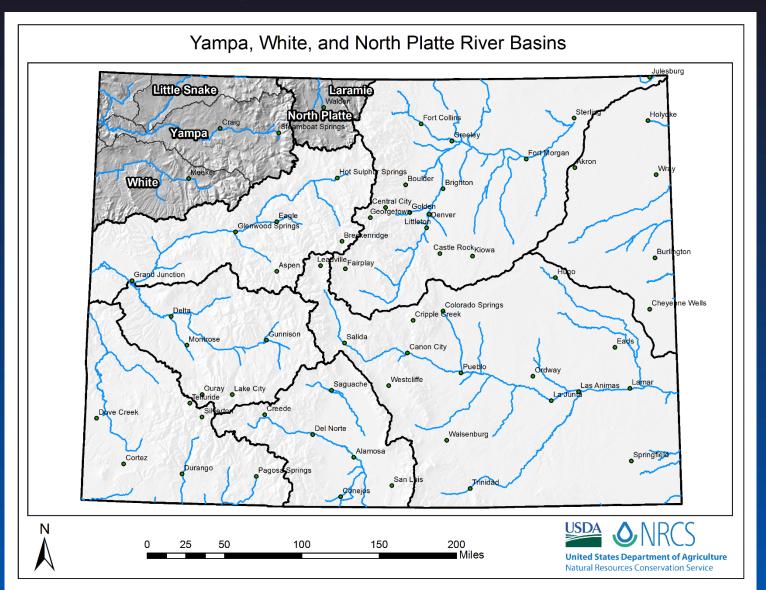
Water Availability Task Force Meeting November 15th, 2016

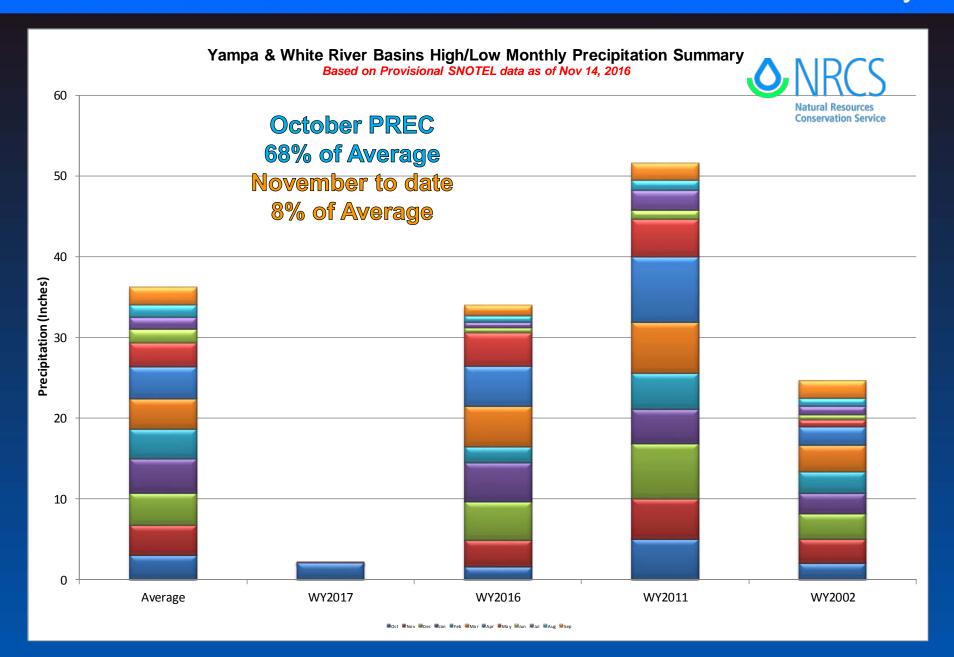
NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos
Snow Survey Supervisor
720-544-2852

http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/

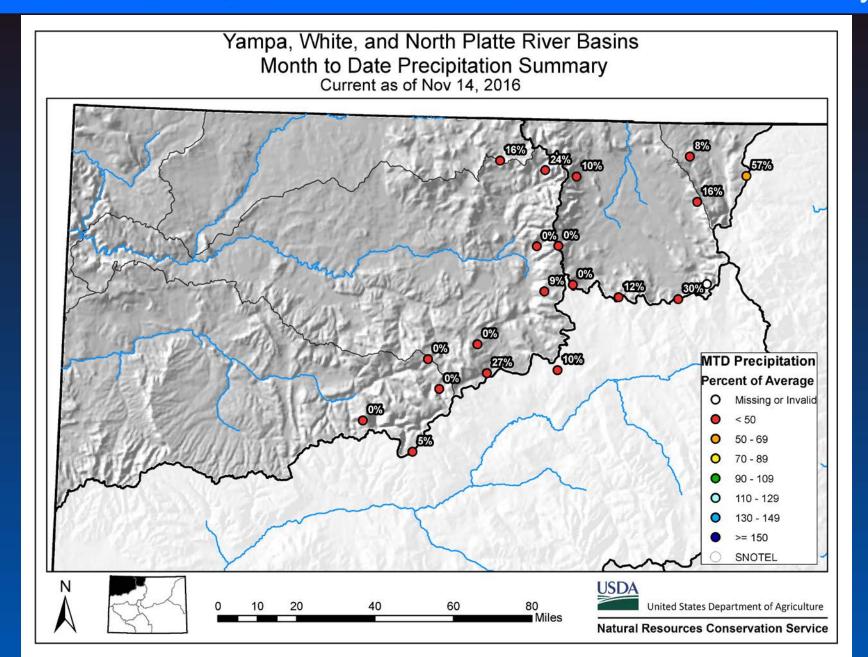






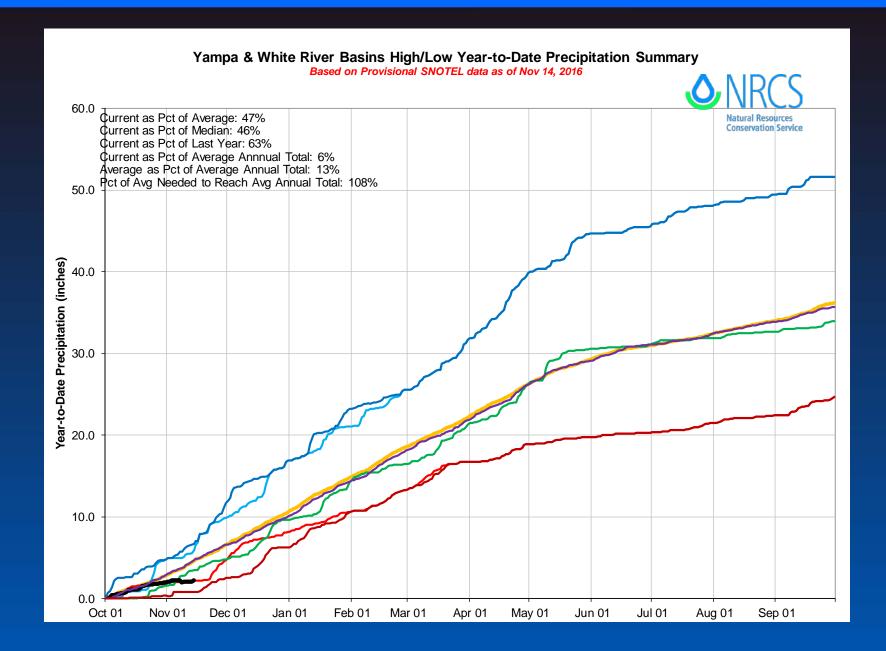




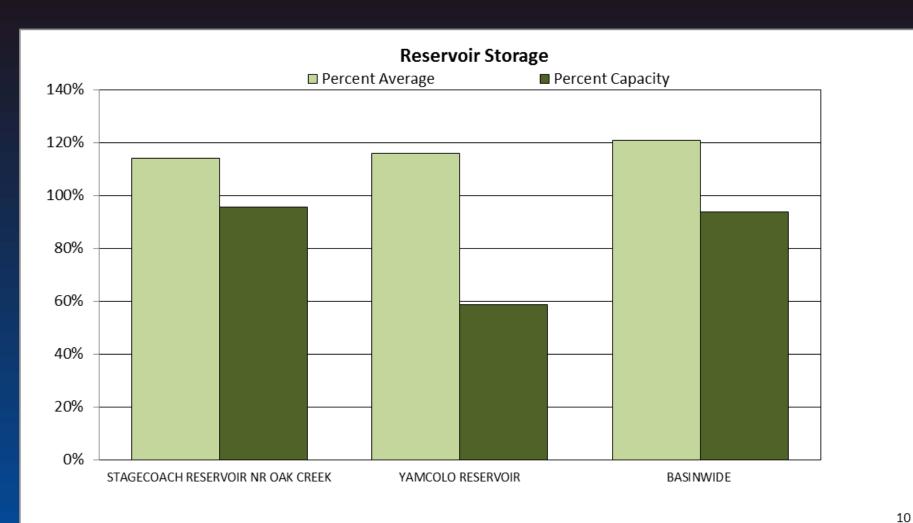




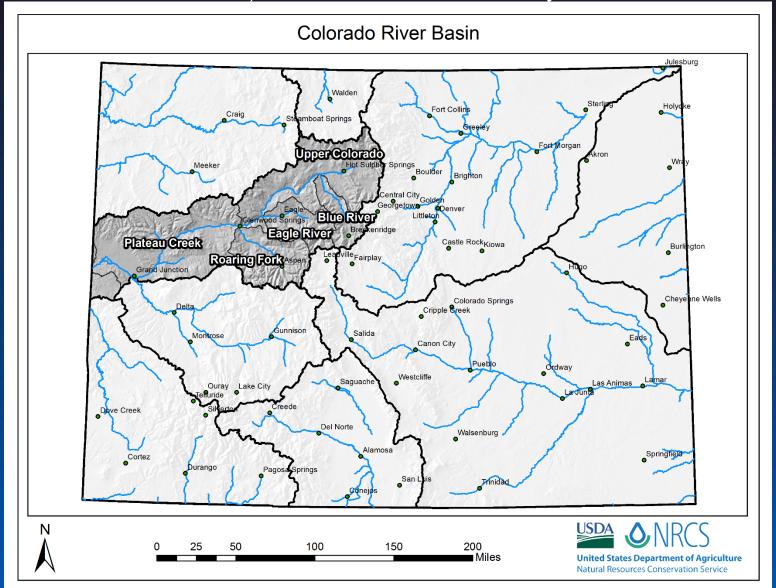


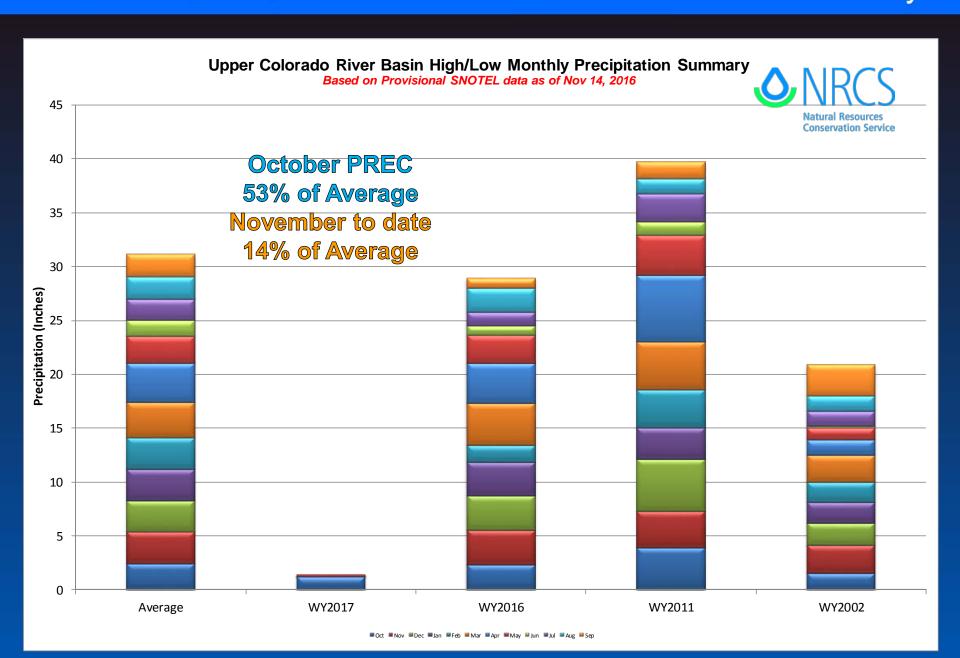






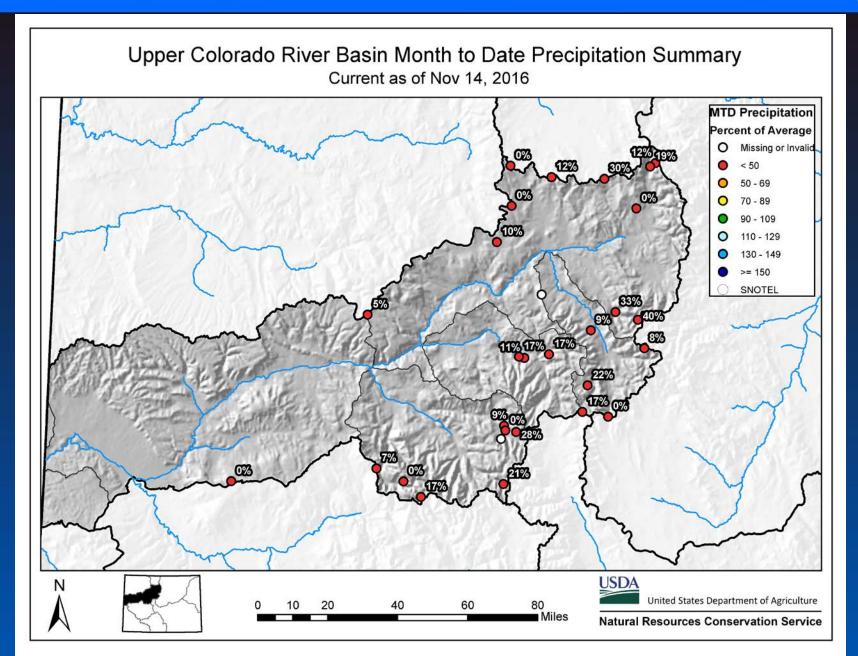






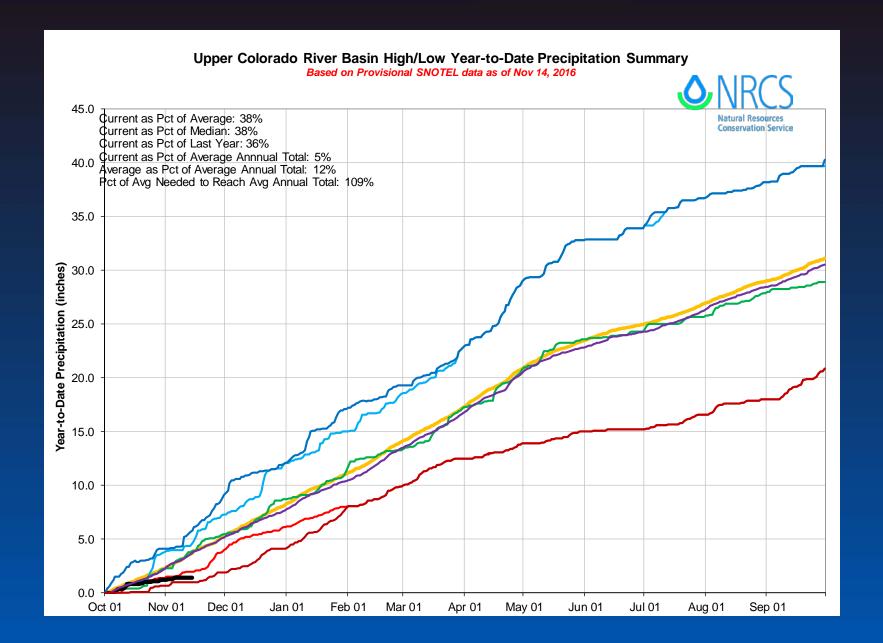




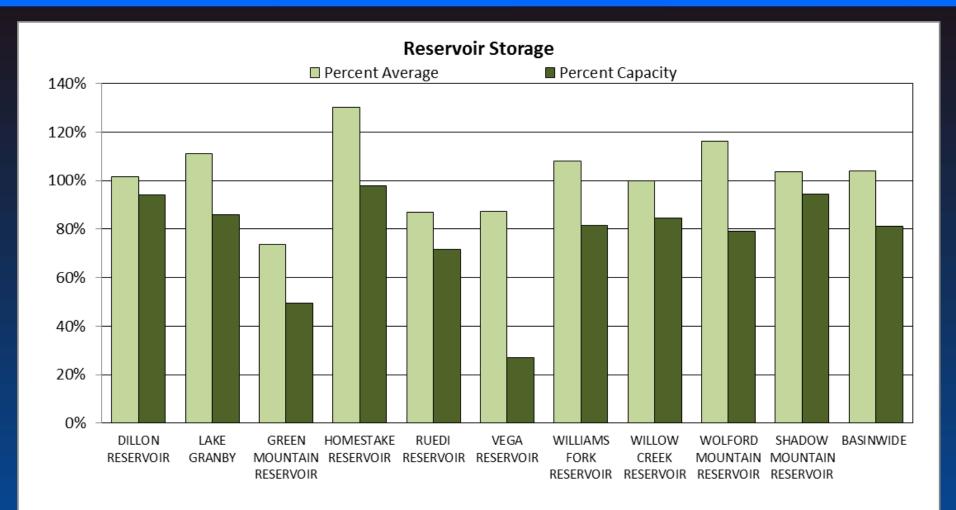








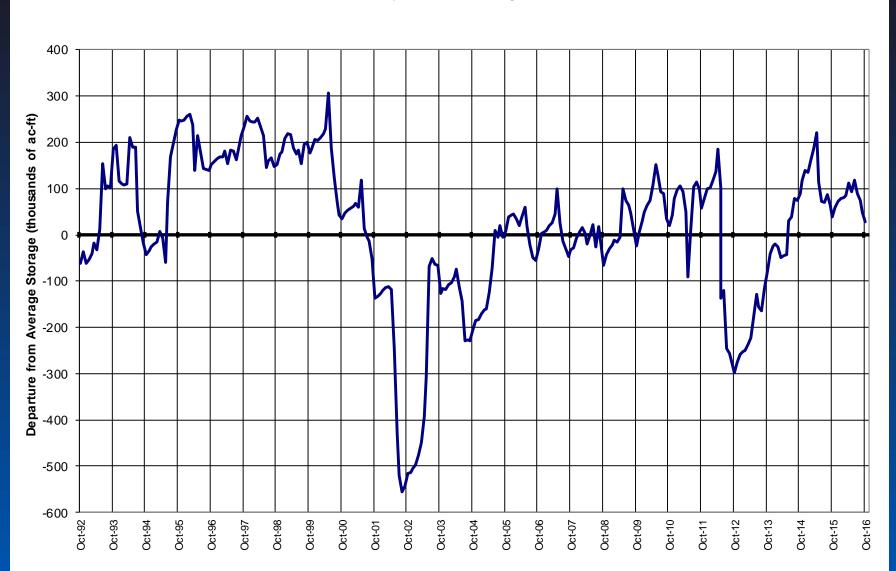




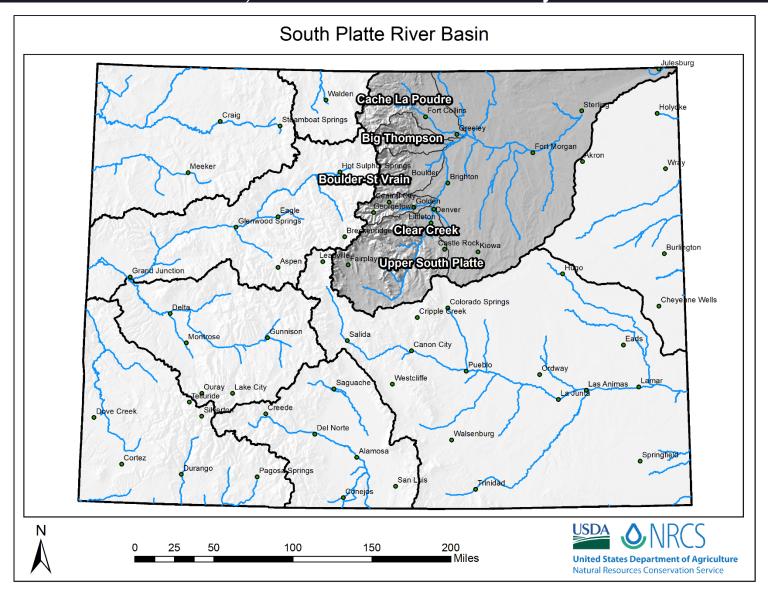


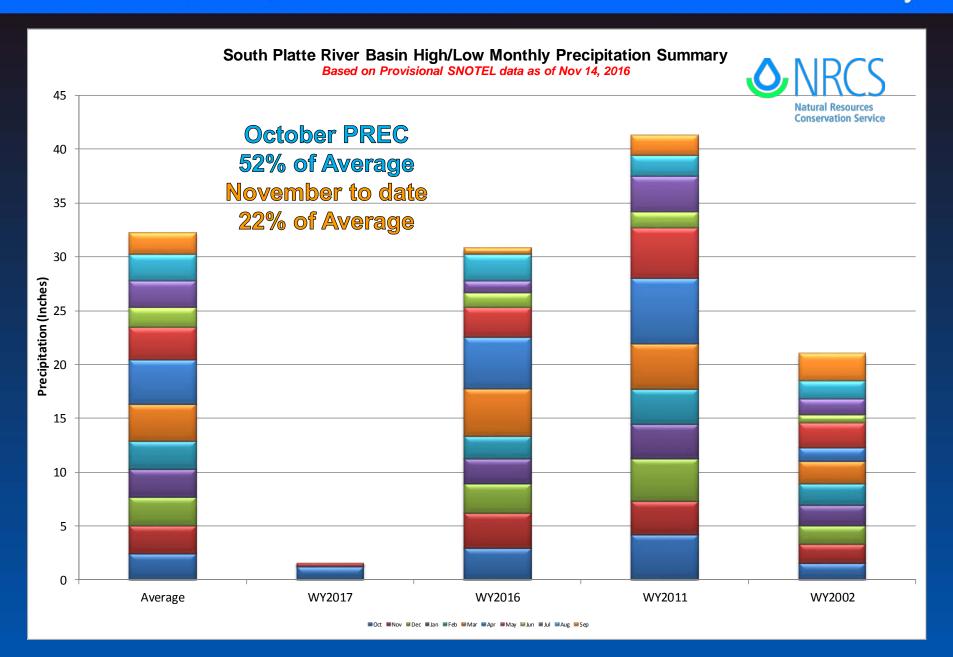
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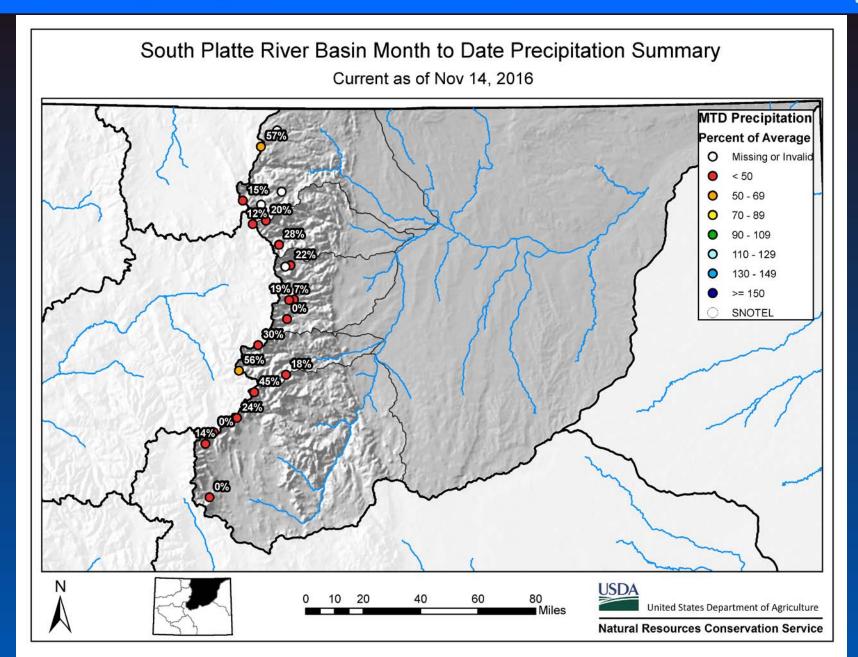




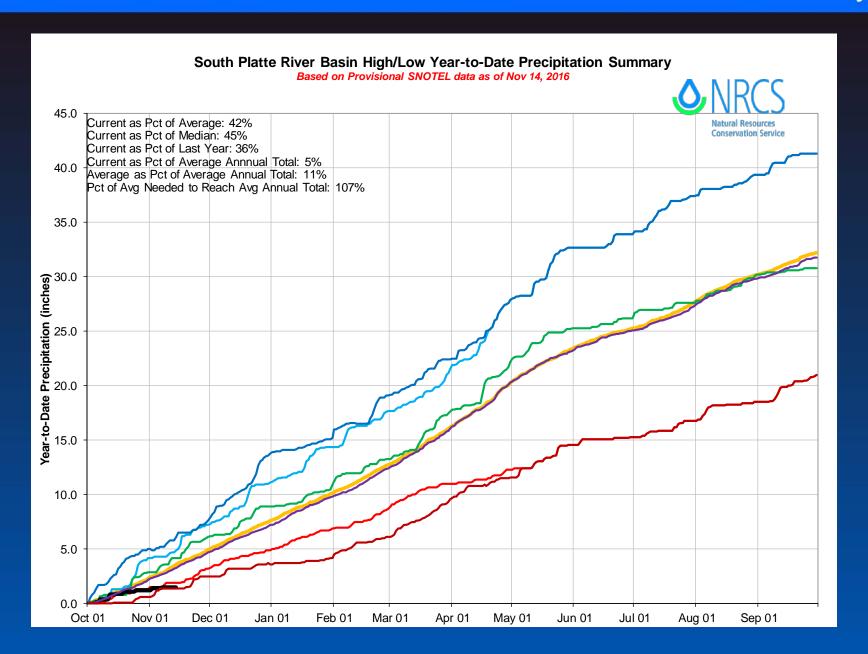






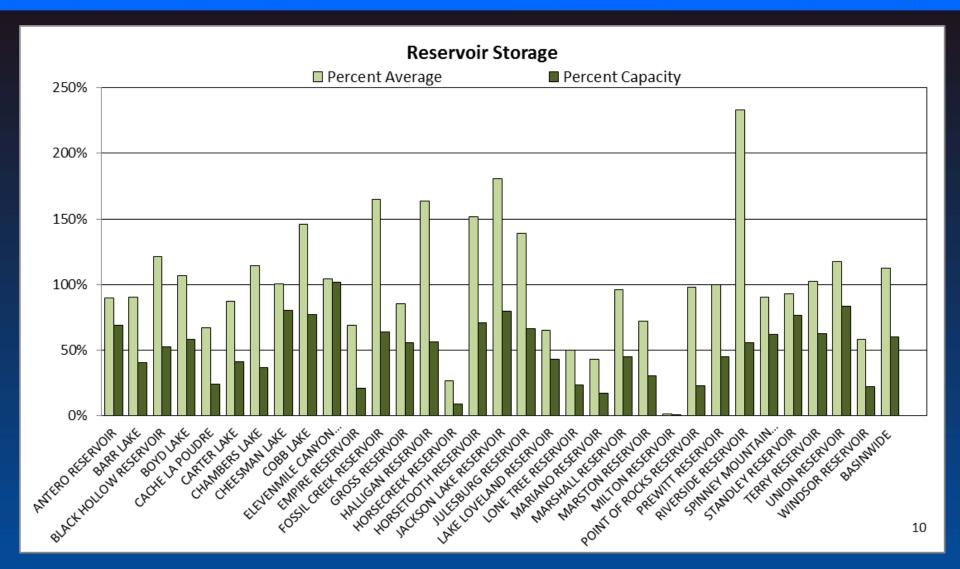








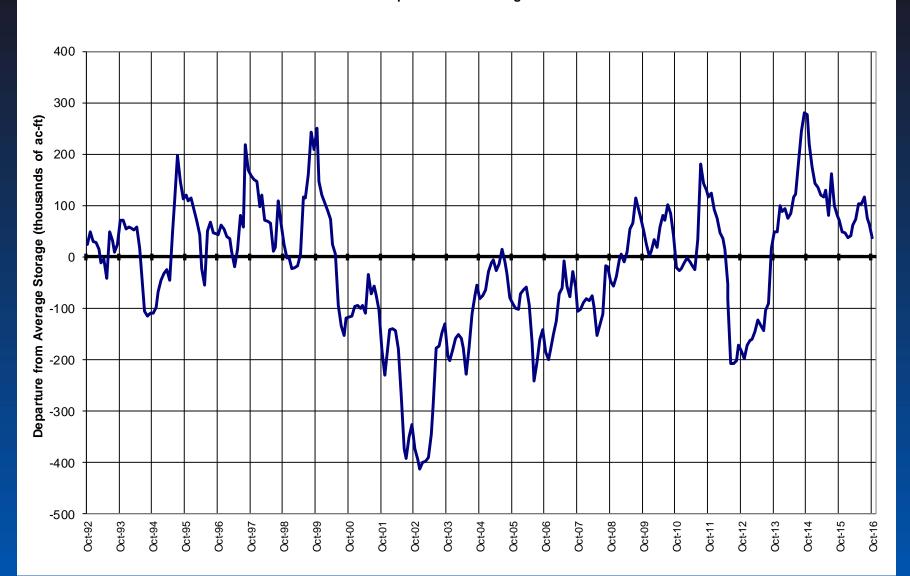




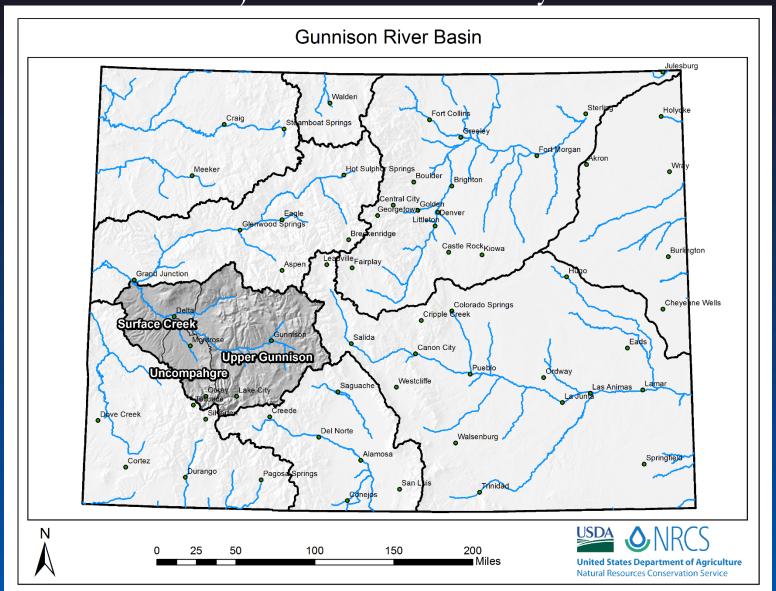


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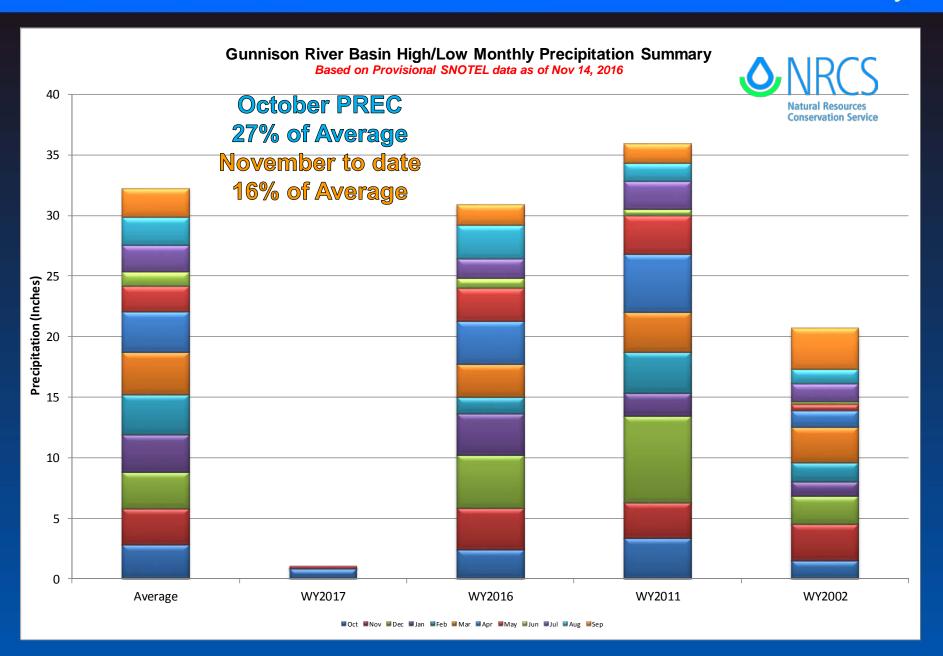






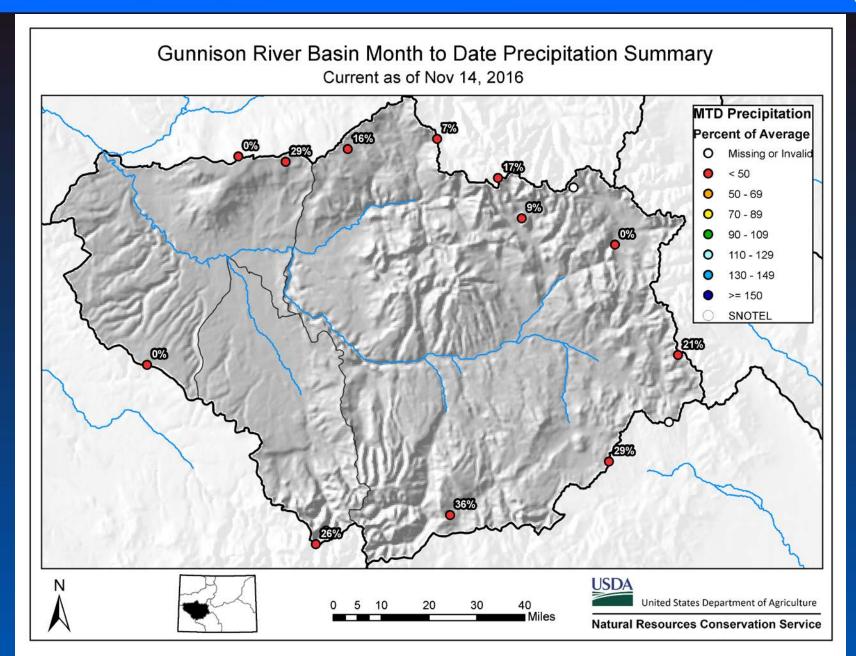






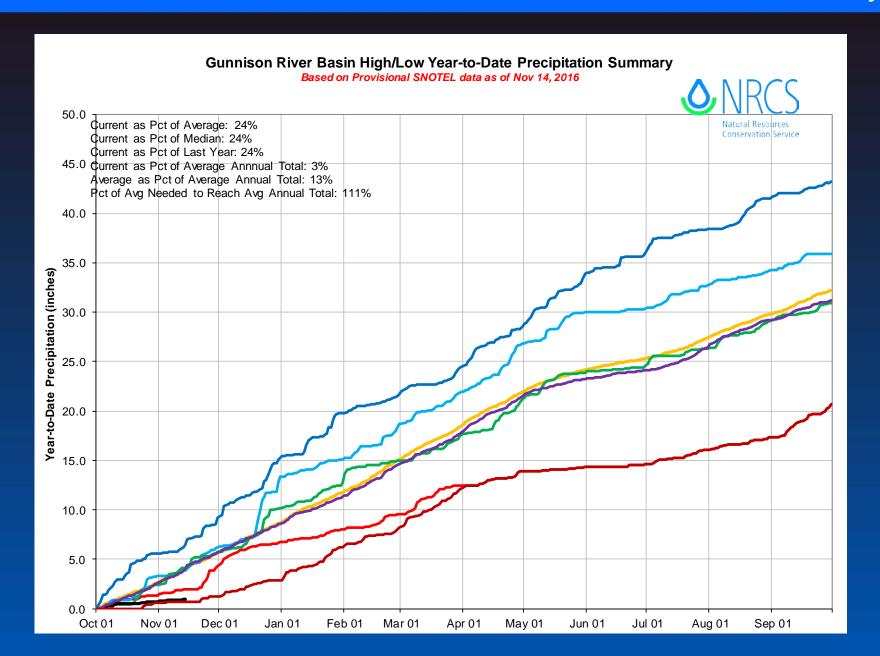




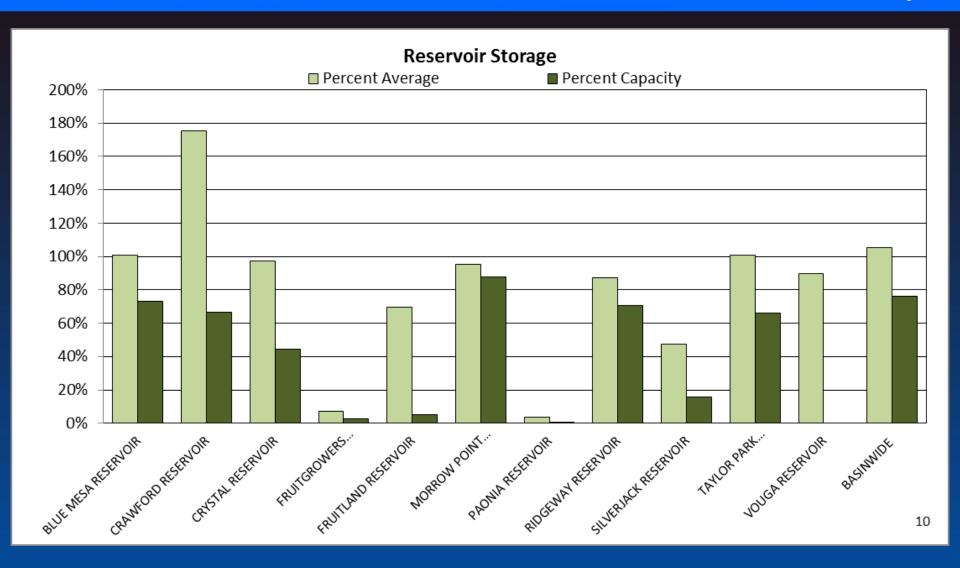








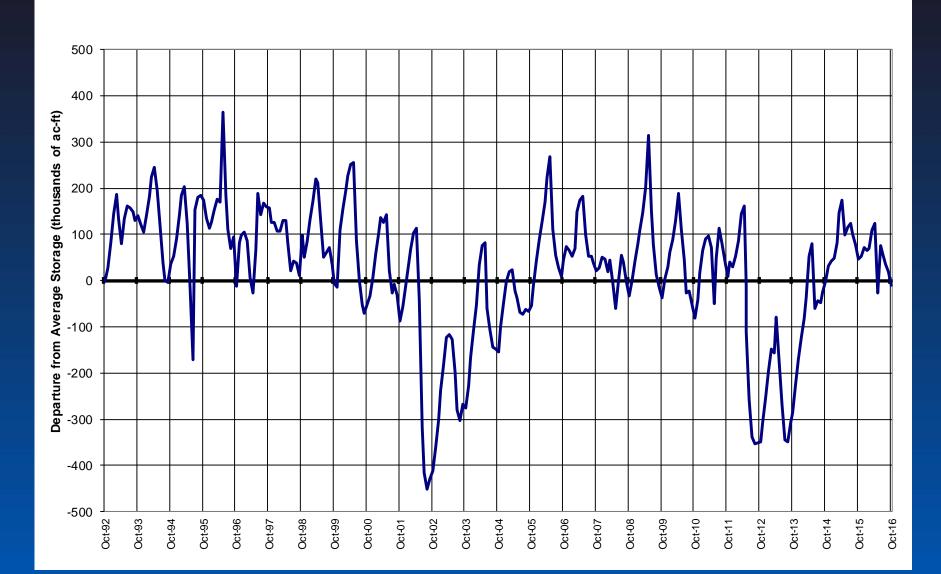






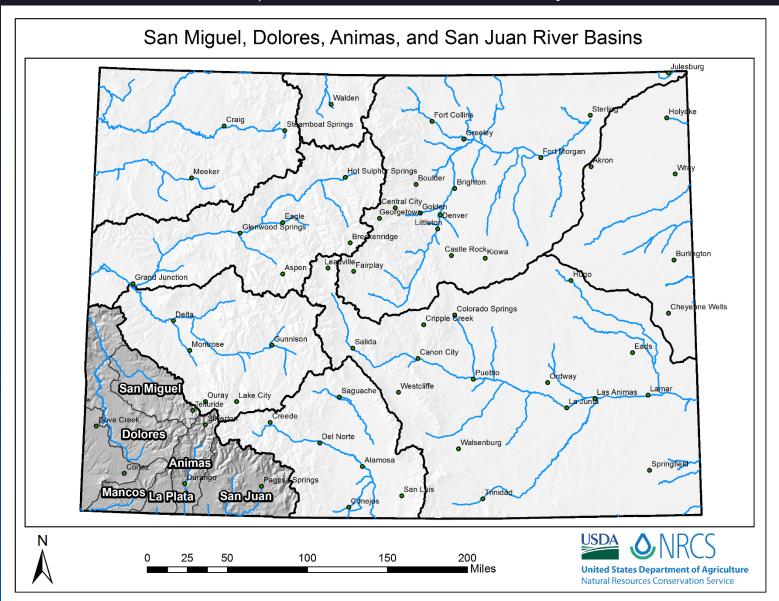
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GUNNISON RIVER BASIN Reservoir Storage Departure from Average

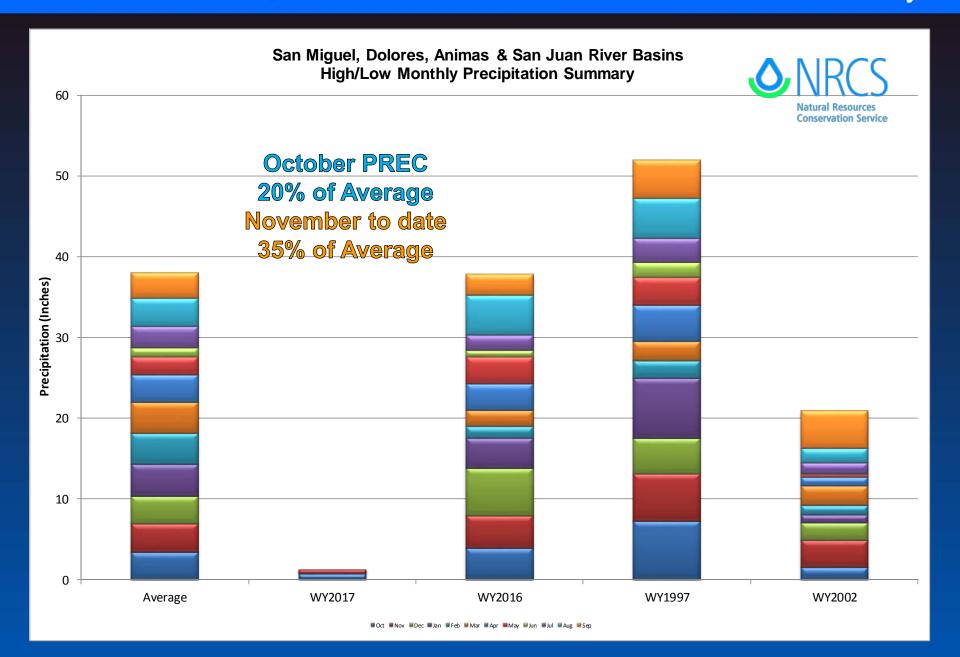






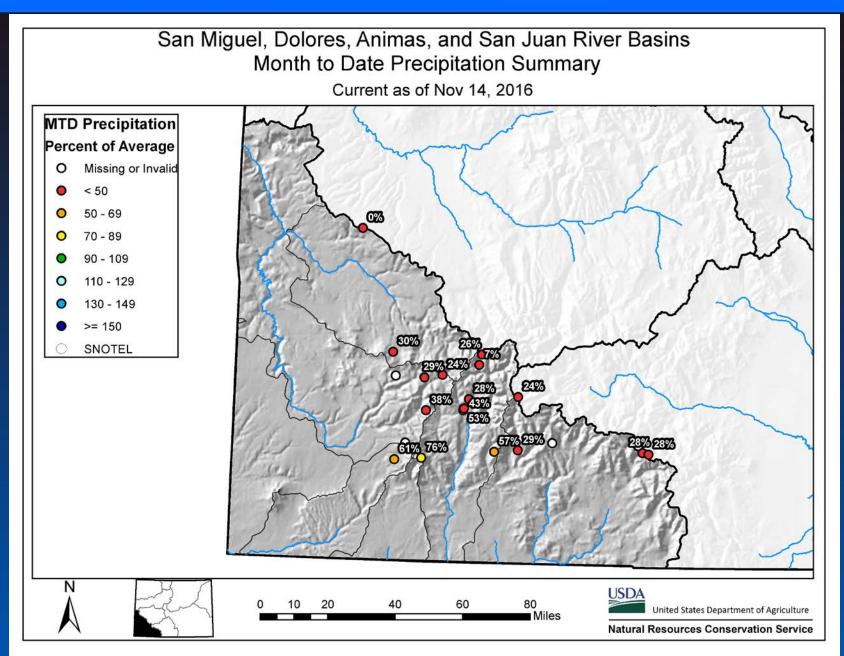






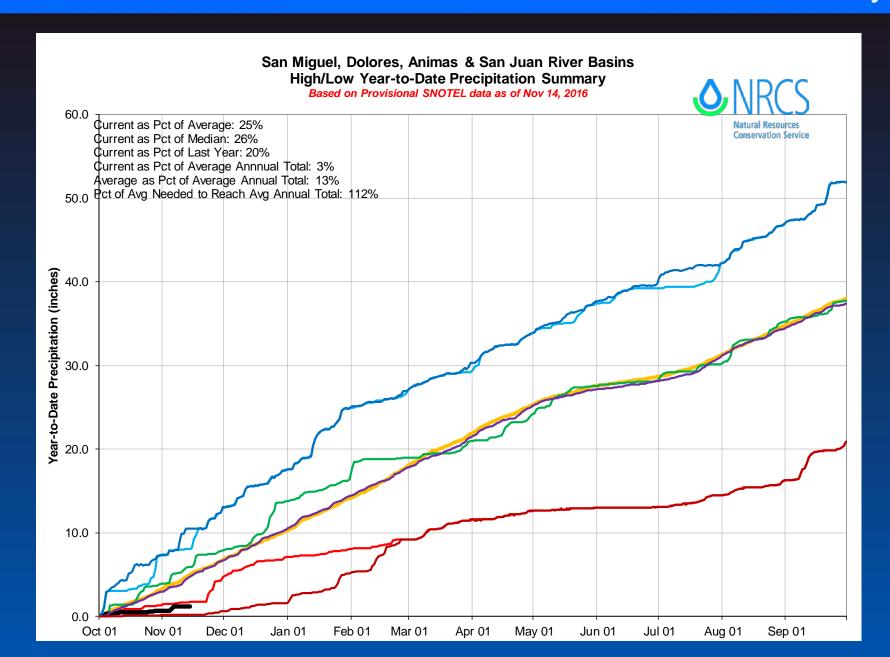




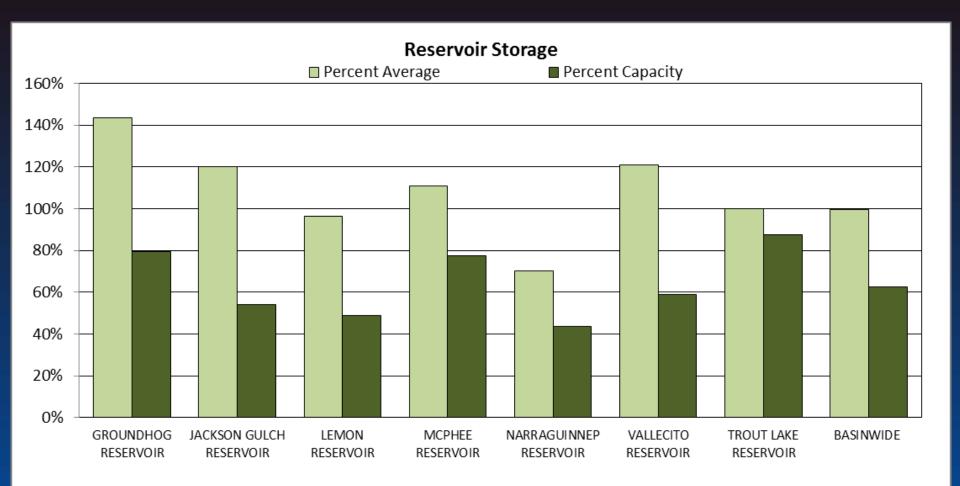








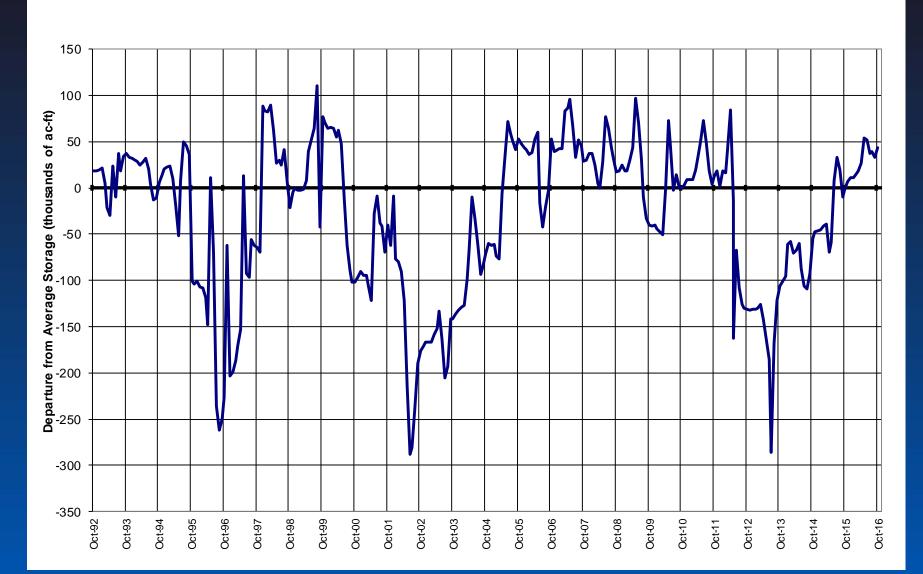






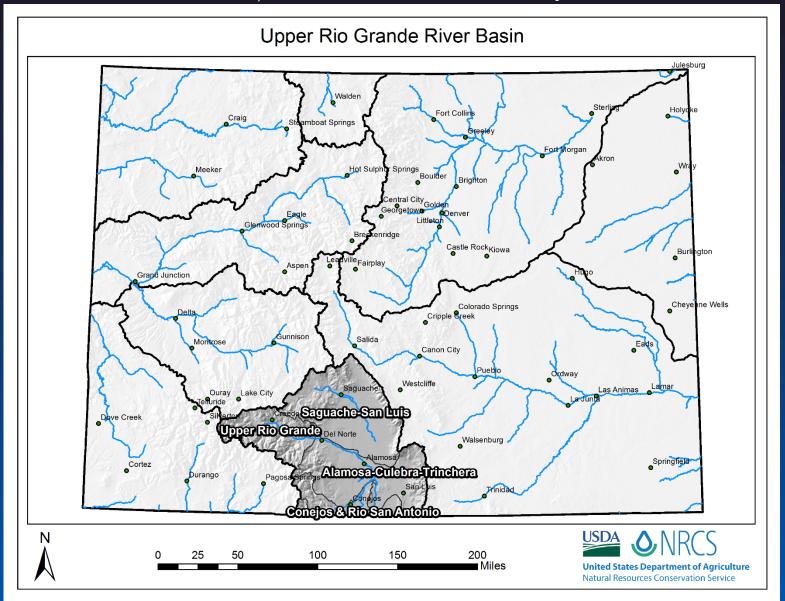


SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS Reservoir Storage Departure from Average



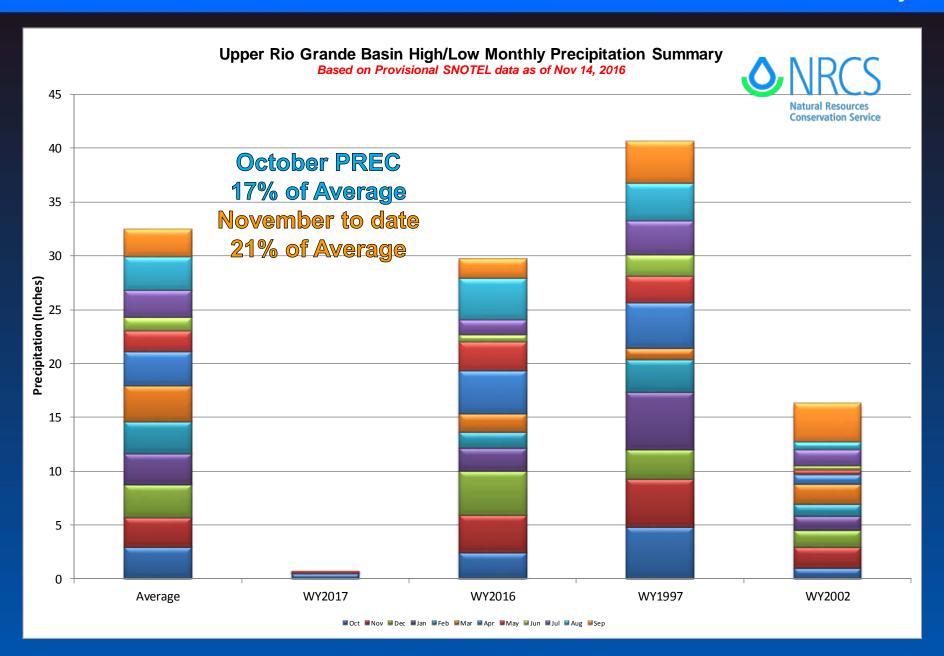






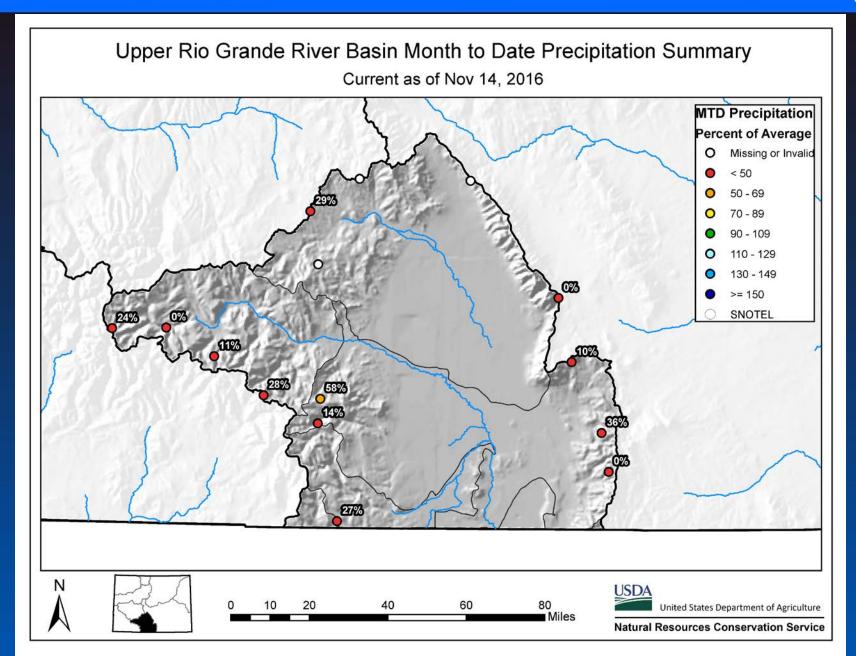






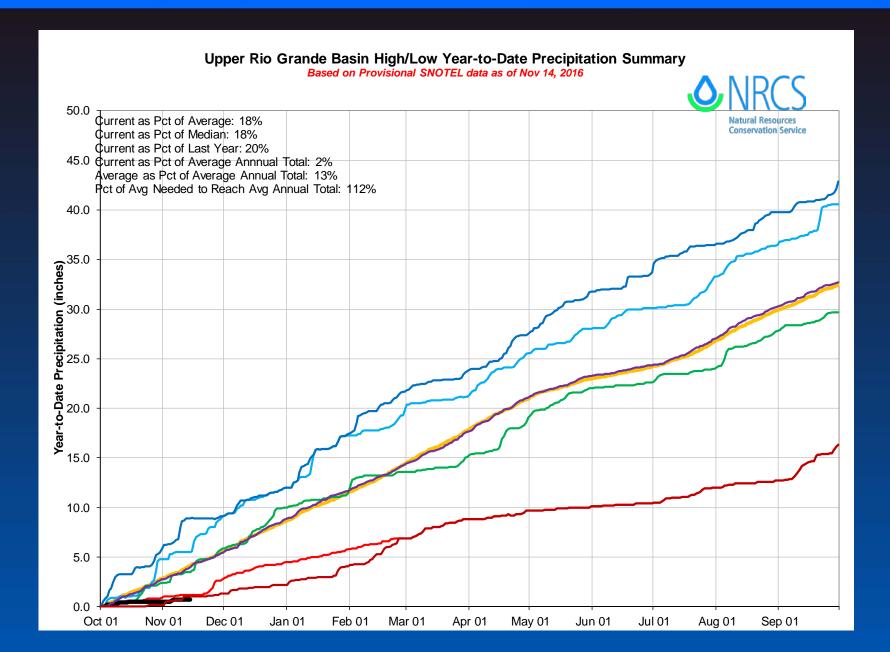




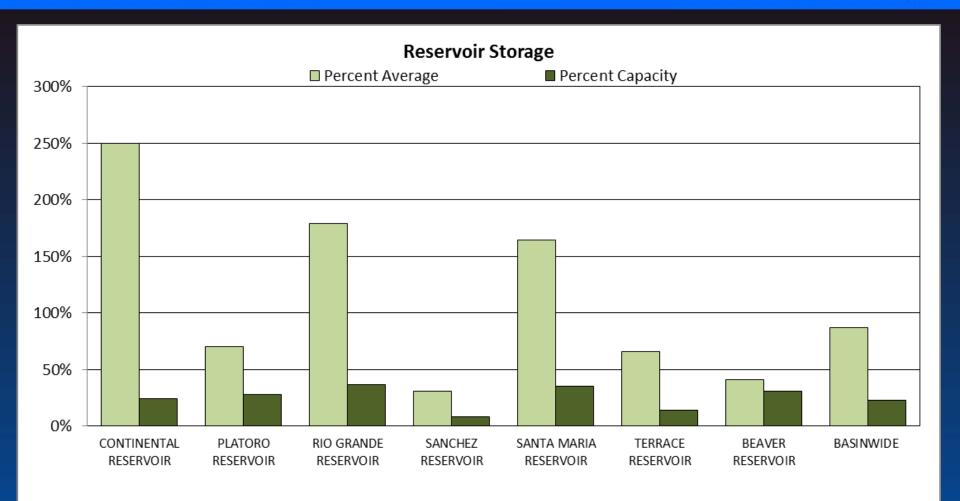








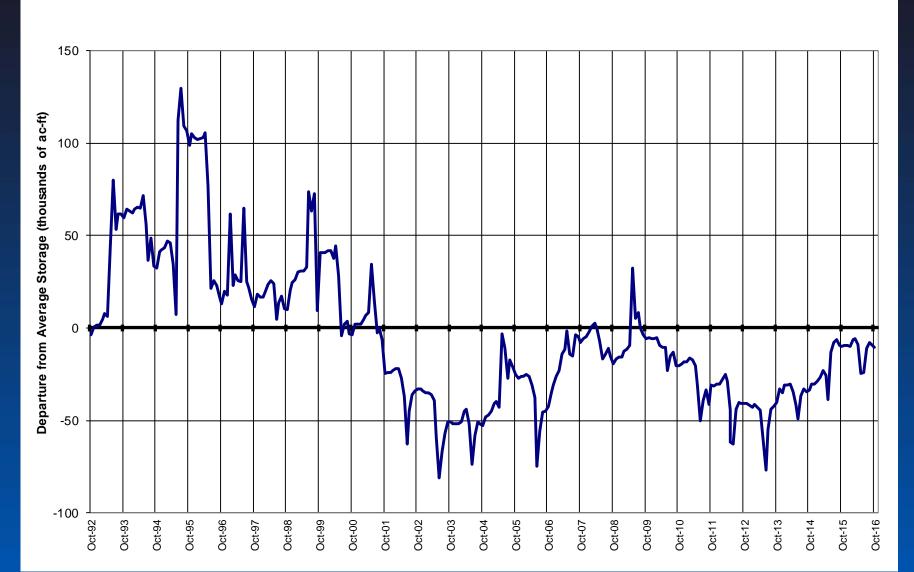








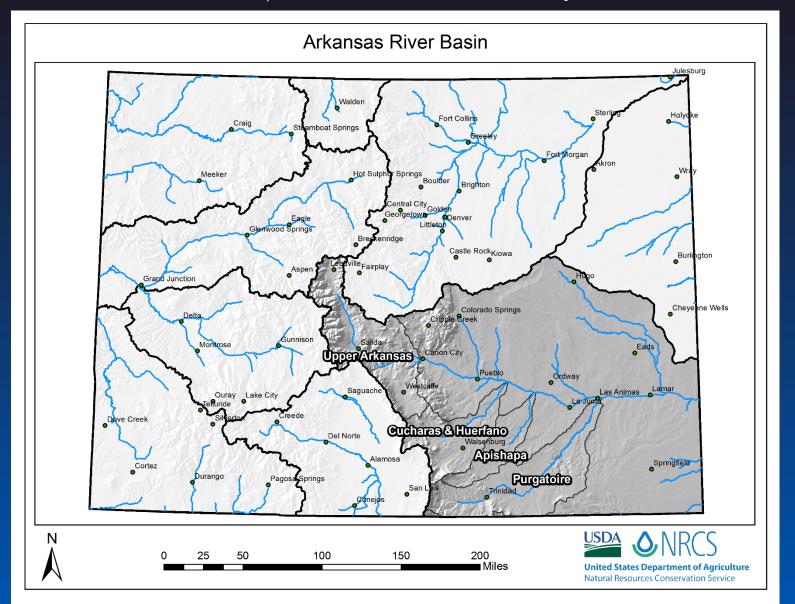


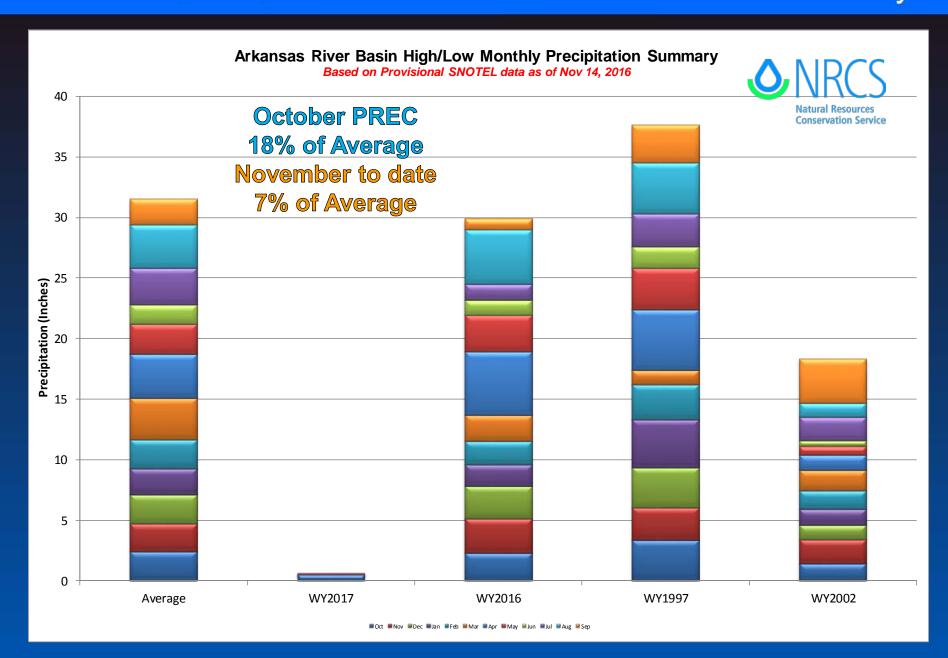






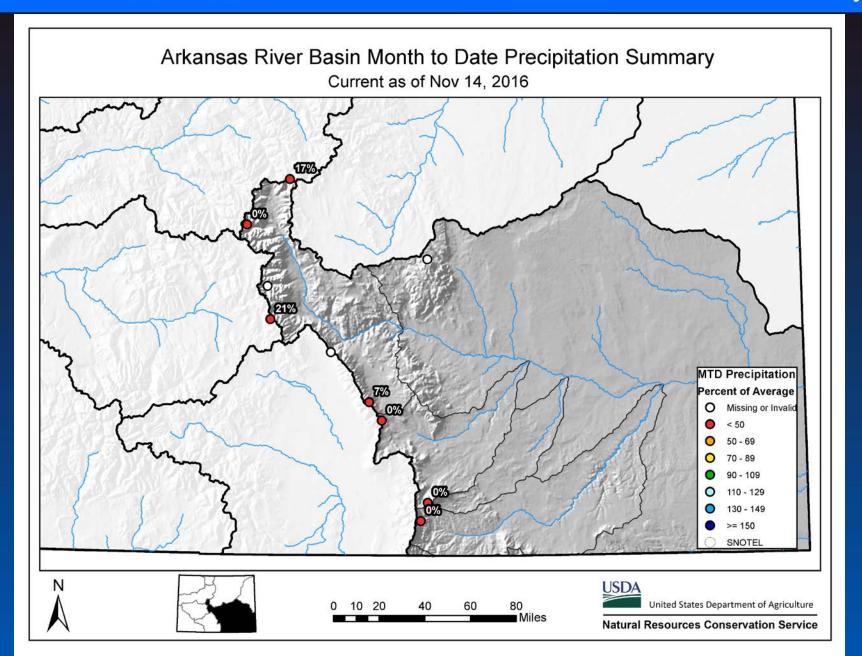
Major Basin Summary





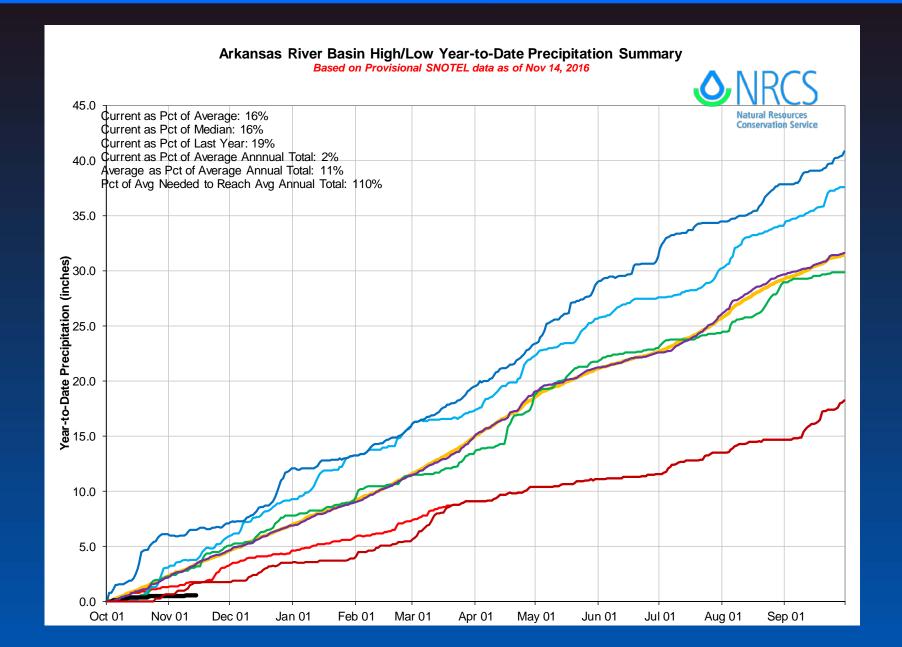




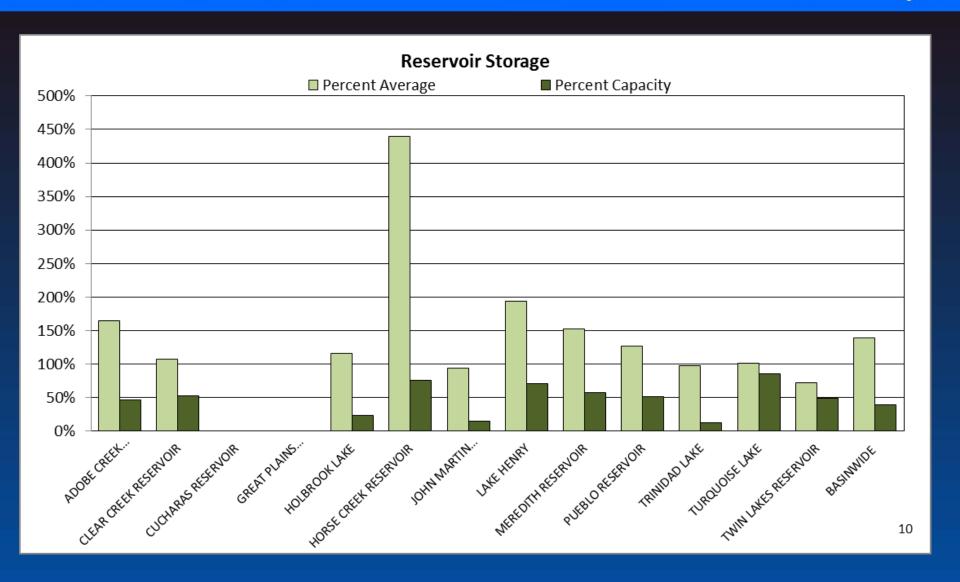








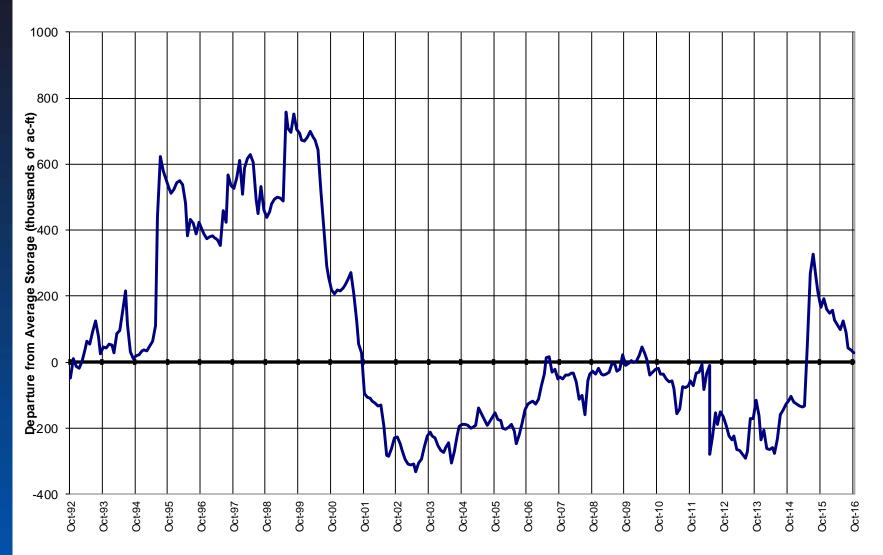






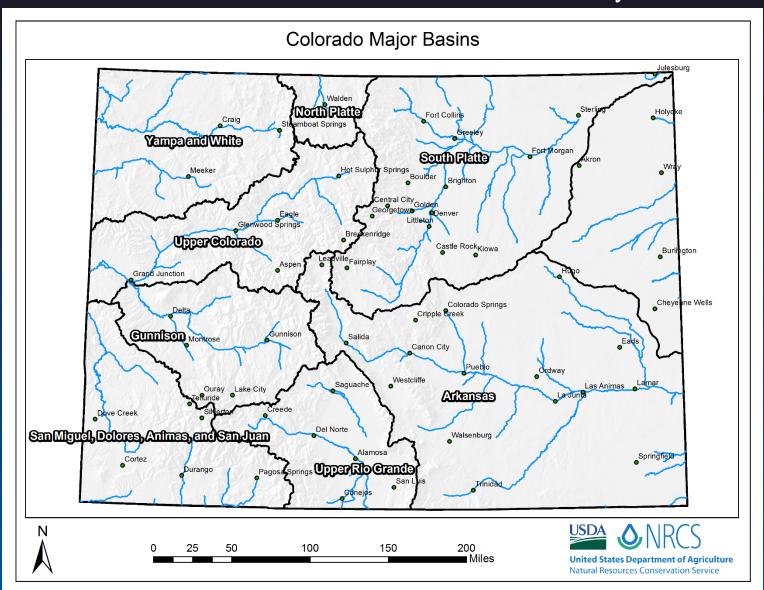
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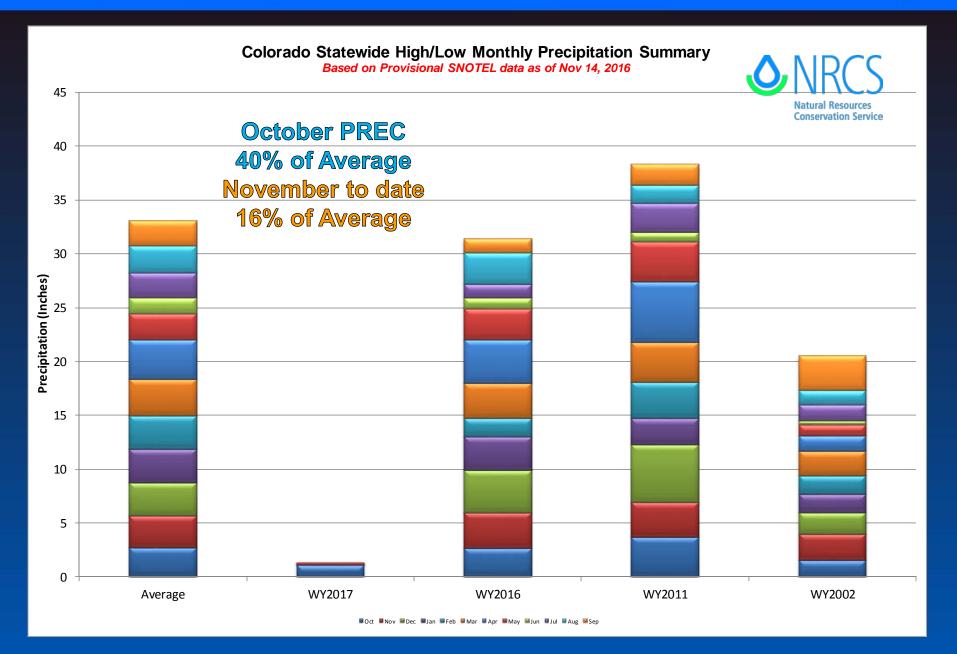




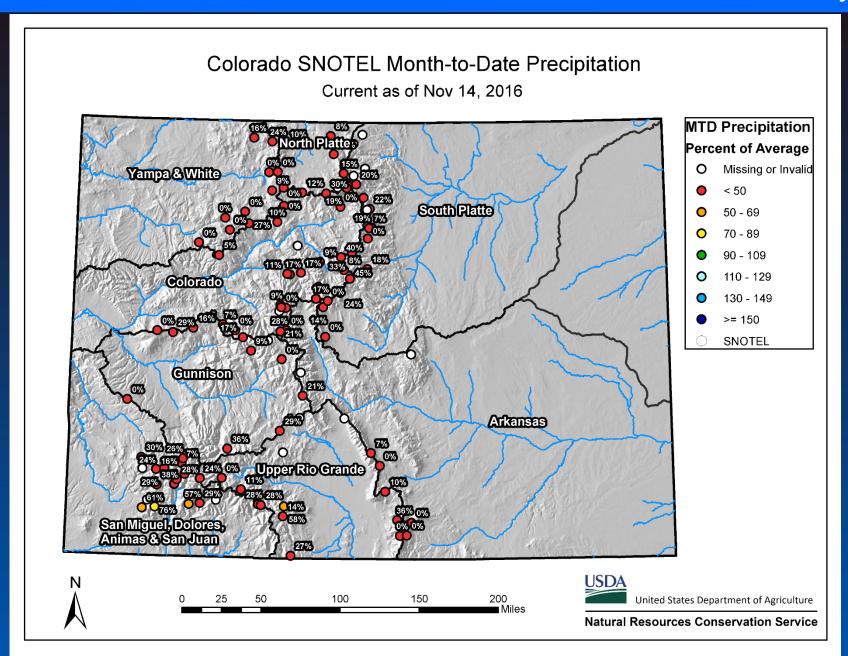
Colorado Statewide Summary





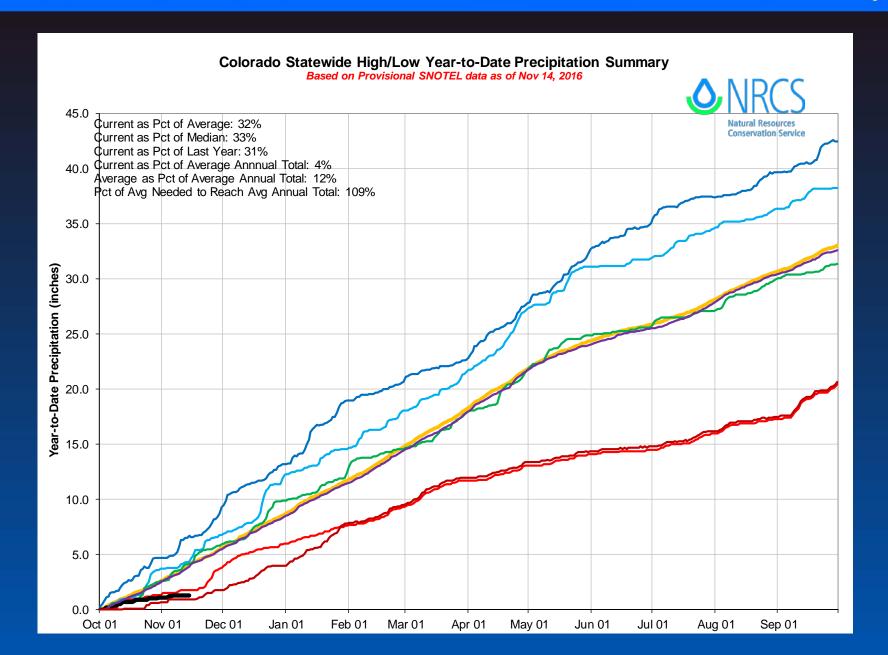




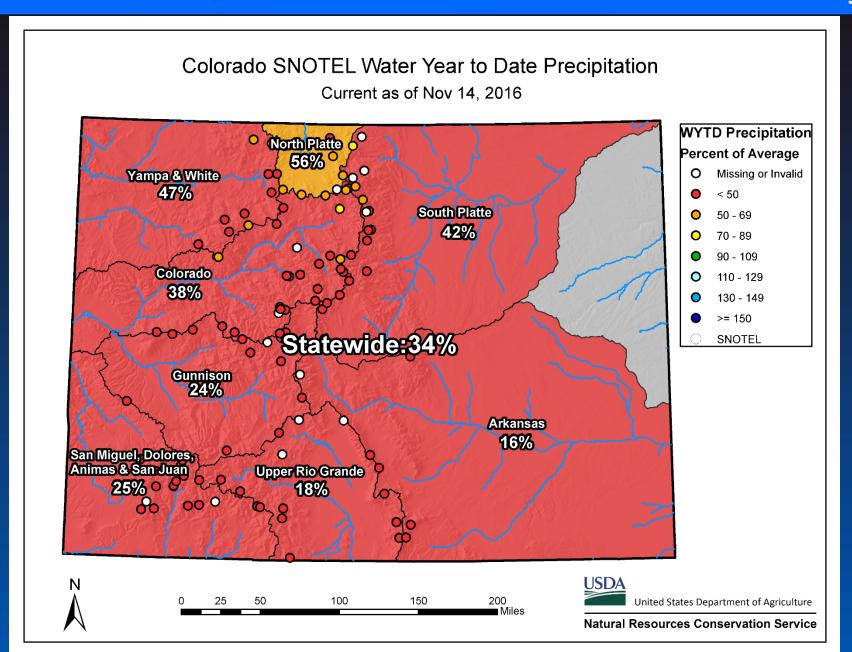






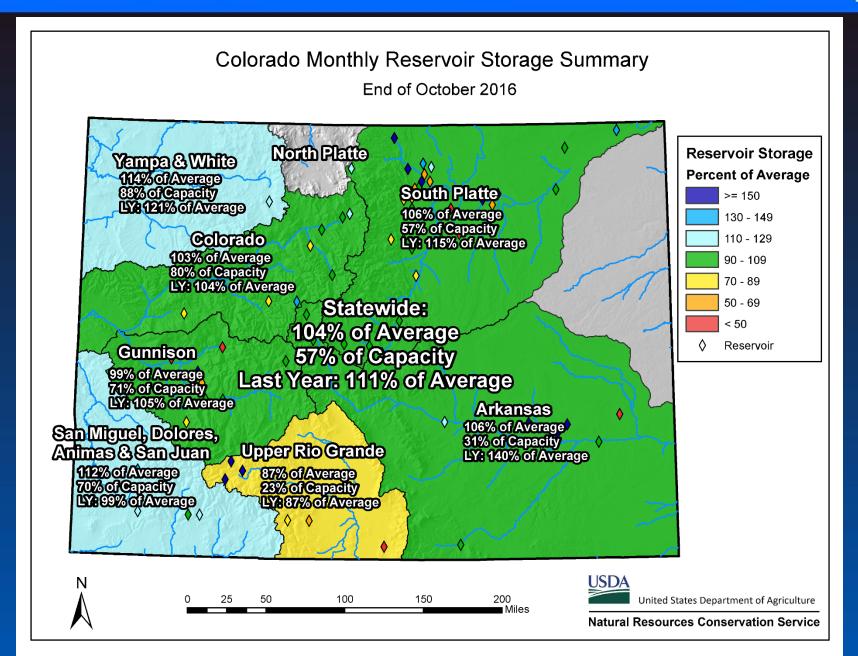






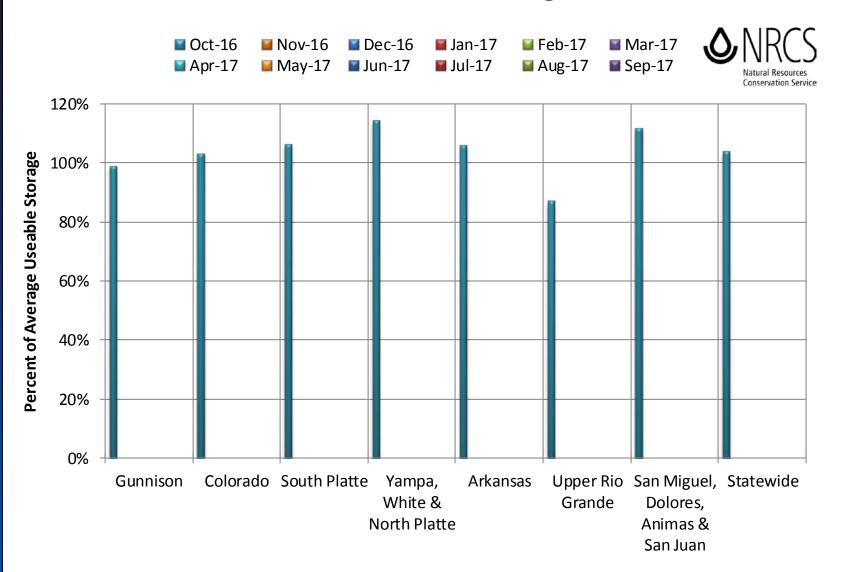








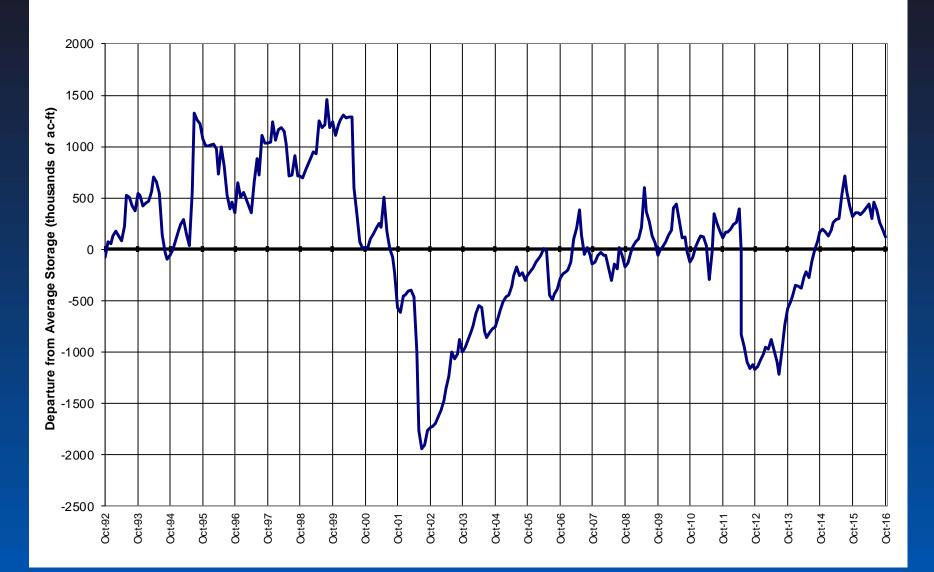






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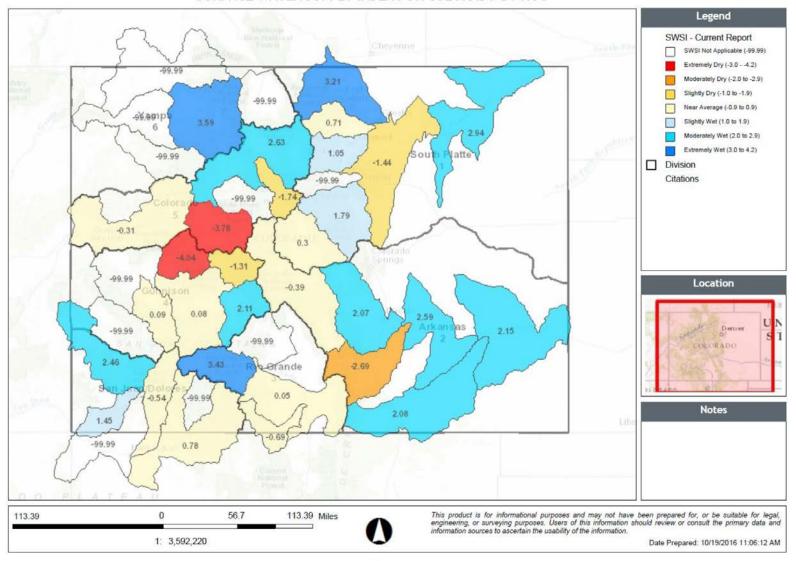
COLORADO STATEWIDE Reservoir Storage Departure from Average



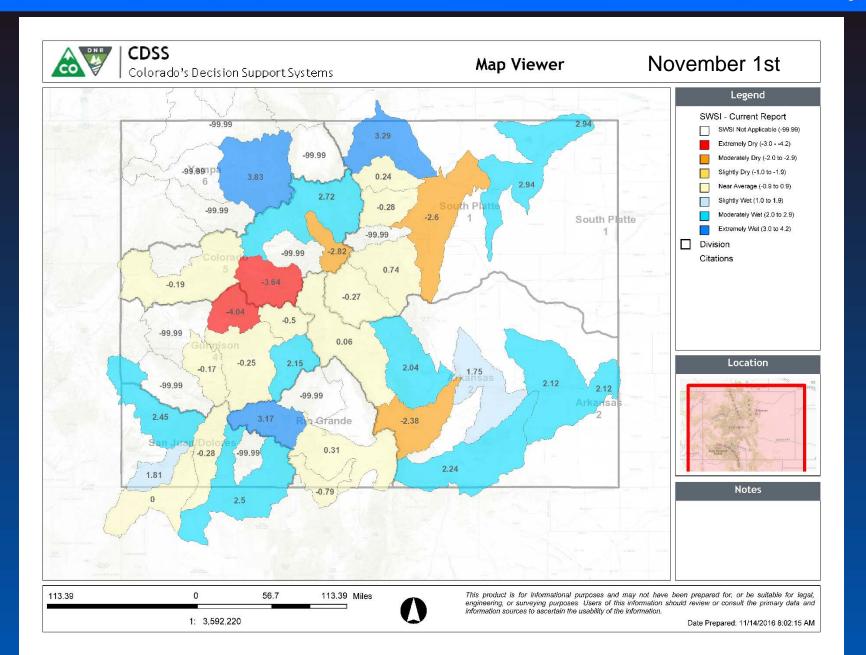


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SURFACE WATER SUPPLY INDEX FOR COLORADO BY HUC









Red Mountain SNOTEL

- •Landowner has asked NRCS to remove site after 38 years on record
- •We are investigating installing a site 200 ft away on USFS land
 - This comes with risks that new site is not exactly the same
 - Will take nearly a decade to determine if the new site is truly suitable and the records can be melded
 - We will visit the land and perform manual surveys to gather potential and present site comparisons
- •He wishes to sell the land
 - Believes that the land is more valuable and appealing to buyers without the site
 - With the site removed buyers could build a cabin on the land



- •Red Mtn. SNOTEL is the highest SNOTEL in the area and provides some of the only late season snowpack information when snow remains at the higher elevations.
 - •Example May and June snowpack observations

Red Mountain SNOTEL

- •Red Mountain SNOTEL was installed on a patented mining claim back in 1978
- •Has direct impact on 5 forecast points:

Animas

Ridgway

Uncompahgre

San Miguel

Lake Fork

•Large number of indirect or routed forecast points affected from the above including:

San Juan Bluff

Gunnison @ GJ

Colorado @ Cisco

Lake Powell



- •Simulations without Red Mtn. SNOTEL would increase forecast uncertainty during June 1 forecast date:
 - •19% at Ridgeway
 - •average 1.3 KAF (max 10.4 KAF)
 - •15% at Animas R at Durango
 - •Average 3.3 KAF (max 13.41 KAF)



Summary

- •Worst statewide start to a mountain snowpack season in since at least 1986. Daily snowpack records only go back to 1986.
- •Statewide snowpack as of 11/14/2016
 - Typically we are at 2.1 inches of Snow Water Equivalent (SWE)
 - Currently at 0.1 inches SWE (6% of CO's median Snowpack at this time)
 - Second worst year was 2000 at 0.2 inches SWE
- •CO would have to receive 114% of normal snowpack accumulation for remainder of season to get to a normal peak
- •October mountain precipitation poor across the state, November so far is near broke, as of Nov 14th – 1.4 inches
 - 2nd worst start for mountain precip, only 2000 (0.9 inches) worse
 - 2002 slightly better start at 1.9 inches
- •Reservoir storage is the only bright spot, at 104% of normal

Water Availability Task Force Meeting November 15th, 2016

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos
Snow Survey Supervisor
720-544-2852

http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/





