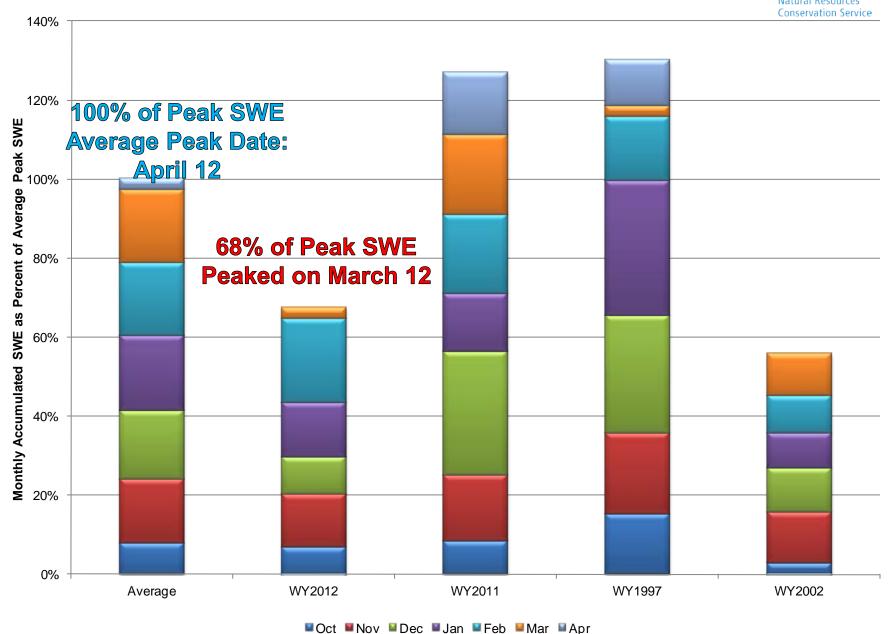
NRCS – Snow Survey & Water Supply Forecasting

Mage Hultstrand

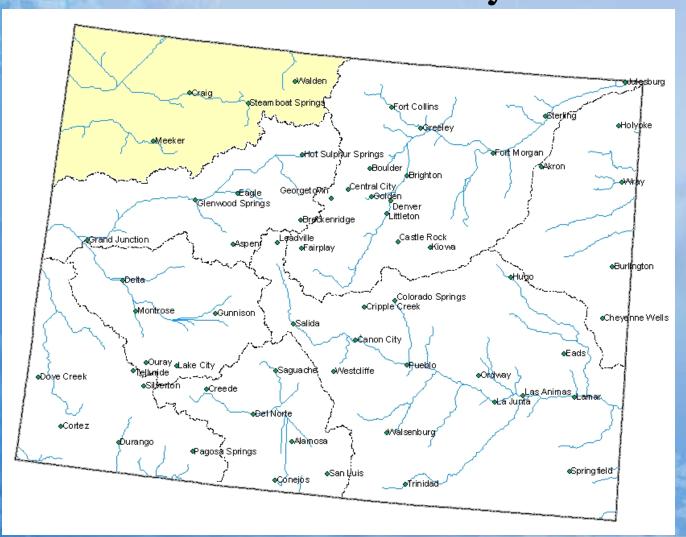
Water Availability Task Force Meeting April 18, 2012

Colorado Statewide High/Low Monthly Snowpack Summary



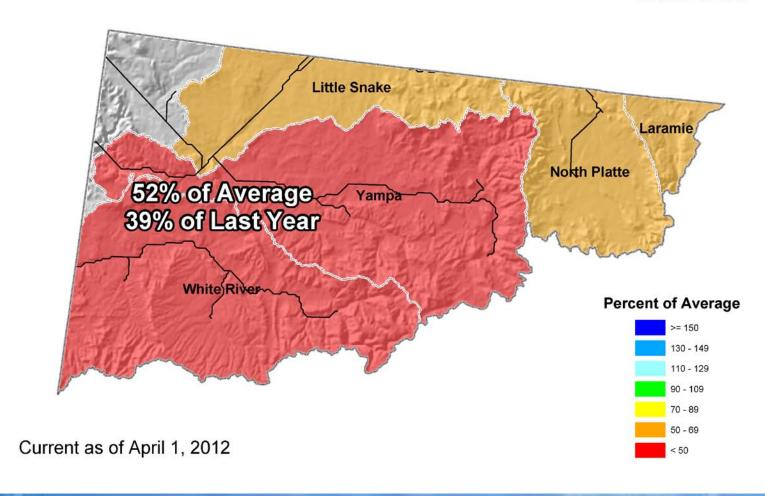


Yampa, White & North Platte River Basins Summary

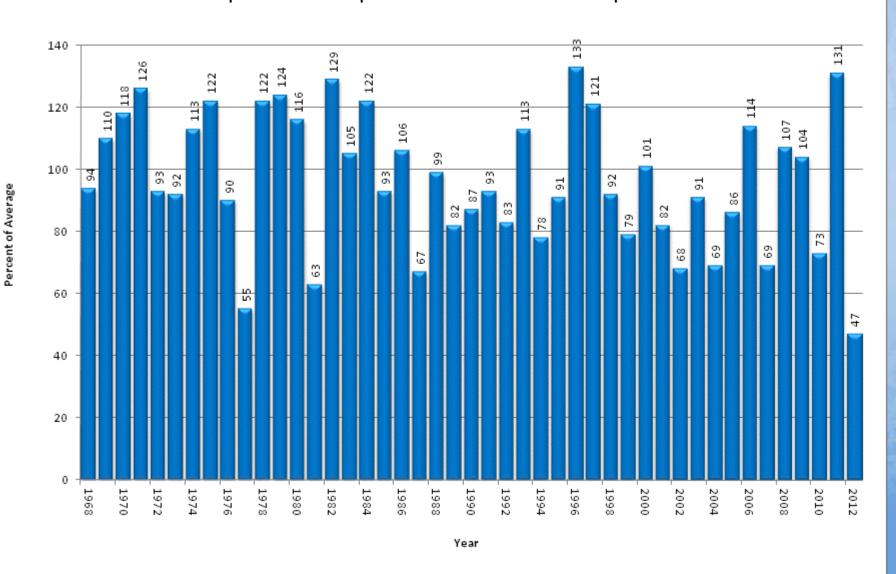


Yampa, White and North Platte River Basins Snowpack Map

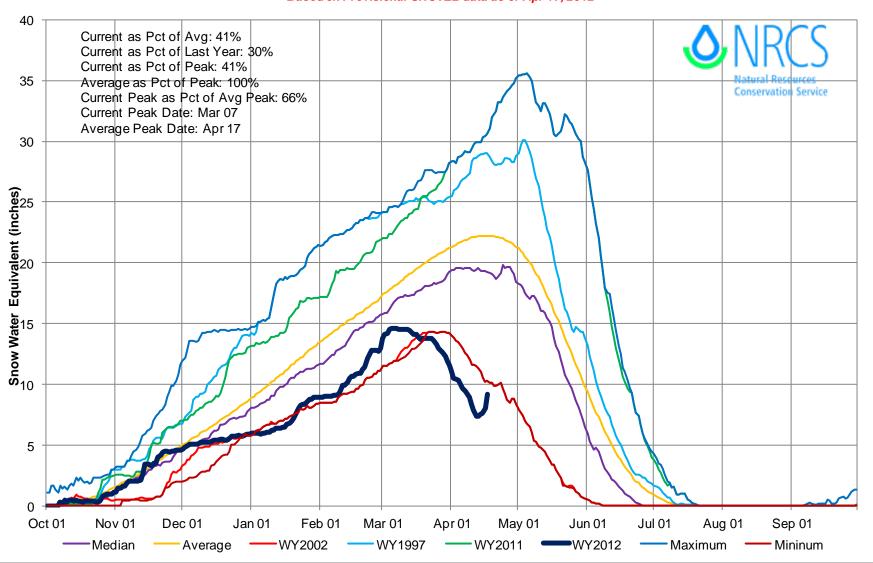
Provisional Data Subject to Revision



April 1 Total Yampa & White River Basins Snowpack

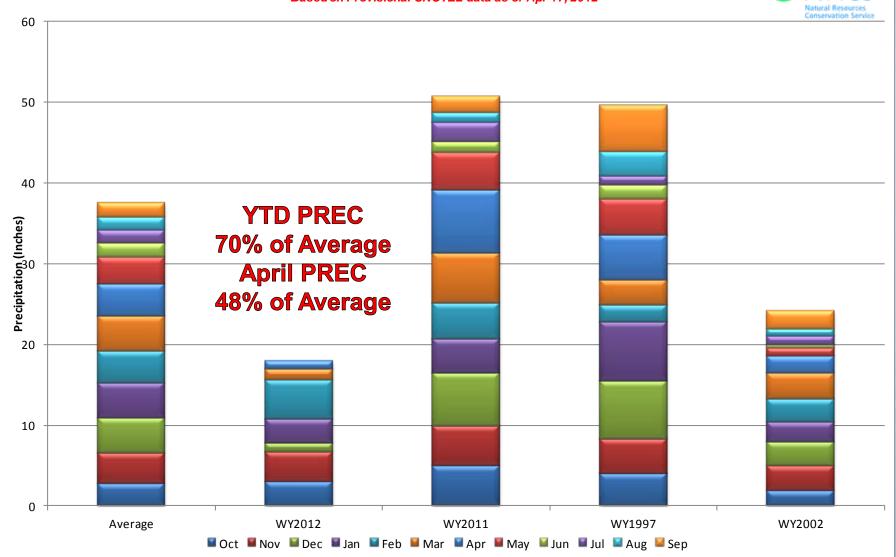


Yampa, White and North Platte River Basins High/Low Snowpack Summary



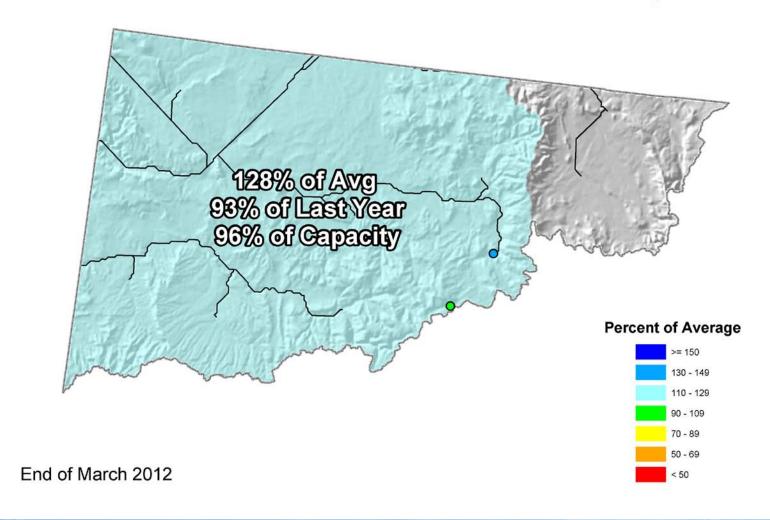
Yampa and White River Basins High/Low Monthly Precipitation Summary





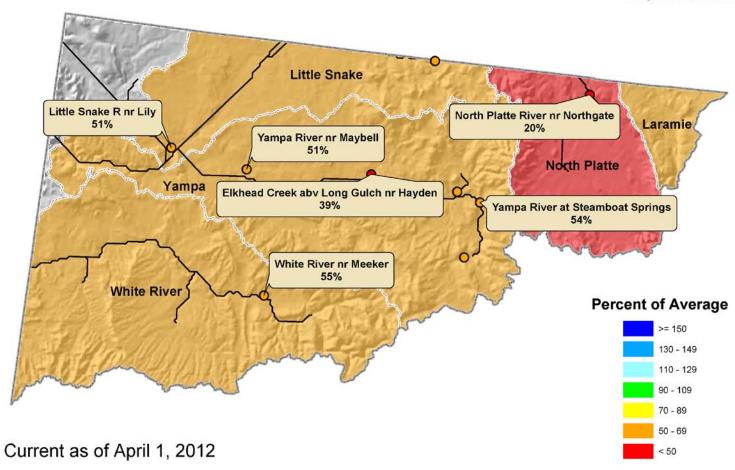
Yampa & White River Basins Reservoir Storage Map

Provisional Data Subject to Revision

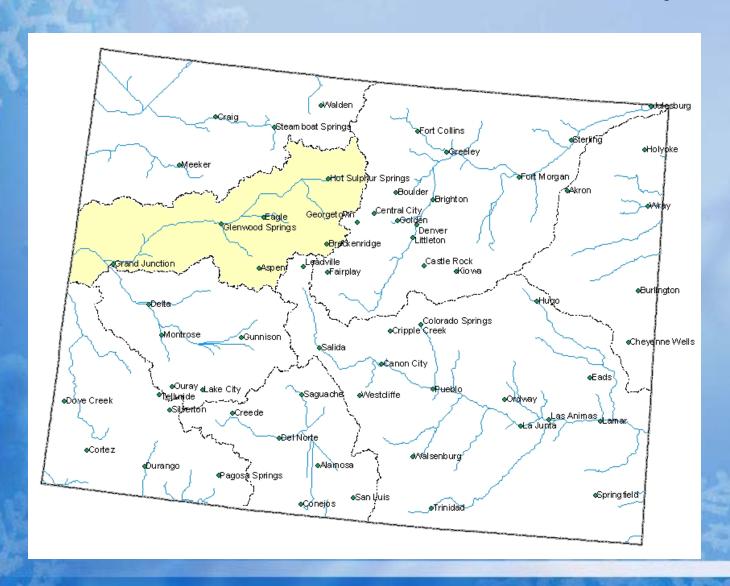


Yampa, White and North Platte River Basins Streamflow Map

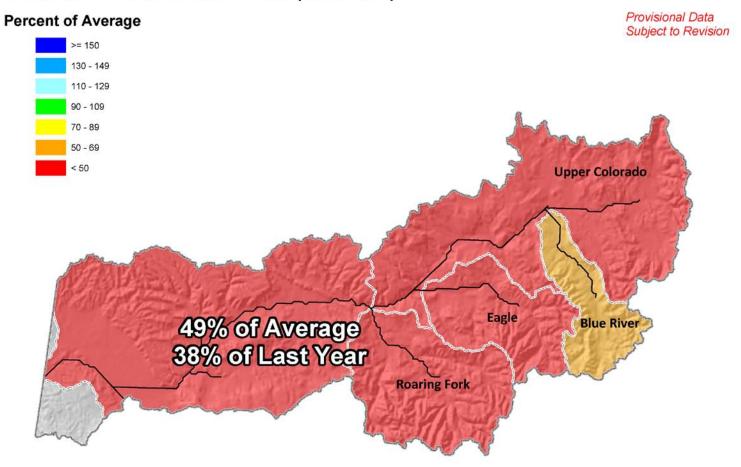




Colorado River Basin Summary

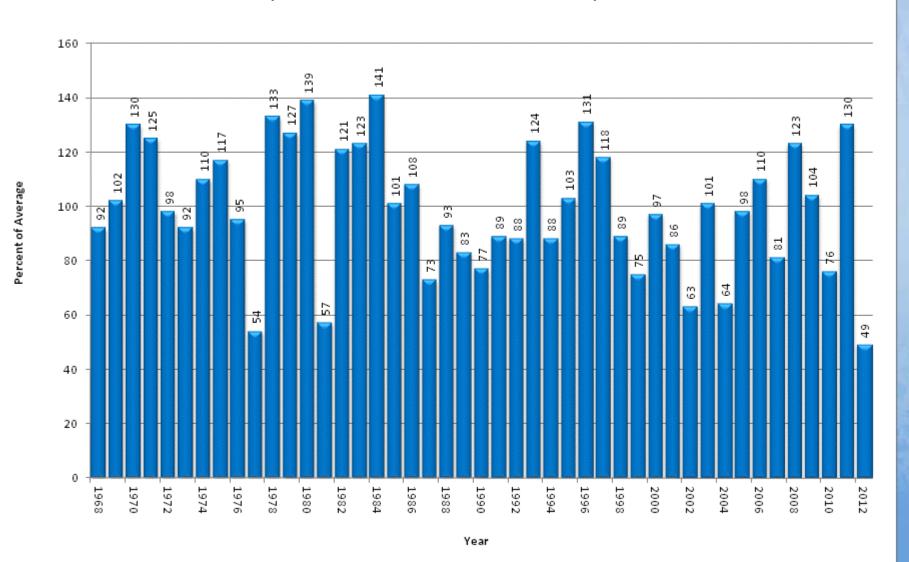


Colorado River Basin Snowpack Map

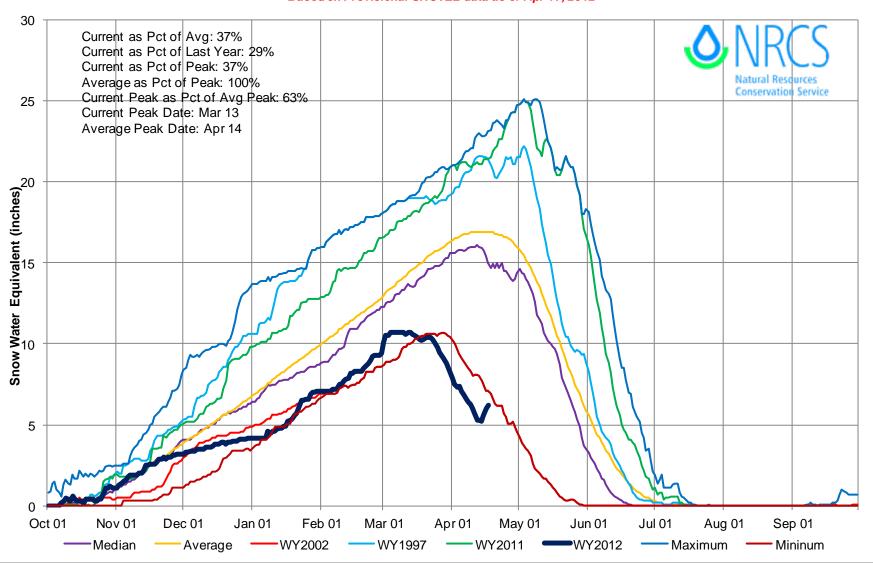


Current as of April 1, 2012

April 1 Total Colorado River Basin Snowpack

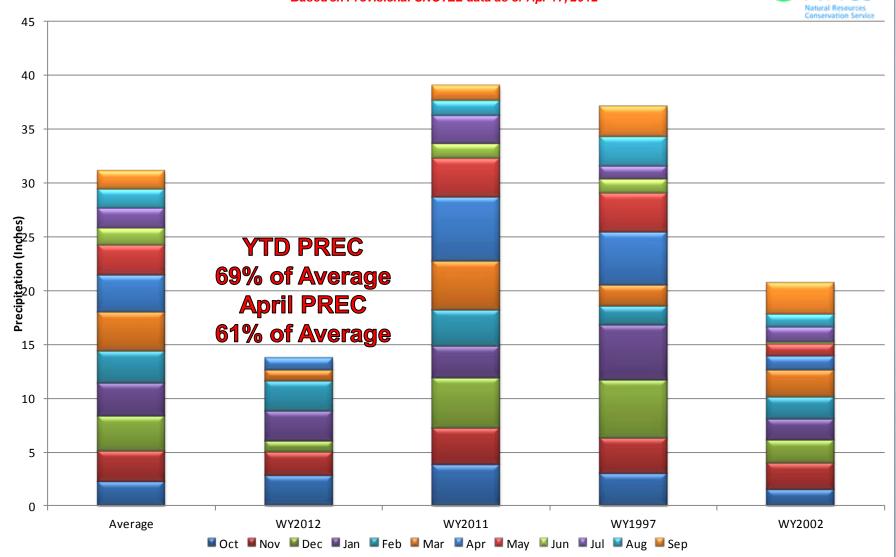


Upper Colorado River Basin High/Low Snowpack Summary

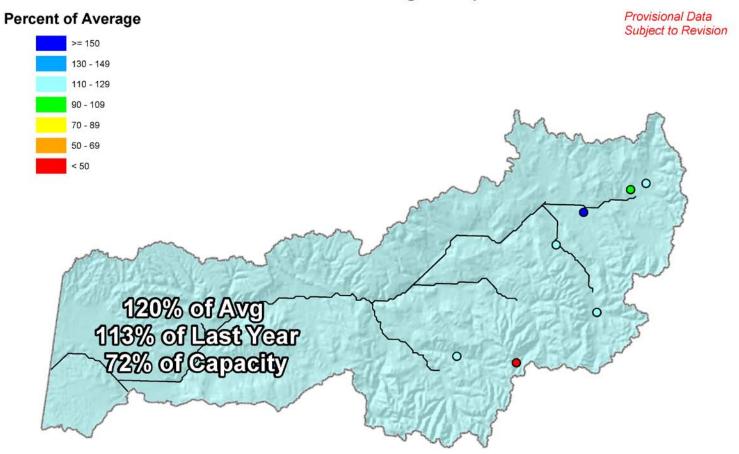


Upper Colorado River Basin High/Low Monthly Precipitation Summary



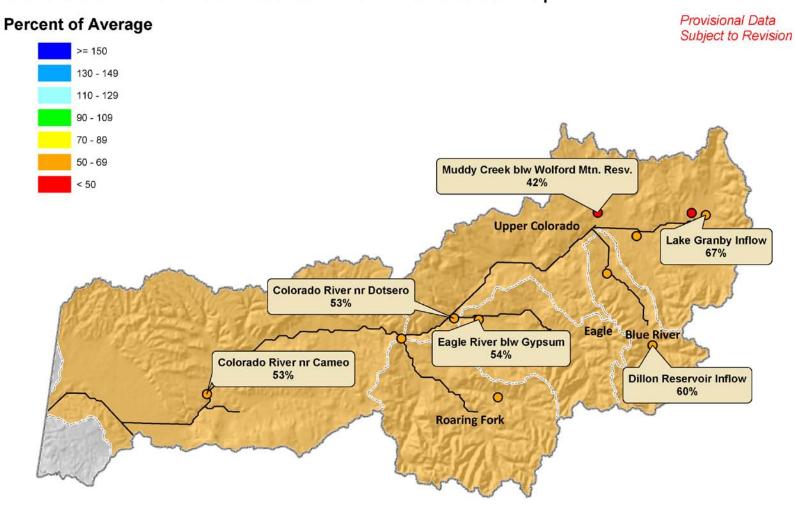


Colorado River Basin Reservoir Storage Map

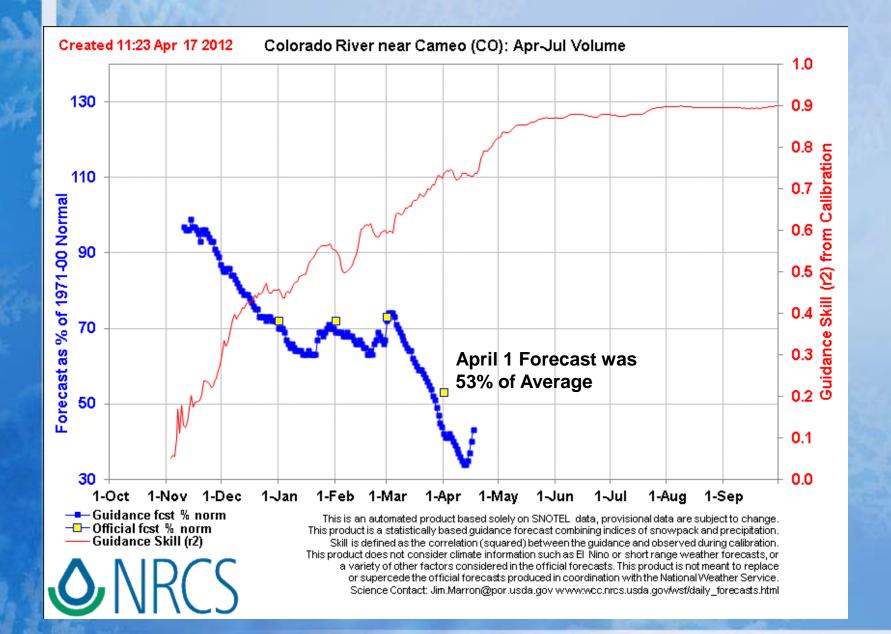


End of March 2012

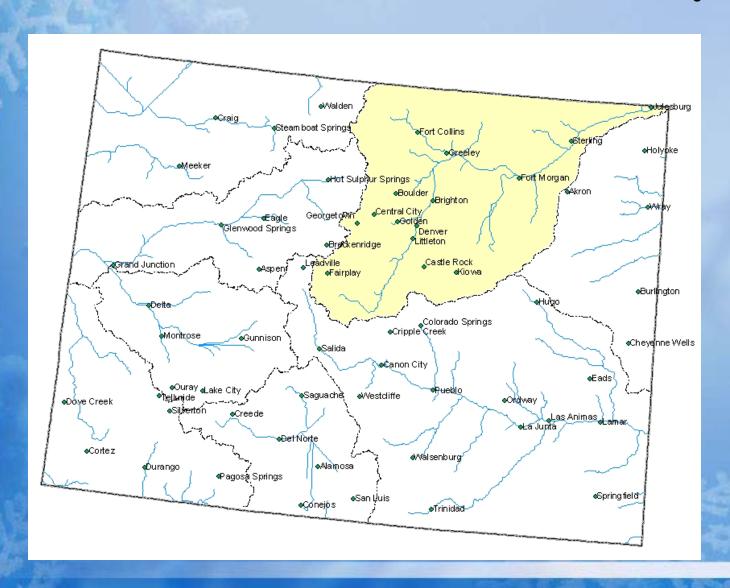
Colorado River Basin Streamflow Forecast Map



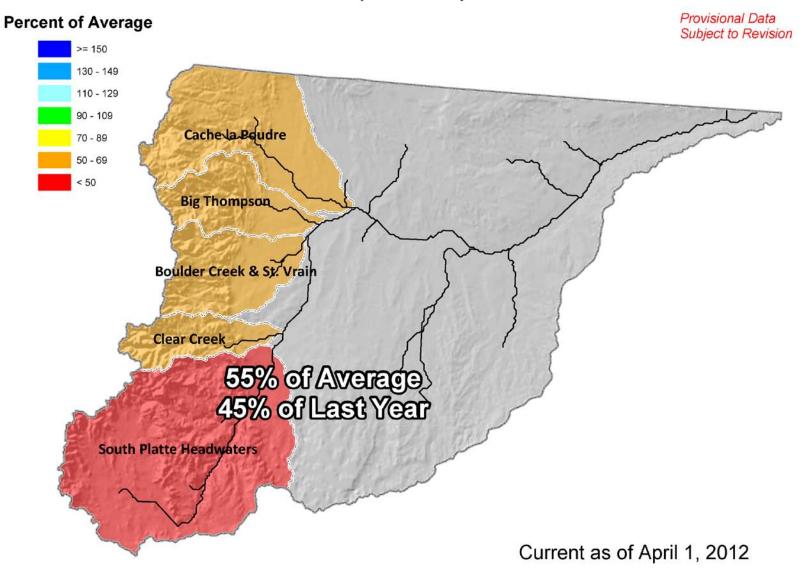
Current as of April 1, 2012



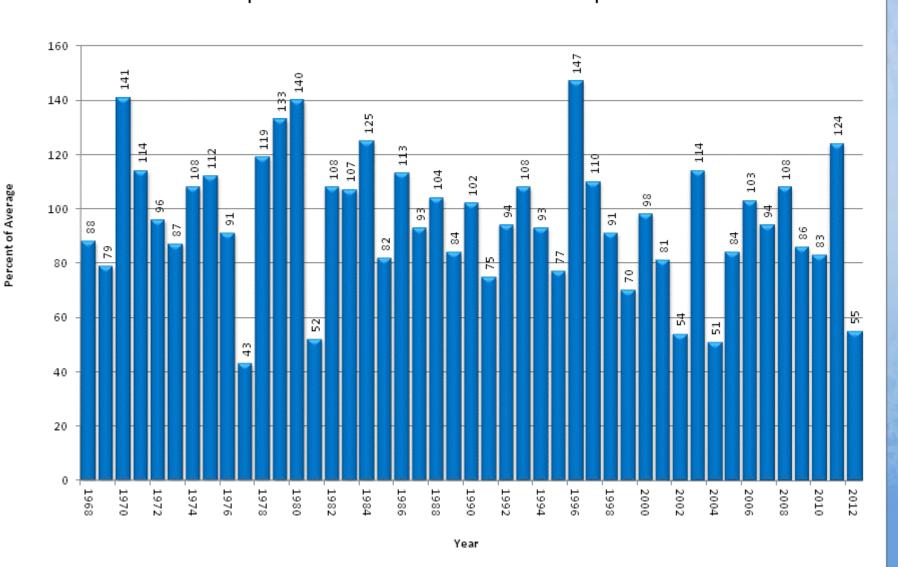
South Platte River Basin Summary



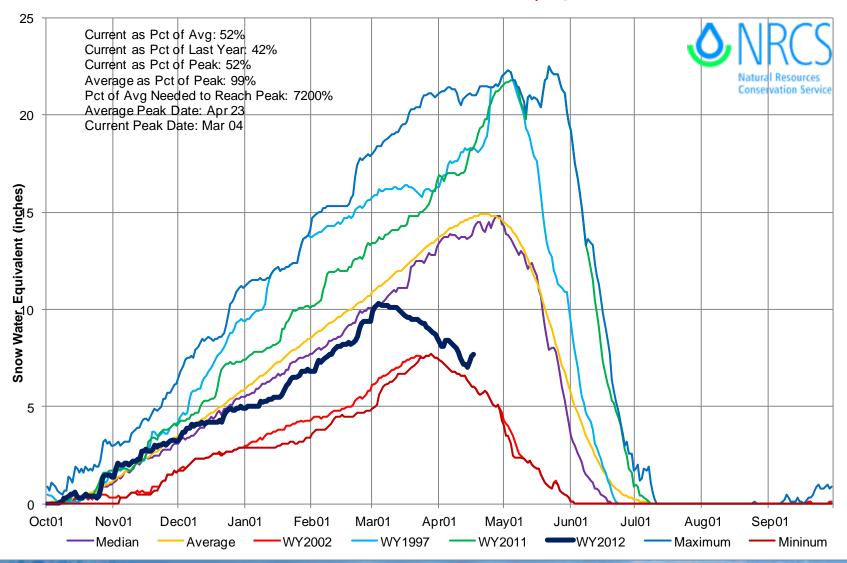
South Platte River Basin Snowpack Map



April 1 Total South Platte River Basin Snowpack

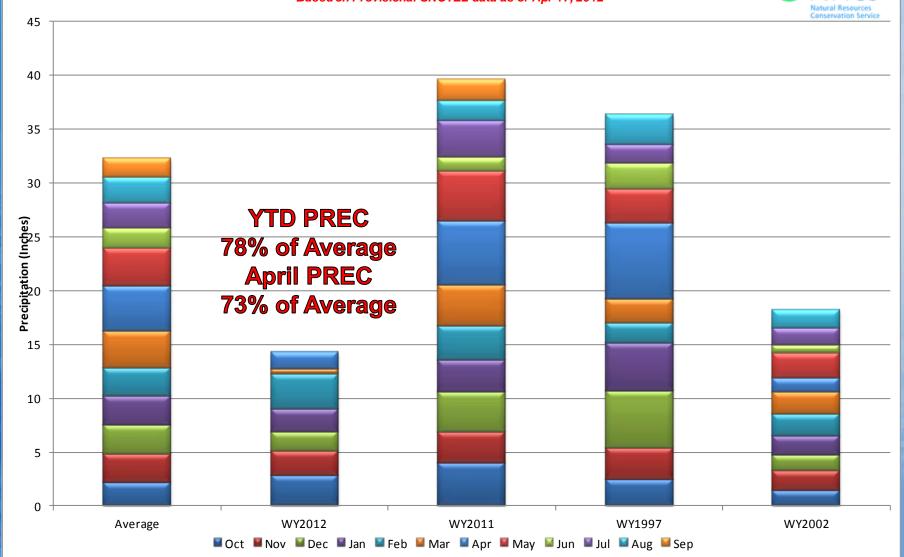


South Platte River Basin High/Low Snowpack Summary

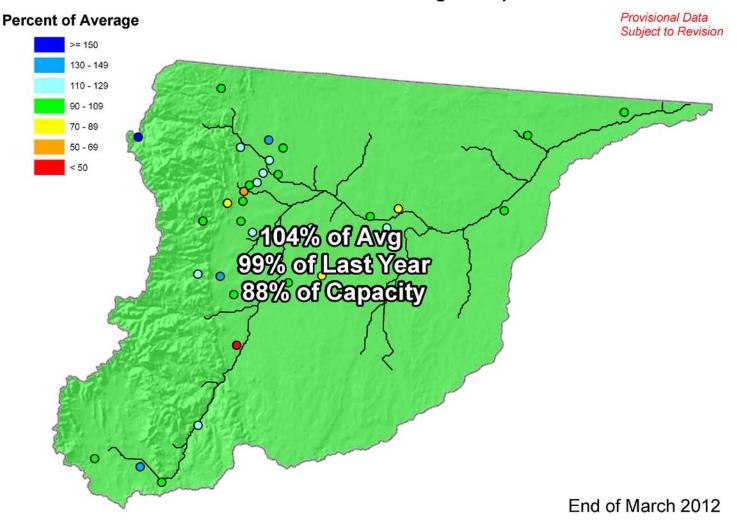


South Platte River Basin High/Low Monthly Precipitation Summary



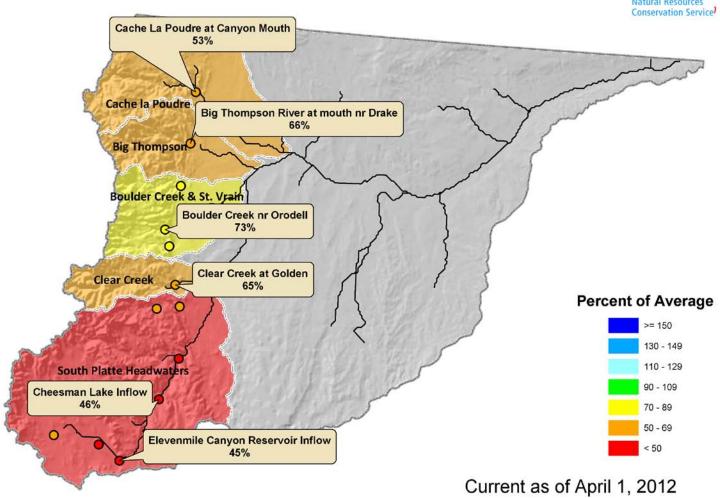


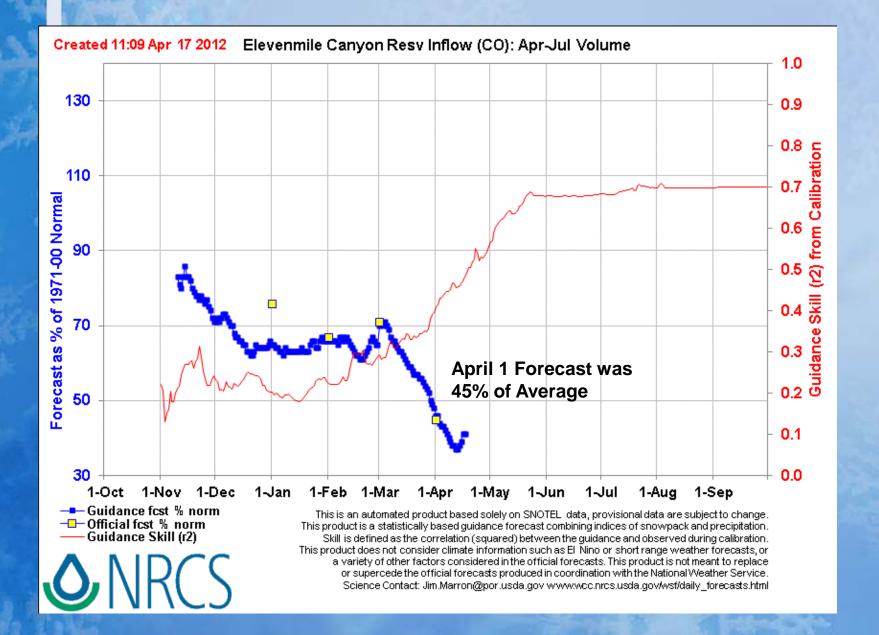
South Platte River Basin Reservoir Storage Map



South Platte River Basin Streamflow Forecast Map



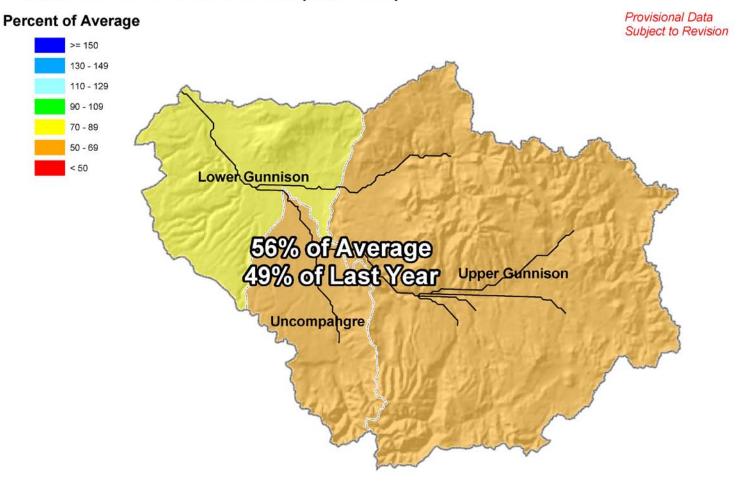




Gunnison River Basin Summary

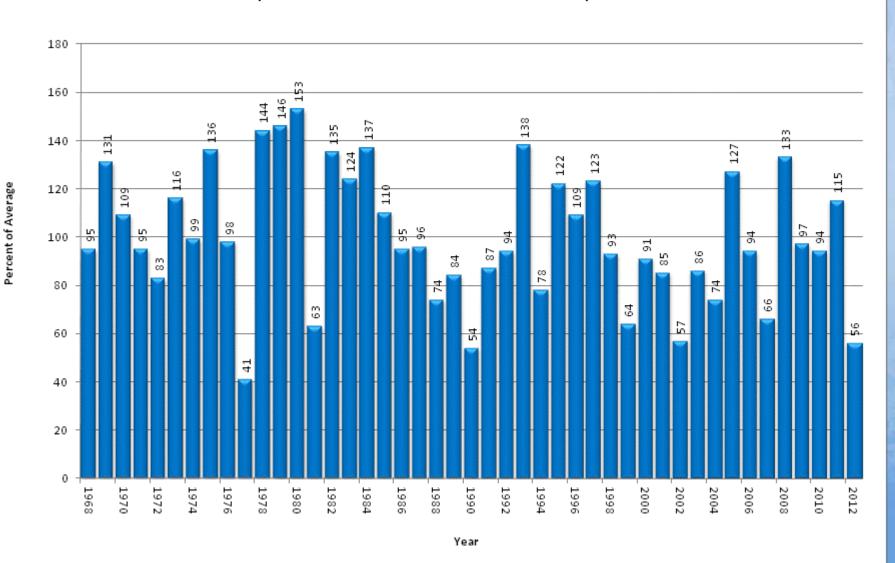


Gunnison River Basin Snowpack Map

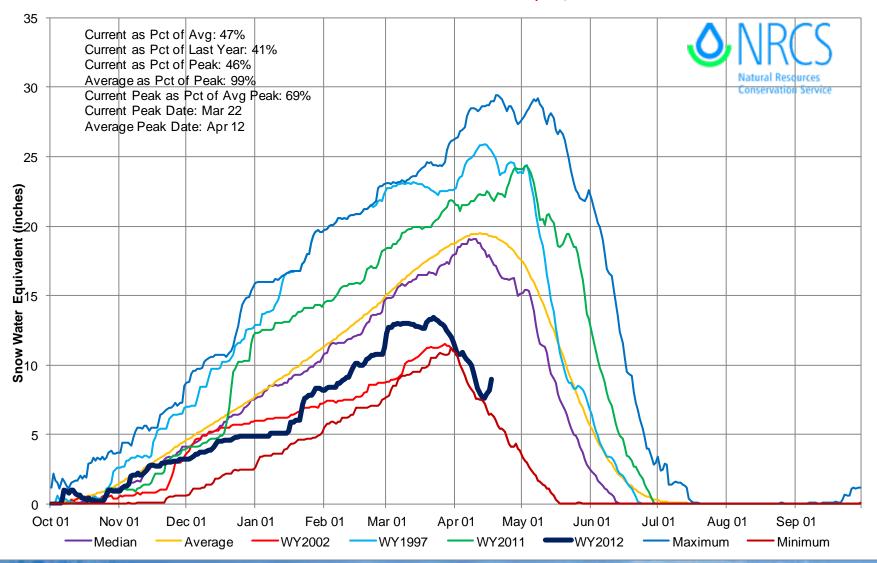


Current as of April 1, 2012

April 1 Total Gunnison River Basin Snowpack

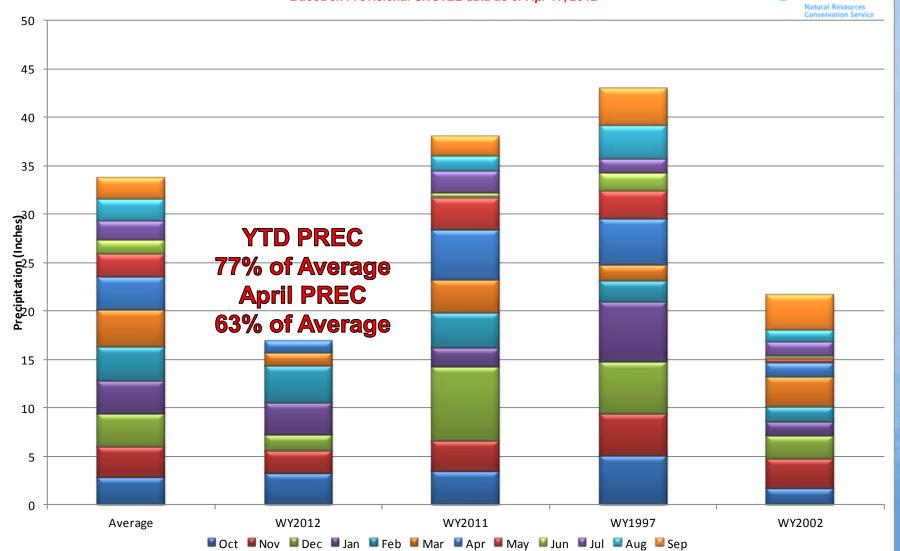


Gunnison River Basin High/Low Snowpack Summary



Gunnison River Basin High/Low Monthly Precipitation Summary



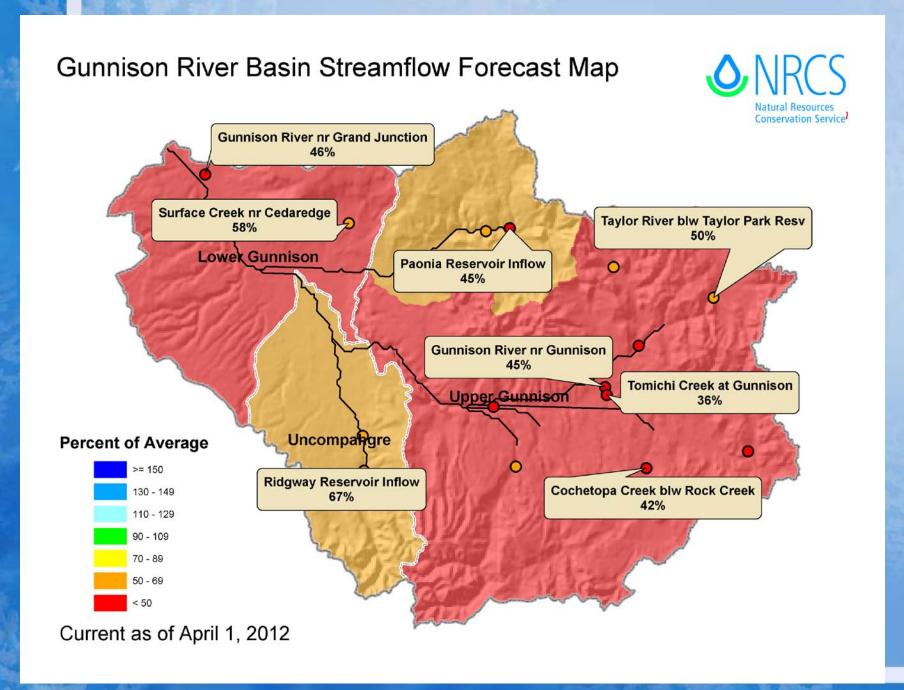


Gunnison River Basin Reservoir Storage Map

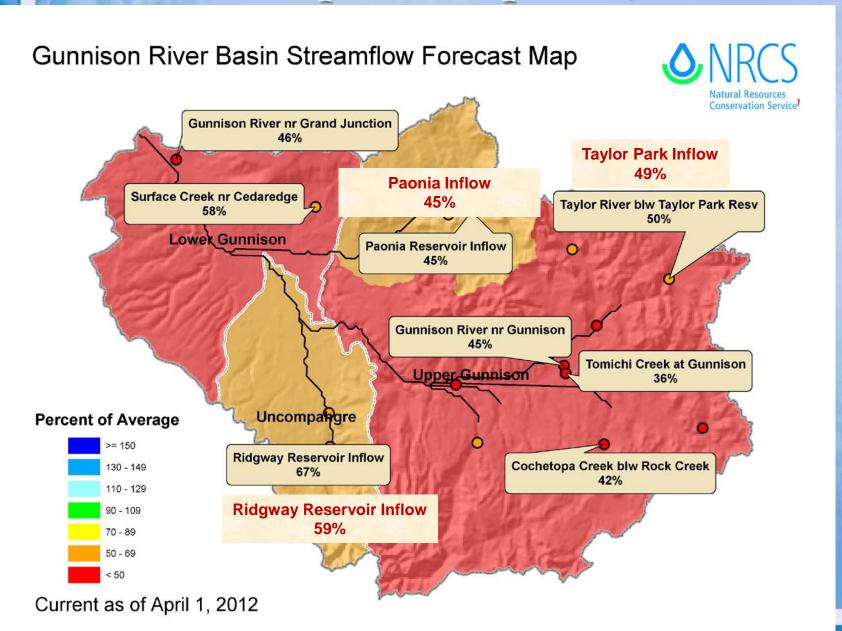
Provisional Data Subject to Revision



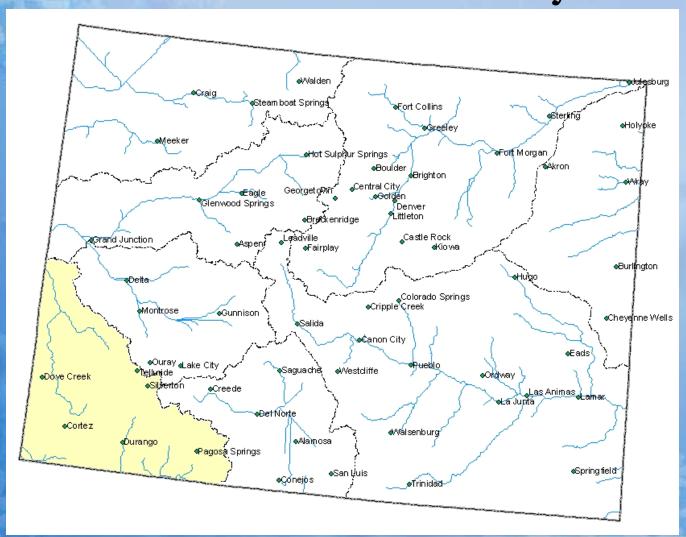
End of March 2012



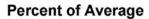
Forecasts Updated April 16, 2012

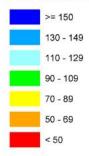


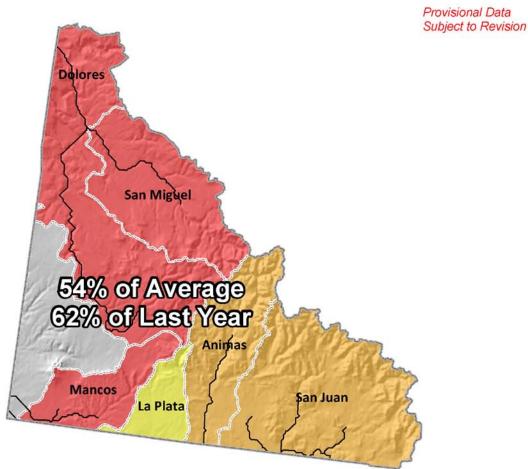
San Miguel, Dolores, Animas & San Juan River Basins Summary



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

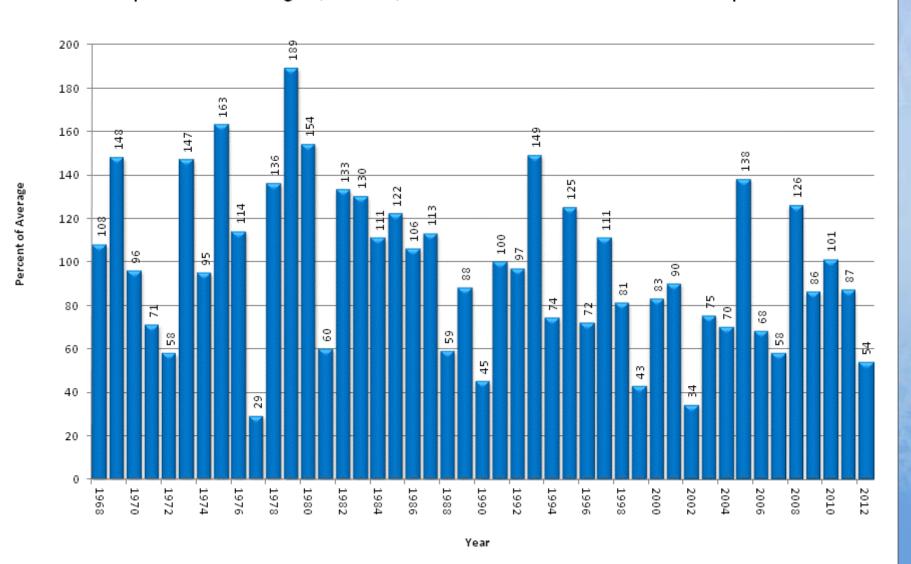




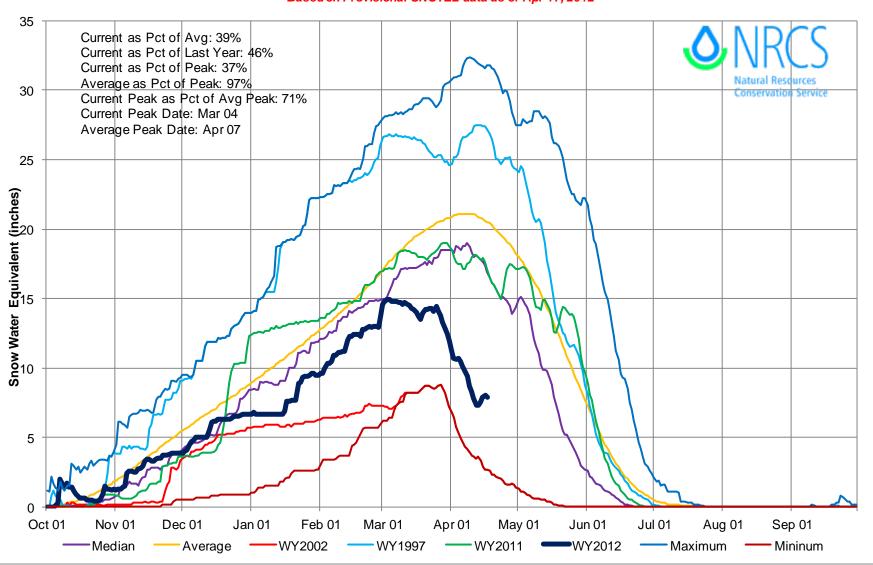


Current as of April 1, 2012

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

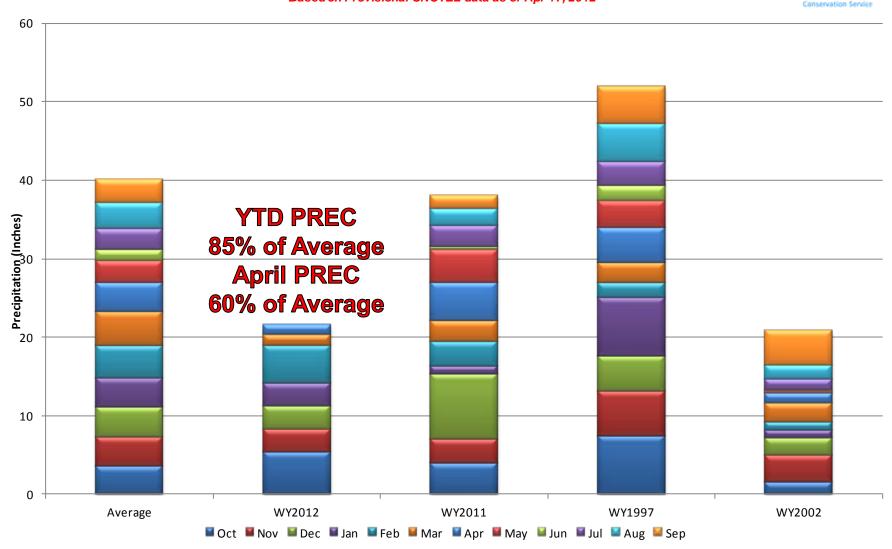


San Miguel, Dolores, Animas & San Juan River Basins High/Low Snowpack Summary

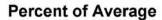


San Miguel, Dolores, Animas & San Juan River Basins High/Low Monthly Precipitation Summary

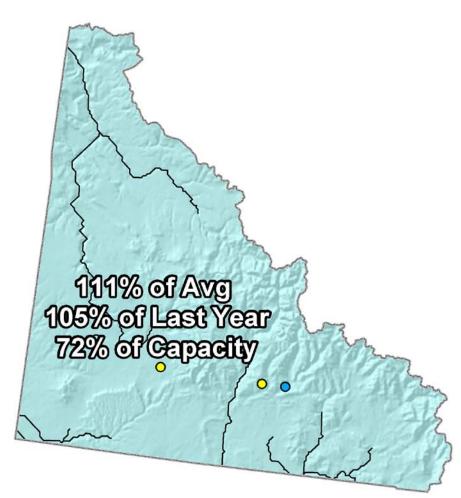
NATURAL Resources
Conservation Service



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







Provisional Data Subject to Revision

End of March 2012

San Miguel, Dolores, Animas and San Juan River Basins Streamflow Forecast Map **Conservation Service Percent of Average** Provisional Data Subject to Revision >= 150 130 - 149 110 - 129 90 - 109 70 - 89 50 - 69 < 50 San Miguel River nr Placerville San Miguek 61% Lilylands Reservoir Inlet 58% **Dolores** McPhee Reservoir Inflow Mancos River nr Mancos **Dolores River at Dolores** 61% 51% Mancos La Plata Animas Lemon Reservoir Inflow San Juan Animas River at Durango 63% Current as of April 1, 2012

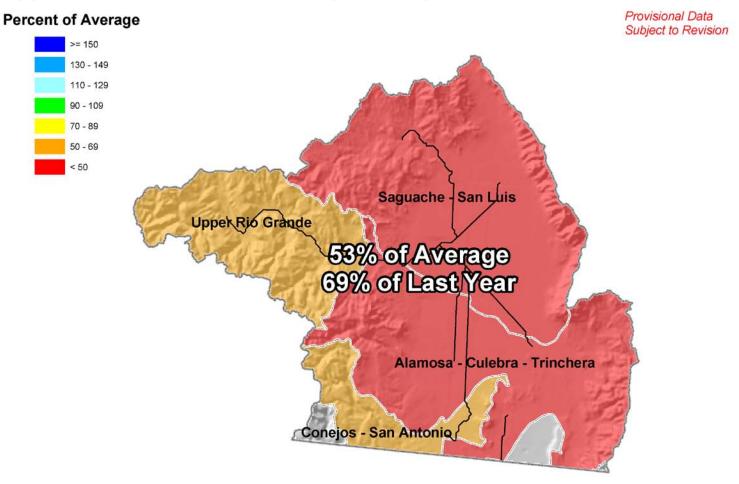
Forecasts Updated April 16, 2012

San Miguel, Dolores, Animas and San Juan River Basins Streamflow Forecast Map **Conservation Service Percent of Average** Provisional Data Subject to Revision >= 150 130 - 149 110 - 129 90 - 109 70 - 89 50 - 69 < 50 San Miguel River nr Placerville San Miguel 61% Lilylands Reservoir Inlet **Dolores** McPhee Reservoir Inflow McPhee Reservoir Inflow 48% Mancos River nr Mancos **Dolores River at Dolores** 61% 51% Animas Mancos La Plata Lemon Reservoir Inflow 69% Animas River at Durango **Lemon Reservoir Inflow** 63%

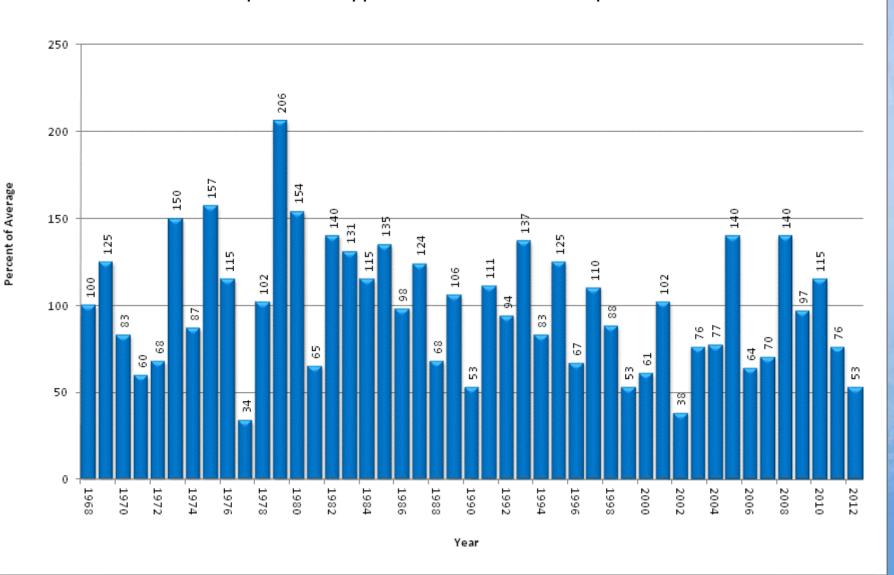
Upper Rio Grande Basin Summary



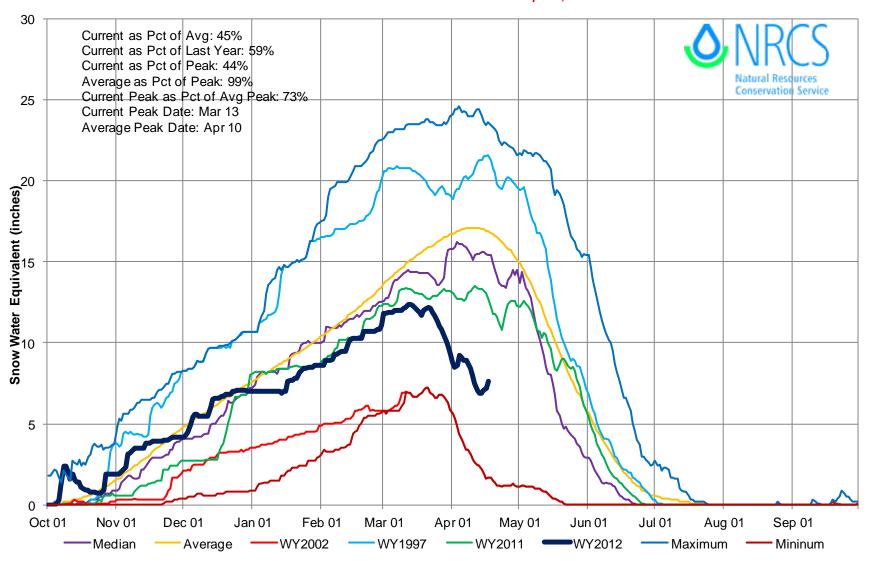
Upper Rio Grande Basin Snowpack Map



April 1 Total Upper Rio Grande Basin Snowpack

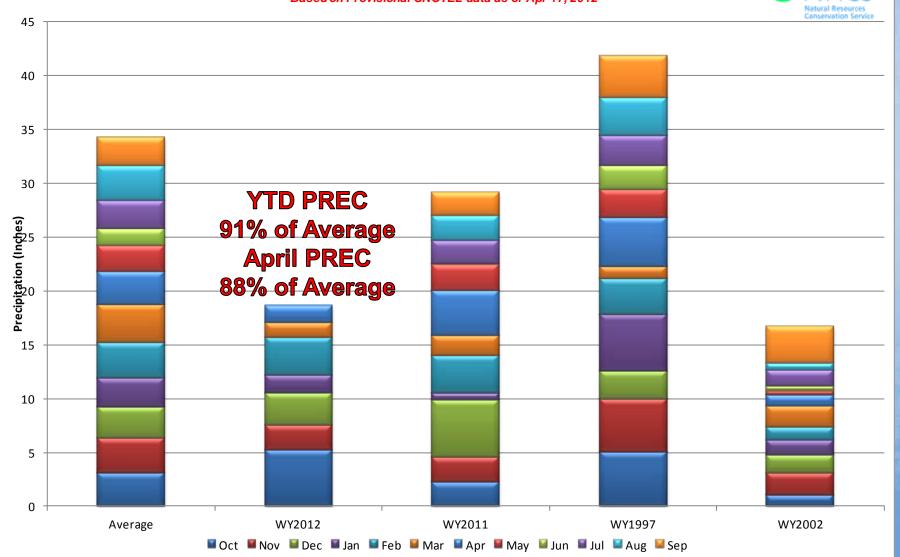


Upper Rio Grande Basin High/Low Snowpack Summary

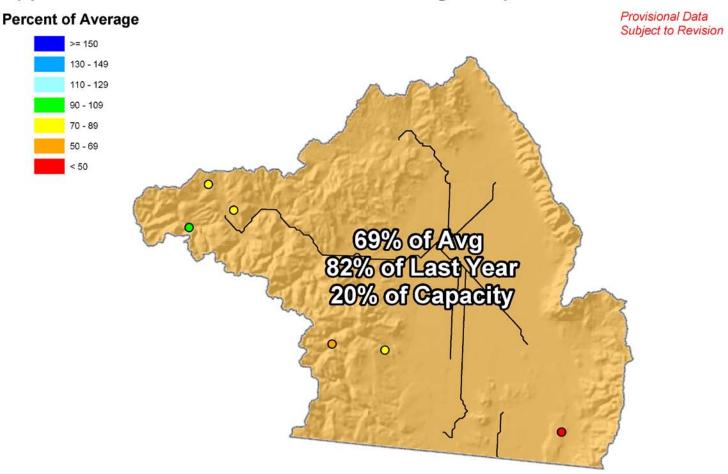


Upper Rio Grande Basin High/Low Monthly Precipitation Summary

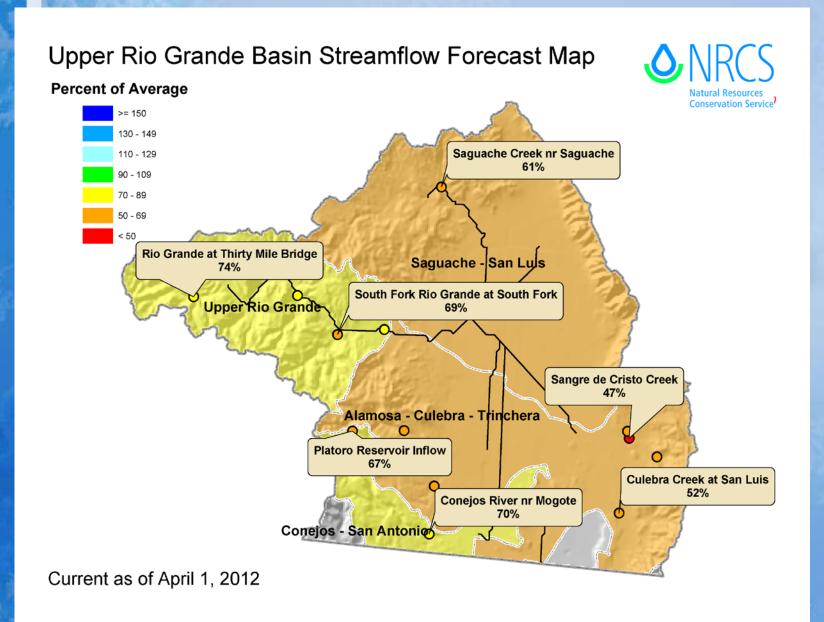


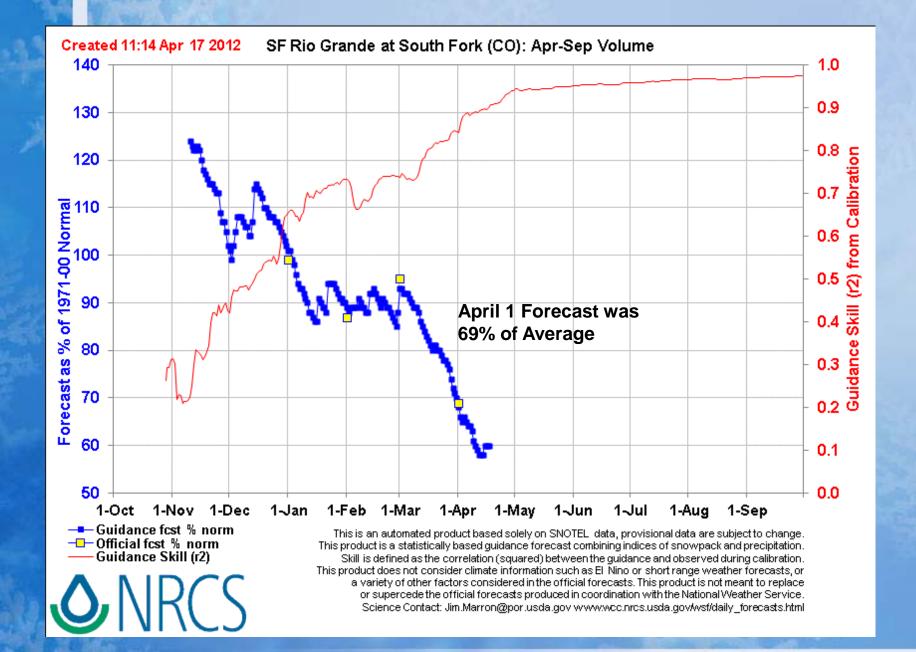


Upper Rio Grande Basin Reservoir Storage Map



End of February 2012

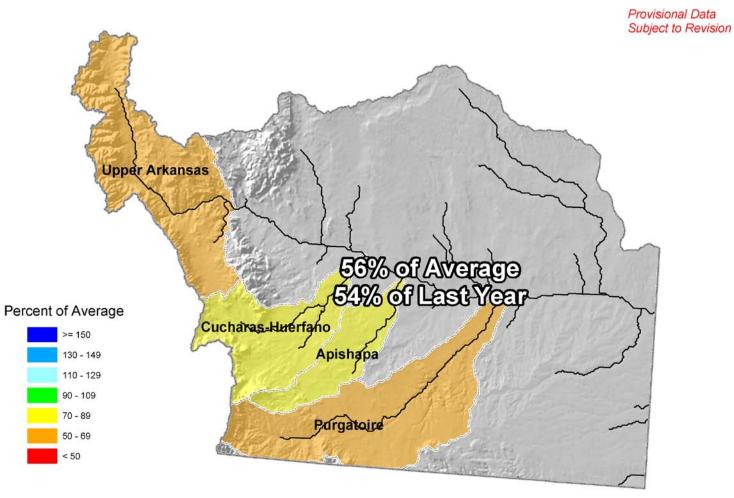




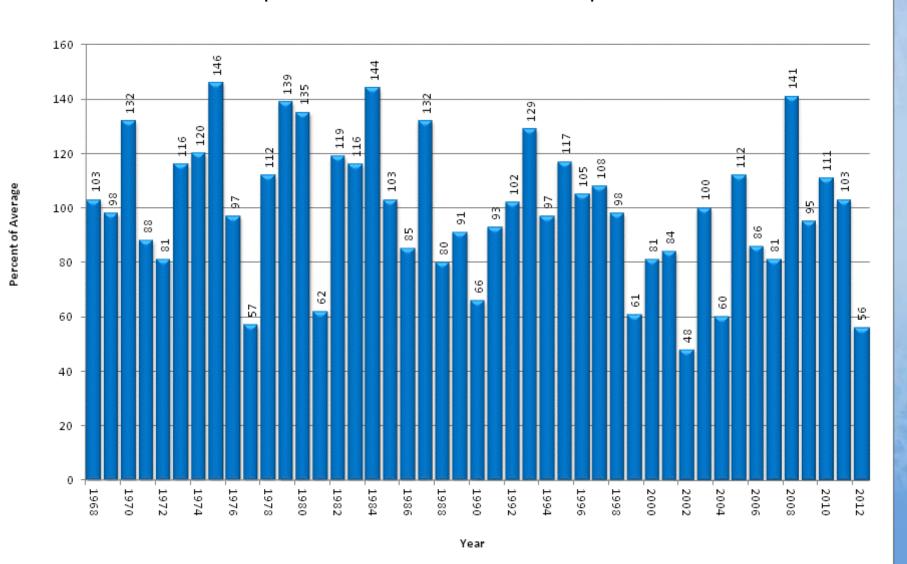
Arkansas River Basin Summary



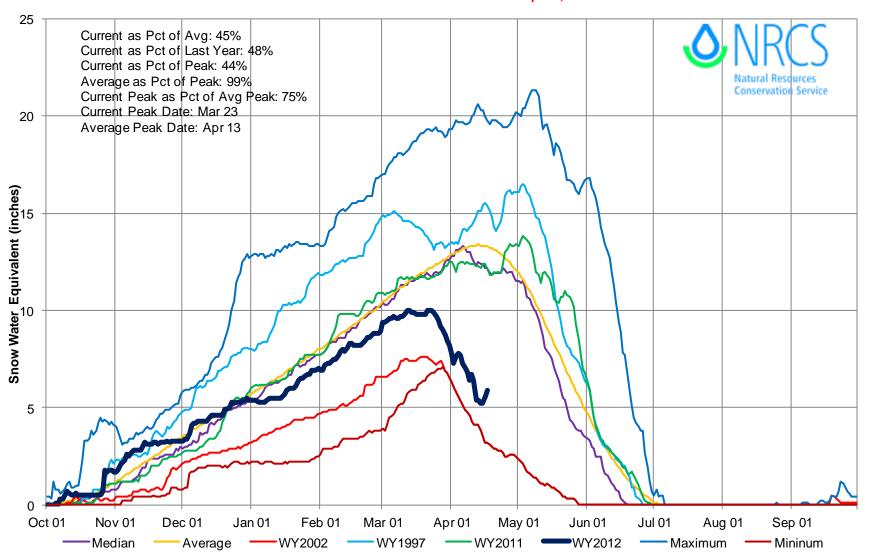
Arkansas River Basin Snowpack Map



April 1 Total Arkansas River Basin Snowpack

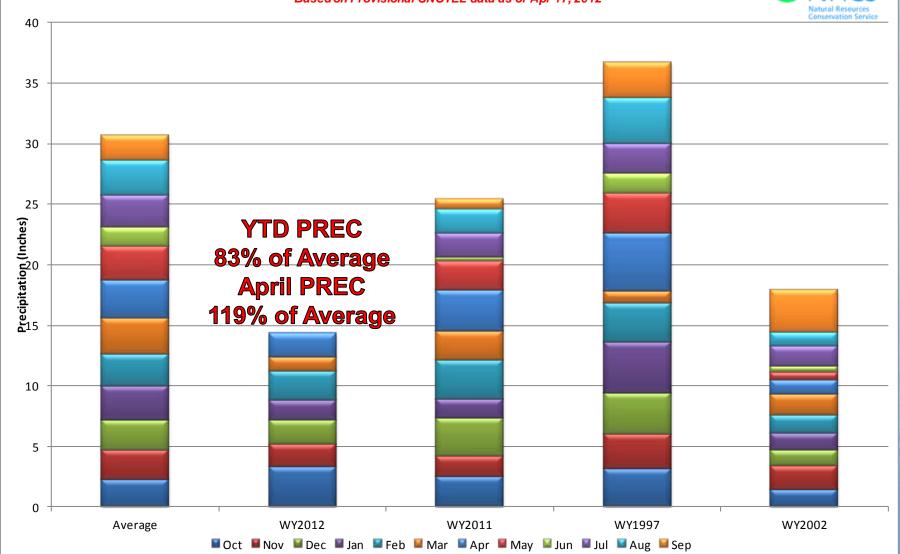


Arkansas River Basin High/Low Snowpack Summary

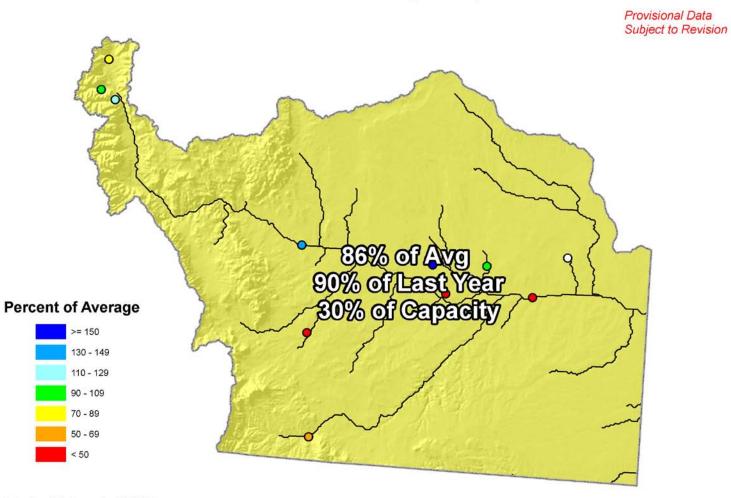


Arkansas River Basin High/Low Monthly Precipitation Summary



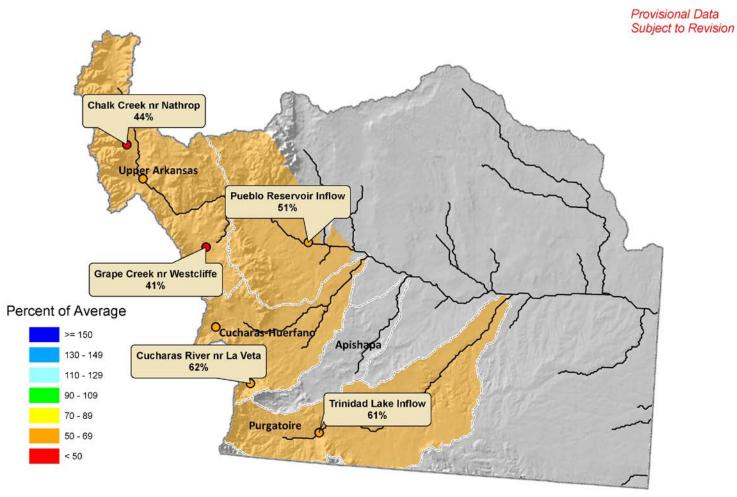


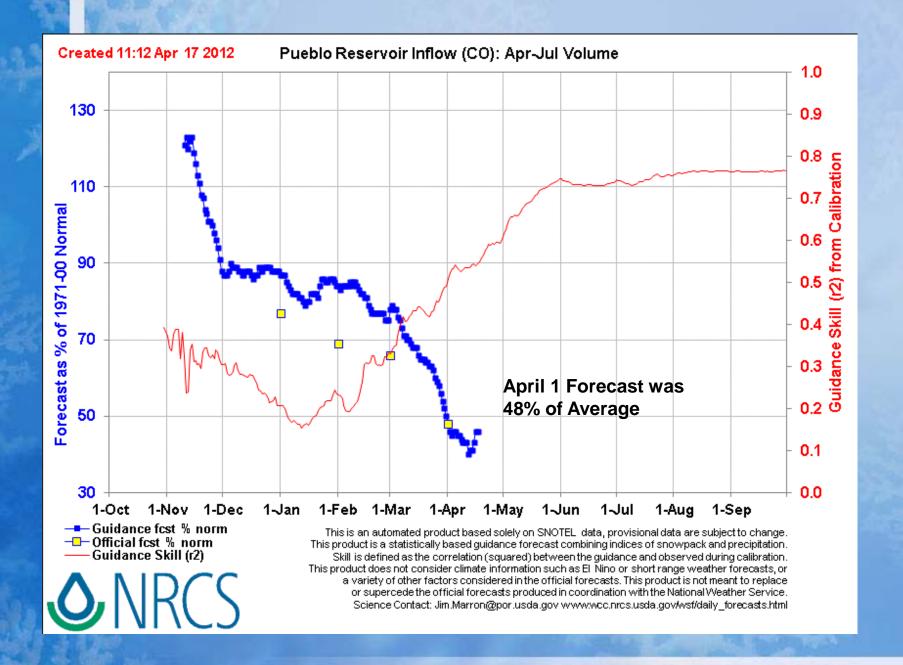
Arkansas River Basin Reservoir Storage Map



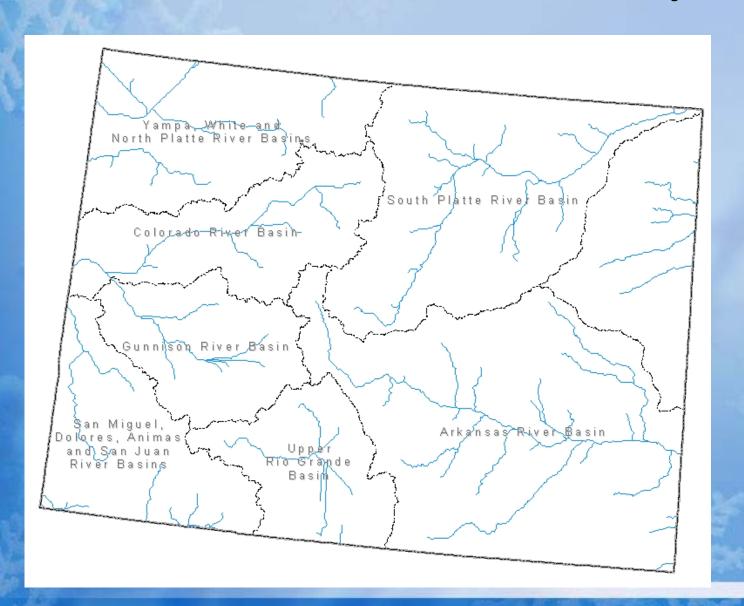
End of March 2012

Arkansas River Basin Streamflow Forecast Map



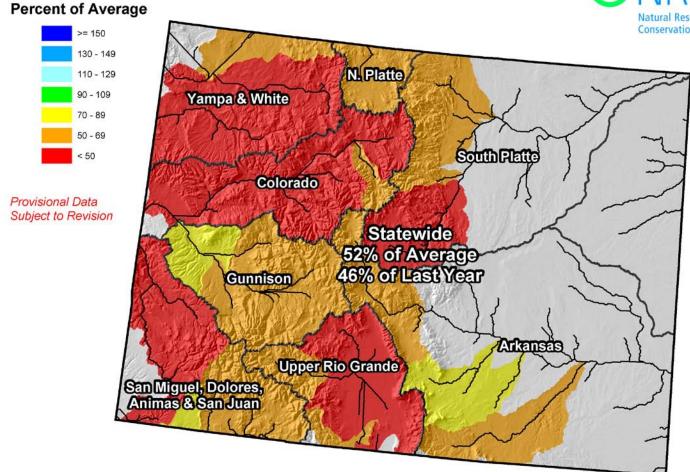


Colorado Statewide Summary



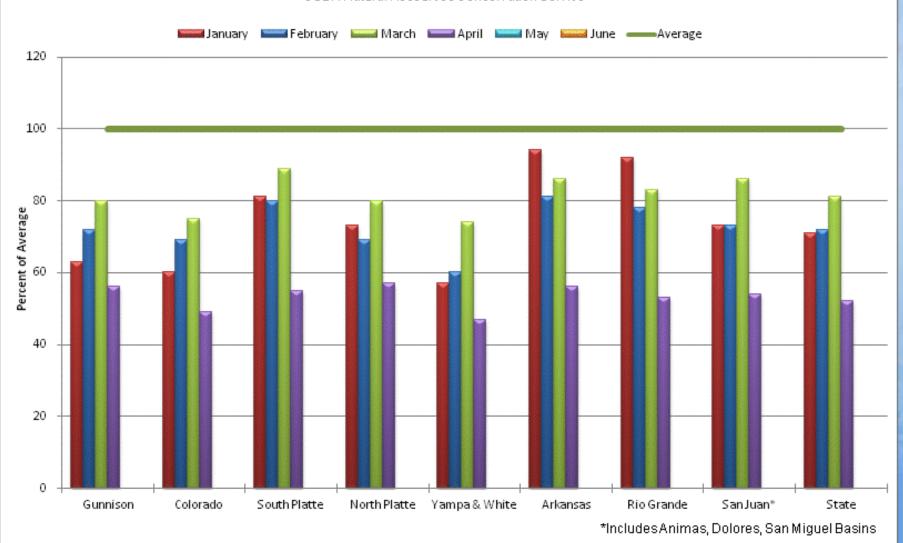
Colorado Snowpack Map



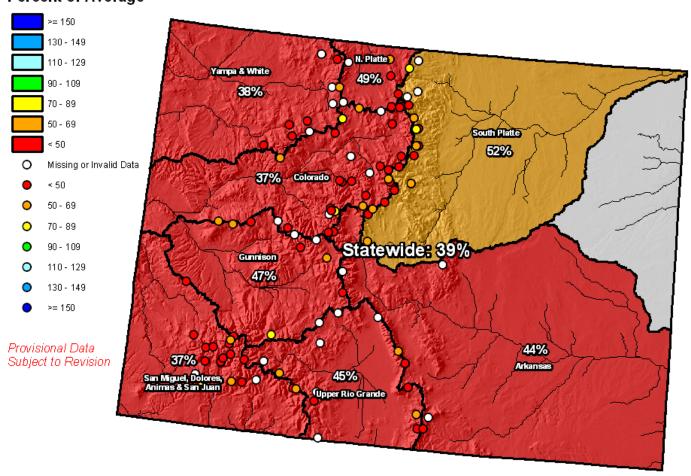


Colorado Snowpack Summary for 2012

USDA Natural Resources Conservation Service



Colorado SNOTEL Snowpack Update Map with Site Data Percent of Average

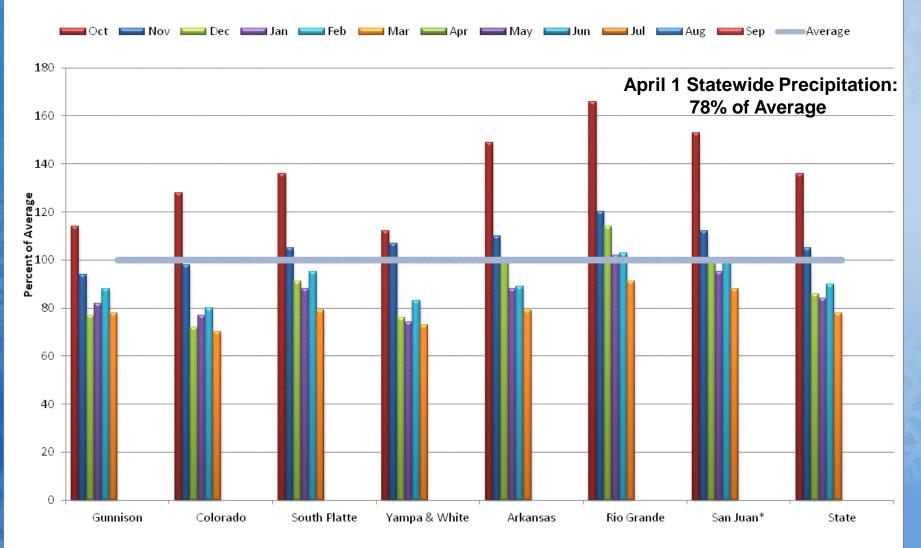


Current as of Apr 17, 2012

*Data may not provide a valid measure of conditions

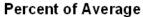
Colorado Year-to-Date Precipitation Summary for WY2012

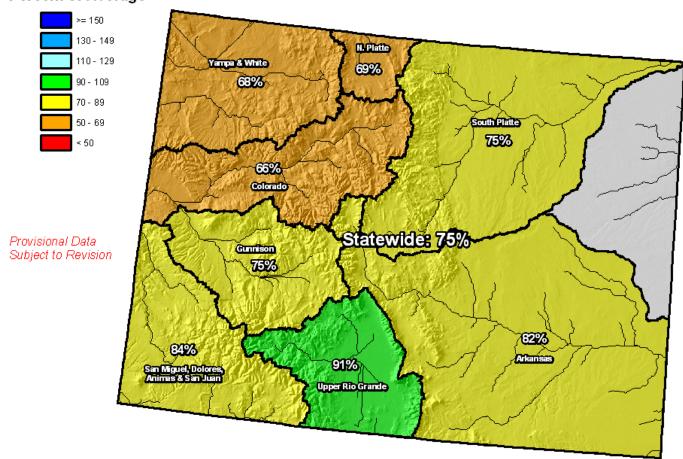
USDA Natural Resources Conservation Service



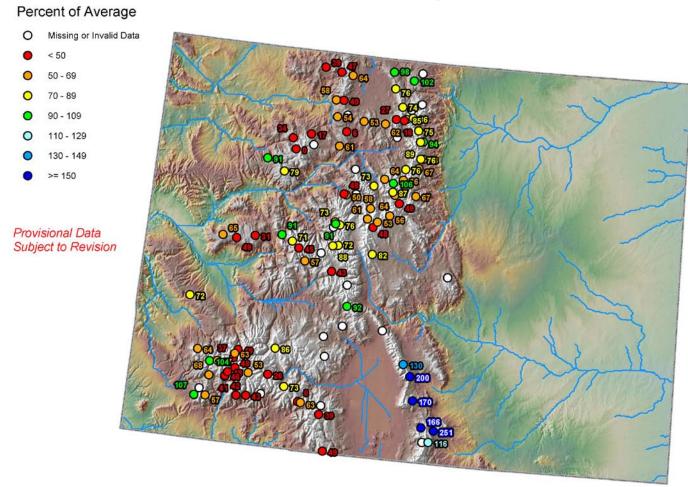
*Includes Animas, Dolores, San Miguel Basins

Colorado SNOTEL Water Year-to-Date Precipitation Update Map



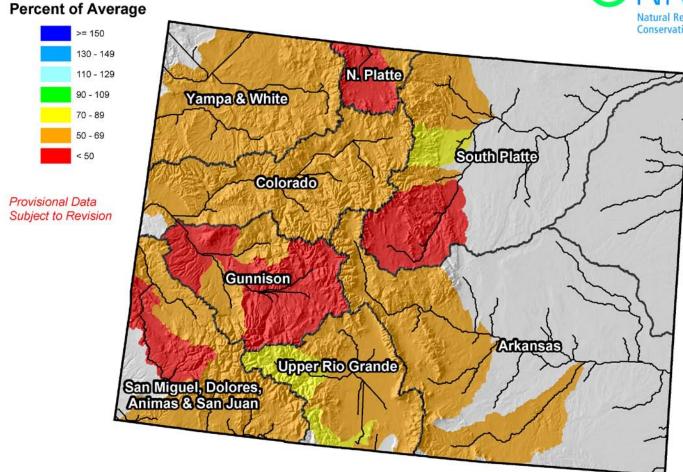


Colorado SNOTEL Month-to-Date Precipitation



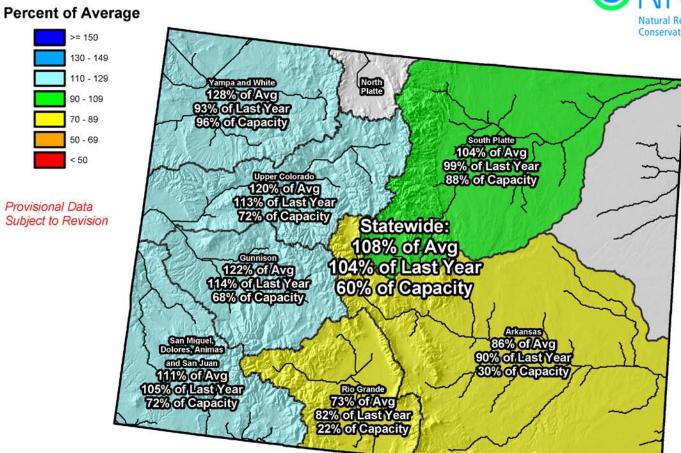
Colorado Streamflow Forecast Map





Colorado Reservoir Storage Map

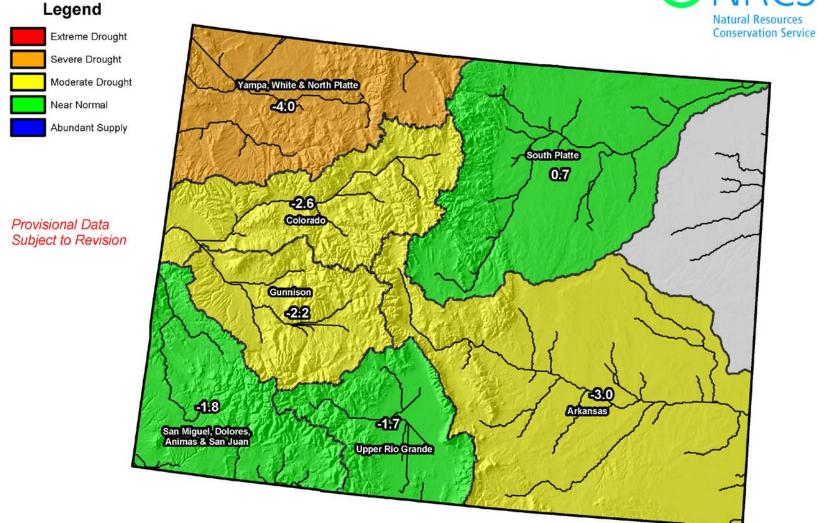


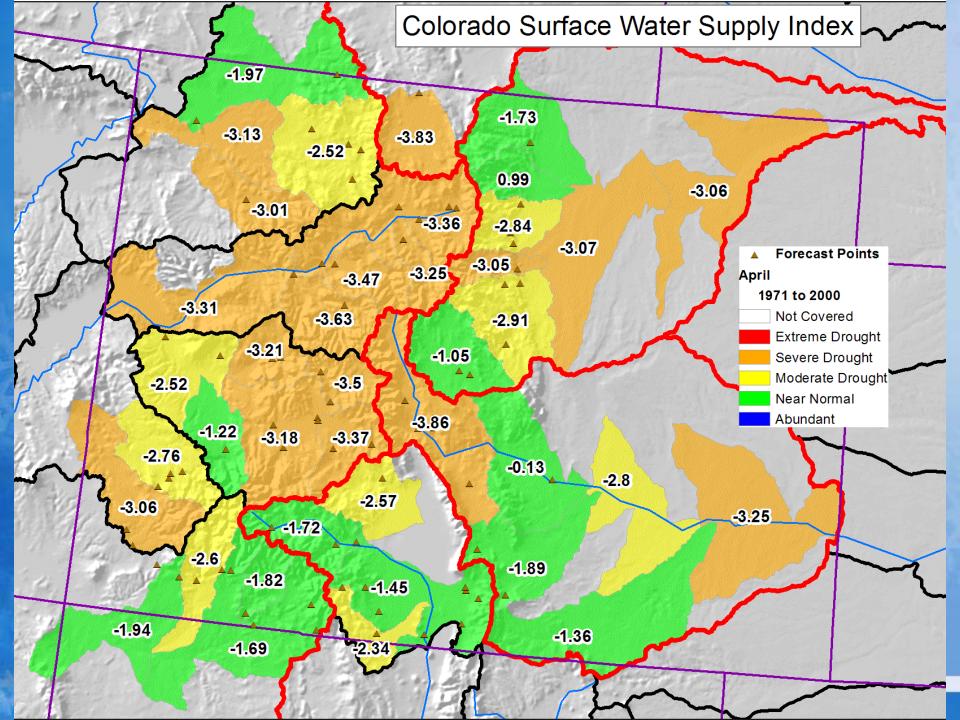


End of March 2012

Colorado Surface Water Supply Index (SWSI) Map







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 Extremely DRY month! Little to no additional snow accumulation across the state. All basins snowpack percentages decreased significantly and look to have reached peak SWE in early to mid March, two to seven weeks early!
- April Not quite as dry as March however most basins are still reporting below average prec so far this month with the exception of the Arkansas. Streamflow forecasts across the state have dropped 20 -50 percent from those issued on March 1 and are still decreasing. Yampa, White, and Colorado basins are fairing the worst with snowpack's below 50% of average and very low forecasts.