



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

July 24th, 2018

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos

Hydrologist

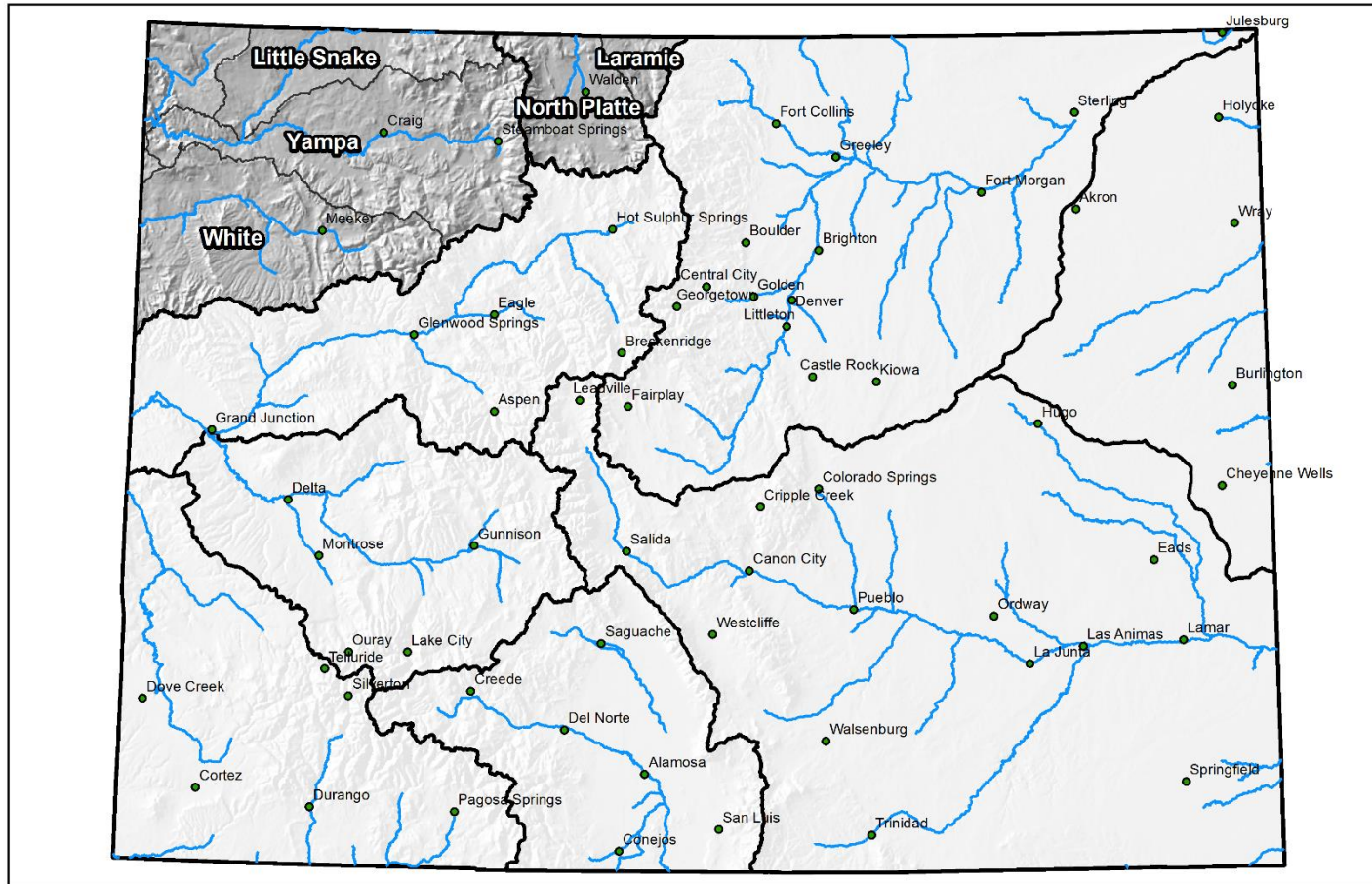
Snow Survey Supervisor

720-544-2852

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

Major Basin Summary

Yampa, White, and North Platte River Basins



0 25 50 100 150 200 Miles

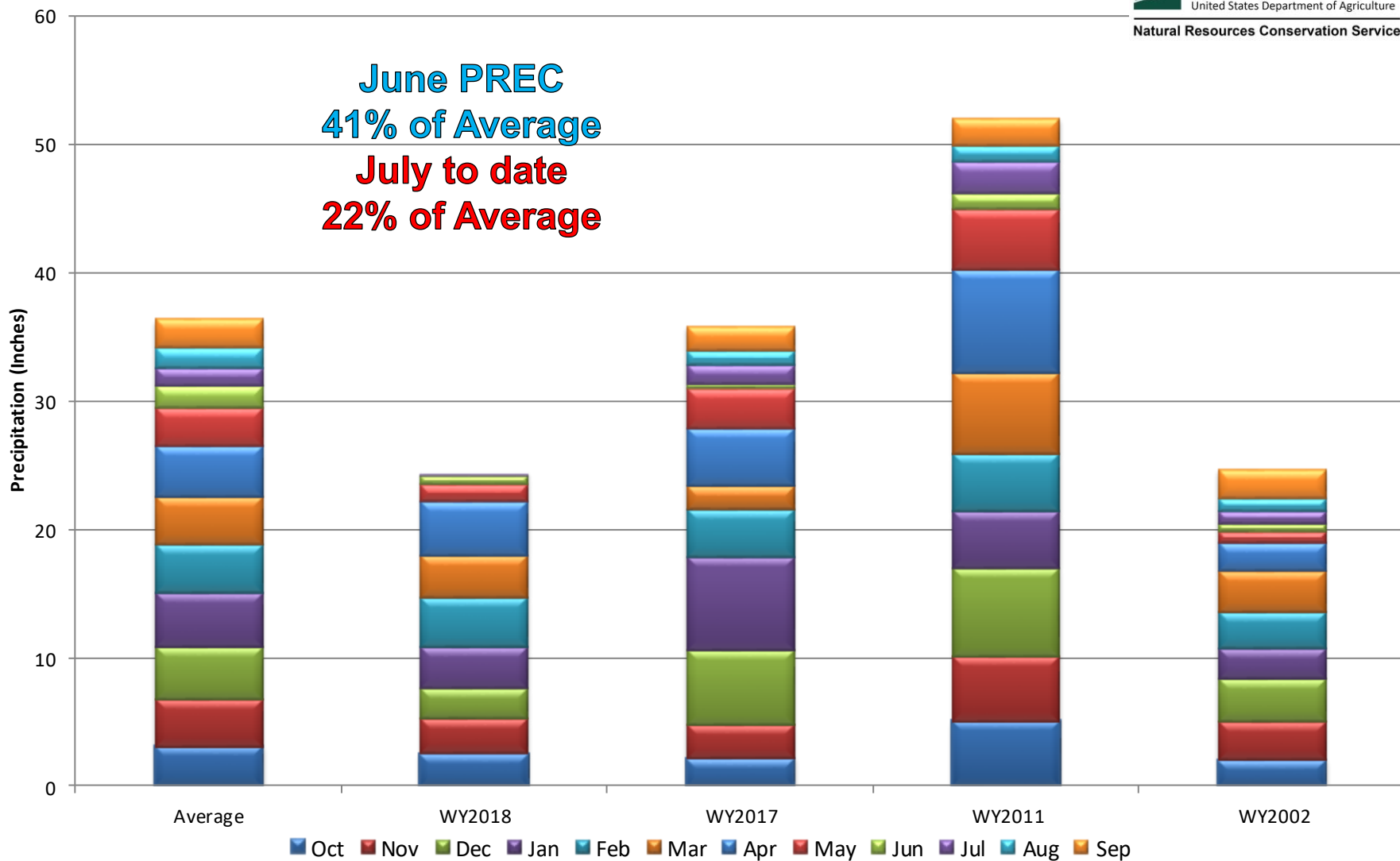
Yampa and White River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 23, 2018

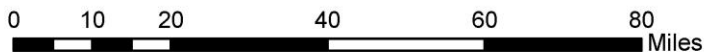
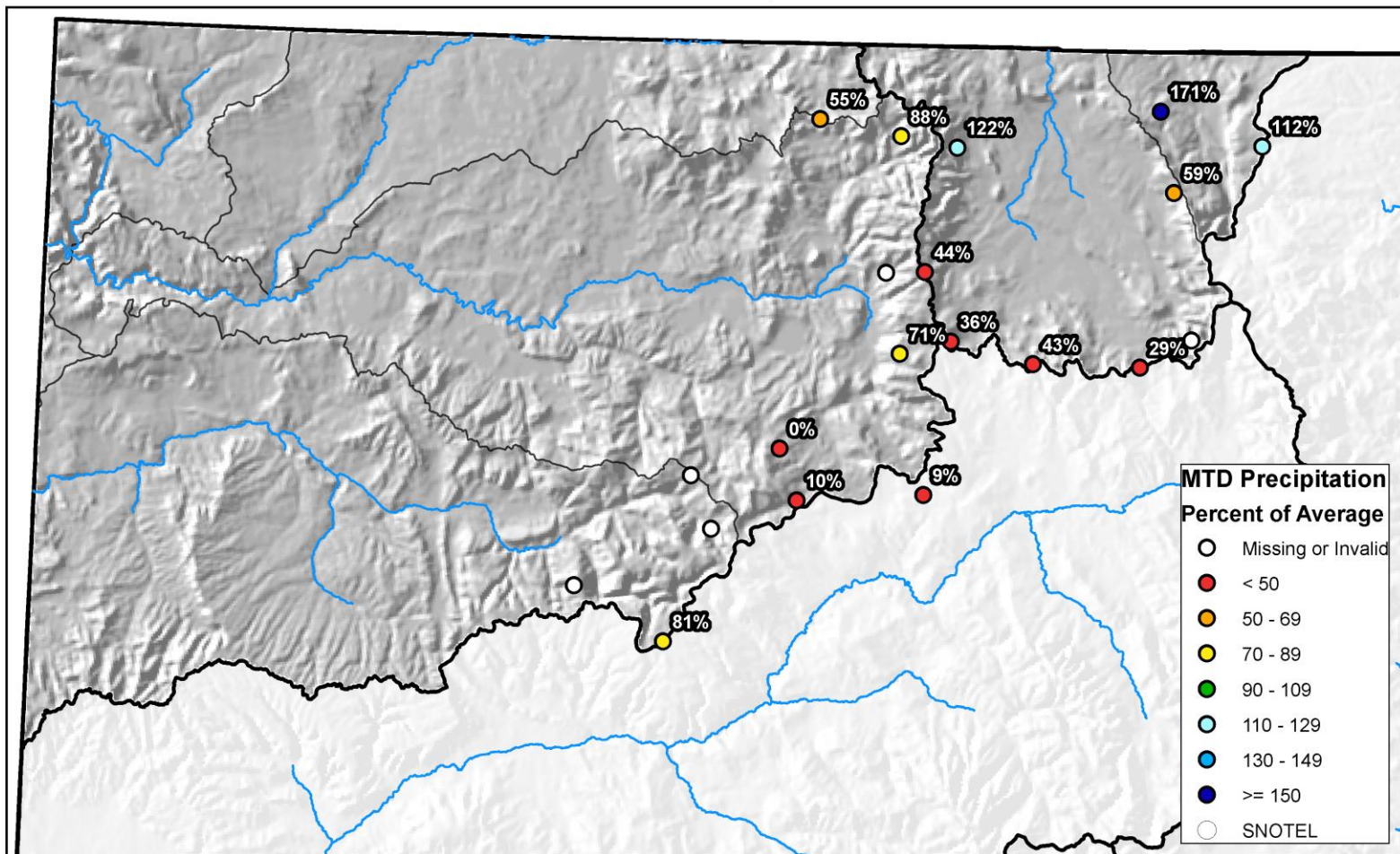


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Yampa, White, and North Platte River Basins Month to Date Precipitation Summary Current as of Jul 23, 2018





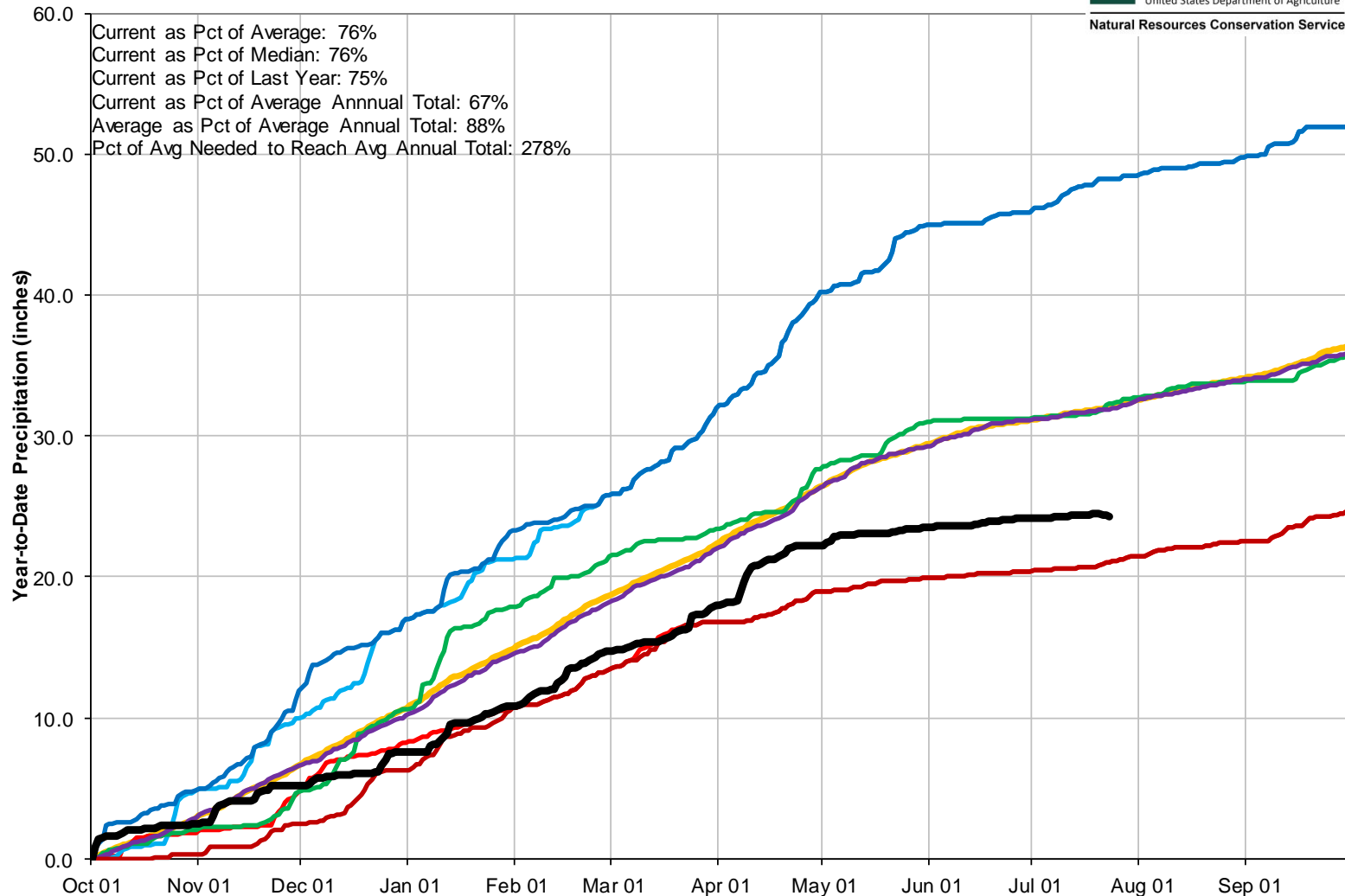
Yampa and White River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 23, 2018



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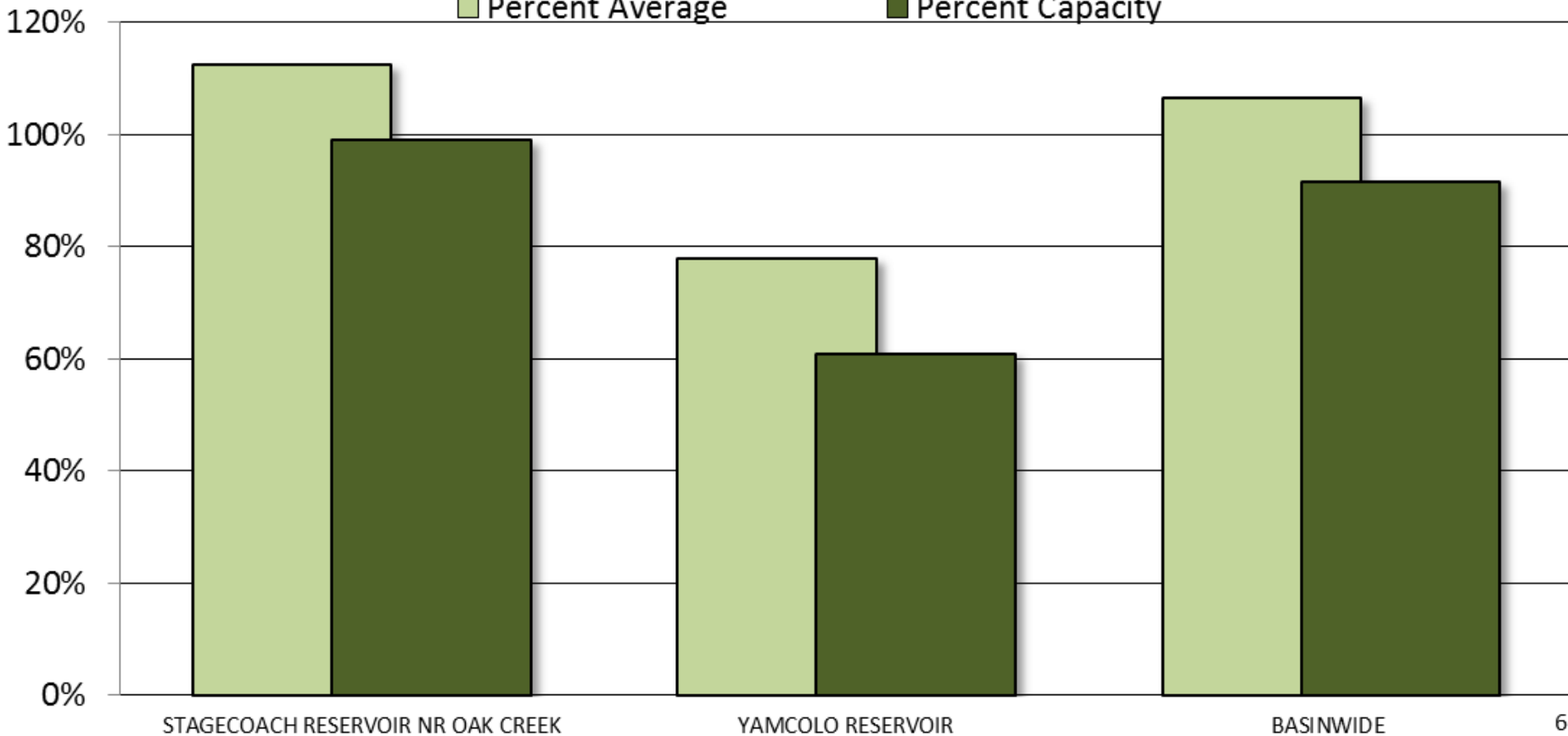
Natural Resources Conservation Service



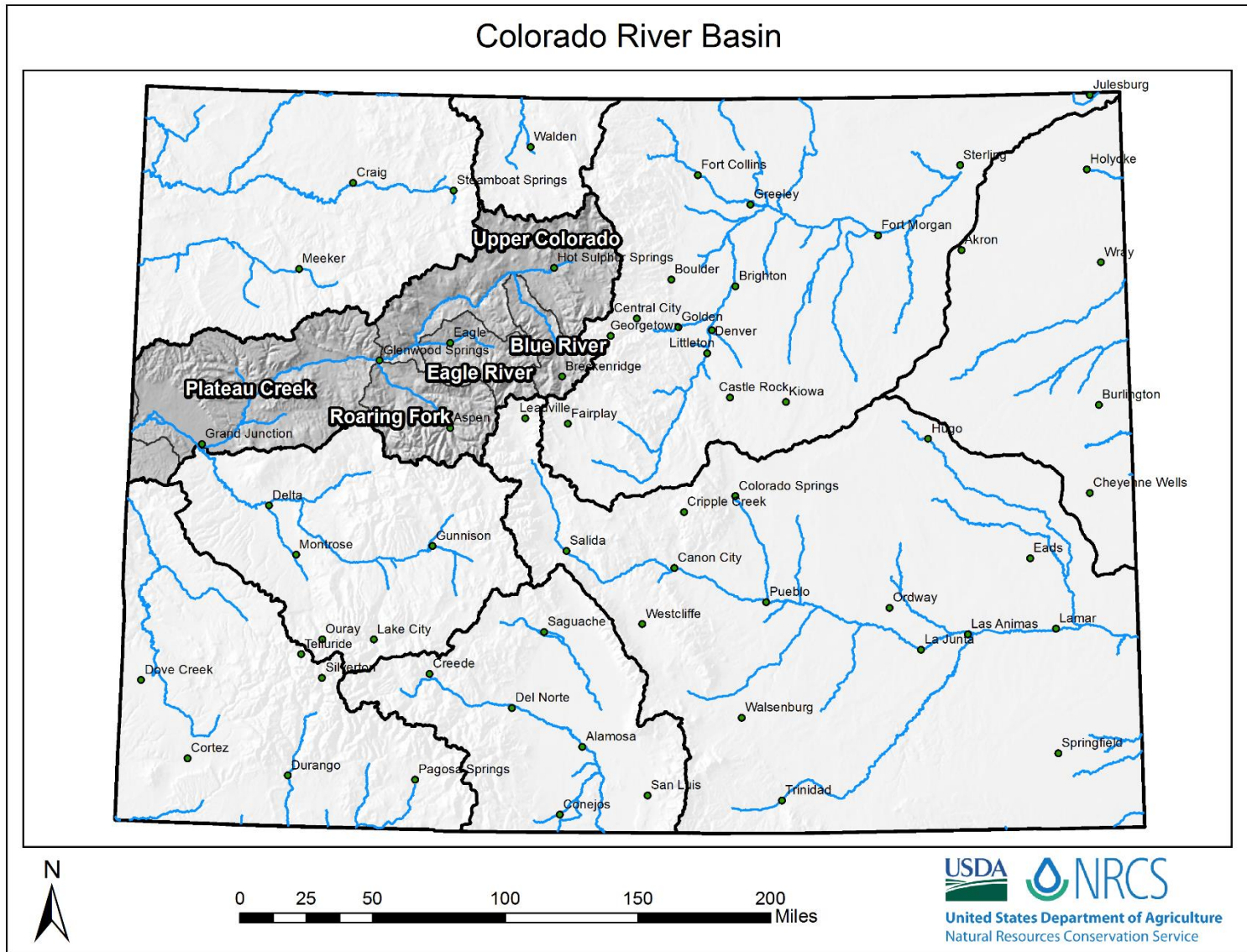
Reservoir Storage

■ Percent Average

■ Percent Capacity



Major Basin Summary



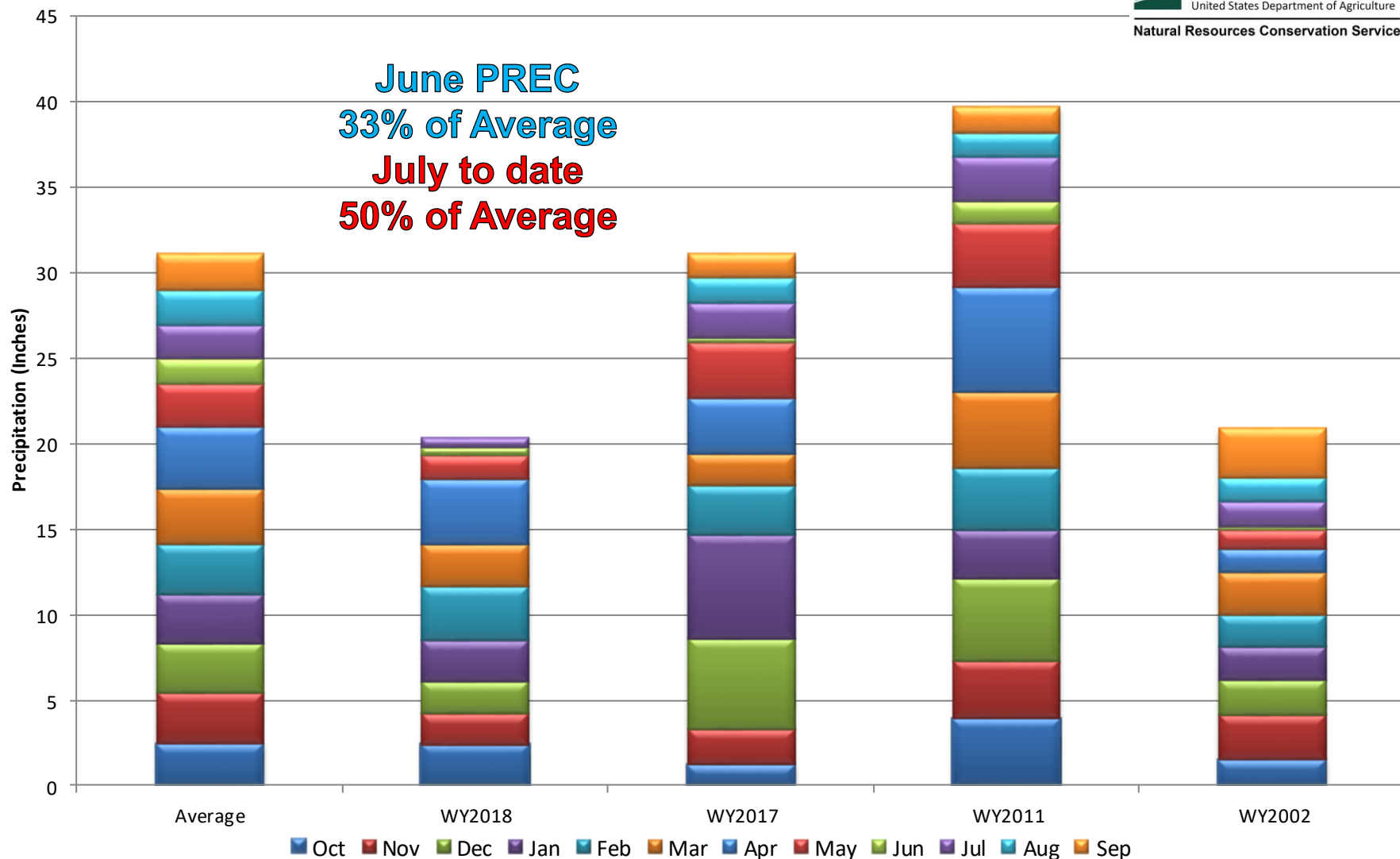
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 23, 2018



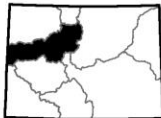
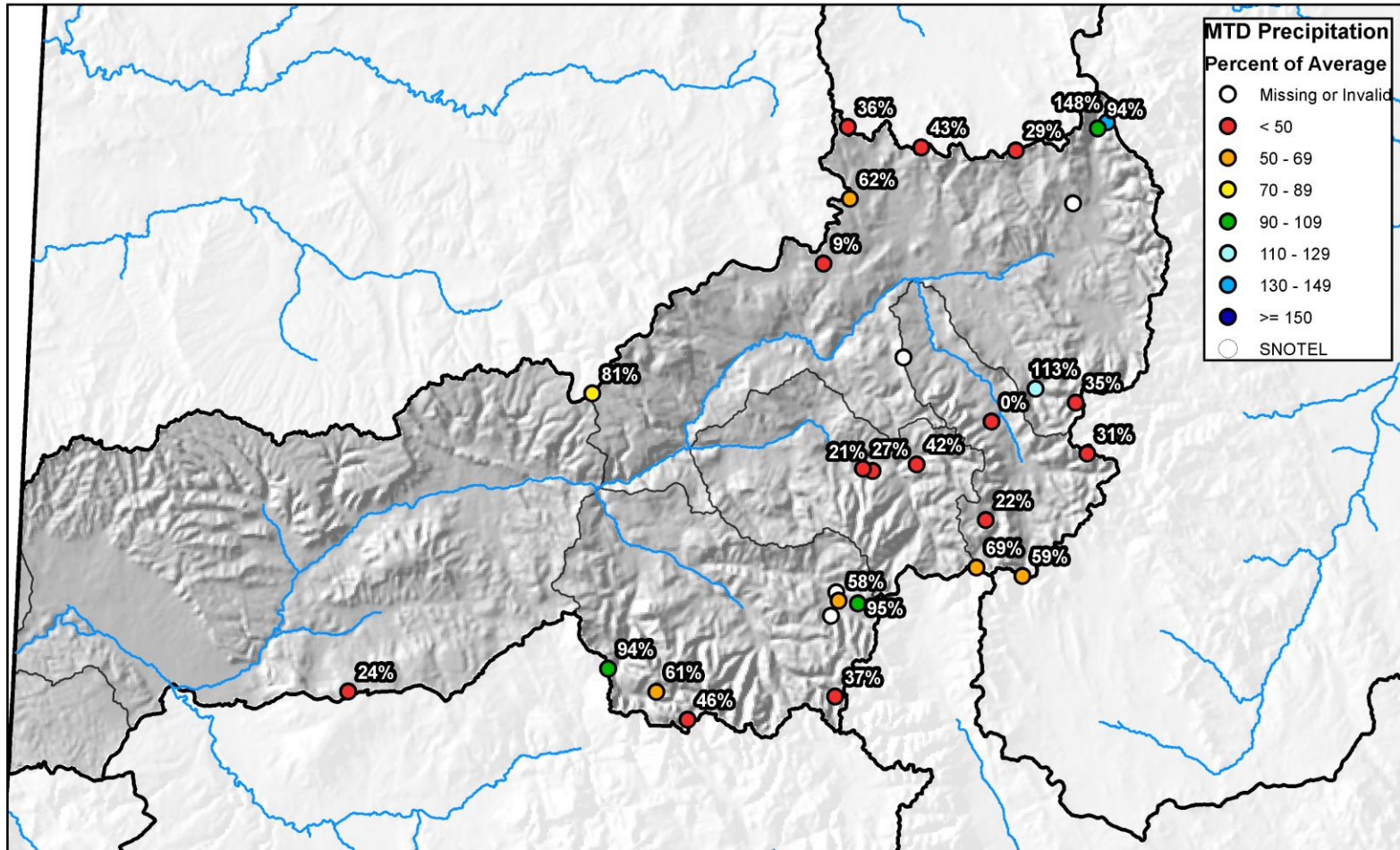
United States Department of Agriculture

Natural Resources Conservation Service



Upper Colorado River Basin Month to Date Precipitation Summary

Current as of Jul 23, 2018



0 10 20 40 60 80 Miles



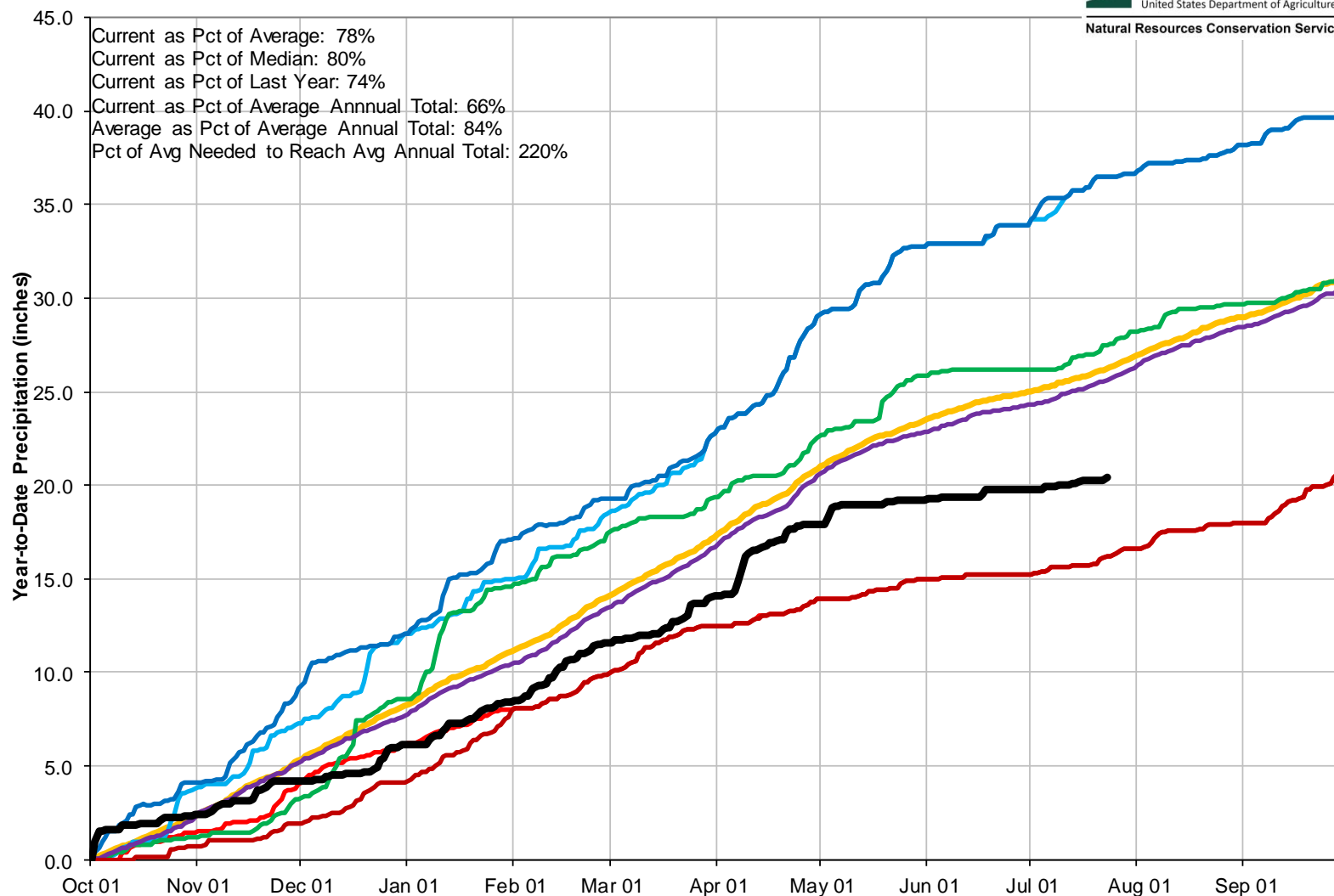
Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

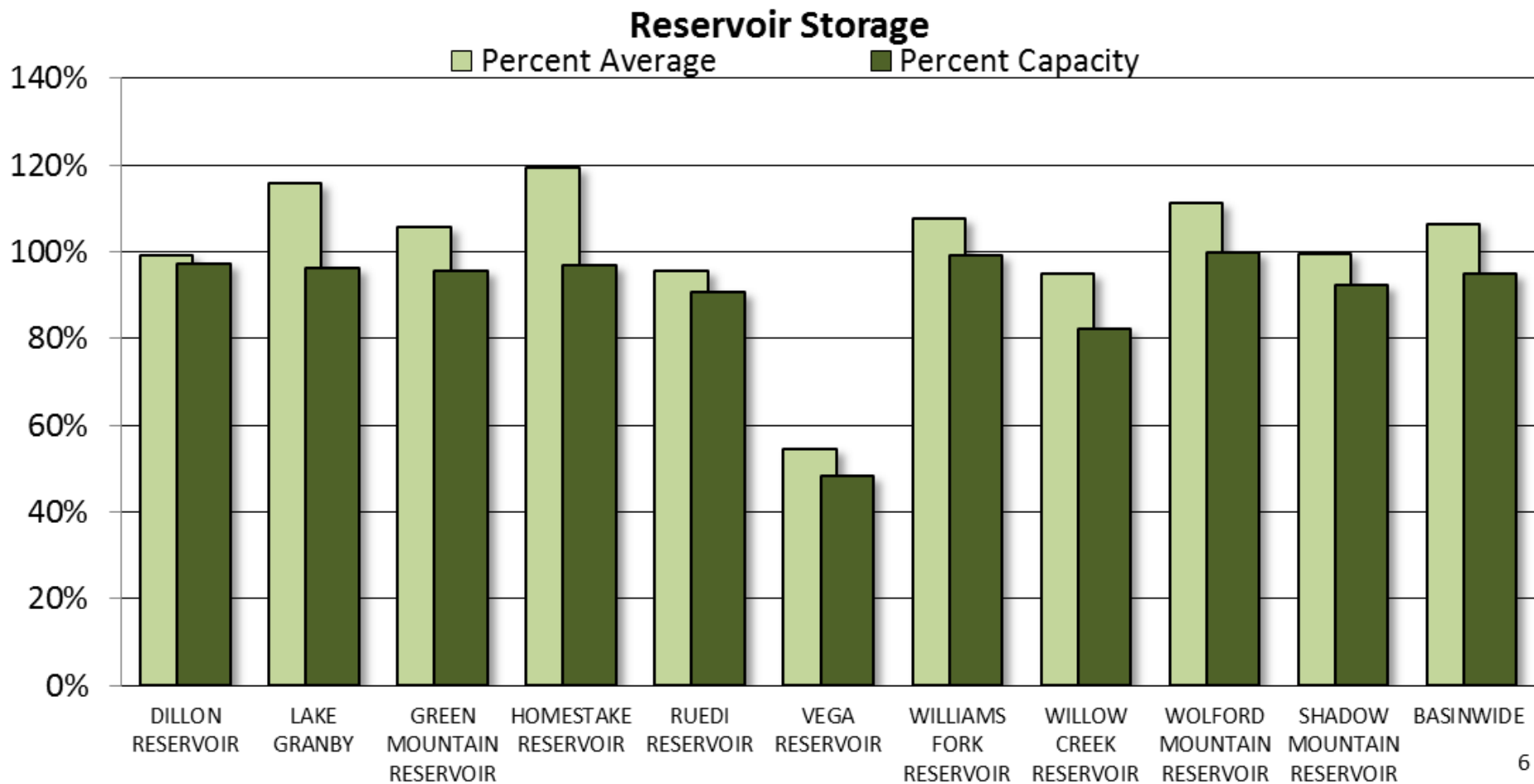
Based on Provisional SNOTEL data as of Jul 23, 2018



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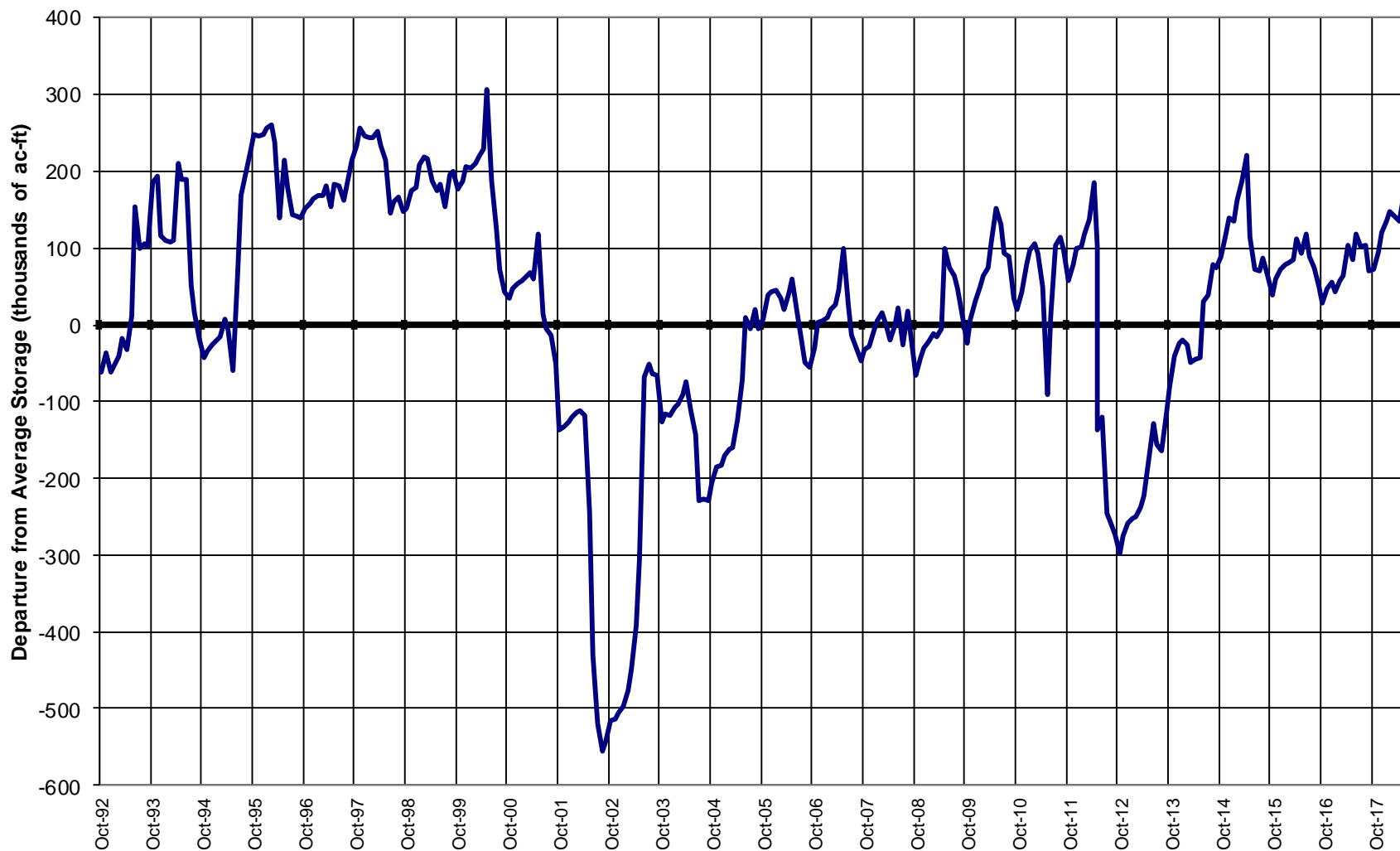
Natural Resources Conservation Service





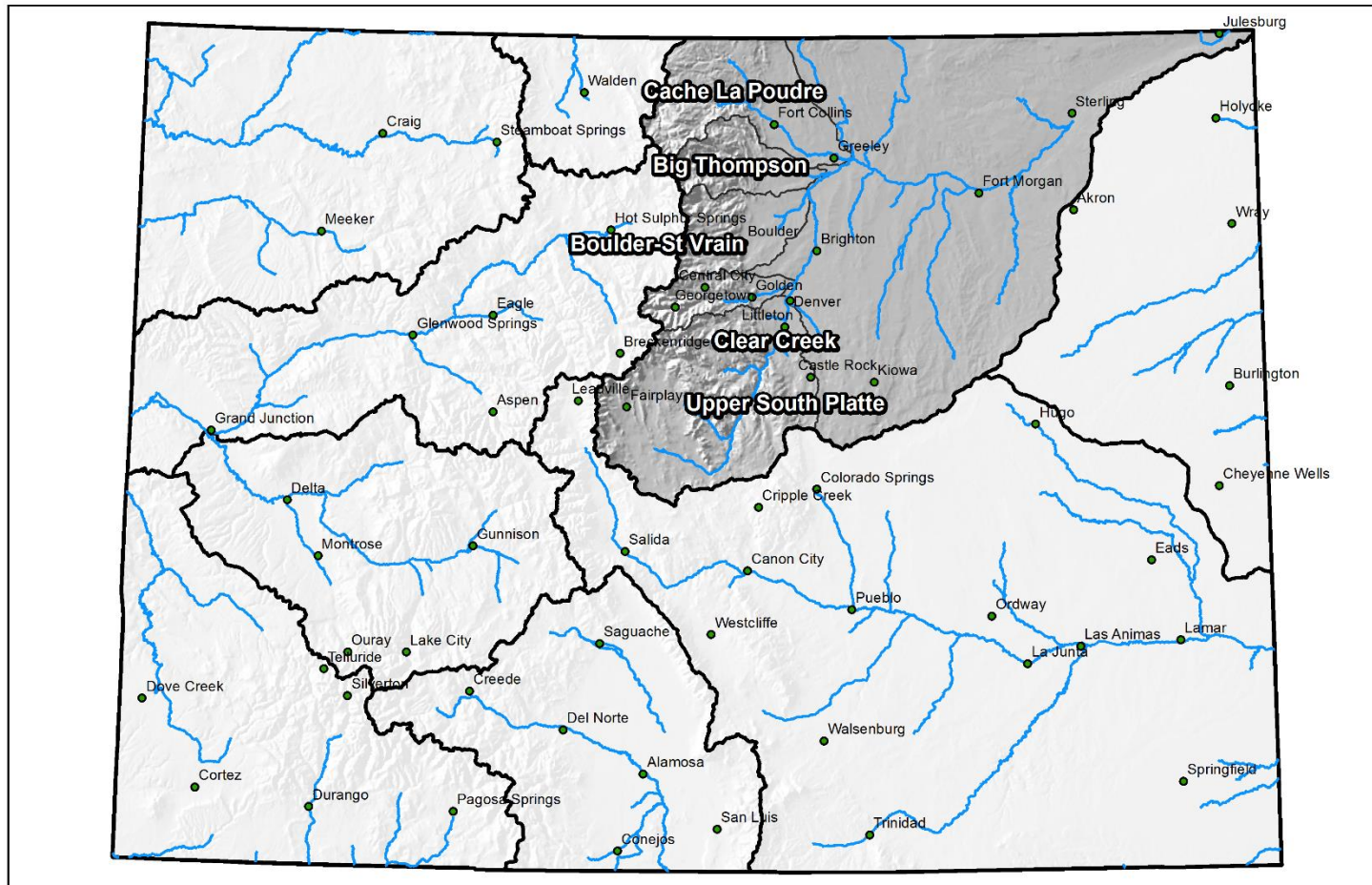


COLORADO RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

South Platte River Basin



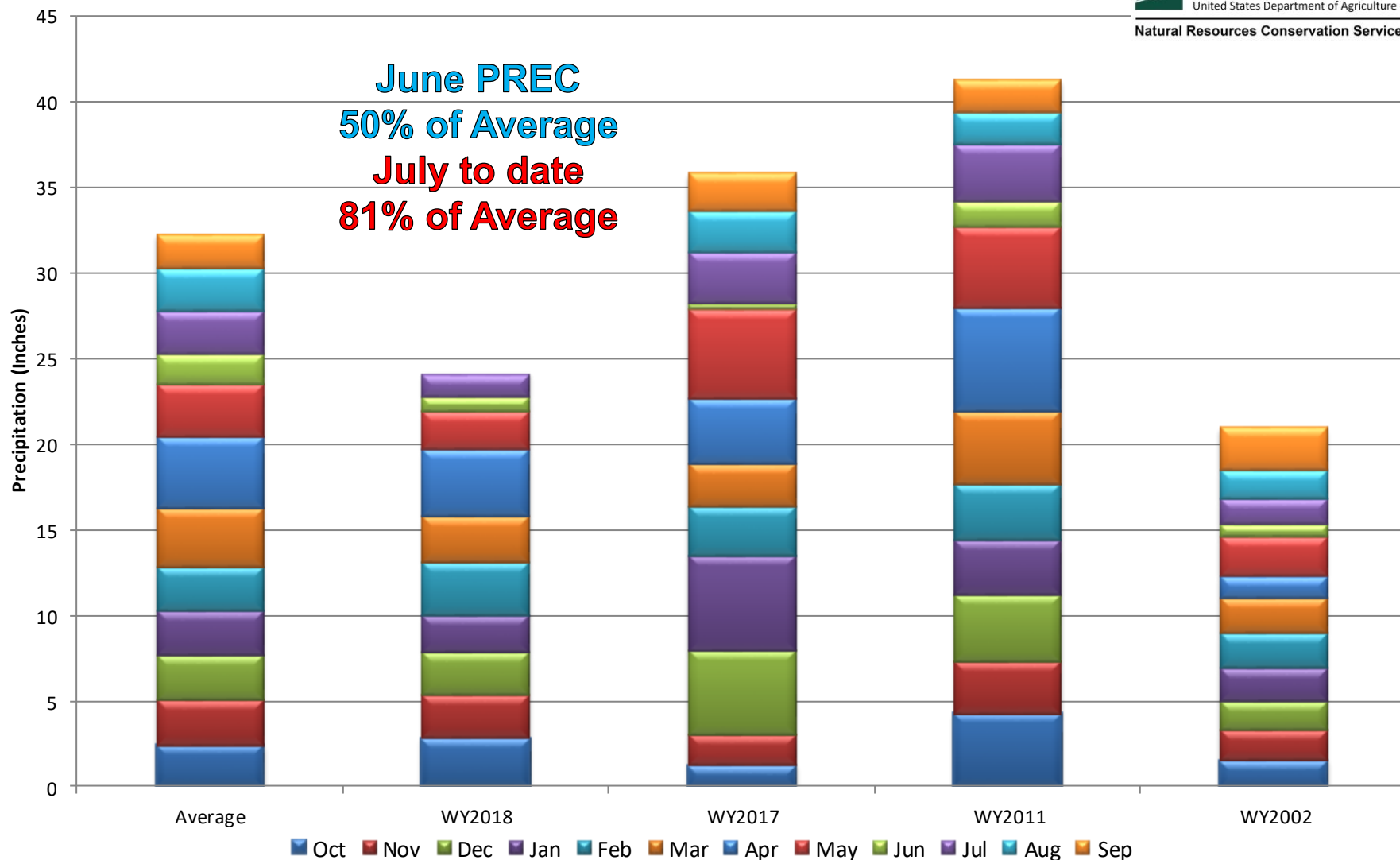
South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 23, 2018



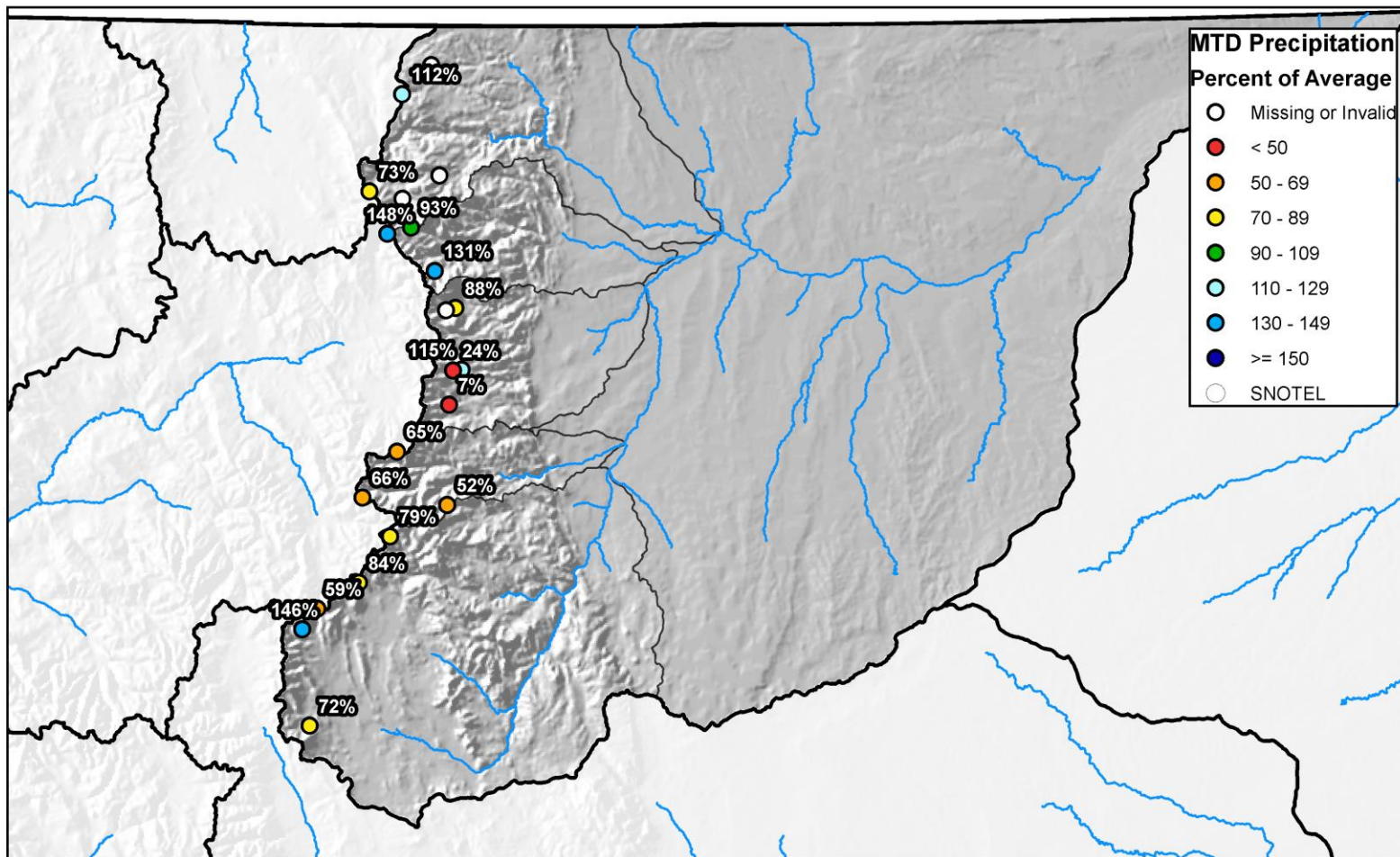
United States Department of Agriculture

Natural Resources Conservation Service



South Platte River Basin Month to Date Precipitation Summary

Current as of Jul 23, 2018



0 10 20 40 60 80 Miles

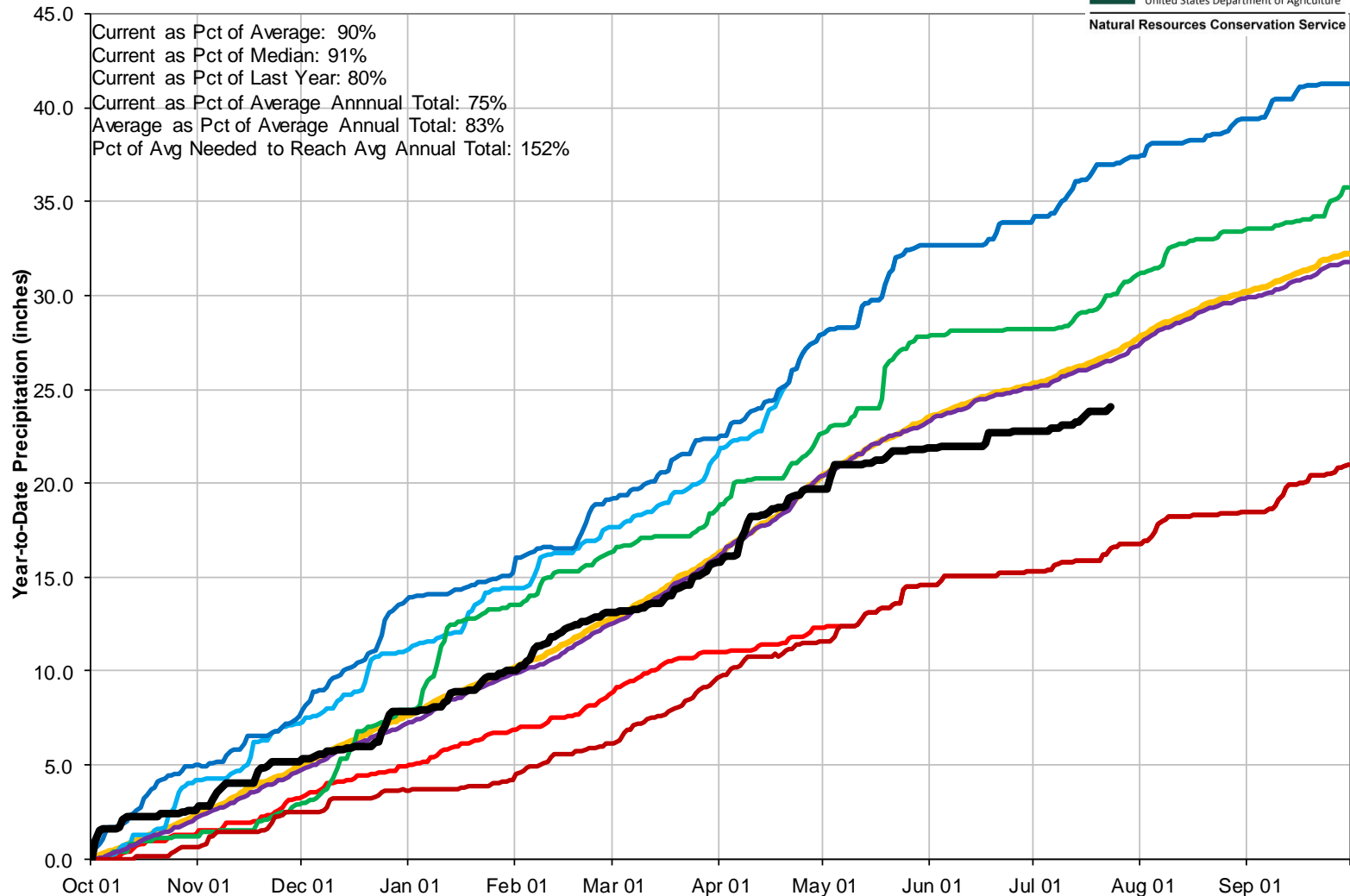
South Platte River Basin High/Low Year-to-Date Precipitation Summary

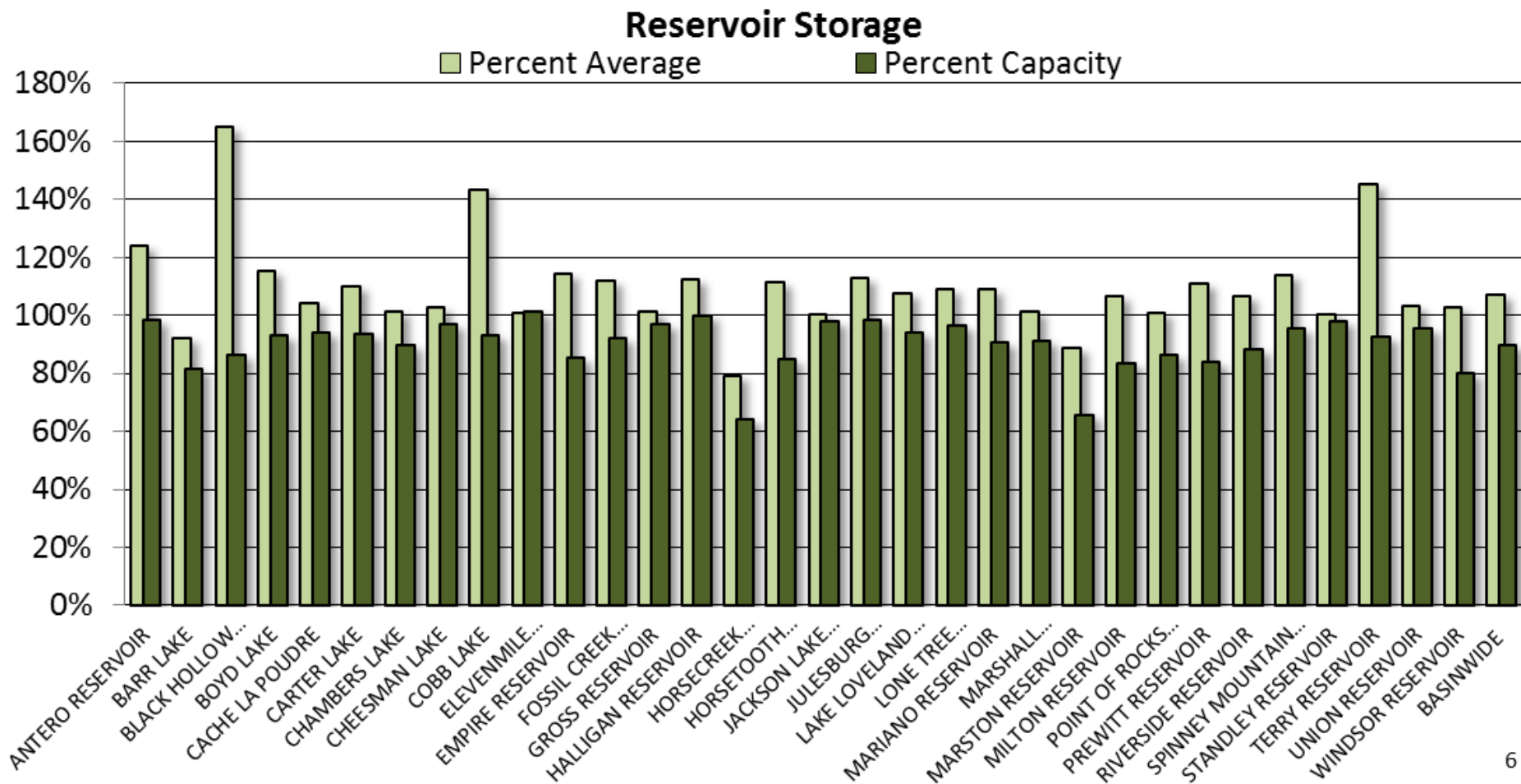
Based on Provisional SNOTEL data as of Jul 23, 2018



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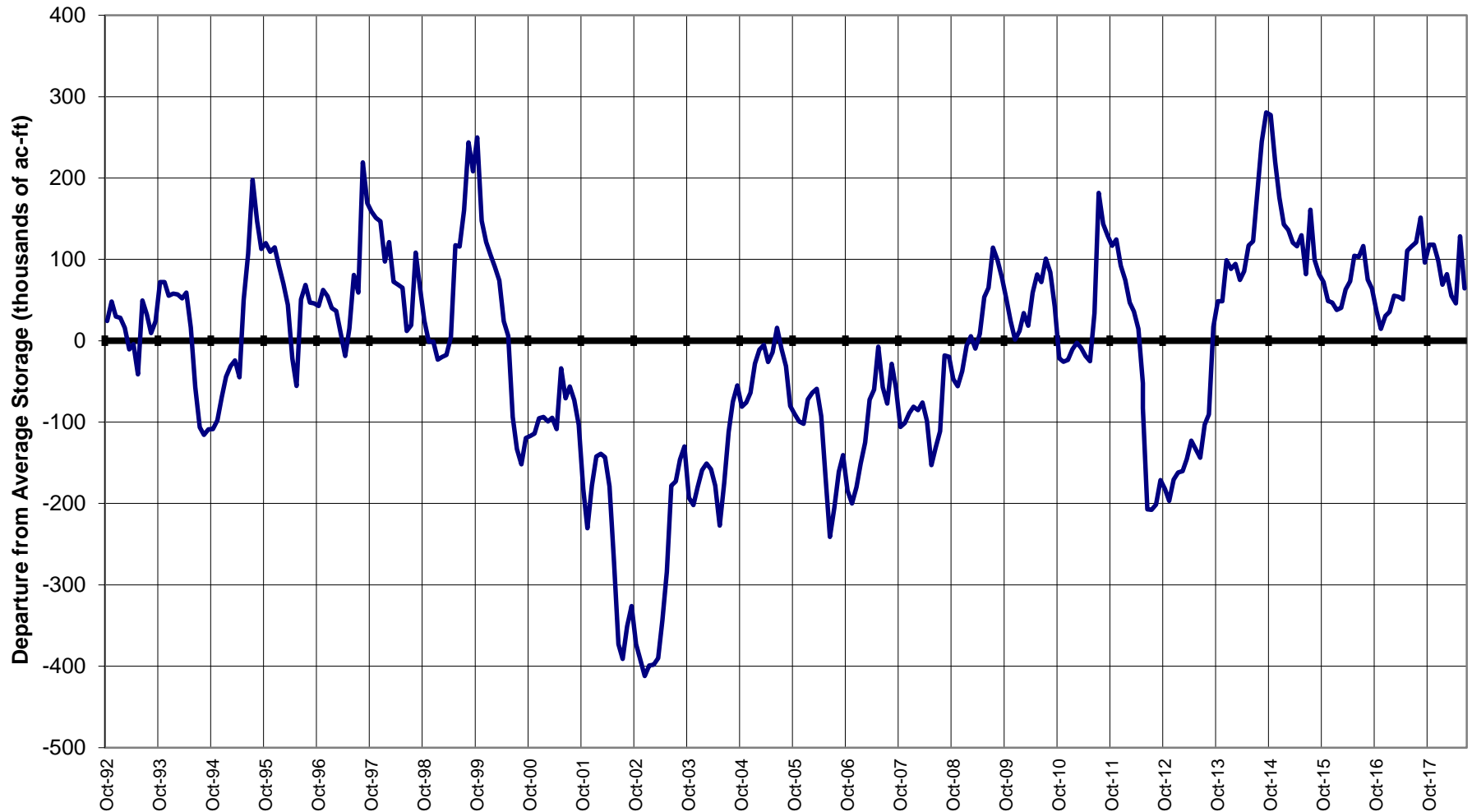
Natural Resources Conservation Service





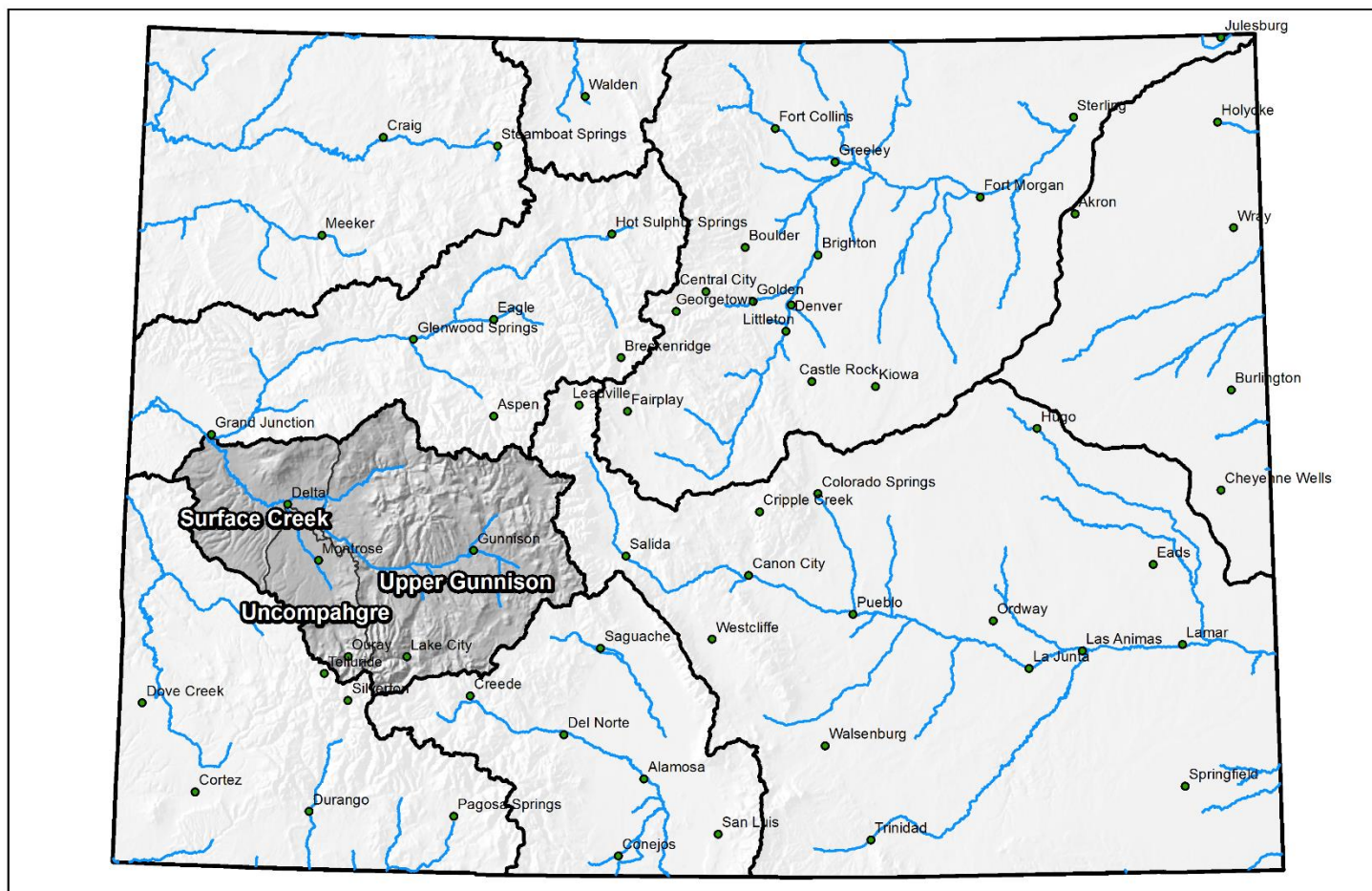


SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

Gunnison River Basin



0 25 50 100 150 200 Miles



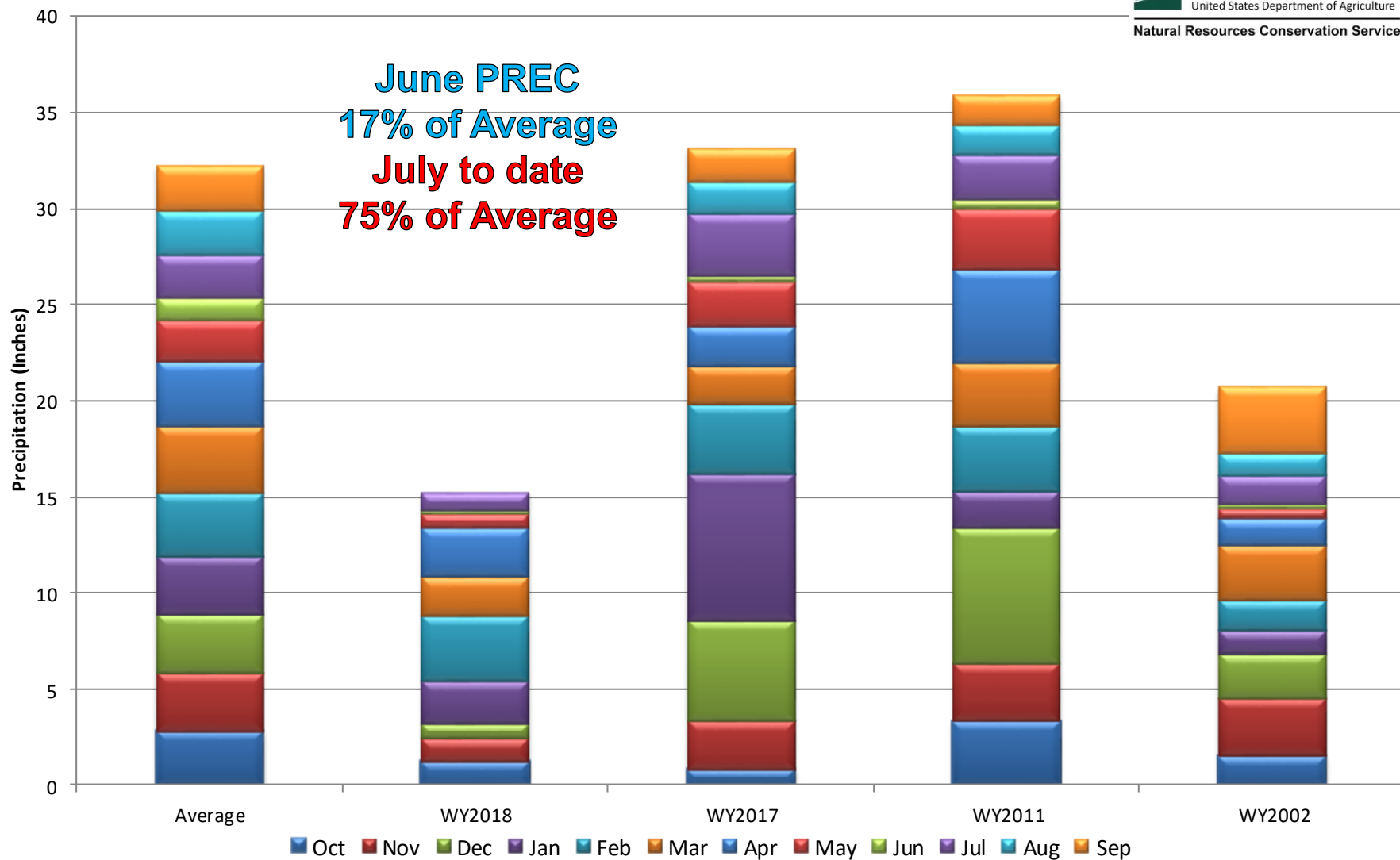
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 23, 2018



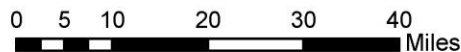
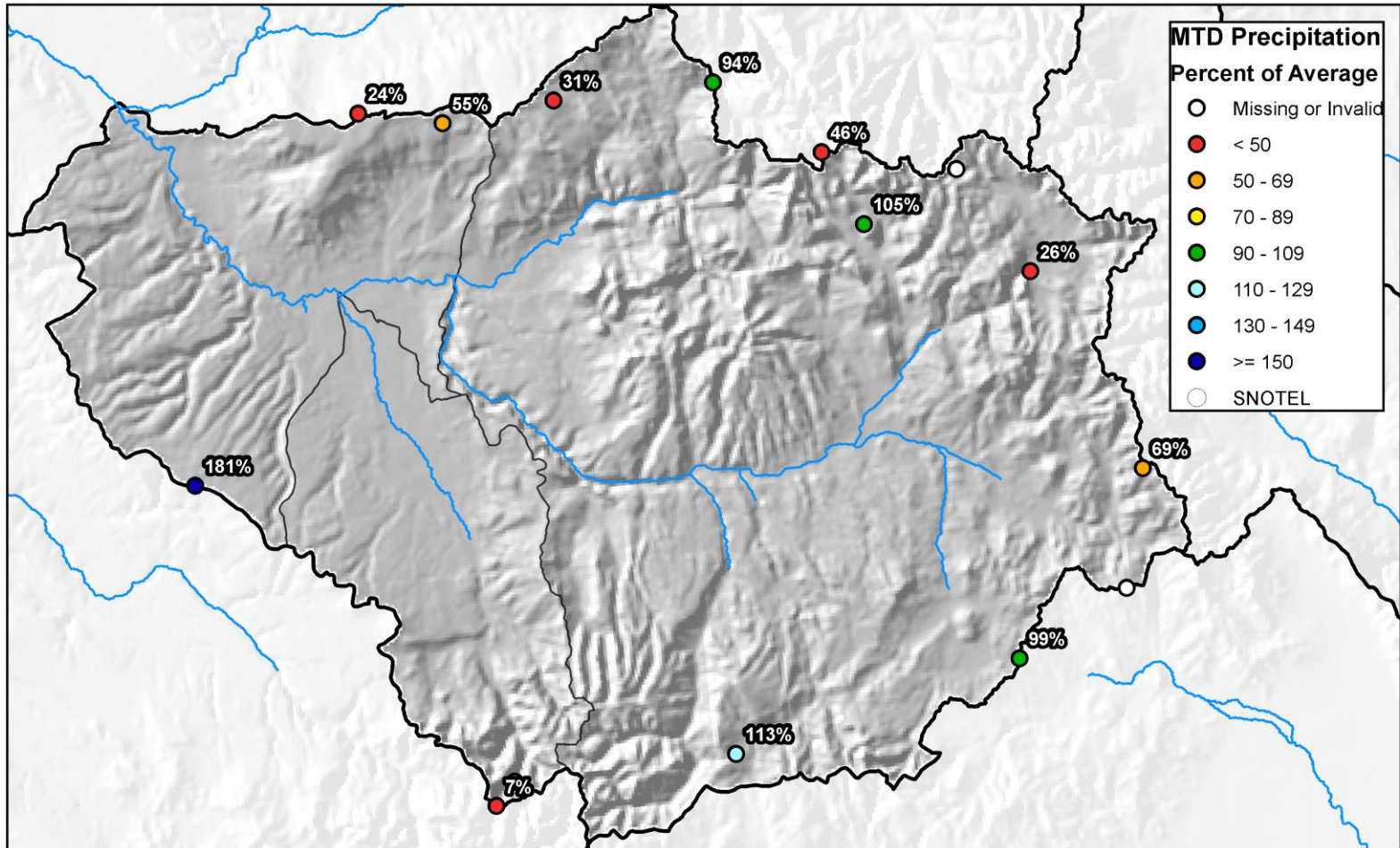
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Gunnison River Basin Month to Date Precipitation Summary

Current as of Jul 23, 2018





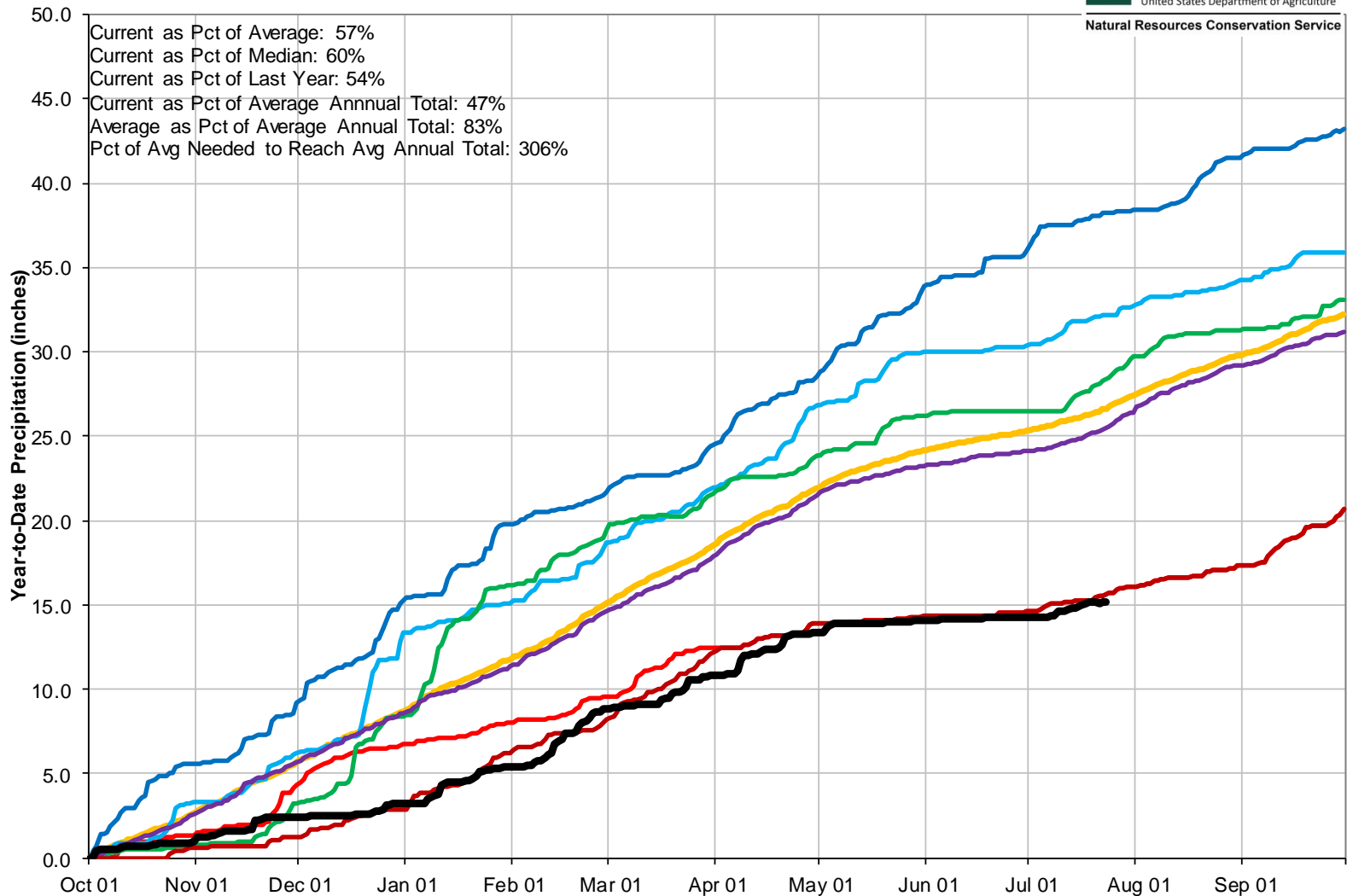
Gunnison River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 23, 2018



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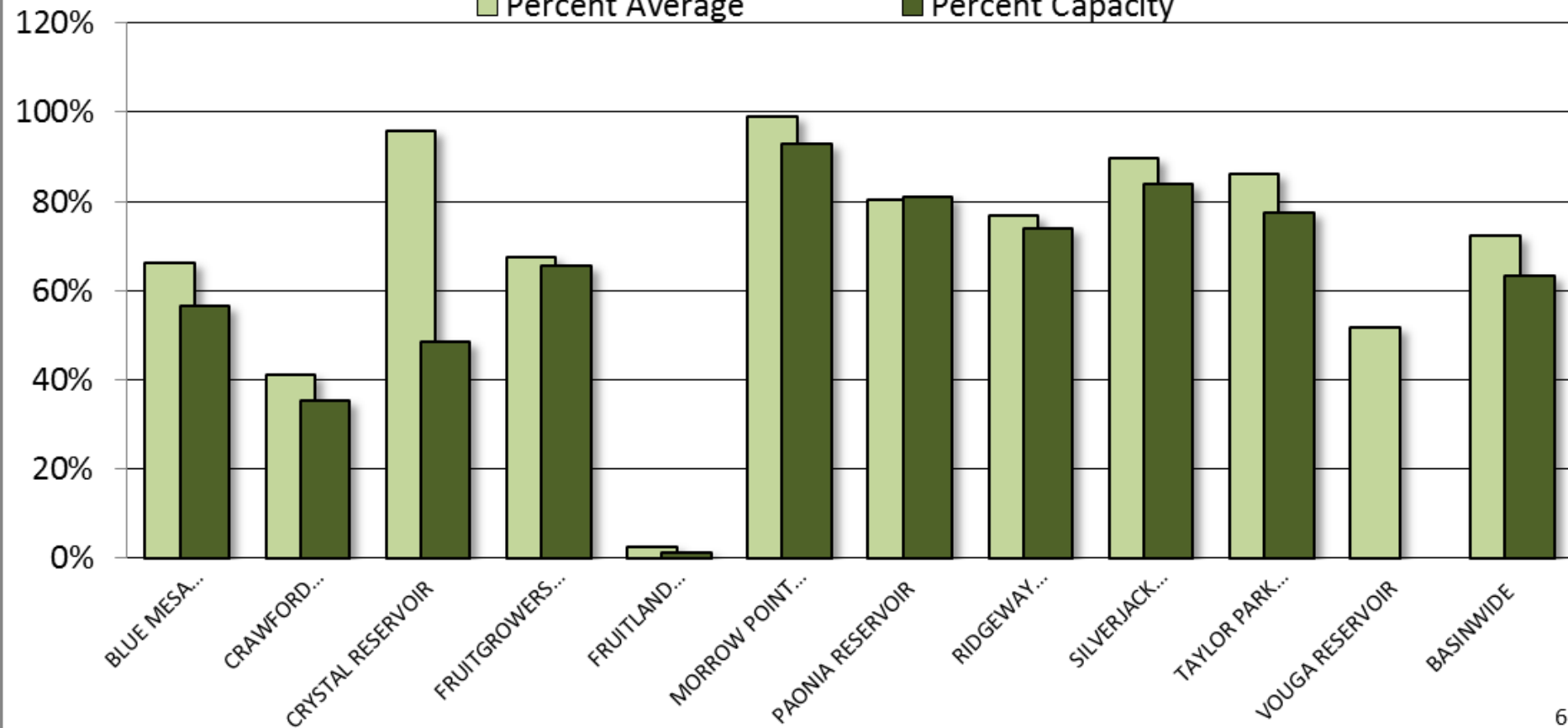
Natural Resources Conservation Service



Reservoir Storage

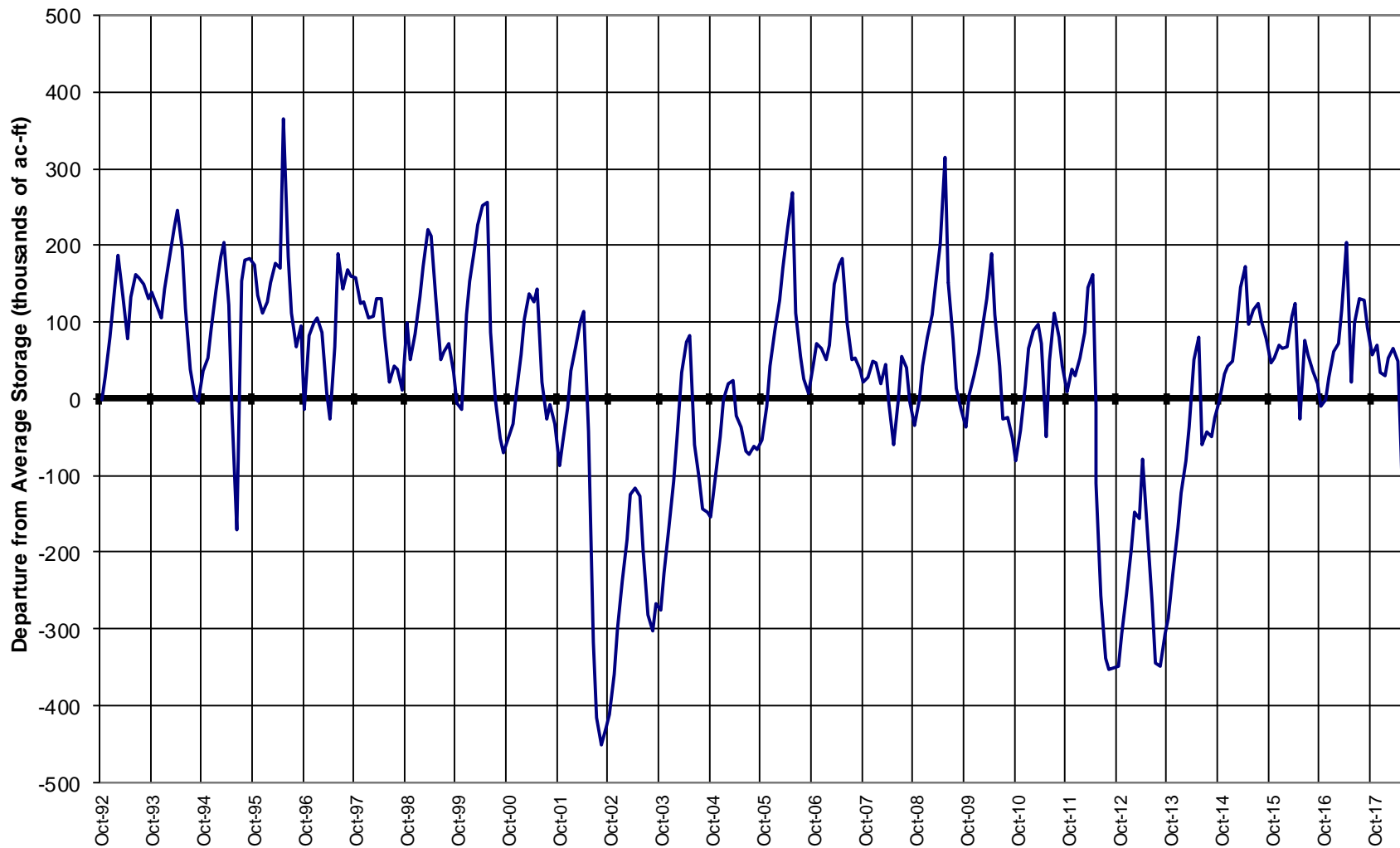
■ Percent Average

■ Percent Capacity



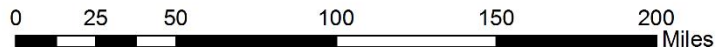
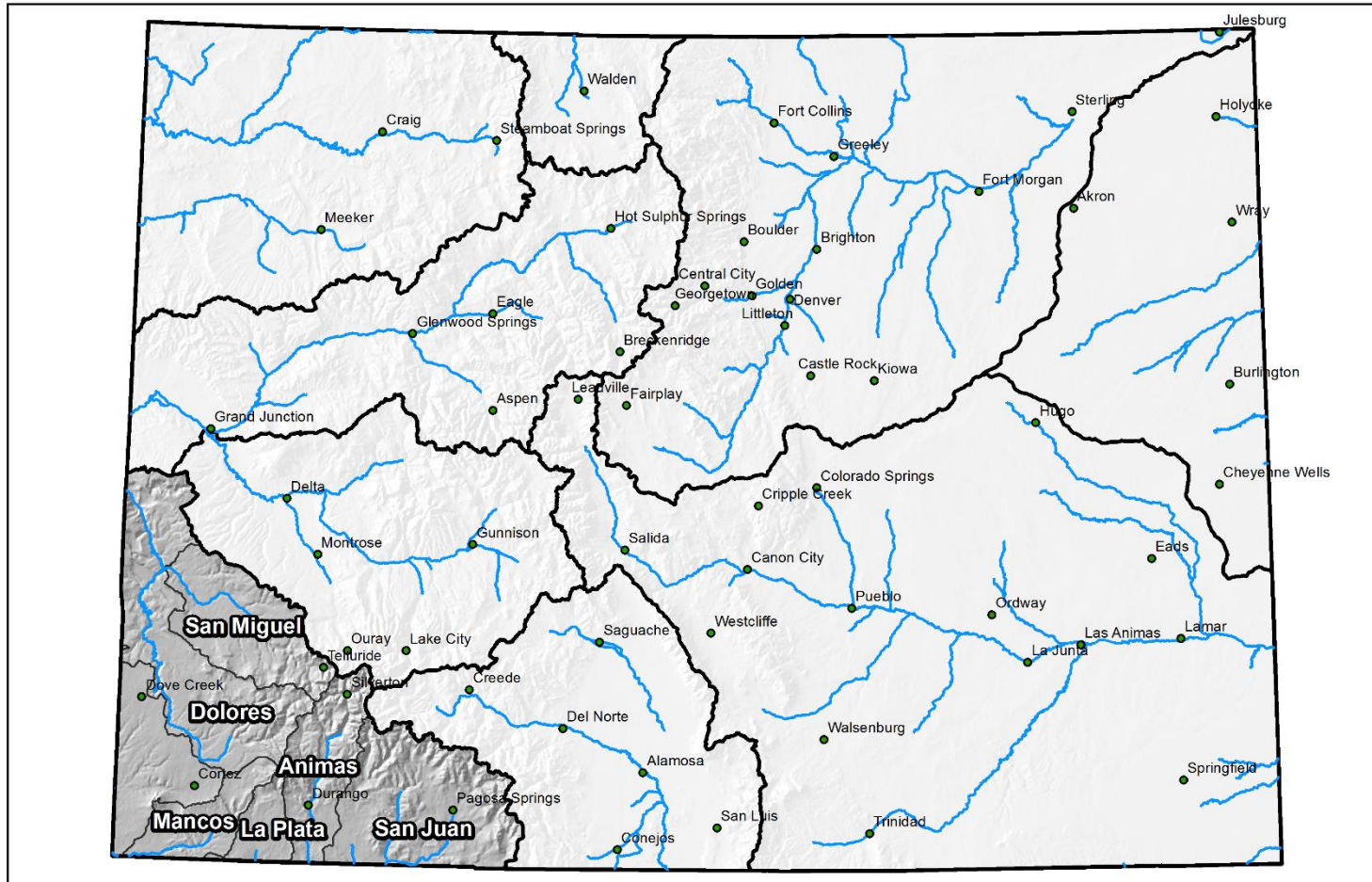


GUNNISON RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

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



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

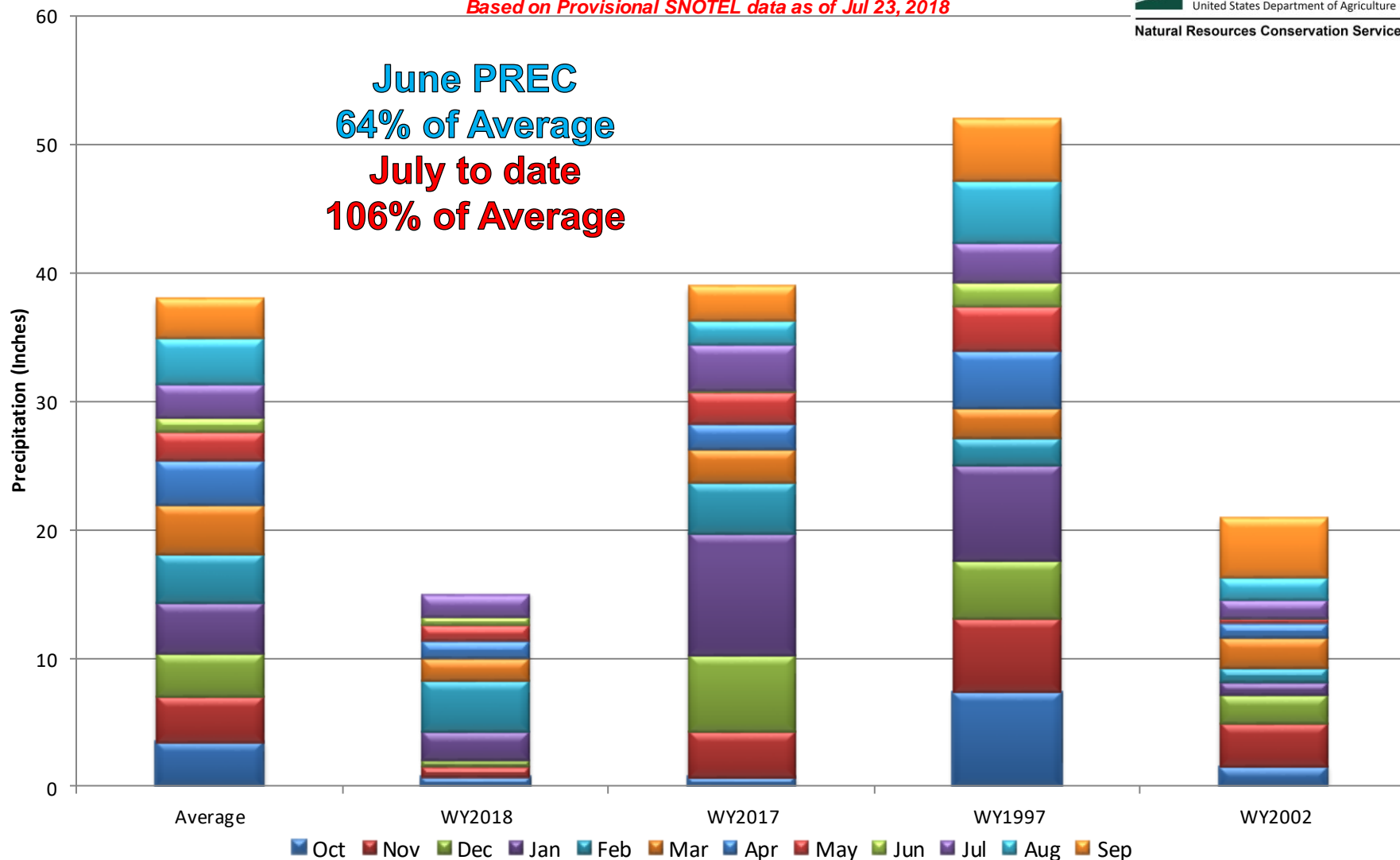
Based on Provisional SNOTEL data as of Jul 23, 2018



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Natural Resources Conservation Service

June PREC
64% of Average
July to date
106% of Average

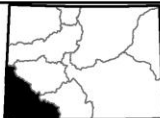
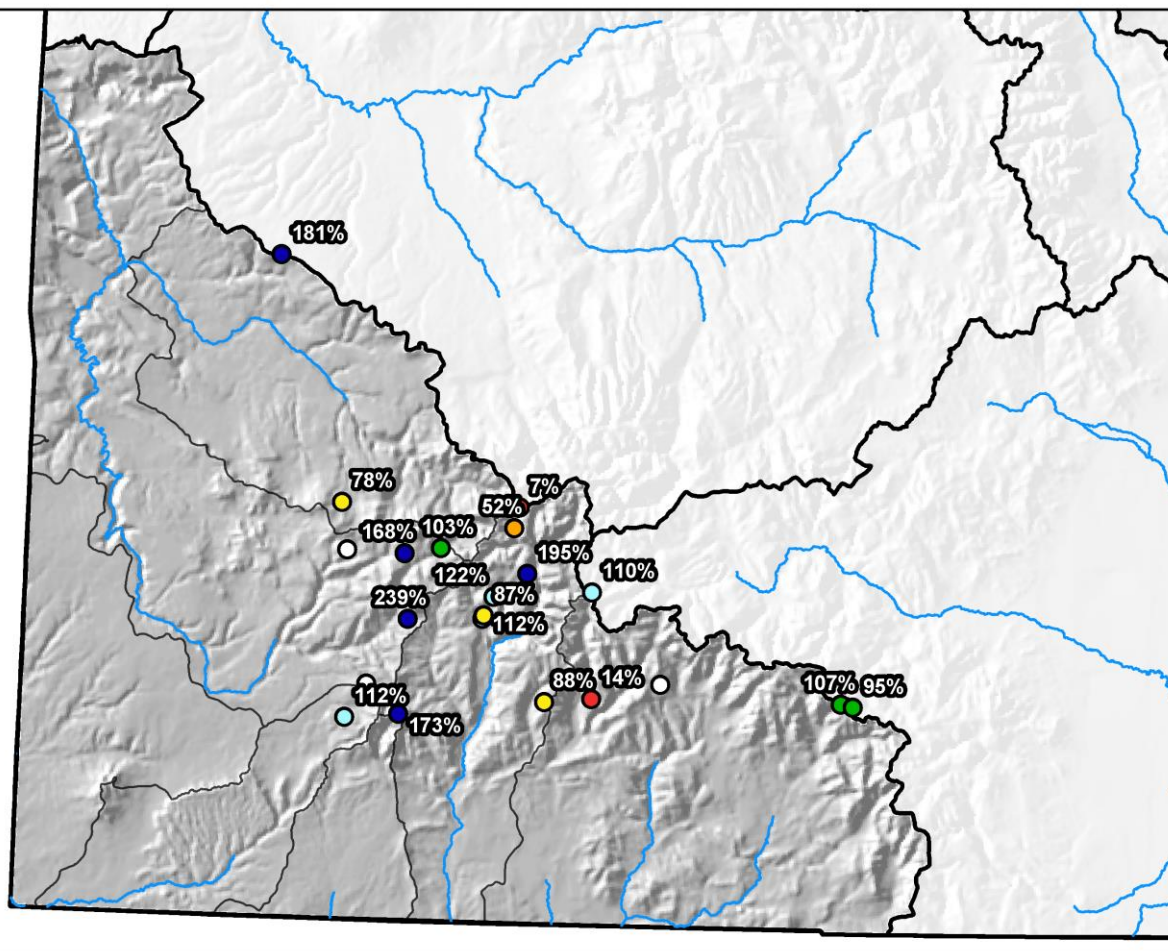


San Miguel, Dolores, Animas, and San Juan River Basins Month to Date Precipitation Summary

Current as of Jul 23, 2018

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

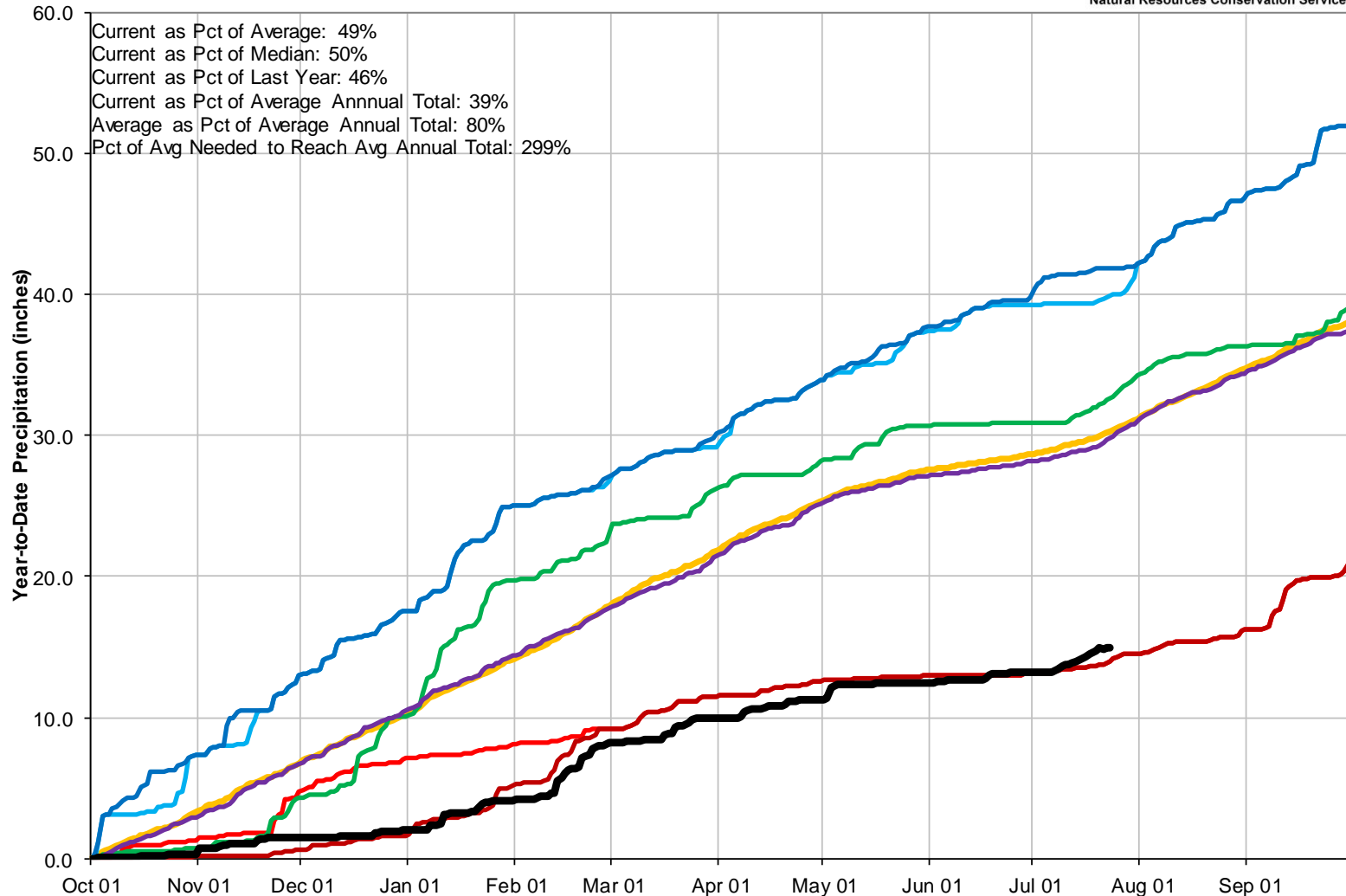
San Miguel, Dolores, Animas and San Juan River Basins High/Low Year-to-Date Precipitation Summary

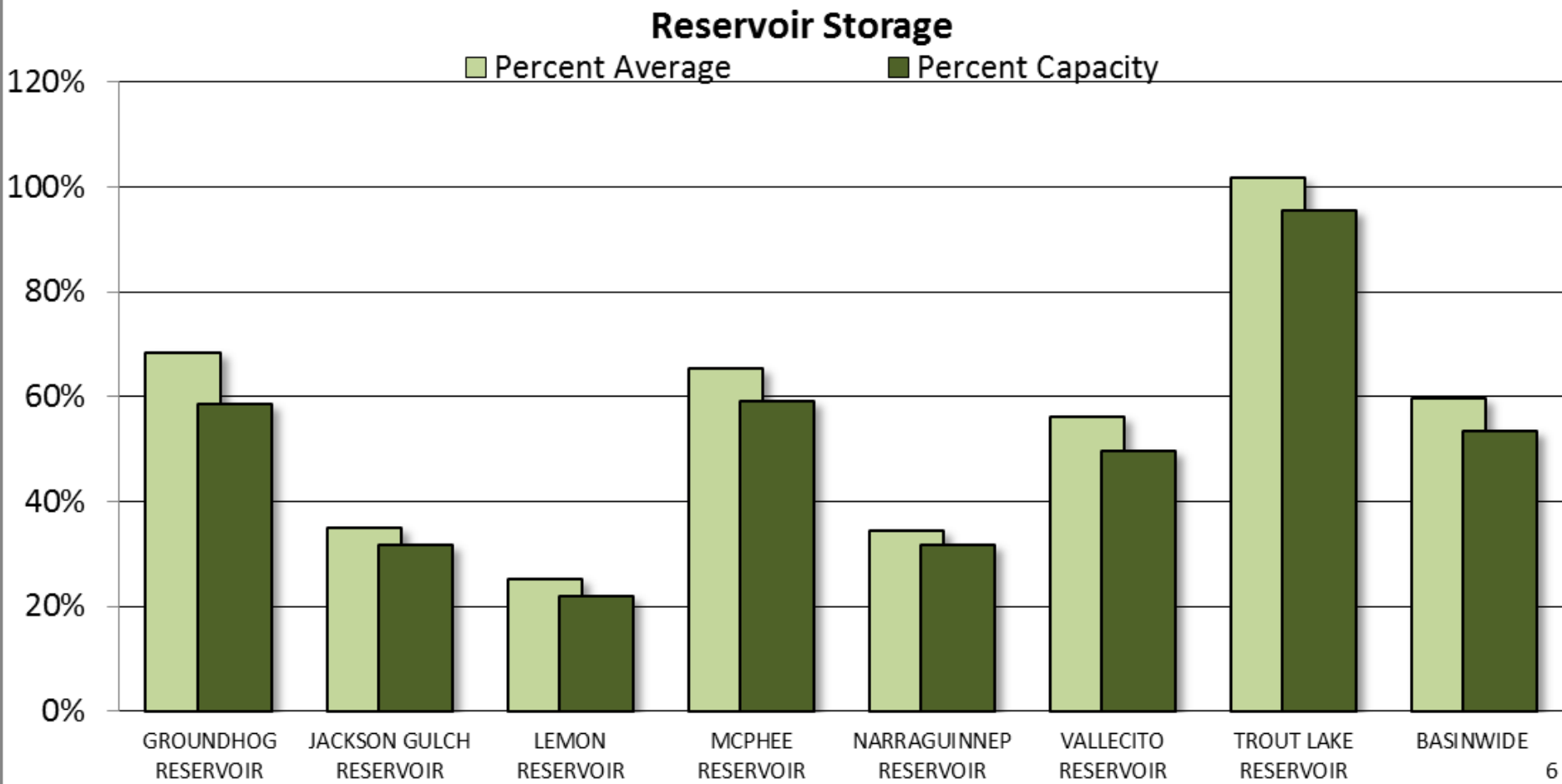
Based on Provisional SNOTEL data as of Jul 23, 2018



United States Department of Agriculture

Natural Resources Conservation Service

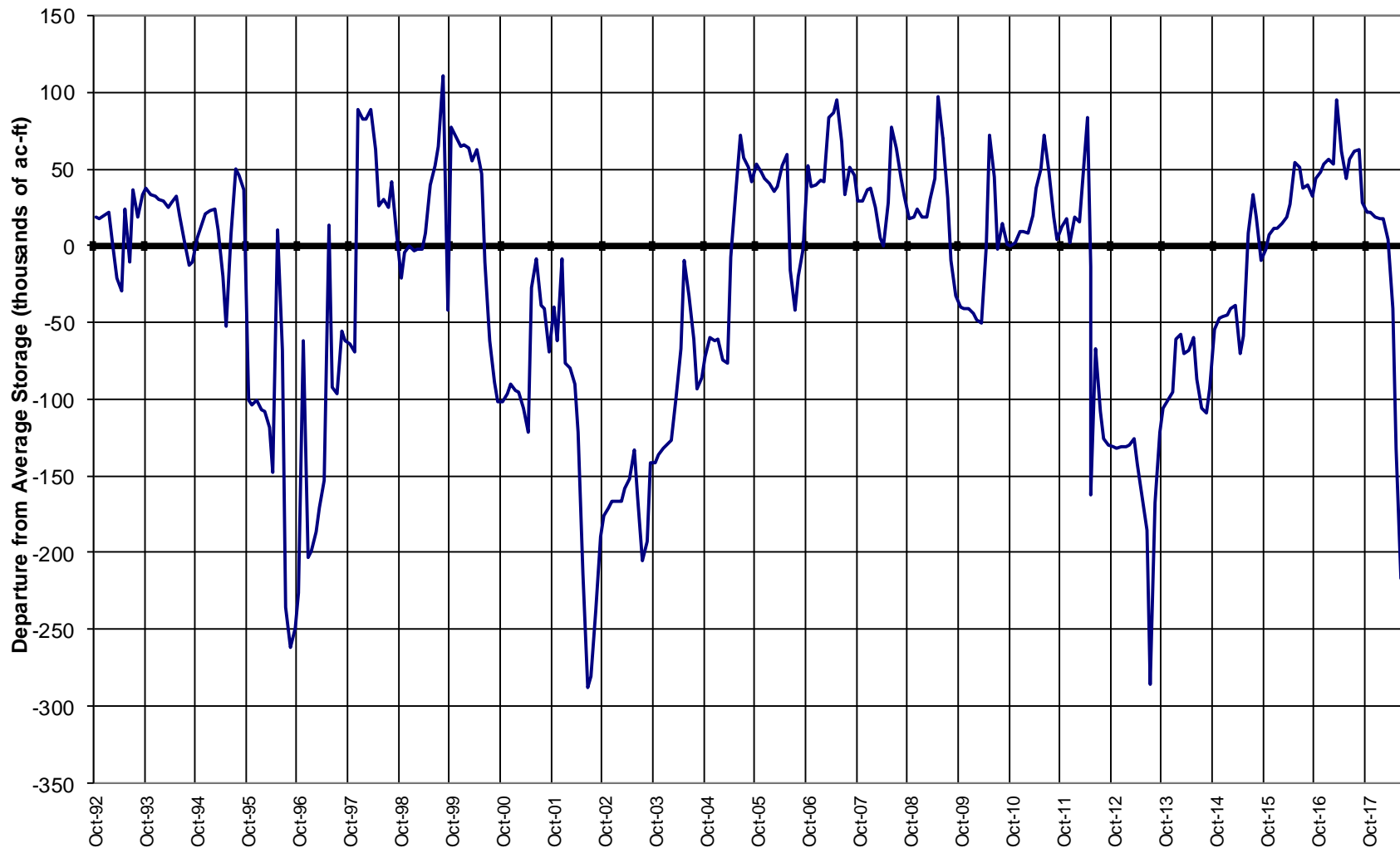






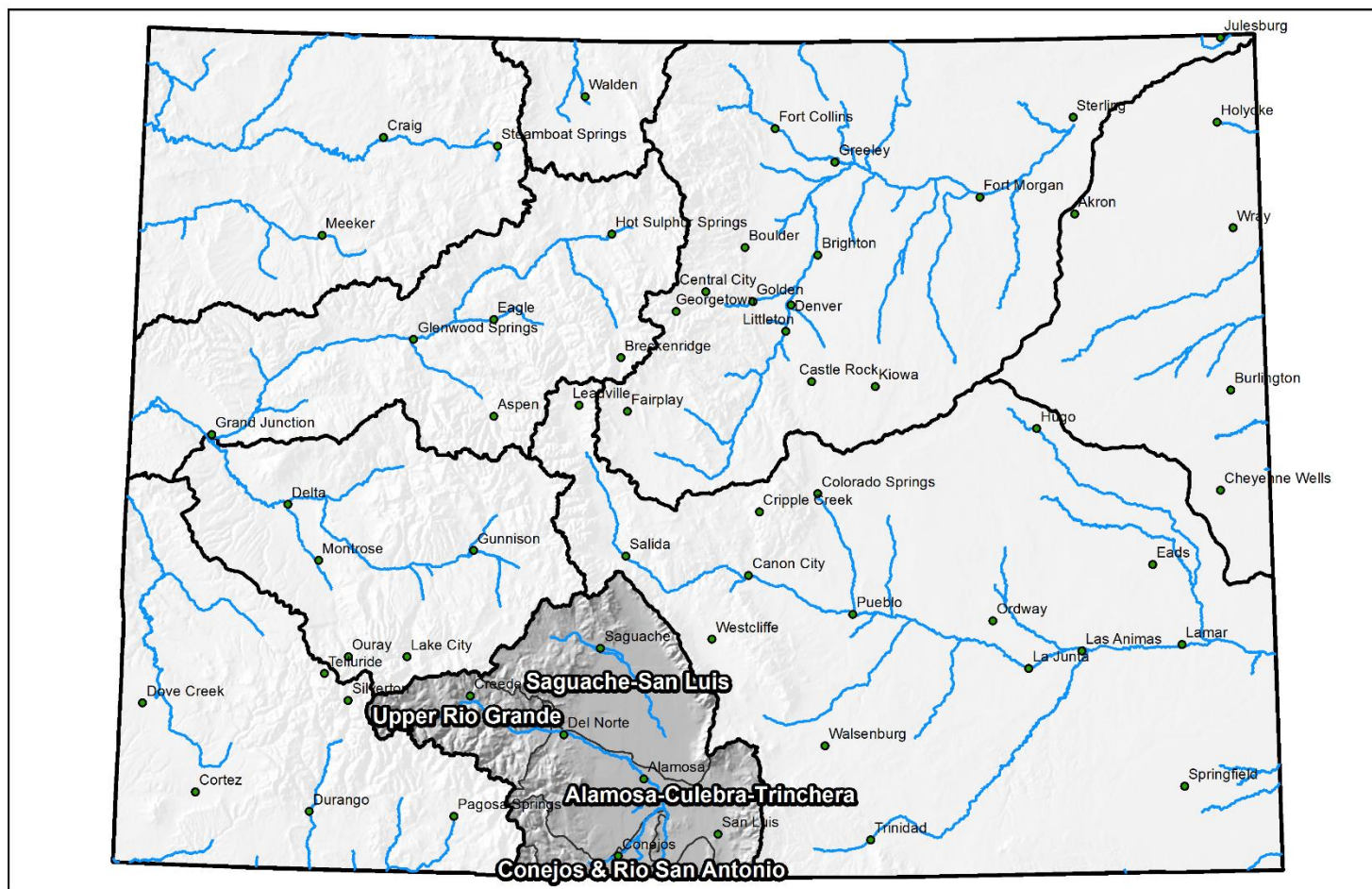
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

Reservoir Storage
Departure from Average



Major Basin Summary

Upper Rio Grande River Basin



0 25 50 100 150 200 Miles

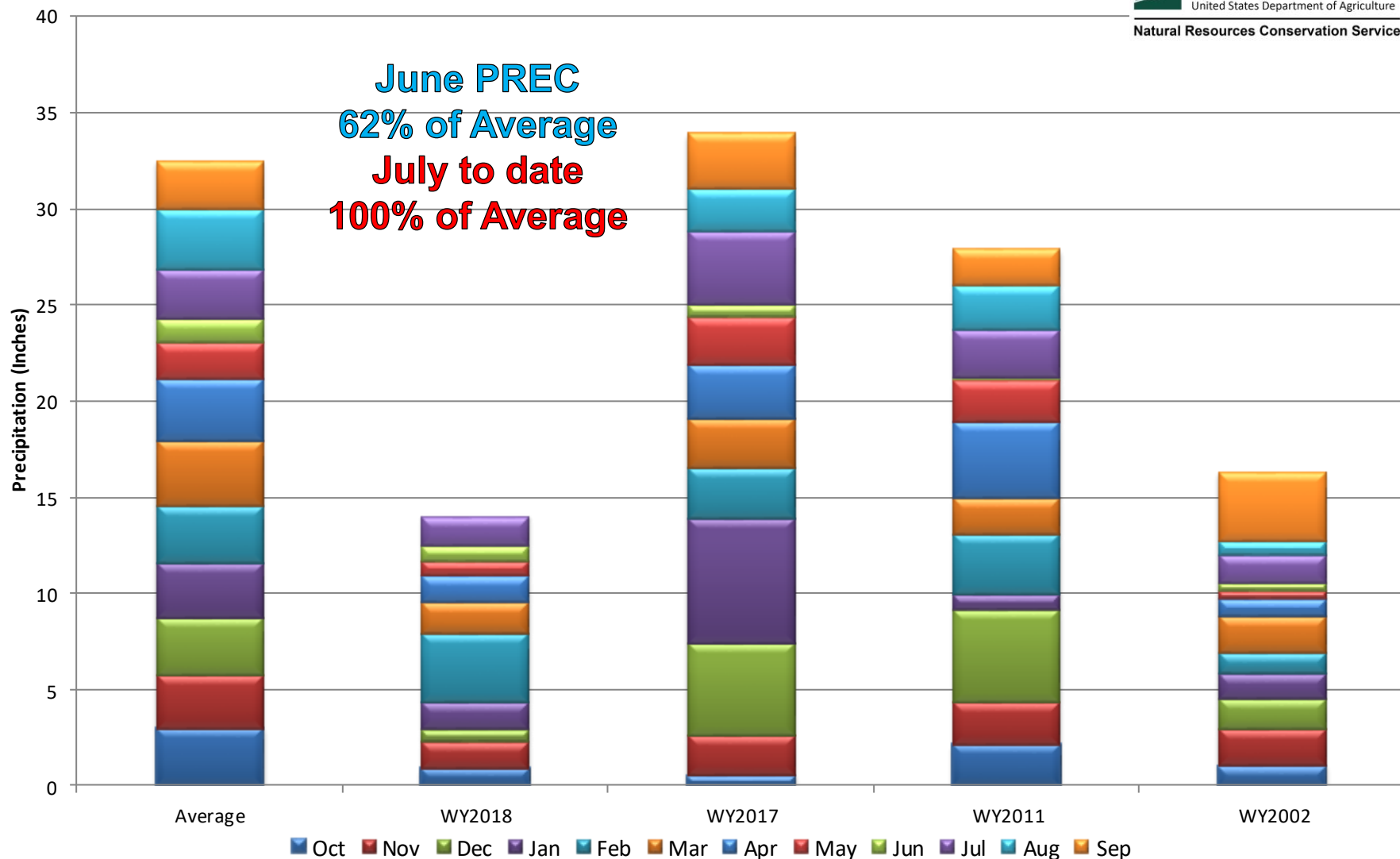
Upper Rio Grande River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 23, 2018



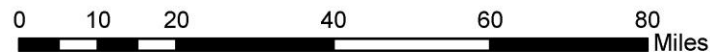
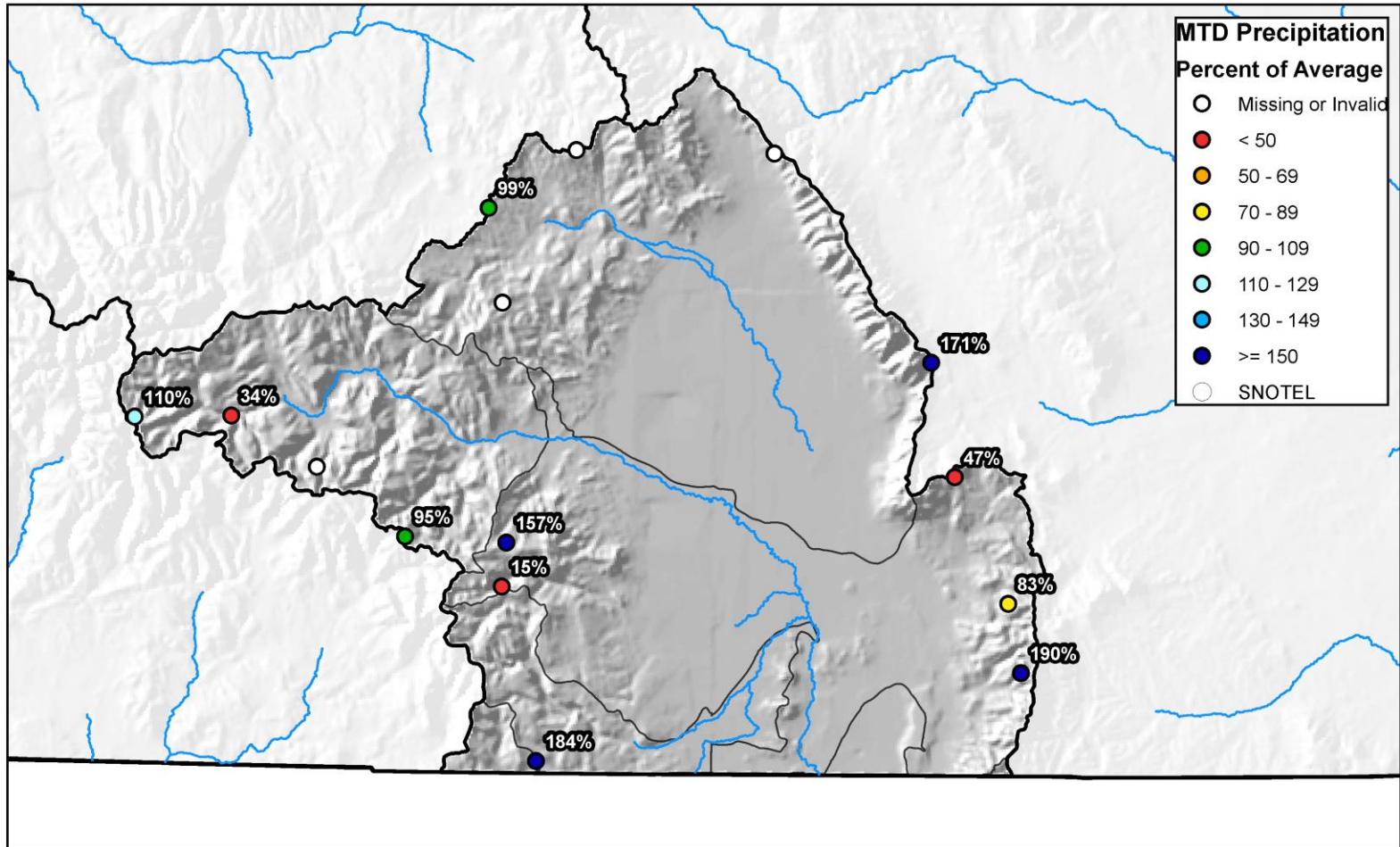
United States Department of Agriculture

Natural Resources Conservation Service



Upper Rio Grande River Basin Month to Date Precipitation Summary

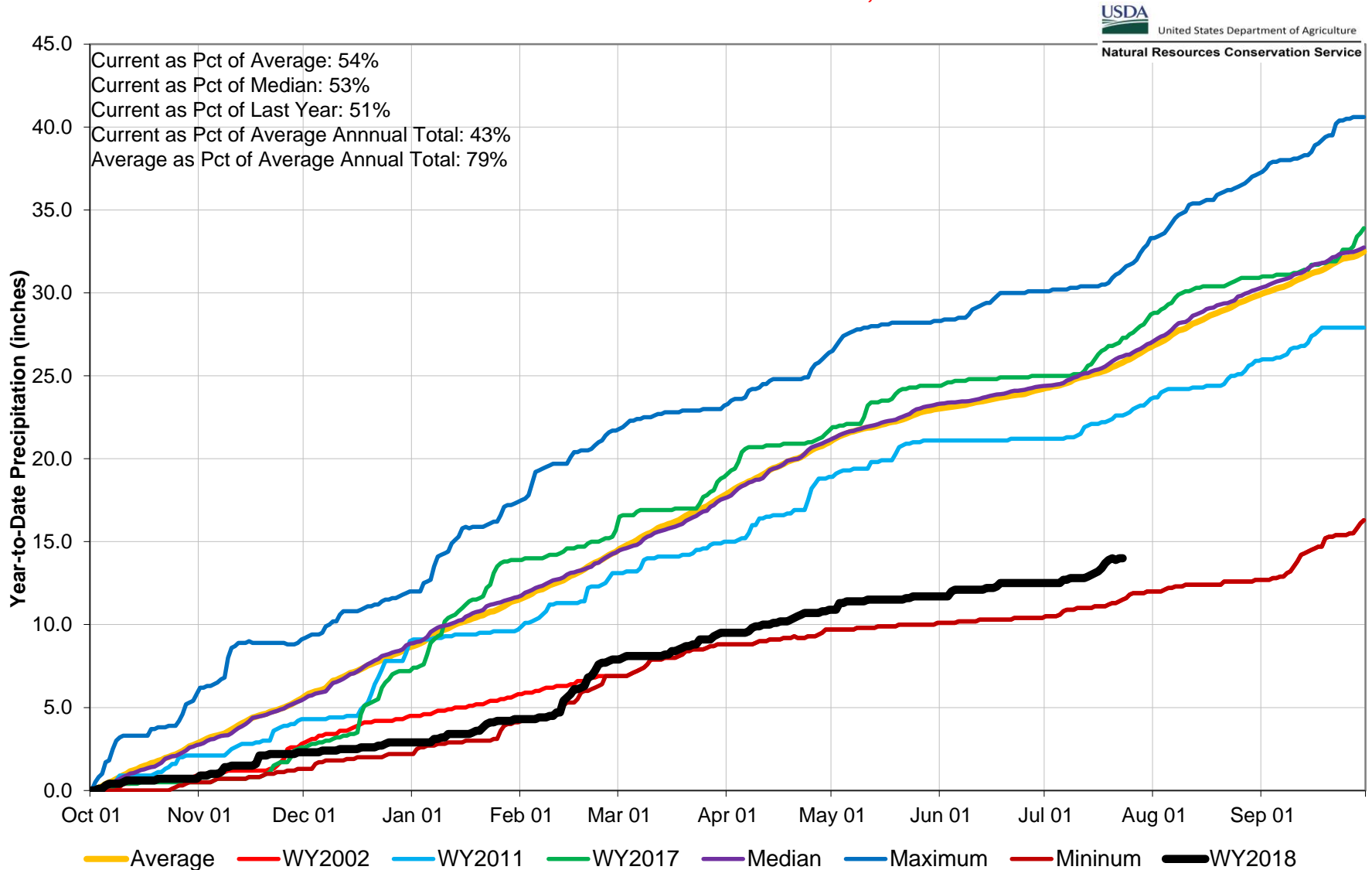
Current as of Jul 23, 2018





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

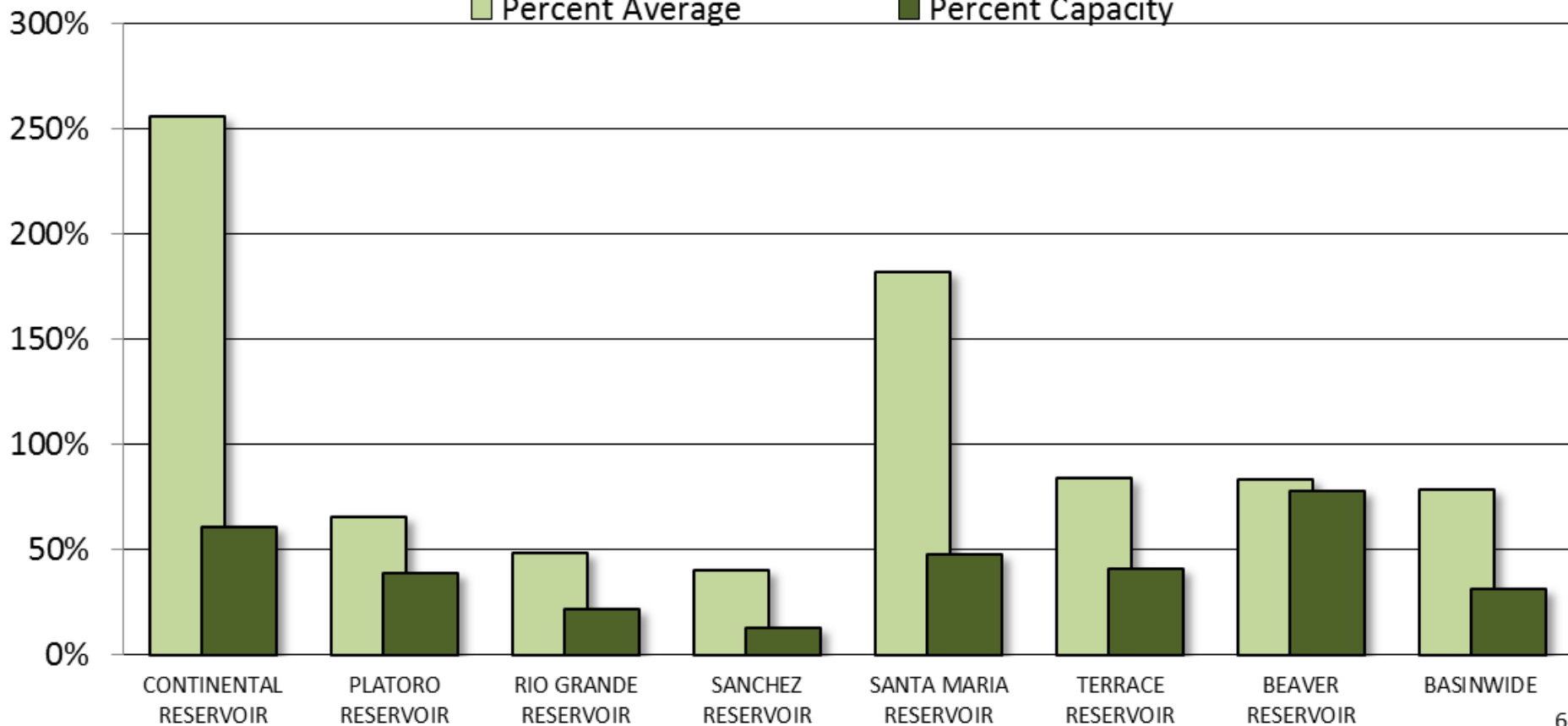
Based on Provisional SNOTEL data as of Jul 23, 2018



Reservoir Storage

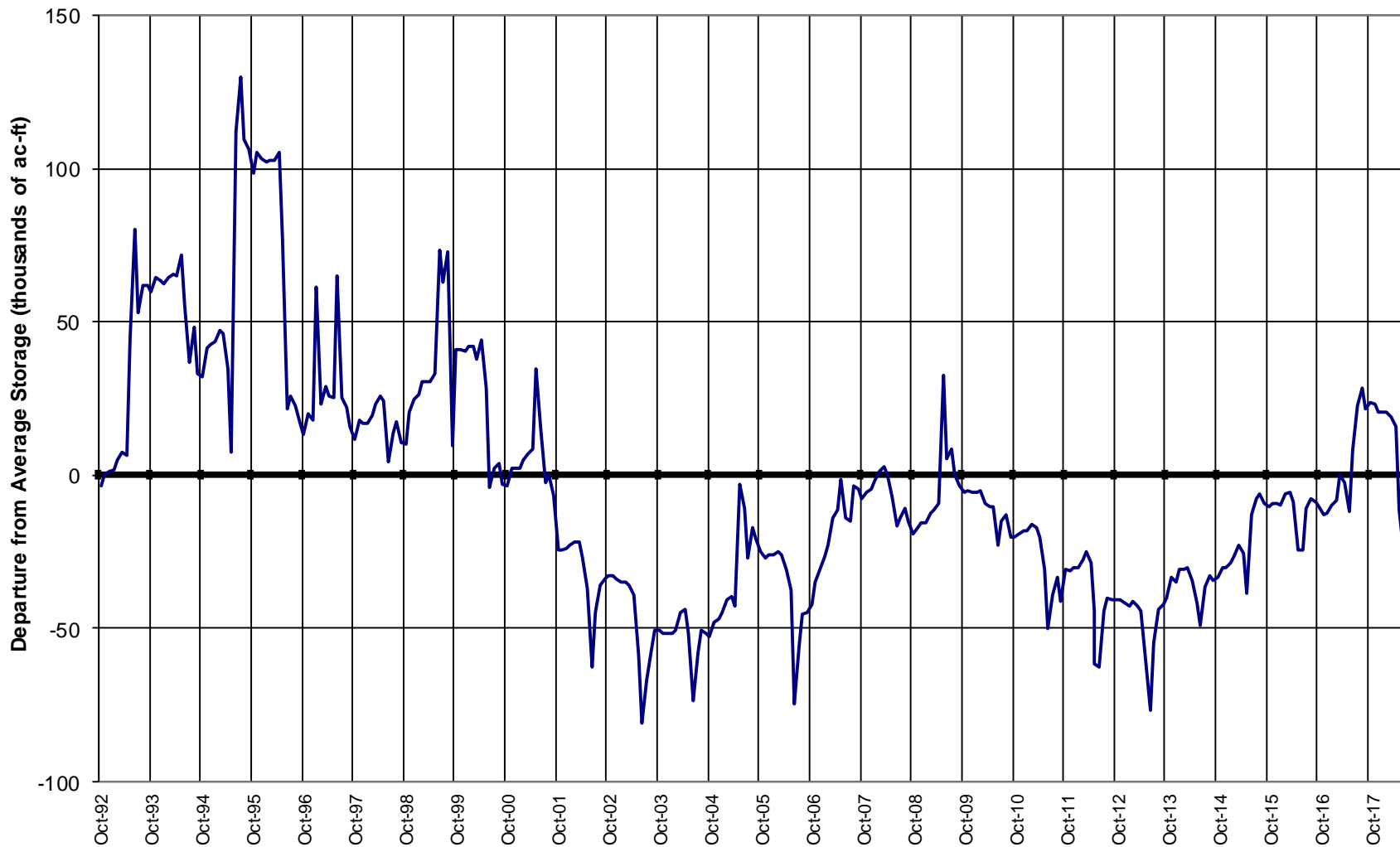
■ Percent Average

■ Percent Capacity



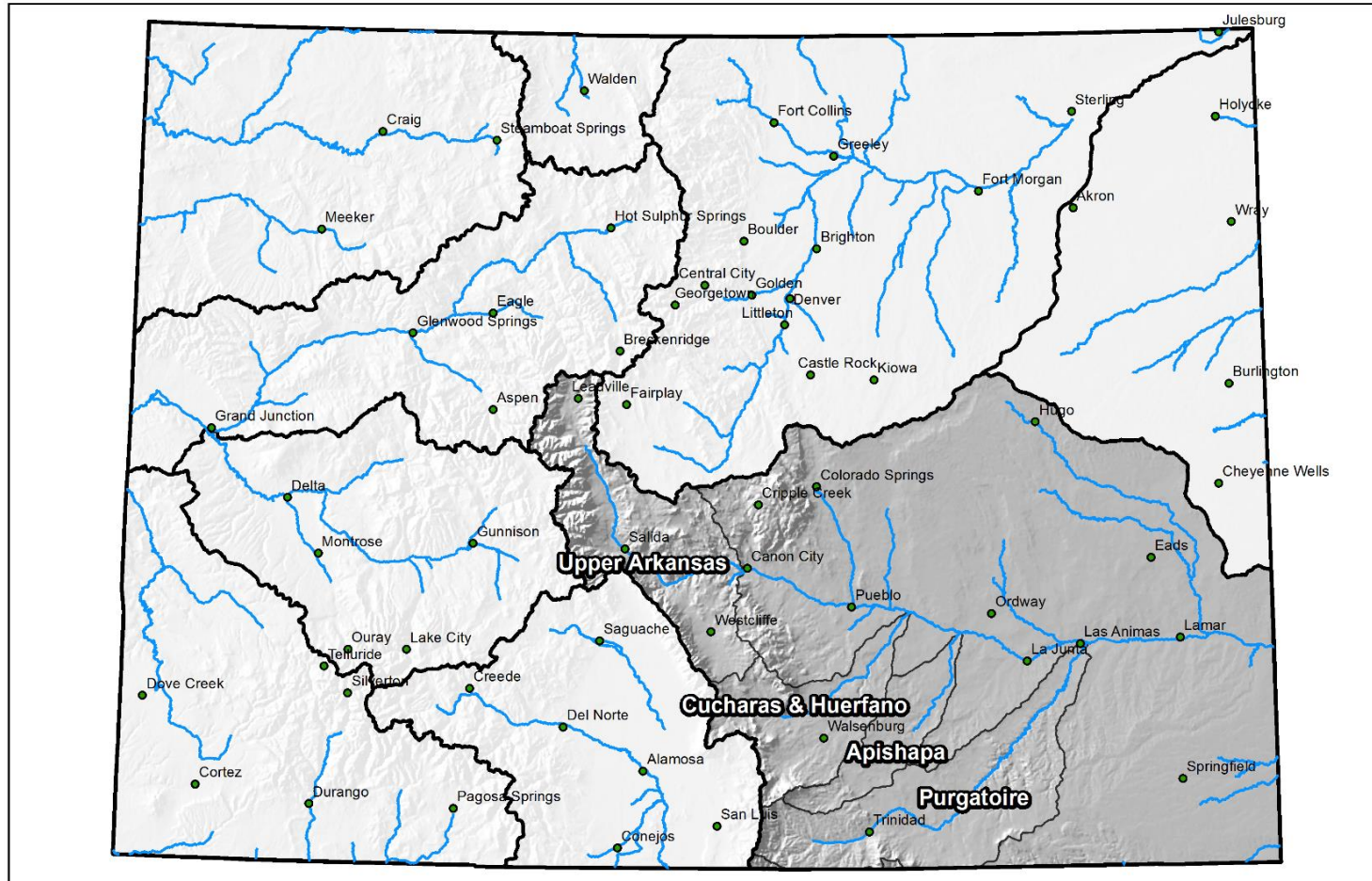


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



Major Basin Summary

Arkansas River Basin



0 25 50 100 150 200 Miles

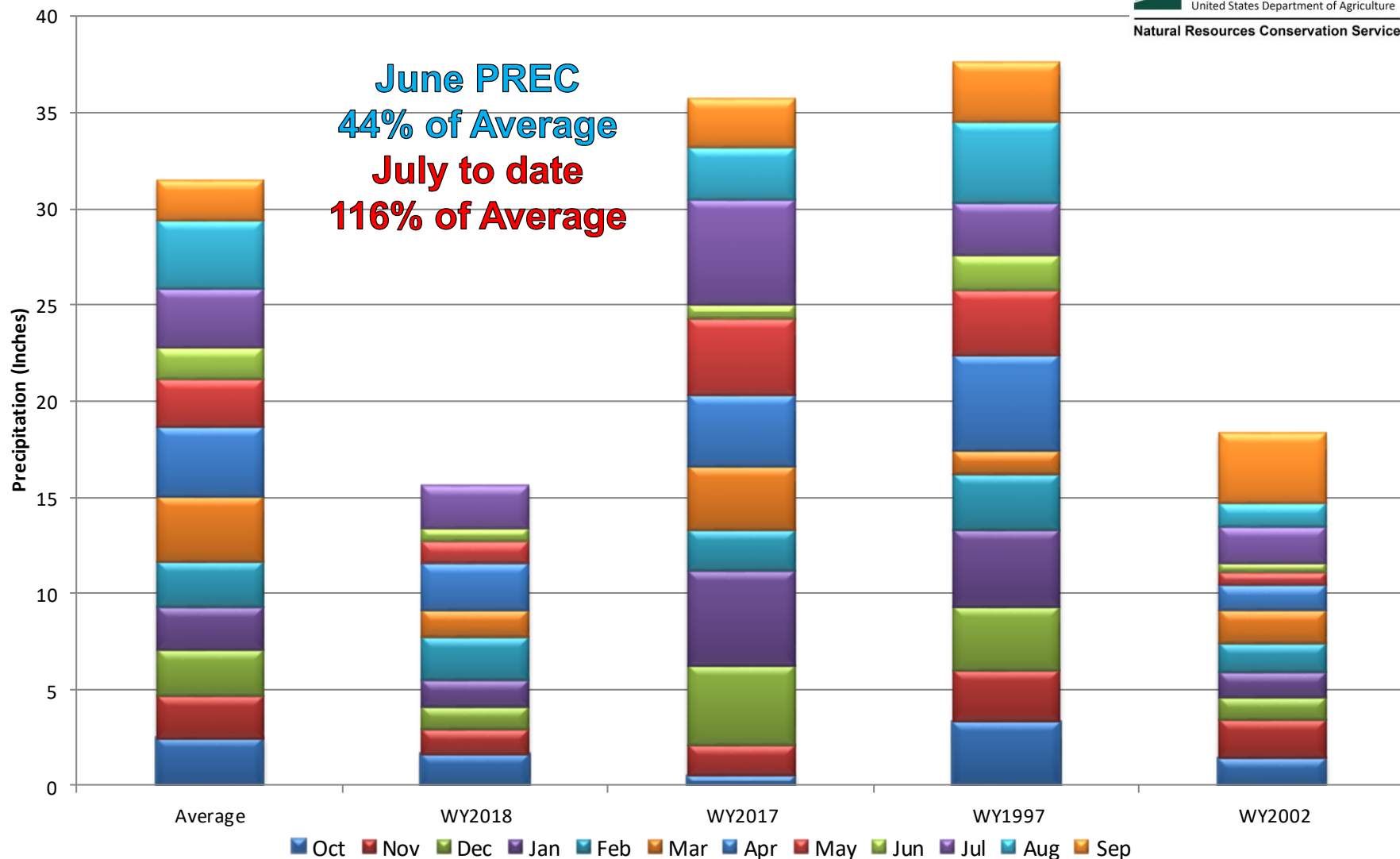
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 23, 2018



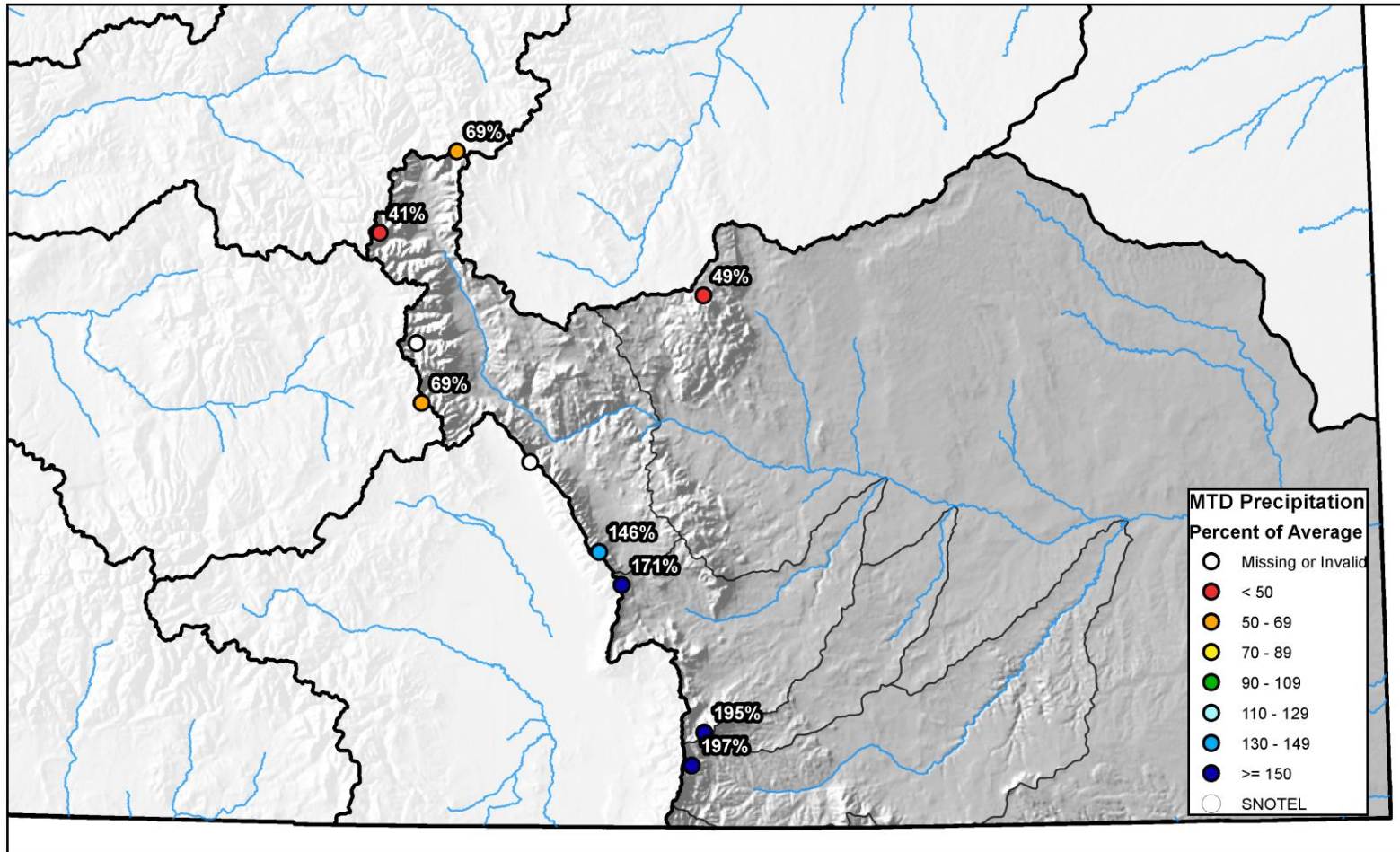
United States Department of Agriculture

Natural Resources Conservation Service



Arkansas River Basin Month to Date Precipitation Summary

Current as of Jul 23, 2018



0 10 20 40 60 80 Miles



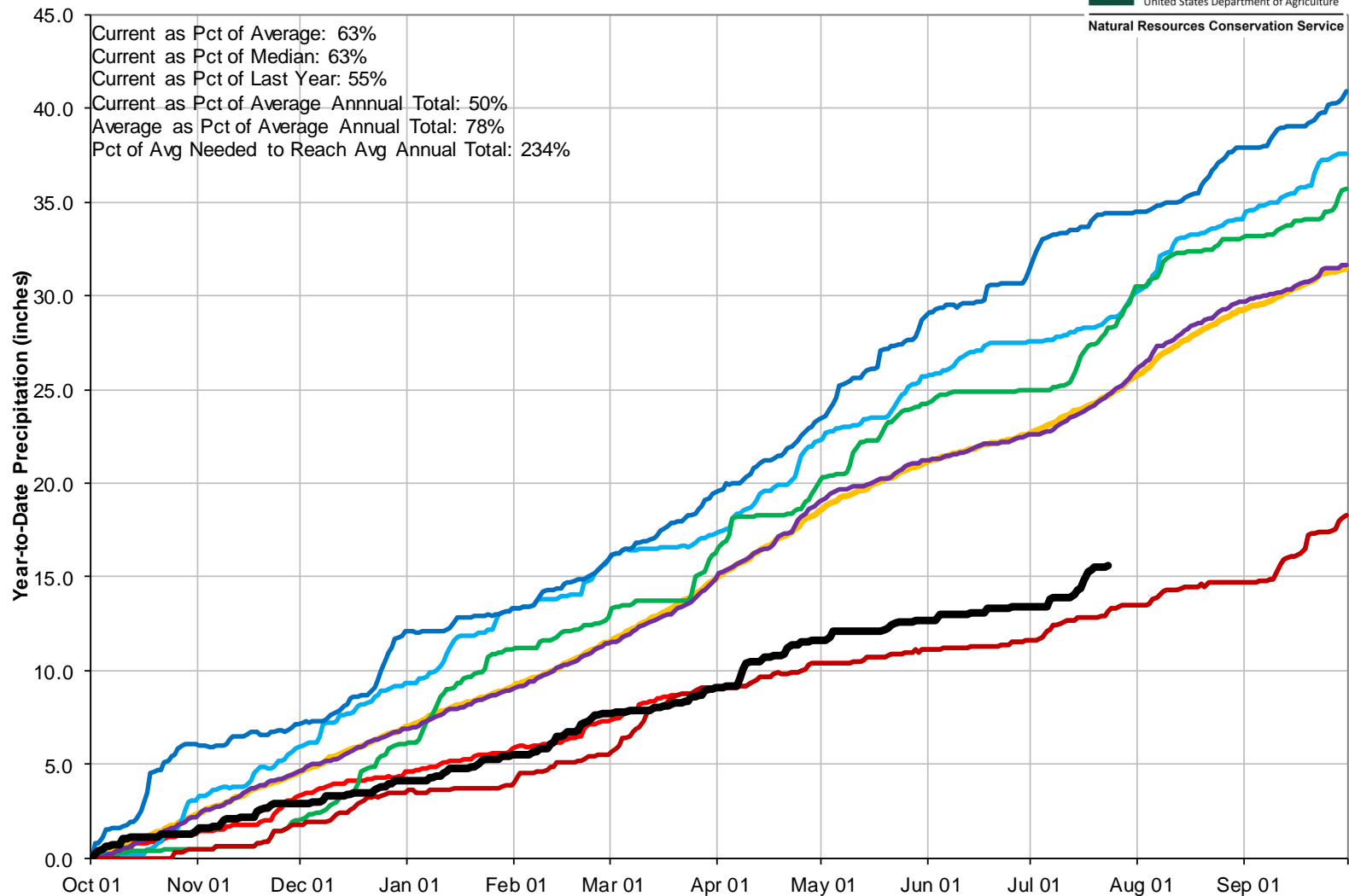
Arkansas River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 23, 2018



United States Department of Agriculture

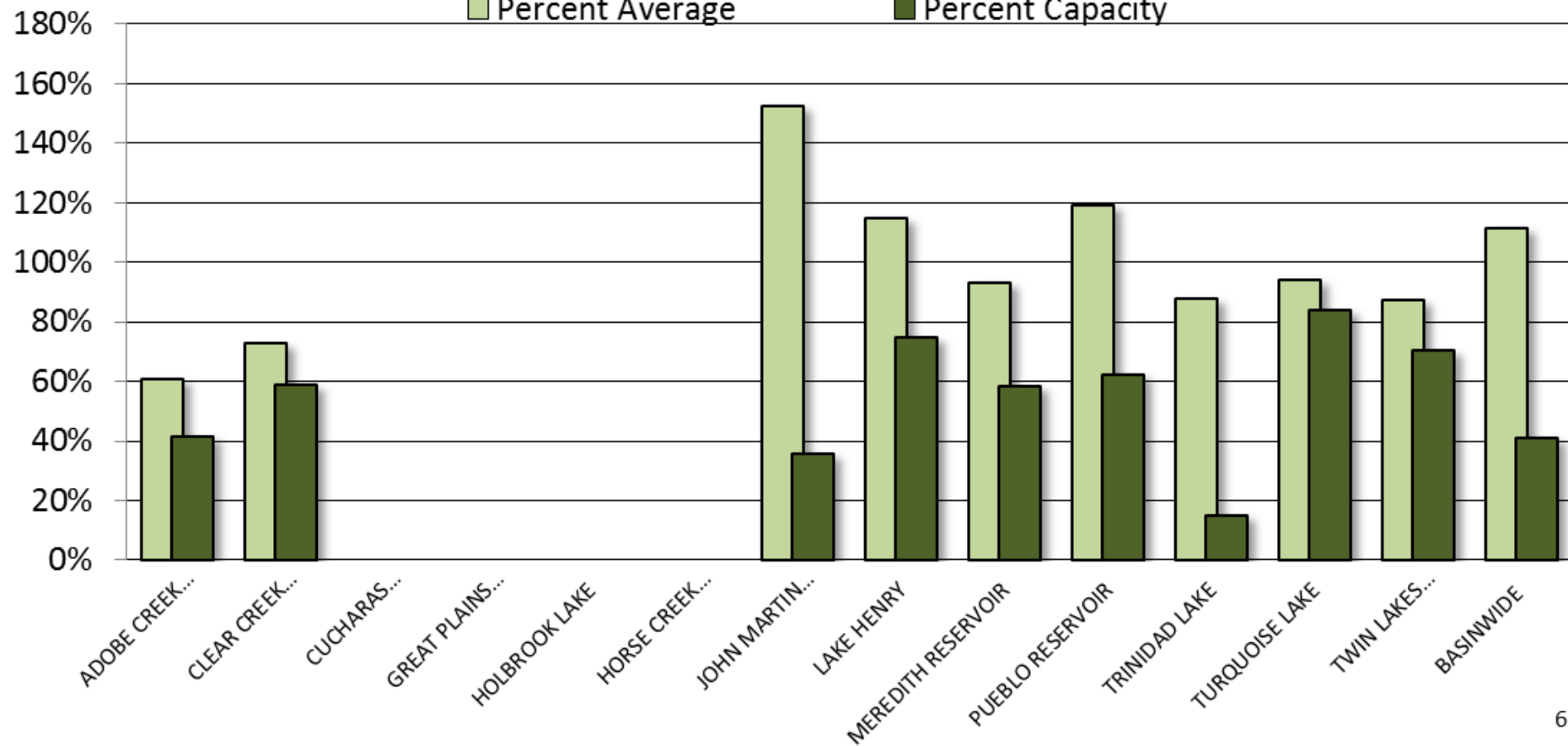
Natural Resources Conservation Service



Reservoir Storage

■ Percent Average

■ Percent Capacity





ARKANSAS RIVER BASIN

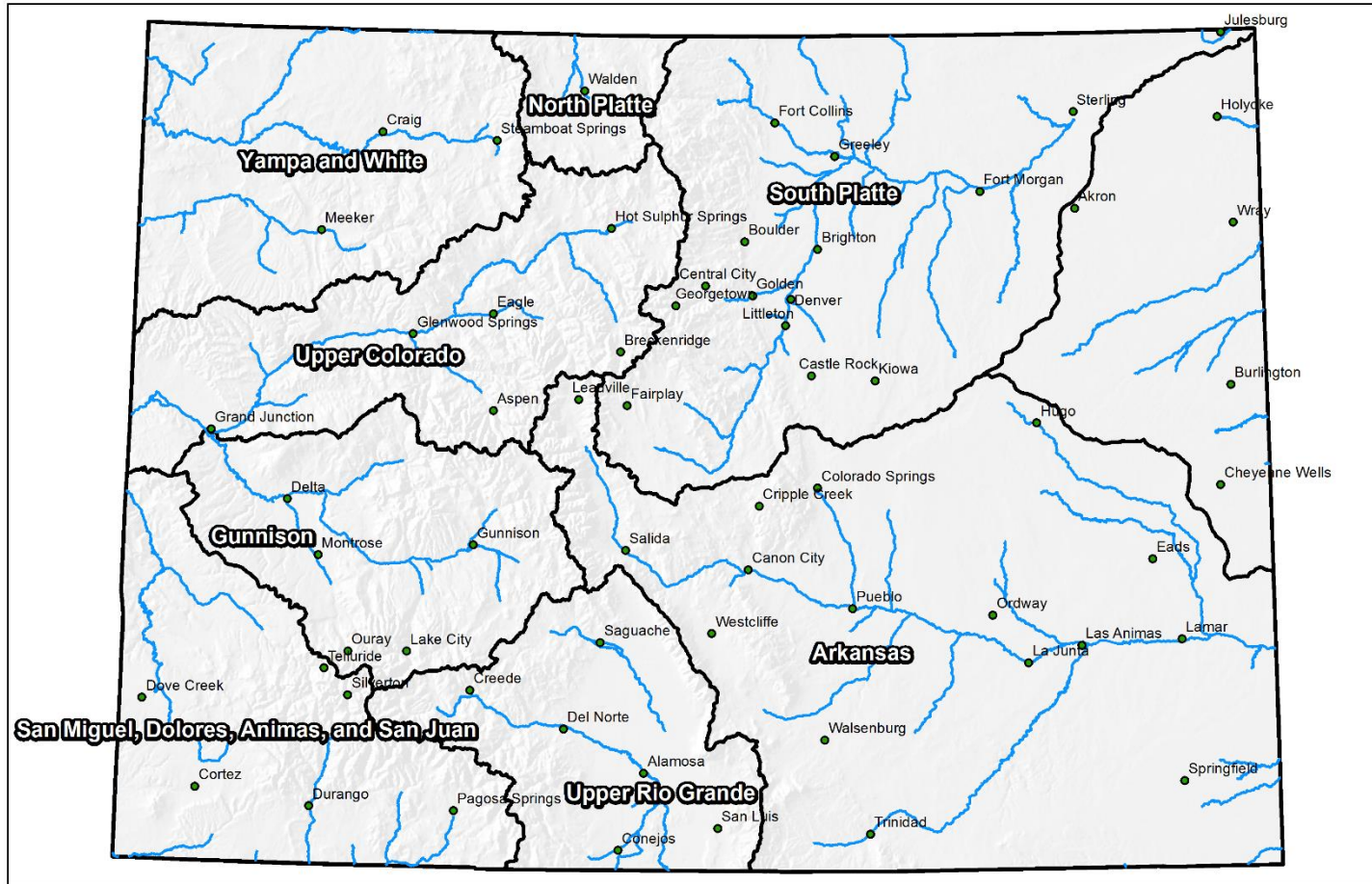
Reservoir Storage

Departure from Average

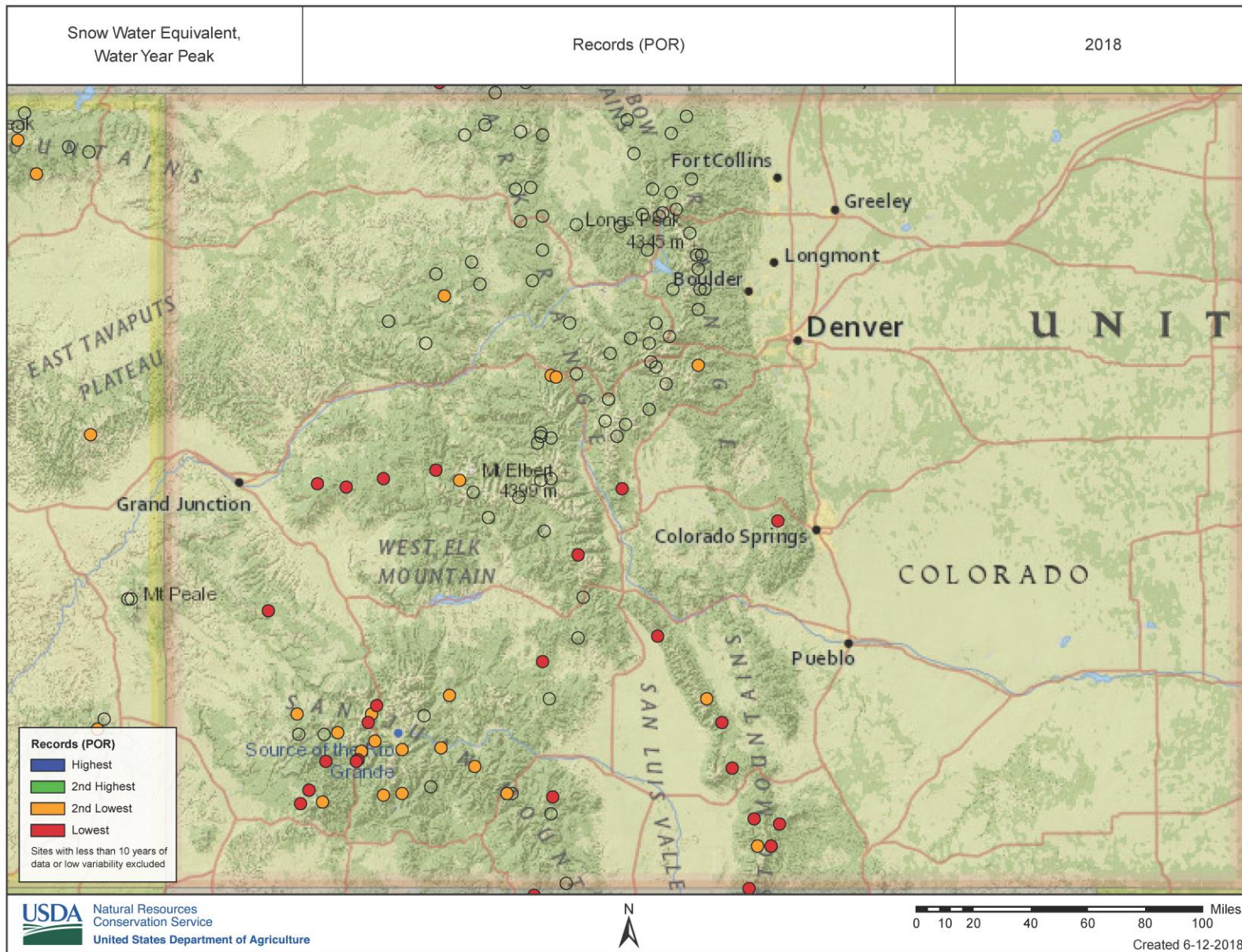


Colorado Statewide Summary

Colorado Major Basins



0 25 50 100 150 200 Miles



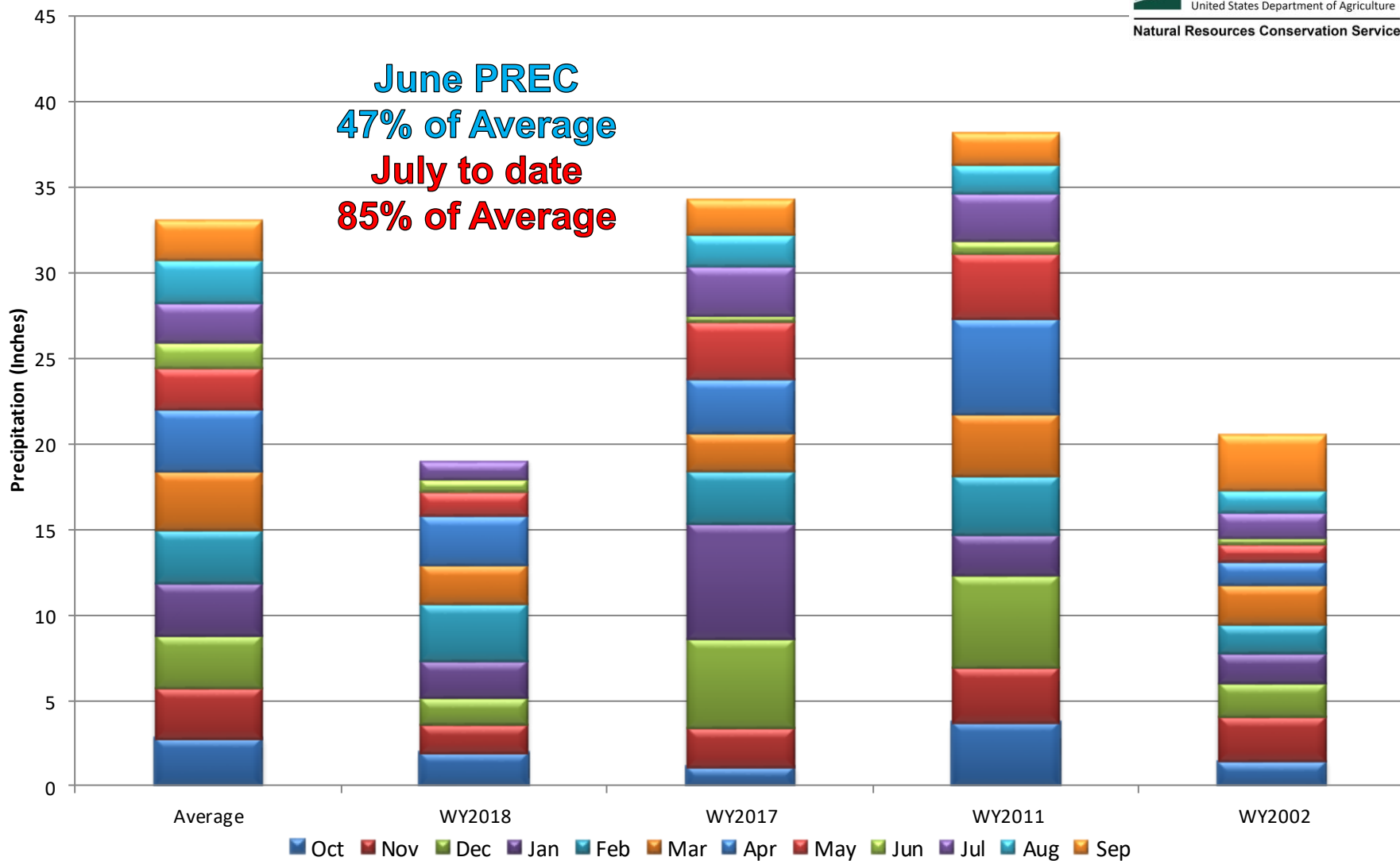
Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jul 23, 2018



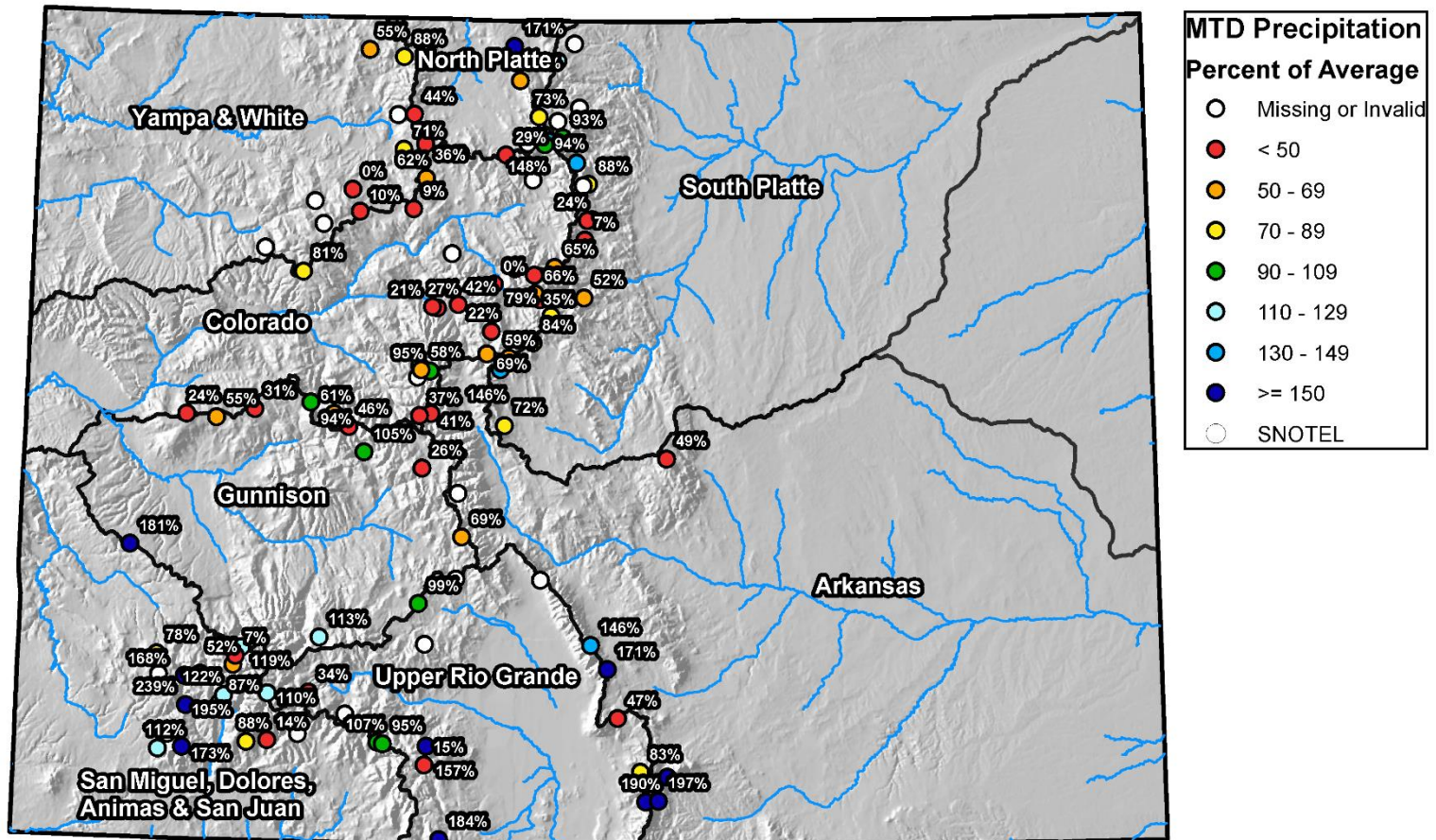
United States Department of Agriculture

Natural Resources Conservation Service



Colorado SNOTEL Month-to-Date Precipitation

Current as of Jul 23, 2018



0 25 50 100 150 200 Miles

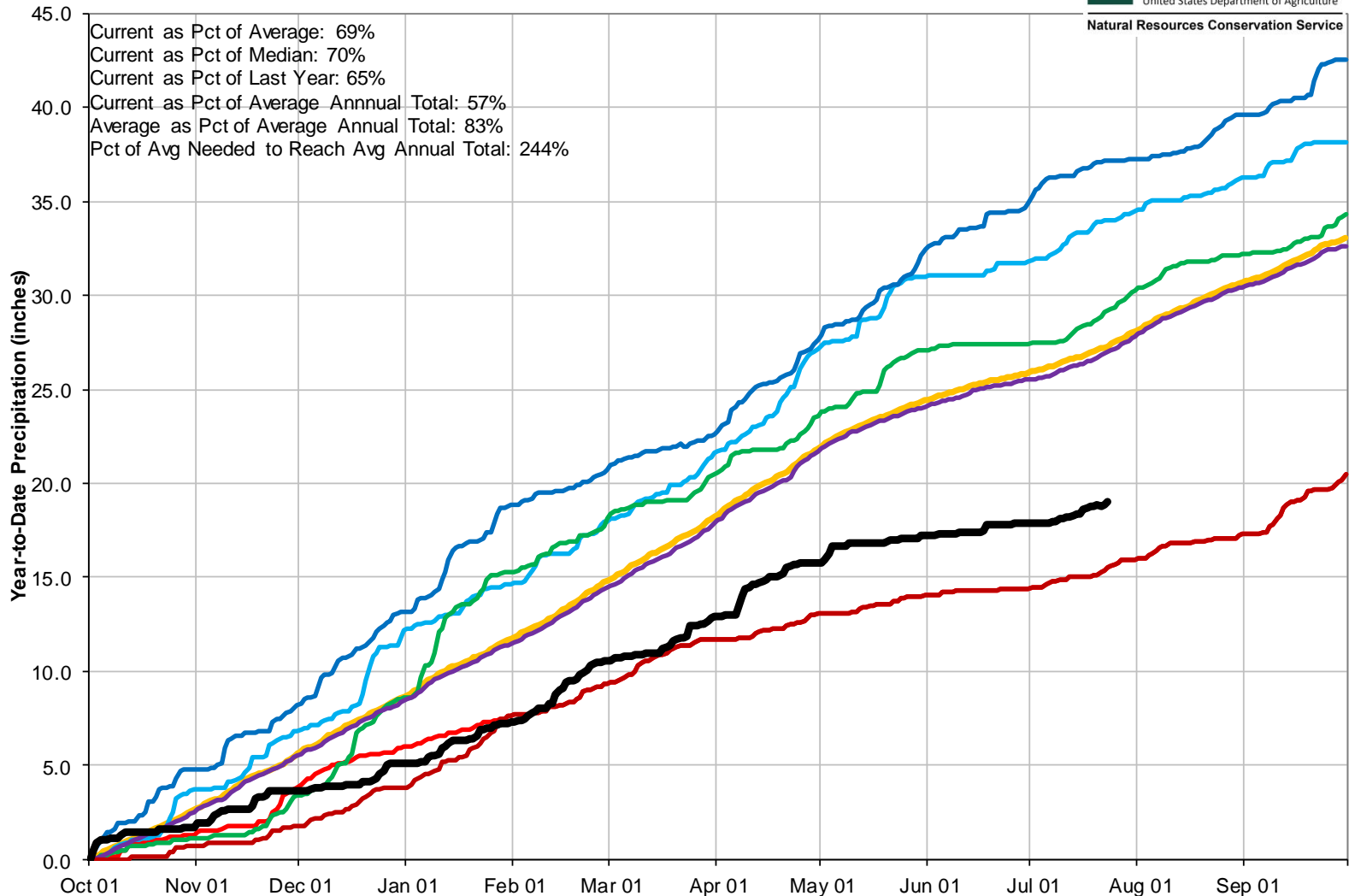
Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jul 23, 2018



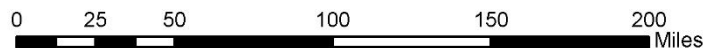
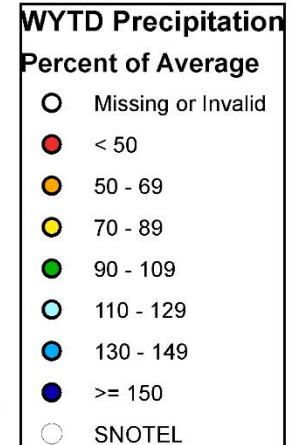
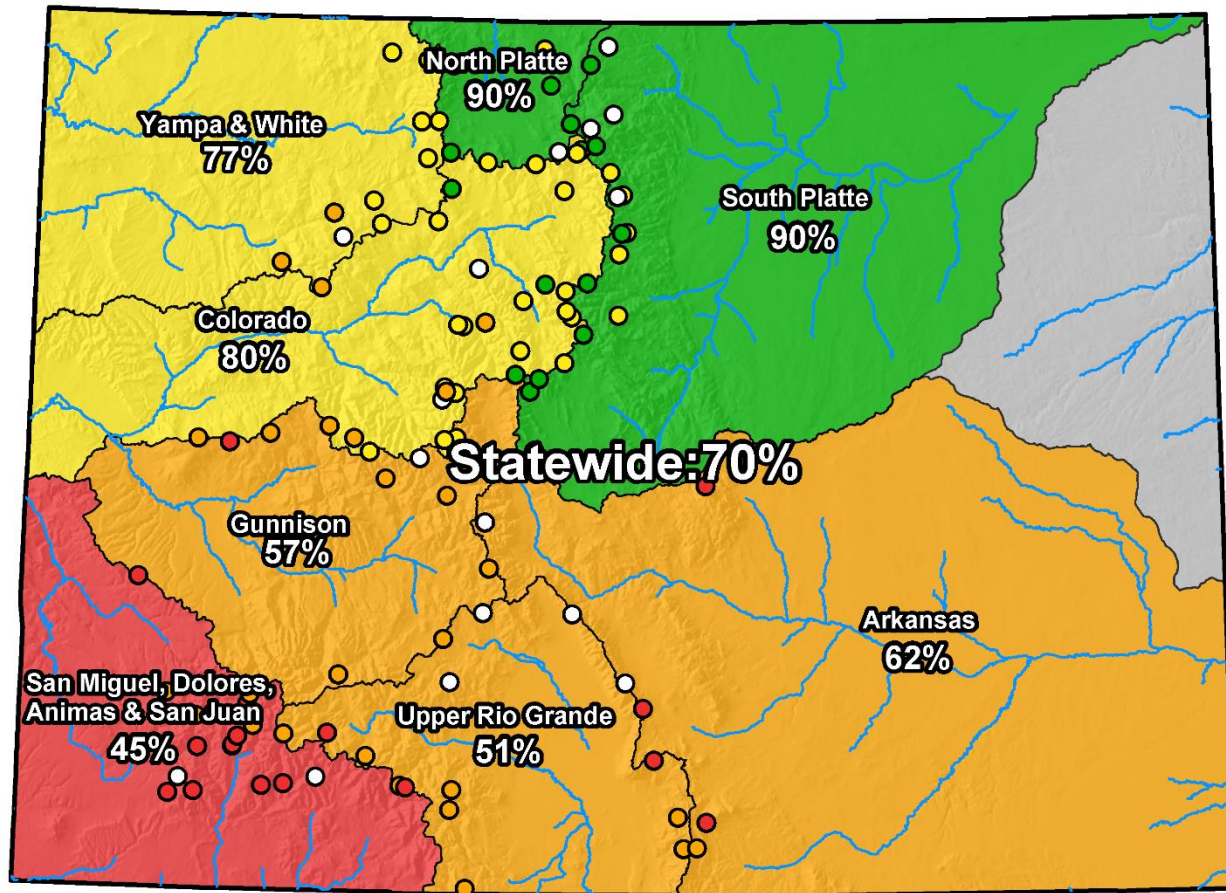
United States Department of Agriculture

Natural Resources Conservation Service



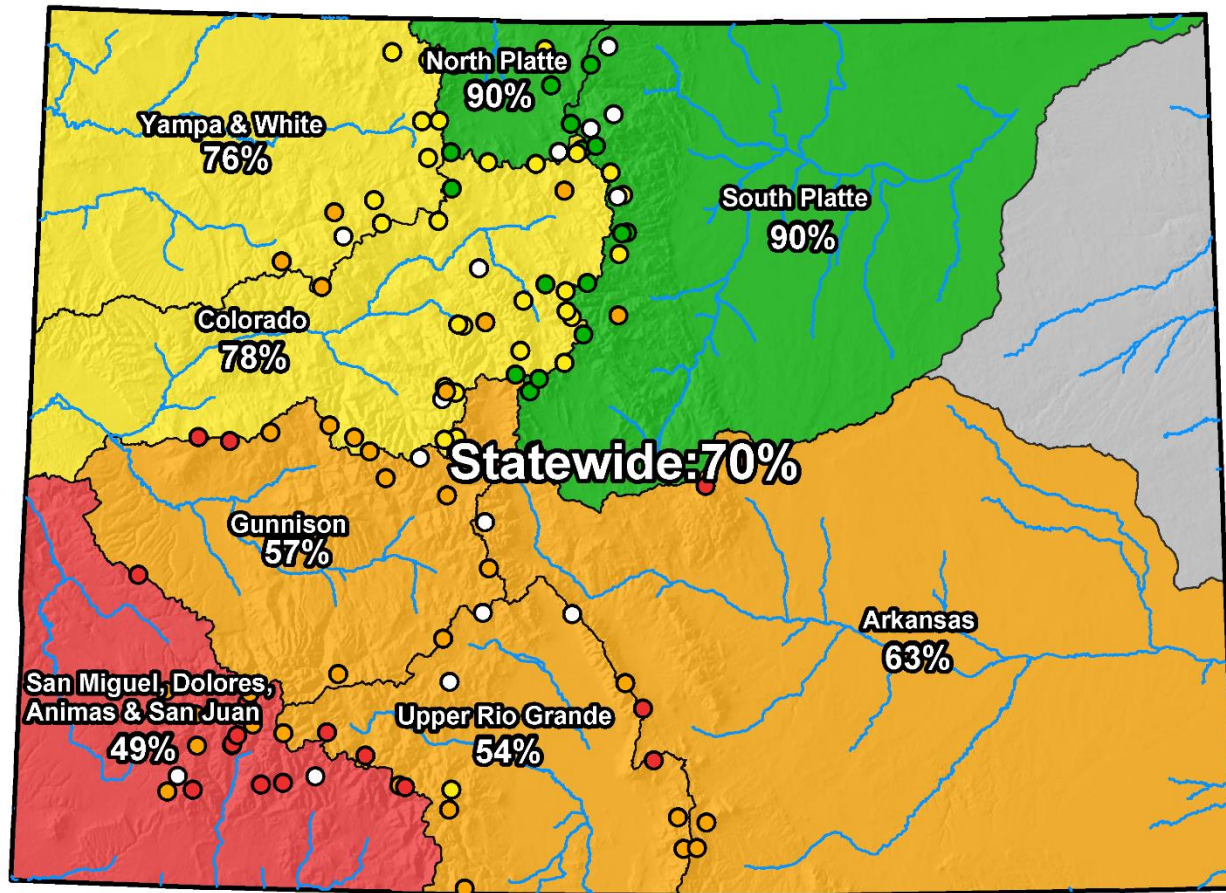
Colorado SNOTEL Water Year to Date Precipitation

Current as of Jun 12, 2018



Colorado SNOTEL Water Year to Date Precipitation

Current as of Jul 23, 2018



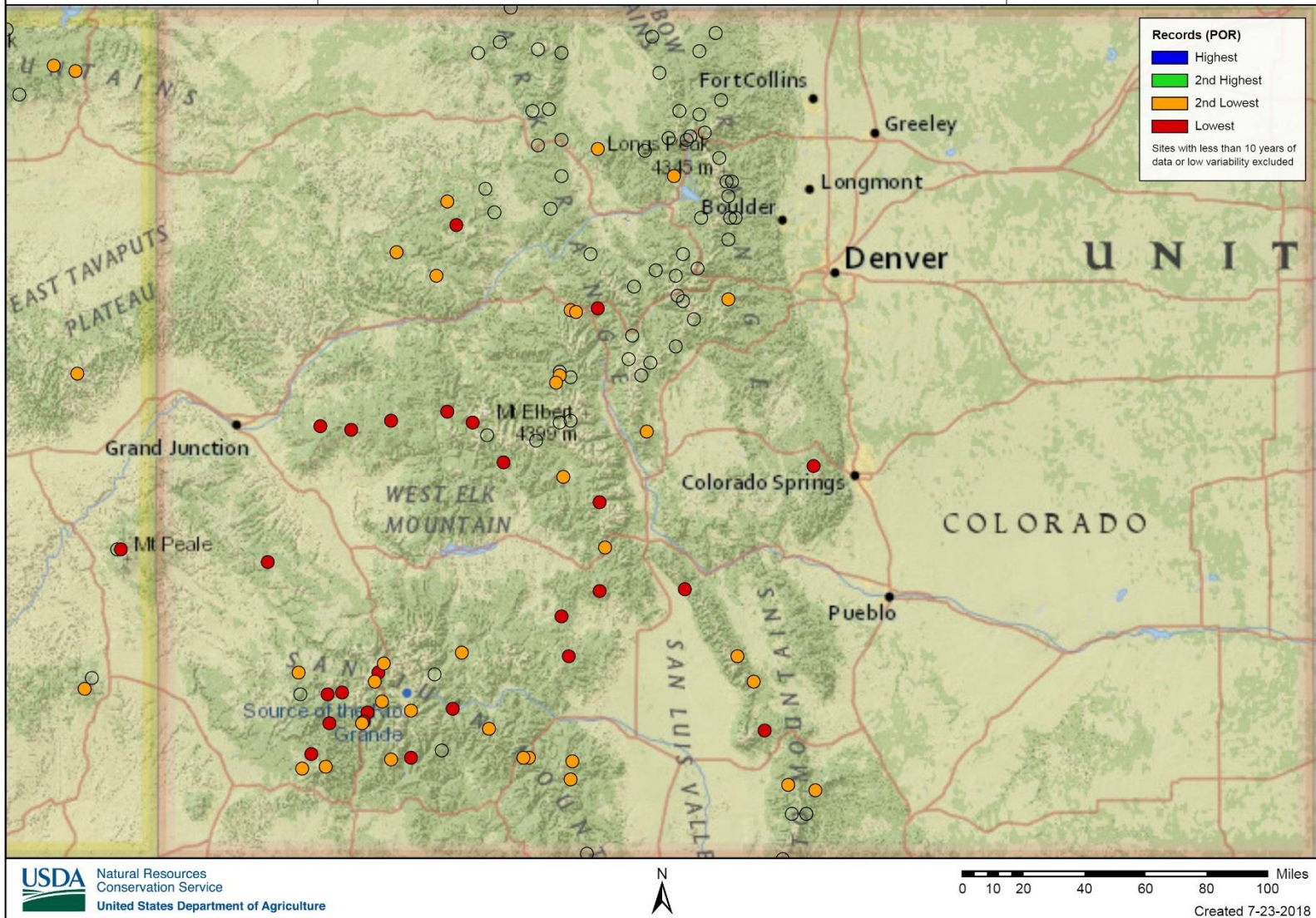
0 25 50 100 150 200 Miles

Colorado Snow Surveys

Water Year to Date Precipitation

Records (POR)

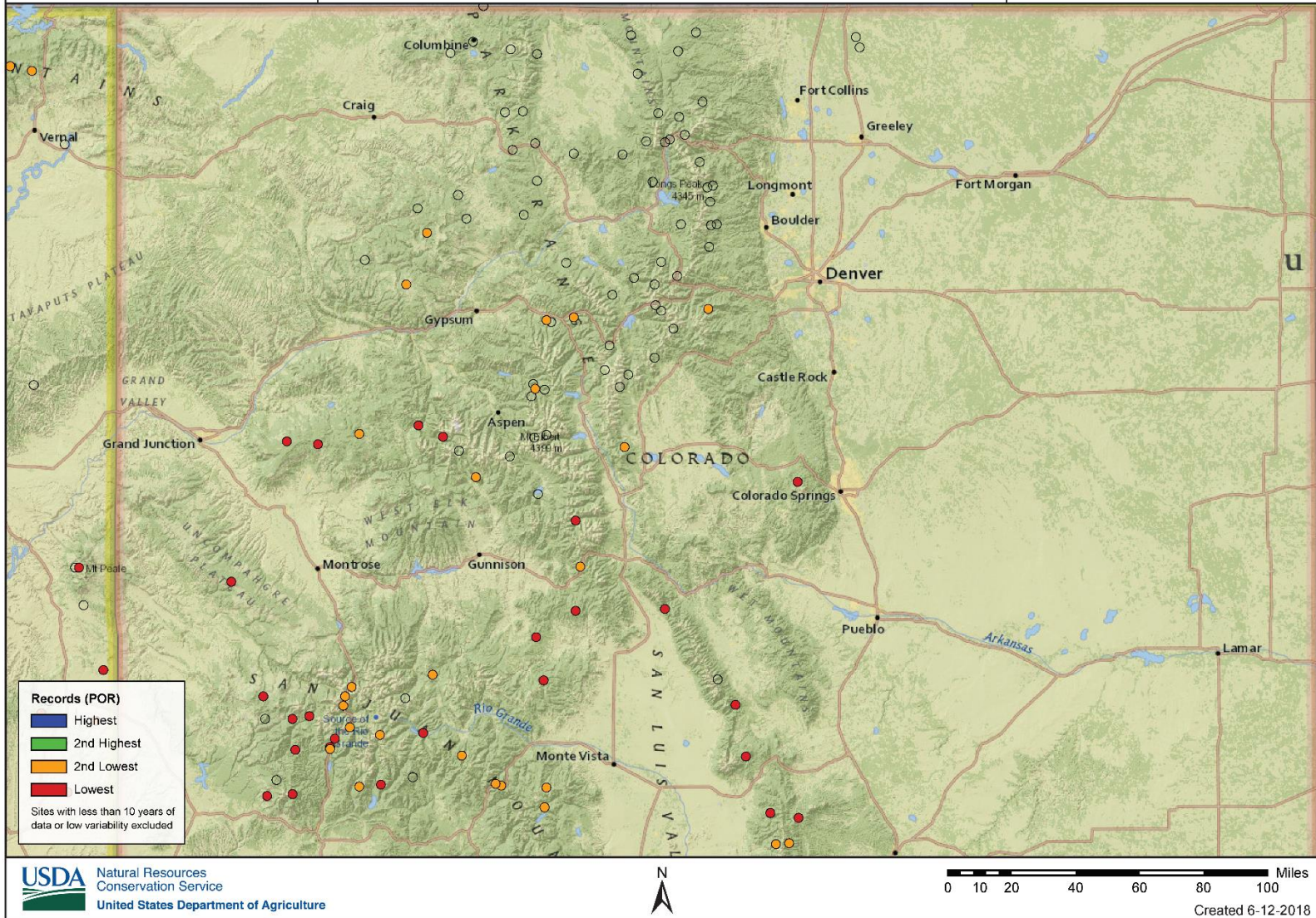
October 1, 2017 - July 22, 2018



Water Year to Date Precipitation

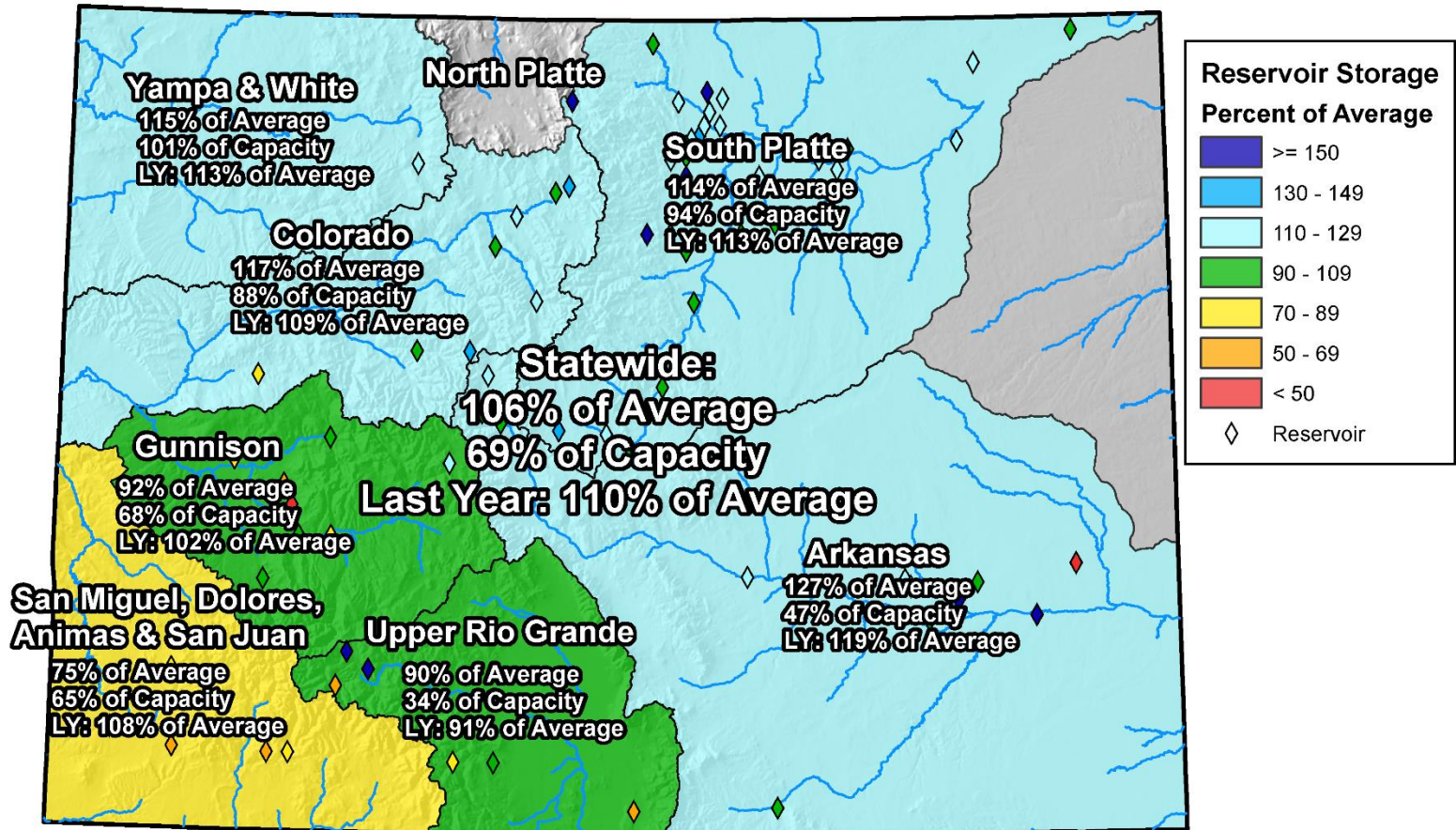
Records (POR)

October 1, 2017 - June 11, 2018



Colorado Monthly Reservoir Storage Summary

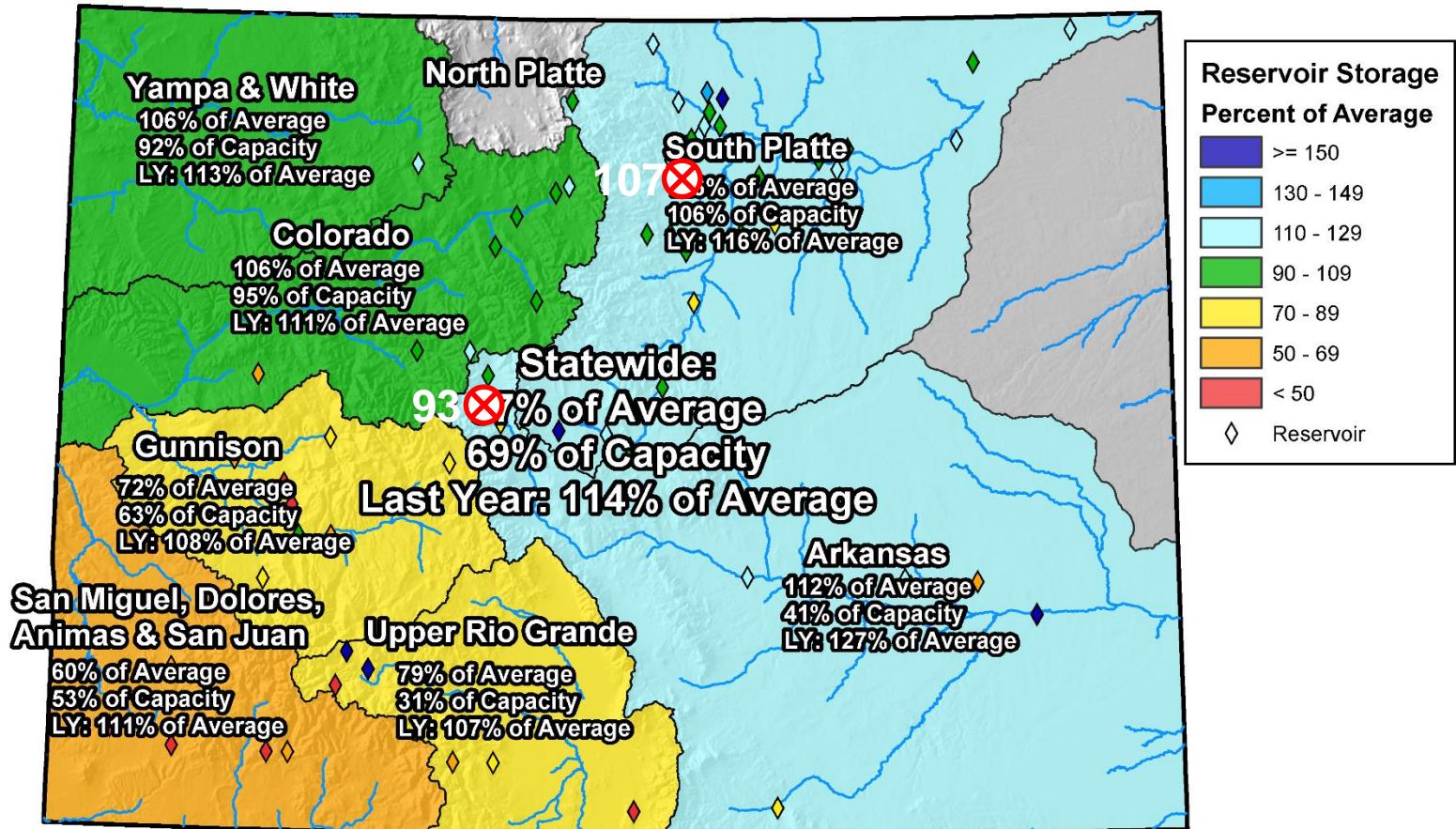
End of May 2018



0 25 50 100 150 200 Miles

Colorado Monthly Reservoir Storage Summary

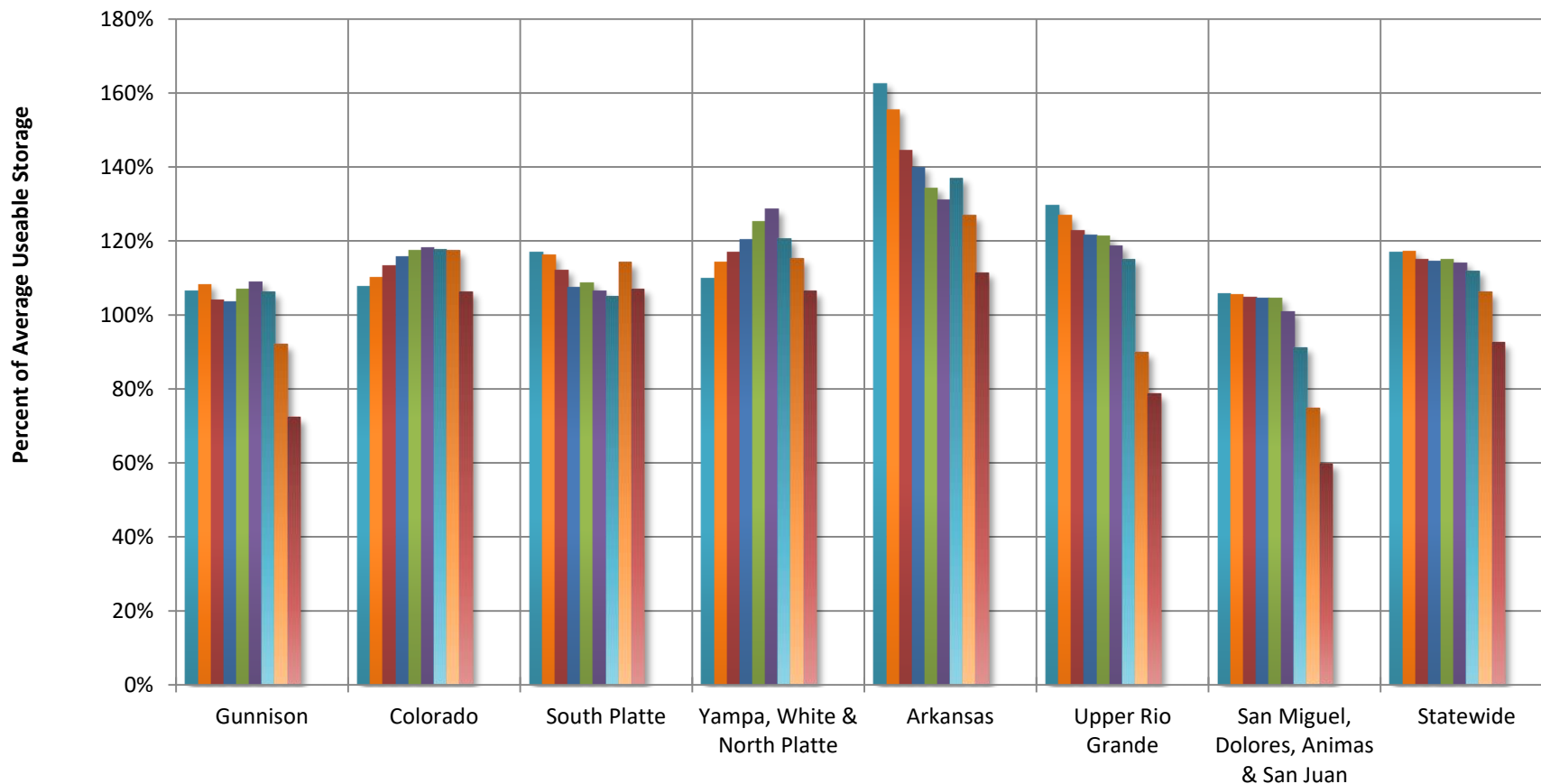
End of June 2018



0 25 50 100 150 200 Miles

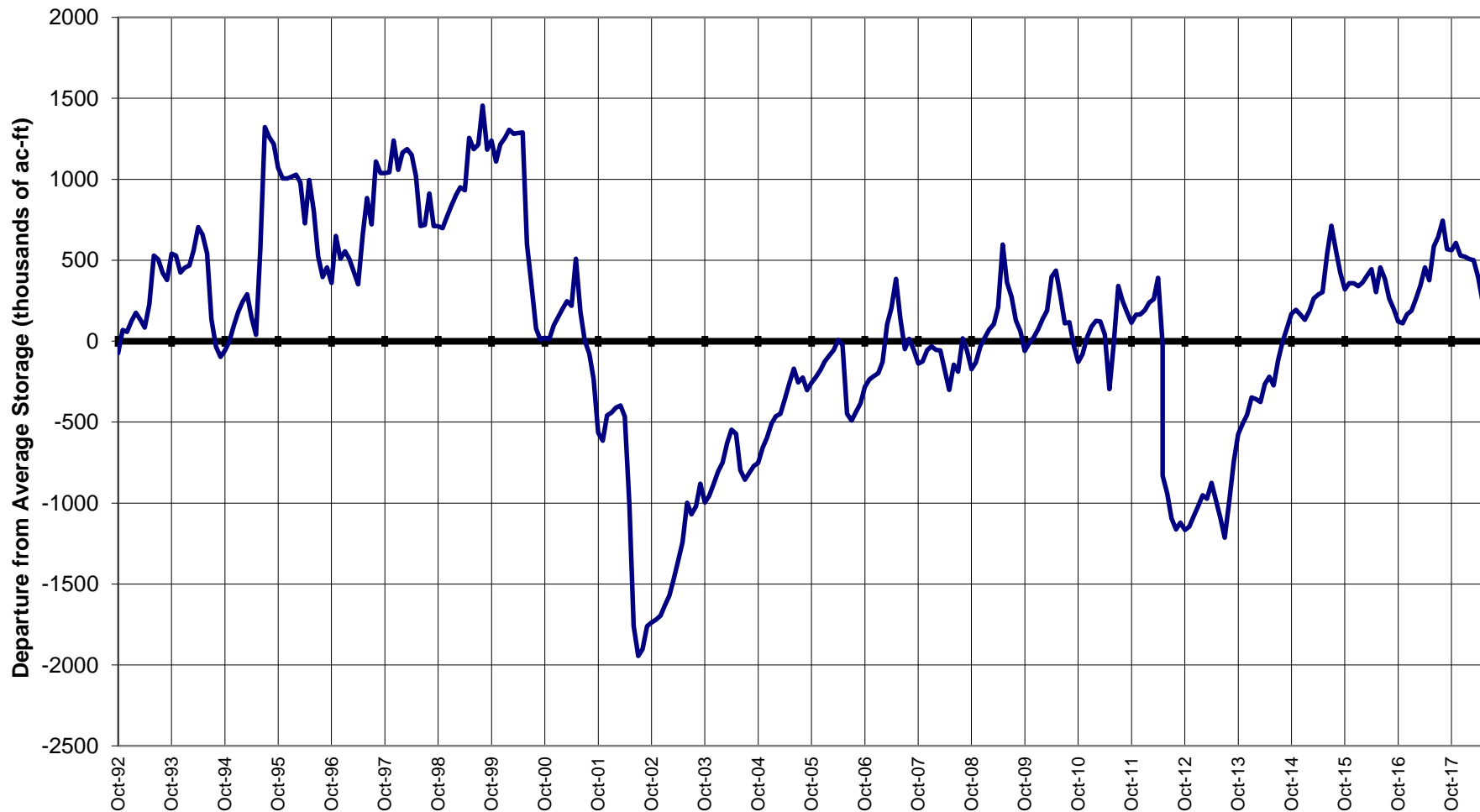
Colorado Reservoir Storage

Oct-17 Nov-17 Dec-17 Jan-18 Feb-18 Mar-18
 Apr-18 May-18 Jun-18 Jul-18 Aug-18 Sep-18

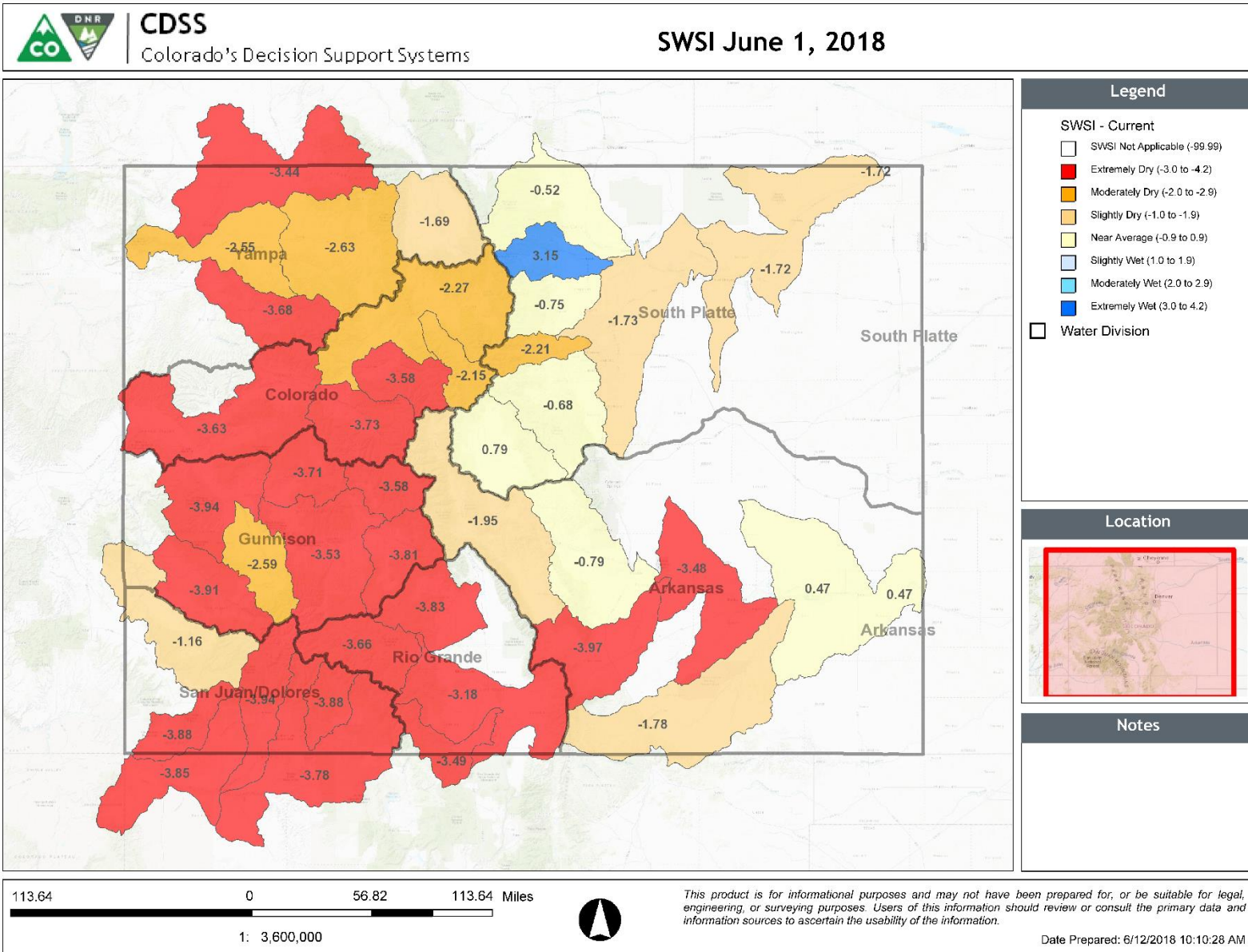




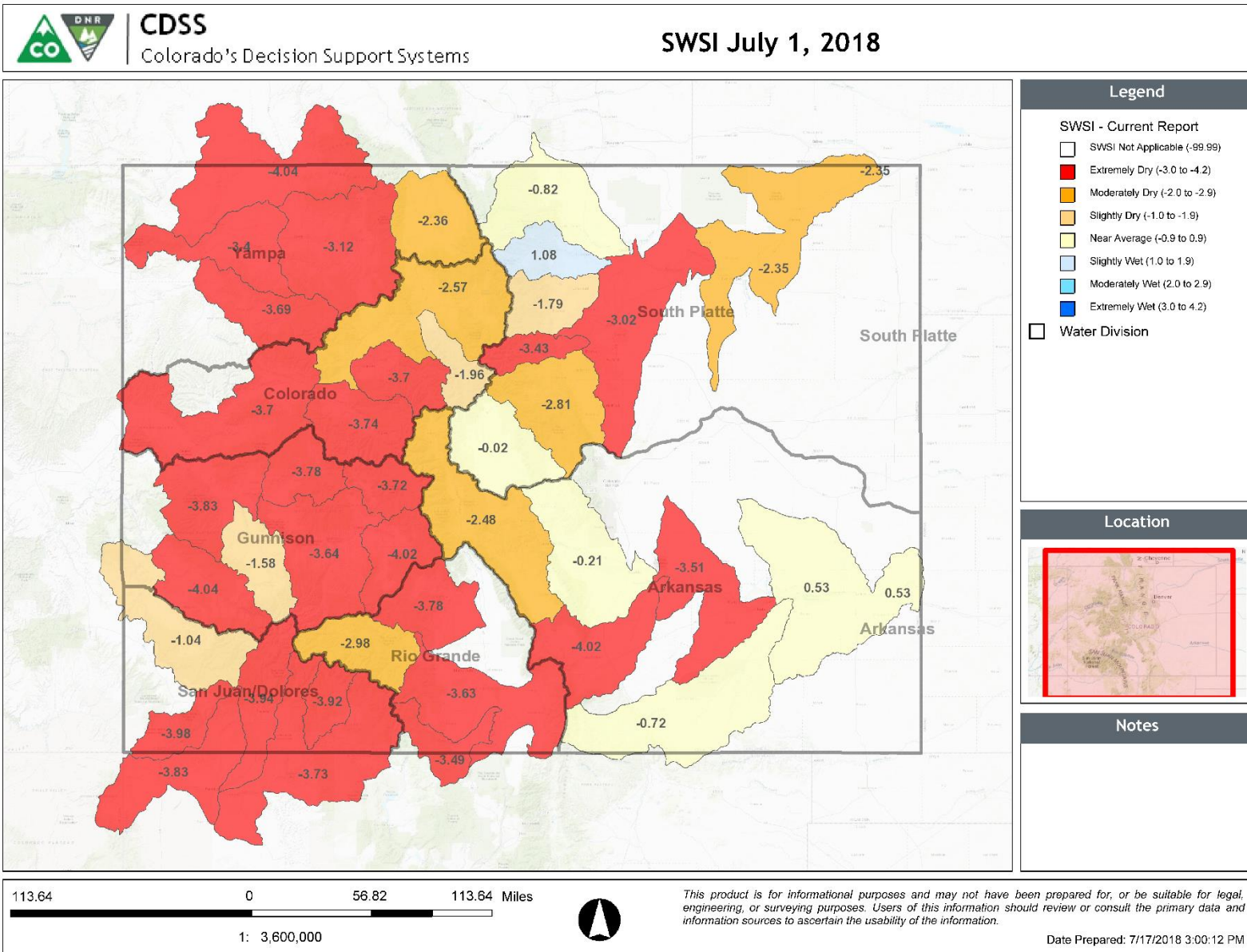
COLORADO STATEWIDE Reservoir Storage Departure from Average



June 1, 2018 SWSI



July 1, 2018 SWSI



Summary

- Snowpack was record low in the Gunnison and second lowest on record in the SW CO & Rio Grande. Better in the rest of the state.
- June precipitation was 47% of normal
- July precipitation so far - 85% of normal
- Monsoonal moisture has allowed year-to-date precip totals to maintain since June 12th WATF update
- Most SNOTEL sites in southern Colorado are recording record low or near record low water year precipitation values
- Statewide resv storage fell 13% since June 1.
 - Gunnison -20%, Rio Grande -11% & SW CO -15%



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

July 24th, 2018

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos
Hydrologist
Snow Survey Supervisor
720-544-2852

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



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