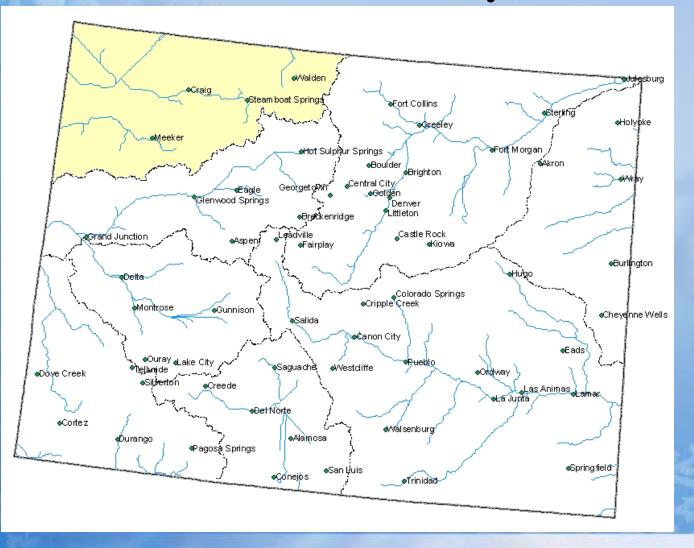
NRCS – Snow Survey & Water Supply Forecasting

Mage Hultstrand

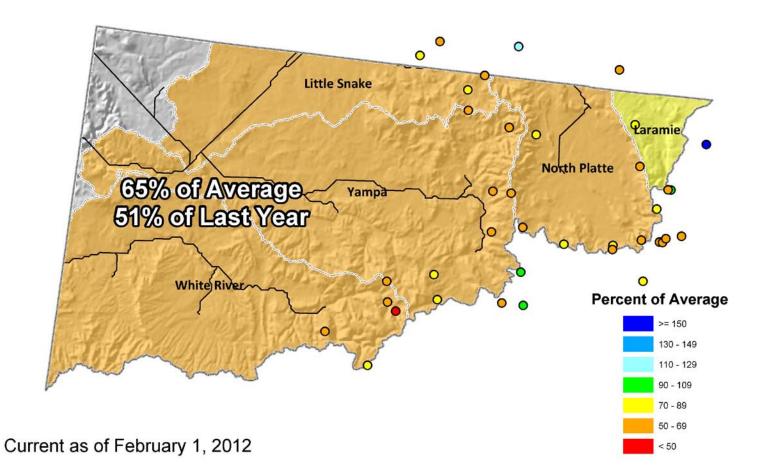
Water Availability Task Force Meeting February 16, 2012

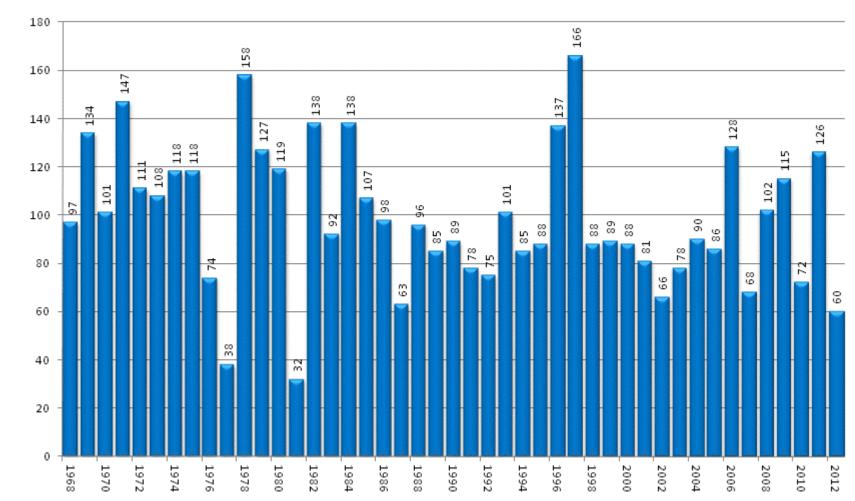
Yampa, White & North Platte River Basins Summary



Yampa, White and North Platte River Basins Snowpack Map

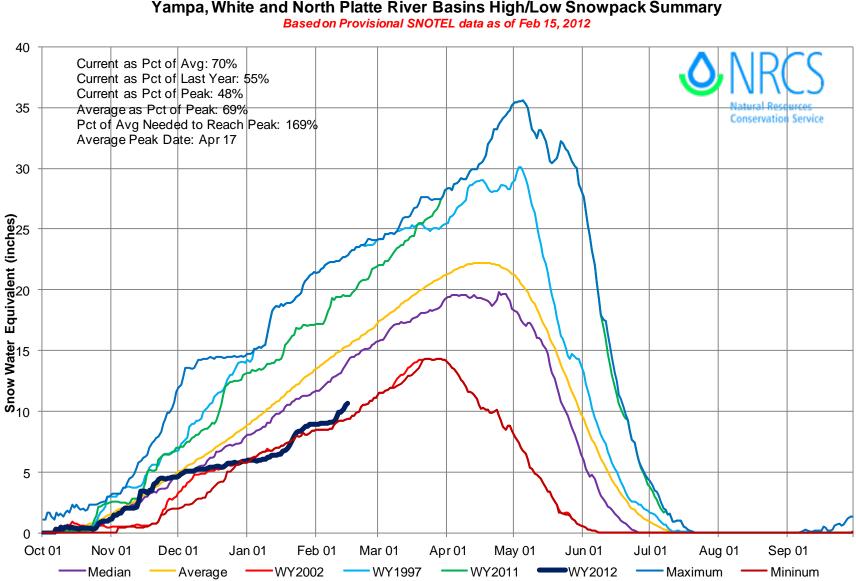
Provisional Data Subject to Revision



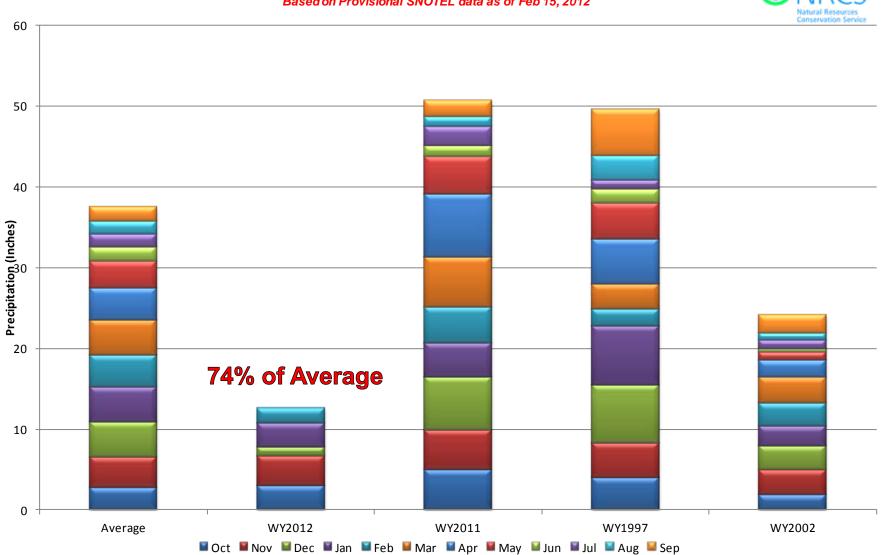


February 1 Total Yampa & White River Basins Snowpack

Year



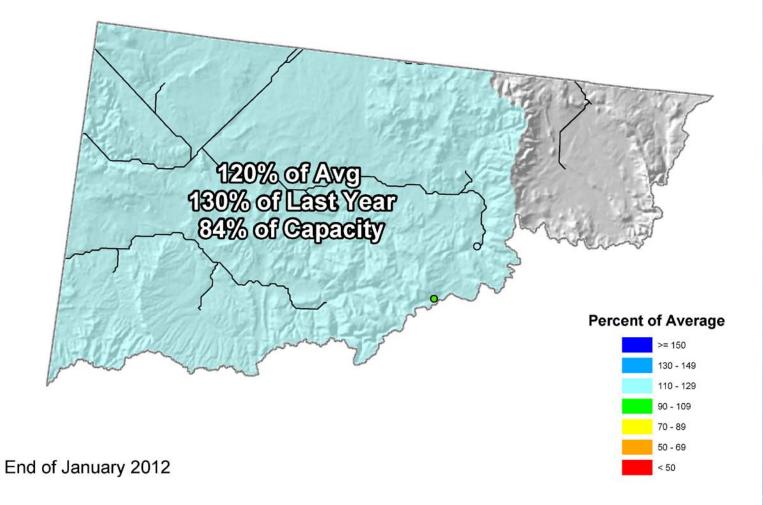
Yampa, White and North Platte River Basins High/Low Snowpack Summary



Yampa and White River Basins High/Low Monthly Precipitation Summary Based on Provisional SNOTEL data as of Feb 15, 2012

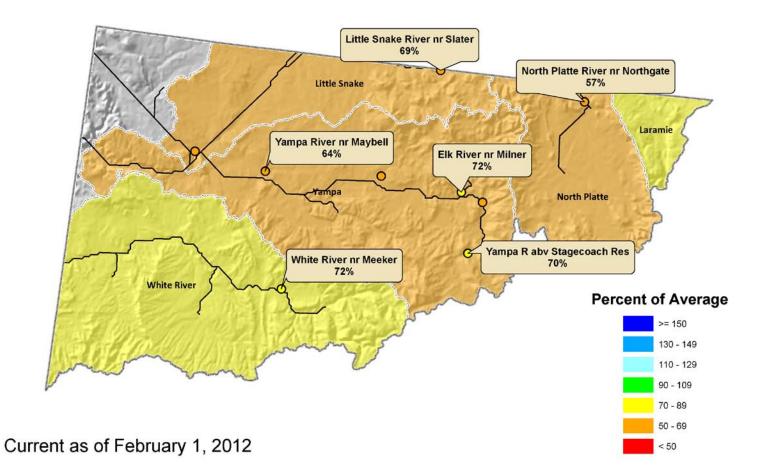
Yampa & White River Basins Reservoir Storage Map

Provisional Data Subject to Revision

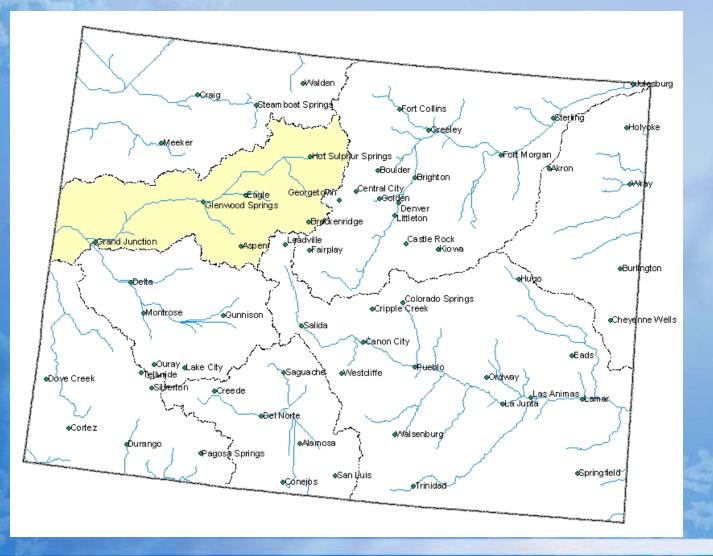


Yampa, White and North Platte River Basins Streamflow Map

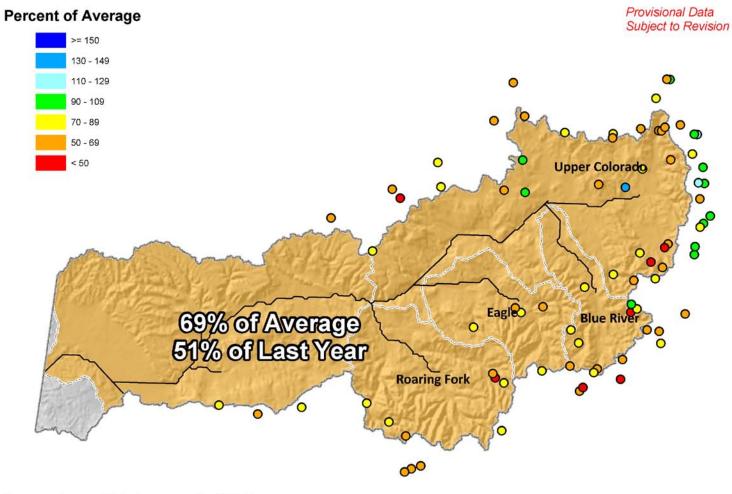
Provisional Data Subject to Revision



Colorado River Basin Summary

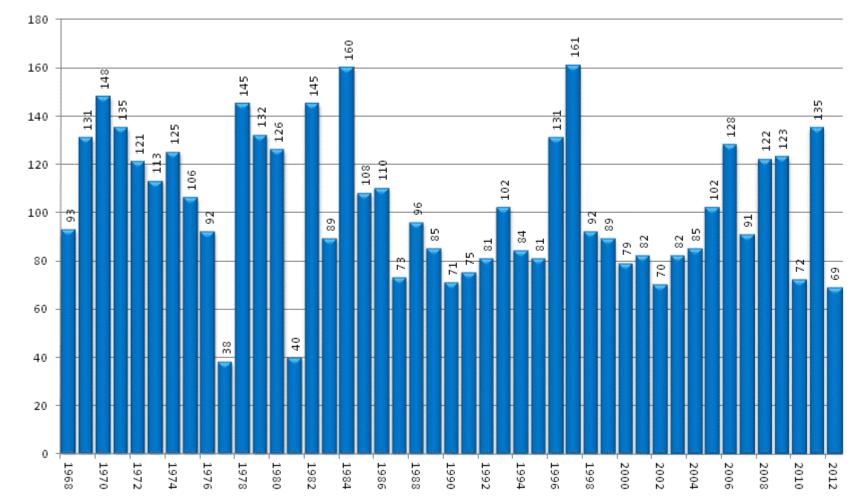


Colorado River Basin Snowpack Map



Current as of February 1, 2012

February 1 Total Colorado River Basin Snowpack

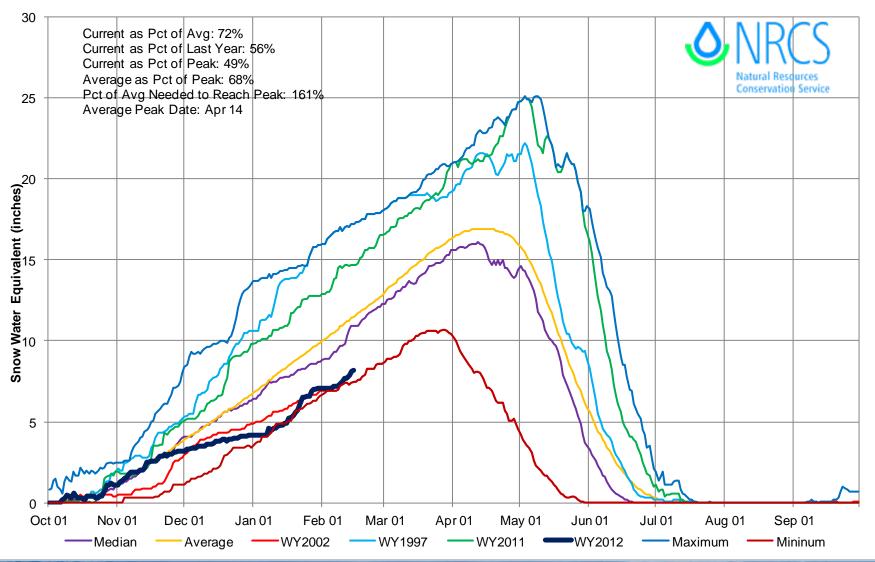


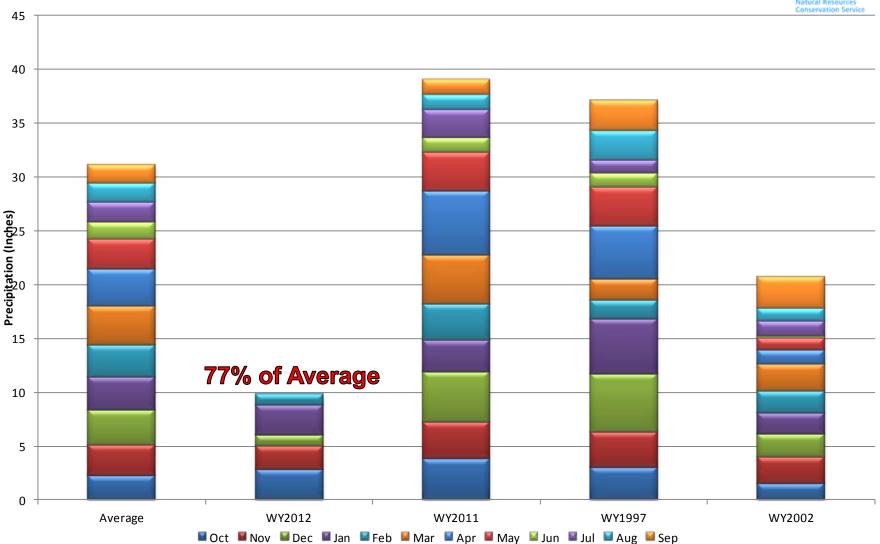
Percent of Average

Year

Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 15, 2012

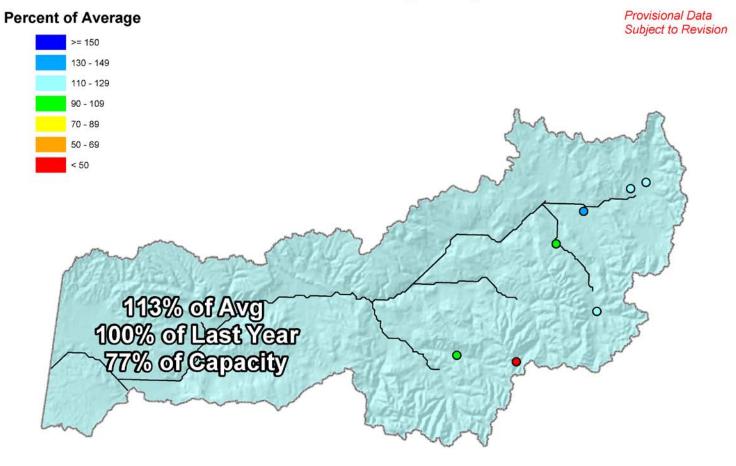




Upper Colorado River Basin High/Low Monthly Precipitation Summary Based on Provisional SNOTEL data as of Feb 15, 2012

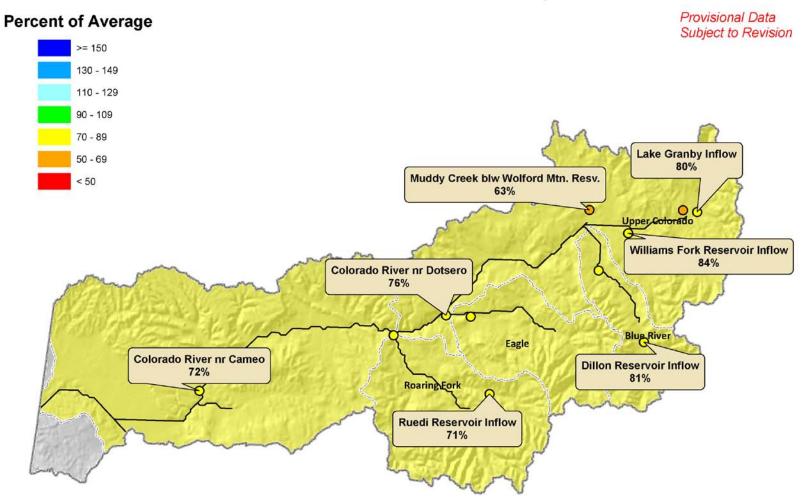


Colorado River Basin Reservoir Storage Map



End of January 2012

Colorado River Basin Streamflow Forecast Map



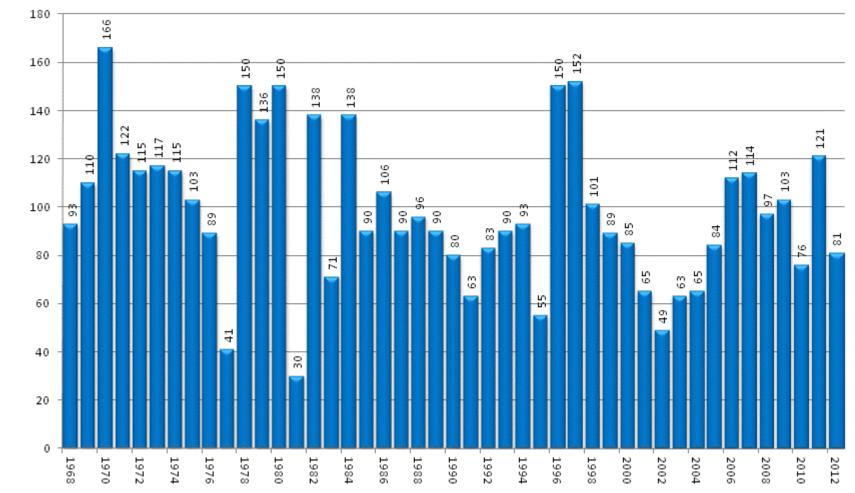
Current as of February 1, 2012

South Platte River Basin Summary



South Platte River Basin Snowpack Map

Provisional Data **Percent of Average** Subject to Revision >= 150 130 - 149 110 - 129 90 - 109 0 Gache la Poudre 70 - 89 50 - 69 < 50 Big Thompson Boulder Creek & St. Vrain 0 **Clear Creek** 80% of Average 66% of Last Year Ο 0 South Platte Headwaters 00 Current as of February 1, 2012

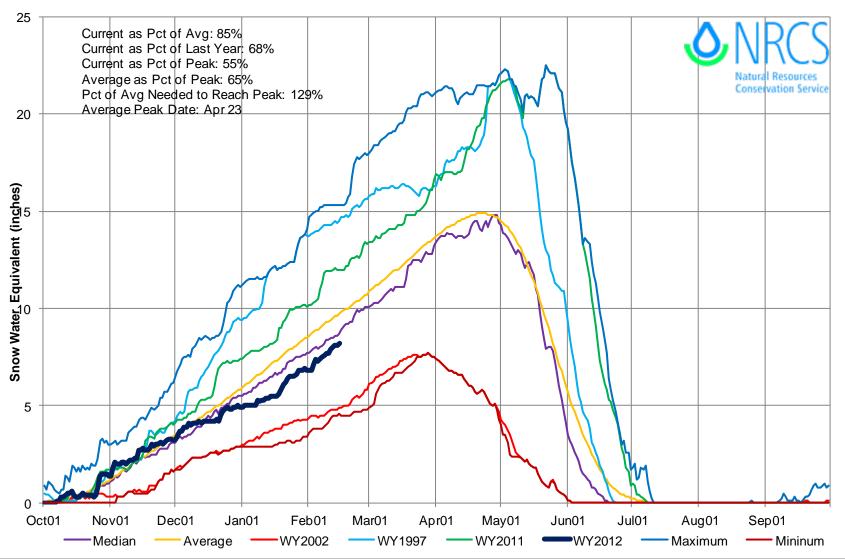


February 1 Total South Platte River Basin Snowpack

Year

South Platte River Basin High/Low Snowpack Summary

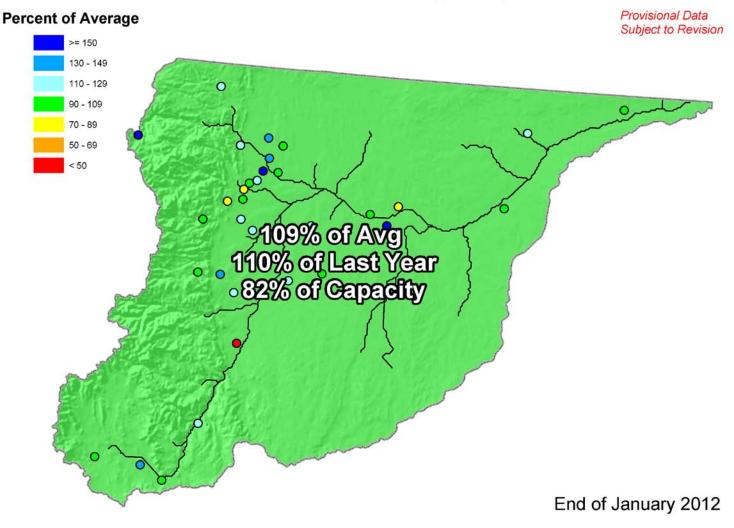
Based on Provisional SNOTEL data as of Feb 15, 2012



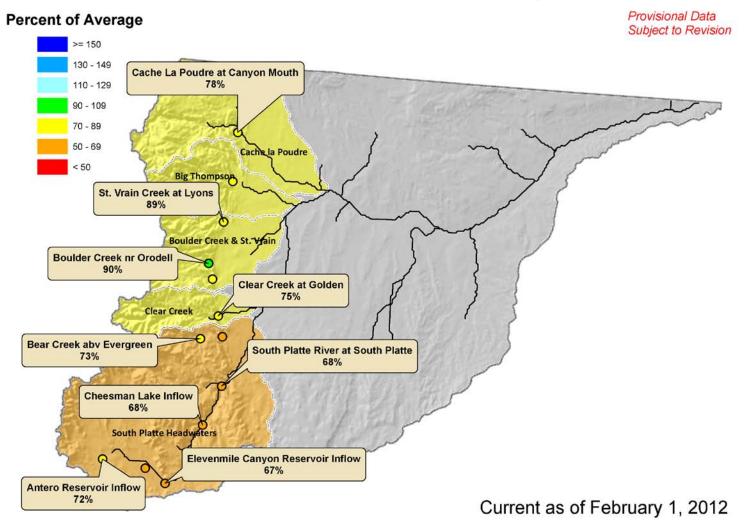
NRCS 45 40 35 30 Precipitation (Inches) 15 92% of Average 10 5 0 WY2012 WY2011 Average WY1997 WY2002 Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

South Platte River Basin High/Low Monthly Precipitation Summary Based on Provisional SNOTEL data as of Feb 15, 2012

South Platte River Basin Reservoir Storage Map



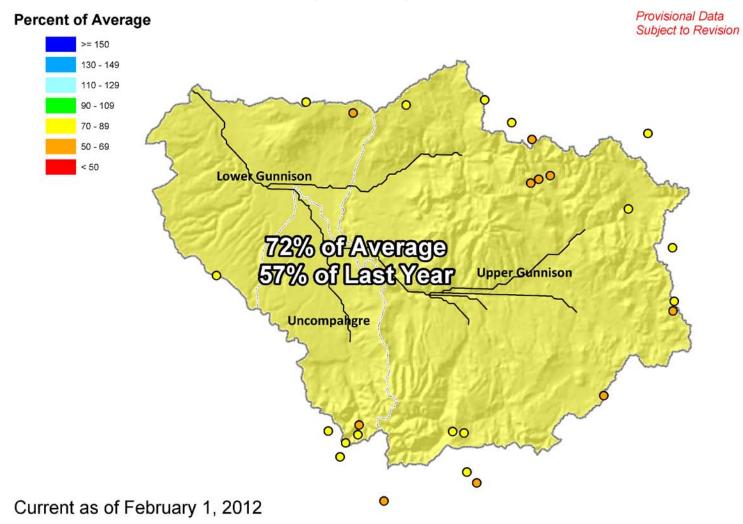
South Platte River Basin Streamflow Forecast Map



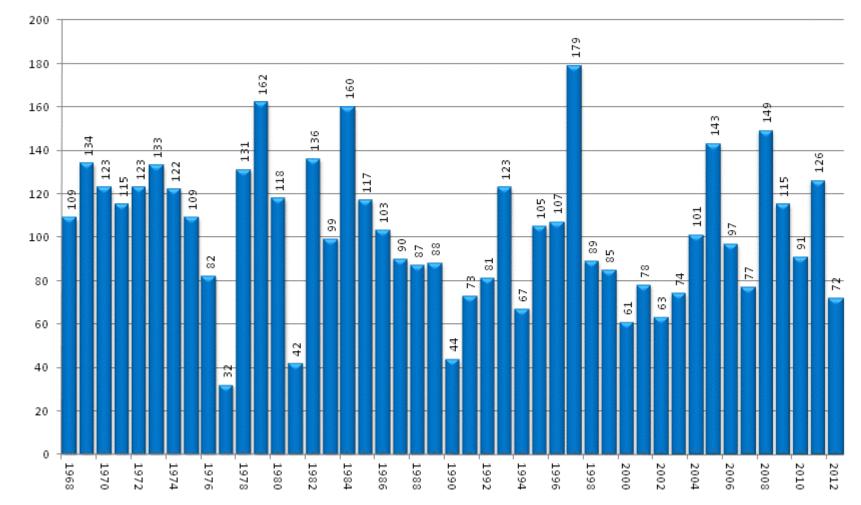
Gunnison River Basin Summary



Gunnison River Basin Snowpack Map



February 1 Total Gunnison River Basin Snowpack

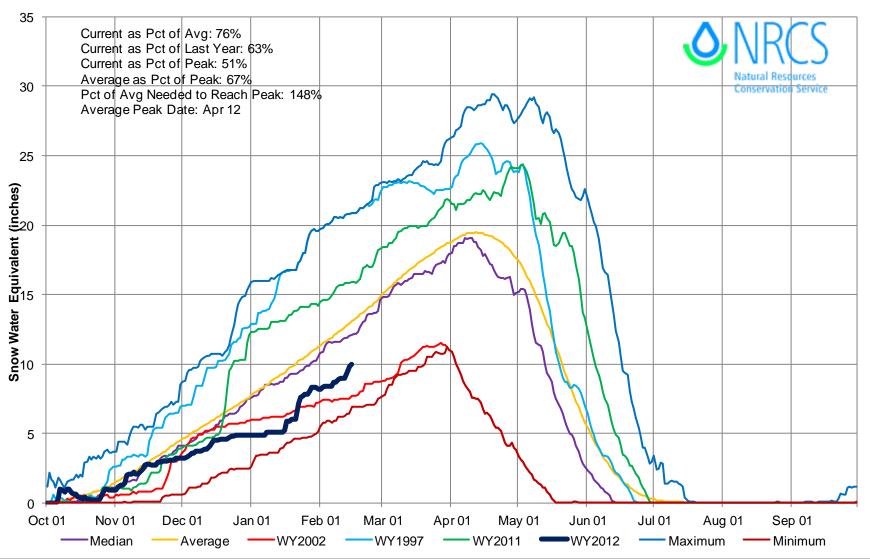


Percent of Average

Year

Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 15, 2012



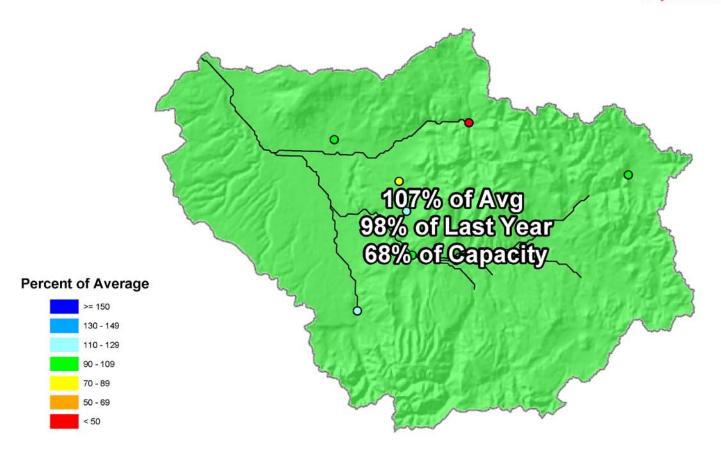
50 45 40 35 Precipitation (Inches) 15 85% of Average 10 5 0 WY2012 WY2011 Average WY1997 WY2002 ■ Oct ■ Nov ■ Dec ■ Jan ■ Feb ■ Mar ■ Apr ■ May ■ Jun ■ Jul ■ Aug ■ Sep

Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 15, 2012

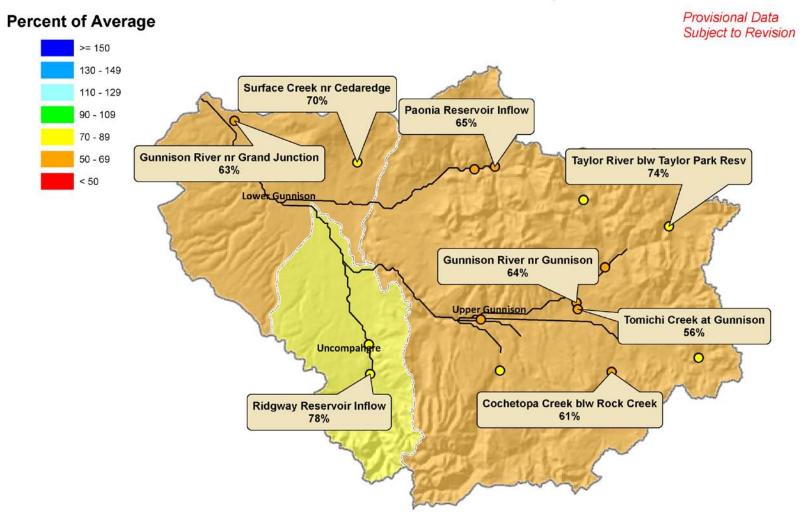
Gunnison River Basin Reservoir Storage Map

Provisional Data Subject to Revision



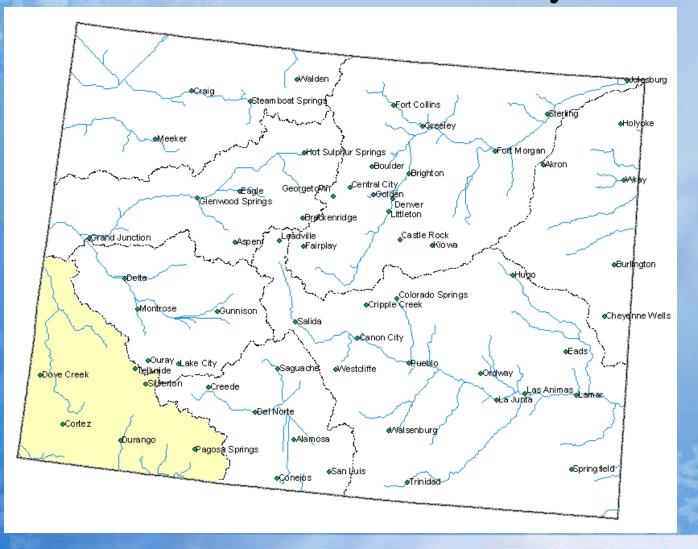
End of January 2012

Gunnison River Basin Streamflow Forecast Map



Current as of February 1, 2012

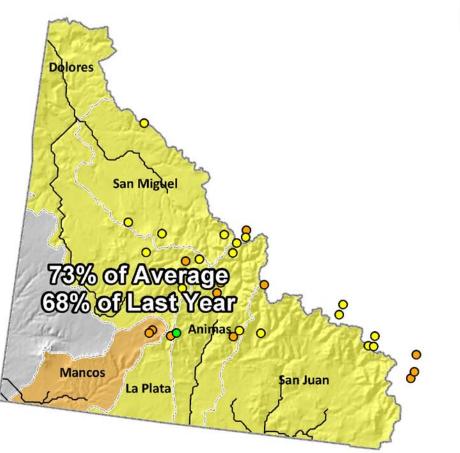
San Miguel, Dolores, Animas & San Juan River Basins Summary



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

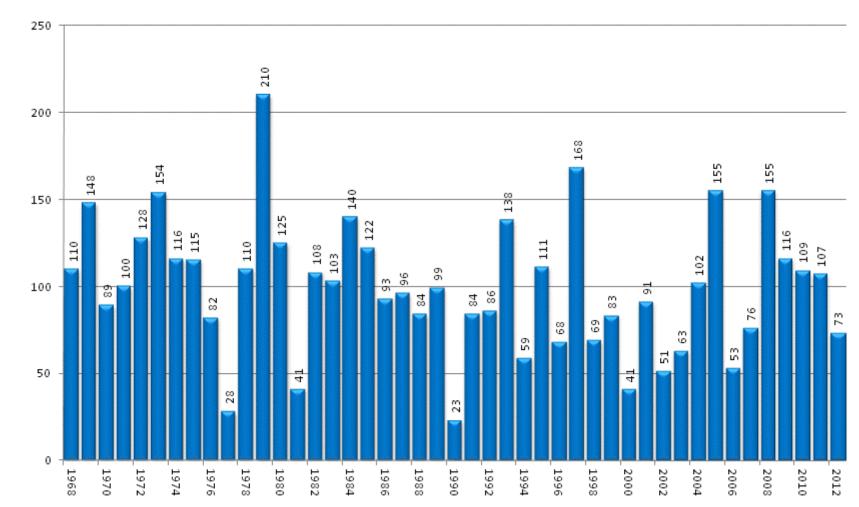
Percent of Average





Provisional Data Subject to Revision

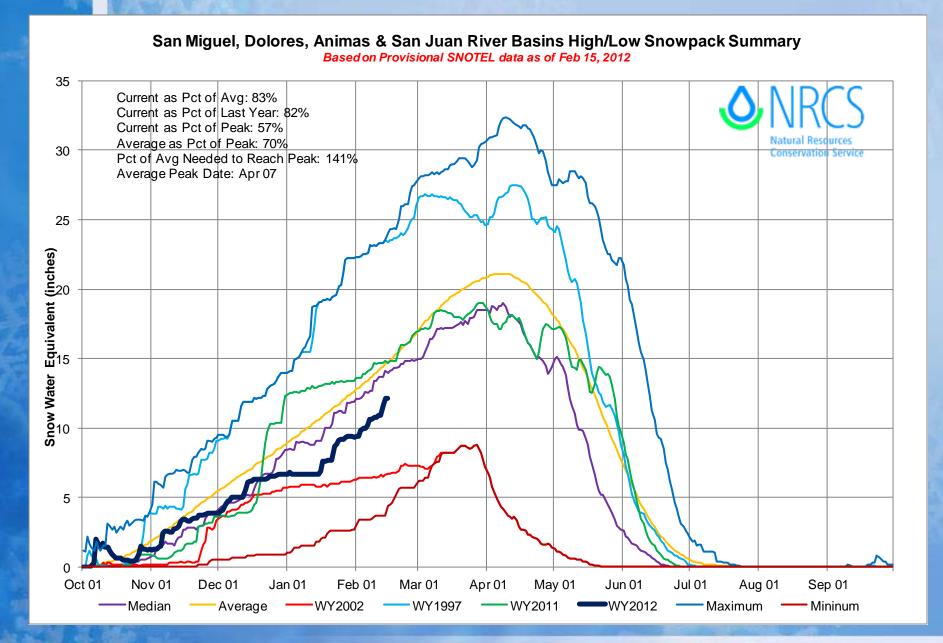
Current as of February 1, 2012

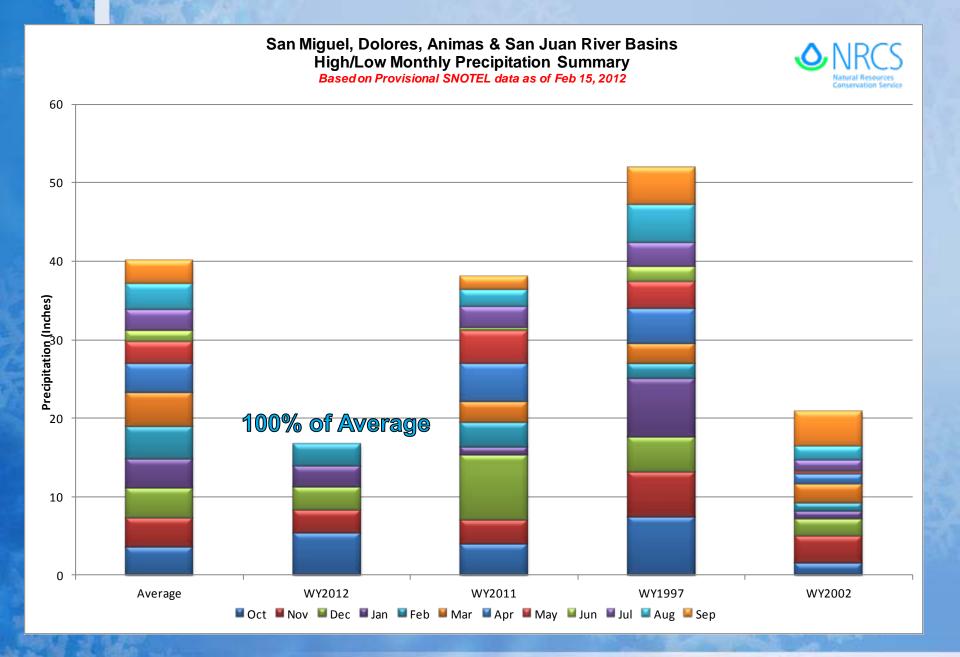


February 1 Total San Miguel, Dolores, Animas & San Juan River Basins Snowpack

Percent of Average

Year

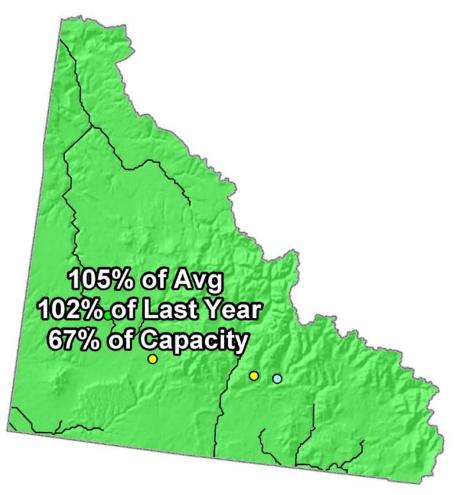




San Miguel, Dolores, Animas and San Juan River Basins Reservoir Storage Map

Percent of Average

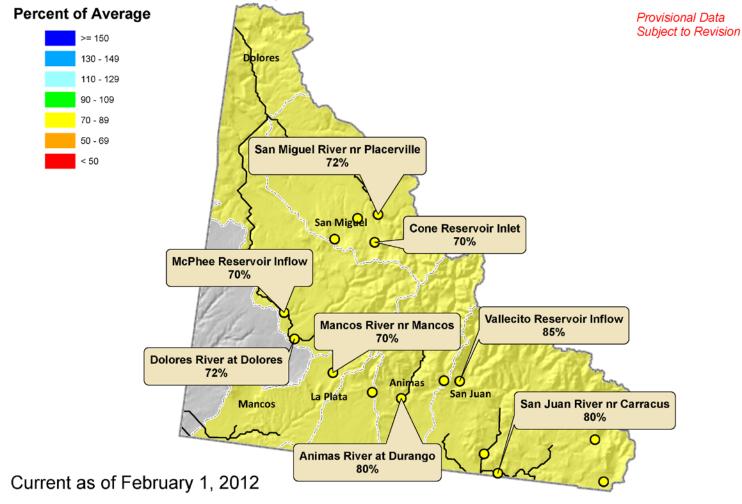




Provisional Data Subject to Revision

End of January 2012

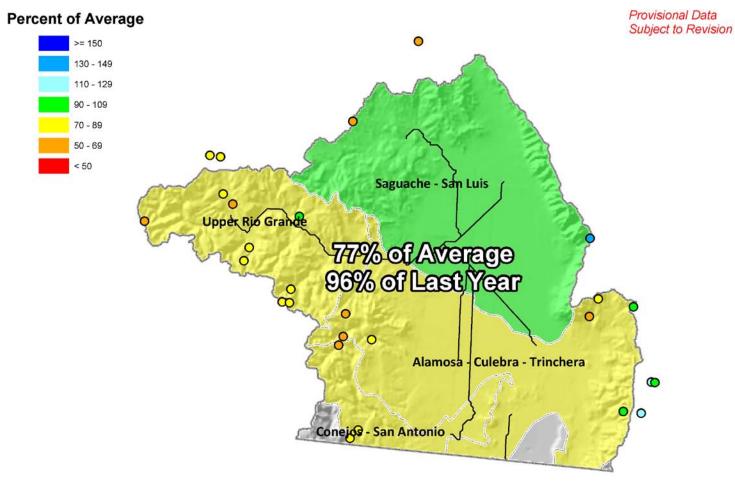
San Miguel, Dolores, Animas and San Juan River Basins Streamflow Forecast Map



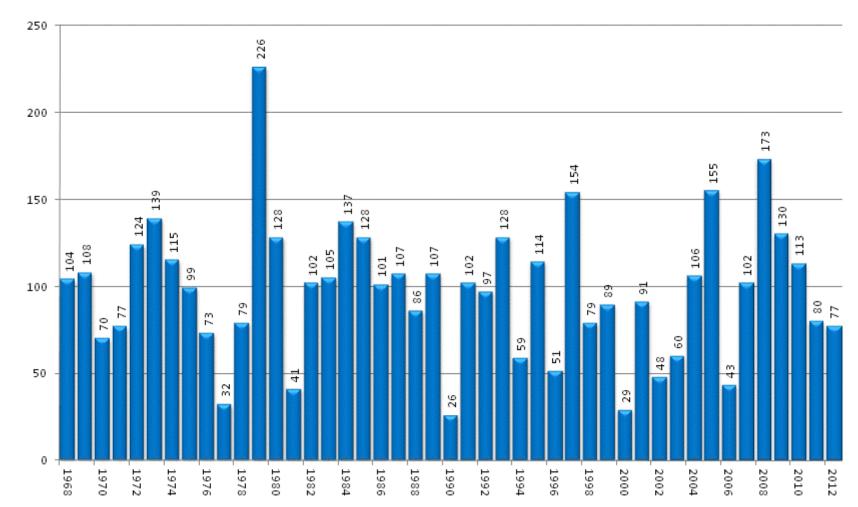
Upper Rio Grande Basin Summary



Upper Rio Grande Basin Snowpack Map



February 1 Total Upper Rio Grande Basin Snowpack

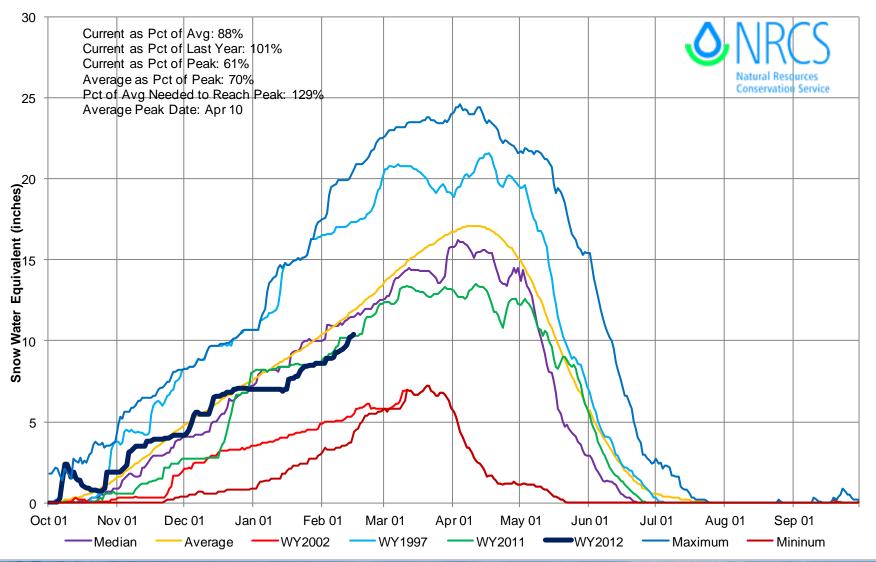


Percent of Average

Year

Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 15, 2012

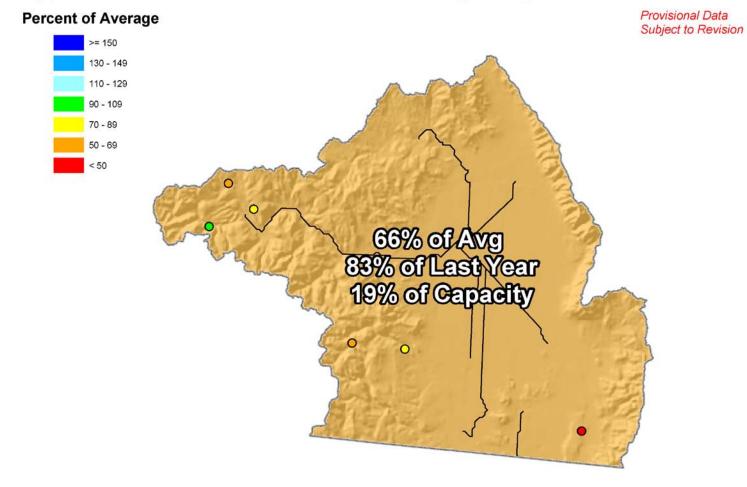


45 40 35 30 Precipitation (Inches) 105% of Average 15 10 5 0 WY2012 WY2011 WY1997 WY2002 Average ■ Oct ■ Nov ■ Dec ■ Jan ■ Feb ■ Mar ■ Apr ■ May ■ Jun ■ Jul ■ Aug ■ Sep

Upper Rio Grande Basin High/Low Monthly Precipitation Summary Based on Provisional SNOTEL data as of Feb 15, 2012

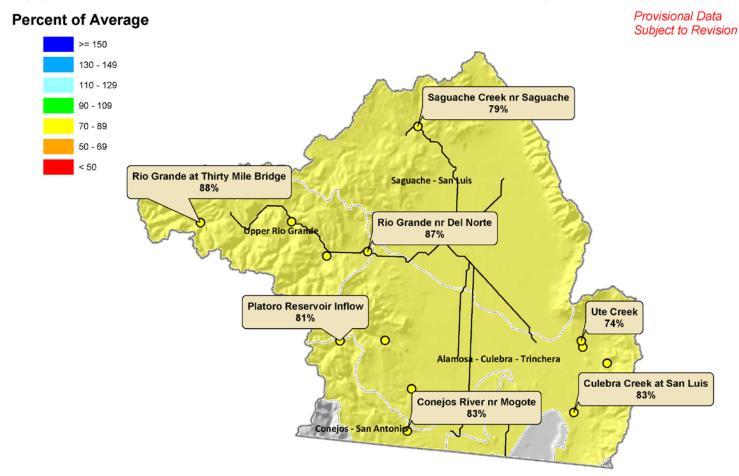


Upper Rio Grande Basin Reservoir Storage Map



End of January 2012

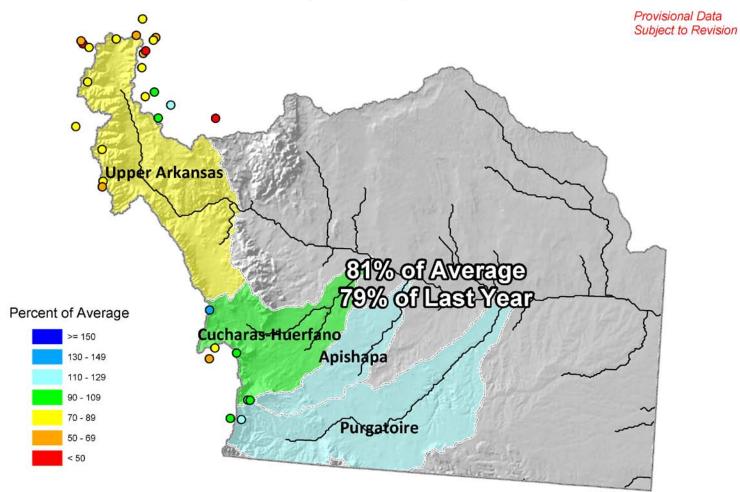
Upper Rio Grande Basin Streamflow Forecast Map



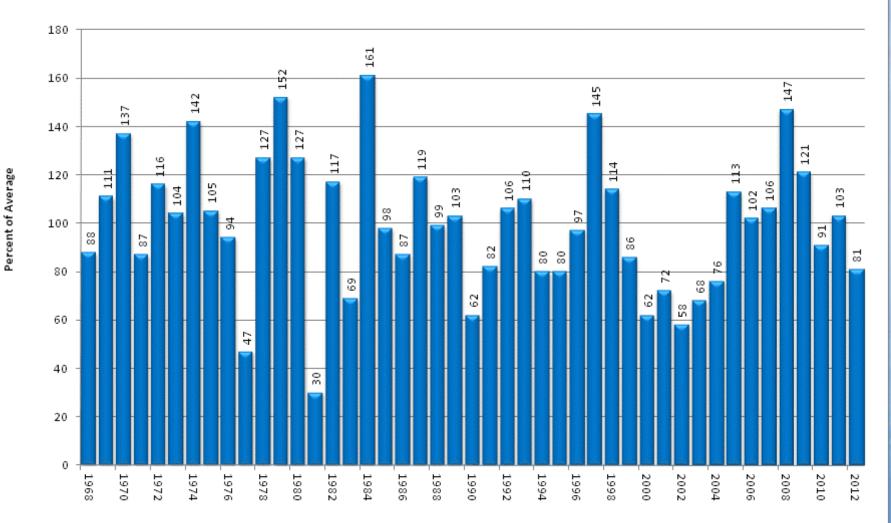
Arkansas River Basin Summary



Arkansas River Basin Snowpack Map



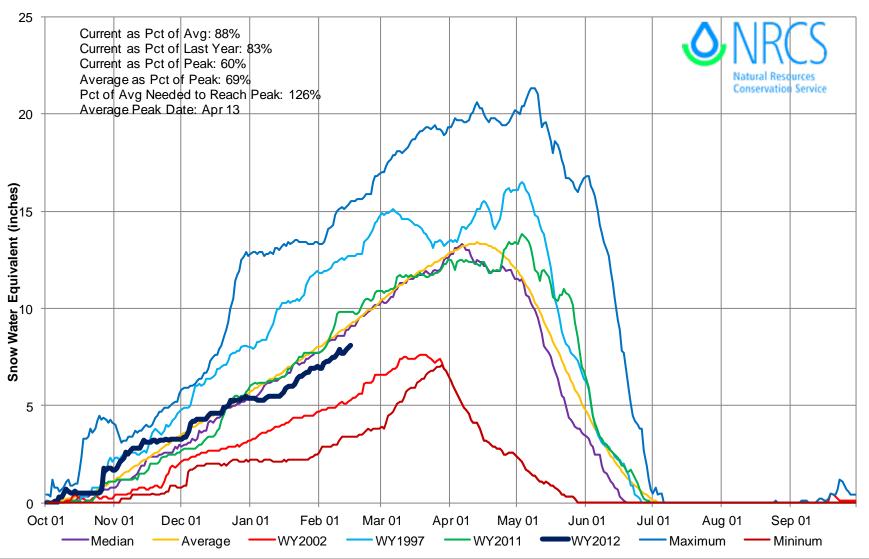
February 1 Total Arkansas River Basin Snowpack



Year

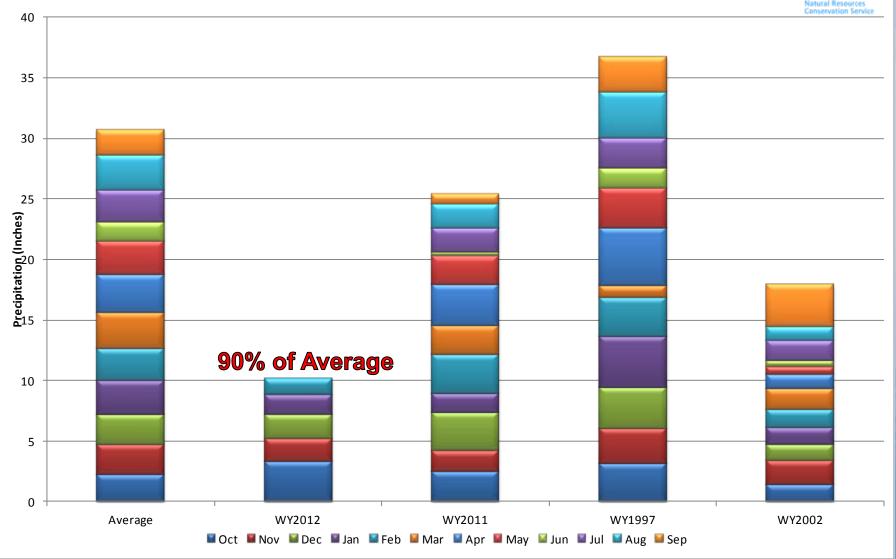
Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 15, 2012

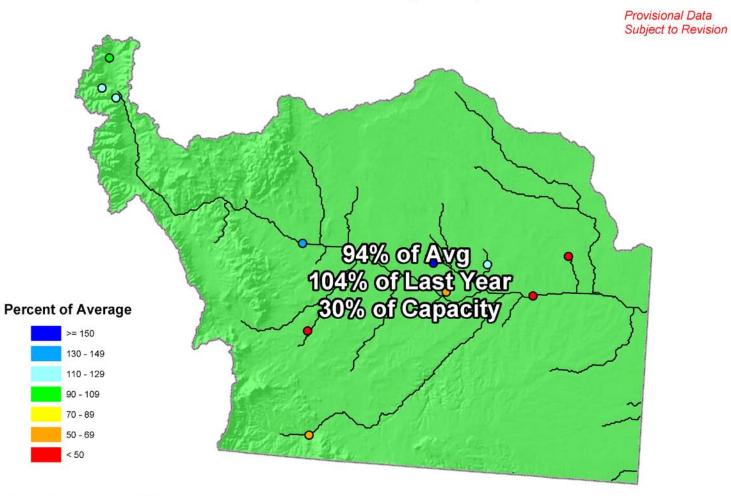


Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 15, 2012

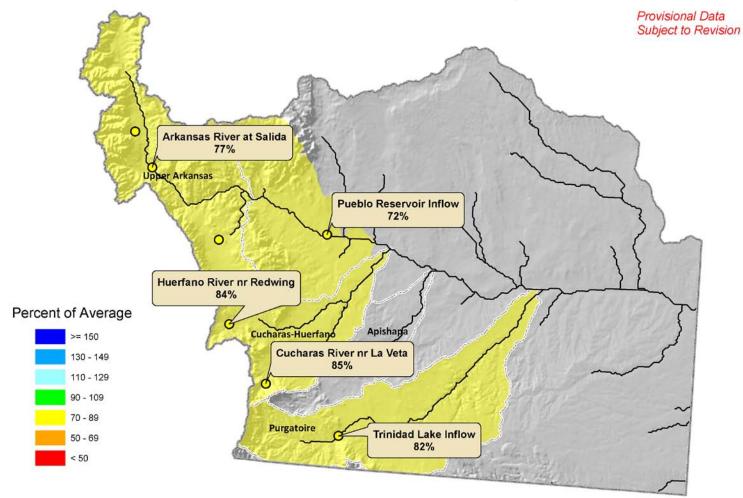


Arkansas River Basin Reservoir Storage Map

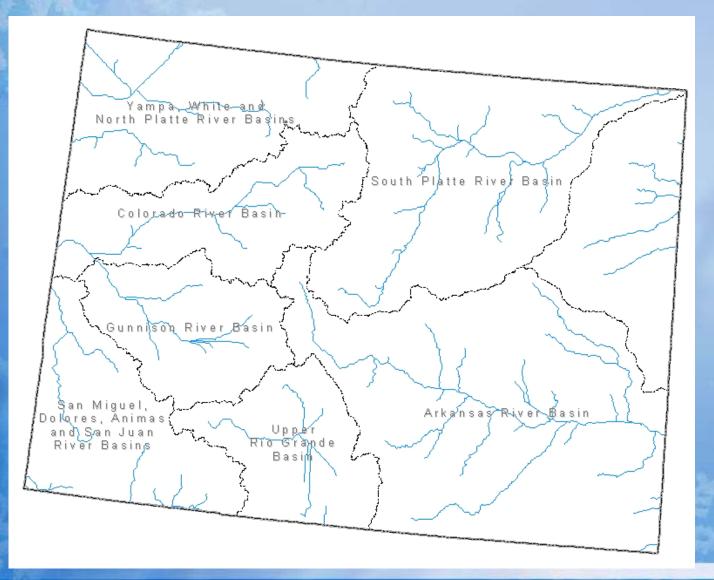


End of January 2012

Arkansas River Basin Streamflow Forecast Map

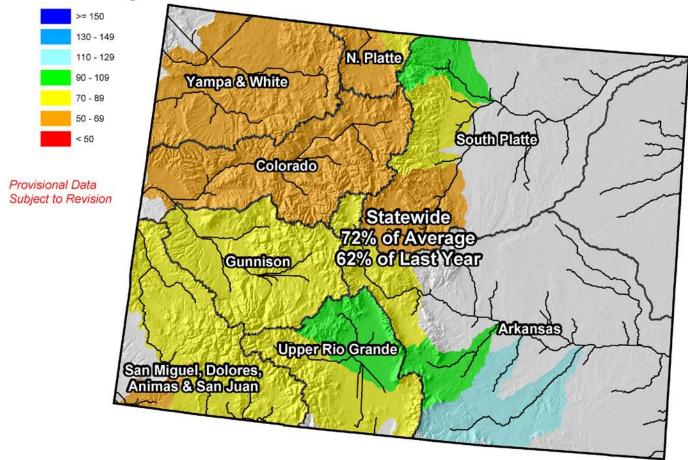


Colorado Statewide Summary

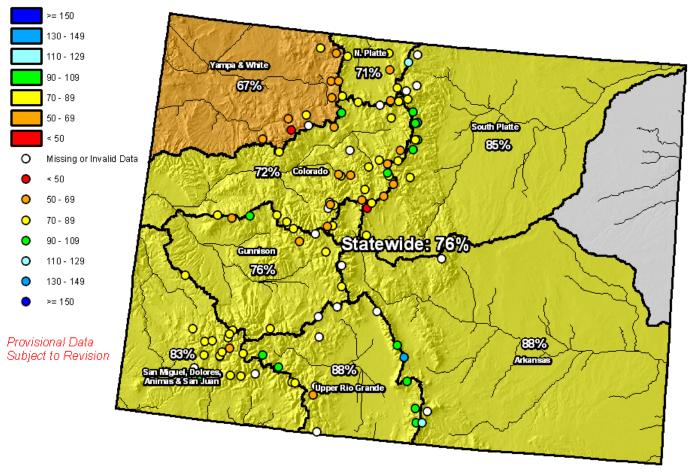


Colorado Snowpack Map

Percent of Average

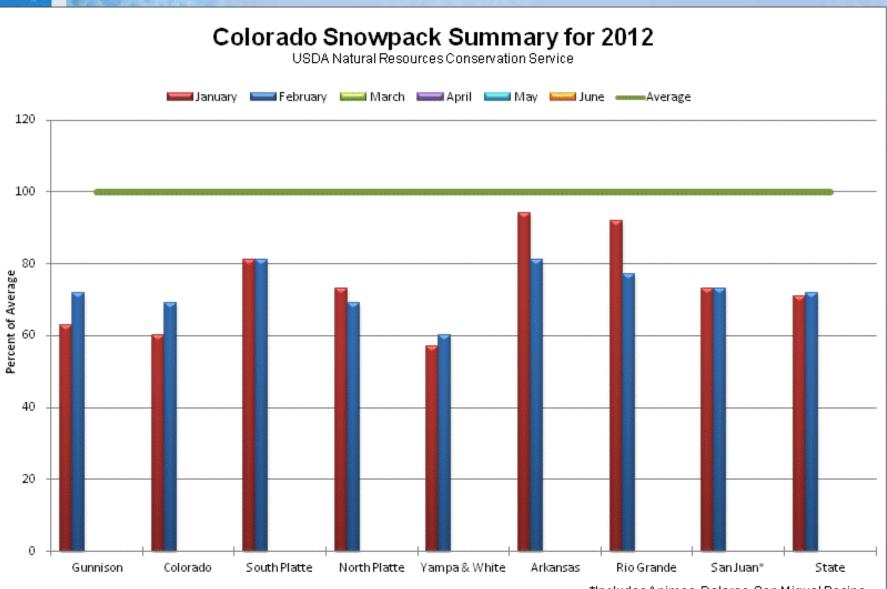


Colorado SNOTEL Snowpack Update Map with Site Data Percent of Average

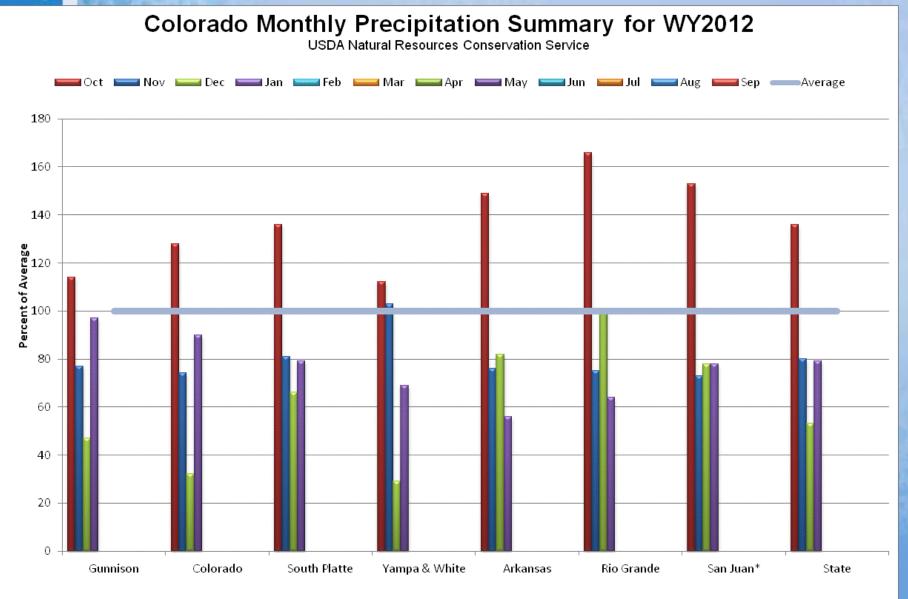


Current as of Feb 15, 2012

*Data may not provide a valid measure of conditions

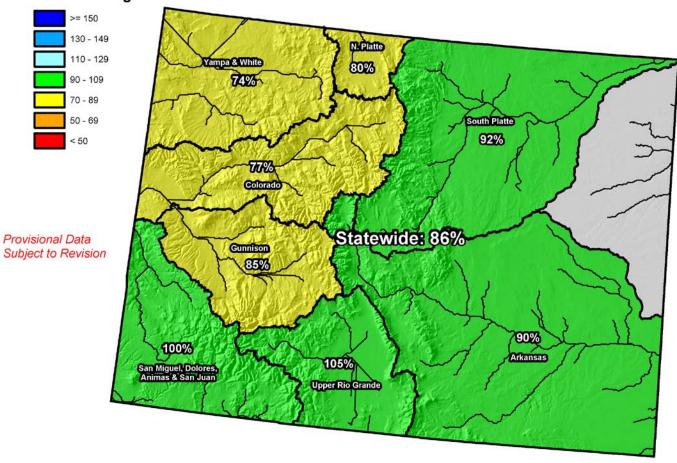


*Includes Animas, Dolores, San Miguel Basins



*Includes Animas, Dolores, San Miguel Basins

Colorado SNOTEL Water Year-to-Date Precipitation Update Map Percent of Average



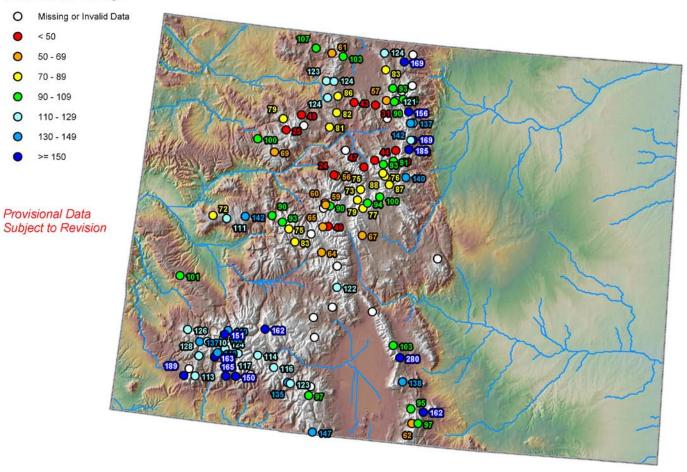
Current as of Feb 15, 2012

Colorado SNOTEL Month-to-Date Precipitation

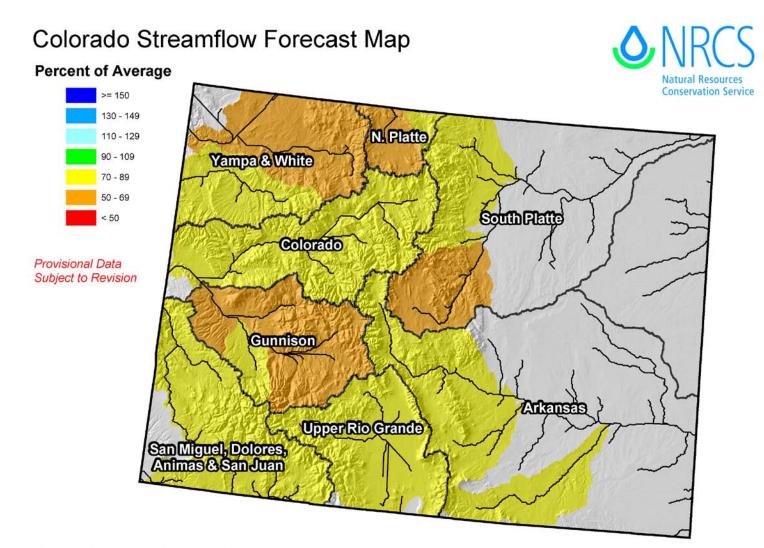
Percent of Average

0

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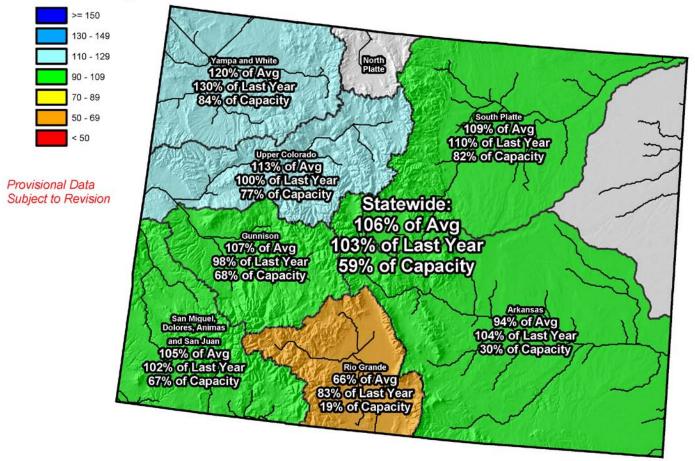


Current as of Feb 15, 2012

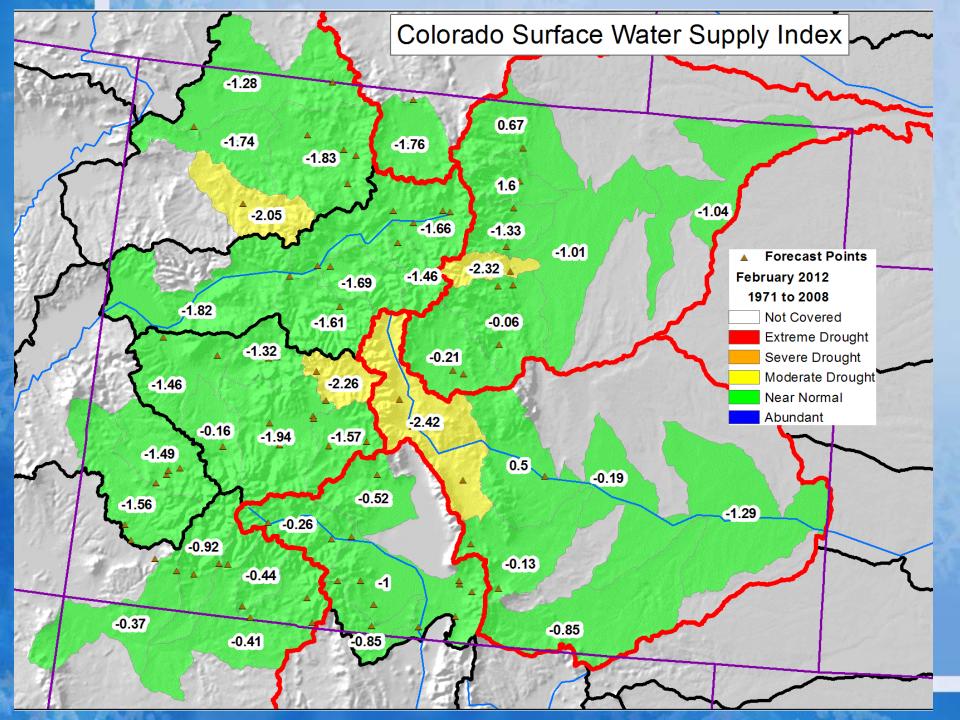


Colorado Reservoir Storage Map

Percent of Average



End of January 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. TheYampa/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 – Statewide we have had average snowfall this month. Colorado basin is the only basin recording below average SWE so far this month. We need well above average conditions to boost the snowpack to normal