



Water Availability Task Force Meeting

February 22nd, 2018

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

Hydrologist

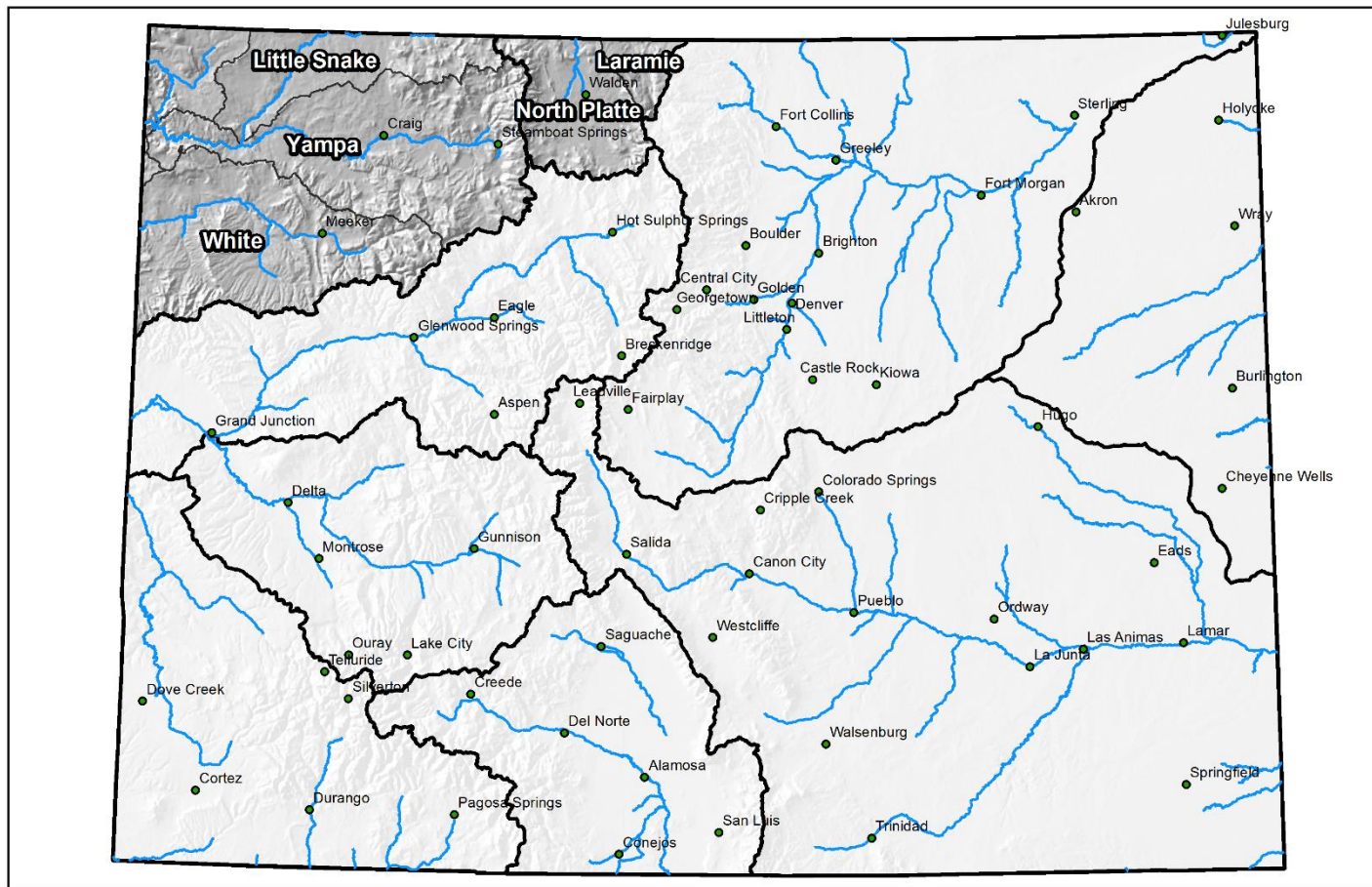
Asst. Snow Survey Supervisor

720-544-2853

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

Major Basin Summary

Yampa, White, and North Platte River Basins



0 25 50 100 150 200 Miles



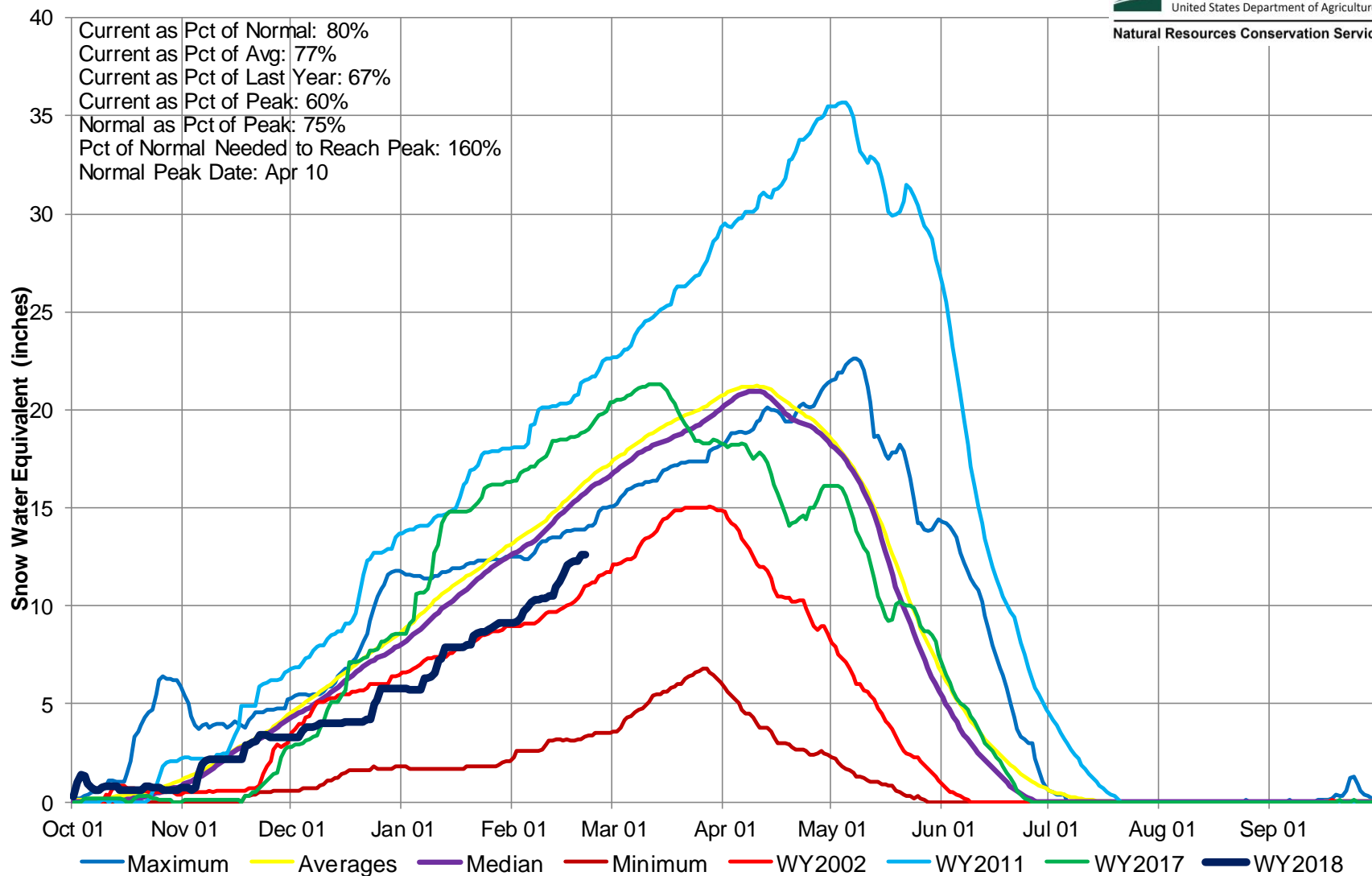
Yampa and White River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



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Yampa and White River Basins High/Low Monthly Precipitation Summary

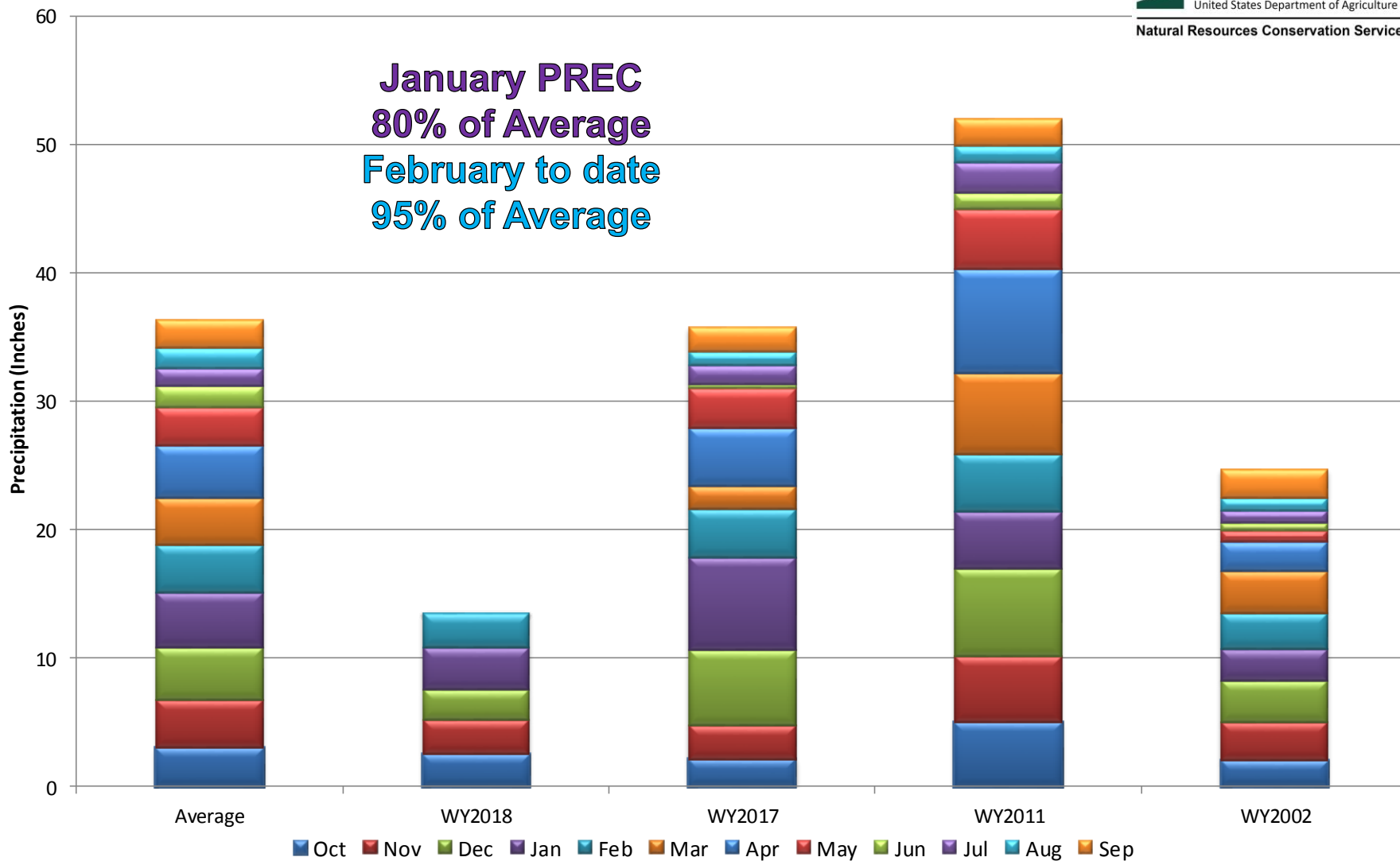
Based on Provisional SNOTEL data as of Feb 21, 2018



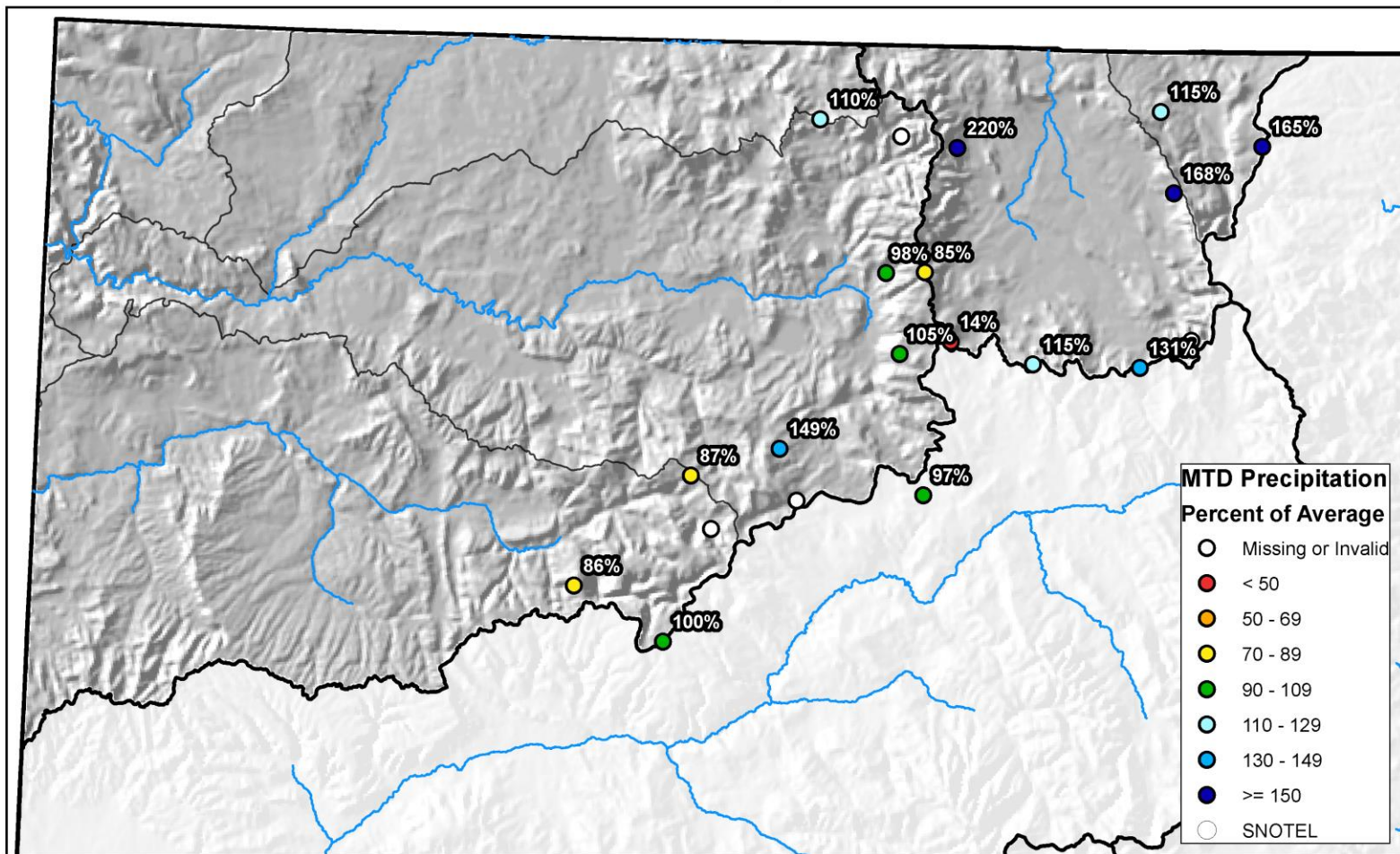
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January PREC
80% of Average
February to date
95% of Average



Yampa, White, and North Platte River Basins Month to Date Precipitation Summary Current as of Feb 21, 2018



0 10 20 40 60 80 Miles



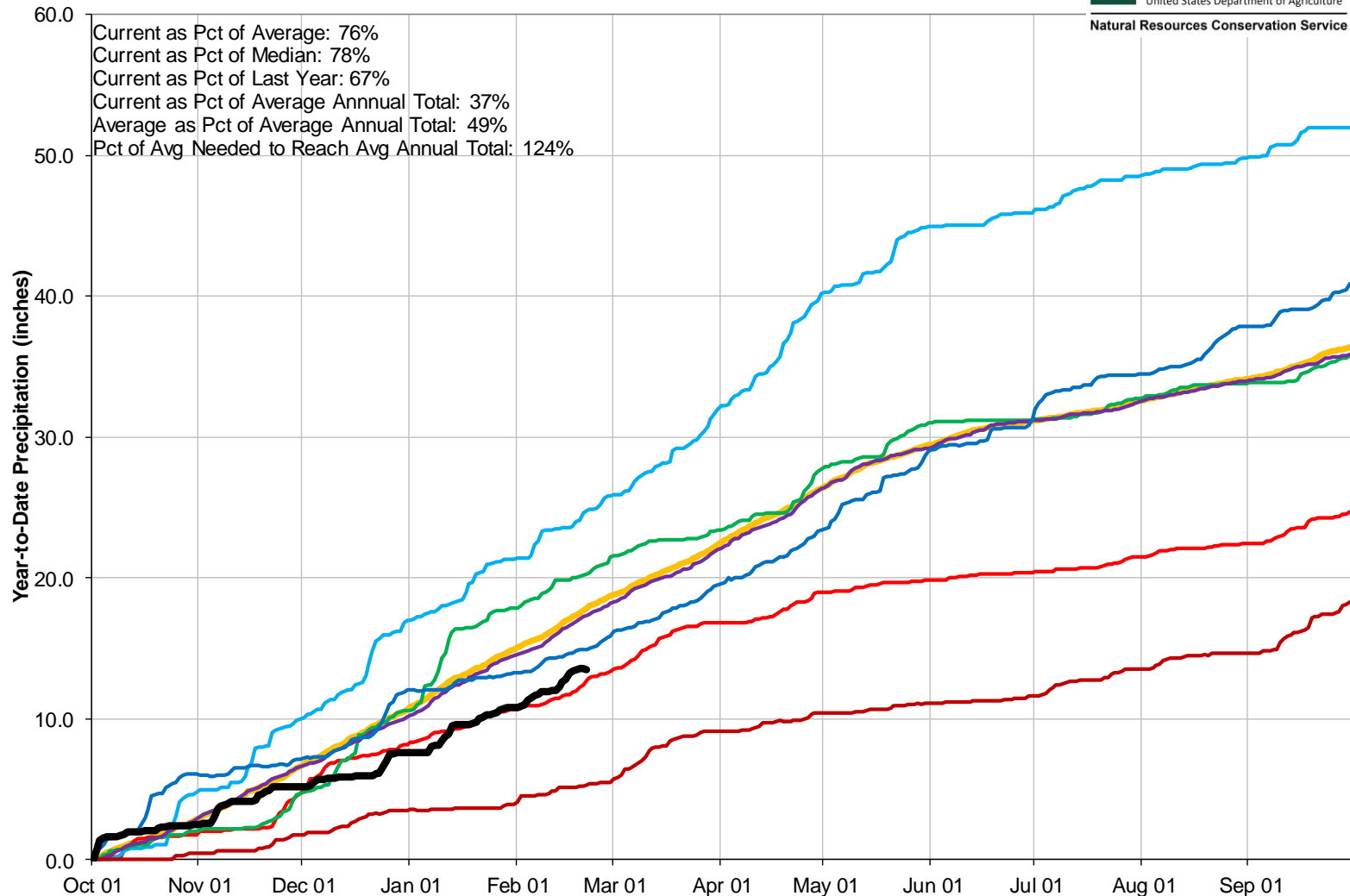
Yampa and White River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018

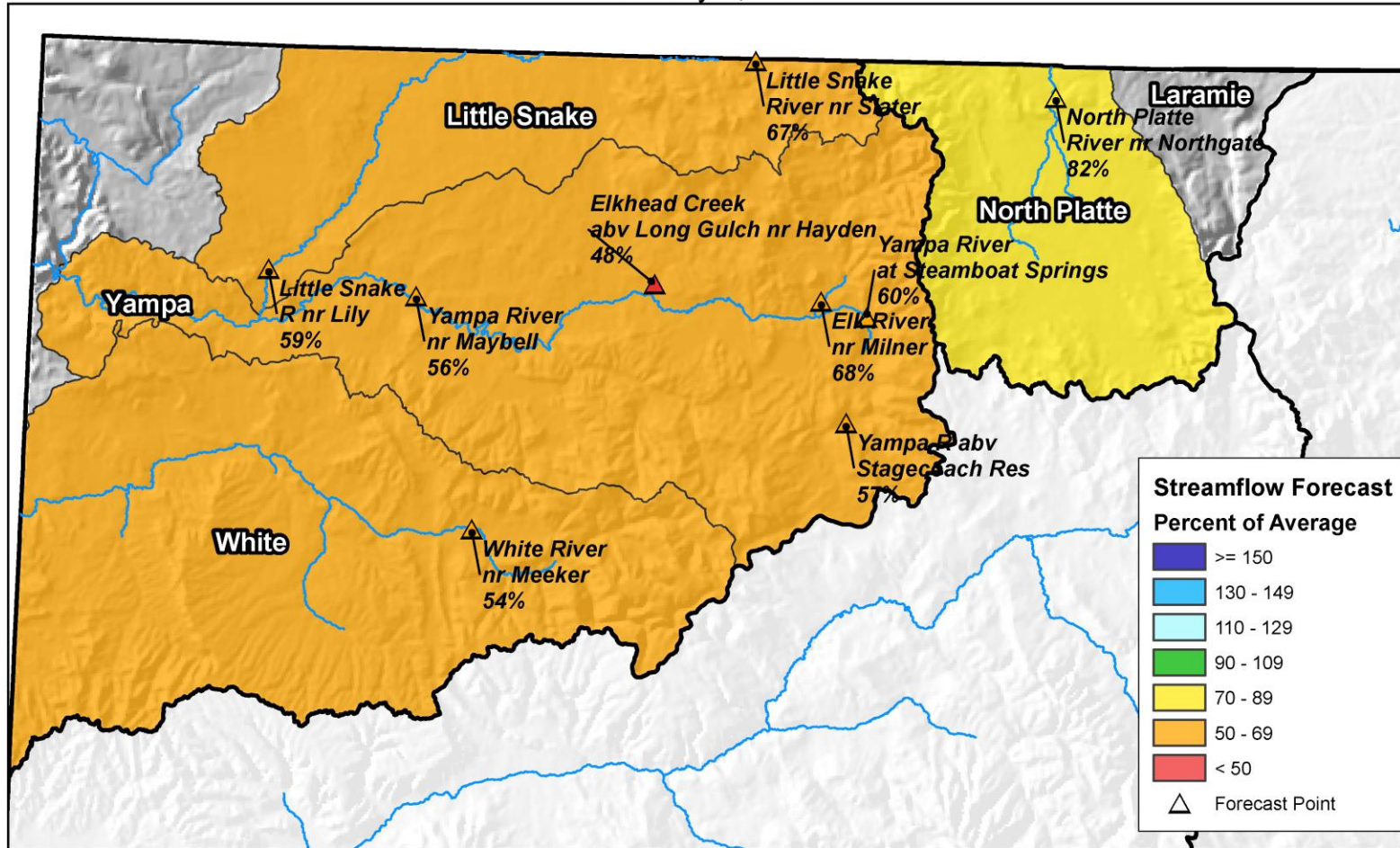


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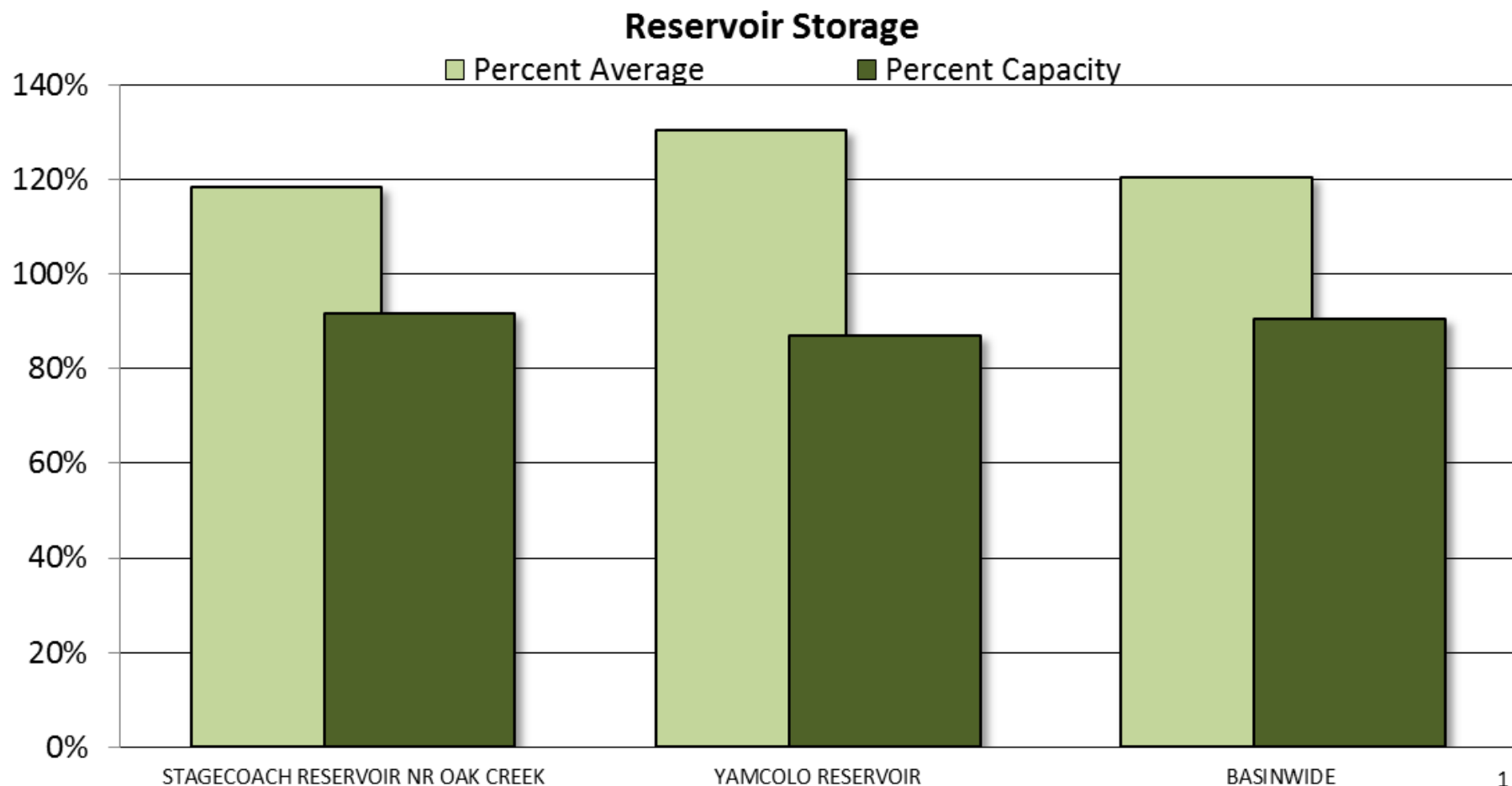
Natural Resources Conservation Service



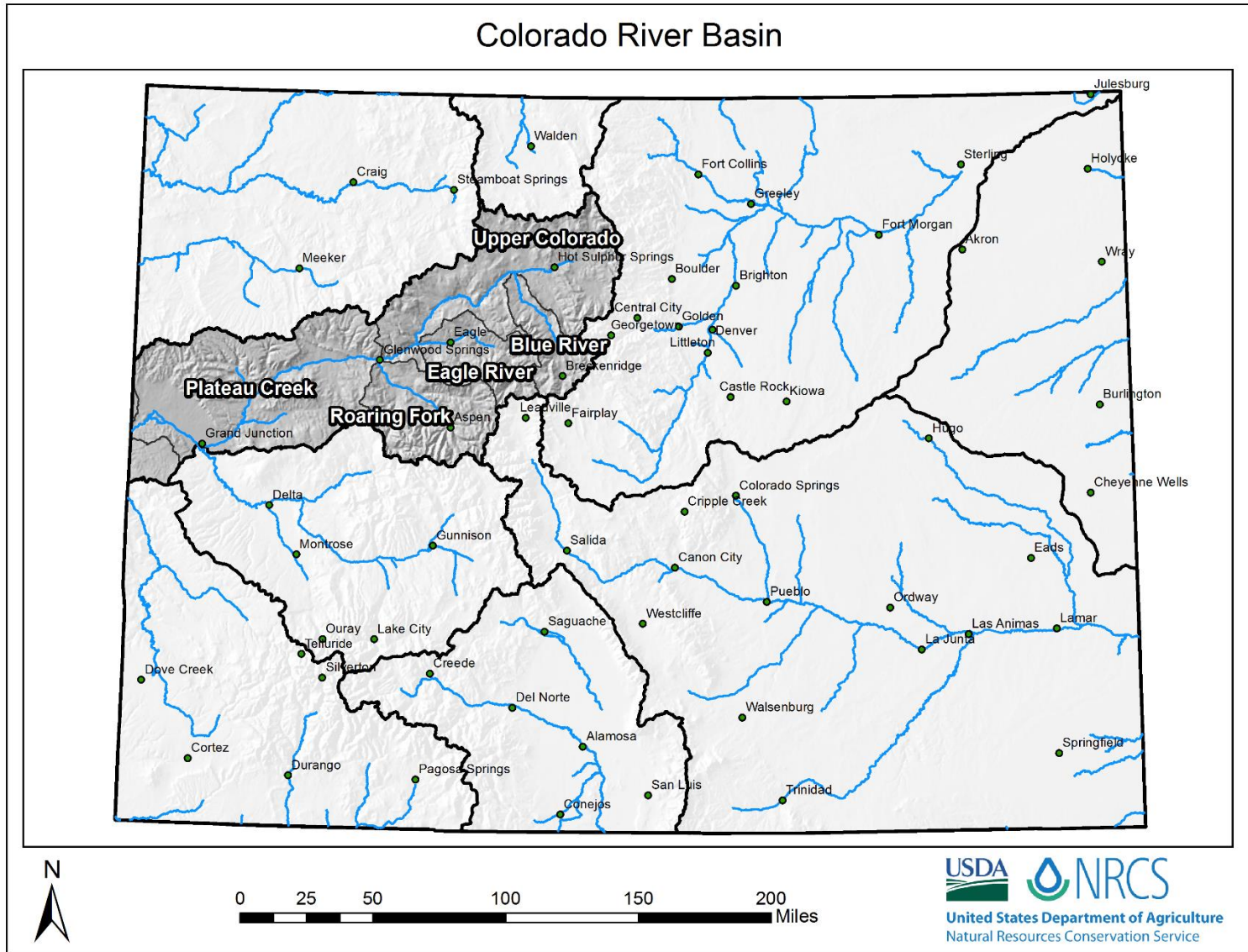
Yampa, White, and North Platte River Basins Streamflow Forecast Summary February 1, 2018



0 10 20 40 60 80 Miles



Major Basin Summary





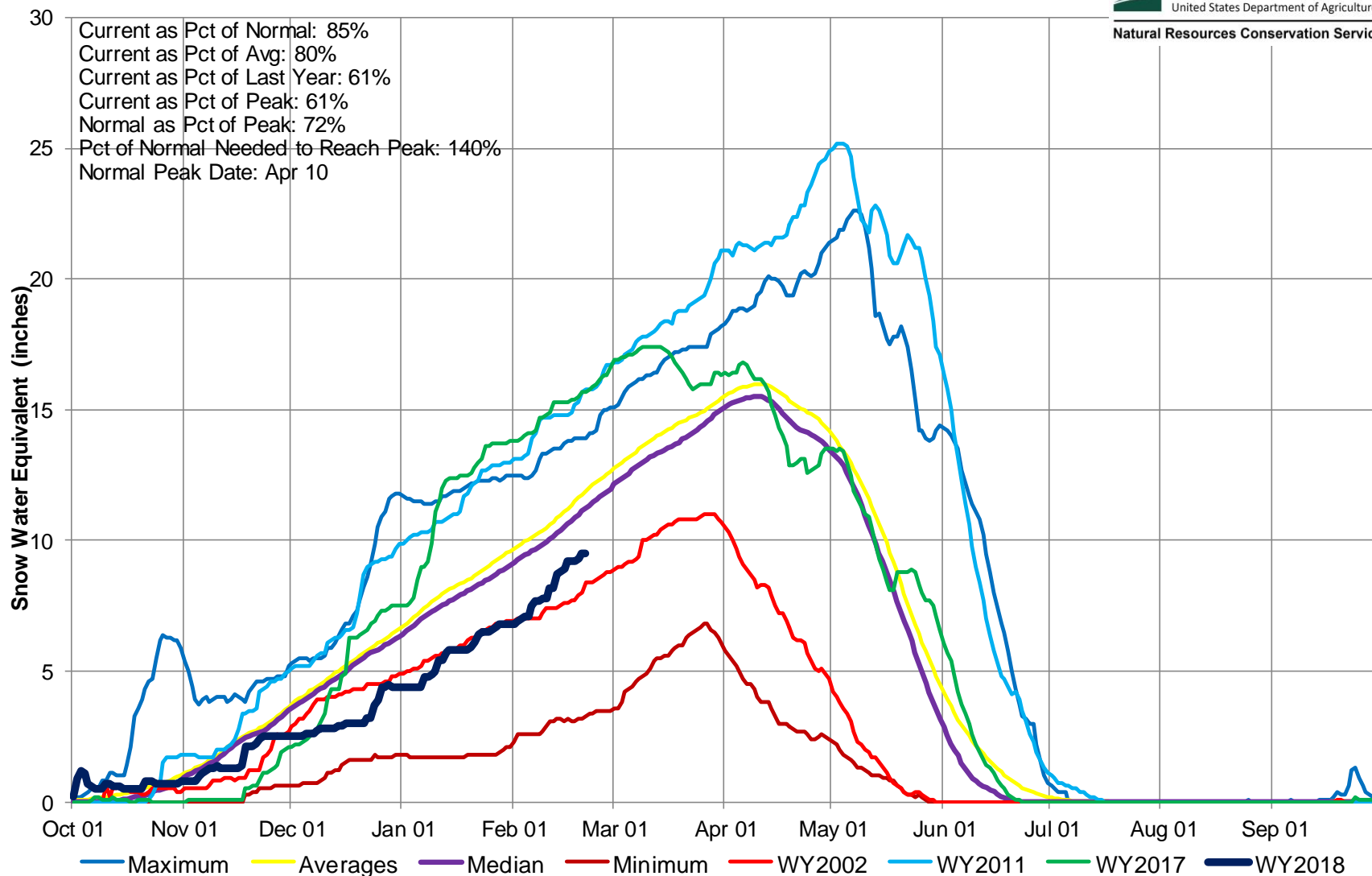
Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



United States Department of Agriculture

Natural Resources Conservation Service





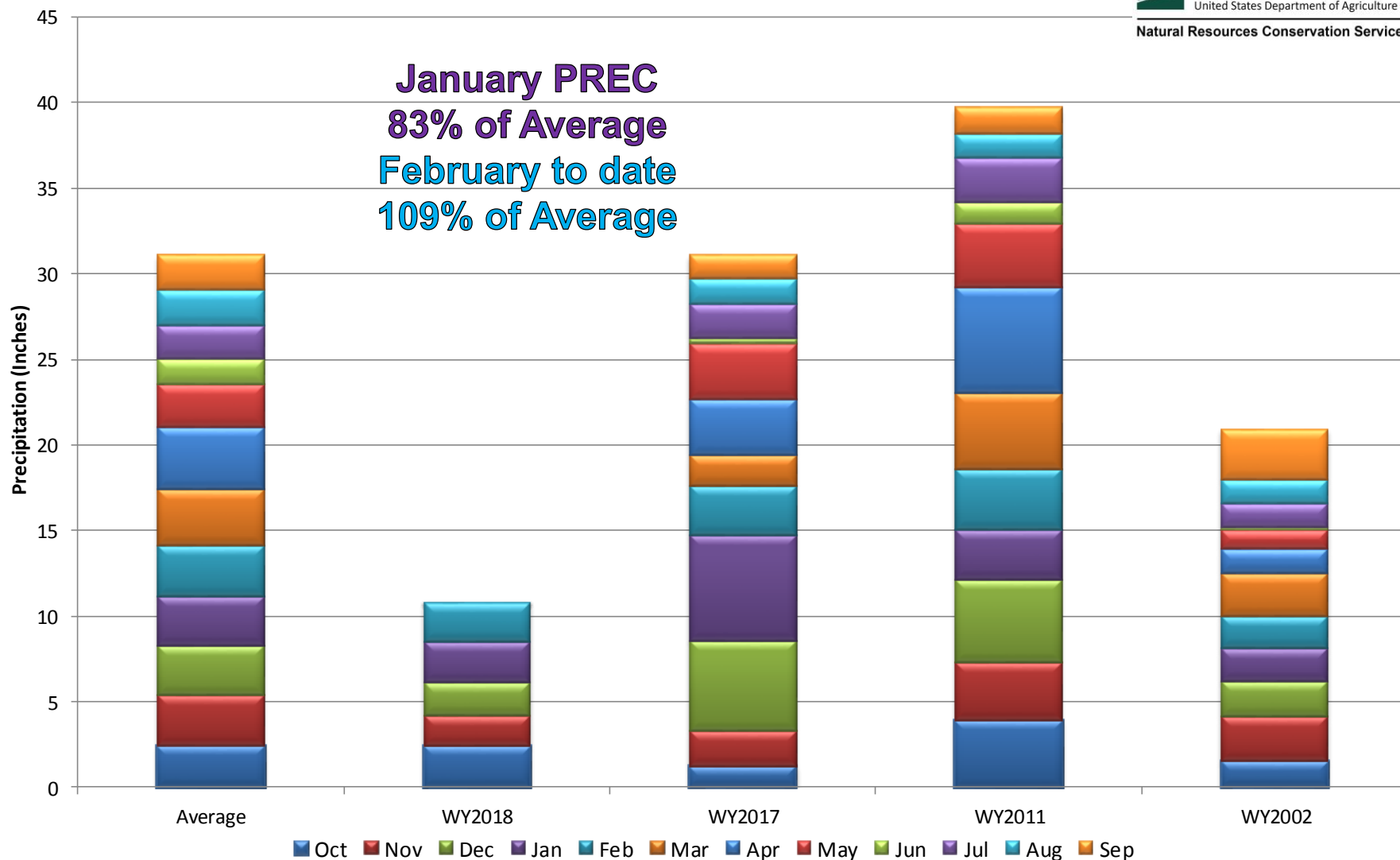
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



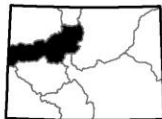
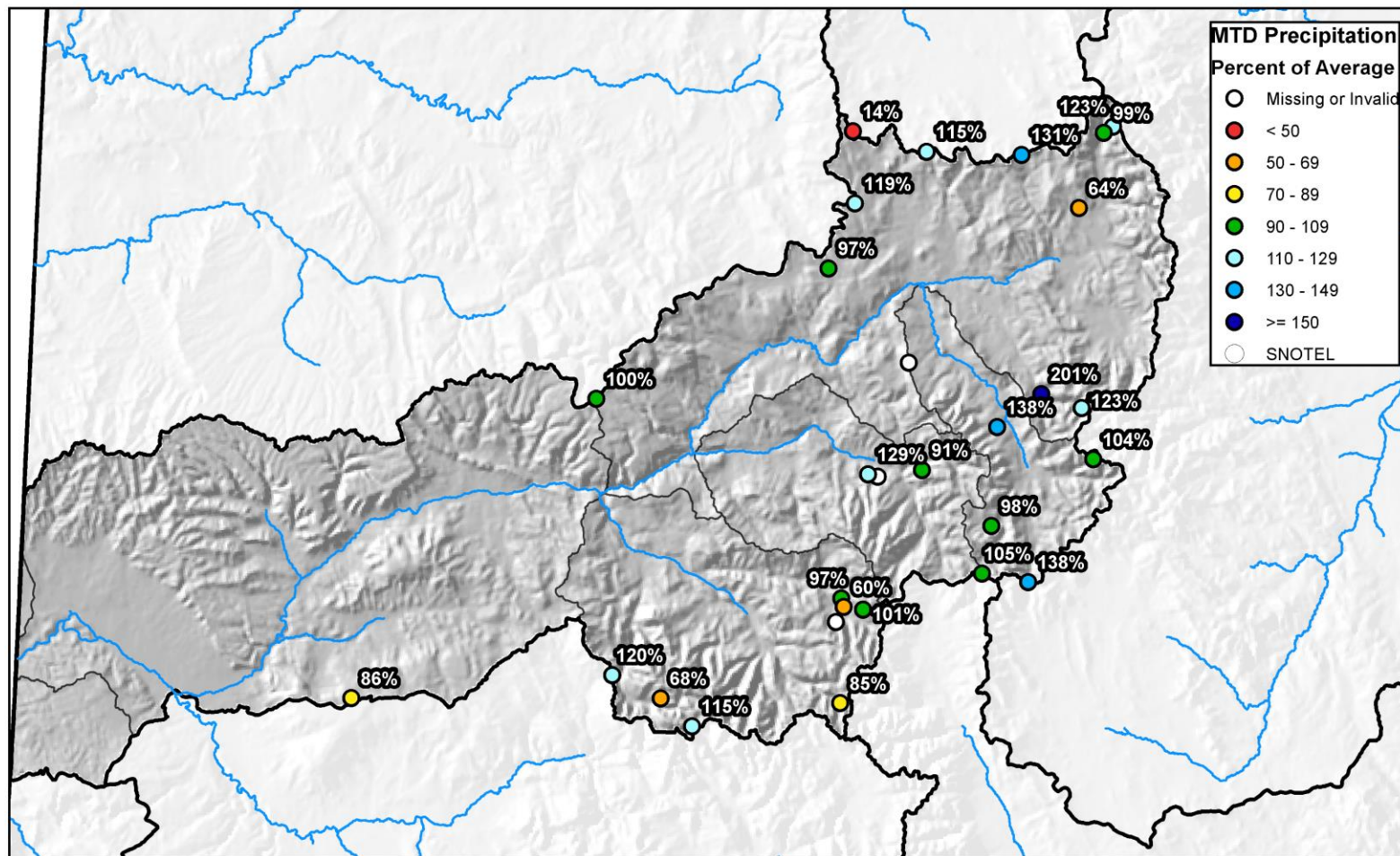
United States Department of Agriculture

Natural Resources Conservation Service



Upper Colorado River Basin Month to Date Precipitation Summary

Current as of Feb 21, 2018



0 10 20 40 60 80 Miles



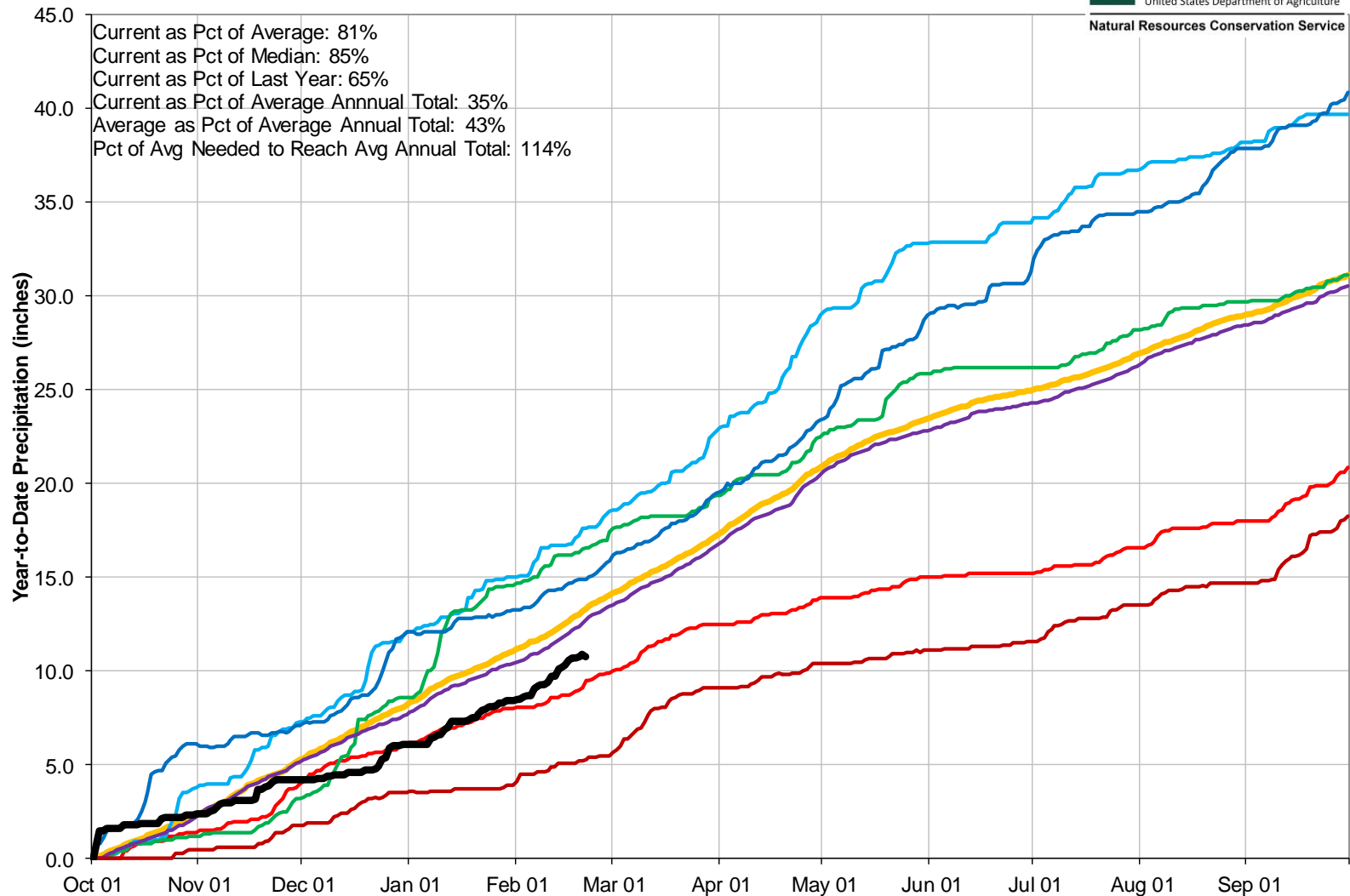
Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



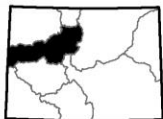
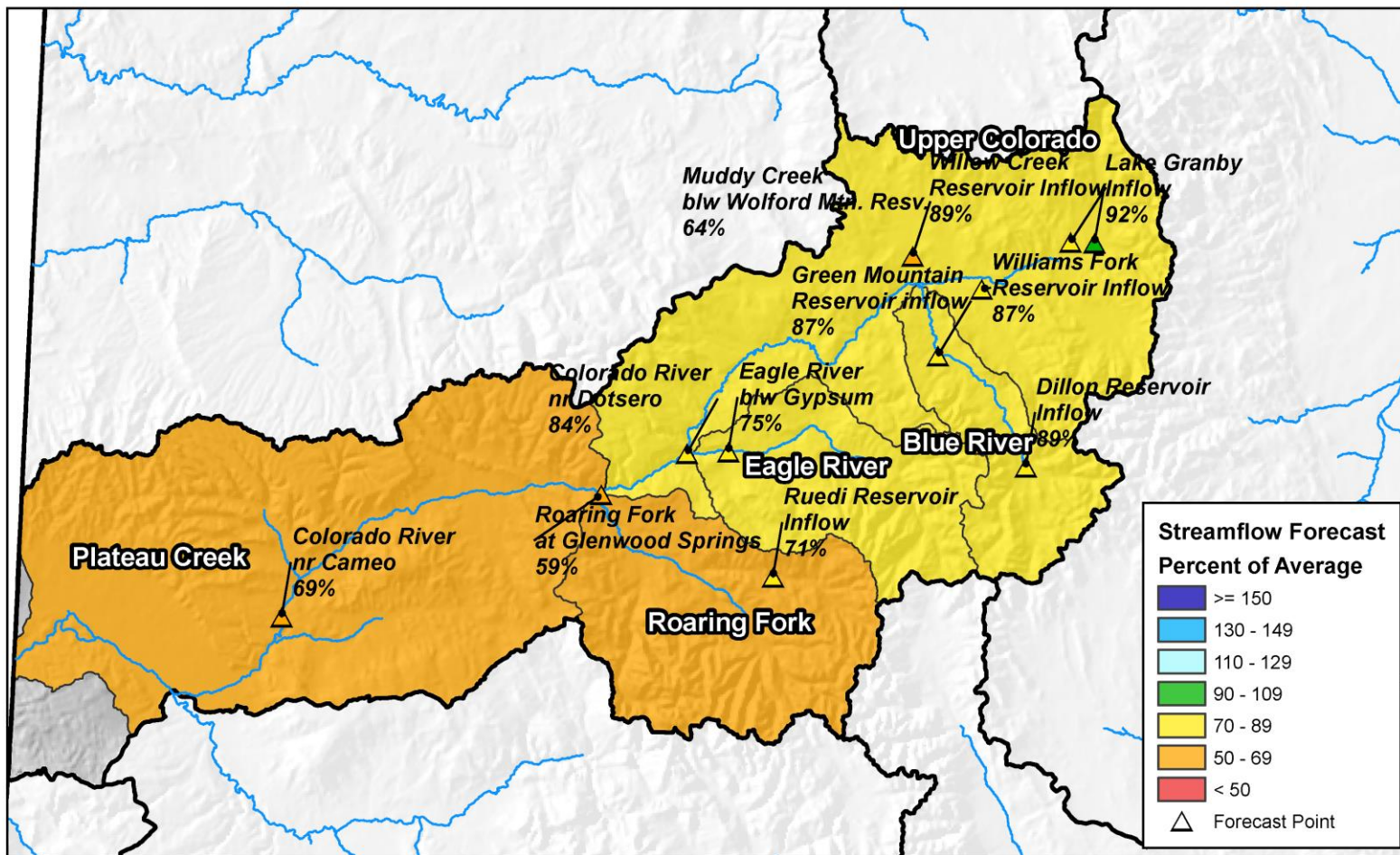
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Natural Resources Conservation Service



Upper Colorado River Basin Streamflow Forecast Summary

February 1, 2018



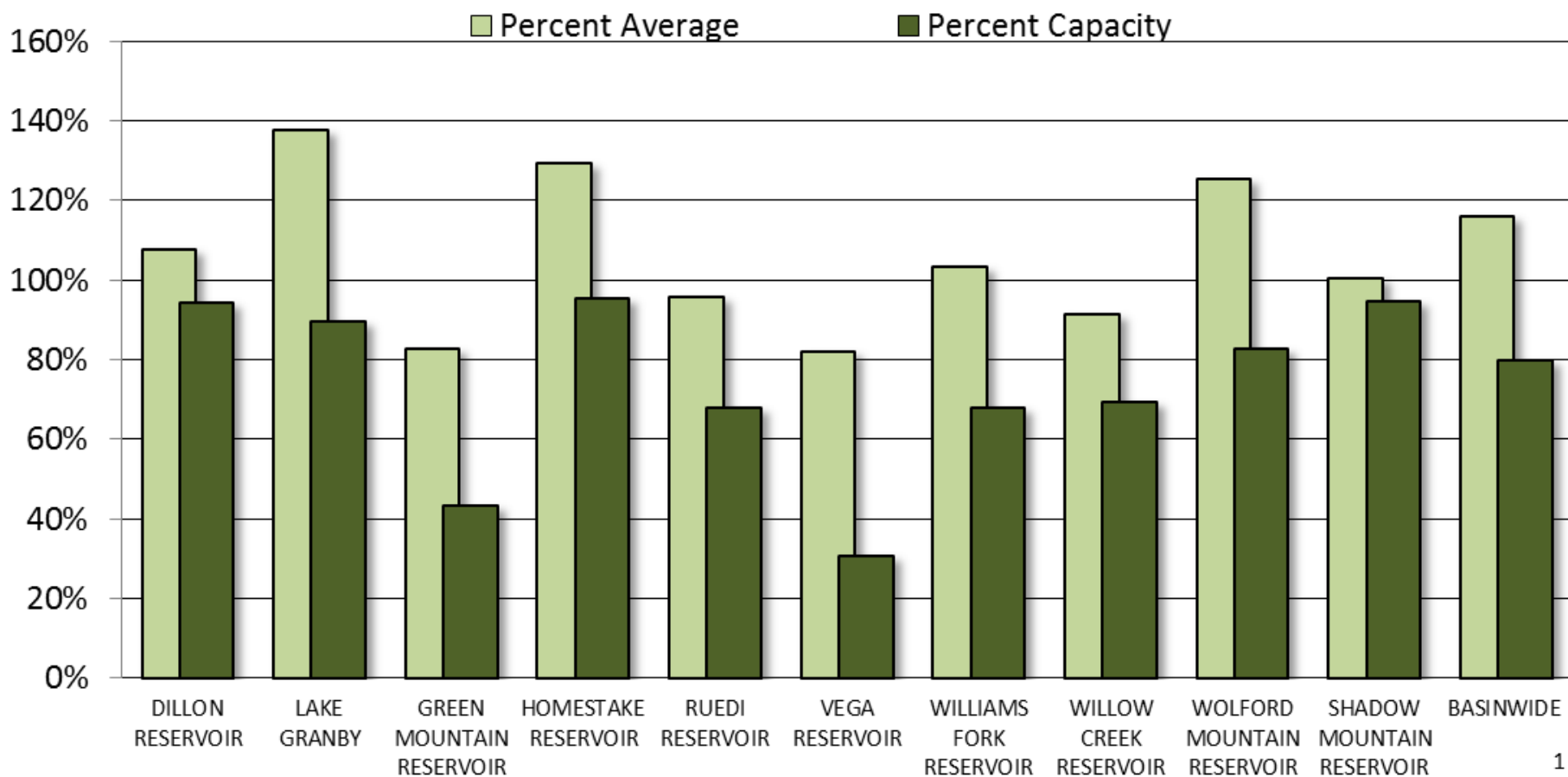
0 10 20 40 60 80 Miles



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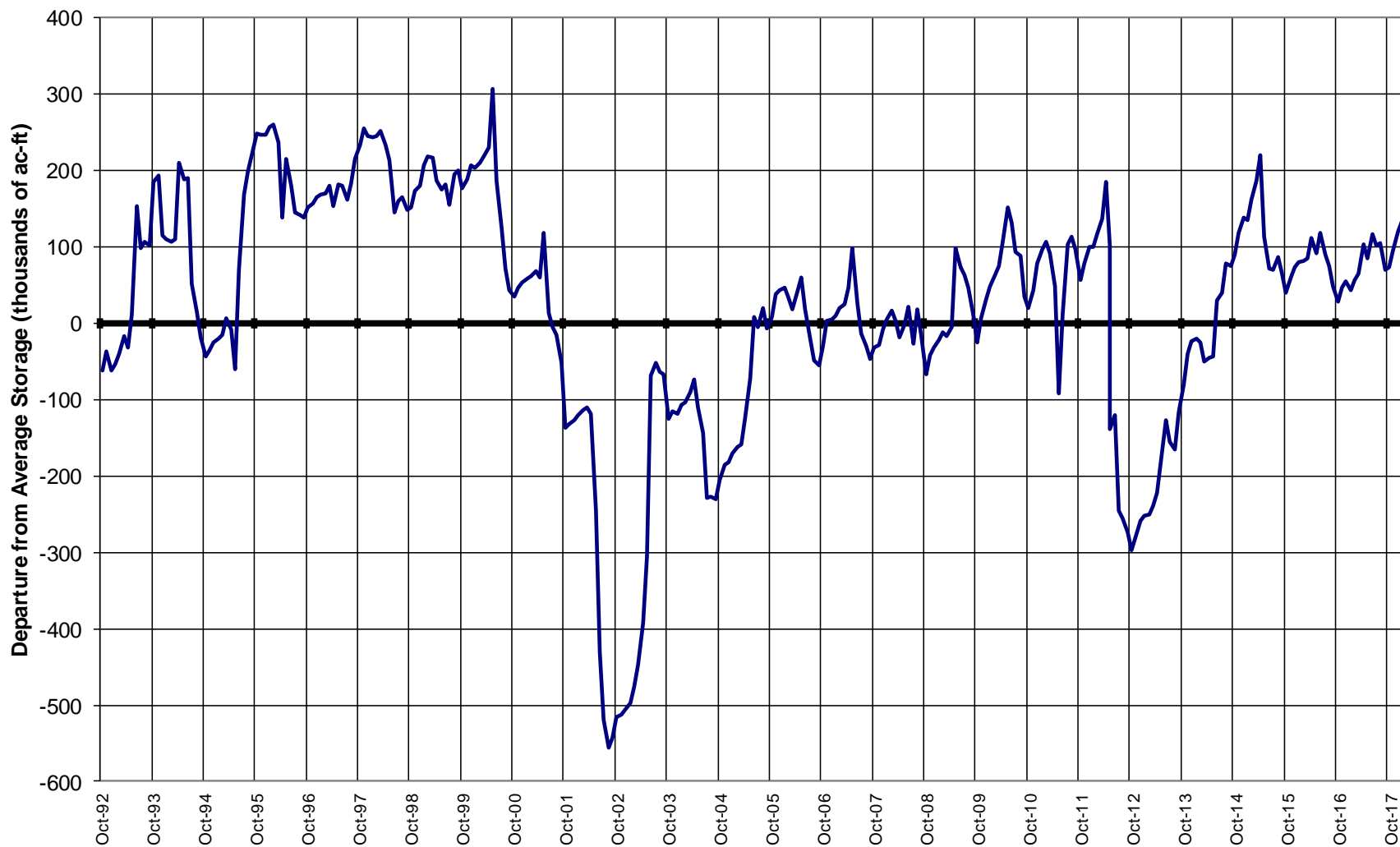
Natural Resources Conservation Service

Reservoir Storage



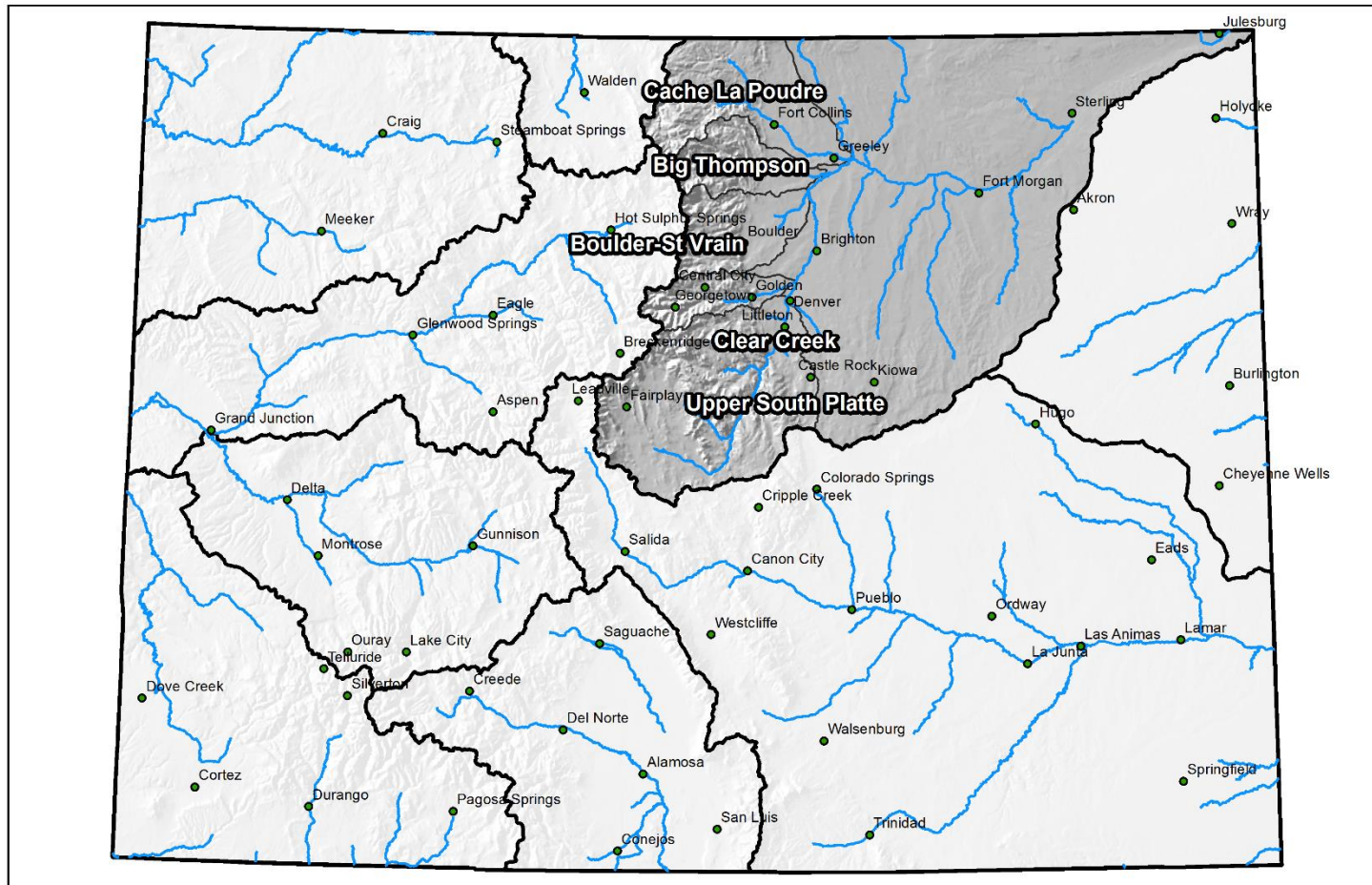


COLORADO RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

South Platte River Basin



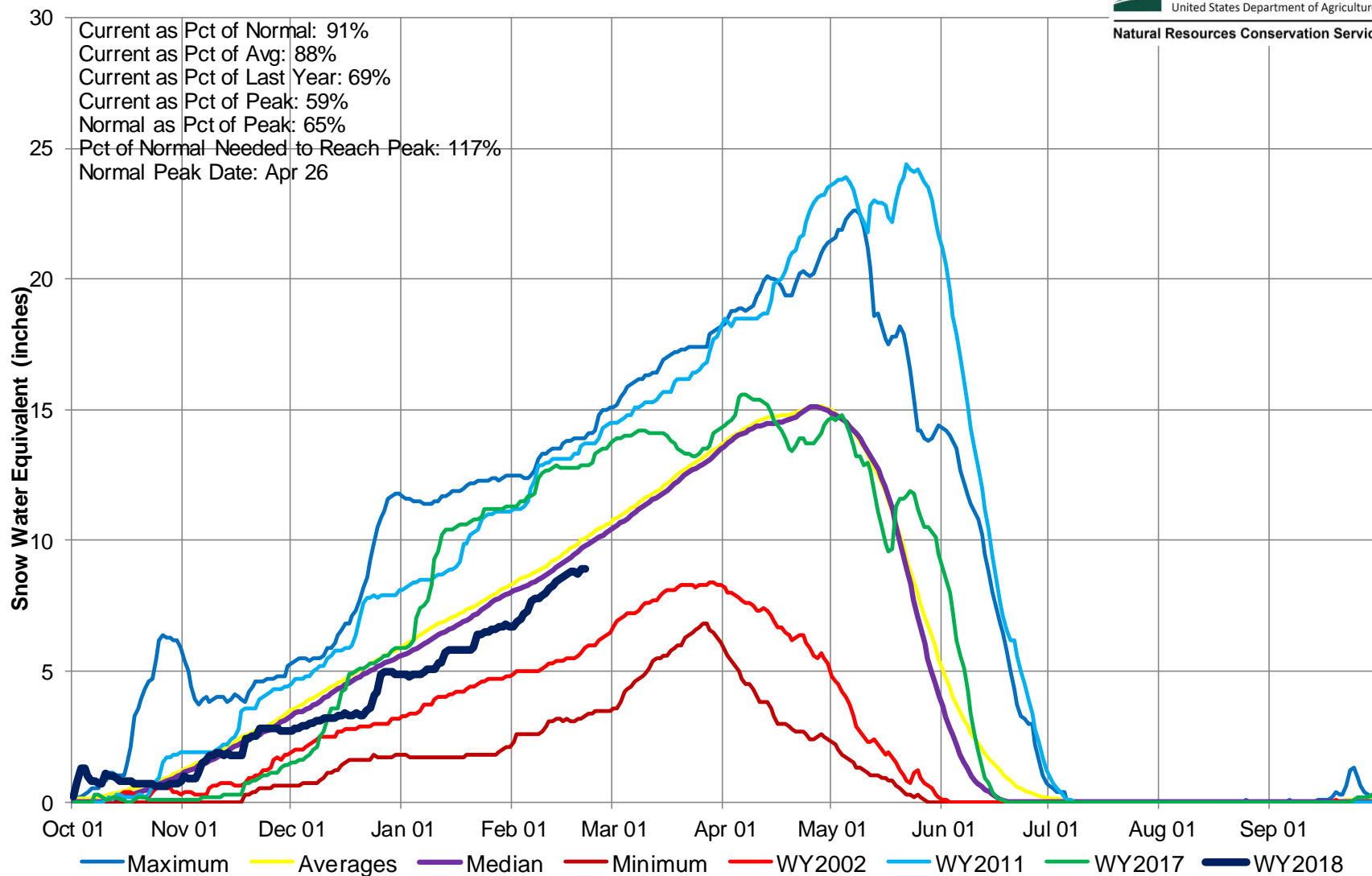
South Platte River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



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Natural Resources Conservation Service



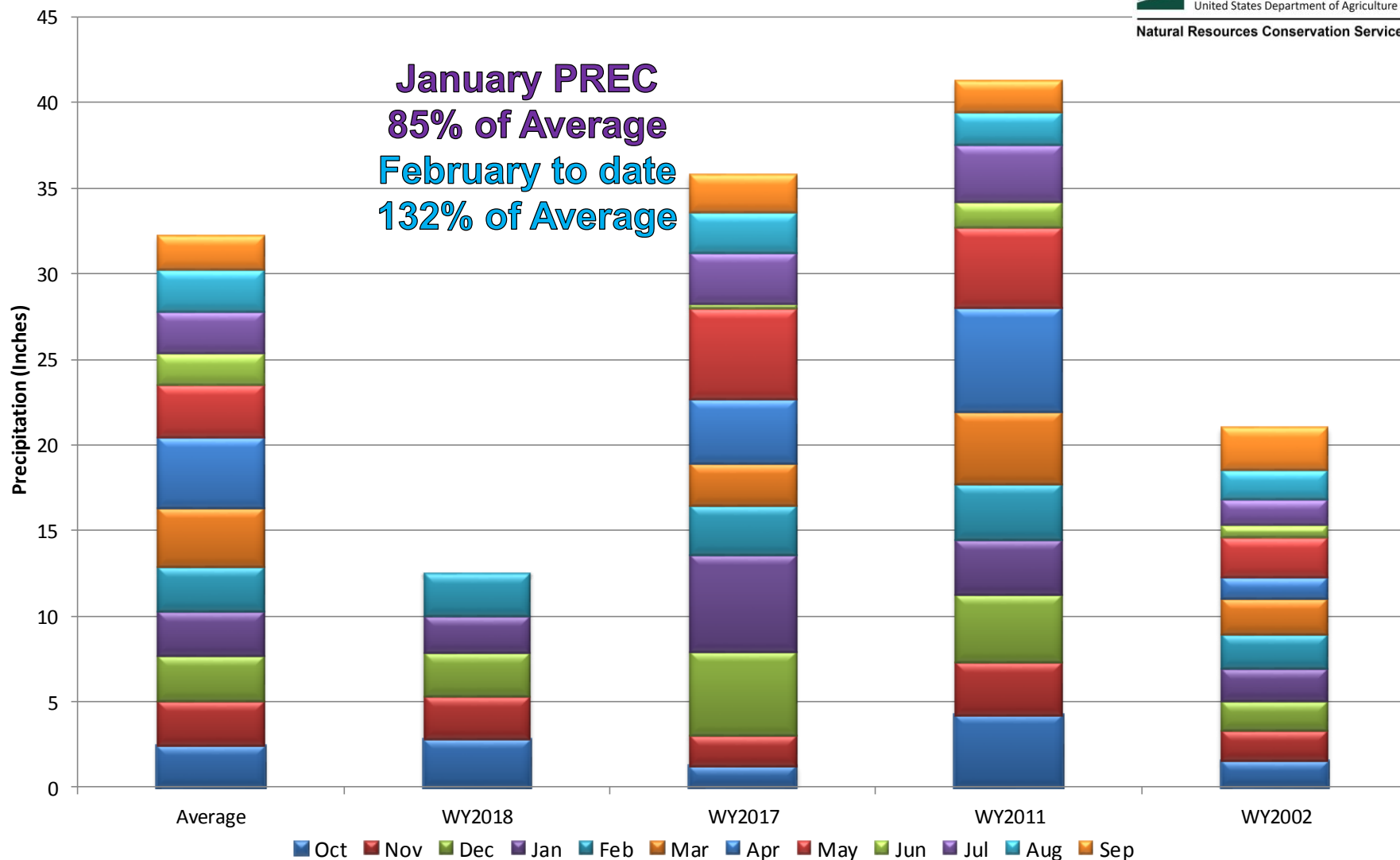
South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



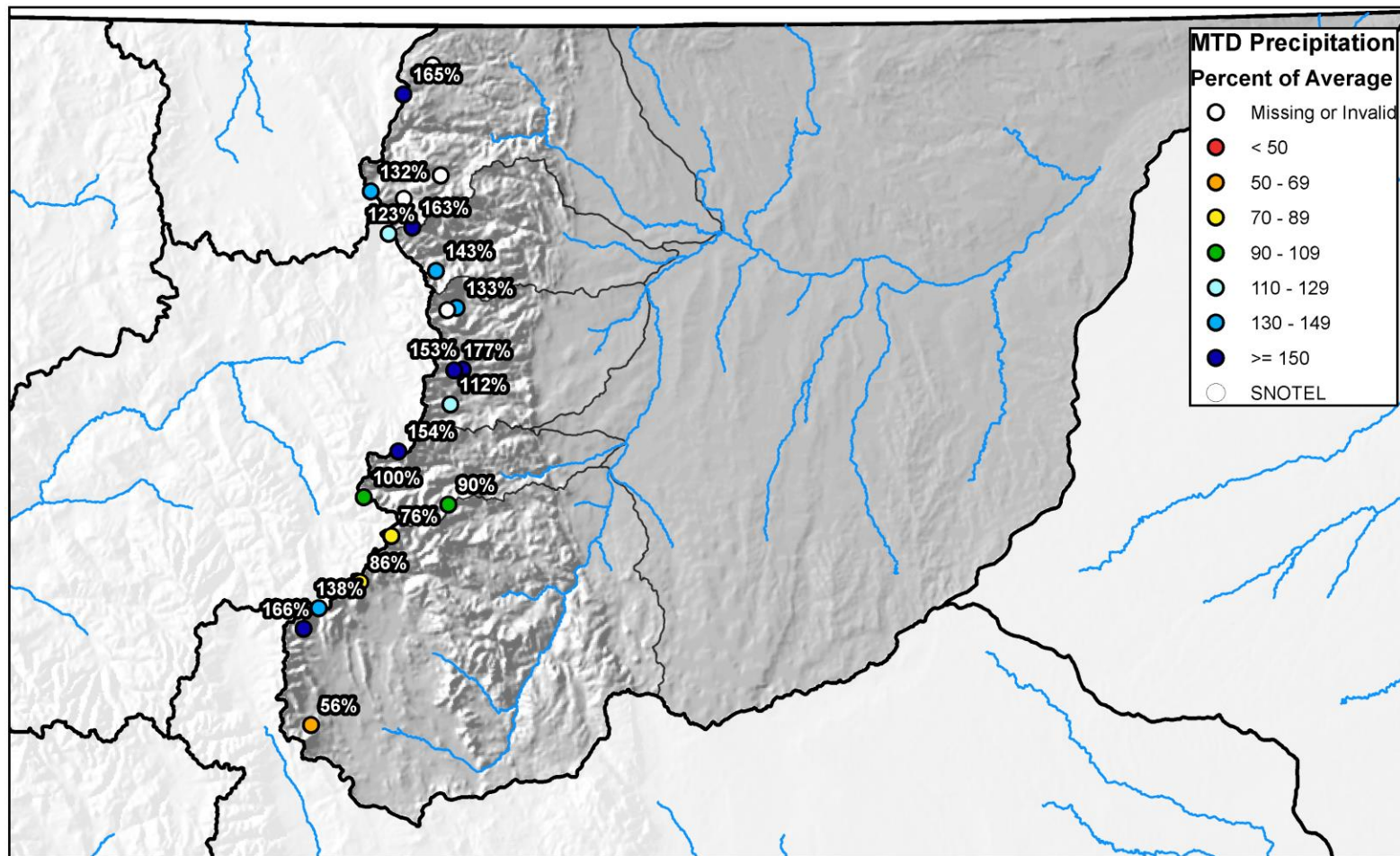
United States Department of Agriculture

Natural Resources Conservation Service



South Platte River Basin Month to Date Precipitation Summary

Current as of Feb 21, 2018



0 10 20 40 60 80 Miles

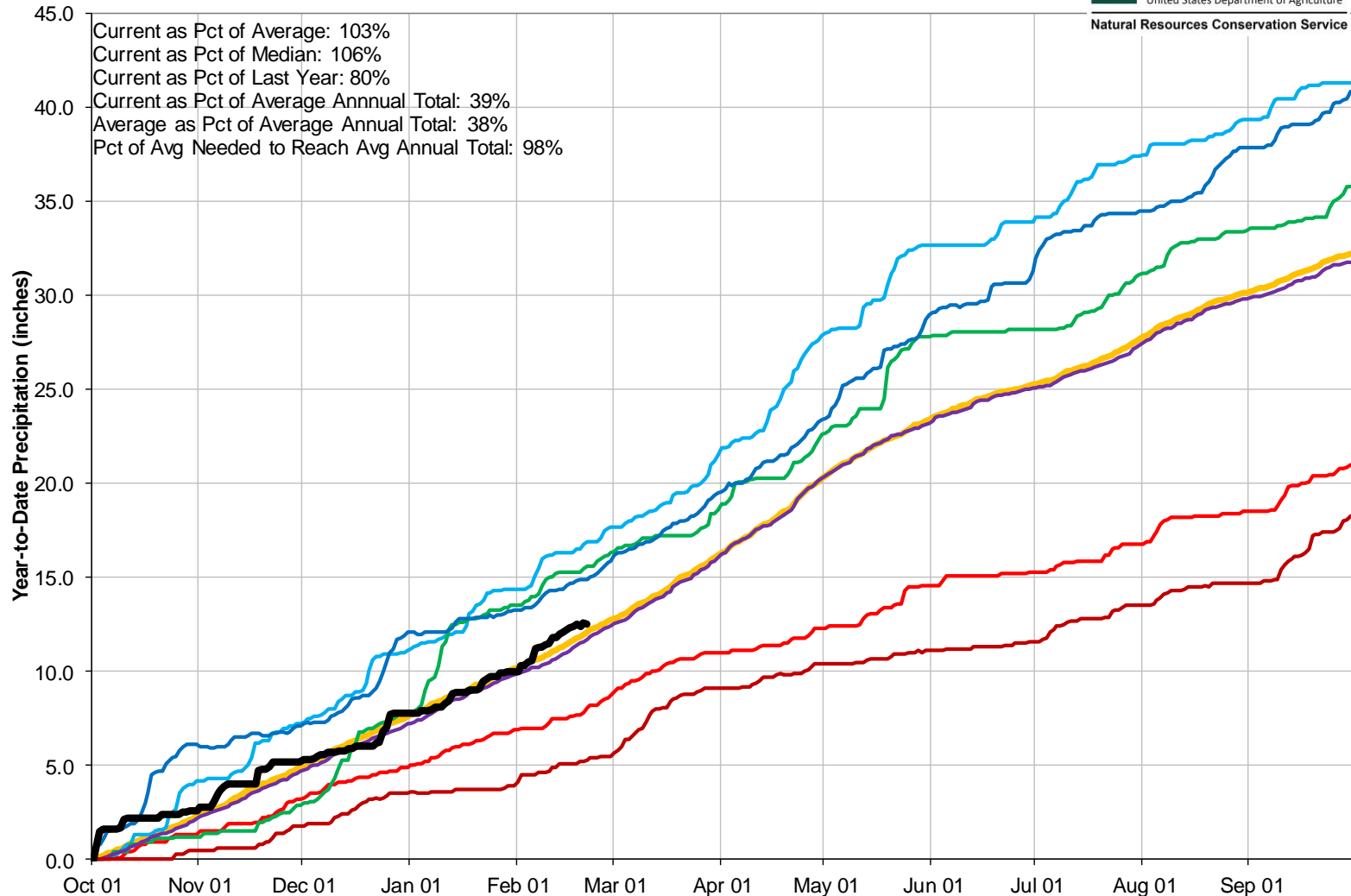
South Platte River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



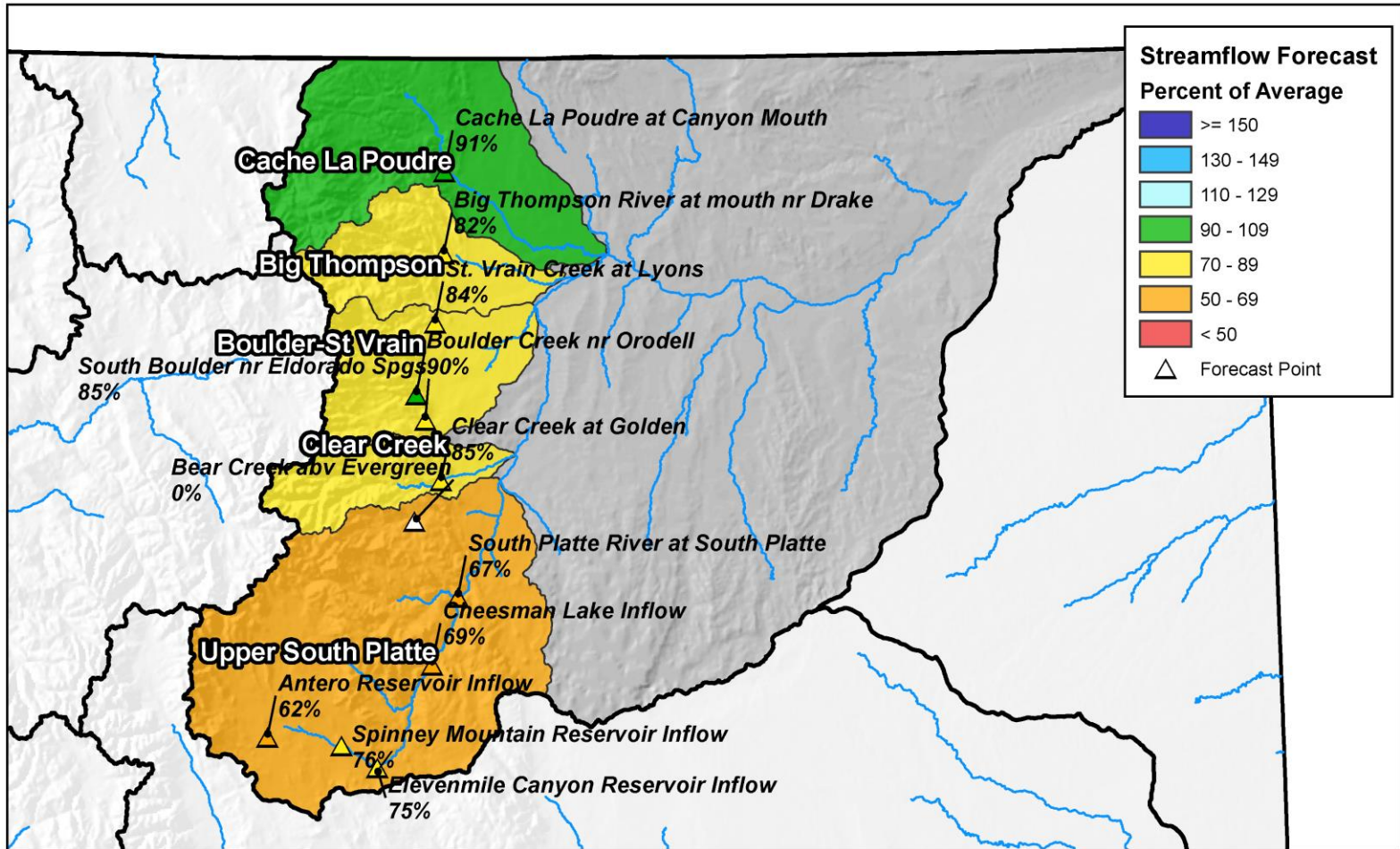
United States Department of Agriculture

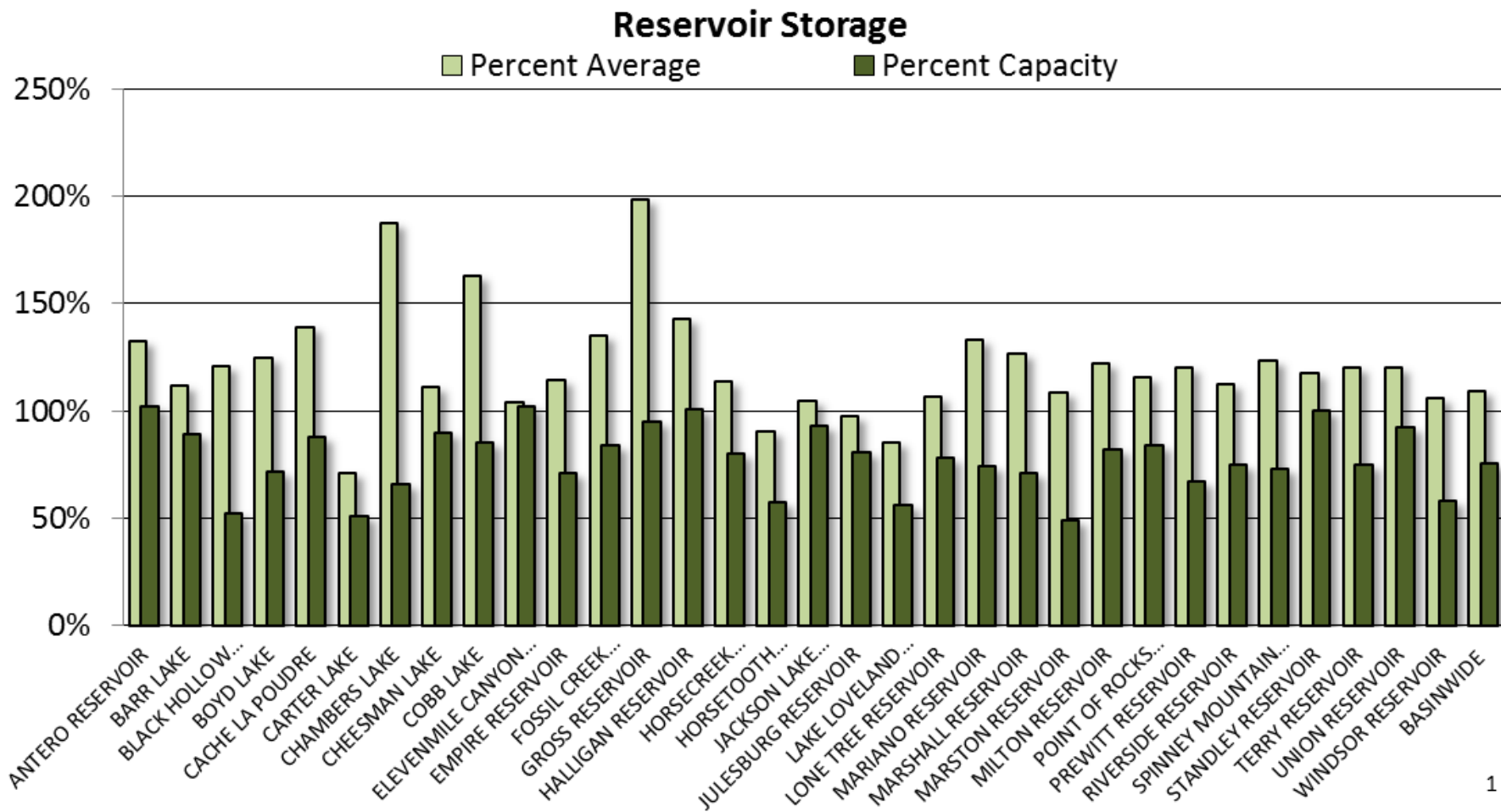
Natural Resources Conservation Service



South Platte River Basin Streamflow Forecast Summary

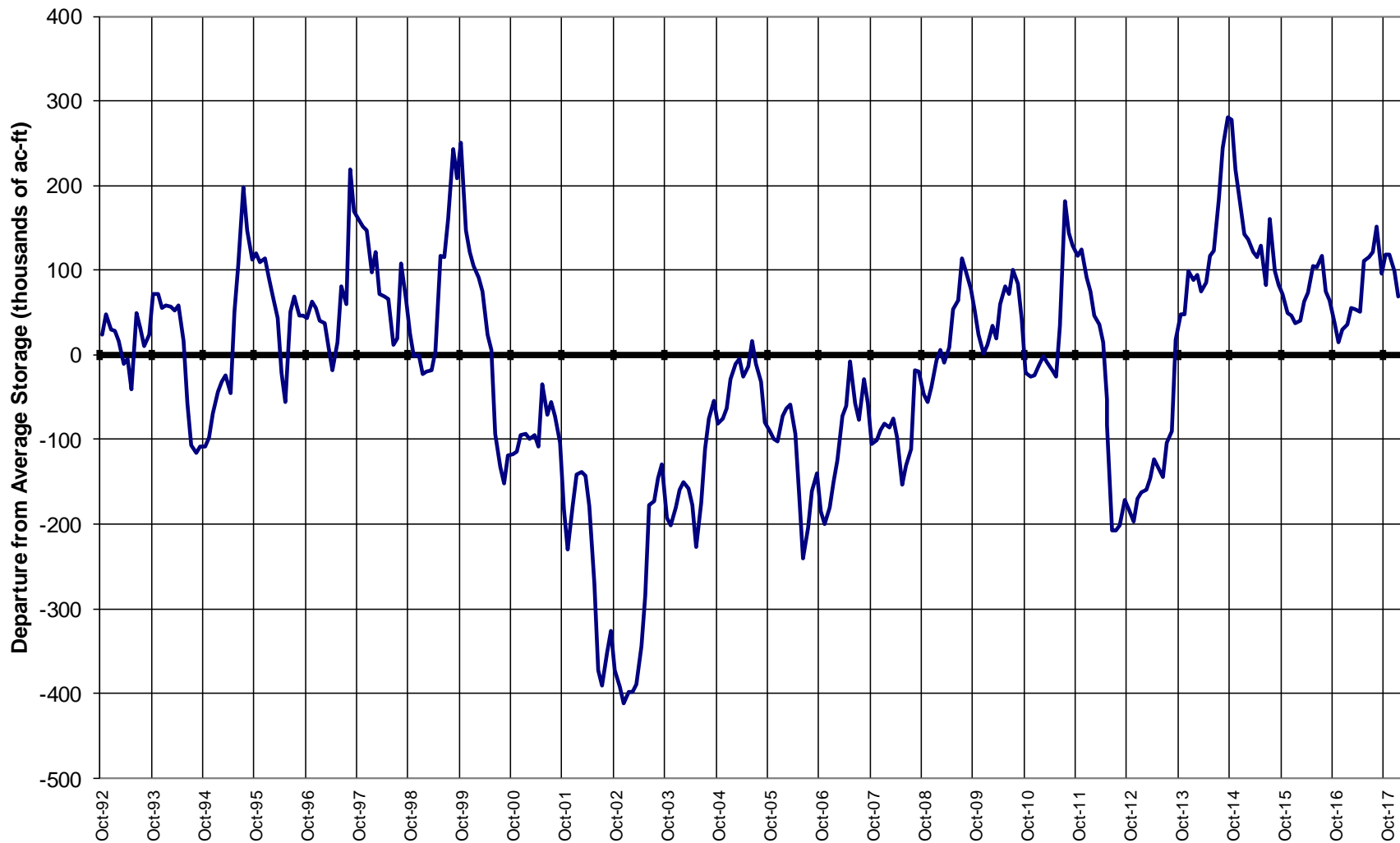
February 1, 2018





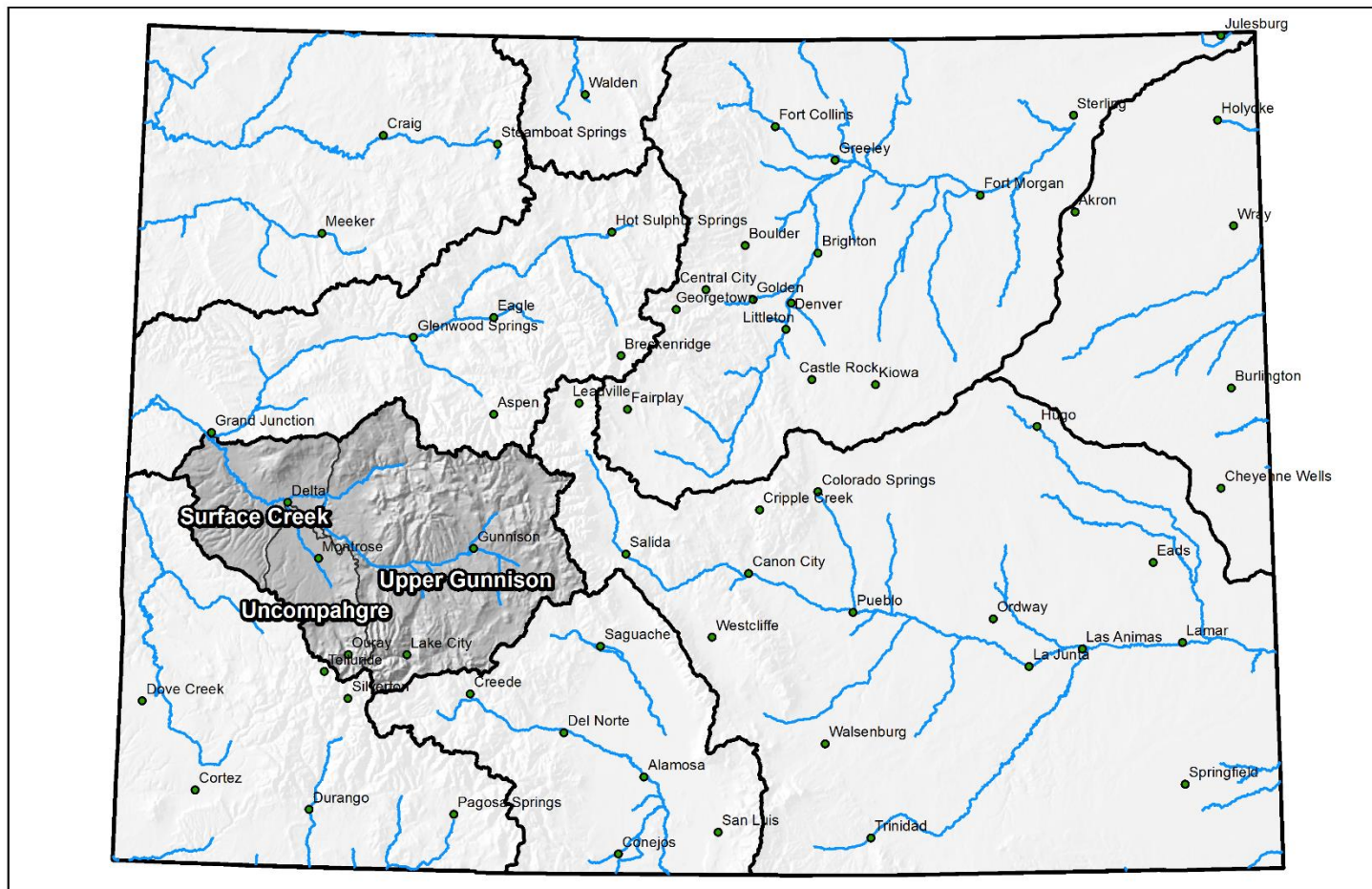


SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

Gunnison River Basin



0 25 50 100 150 200 Miles



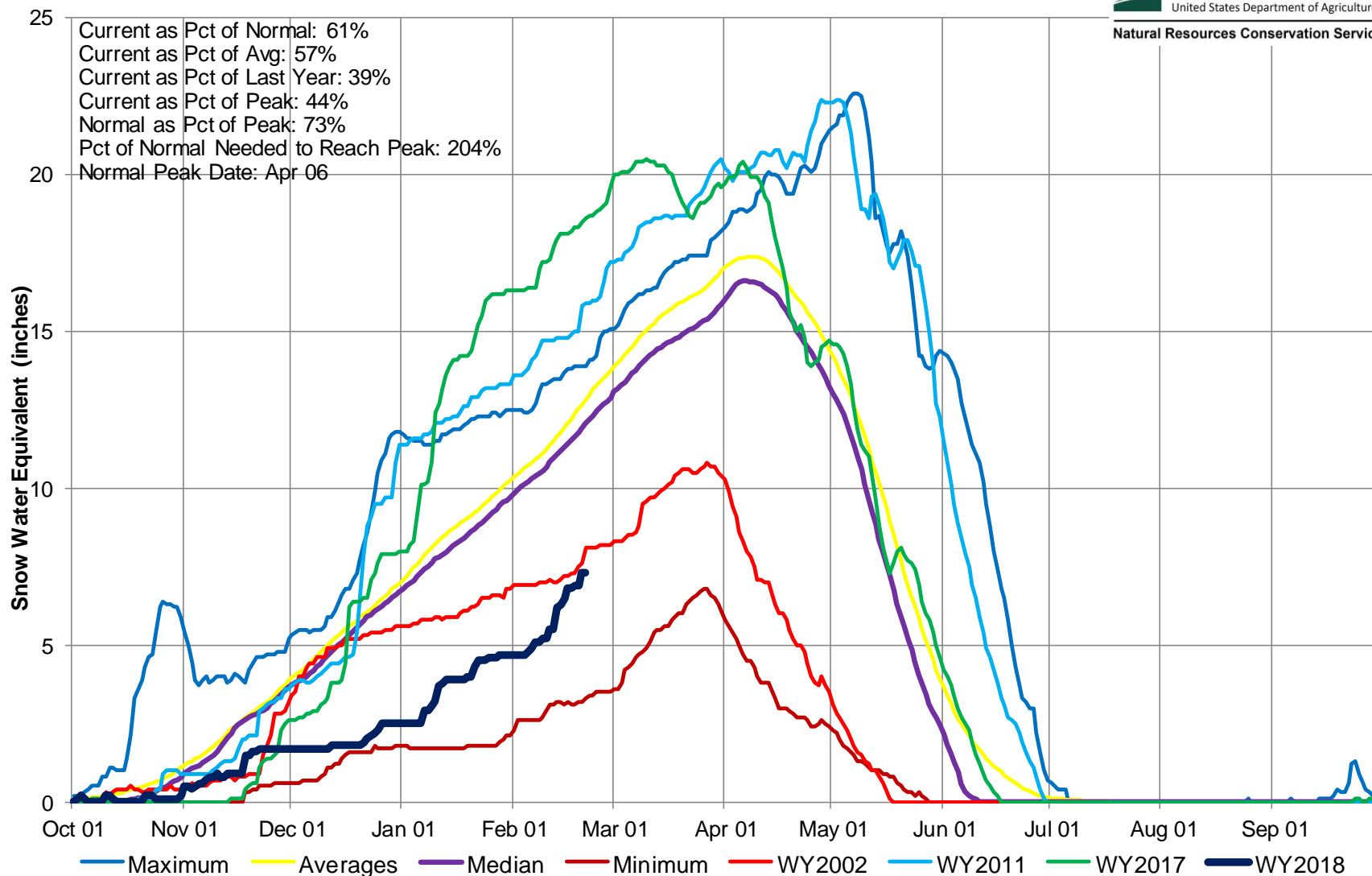
Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



United States Department of Agriculture

Natural Resources Conservation Service



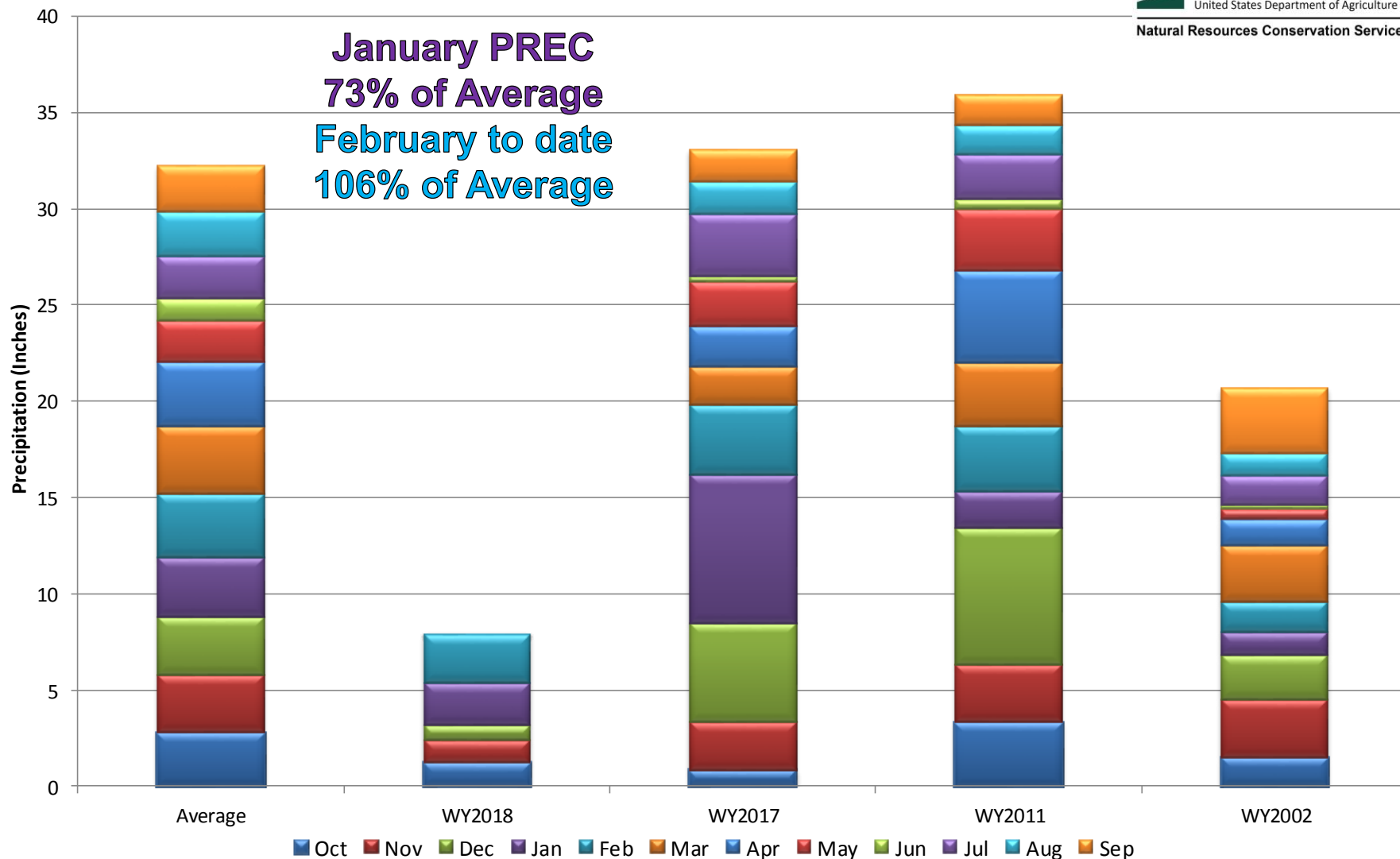
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



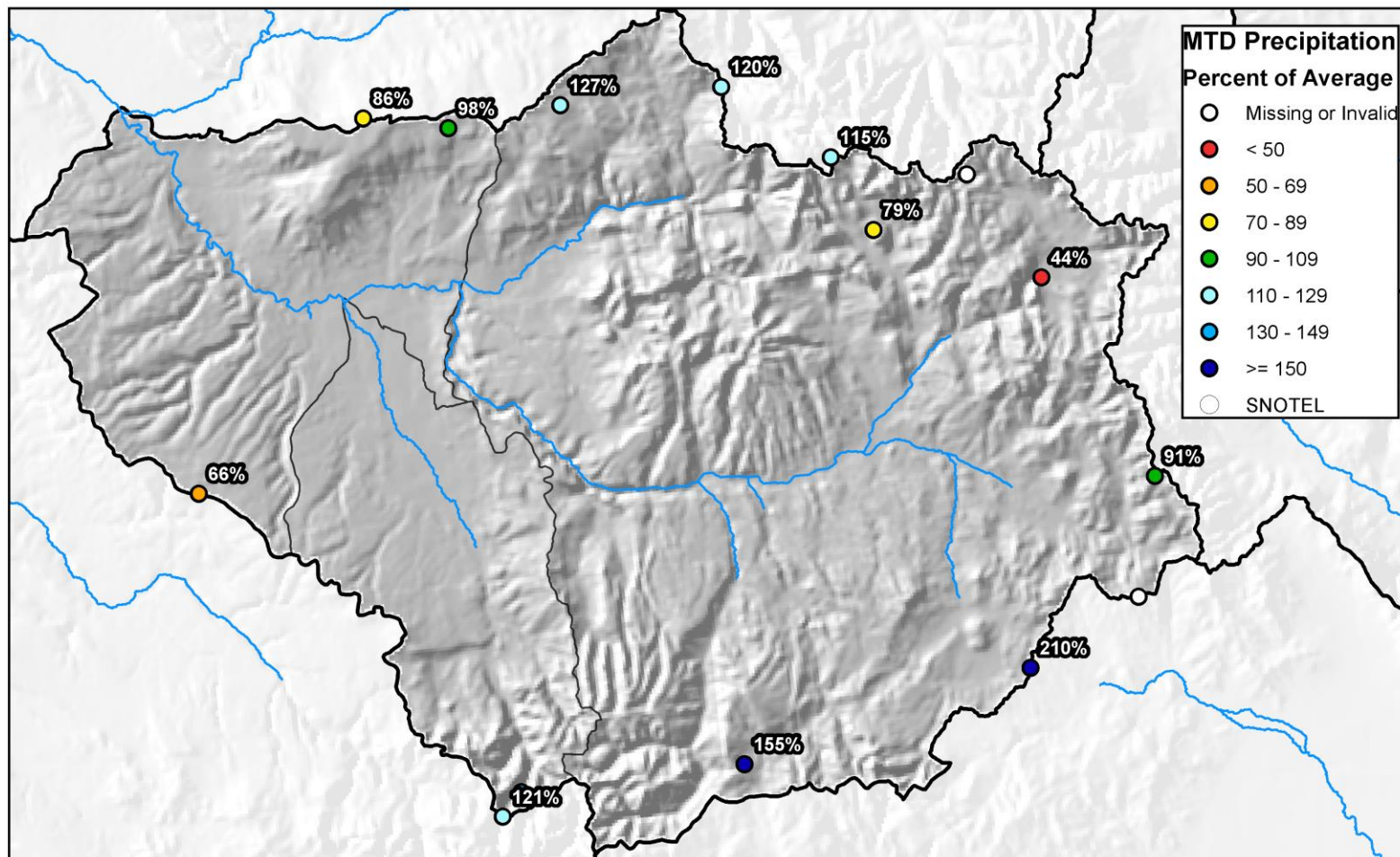
United States Department of Agriculture

Natural Resources Conservation Service



Gunnison River Basin Month to Date Precipitation Summary

Current as of Feb 21, 2018

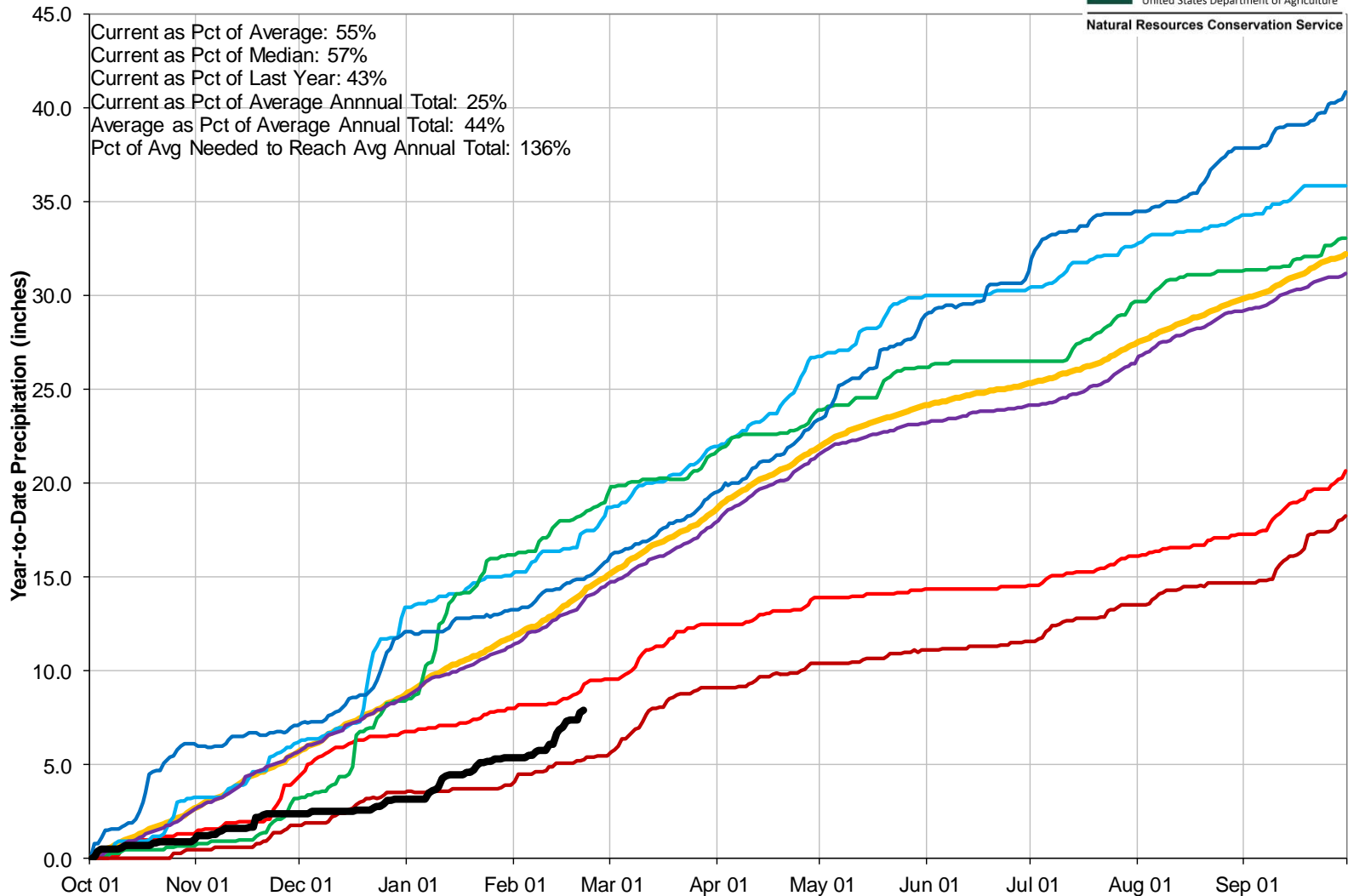


0 5 10 20 30 40 Miles

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

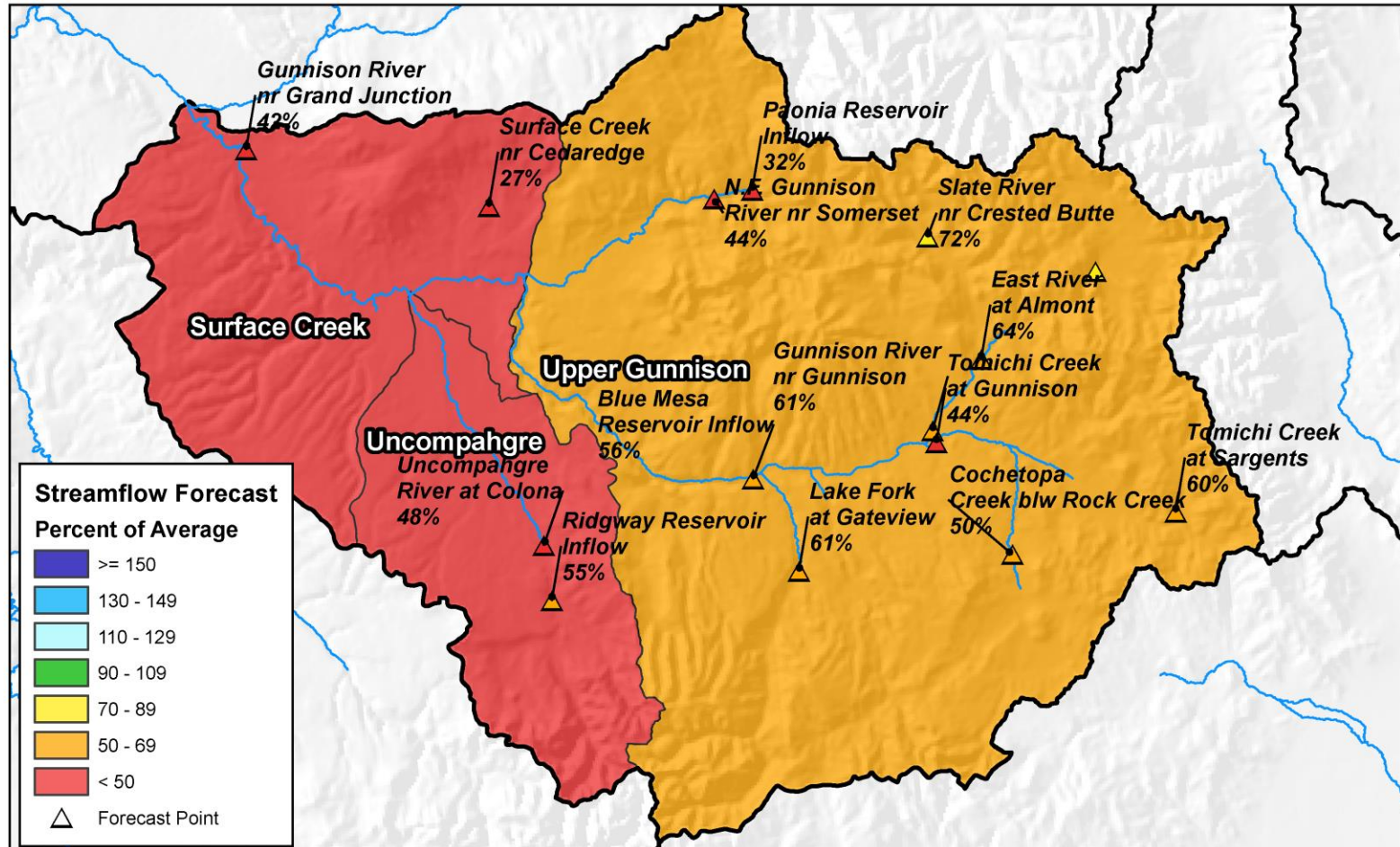
Based on Provisional SNOTEL data as of Feb 21, 2018

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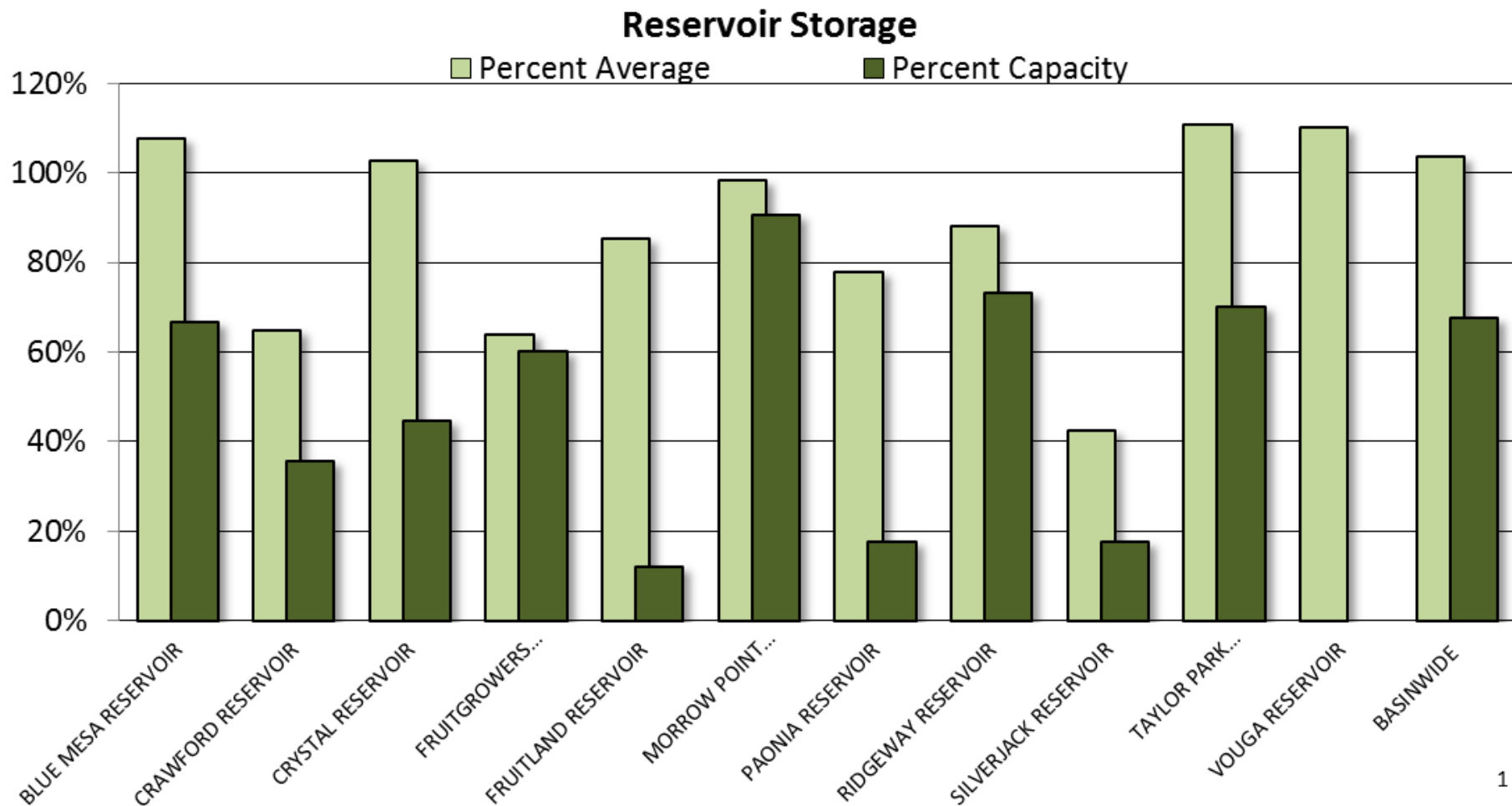


Gunnison River Basin Water Supply Forecast Summary

February 1, 2018

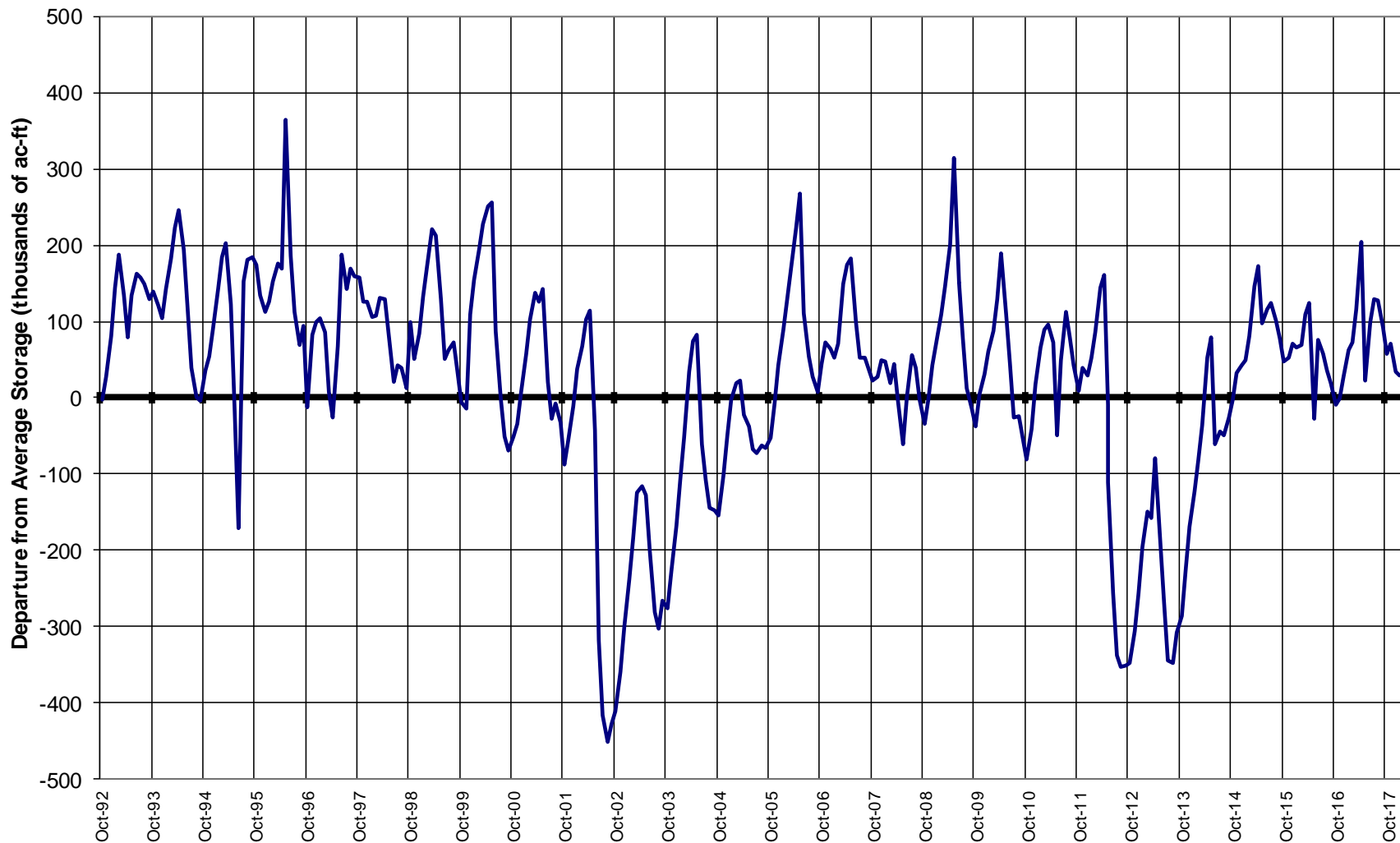


0 5 10 20 30 40 Miles



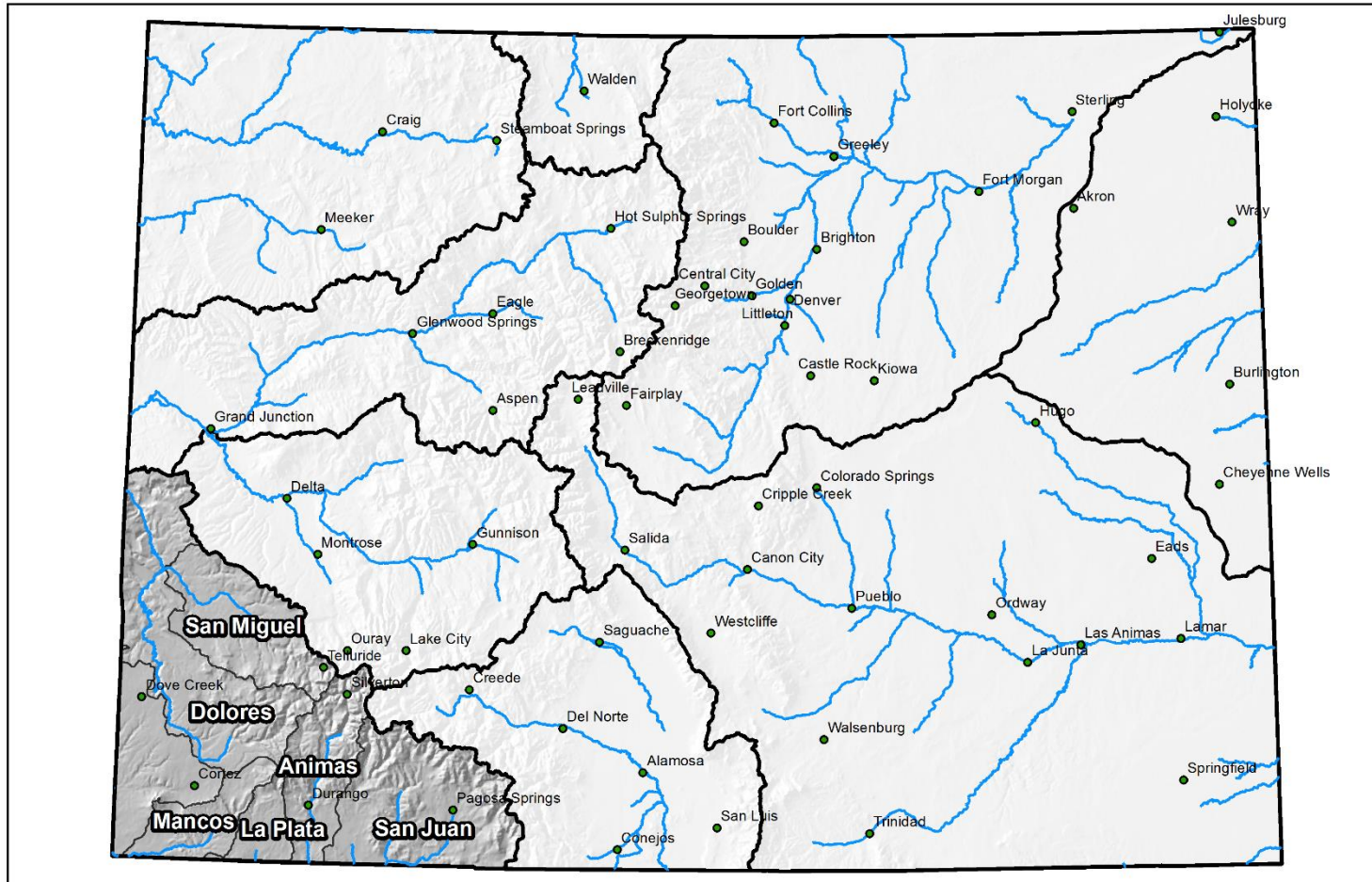


GUNNISON RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

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



0 25 50 100 150 200 Miles



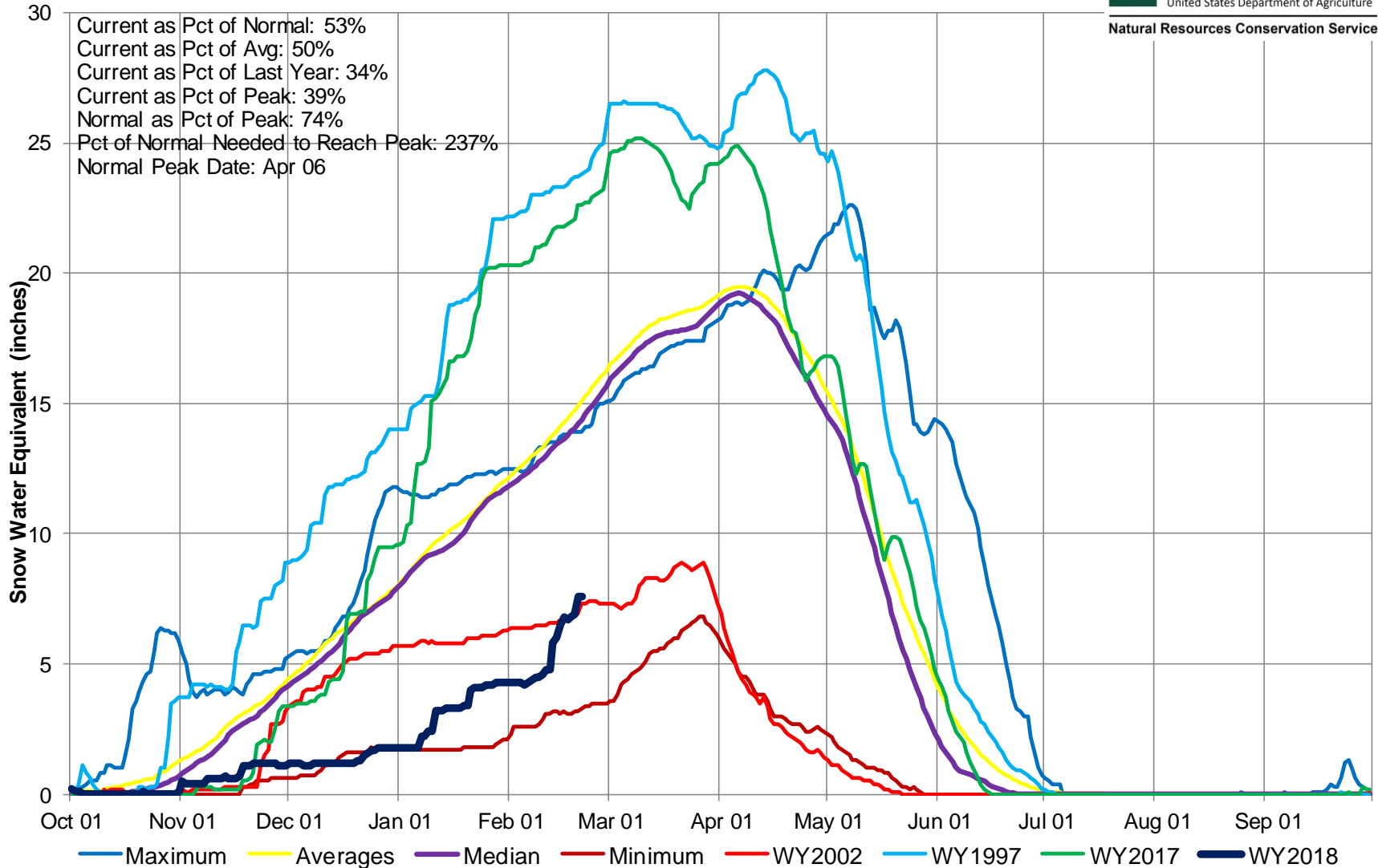
San Miguel, Dolores, Animas and San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



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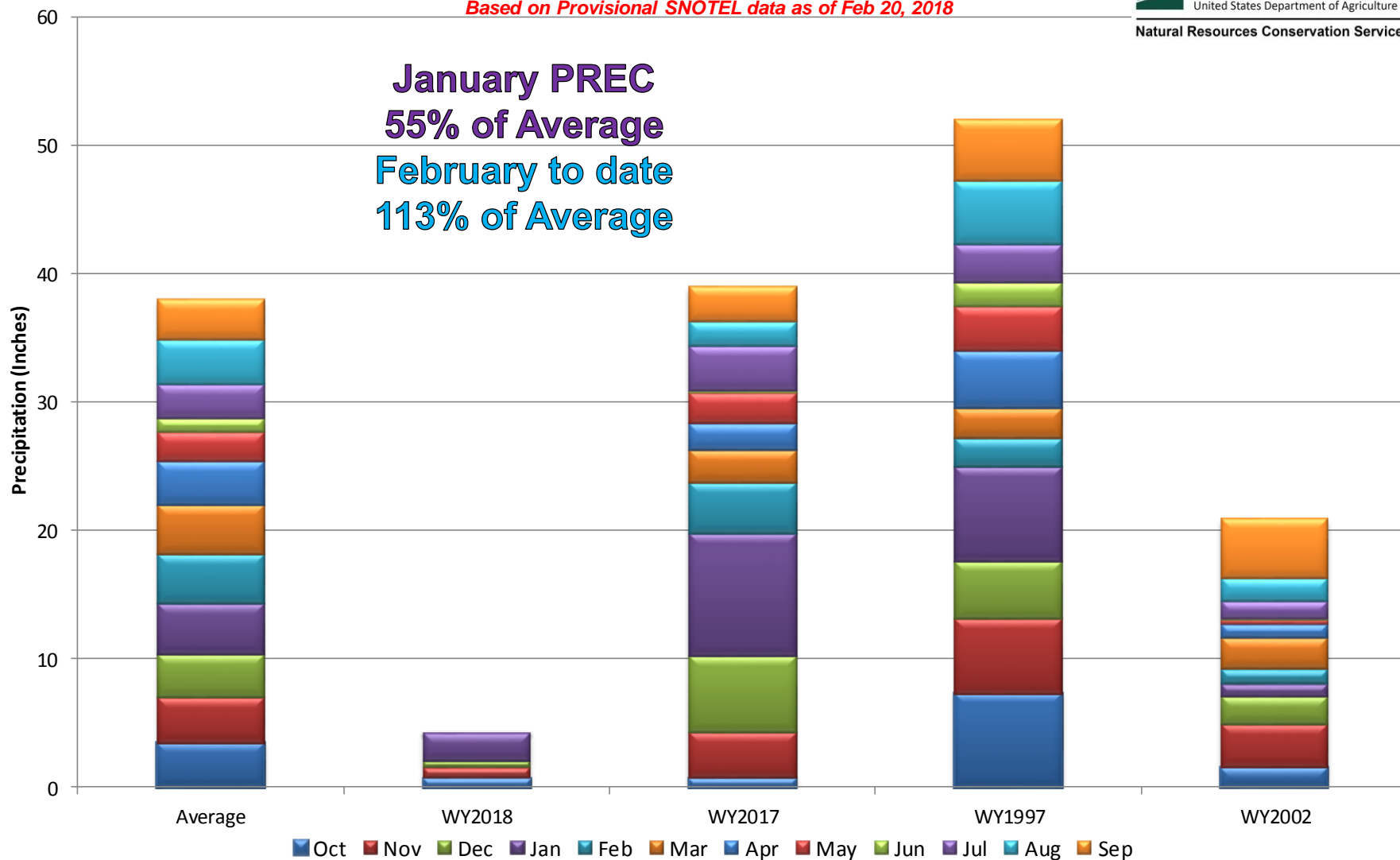
San Miguel, Dolores, Animas and San Juan River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 20, 2018



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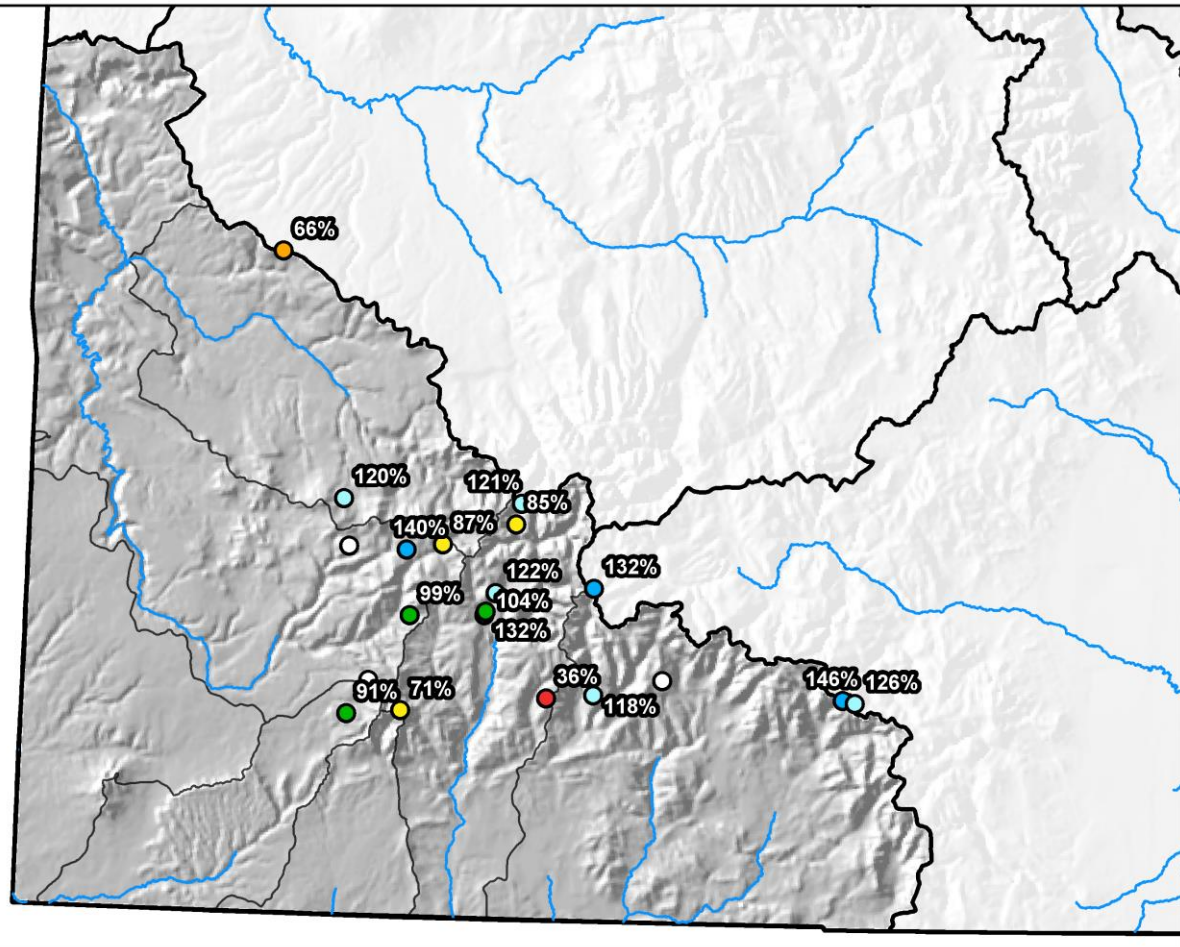


San Miguel, Dolores, Animas, and San Juan River Basins Month to Date Precipitation Summary

Current as of Feb 21, 2018

MTD Precipitation Percent of Average

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



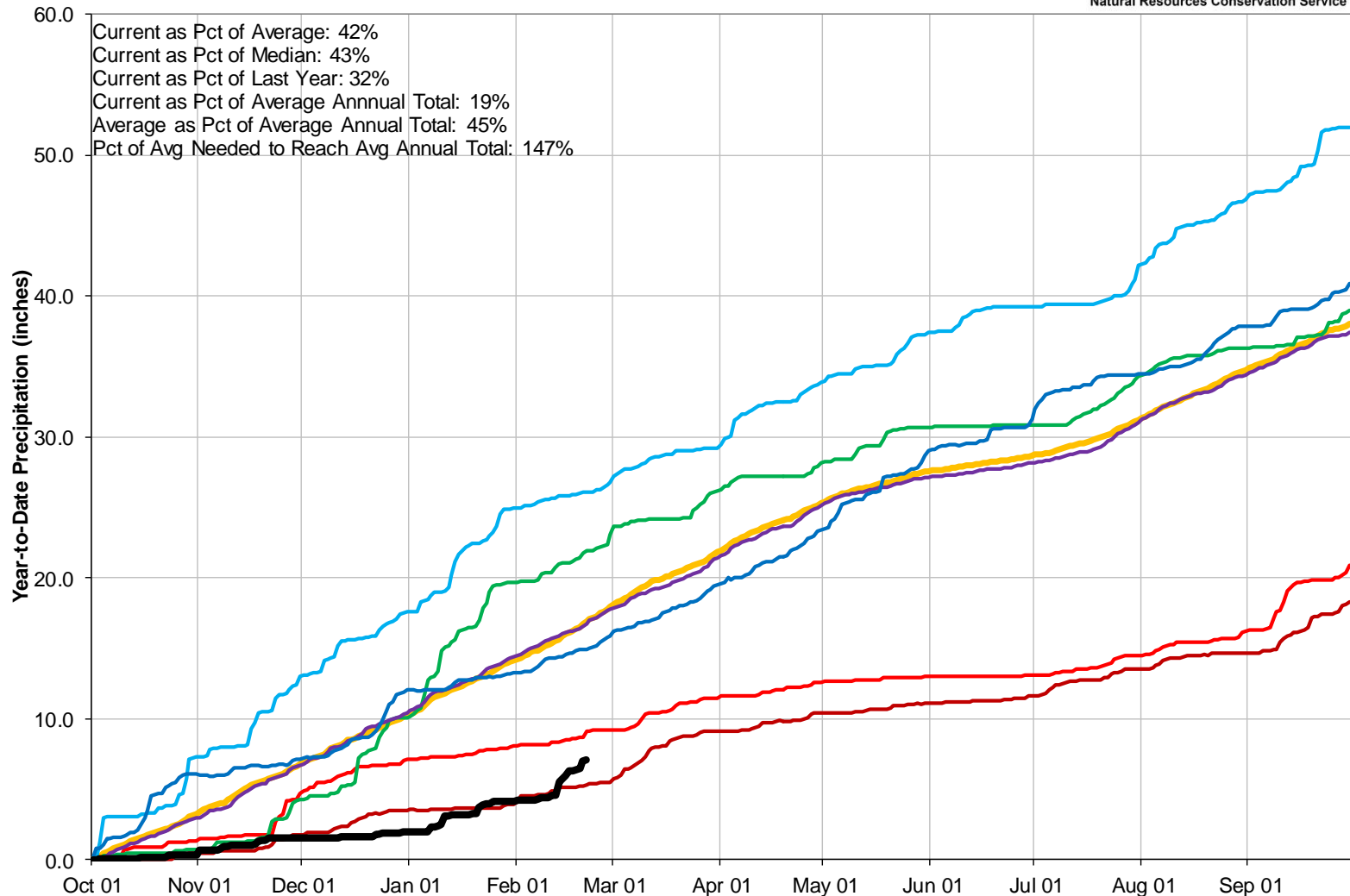
San Miguel, Dolores, Animas and San Juan River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



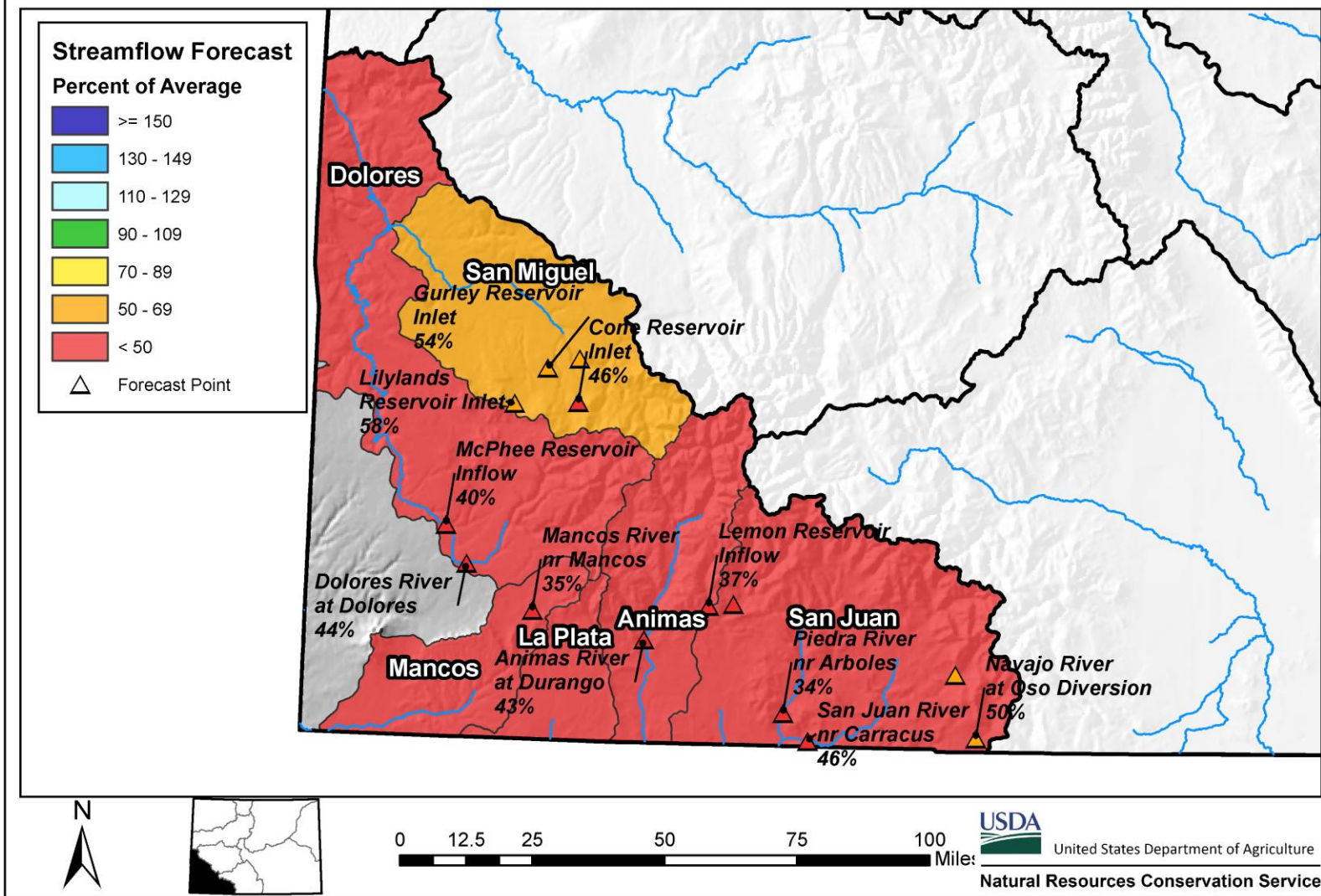
United States Department of Agriculture

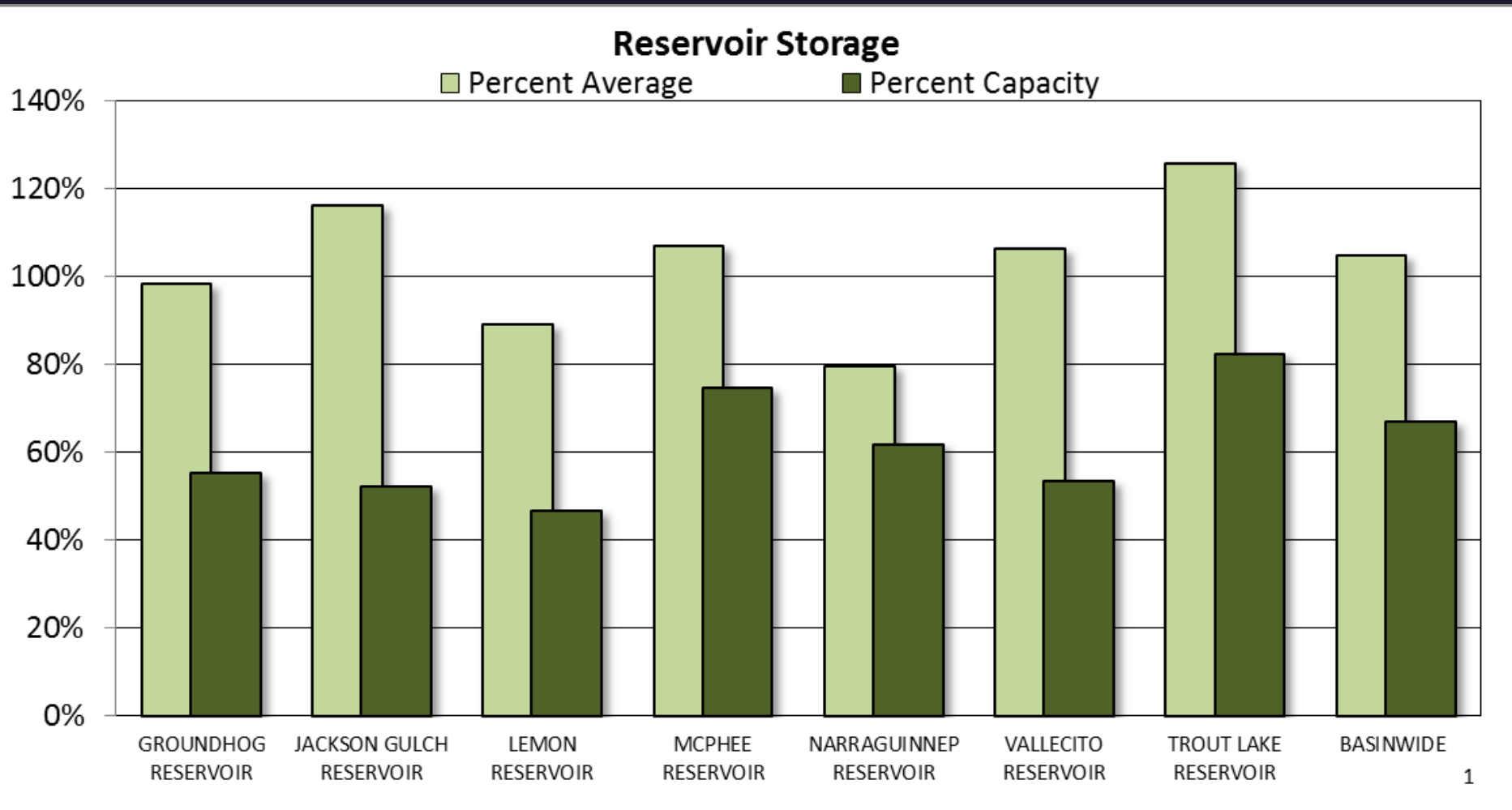
Natural Resources Conservation Service



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

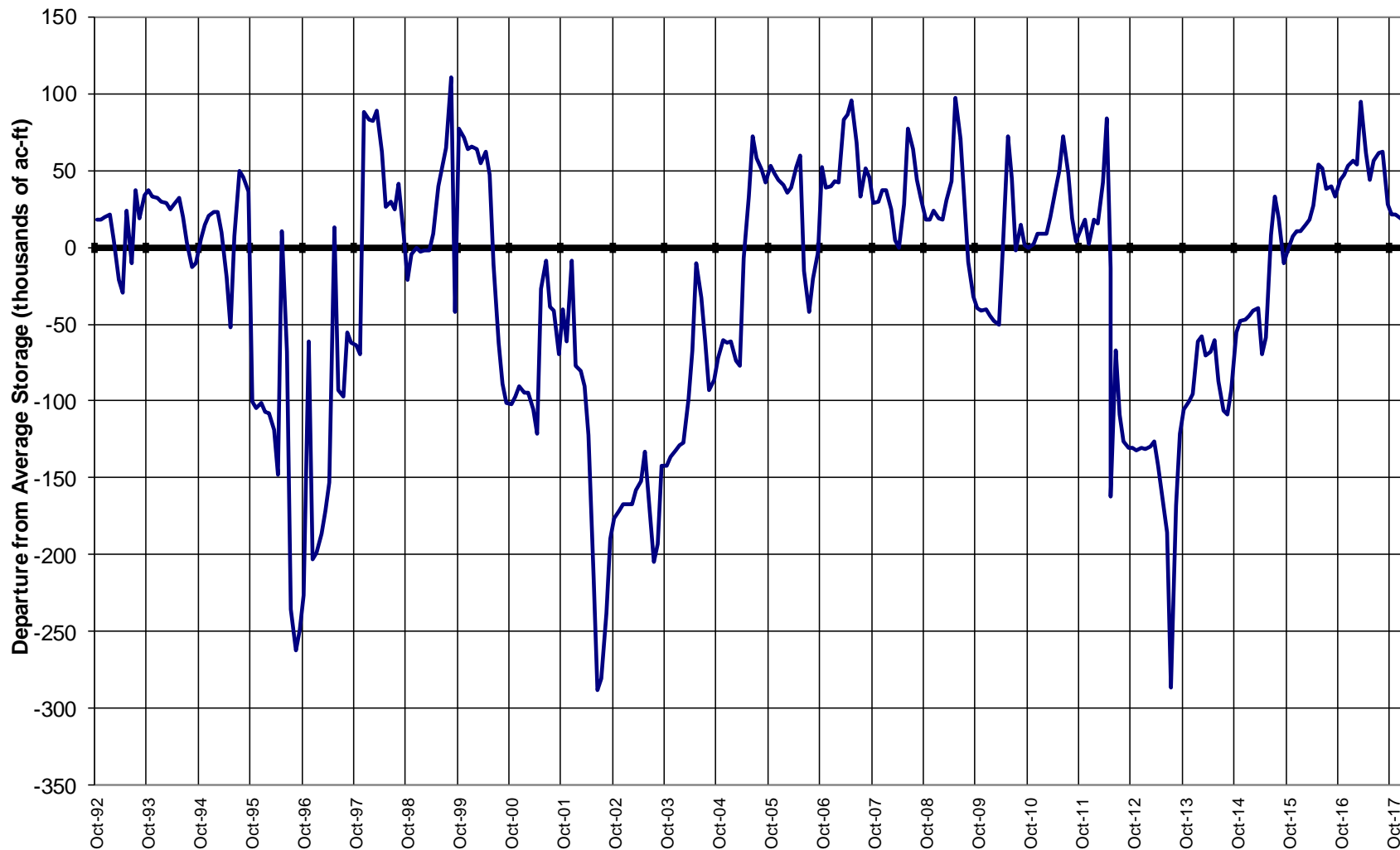
February 1, 2018





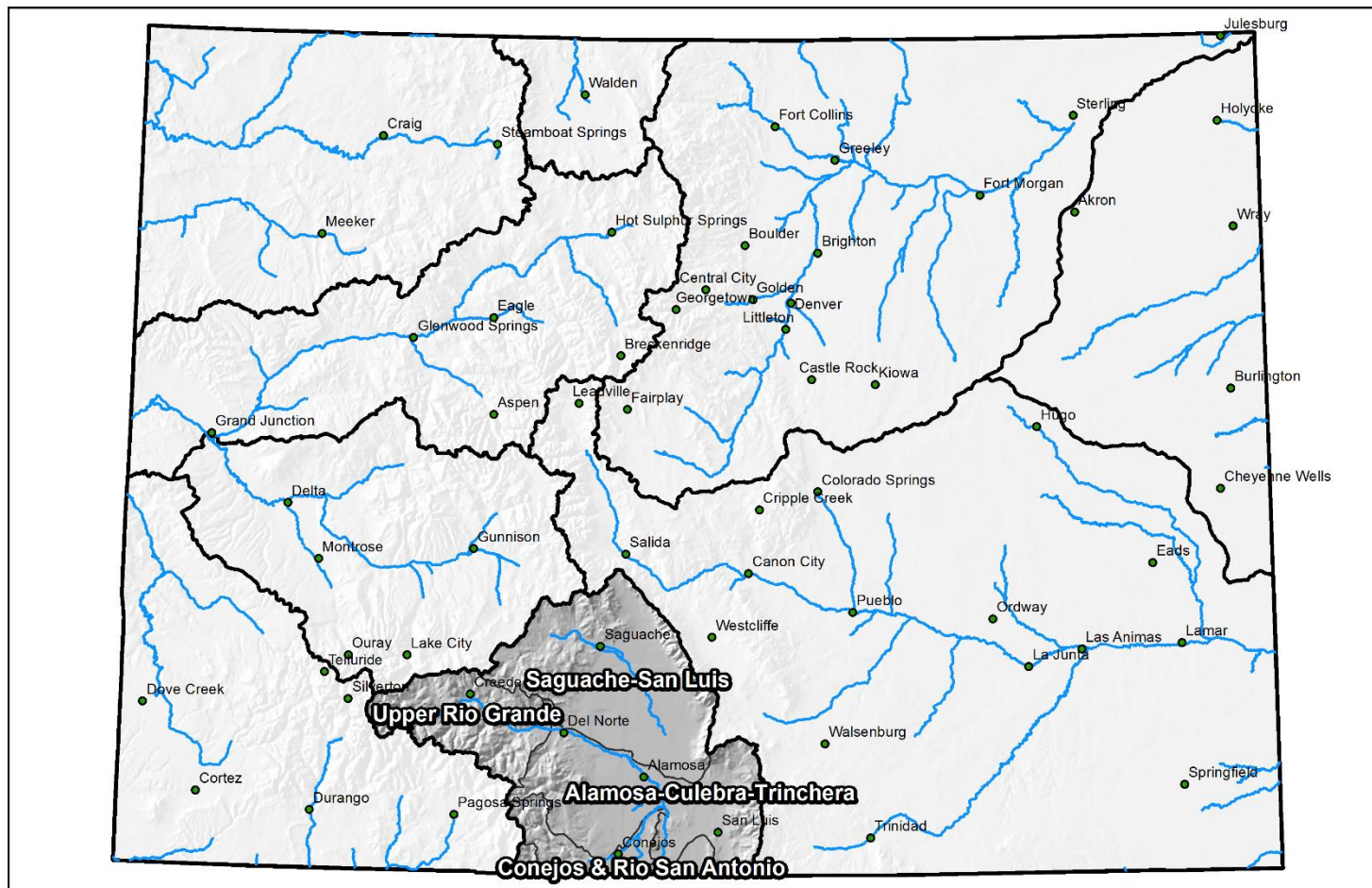
SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

Reservoir Storage Departure from Average



Major Basin Summary

Upper Rio Grande River Basin





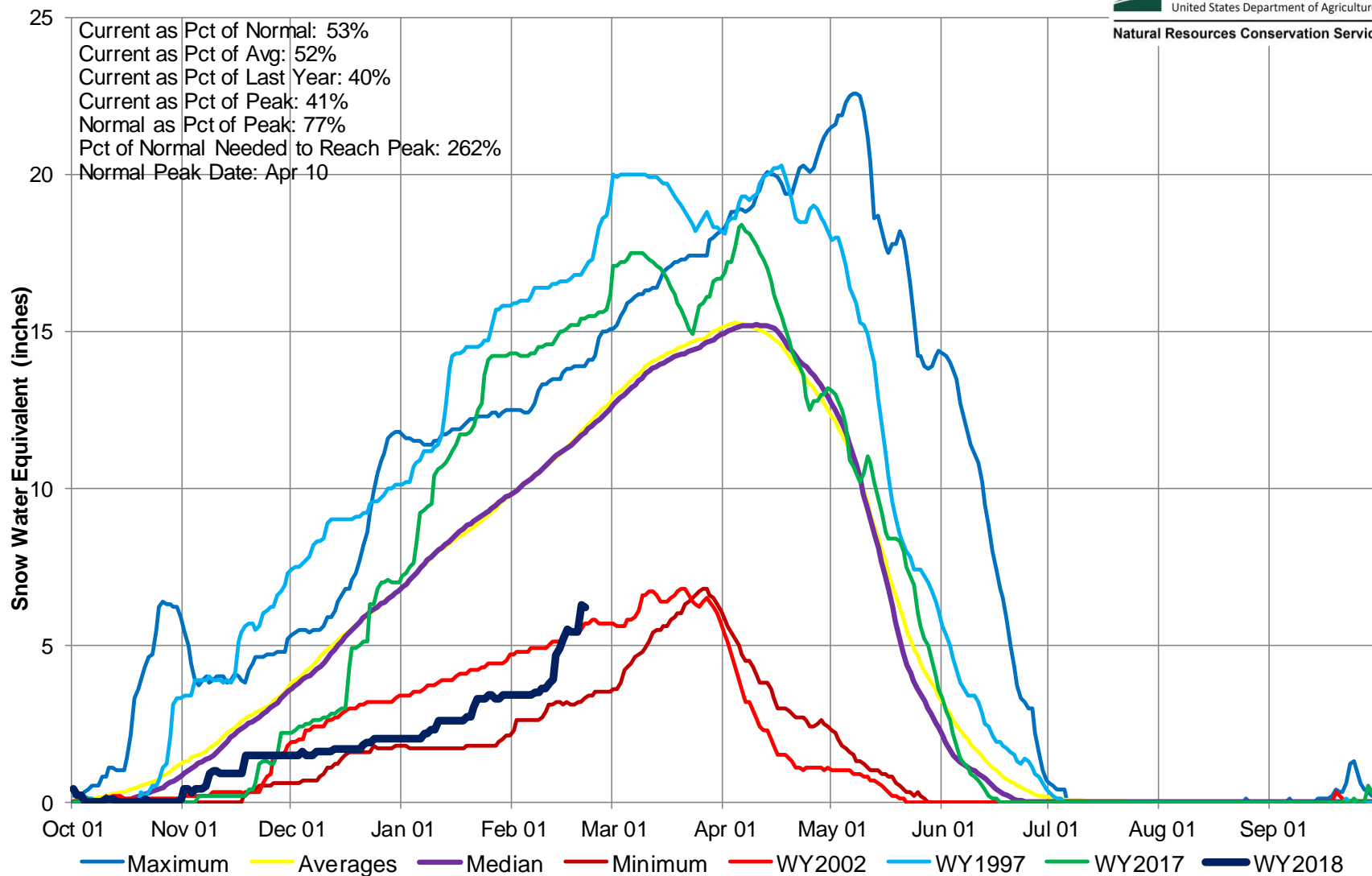
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



United States Department of Agriculture

Natural Resources Conservation Service



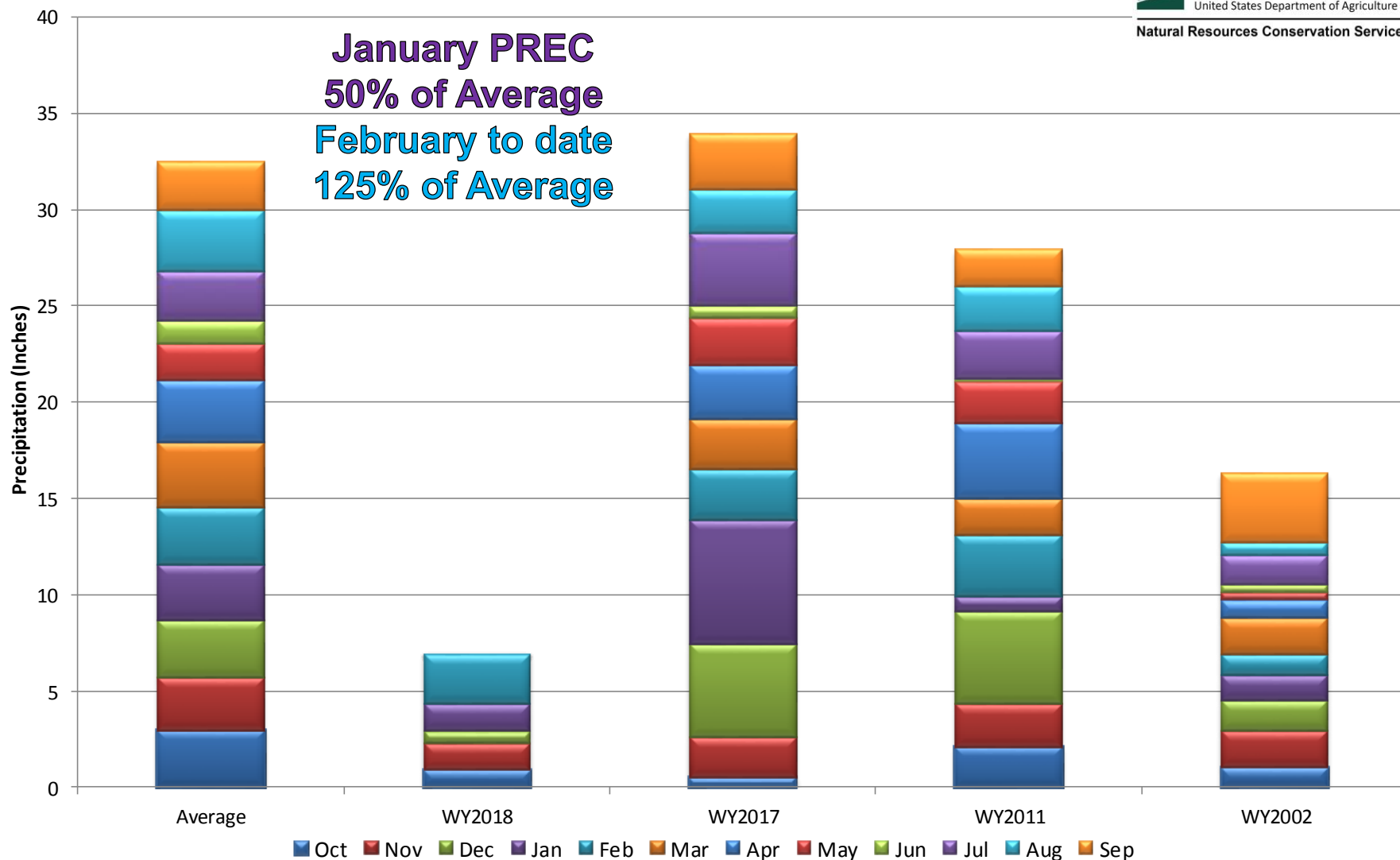
Upper Rio Grande River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



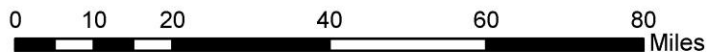
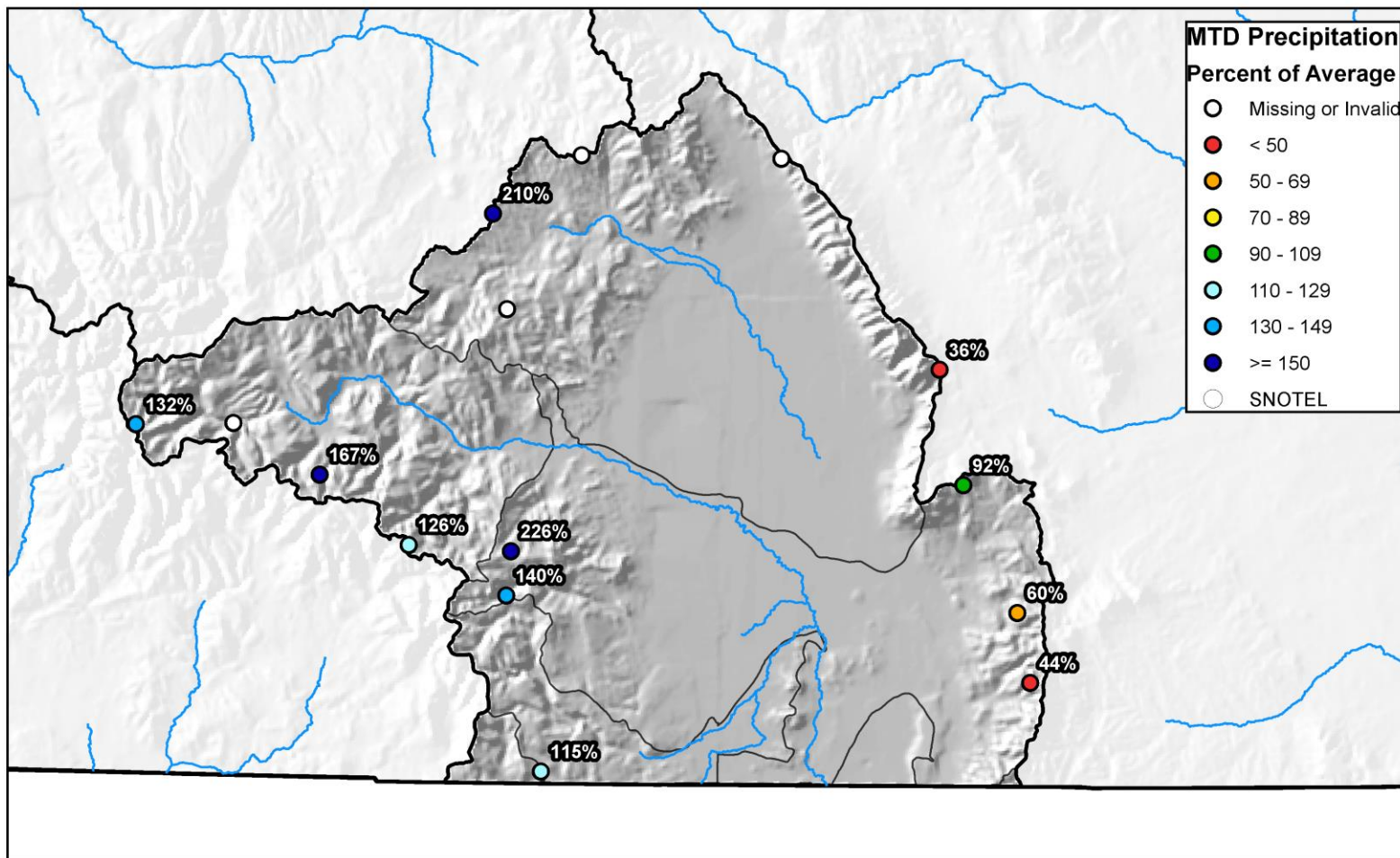
United States Department of Agriculture

Natural Resources Conservation Service



Upper Rio Grande River Basin Month to Date Precipitation Summary

Current as of Feb 21, 2018





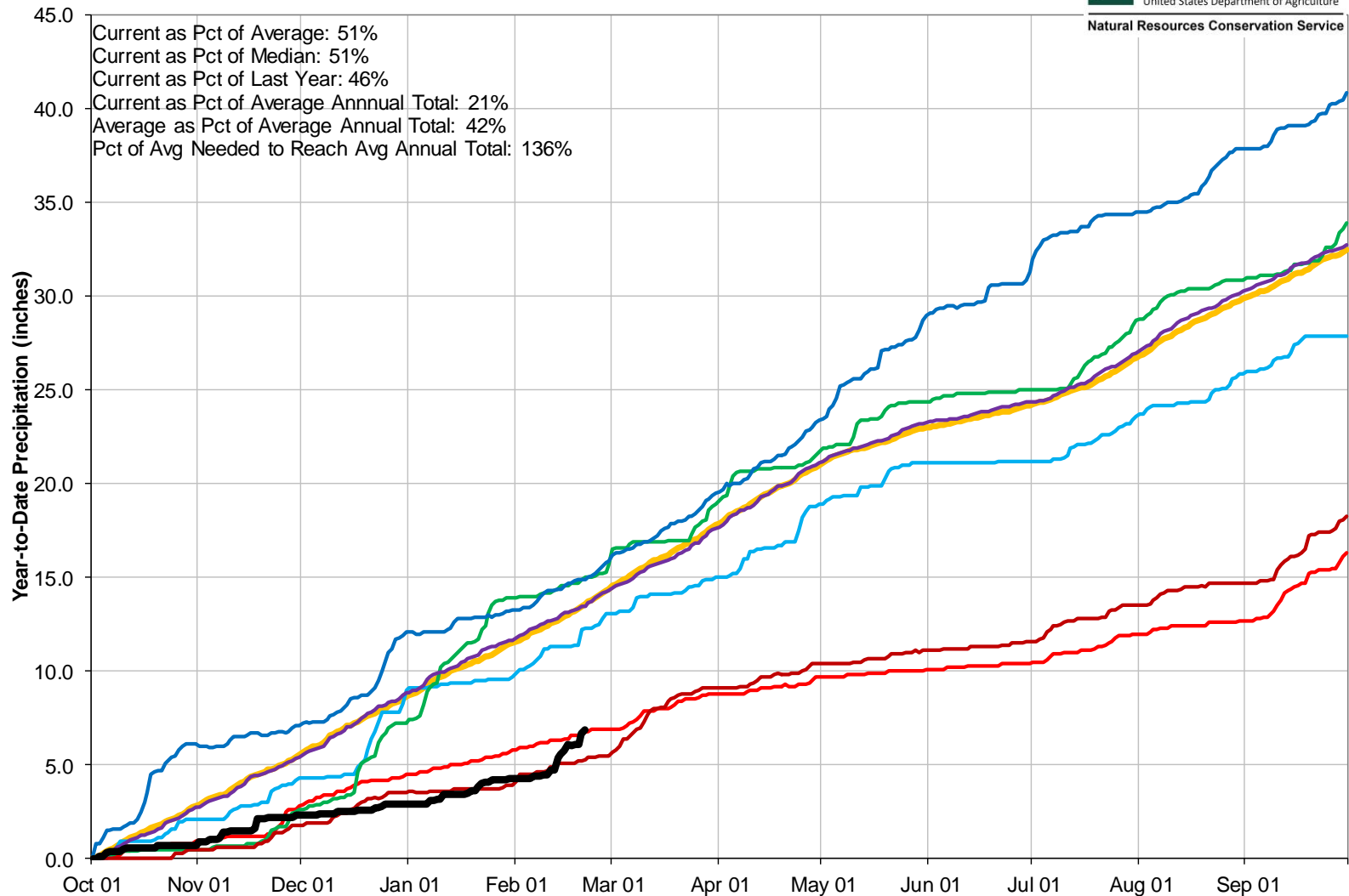
Upper Rio Grande River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



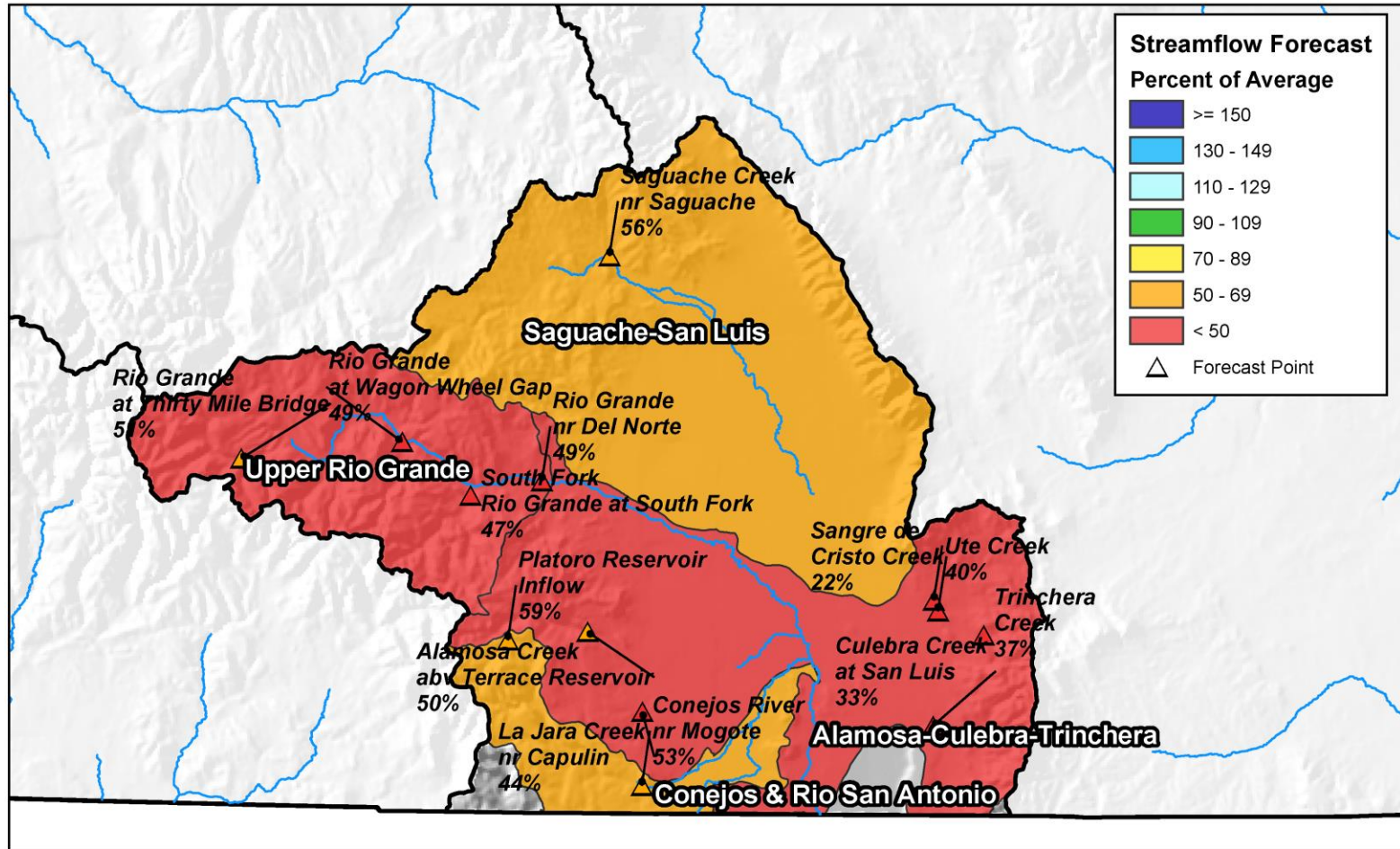
United States Department of Agriculture

Natural Resources Conservation Service

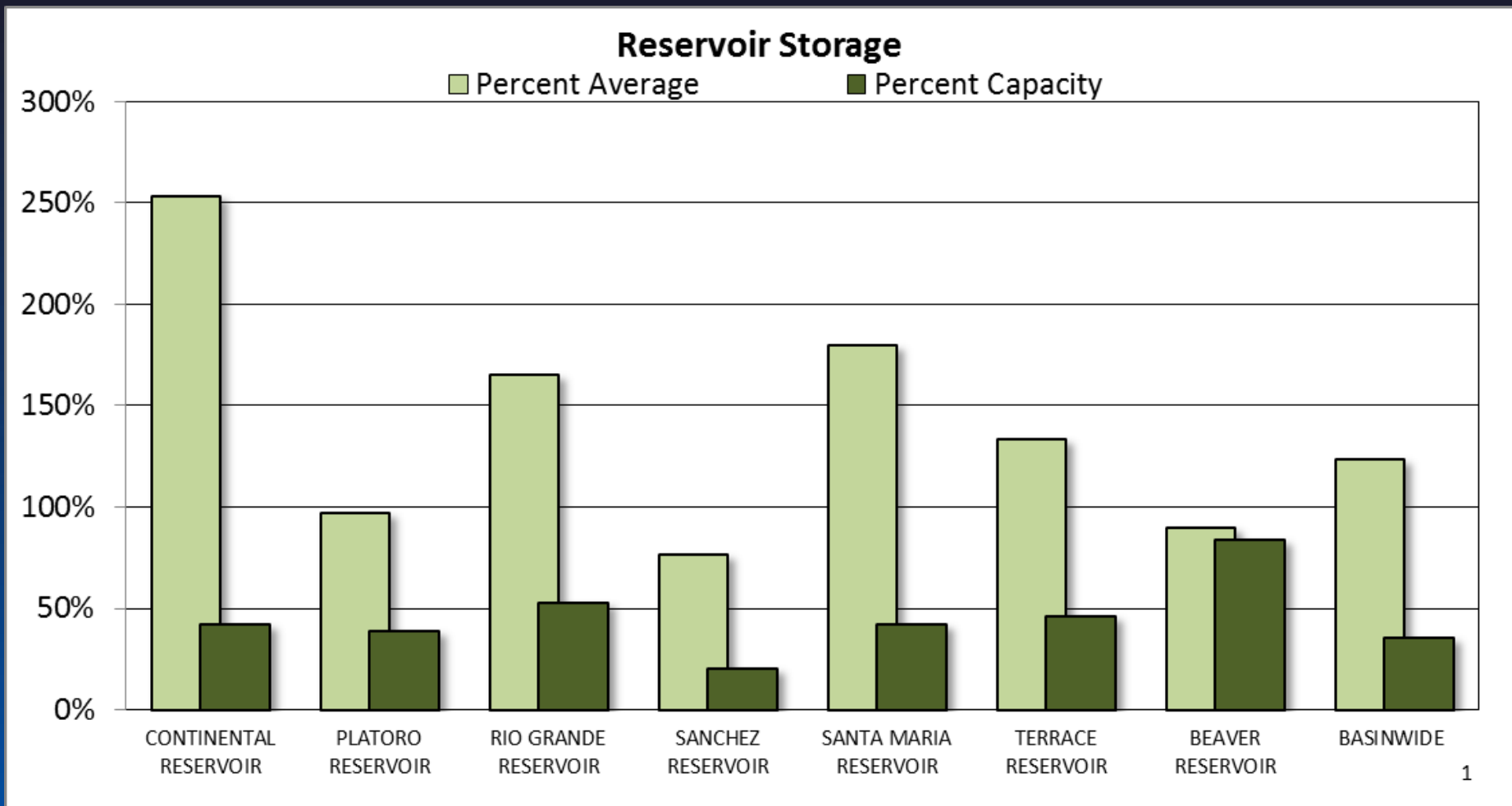


Upper Rio Grande River Basin Streamflow Forecast Summary

February 1, 2018

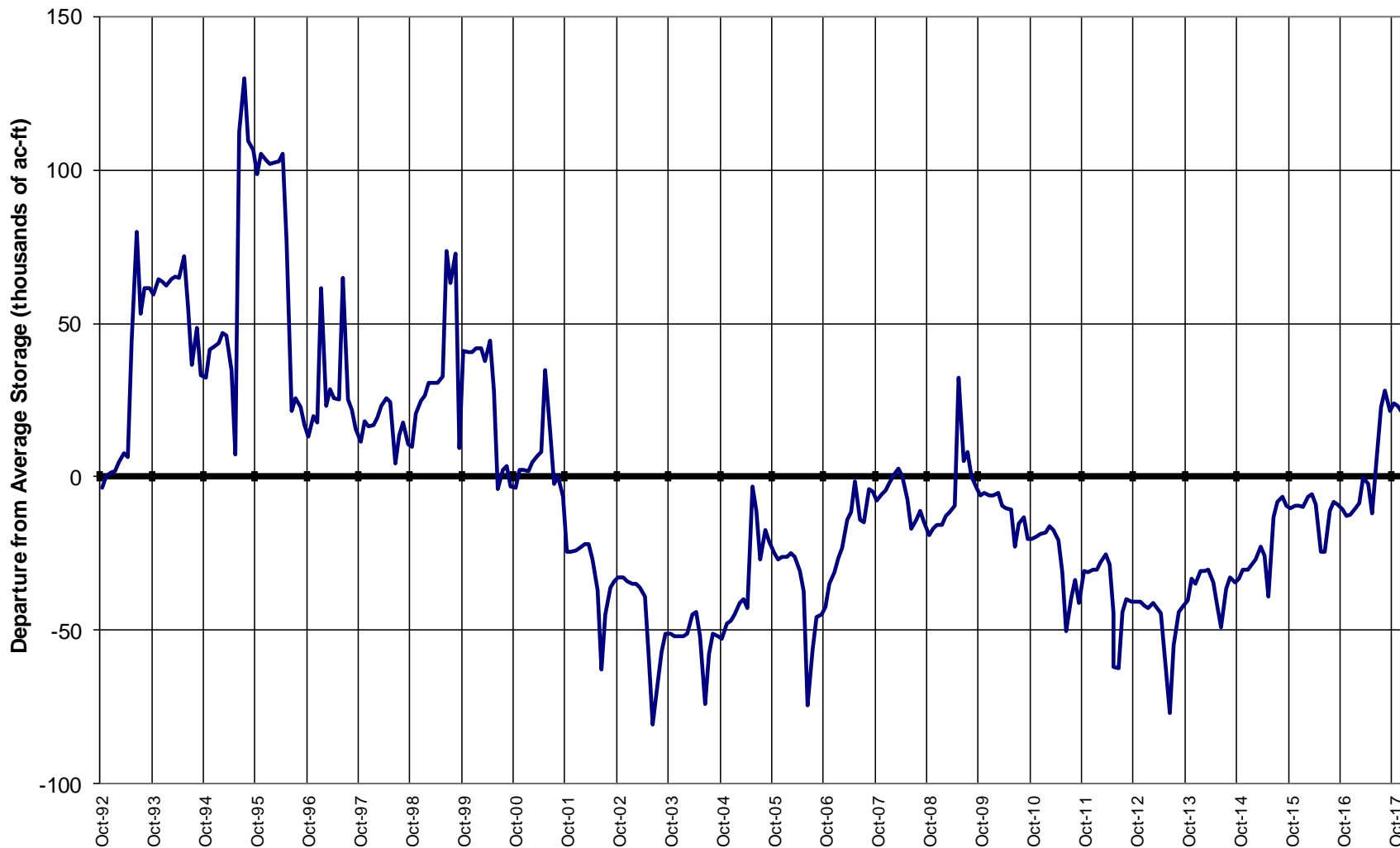


0 10 20 40 60 80 Miles



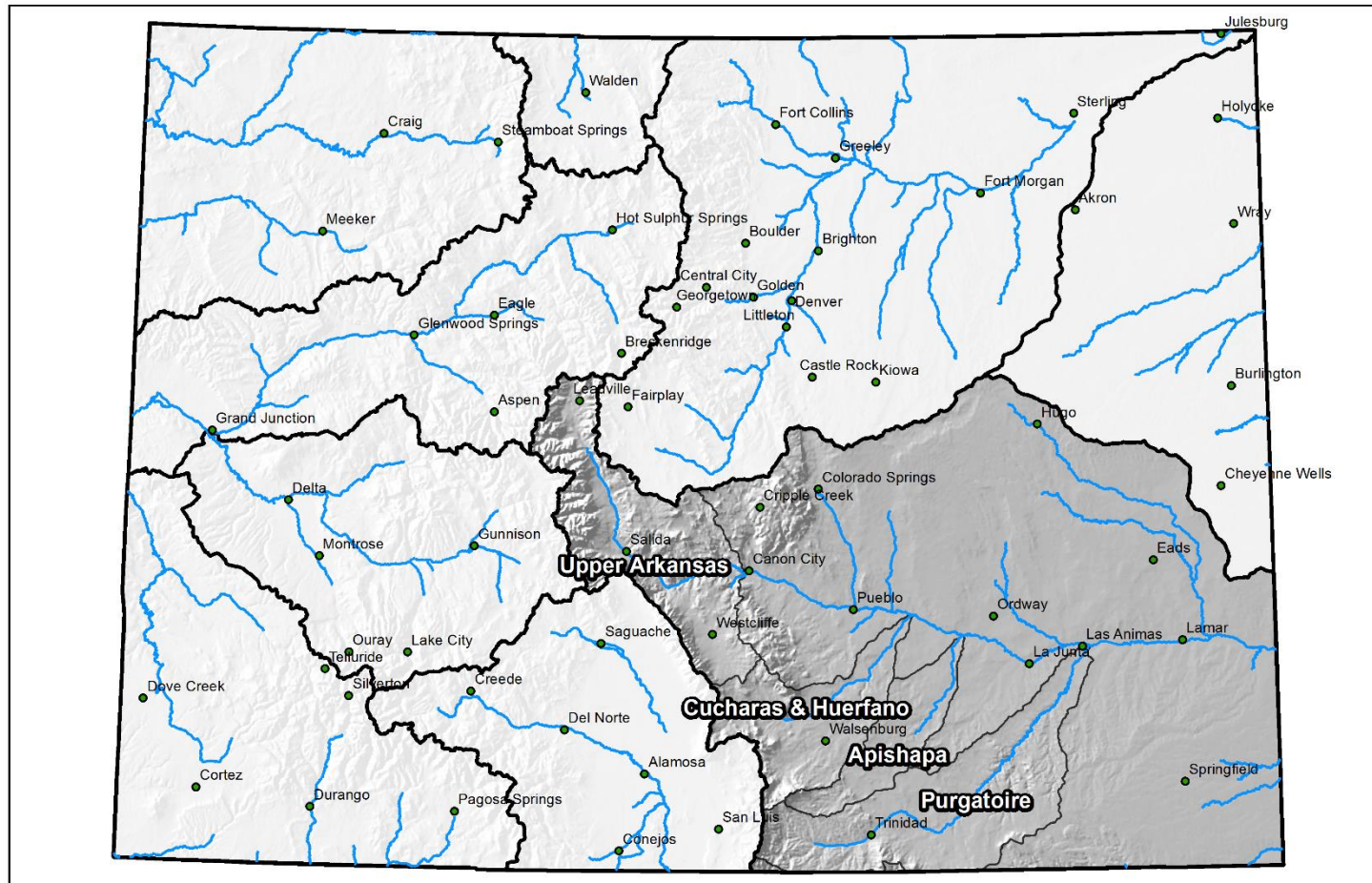


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



Major Basin Summary

Arkansas River Basin



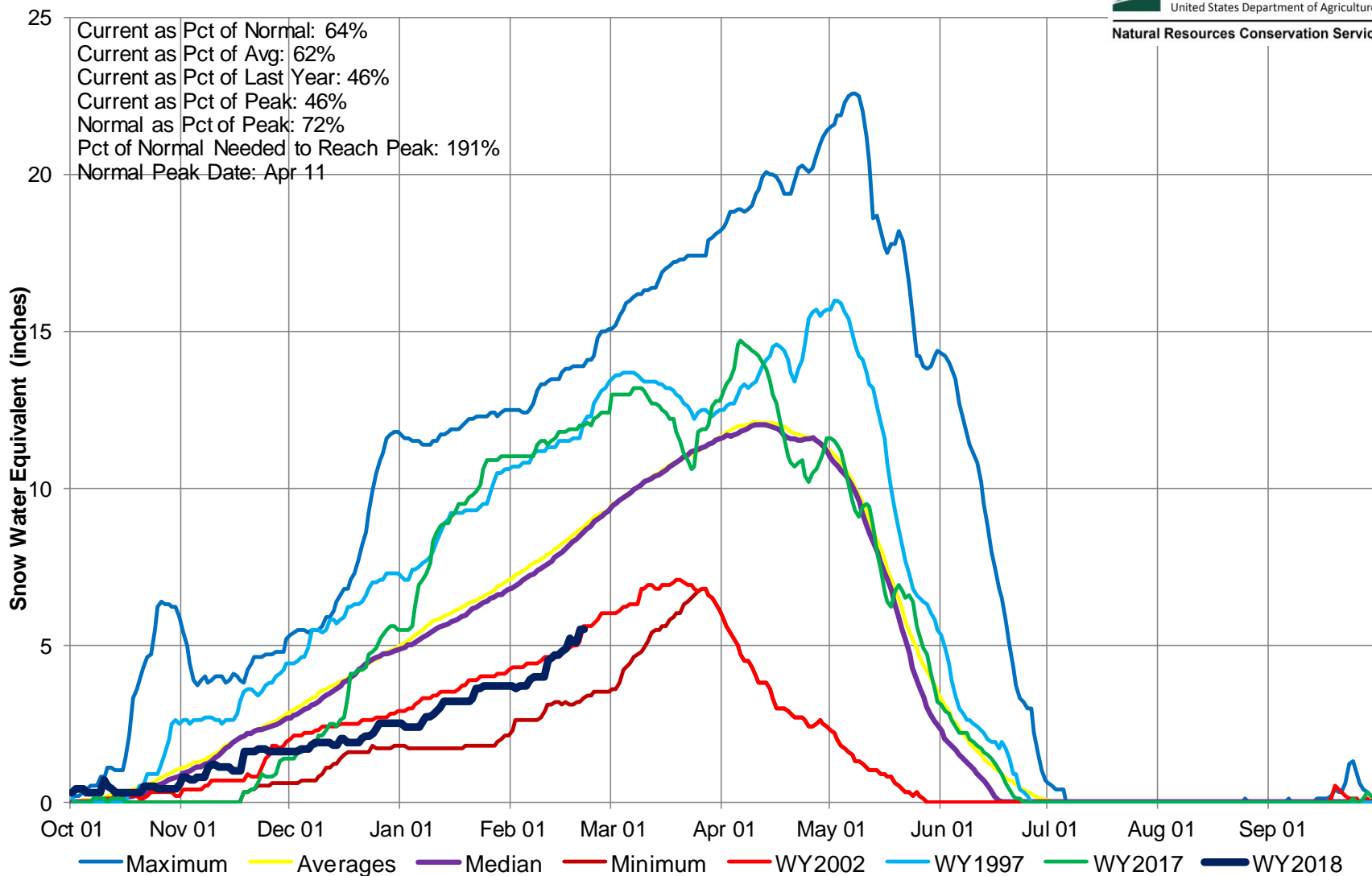
0 25 50 100 150 200 Miles



Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 21, 2018

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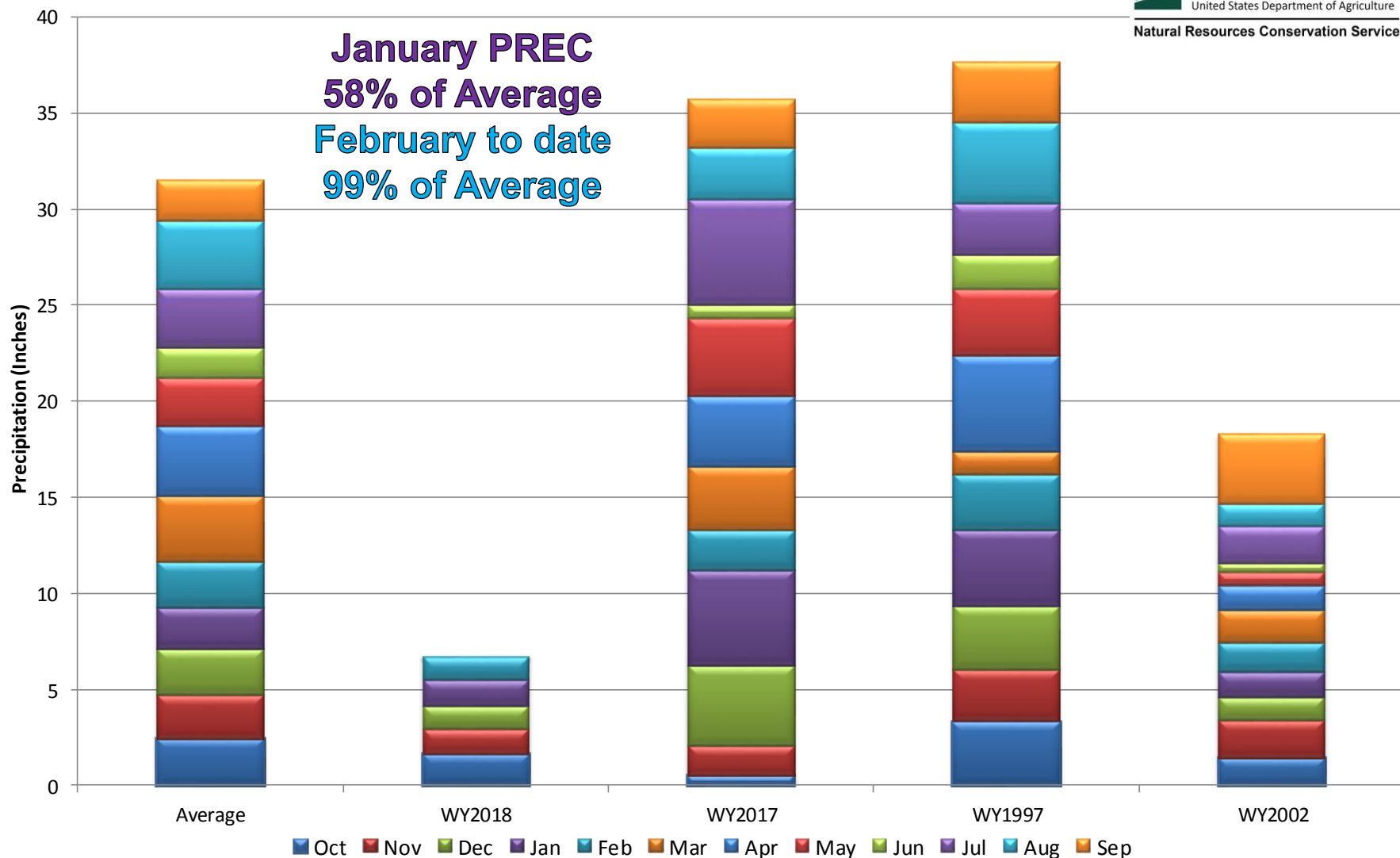
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



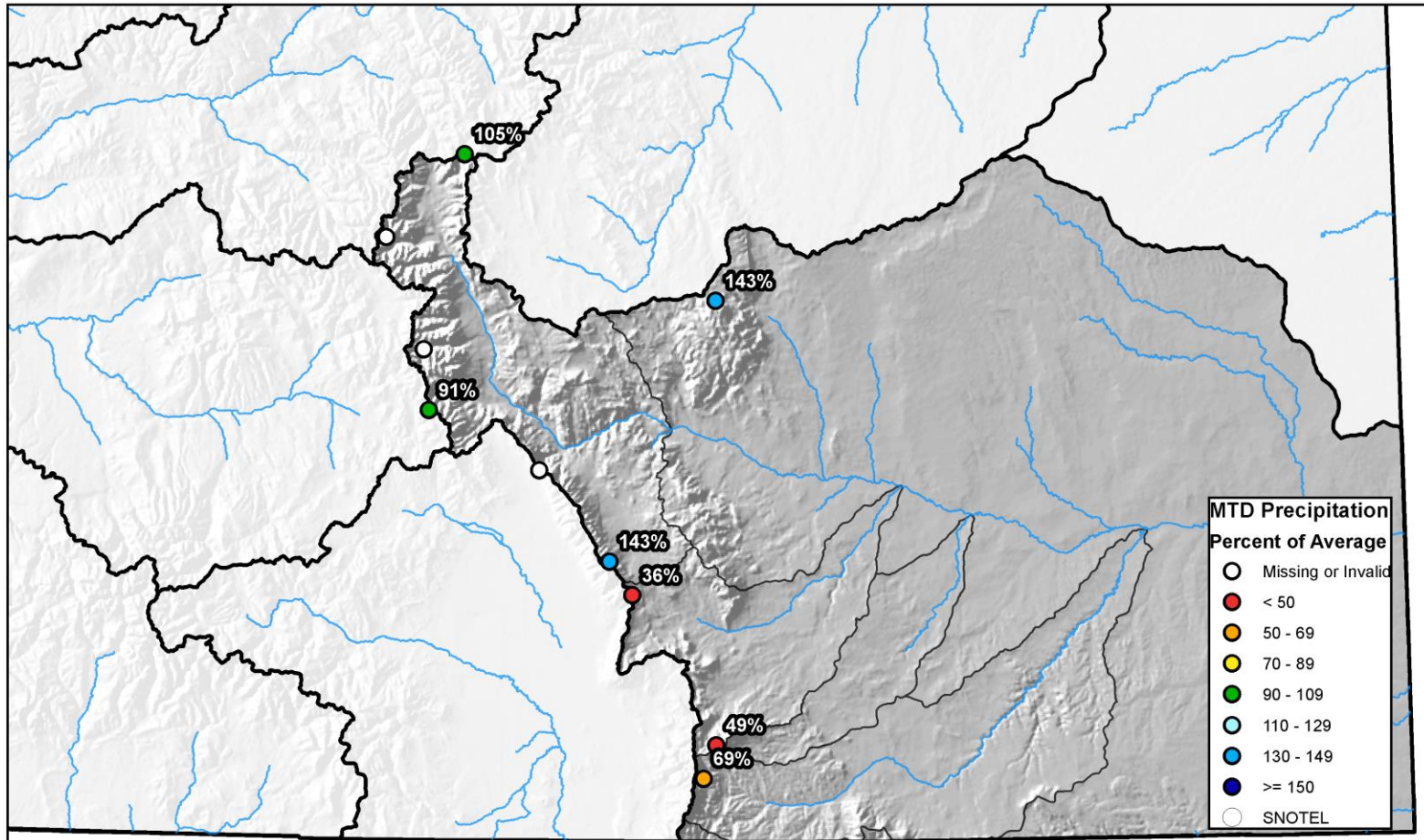
United States Department of Agriculture

Natural Resources Conservation Service



Arkansas River Basin Month to Date Precipitation Summary

Current as of Feb 21, 2018



0 10 20 40 60 80 Miles



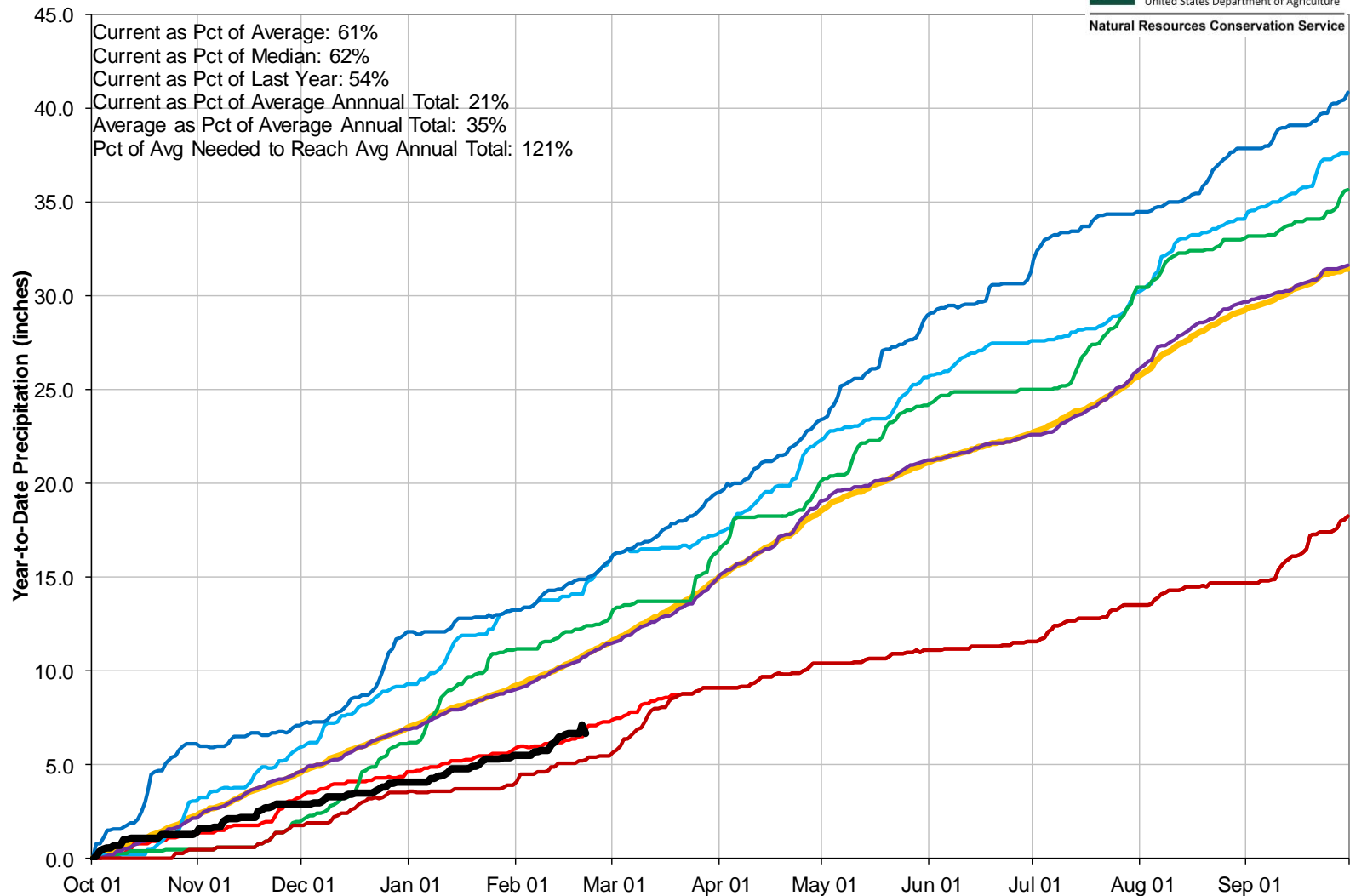
Arkansas River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



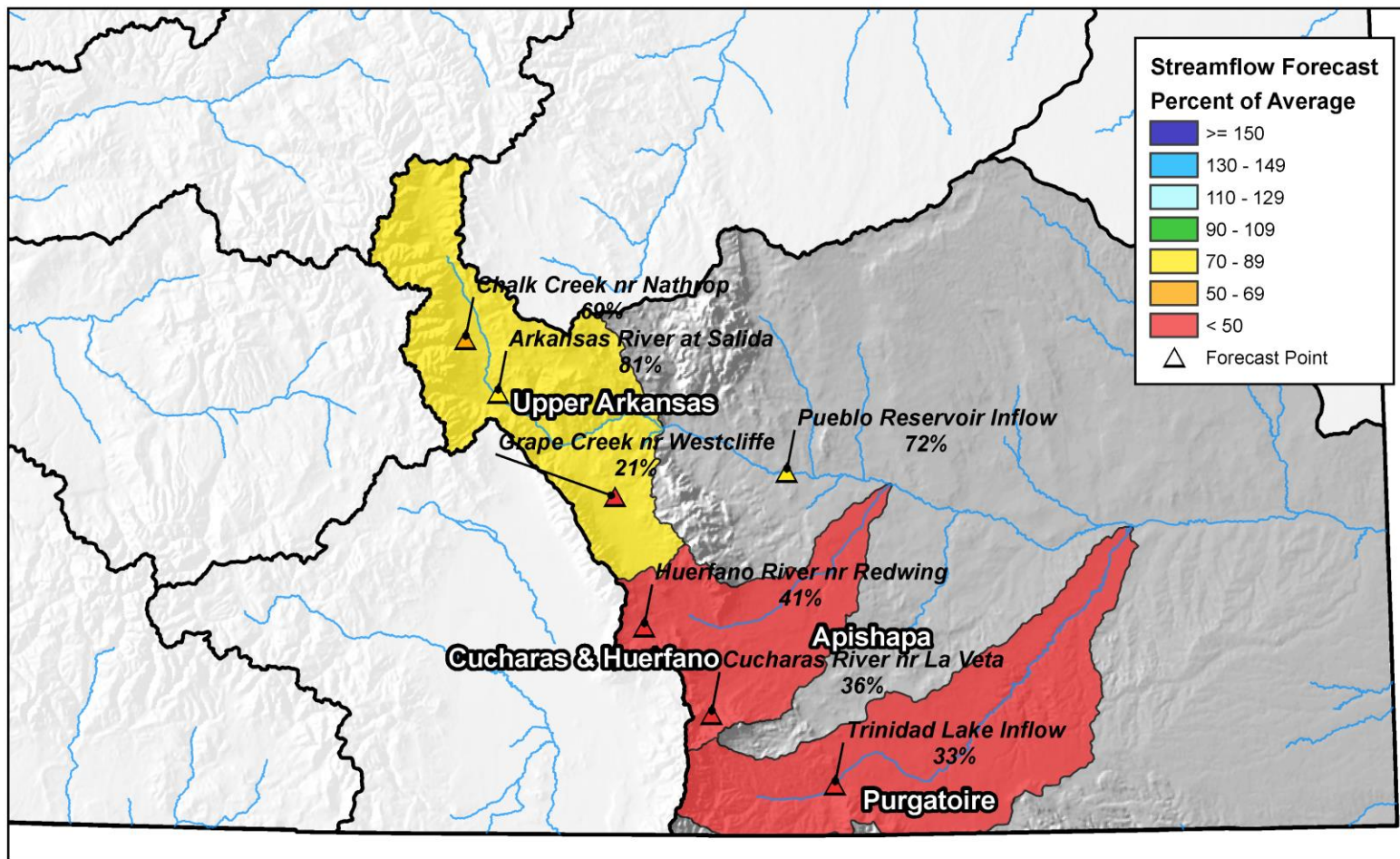
United States Department of Agriculture

Natural Resources Conservation Service

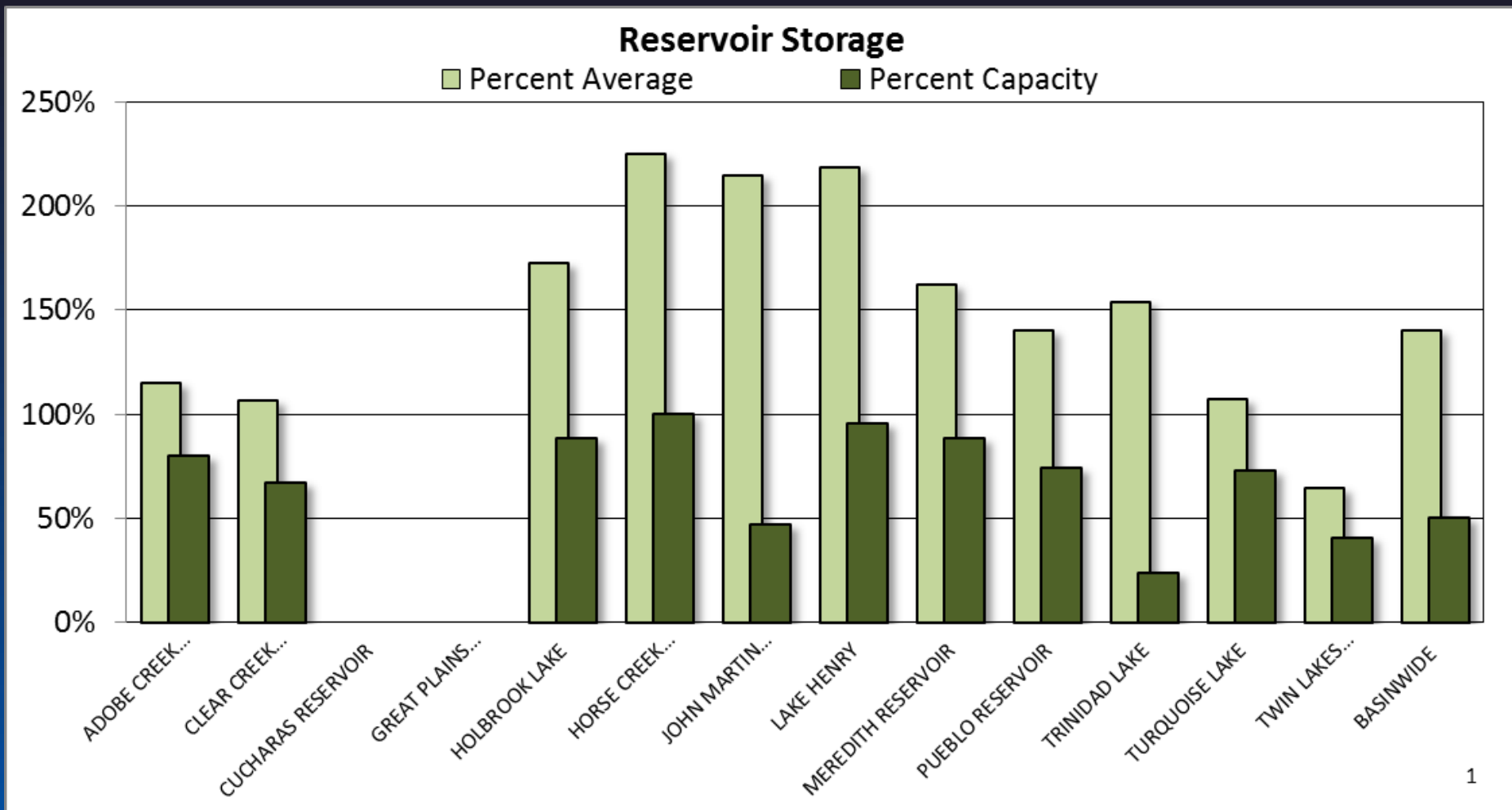


Arkansas River Basin Streamflow Forecast Summary

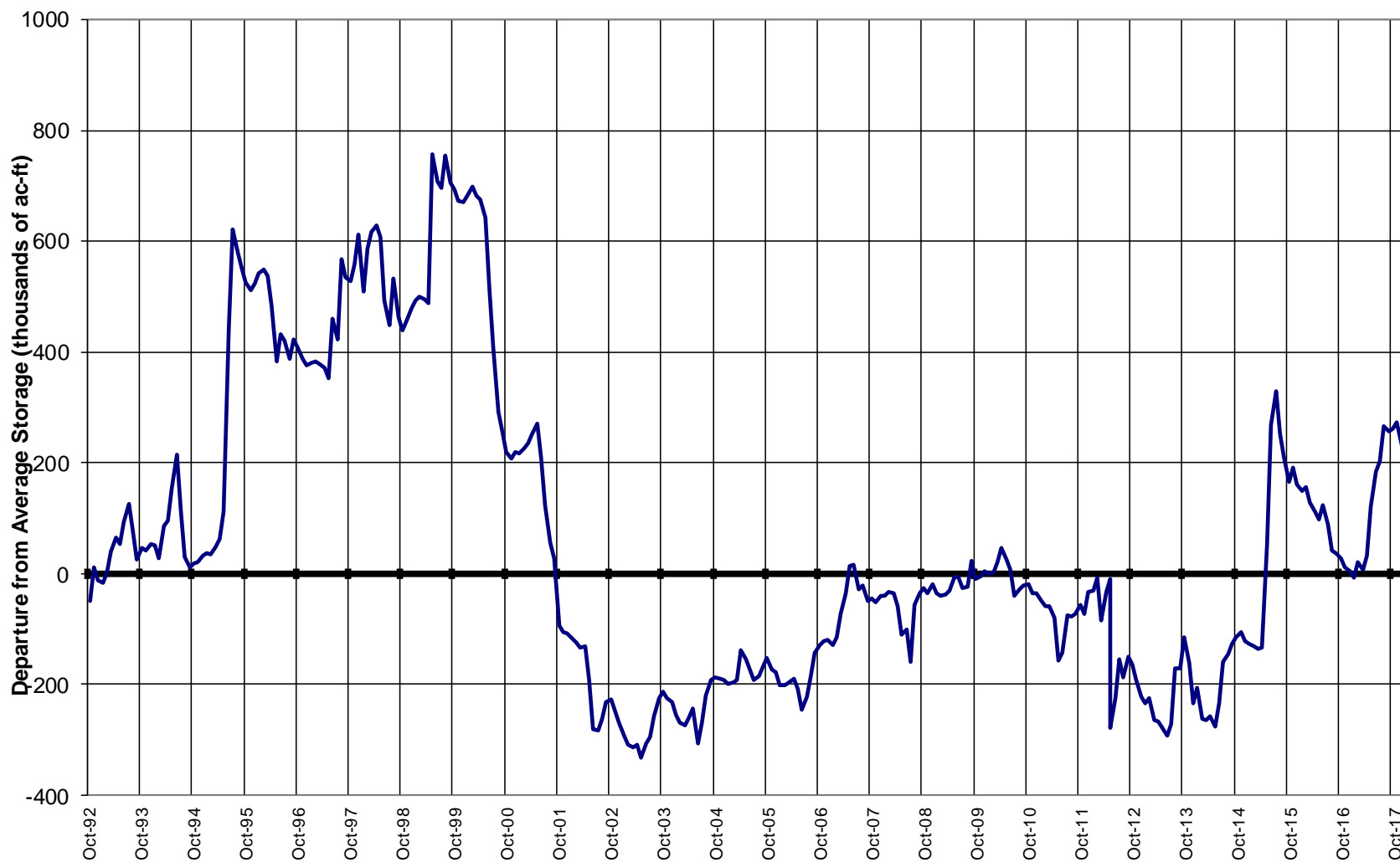
February 1, 2018



0 10 20 40 60 80 Miles

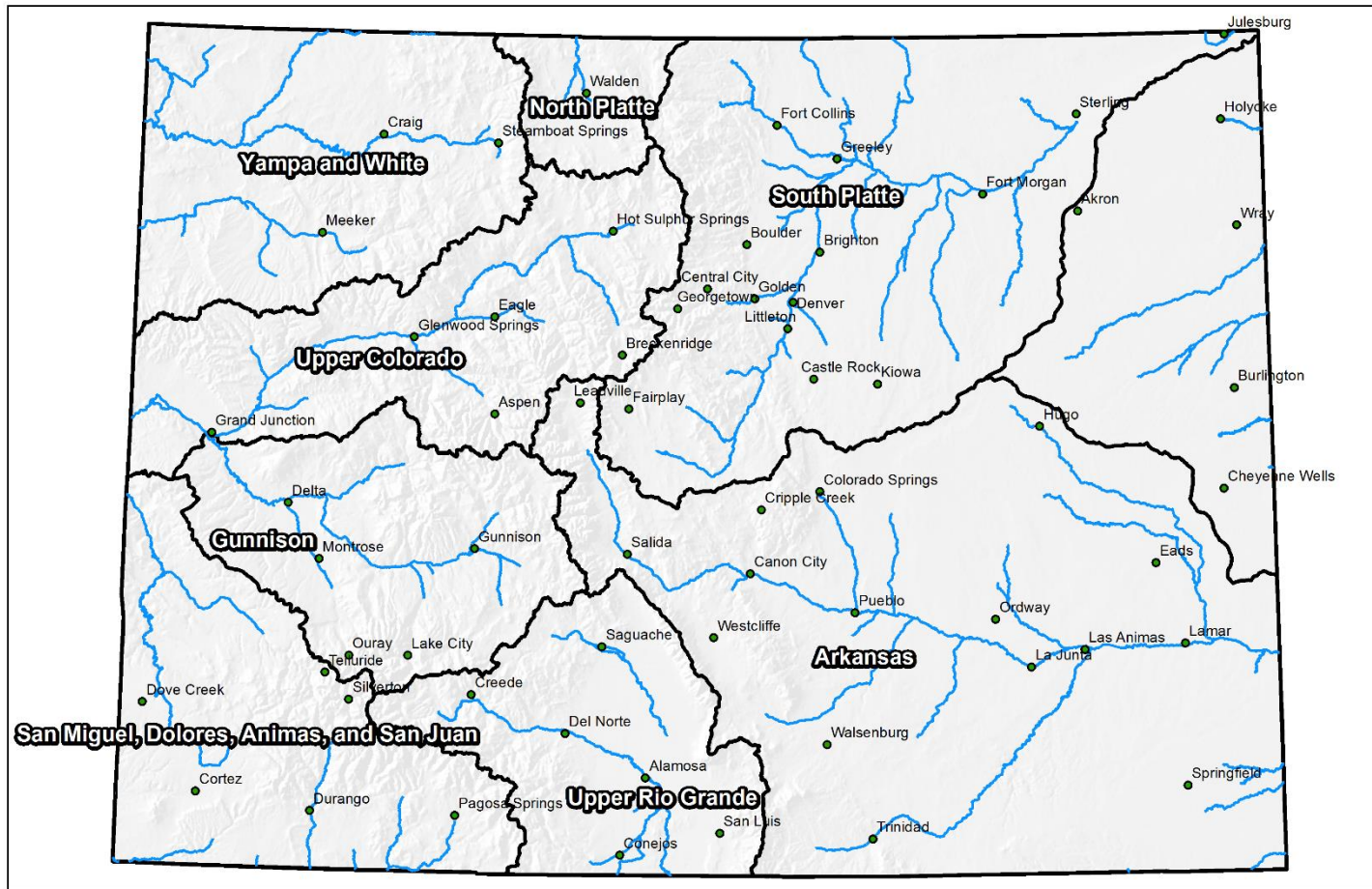


ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



Colorado Statewide Summary

Colorado Major Basins



0 25 50 100 150 200 Miles



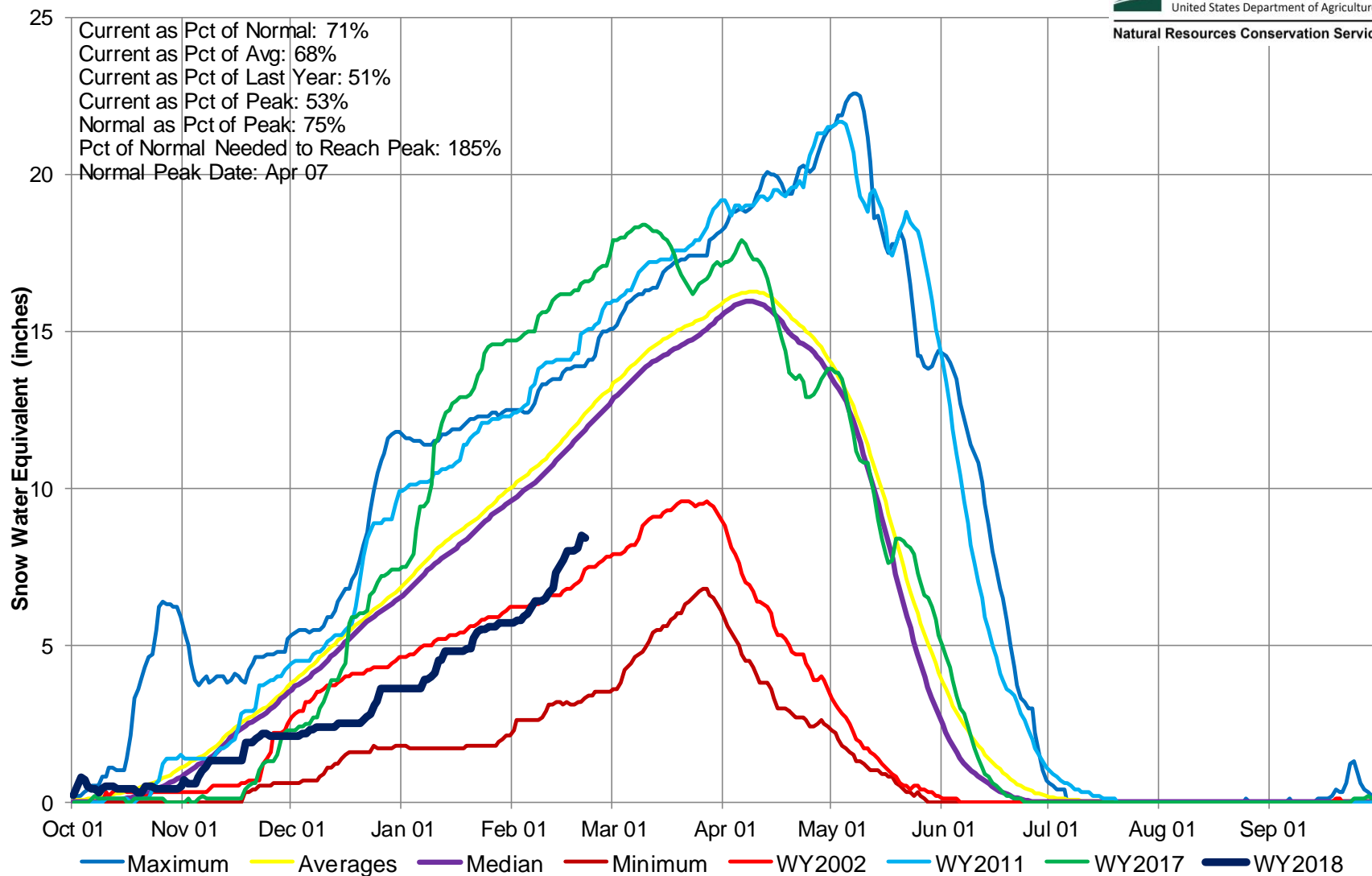
Colorado Statewide High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



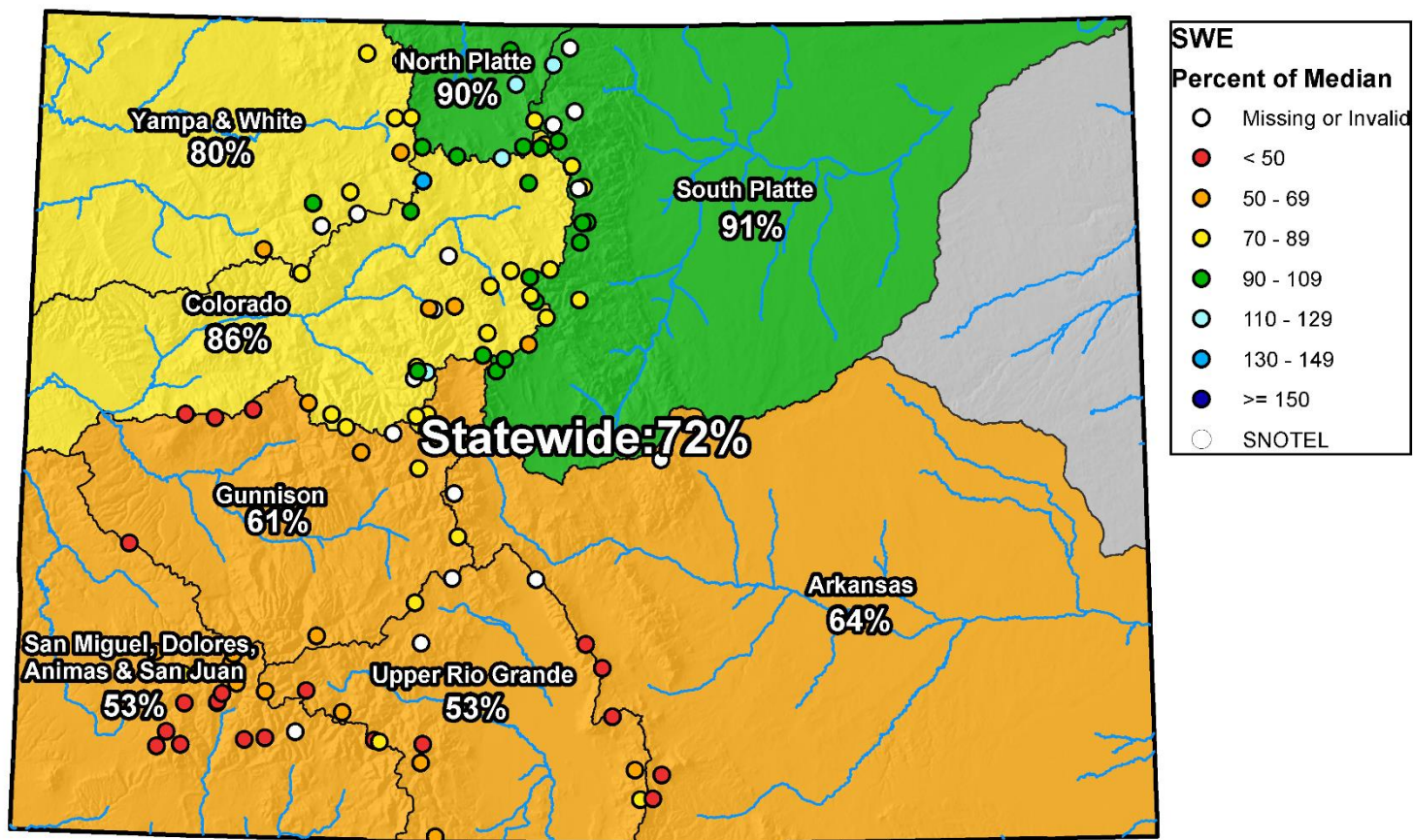
United States Department of Agriculture

Natural Resources Conservation Service



Colorado SNOTEL Snow Water Equivalent (SWE) Update Map with Site Data

Current as of Feb 21, 2018



0 25 50 100 150 200 Miles

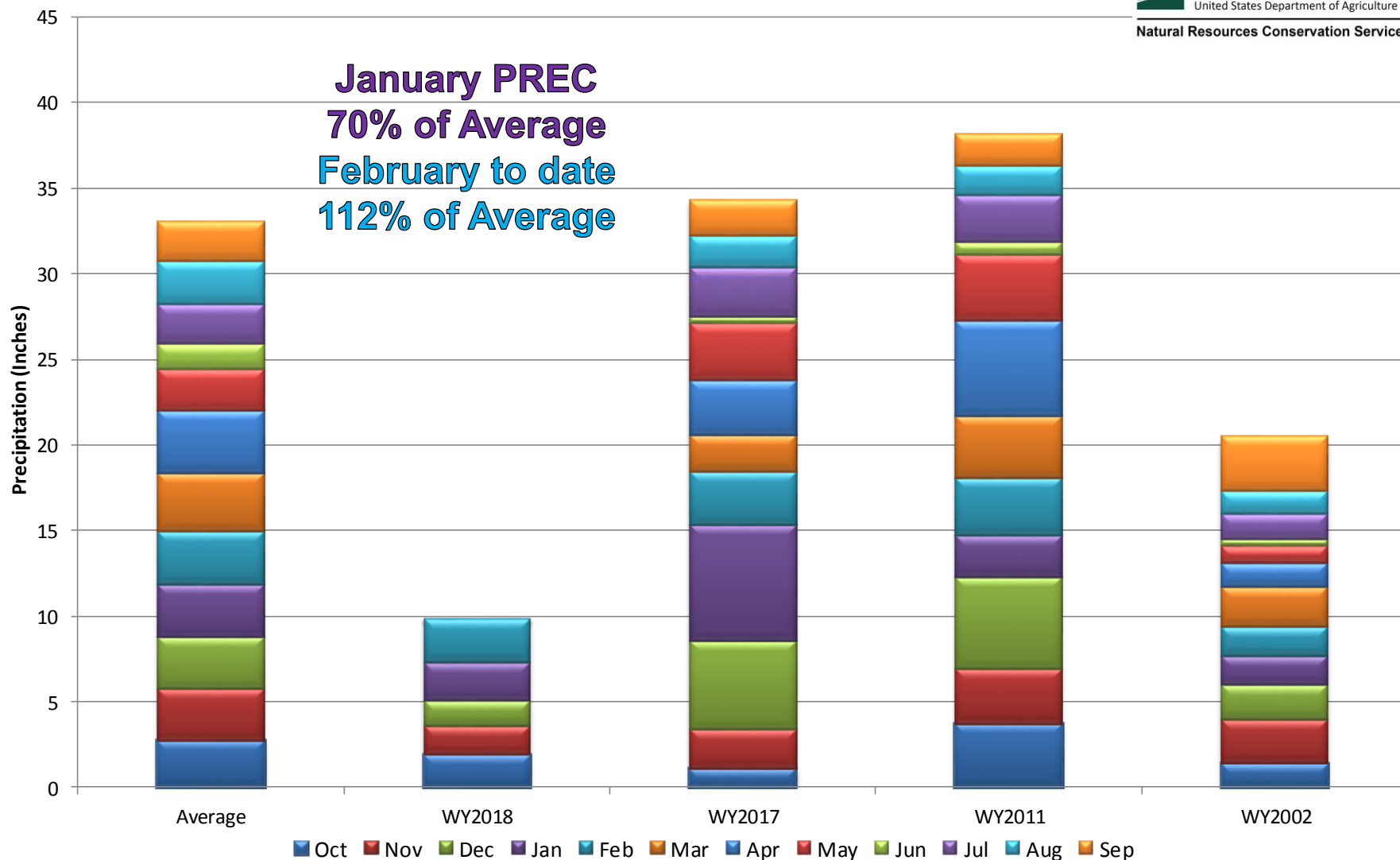
Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



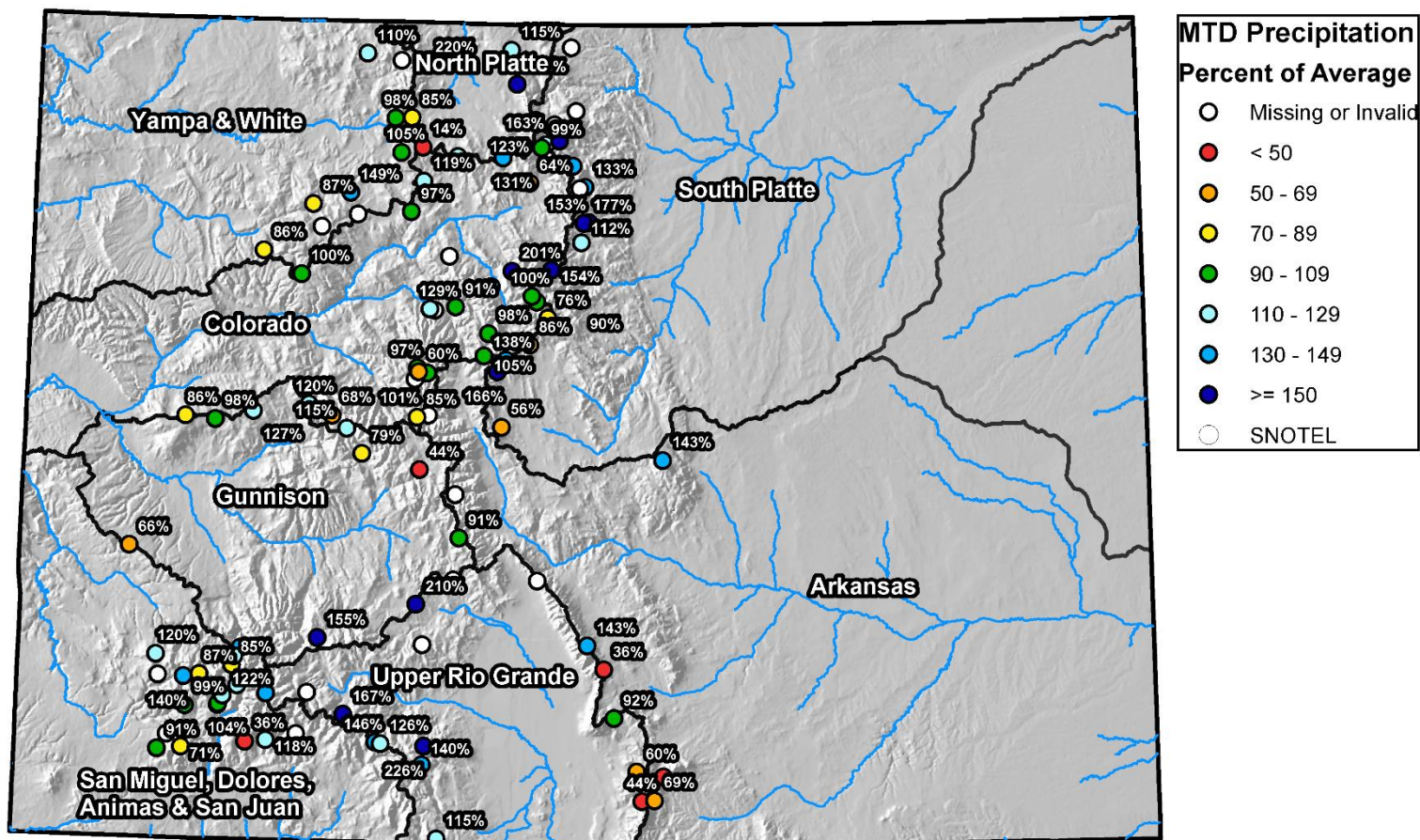
United States Department of Agriculture

Natural Resources Conservation Service



Colorado SNOTEL Month-to-Date Precipitation

Current as of Feb 21, 2018





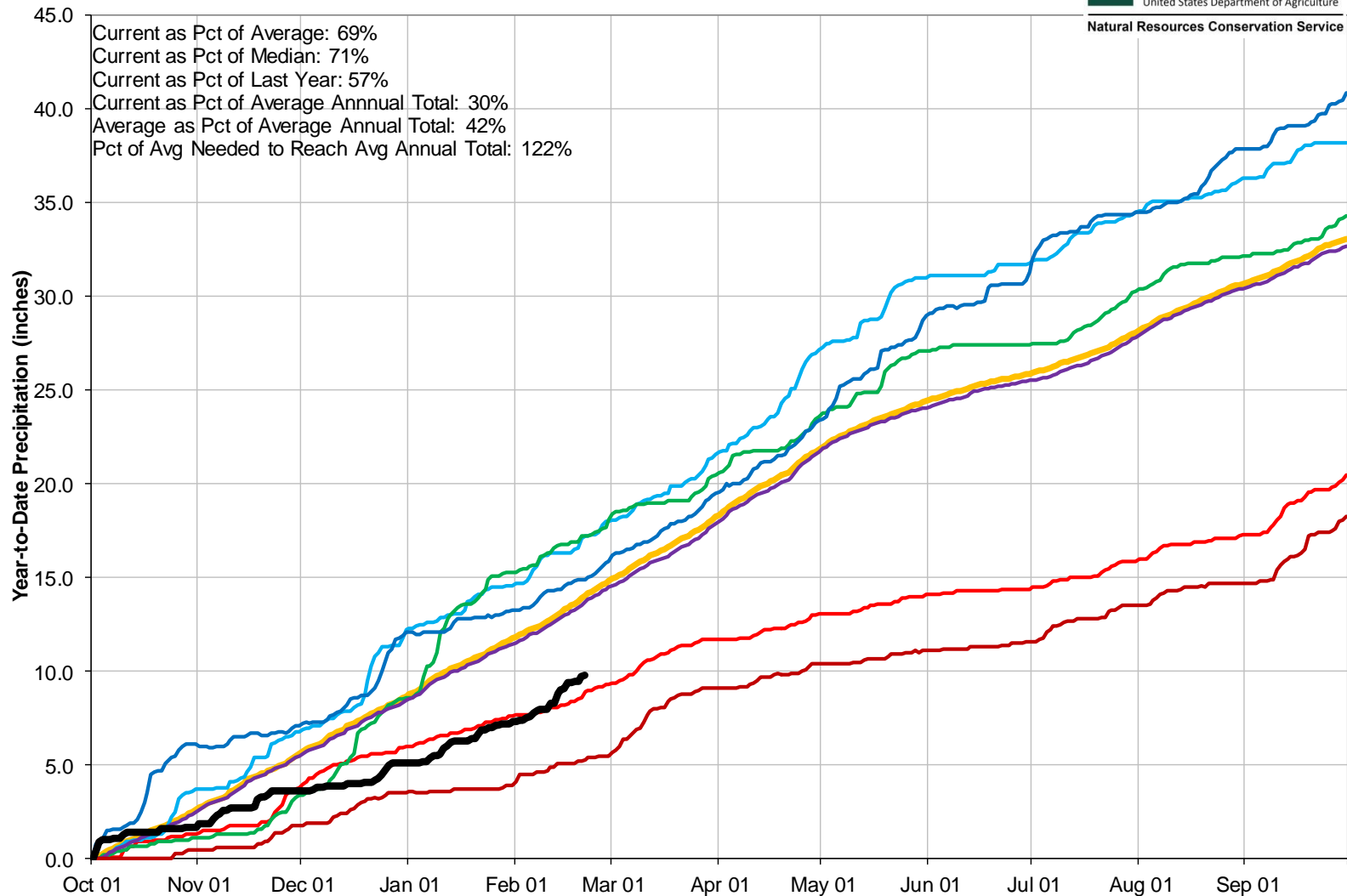
Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Feb 21, 2018



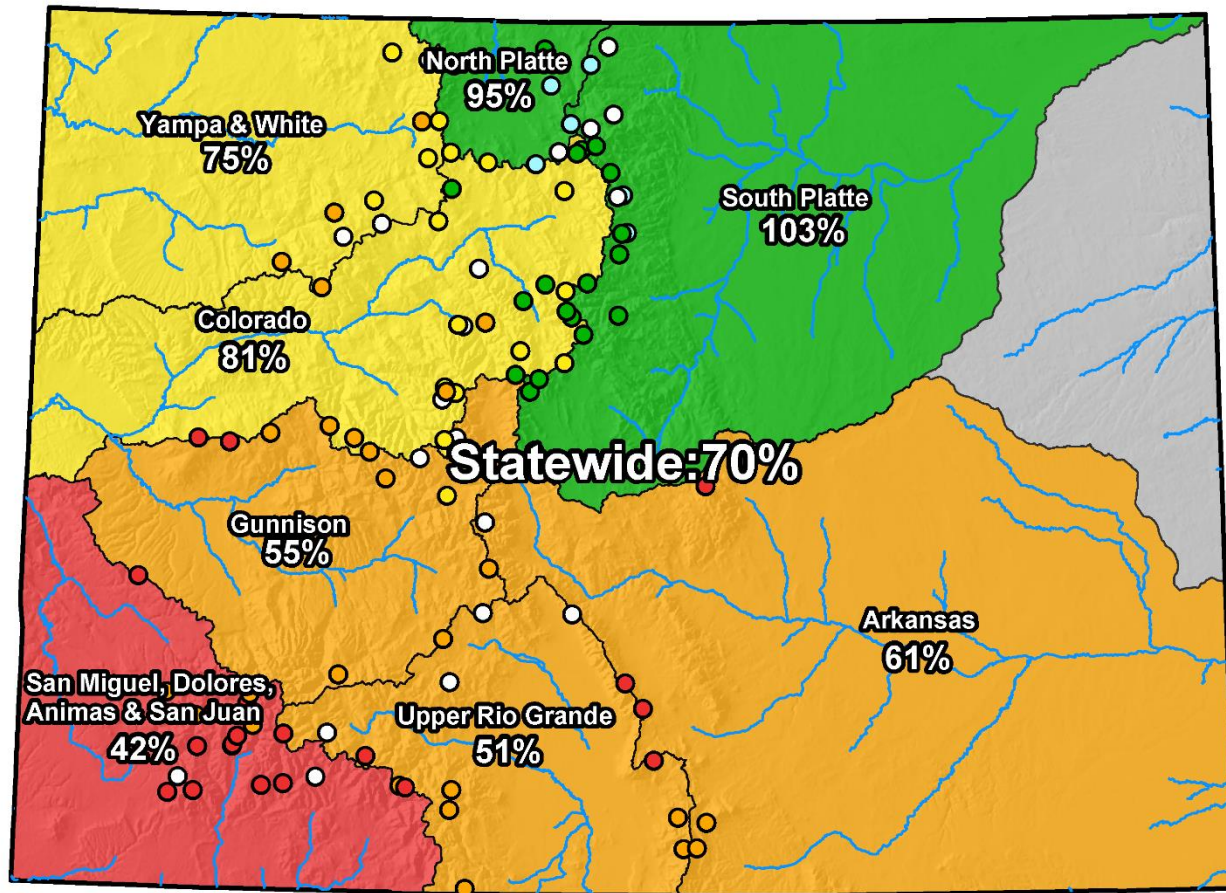
United States Department of Agriculture

Natural Resources Conservation Service



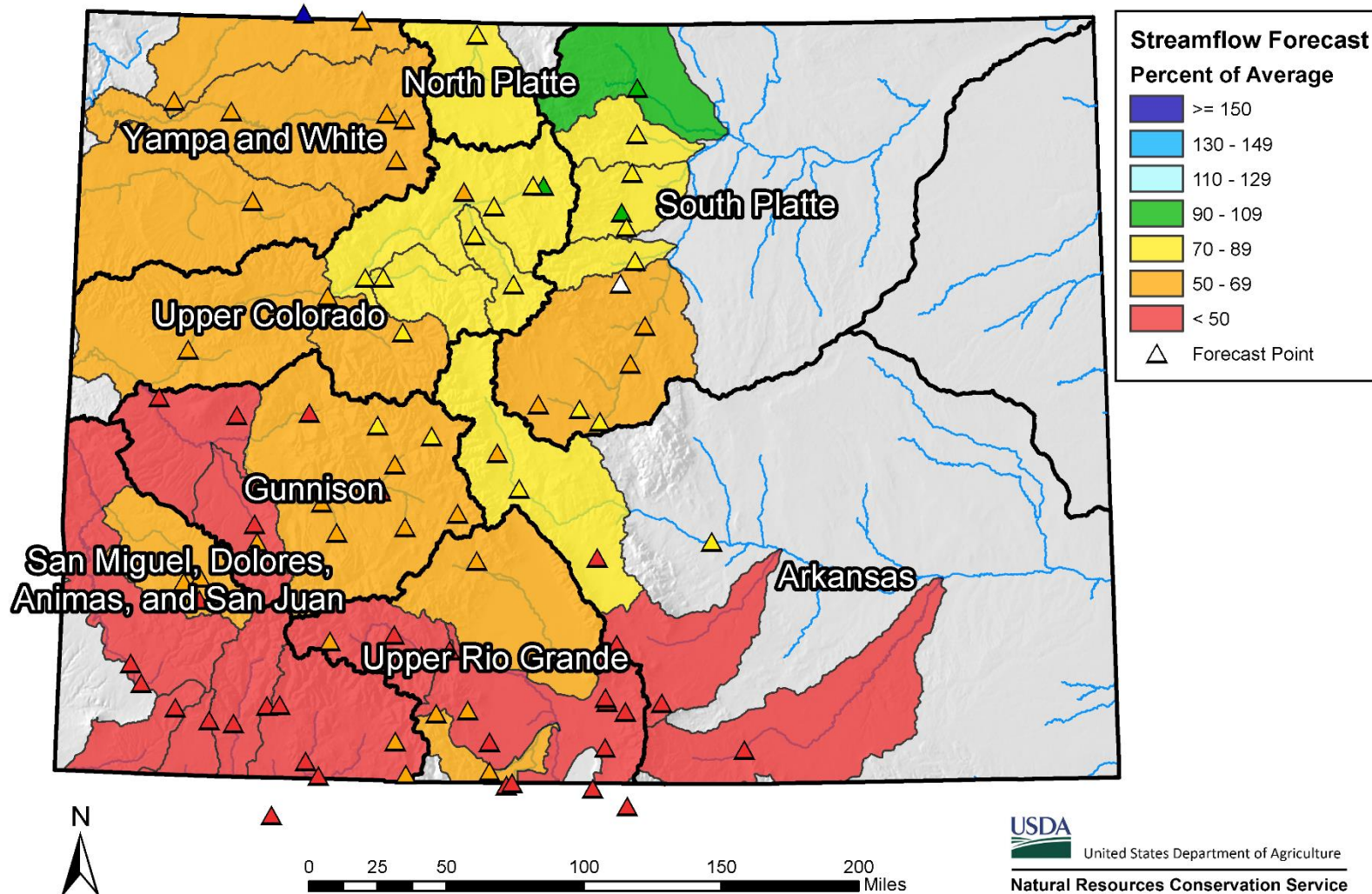
Colorado SNOTEL Water Year to Date Precipitation

Current as of Feb 21, 2018



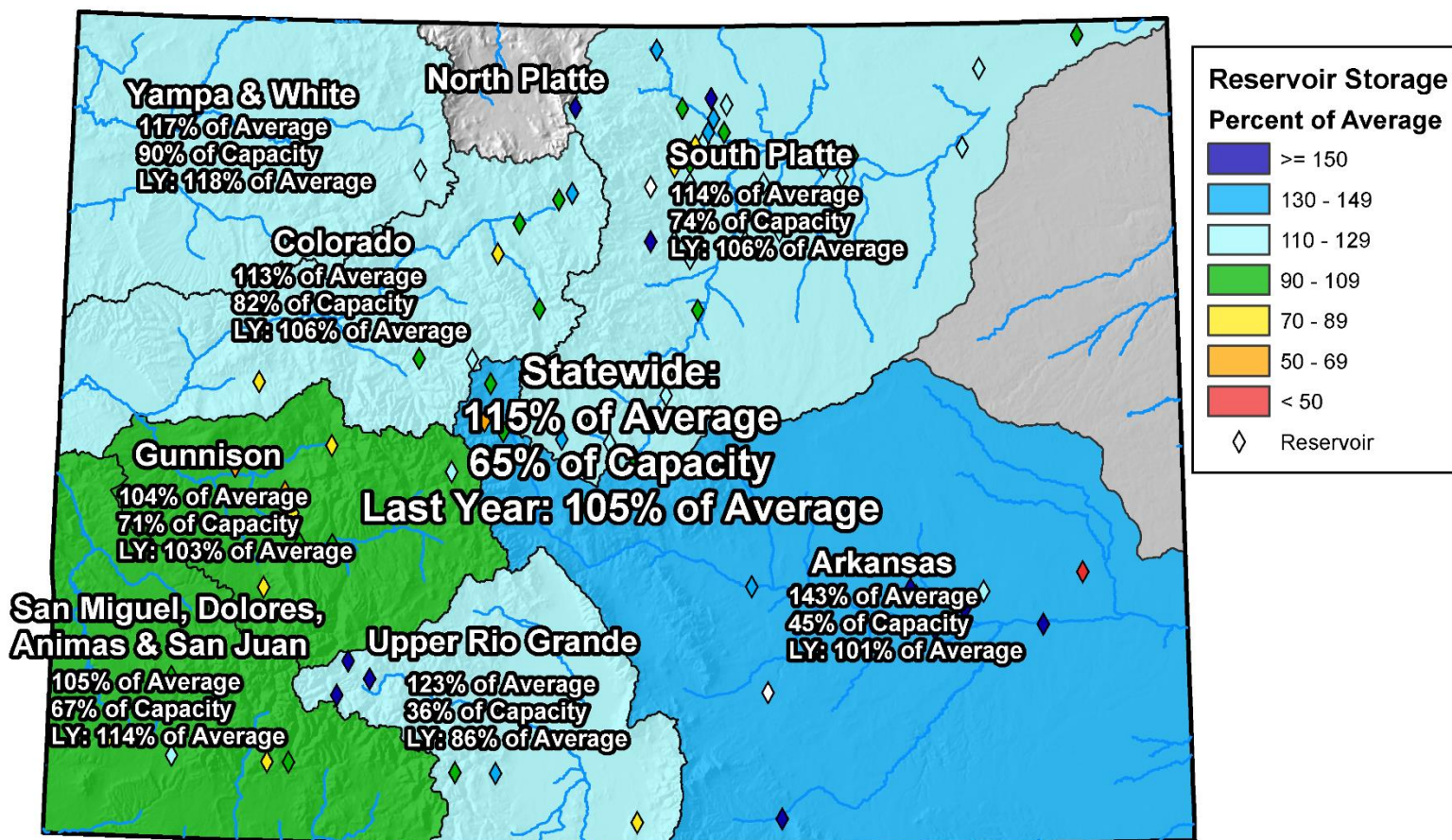
0 25 50 100 150 200 Miles

Colorado Streamflow Forecasts Summary February 1, 2018



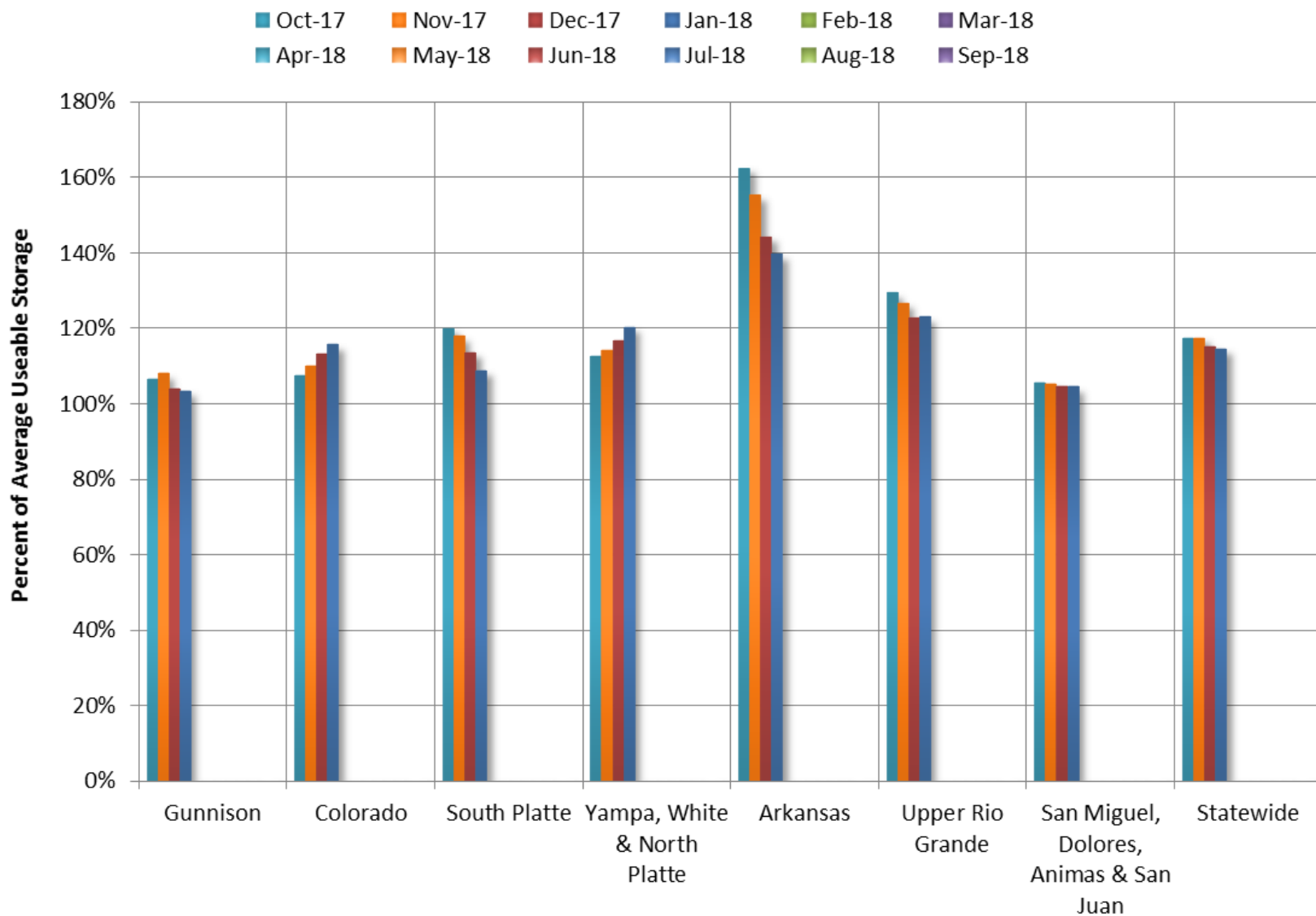
Colorado Monthly Reservoir Storage Summary

End of January 2018



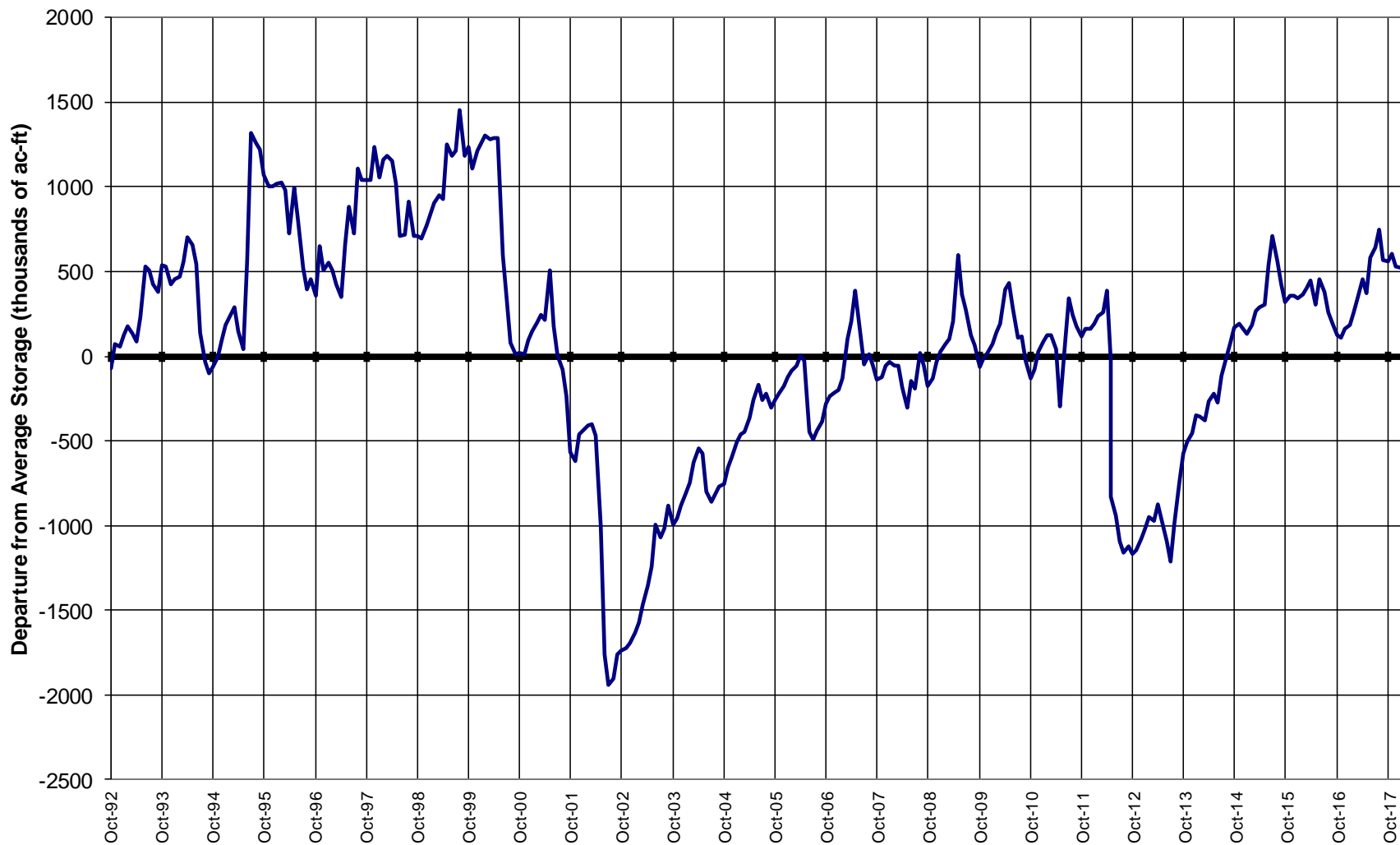
0 25 50 100 150 200 Miles

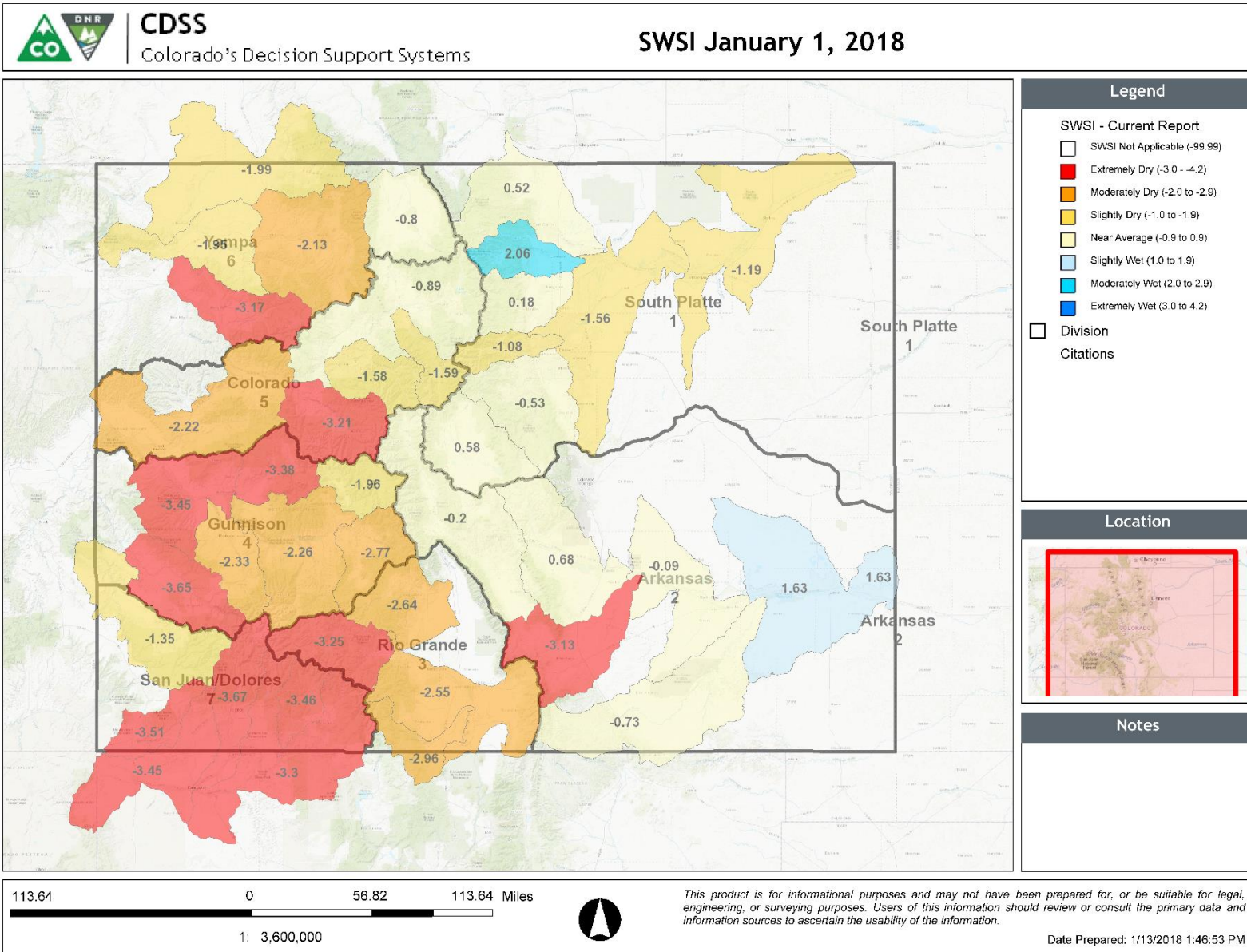
Colorado Reservoir Storage

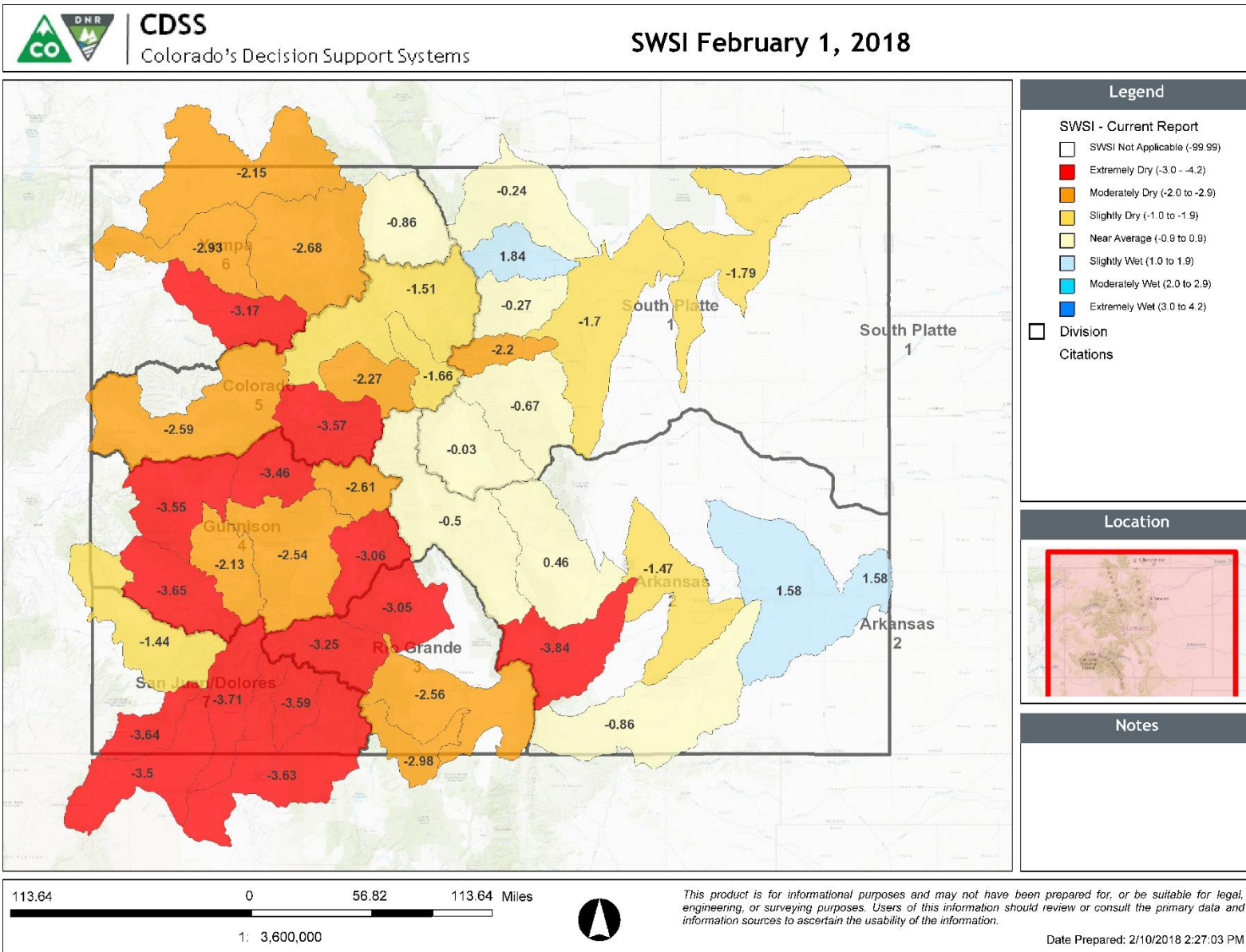




COLORADO STATEWIDE Reservoir Storage Departure from Average







Summary

- **Snowpack continues to be well below normal statewide but has improved throughout February**
 - Still a stark contrast between the northern and southern parts of Colorado but the southern mountains have made notable gains
- **Streamflow forecasts largely mirror the spatial pattern of precipitation and snow accumulation**
 - Similar to January 1st there were still no streamflow forecast points in the state for above average streamflow at the 50% chance of exceedance levels
 - Above average February precipitation will likely increase many of the forecasted volumes for March 1st
- **Reservoir storage is still above average in all major basins in the state**
- **With less than two months left in the normal snowpack accumulation season it is that much less likely to achieve a normal peak accumulation**
 - The accumulations necessary for that to happen has only occurred 2 out of the last 36 years



Water Availability Task Force Meeting

February 22nd, 2018

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

Hydrologist

Asst. Snow Survey Supervisor

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