



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

November 17th, 2015

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

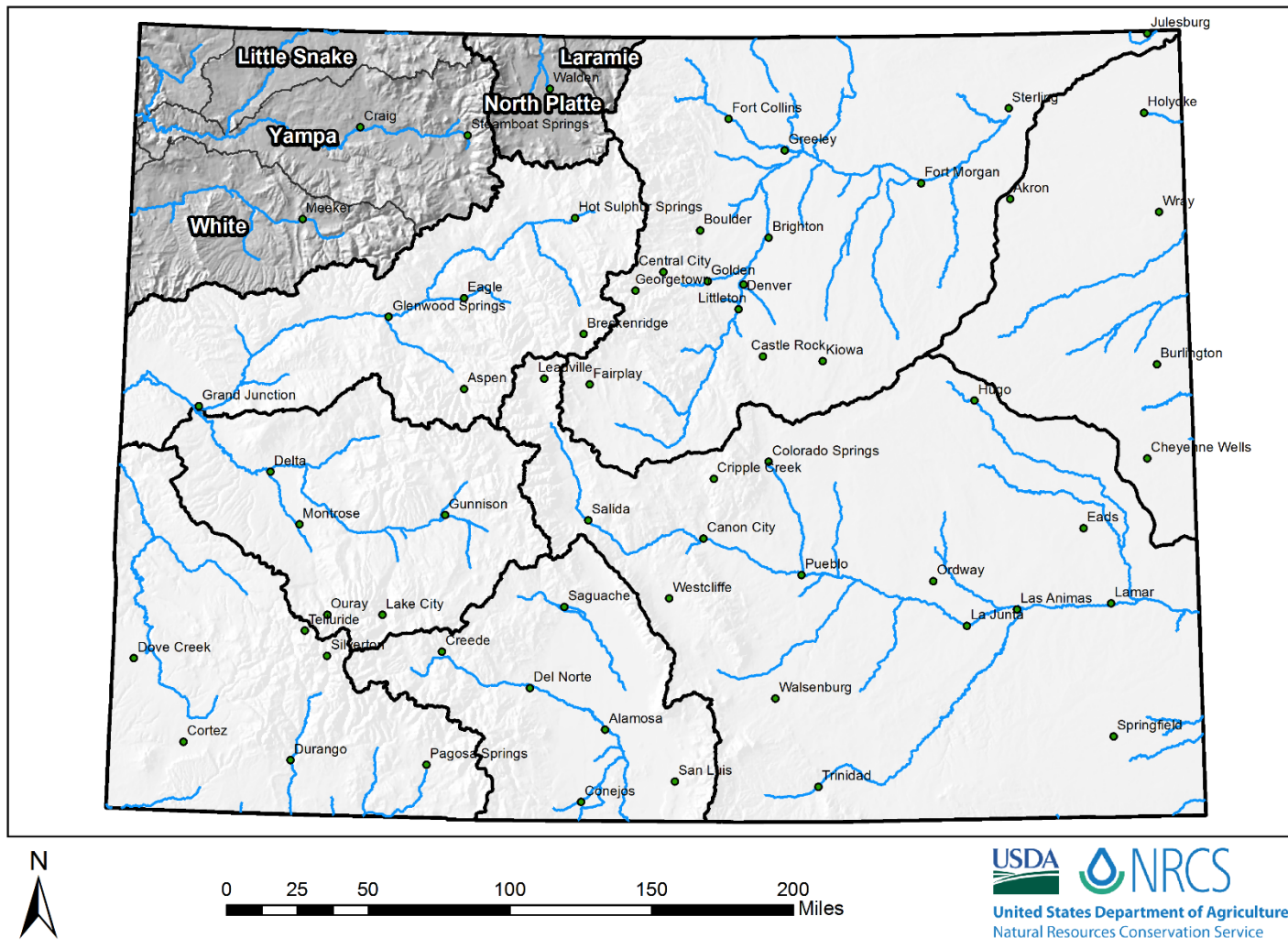
Hydrologist

720-544-2853

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

Major Basin Summary

Yampa, White, and North Platte River Basins



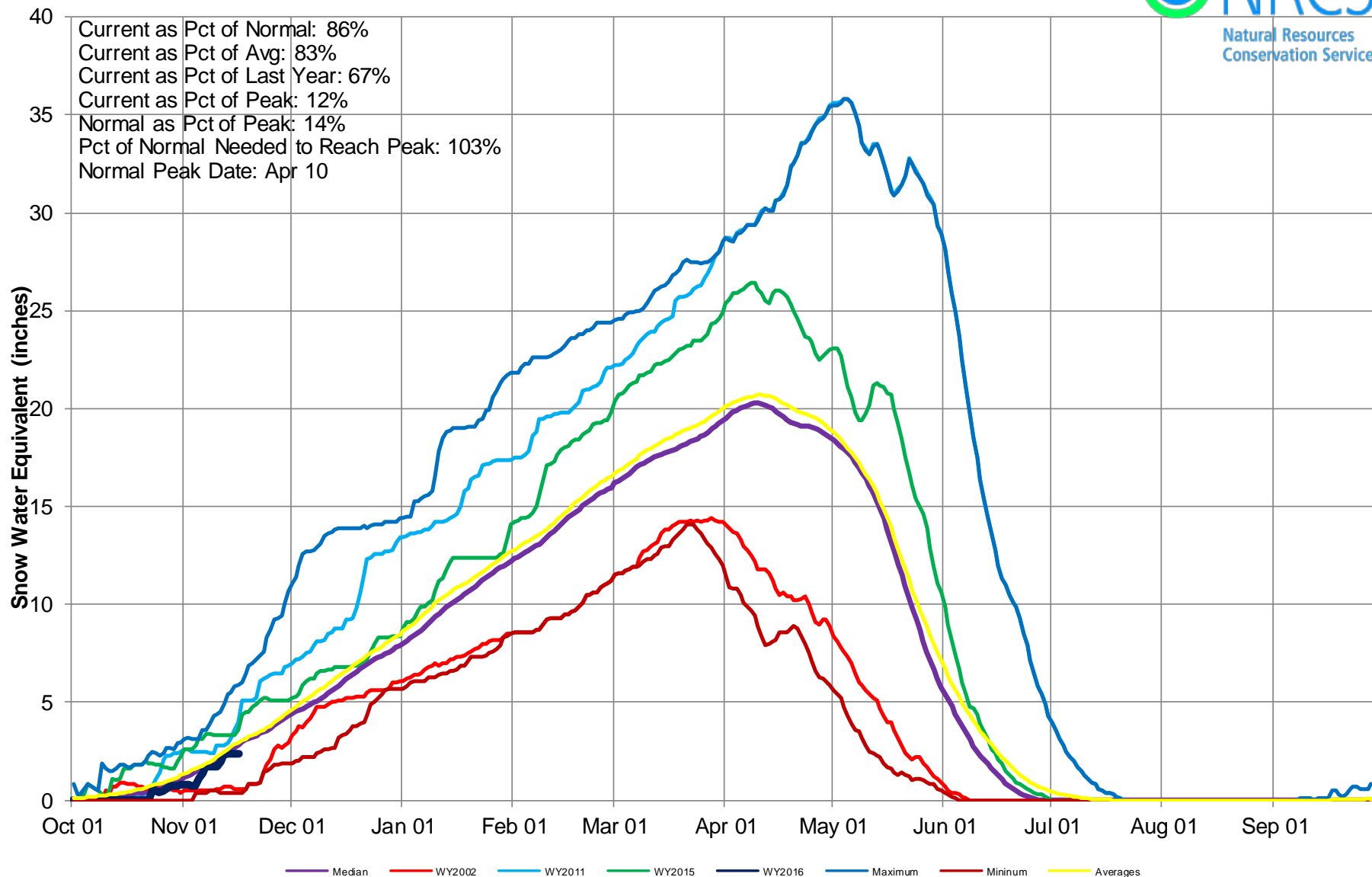


United States Department of Agriculture

Colorado Snow Surveys

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

Based on Provisional SNOTEL data as of Nov 16, 2015



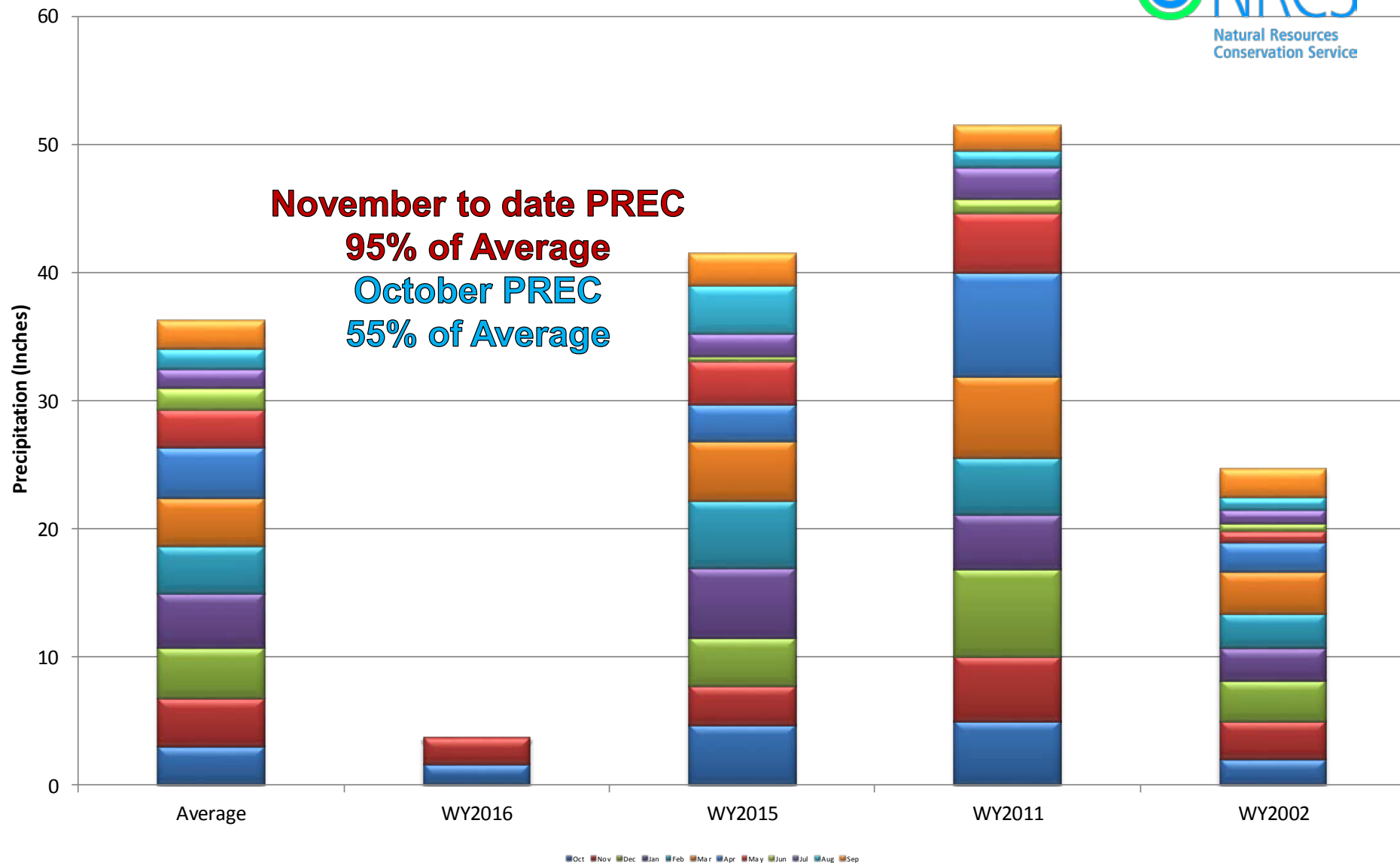


United States Department of Agriculture

Colorado Snow Surveys

Yampa & White River Basins High/Low Monthly Precipitation Summary

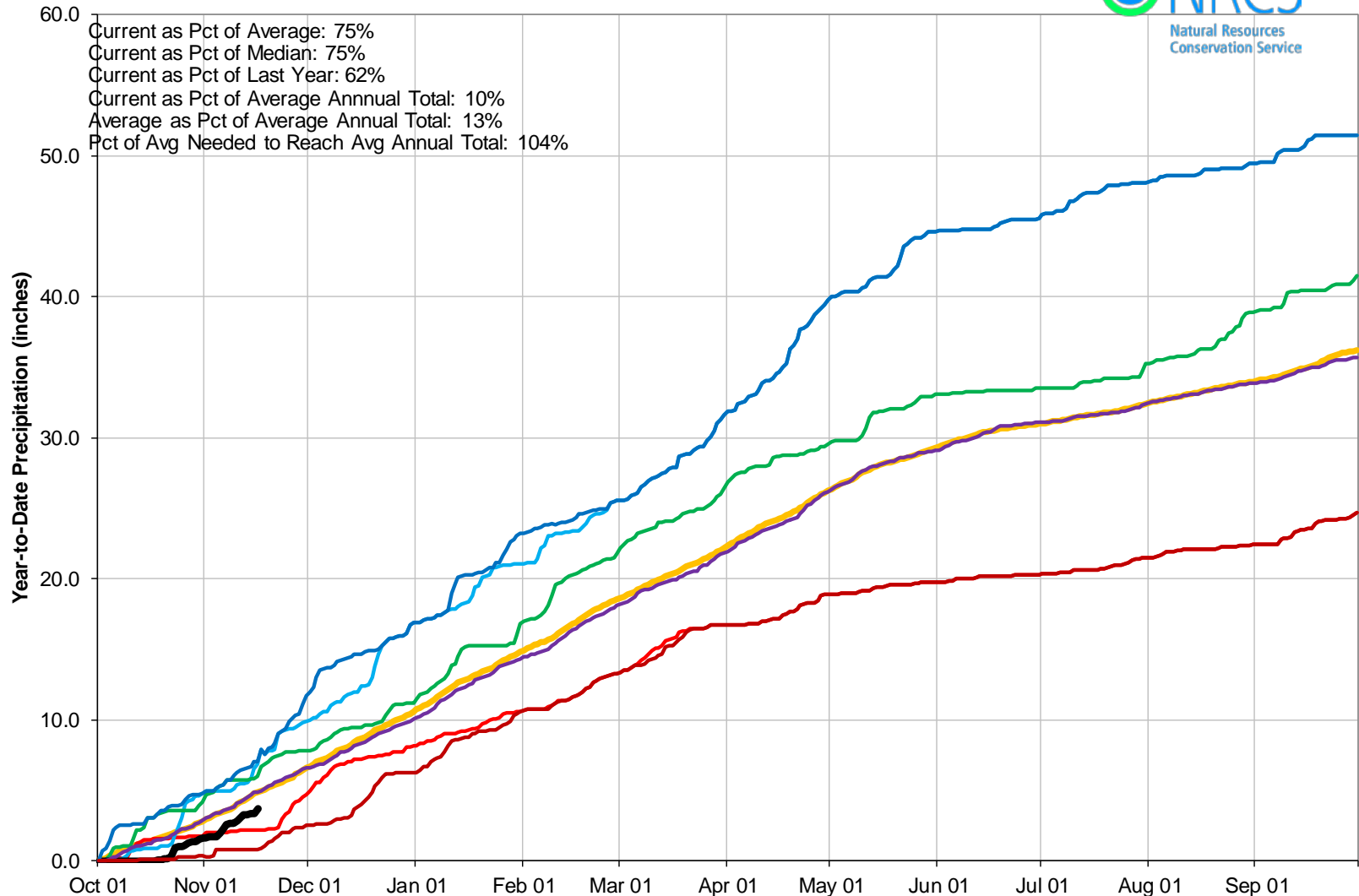
Based on Provisional SNOTEL data as of Nov 16, 2015





Yampa & White River Basins High/Low Year-to-Date Precipitation Summary

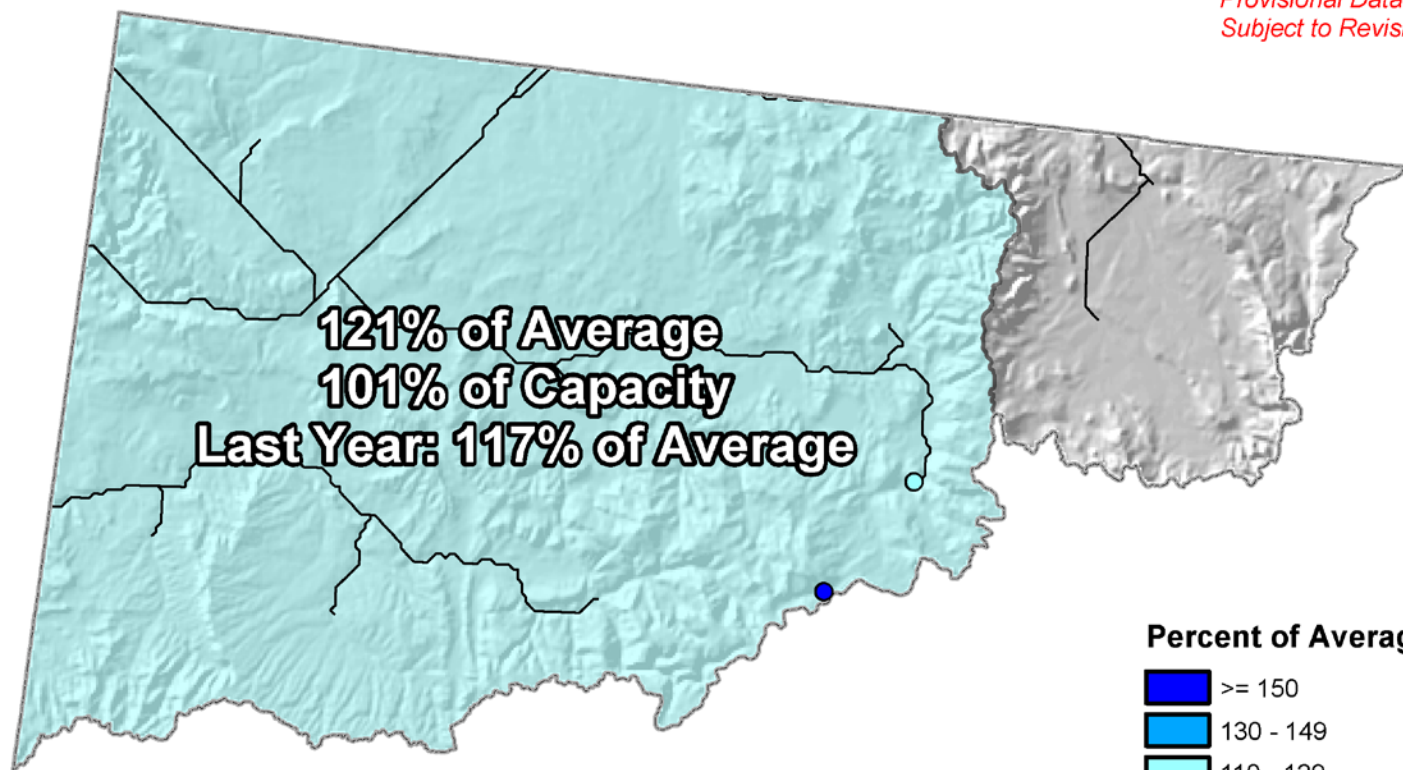
Based on Provisional SNOTEL data as of Nov 16, 2015



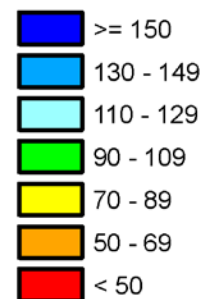
Yampa & White River Basins Reservoir Storage Map



*Provisional Data
Subject to Revision*

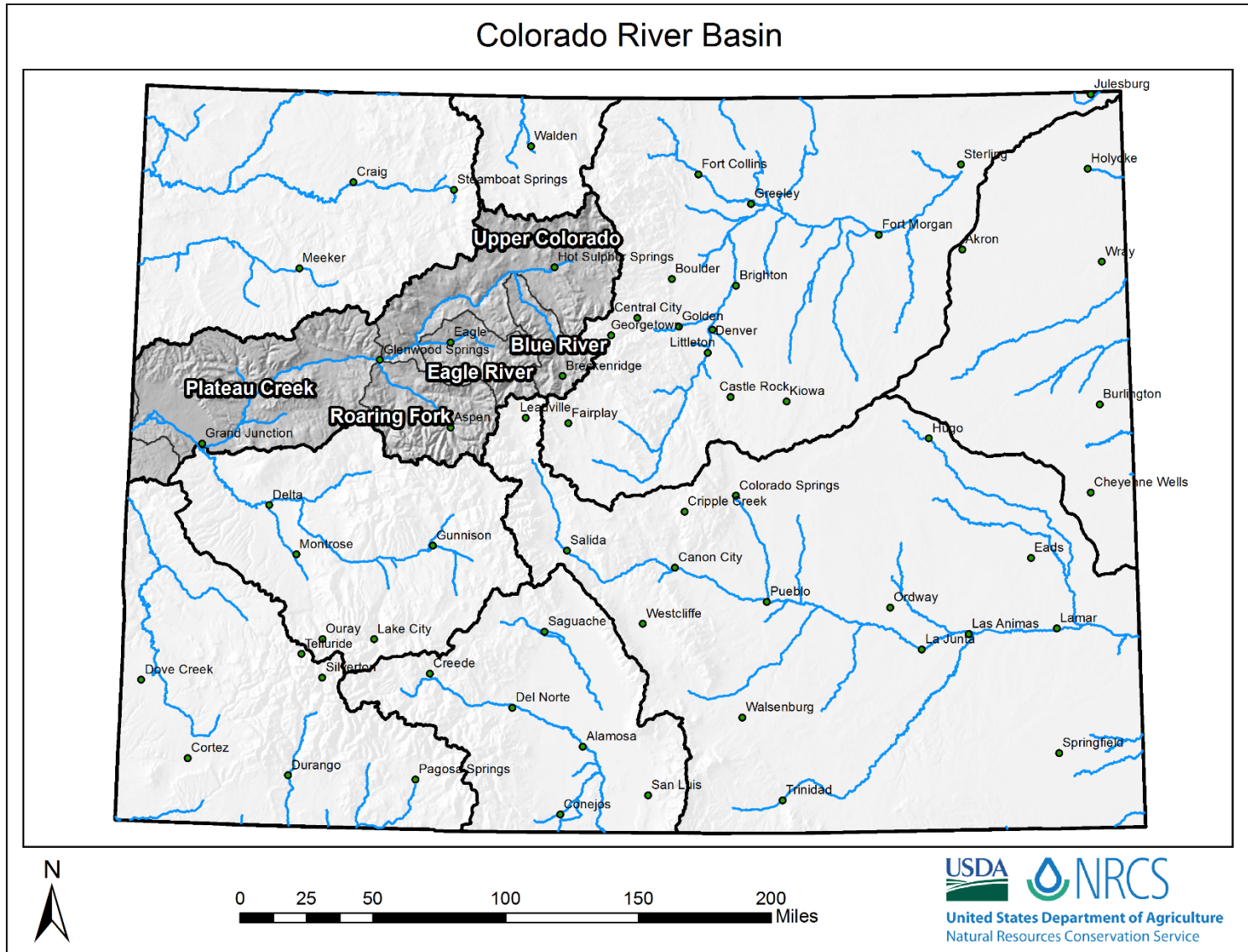


Percent of Average



End of October 2015

Major Basin Summary



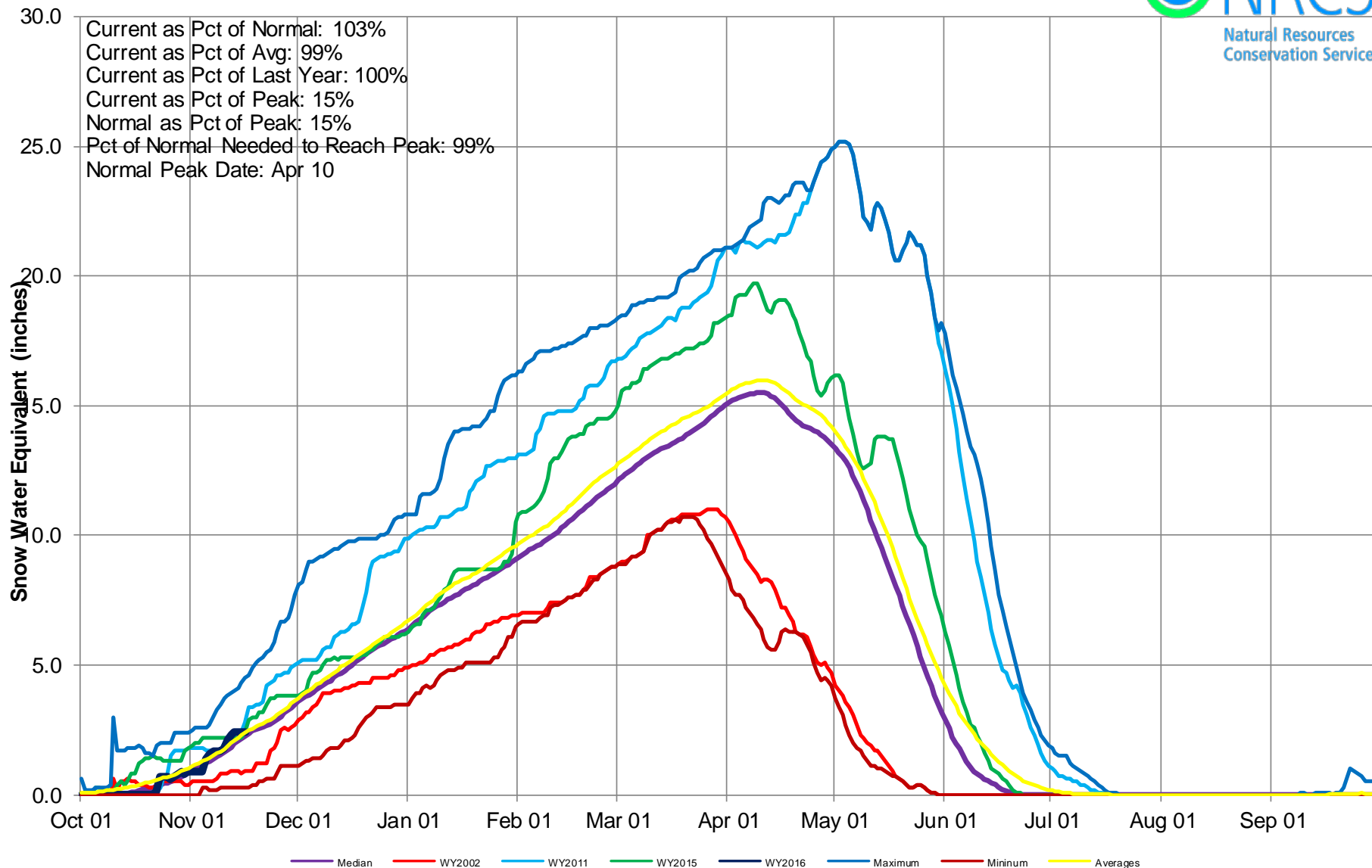


United States Department of Agriculture

Colorado Snow Surveys

Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Nov 16, 2015





United States Department of Agriculture

Colorado Snow Surveys

Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Nov 16, 2015

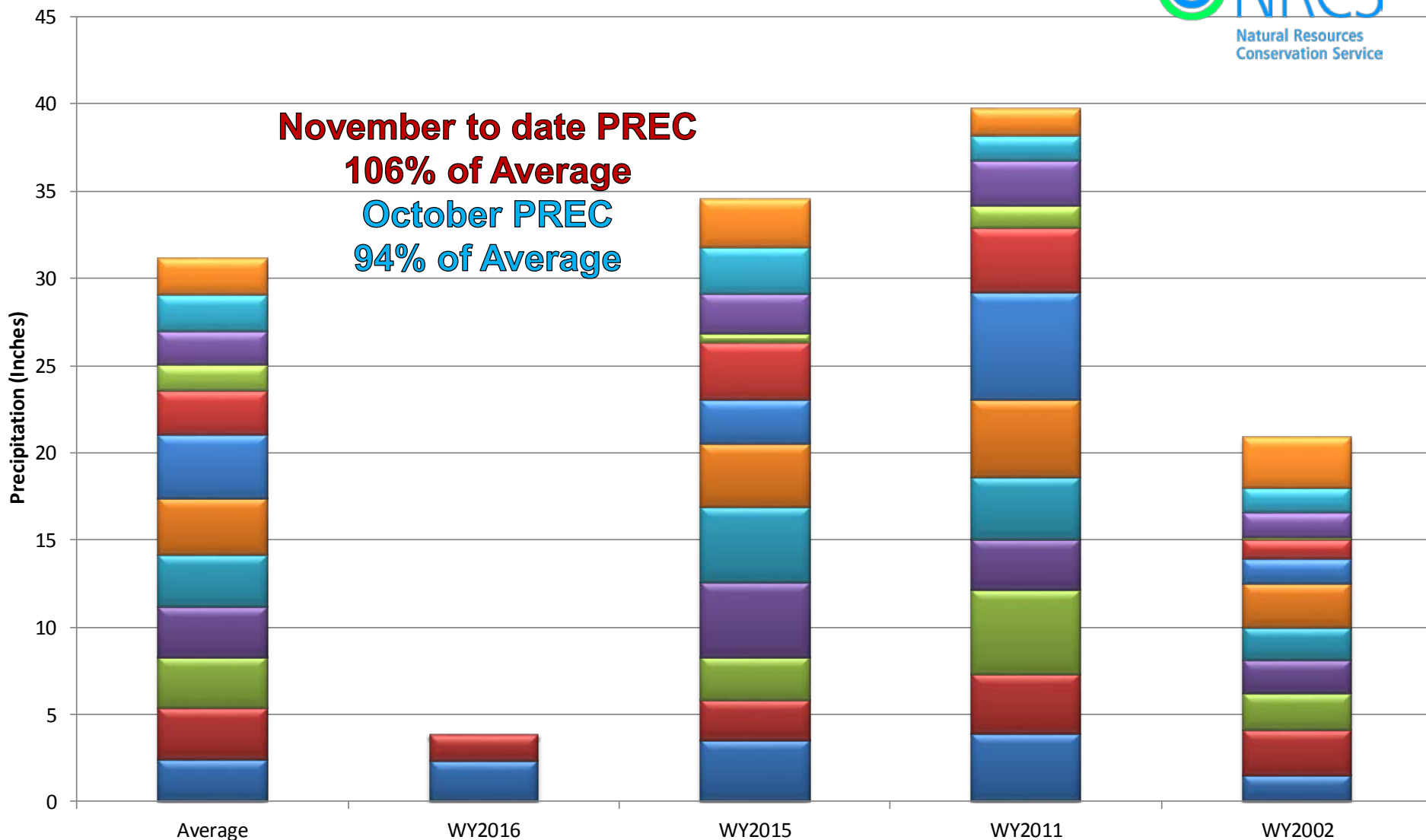


November to date PREC

106% of Average

October PREC

94% of Average

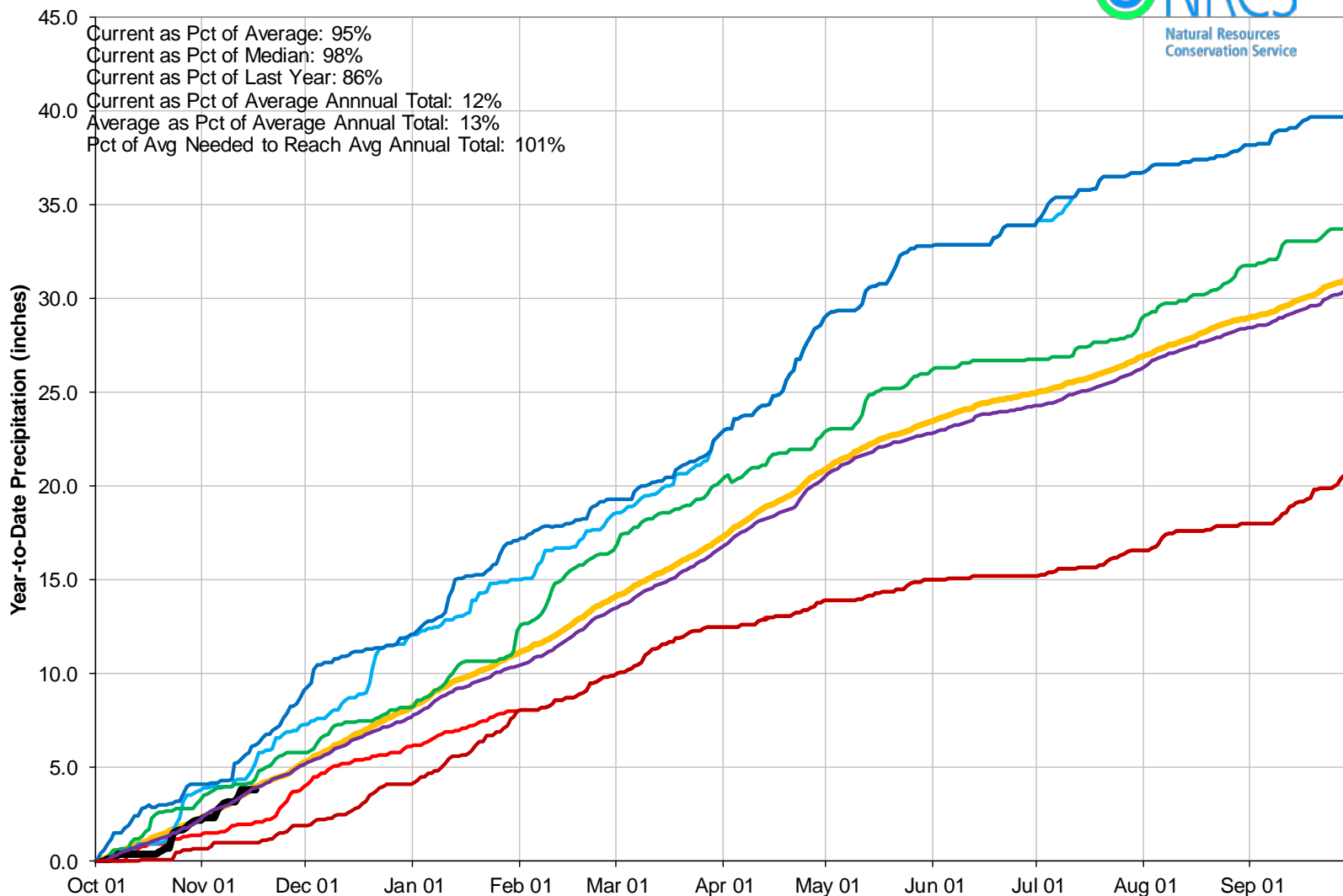


Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep



Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

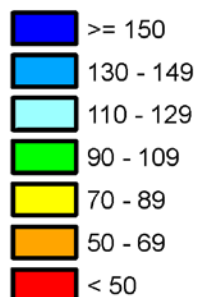
Based on Provisional SNOTEL data as of Nov 16, 2015



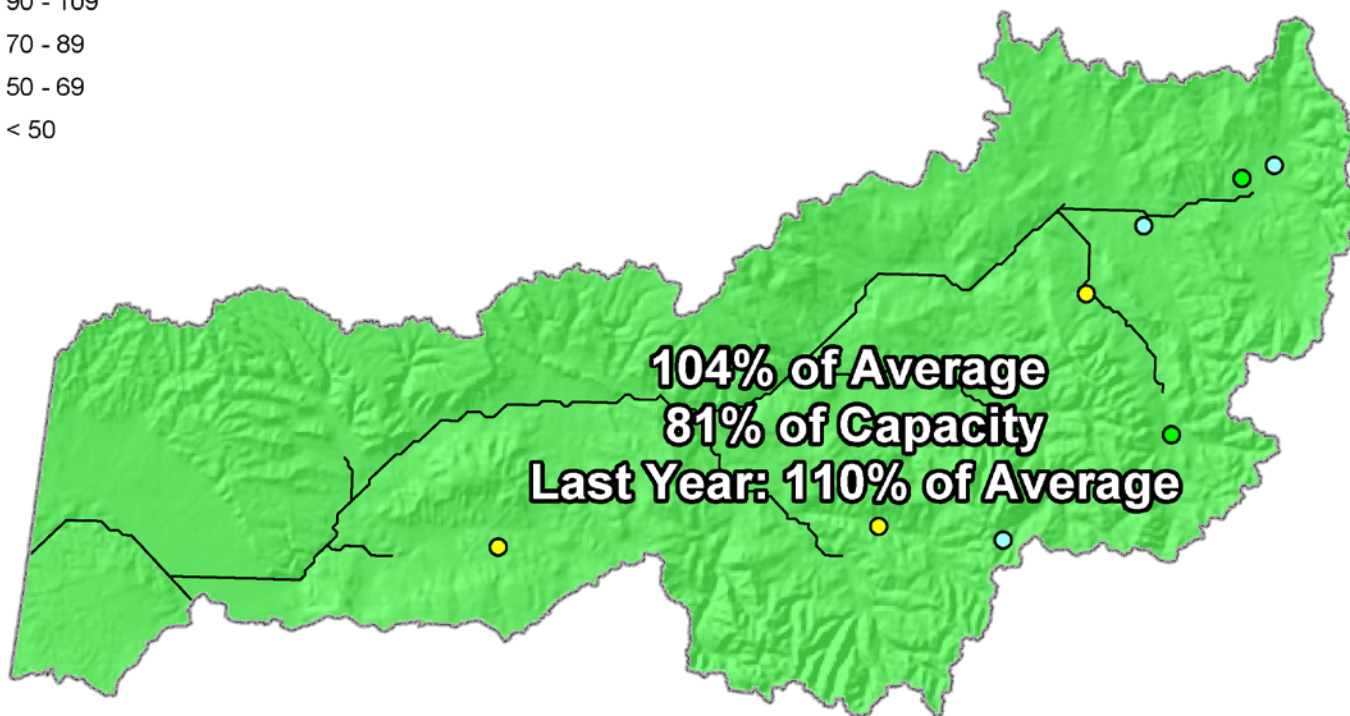
Colorado River Basin Reservoir Storage Map



Percent of Average



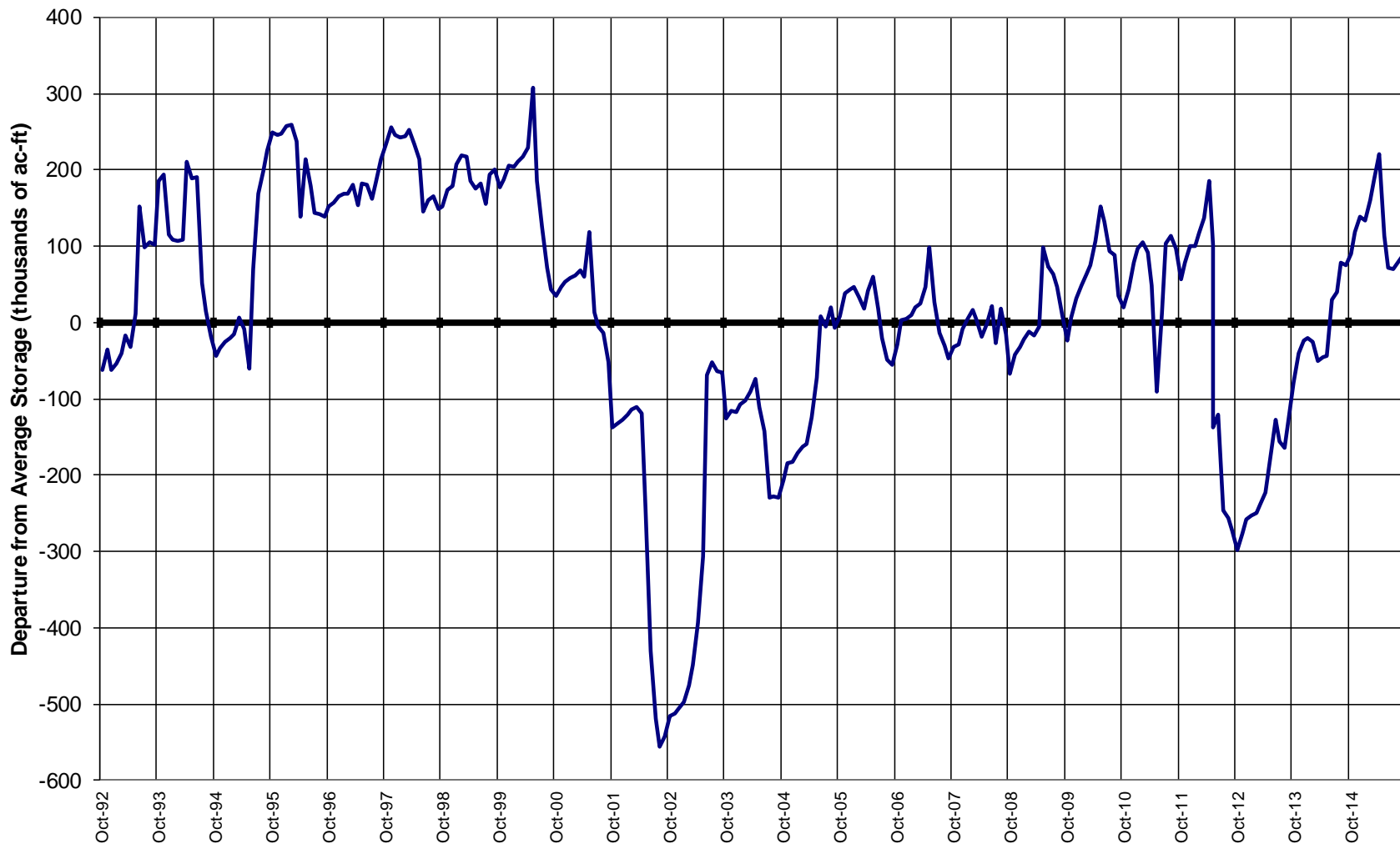
*Provisional Data
Subject to Revision*



End of October 2015



COLORADO RIVER BASIN Reservoir Storage Departure from Average



A map of Colorado illustrating the major river basins and their associated cities. The basins are labeled in bold black text: Cache La Poudre, Big Thompson, Boulder-St. Vrain, Clear Creek, and Upper South Platte. The map shows the state's boundaries, major rivers in blue, and numerous cities marked with green dots. The terrain is depicted with light gray shading to represent mountainous regions. The cities shown include Julesburg, Holyoke, Wray, Burlington, Cheyenne Wells, Eads, Las Animas, Lamar, La Junta, Ordway, Pueblo, Canon City, Cripple Creek, Colorado Springs, Hugo, Castle Rock, Kiowa, Littleton, Denver, Golden, Boulder, Brighton, Fort Morgan, Akron, Sterling, Greeley, Fort Collins, Walden, Steamboat Springs, Craig, Meeker, Eagle, Glenwood Springs, Aspen, Leadville, Fairplay, Grand Junction, Delta, Montrose, Gunnison, Salida, Saguache, Westcliffe, Del Norte, Alamosa, San Luis, Trinidad, Walsenburg, Conejos, Pagosa Springs, Durango, Cortez, Dove Creek, Silverton, Telluride, Lake City, Ouray, and Grand Junction.



0 25 50 100 150 200 Miles

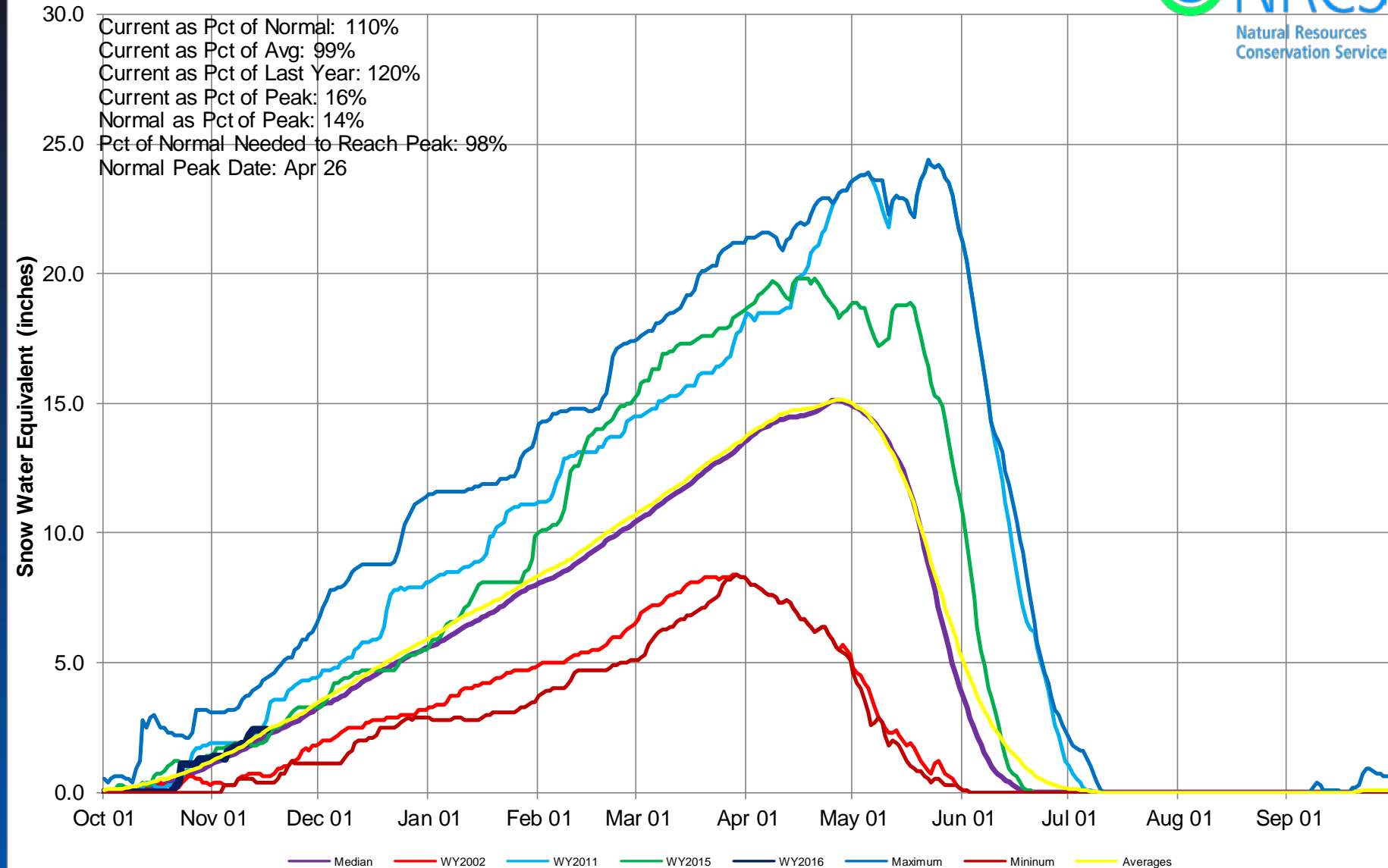


South Platte River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Nov 16, 2015



Current as Pct of Normal: 110%
Current as Pct of Avg: 99%
Current as Pct of Last Year: 120%
Current as Pct of Peak: 16%
Normal as Pct of Peak: 14%
Pct of Normal Needed to Reach Peak: 98%
Normal Peak Date: Apr 26



South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Nov 16, 2015

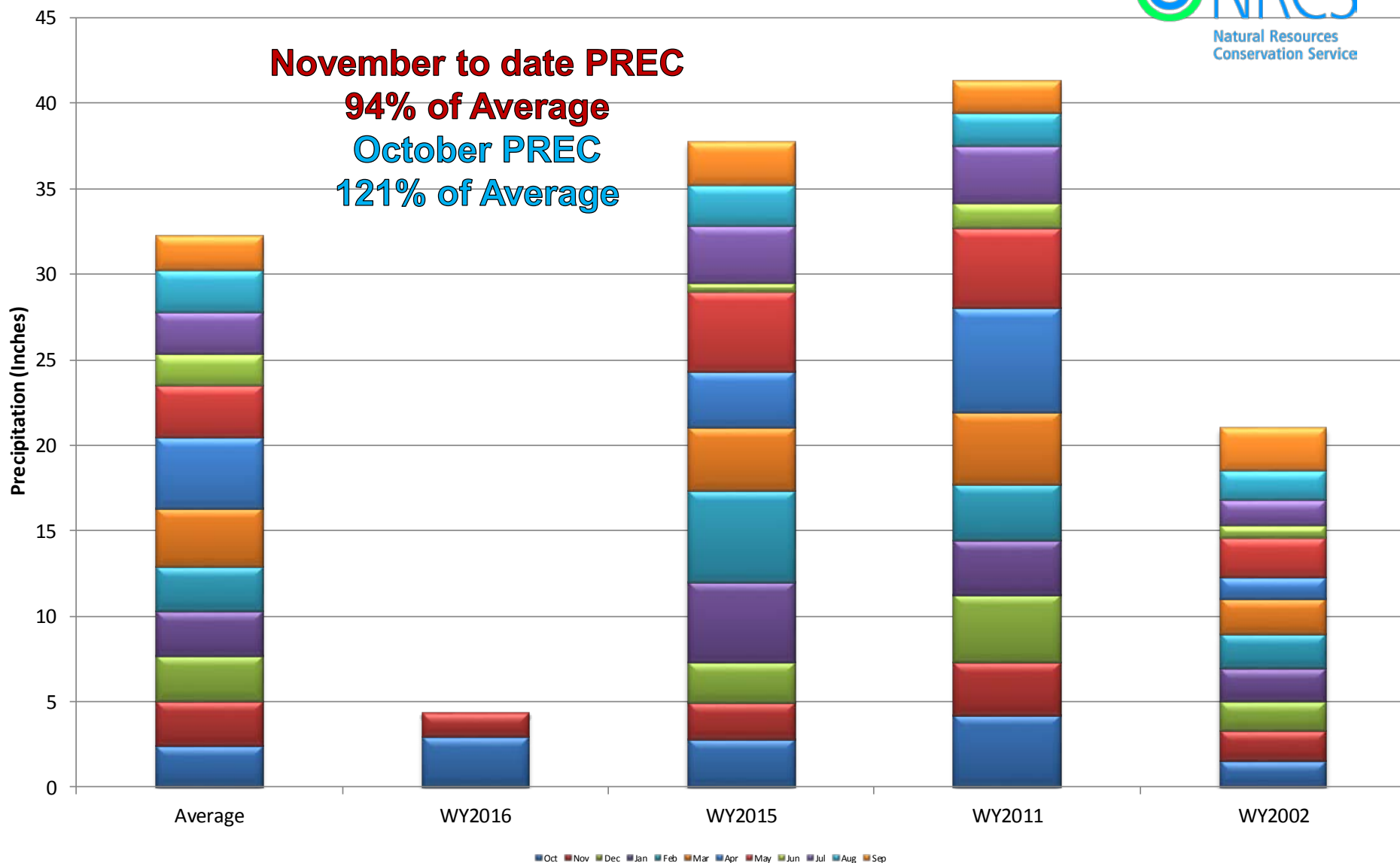


November to date PREC

94% of Average

October PREC

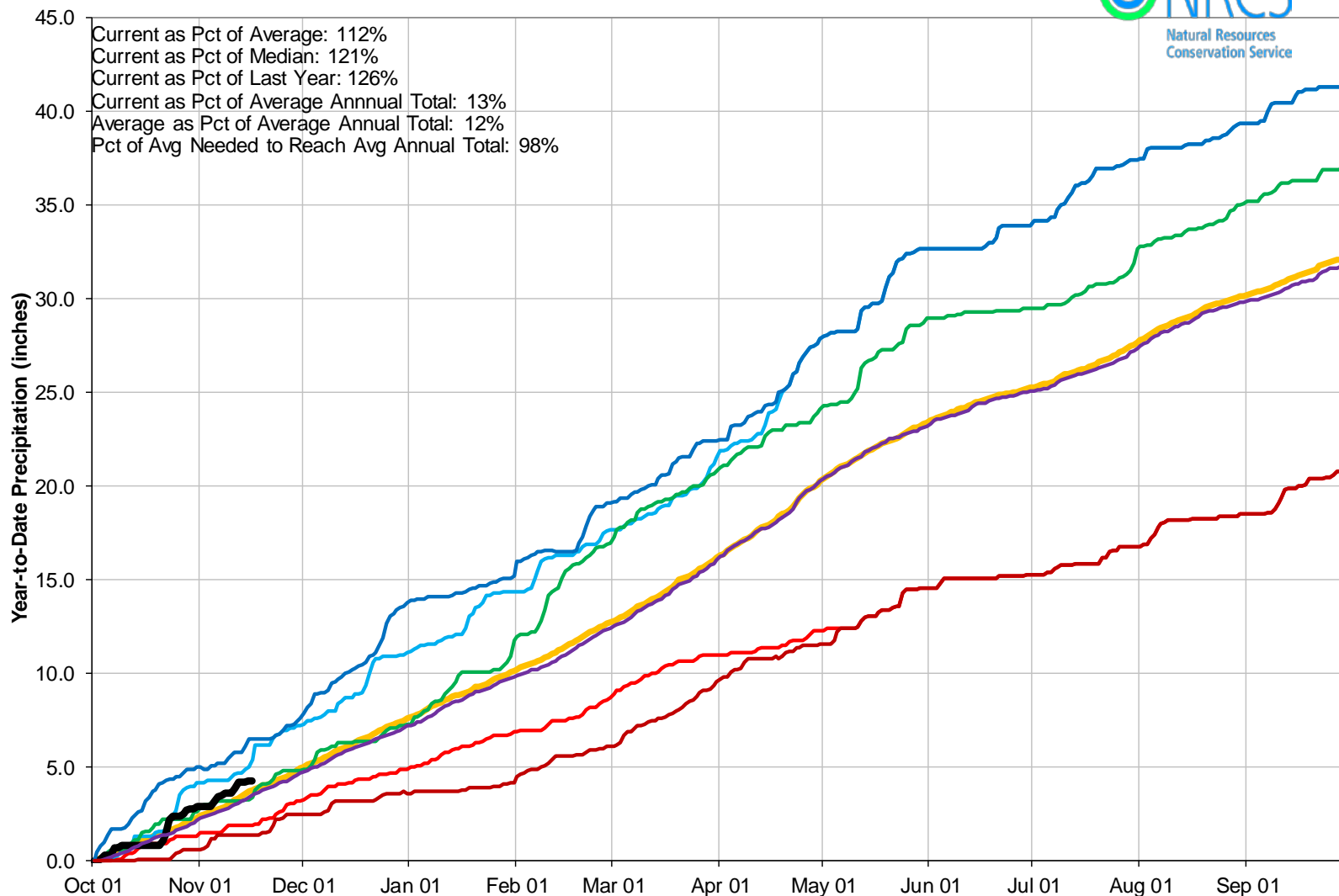
121% of Average





South Platte River Basin High/Low Year-to-Date Precipitation Summary

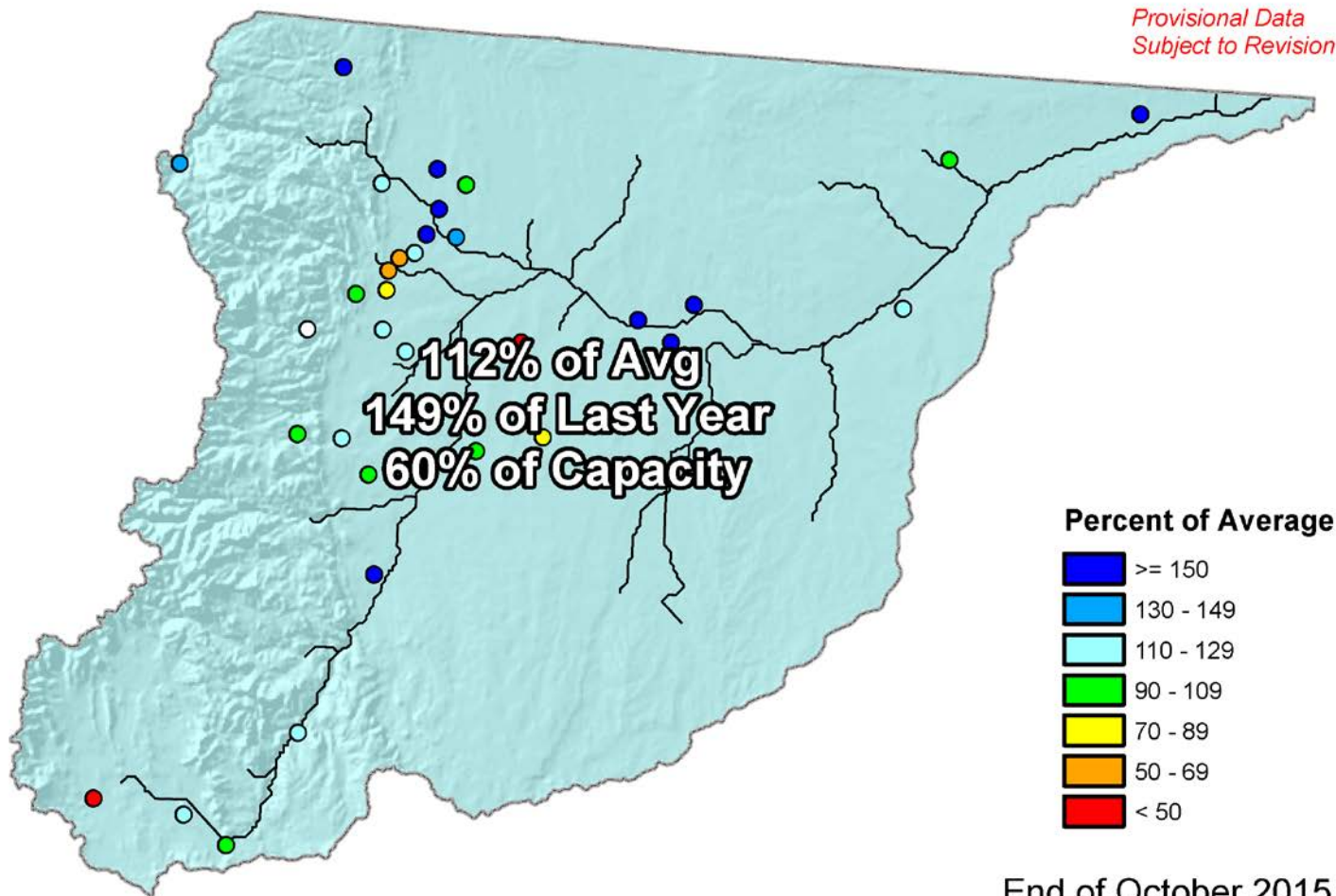
Based on Provisional SNOTEL data as of Nov 16, 2015



South Platte River Basin Reservoir Storage Map



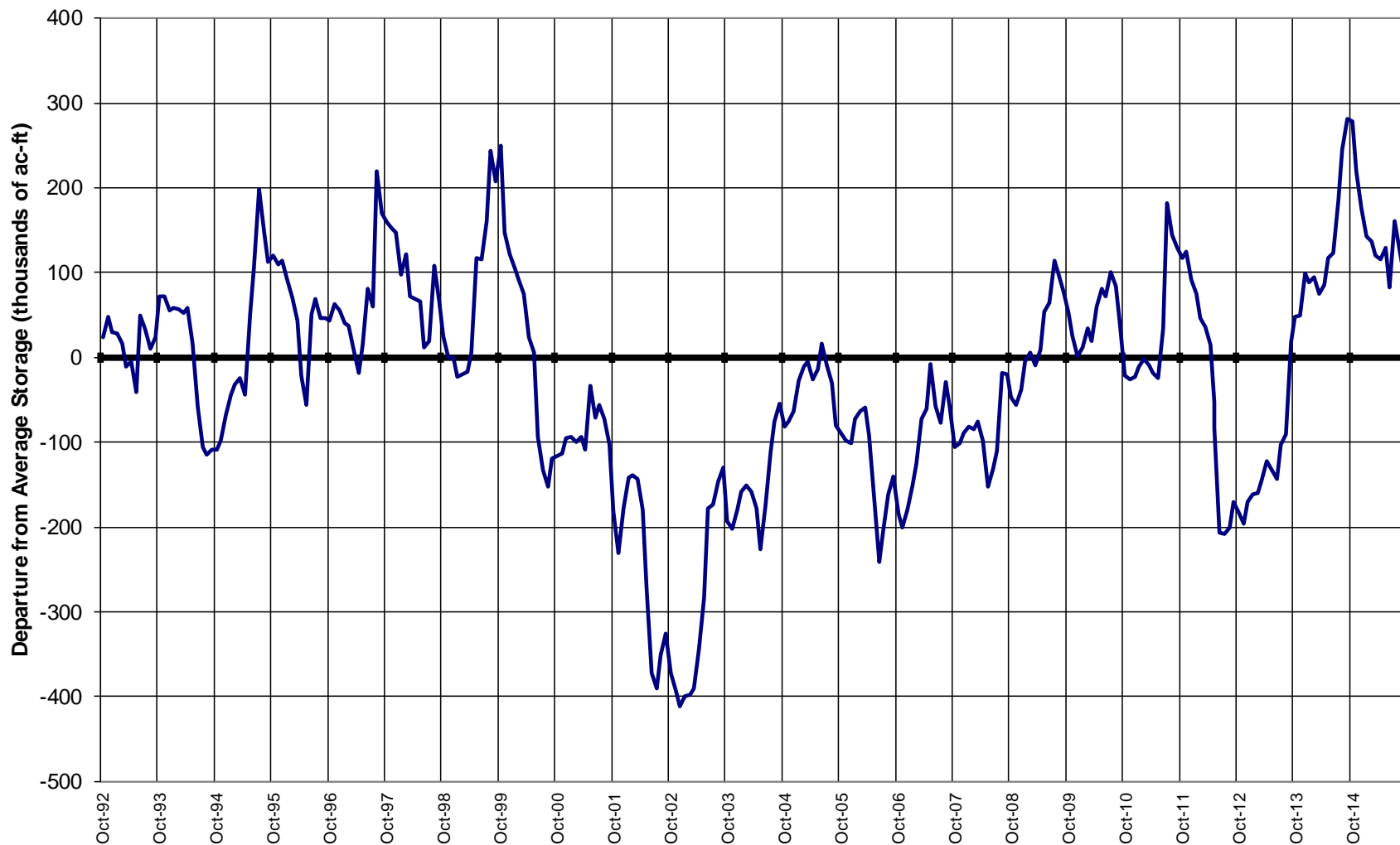
*Provisional Data
Subject to Revision*



End of October 2015

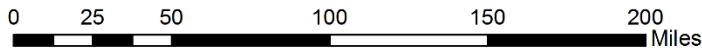
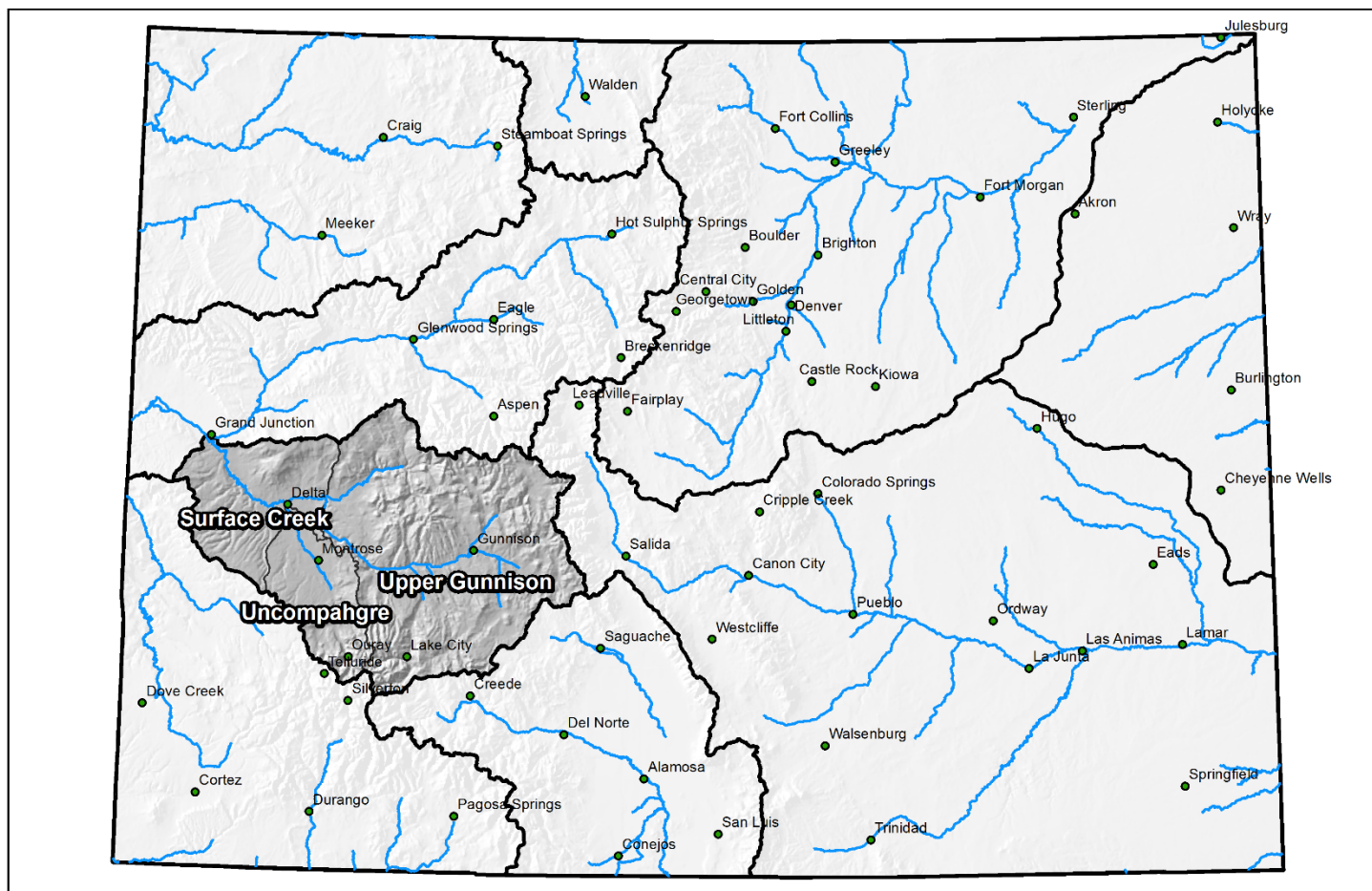


SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

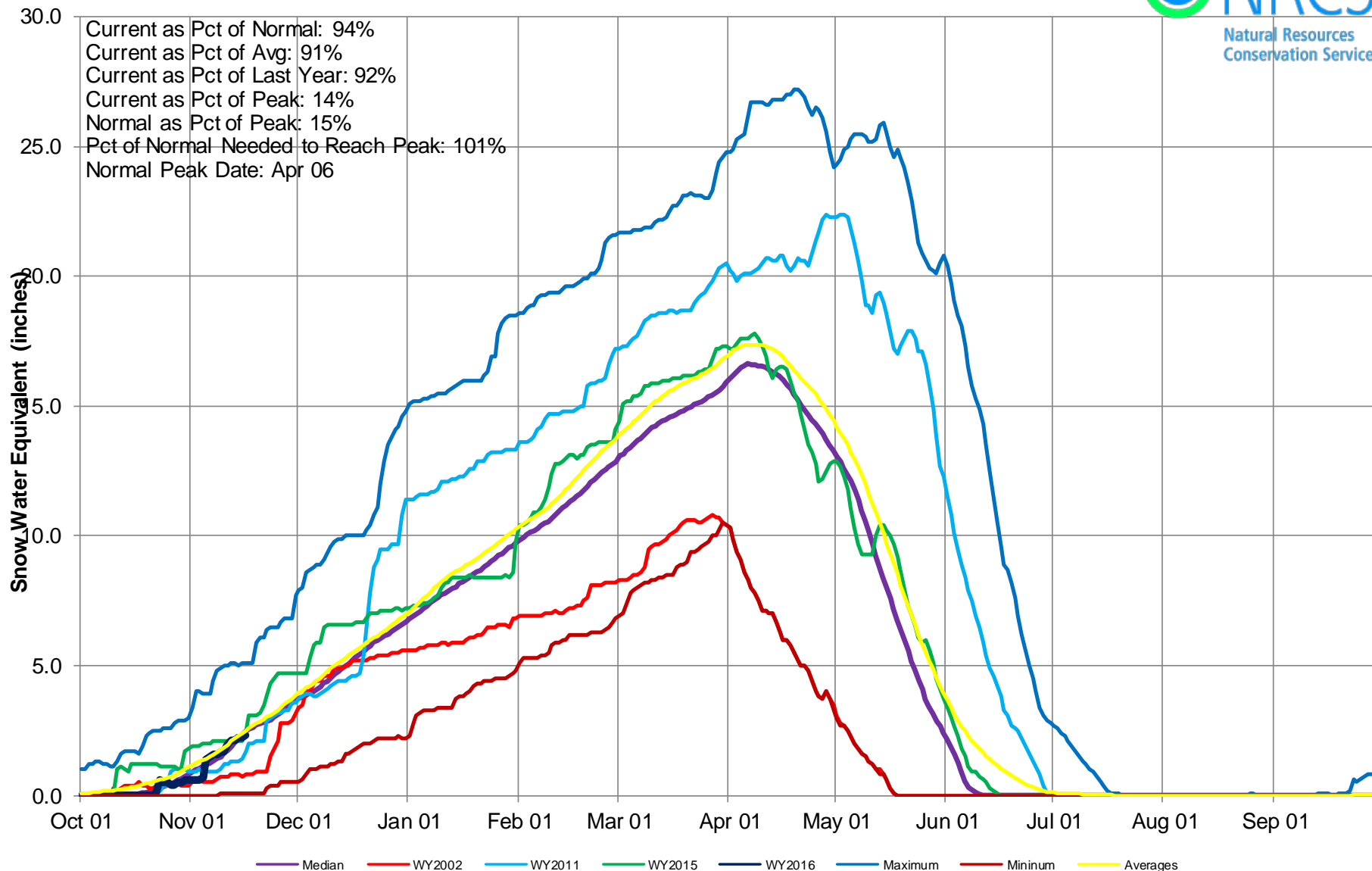
Gunnison River Basin





Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Nov 16, 2015





Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Nov 16, 2015

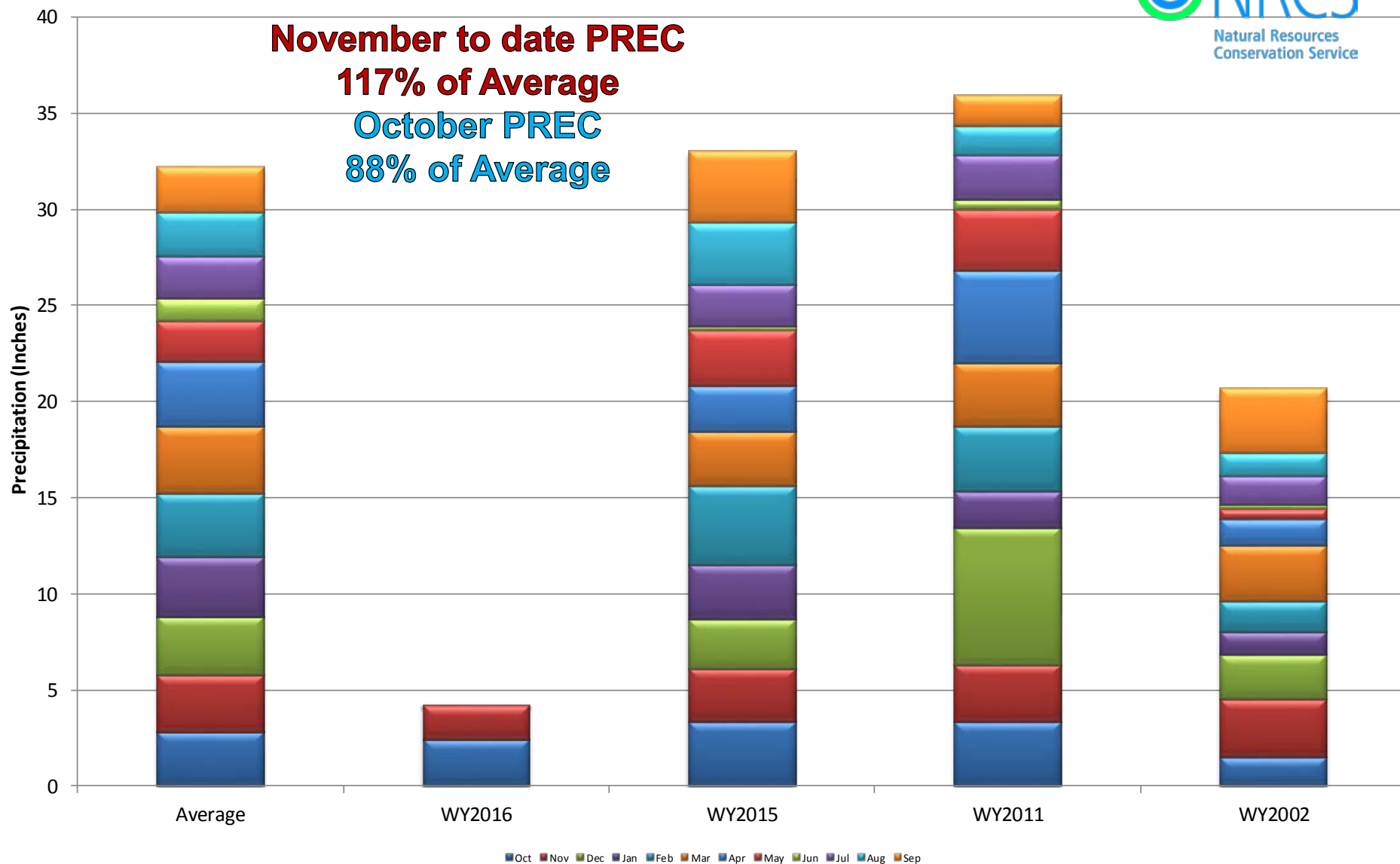


November to date PREC

117% of Average

October PREC

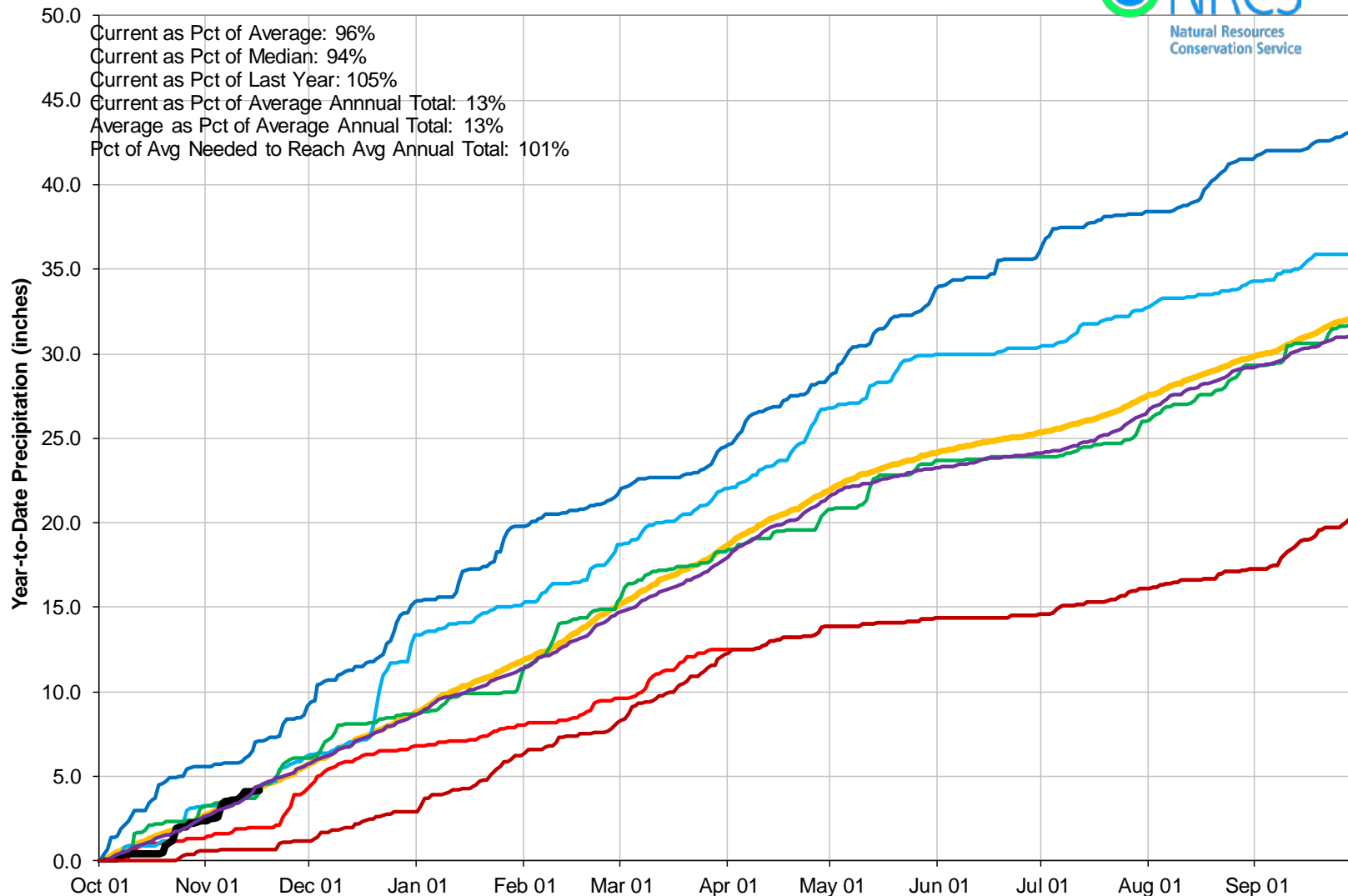
88% of Average





Gunnison River Basin High/Low Year-to-Date Precipitation Summary

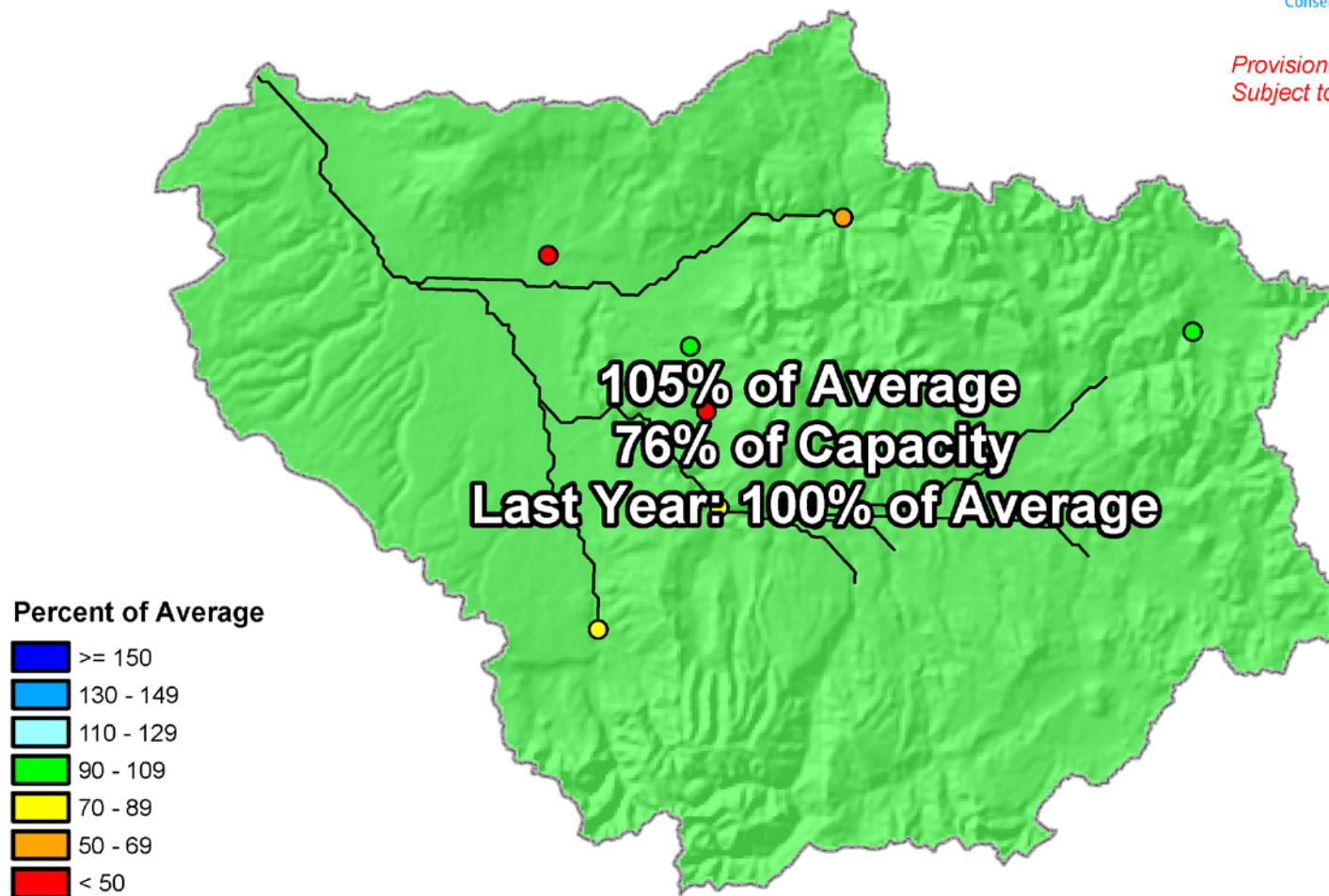
Based on Provisional SNOTEL data as of Nov 16, 2015



Gunnison River Basin Reservoir Storage Map



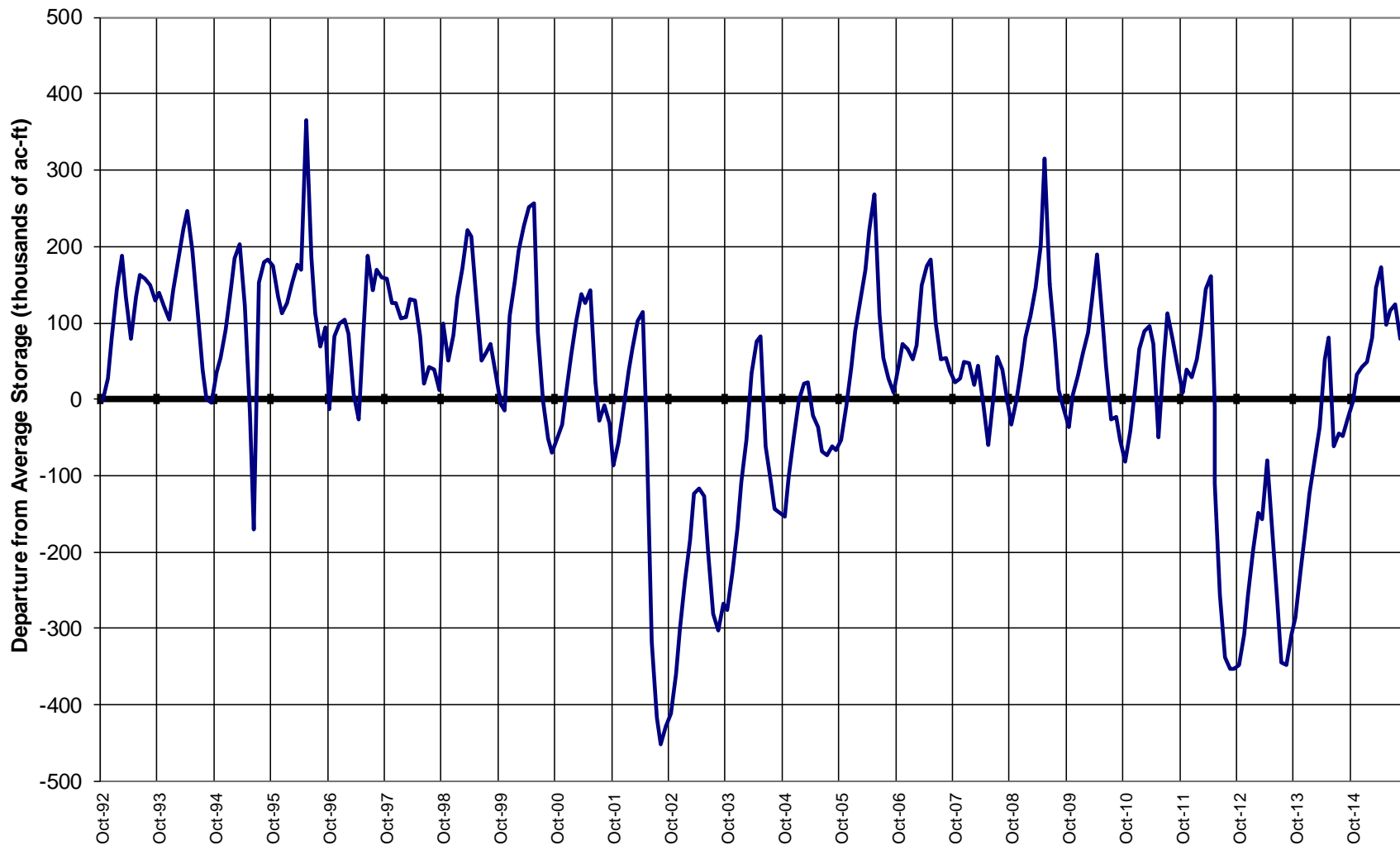
*Provisional Data
Subject to Revision*



End of October 2015

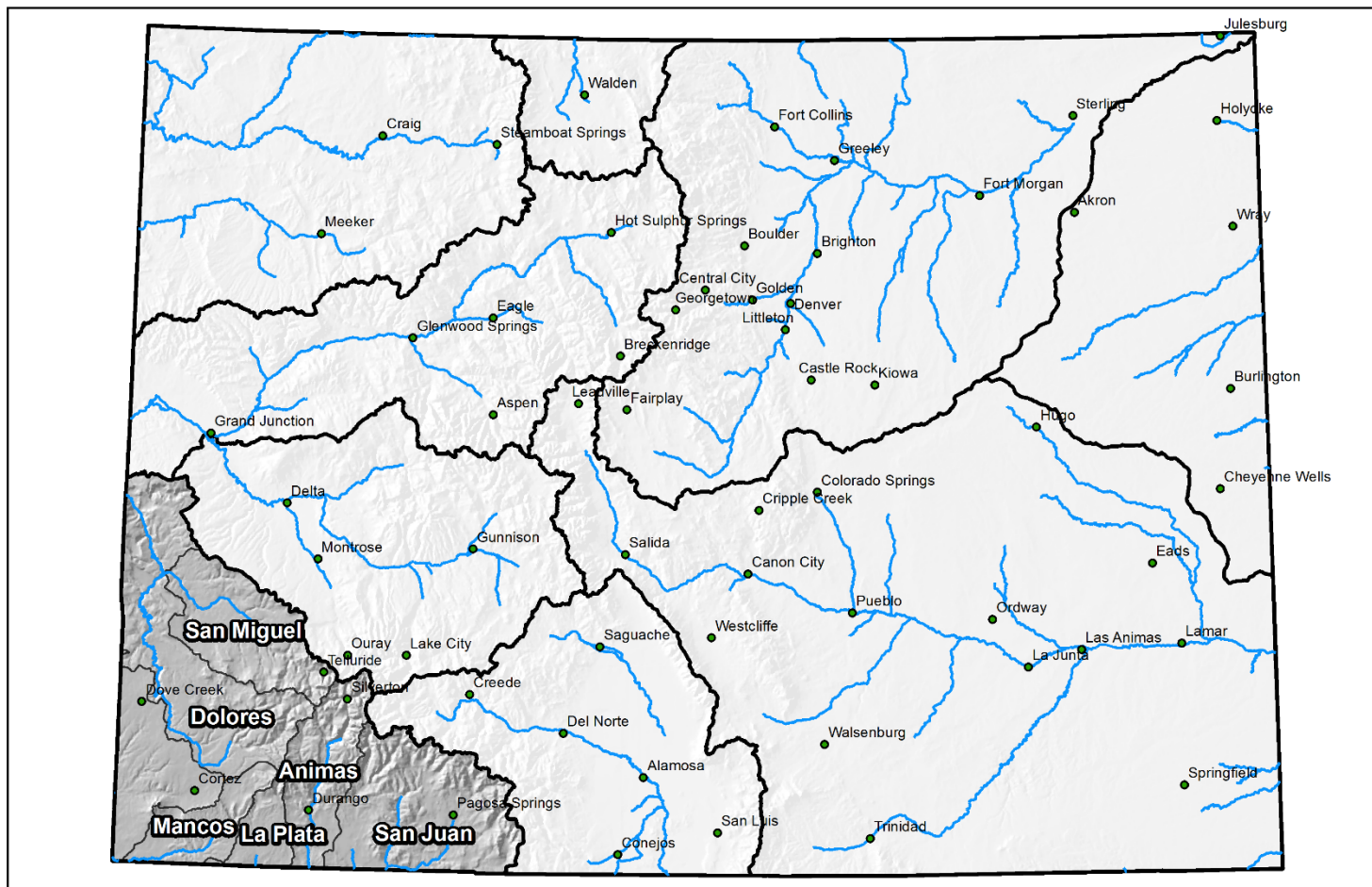


GUNNISON RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

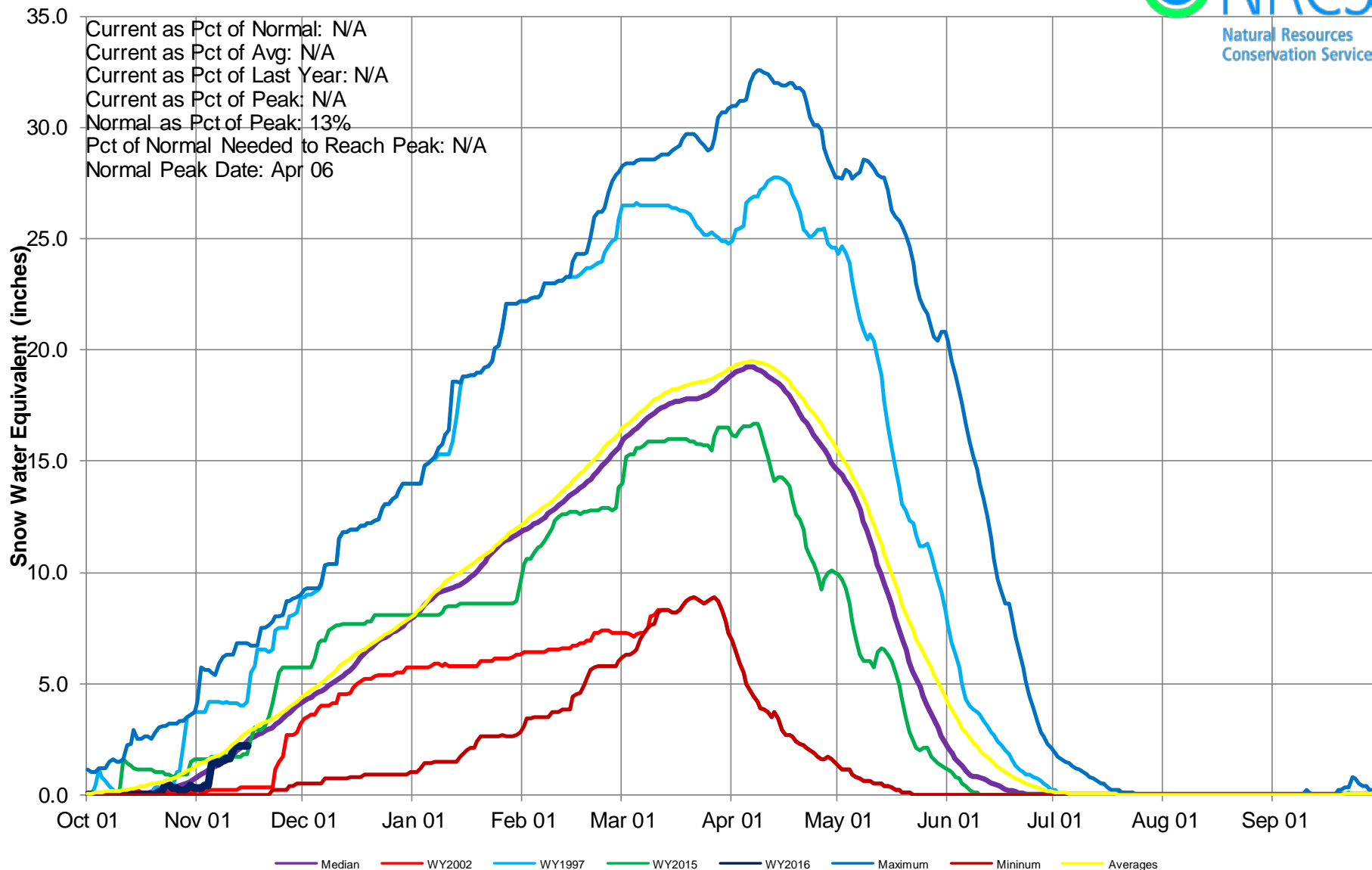
San Miguel, Dolores, Animas, and San Juan River Basins



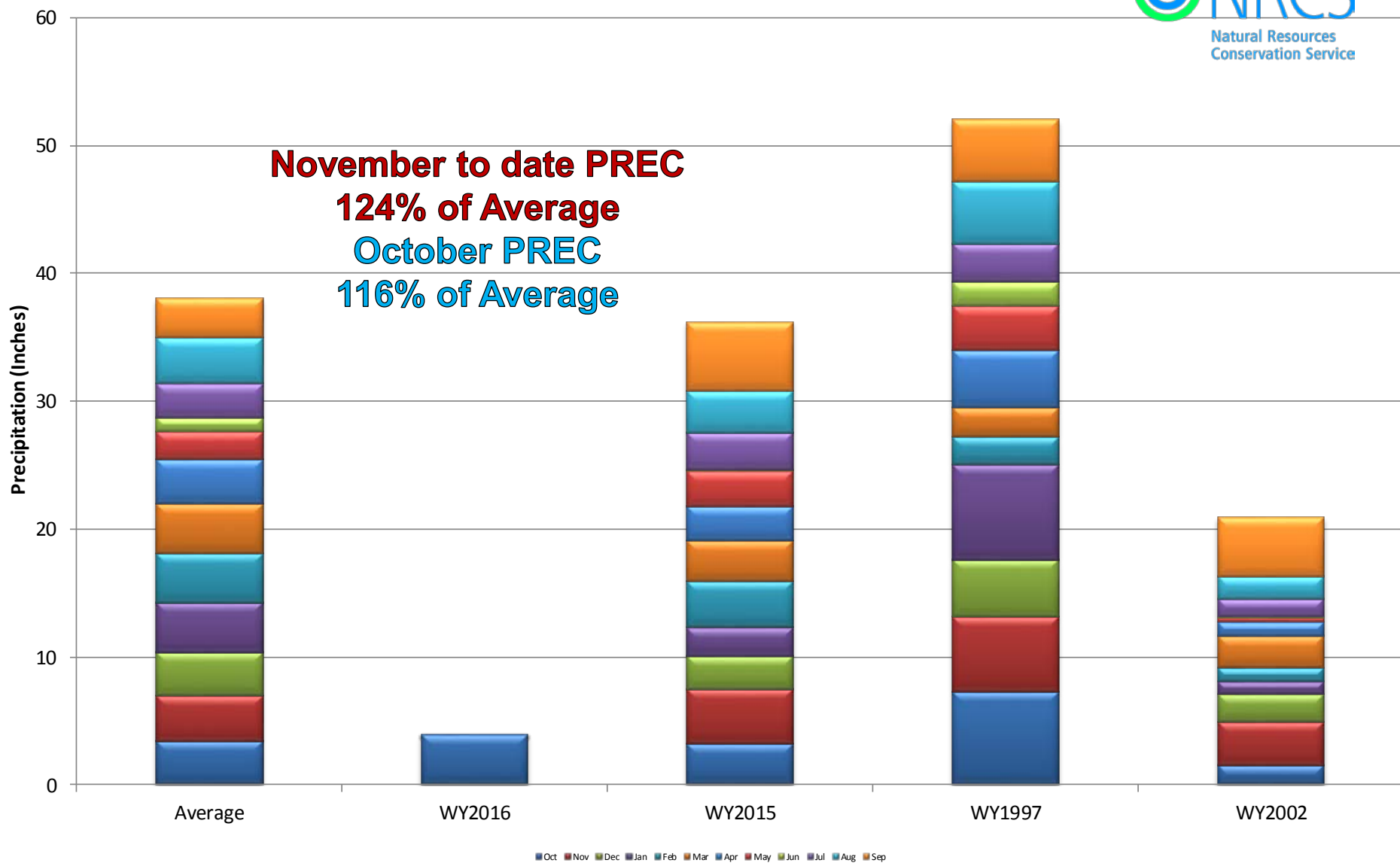
0 25 50 100 150 200 Miles

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

Based on Provisional SNOTEL data as of Nov 16, 2015



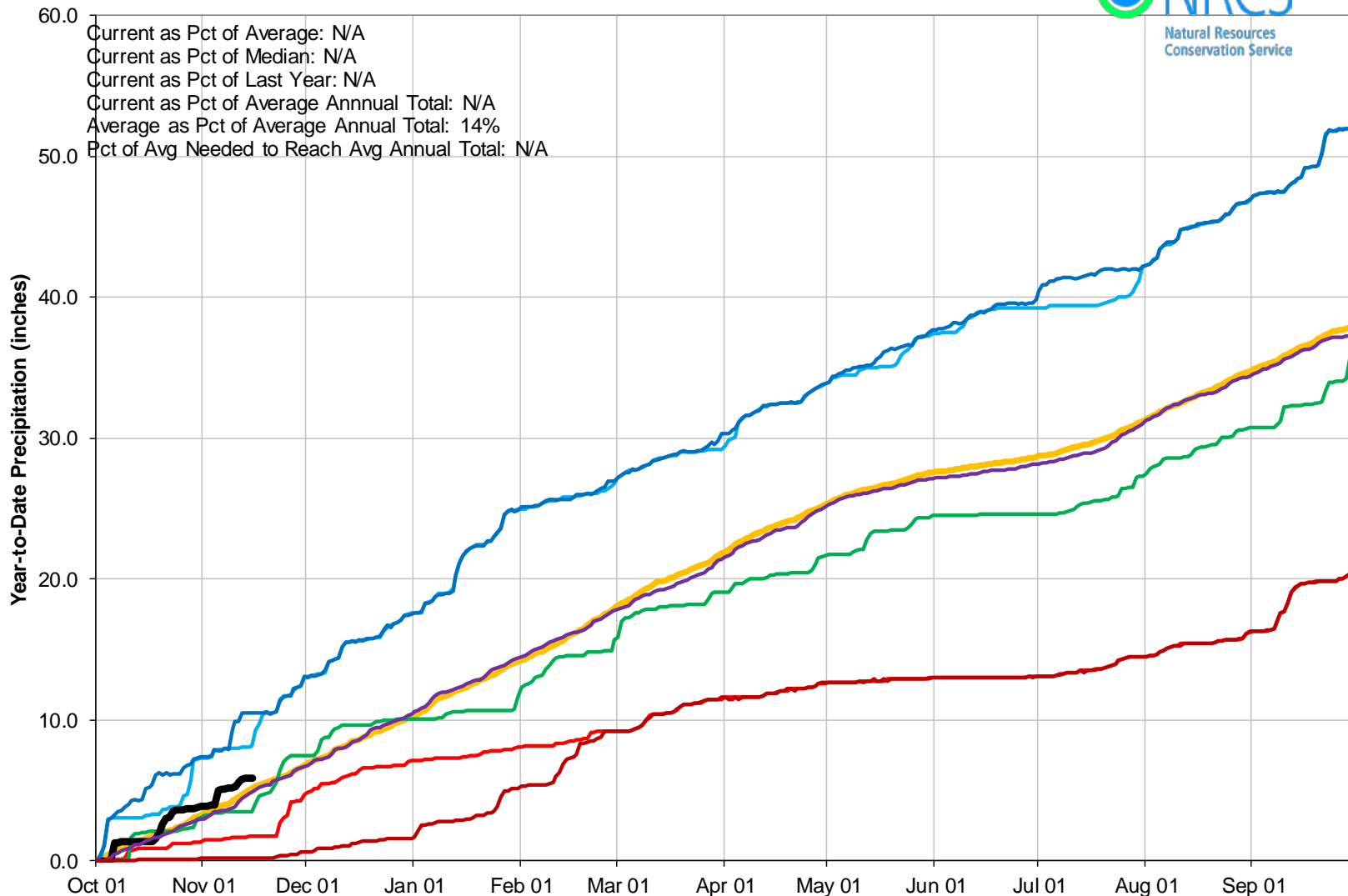
San Miguel, Dolores, Animas & San Juan River Basins High/Low Monthly Precipitation Summary





San Miguel, Dolores, Animas & San Juan River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Nov 16, 2015



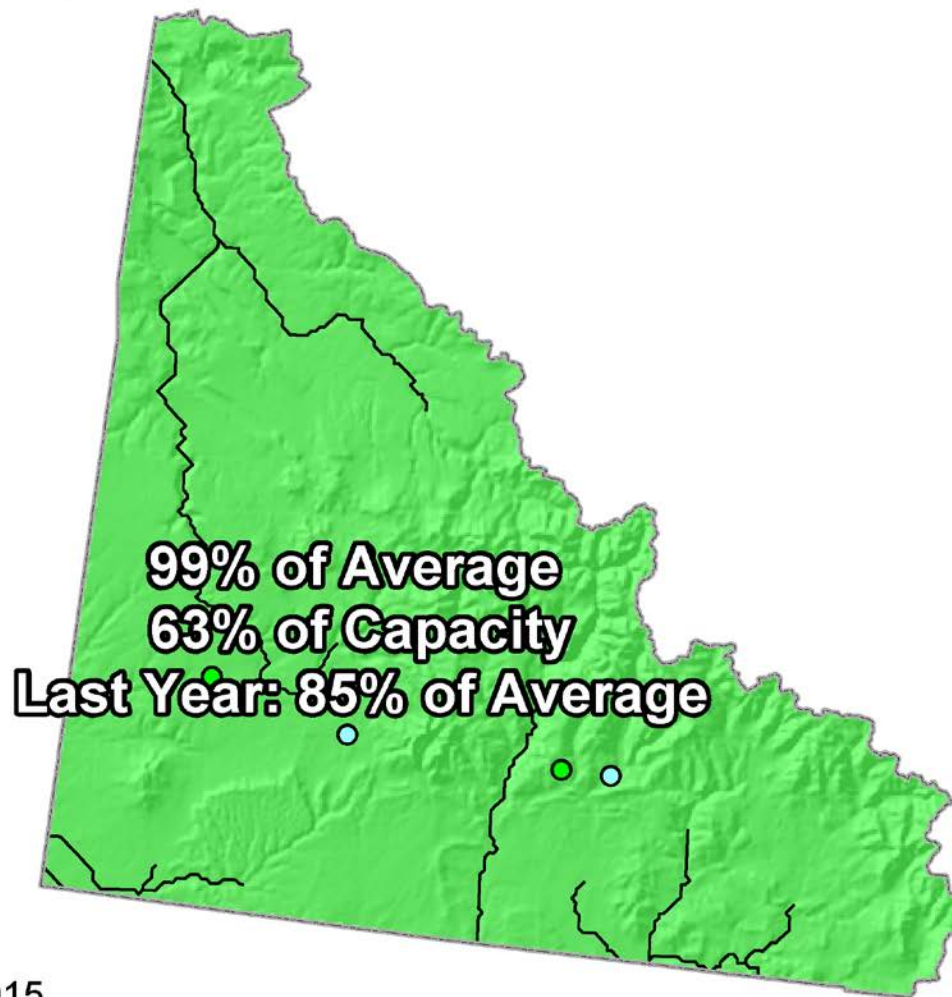
San Miguel, Dolores, Animas and San Juan River Basins Reservoir Storage Map



Percent of Average



*Provisional Data
Subject to Revision*

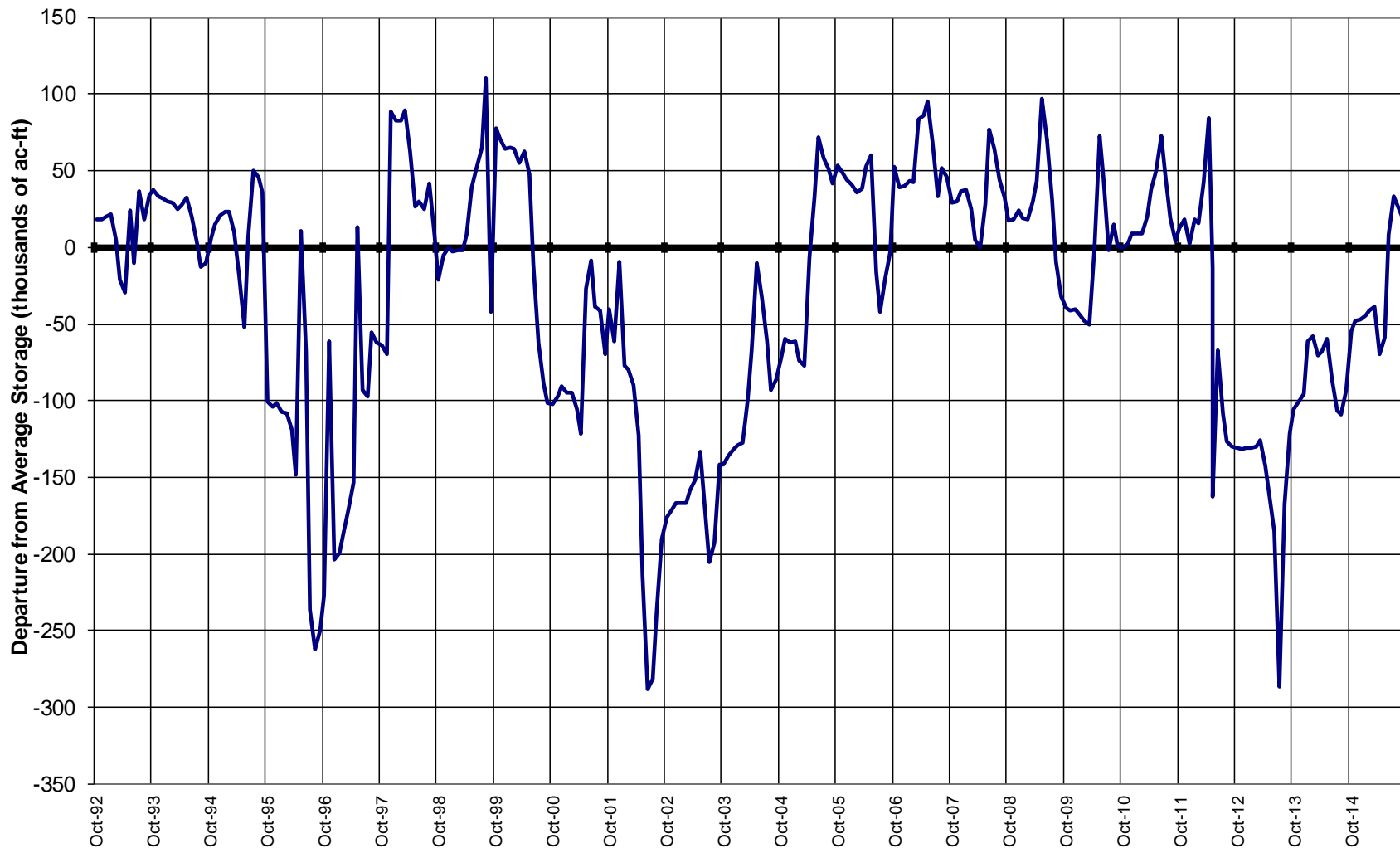


End of October 2015



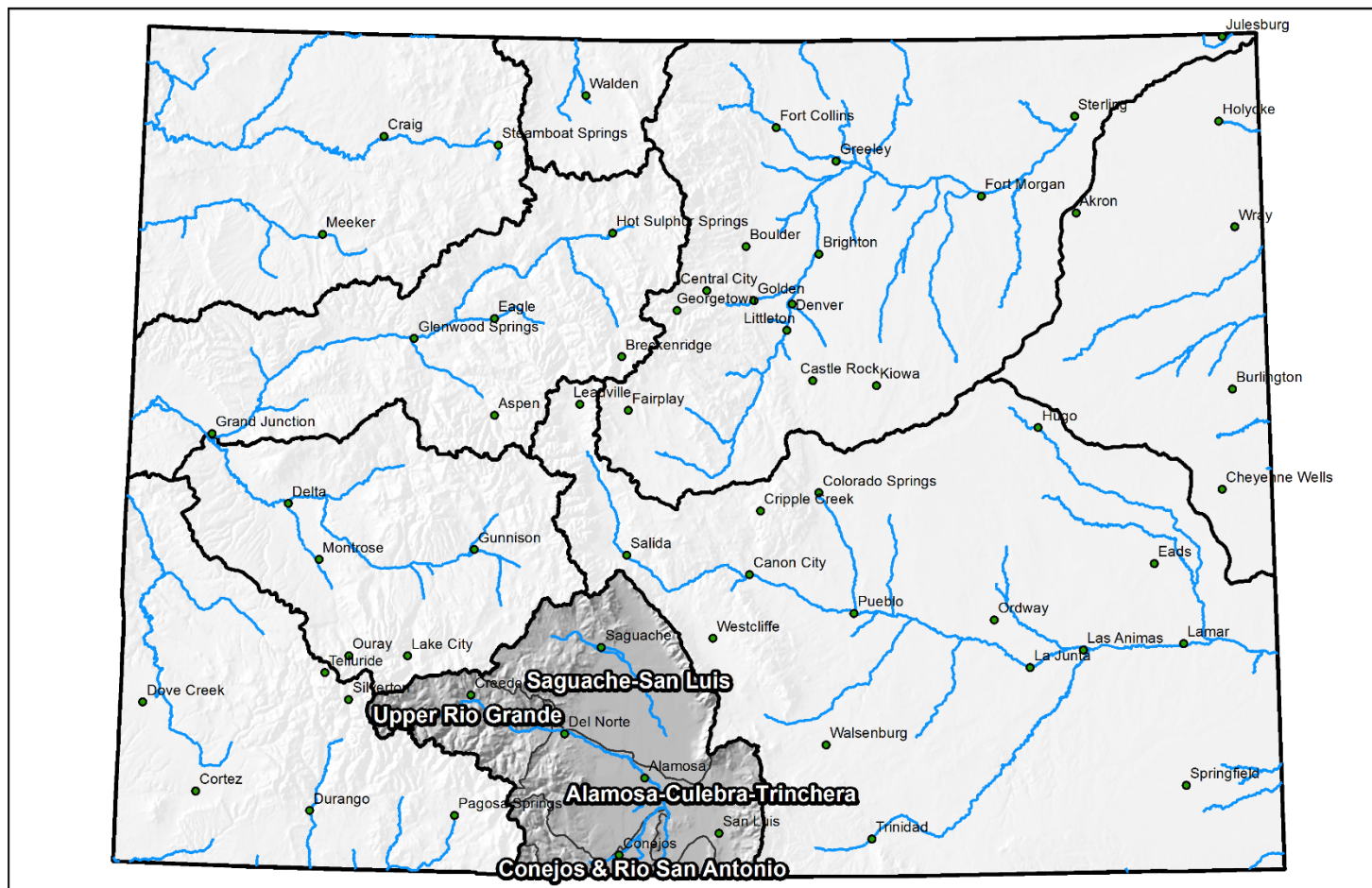
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

Reservoir Storage
Departure from Average



Major Basin Summary

Upper Rio Grande River Basin

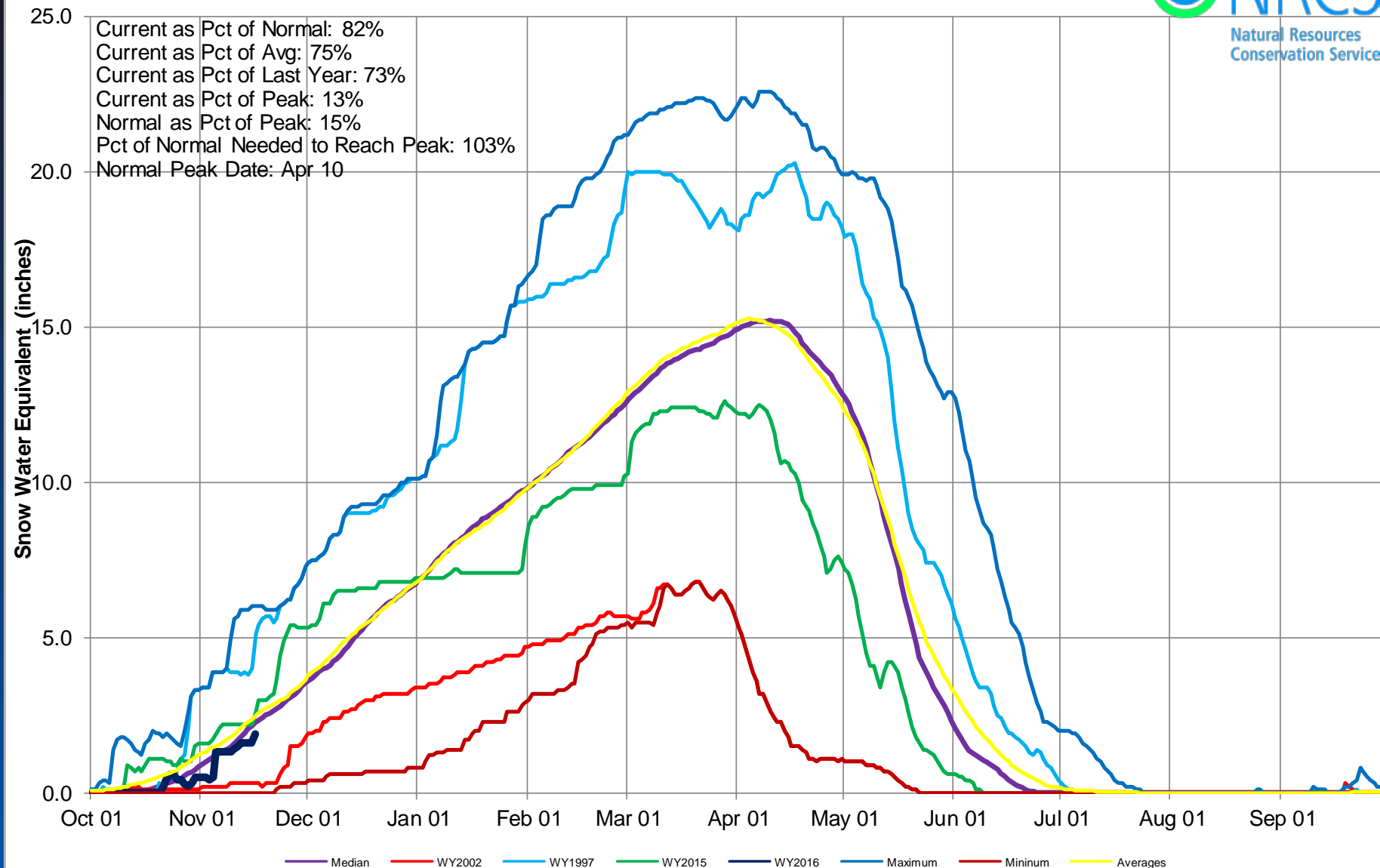


0 25 50 100 150 200 Miles



Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Nov 16, 2015



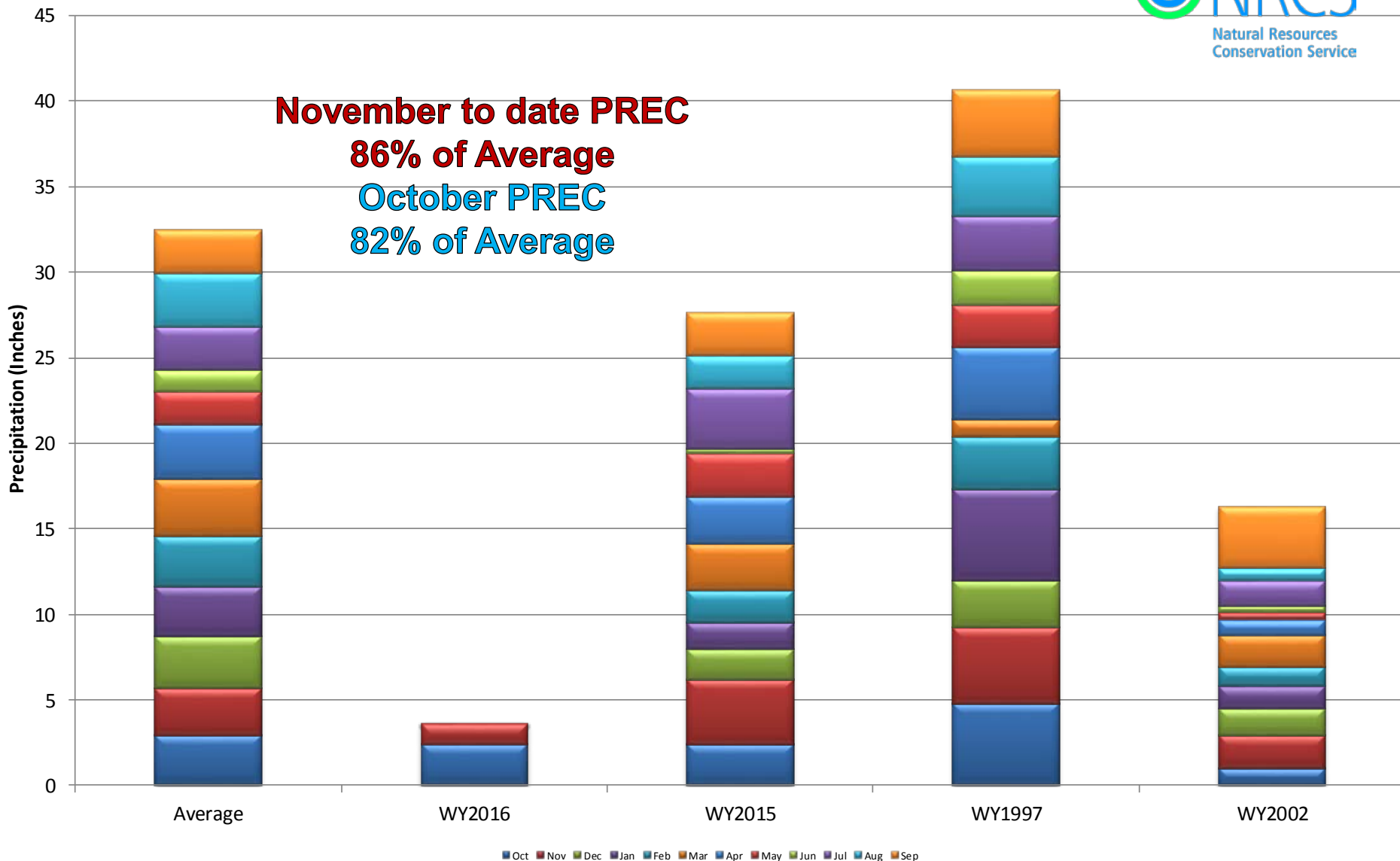


Upper Rio Grande Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Nov 16, 2015



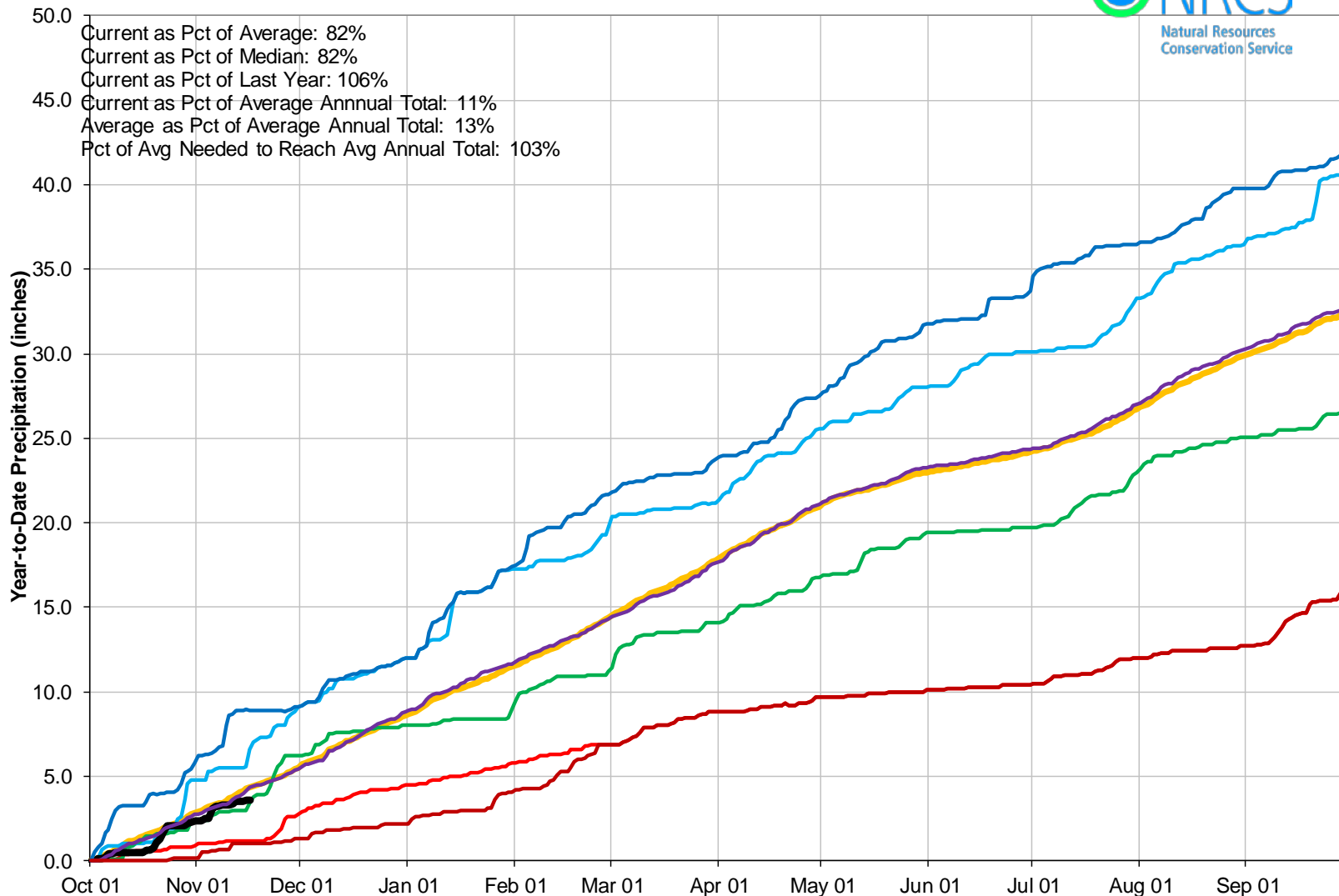
November to date PREC
86% of Average
October PREC
82% of Average





Upper Rio Grande Basin High/Low Year-to-Date Precipitation Summary

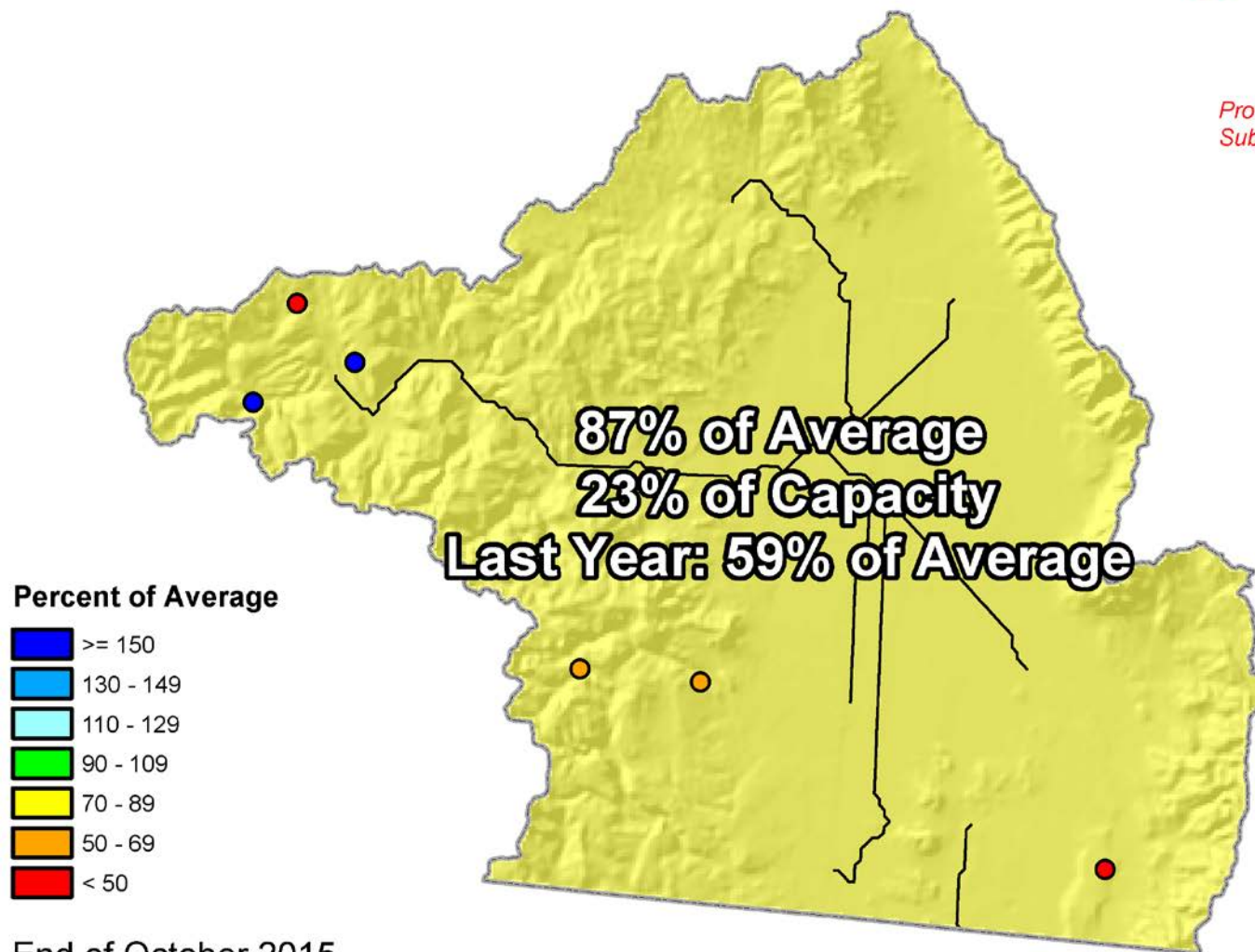
Based on Provisional SNOTEL data as of Nov 16, 2015



Upper Rio Grande Basin Reservoir Storage Map



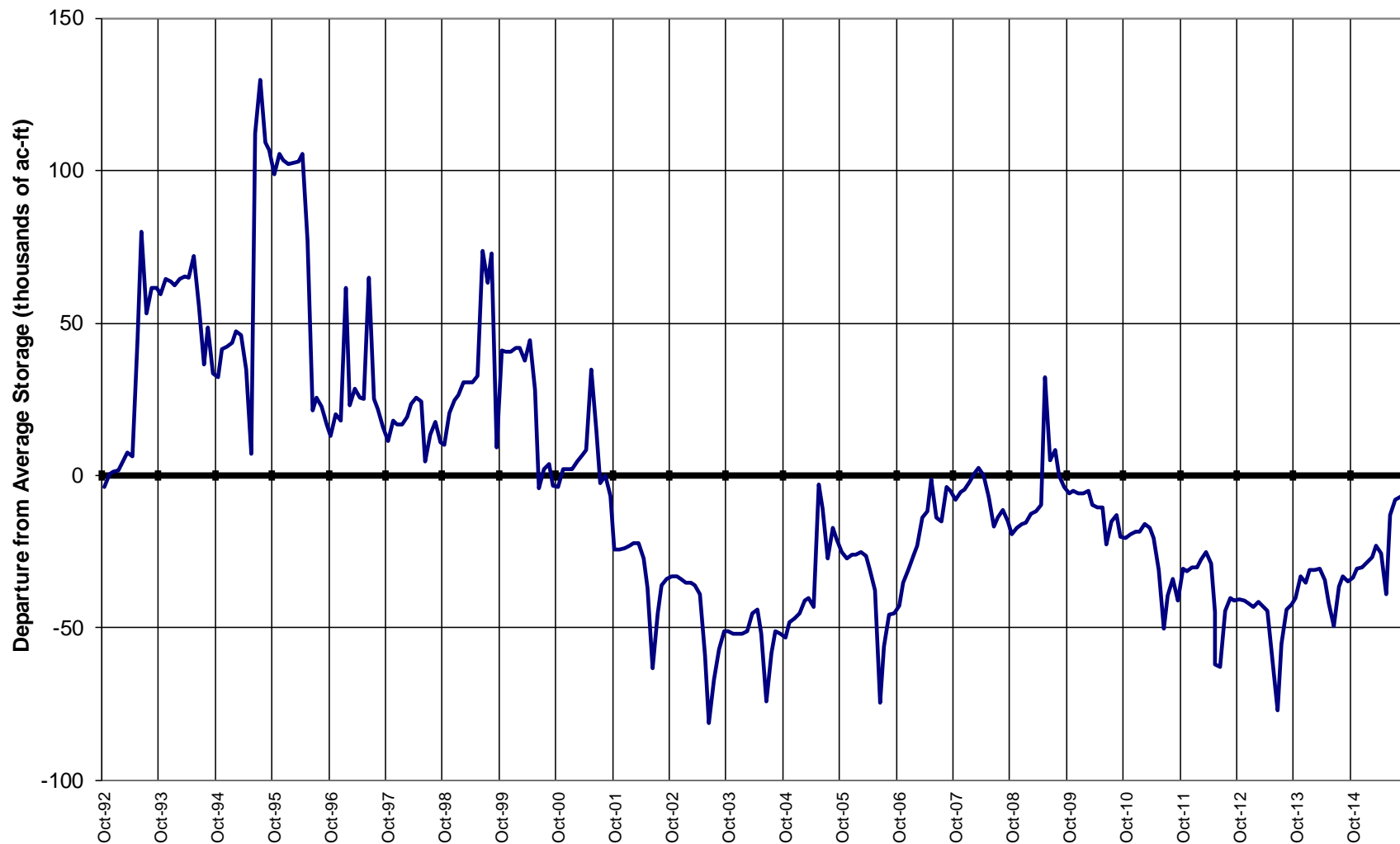
*Provisional Data
Subject to Revision*



End of October 2015

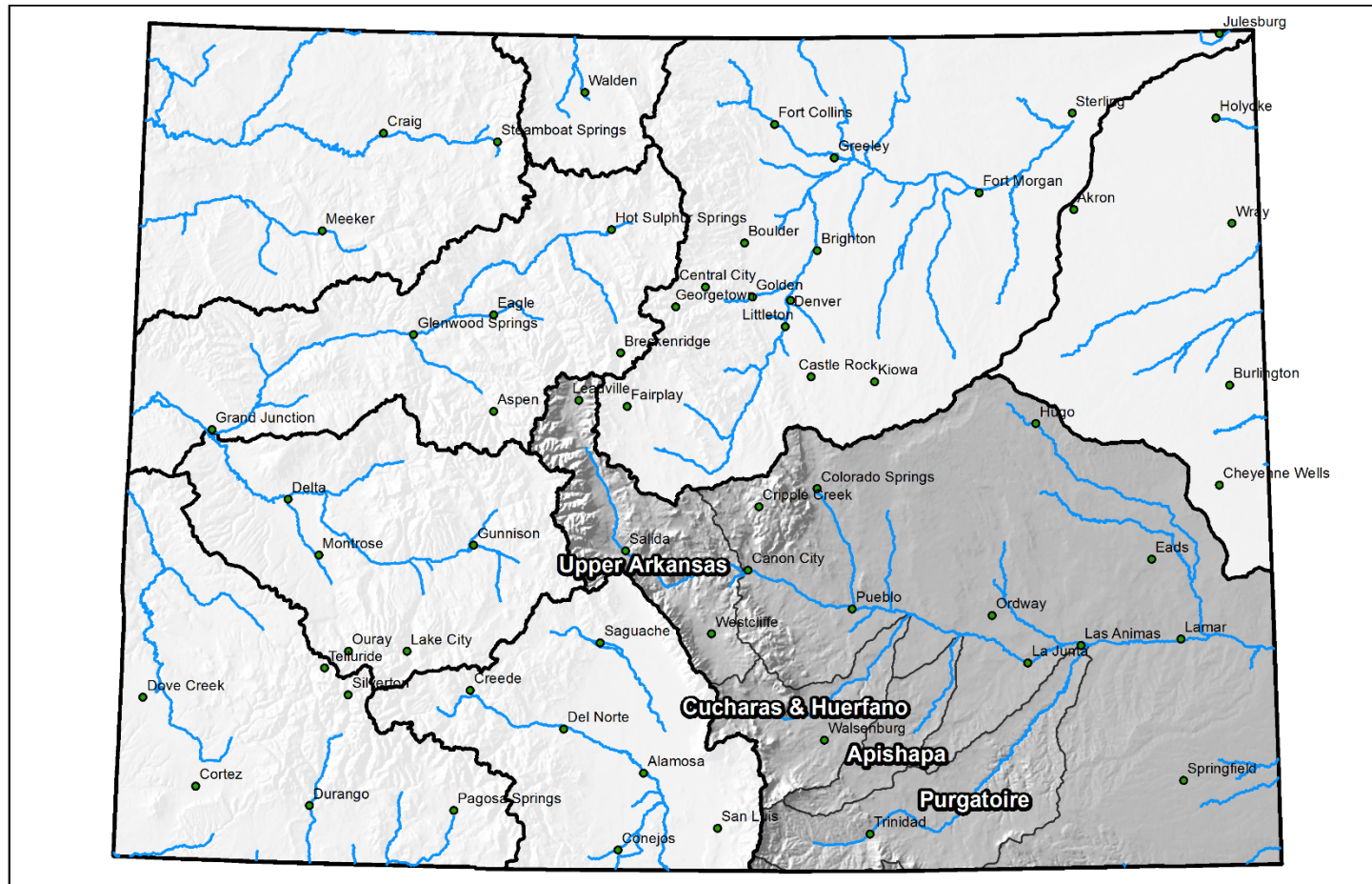


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



Major Basin Summary

Arkansas River Basin

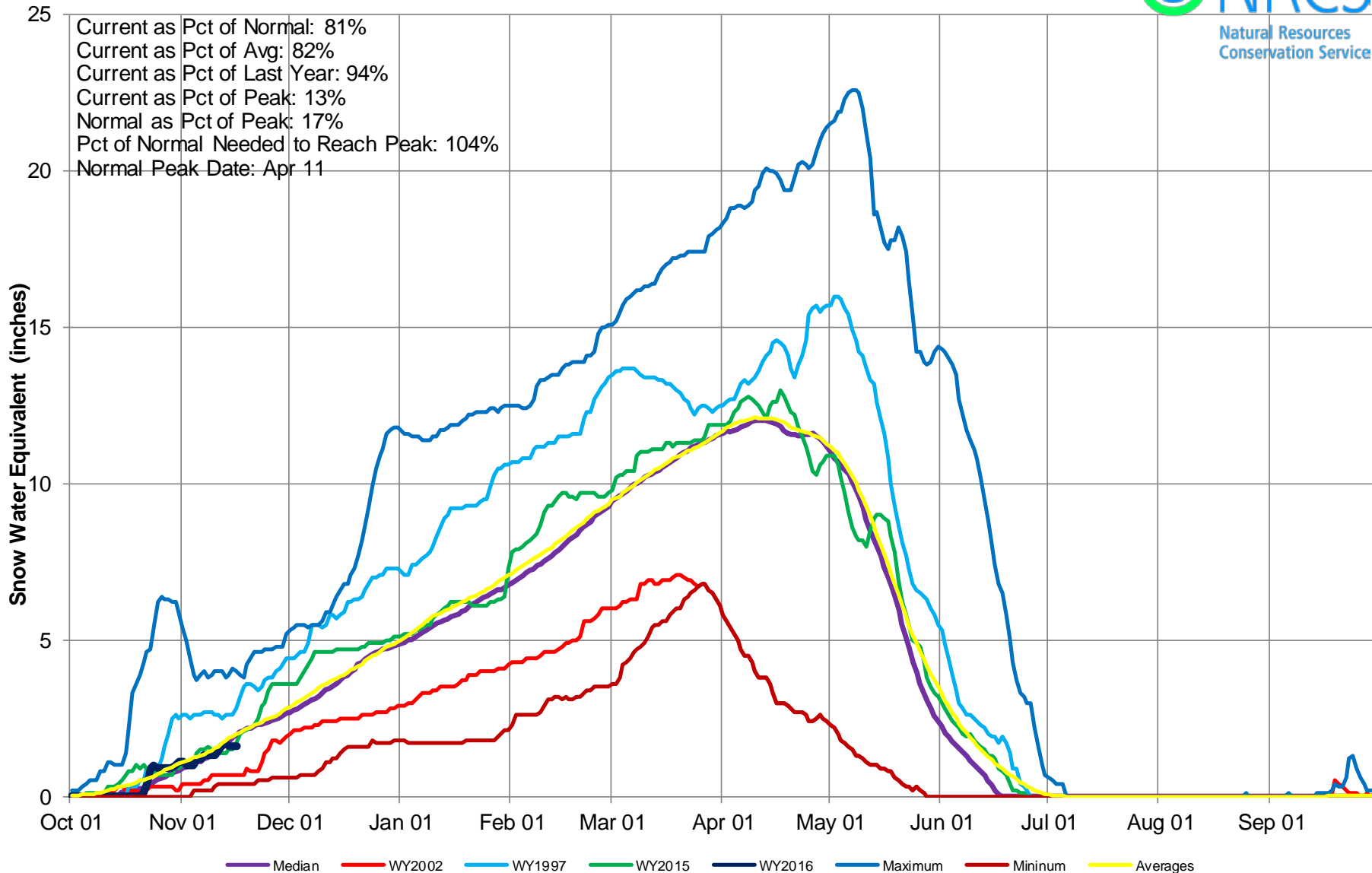


0 25 50 100 150 200 Miles



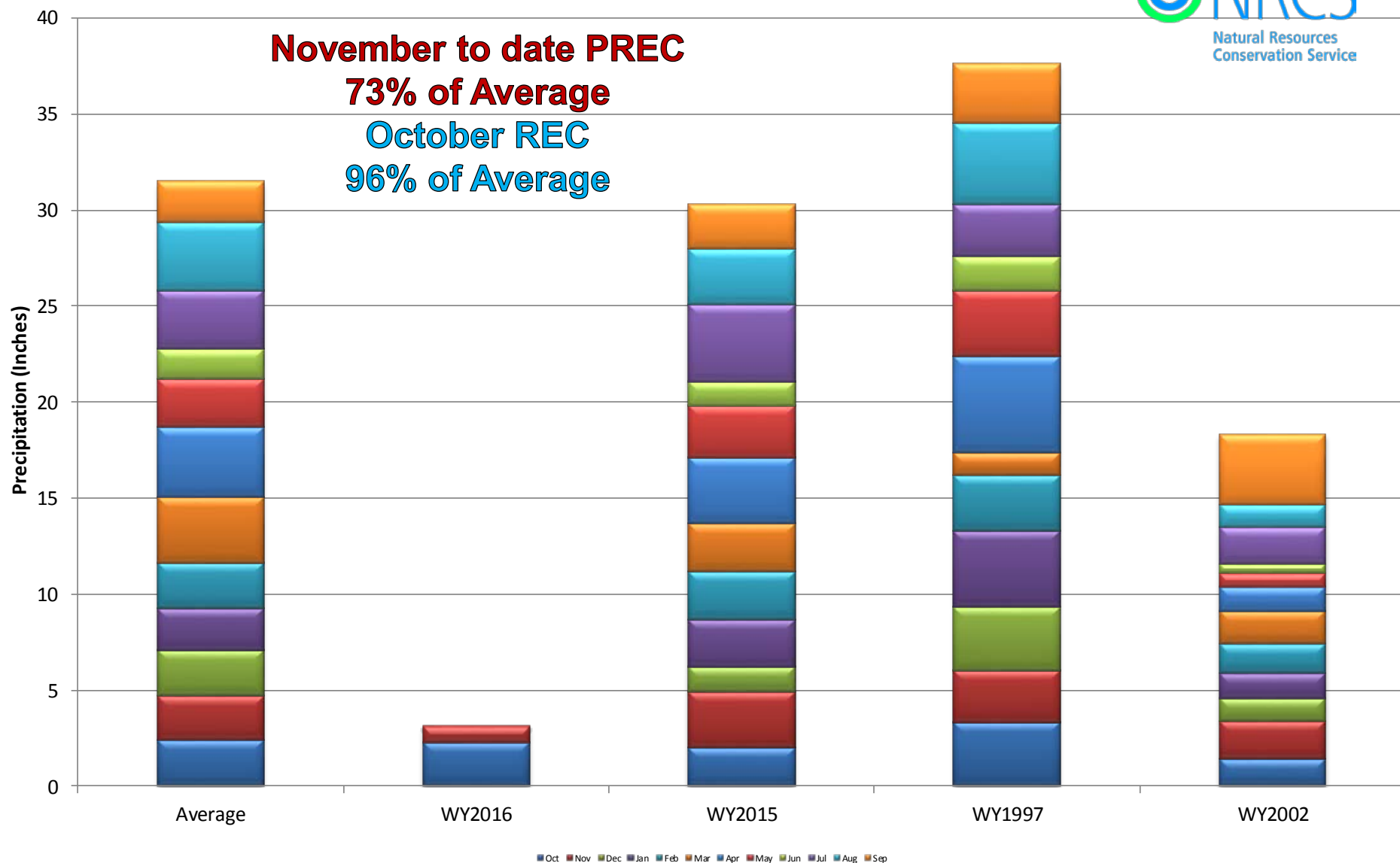
Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Nov 16, 2015



Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Nov 16, 2015



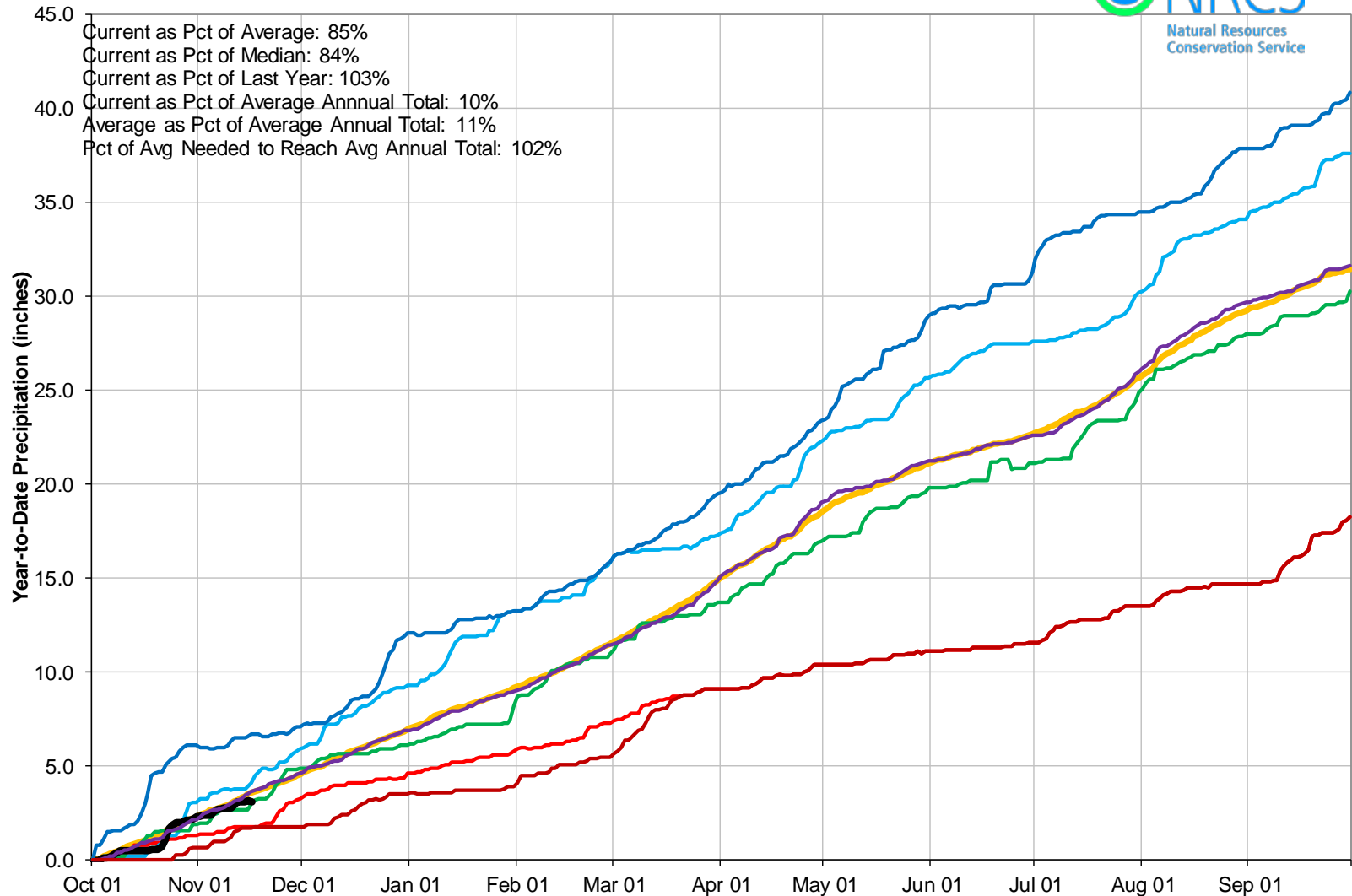


United States Department of Agriculture

Colorado Snow Surveys

Arkansas River Basin High/Low Year-to-Date Precipitation Summary

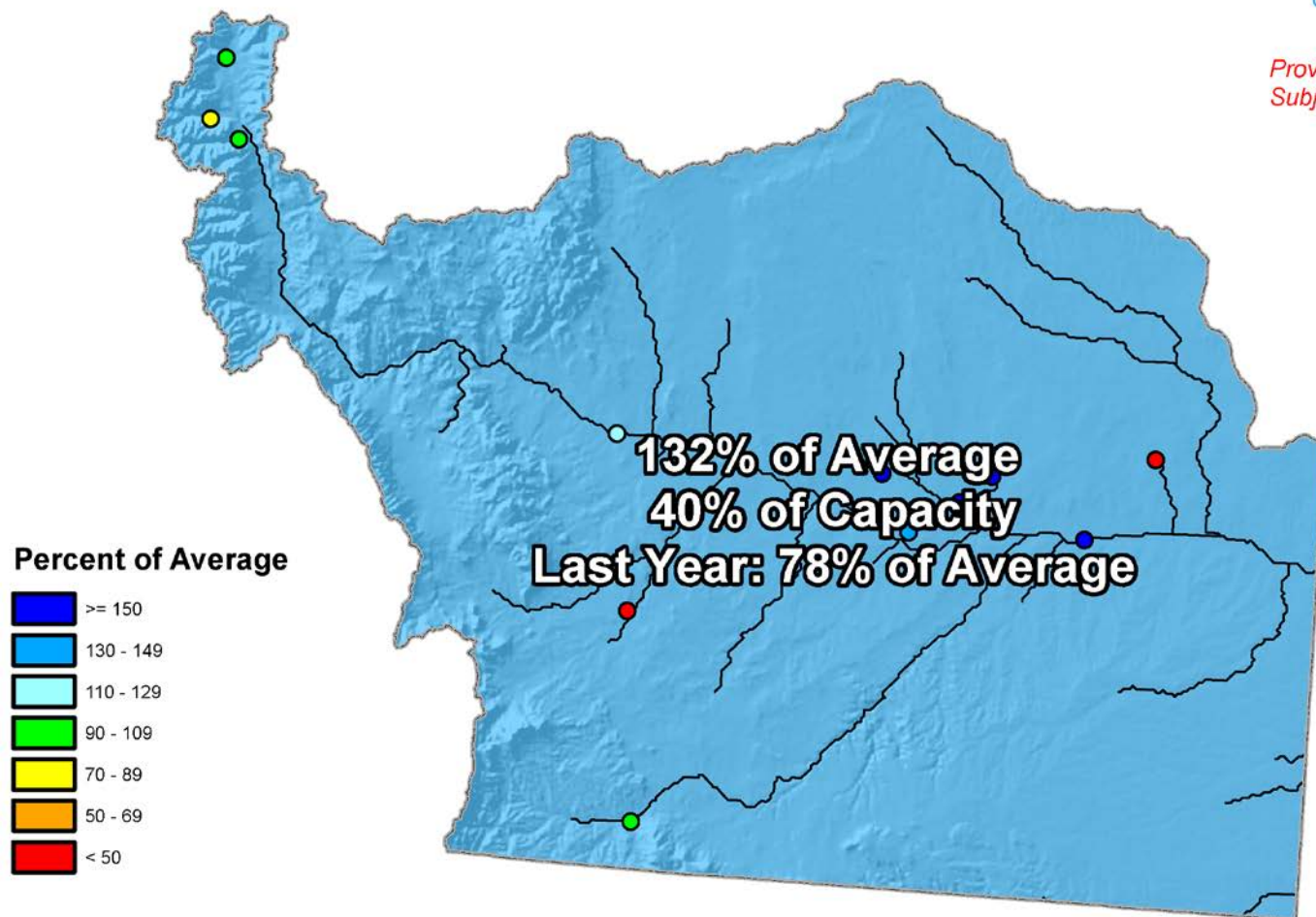
Based on Provisional SNOTEL data as of Nov 16, 2015



Arkansas River Basin Reservoir Storage Map



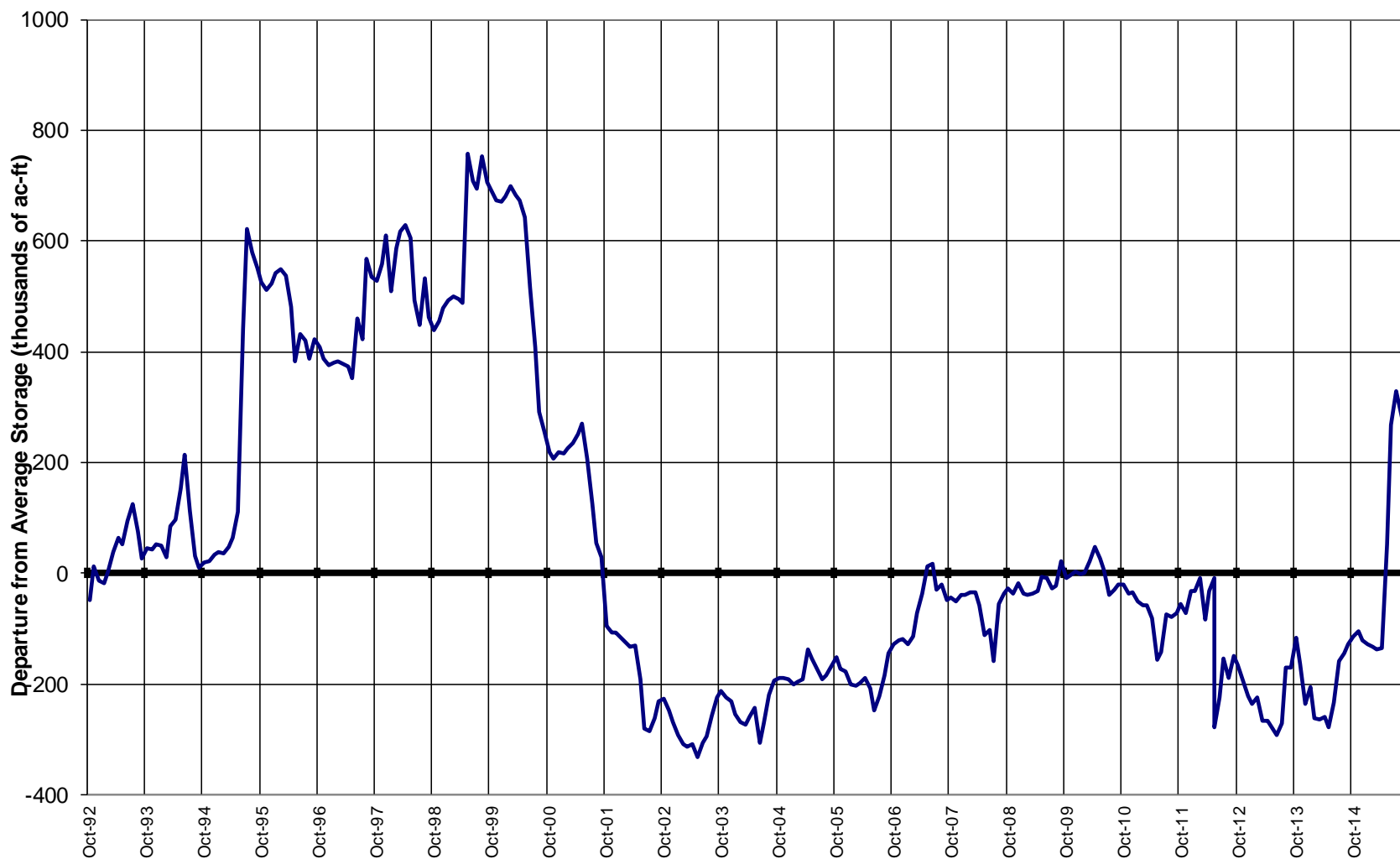
*Provisional Data
Subject to Revision*



End of October 2015

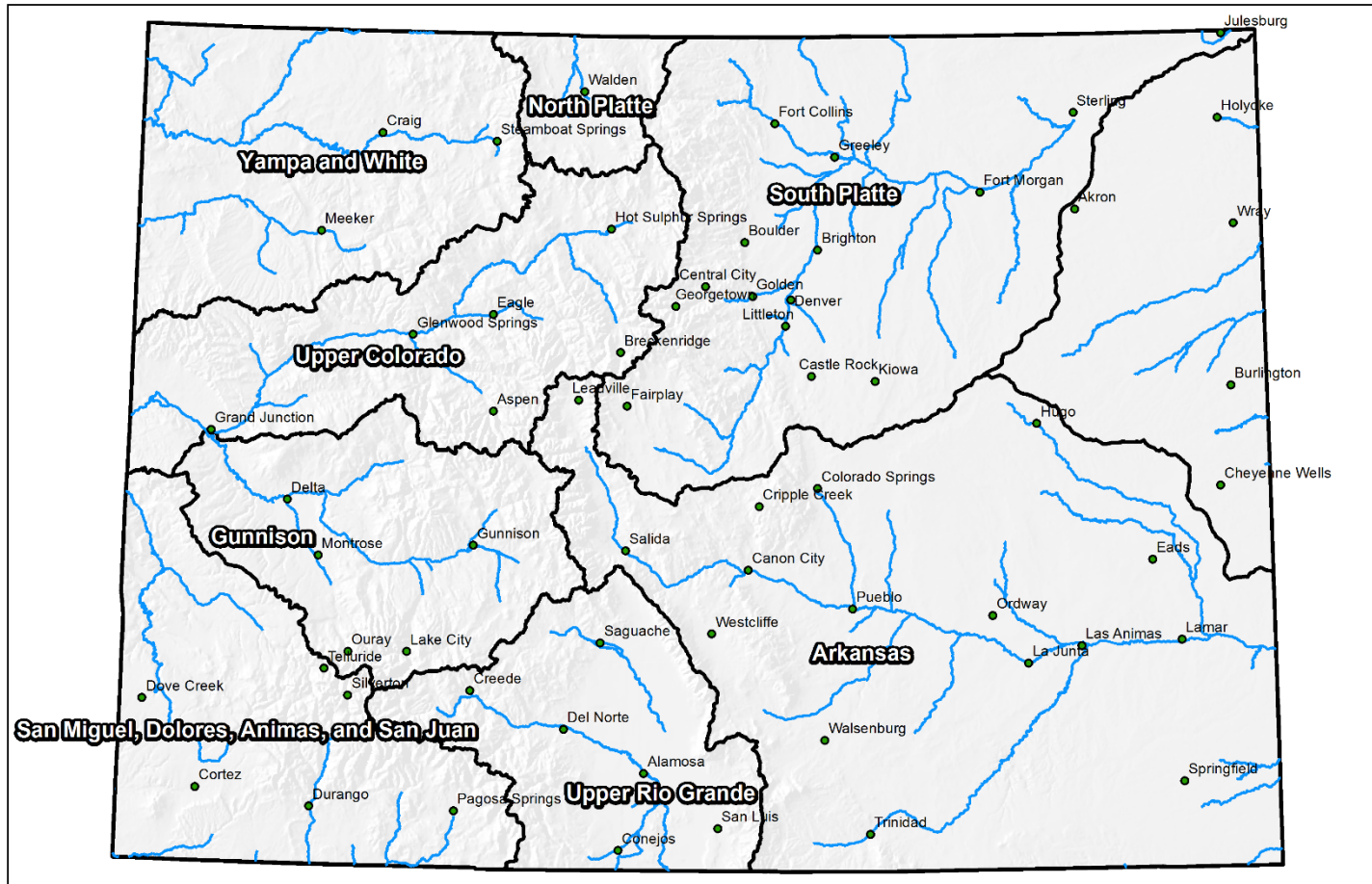


ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



Colorado Statewide Summary

Colorado Major Basins



0 25 50 100 150 200 Miles

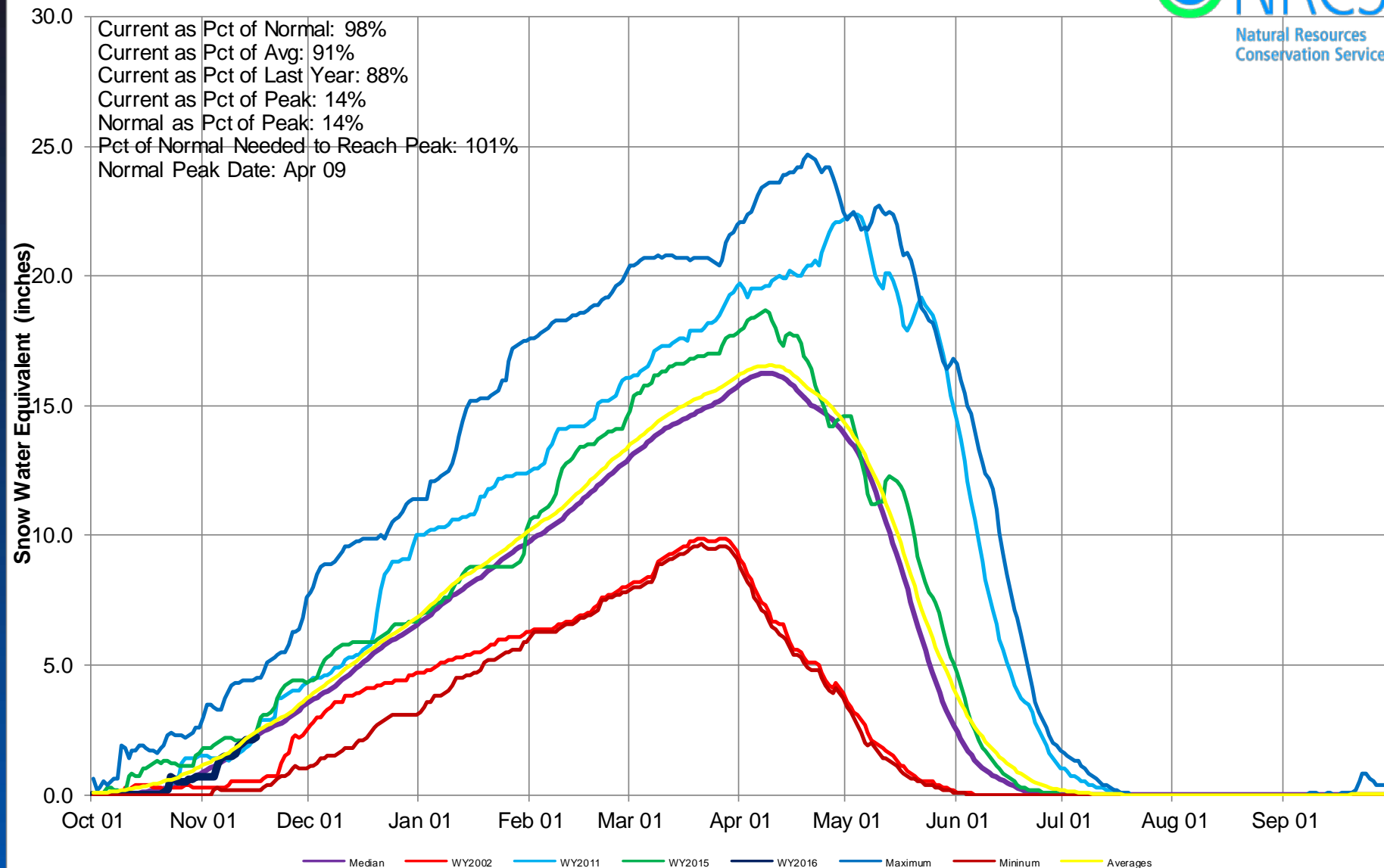


United States Department of Agriculture

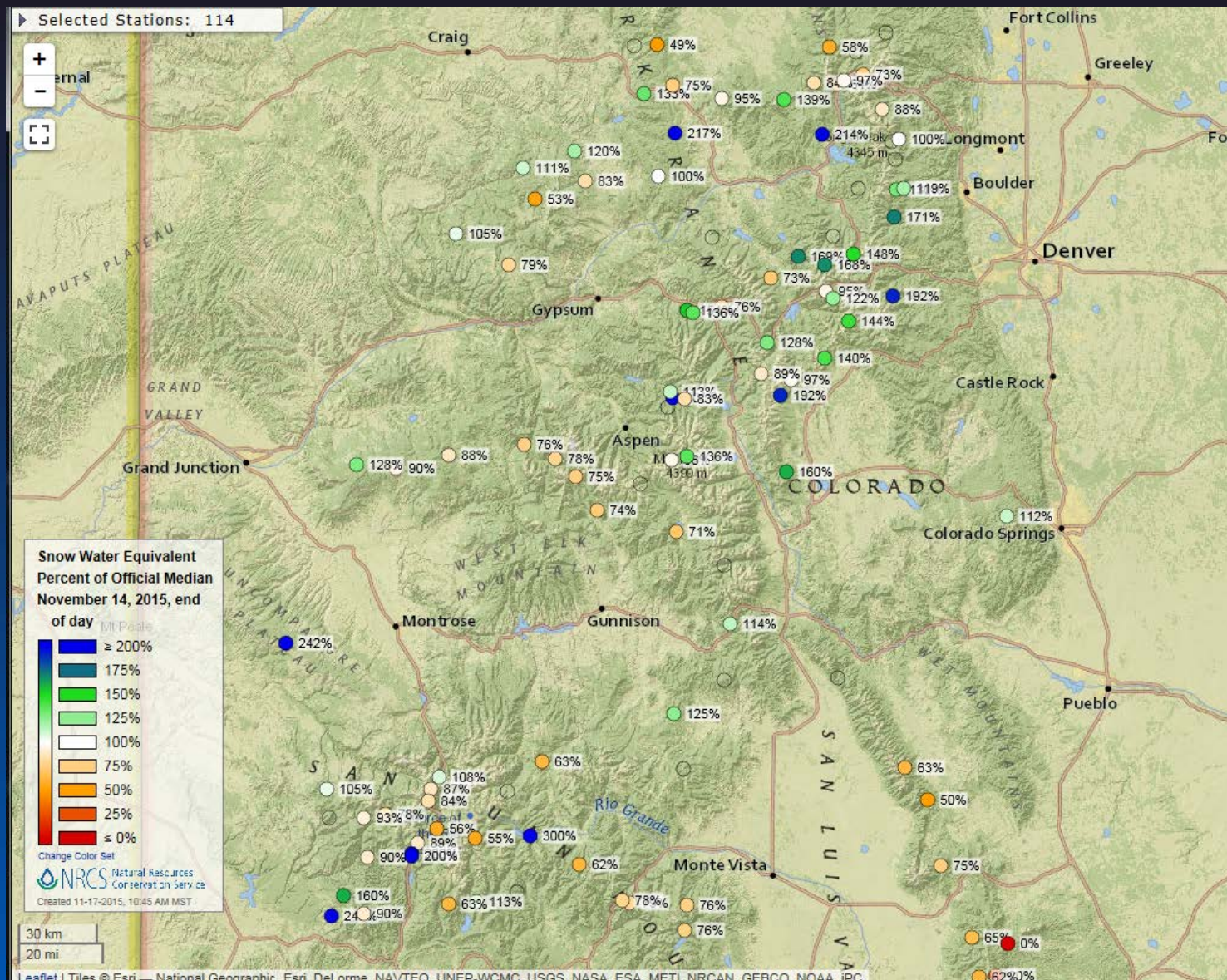
Colorado Snow Surveys

Colorado Statewide High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Nov 16, 2015



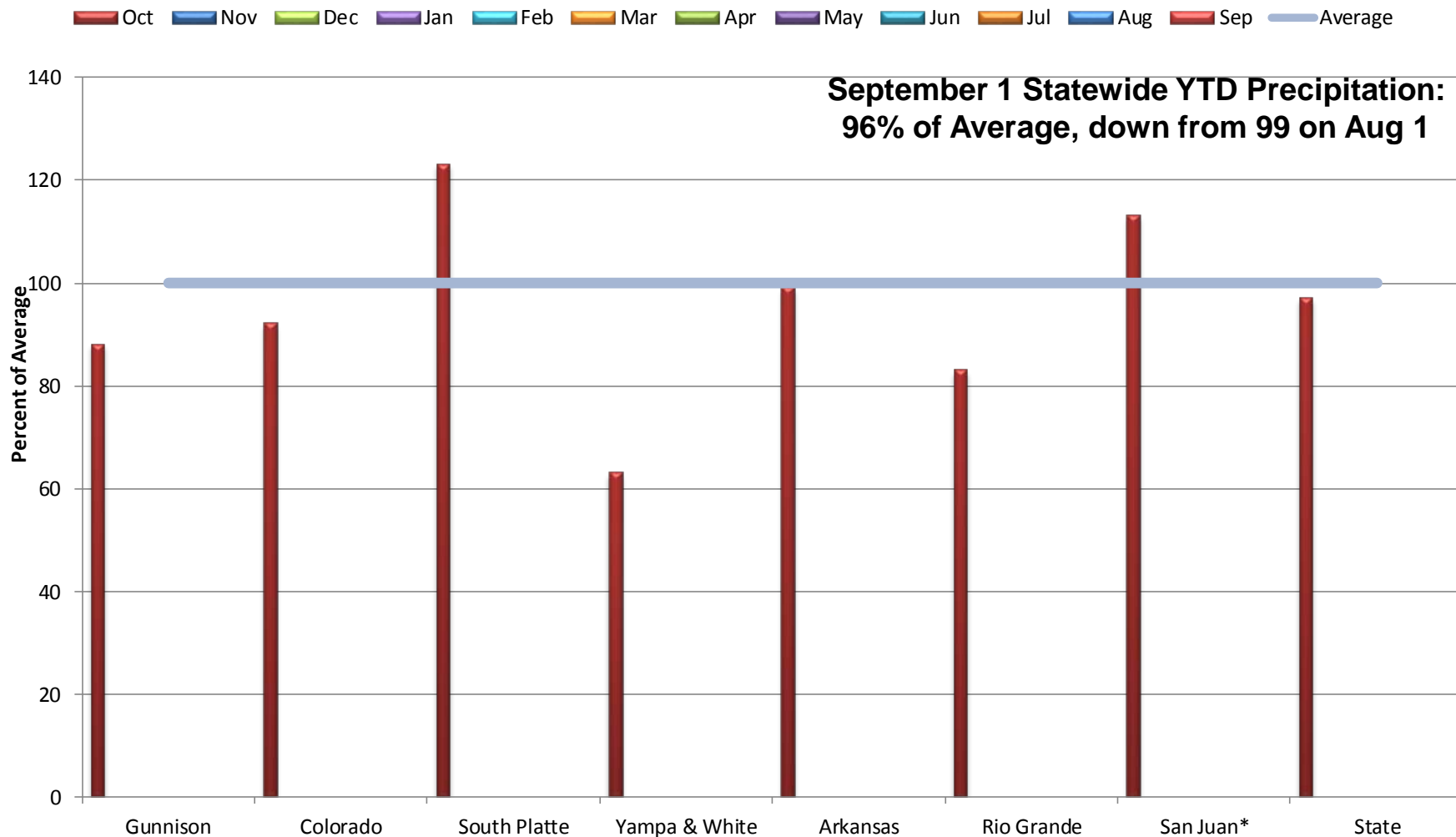
SNOTEL Percent of Median SWE as of 11-16-2015





Colorado Year-to-Date Precipitation Summary for WY2016

USDA Natural Resources Conservation Service



*Includes Animas, Dolores, San Miguel Basins



United States Department of Agriculture

Colorado Snow Surveys

Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Nov 16, 2015

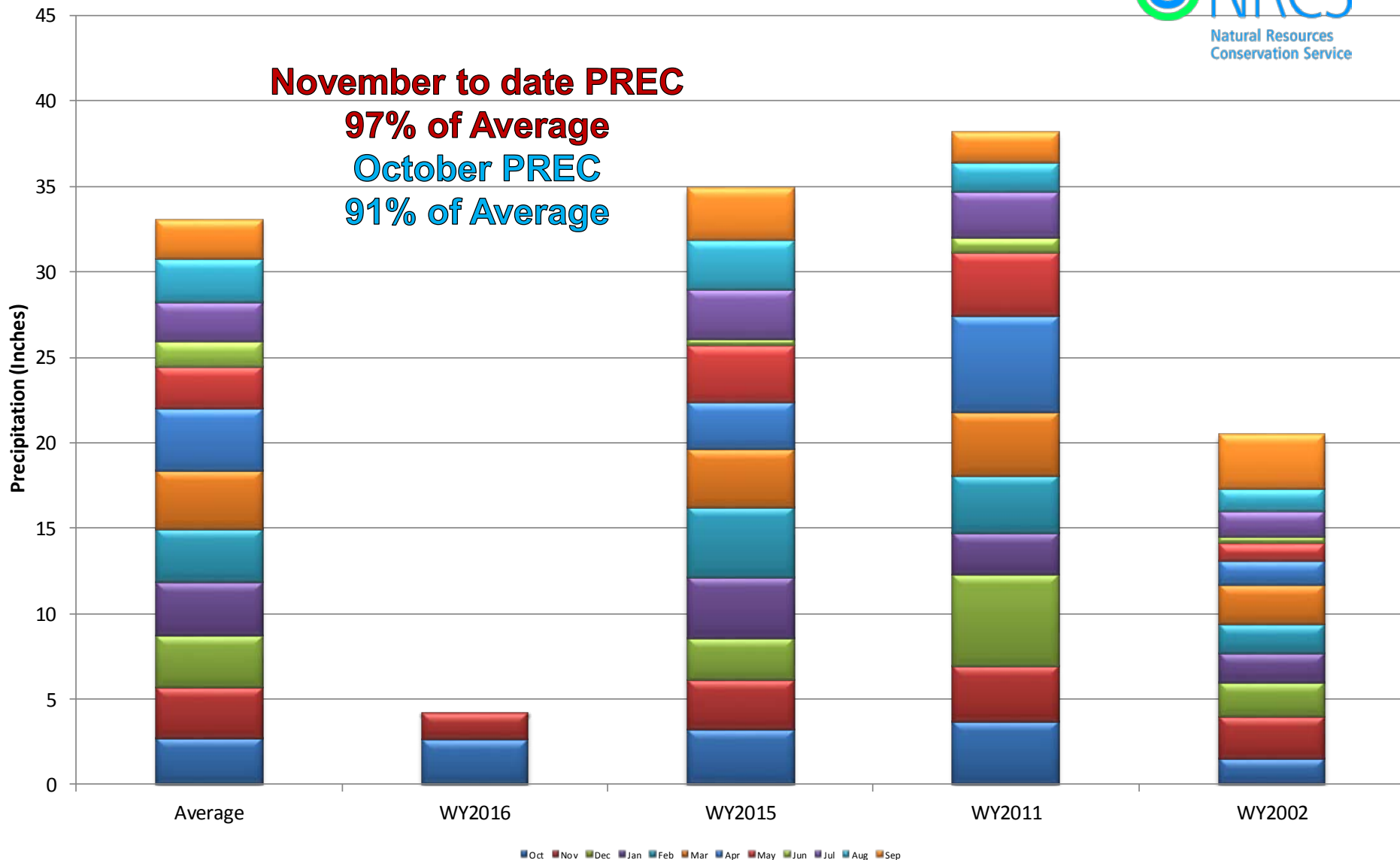


November to date PREC

97% of Average

October PREC

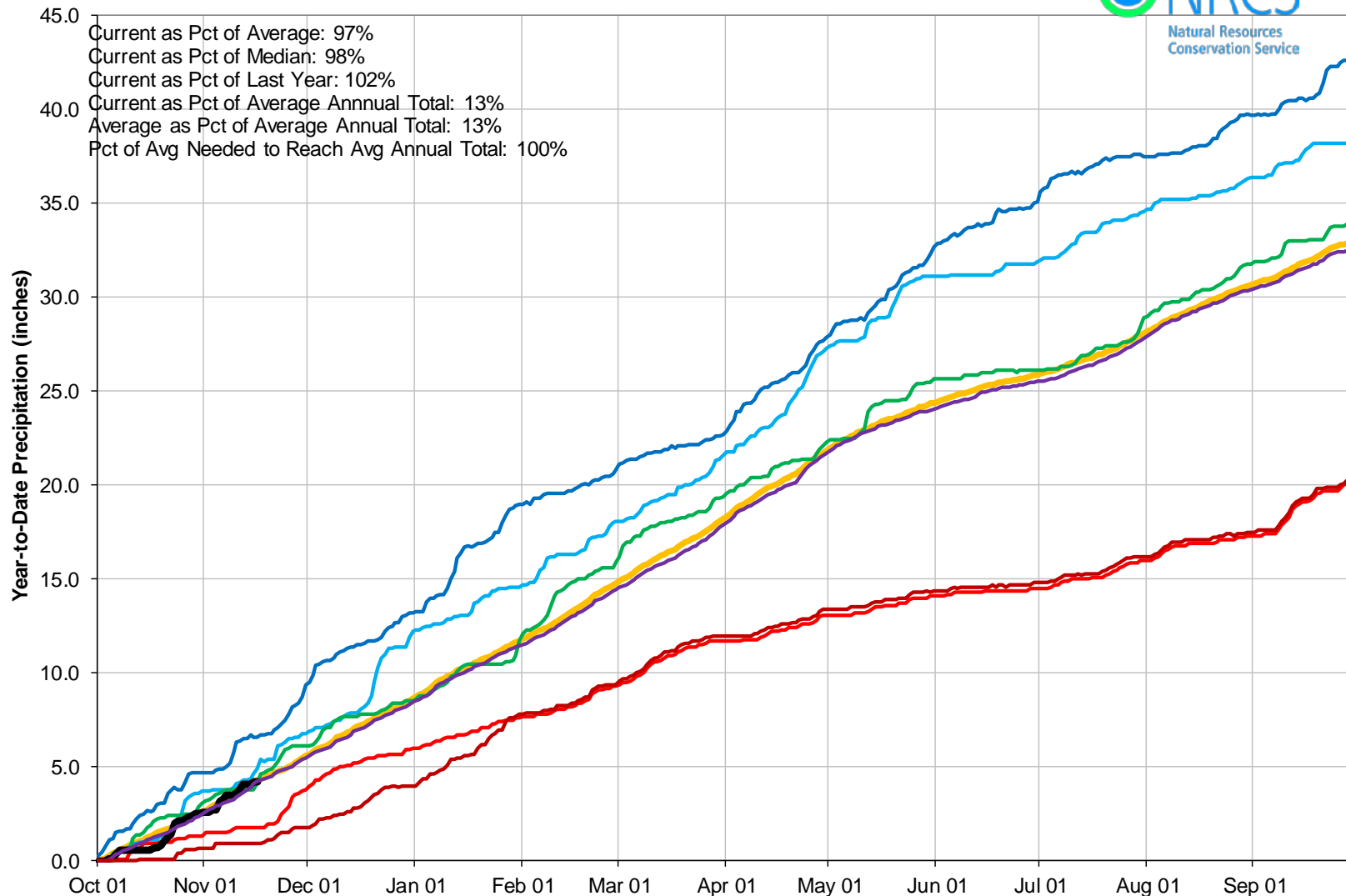
91% of Average



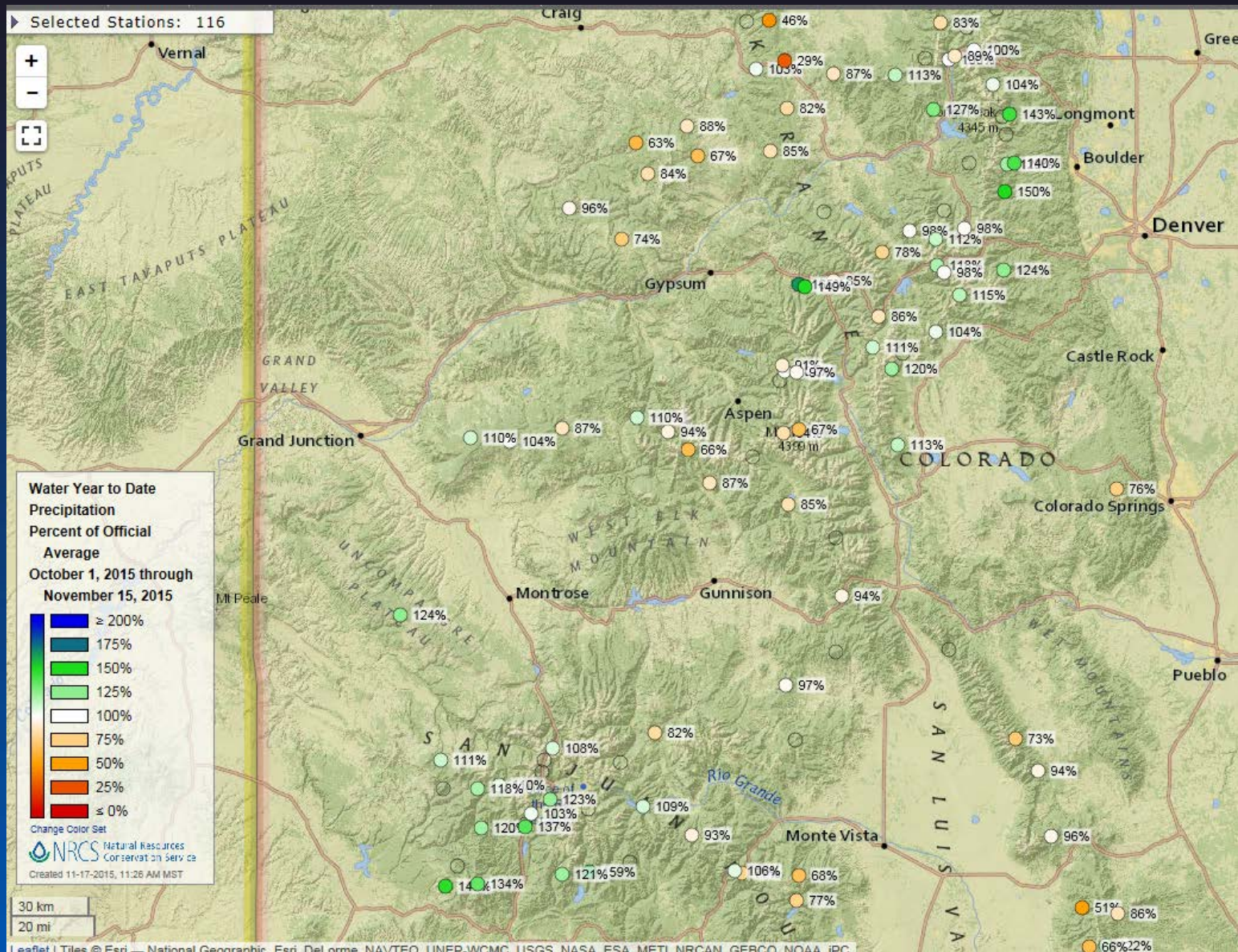


Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Nov 16, 2015

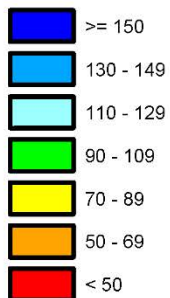


Water Year to Date SNOTEL Precipitation

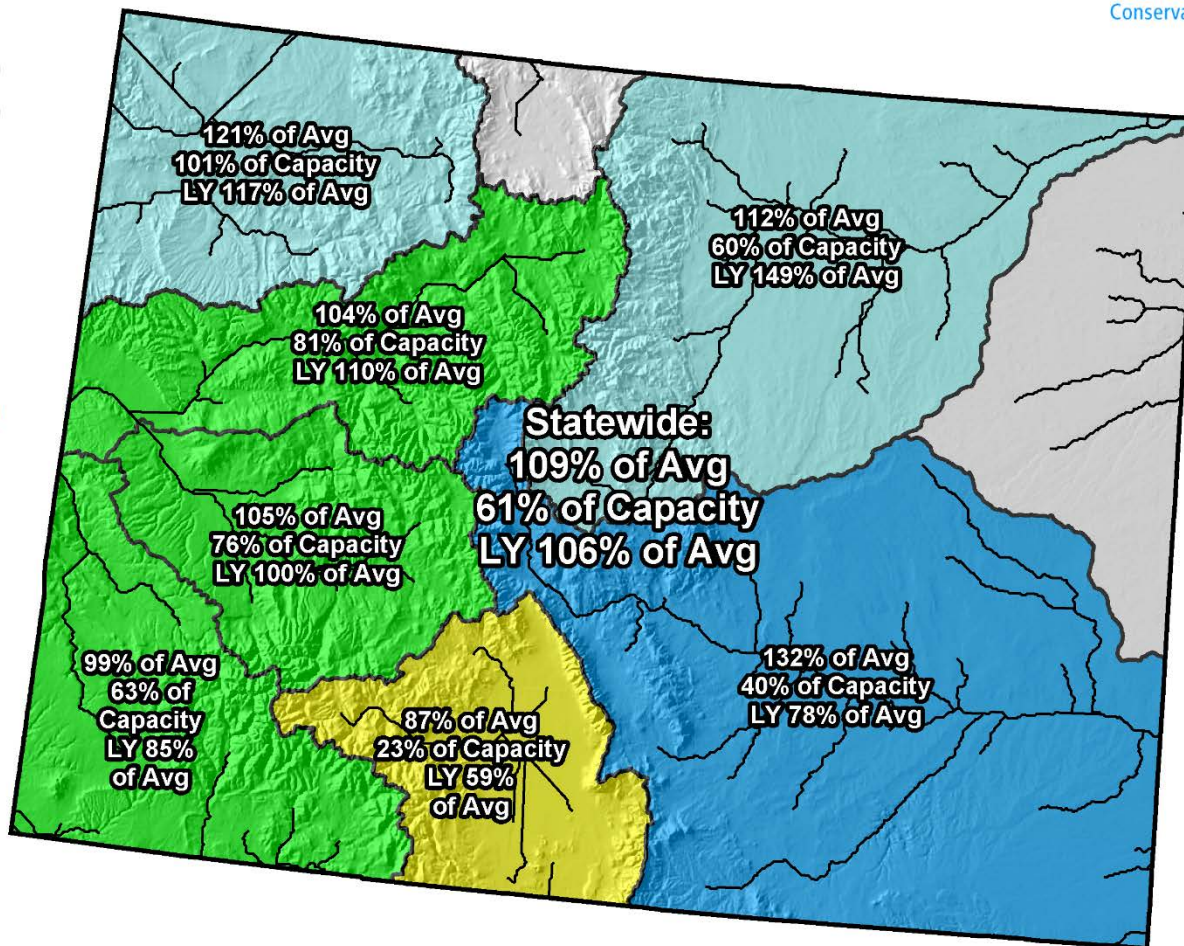


Colorado Reservoir Storage Map

Percent of Average



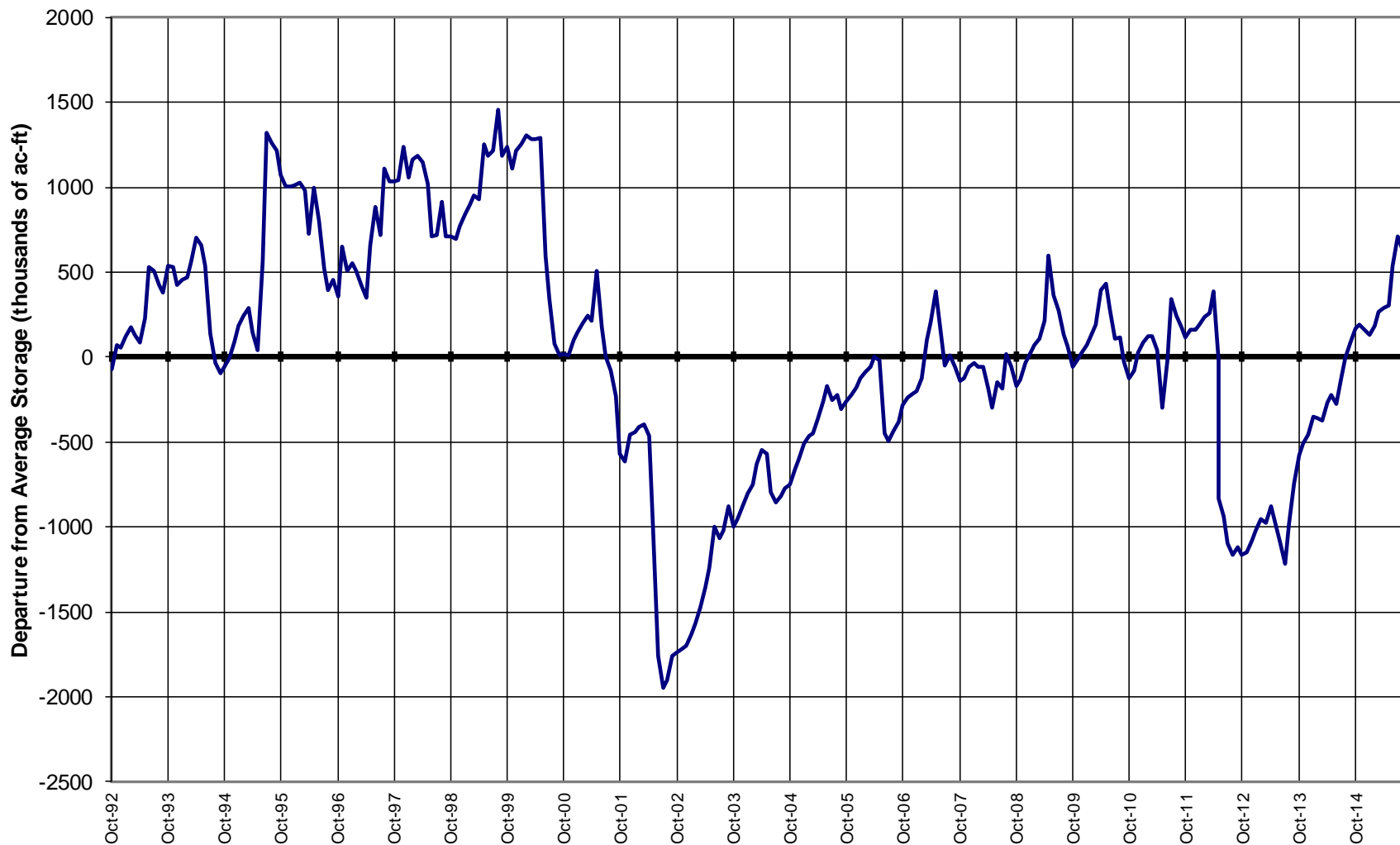
*Provisional Data
Subject to Revision*



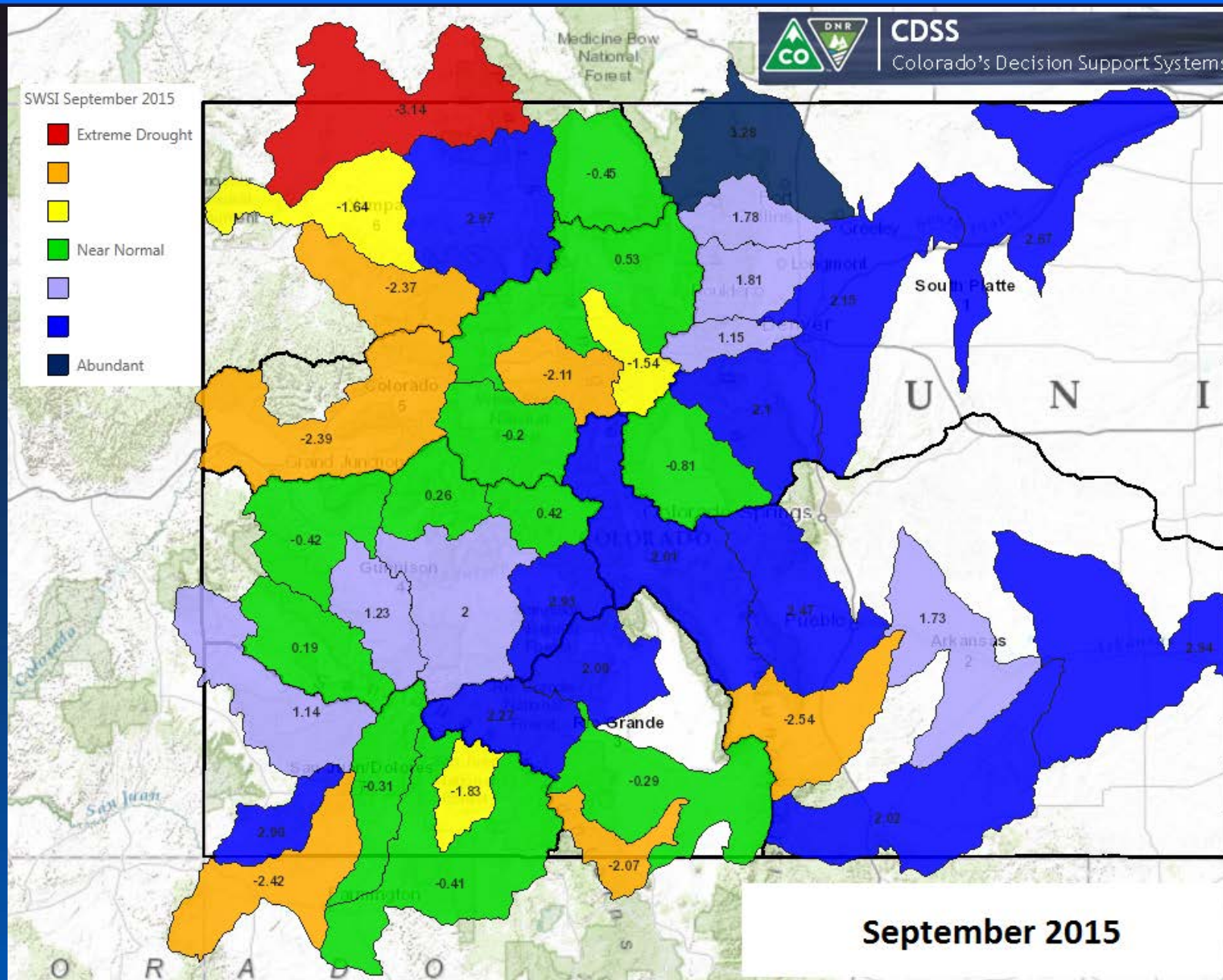
End of October 2015



COLORADO STATEWIDE Reservoir Storage Departure from Average



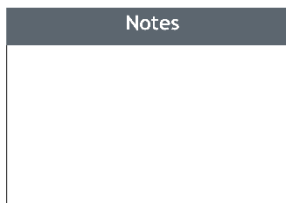
Colorado Snow Surveys





Colorado's Decision Support Systems

November 1, 2015



103.03	0	51.52	103.03 Miles
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1: 3,264,013



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Date Prepared: 11/16/2015 8:06:06 AM

Summary

- In general both snowpack and precipitation levels are relatively near normal statewide.
 - The notable event that occurred yesterday through this morning will presumably put these metrics above normal but unfortunately those data were not yet available.
- Reservoirs statewide are in relatively good standing at 109% of normal
 - The Upper Rio Grande basin is the only area with below average storage
 - Ark is the highest it has been since Jan 2000
- While variability across the state exists SWSI values generally lie above average



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

November 17th, 2015

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

Hydrologist

720-544-2853

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