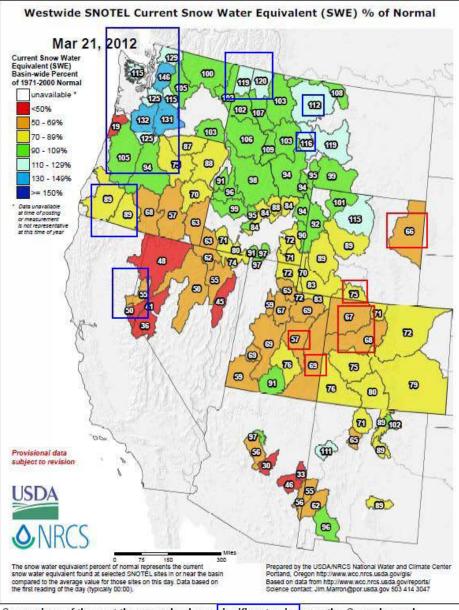
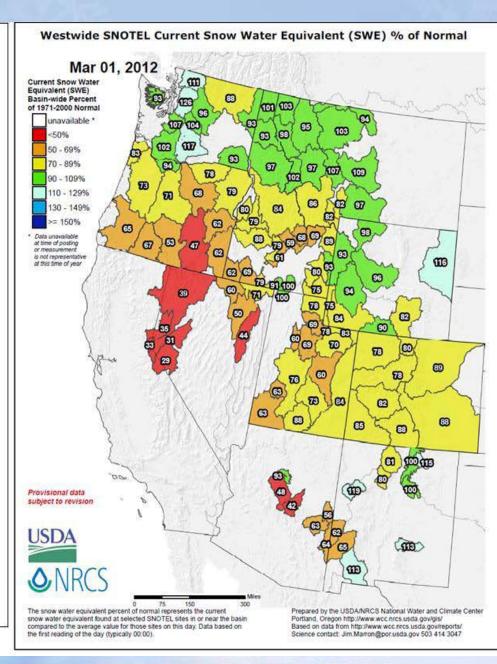
NRCS – Snow Survey & Water Supply Forecasting

Mage Hultstrand

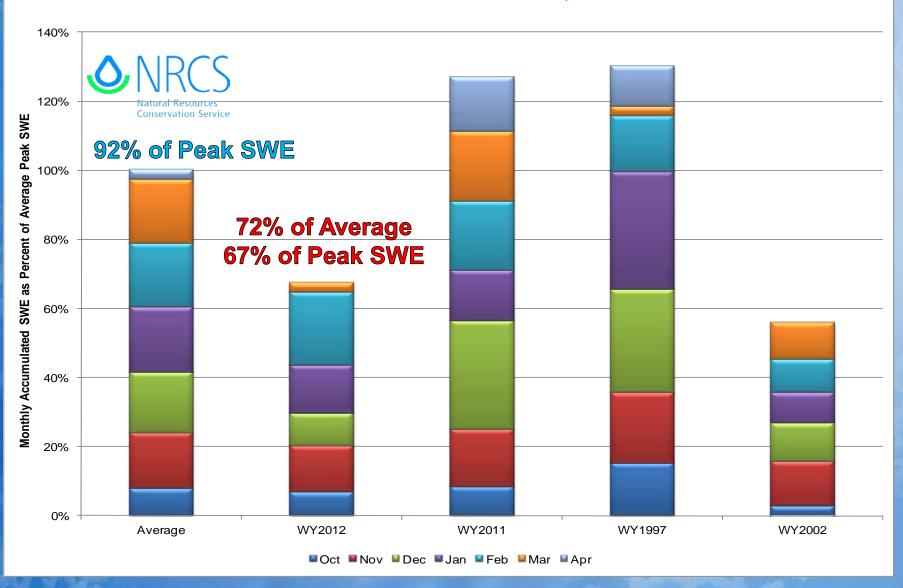
Water Availability Task Force Meeting March 22, 2012



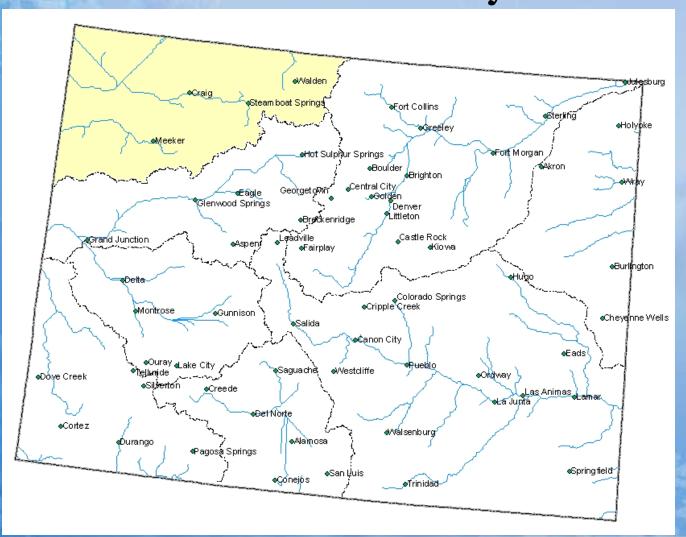
Comparison of the past three weeks shows <mark>significant gains</mark> over the Cascades and Northern Sierra although there, larges SWE deficits still persist.



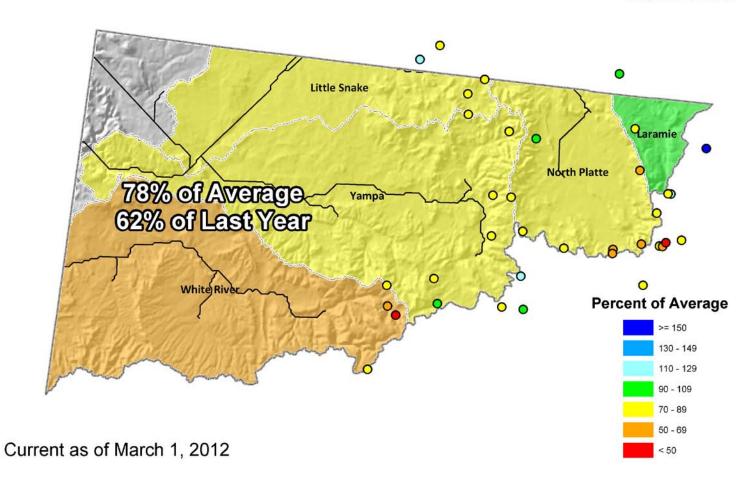
Colorado Statewide High/Low Monthly Snowpack Summary



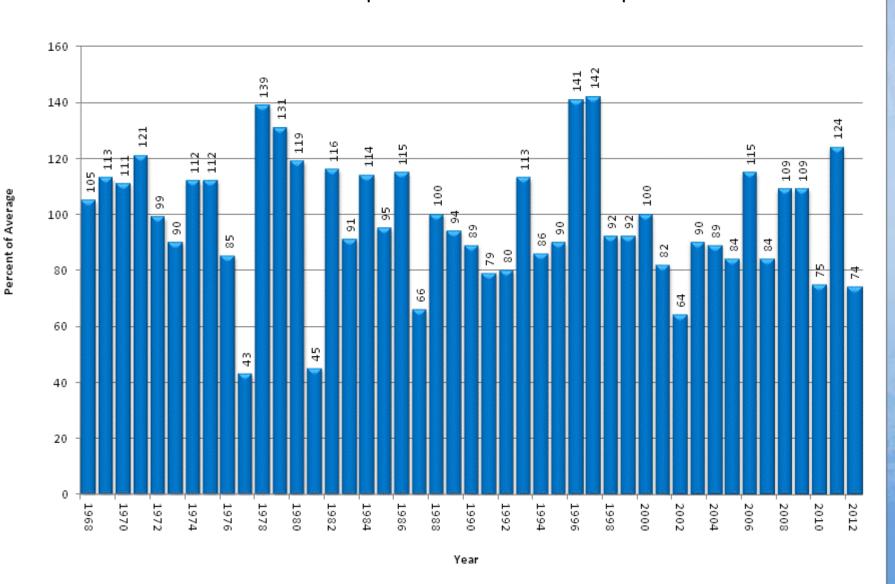
Yampa, White & North Platte River Basins Summary



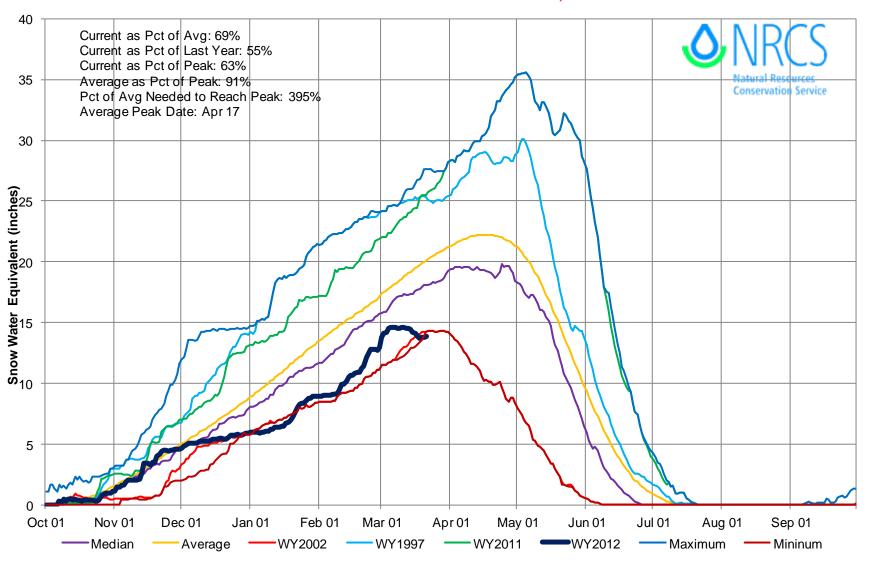
Yampa, White and North Platte River Basins Snowpack Map



March 1 Total Yampa & White River Basins Snowpack

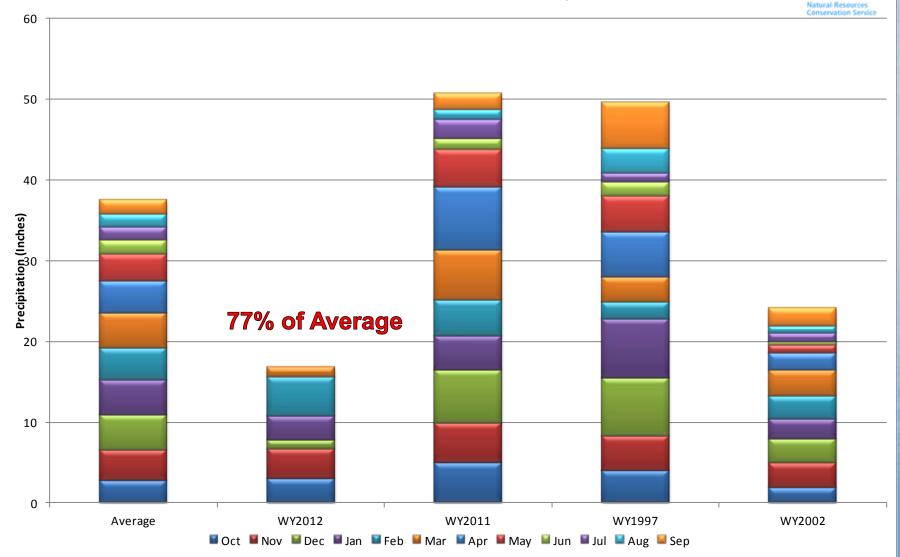


Yampa, White and North Platte River Basins High/Low Snowpack Summary

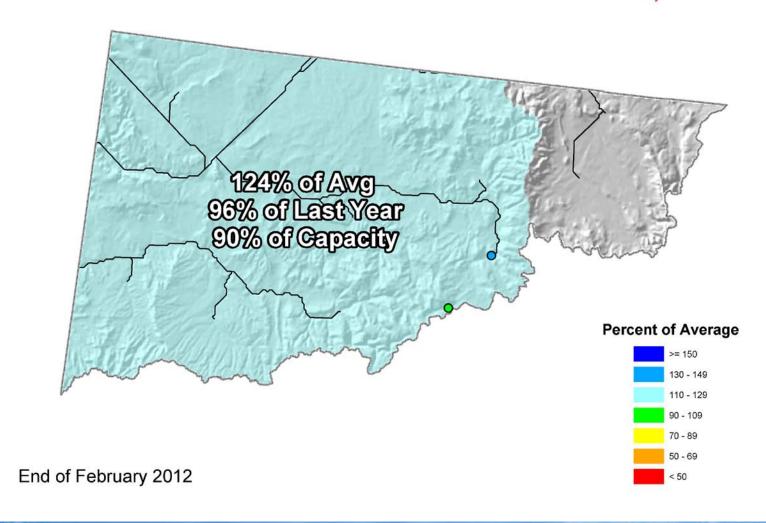


Yampa and White River Basins High/Low Monthly Precipitation Summary

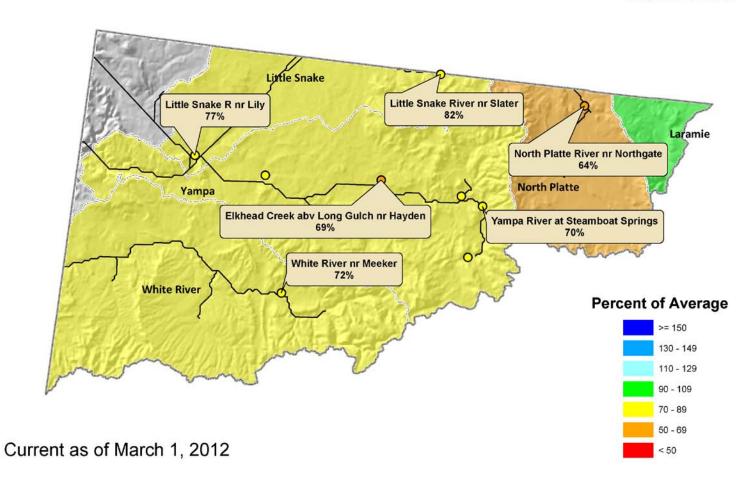




Yampa & White River Basins Reservoir Storage Map

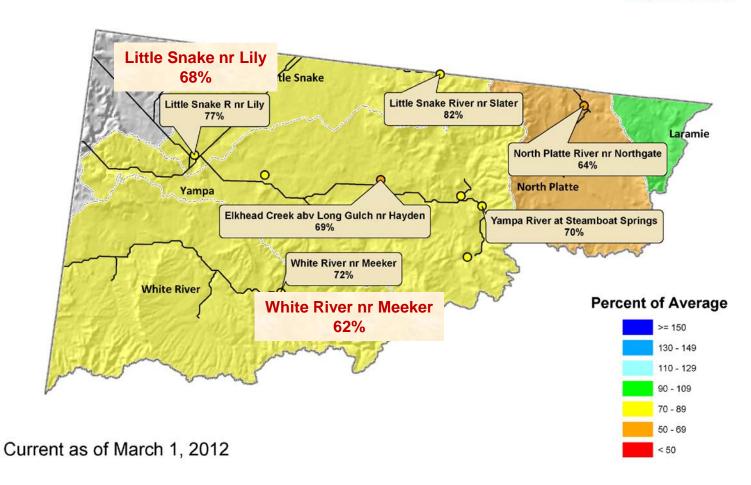


Yampa, White and North Platte River Basins Streamflow Map



Forecasts Updated March 19, 2012

Yampa, White and North Platte River Basins Streamflow Map

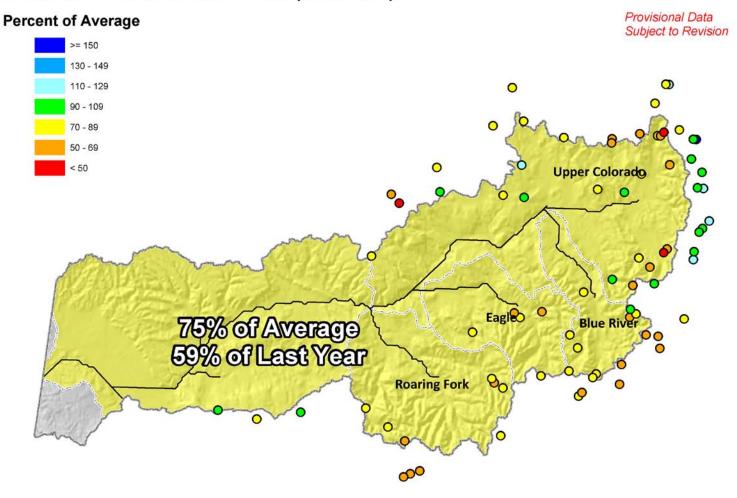


Colorado River Basin Summary

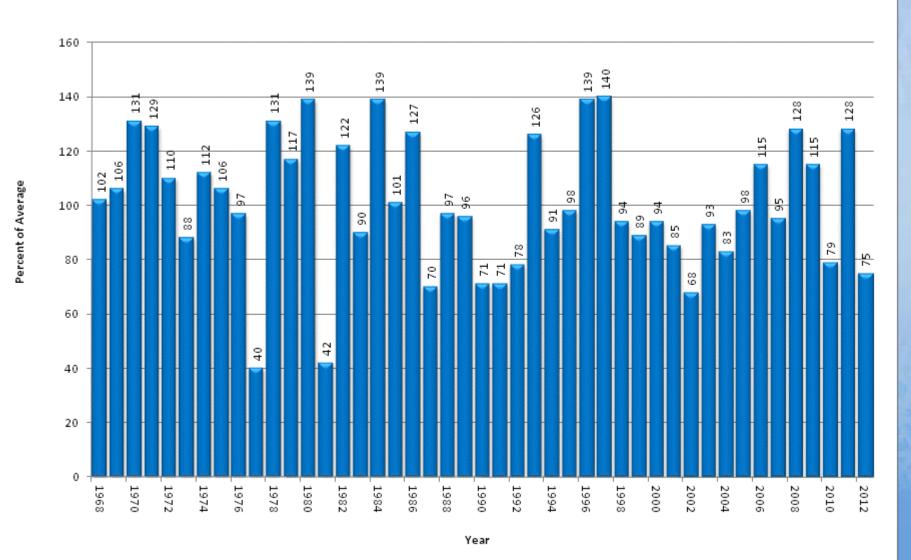


Colorado River Basin Snowpack Map

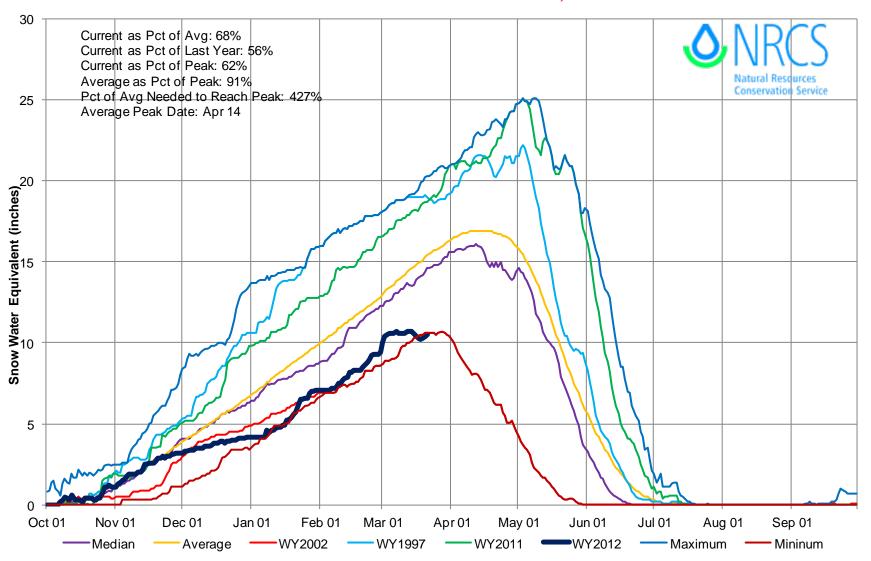
Current as of March 1, 2012



March 1 Total Colorado River Basin Snowpack

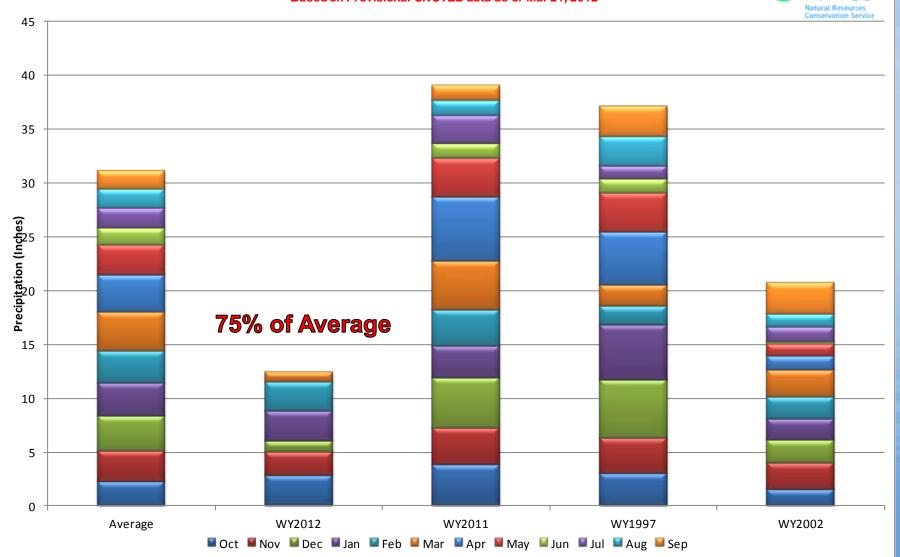


Upper Colorado River Basin High/Low Snowpack Summary

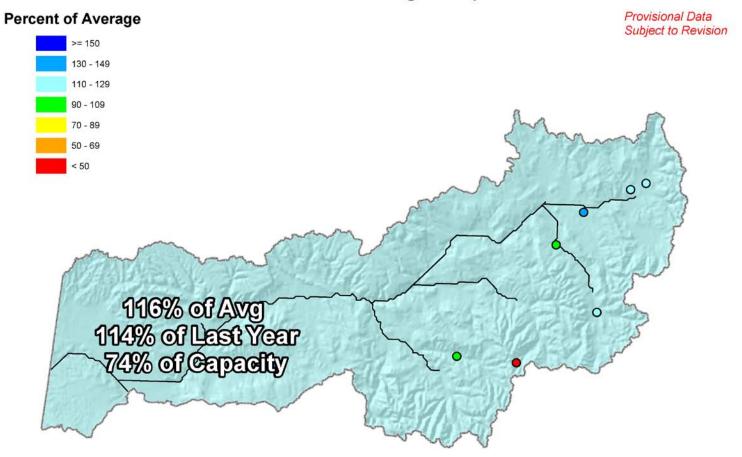


Upper Colorado River Basin High/Low Monthly Precipitation Summary



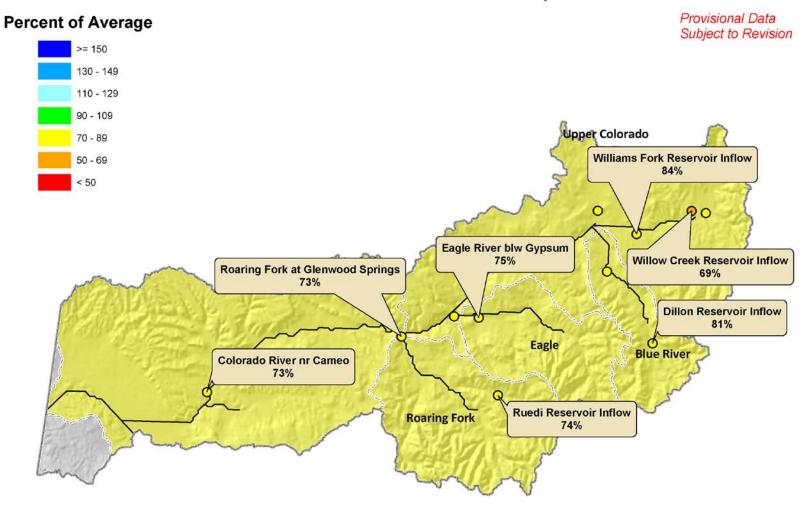


Colorado River Basin Reservoir Storage Map



End of February 2012

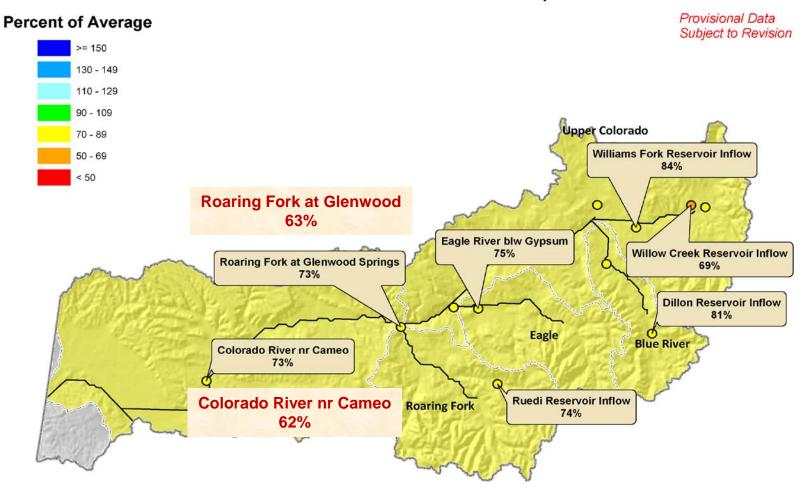
Colorado River Basin Streamflow Forecast Map



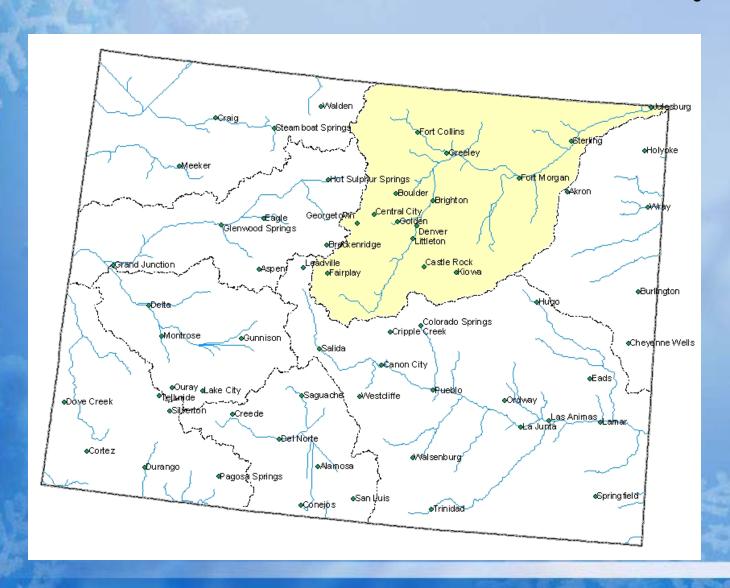
Current as of March 1, 2012

Forecasts Updated March 19, 2012

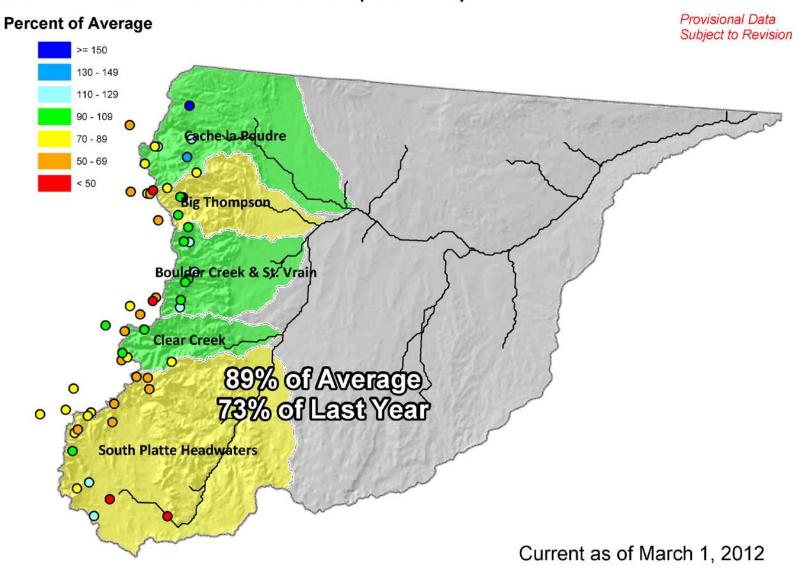




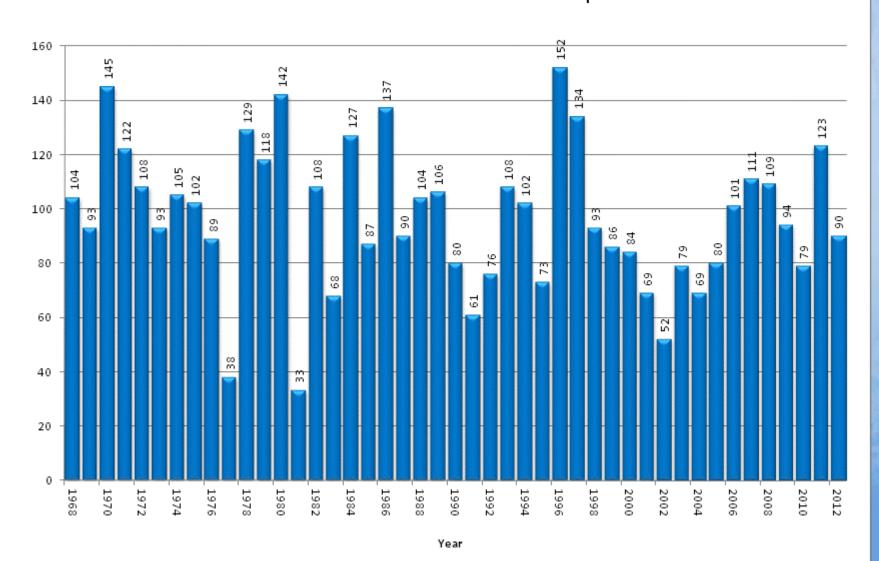
South Platte River Basin Summary



South Platte River Basin Snowpack Map

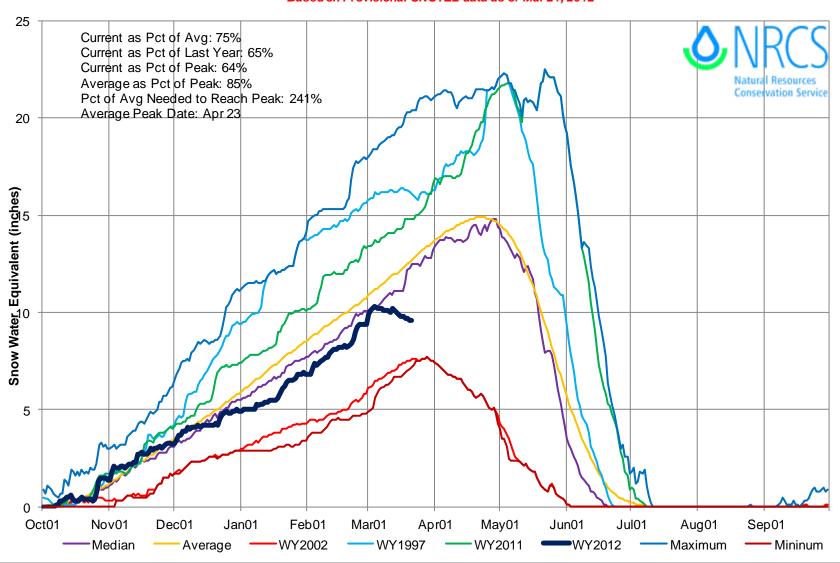


March 1 Total South Platte River Basin Snowpack



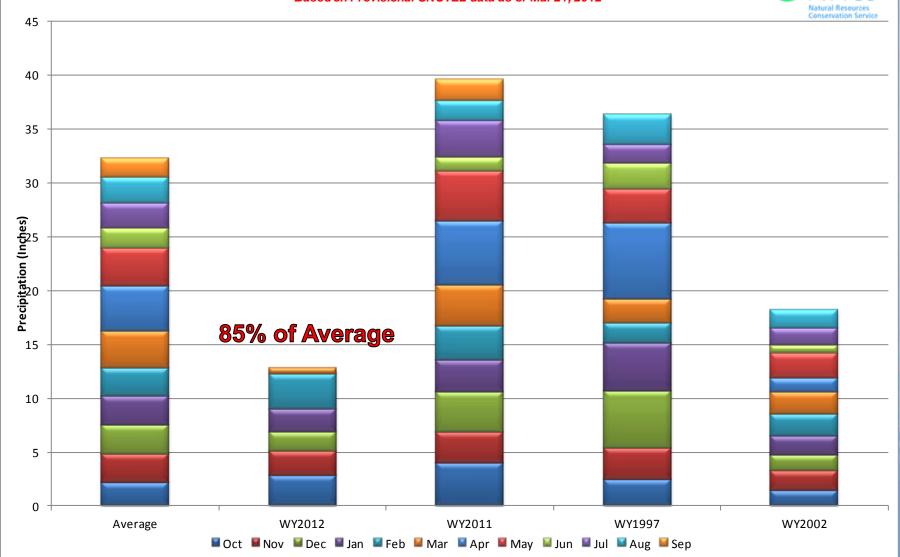
Percent of Average

South Platte River Basin High/Low Snowpack Summary

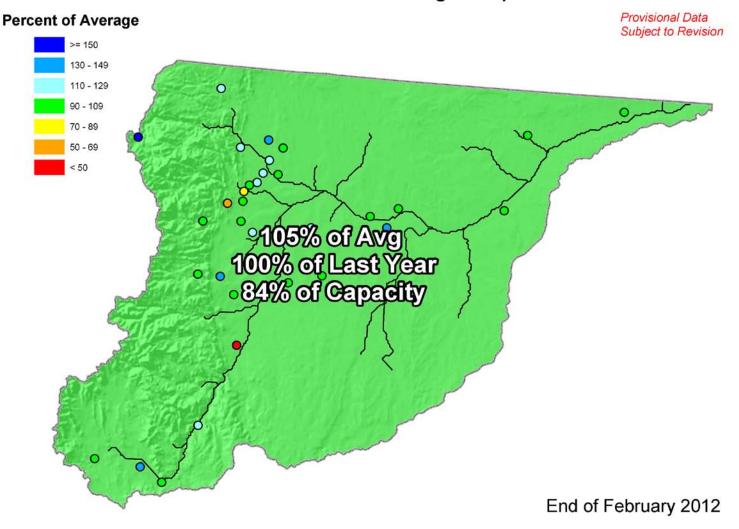


South Platte River Basin High/Low Monthly Precipitation Summary



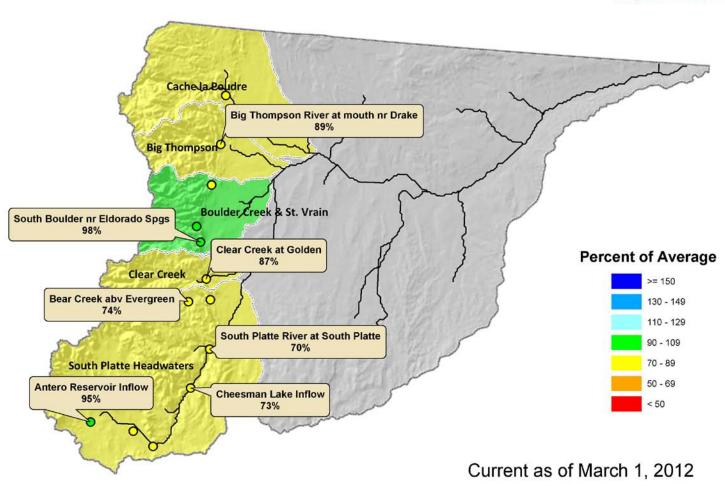


South Platte River Basin Reservoir Storage Map

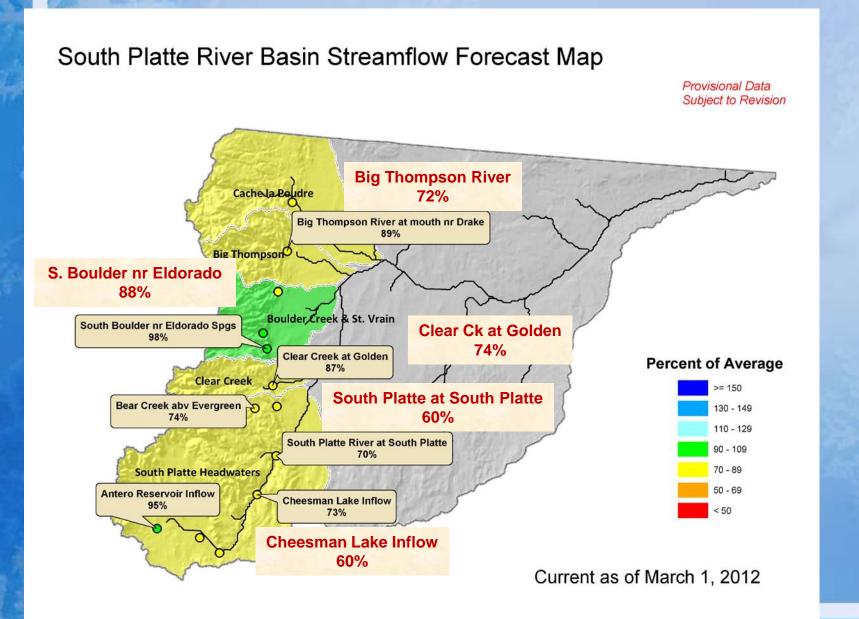


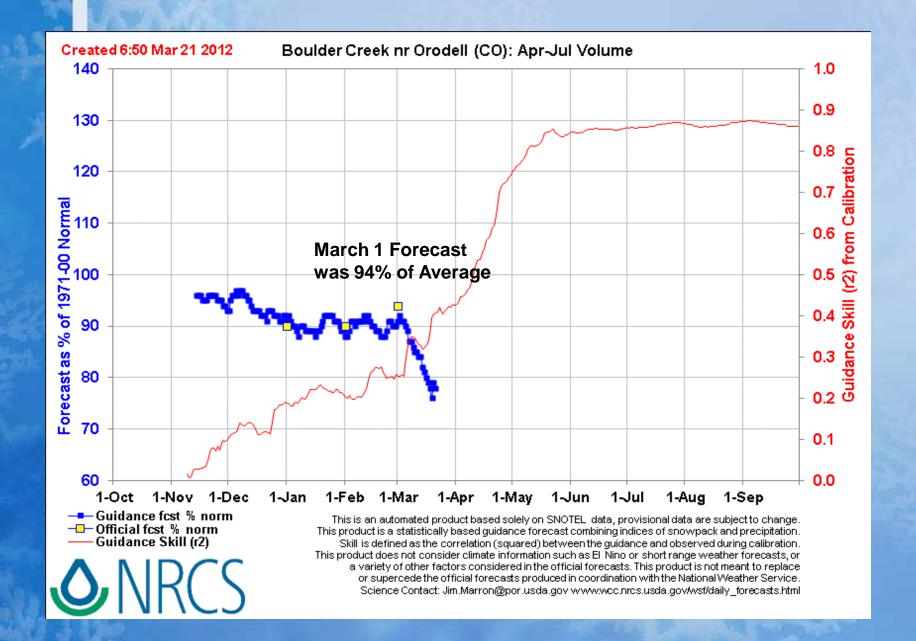
South Platte River Basin Streamflow Forecast Map





Forecasts Updated March 21, 2012

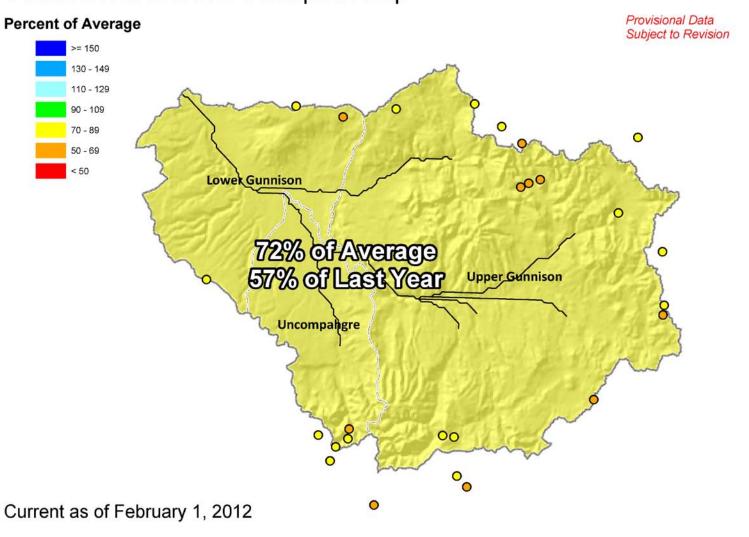




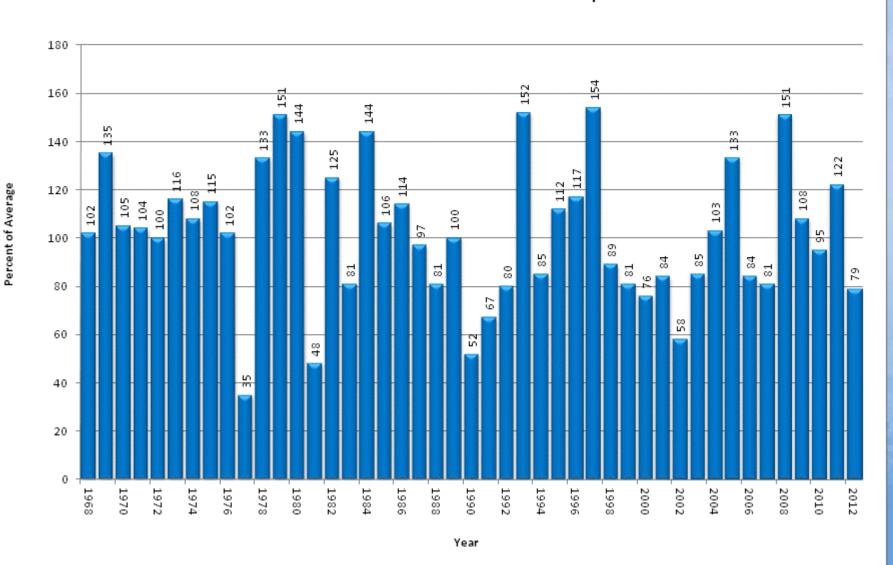
Gunnison River Basin Summary



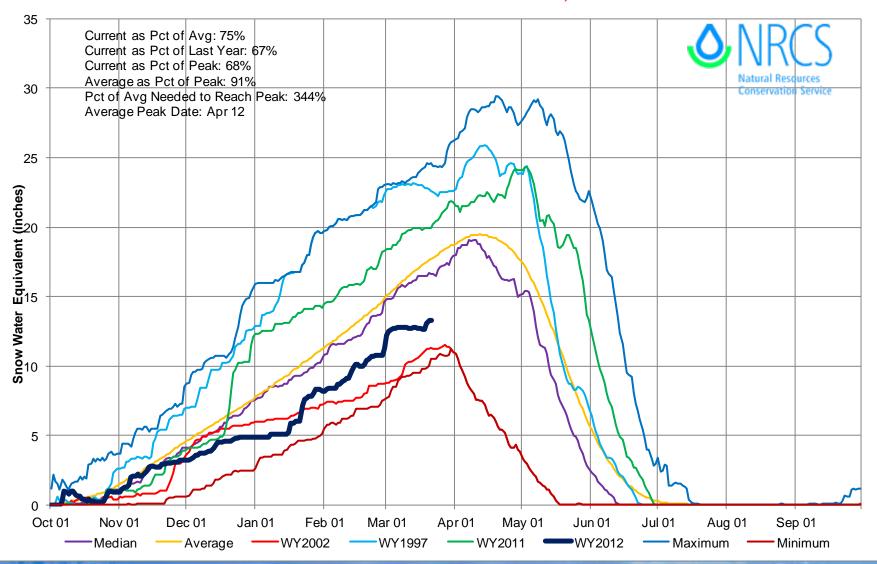
Gunnison River Basin Snowpack Map



March 1 Total Gunnison River Basin Snowpack

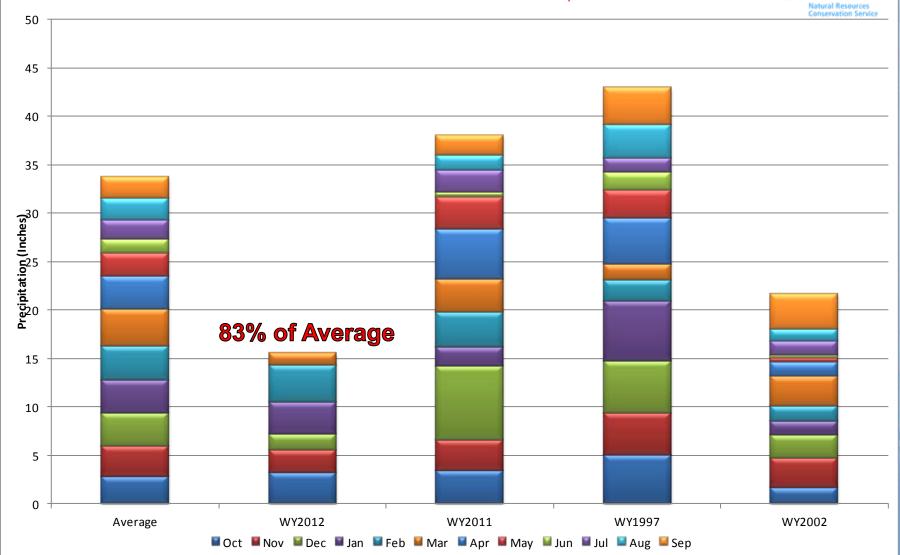


Gunnison River Basin High/Low Snowpack Summary



Gunnison River Basin High/Low Monthly Precipitation Summary





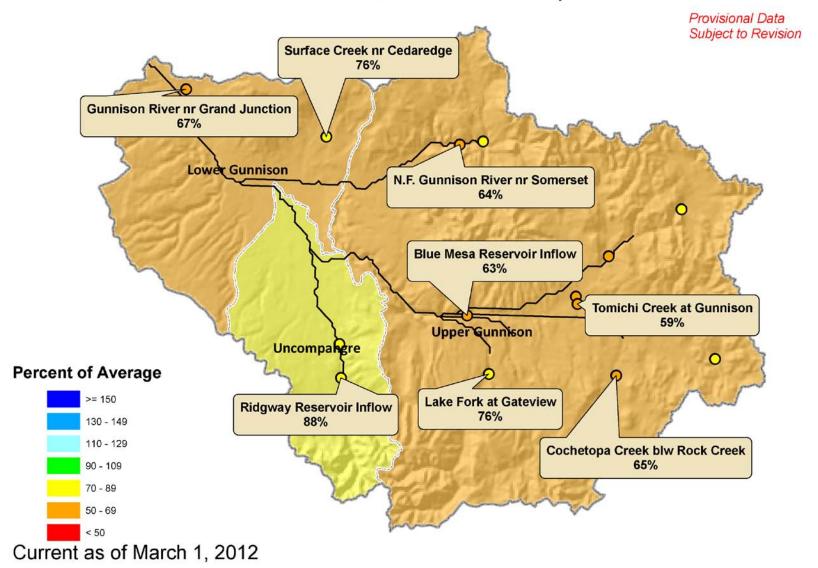
Gunnison River Basin Reservoir Storage Map

Provisional Data Subject to Revision



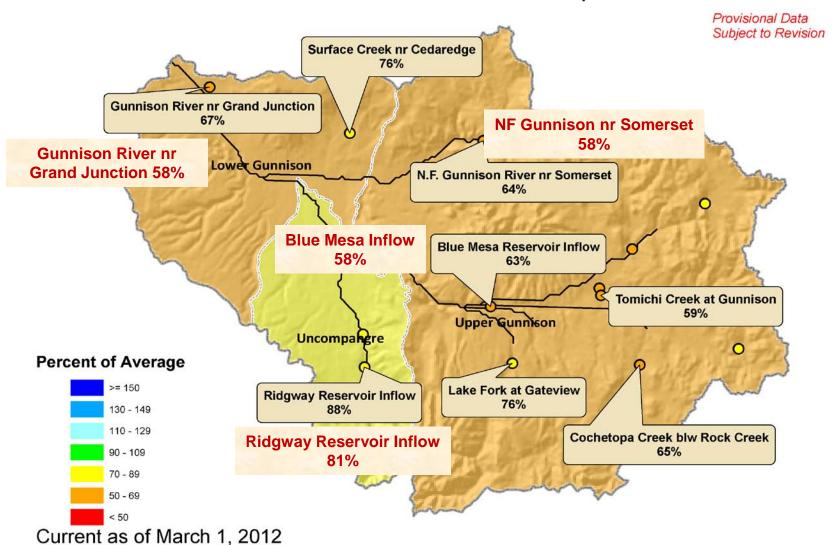
End of February 2012

Gunnison River Basin Streamflow Forecast Map

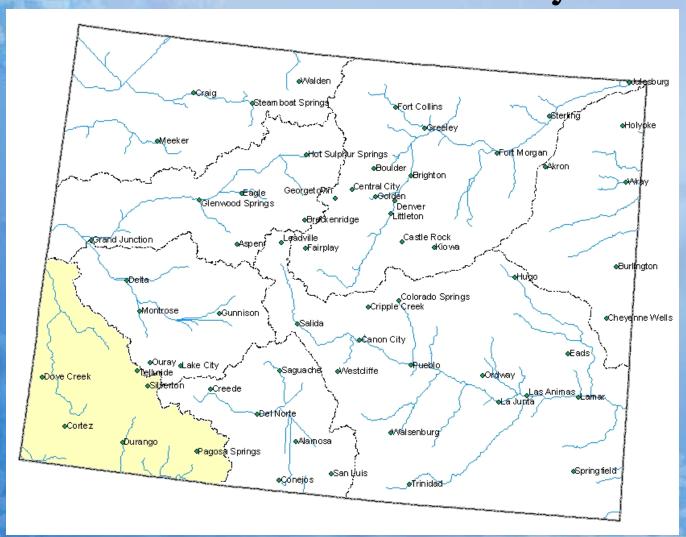


Forecasts Updated March 19, 2012

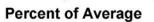
Gunnison River Basin Streamflow Forecast Map



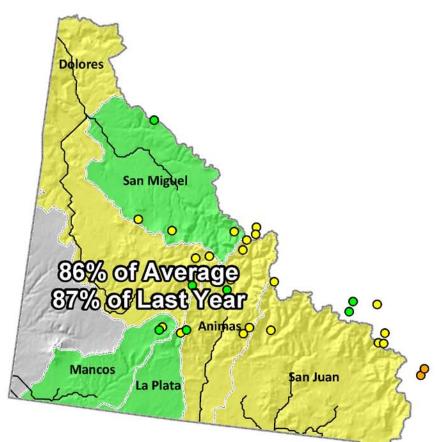
San Miguel, Dolores, Animas & San Juan River Basins Summary



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

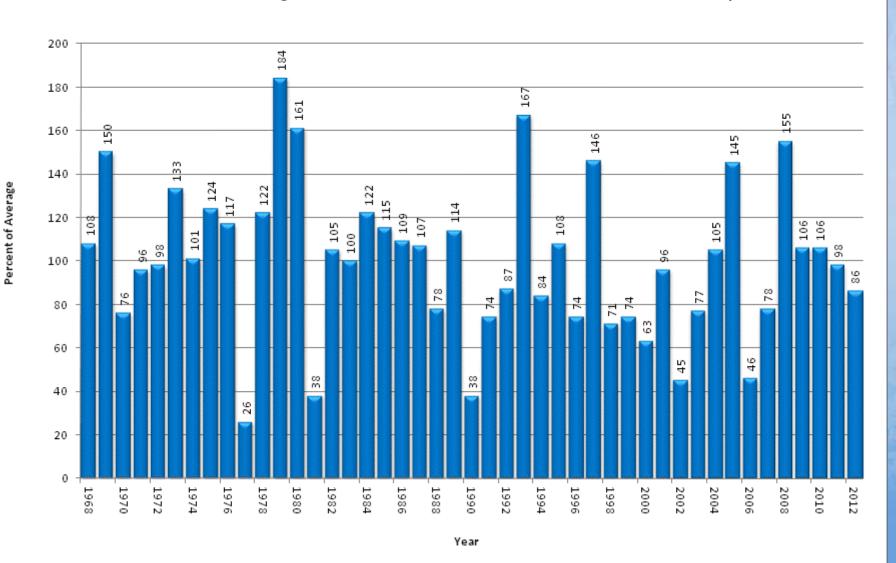






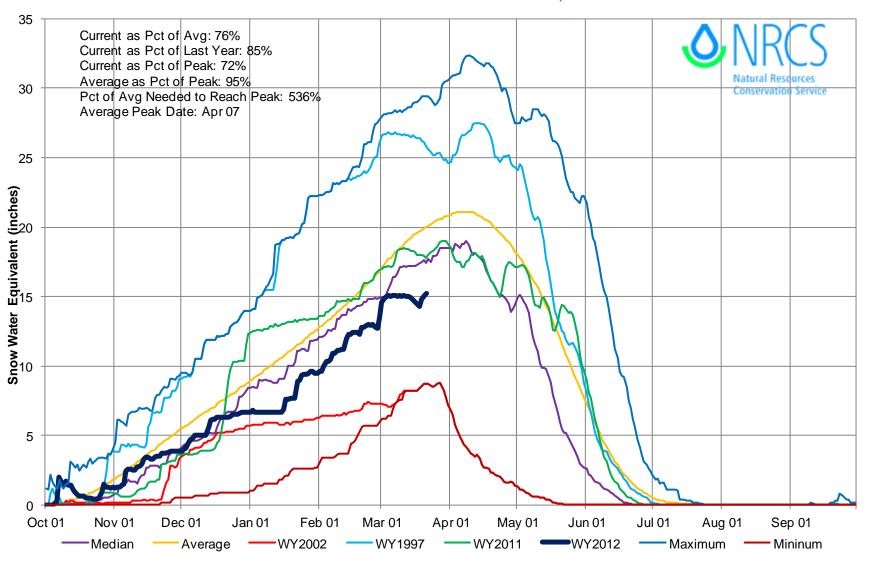
Provisional Data Subject to Revision

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

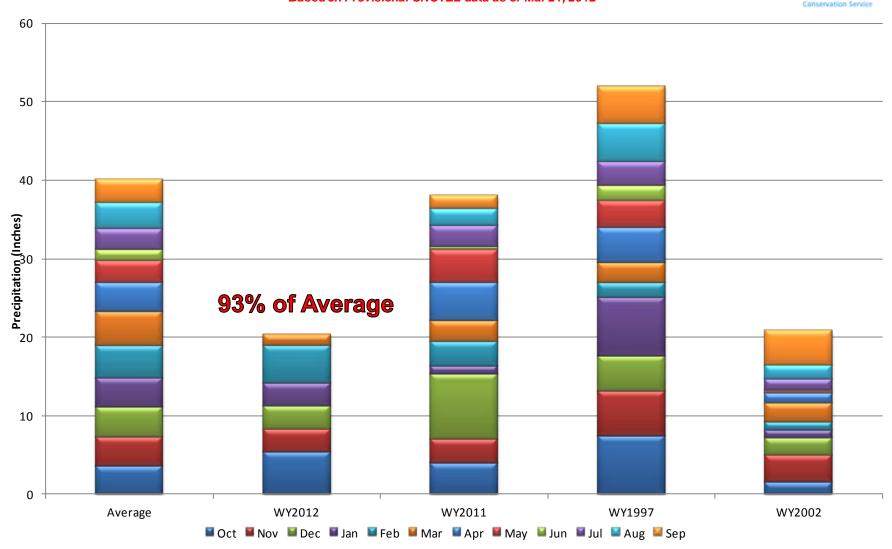


San Miguel, Dolores, Animas & San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 21, 2012

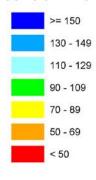


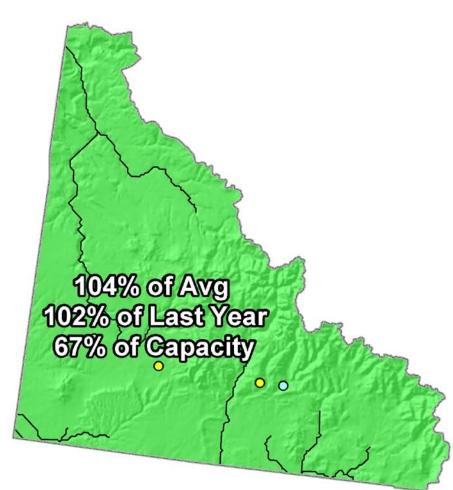
San Miguel, Dolores, Animas & San Juan River Basins High/Low Monthly Precipitation Summary Based on Provisional SNOTEL data as of Mar 21, 2012



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



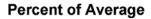




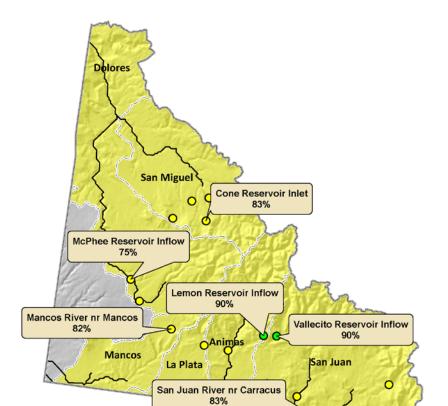
Provisional Data Subject to Revision

End of February 2012

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



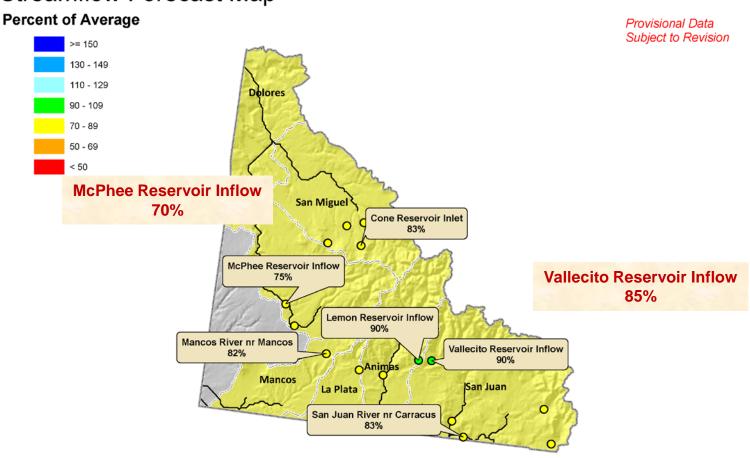




Provisional Data Subject to Revision

Forecasts Updated March 19, 2012

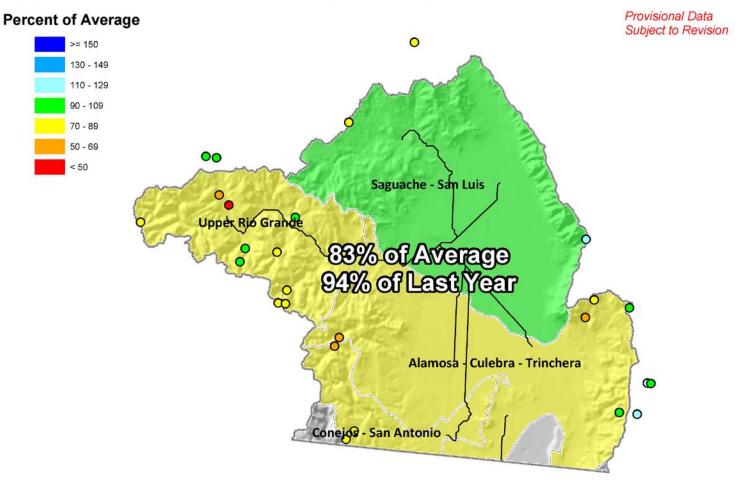
San Miguel, Dolores, Animas and San Juan River Basins Streamflow Forecast Map



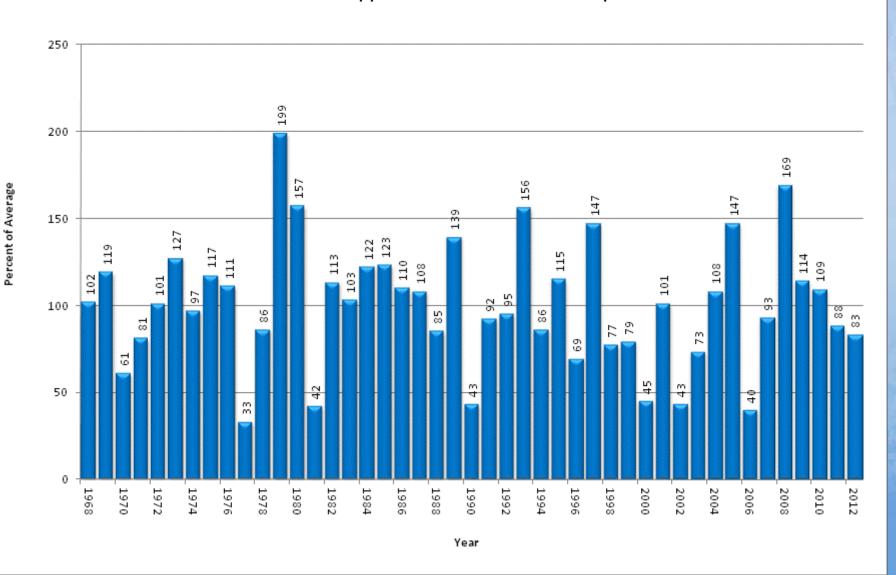
Upper Rio Grande Basin Summary



Upper Rio Grande Basin Snowpack Map

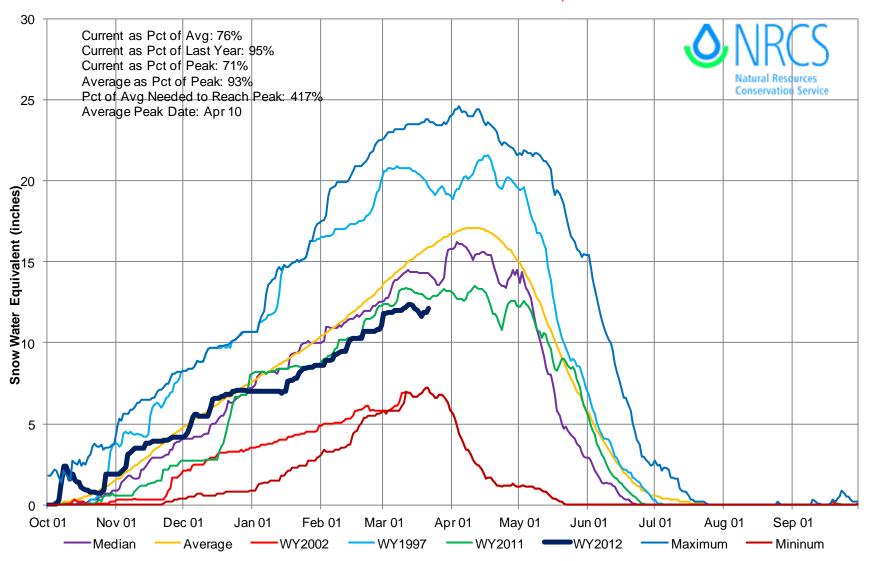


March 1 Total Upper Rio Grande Basin Snowpack



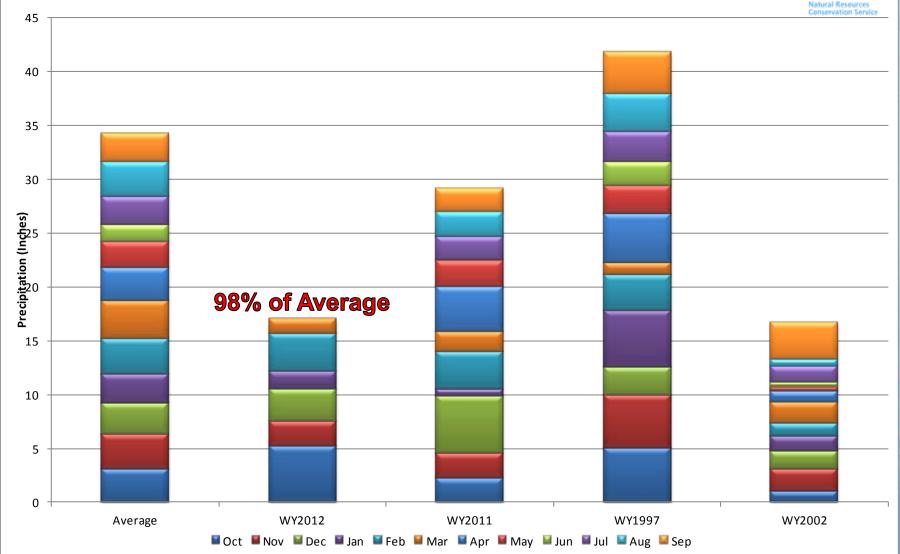
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 21, 2012

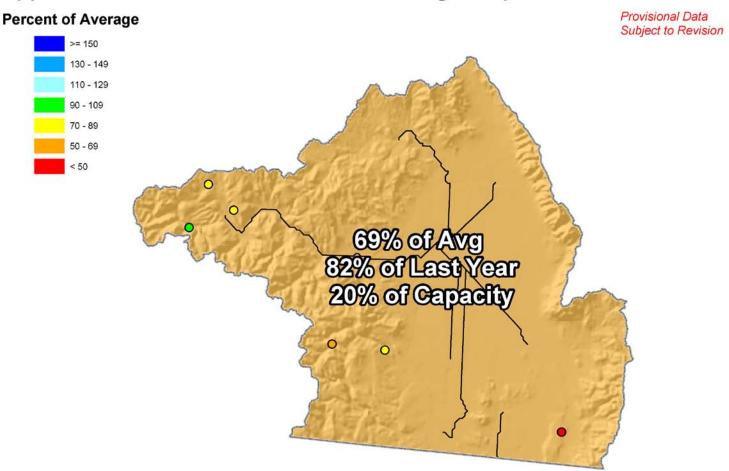


Upper Rio Grande Basin High/Low Monthly Precipitation Summary Based on Provisional SNOTEL data as of Mar 21, 2012



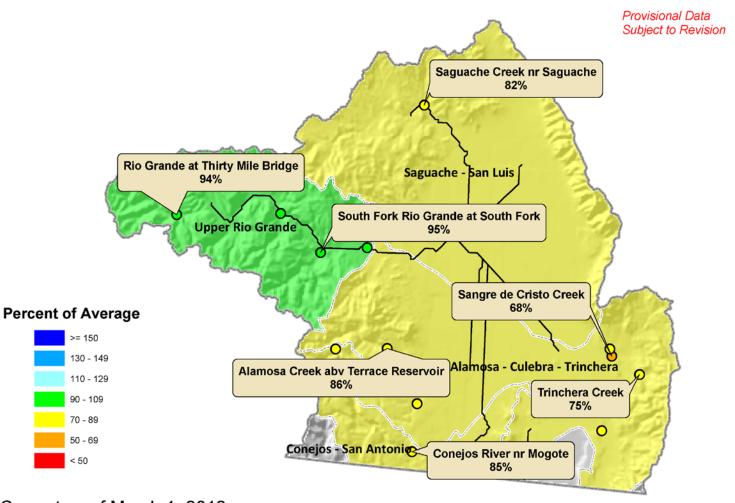


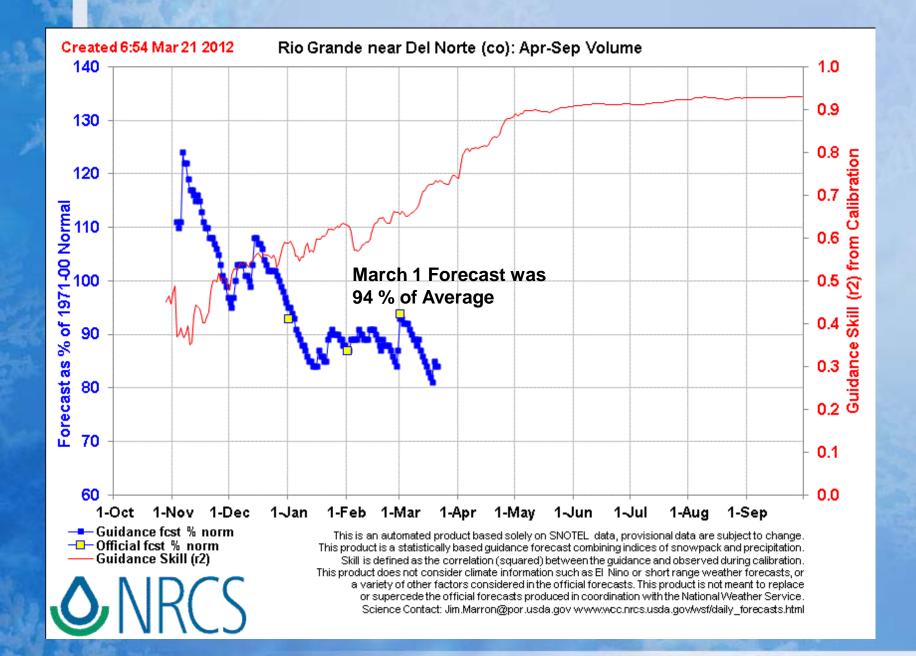
Upper Rio Grande Basin Reservoir Storage Map



End of February 2012

Upper Rio Grande Basin Streamflow Forecast Map

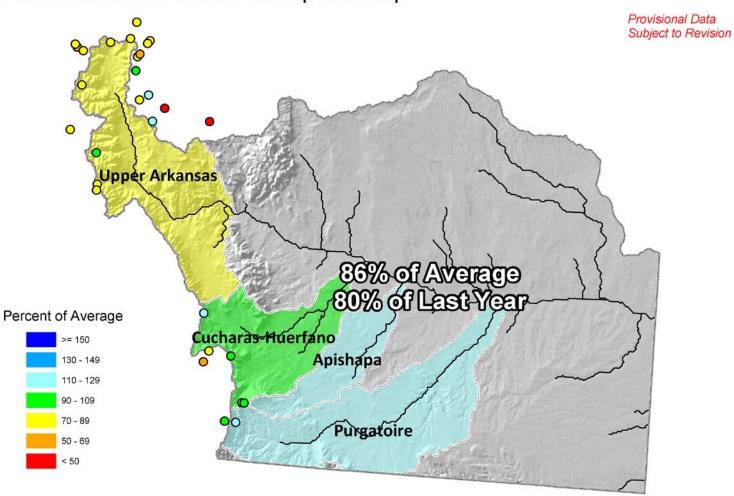




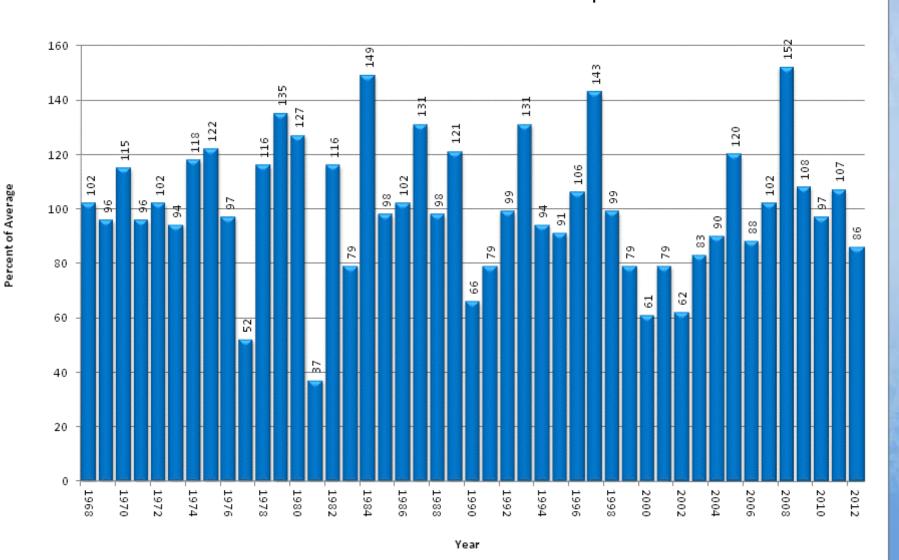
Arkansas River Basin Summary



Arkansas River Basin Snowpack Map

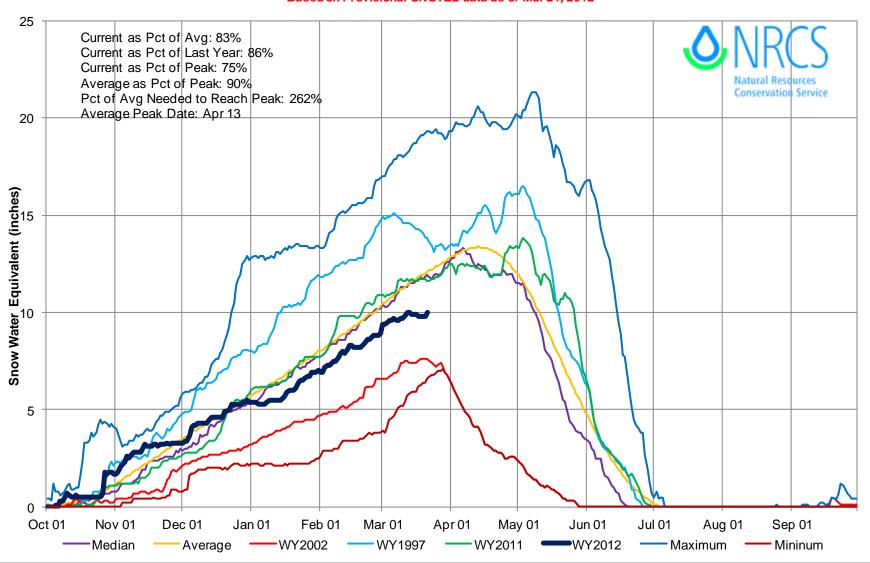


March 1 Total Arkansas River Basin Snowpack



Arkansas River Basin High/Low Snowpack Summary

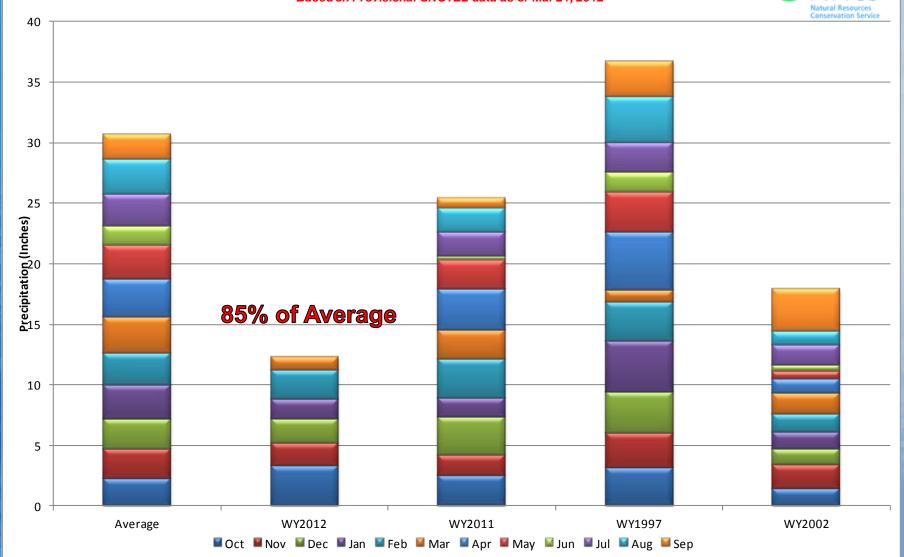
Based on Provisional SNOTEL data as of Mar 21, 2012



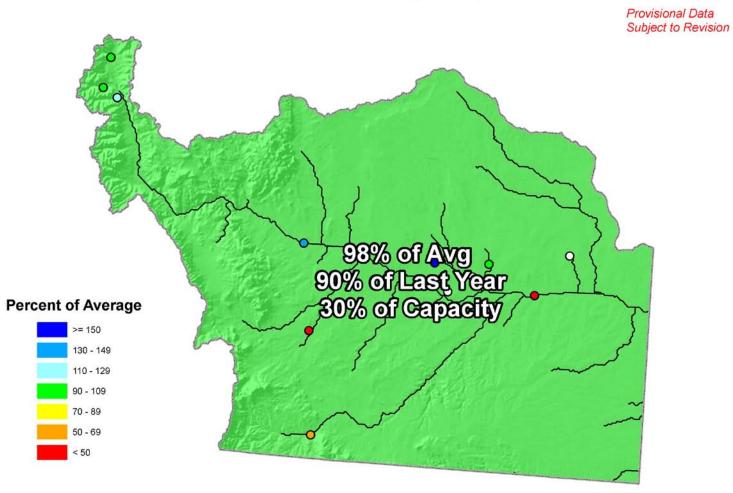
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 21, 2012



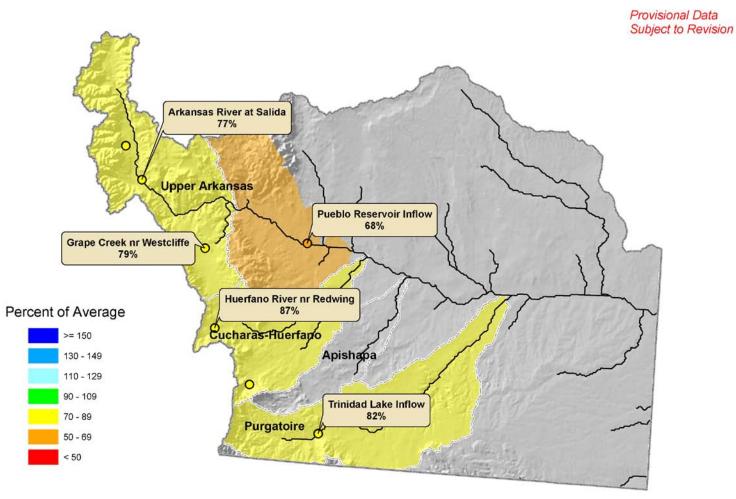


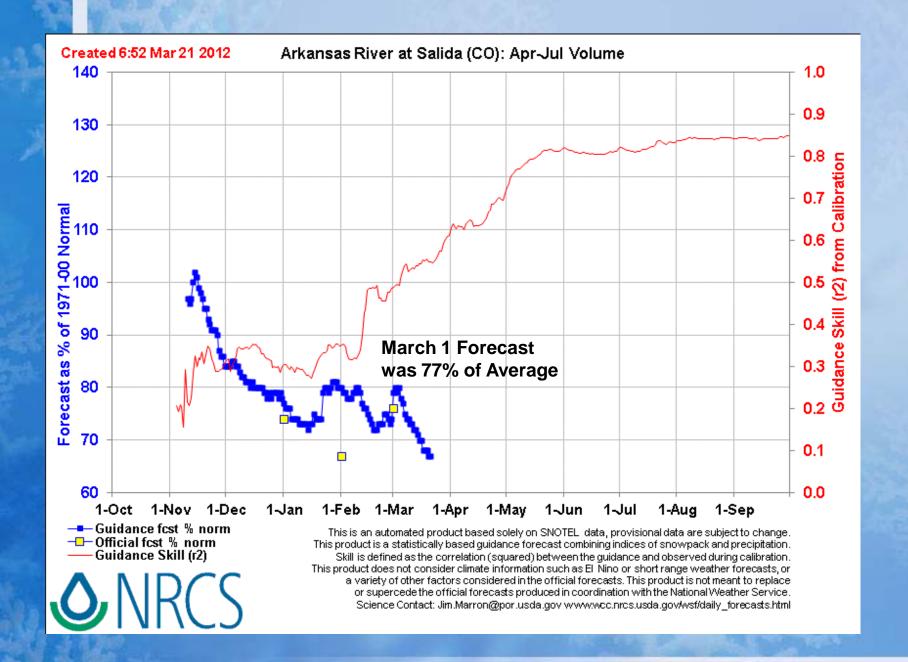
Arkansas River Basin Reservoir Storage Map



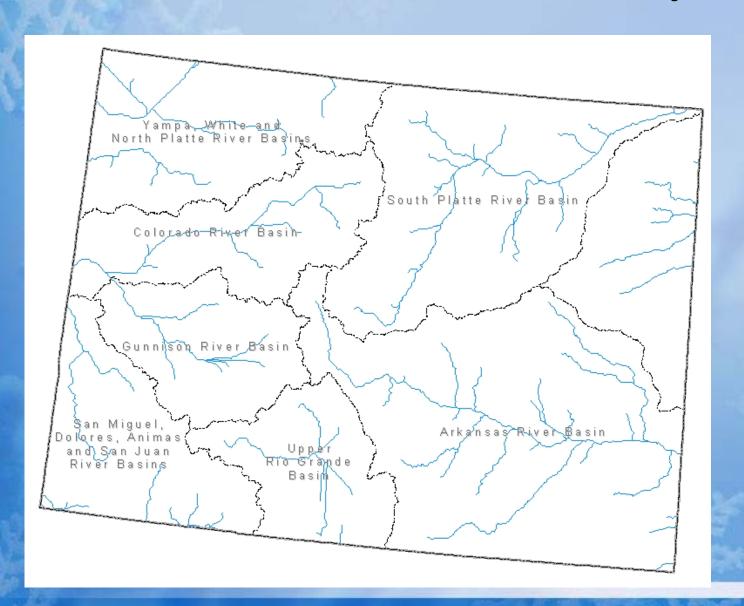
End of February 2012

Arkansas River Basin Streamflow Forecast Map



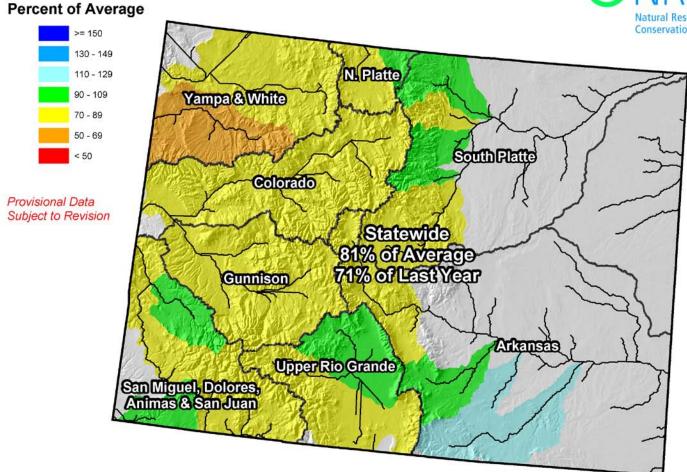


Colorado Statewide Summary



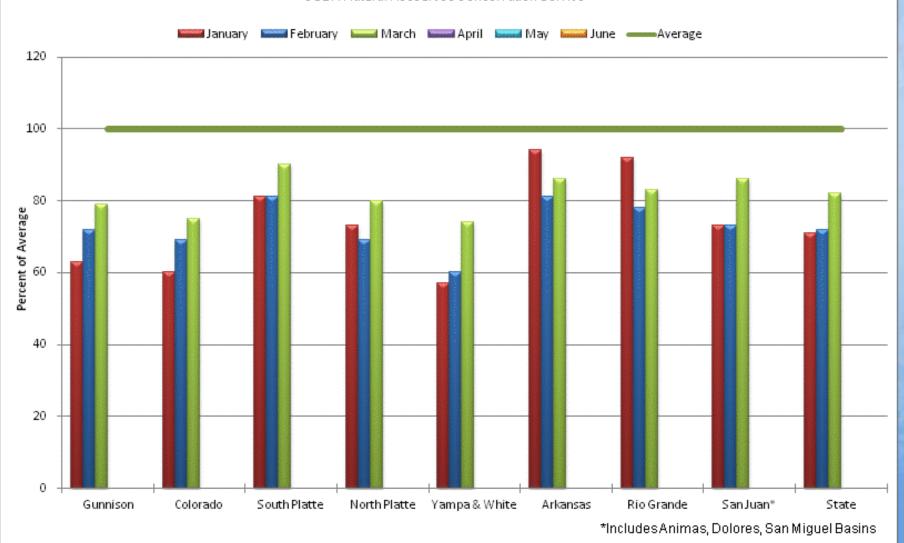
Colorado Snowpack Map



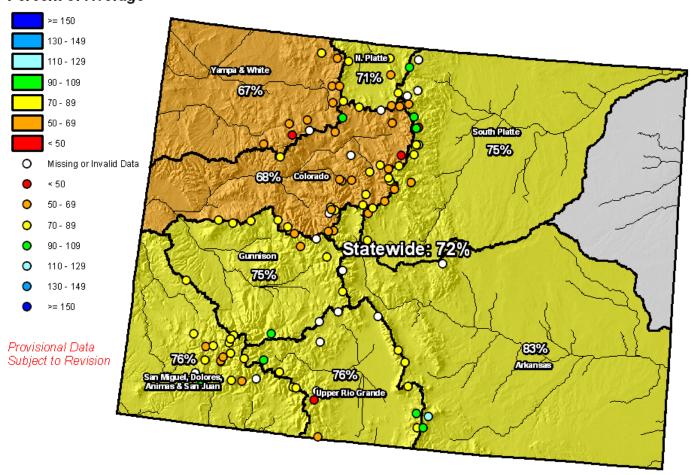


Colorado Snowpack Summary for 2012

USDA Natural Resources Conservation Service



Colorado SNOTEL Snowpack Update Map with Site Data Percent of Average

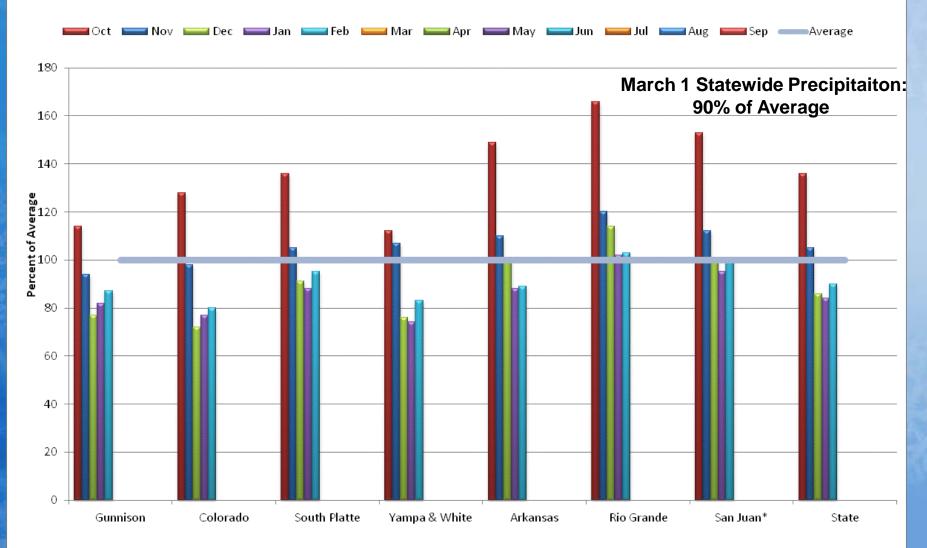


Current as of Mar 21, 2012

*Data may not provide a valid measure of conditions

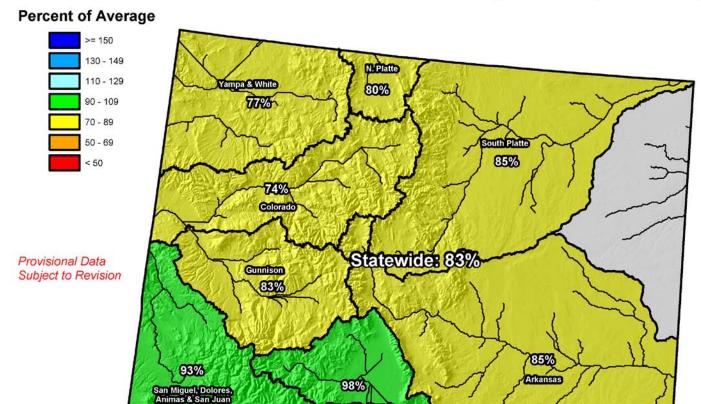


USDA Natural Resources Conservation Service



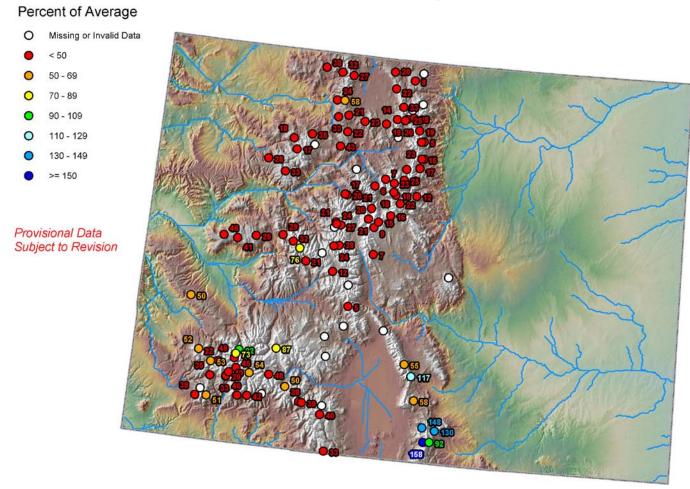
*Includes Animas, Dolores, San Miguel Basins

Colorado SNOTEL Water Year-to-Date Precipitation Update Map



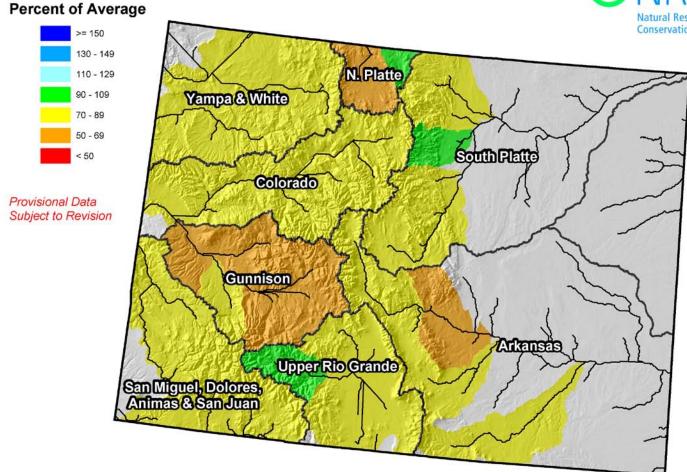
Upper Rio Grande

Colorado SNOTEL Month-to-Date Precipitation

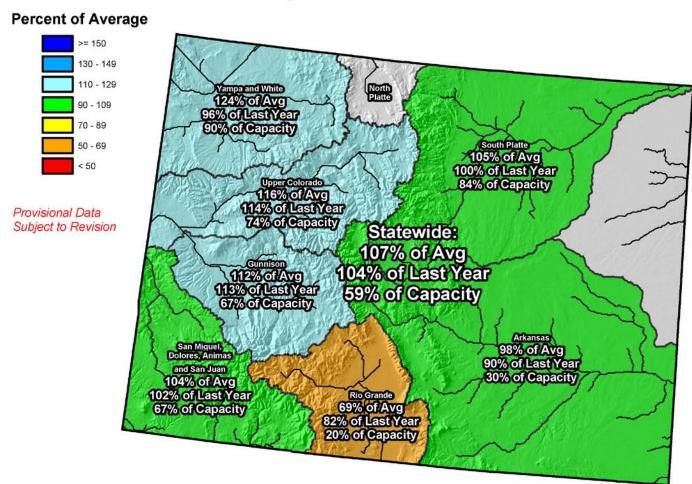


Colorado Streamflow Forecast Map

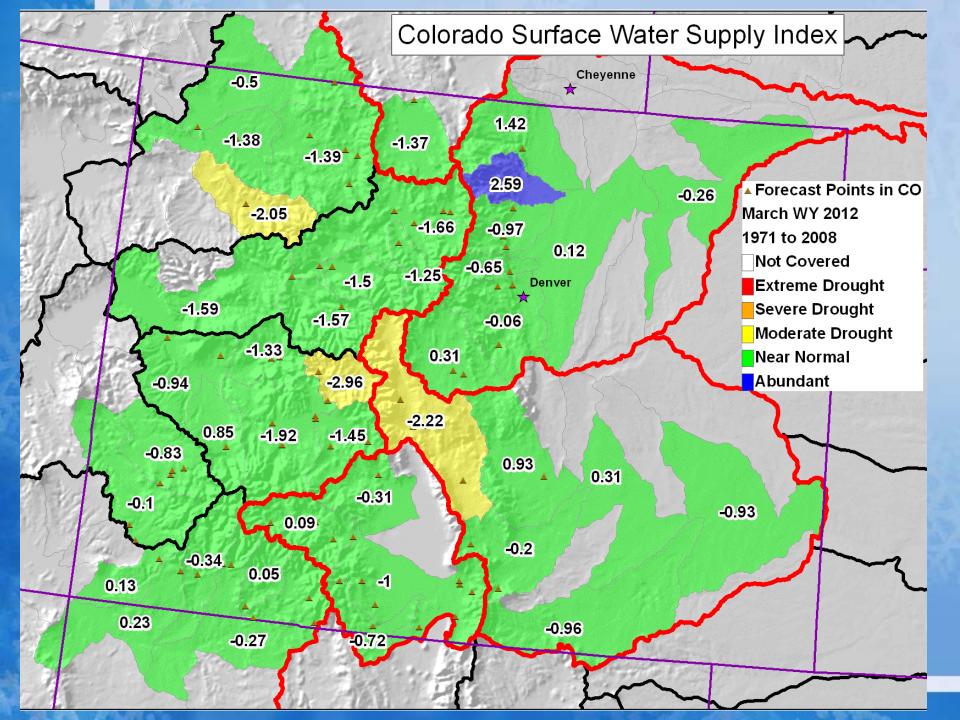




Colorado Reservoir Storage Map



End of February 2012



The 2012 Water Year

- October Well above average precipitation in all basins. Upper Rio Grande, Arkansas and South Platte basins had above average SWE also. All other basins had below average SWE.
- November Cumulative precipitation was near or above average in all basins. November was drier than average across the state, except for in the Yampa/White. Statewide, SWE was tracking along at average until the last week in Nov when things dried up and ended Nov below average.
- December DRY across the state. The only basin to see average precip during Dec was Upper Rio Grande. The Yampa/White recorded just 29% of average precip. SWE as of Jan 1 was below average in all basins. The Arkansas & Upper Rio basins were near average (~90%). Yampa/White was at just 57%.
- January Dry until ~16th across the state. The Gunnison and Colorado basins saw well above average snowfall the last half of Jan. All other basins returned to typical accumulation. Feb 1 measured SWE was still below average in all basins. Southern basins had dropped 13 -15 percentage point since Jan 1. Precip in Gunnison and Colorado basins was near average in Jan all other basins were below average.
- February Had near or above average snowfall and precipitation across the state. The Colorado and Upper Rio Grande basins reported snowfall totals at 97% of average. Boosted snowpack totals in all basins, greatest increases in the Yampa and San Juan basins. Statewide the snowpack increased by 9 percentage points.
- March DRY so far this month! Well below average snowfall totals statewide, most basins snowpack percentages dropped to near or below their Febuary first numbers. The South Platte faired the worse, dropping 14 percentage points, a result of warm temperatures melting much of the snow in the basin.