



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

August 17th, 2017

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

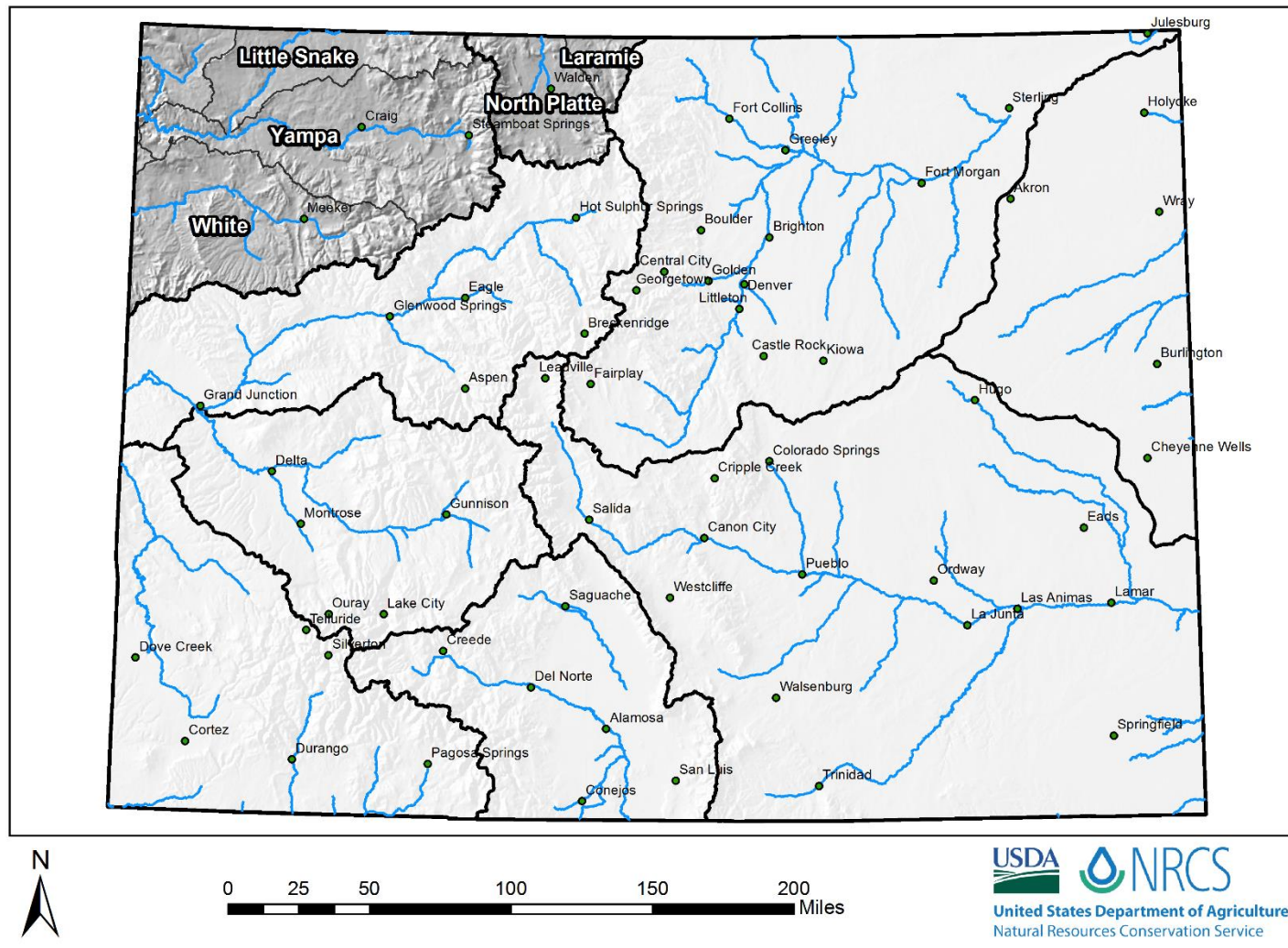
Asst. Snow Survey Supervisor

720-544-2853

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

Major Basin Summary

Yampa, White, and North Platte River Basins

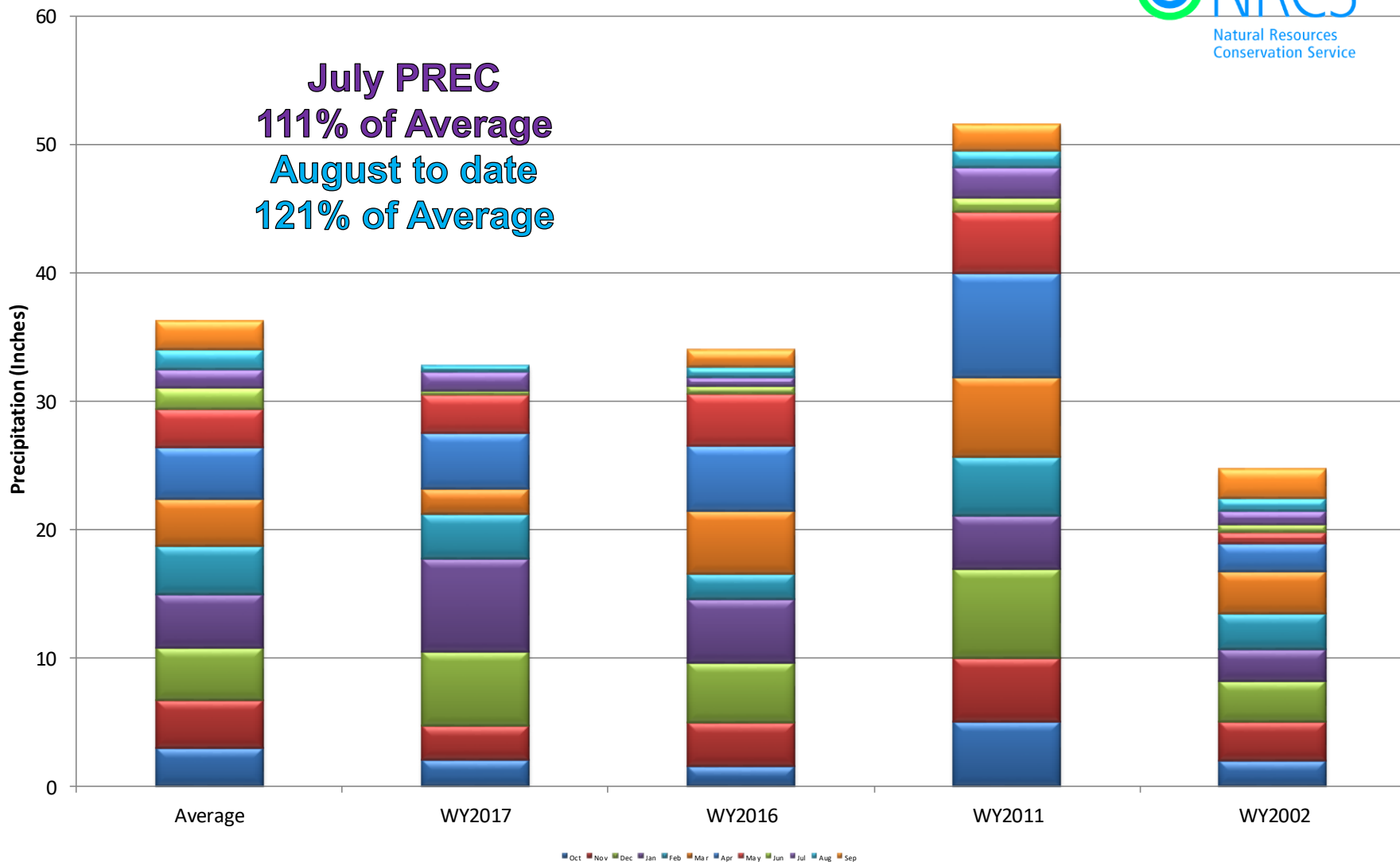


Yampa & White River Basins High/Low Monthly Precipitation Summary

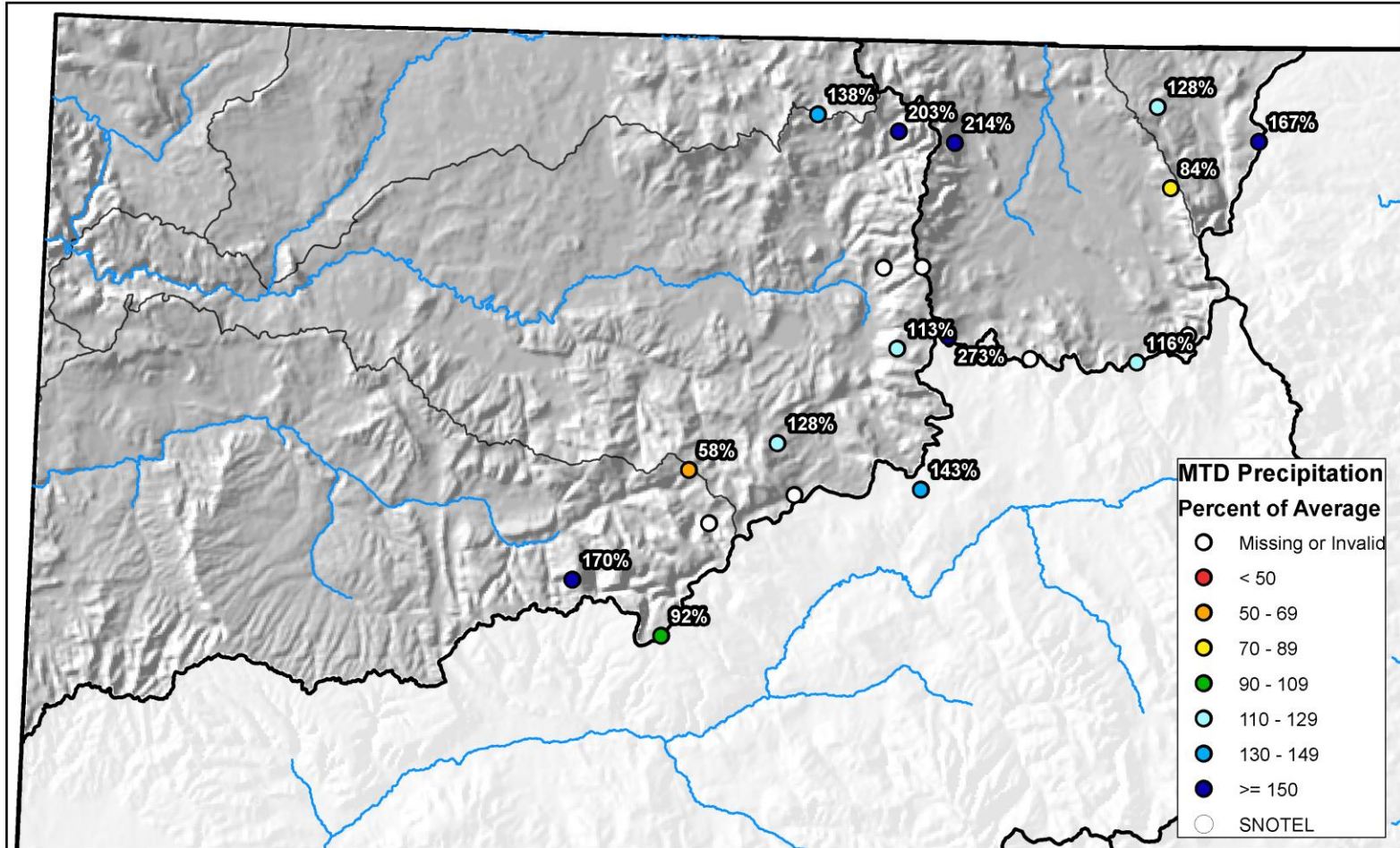
Based on Provisional SNOTEL data as of Aug 16, 2017



July PREC
111% of Average
August to date
121% of Average



Yampa, White, and North Platte River Basins Month to Date Precipitation Summary Current as of Aug 16, 2017

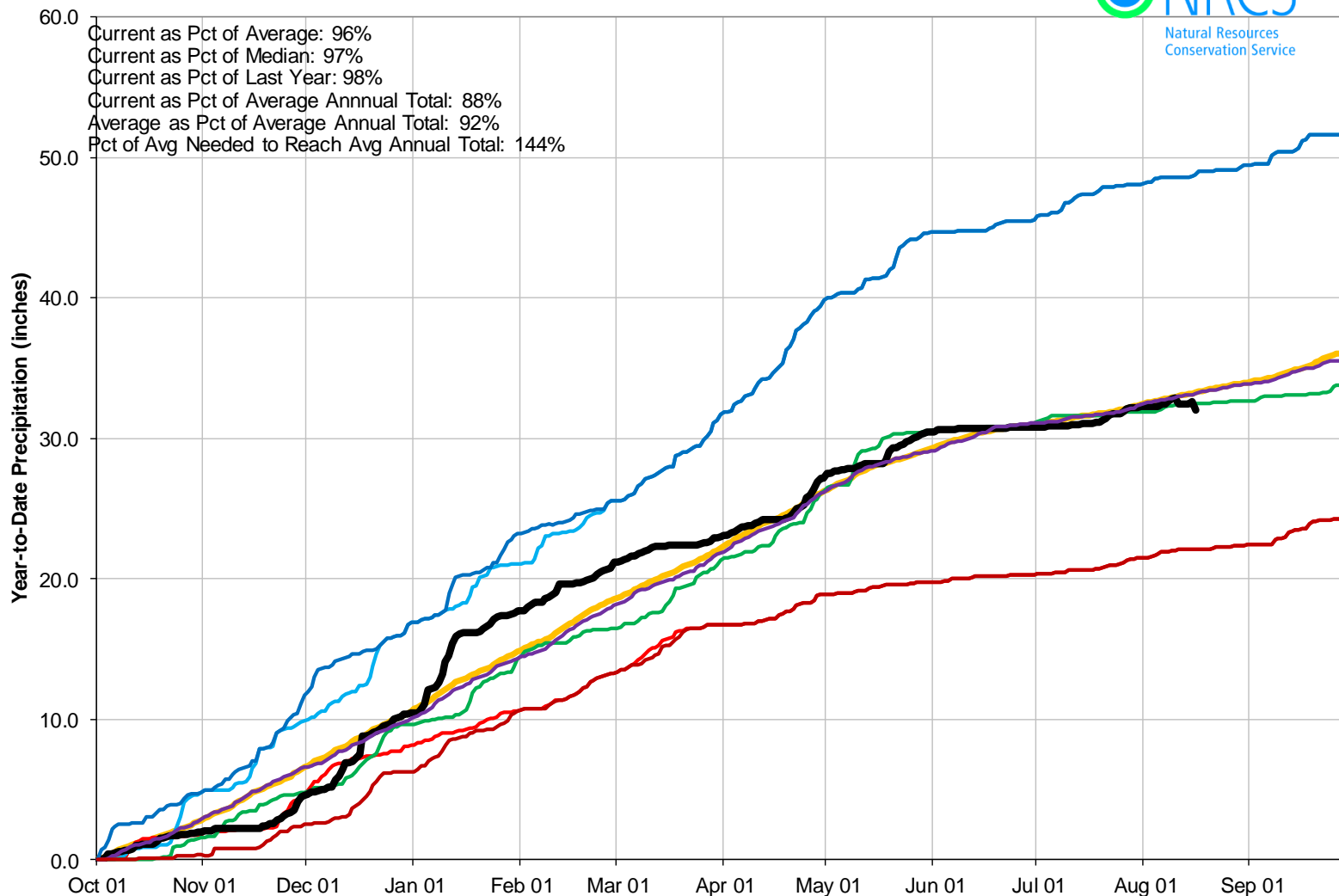


0 10 20 40 60 80 Miles

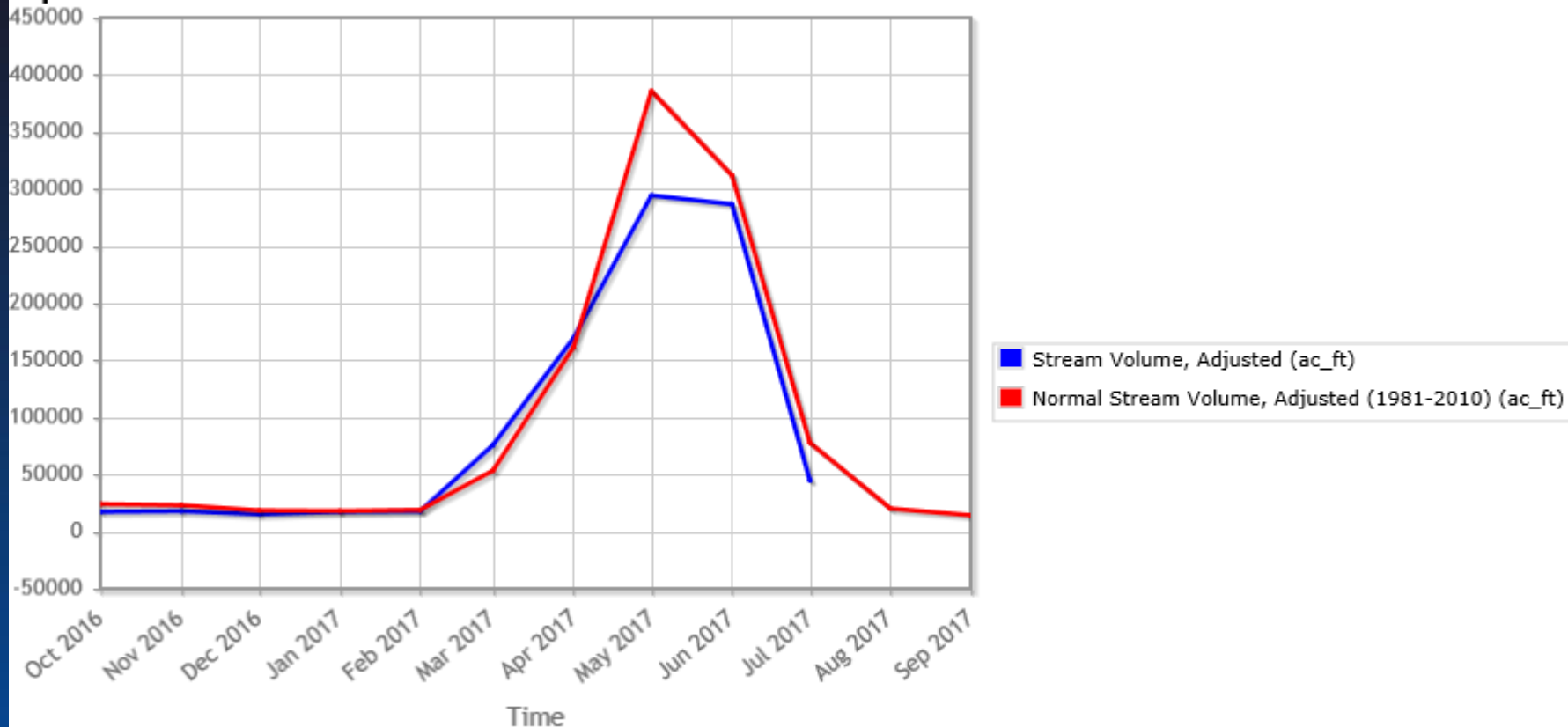


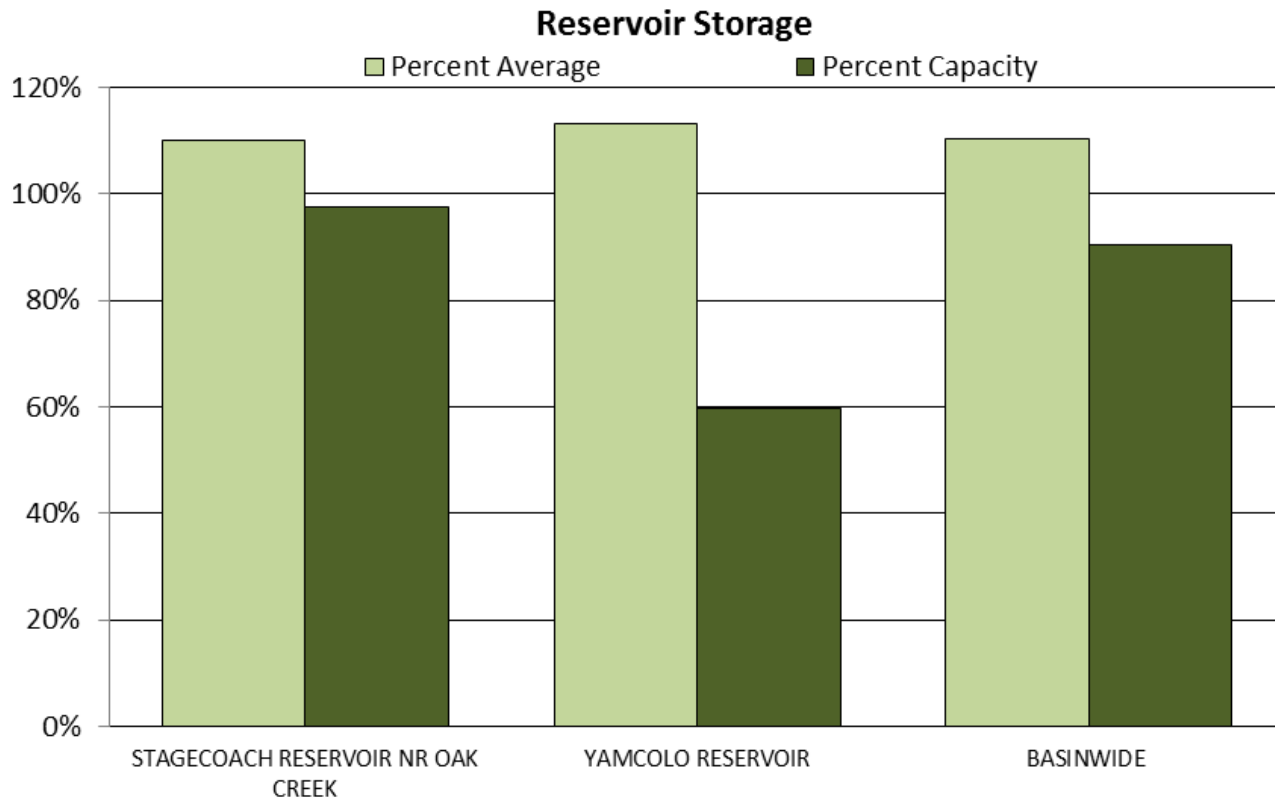
Yampa & White River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2017

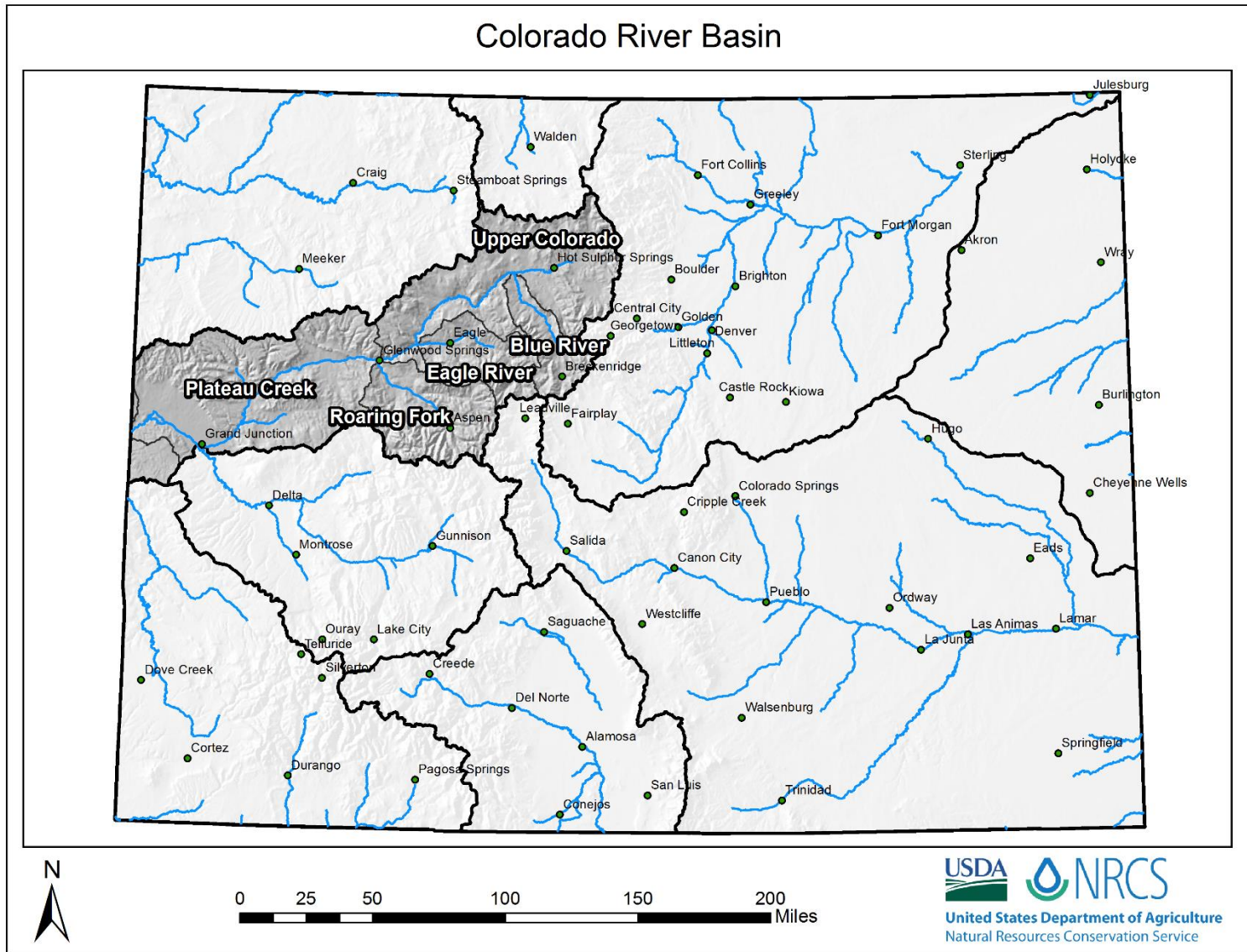


Yampa R Nr Maybell (09251000) Colorado STREAMFLOW Site - 5900 ft Reporting Frequency: Monthly; Date Range: Oct 2016 to Sep 2017



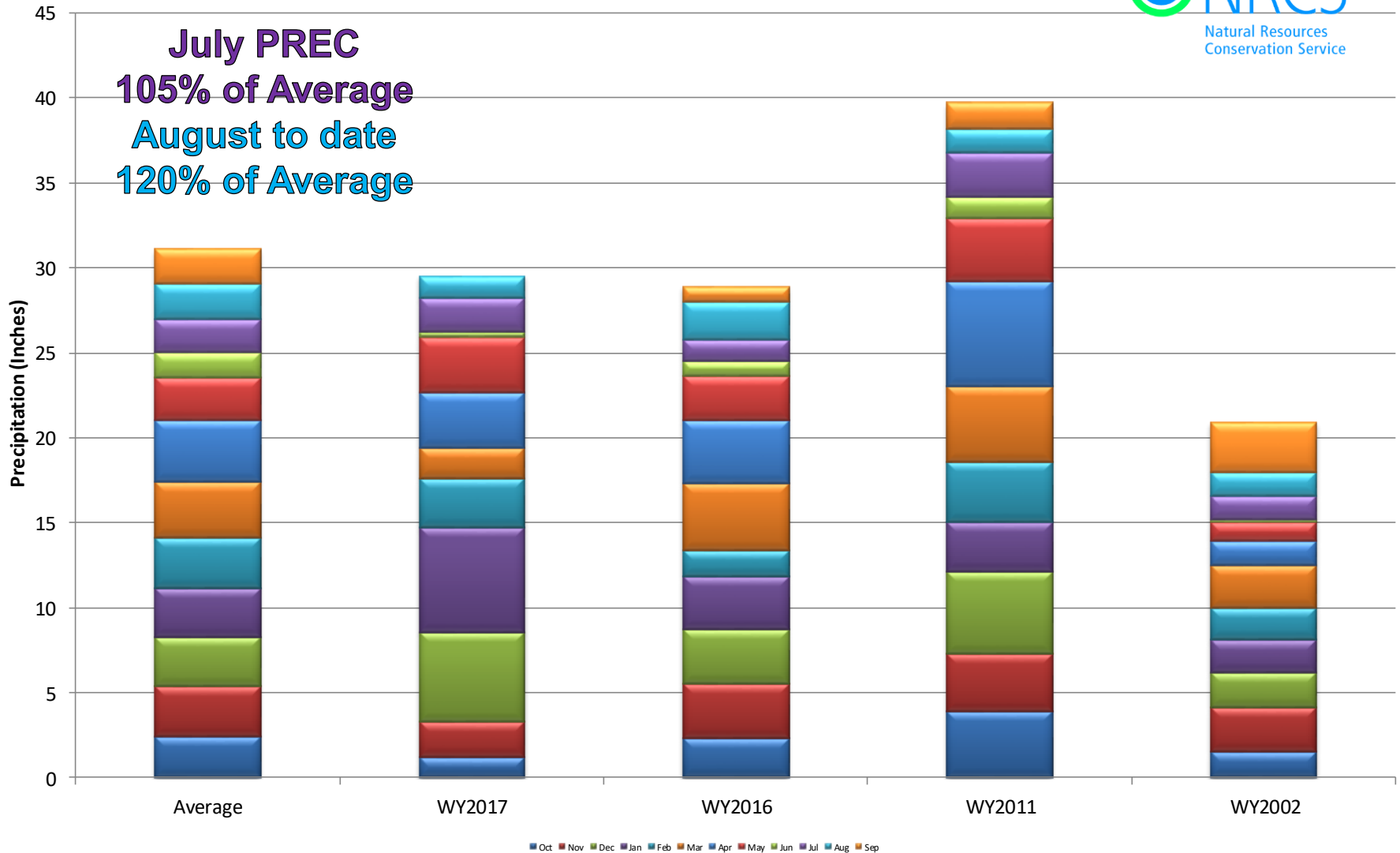


Major Basin Summary



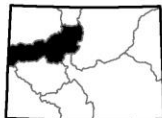
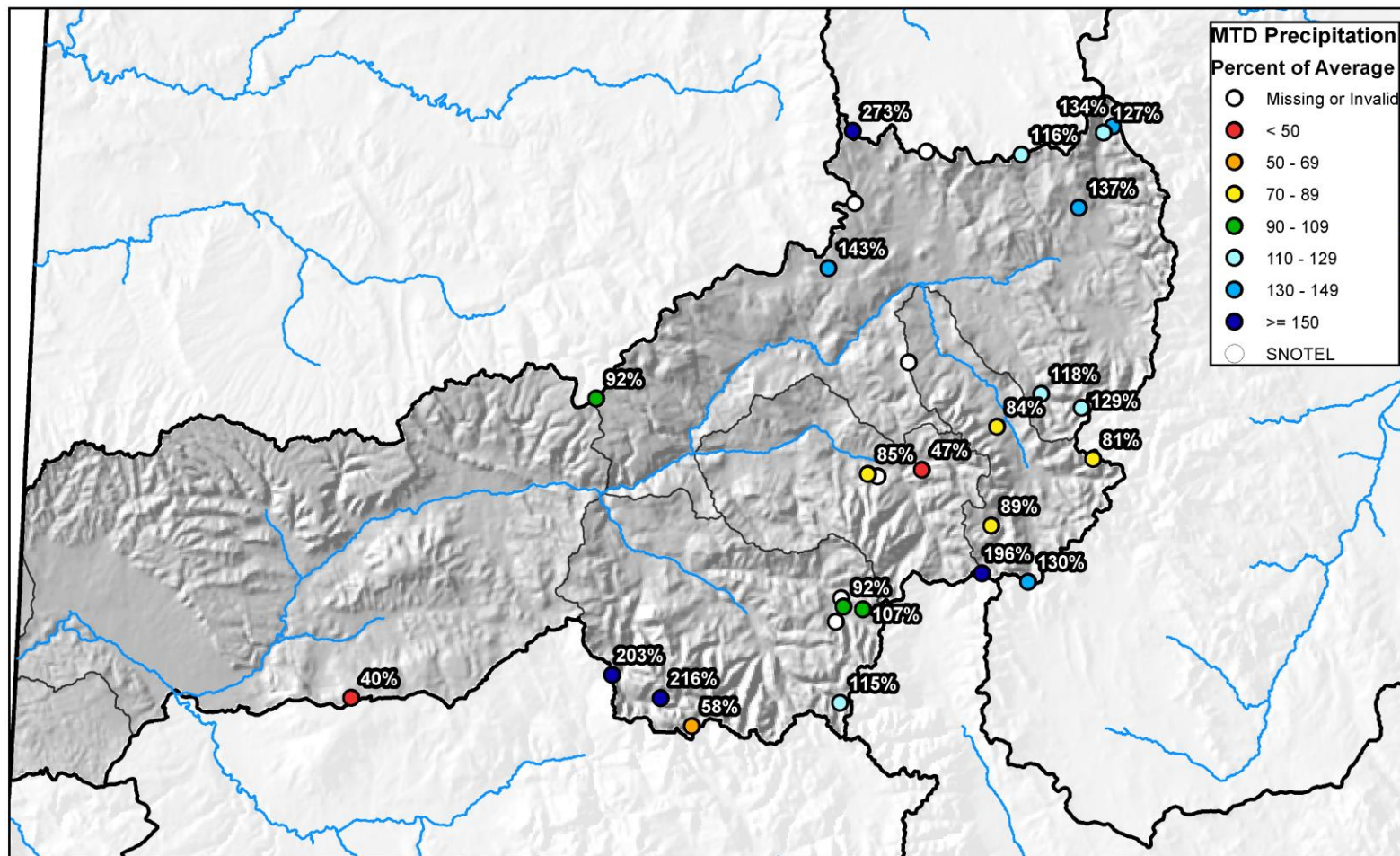
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2017



Upper Colorado River Basin Month to Date Precipitation Summary

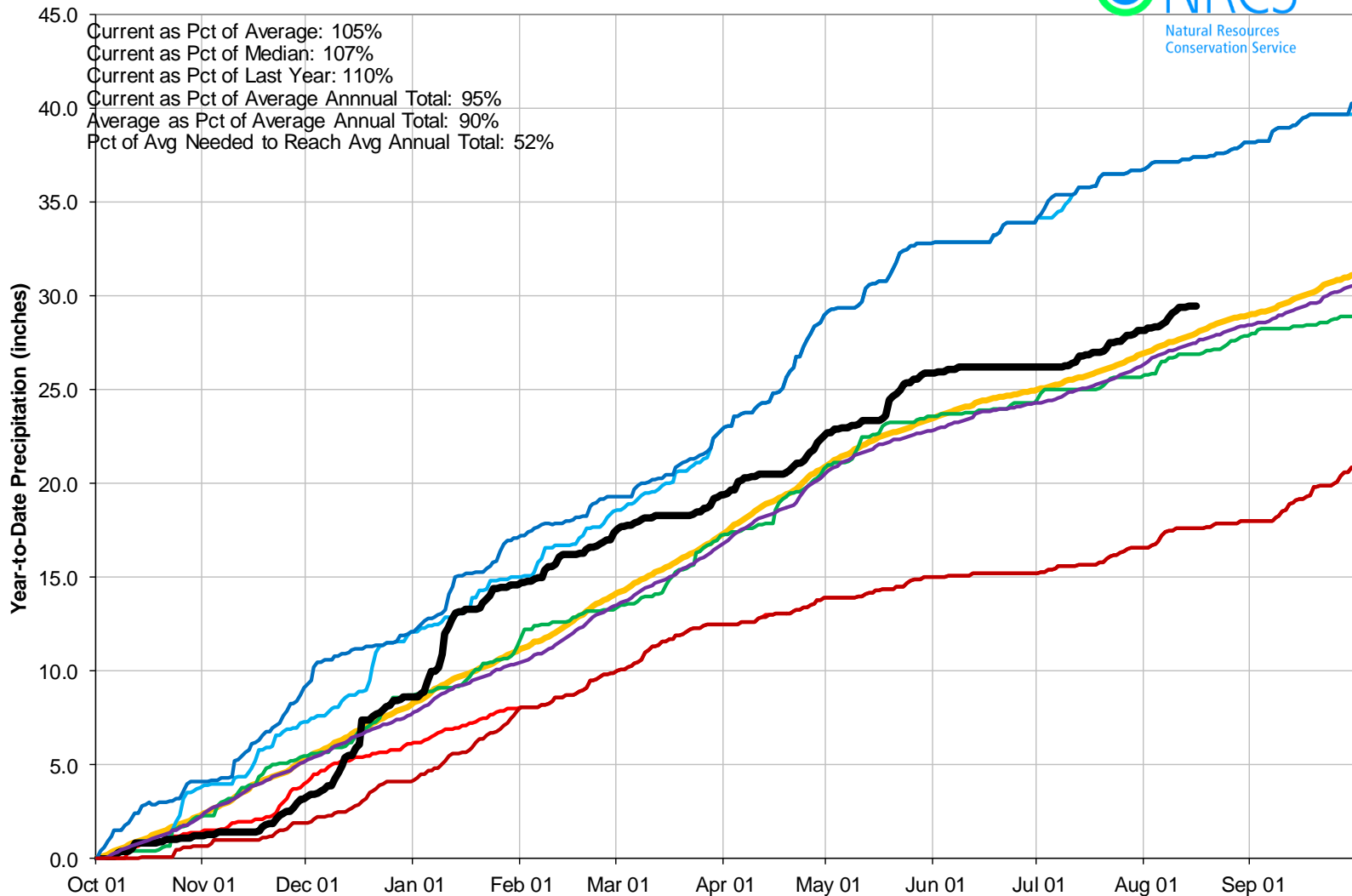
Current as of Aug 16, 2017



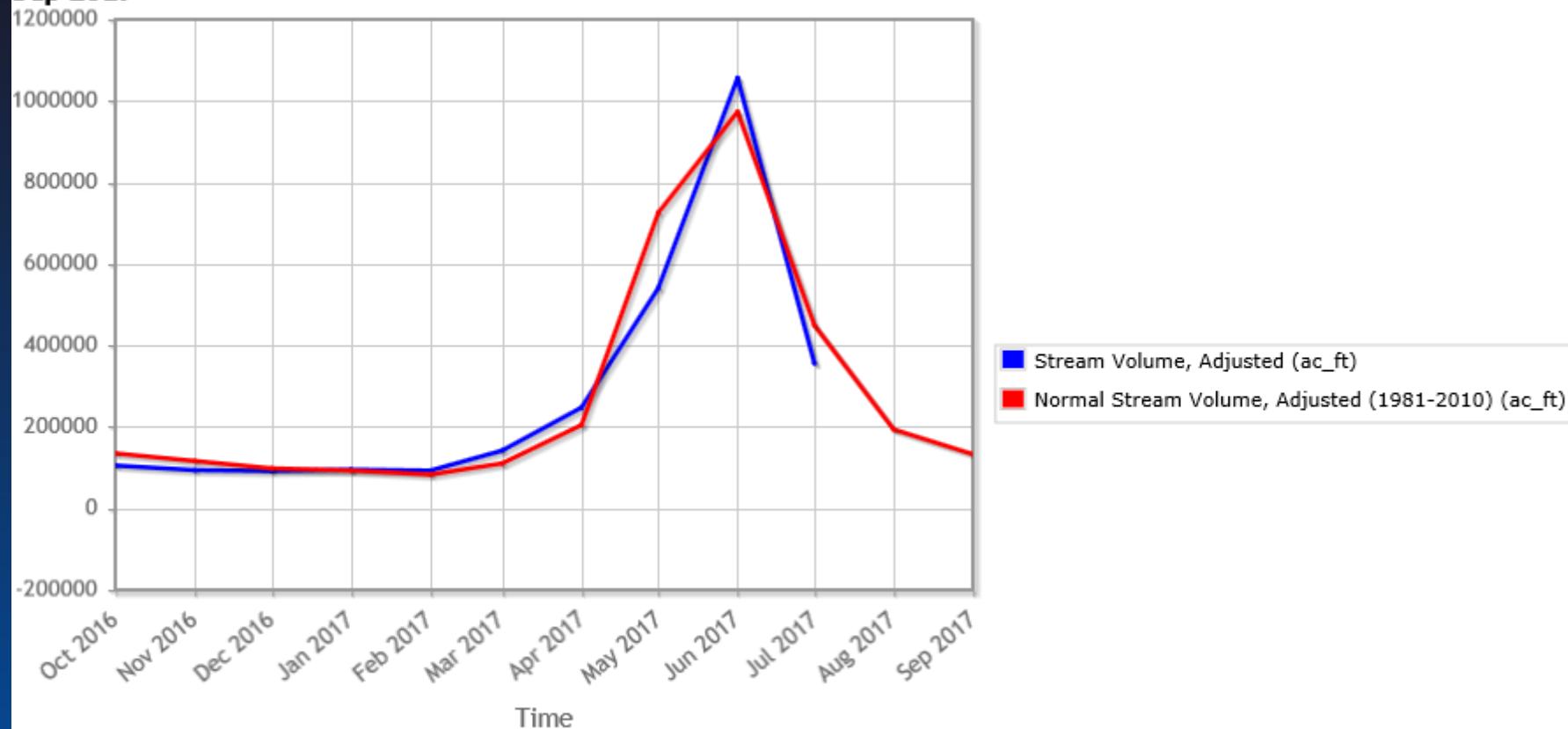
0 10 20 40 60 80 Miles

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

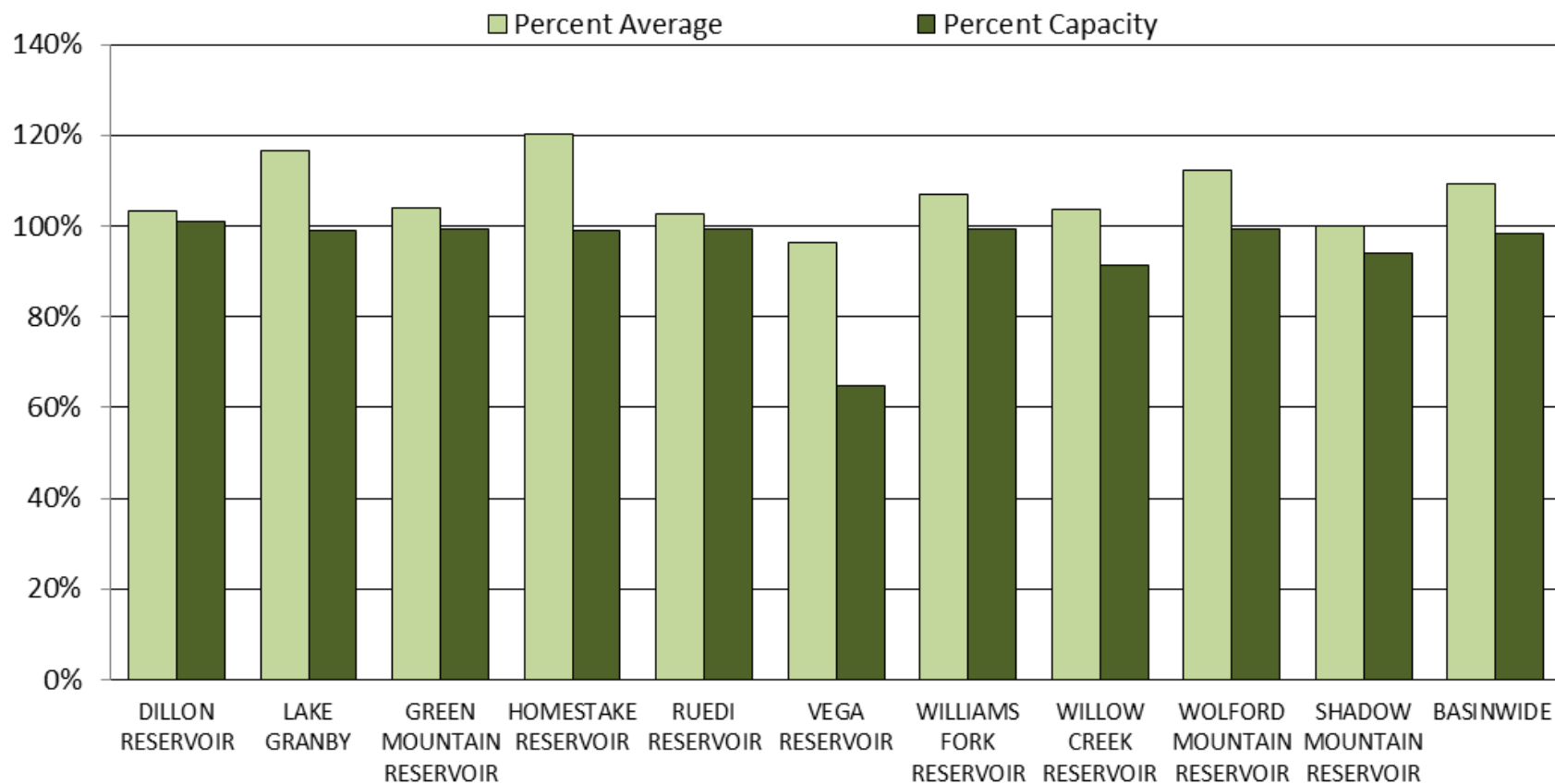
Based on Provisional SNOTEL data as of Aug 16, 2017



Colorado R Nr Cameo (09095500) Colorado STREAMFLOW Site - 4814 ft Reporting Frequency: Monthly; Date Range: Oct 2016 to Sep 2017

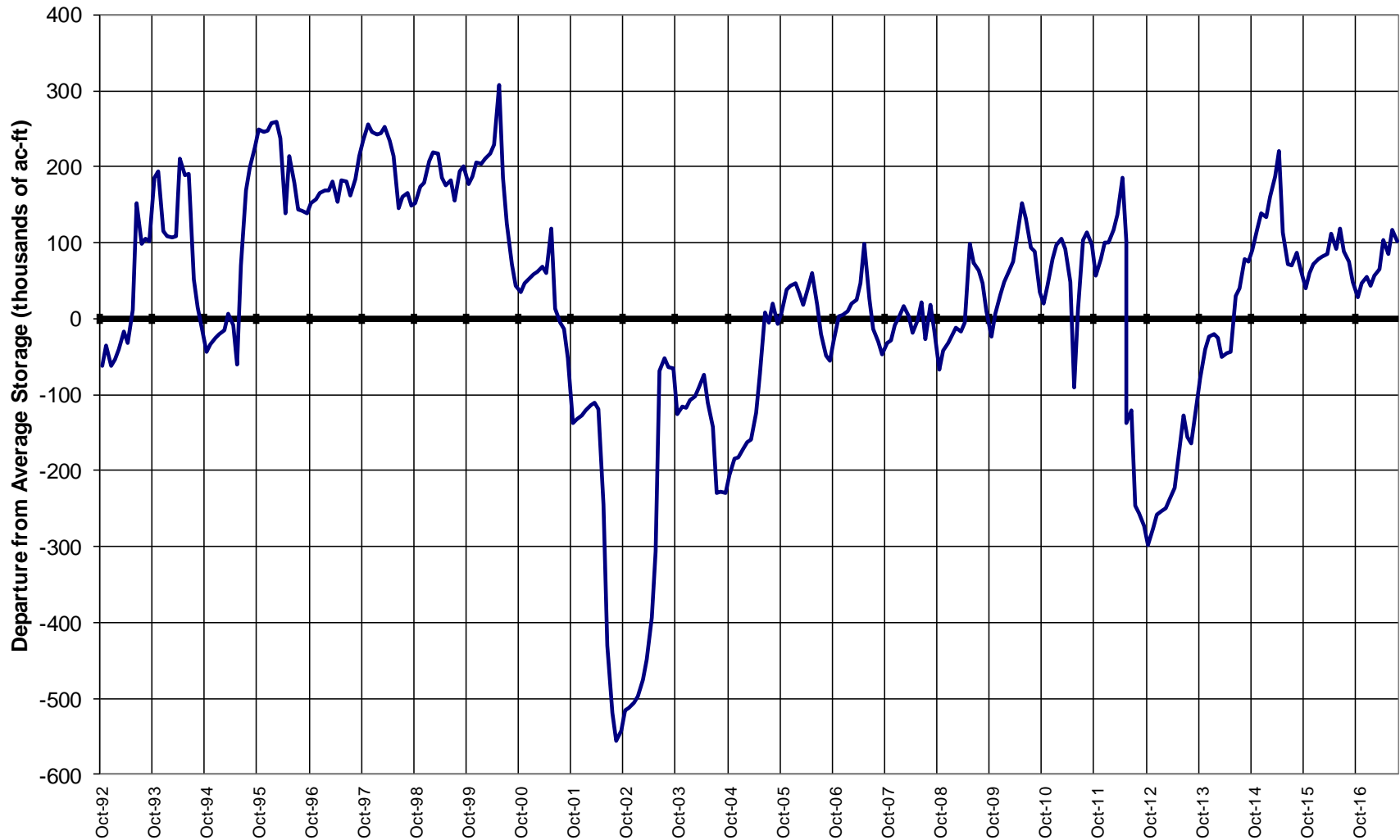


Reservoir Storage



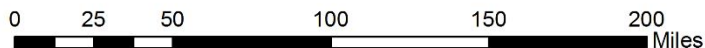
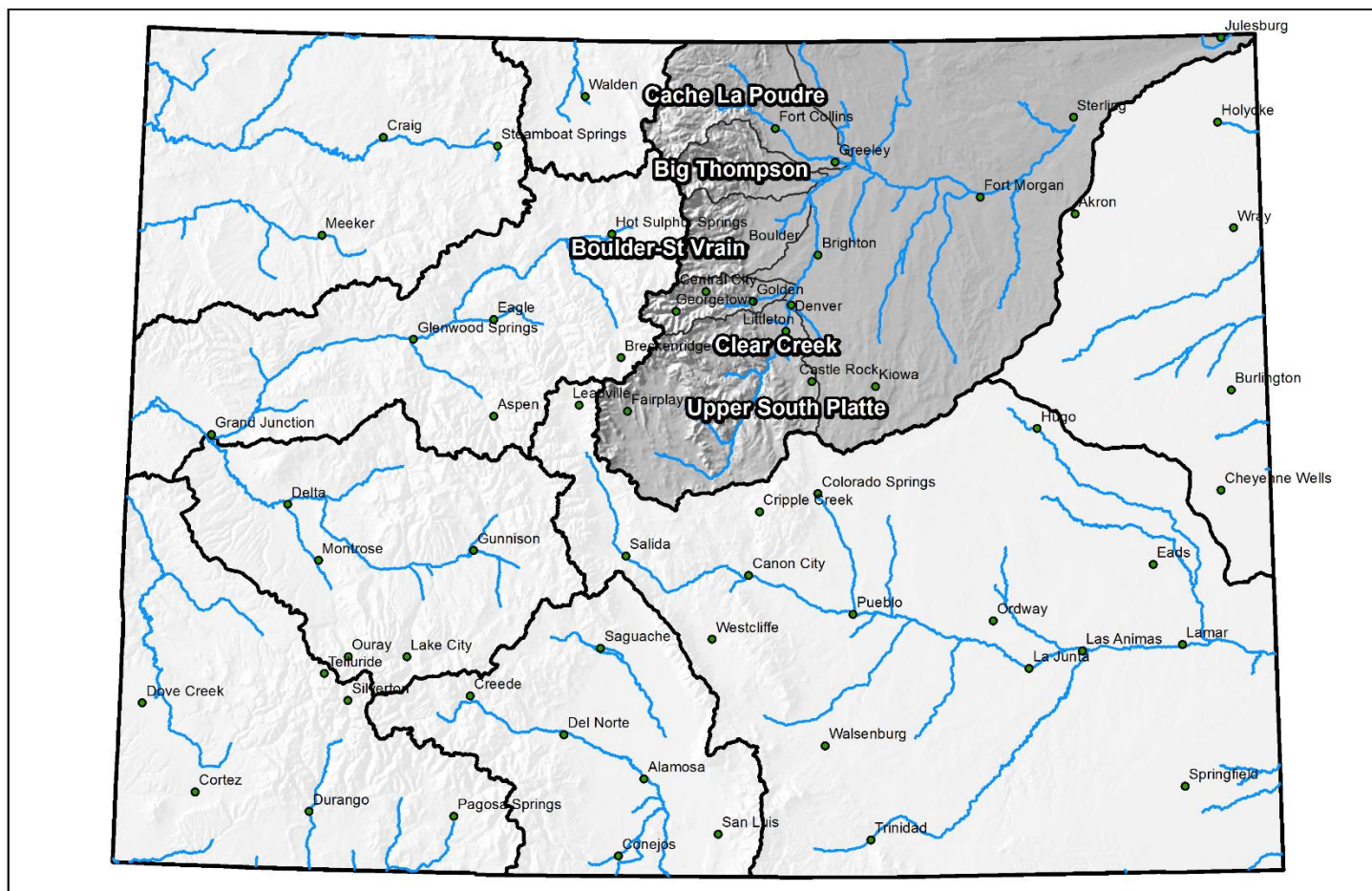


COLORADO RIVER BASIN Reservoir Storage Departure from Average



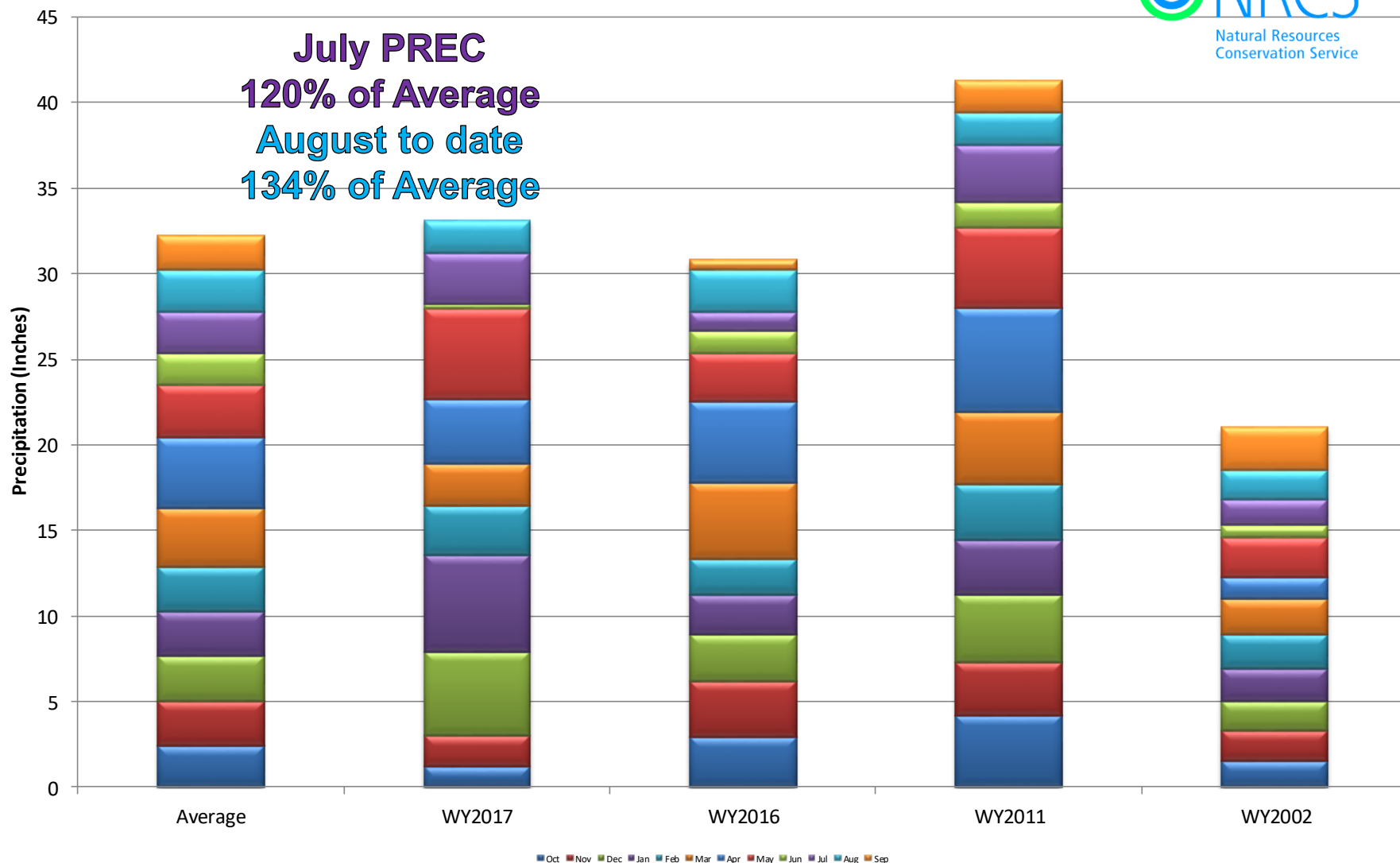
Major Basin Summary

South Platte River Basin



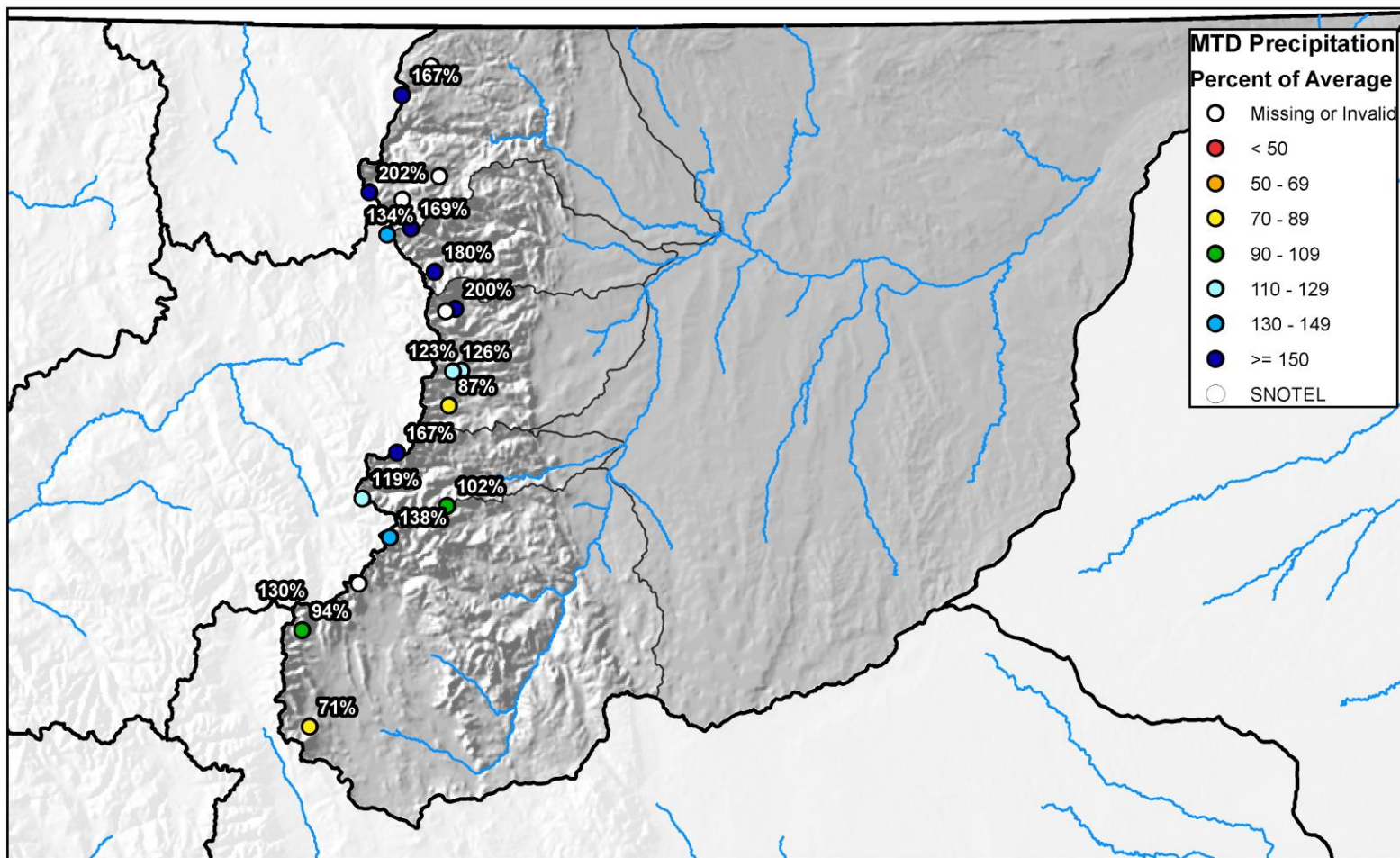
South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2017



South Platte River Basin Month to Date Precipitation Summary

Current as of Aug 16, 2017

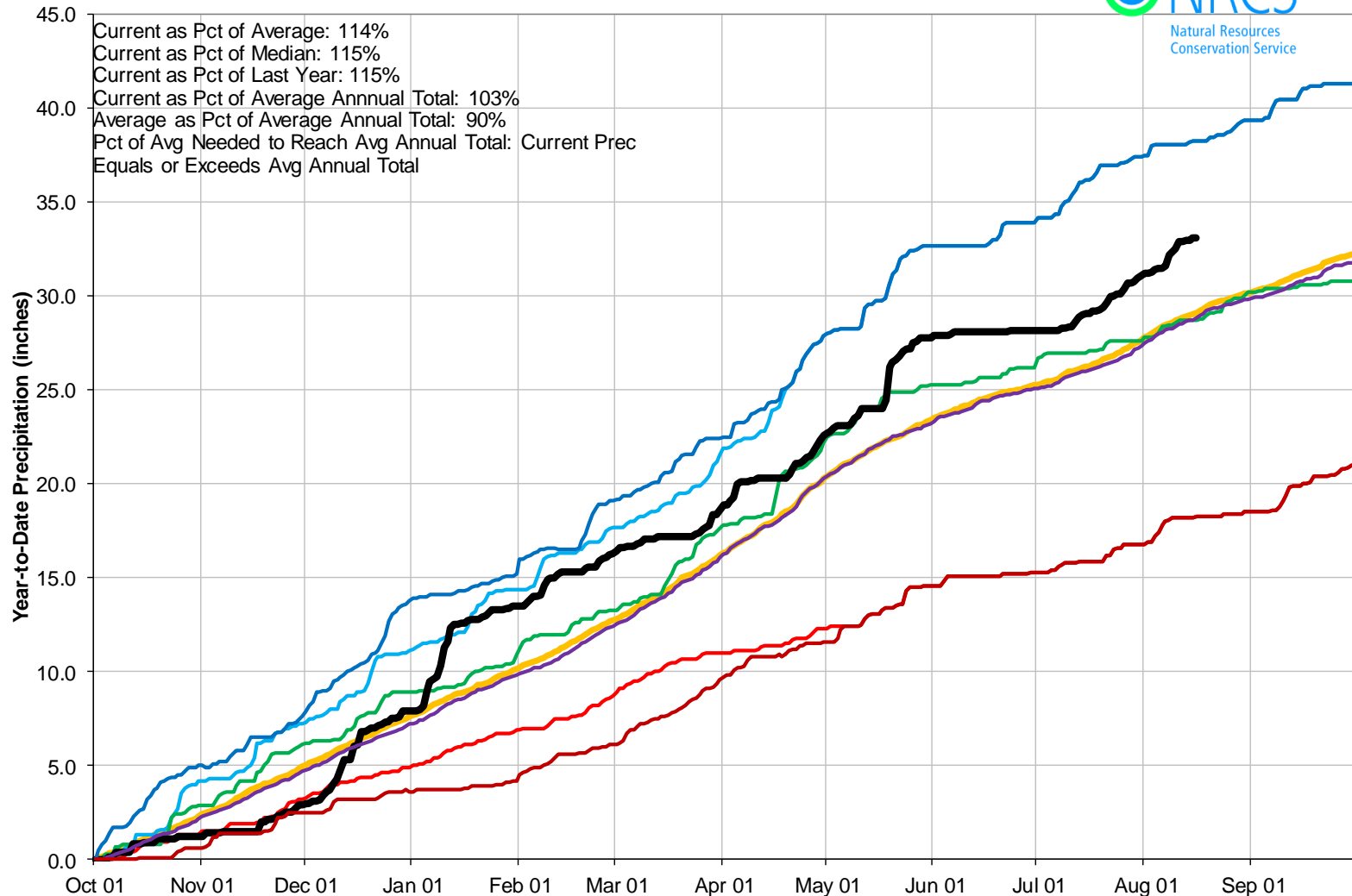


0 10 20 40 60 80 Miles



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

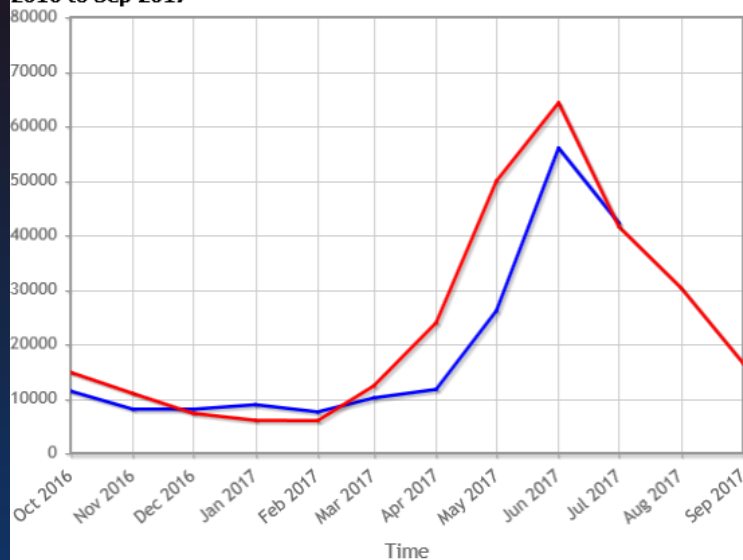
Based on Provisional SNOTEL data as of Aug 16, 2017



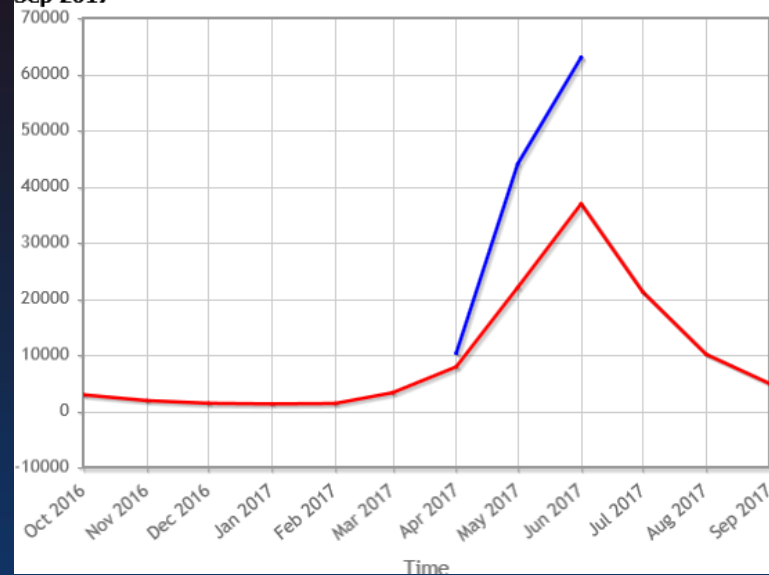


Colorado Snow Surveys

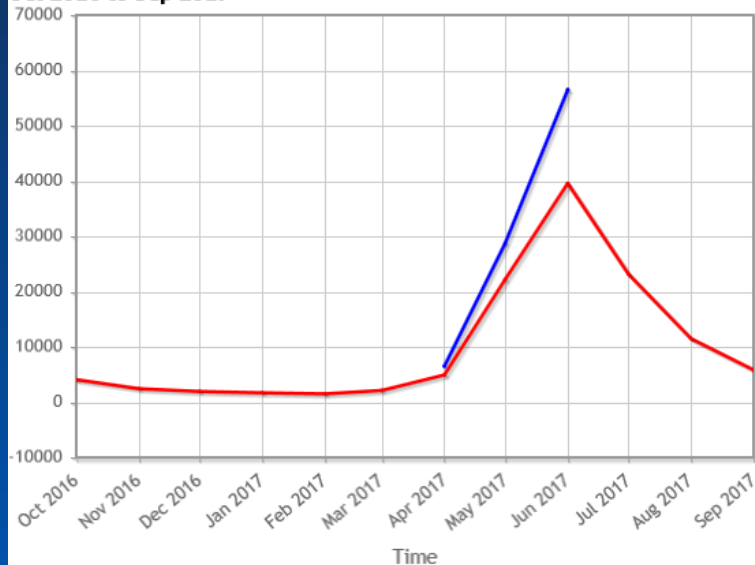
**South Platte R At South Platte (06707500) Colorado STREAMFLOW Site - 6600 ftRe
2016 to Sep 2017**



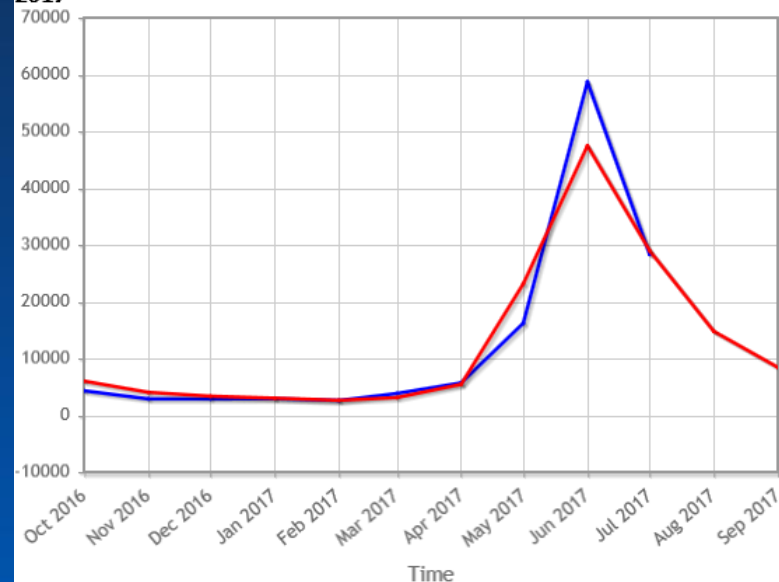
**St. Vrain Ck At Lyons (06724000) Colorado STREAMFLOW Site - 5292 ftRe
Sep 2017**

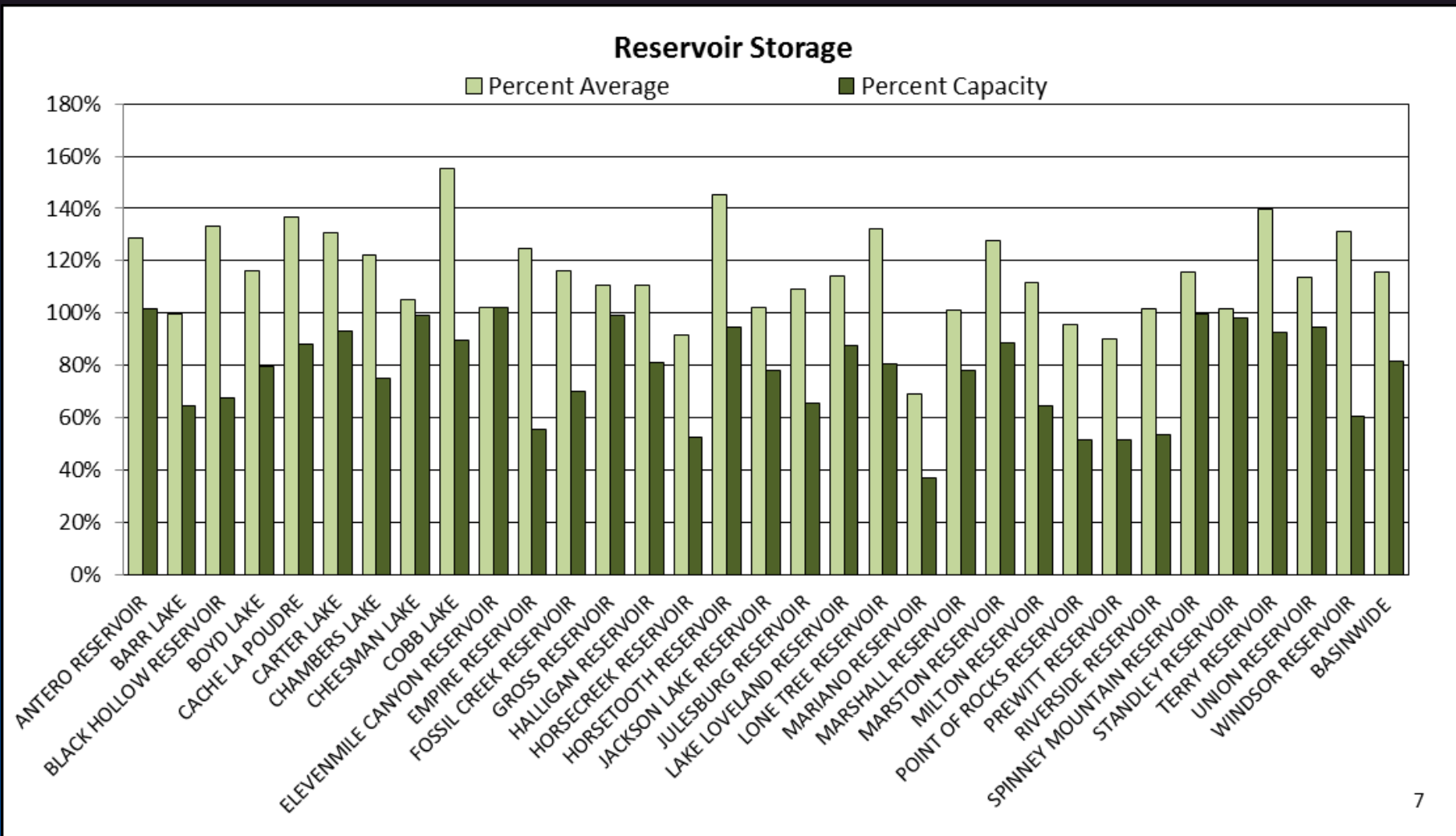


**Big Thompson R At Canyon Mouth (06738000) Colorado STREAMFLOW Site - 6600 ftRe
Oct 2016 to Sep 2017**



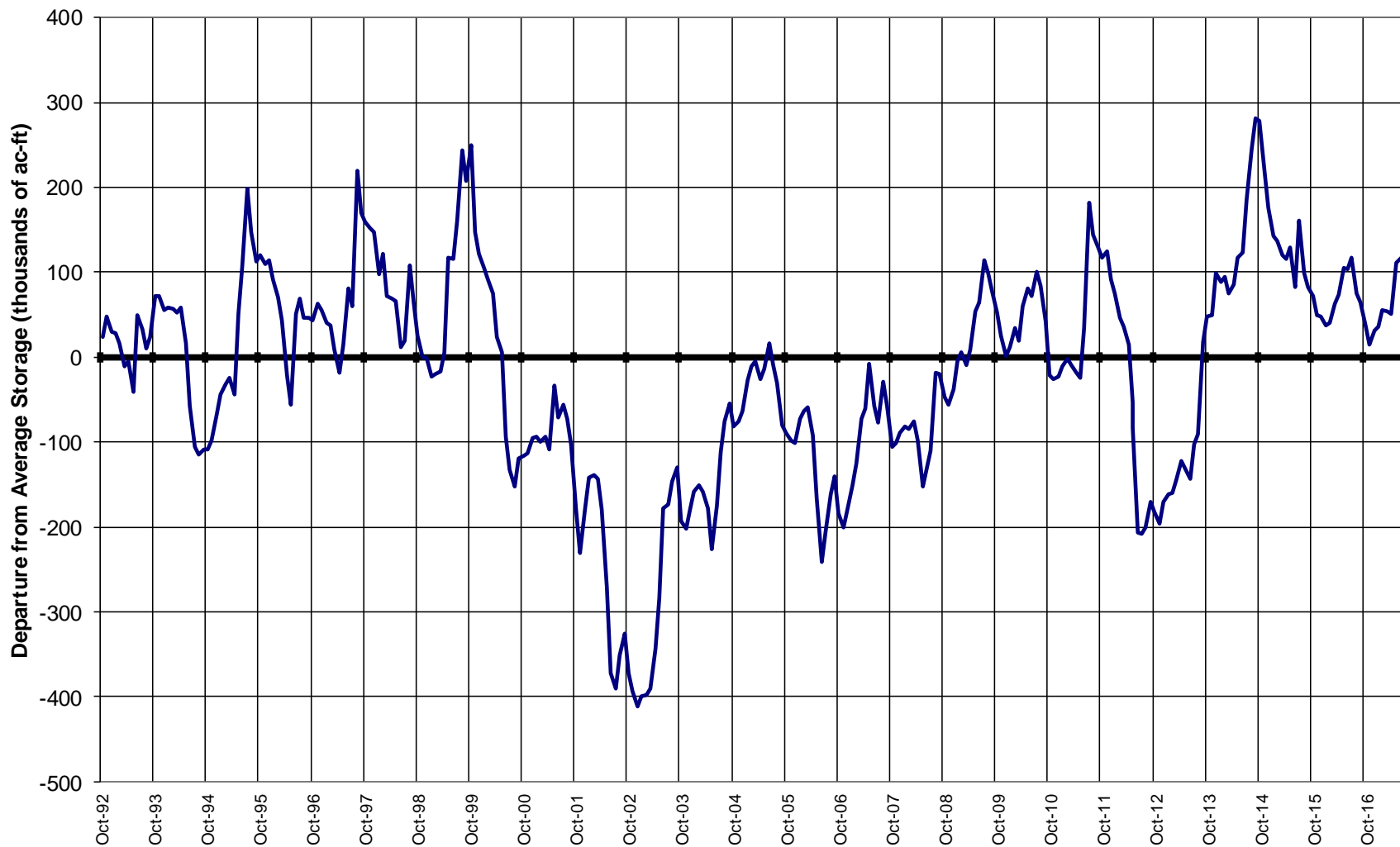
**Clear Ck At Golden (06719505) Colorado STREAMFLOW Site - 5695 ftRe
2017**





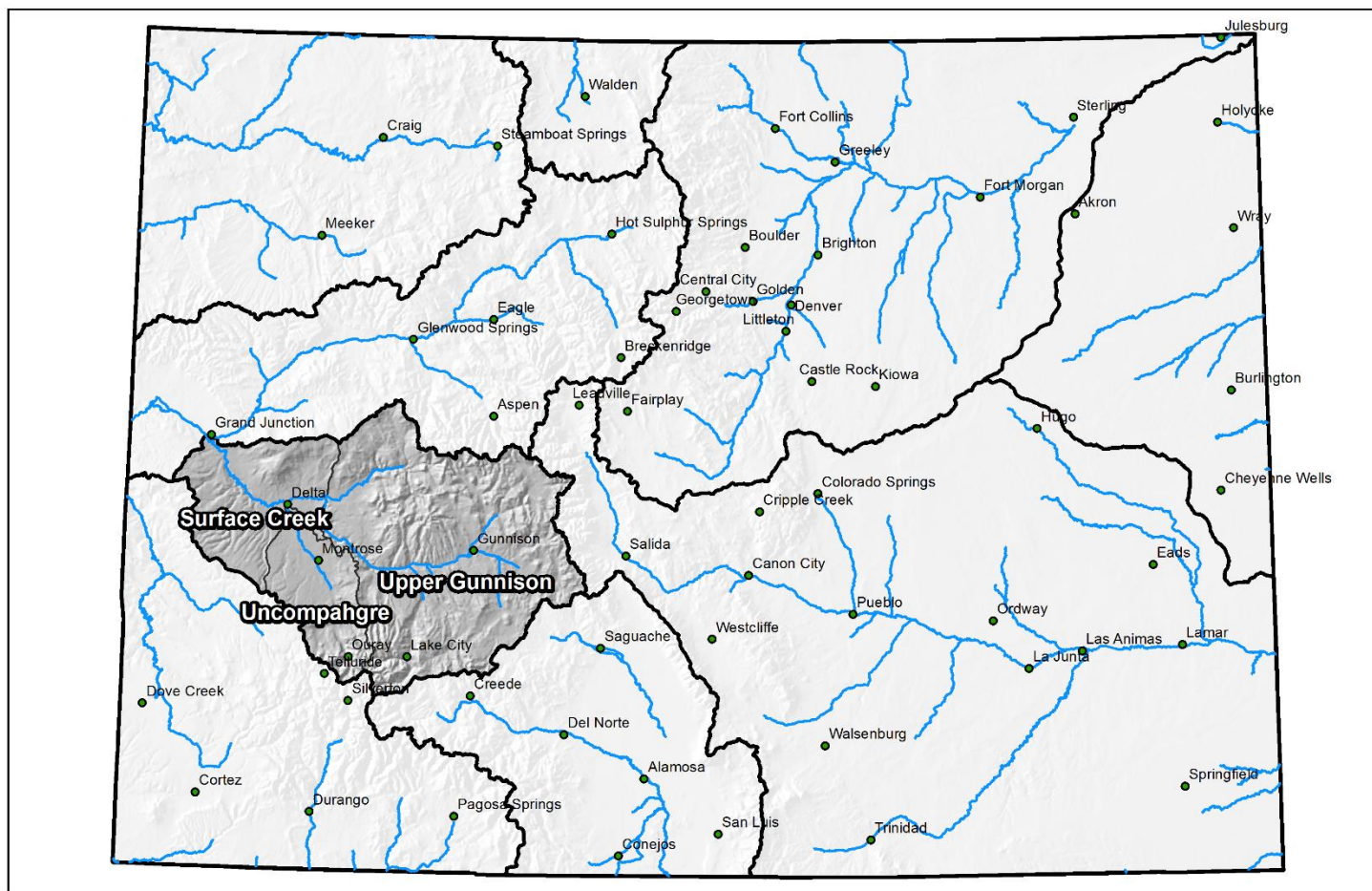


SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

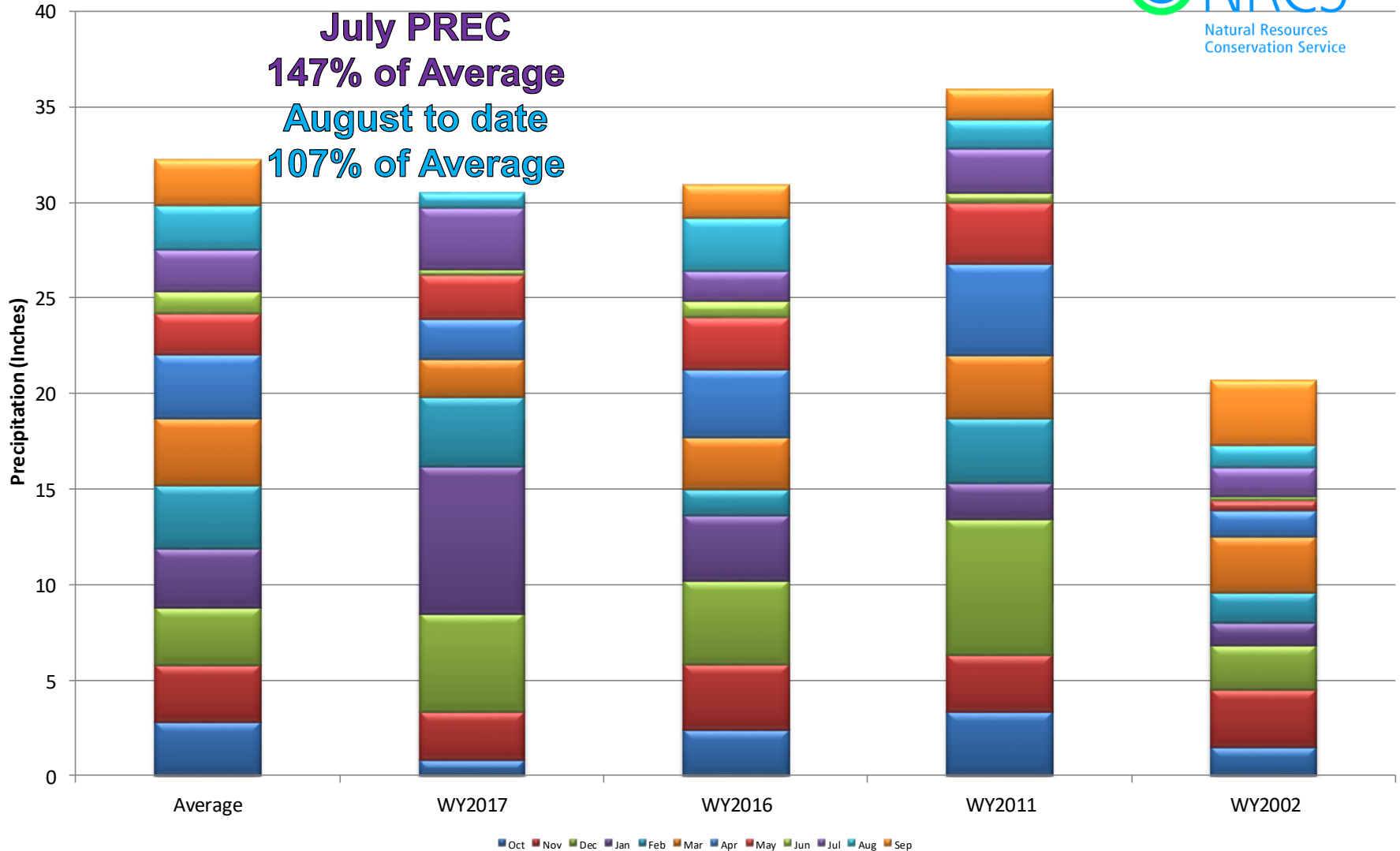
Gunnison River Basin



0 25 50 100 150 200 Miles

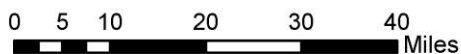
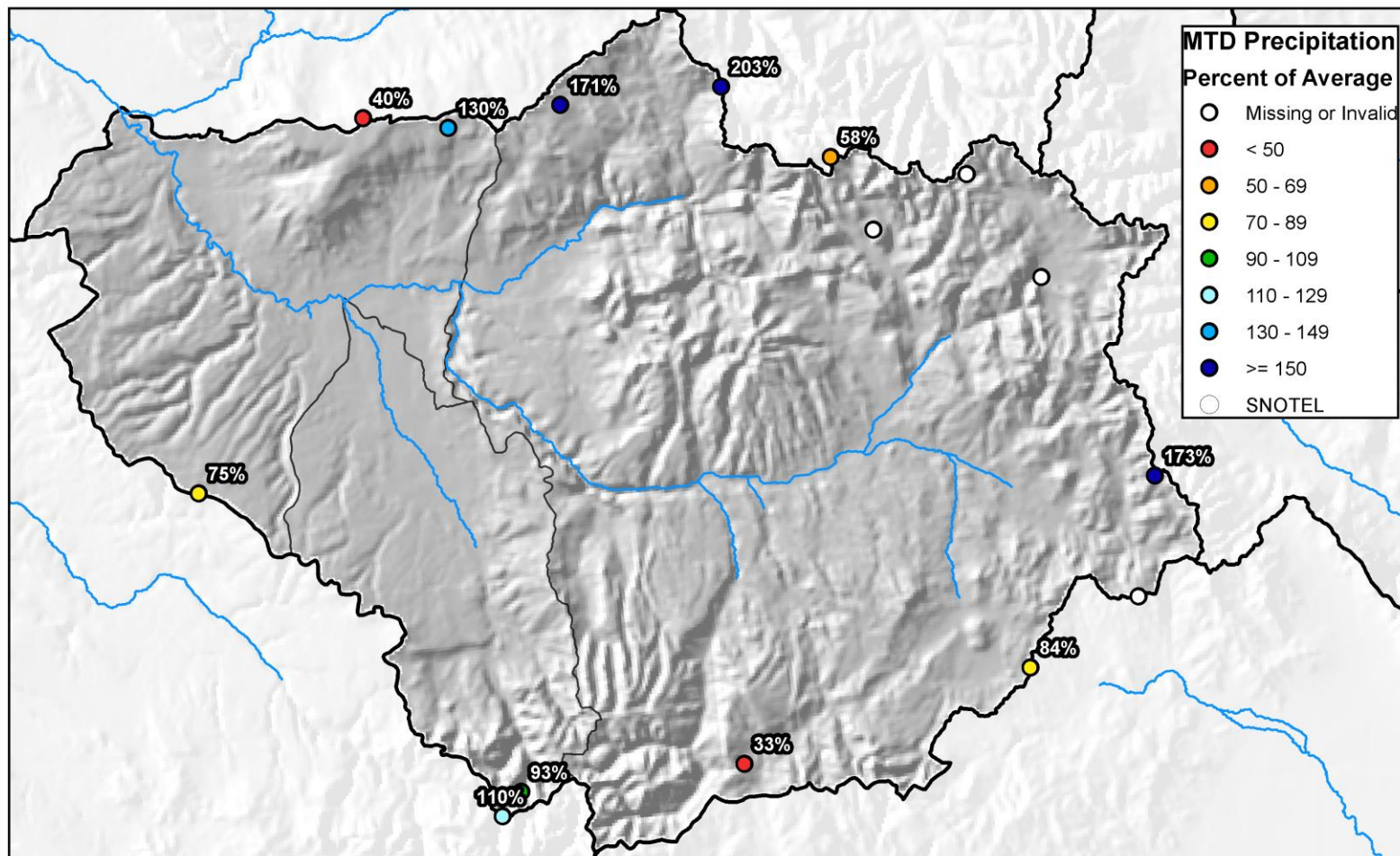
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2017



Gunnison River Basin Month to Date Precipitation Summary

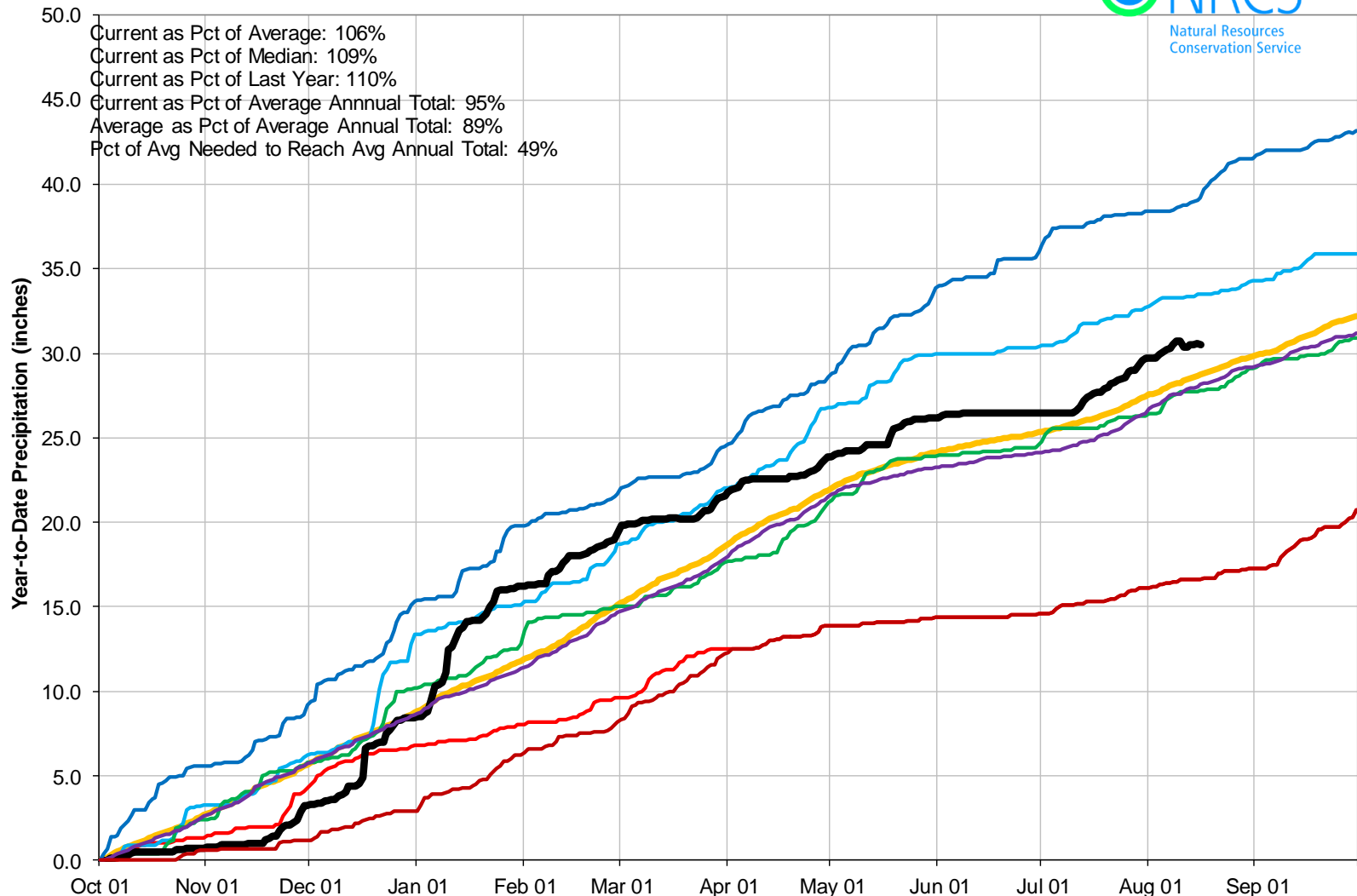
Current as of Aug 16, 2017



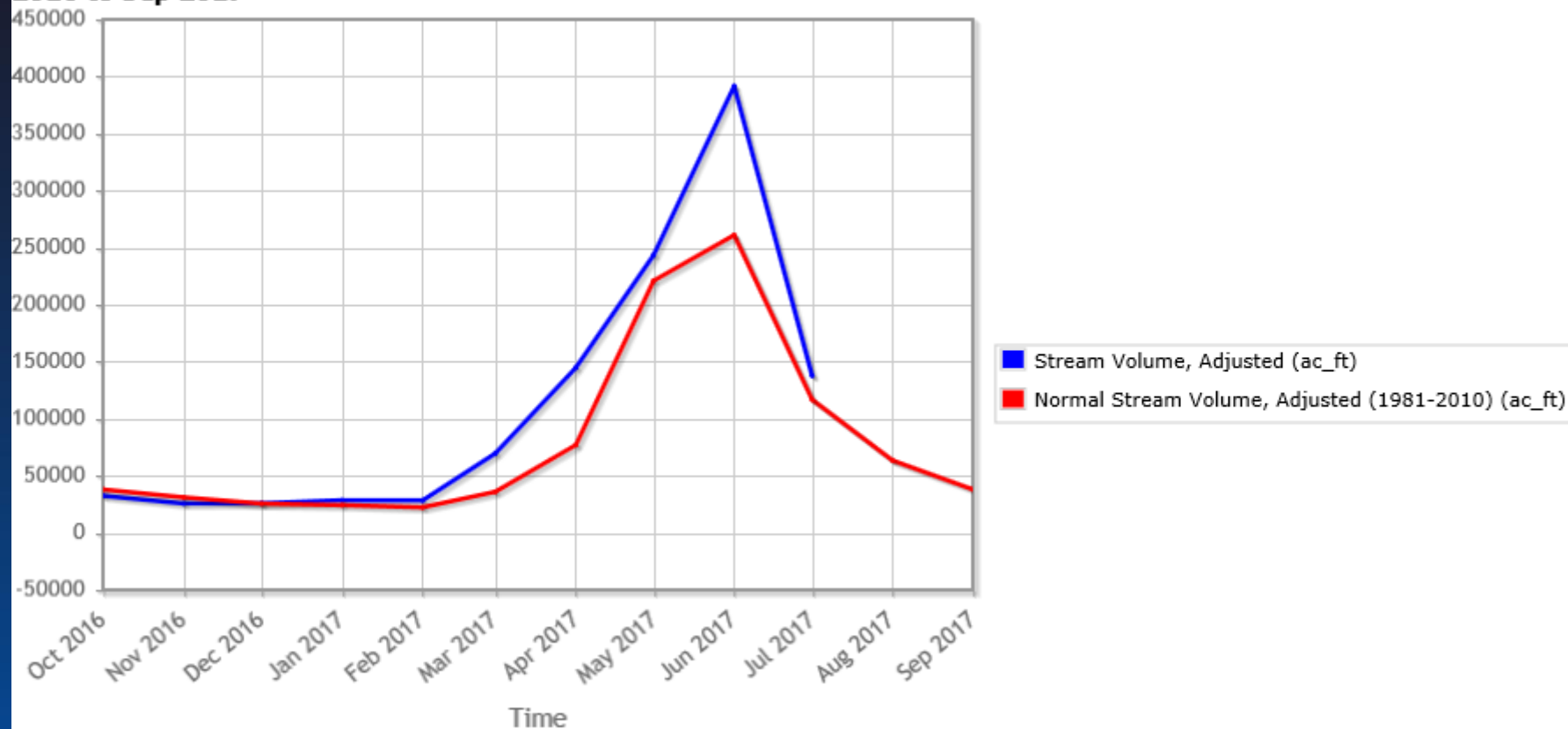


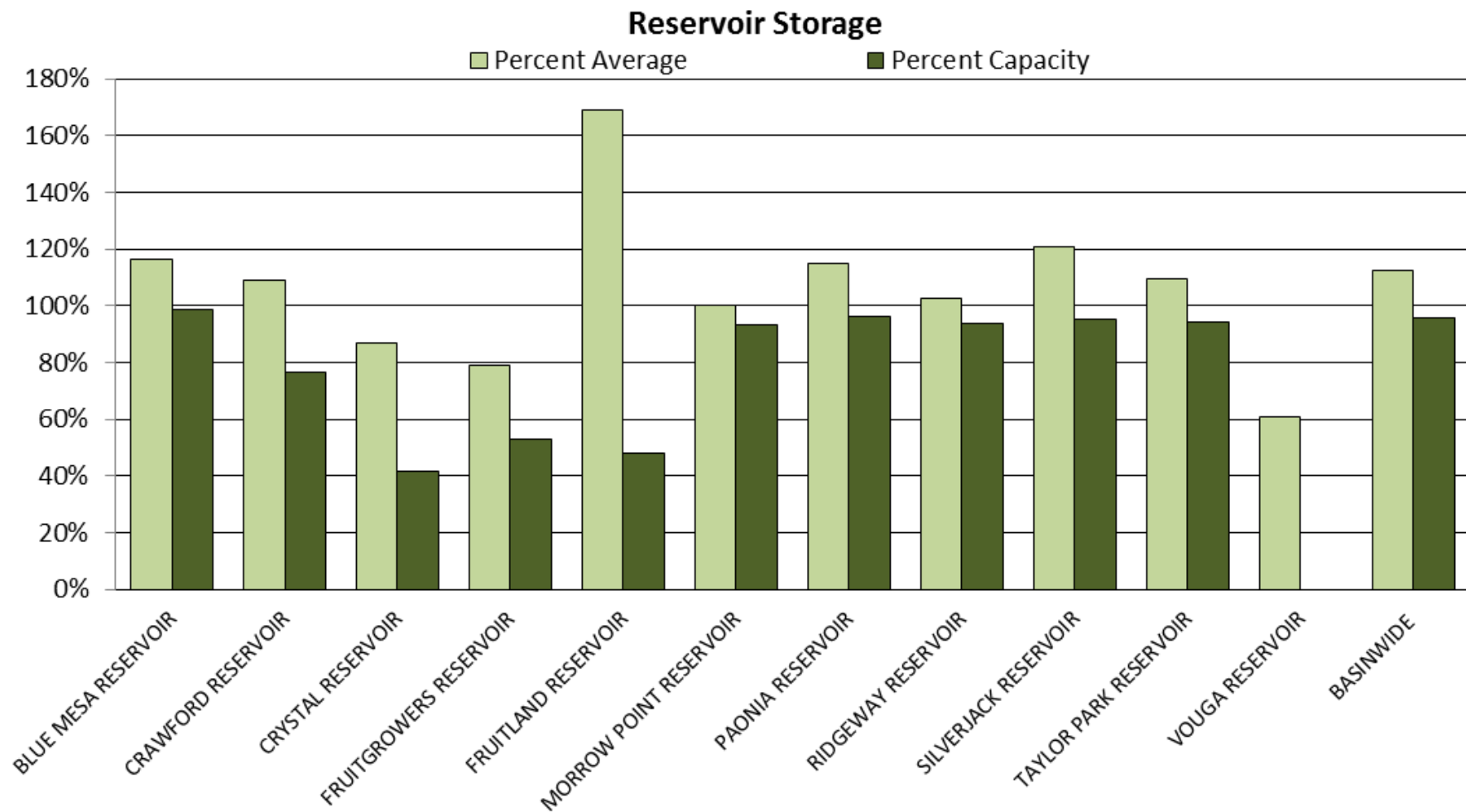
Gunnison River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2017



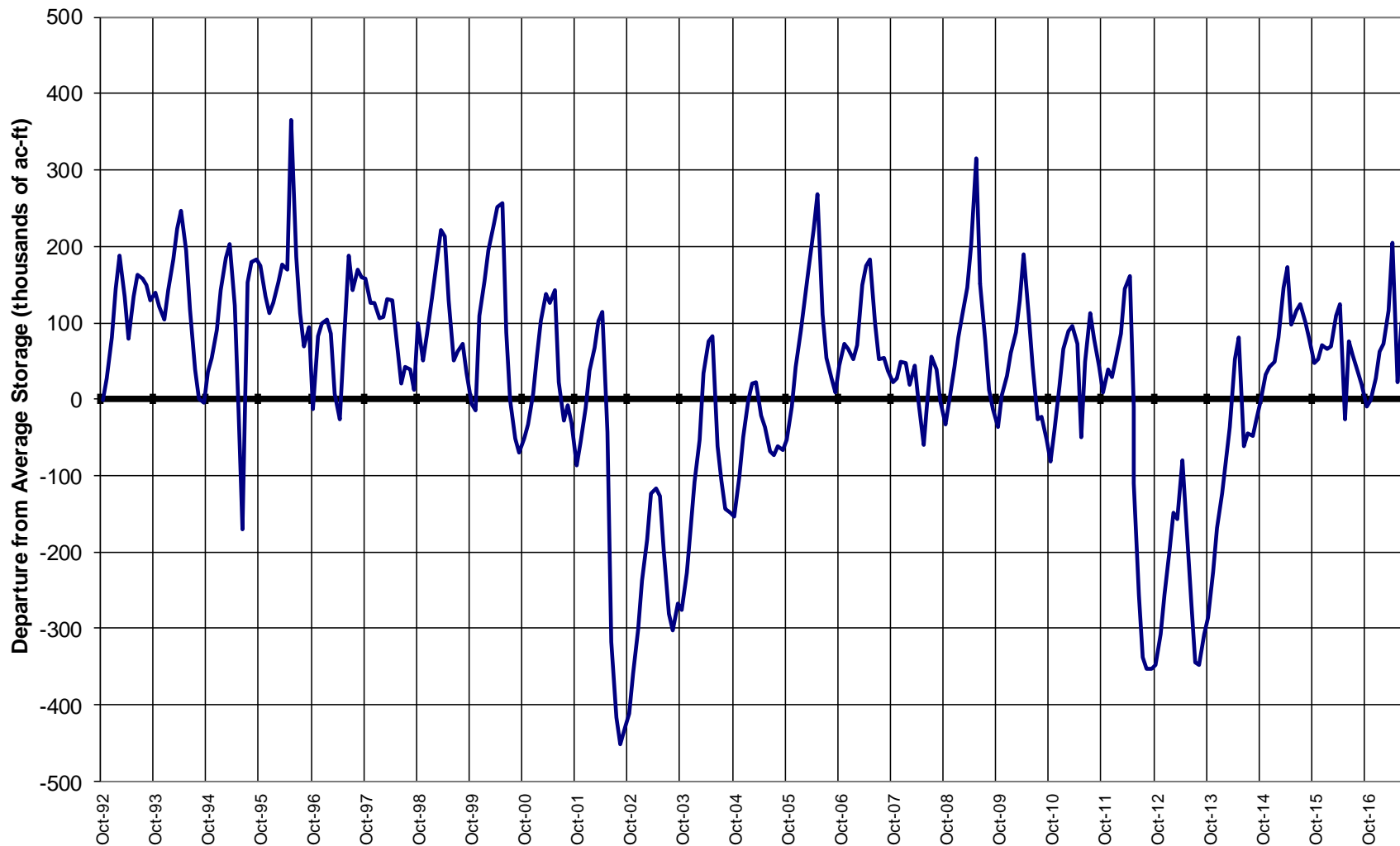
Gunnison R At Blue Mesa Dam (09124800) Colorado STREAMFLOW Site - 7149 ft Reporting Frequency: Monthly; Date Range: 2016 to Sep 2017





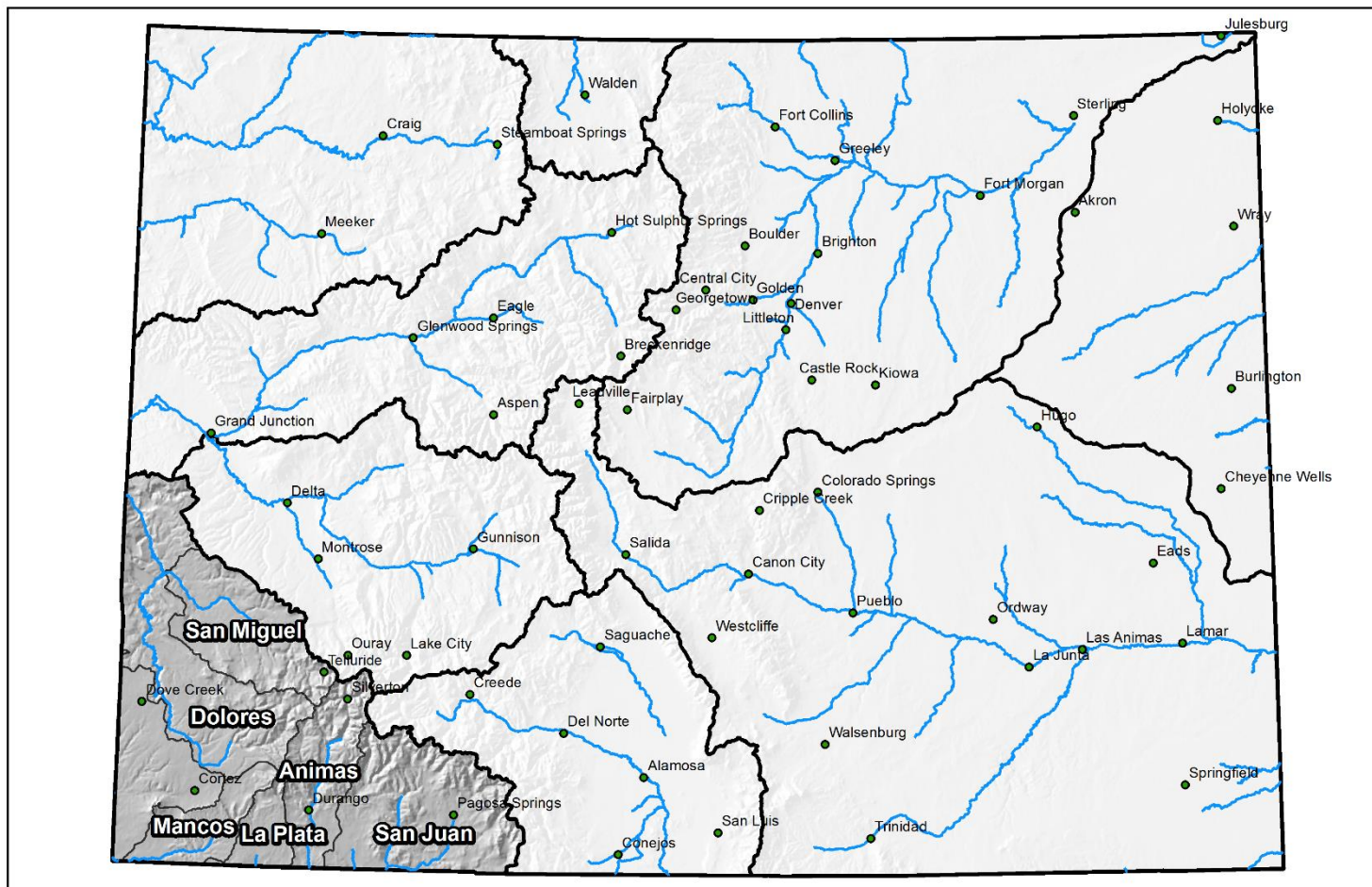


GUNNISON RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

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

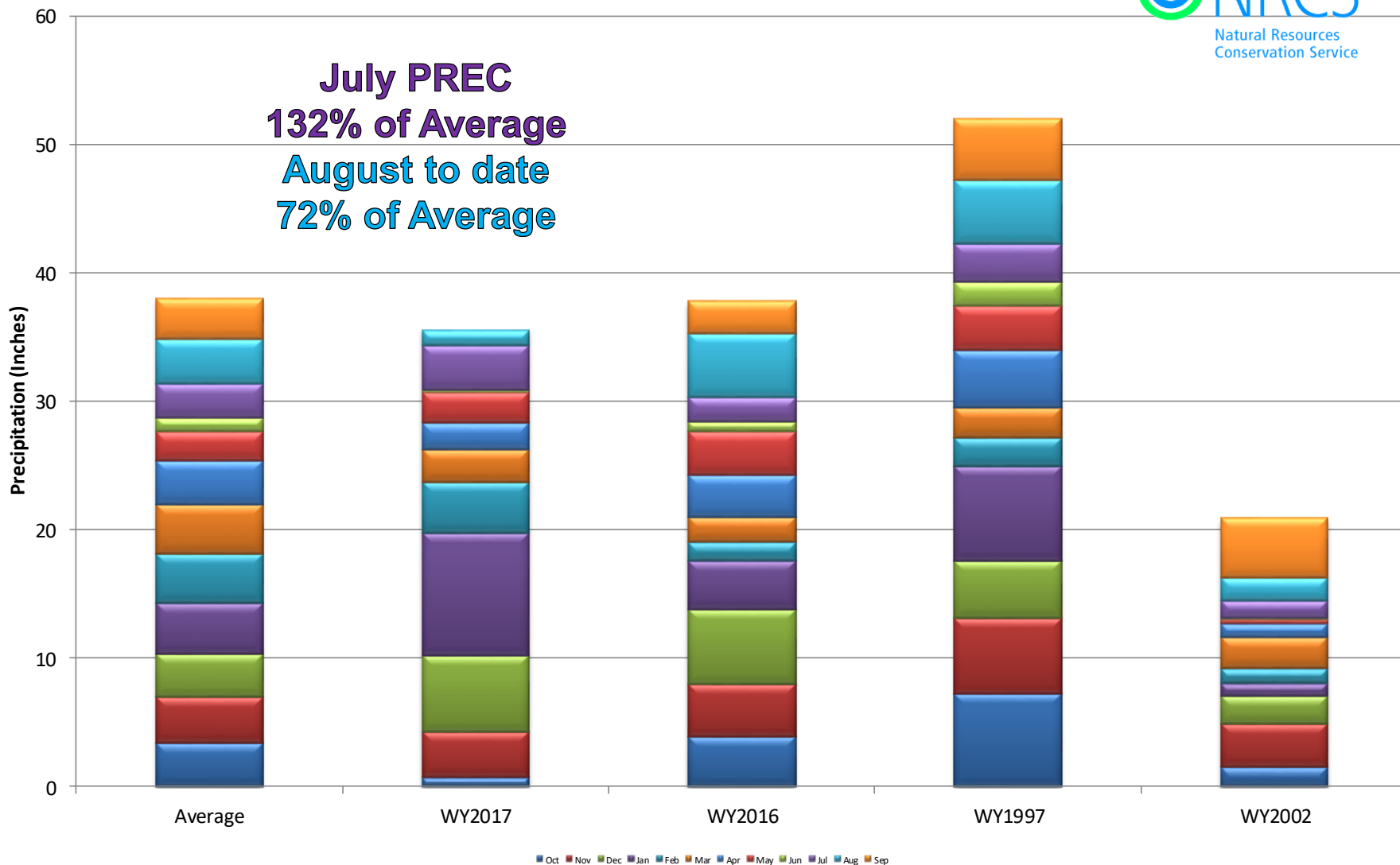


0 25 50 100 150 200 Miles

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



July PREC
132% of Average
August to date
72% of Average

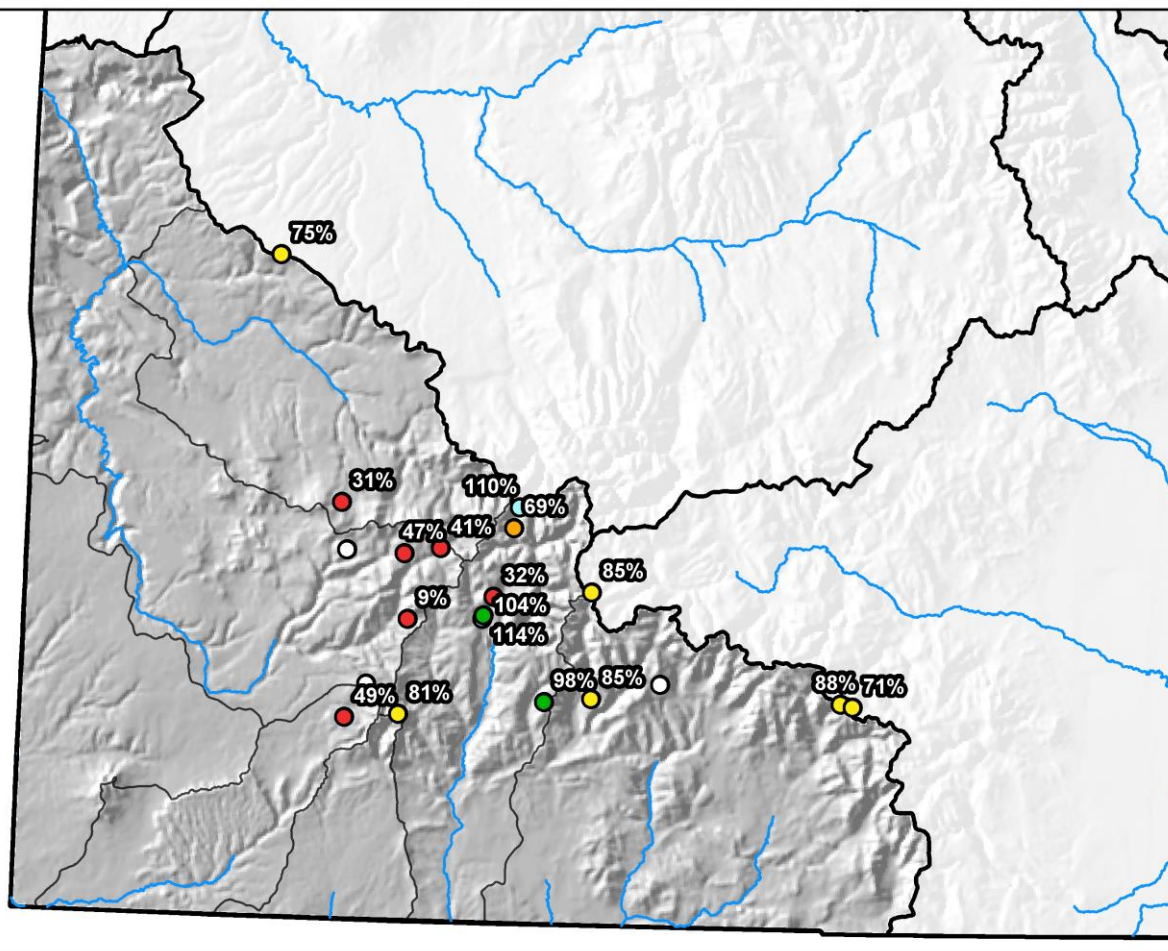


San Miguel, Dolores, Animas, and San Juan River Basins Month to Date Precipitation Summary

Current as of Aug 16, 2017

MTD Precipitation Percent of Average

- Missing or Invalid
- < 50
- 50 - 69
- 70 - 89
- 90 - 109
- 110 - 129
- 130 - 149
- >= 150
- SNOTEL

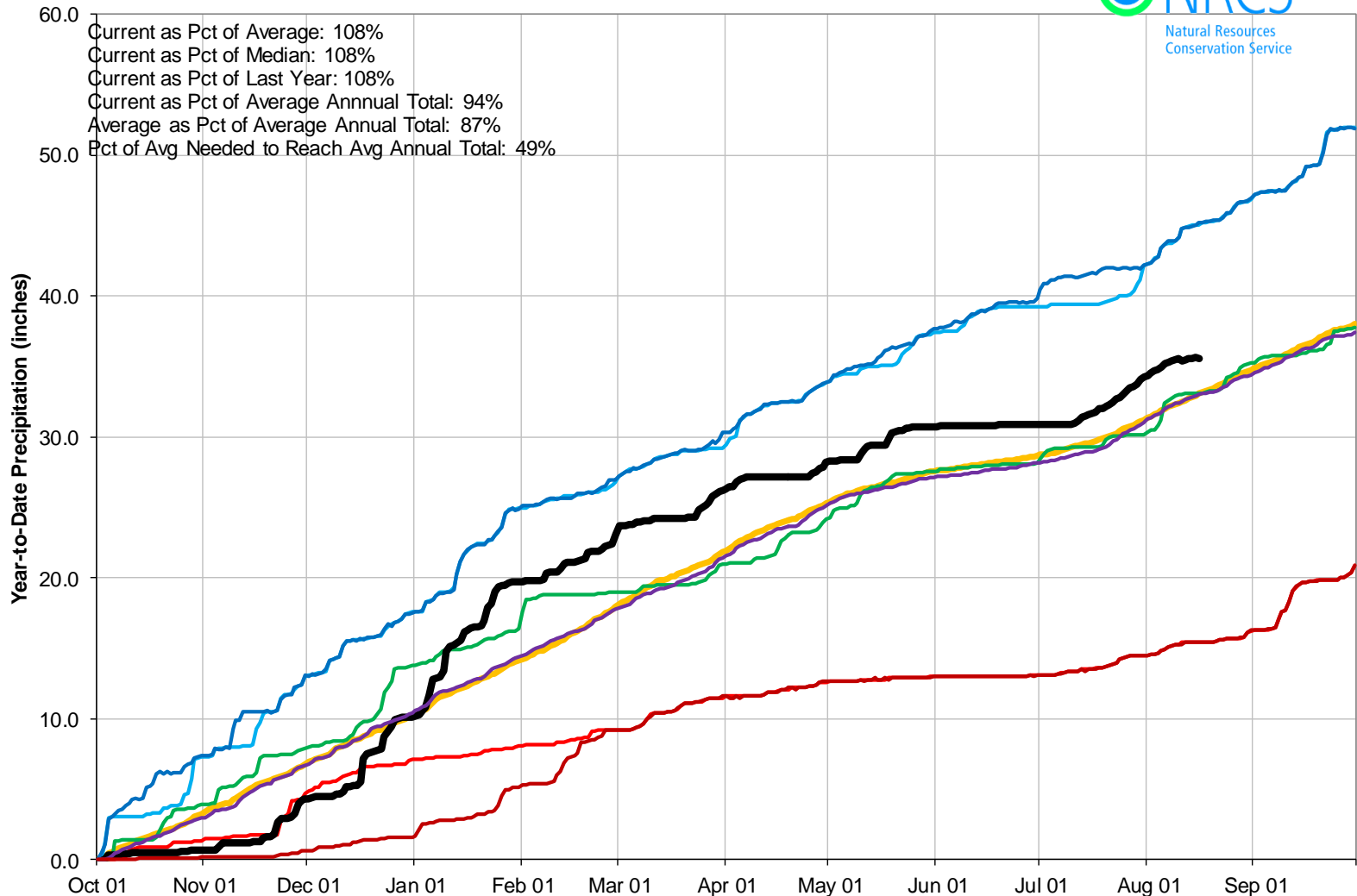


0 10 20 40 60 80 Miles



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

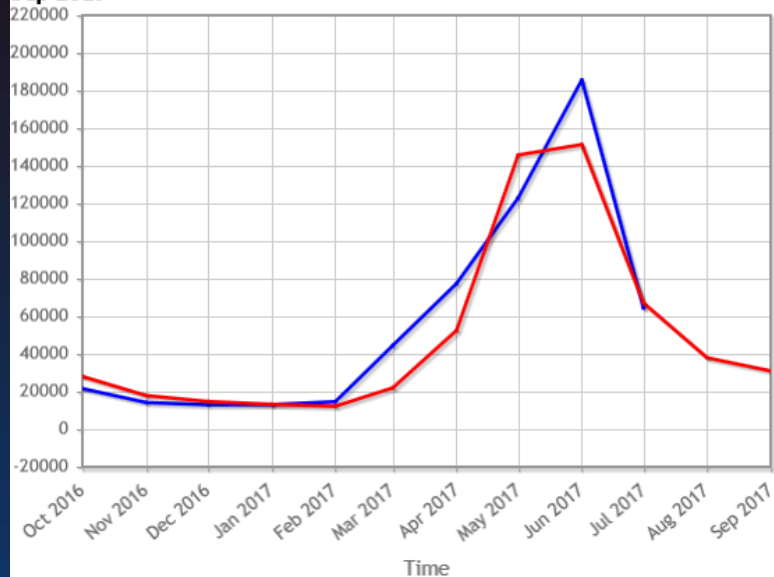
Based on Provisional SNOTEL data as of Aug 16, 2017



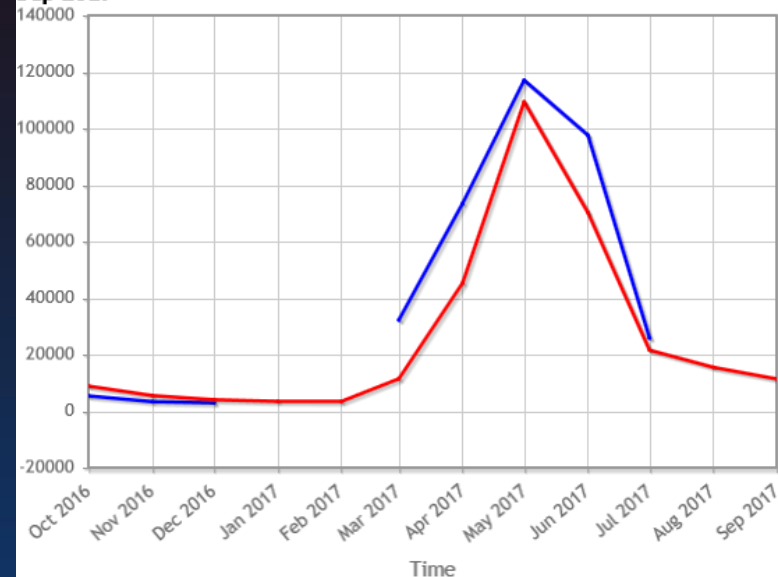


Colorado Snow Surveys

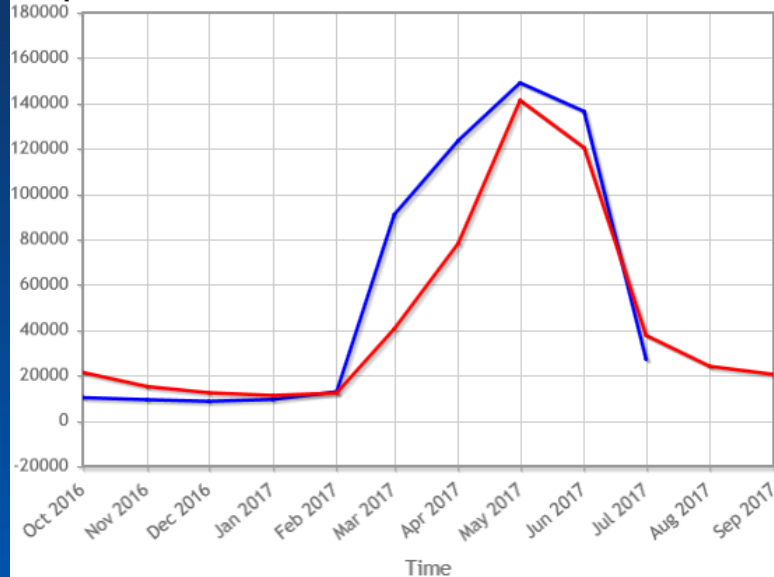
**Animas R At Durango (09361500) Colorado STREAMFLOW Site - 6502 ftR
Sep 2017**



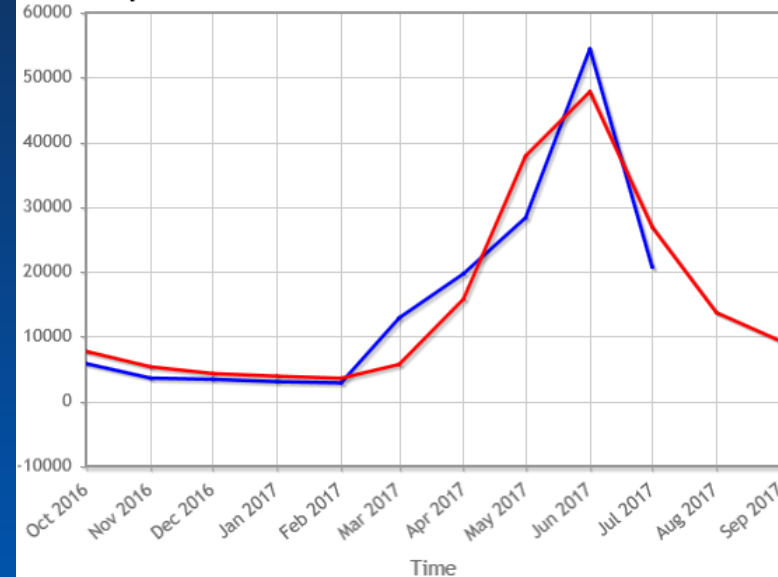
**Dolores R At Dolores (09166500) Colorado STREAMFLOW Site - 6940 ftR
Sep 2017**

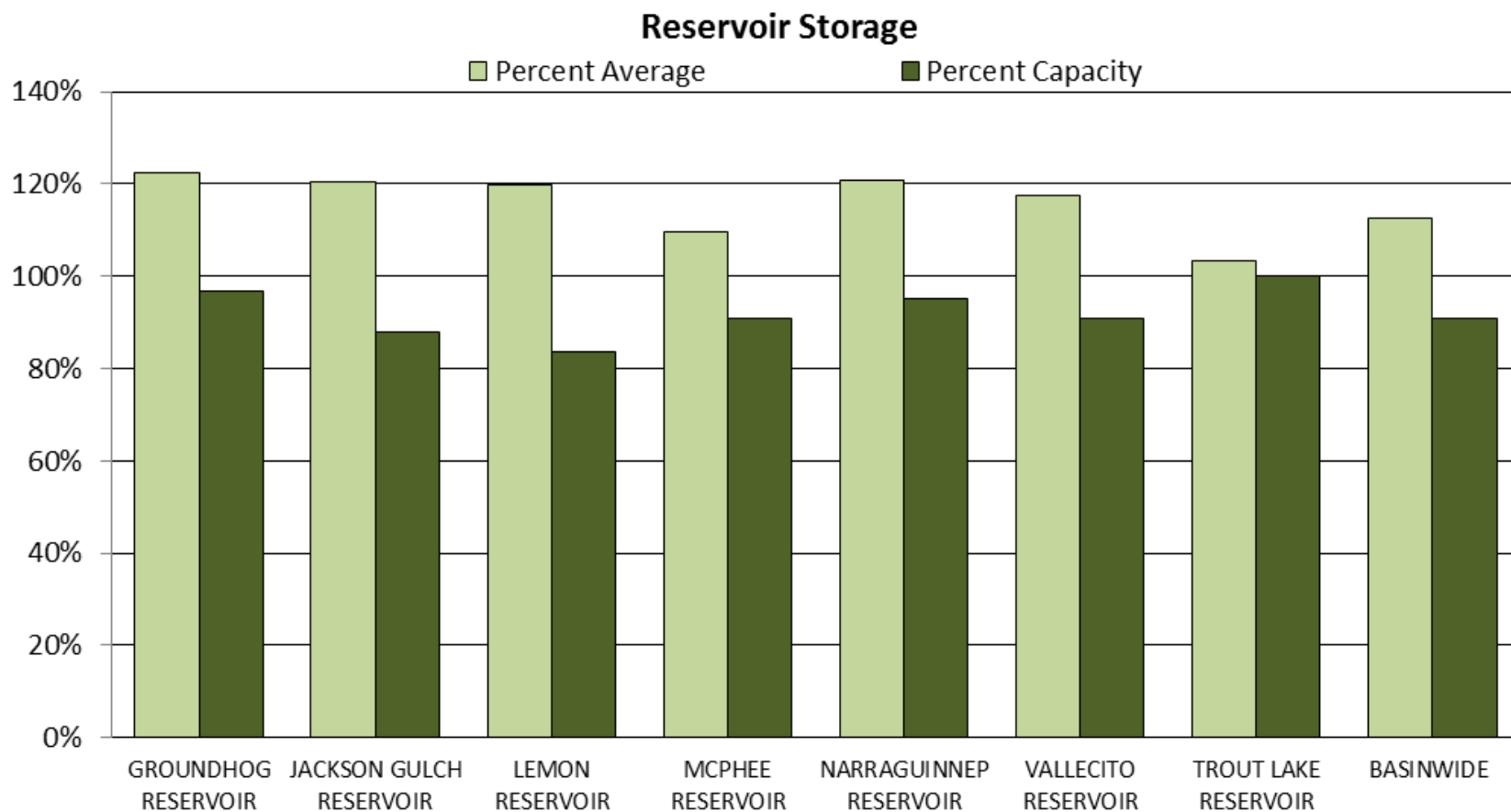


**San Juan R Nr Carracas (09346400) Colorado STREAMFLOW Site - 6090 ftR
to Sep 2017**



**San Miguel R Nr Placerville (09172500) Colorado STREAMFLOW Site - 7030 ftR
2016 to Sep 2017**

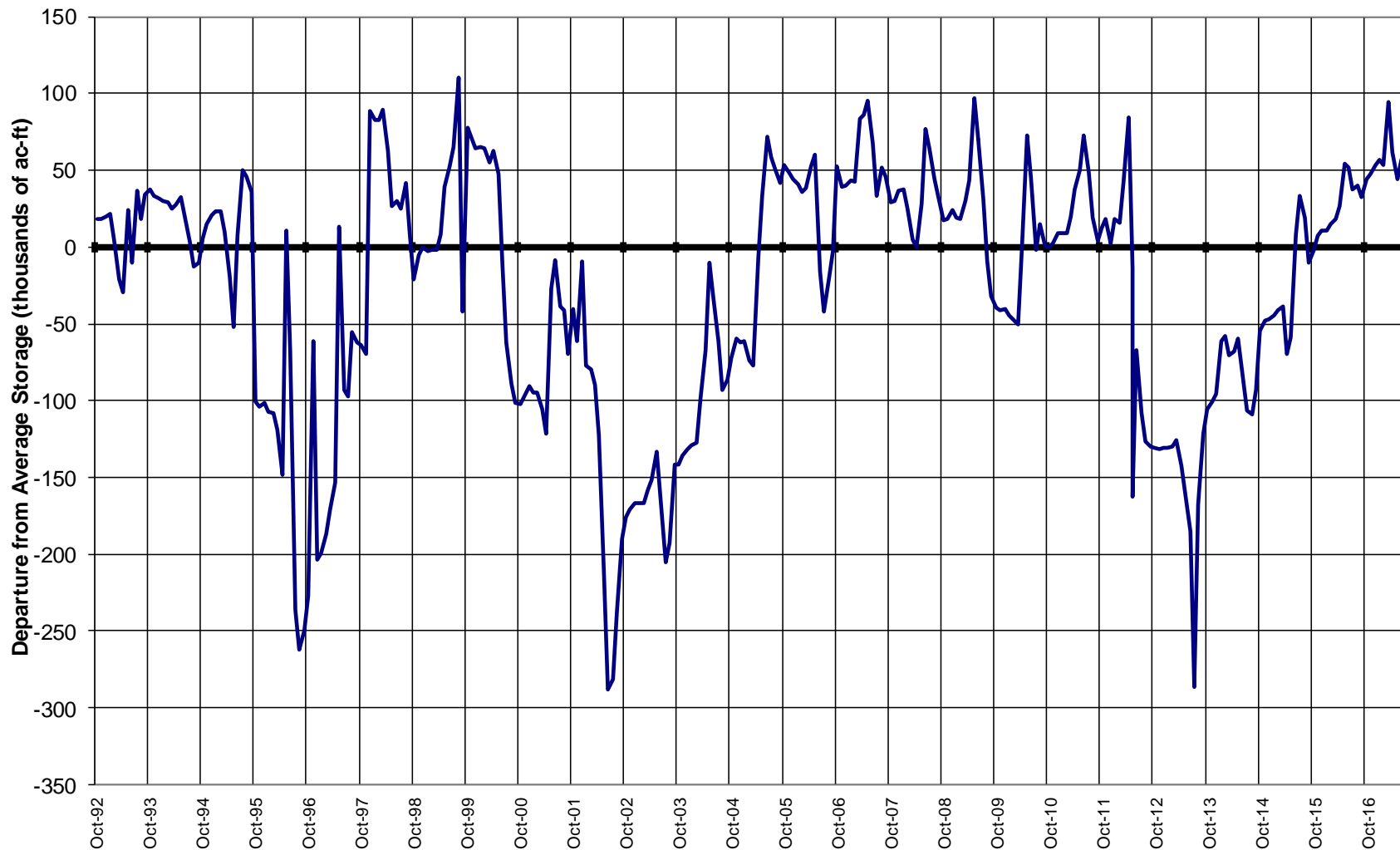






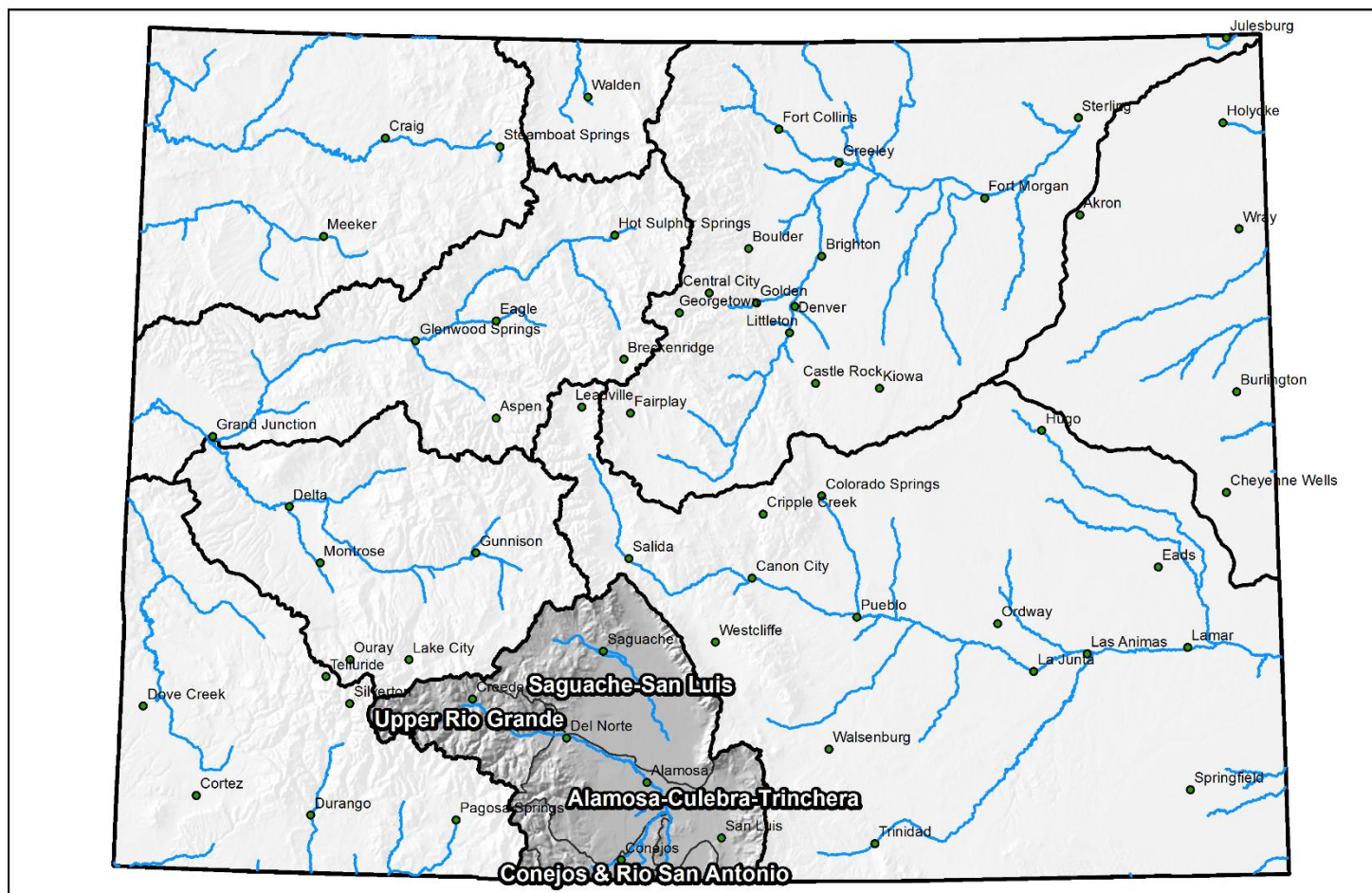
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

Reservoir Storage
Departure from Average



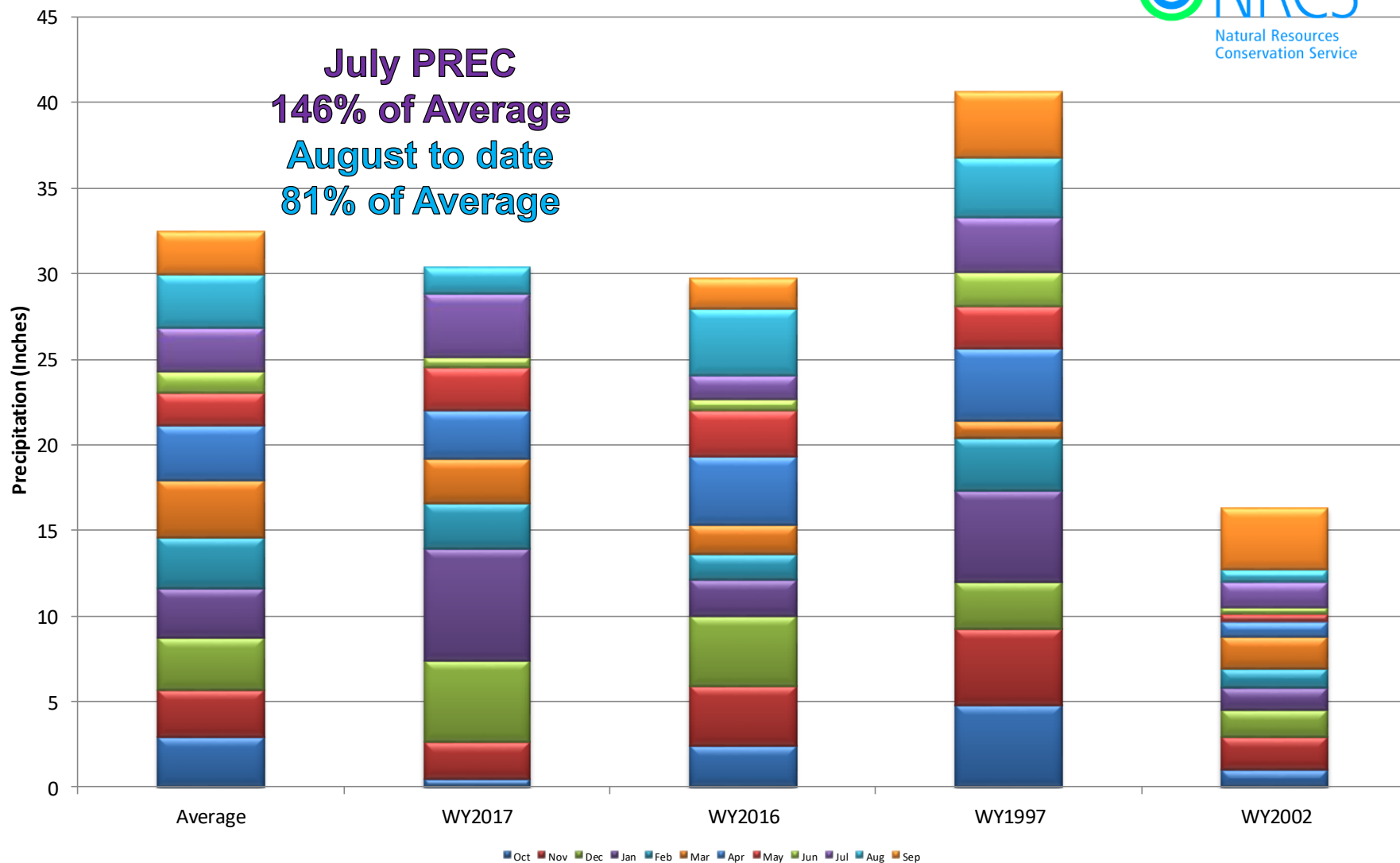
Major Basin Summary

Upper Rio Grande River Basin



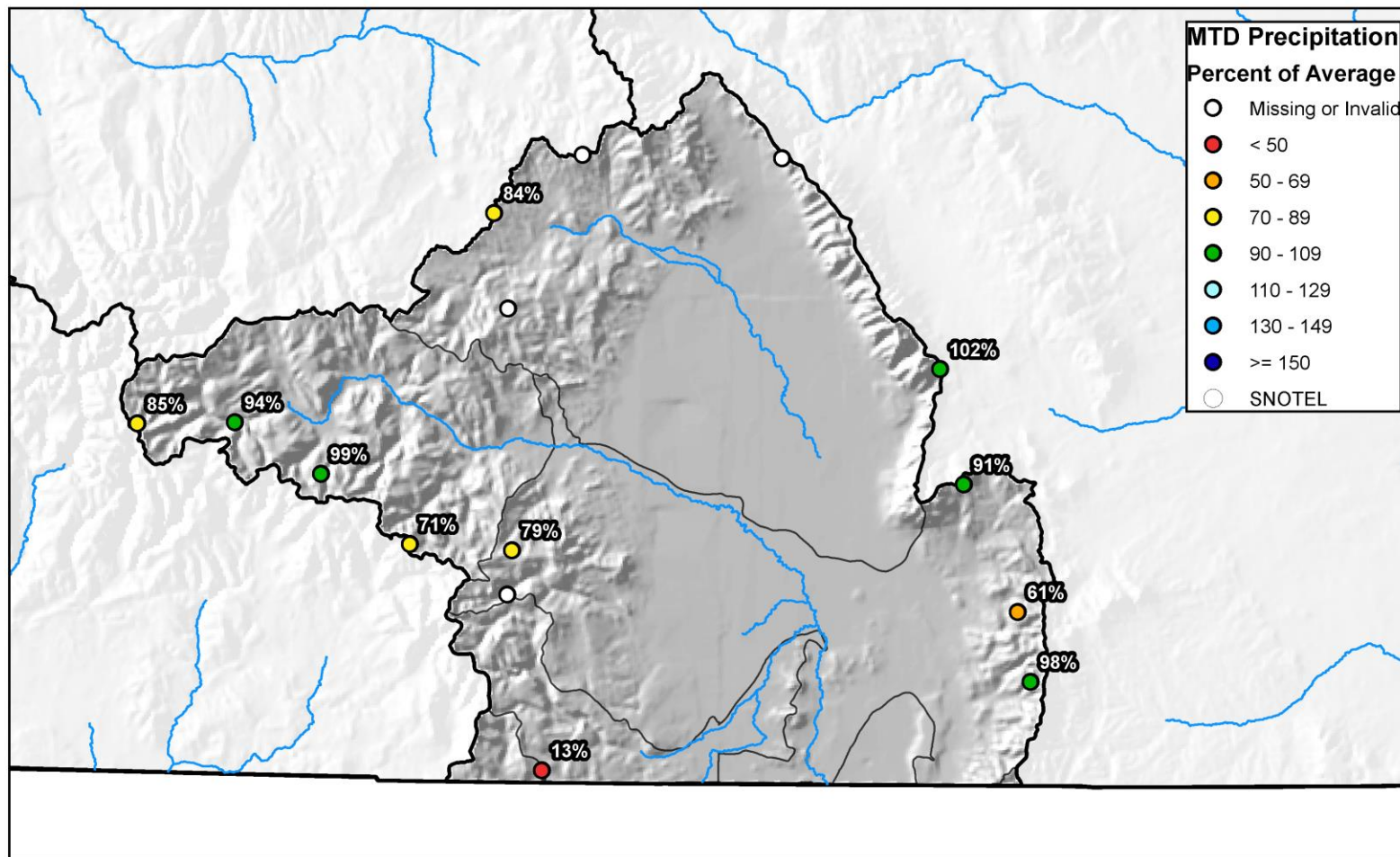
Upper Rio Grande Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2017



Upper Rio Grande River Basin Month to Date Precipitation Summary

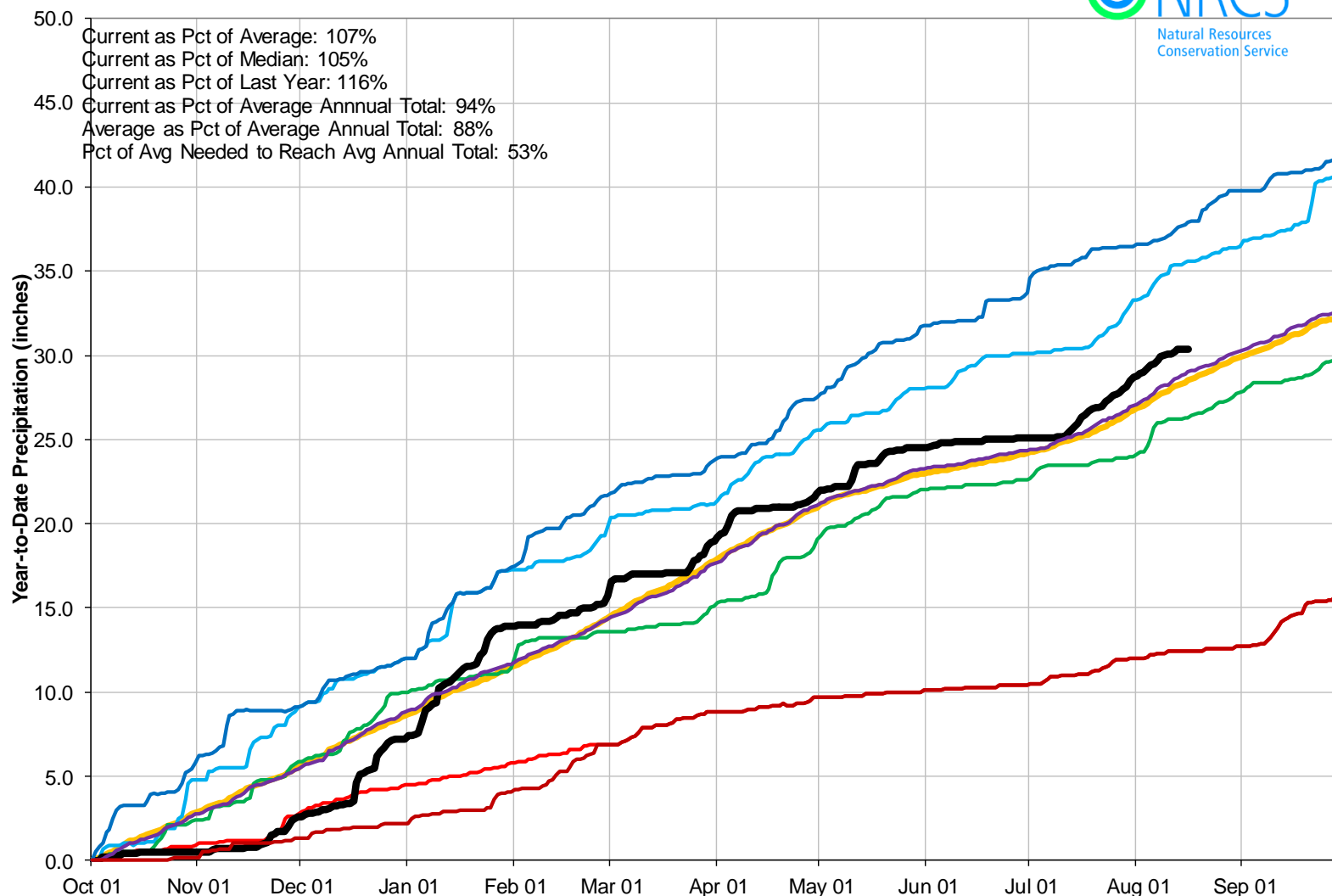
Current as of Aug 16, 2017



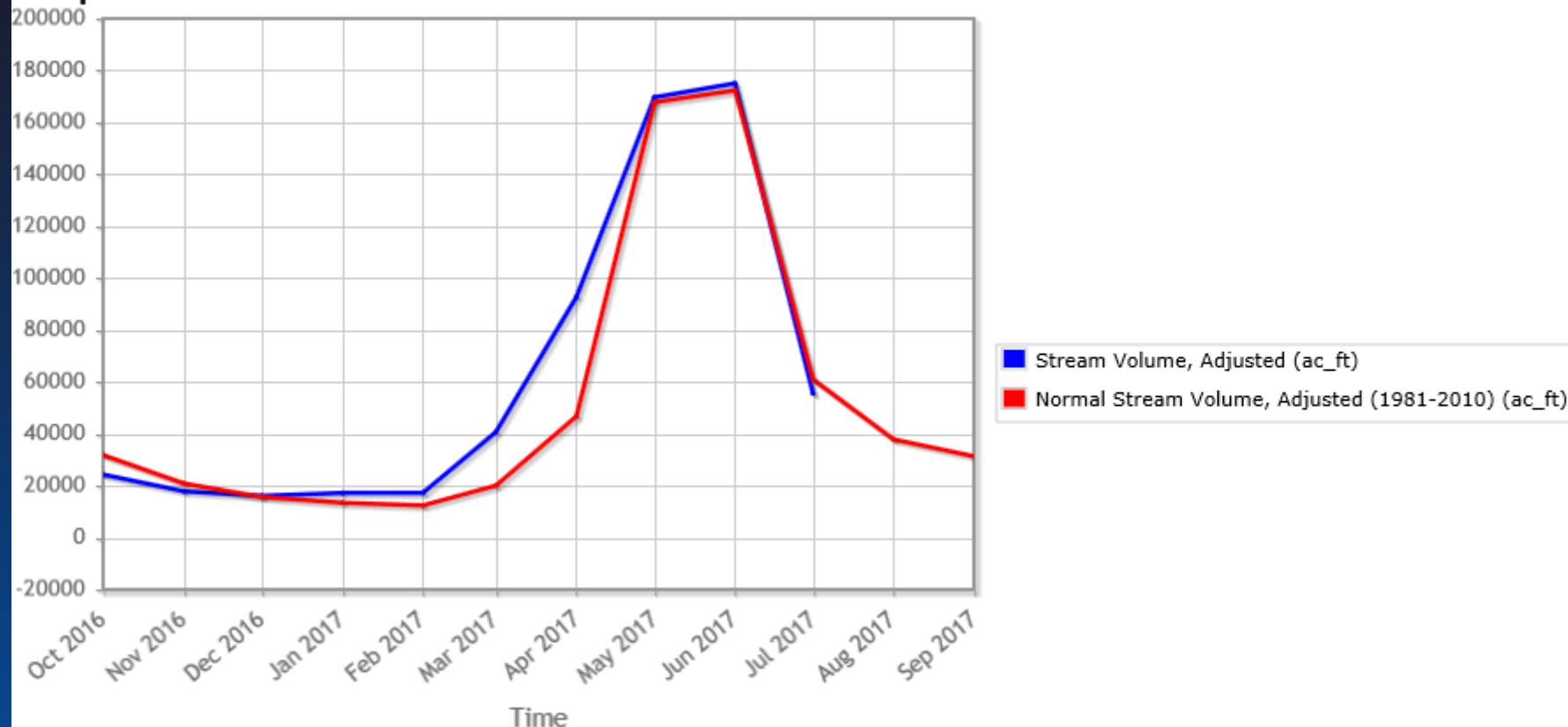


Upper Rio Grande Basin High/Low Year-to-Date Precipitation Summary

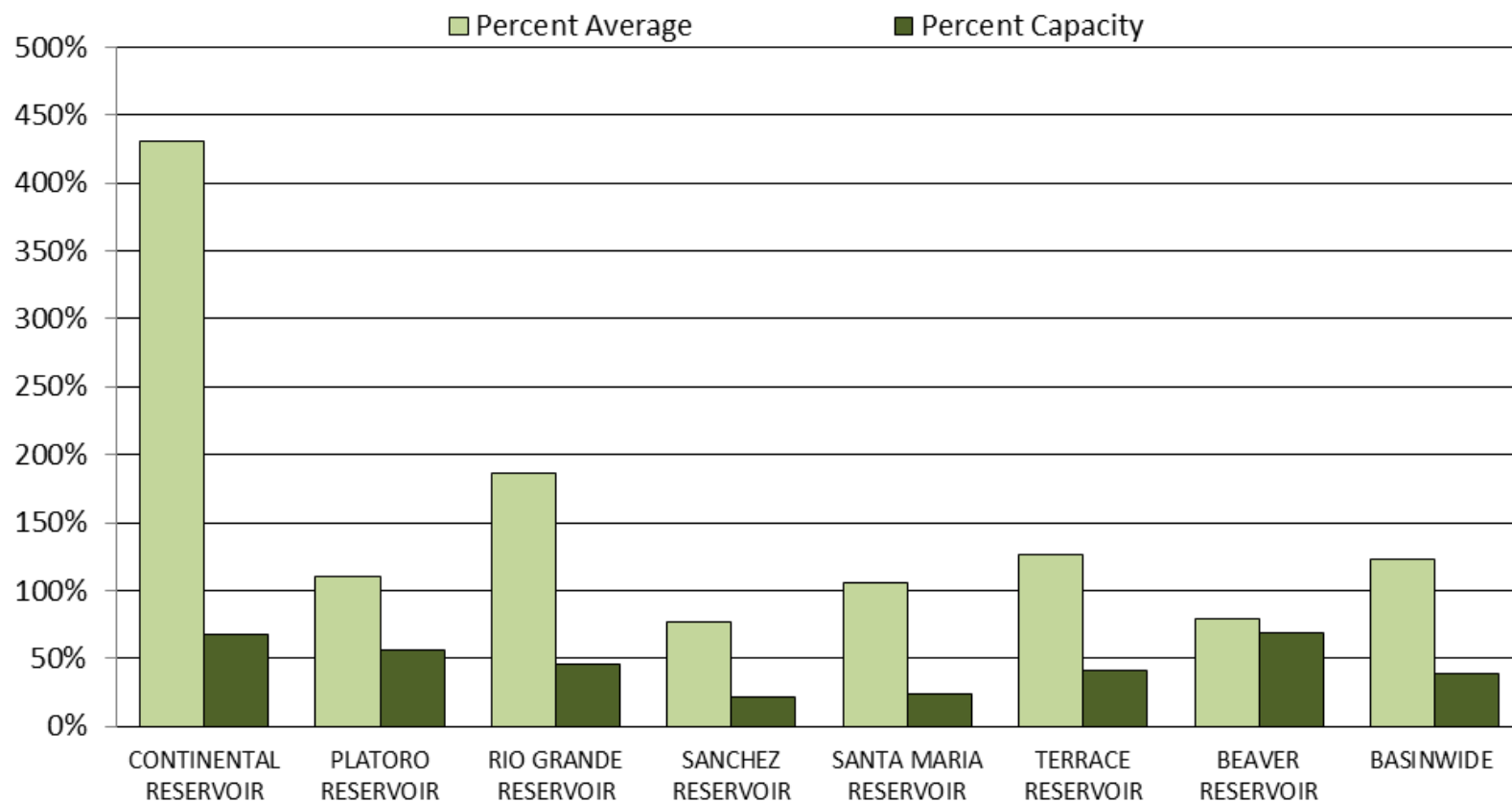
Based on Provisional SNOTEL data as of Aug 16, 2017



Rio Grande Nr Del Norte (08220000) Colorado STREAMFLOW Site - 7980 ft Reporting Frequency: Monthly; Date Range: Oct 2016 to Sep 2017

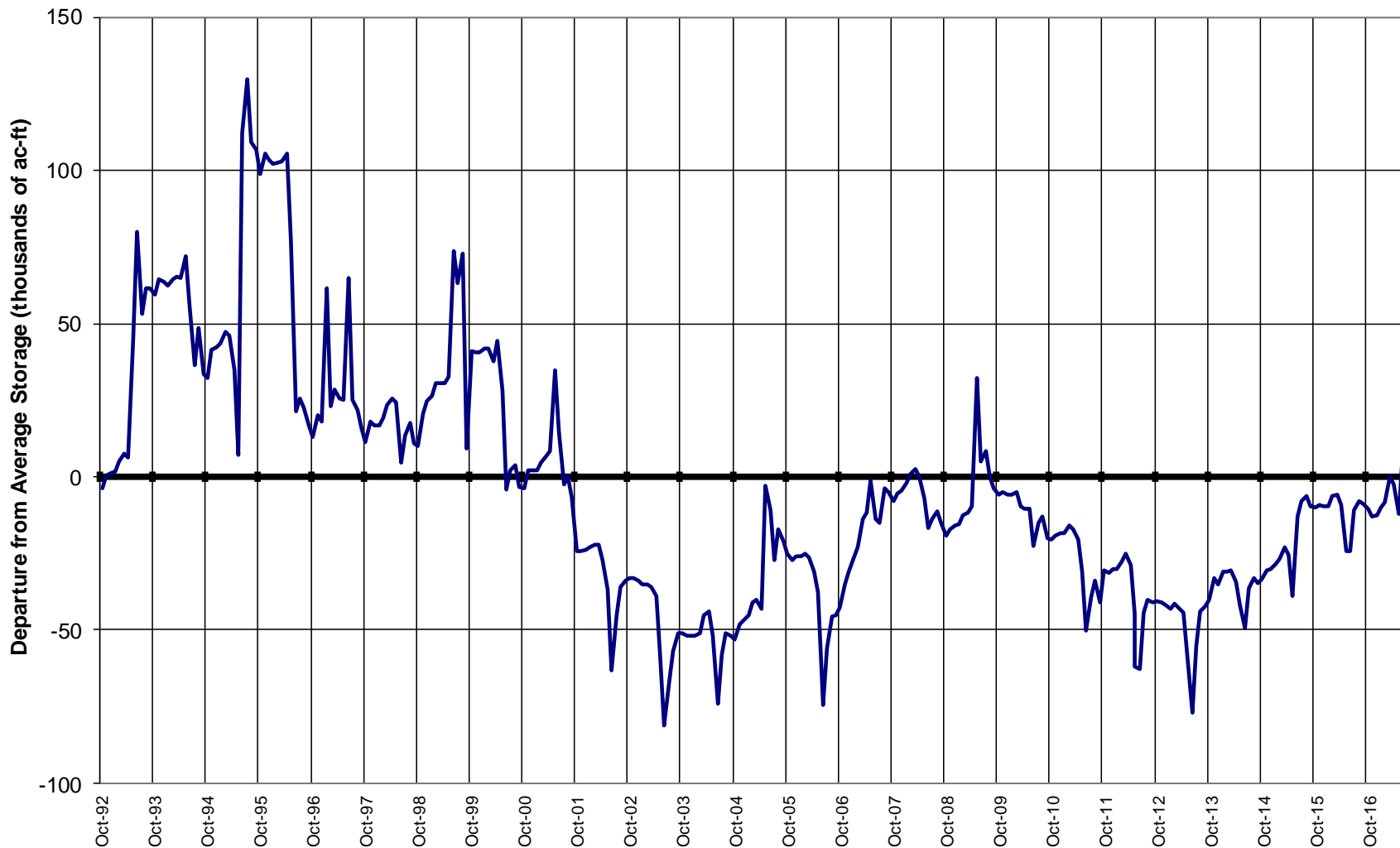


Reservoir Storage



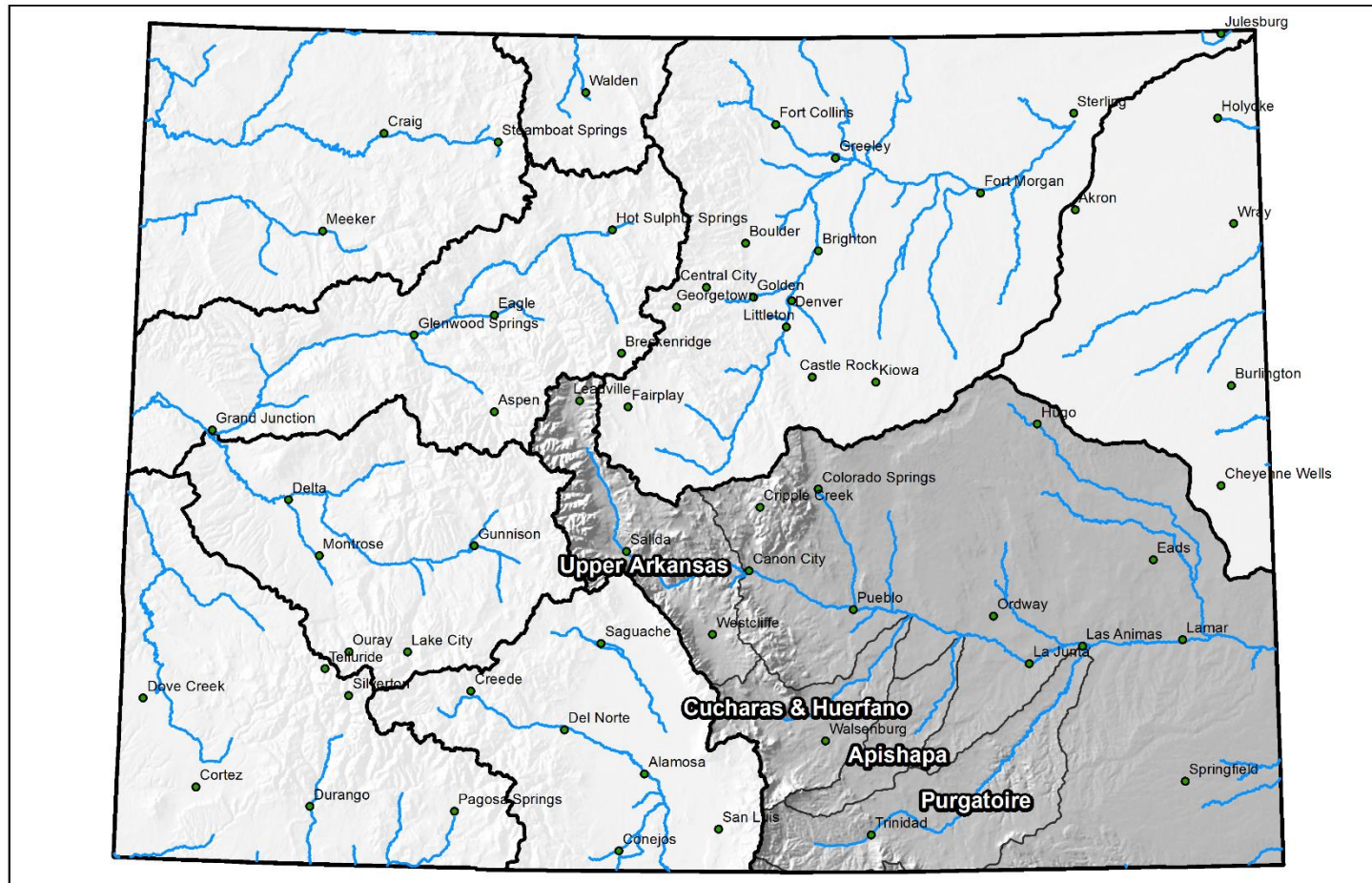


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



Major Basin Summary

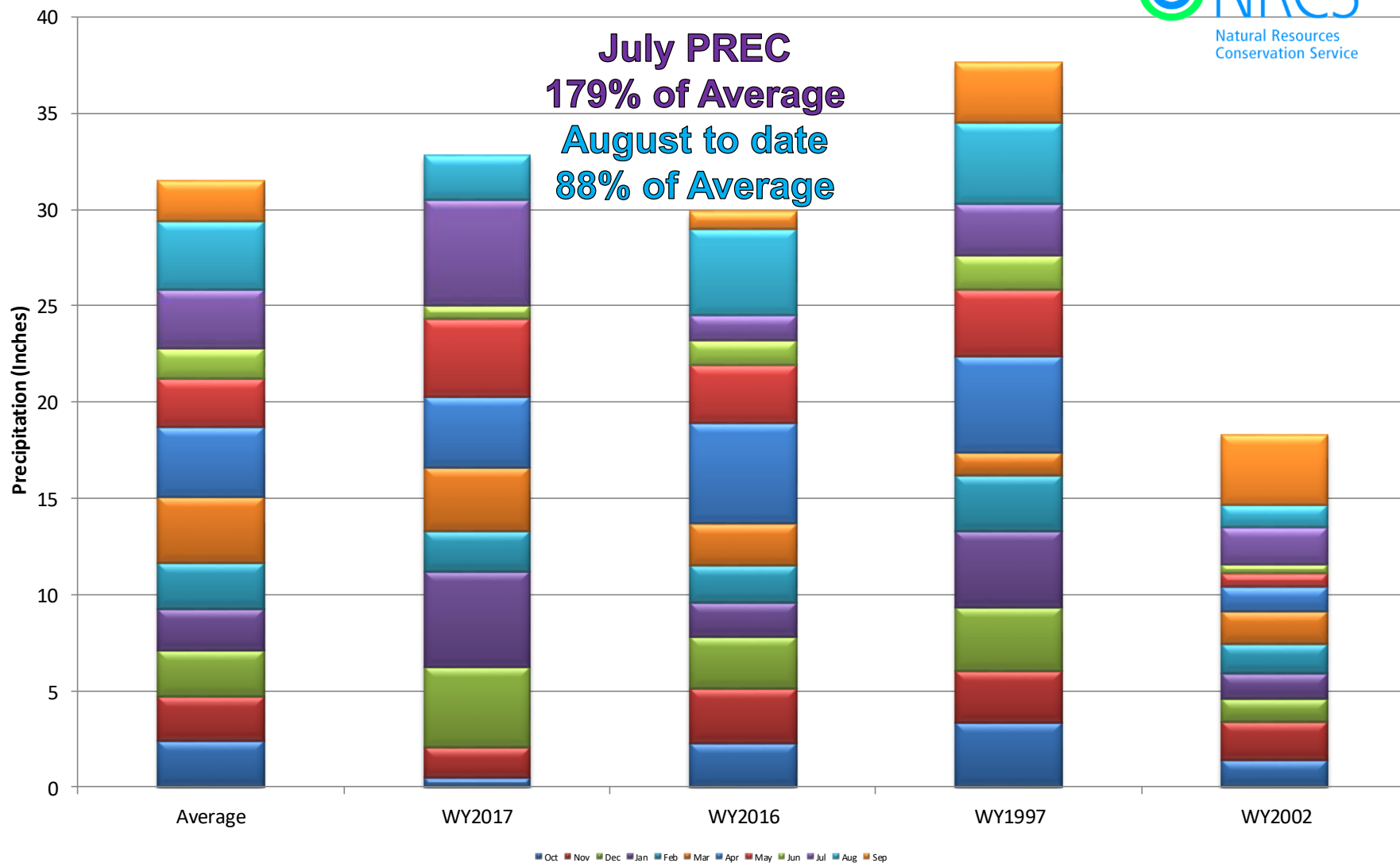
Arkansas River Basin



0 25 50 100 150 200 Miles

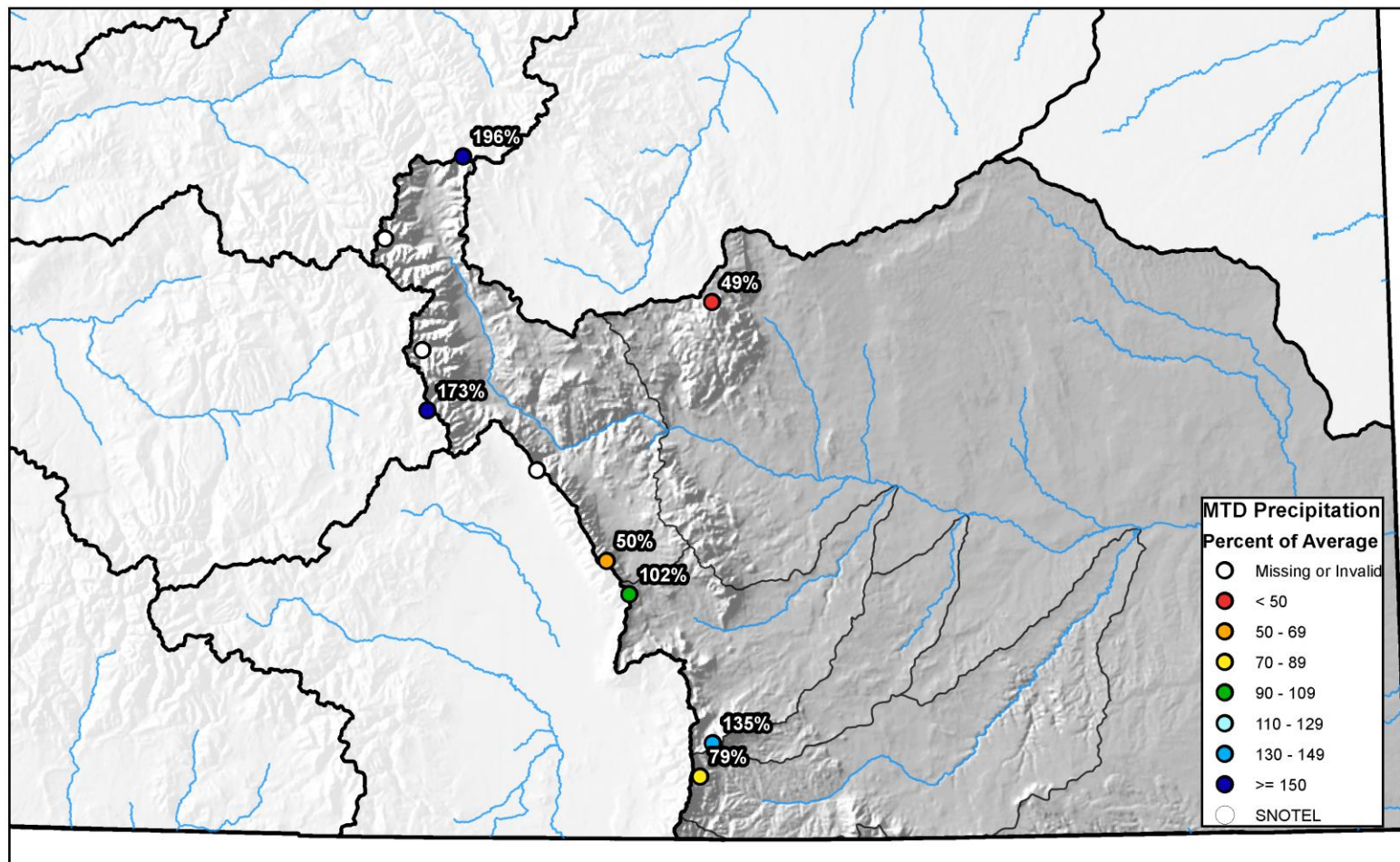
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2017



Arkansas River Basin Month to Date Precipitation Summary

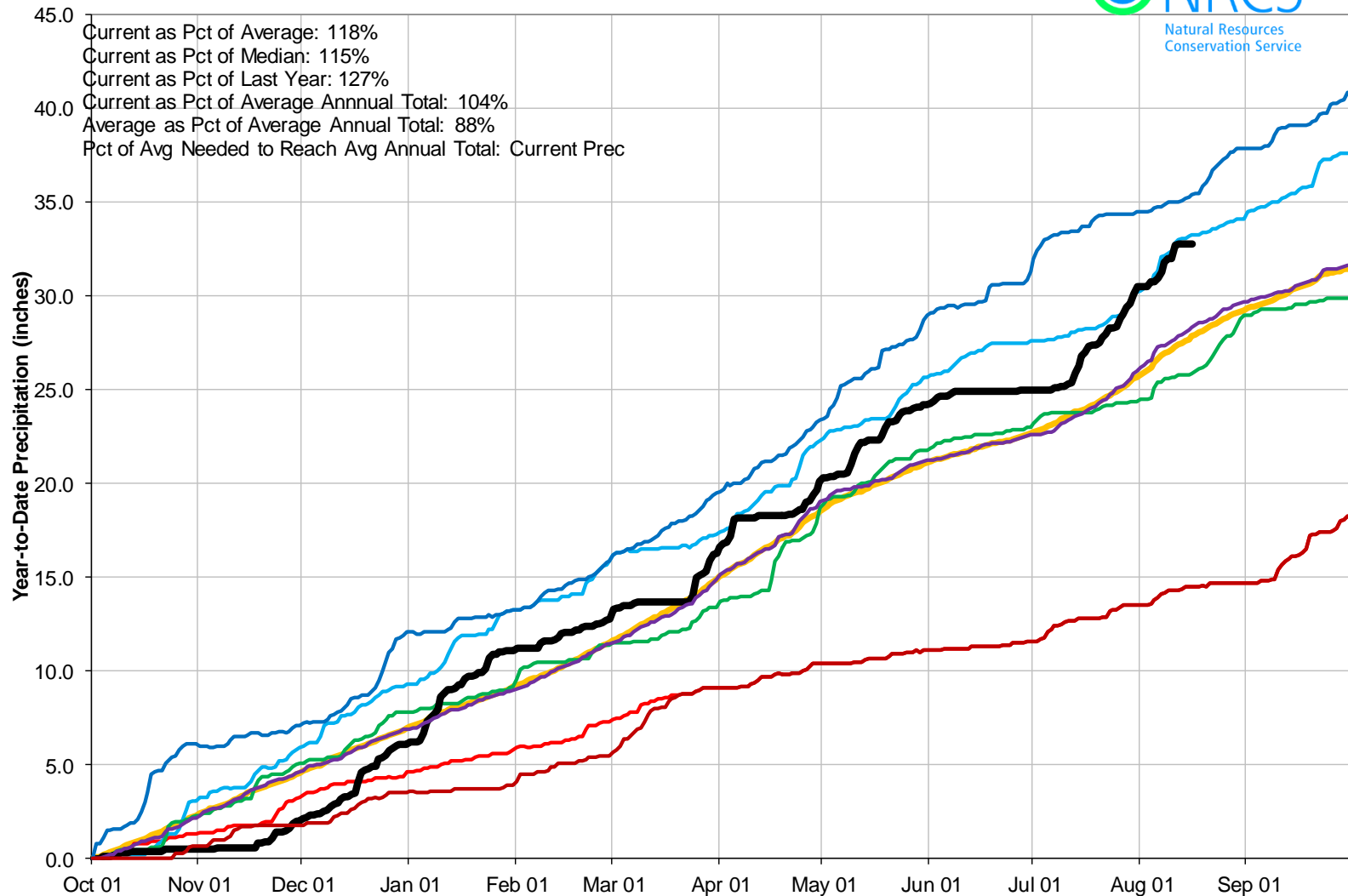
Current as of Aug 16, 2017



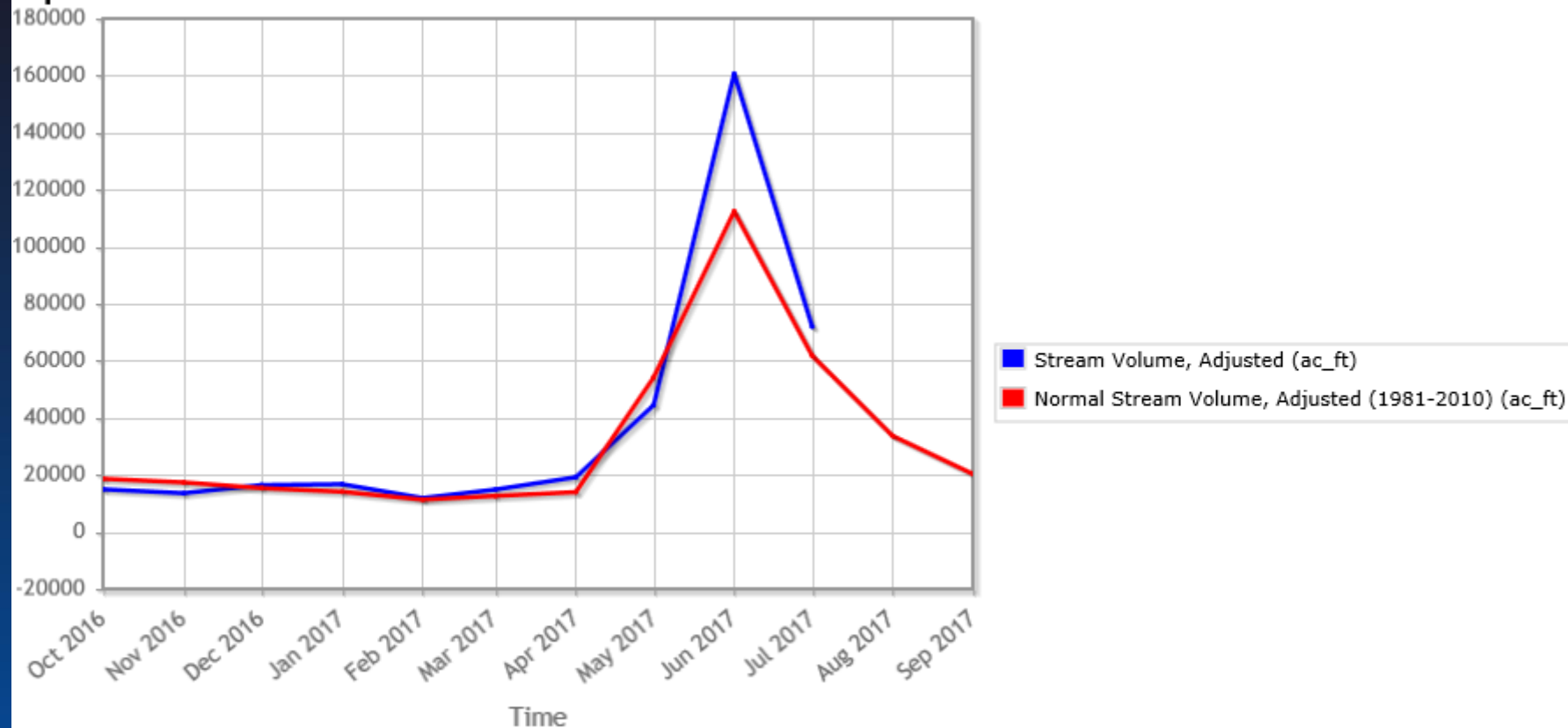


Arkansas River Basin High/Low Year-to-Date Precipitation Summary

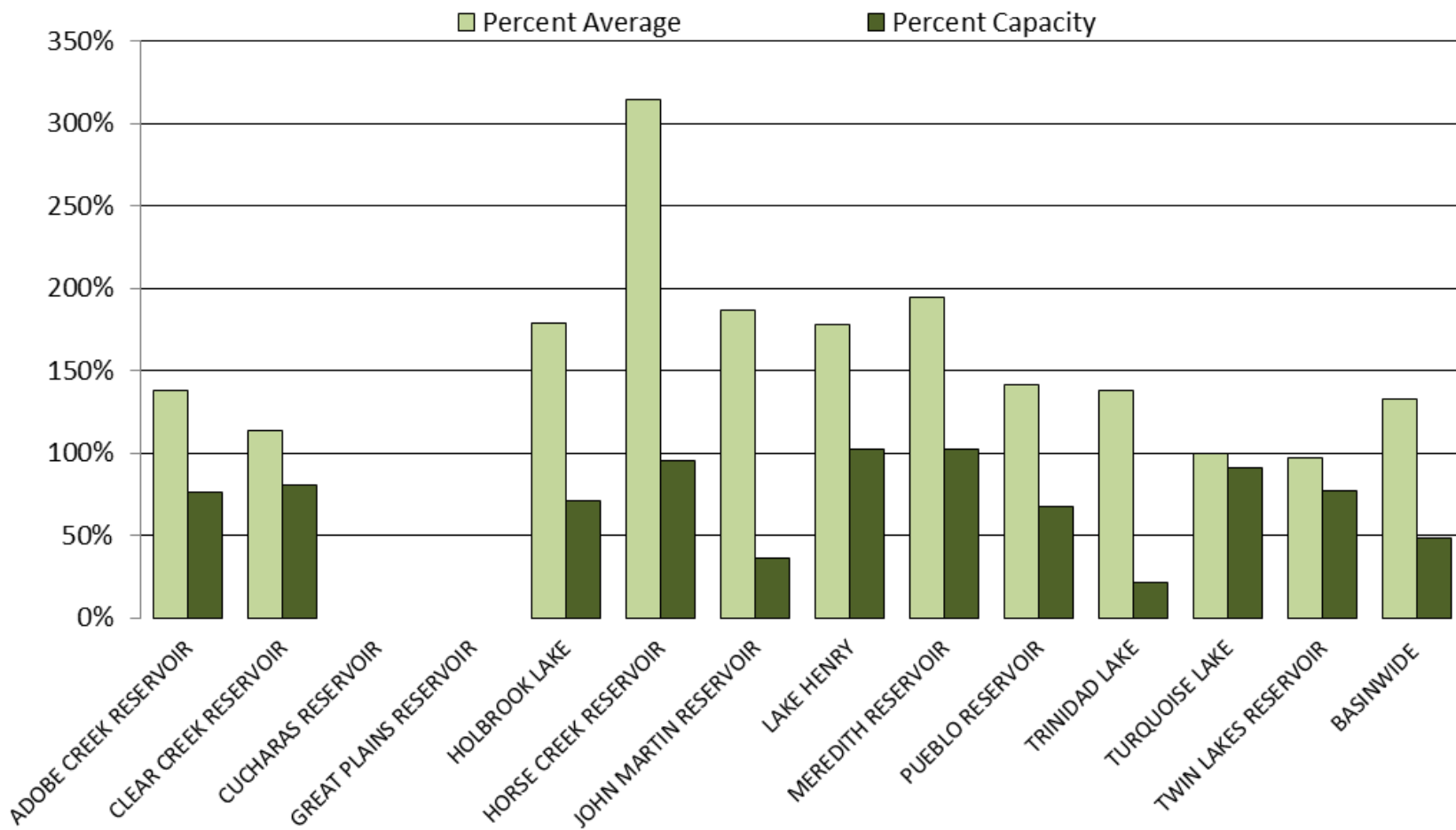
Based on Provisional SNOTEL data as of Aug 16, 2017



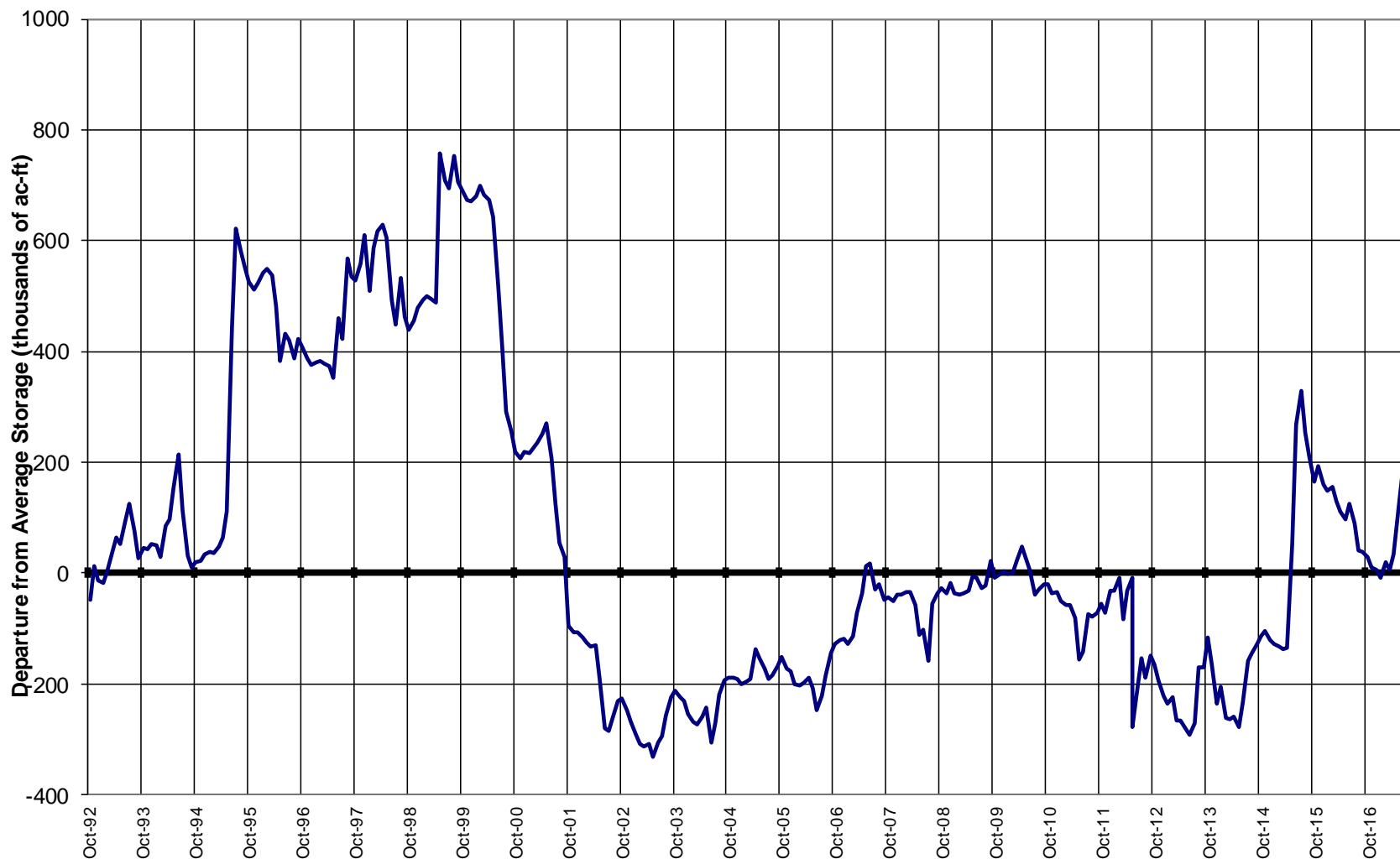
Arkansas R At Salida (07091500) Colorado STREAMFLOW Site - 7050 ft Reporting Frequency: Monthly; Date Range: Oct 2016 to Sep 2017



Reservoir Storage

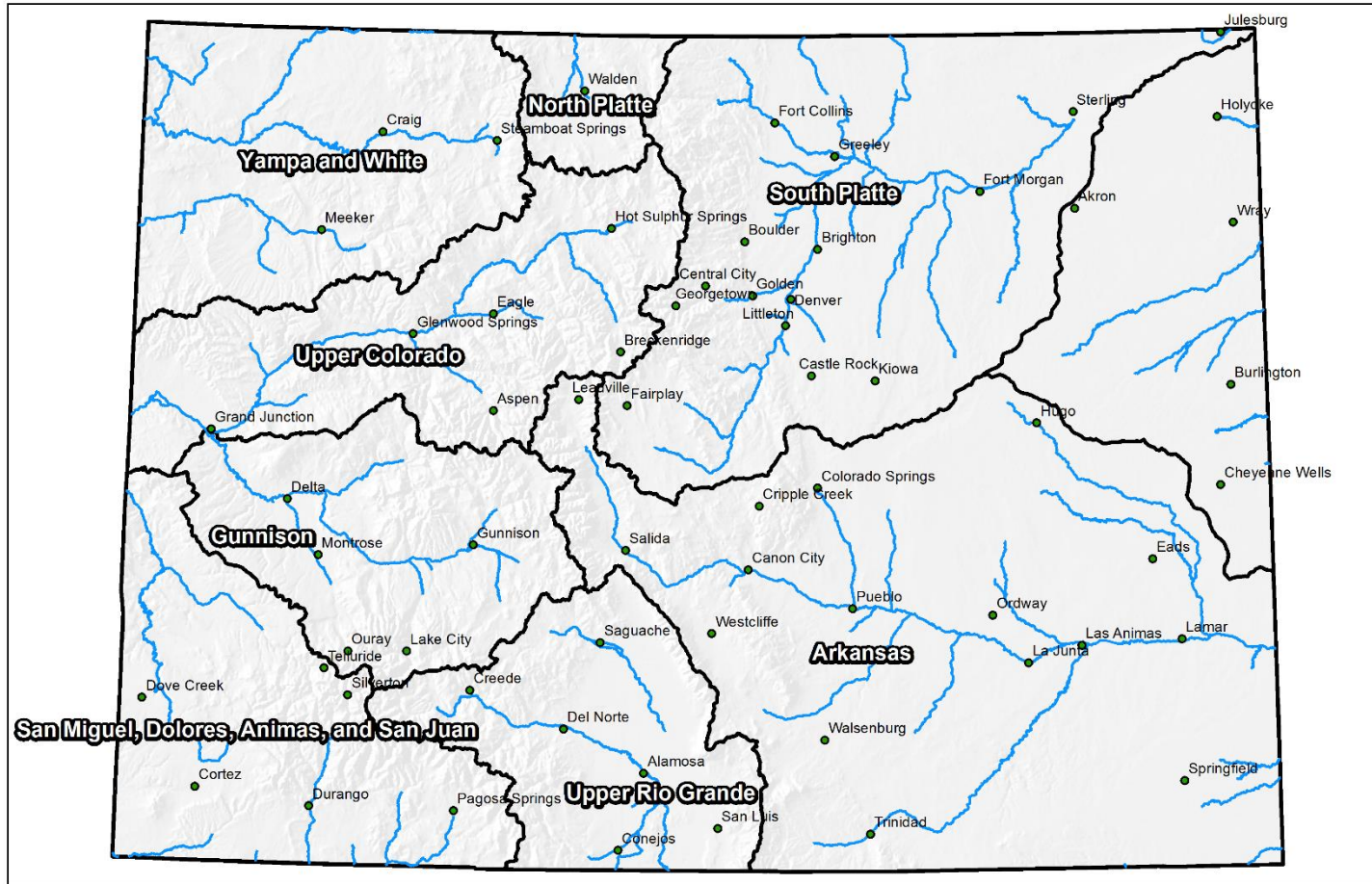


ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



Colorado Statewide Summary

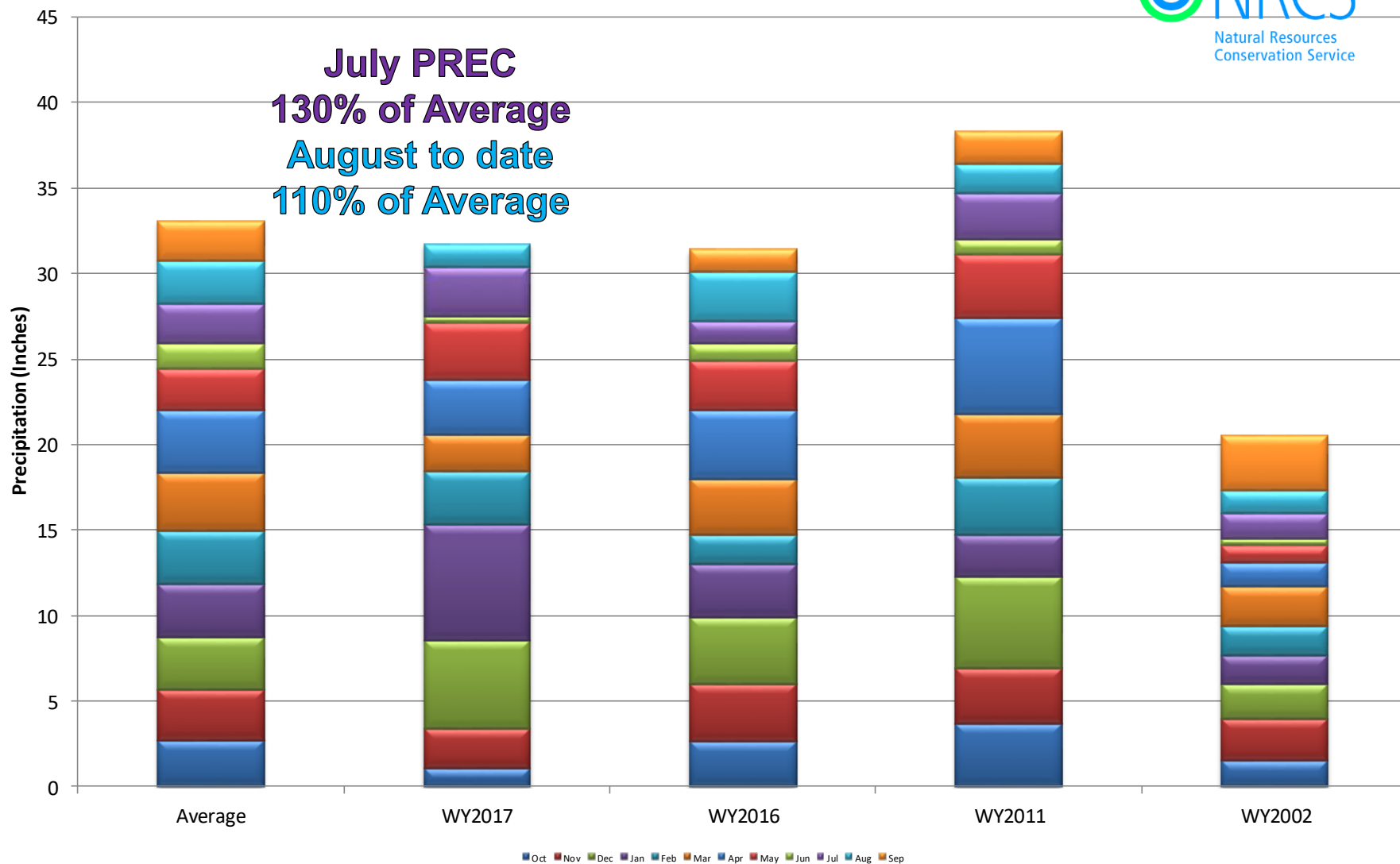
Colorado Major Basins



0 25 50 100 150 200 Miles

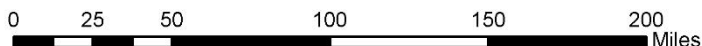
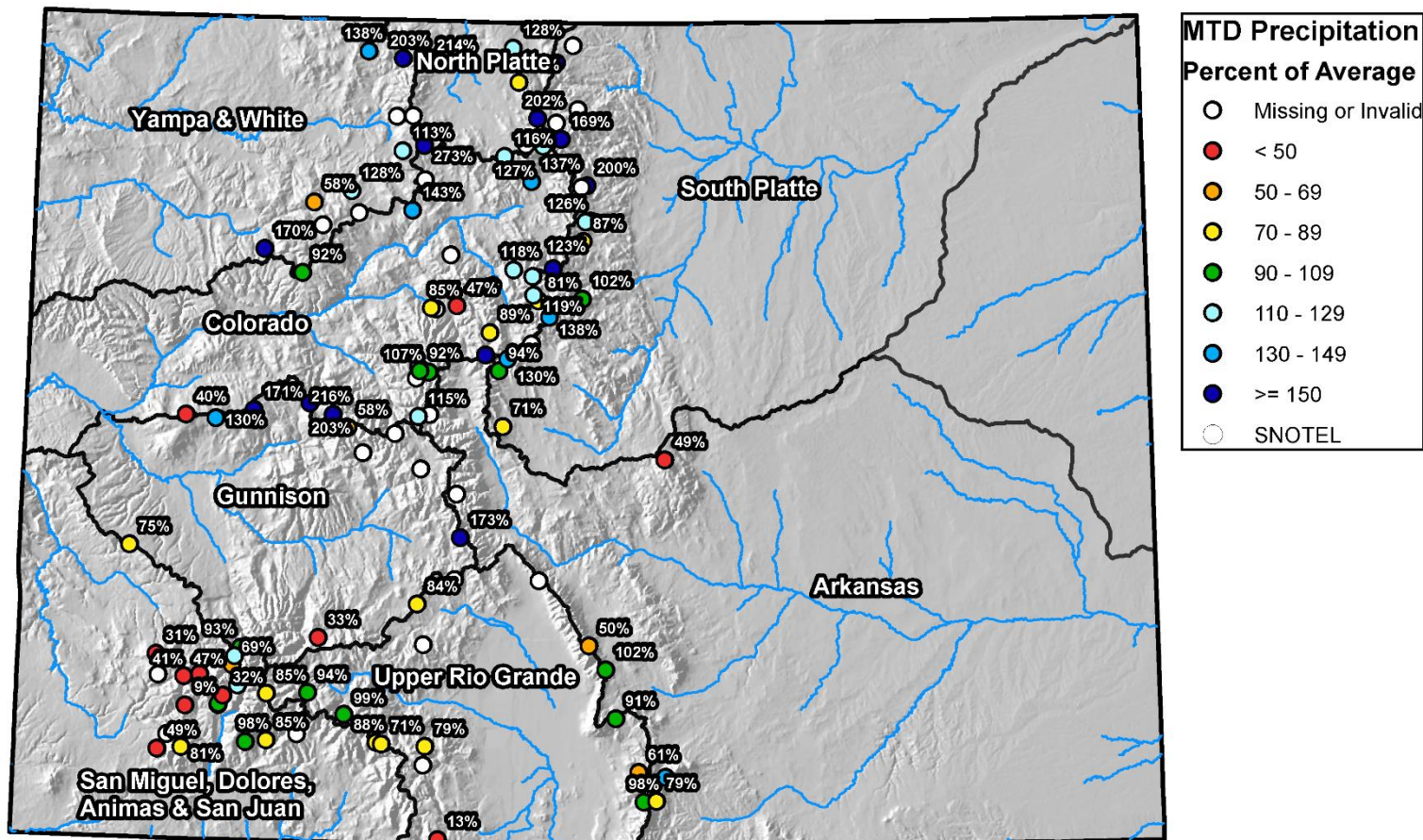
Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2017



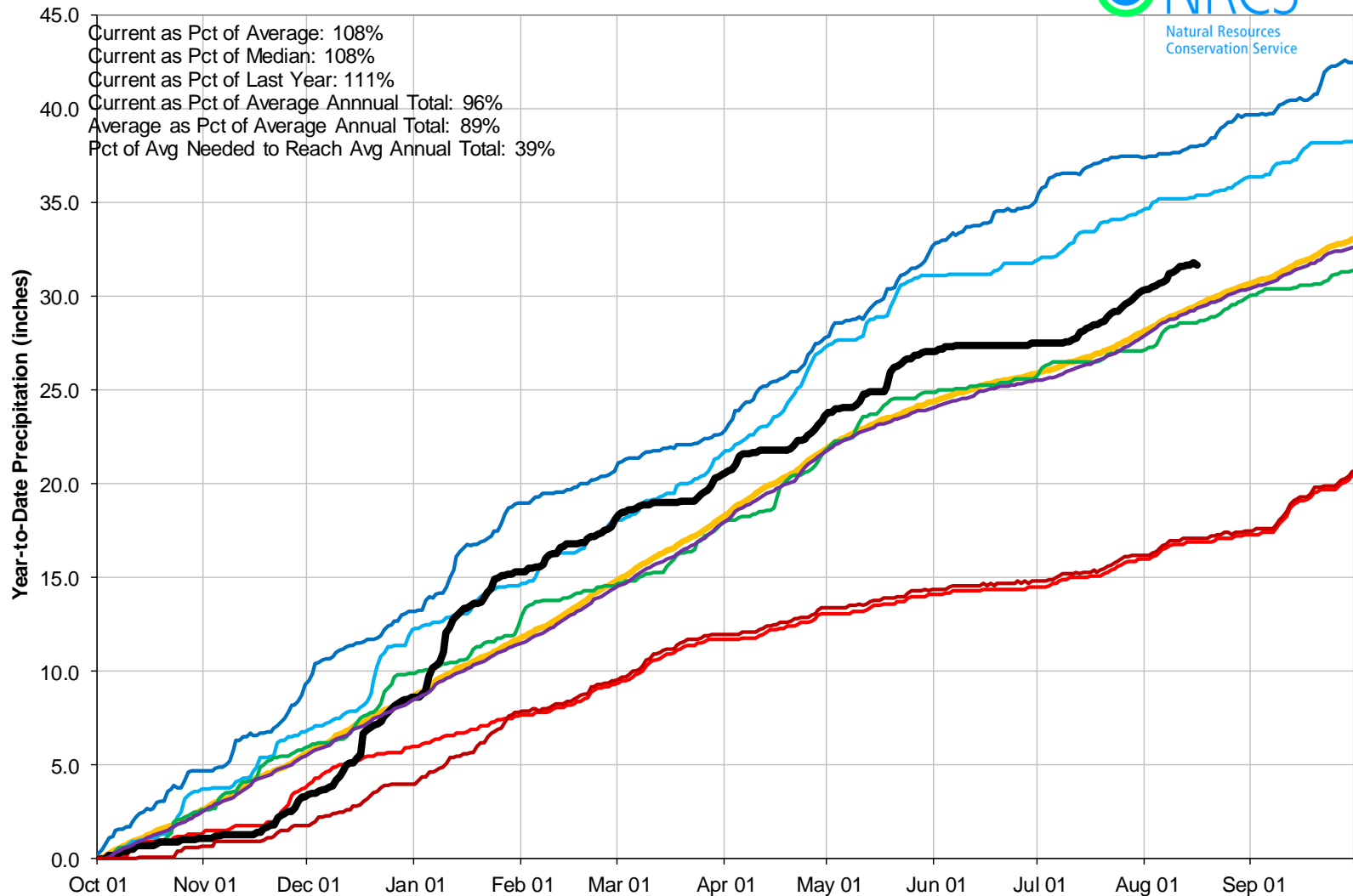
Colorado SNOTEL Month-to-Date Precipitation

Current as of Aug 16, 2017



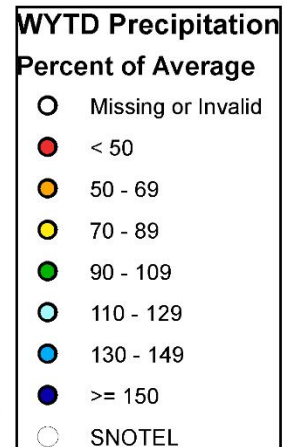
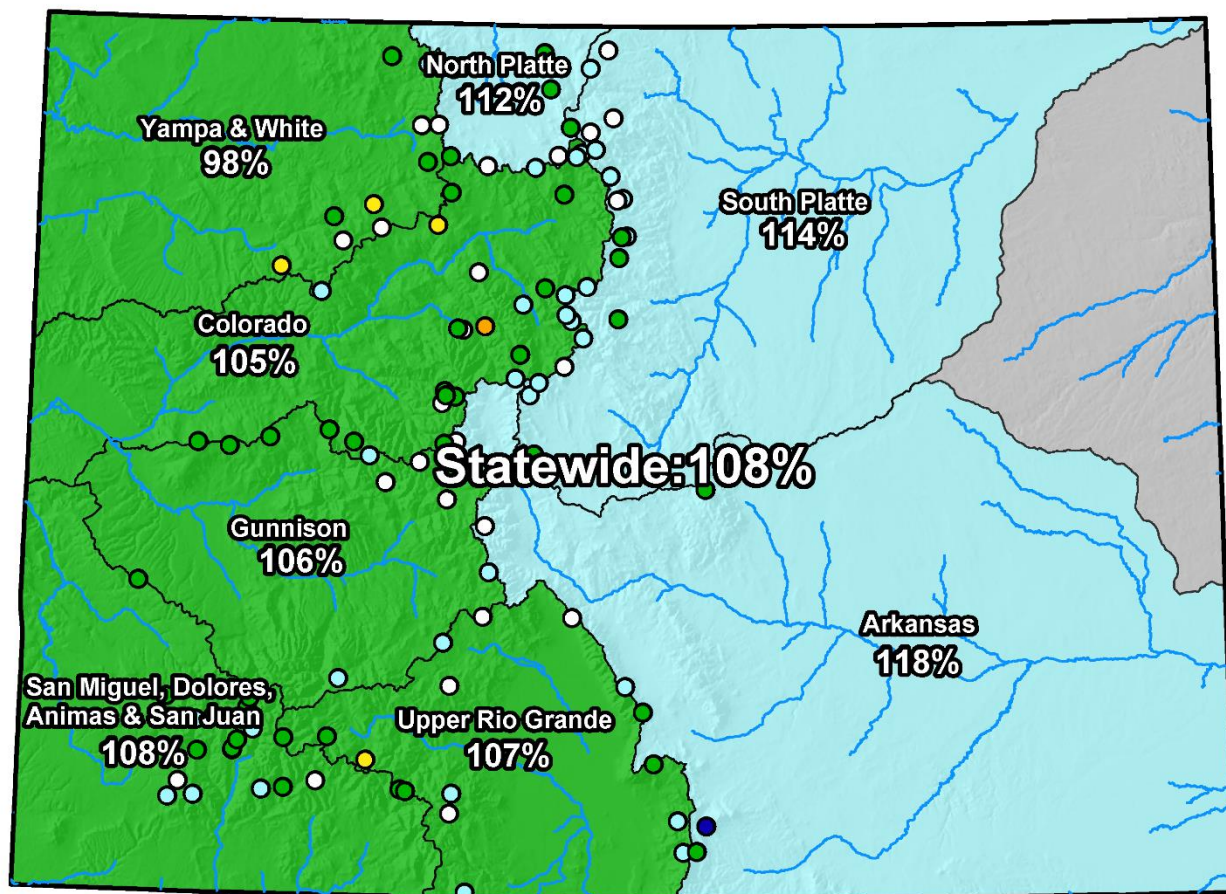
Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Aug 16, 2017



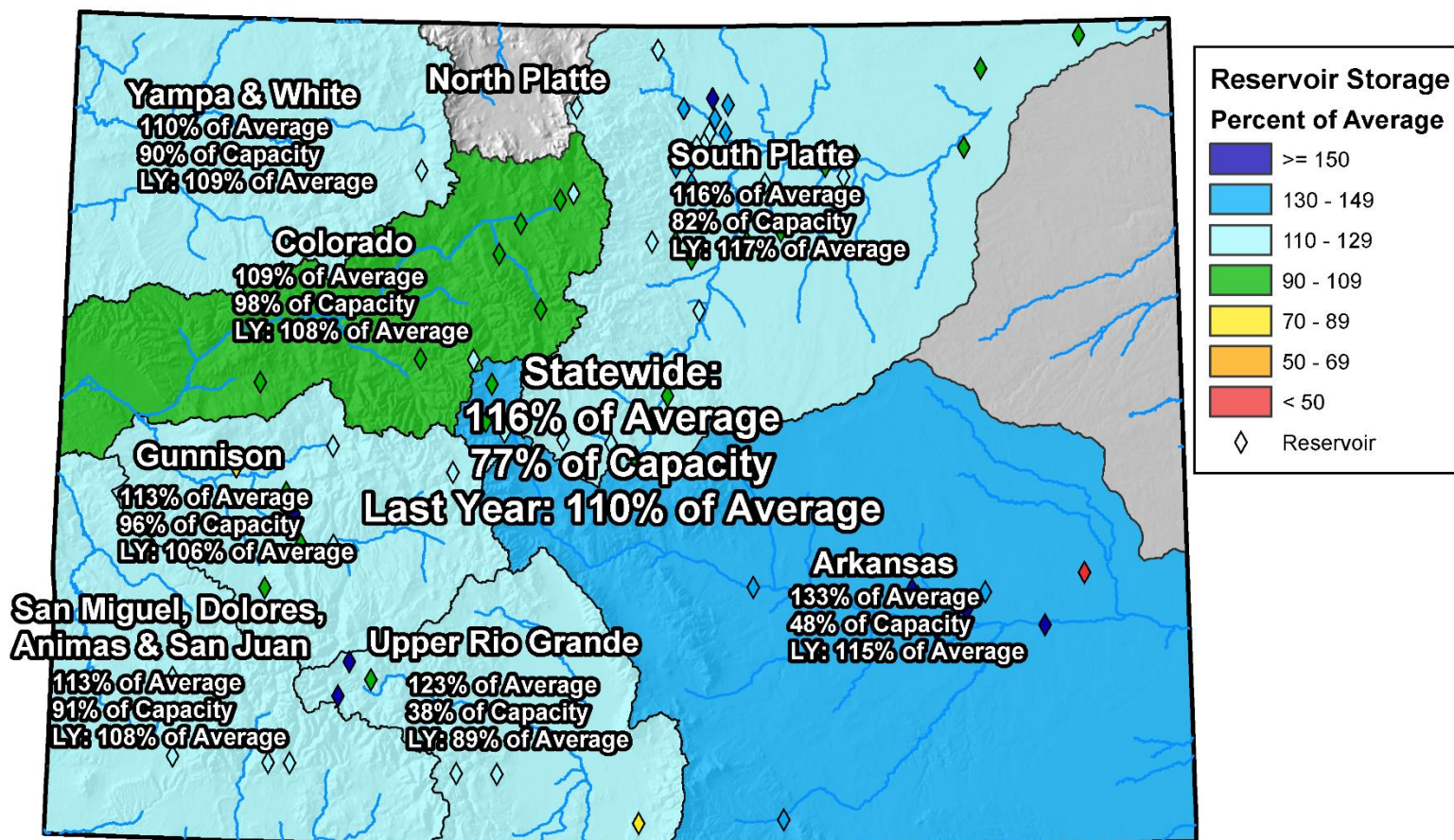
Colorado SNOTEL Water Year to Date Precipitation

Current as of Aug 16, 2017



Colorado Monthly Reservoir Storage Summary

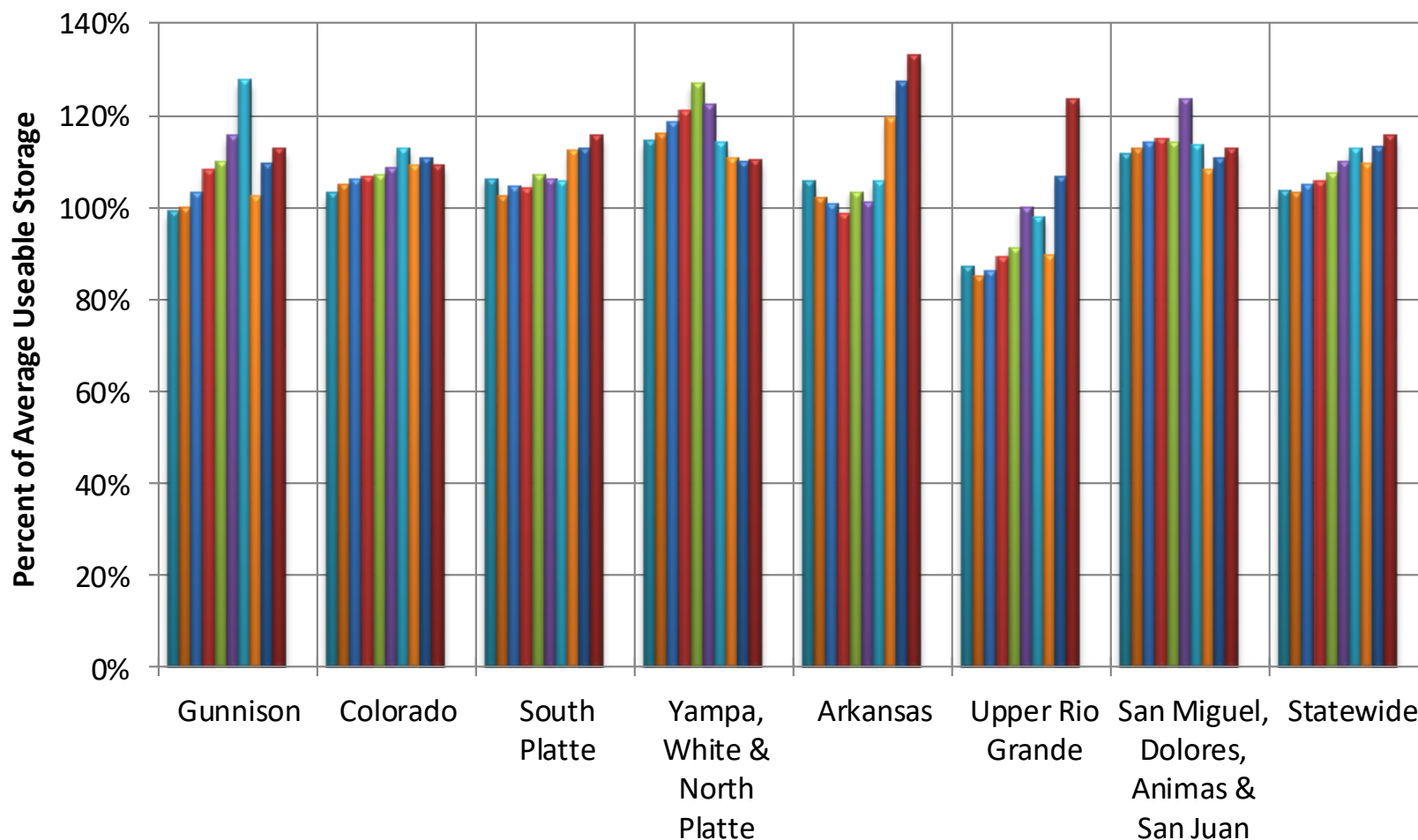
End of July 2017



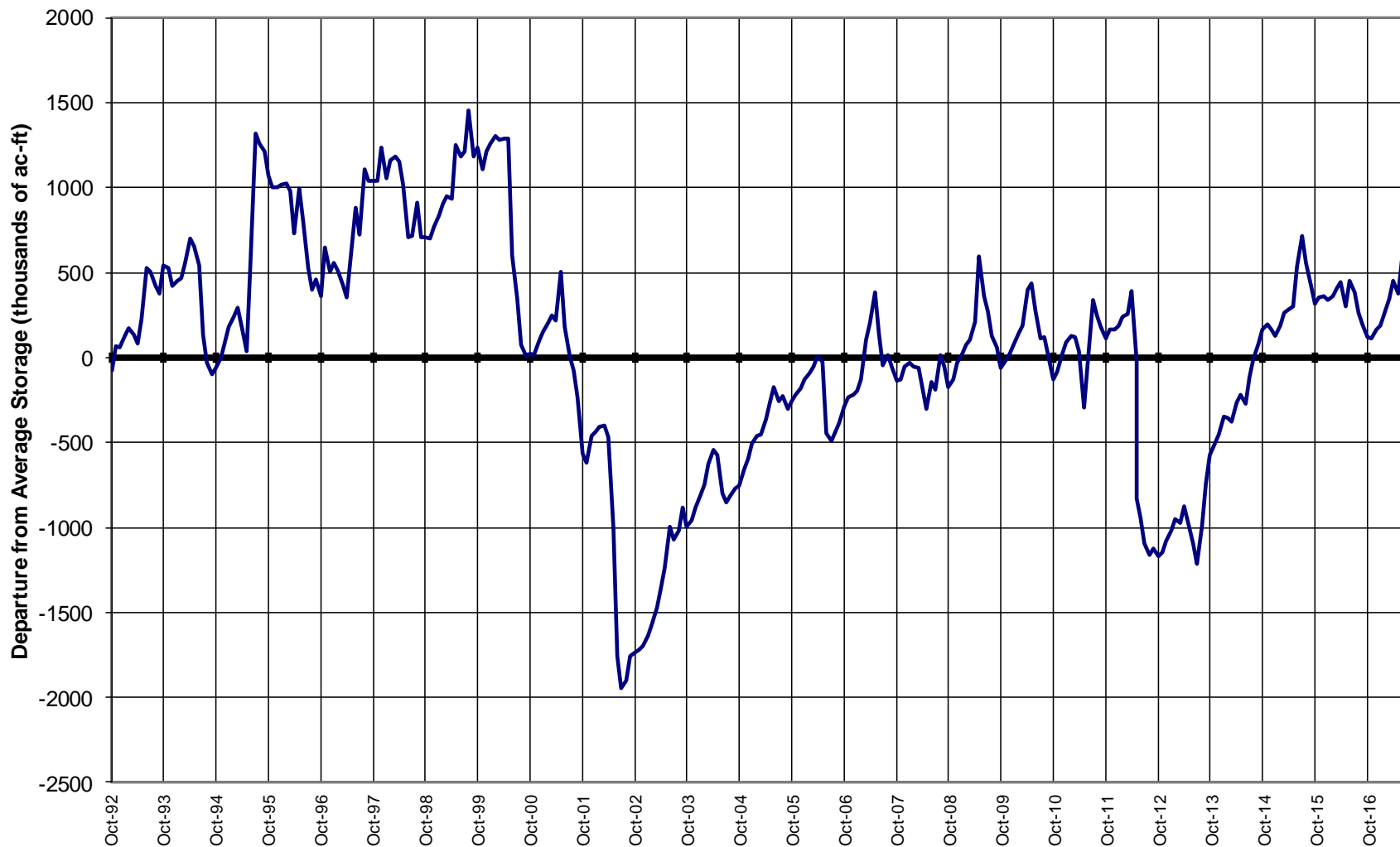
0 25 50 100 150 200 Miles

Colorado Reservoir Storage

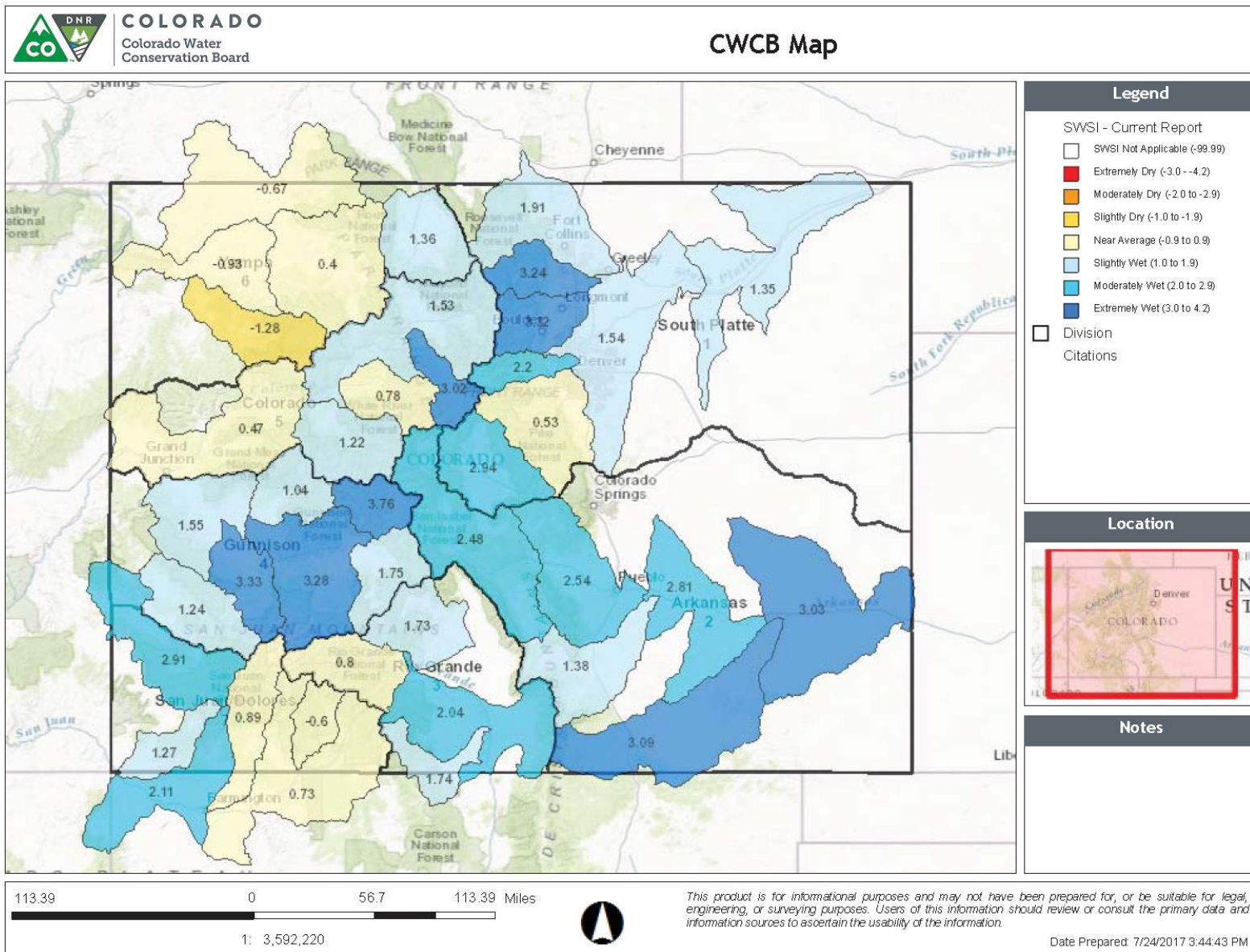
■ Oct-16 ■ Nov-16 ■ Dec-16 ■ Jan-17 ■ Feb-17 ■ Mar-17
 ■ Apr-17 ■ May-17 ■ Jun-17 ■ Jul-17 ■ Aug-17 ■ Sep-17



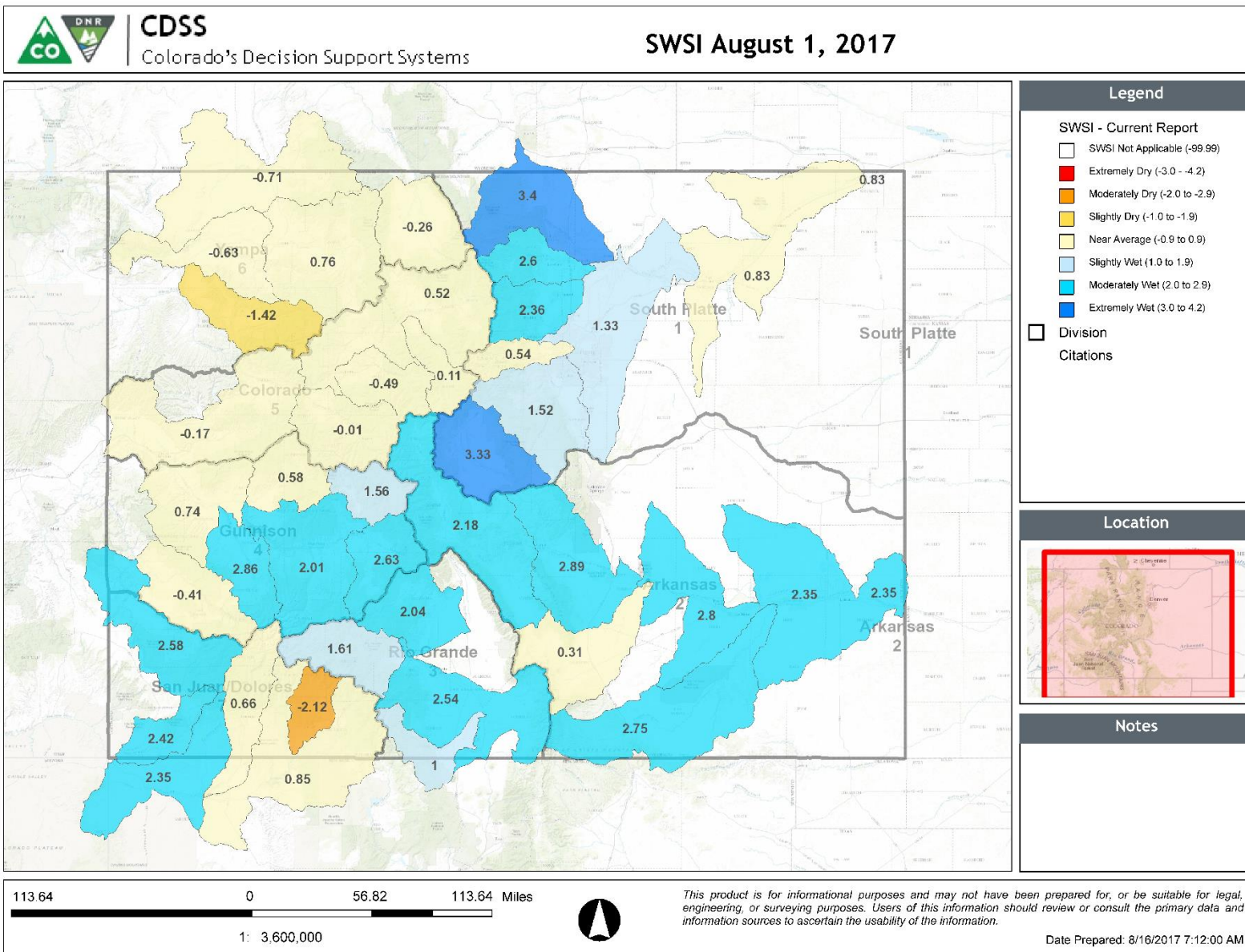
COLORADO STATEWIDE Reservoir Storage Departure from Average



July 1, 2017 SWSI



August 1, 2017 SWSI



Summary

- July precipitation continued consistently through the end of July and the first half of August for most of the state
- Water year precipitations remains at very near to above normal amounts across the state
- Statewide reservoir storage continued to rise, relative to normal, between July 1st and August 1st from 113 to 116% of average
- Formal analysis and streamflow forecast verification has yet to be completed but in general volumetric April – July streamflows seemed to be near to above normal across the state except for the Yampa and White rivers which were further below normal



United States Department of Agriculture

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NRCS Snow Survey and Water Supply Forecasting Program

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