NRCS – Snow Survey & Water Supply Forecasting

Mike Gillespie

Water Availability Task Force Meeting

January 22, 2010

The 2010 Water Year

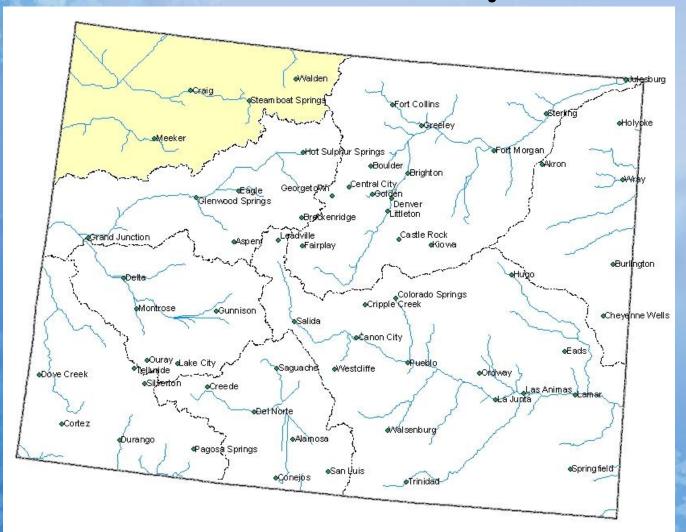
October – Cold statewide with slightly above normal mountain precipitation. Good start to the winter snowpack.

November – Warm and dry conditions statewide. Mountain snowpack put on hold.

December – Cold again with improved snowfall especially across southern basins.

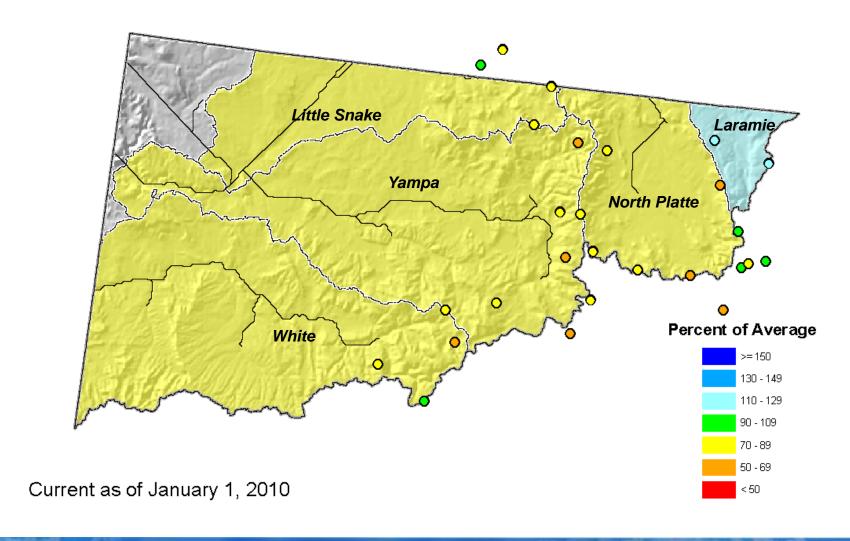
January – El Nino??? La Nina??? La Nada!!!

Yampa, White & North Platte River Basins Summary

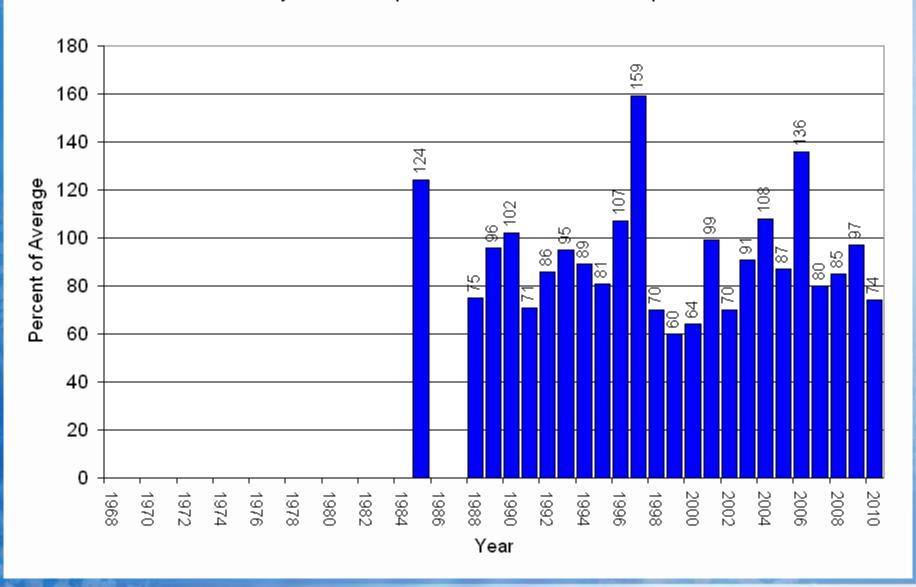


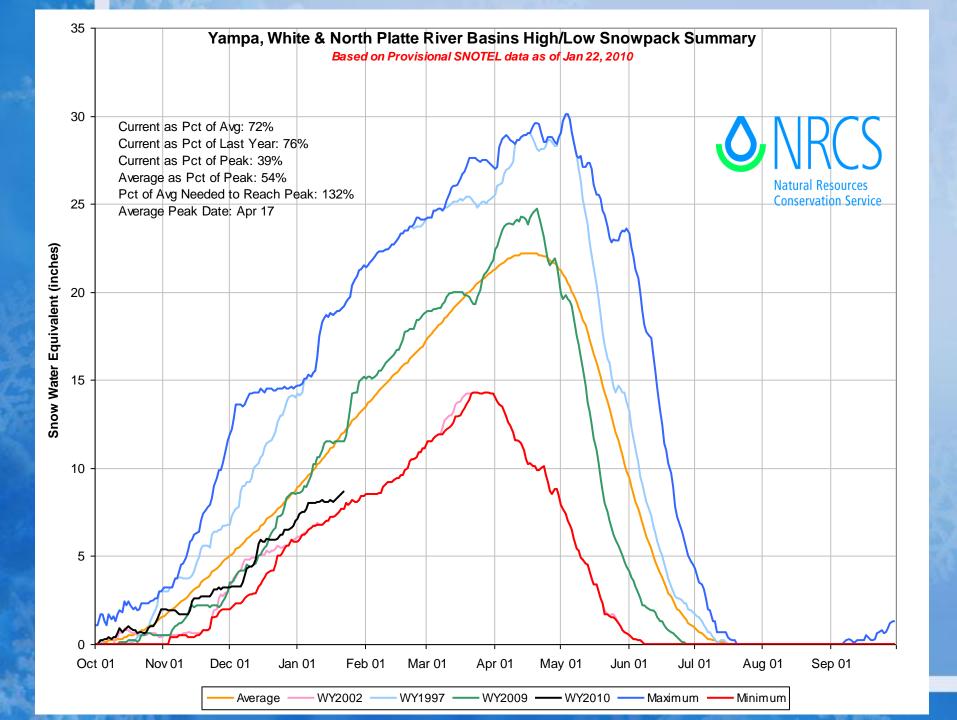
Yampa, White and North Platte River Basins Snowpack Map

Provisional Data Subject to Revision



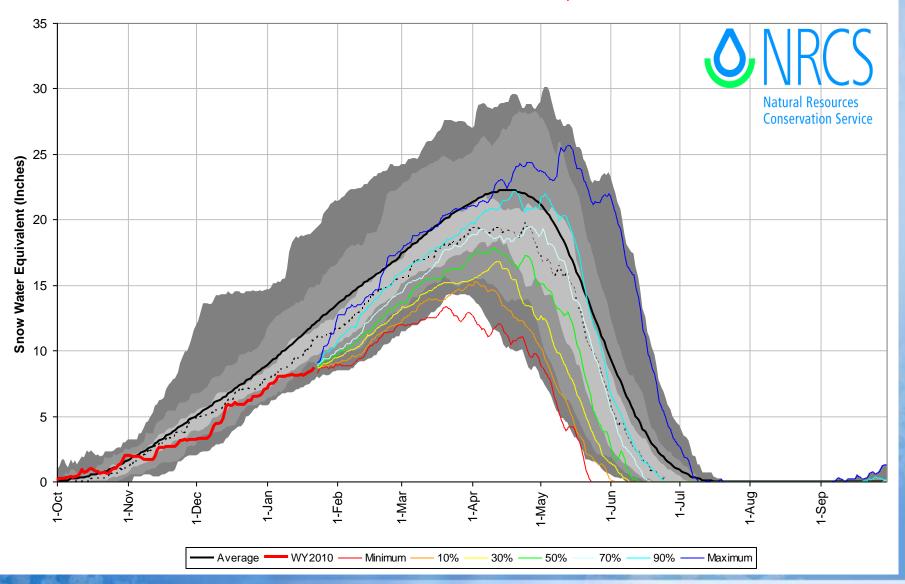
January 1 Total Yampa & White River Basins Snowpack





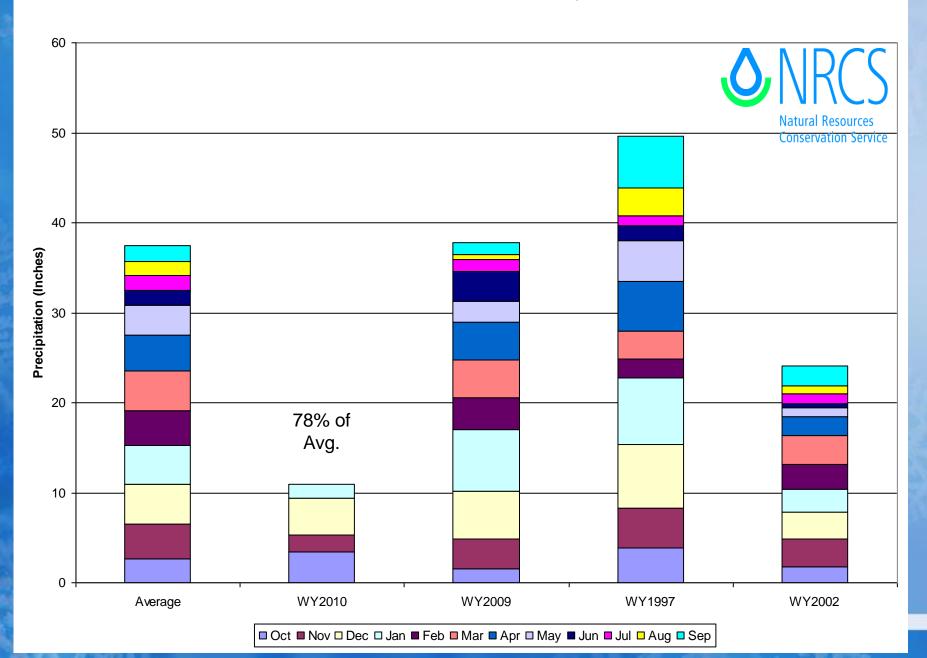
Yampa, White & North Platte River Basins with Non-Exceedence Projections

Based on Provisional SNOTEL Data as of Jan 22, 2010



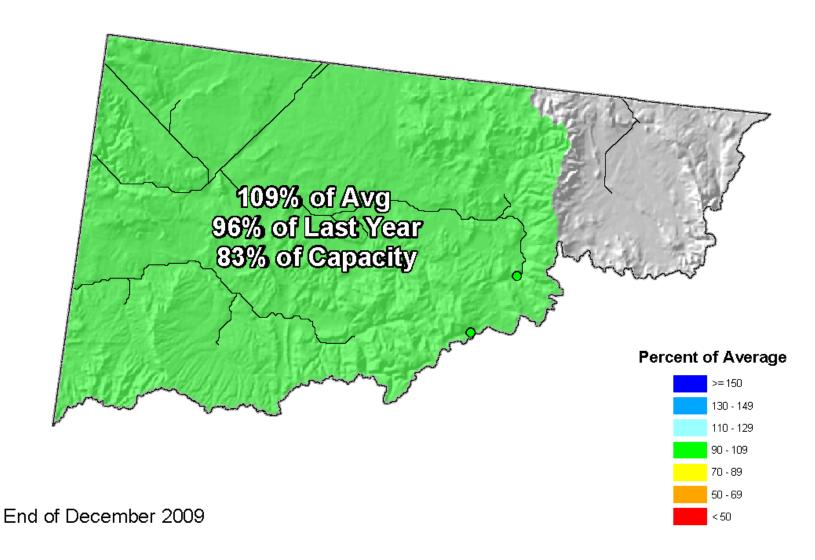
Yampa and White River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 22, 2010

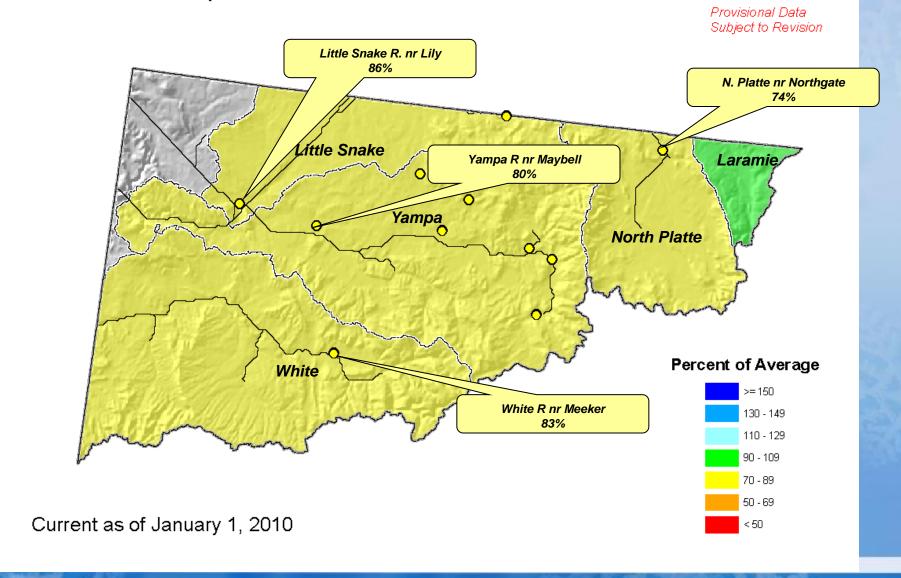


Yampa & White River Basins Reservoir Storage Map

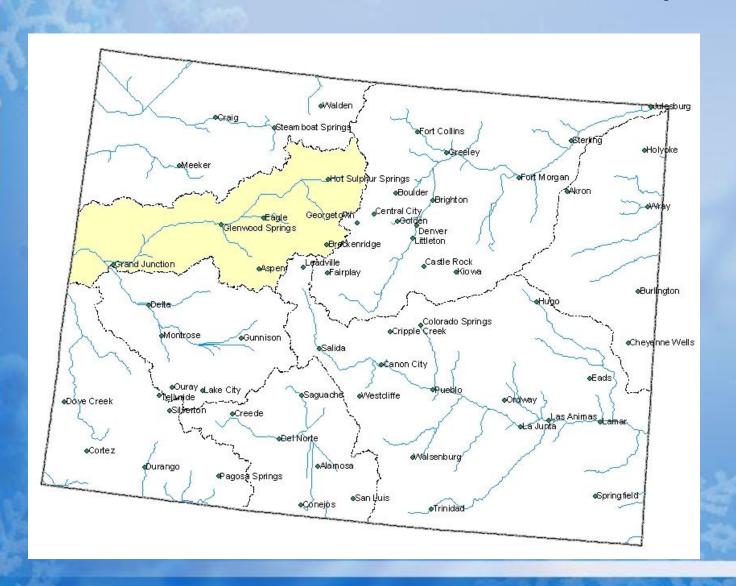
Provisional Data Subject to Revision



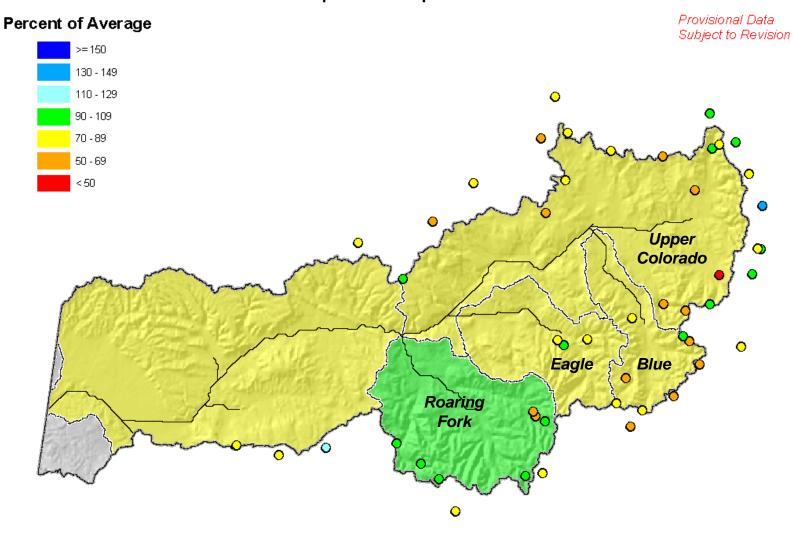
Yampa, White and North Platte River Basins Streamflow Map



Colorado River Basin Summary

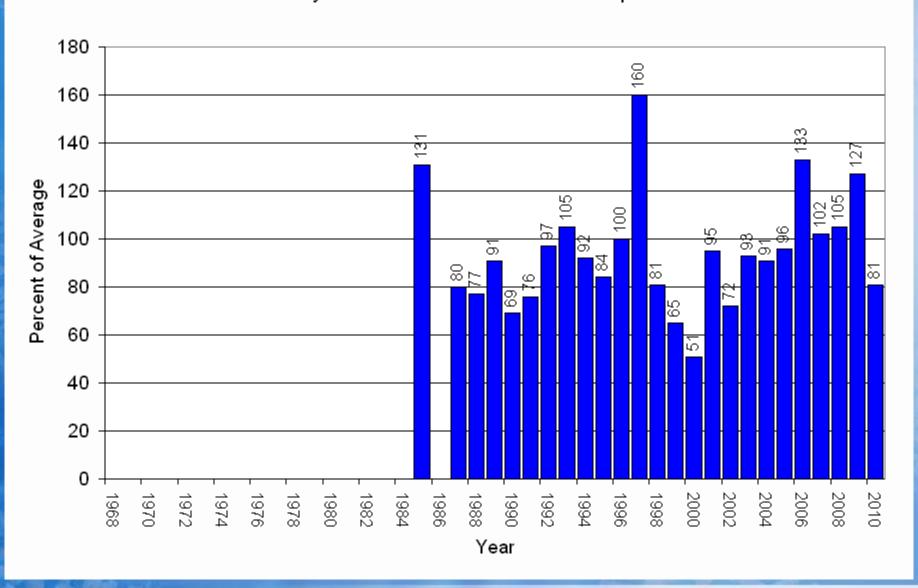


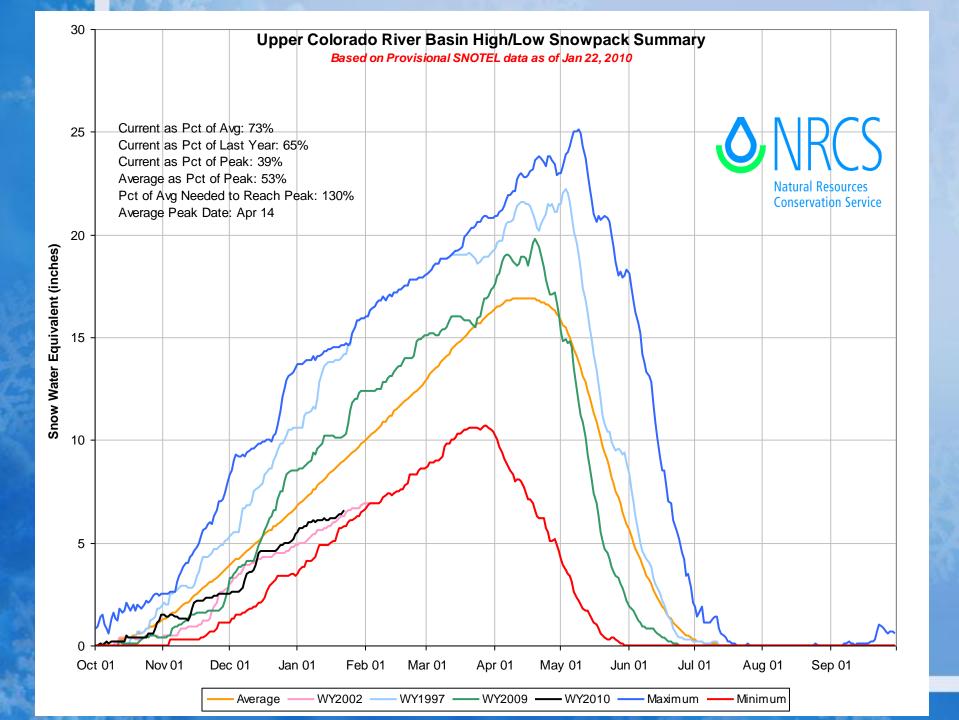
Colorado River Basin Snowpack Map



Current as of January 1, 2010

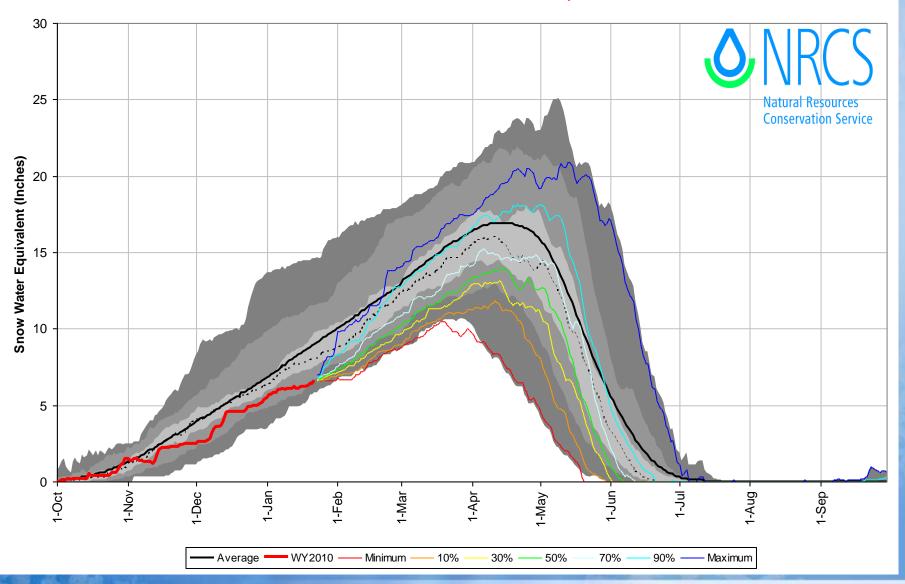
January 1 Total Colorado River Basin Snowpack





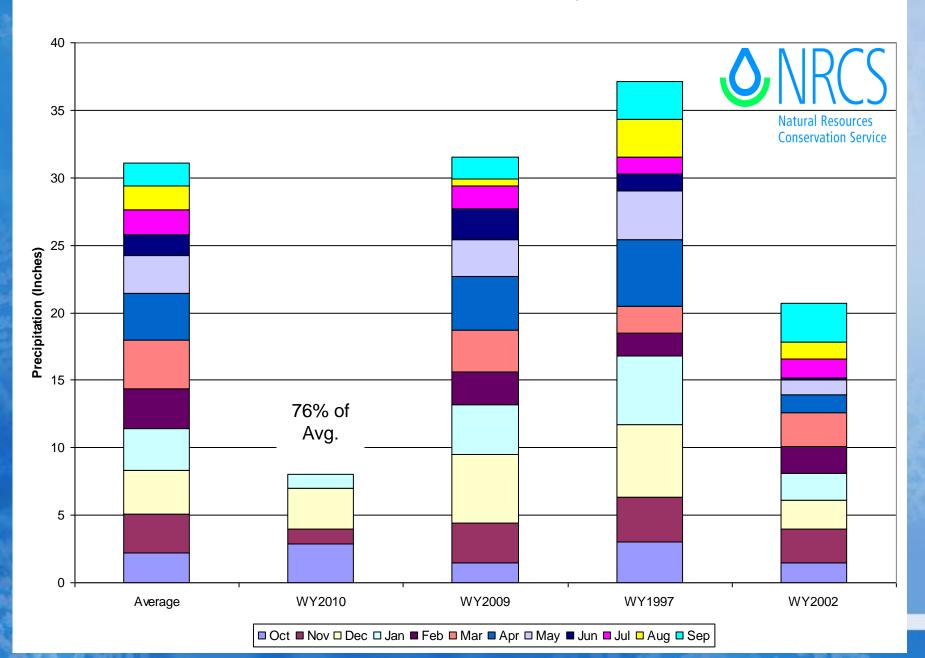
Colorado River Basin with Non-Exceedence Projections

Based on Provisional SNOTEL Data as of Jan 22, 2010

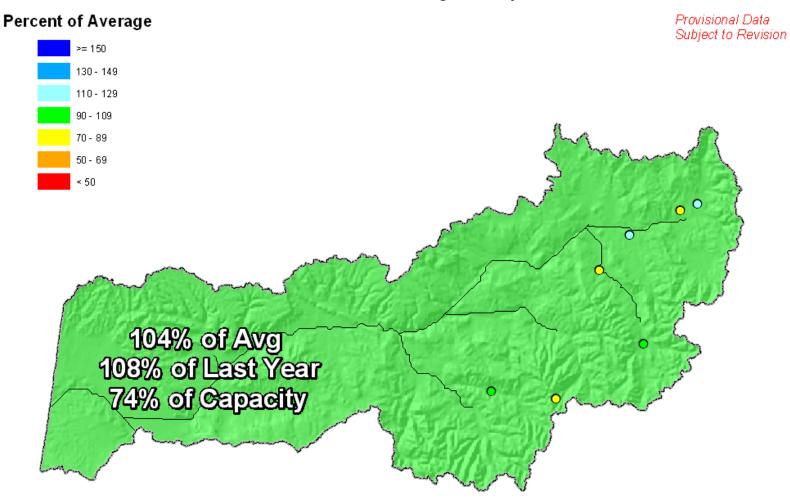


Upper Colorado River Basin High/Low Monthly Precipitation Summary

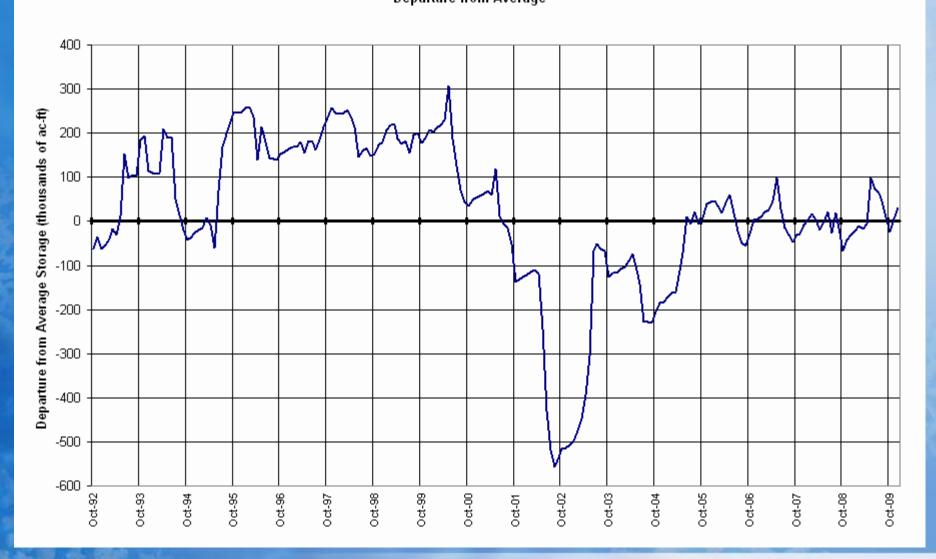
Based on Provisional SNOTEL data as of Jan 22, 2010



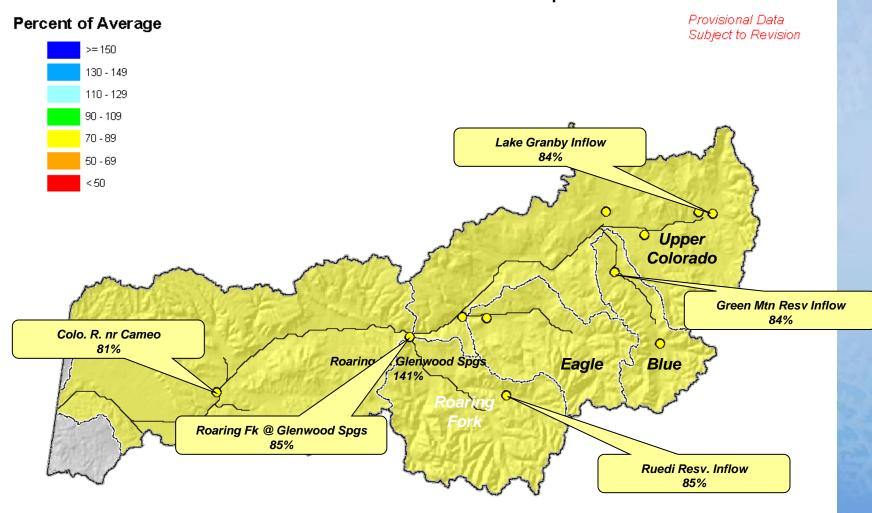
Colorado River Basin Reservoir Storage Map



COLORADO RIVER BASIN Reservoir Storage Departure from Average

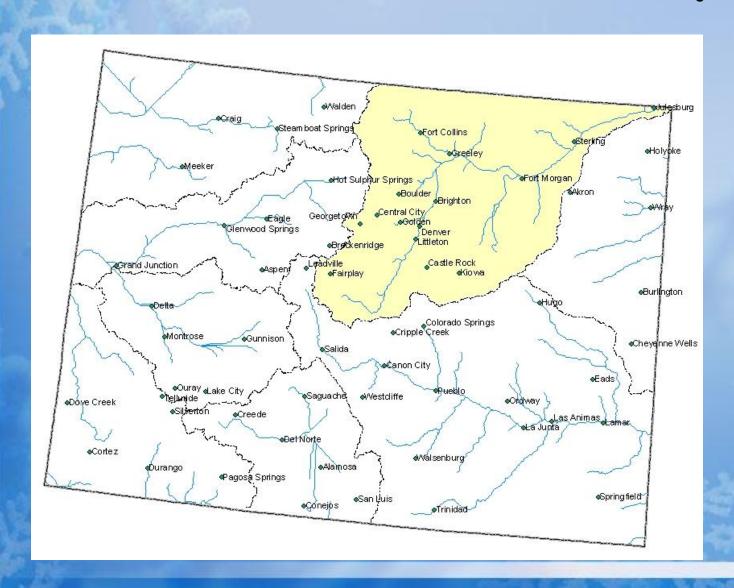


Colorado River Basin Streamflow Forecast Map

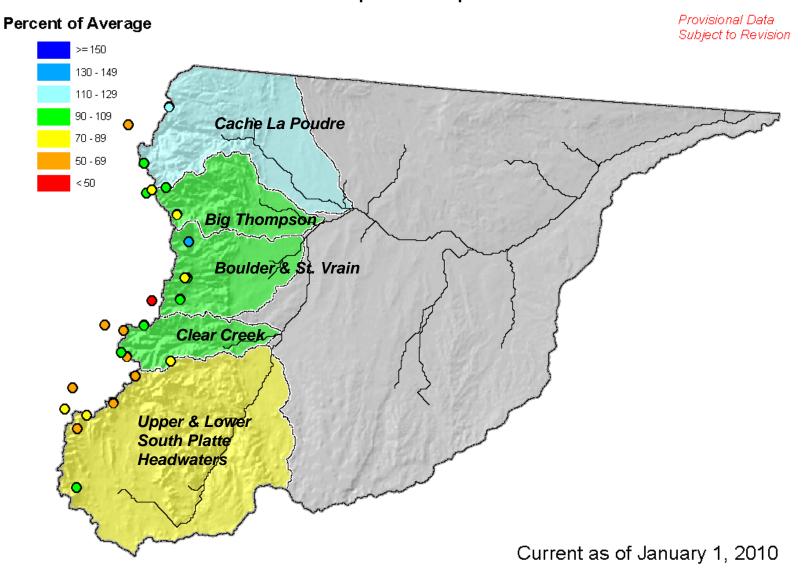


Current as of January 1, 2010

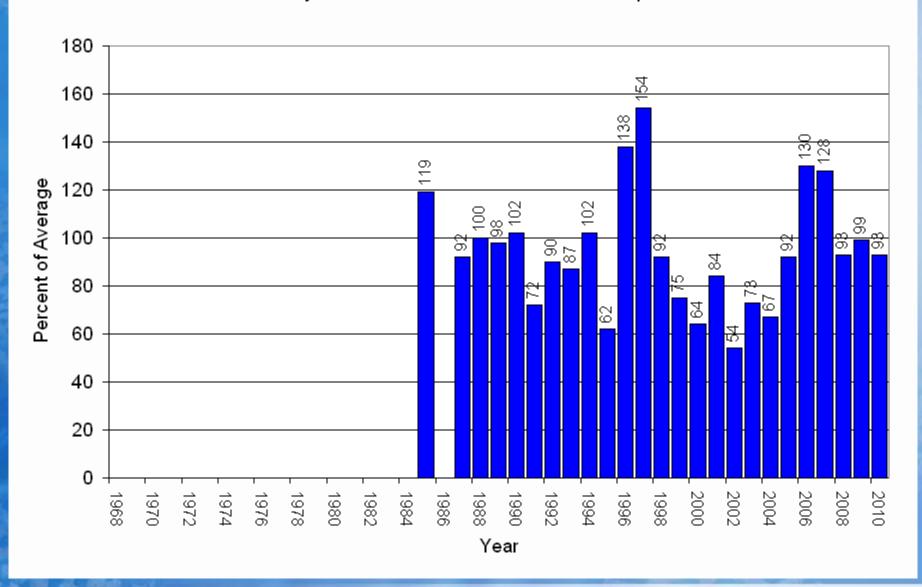
South Platte River Basin Summary

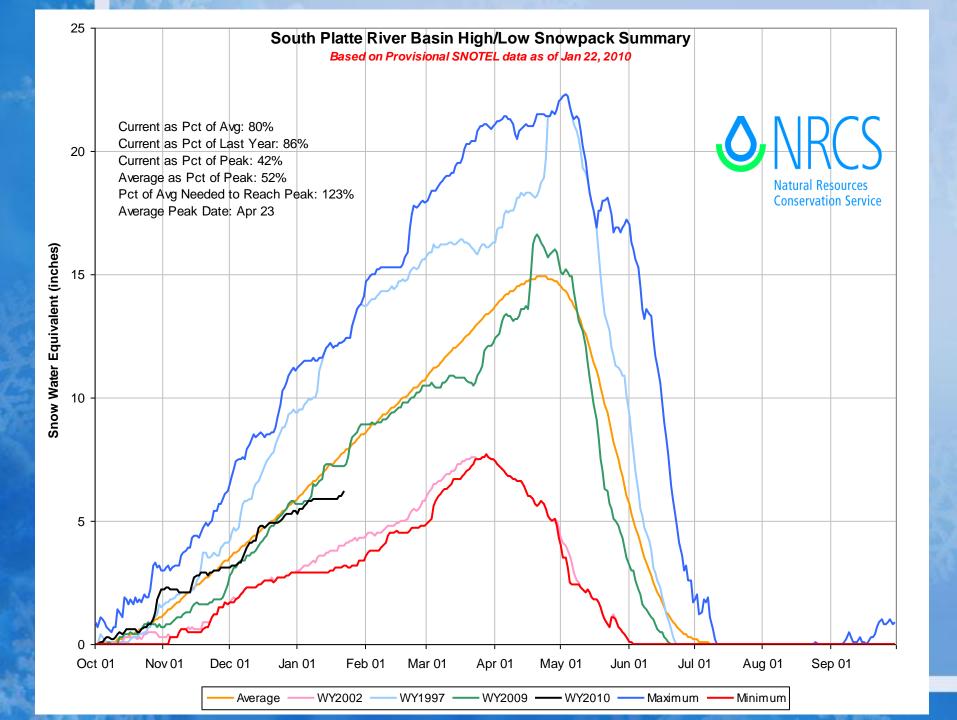


South Platte River Basin Snowpack Map



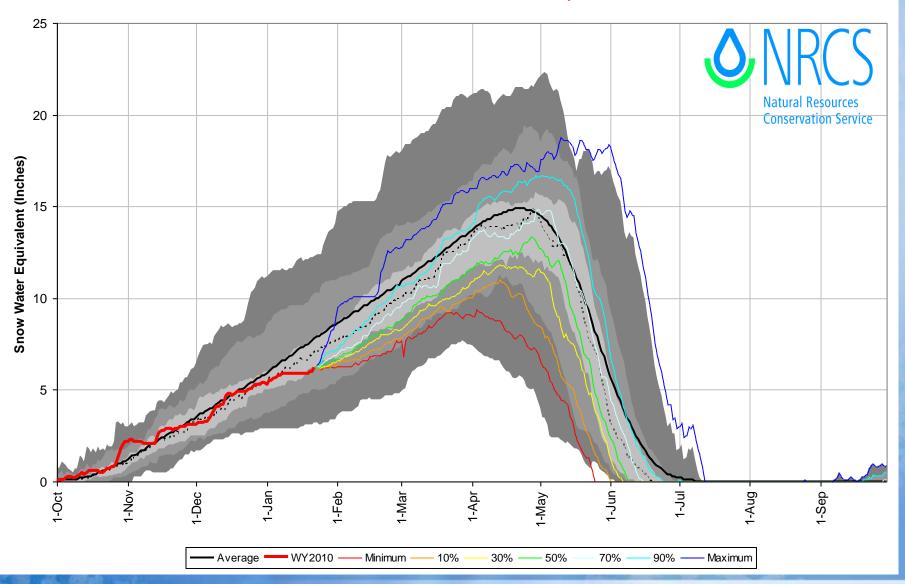
January 1 Total South Platte River Basin Snowpack





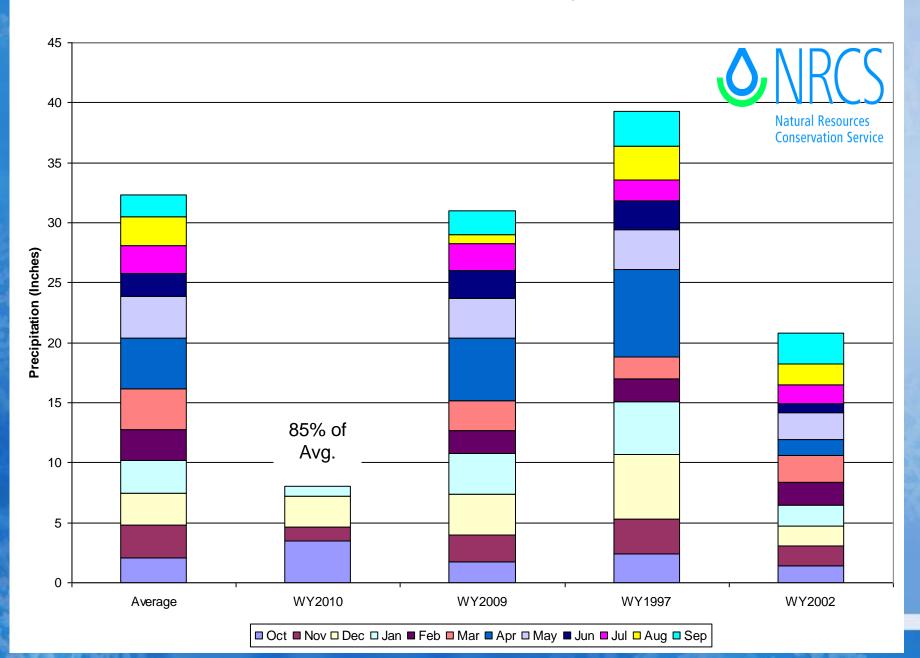
South Platte River Basin with Non-Exceedence Projections

Based on Provisional SNOTEL Data as of Jan 22, 2010

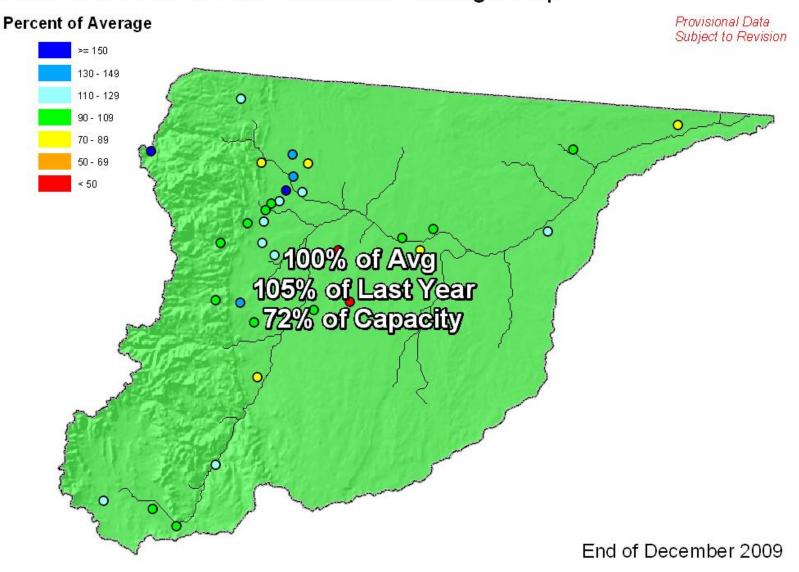


South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 22, 2010

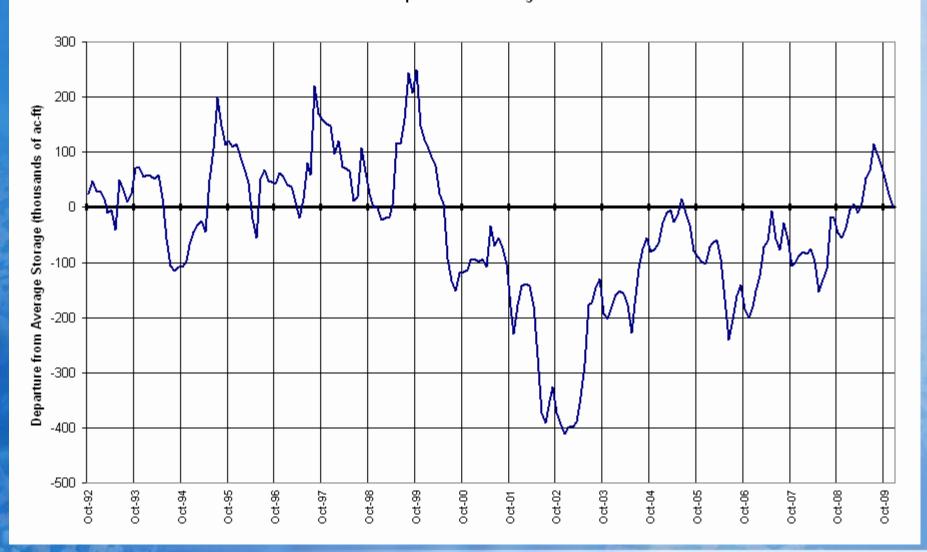


South Platte River Basin Reservoir Storage Map

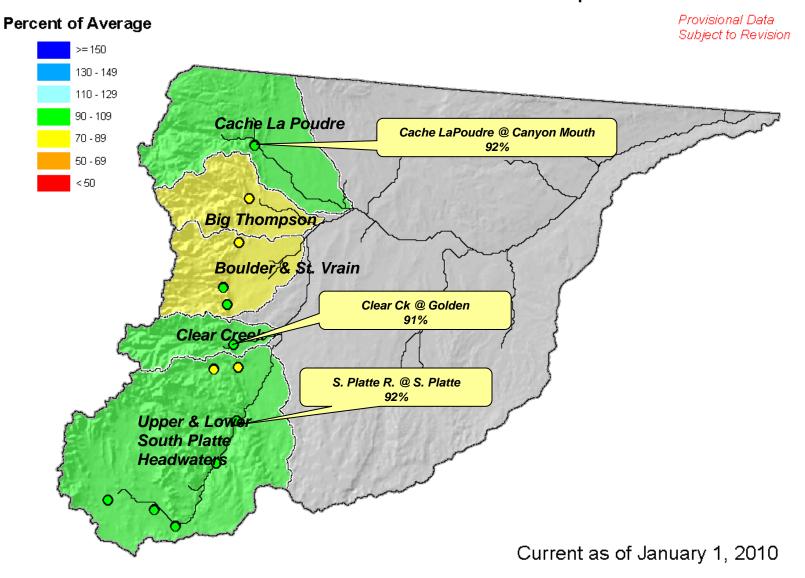


SOUTH PLATTE RIVER BASIN

Reservoir Storage Departure from Average



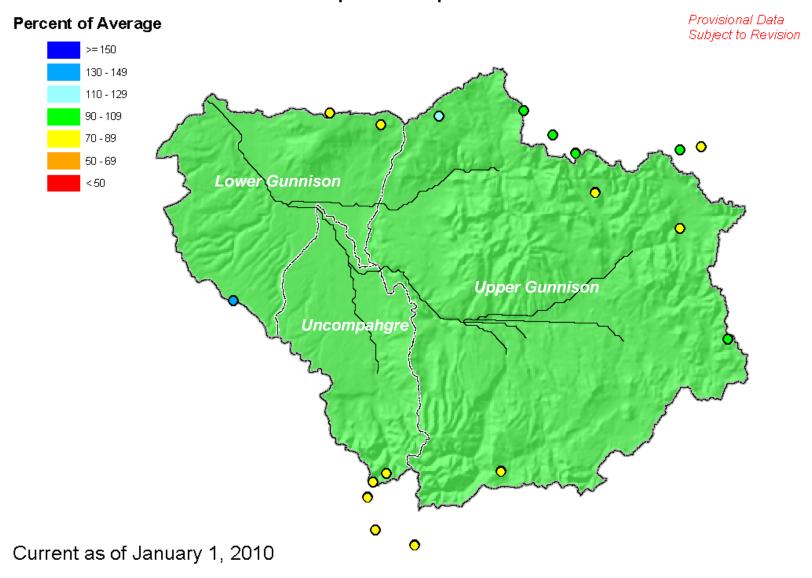
South Platte River Basin Streamflow Forecast Map



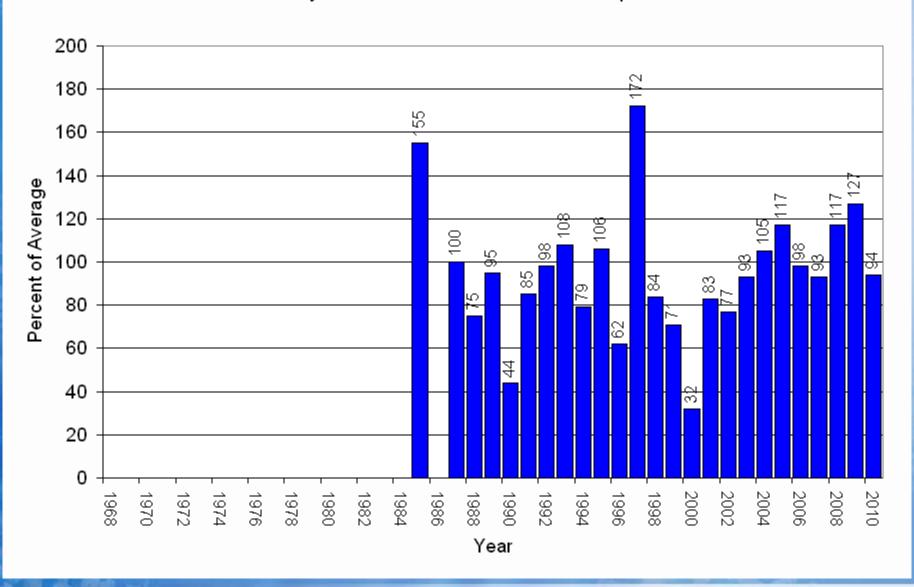
Gunnison River Basin Summary

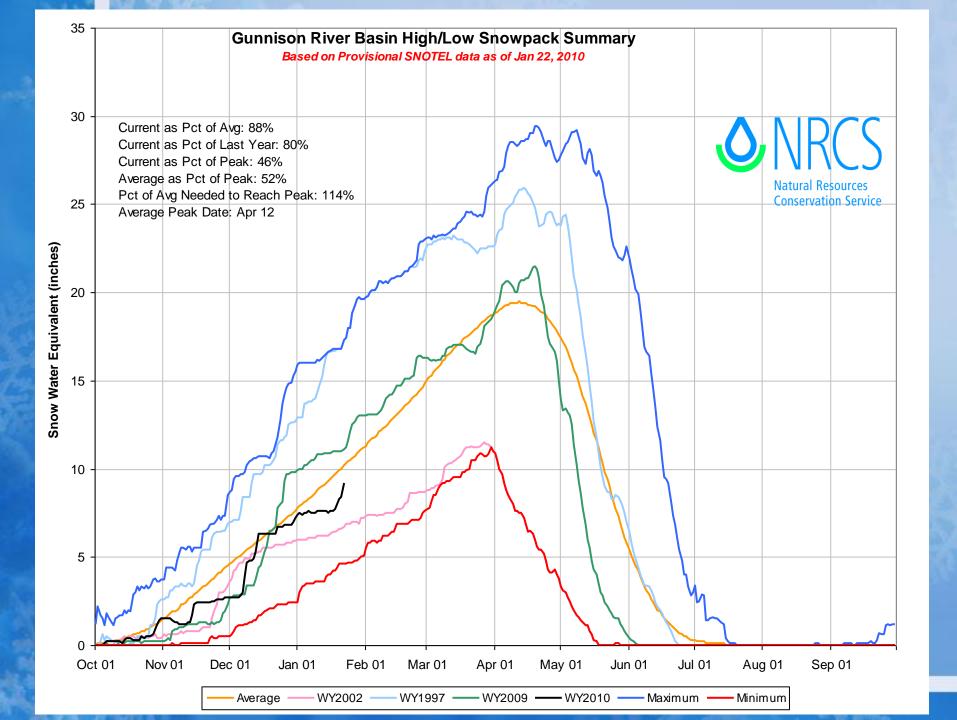


Gunnison River Basin Snowpack Map



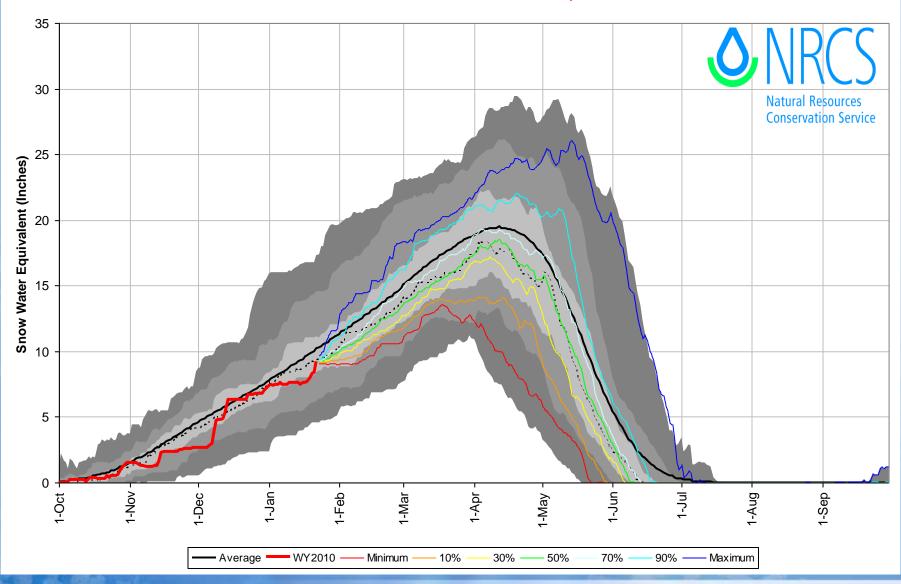
January 1 Total Gunnison River Basin Snowpack





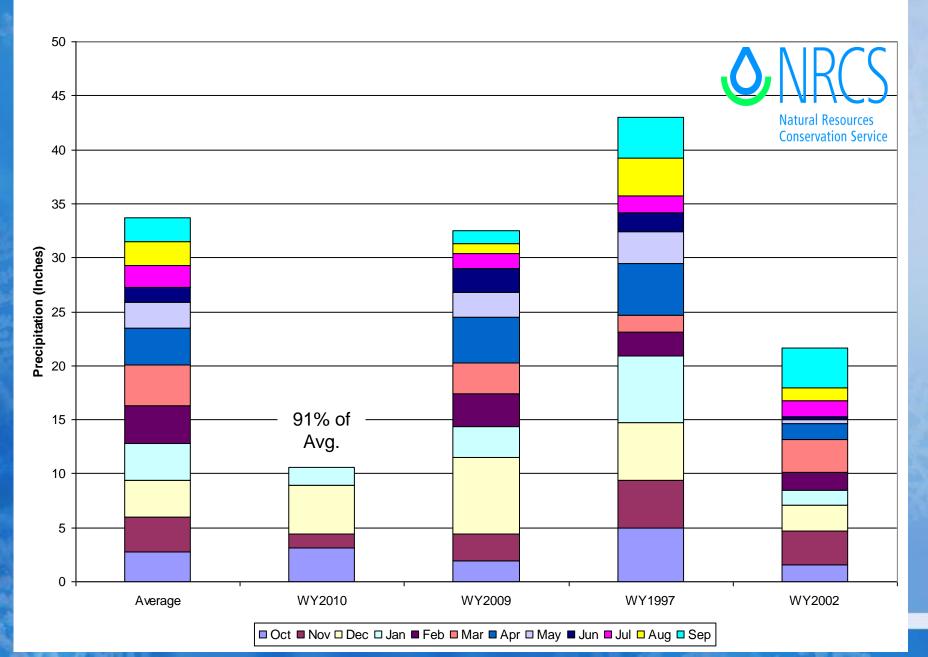
Gunnison River Basin with Non-Exceedence Projections

Based on Provisional SNOTEL Data as of Jan 22, 2010

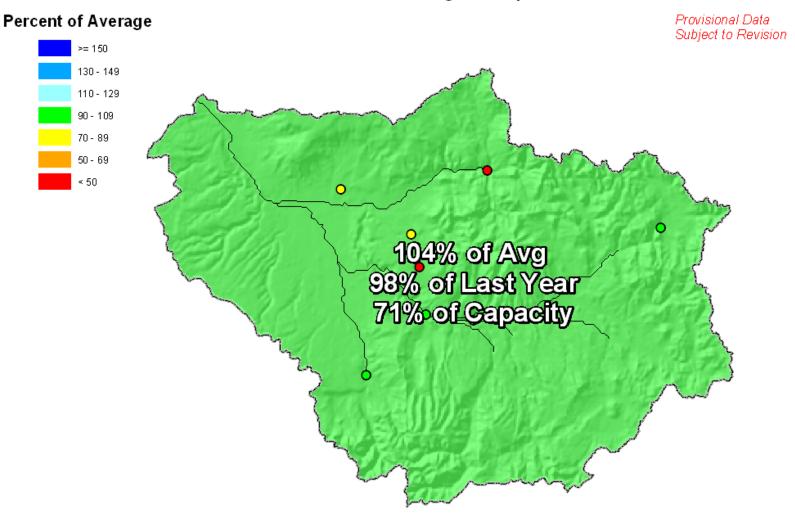


Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 22, 2010

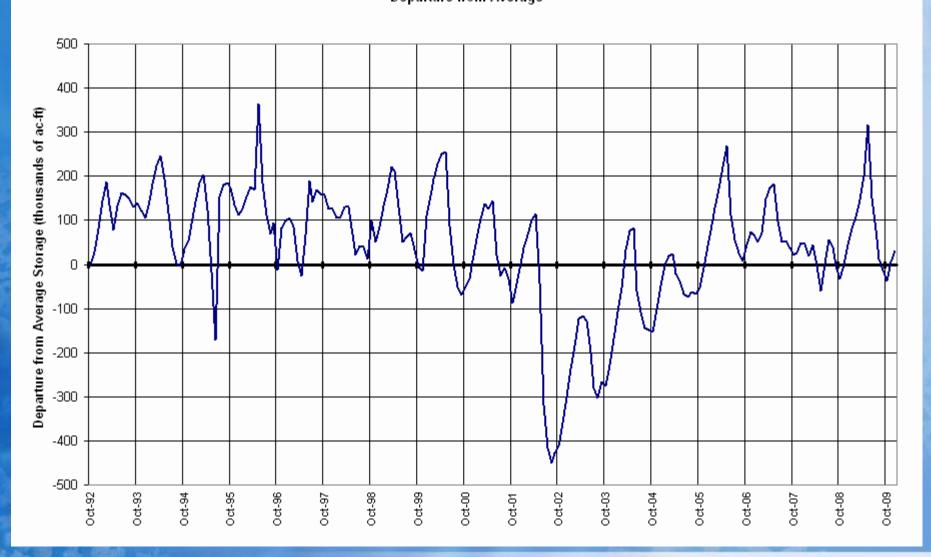


Gunnison River Basin Reservoir Storage Map

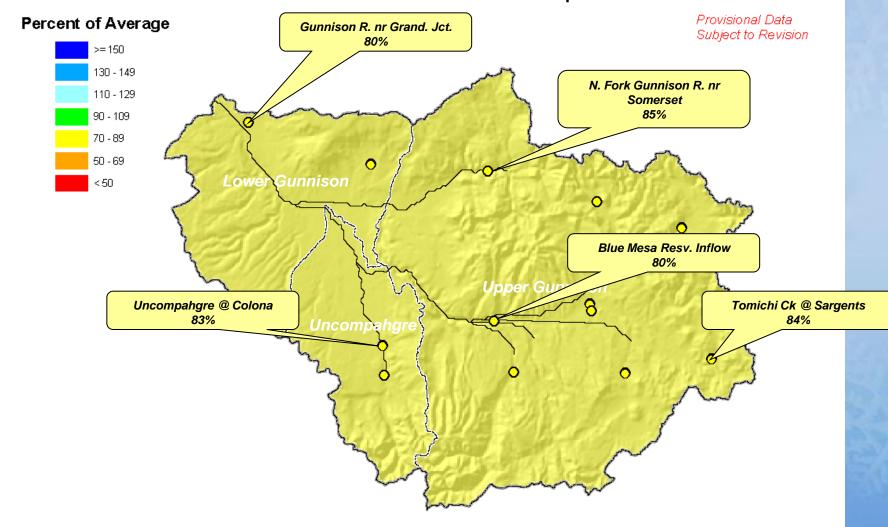


End of December 2009

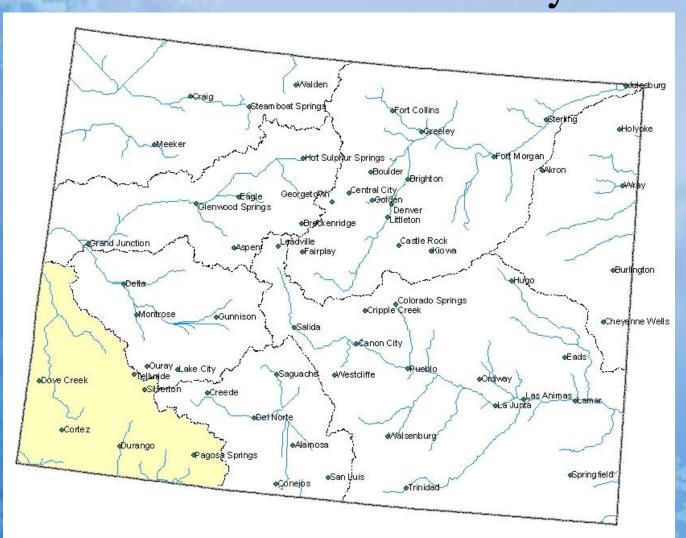
GUNNISON RIVER BASIN Reservoir Storage Departure from Average



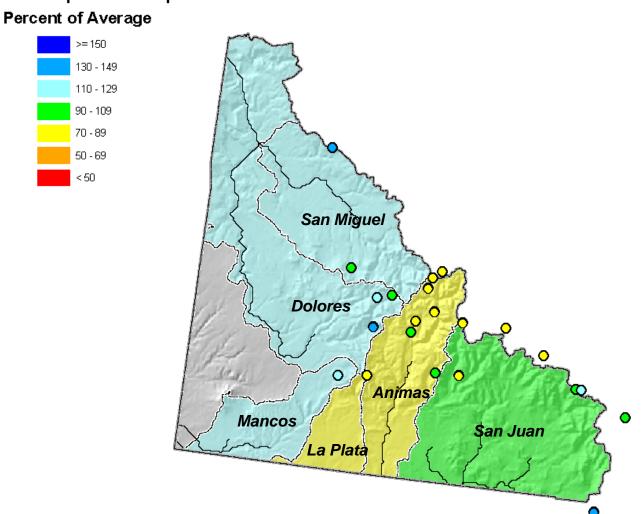
Gunnison River Basin Streamflow Forecast Map



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

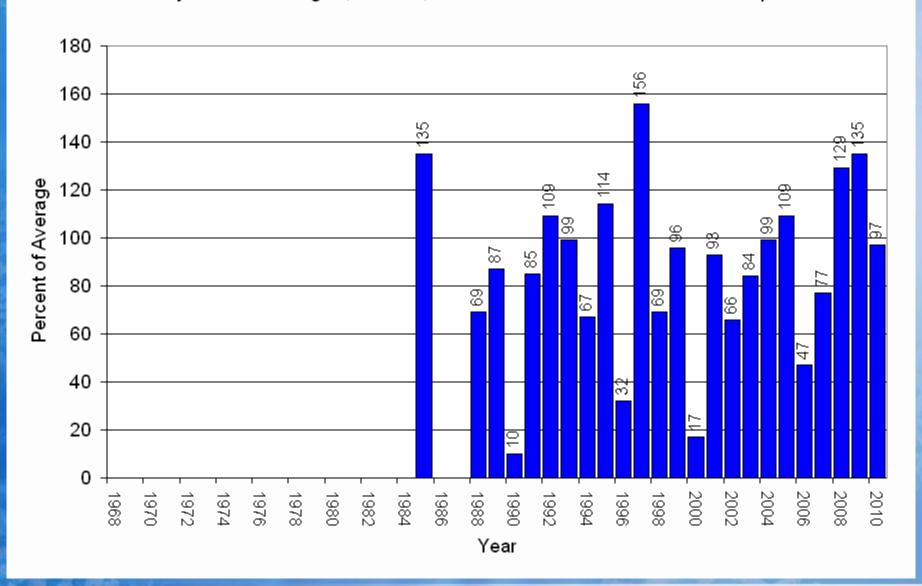


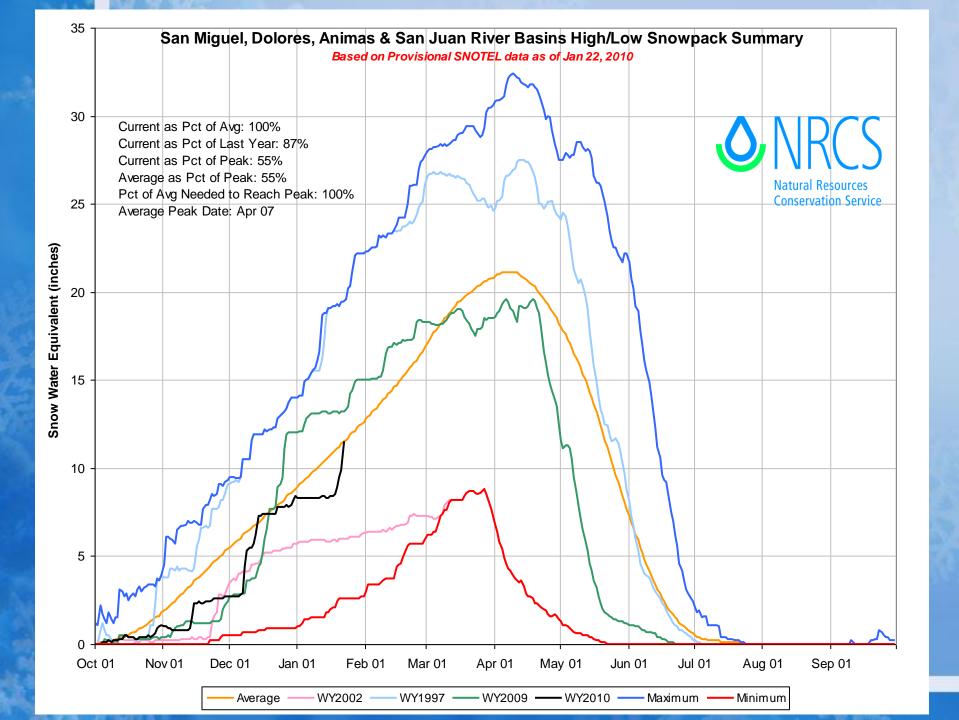
San Miguel, Dolores, Animas and San Juan River Basins Snowpack Map



Provisional Data Subject to Revision

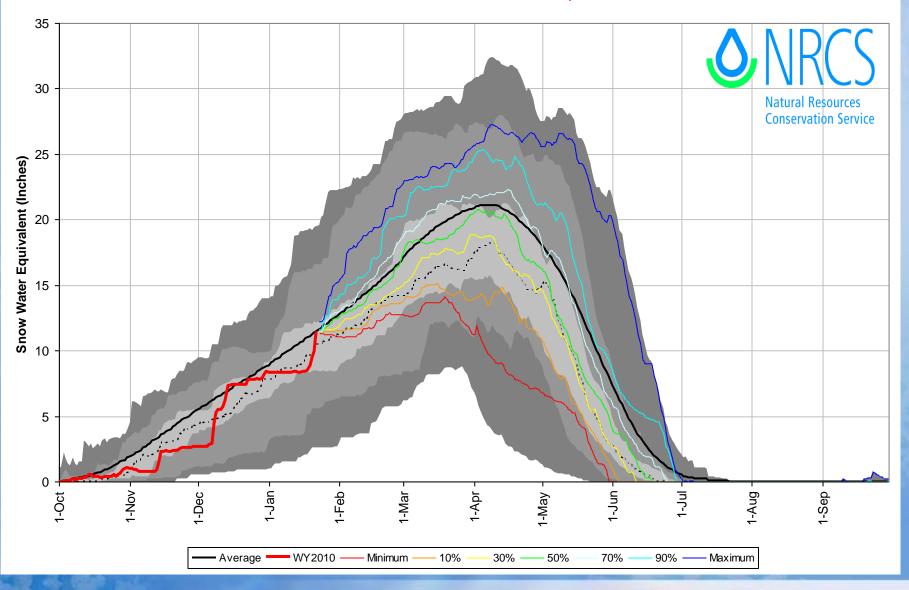
January 1 Total San Miguel, Dolores, Animas & San Juan River Basins Snowpack





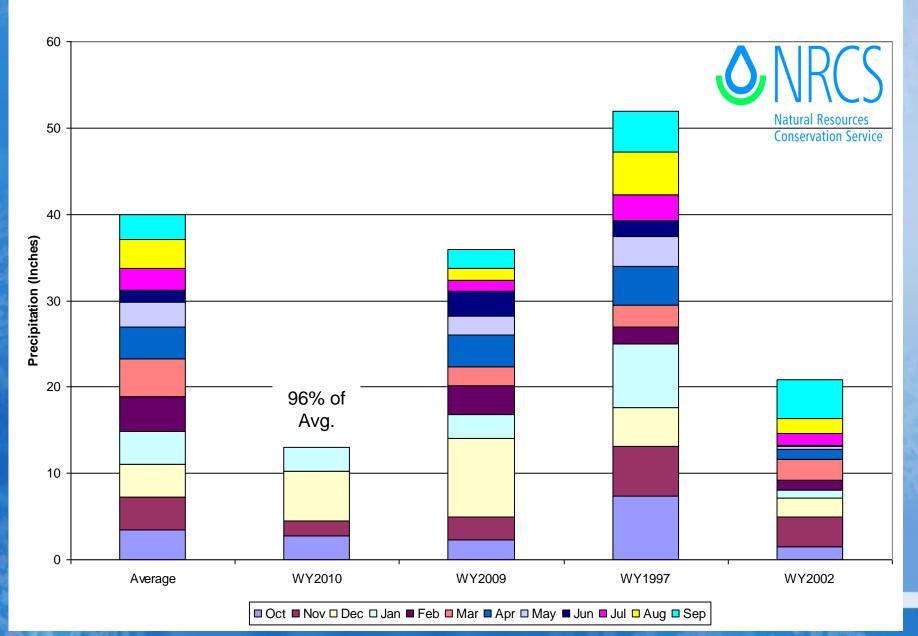
San Miguel, Dolores, Animas & San Juan River Basins with Non-Exceedence Projections

Based on Provisional SNOTEL Data as of Jan 22, 2010

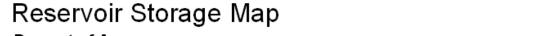


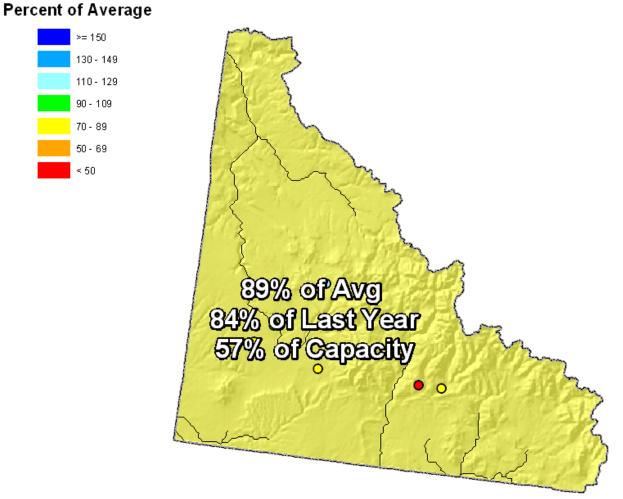
San Miguel, Dolores, Animas and San Juan River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 22, 2010



San Miguel, Dolores, Animas and San Juan River Basins

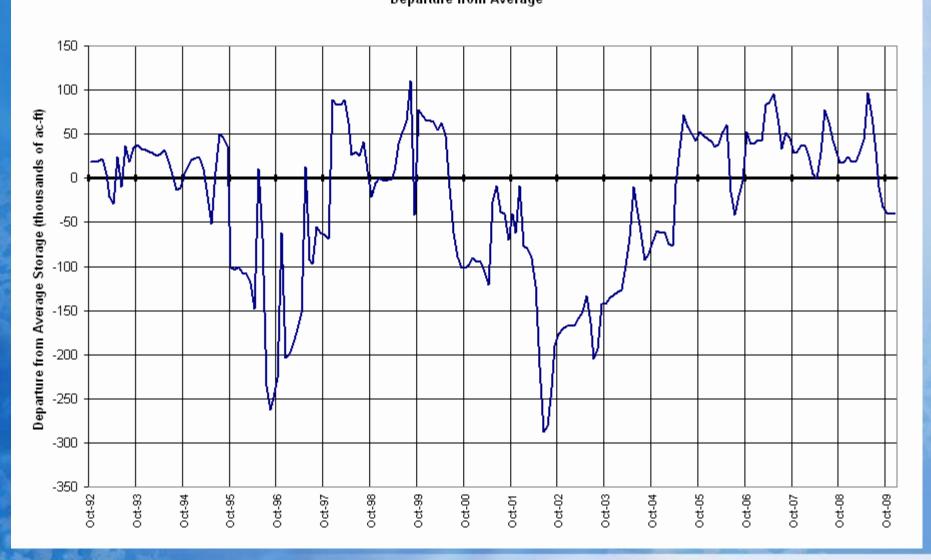




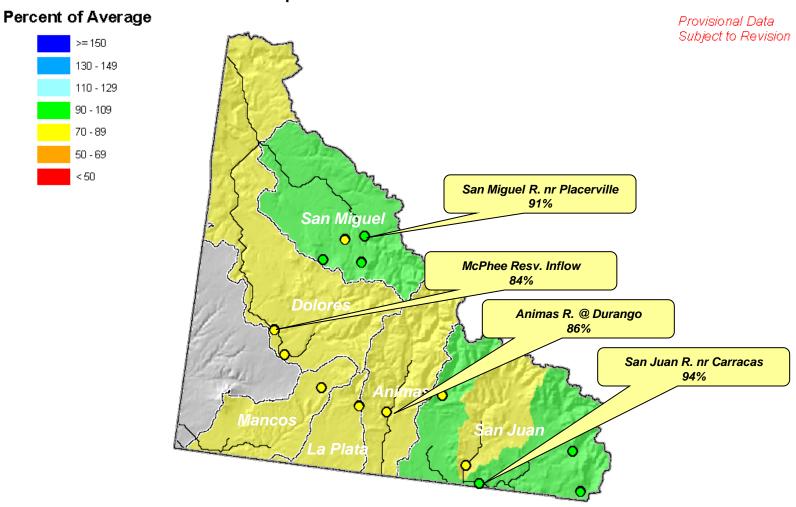
Provisional Data Subject to Revision

End of December 2009

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



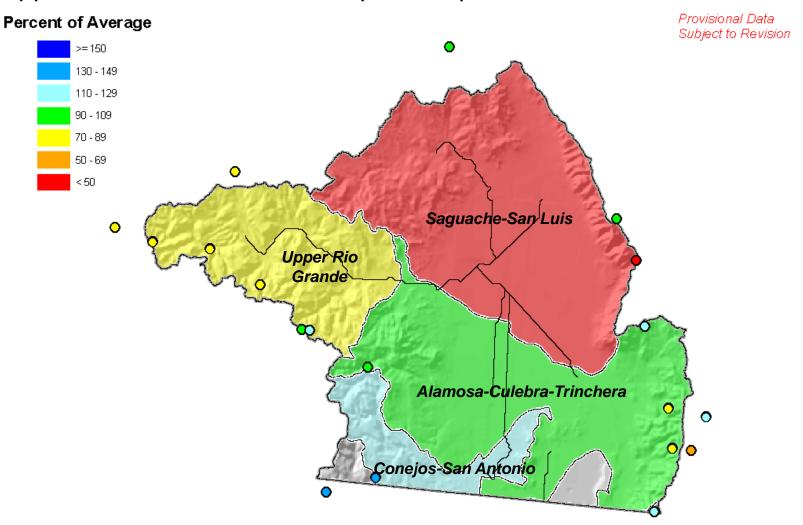
San Miguel, Dolores, Animas and San Juan River Basins Streamflow Forecast Map



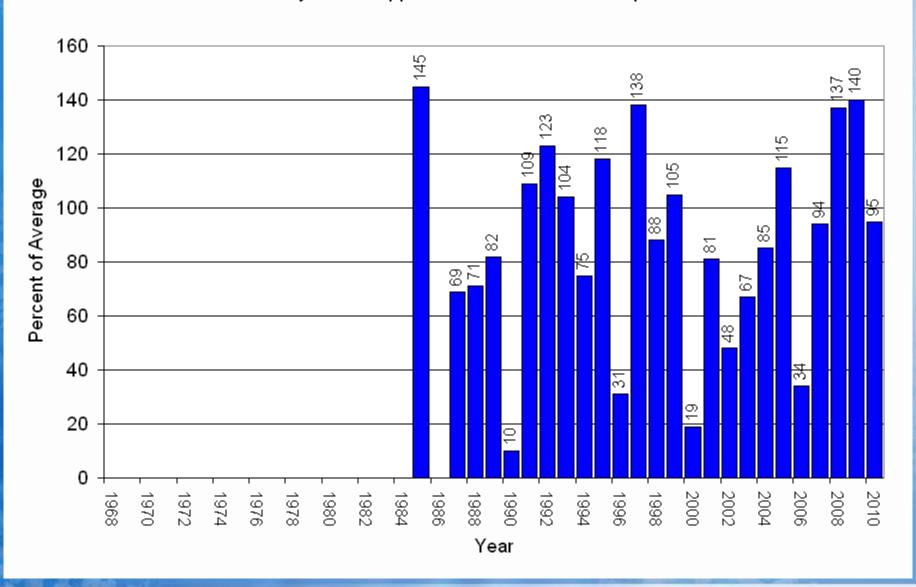
Upper Rio Grande Basin Summary

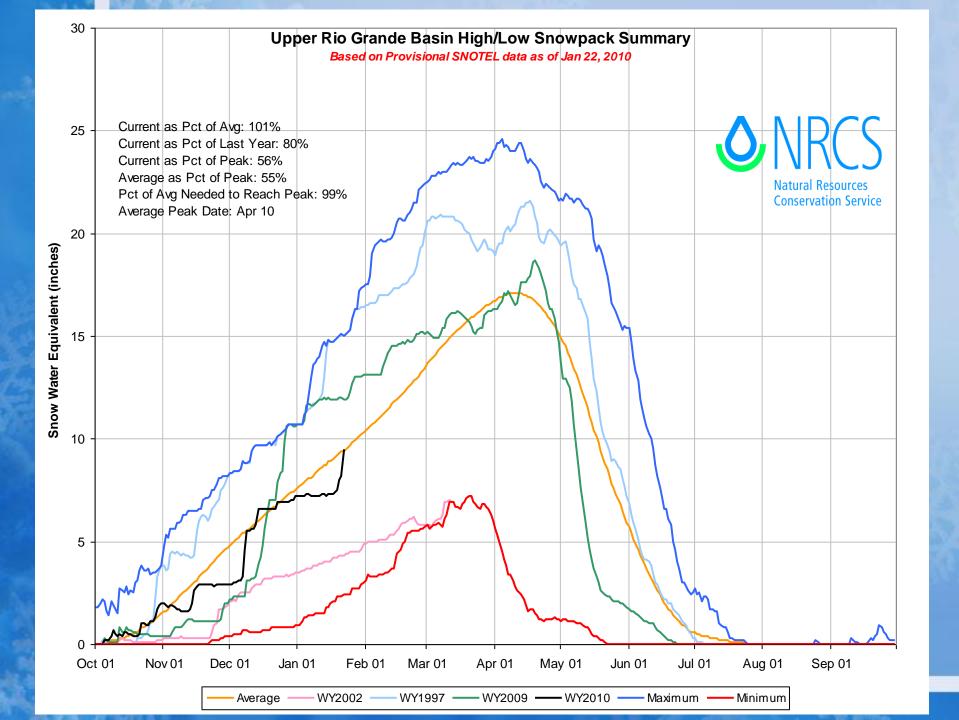


Upper Rio Grande Basin Snowpack Map



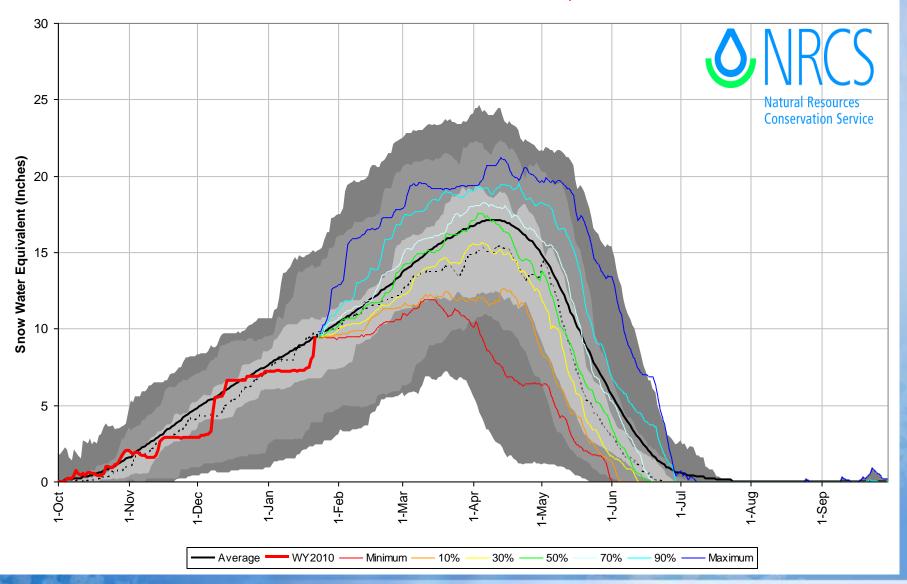
January 1 Total Upper Rio Grande Basin Snowpack





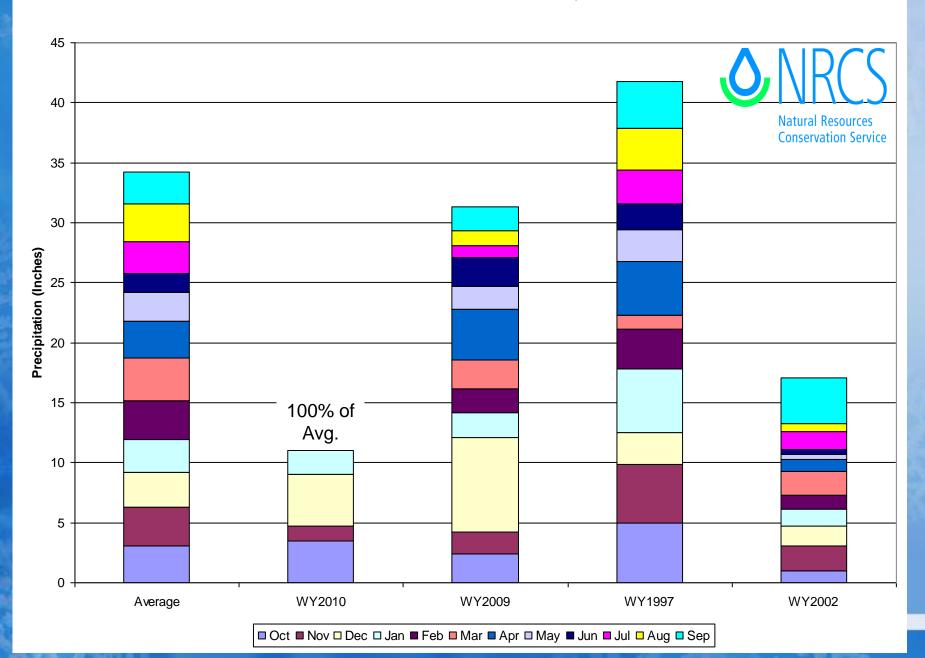
Upper Rio Grande Basin with Non-Exceedence Projections

Based on Provisional SNOTEL Data as of Jan 22, 2010

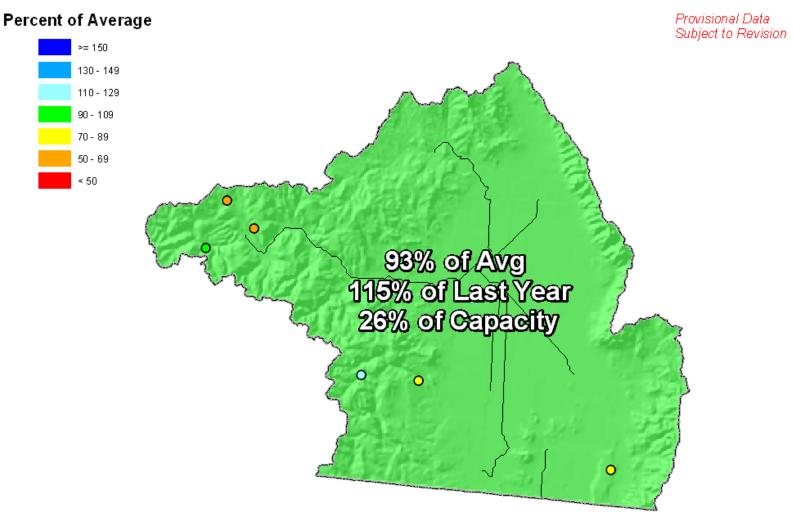


Upper Rio Grande Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 22, 2010

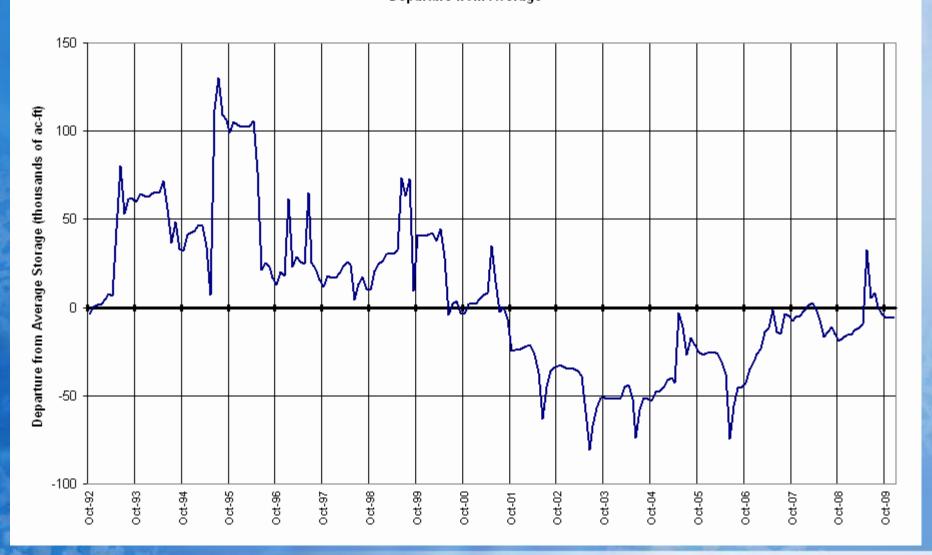


Upper Rio Grande Basin Reservoir Storage Map

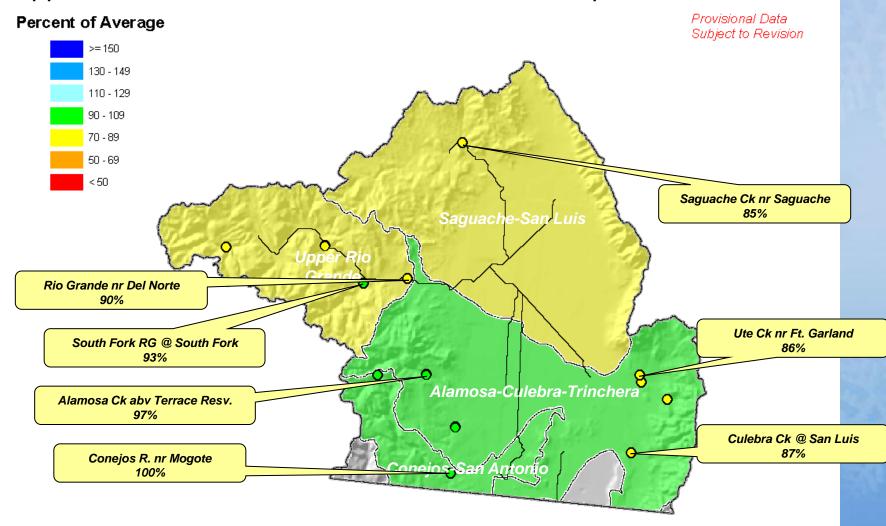


End of December 2009

UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



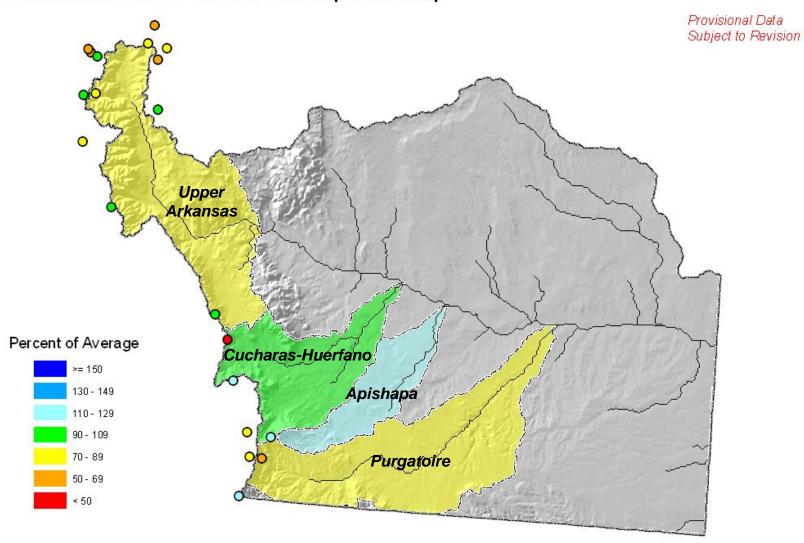
Upper Rio Grande Basin Streamflow Forecast Map



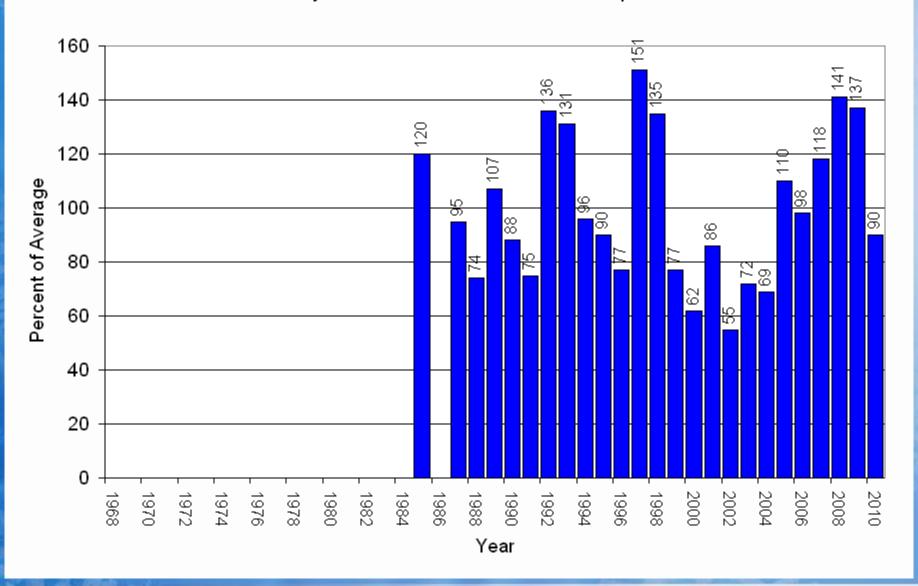
Arkansas River Basin Summary

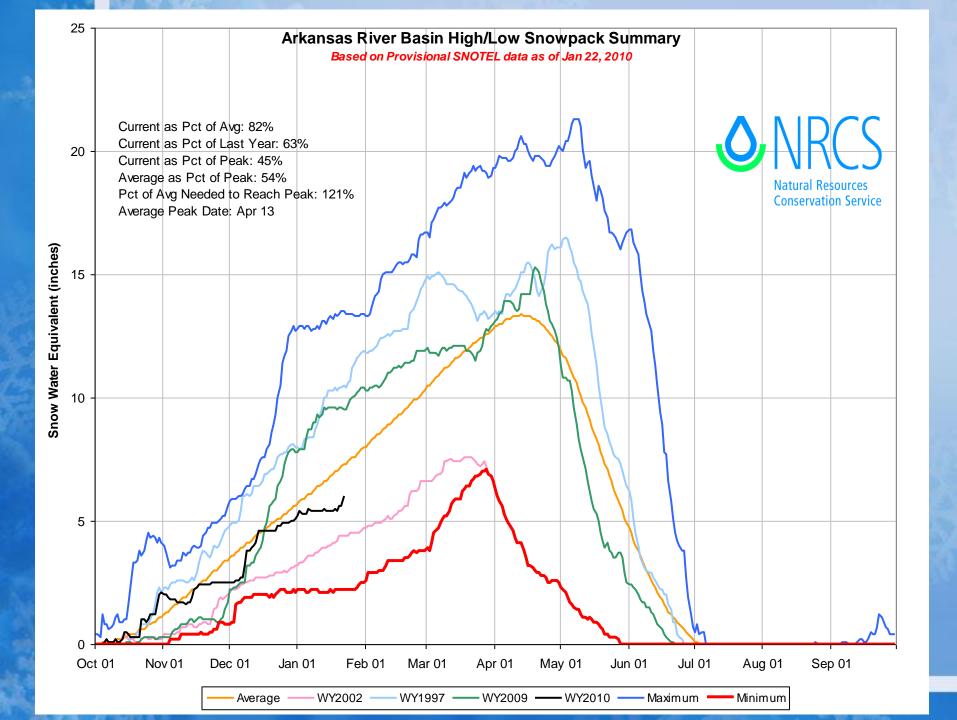


Arkansas River Basin Snowpack Map



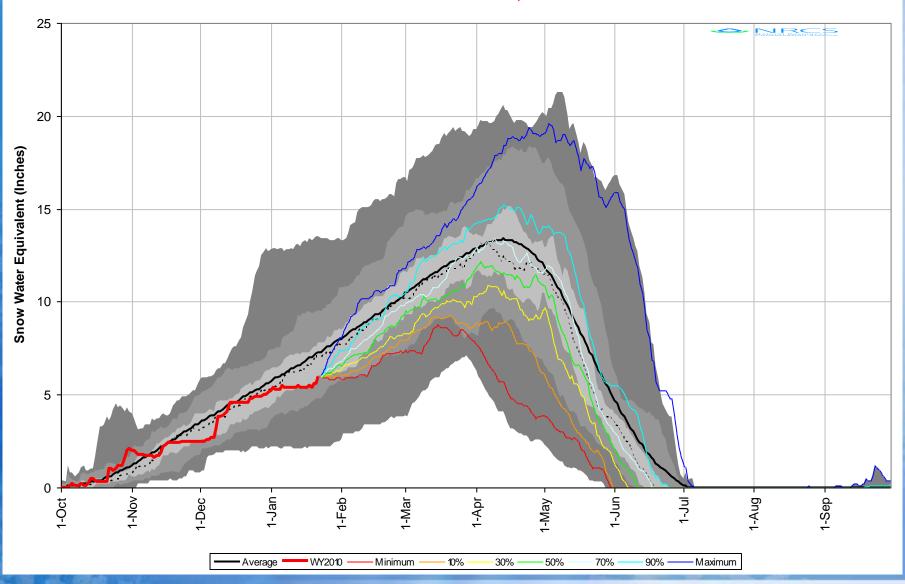
January 1 Total Arkansas River Basin Snowpack





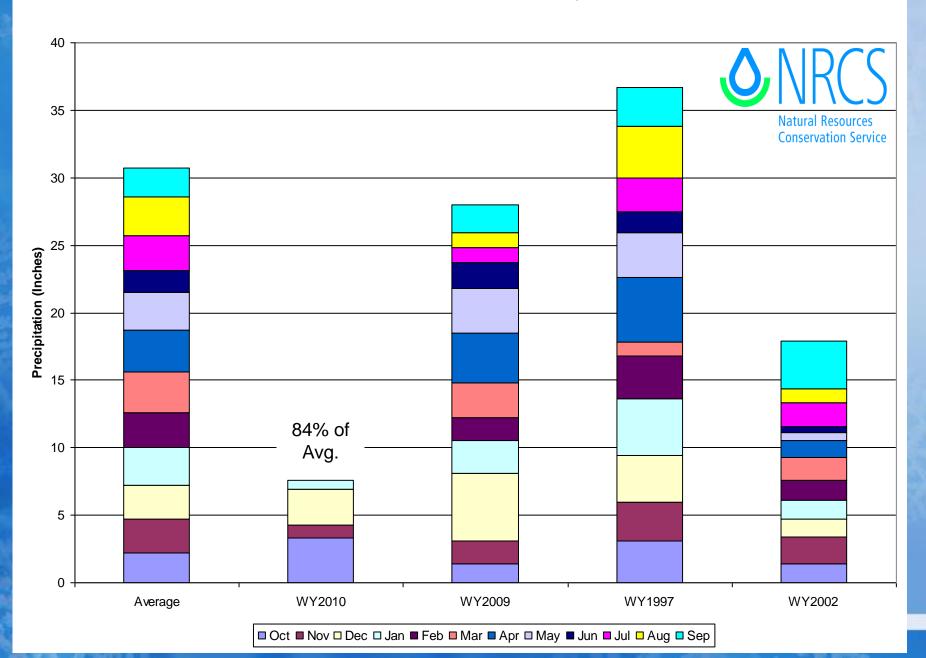
Arkansas River Basin with Non-Exceedence Projections

Based on Provisional SNOTEL Data as of Jan 22, 2010

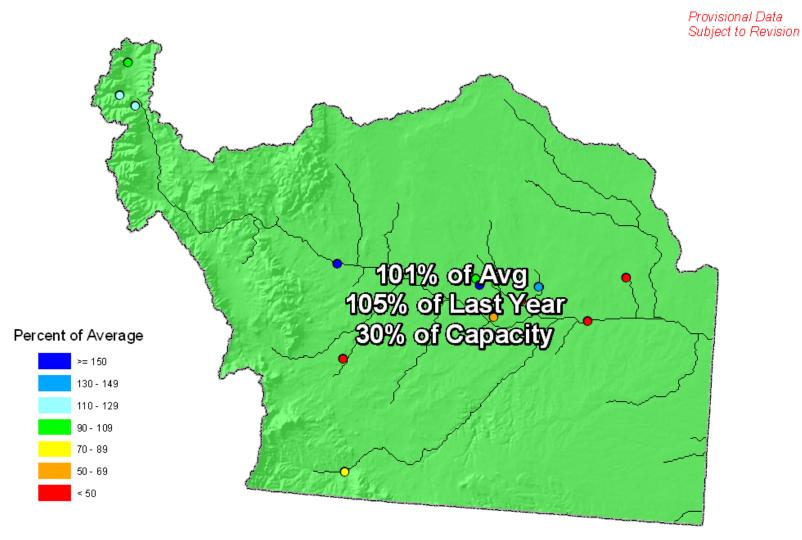


Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jan 22, 2010

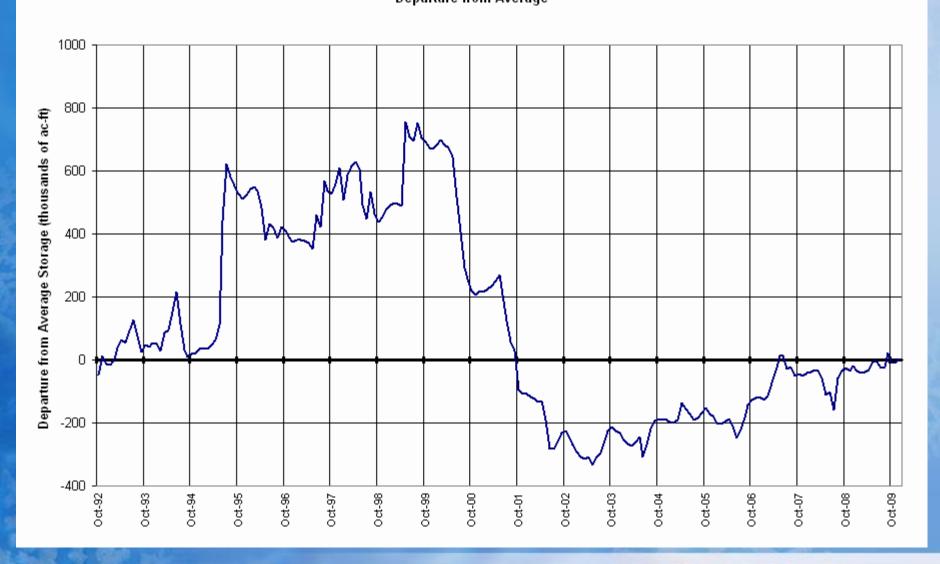


Arkansas River Basin Reservoir Storage Map

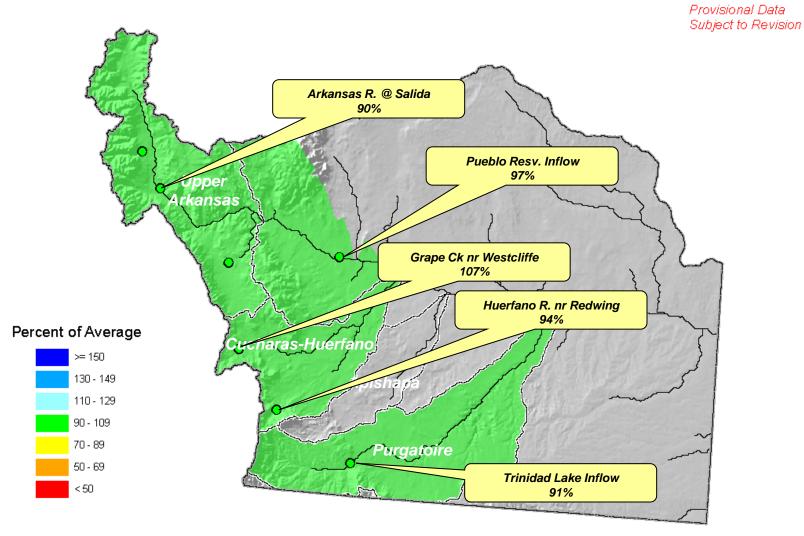


End of December 2009

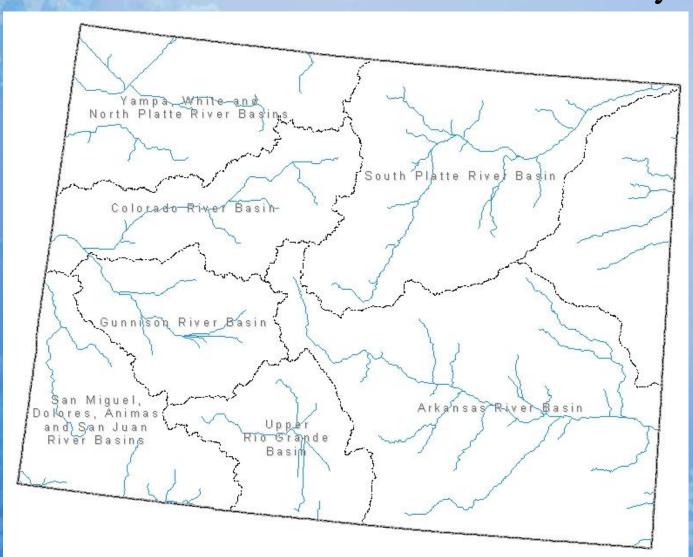
ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



Arkansas River Basin Streamflow Forecast Map

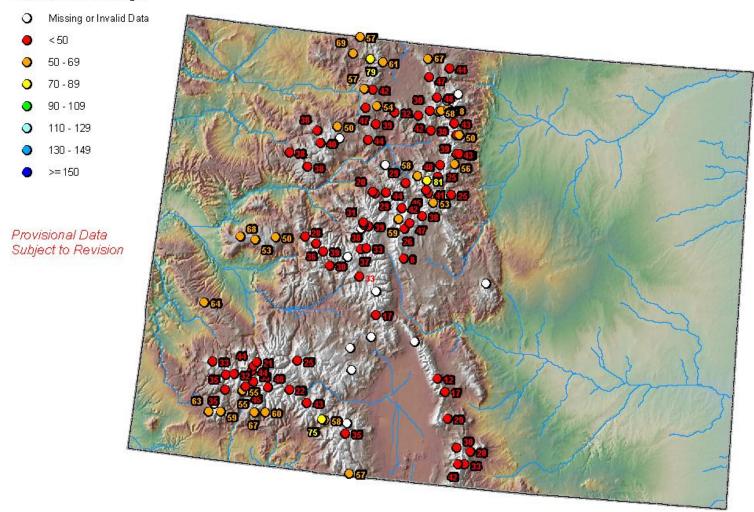


Colorado Statewide Summary



Colorado SNOTEL Month-to-Date Precipitation

Percent of Average

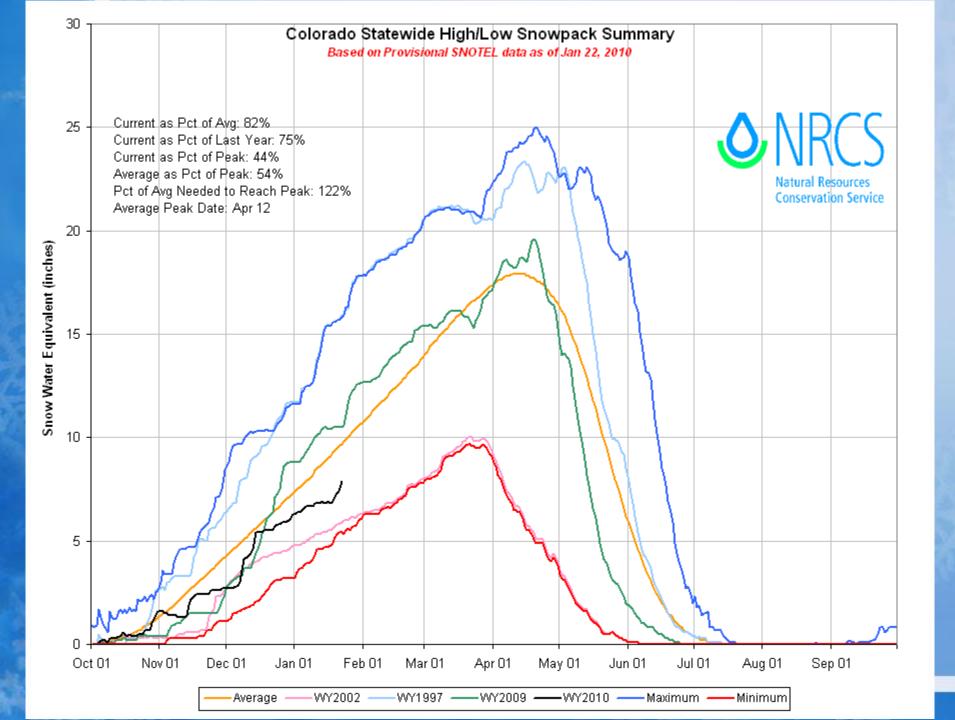


Current as of Jan 21, 2010

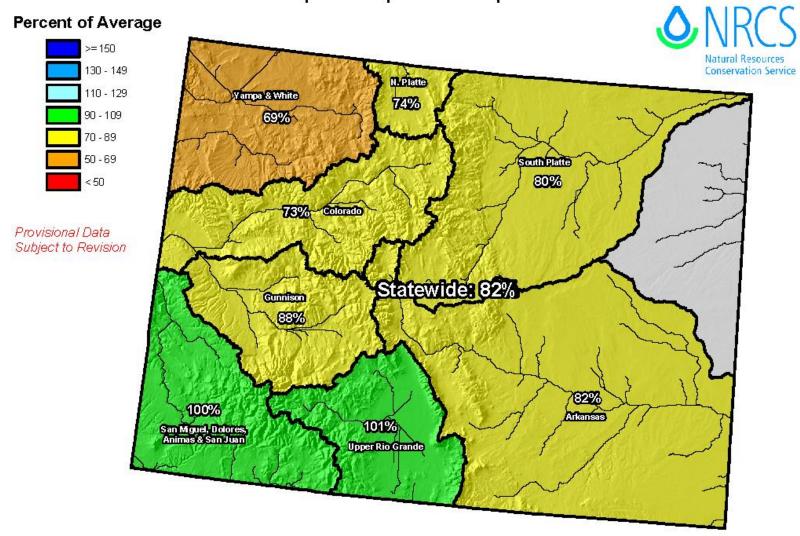
Colorado SNOTEL Month-to-Date Precipitation

Percent of Average Missing or Invalid Data < 50 50 - 69 70 - 89 90 - 109 110 - 129 130 - 149 >= 150 Provisional Data Subject to Revision

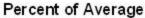
Current as of Jan 22, 2010

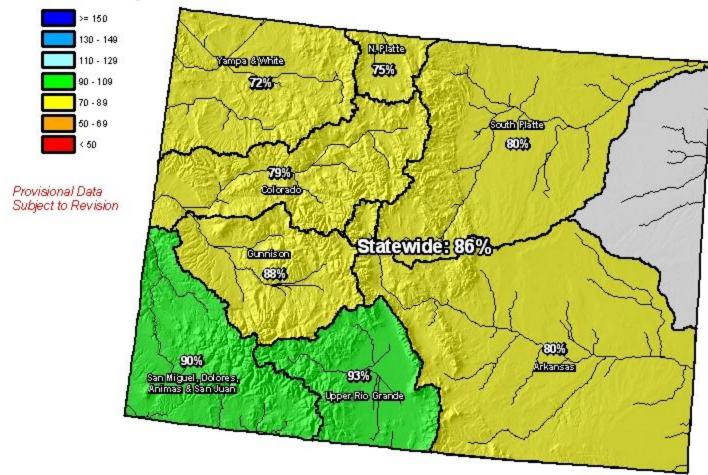


Colorado SNOTEL Snowpack Update Map



Colorado SNOTEL April 1 Snowpack Projection Map*

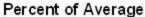


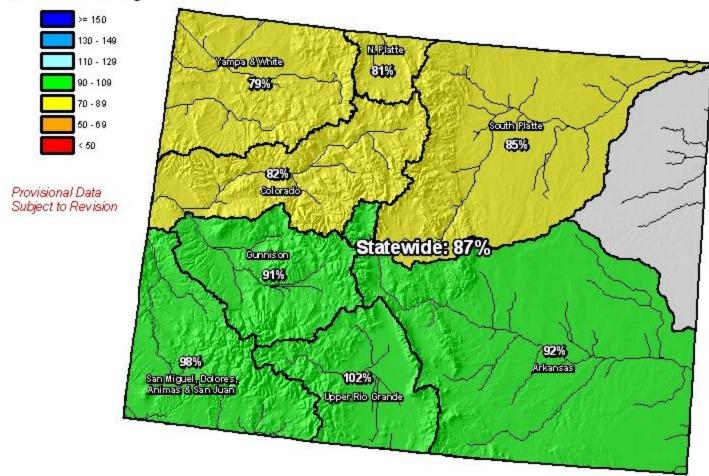


Current as of Jan 22, 2010

*Based on 30% Non-Exceedence Projections

Colorado SNOTEL April 1 Snowpack Projection Map*

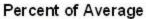


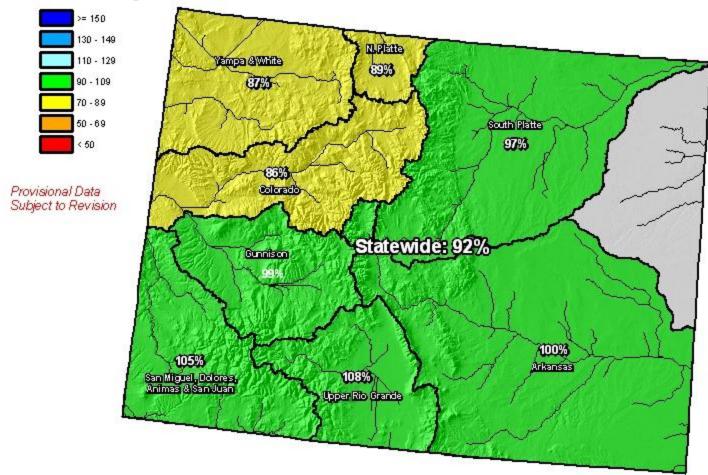


Current as of Jan 22, 2010

*Based on 50% Non-Exceedence Projections

Colorado SNOTEL April 1 Snowpack Projection Map*

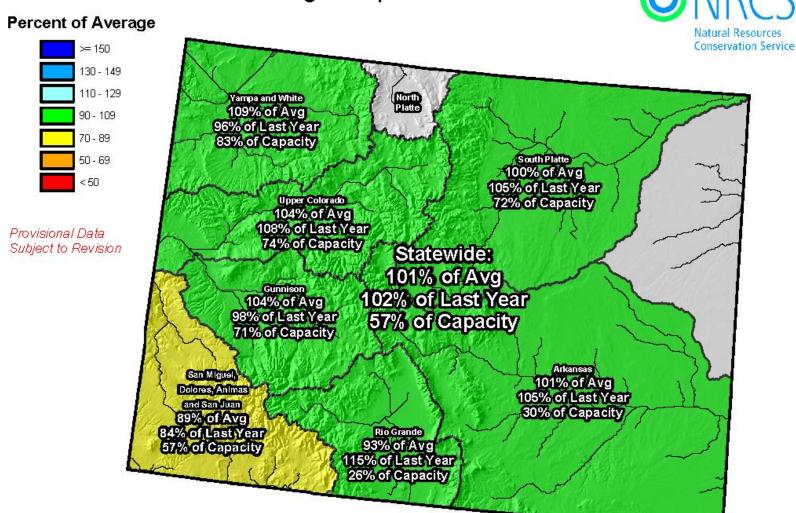




Current as of Jan 22, 2010

*Based on 70% Non-Exceedence Projections

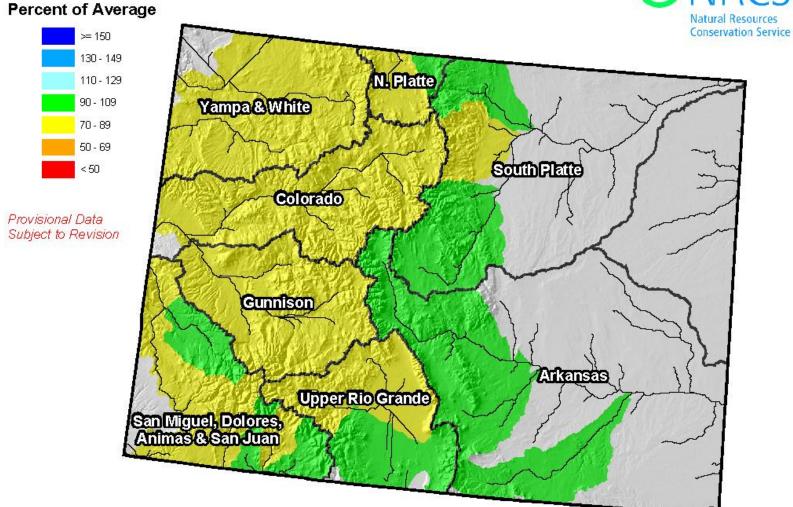
Colorado Reservoir Storage Map



End of December 2009

Colorado Streamflow Forecast Map





Colorado Surface Water Supply Index (SWSI) Map



