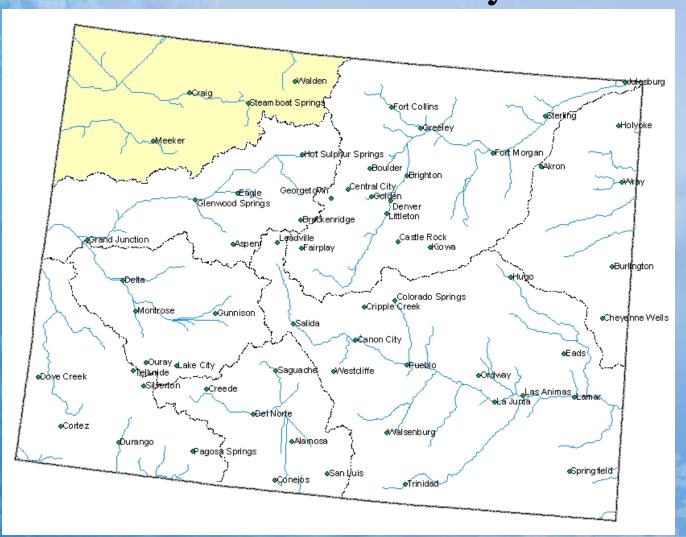
NRCS – Snow Survey & Water Supply Forecasting

Mage Hultstrand

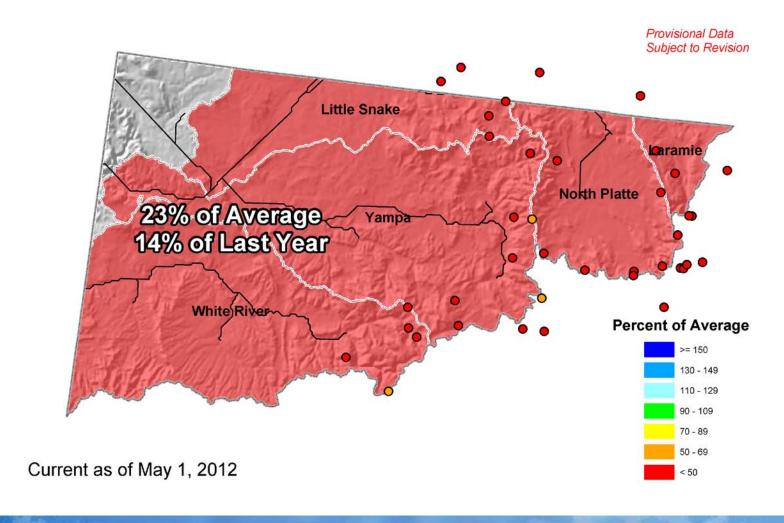
Water Availability Task Force Meeting
May 22, 2012

Yampa, White & North Platte River Basins Summary

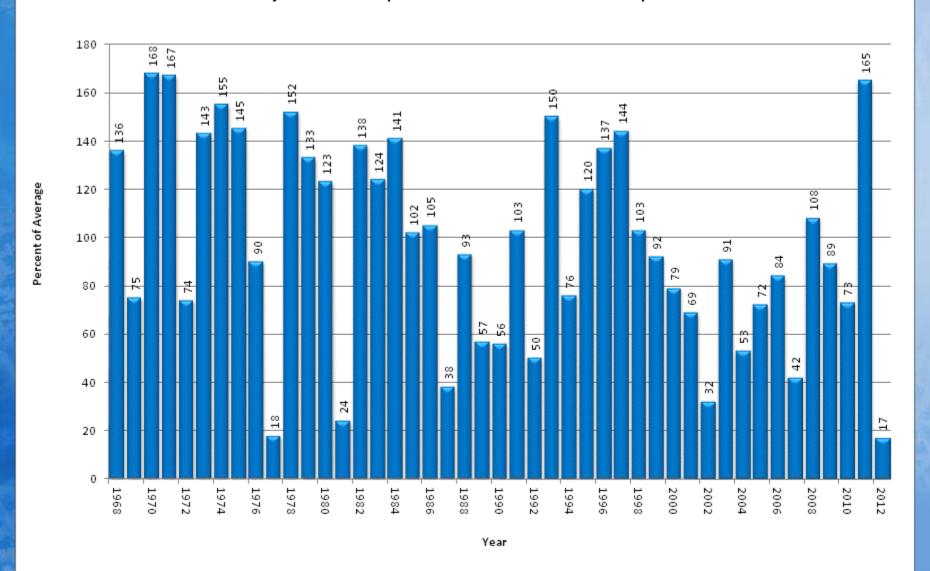


Yampa, White and North Platte River Basins Snowpack Map

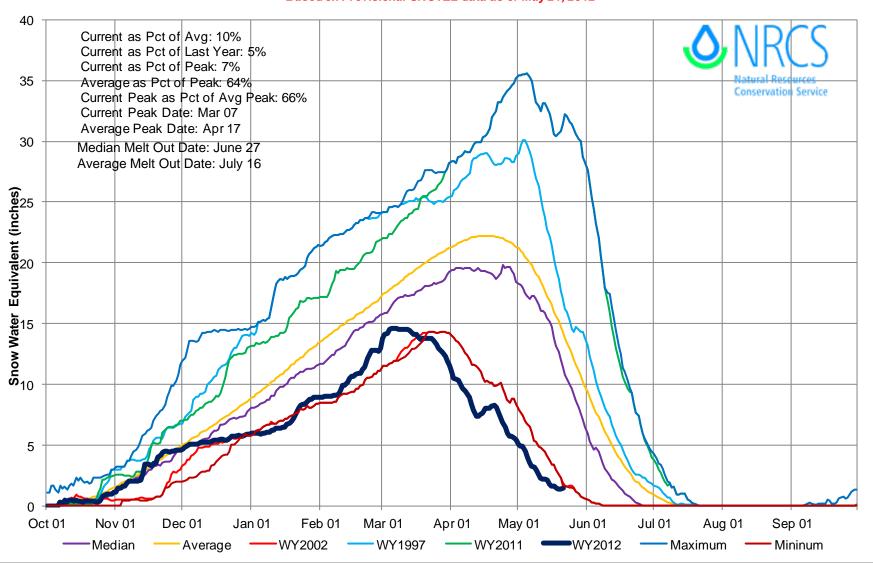




May 1 Total Yampa & White River Basins Snowpack

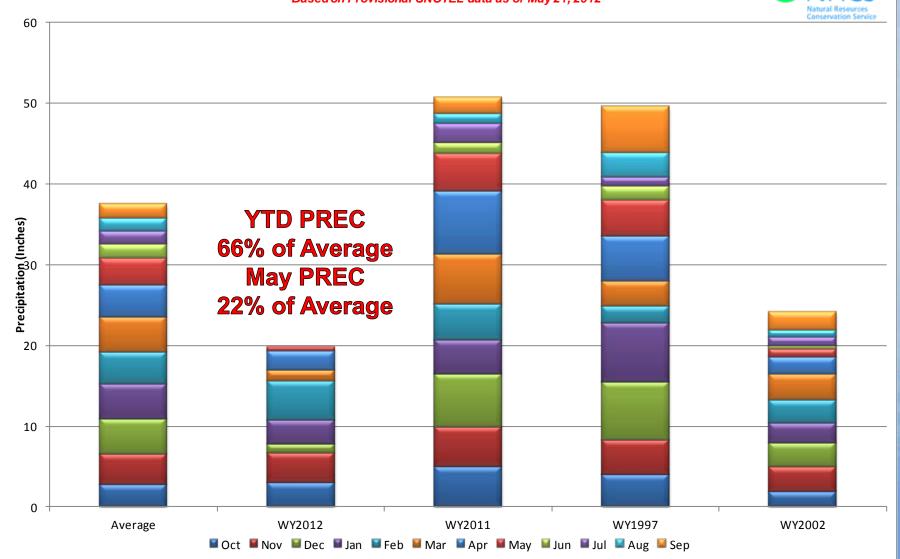


Yampa, White and North Platte River Basins High/Low Snowpack Summary



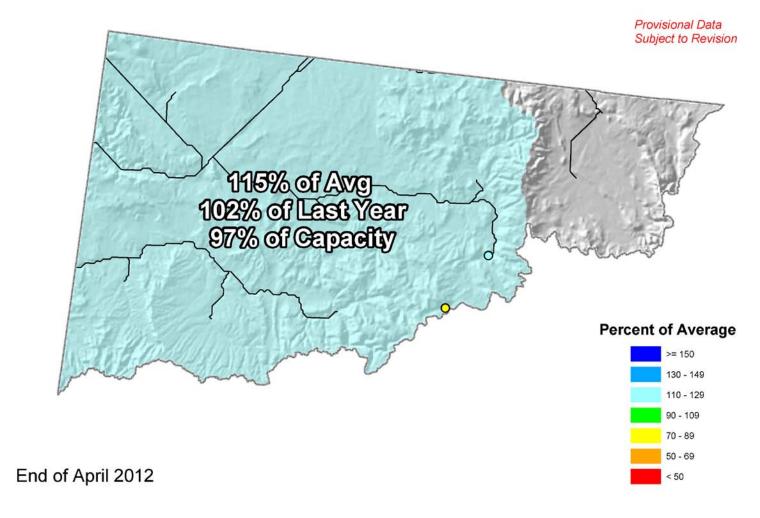
Yampa and White River Basins High/Low Monthly Precipitation Summary





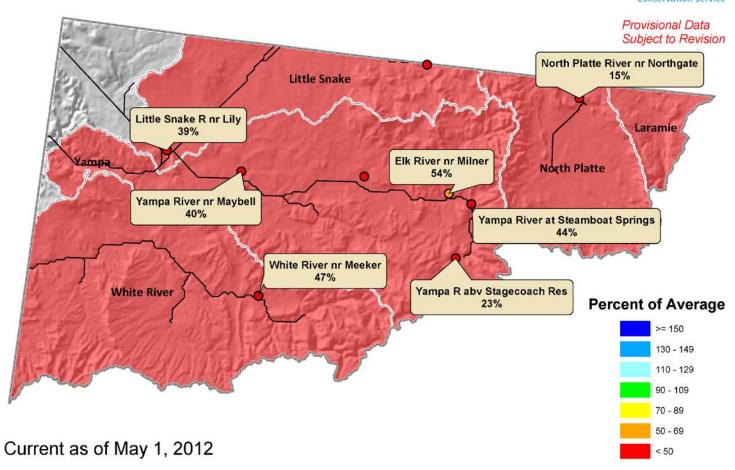
Yampa & White River Basins Reservoir Storage Map



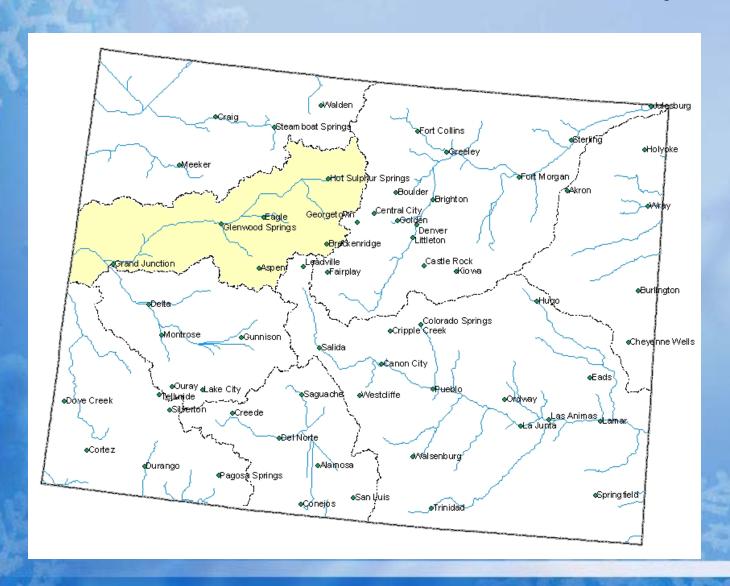


Yampa, White and North Platte River Basins Streamflow Map



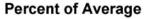


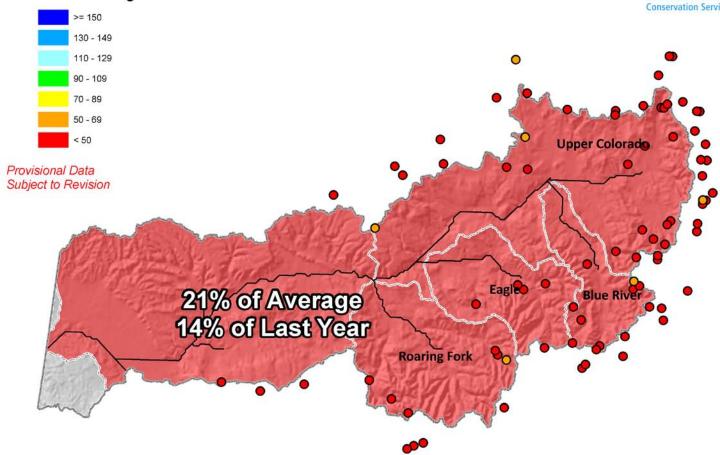
Colorado River Basin Summary



Colorado River Basin Snowpack Map



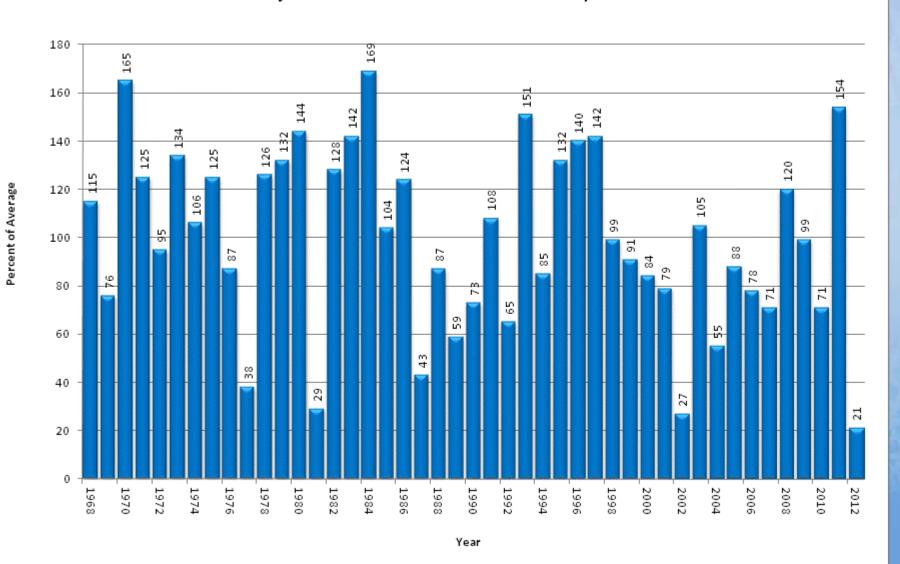




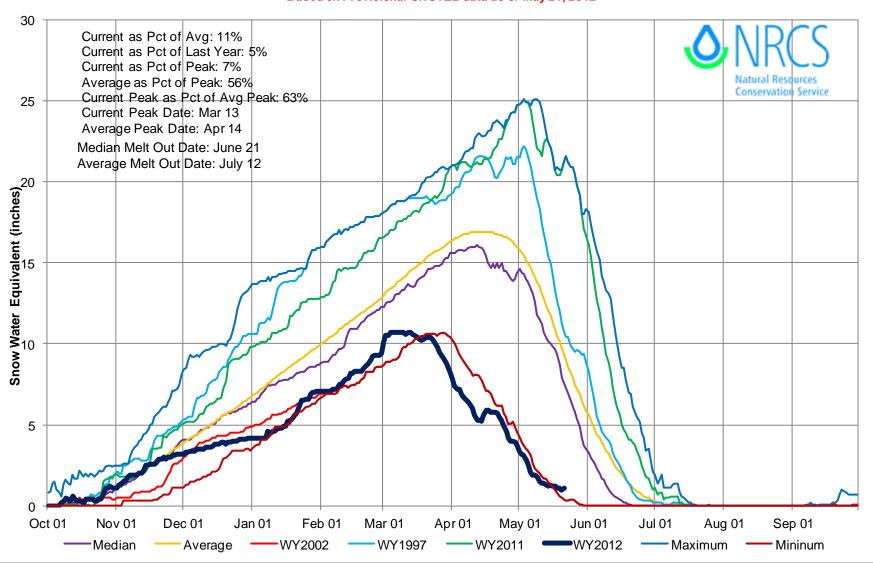
Current as of May 1, 2012

Lake Powell Inflow: Apr – Jul = 2260 ac-ft, 32% average

May 1 Total Colorado River Basin Snowpack

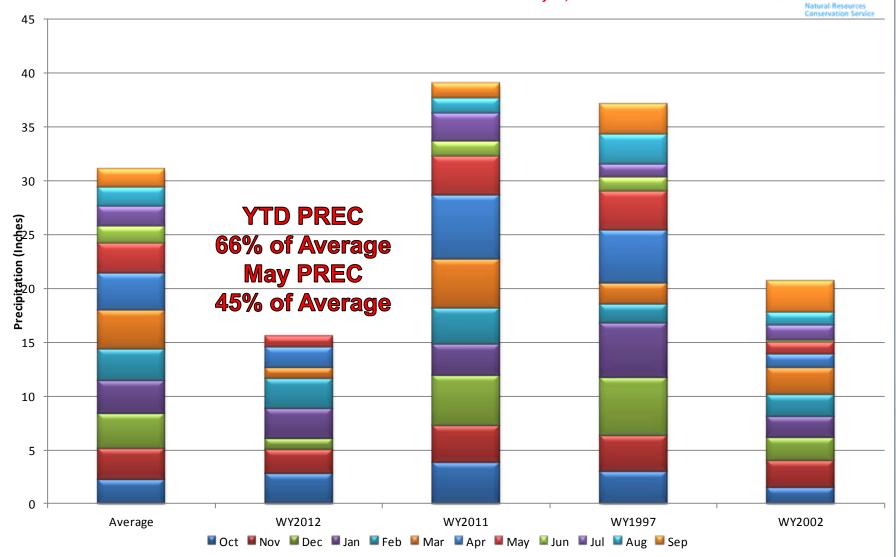


Upper Colorado River Basin High/Low Snowpack Summary



Upper Colorado River Basin High/Low Monthly Precipitation Summary





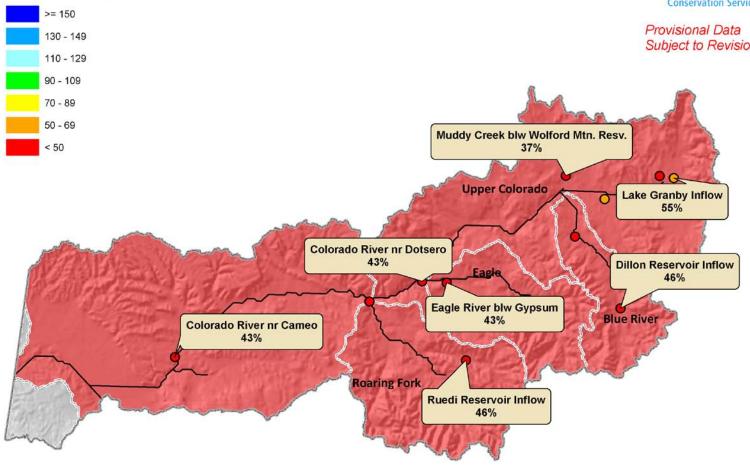
Colorado River Basin Reservoir Storage Map **Percent of Average** >= 150 Provisional Data 130 - 149 Subject to Revision 110 - 129 90 - 109 70 - 89 50 - 69 < 50 127% of Avg 107% of Last Year 75% of Capacity

End of April 2012



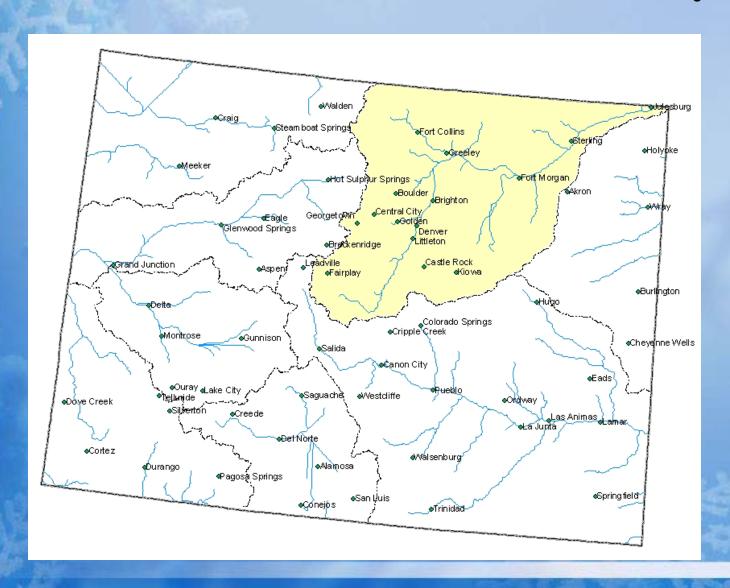


Provisional Data Subject to Revision



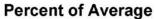
Current as of May 1, 2012

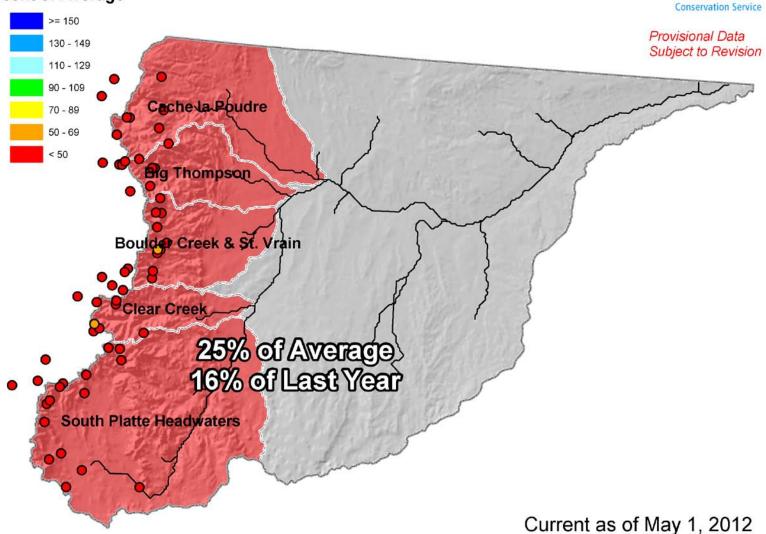
South Platte River Basin Summary



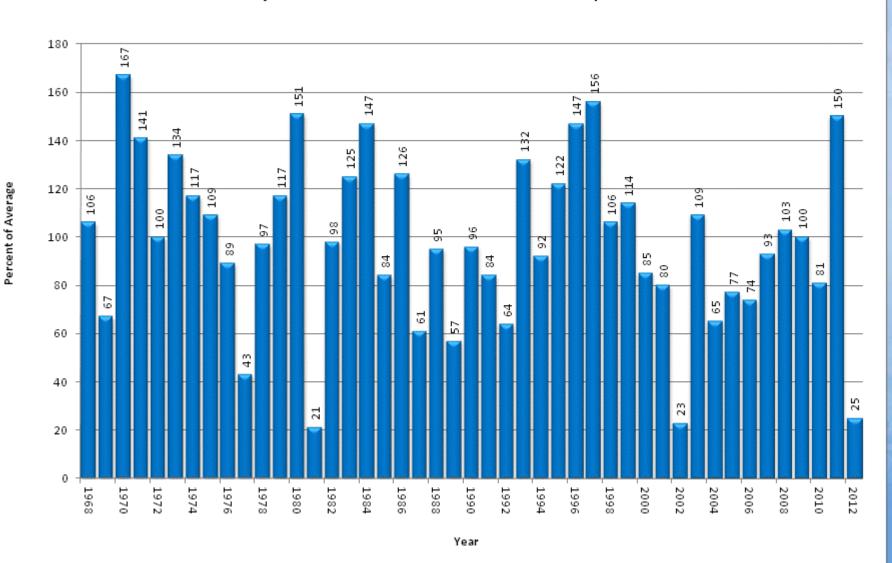
South Platte River Basin Snowpack Map



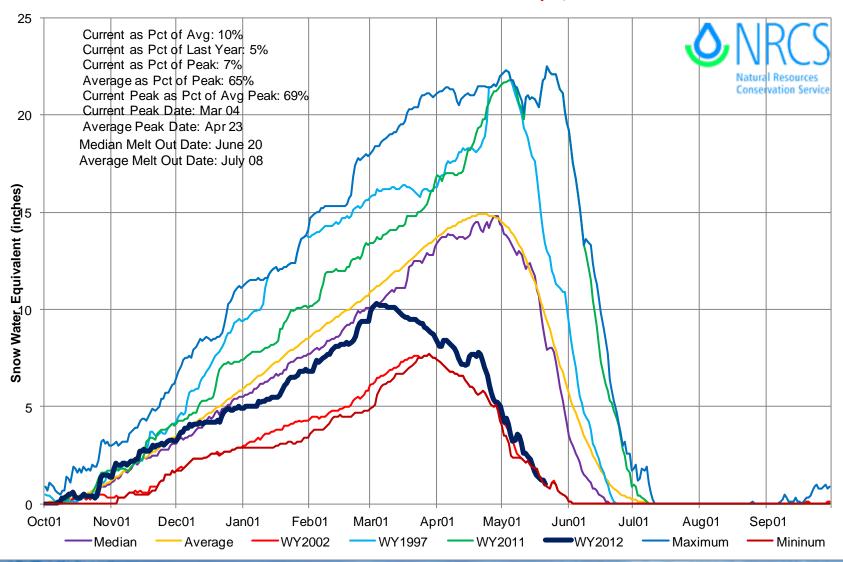




May 1 Total South Platte River Basin Snowpack

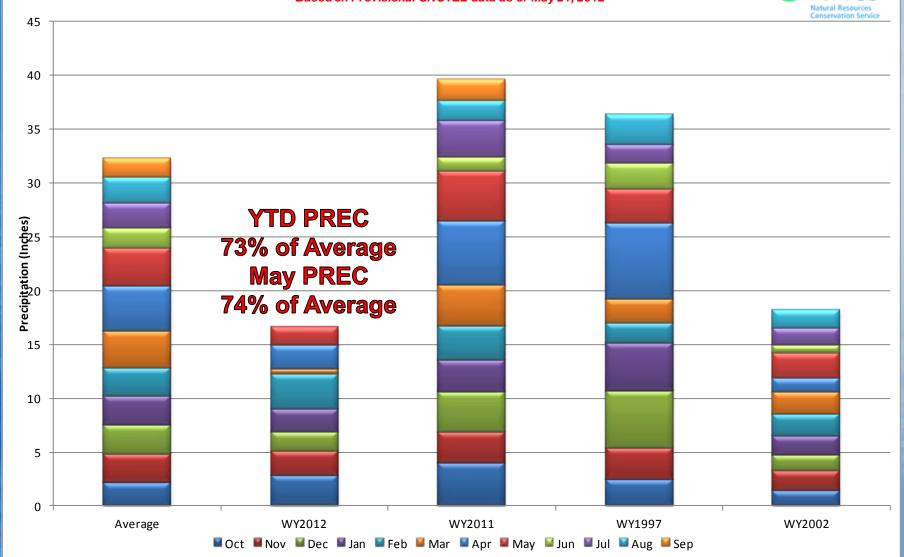


South Platte River Basin High/Low Snowpack Summary



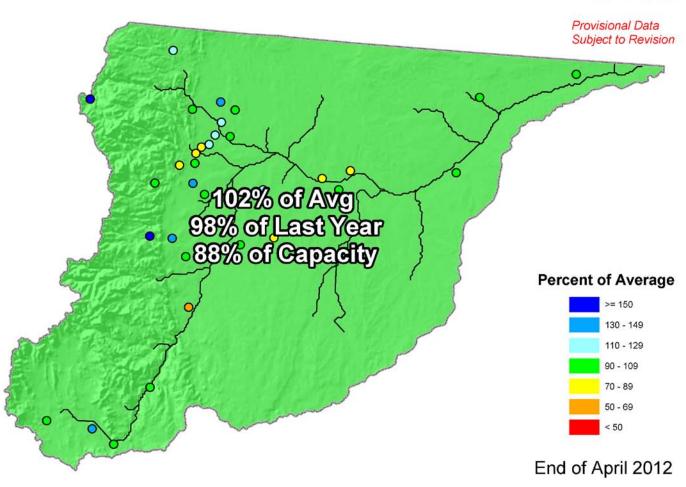
South Platte River Basin High/Low Monthly Precipitation Summary

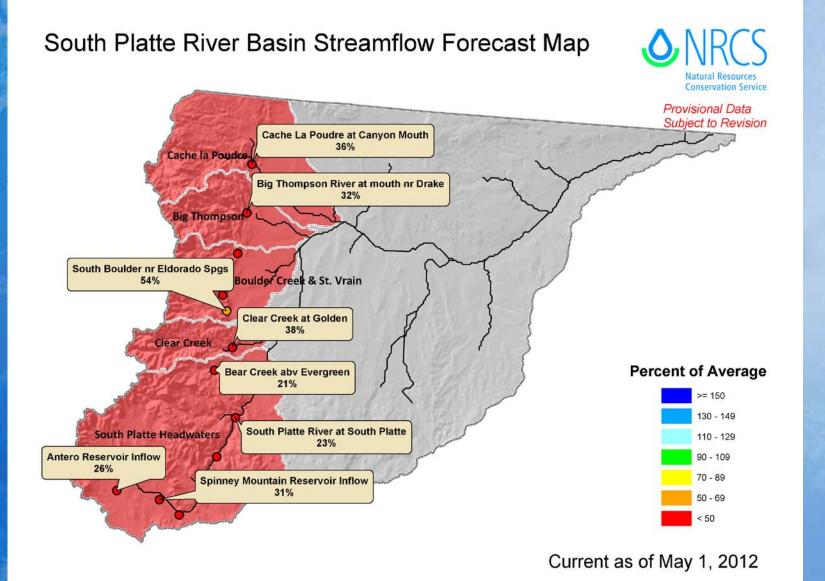




South Platte River Basin Reservoir Storage Map

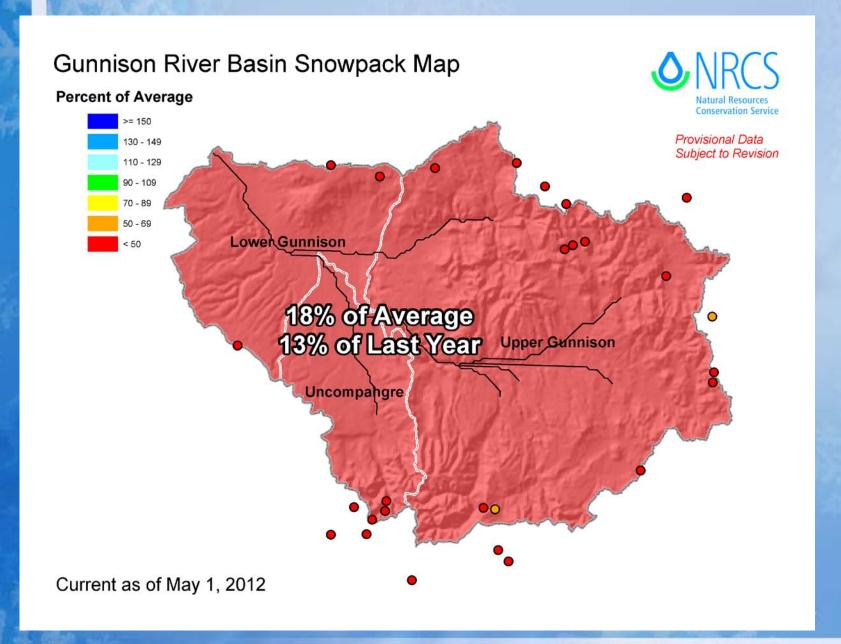




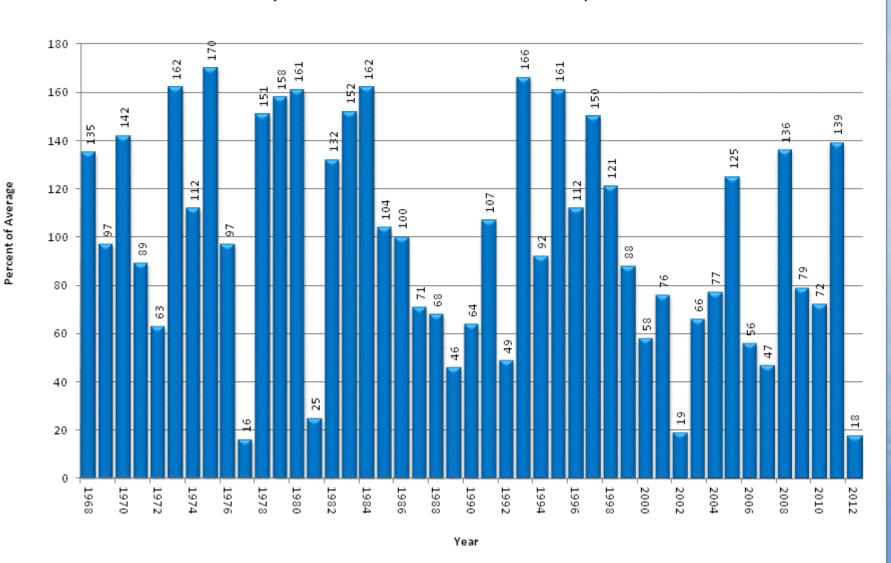


Gunnison River Basin Summary

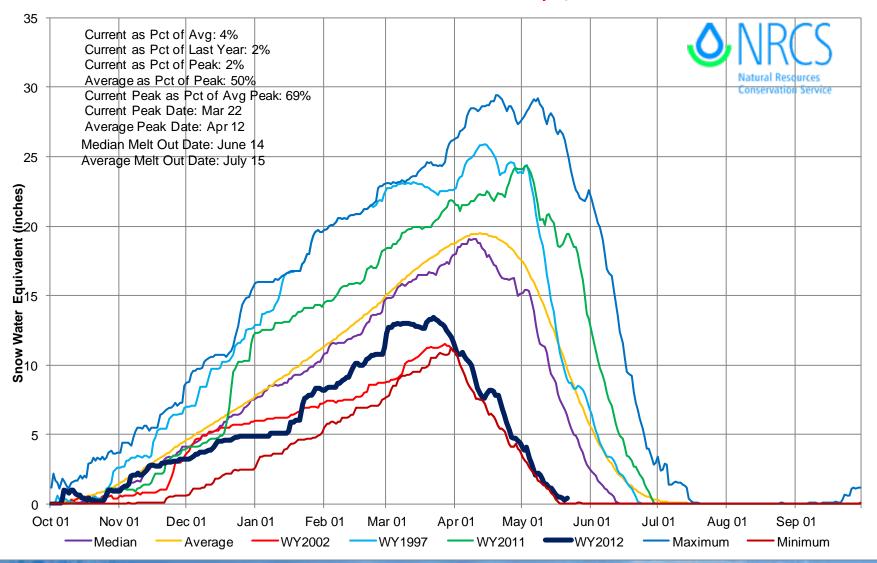




May 1 Total Gunnison River Basin Snowpack

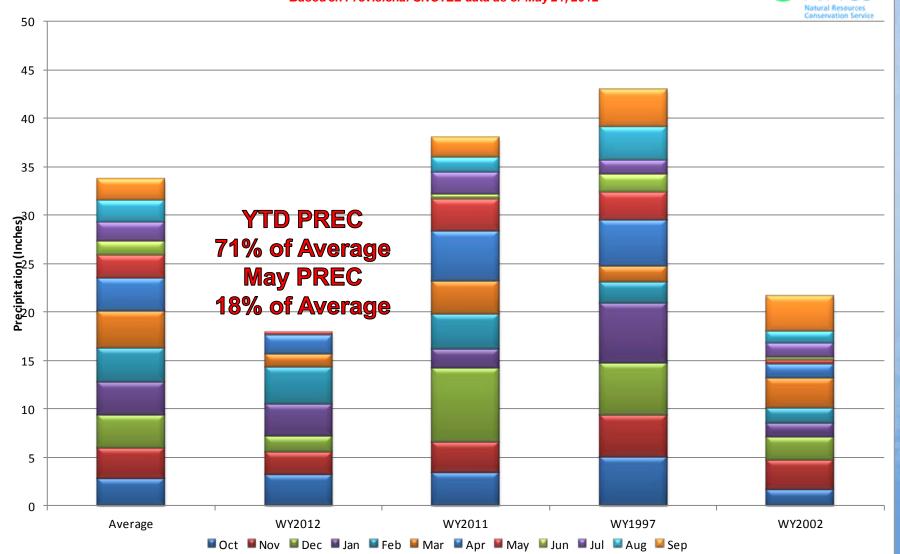


Gunnison River Basin High/Low Snowpack Summary



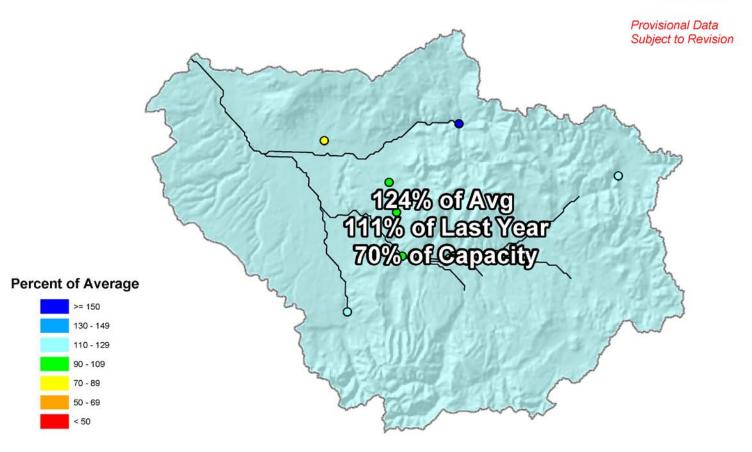
Gunnison River Basin High/Low Monthly Precipitation Summary



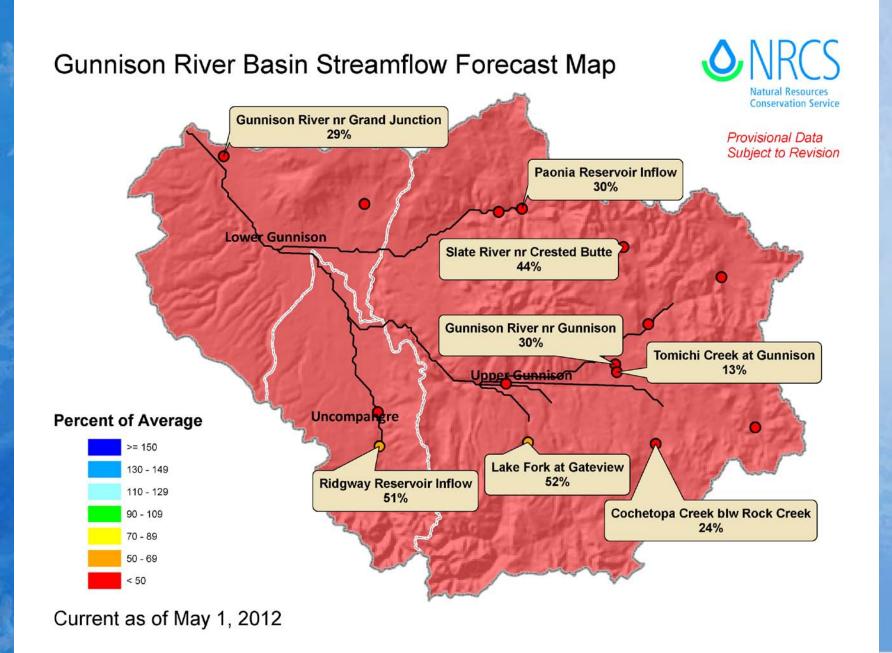


Gunnison River Basin Reservoir Storage Map

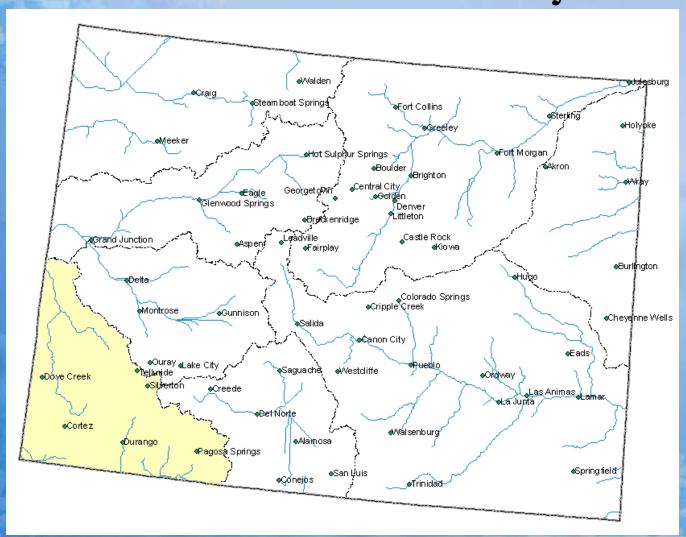




End of April 2012

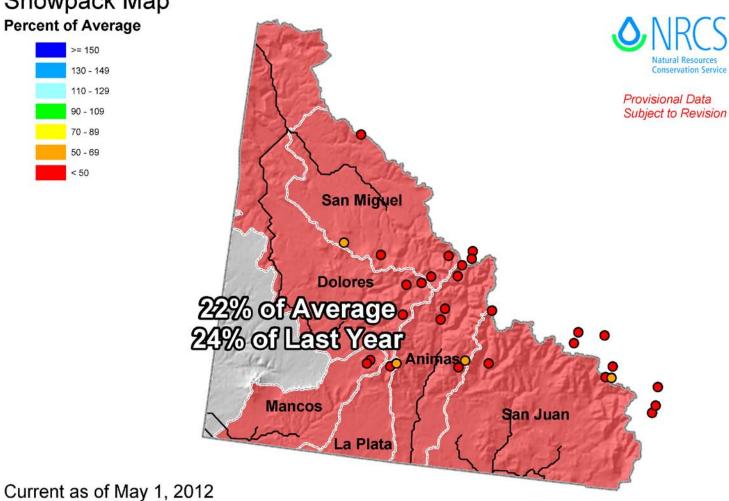


San Miguel, Dolores, Animas & San Juan River Basins Summary

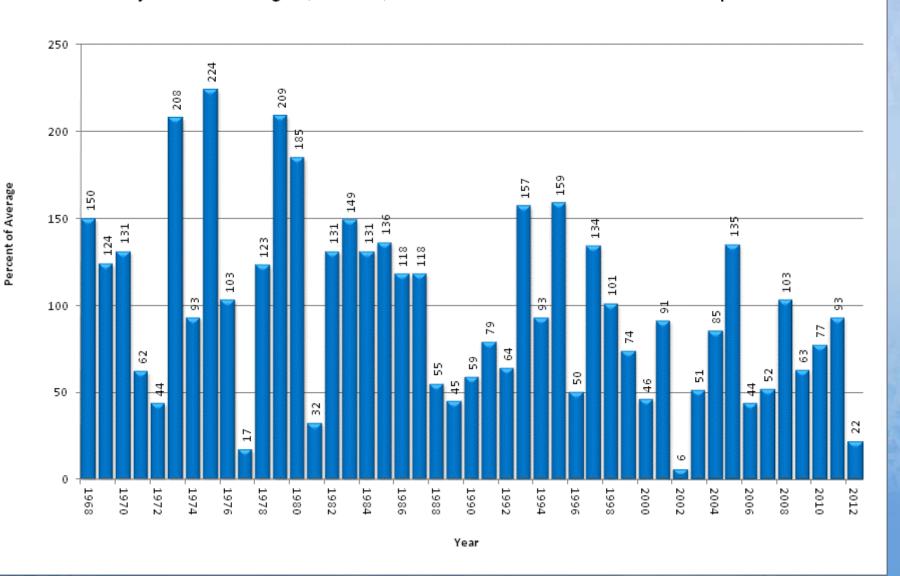


San Miguel, Dolores, Animas and San Juan River Basins

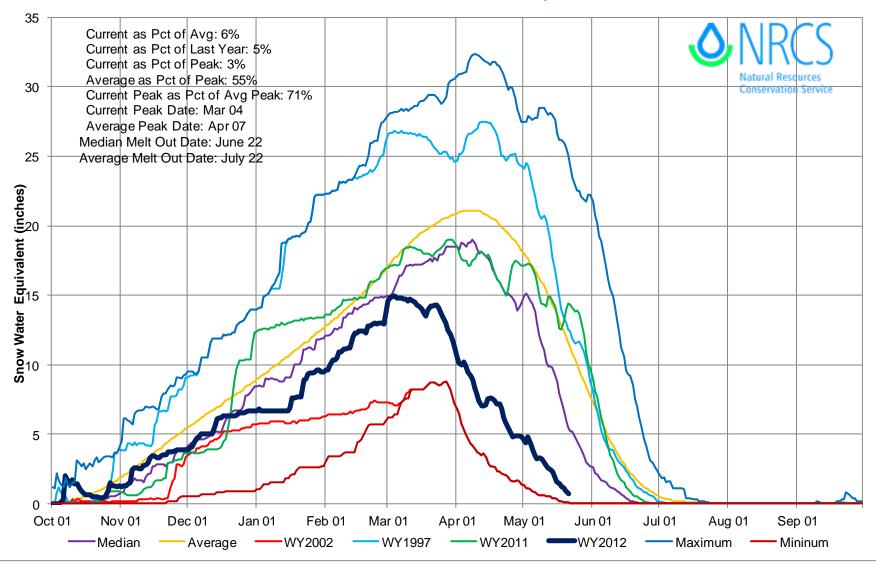
Snowpack Map



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

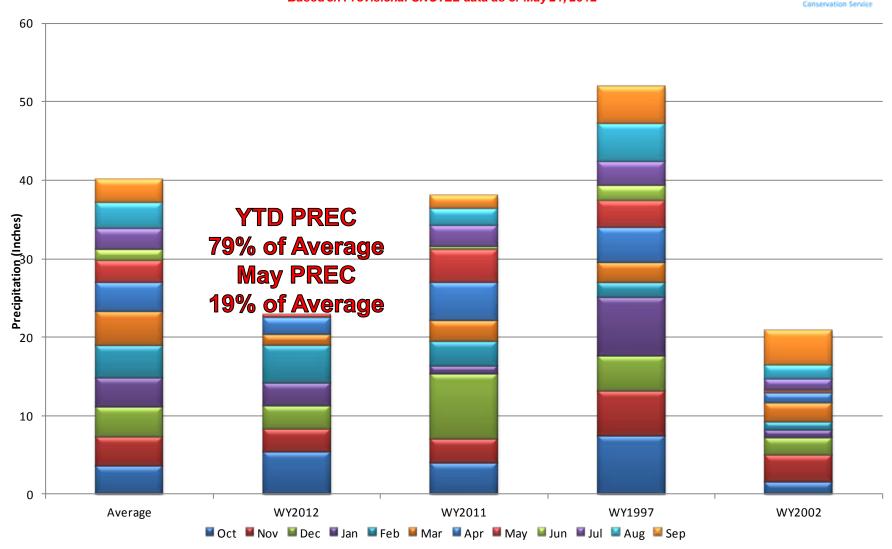


San Miguel, Dolores, Animas & San Juan River Basins High/Low Snowpack Summary



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

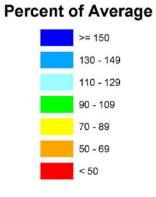
NATURAL Resources
Conservation Service

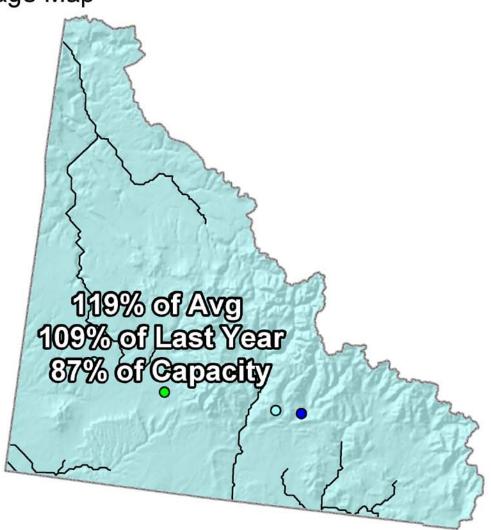


San Miguel, Dolores, Animas and San Juan River Basins Reservoir Storage Map



Provisional Data Subject to Revision



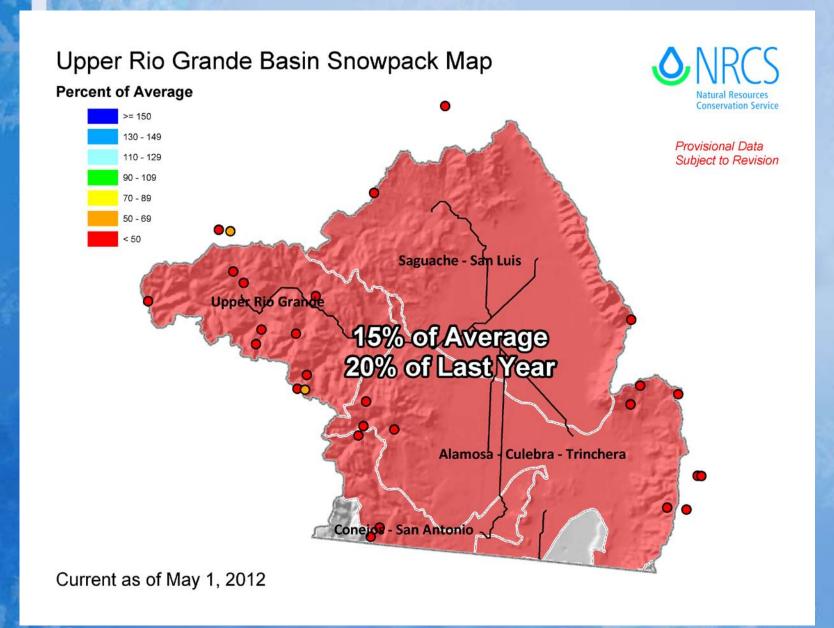


End of April 2012

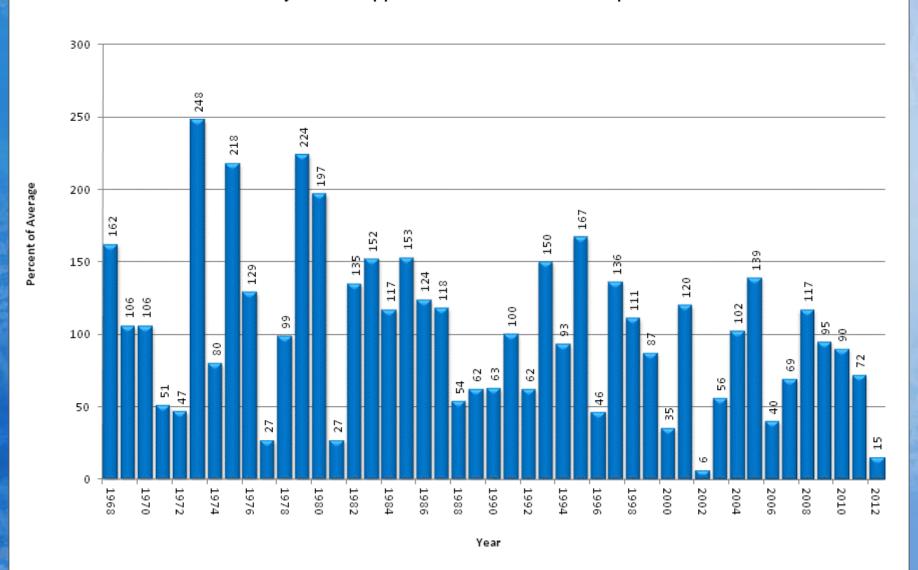
San Miguel, Dolores, Animas and San Juan River Basins, **O**NRCS Streamflow Forecast Map **Percent of Average** >= 150 Dolores 130 - 149 Provisional Data Subject to Revision 110 - 129 90 - 109 70 - 89 50 - 69 < 50 San Miguel Lilylands Reservoir Inlet 48% McPhee Reservoir Inflow Lemon Reservoir Inflow 64% **Dolores River at Dolores** Vallecito Reservoir Inflow 48% Animas Rio Blanco at Blanco Diversion Mancos River nr Mancos La Plata 53% 42% San Juan Mancos Current as of May 1, 2012

Upper Rio Grande Basin Summary

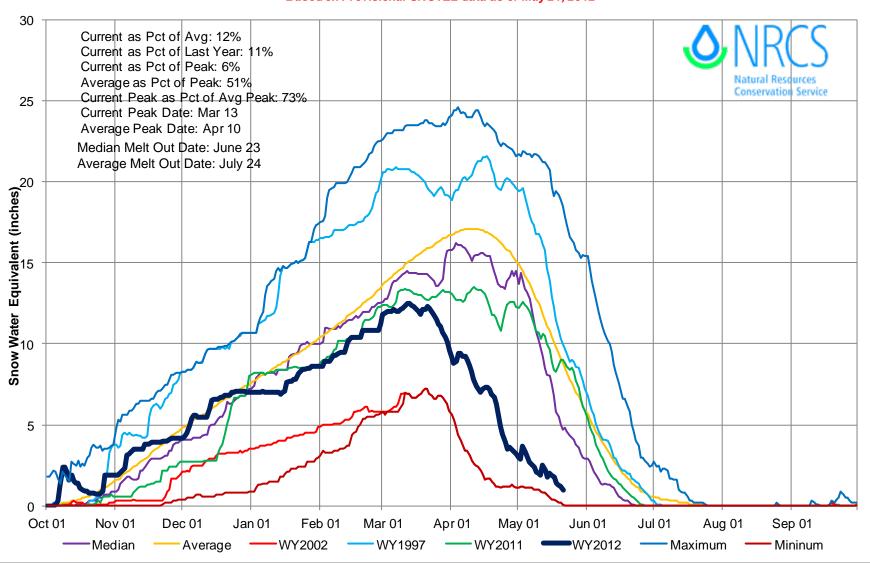




May 1 Total Upper Rio Grande Basin Snowpack

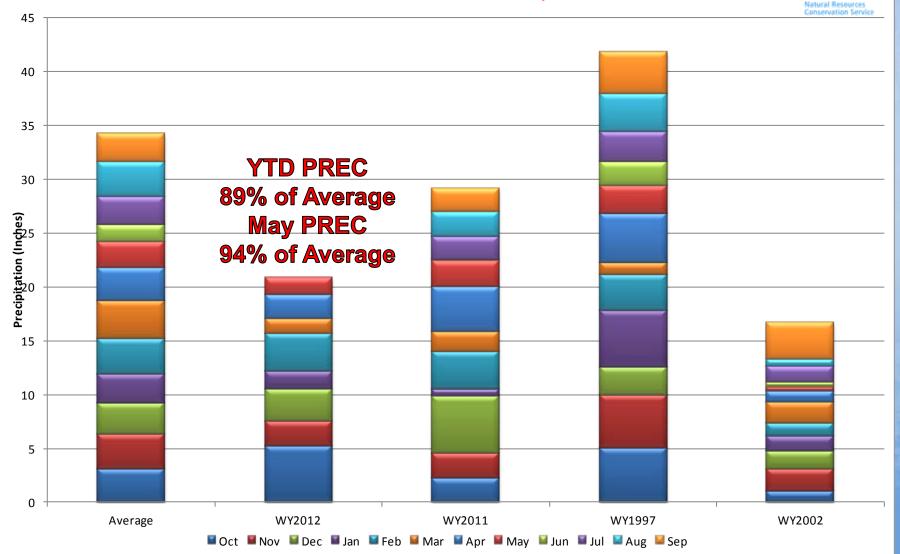


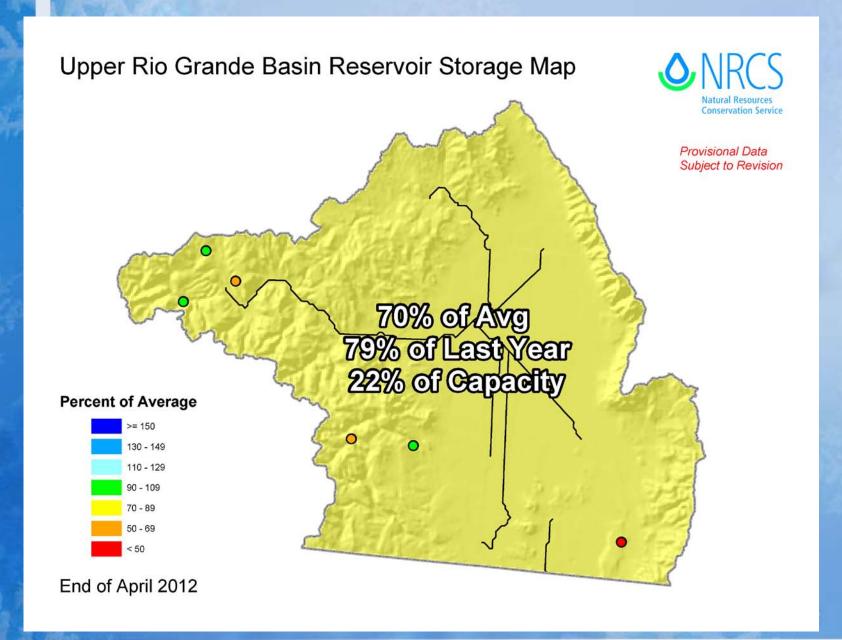
Upper Rio Grande Basin High/Low Snowpack Summary

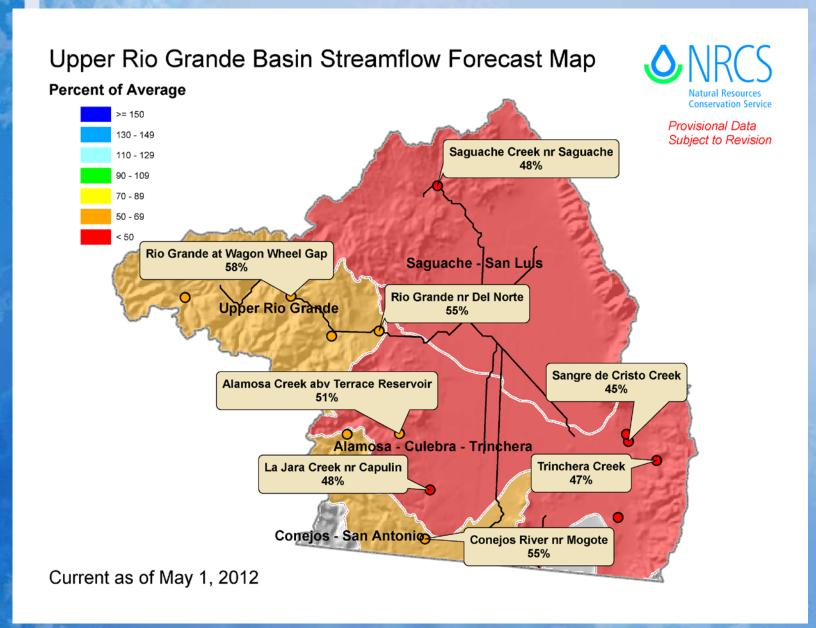


Upper Rio Grande Basin High/Low Monthly Precipitation Summary



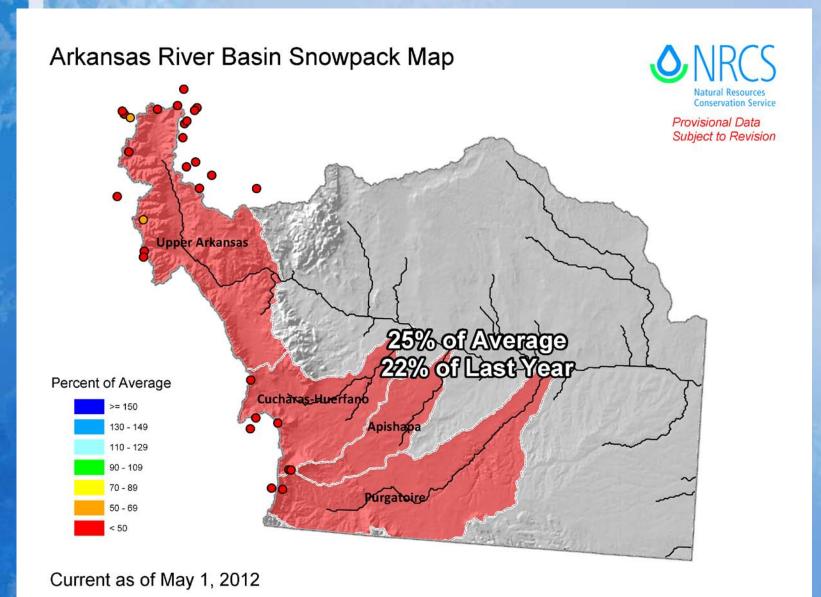




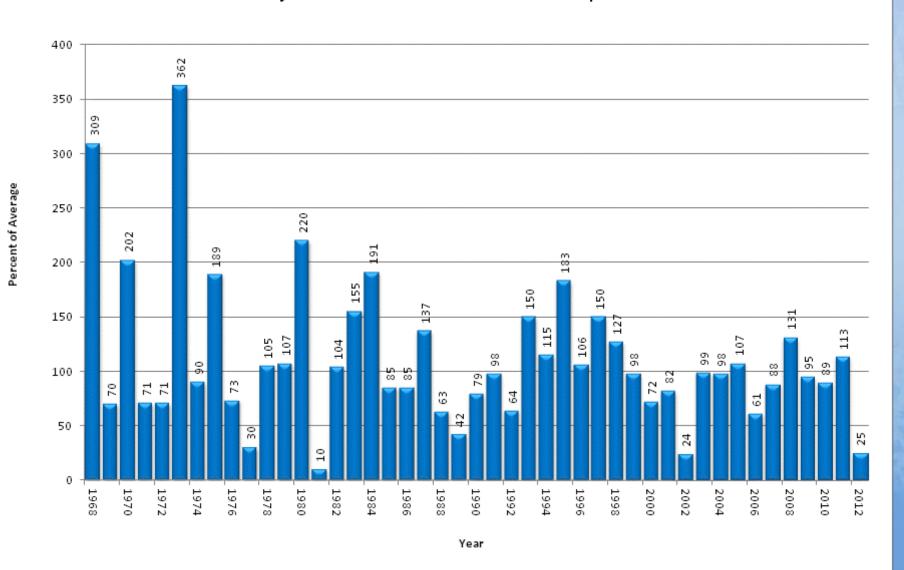


Arkansas River Basin Summary

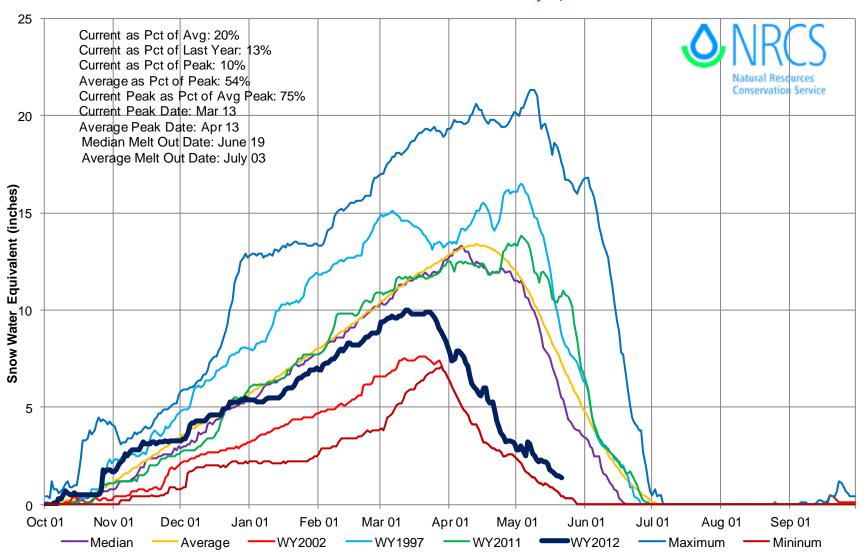




May 1 Total Arkansas River Basin Snowpack

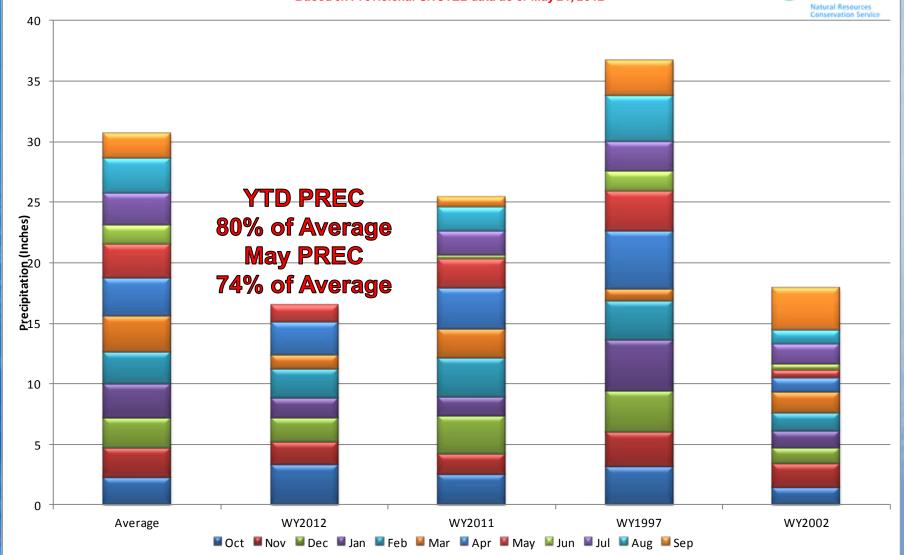


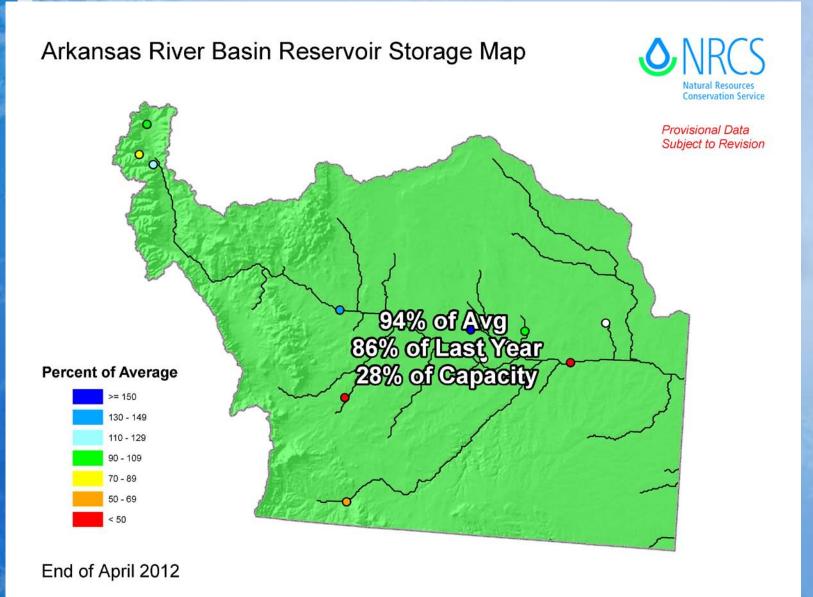
Arkansas River Basin High/Low Snowpack Summary

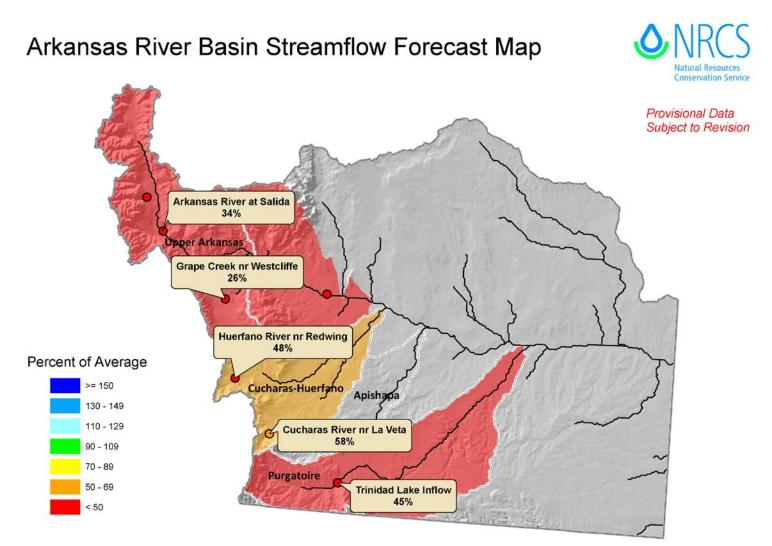


Arkansas River Basin High/Low Monthly Precipitation Summary

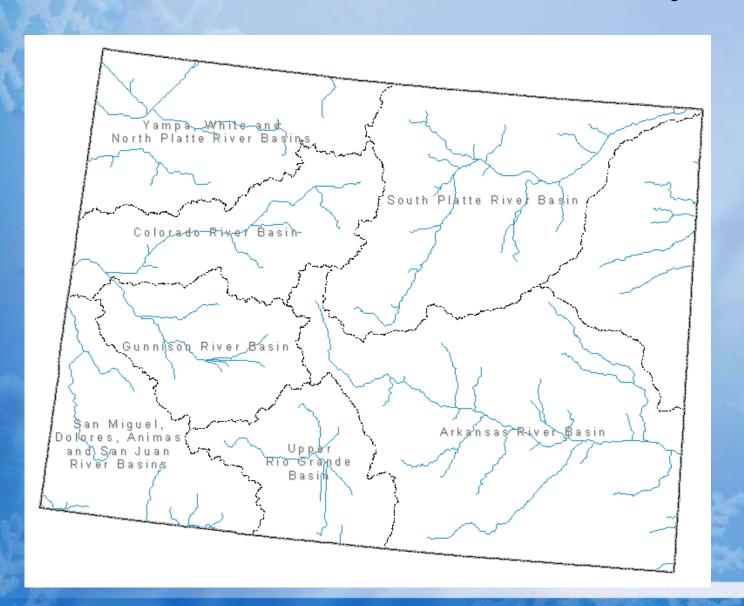






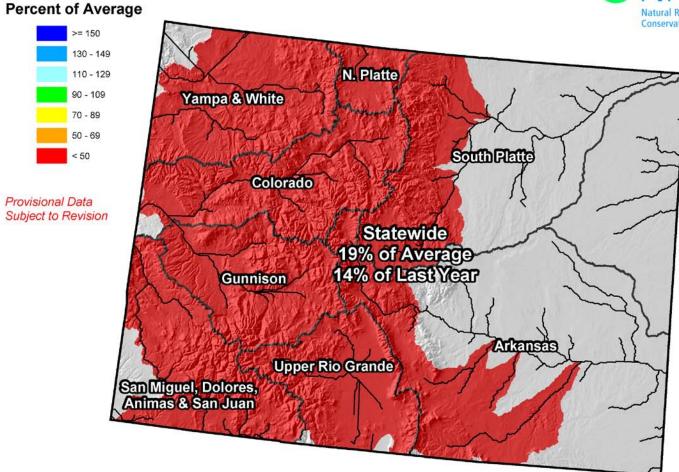


Colorado Statewide Summary

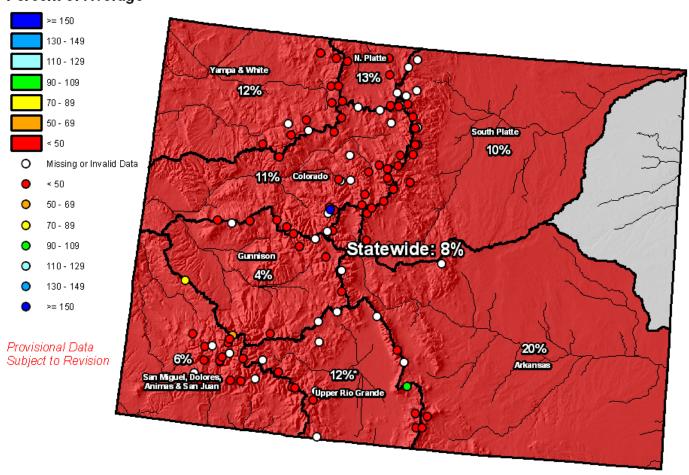


Colorado Snowpack Map





Colorado SNOTEL Snowpack Update Map with Site Data Percent of Average

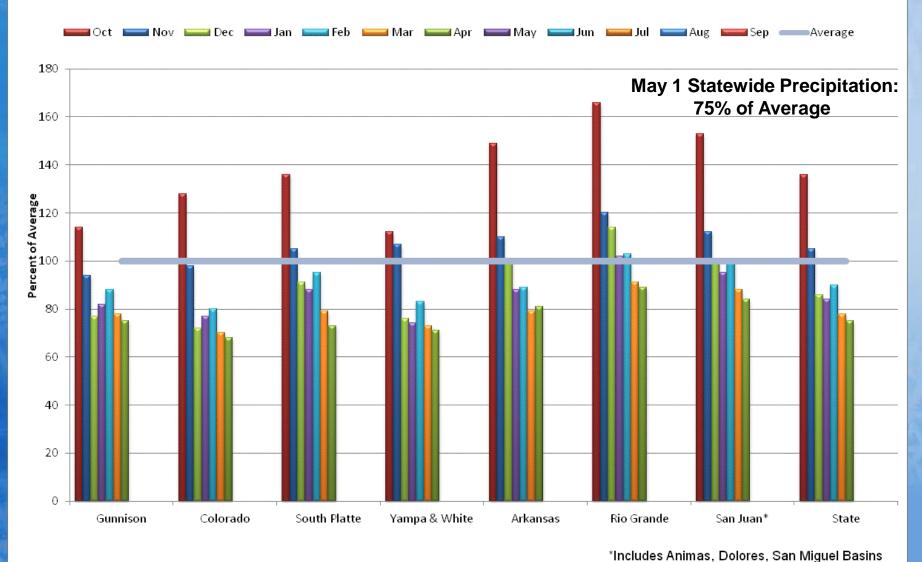


Current as of May 21, 2012

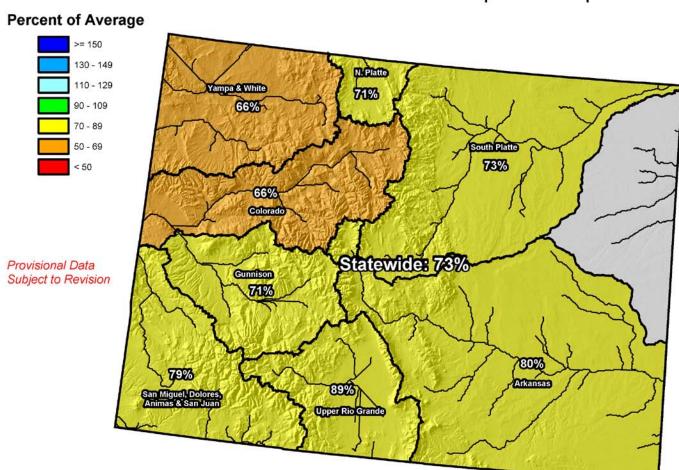
*Data may not provide a valid measure of conditions

Colorado Year-to-Date Precipitation Summary for WY2012

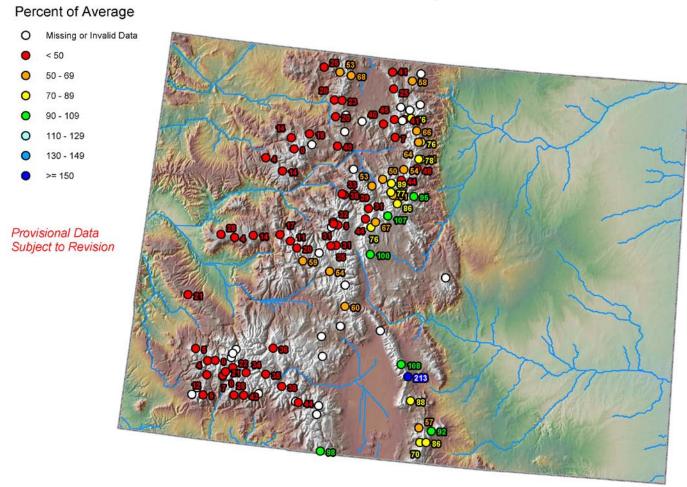
USDA Natural Resources Conservation Service



Colorado SNOTEL Water Year-to-Date Precipitation Update Map

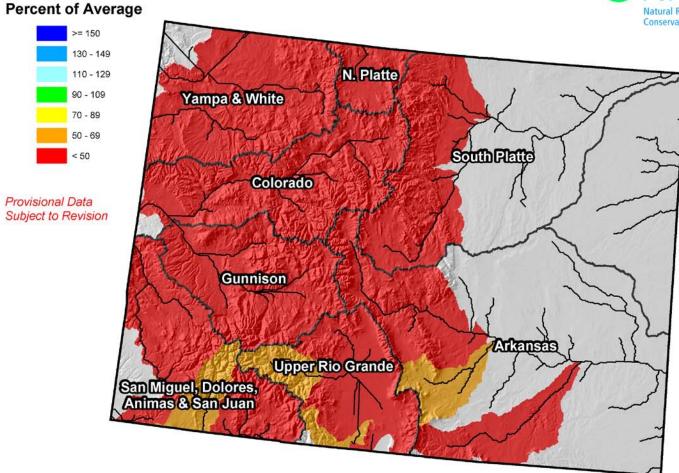


Colorado SNOTEL Month-to-Date Precipitation



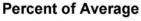
Colorado Streamflow Forecast Map

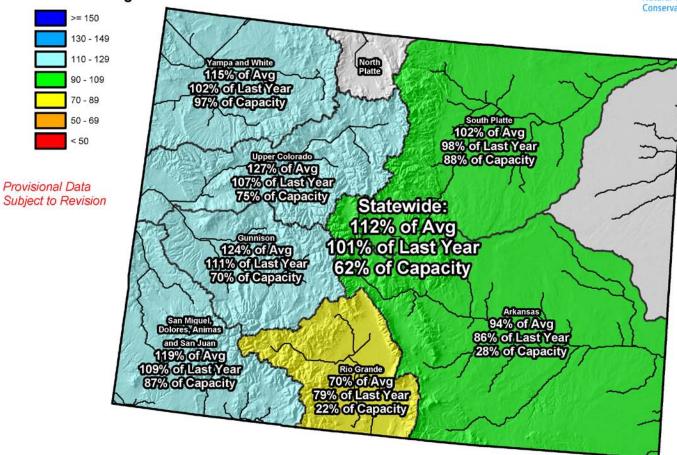




Colorado Reservoir Storage Map



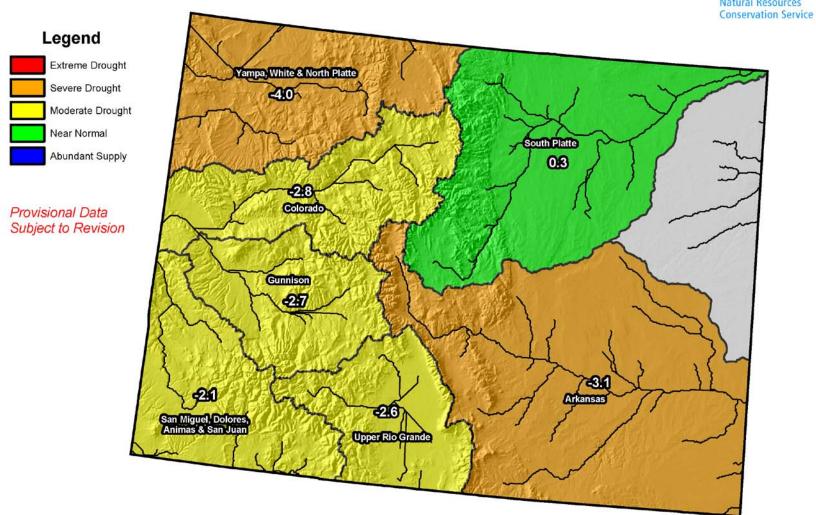


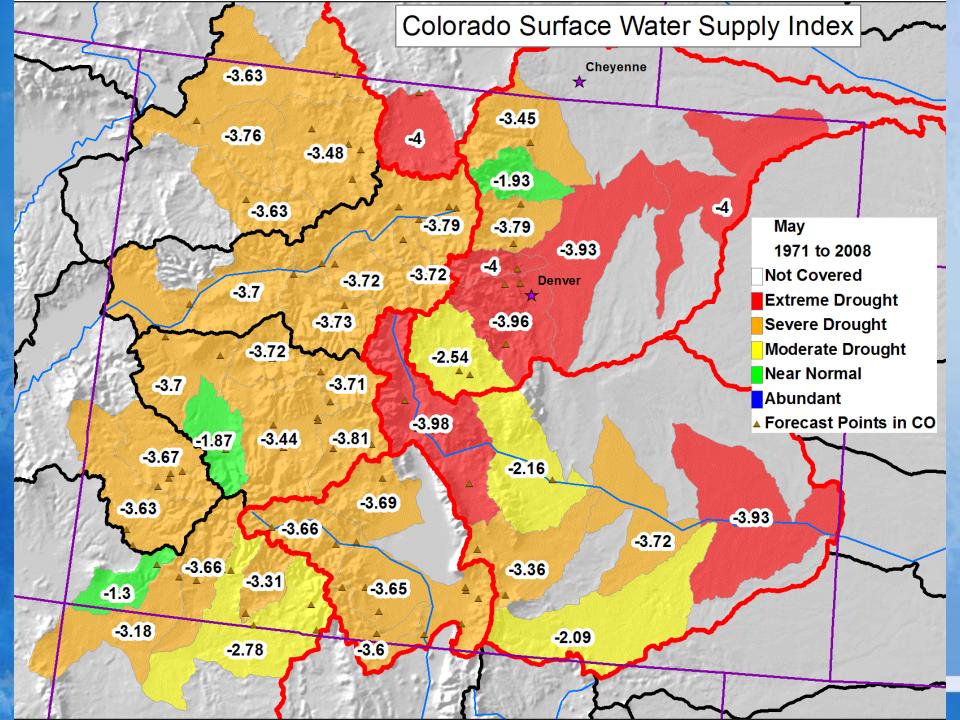


End of April 2012

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 Below average precipitation across the state. Streamflow forecasts across the state dropped 20 50 percent from those issued on March 1. Yampa, White, and Colorado basins are fairing the worst with snowpack's below 50% of average.
- May –Many basins reported record low snowpack percentages on May 1. Well below average precipitation for the western basins so far this month. South Platte and Arkansas still below average but not as bad and prec for the Upper Rio is near average. Streamflow forecasts across the state have dropped for the second month; 5 15 percent on average from those issued on April 1. The South Platte forecasts took the biggest hit and are on average 25 percent lower this month.