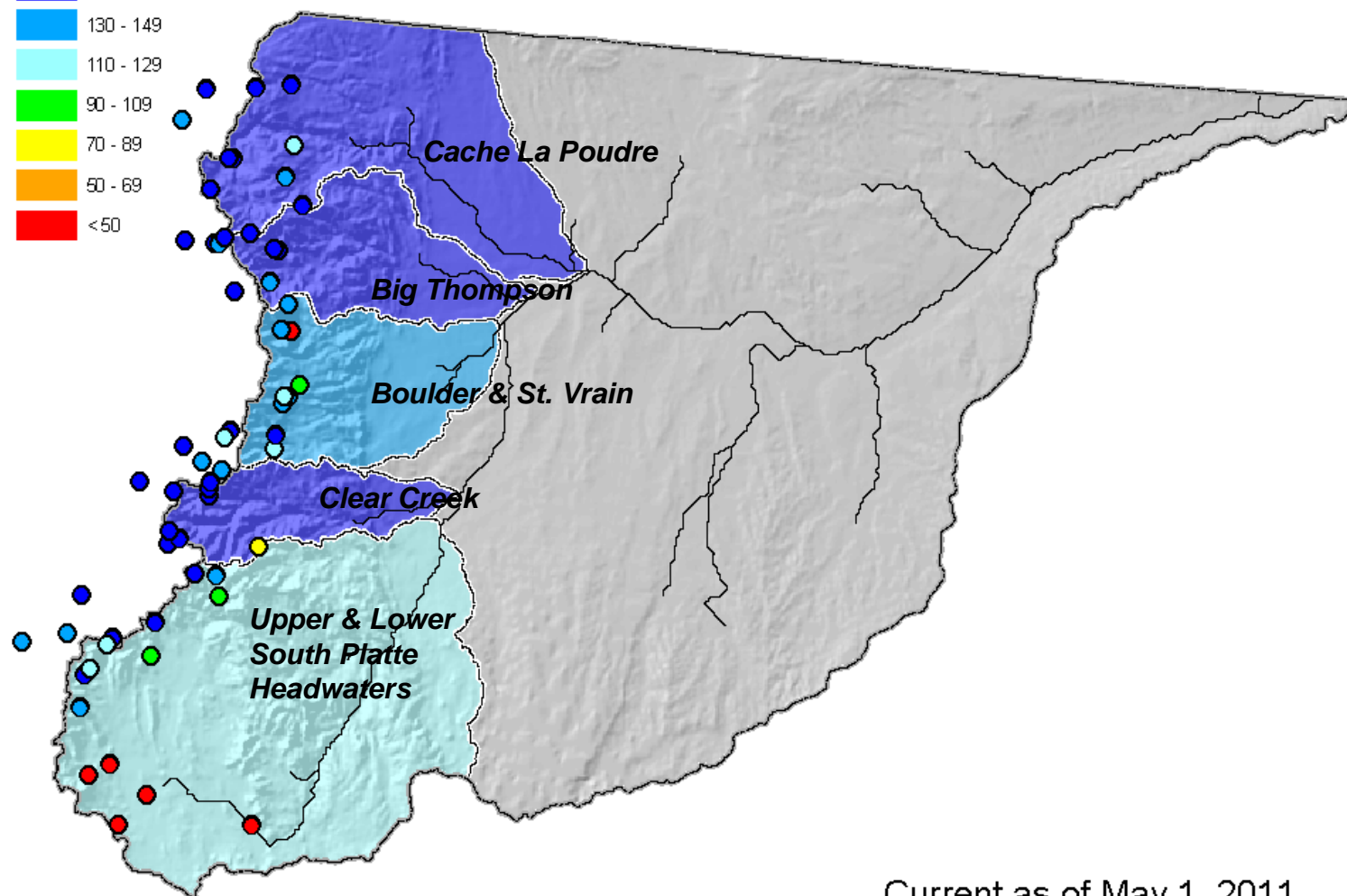


South Platte River Basin Snowpack Map

Percent of Average

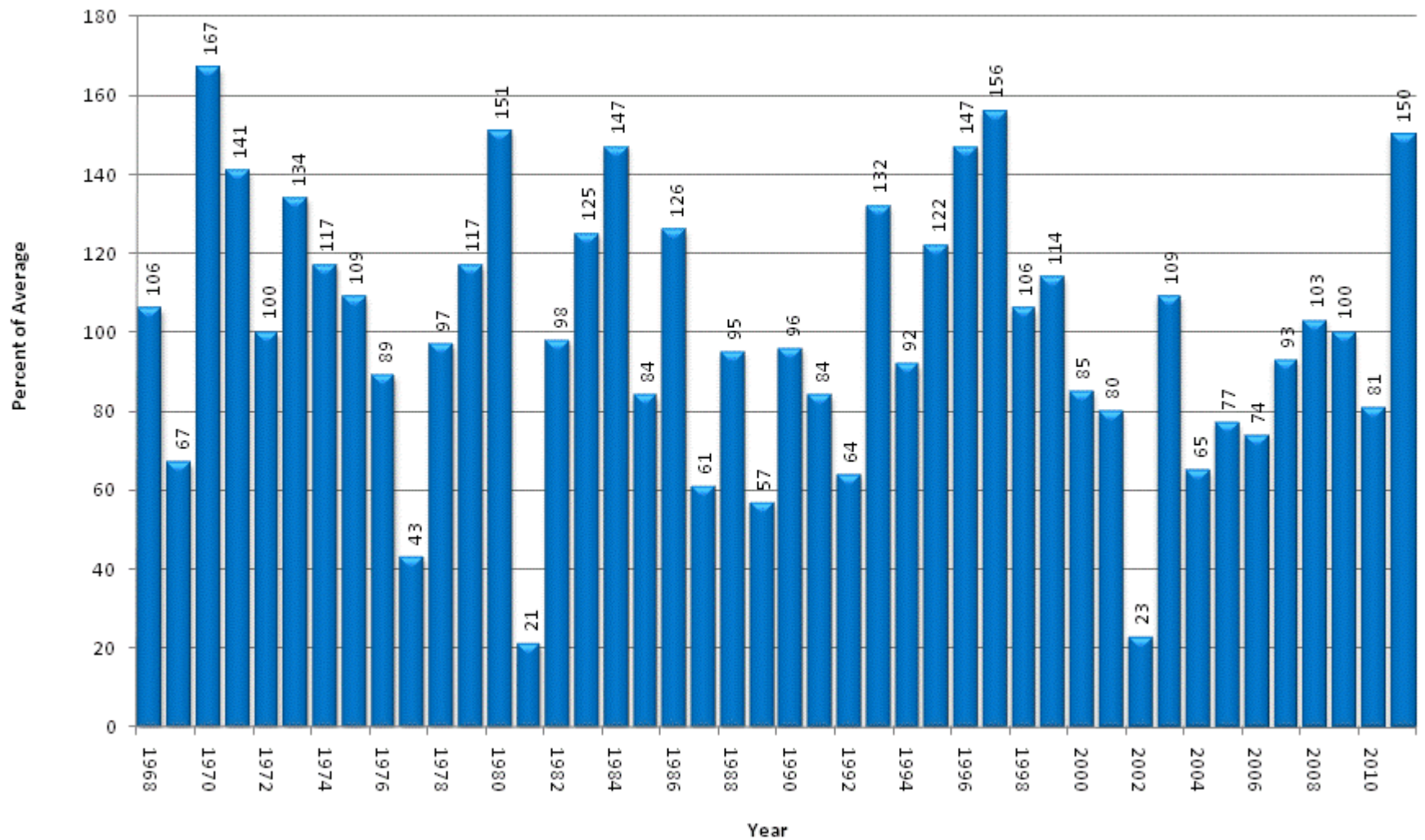


*Provisional Data
Subject to Revision*



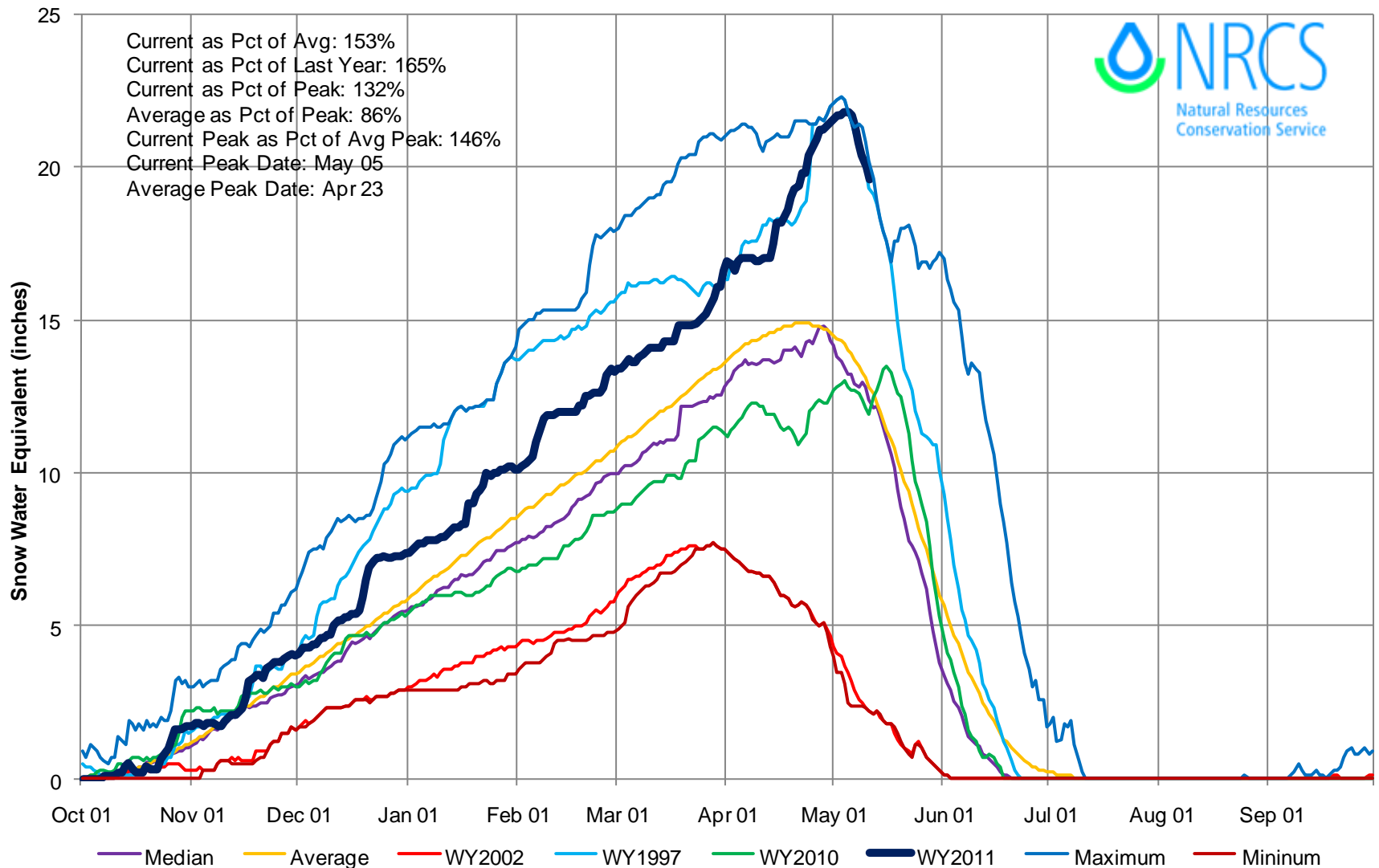
Current as of May 1, 2011

May 1 Total South Platte River Basin Snowpack



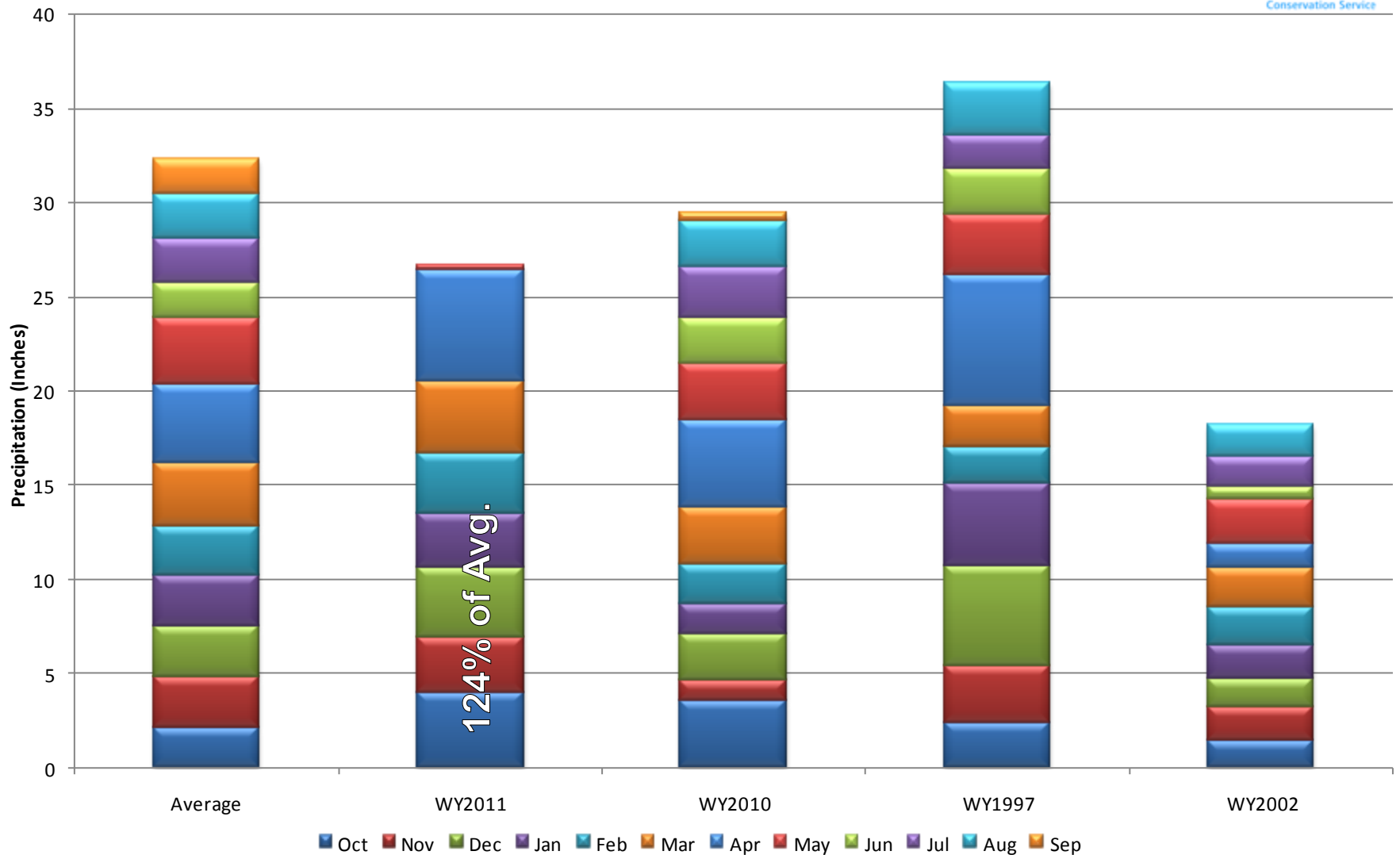
South Platte River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 11, 2011



South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 11, 2011

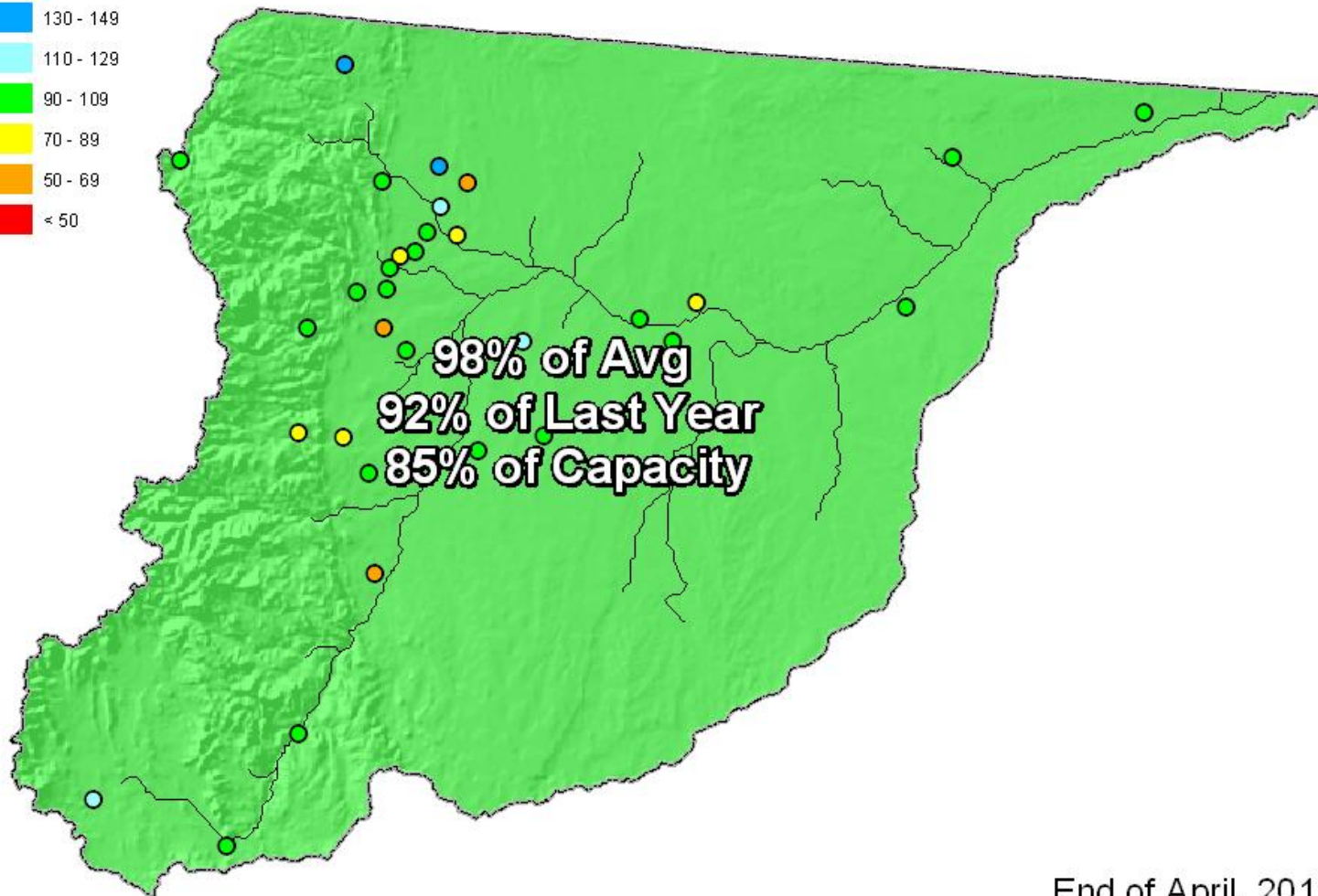


South Platte River Basin Reservoir Storage Map

Percent of Average

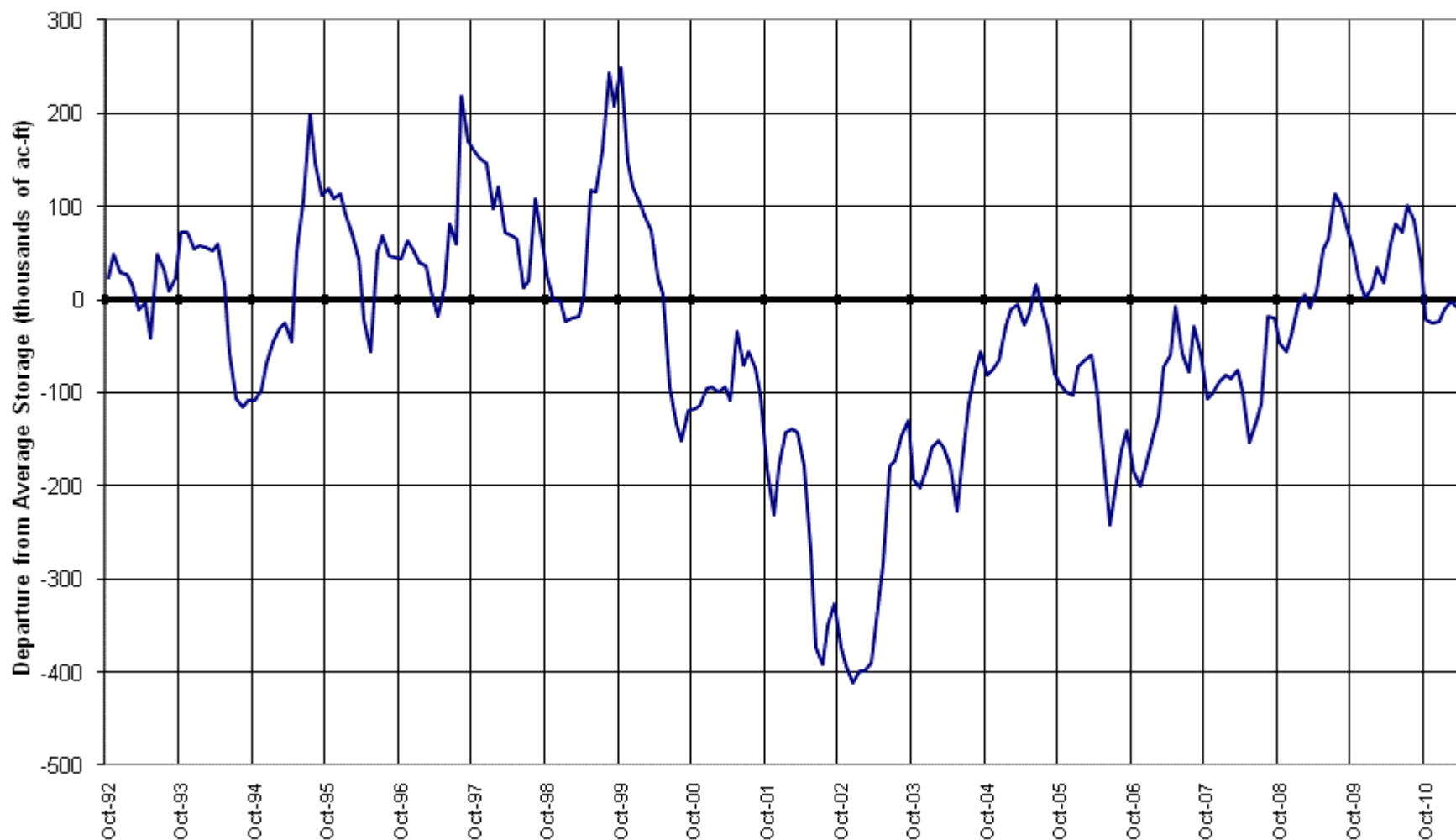


*Provisional Data
Subject to Revision*



End of April, 2011

SOUTH PLATTE RIVER BASIN
Reservoir Storage
Departure from Average

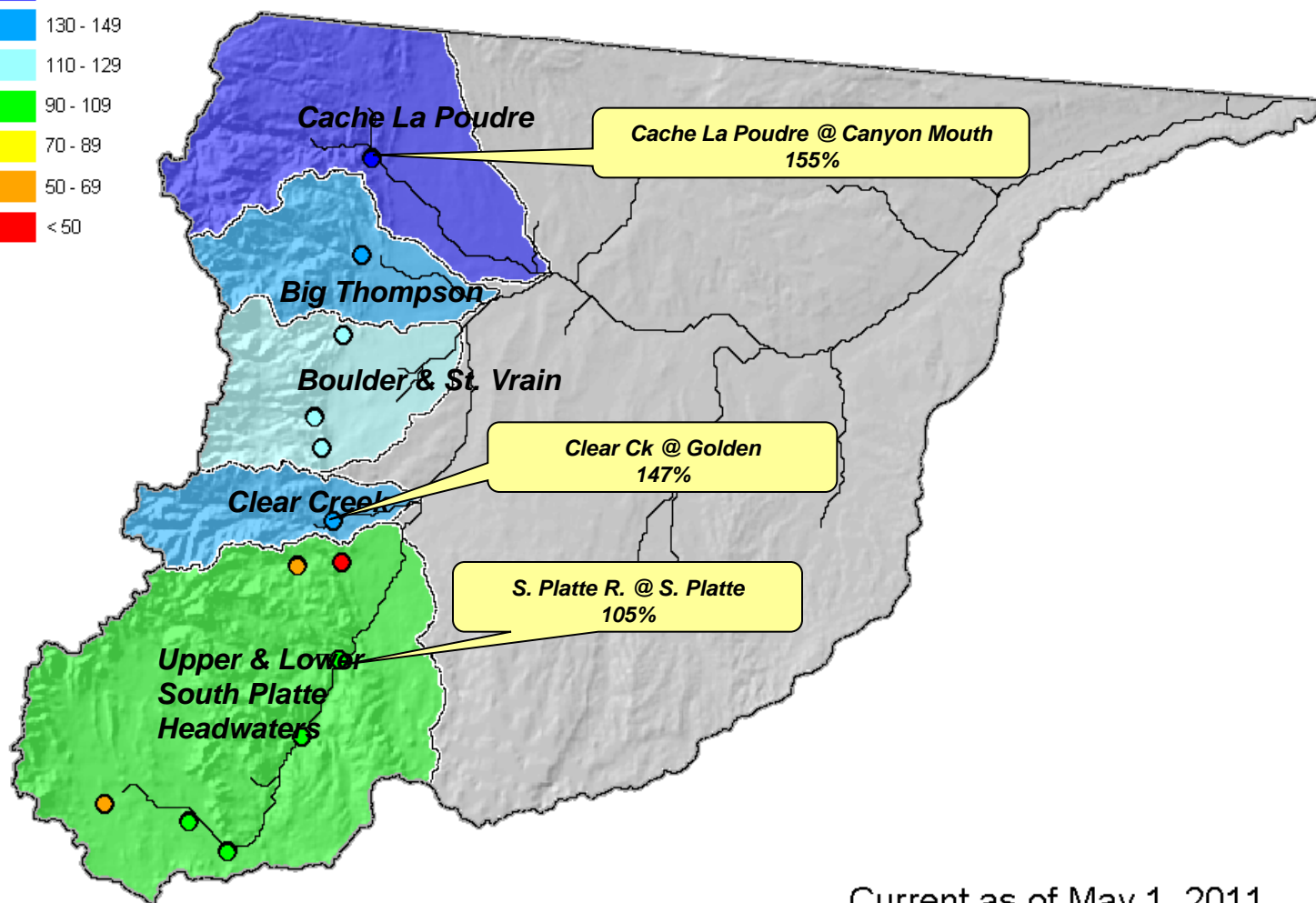


South Platte River Basin Streamflow Forecast Map

Percent of Average

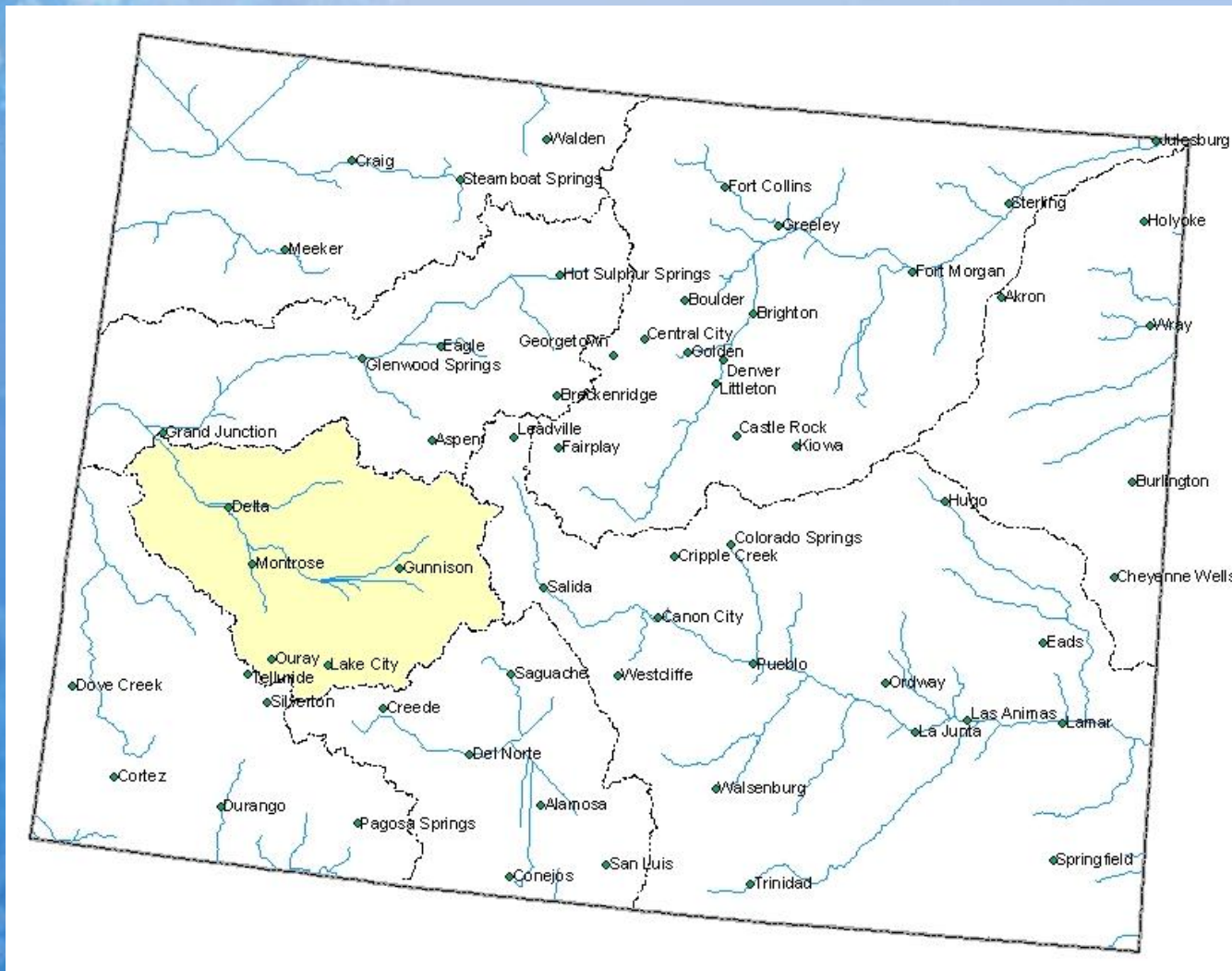


*Provisional Data
Subject to Revision*



Current as of May 1, 2011

Gunnison River Basin Summary

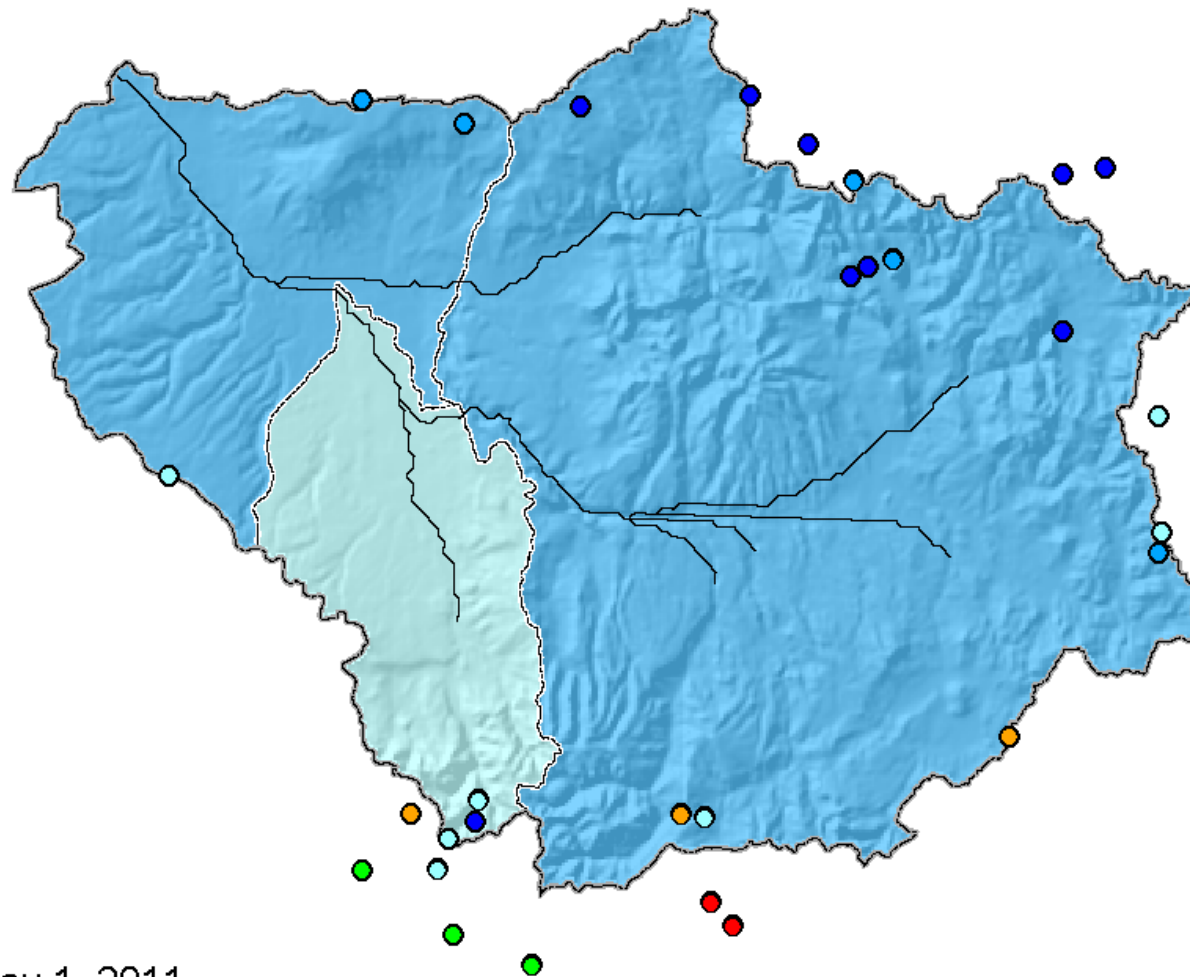


Gunnison River Basin Snowpack Map

Percent of Average

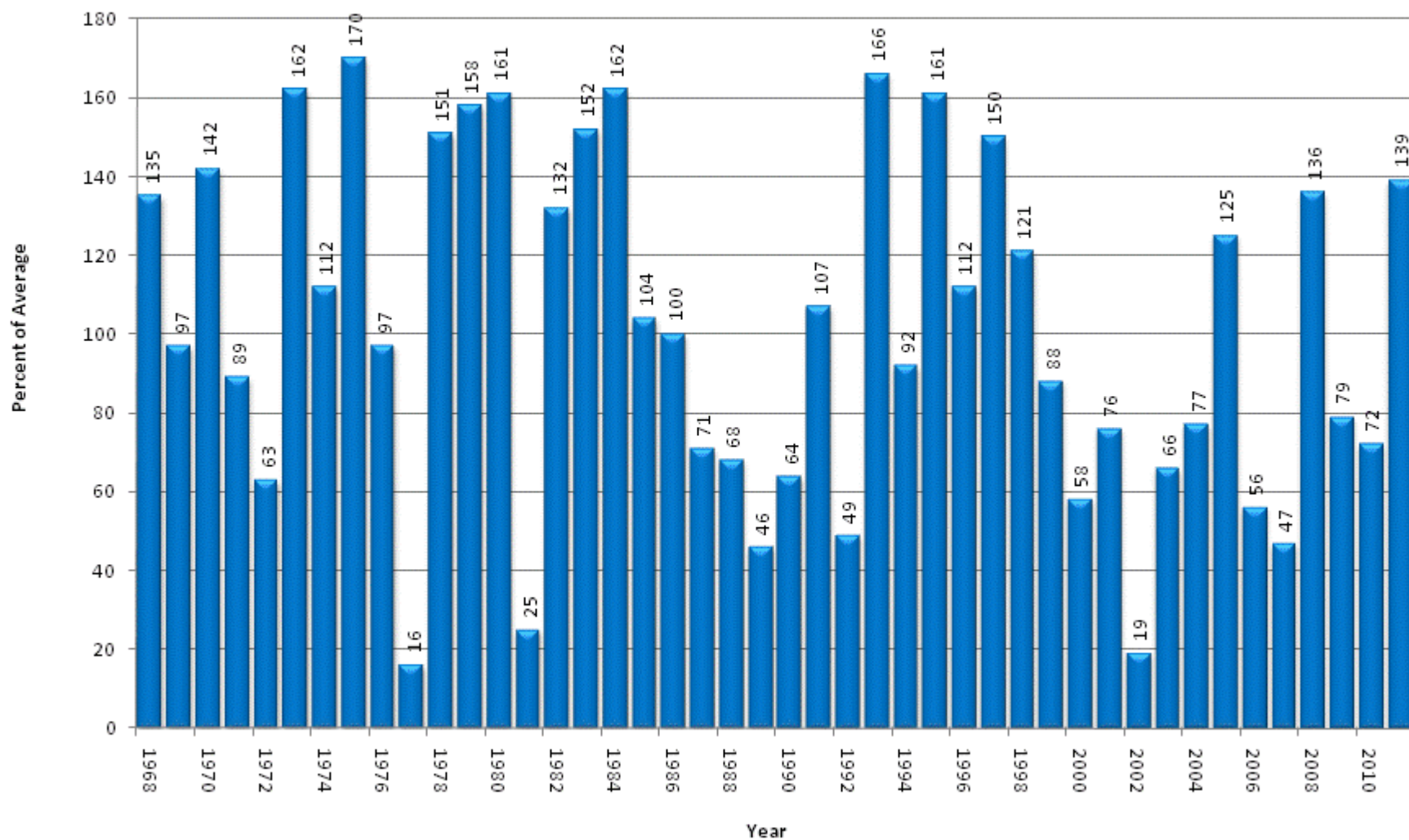


*Provisional Data
Subject to Revision*



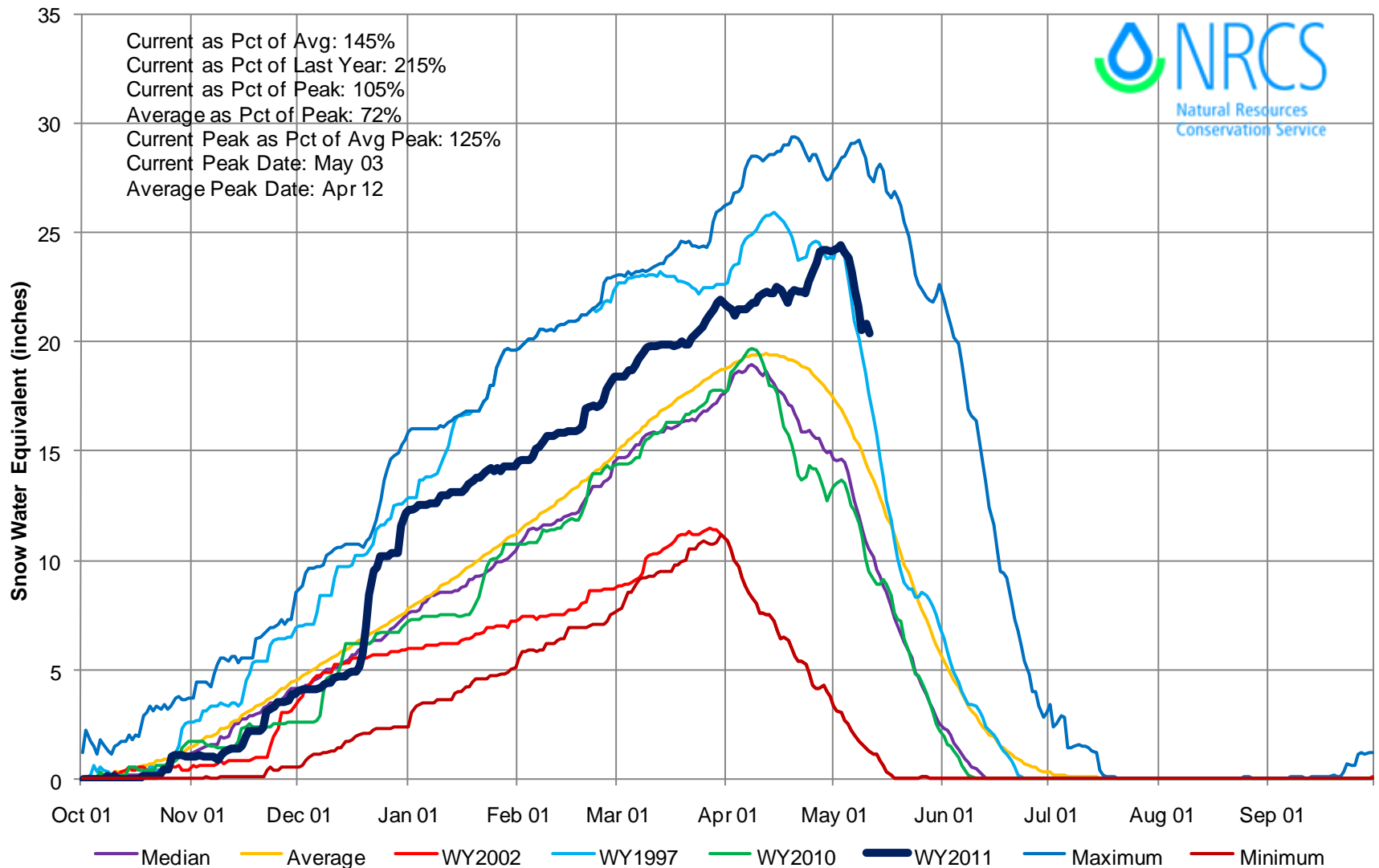
Current as of May 1, 2011

May 1 Total Gunnison River Basin Snowpack



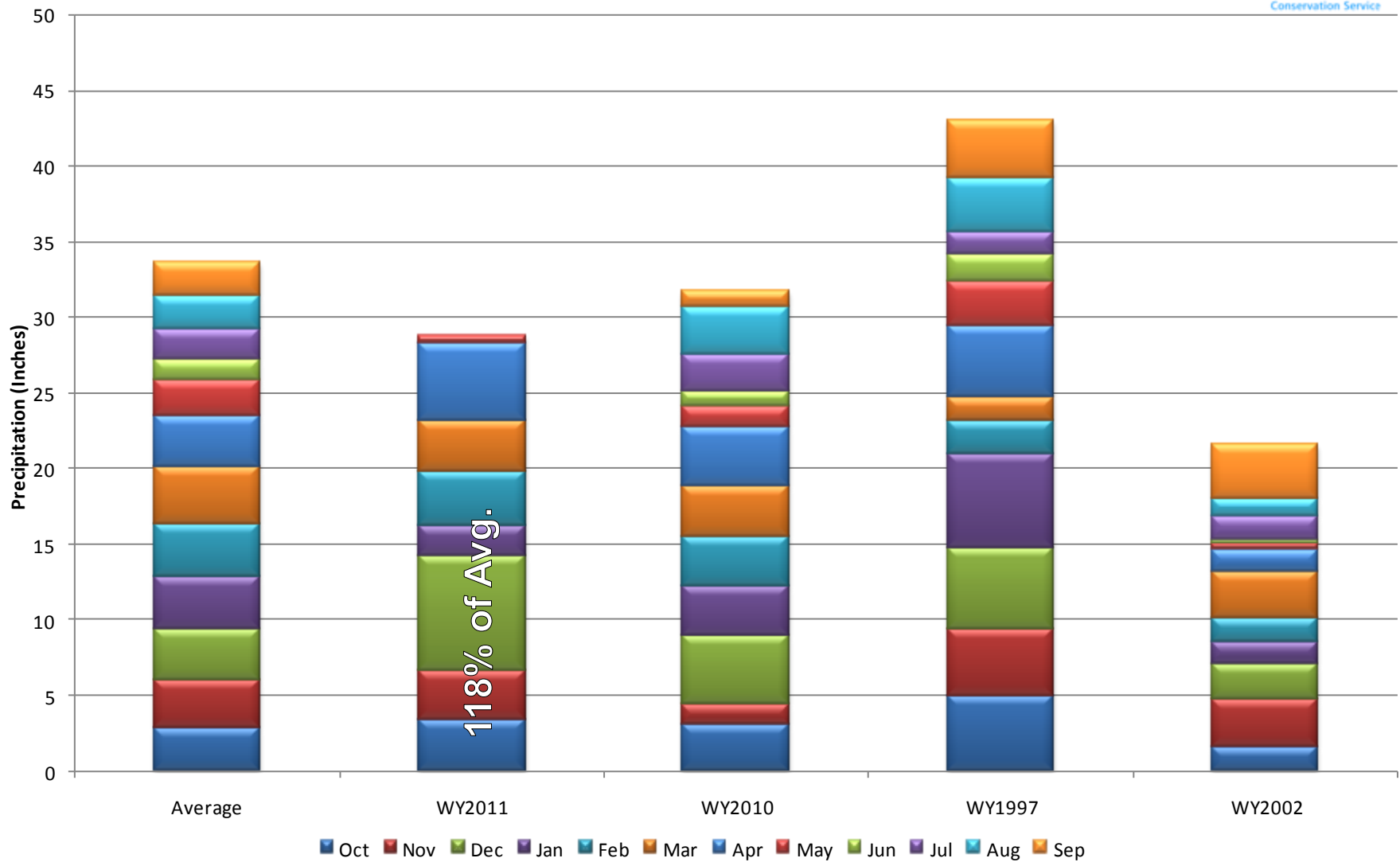
Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 11, 2011



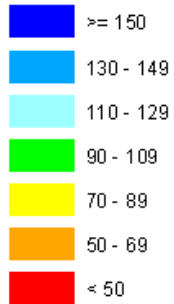
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 11, 2011

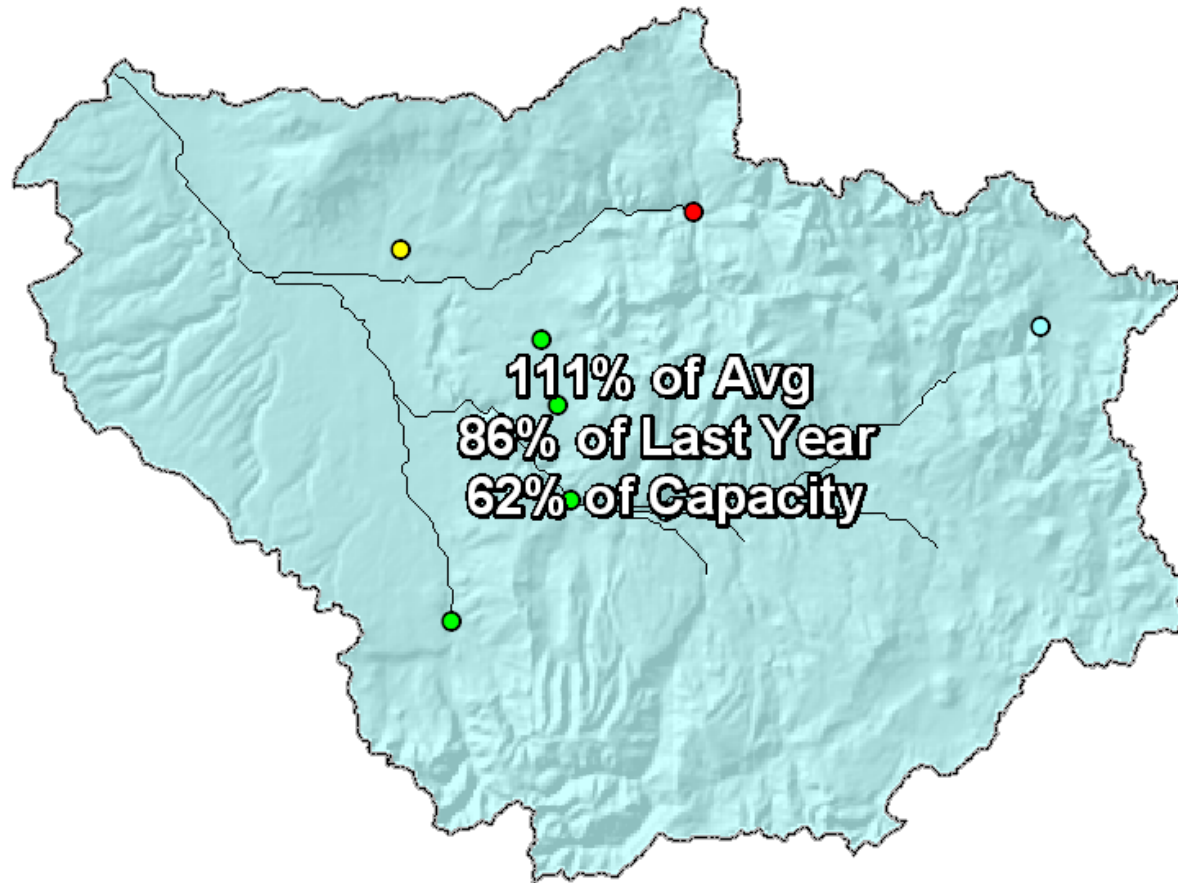


Gunnison River Basin Reservoir Storage Map

Percent of Average

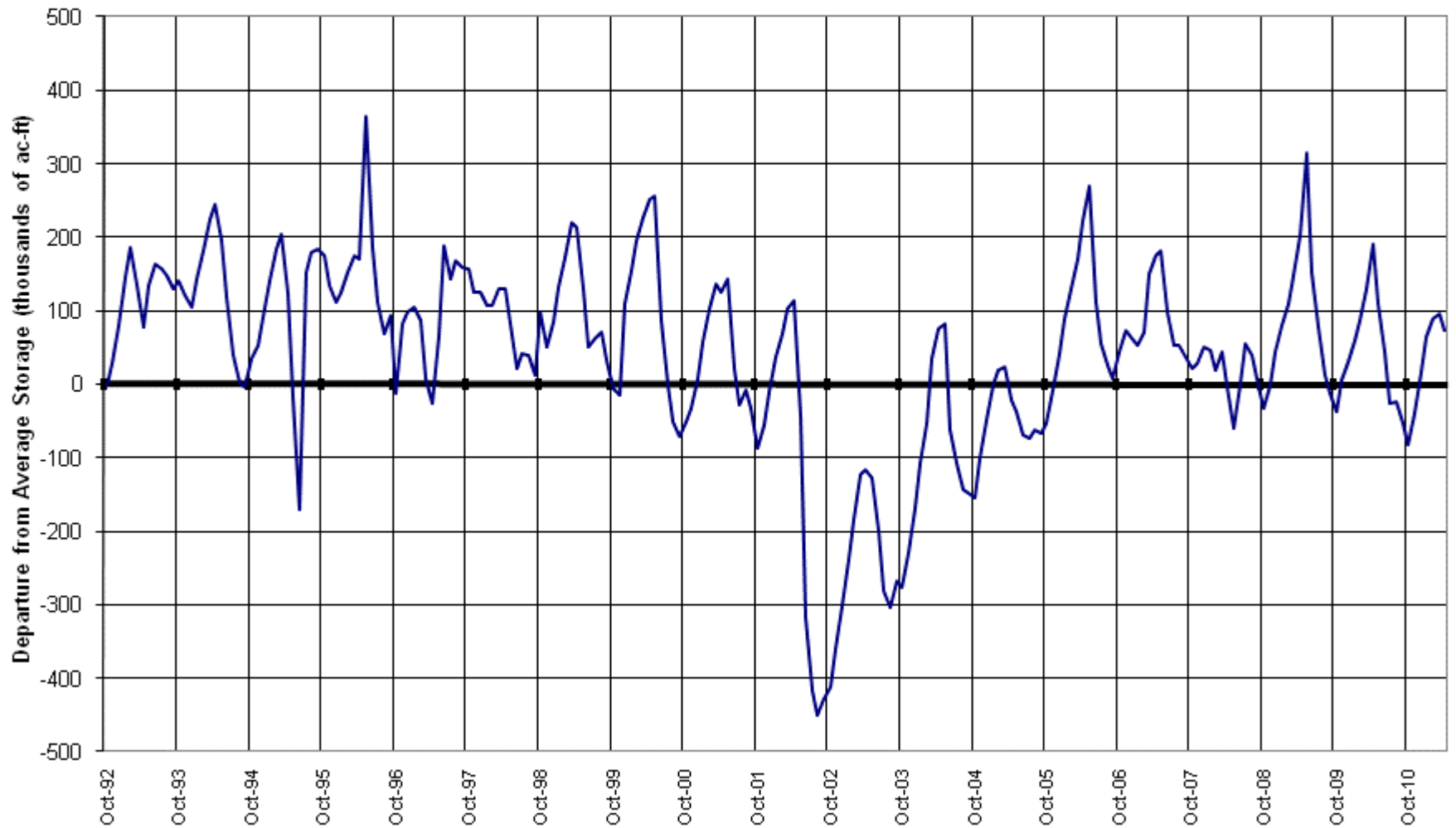


*Provisional Data
Subject to Revision*



End of April, 2011

GUNNISON RIVER BASIN
Reservoir Storage
Departure from Average

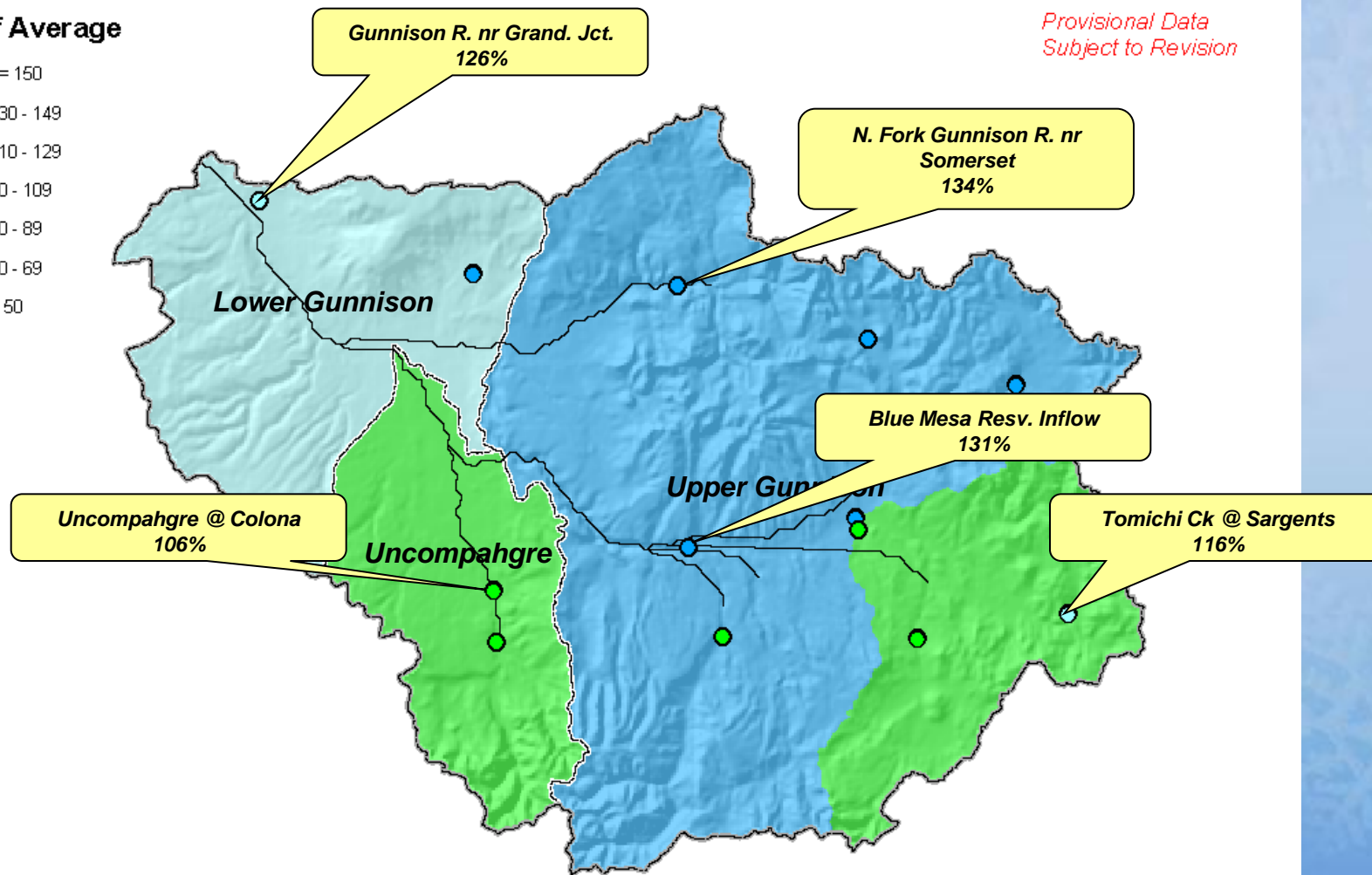


Gunnison River Basin Streamflow Forecast Map

Percent of Average

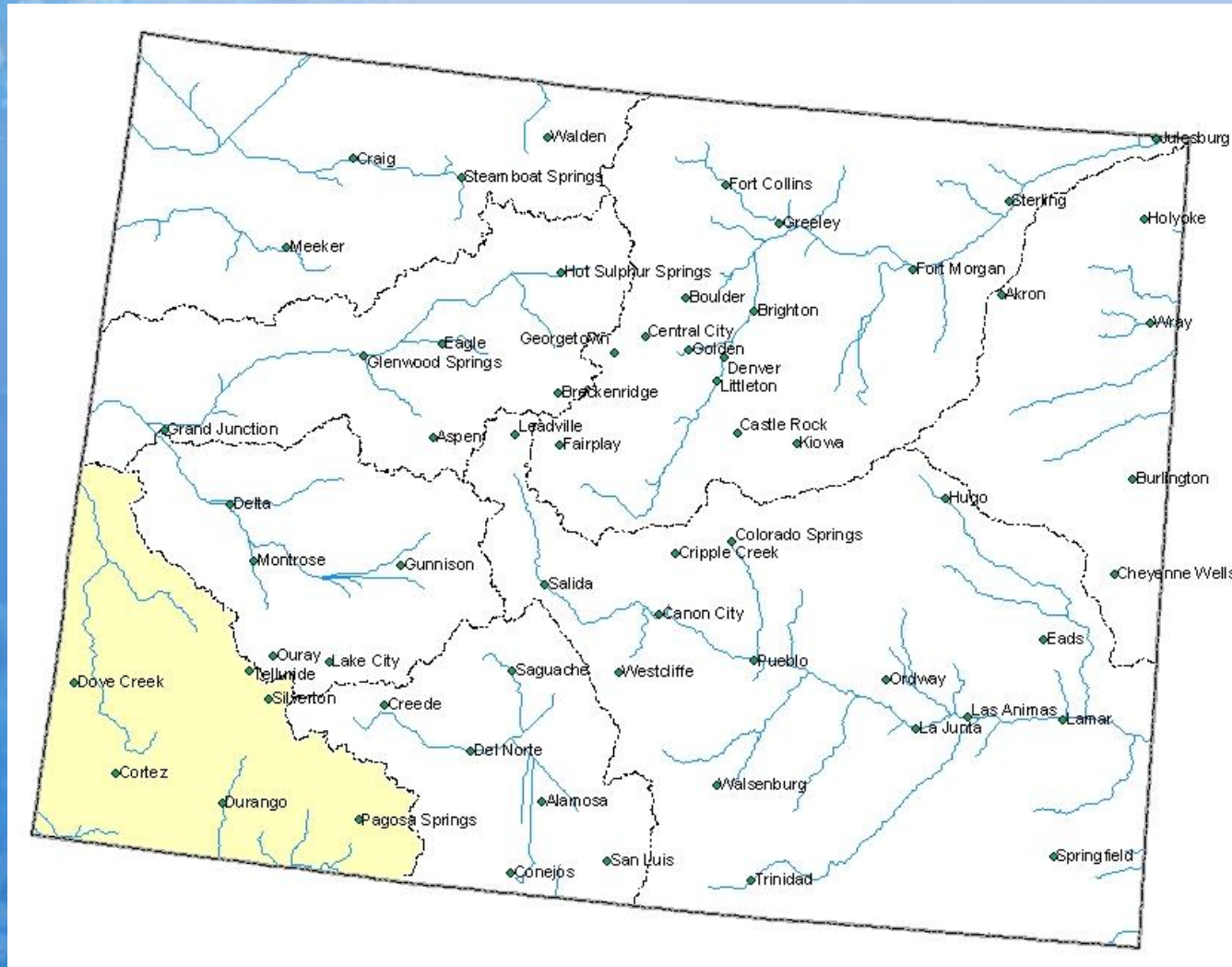


*Provisional Data
Subject to Revision*



Current as of May 1, 2011

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

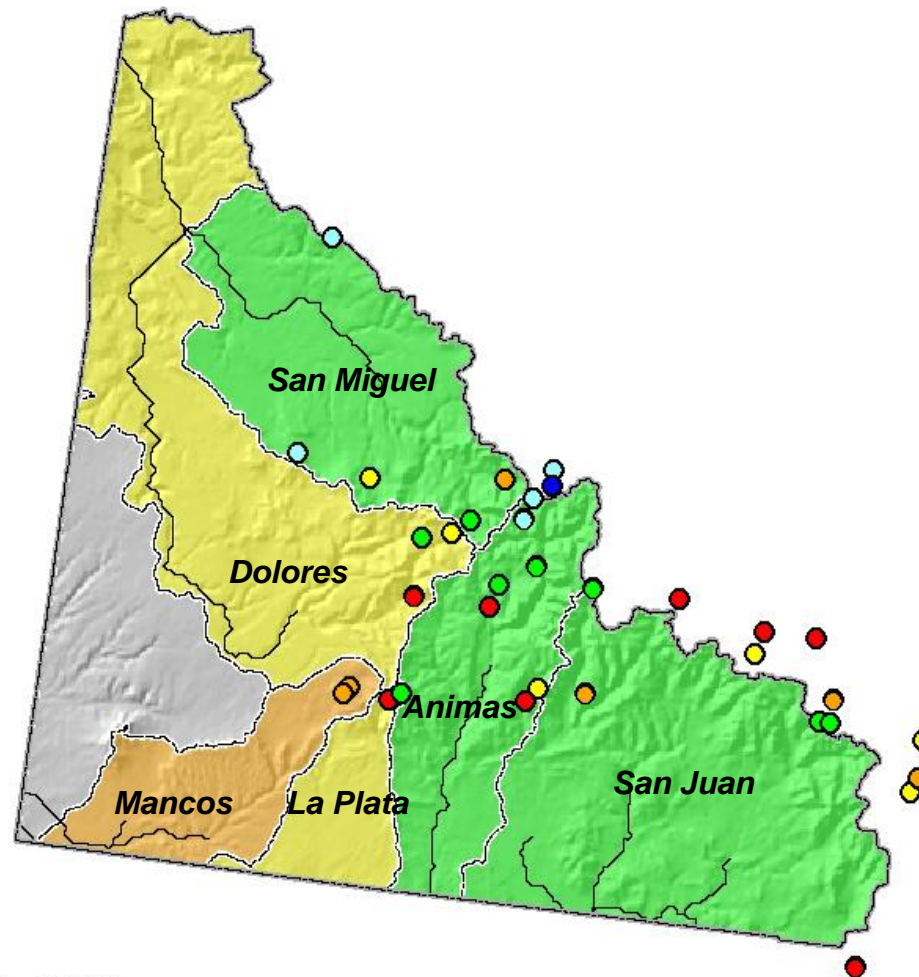


San Miguel, Dolores, Animas and San Juan River Basins Snowpack Map

Percent of Average

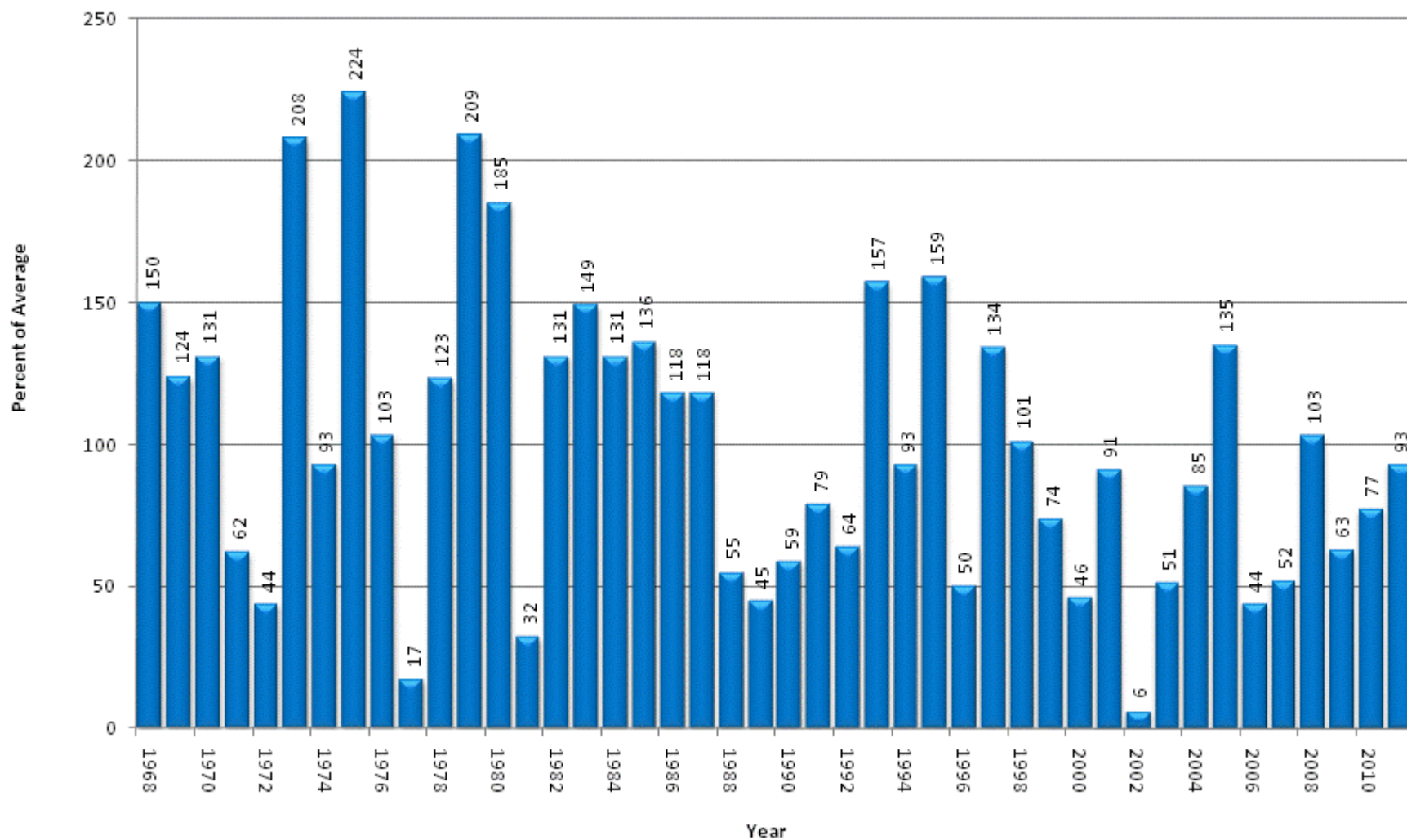


*Provisional Data
Subject to Revision*



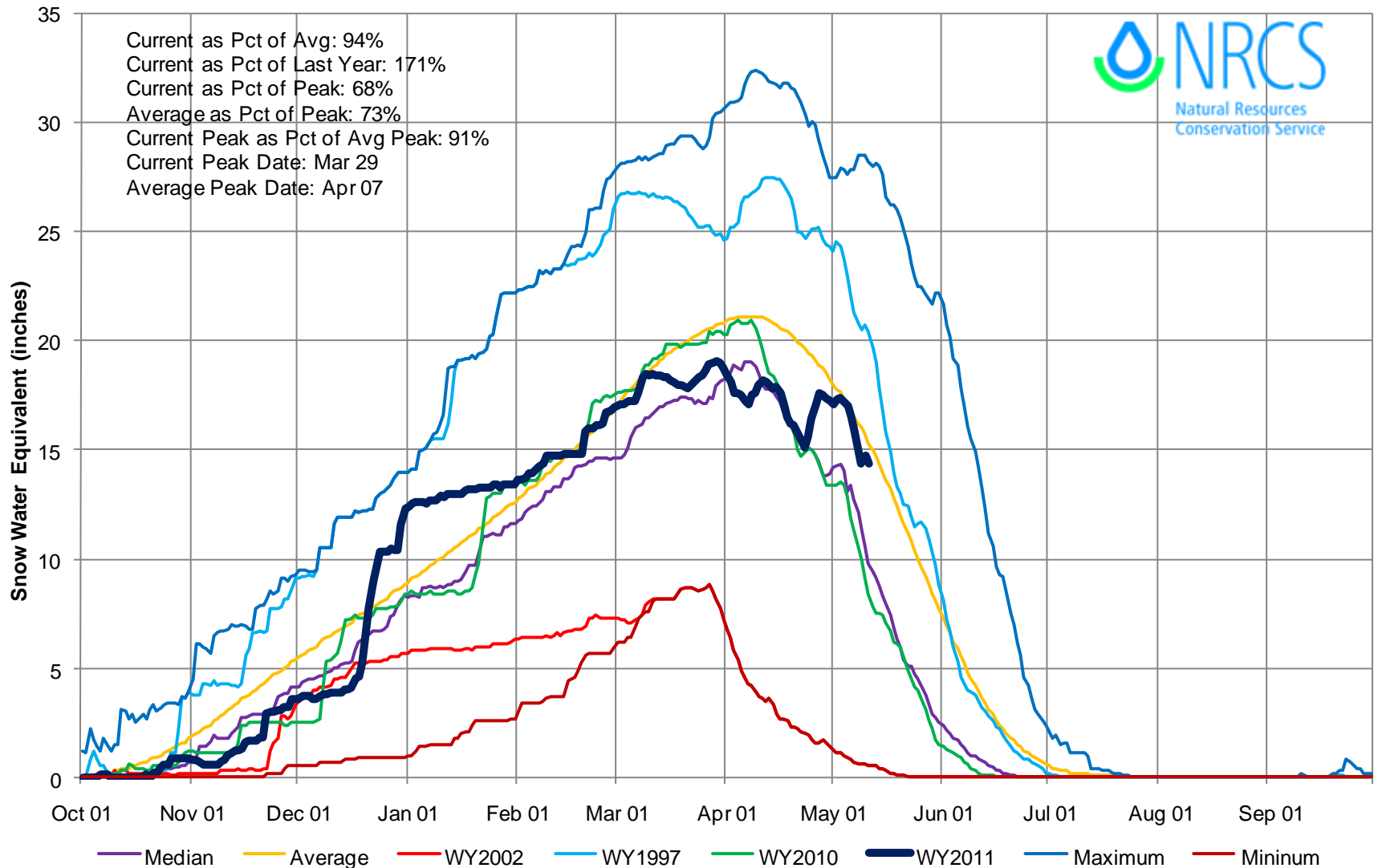
Current as of May 1, 2011

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



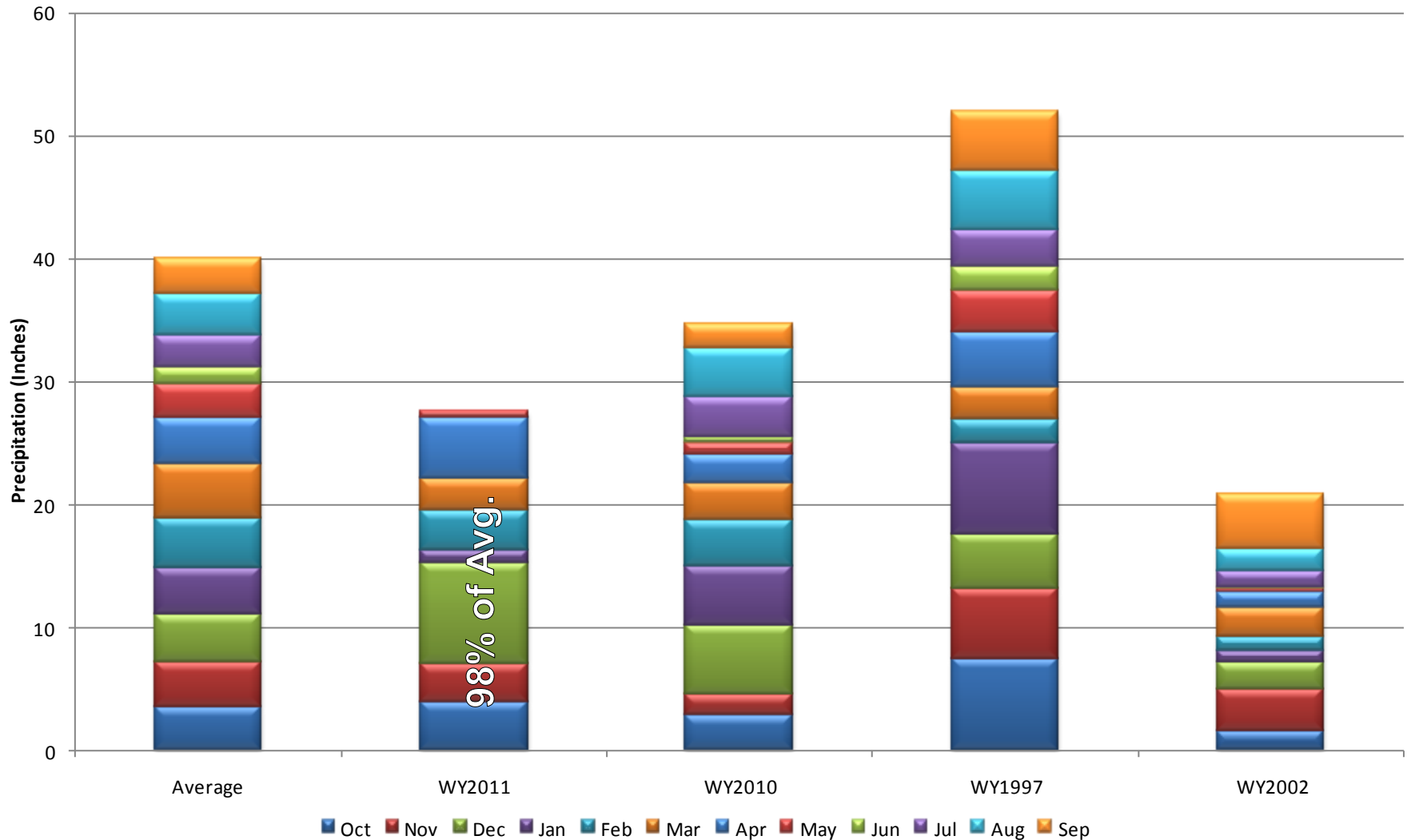
San Miguel, Dolores, Animas & San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 11, 2011



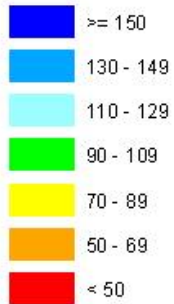
San Miguel, Dolores, Animas & San Juan River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 11, 2011

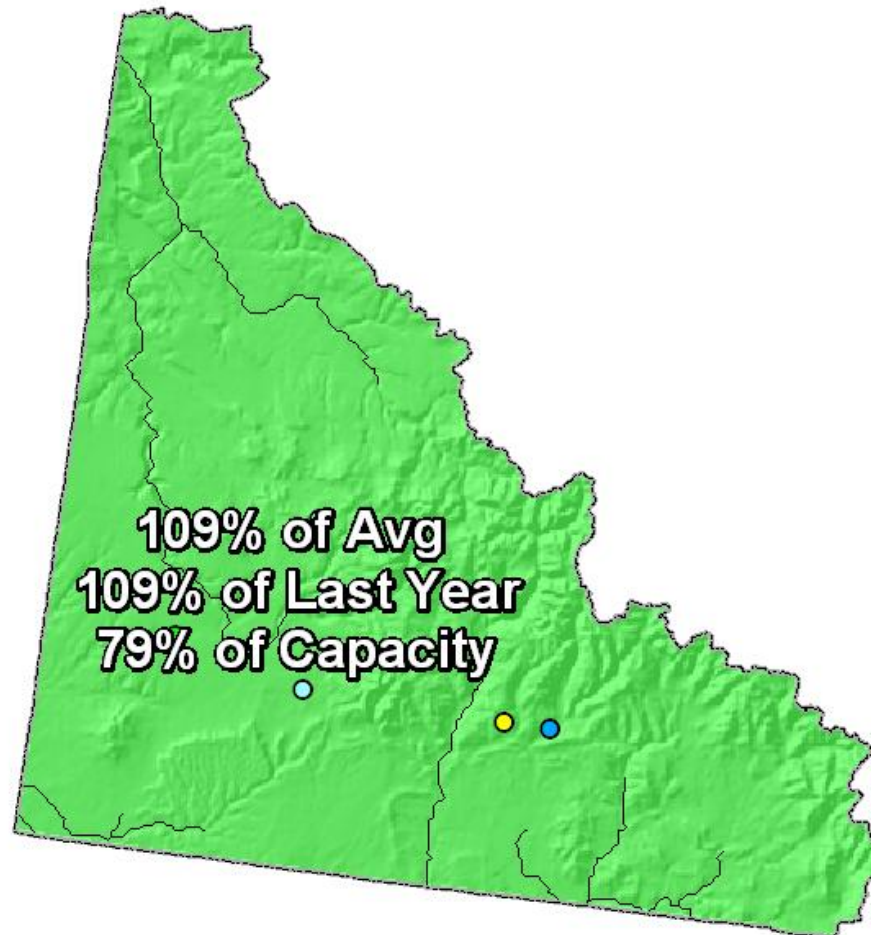


San Miguel, Dolores, Animas and San Juan River Basins Reservoir Storage Map

Percent of Average

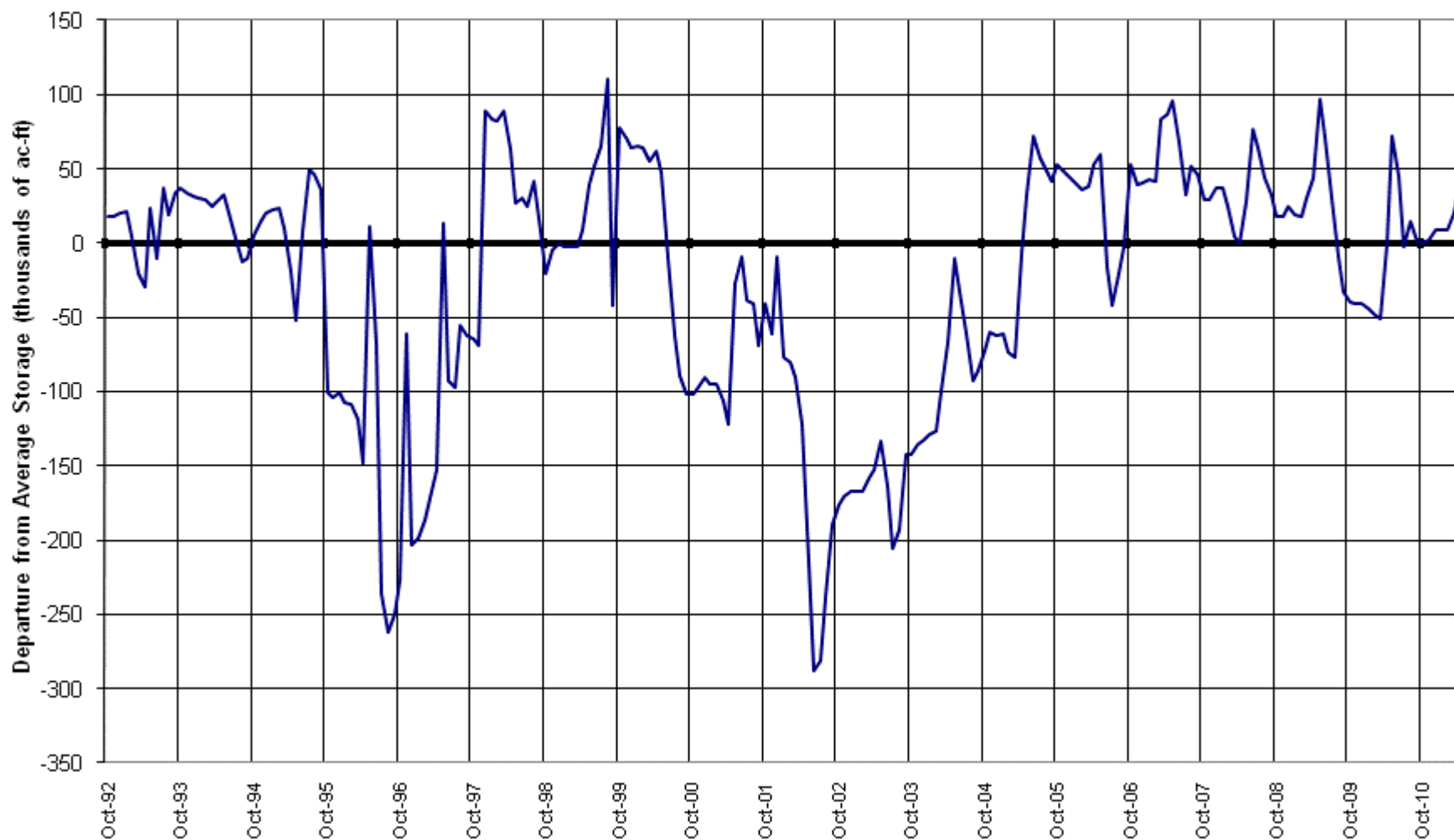


*Provisional Data
Subject to Revision*



End of April, 2011

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

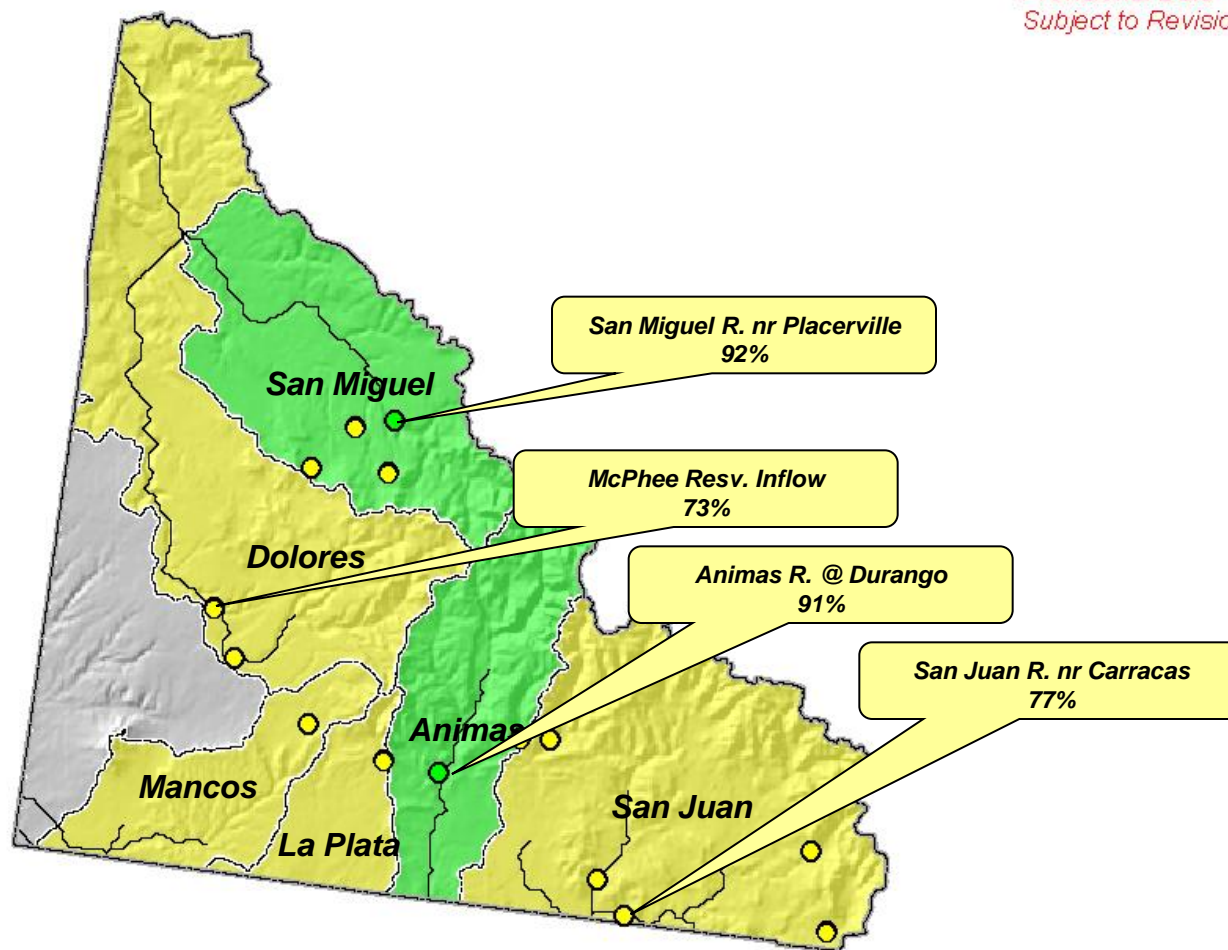


San Miguel, Dolores, Animas and San Juan River Basins Streamflow Forecast Map

Percent of Average

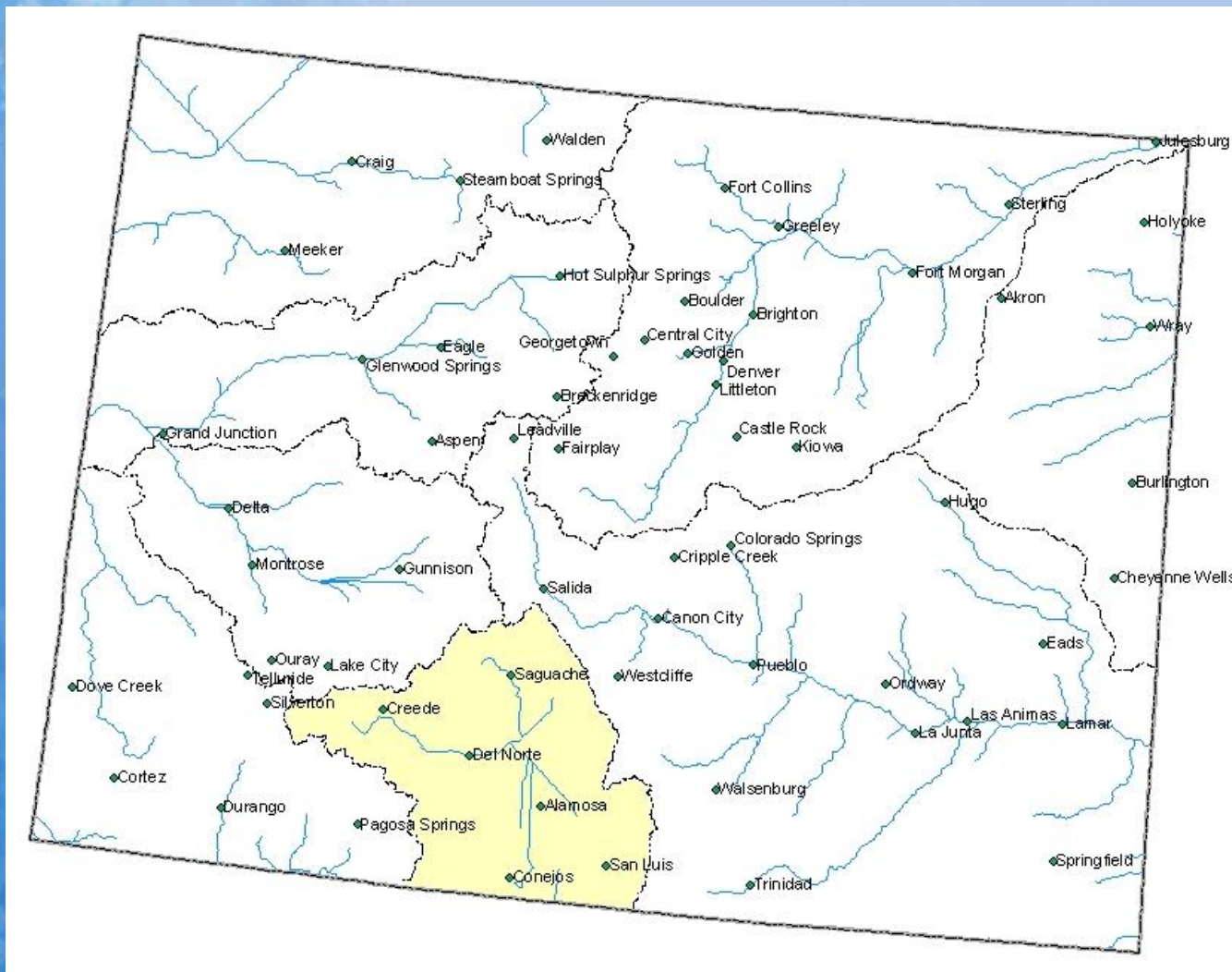


*Provisional Data
Subject to Revision*



Current as of May 1, 2011

Upper Rio Grande Basin Summary

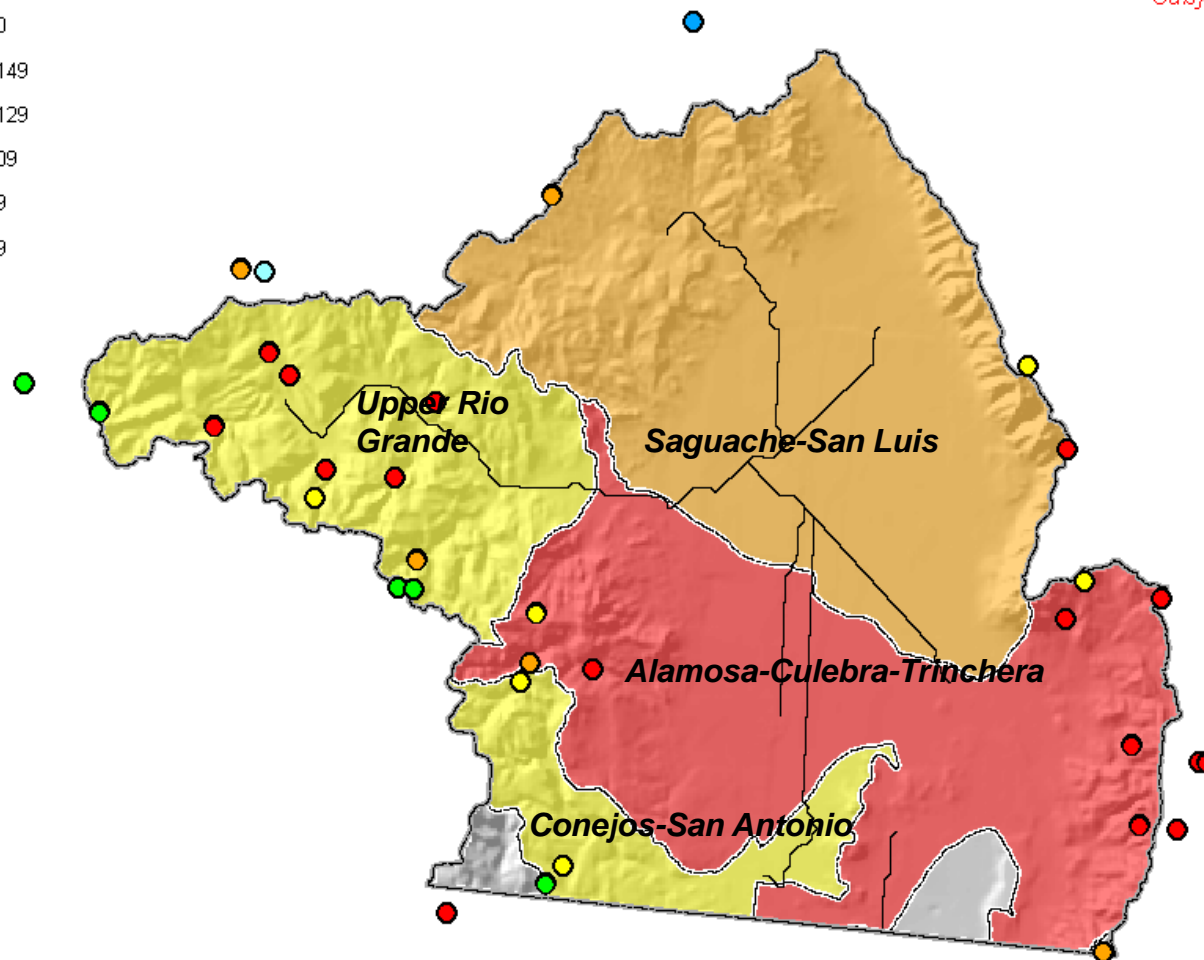


Upper Rio Grande Basin Snowpack Map

Percent of Average

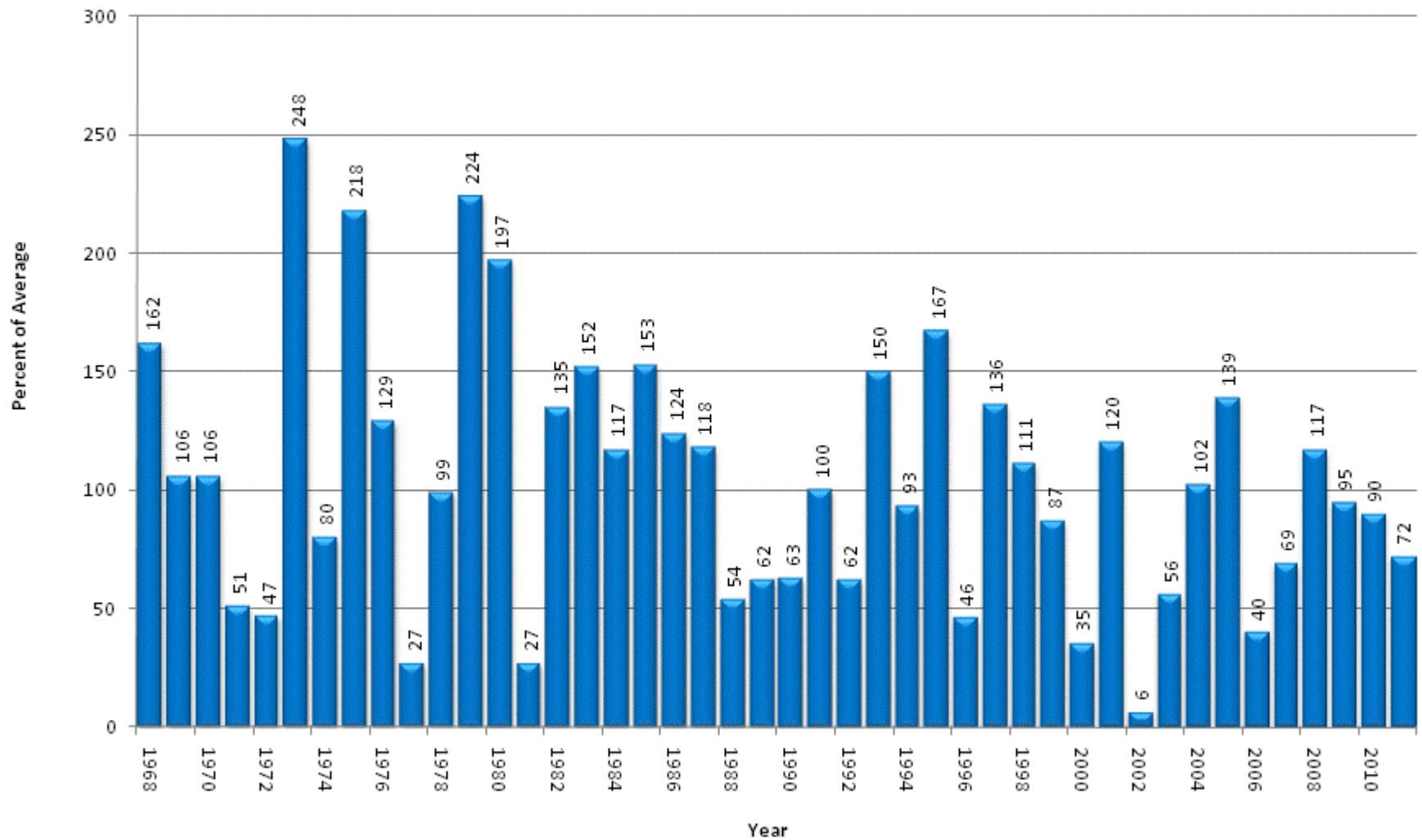


*Provisional Data
Subject to Revision*



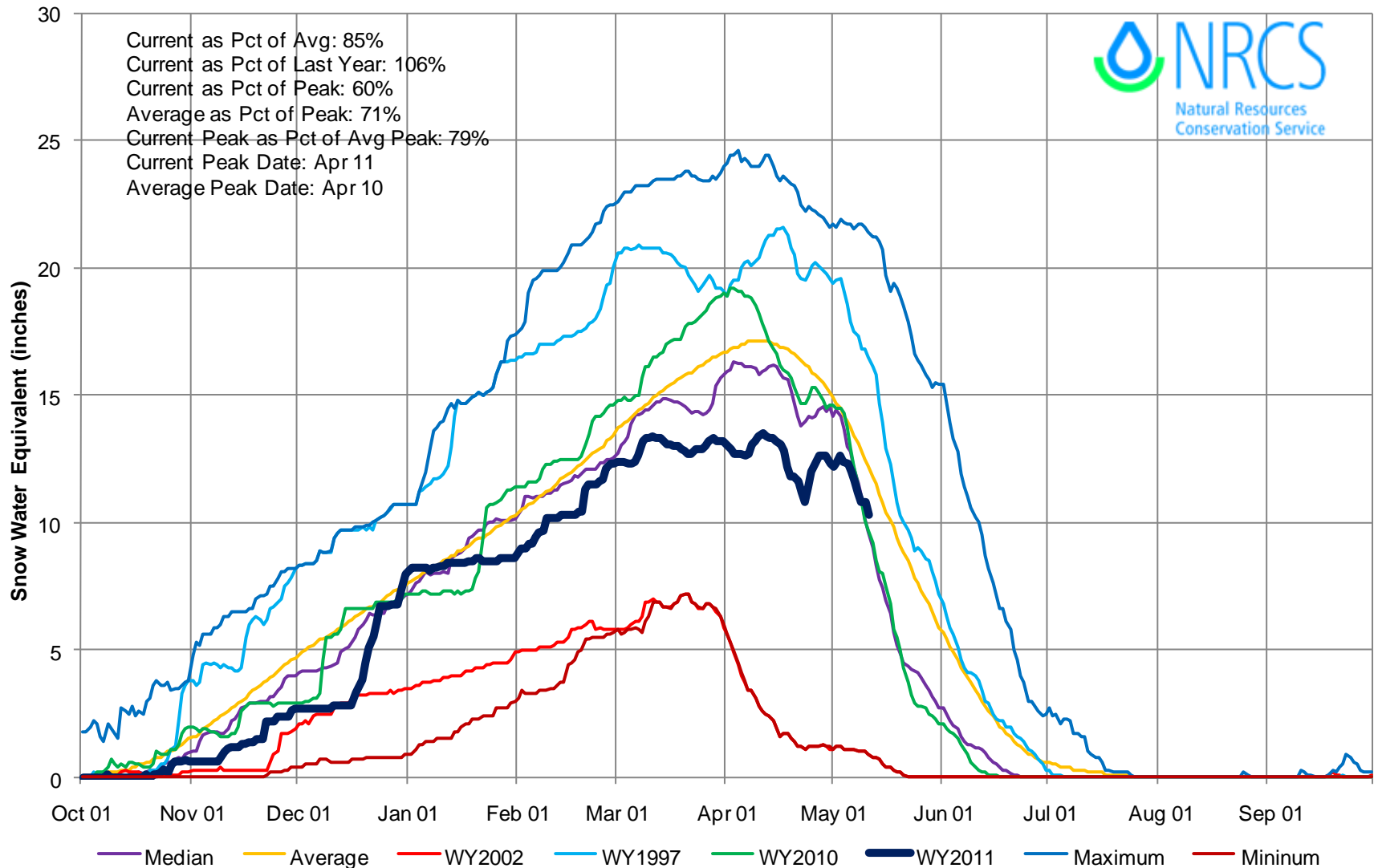
Current as of May 1, 2011

May 1 Total Upper Rio Grande Basin Snowpack



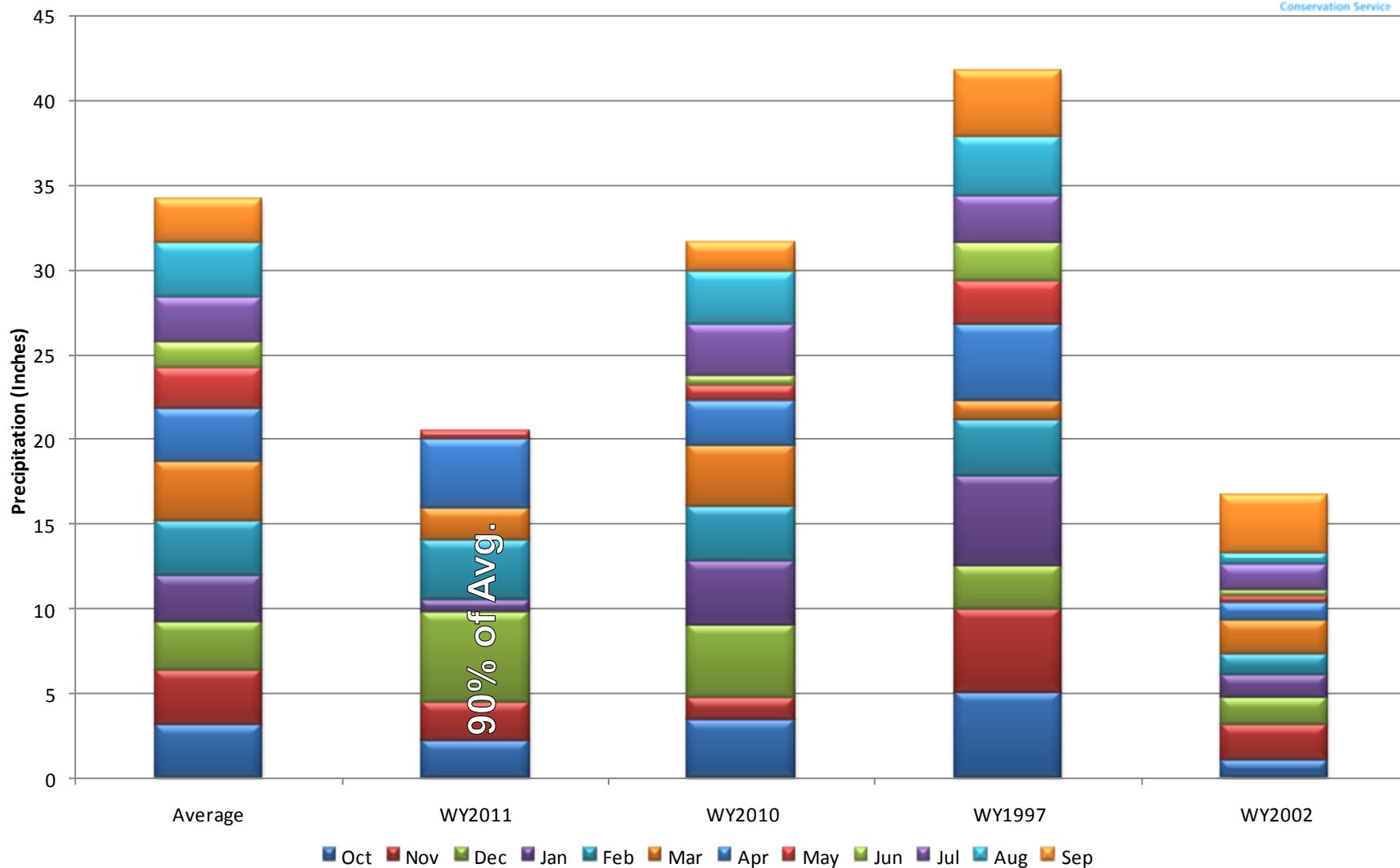
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 11, 2011



Upper Rio Grande Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 11, 2011

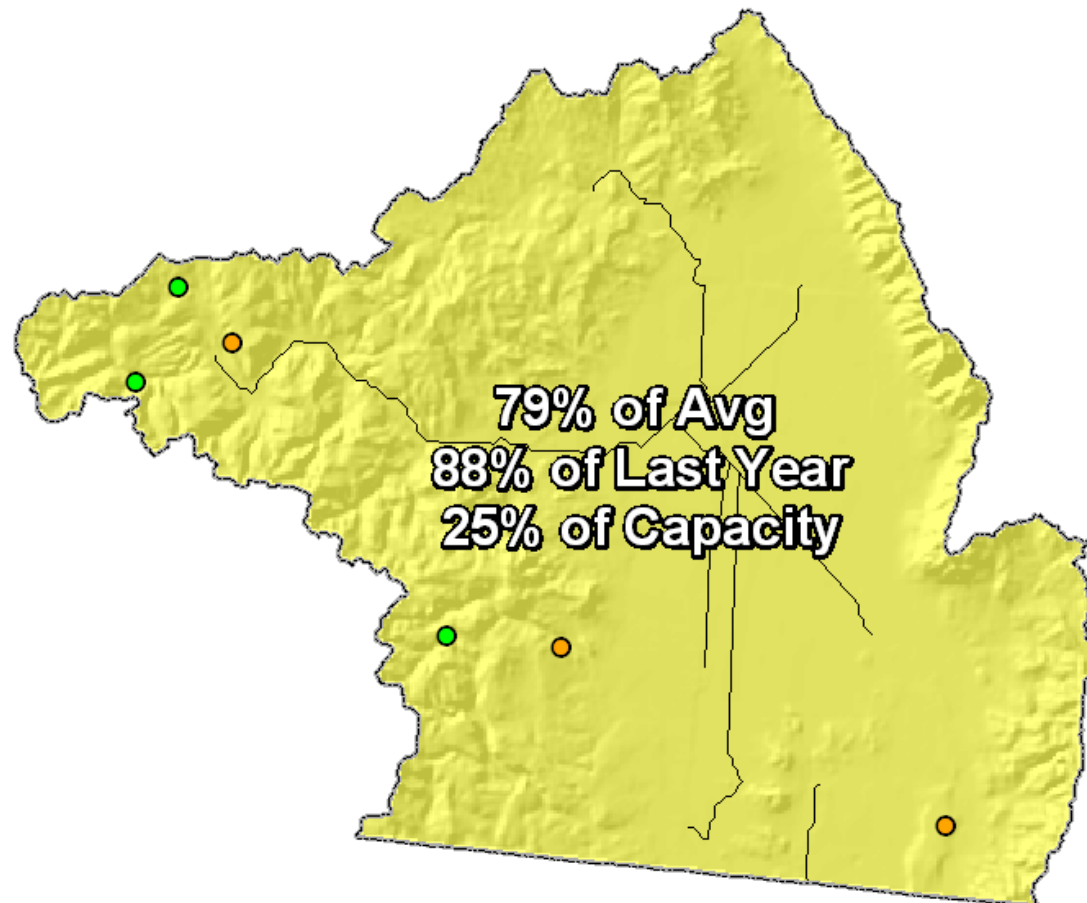


Upper Rio Grande Basin Reservoir Storage Map

Percent of Average

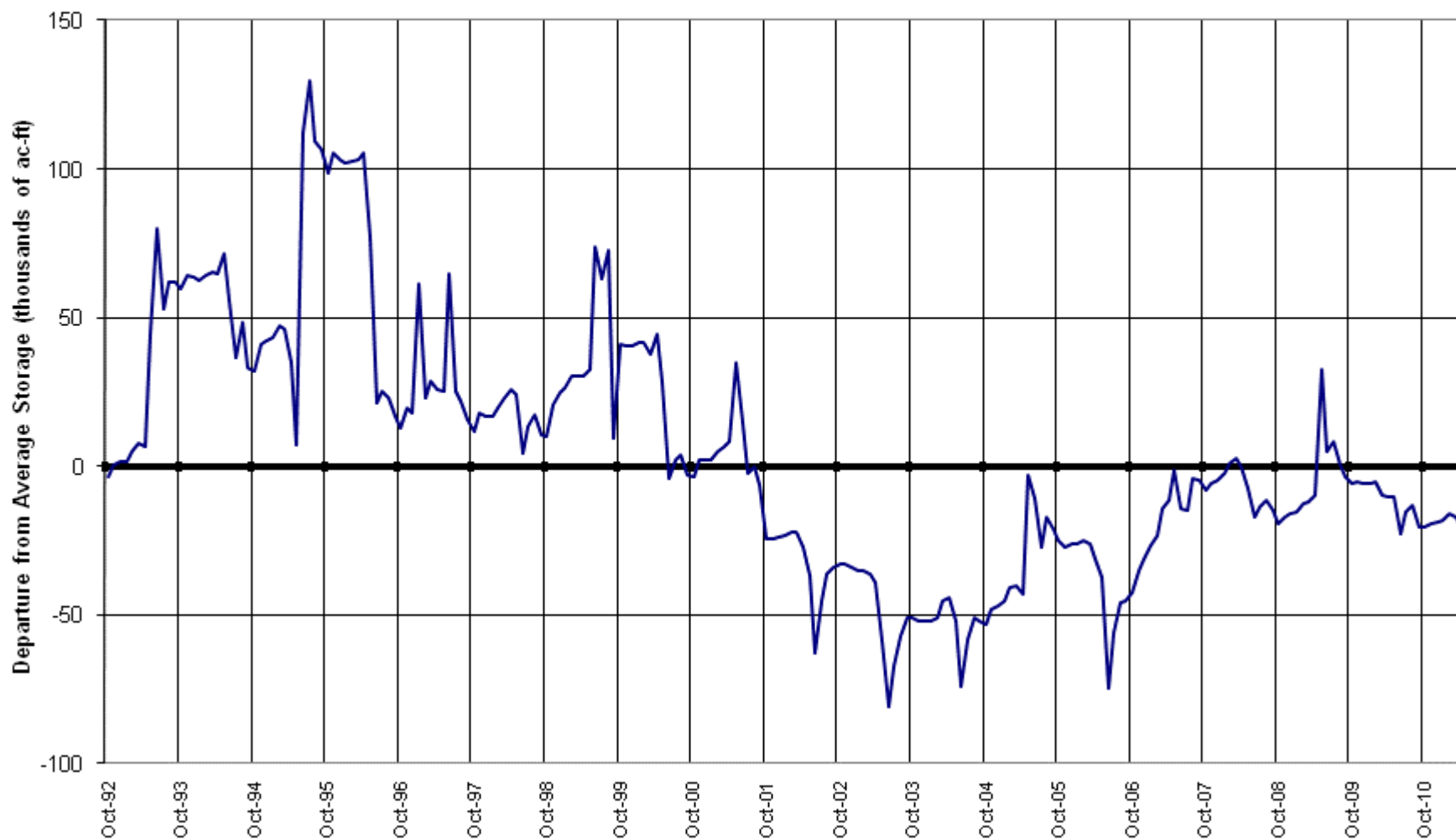


*Provisional Data
Subject to Revision*



End of April, 2011

UPPER RIO GRANDE BASIN
Reservoir Storage
Departure from Average

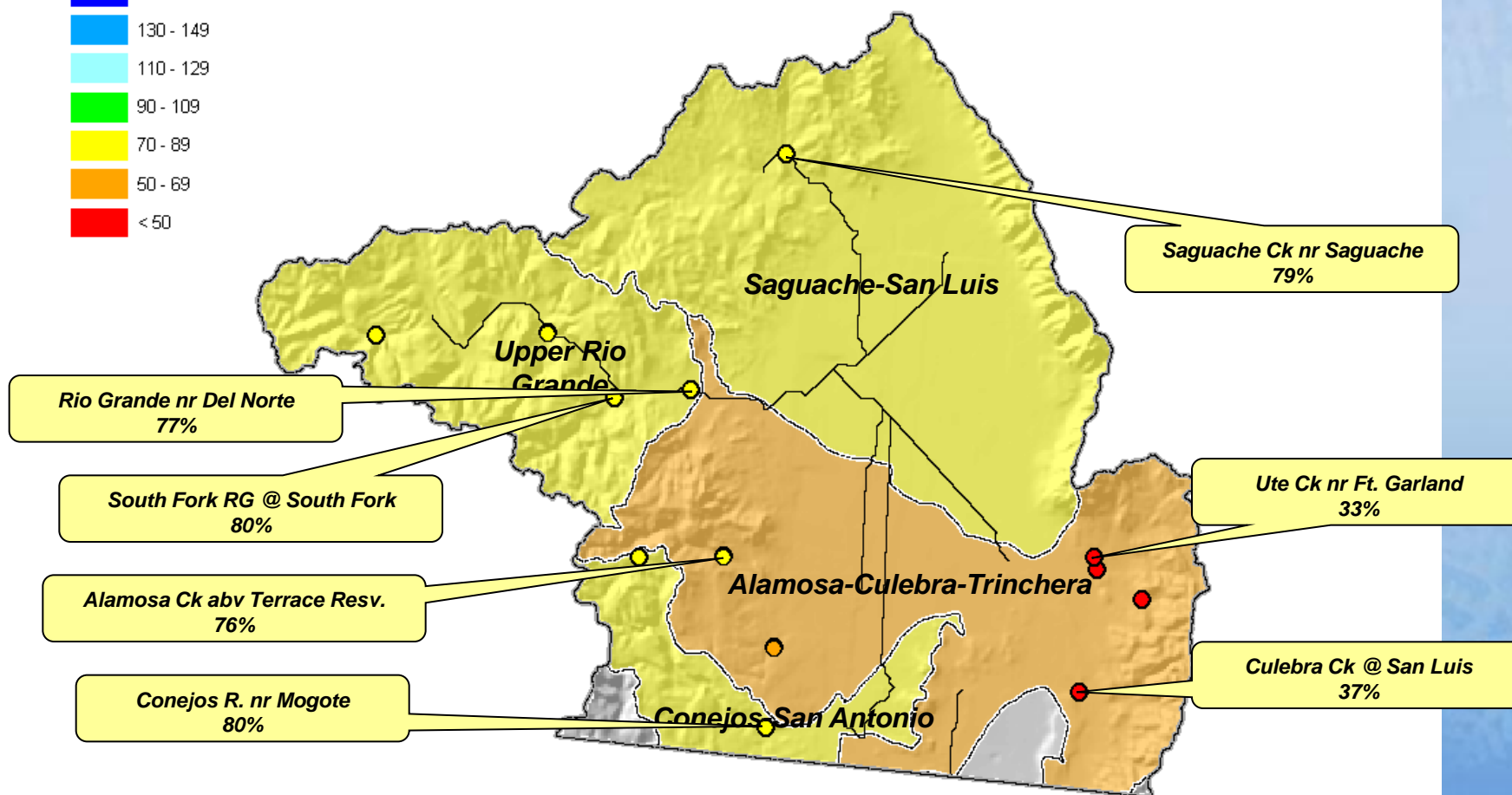


Upper Rio Grande Basin Streamflow Forecast Map

Percent of Average

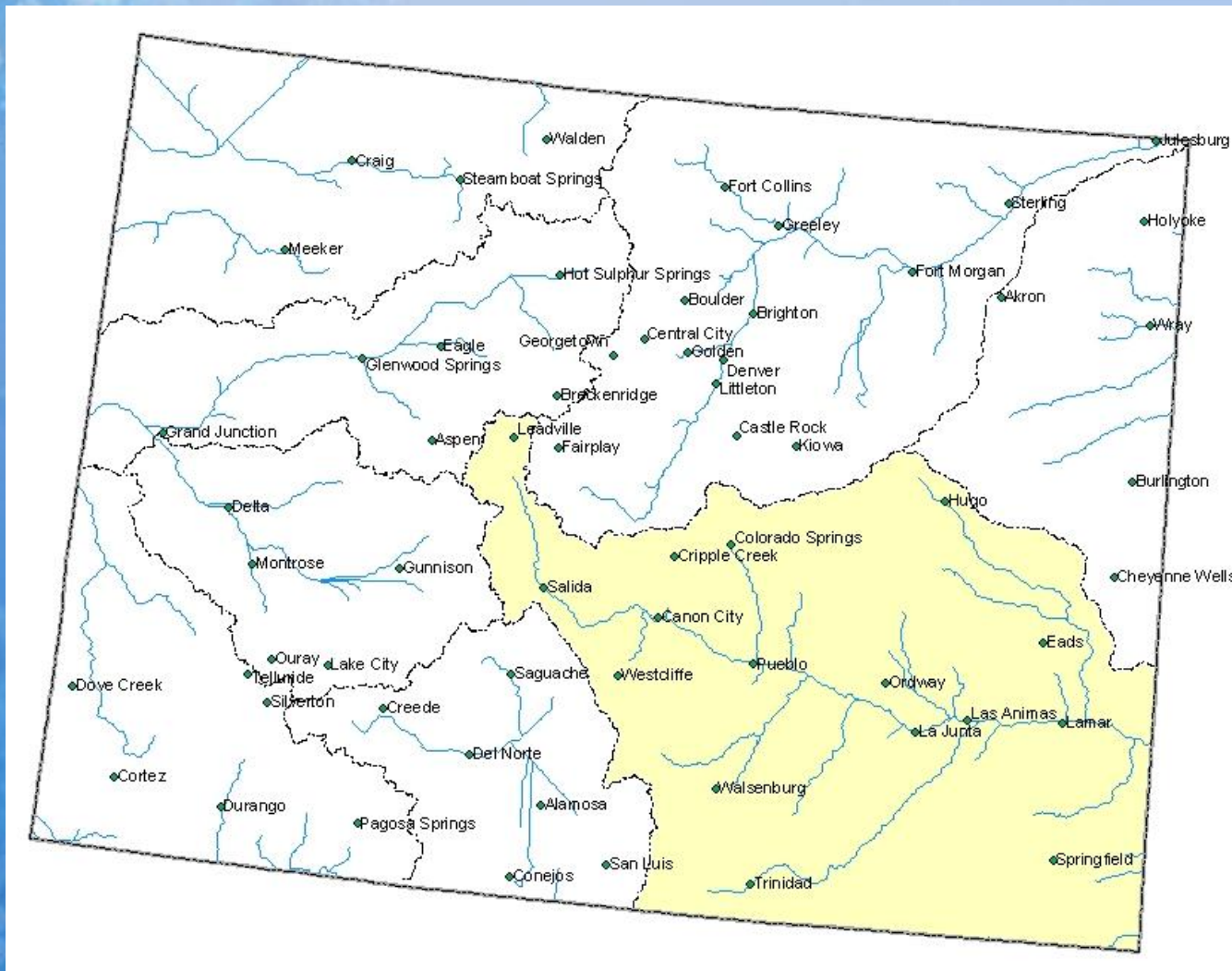


*Provisional Data
Subject to Revision*



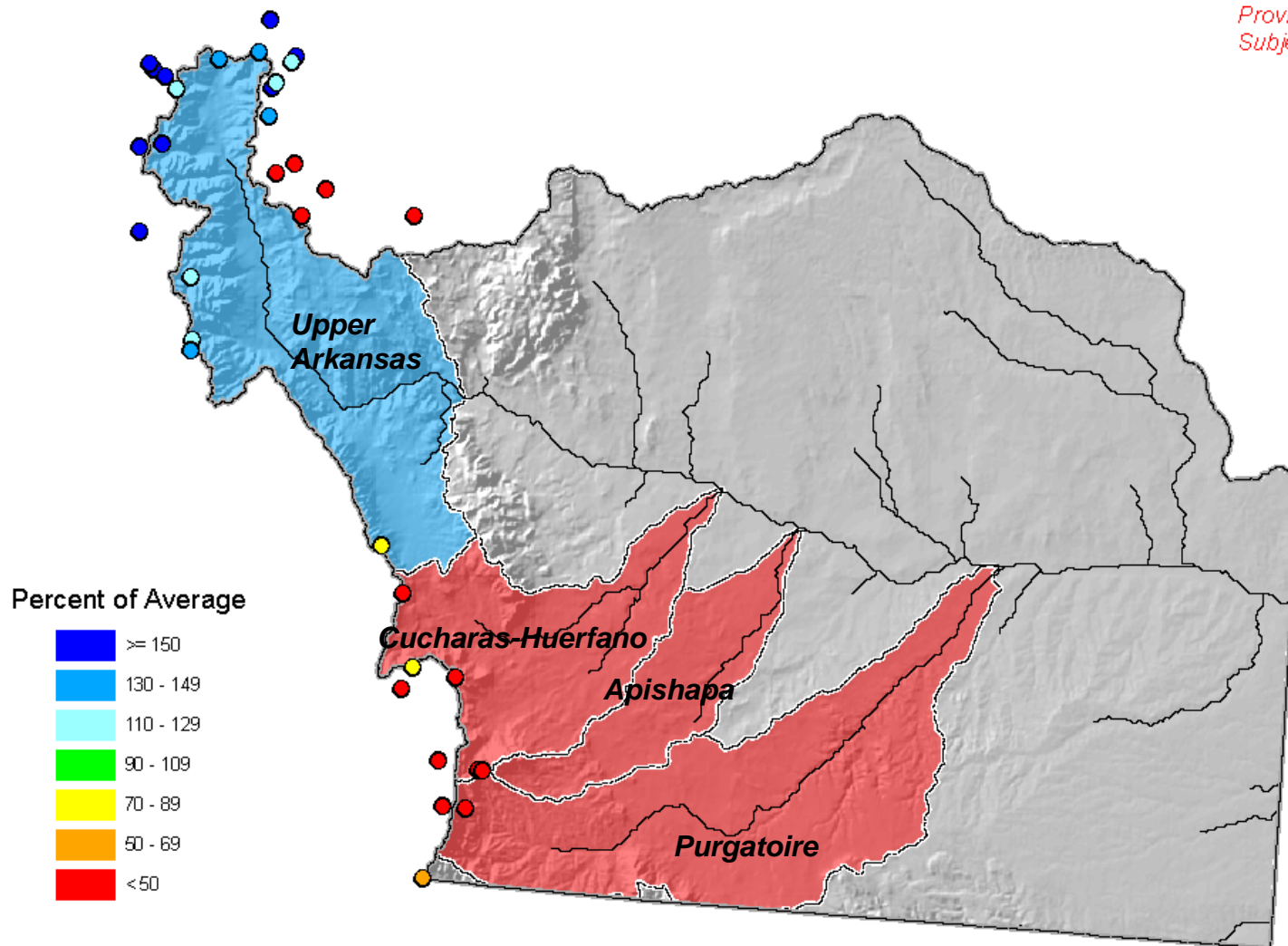
Current as of May 1, 2011

Arkansas River Basin Summary



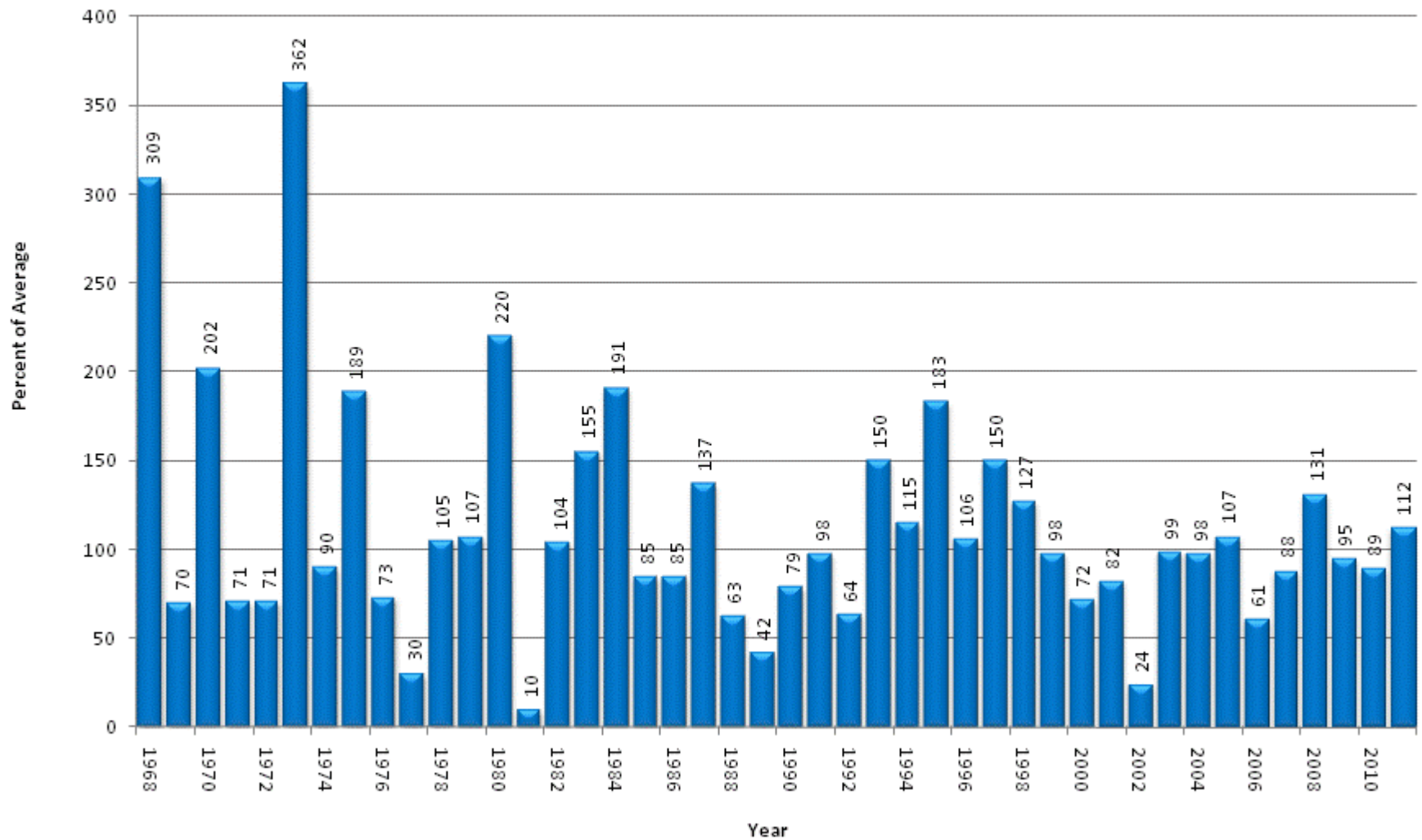
Arkansas River Basin Snowpack Map

*Provisional Data
Subject to Revision*



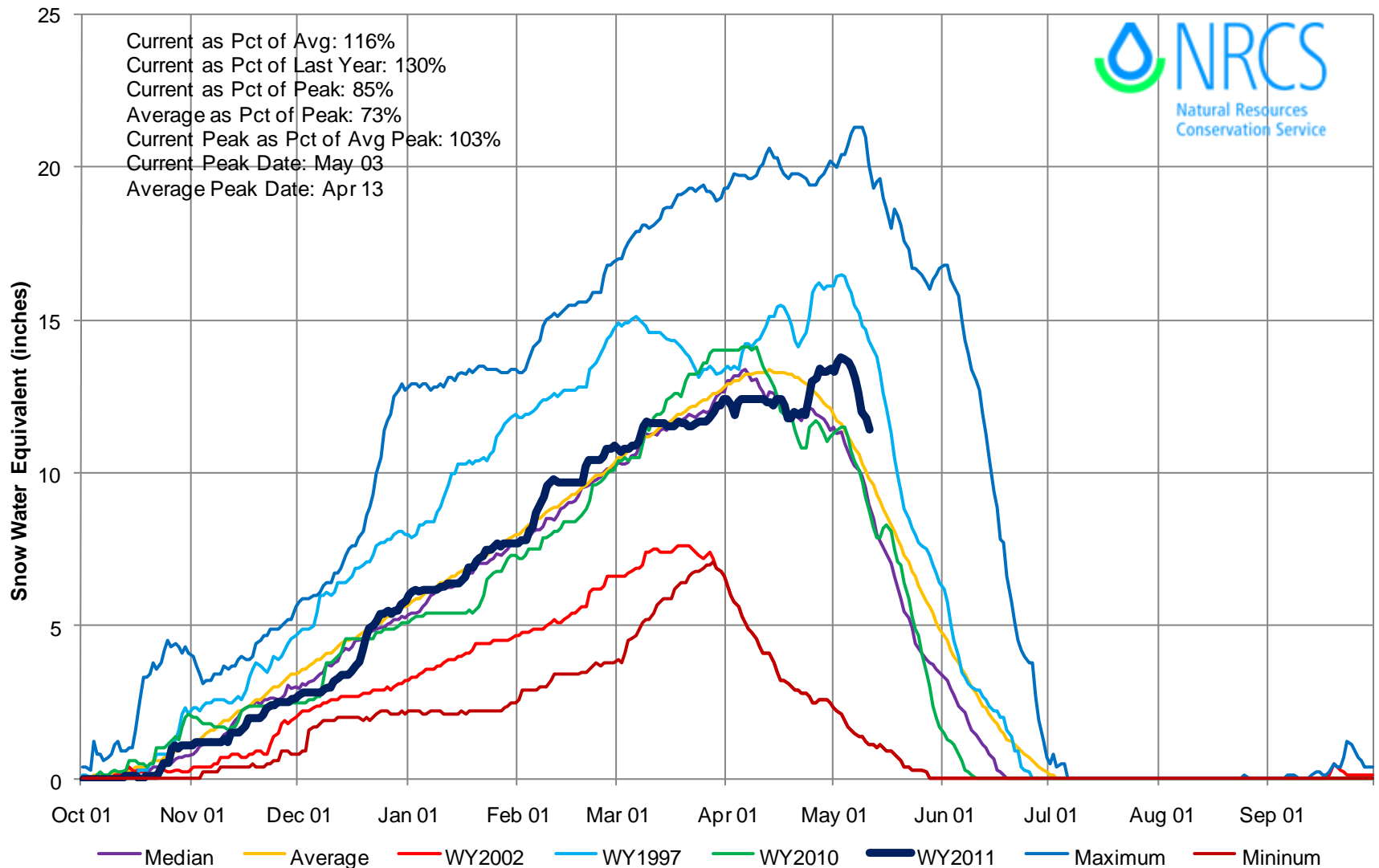
Current as of May 1, 2011

May 1 Total Arkansas River Basin Snowpack



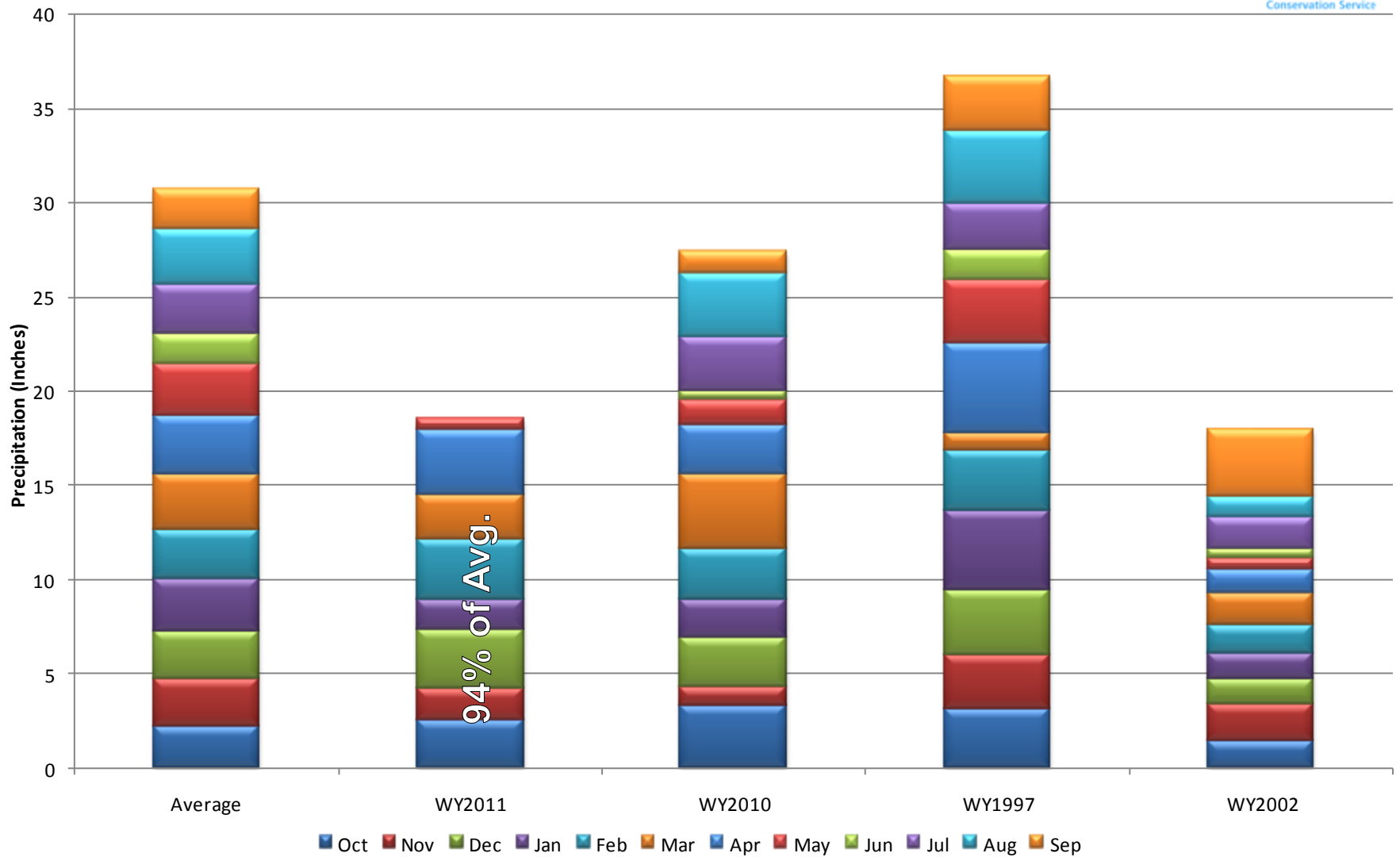
Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of May 11, 2011



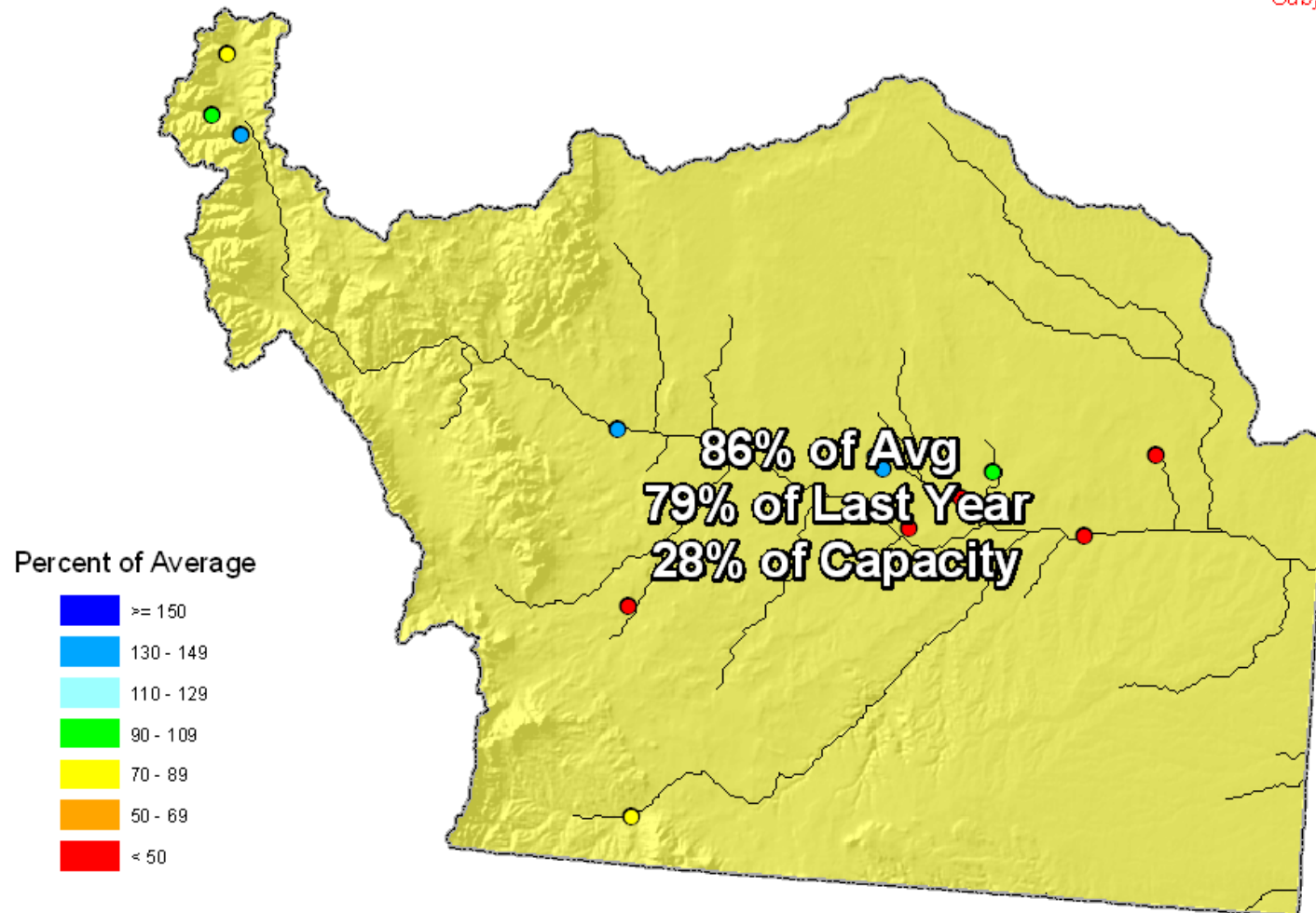
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of May 11, 2011



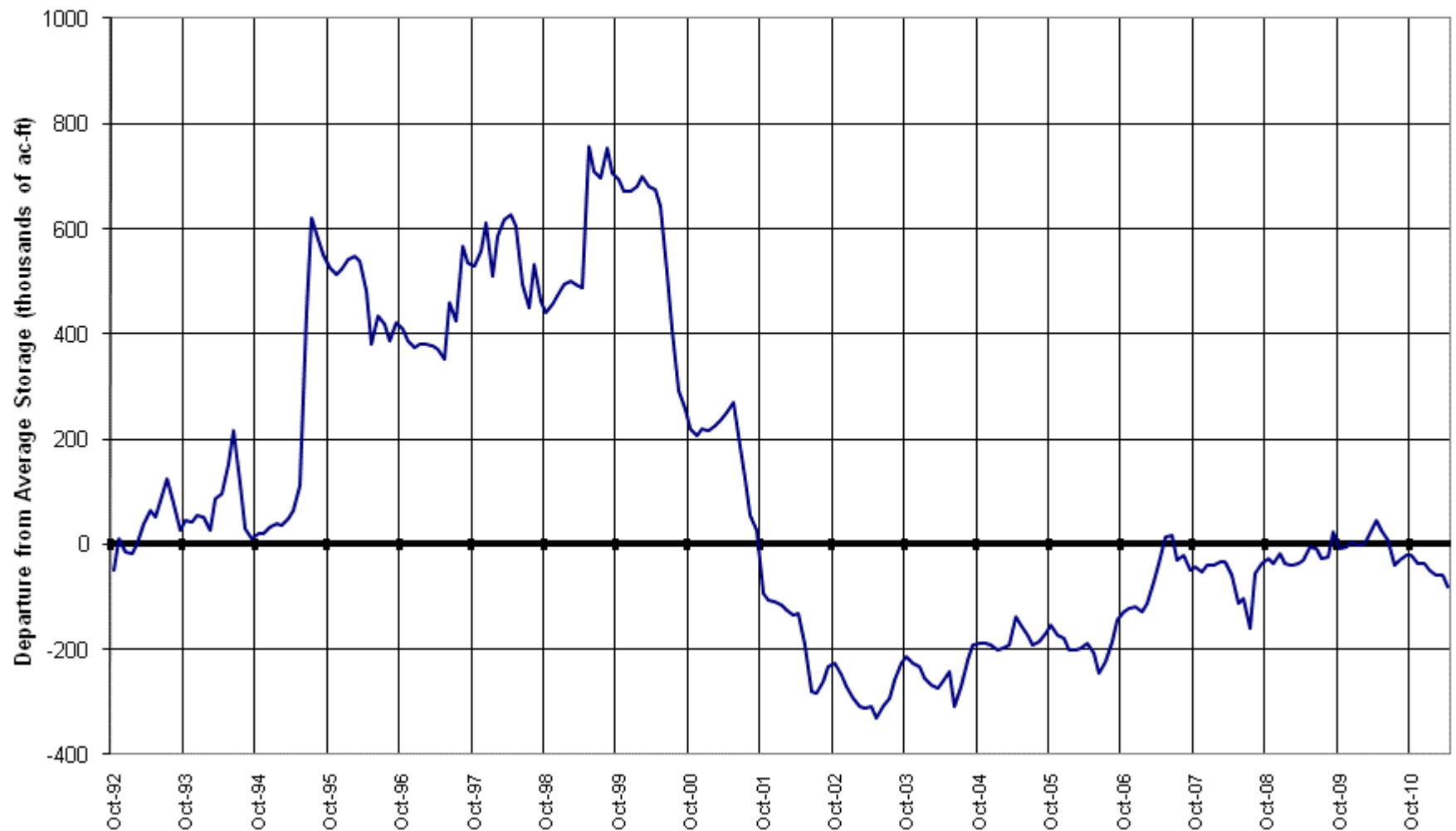
Arkansas River Basin Reservoir Storage Map

*Provisional Data
Subject to Revision*



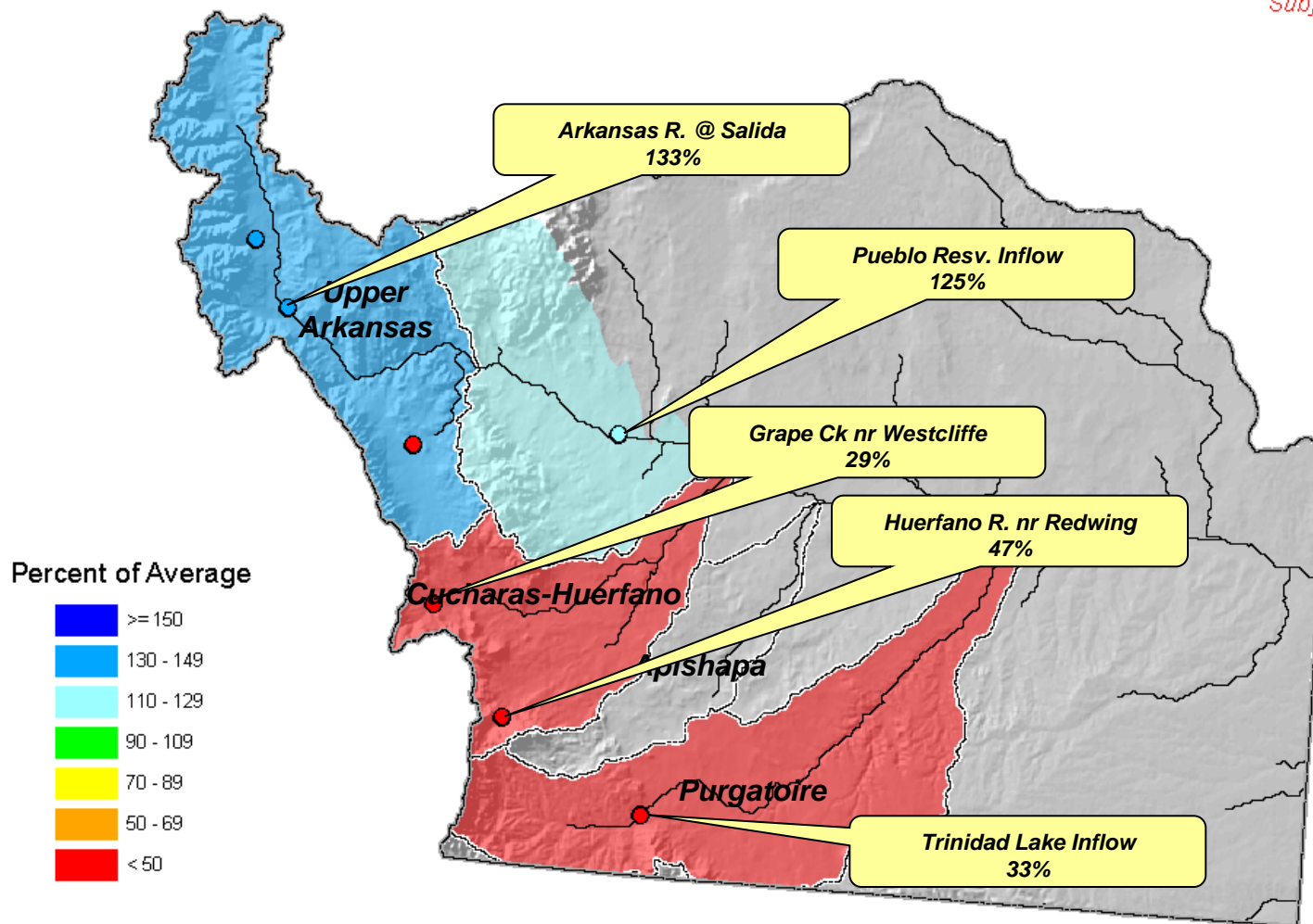
End of April, 2011

ARKANSAS RIVER BASIN
Reservoir Storage
Departure from Average



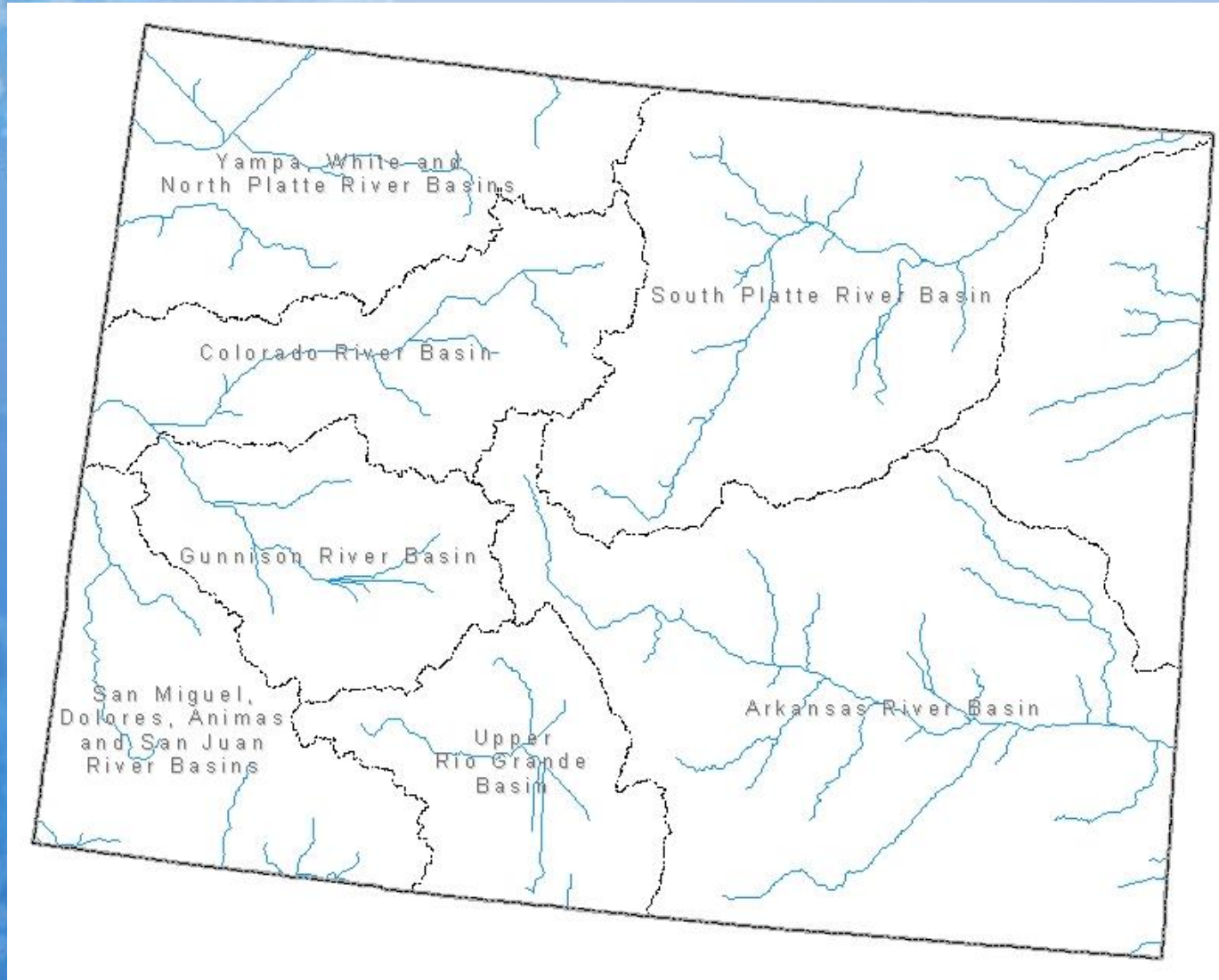
Arkansas River Basin Streamflow Forecast Map

*Provisional Data
Subject to Revision*



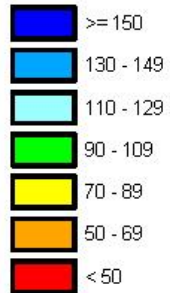
Current as of May 1, 2011

Colorado Statewide Summary

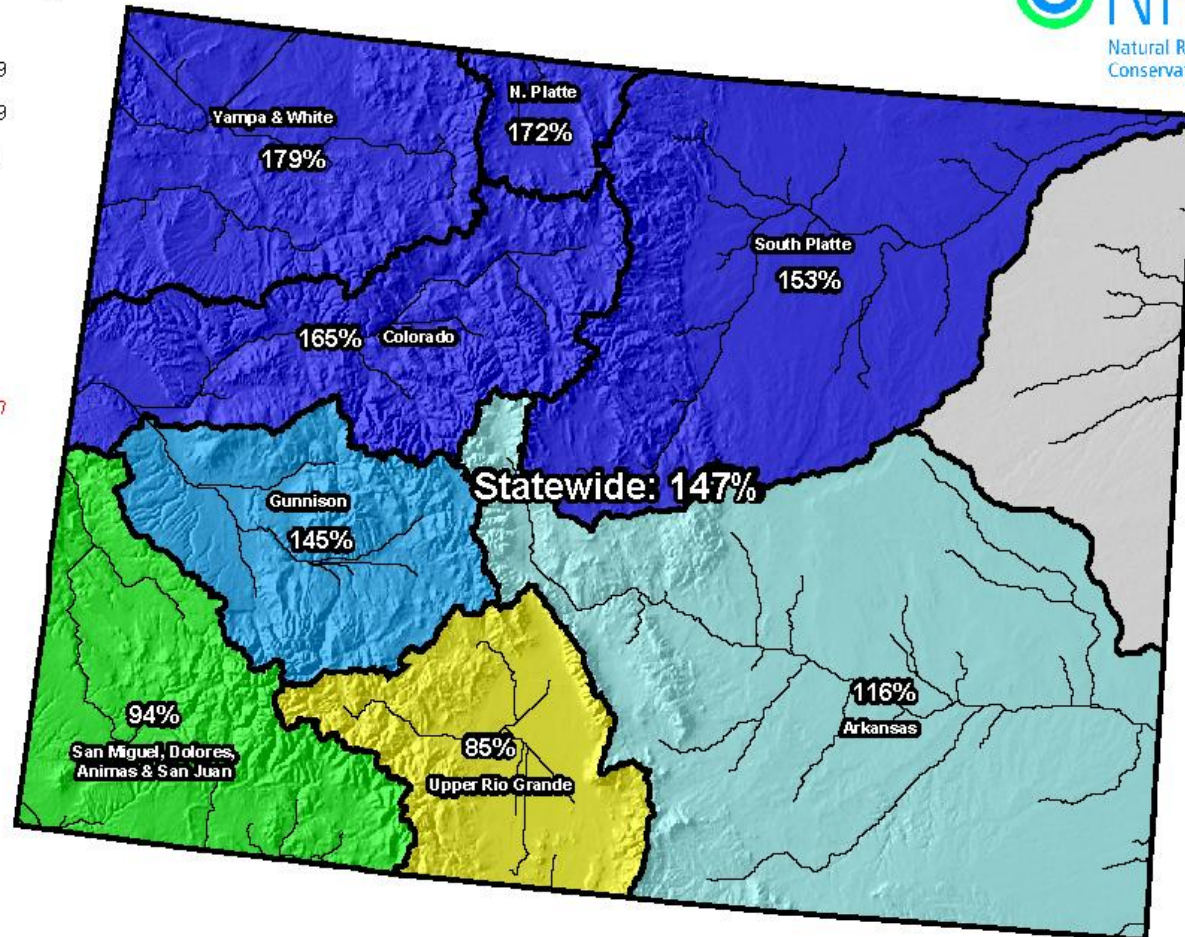


Colorado SNOTEL Snowpack Update Map

Percent of Average



*Provisional Data
Subject to Revision*

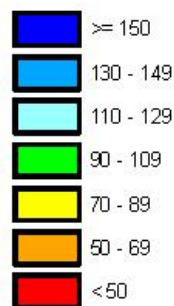


Current as of May 11, 2011

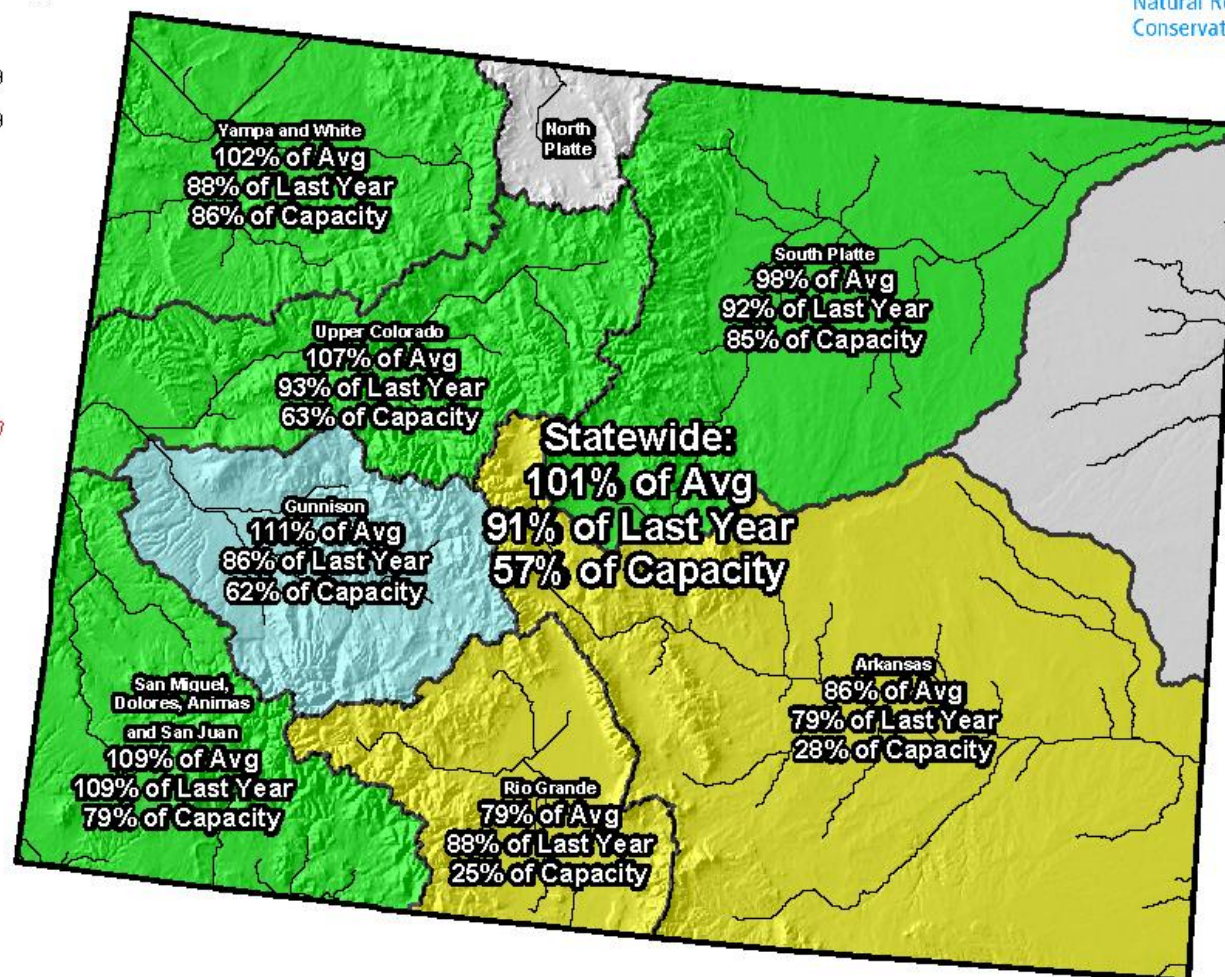
*Data may not provide a valid measure of conditions

Colorado Reservoir Storage Map

Percent of Average



*Provisional Data
Subject to Revision*



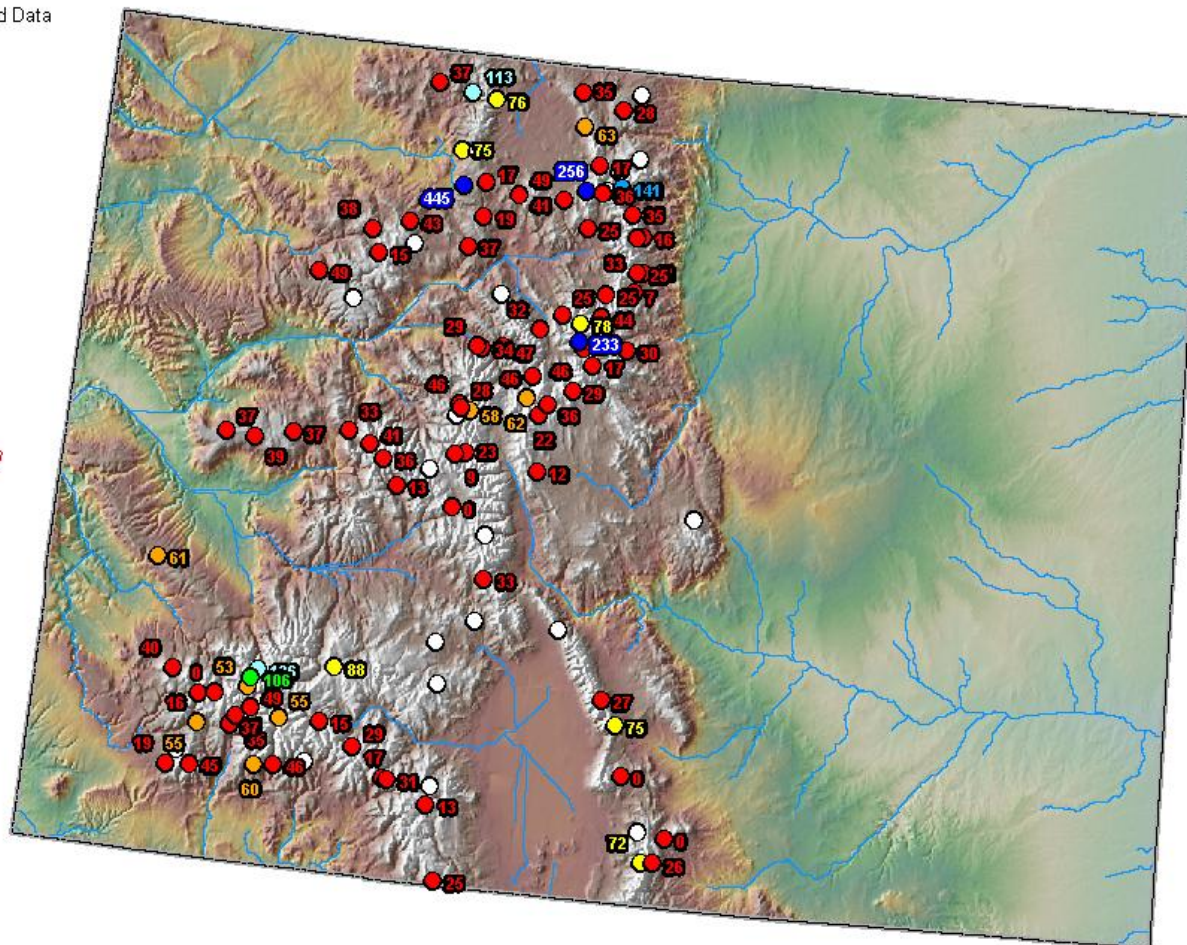
End of April 2011

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*

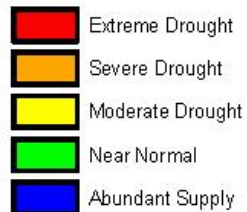


Current as of May 11, 2011

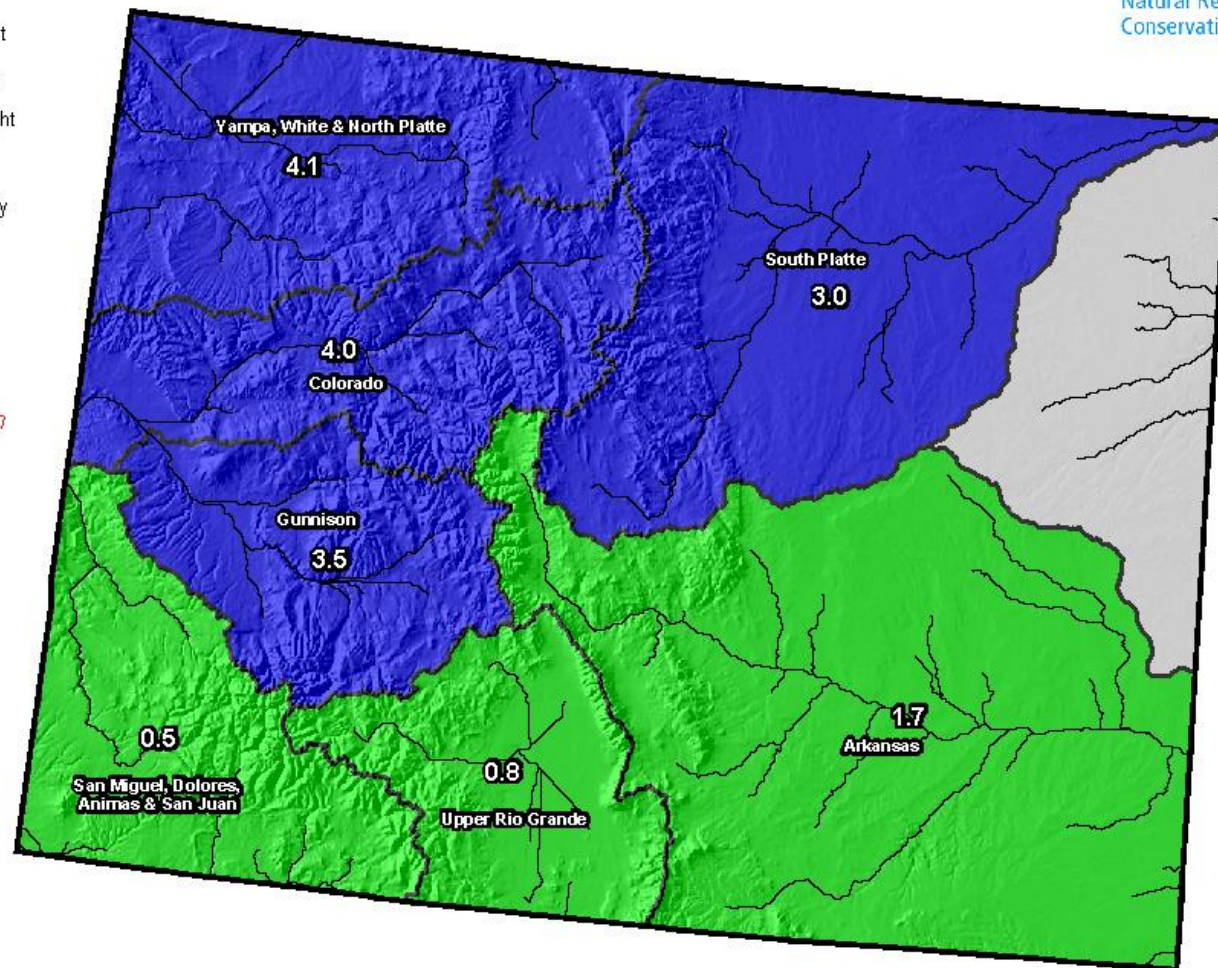
Colorado Surface Water Supply Index (SWSI) Map



Legend

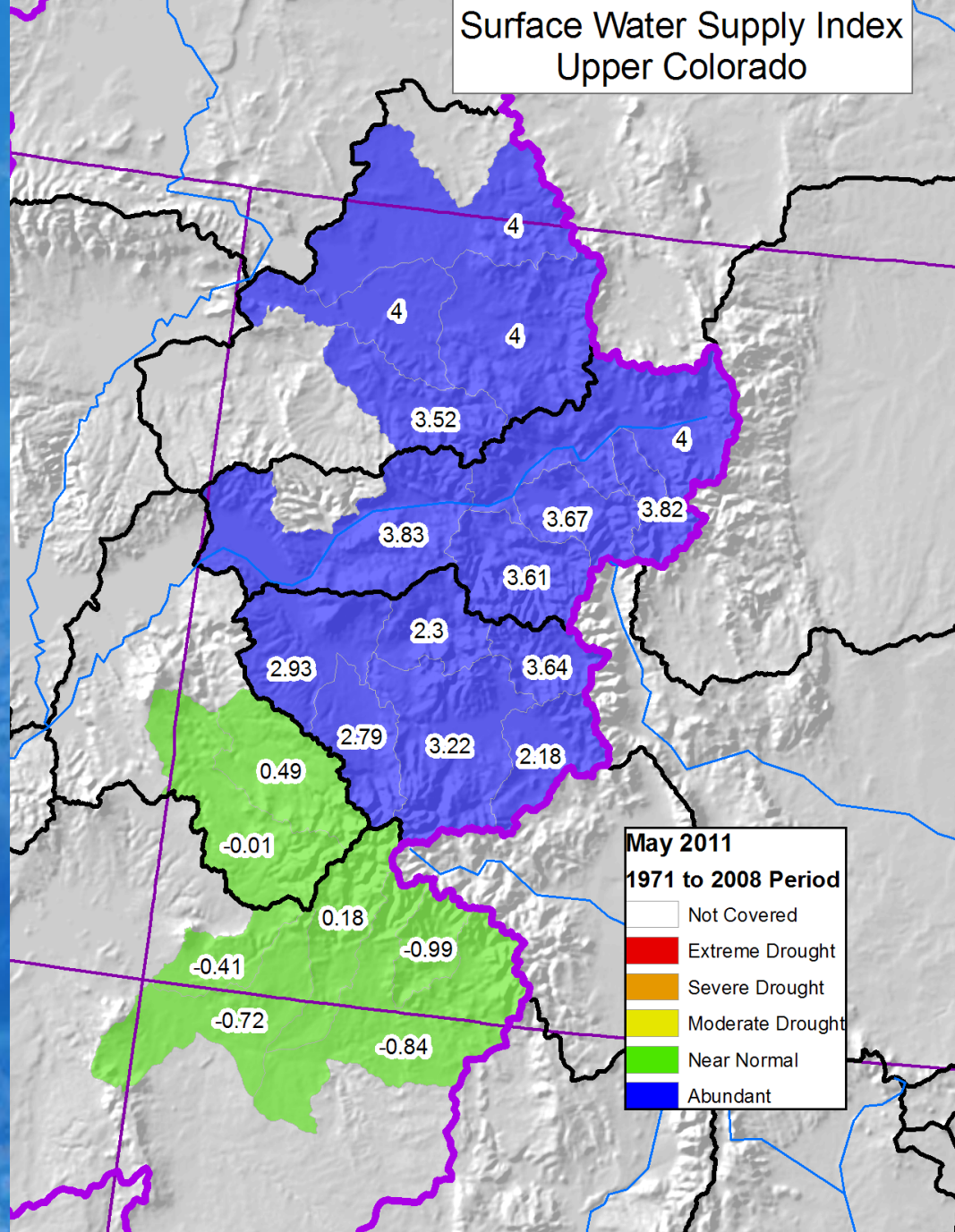


*Provisional Data
Subject to Revision*



Current as of May 1, 2011

Surface Water Supply Index Upper Colorado



Colorado SWSI May 2011

