



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

June 24th, 2021

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

Hydrologist

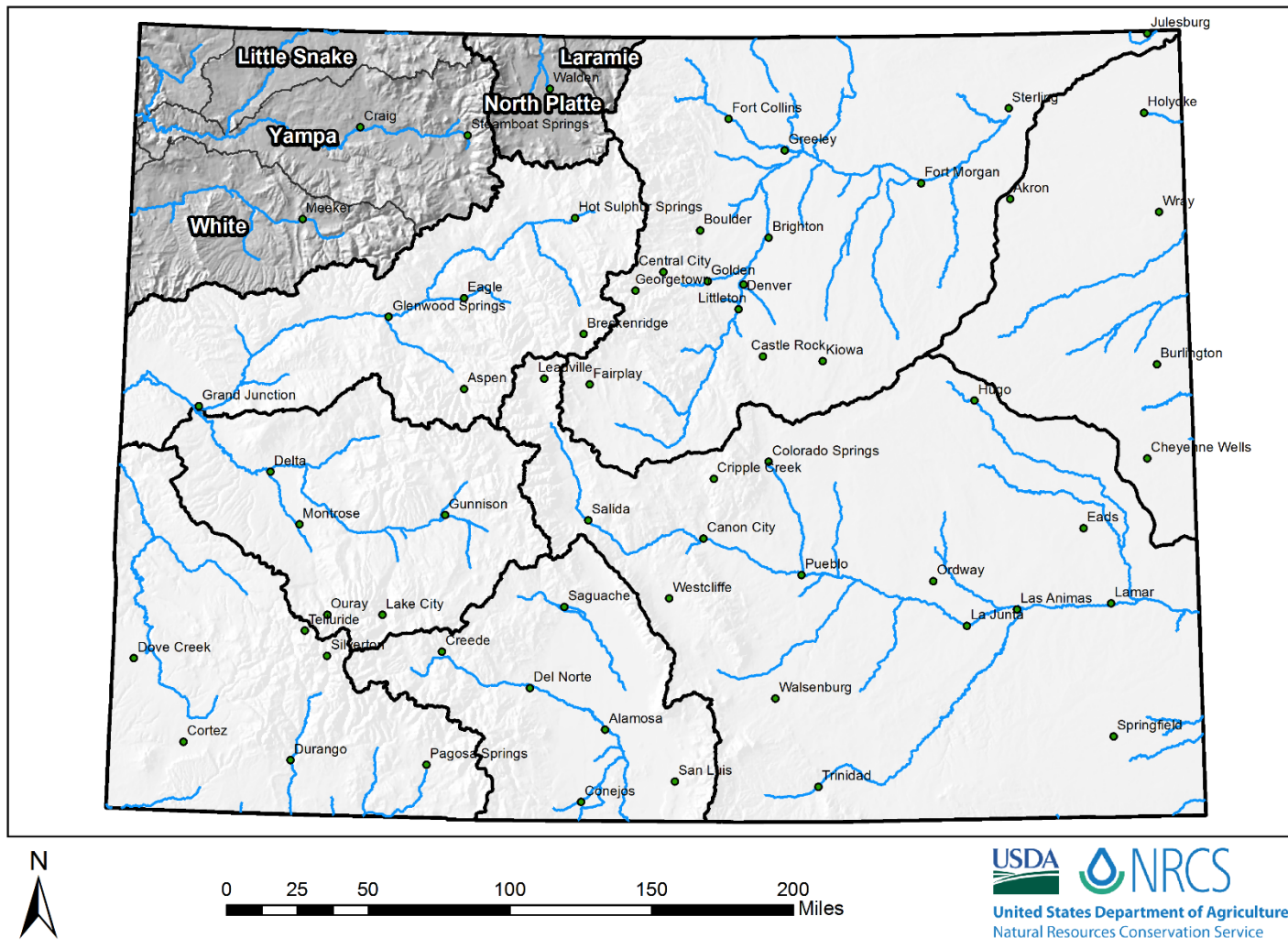
Asst. Snow Survey Supervisor

720-544-2852

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

Major Basin Summary

Yampa, White, and North Platte River Basins



Yampa and White River Basins High/Low Monthly Precipitation Summary

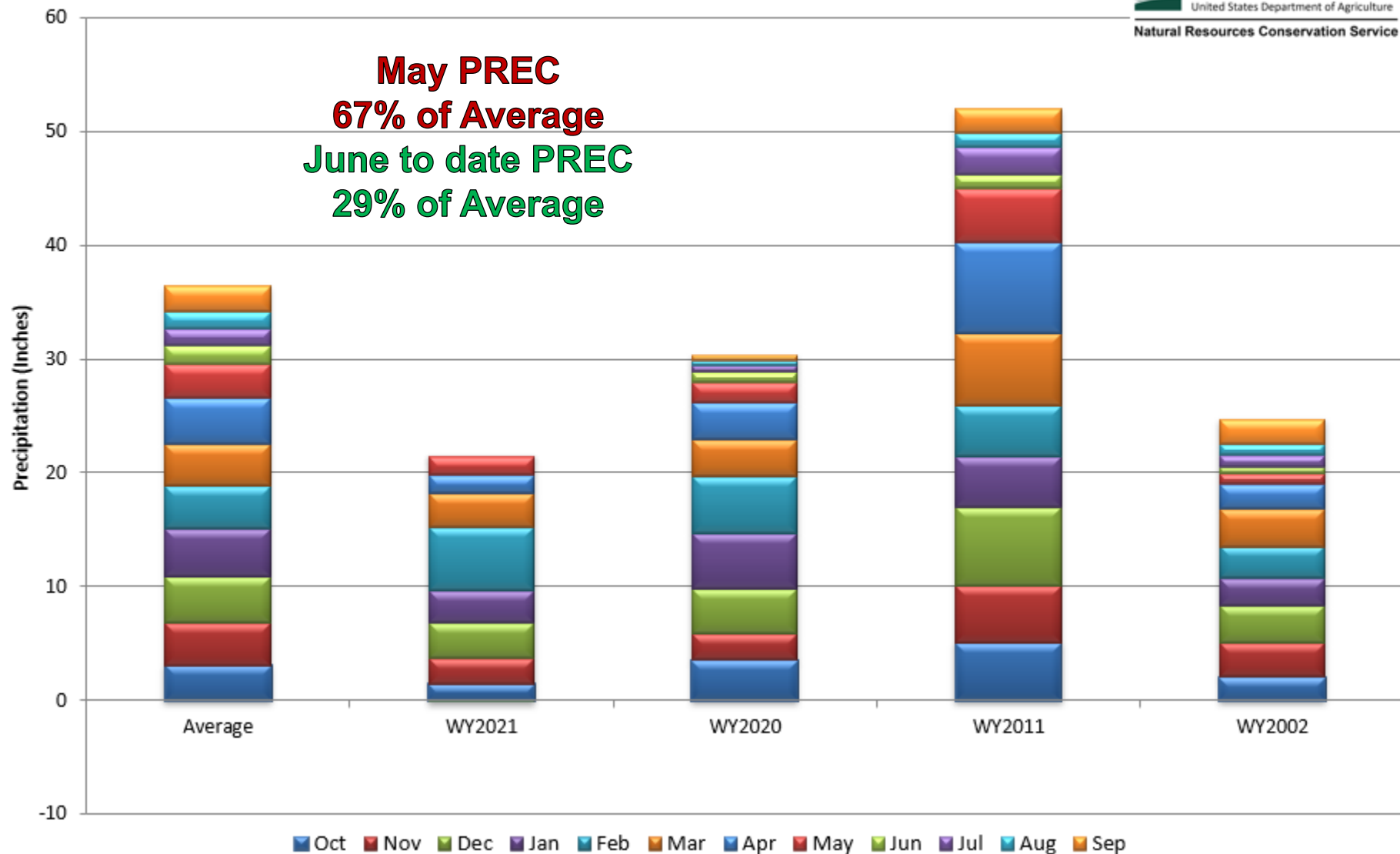
Based on Provisional SNOTEL data as of Jun 23, 2021



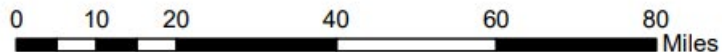
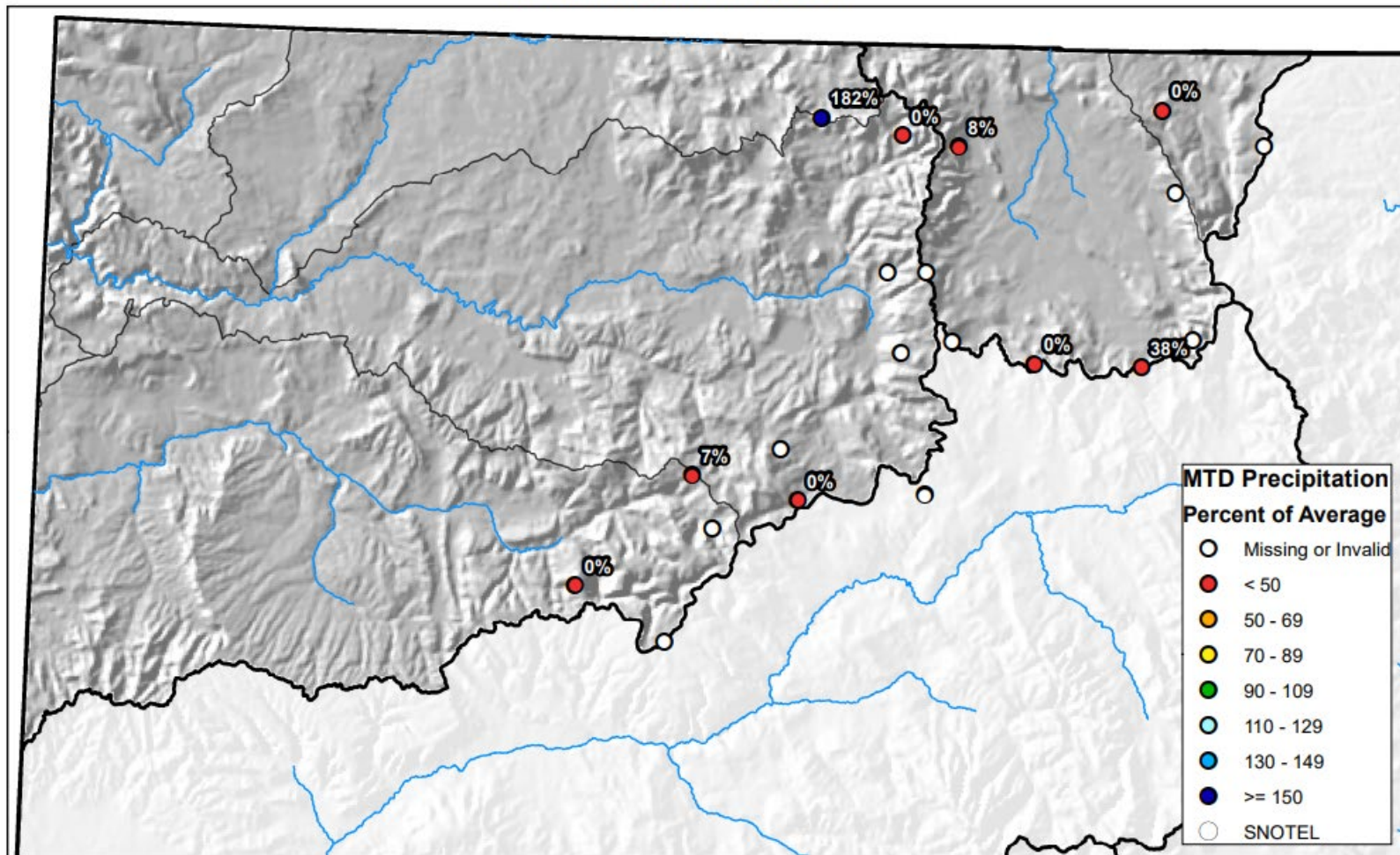
United States Department of Agriculture

Natural Resources Conservation Service

May PREC
67% of Average
June to date PREC
29% of Average

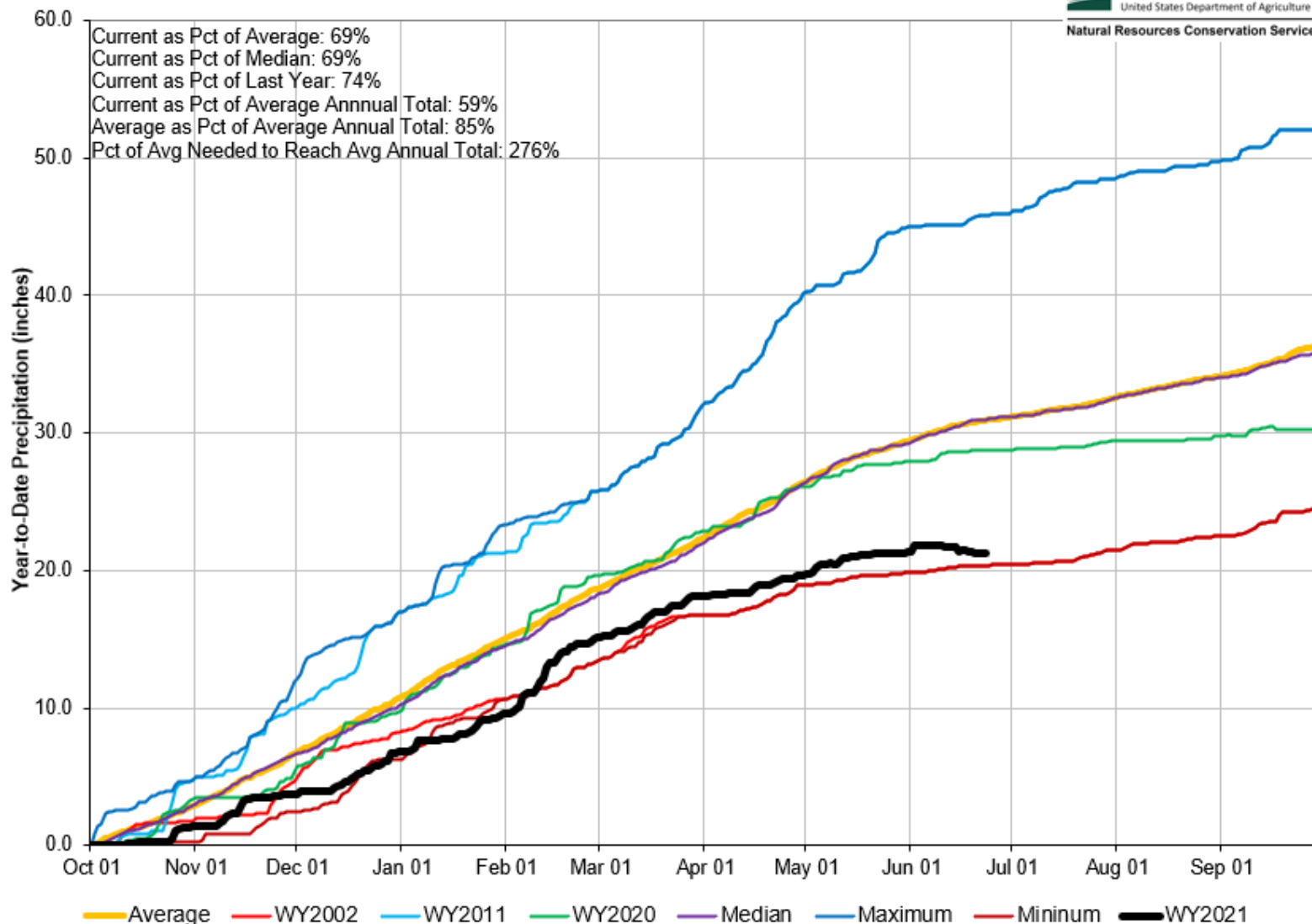


Yampa, White, and North Platte River Basins Month to Date Precipitation Summary Current as of Jun 23, 2021



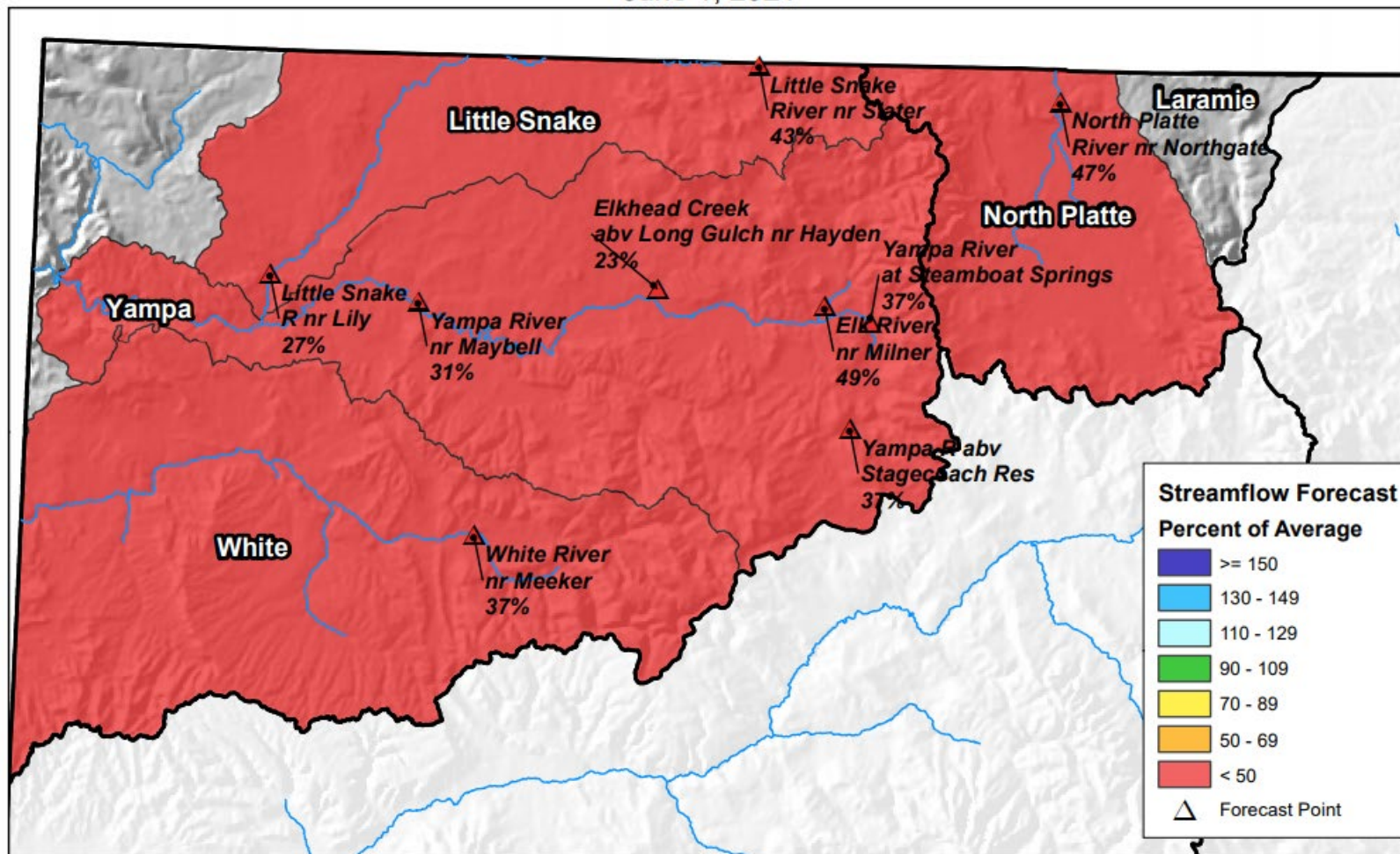
Yampa and White River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jun 23, 2021



Yampa, White, and North Platte River Basins Streamflow Forecast Summary

June 1, 2021

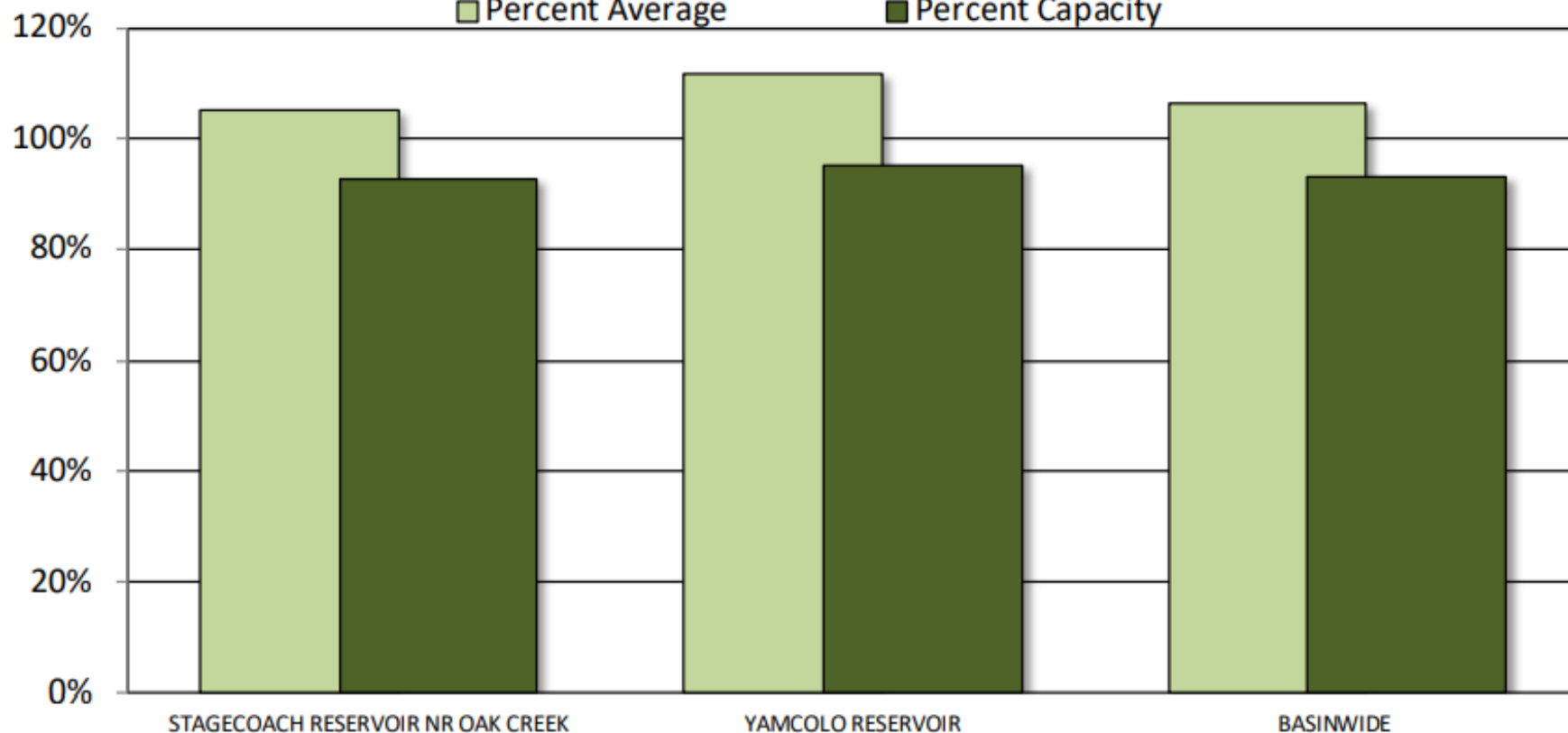


0 10 20 40 60 80 Miles

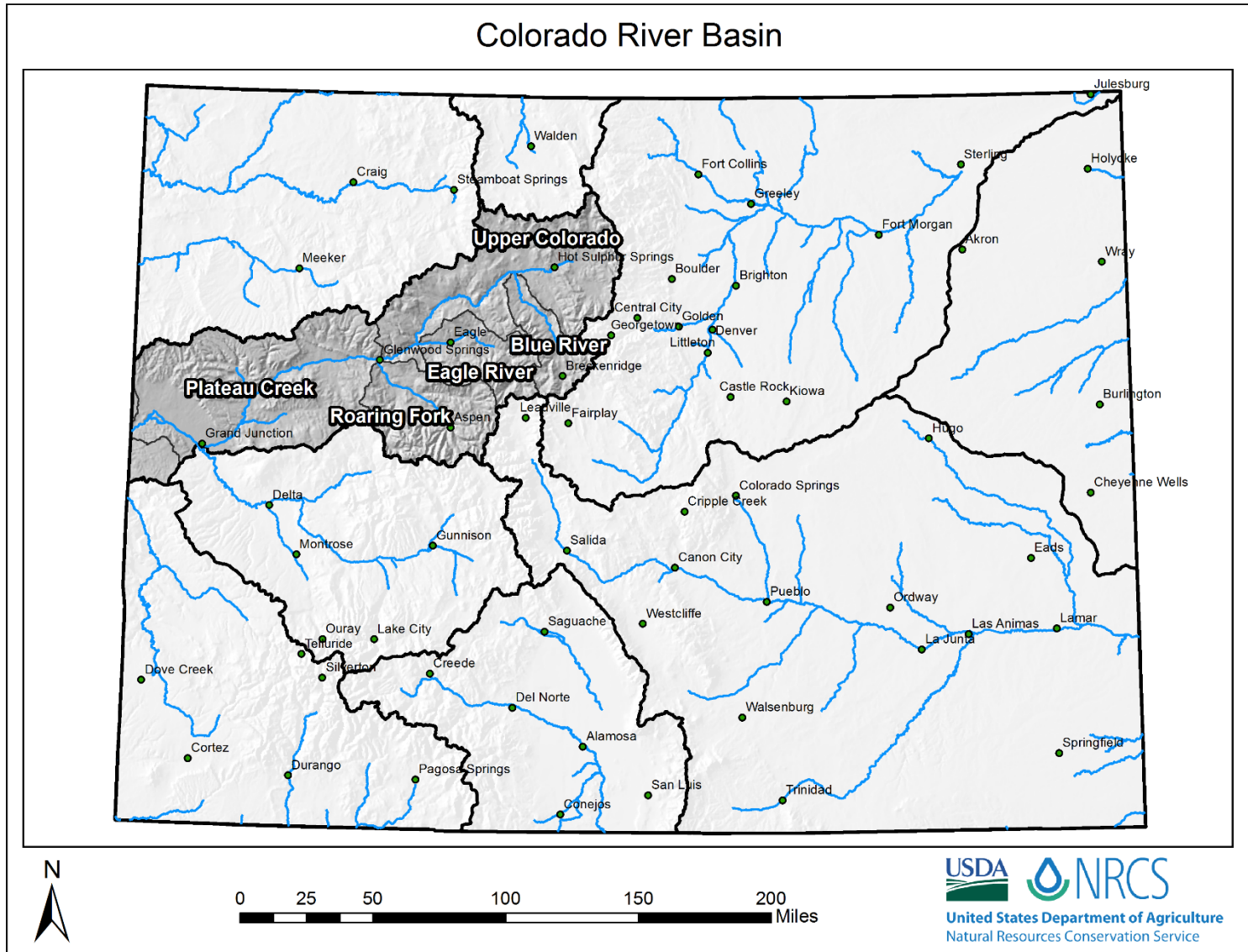
End of May Reservoir Storage

■ Percent Average

■ Percent Capacity

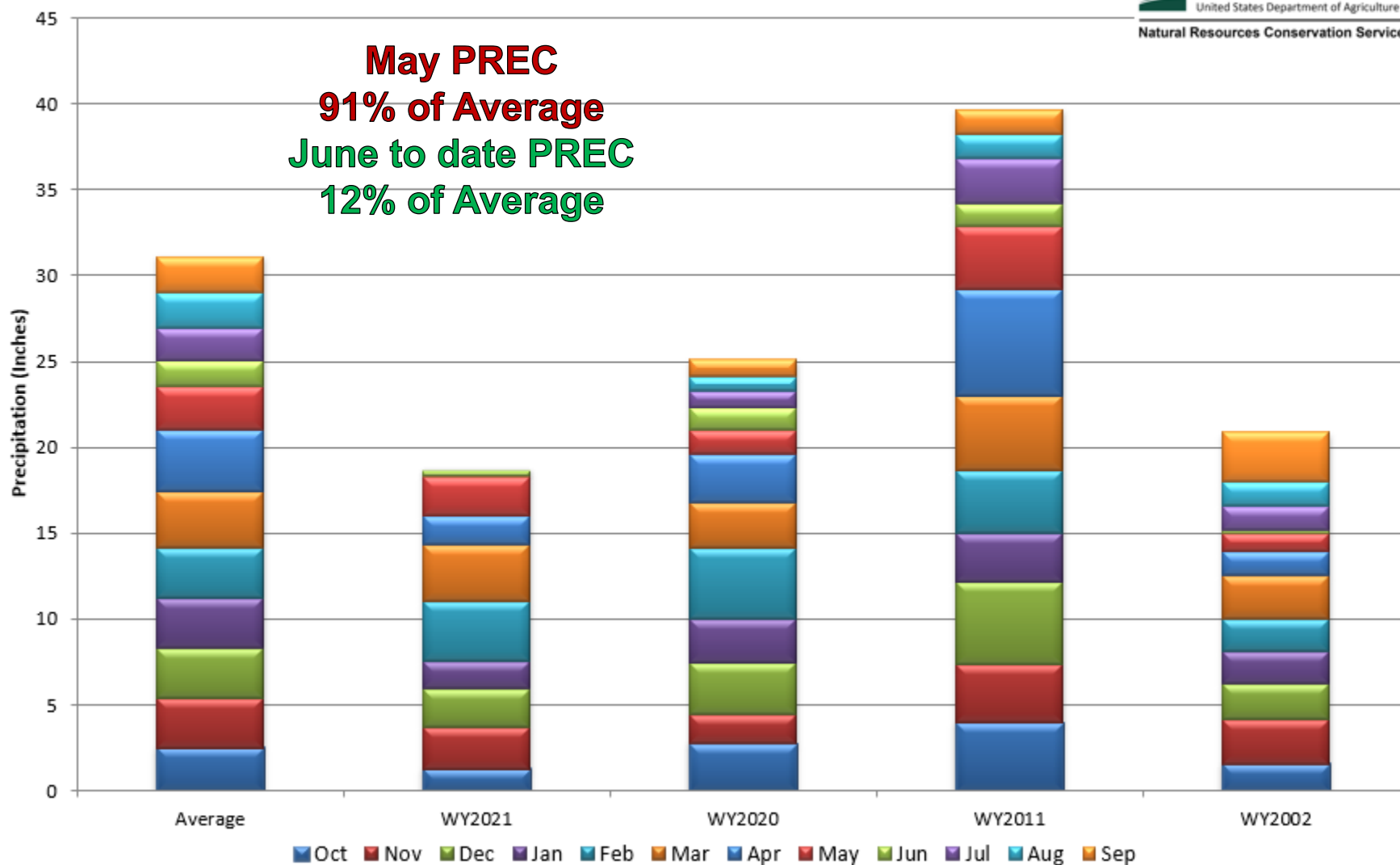


Major Basin Summary



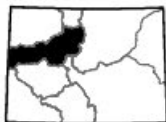
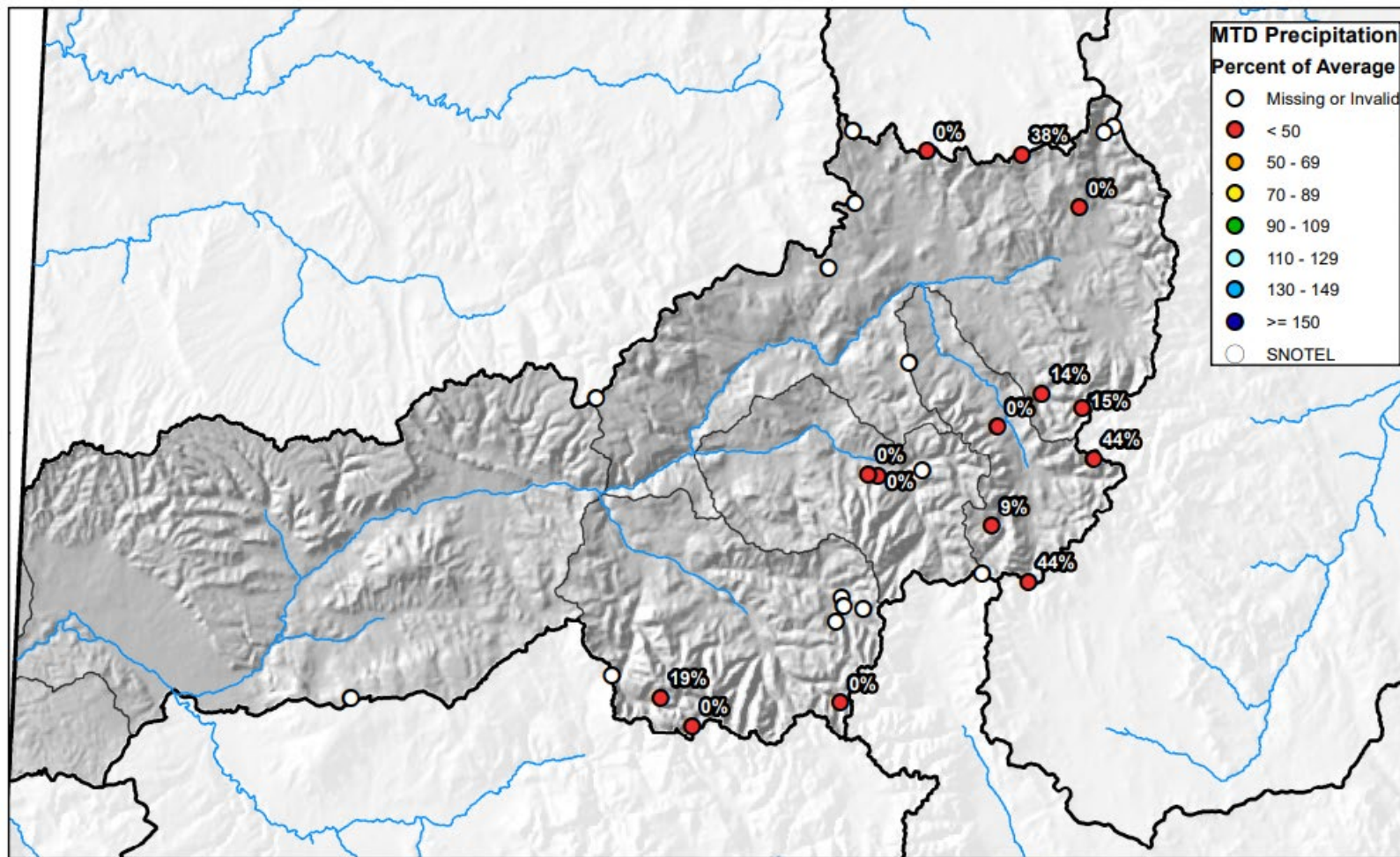
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 23, 2021



Upper Colorado River Basin Month to Date Precipitation Summary

Current as of Jun 23, 2021



0 10 20 40 60 80 Miles



United States Department of Agriculture

Natural Resources Conservation Service

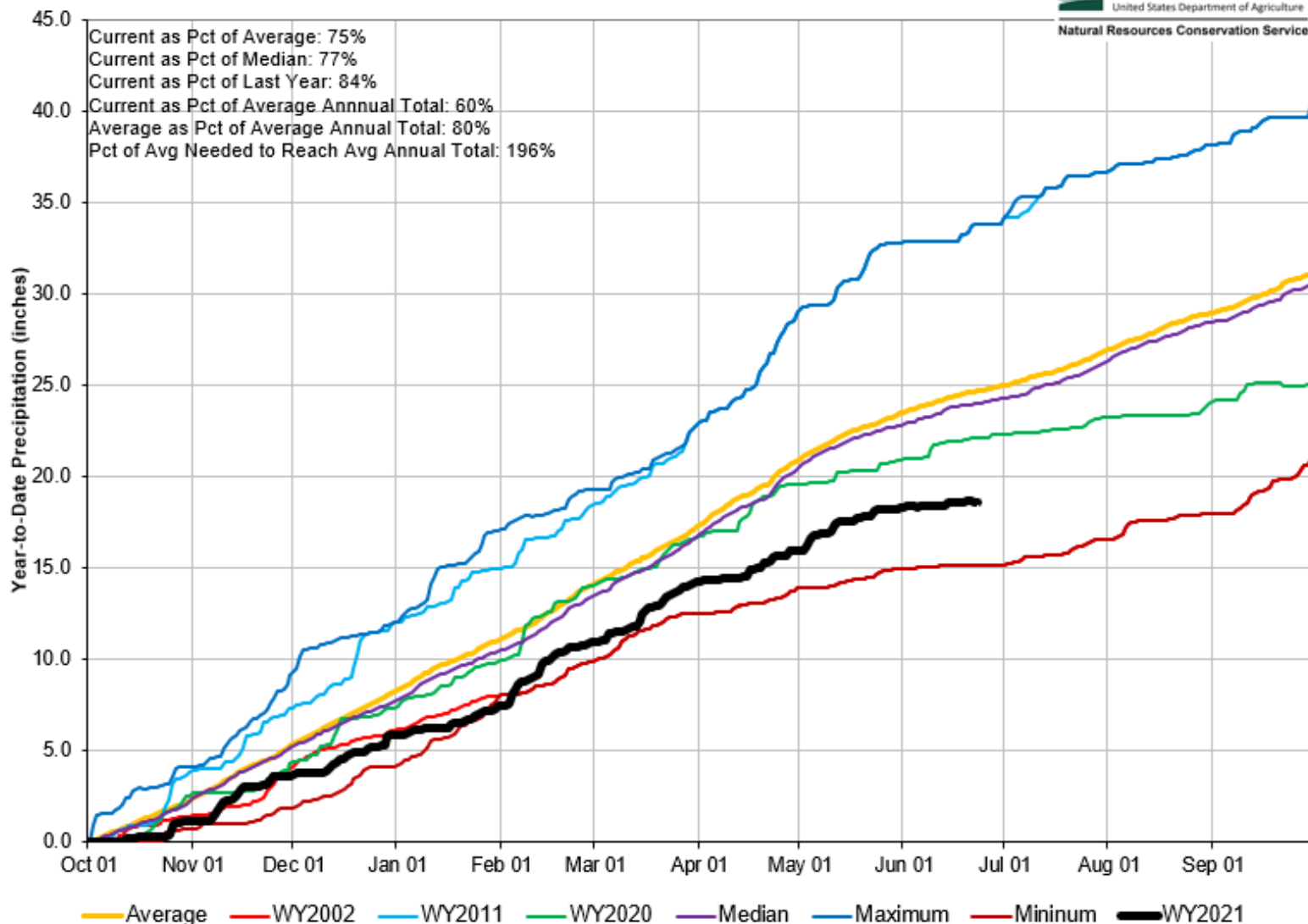
Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jun 23, 2021



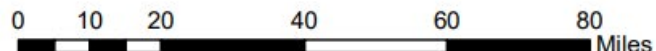
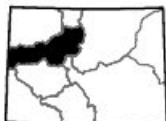
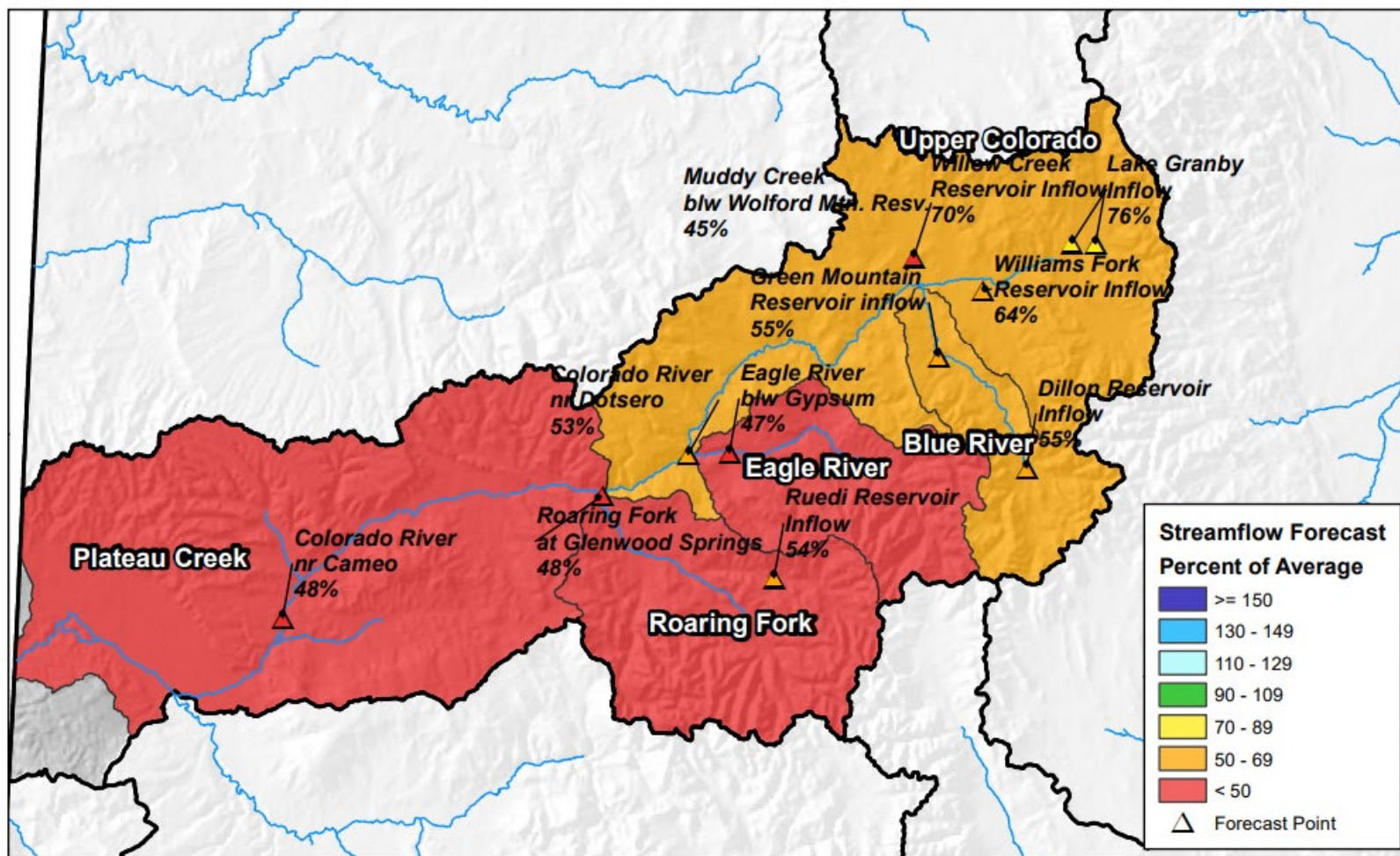
United States Department of Agriculture

Natural Resources Conservation Service



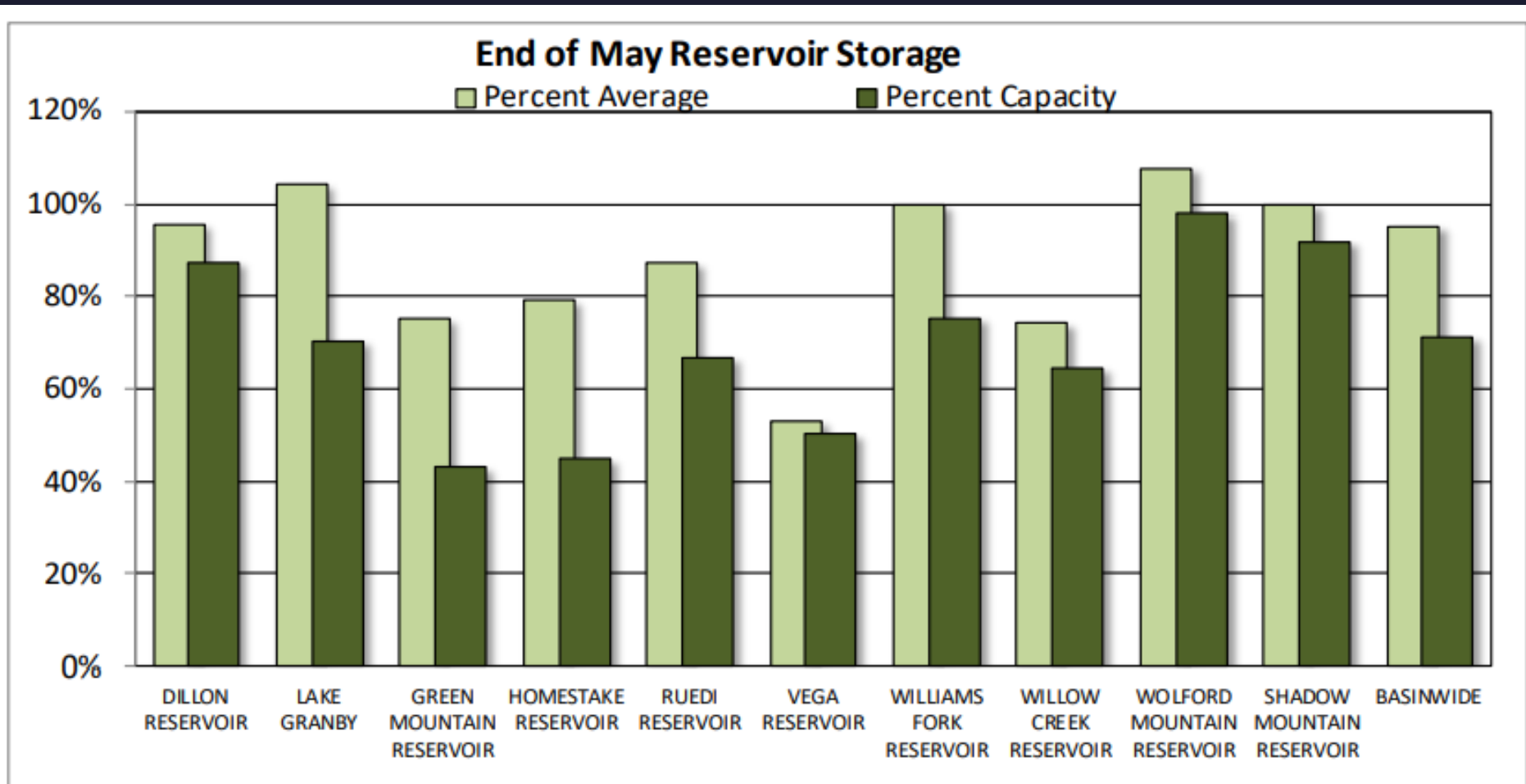
Upper Colorado River Basin Streamflow Forecast Summary

June 1, 2021

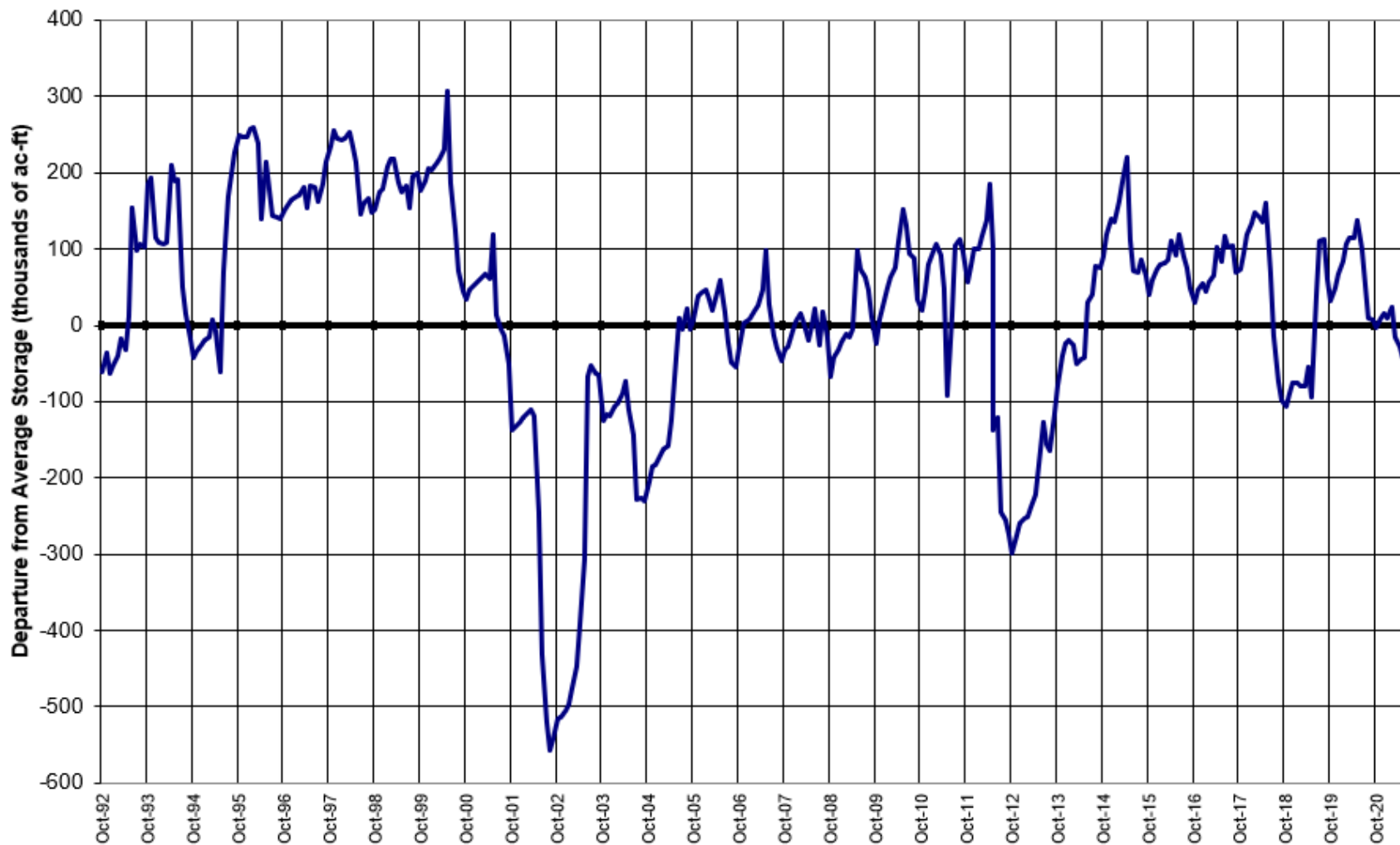


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Natural Resources Conservation Service

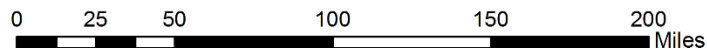
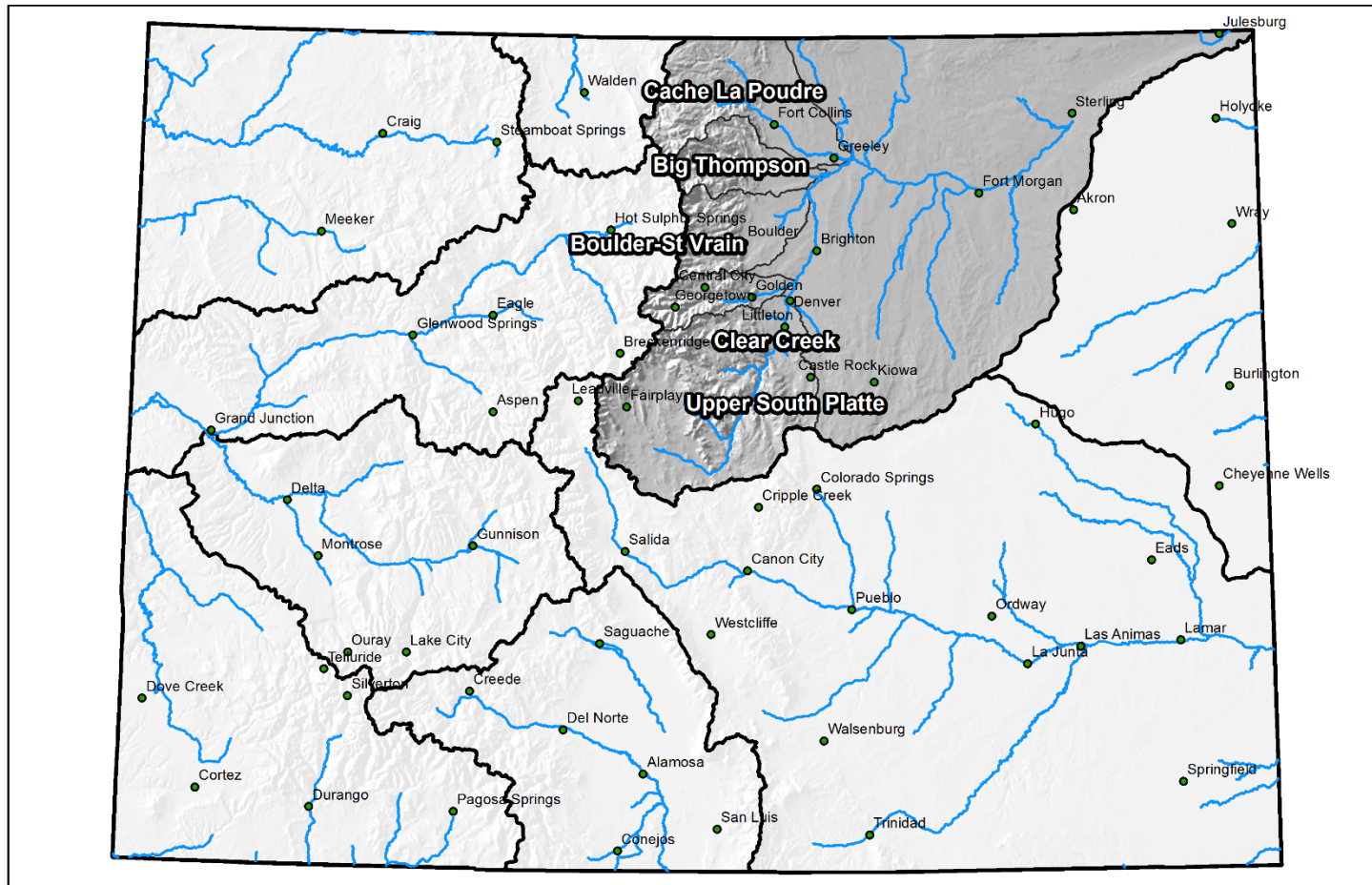


COLORADO RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

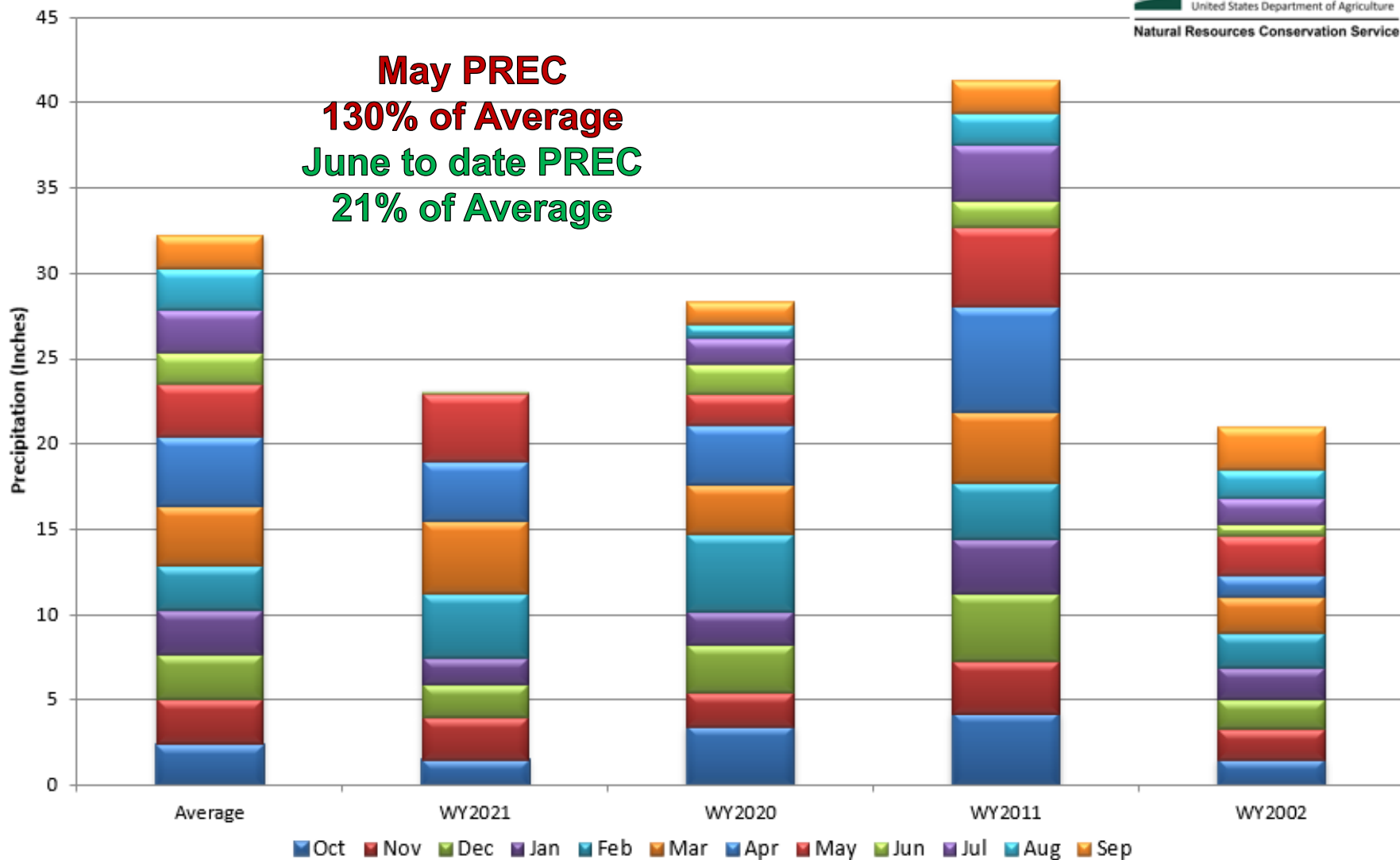
South Platte River Basin



South Platte River Basin High/Low Monthly Precipitation Summary

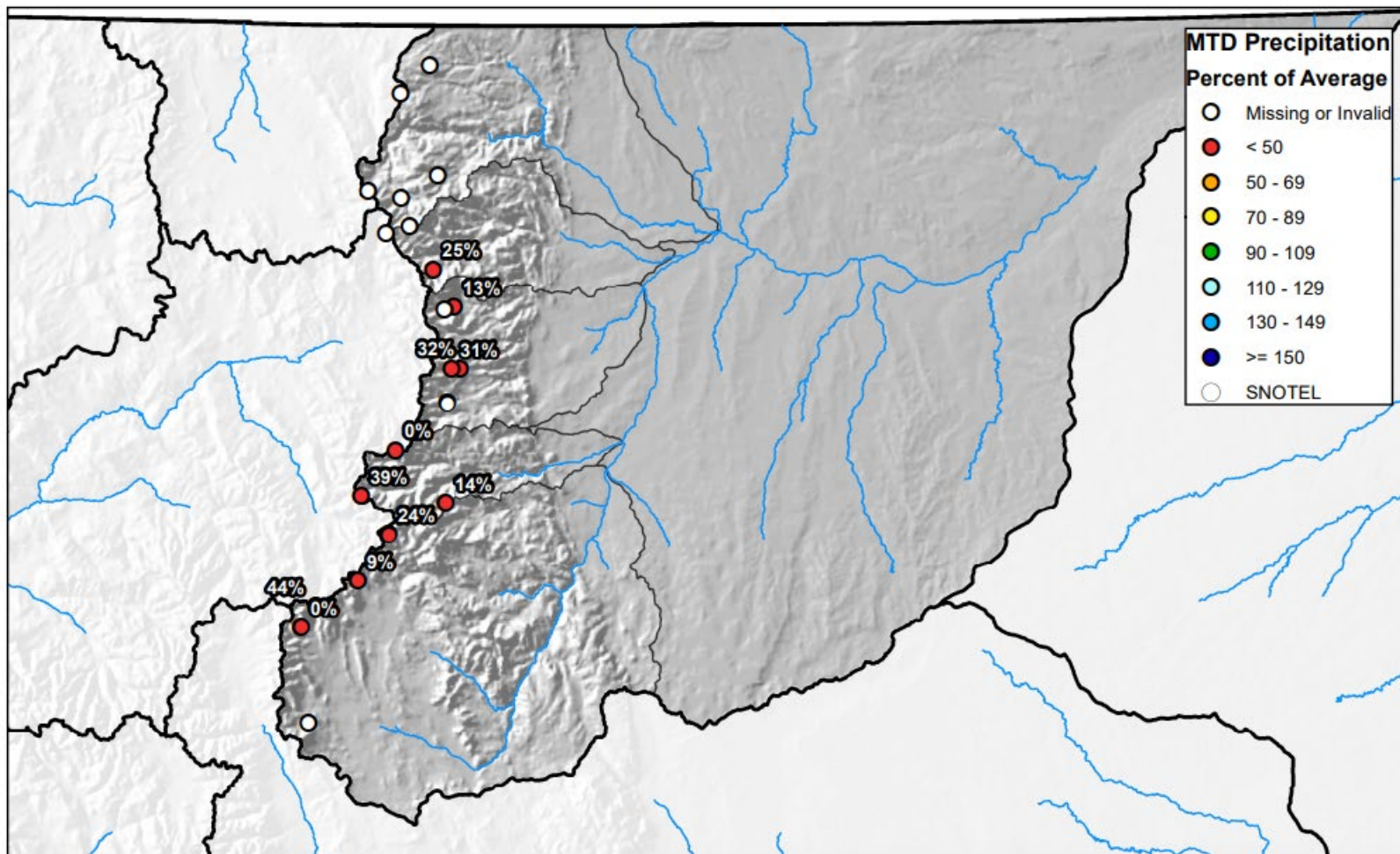
Based on Provisional SNOTEL data as of Jun 23, 2021

May PREC
130% of Average
June to date PREC
21% of Average



South Platte River Basin Month to Date Precipitation Summary

Current as of Jun 23, 2021



0 10 20 40 60 80 Miles

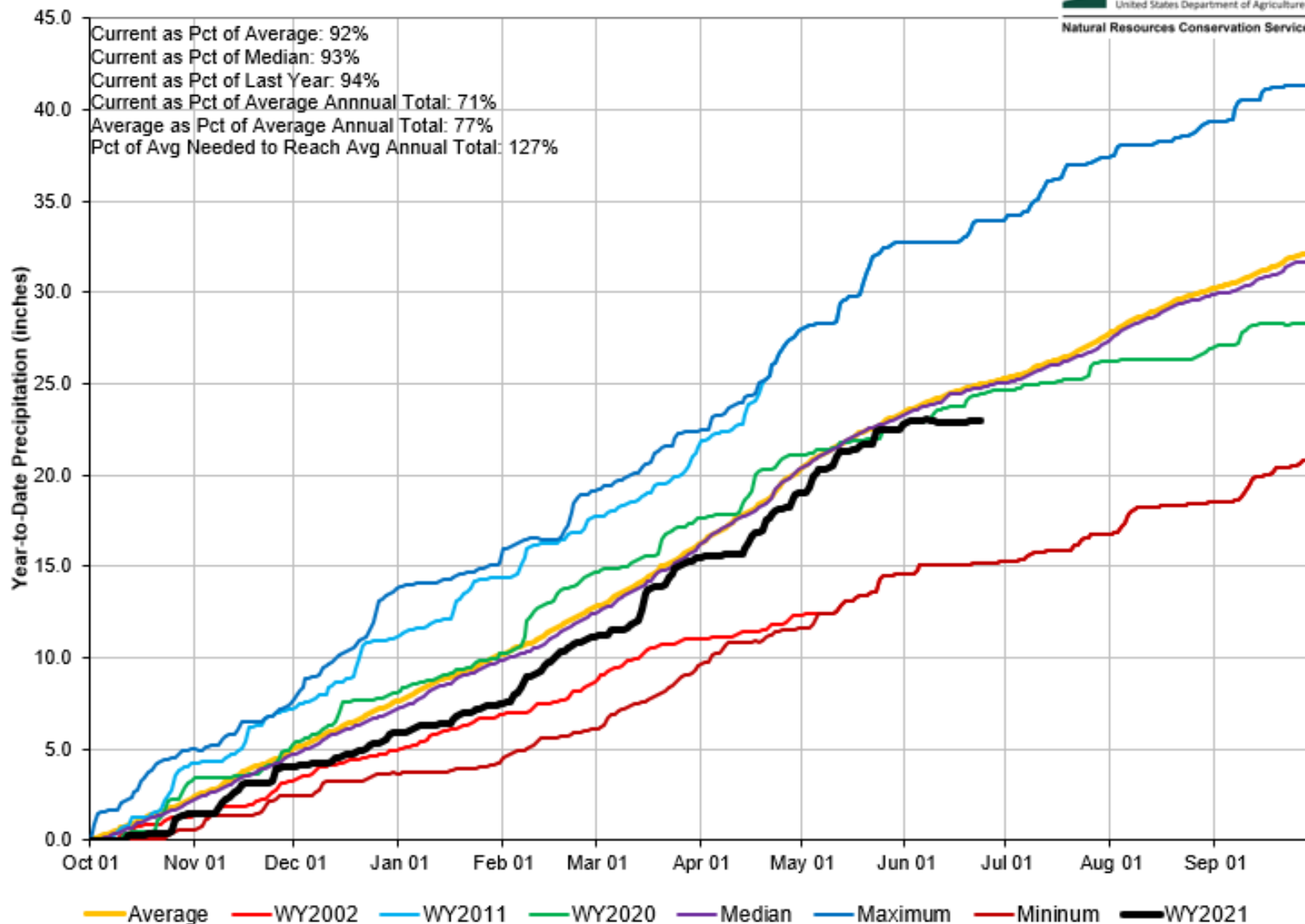
South Platte River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jun 23, 2021



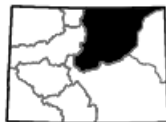
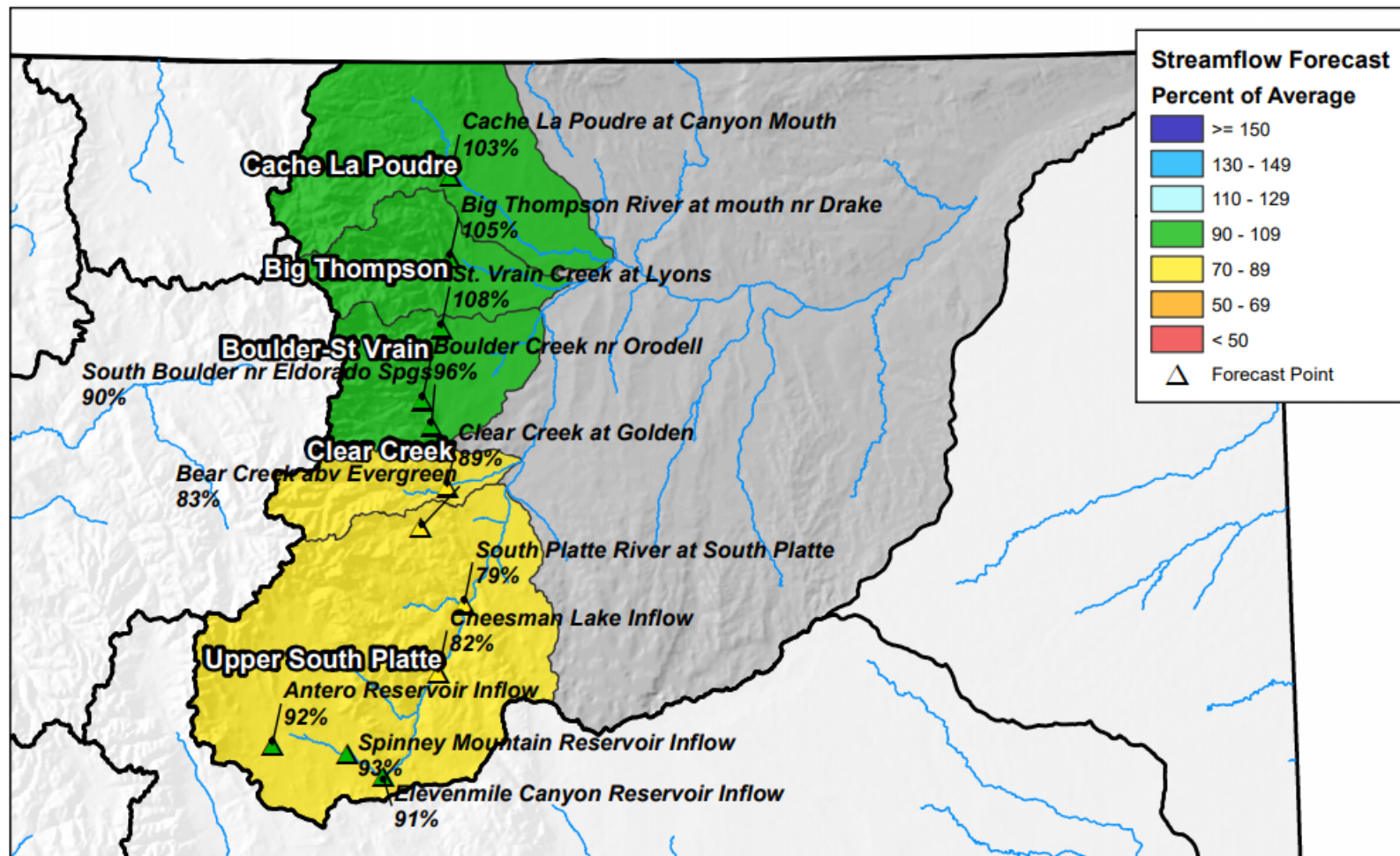
United States Department of Agriculture

Natural Resources Conservation Service

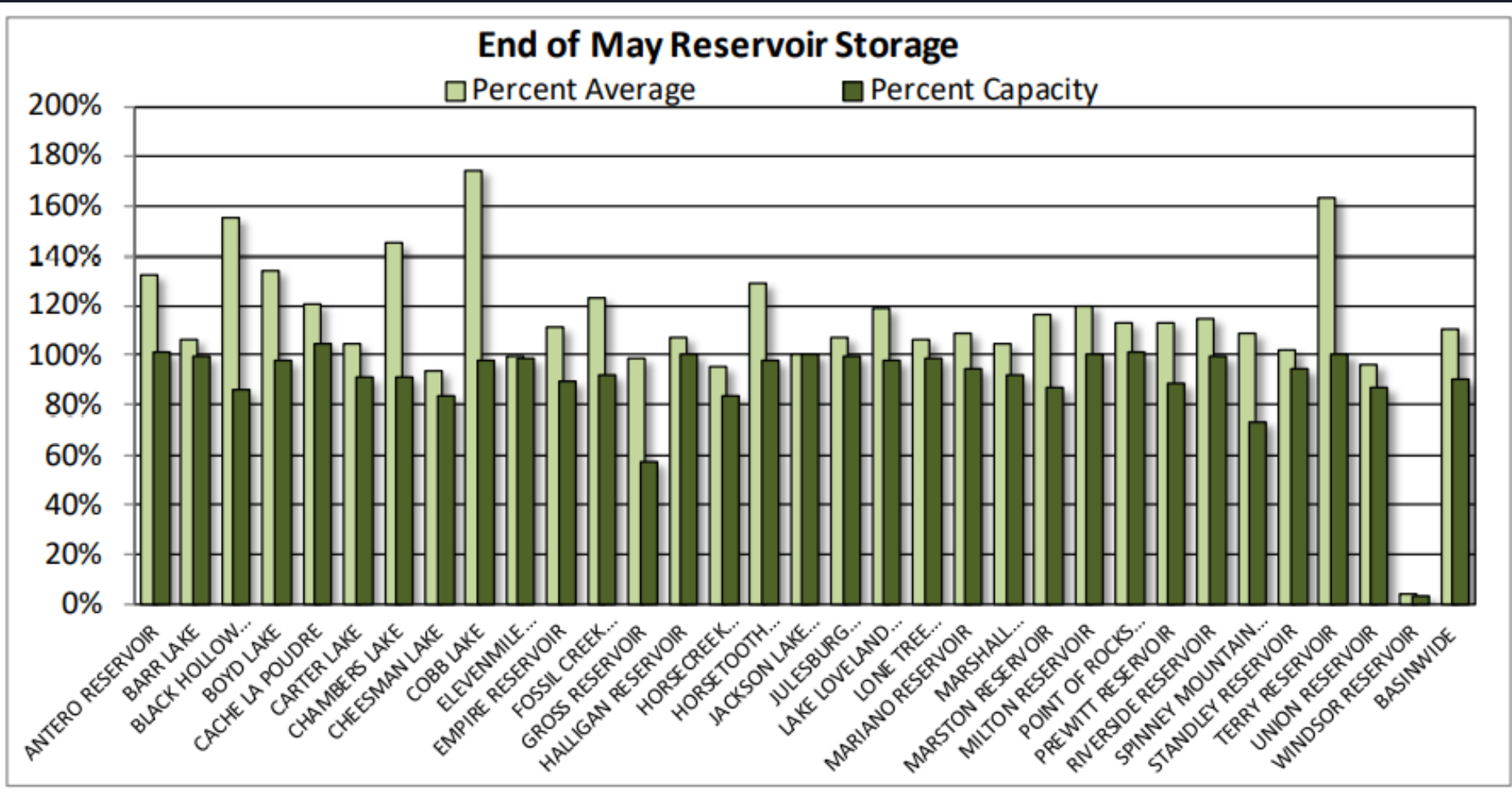


South Platte River Basin Streamflow Forecast Summary

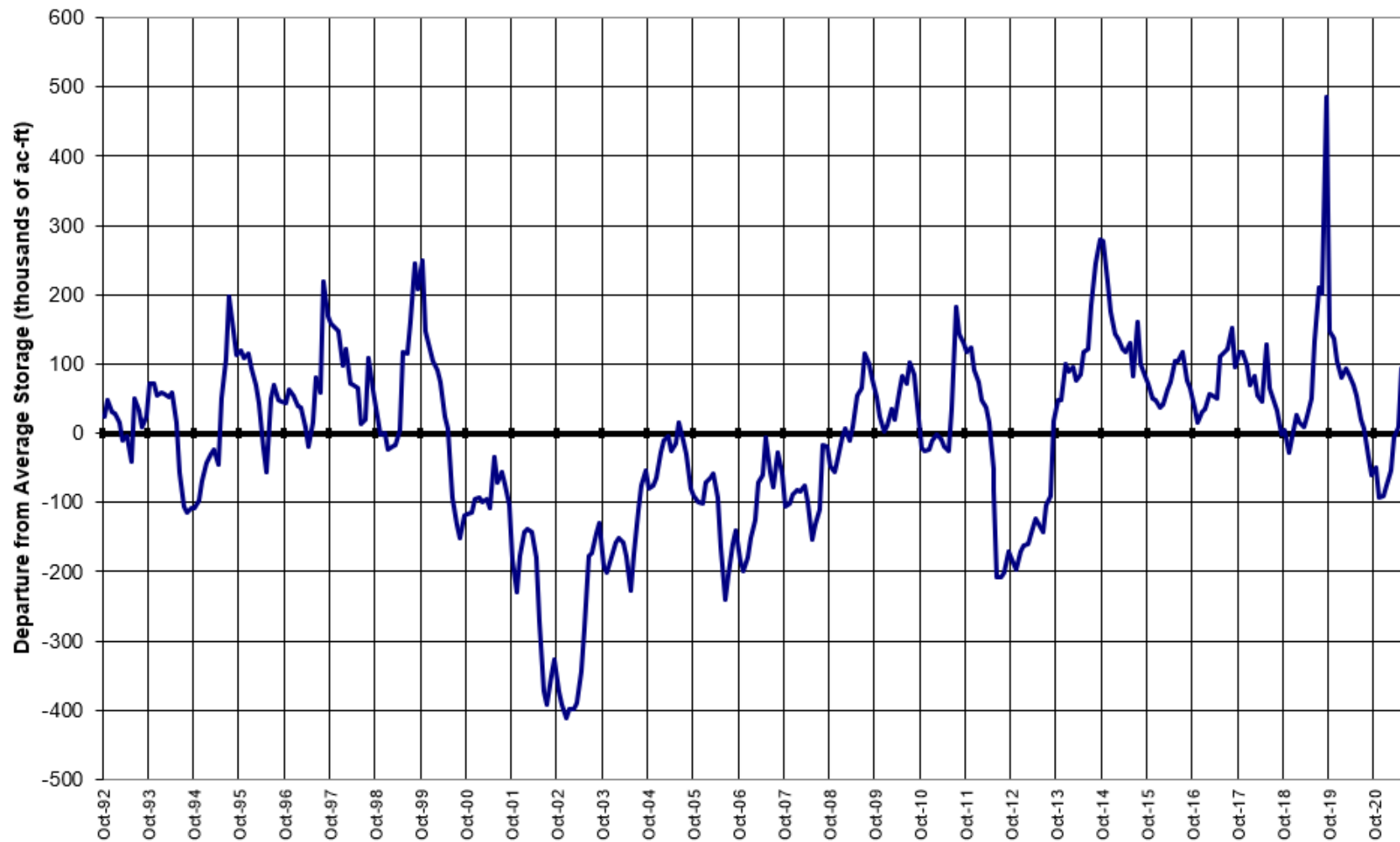
June 1, 2021



0 12.5 25 50 75 100 Miles

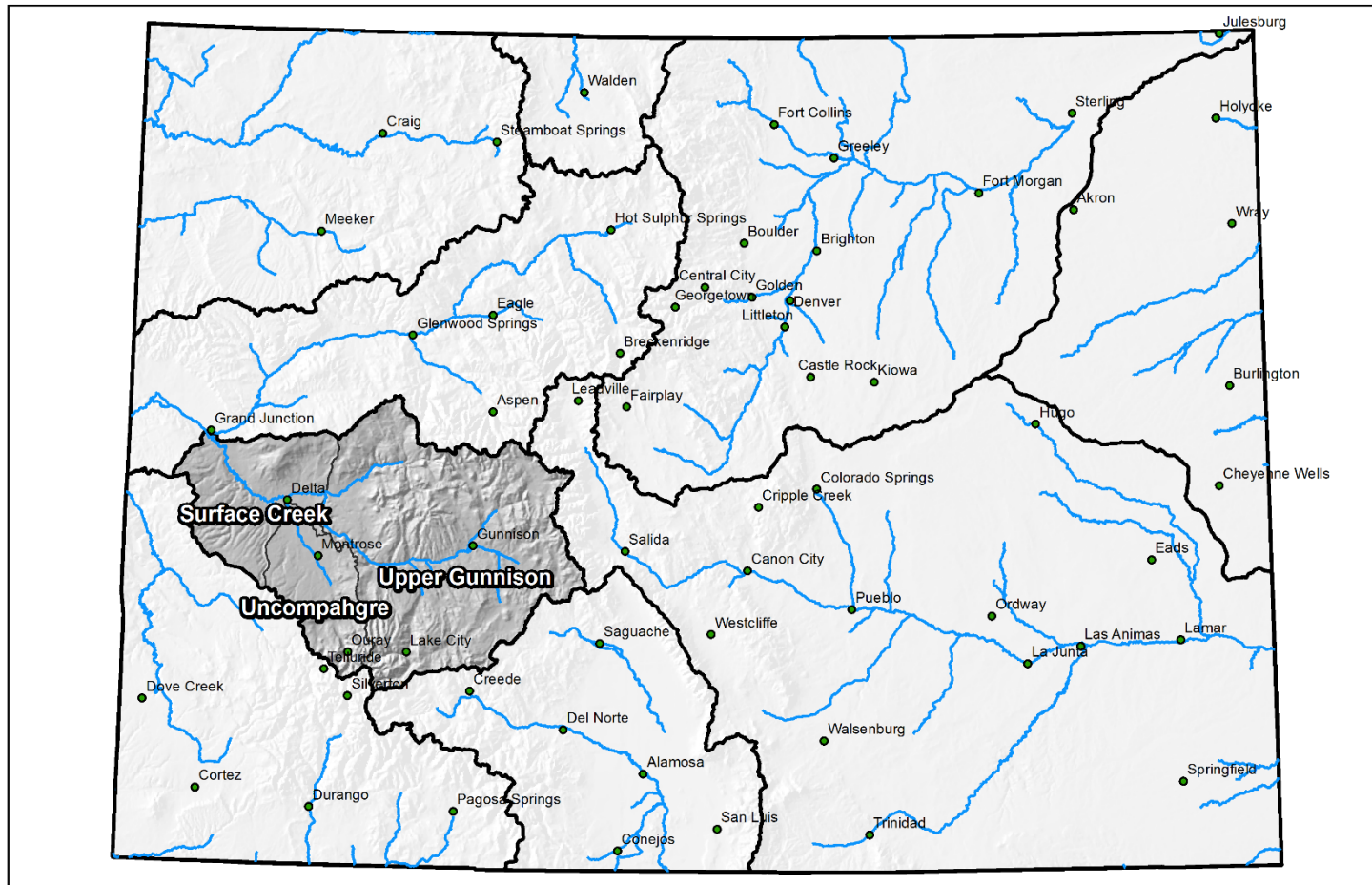


SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

Gunnison River Basin



0 25 50 100 150 200 Miles

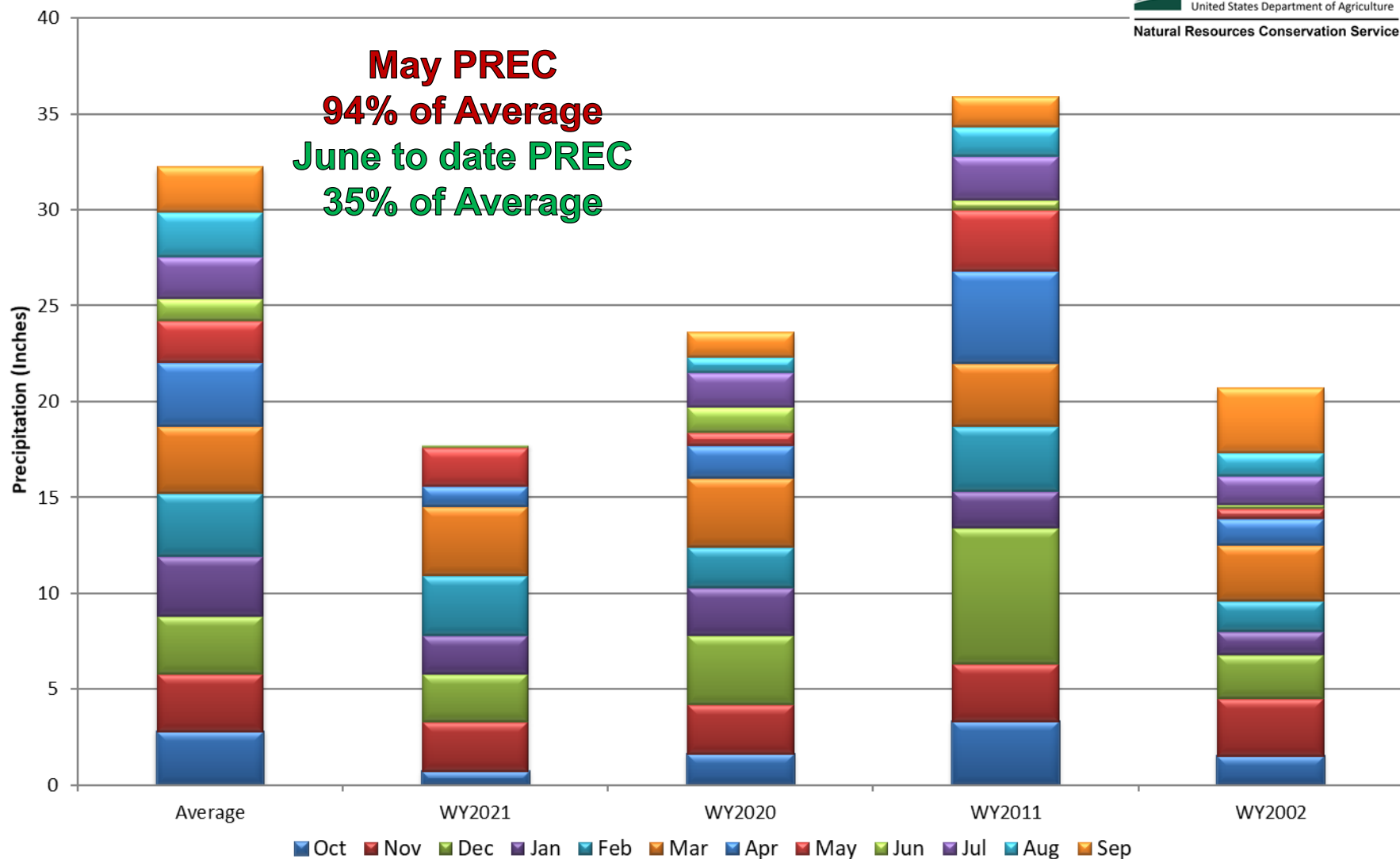
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 23, 2021



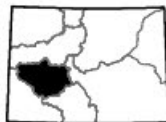
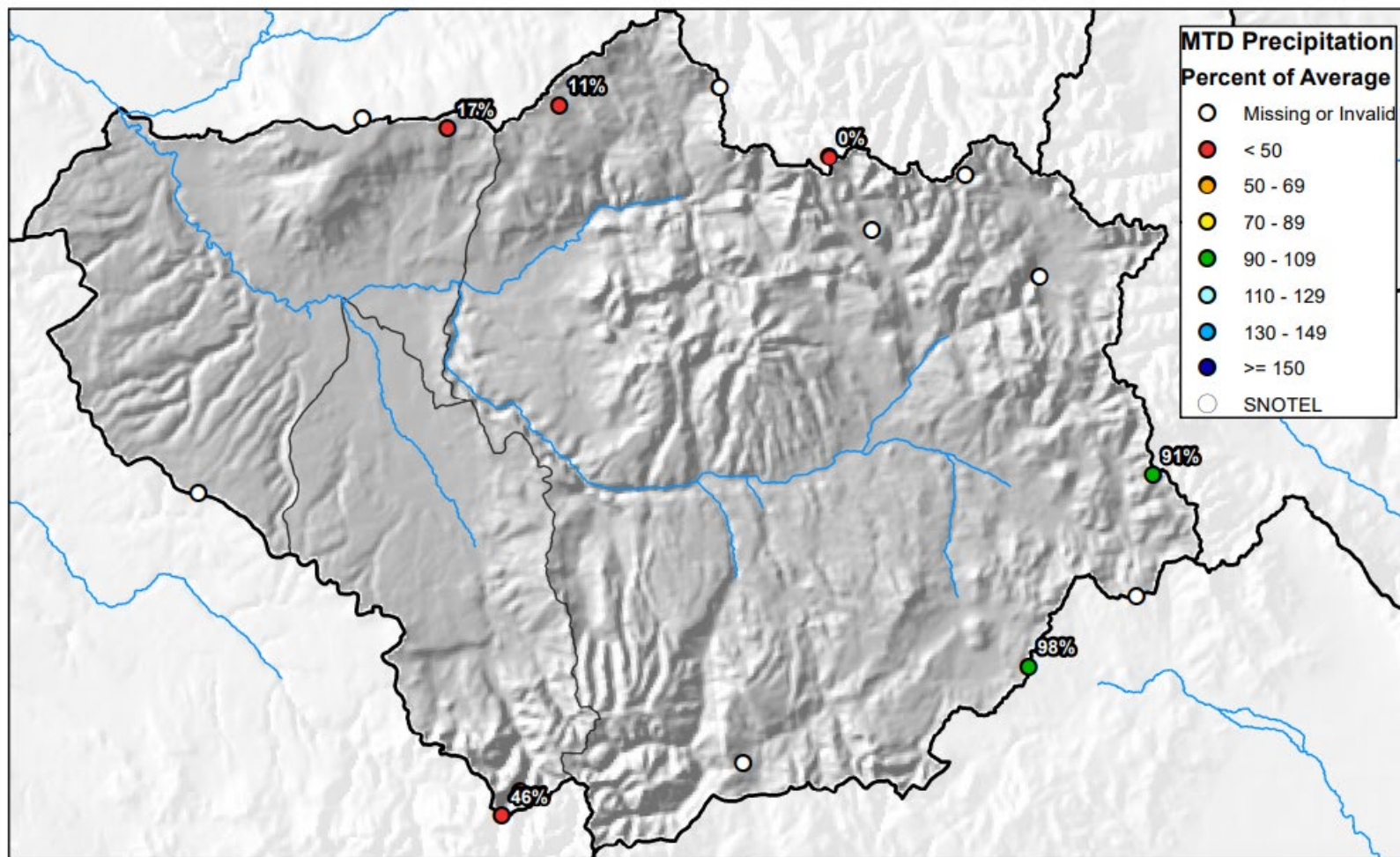
United States Department of Agriculture

Natural Resources Conservation Service



Gunnison River Basin Month to Date Precipitation Summary

Current as of Jun 23, 2021

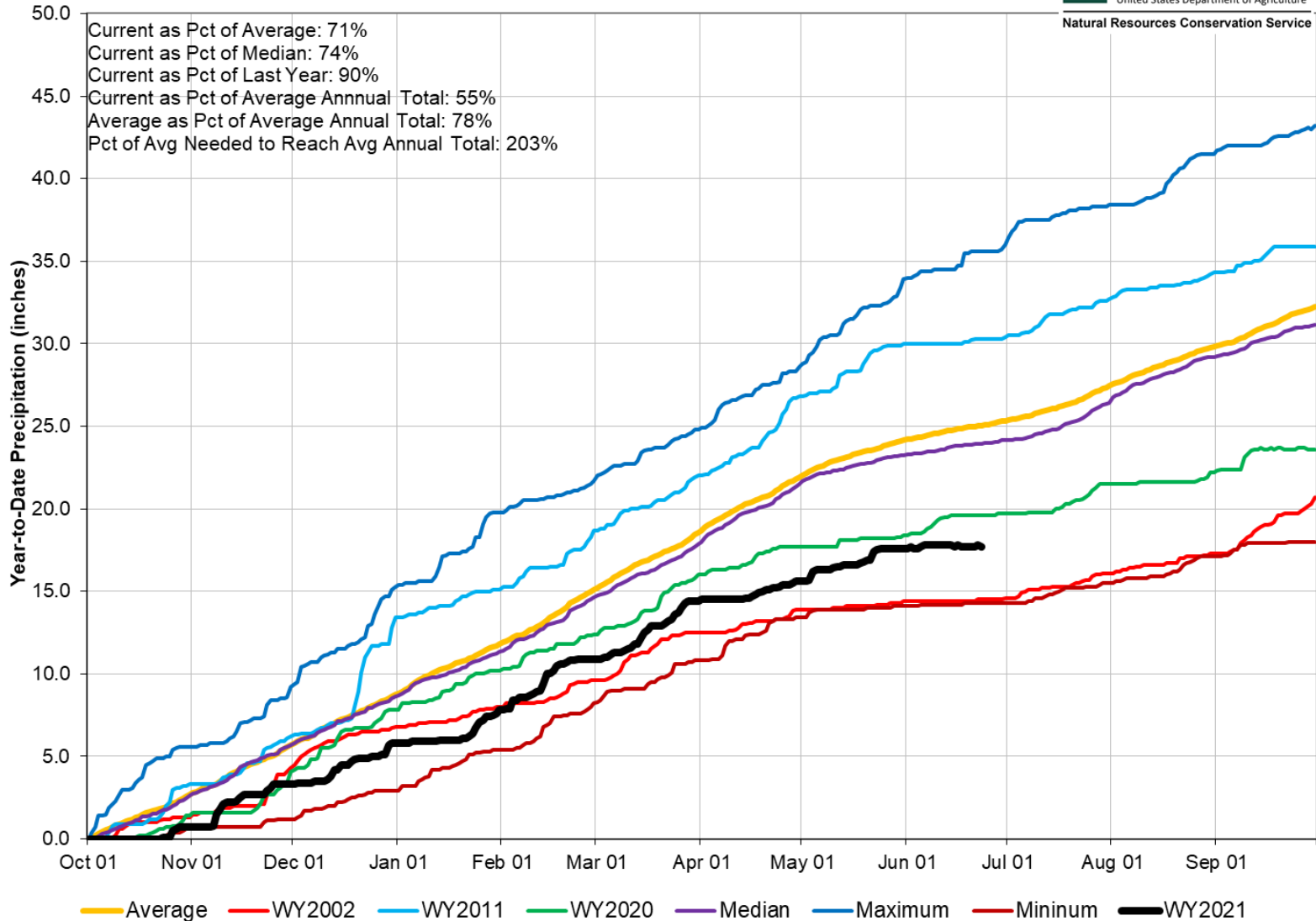


0 5 10 20 30 40 Miles

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

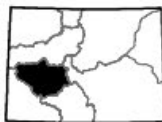
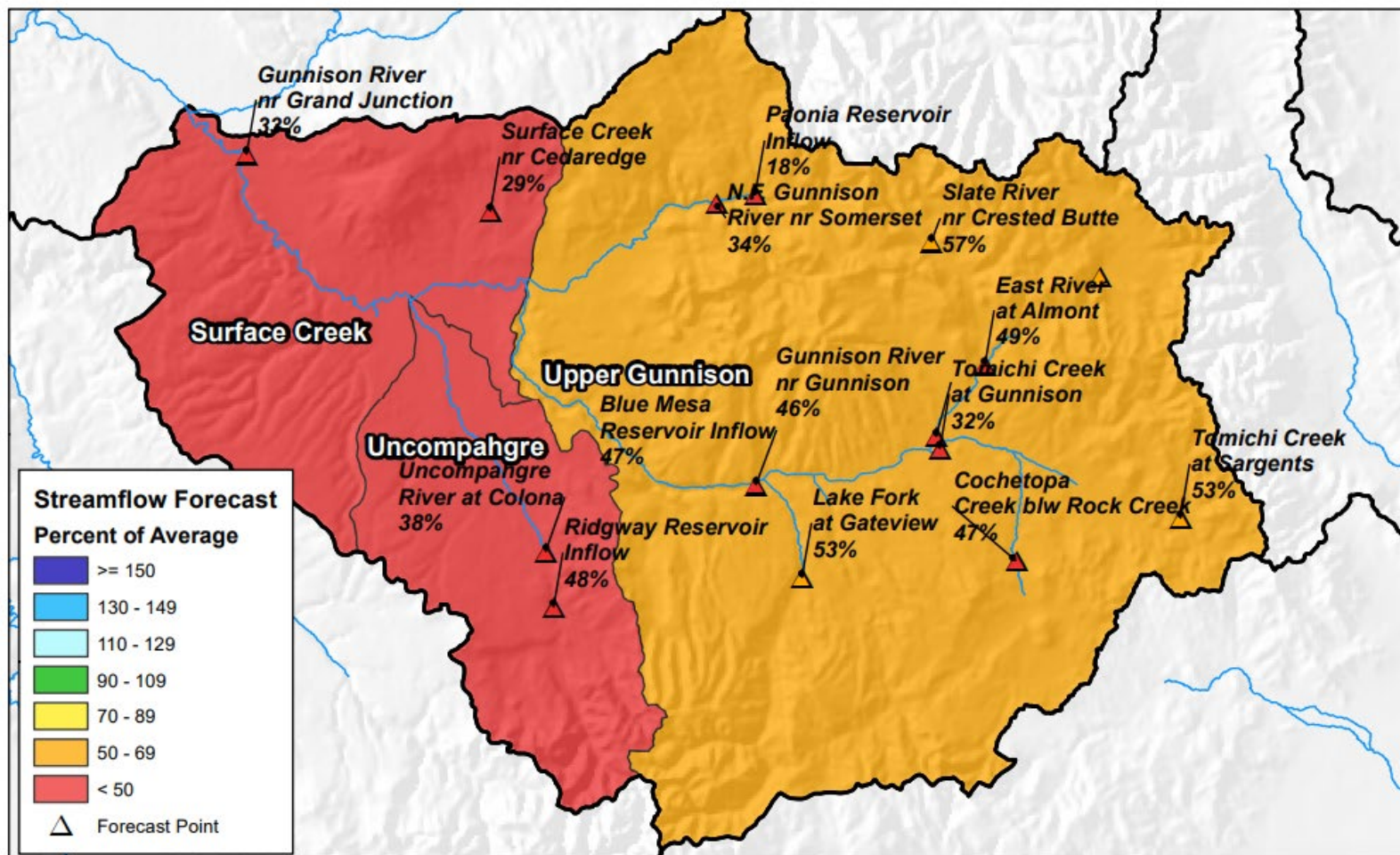
Based on Provisional SNOTEL data as of Jun 23, 2021

USDA
United States Department of Agriculture
Natural Resources Conservation Service

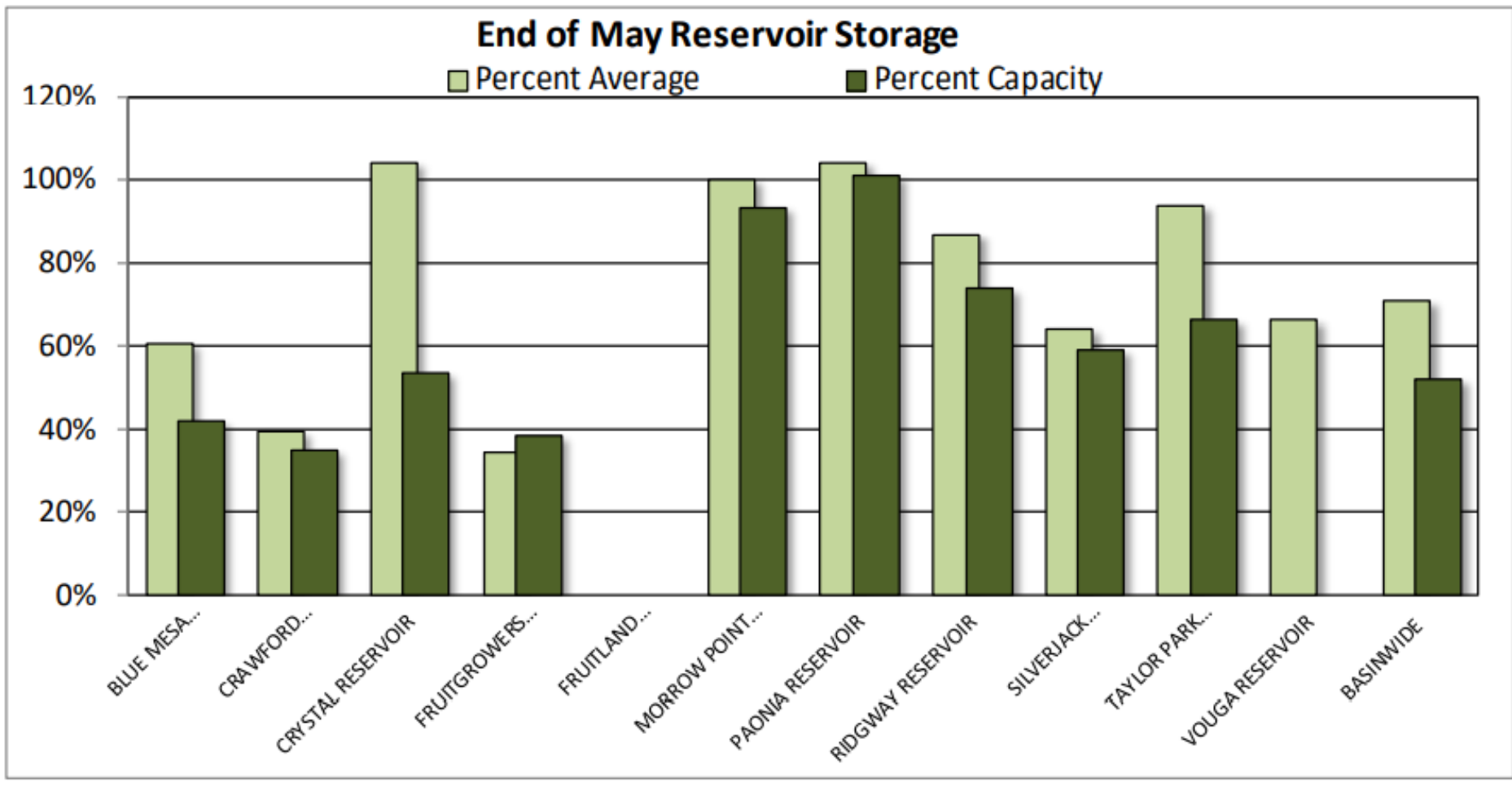


Gunnison River Basin Water Supply Forecast Summary

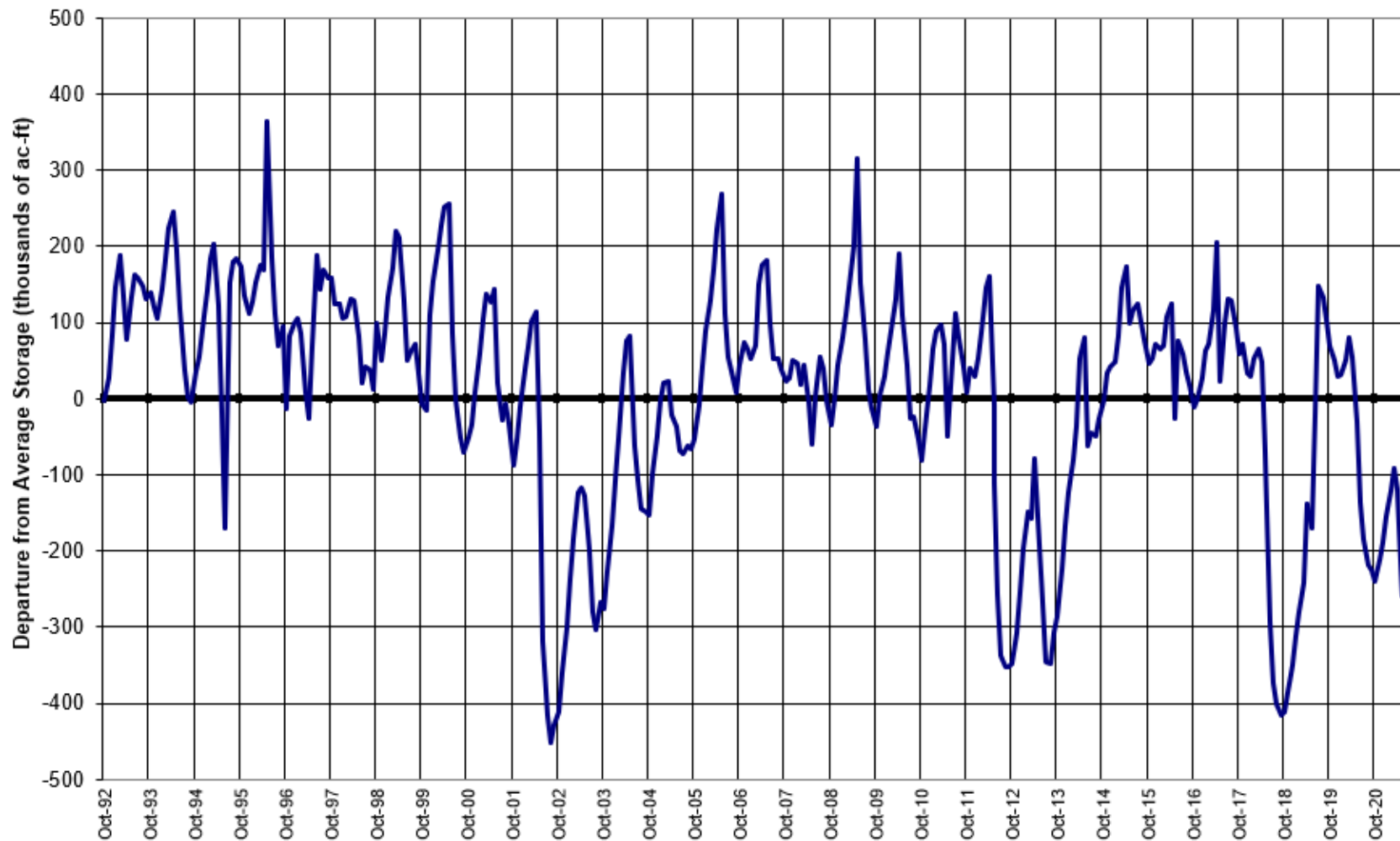
June 1, 2021



0 5 10 20 30 40 Miles

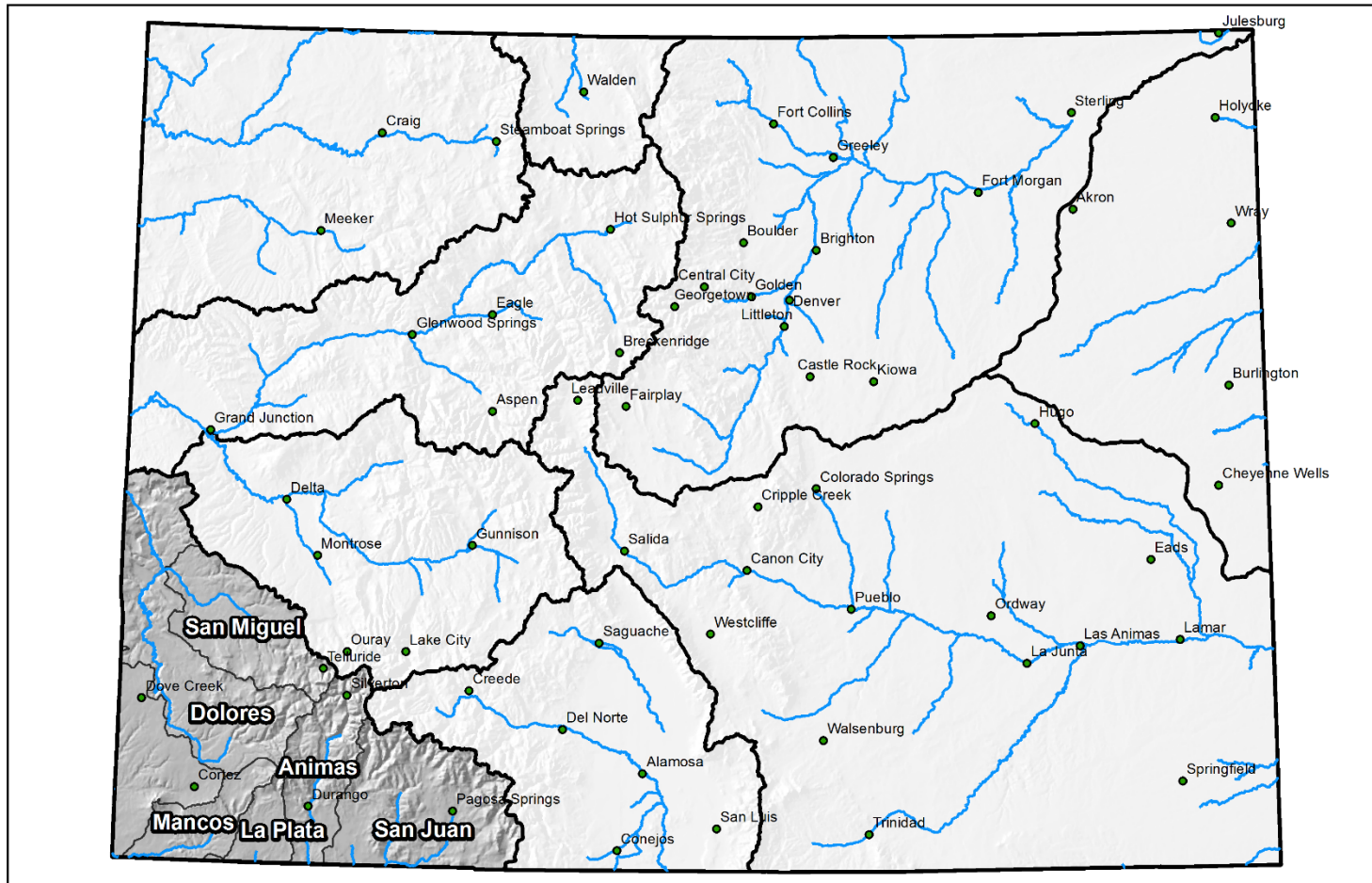


GUNNISON RIVER BASIN Reservoir Storage Departure from Average



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 Monthly Precipitation Summary

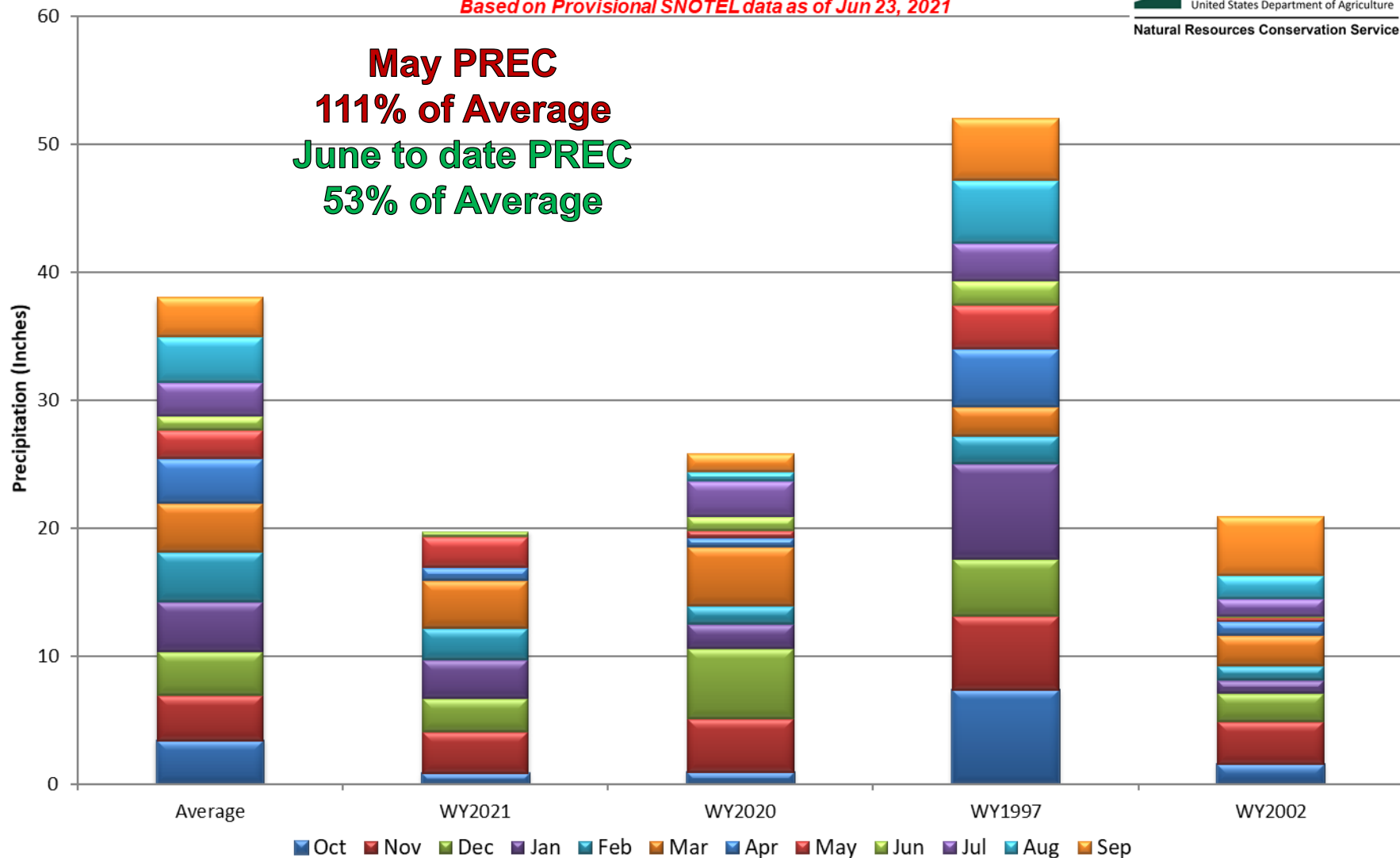
Based on Provisional SNOTEL data as of Jun 23, 2021



United States Department of Agriculture

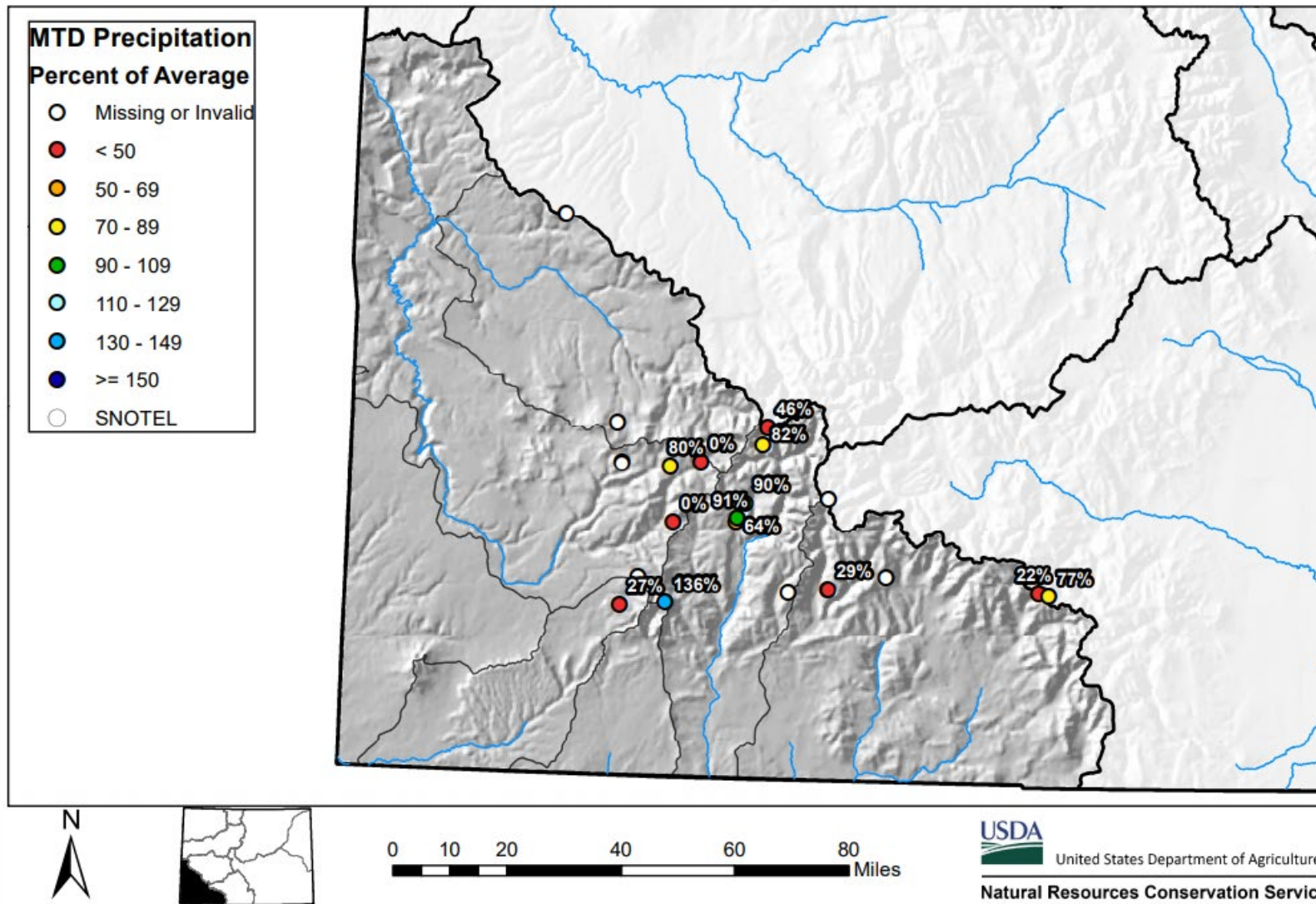
Natural Resources Conservation Service

May PREC
111% of Average
June to date PREC
53% of Average



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

Current as of Jun 23, 2021





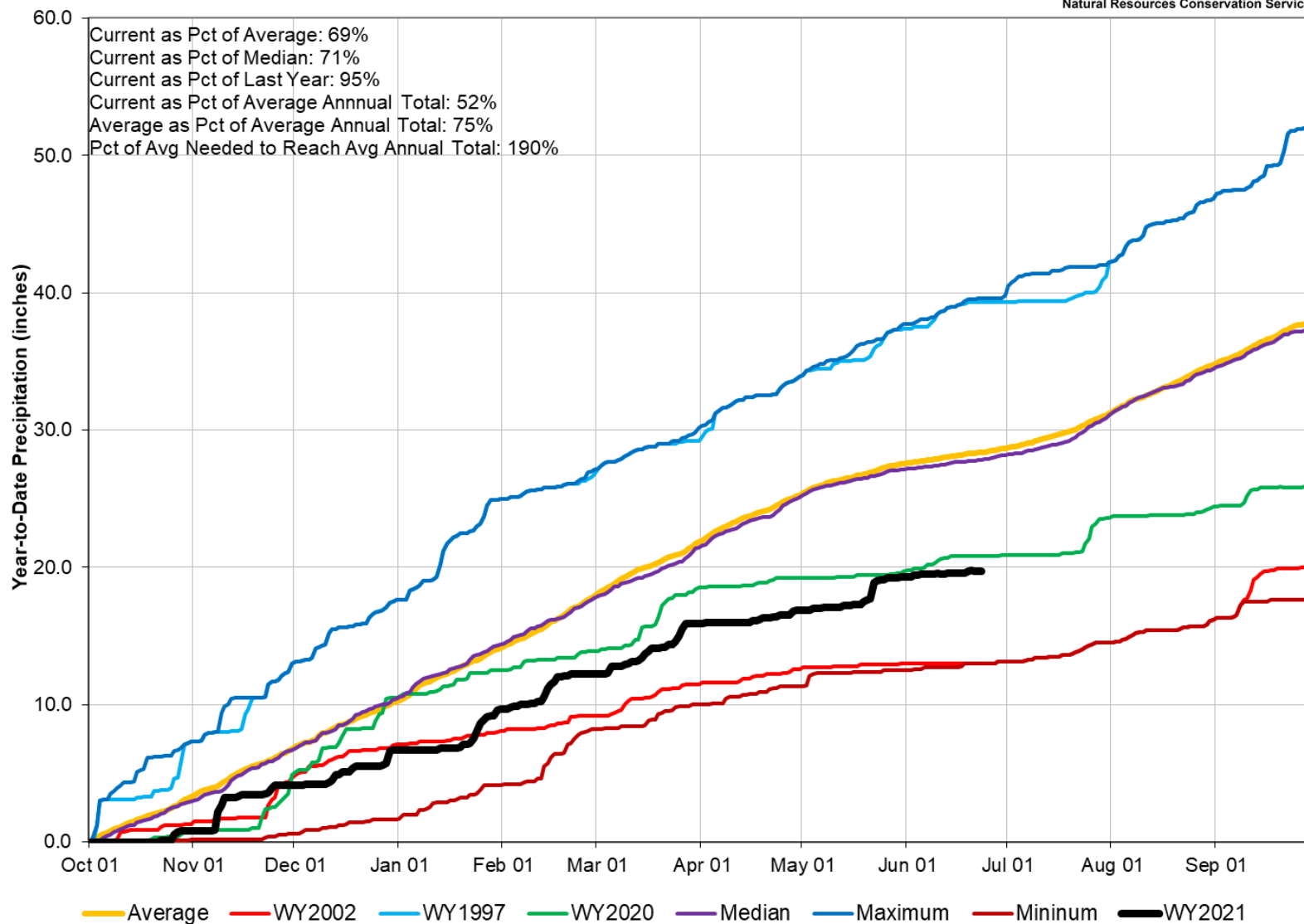
San Miguel, Dolores, Animas and San Juan River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jun 23, 2021



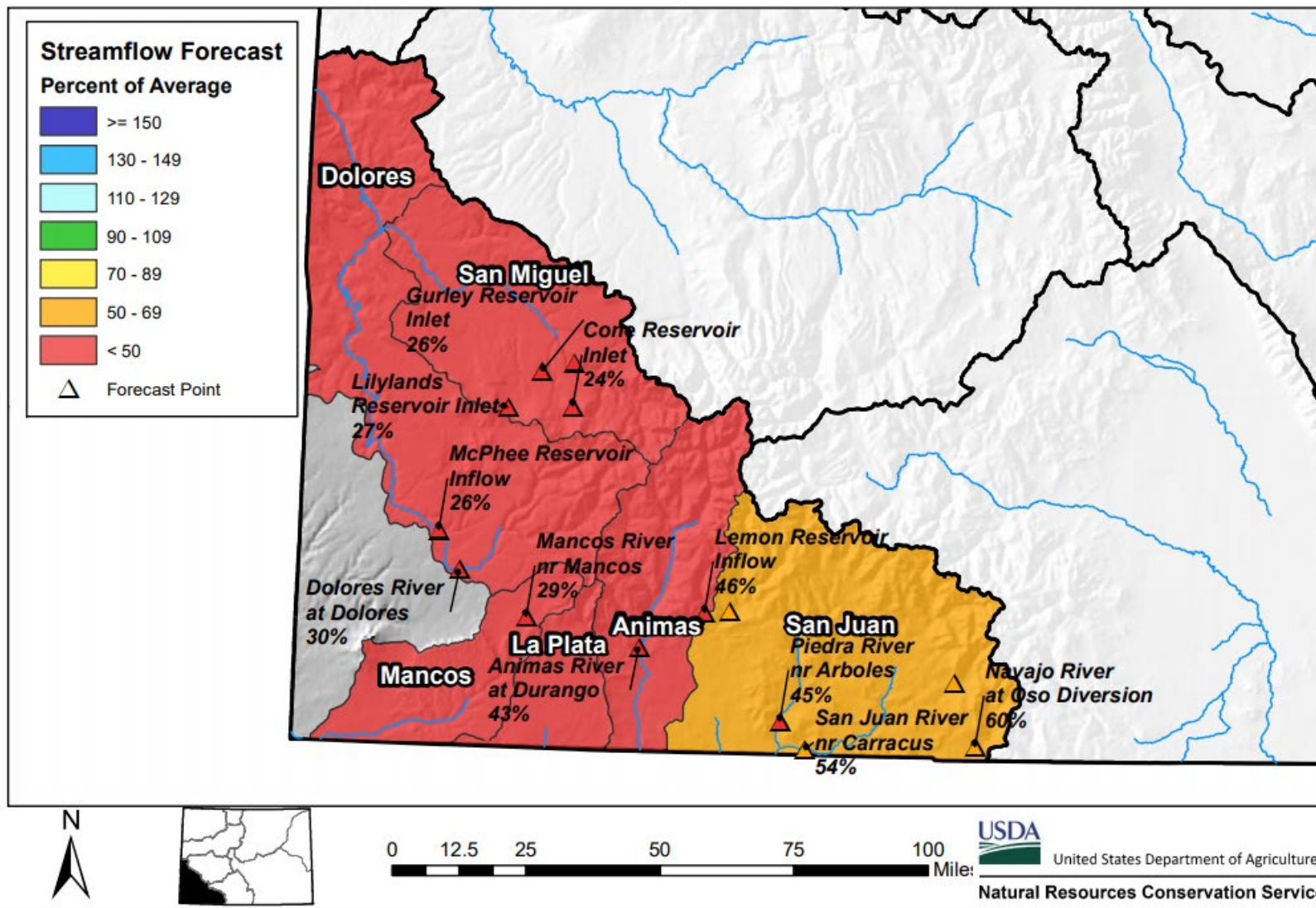
United States Department of Agriculture

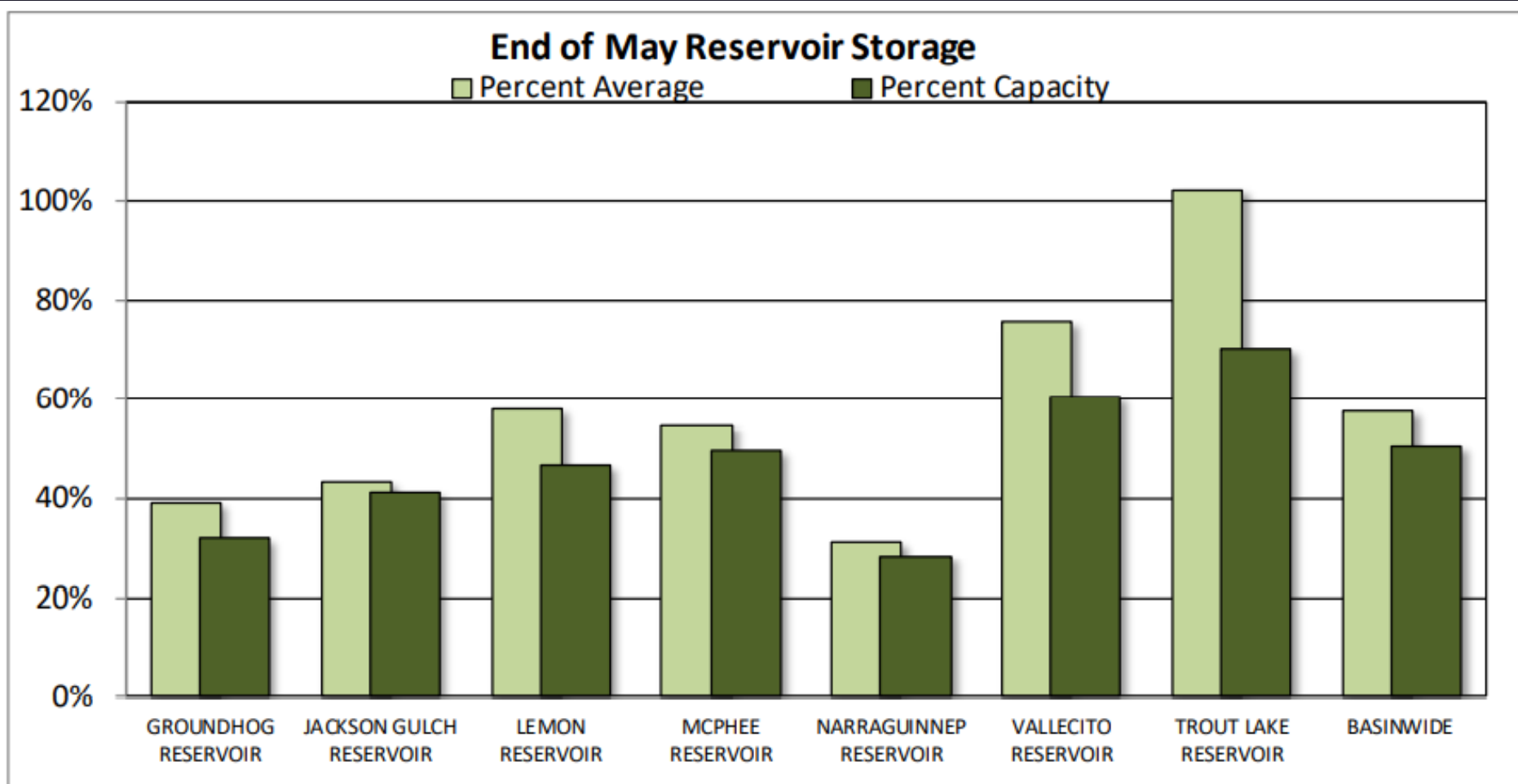
Natural Resources Conservation Service



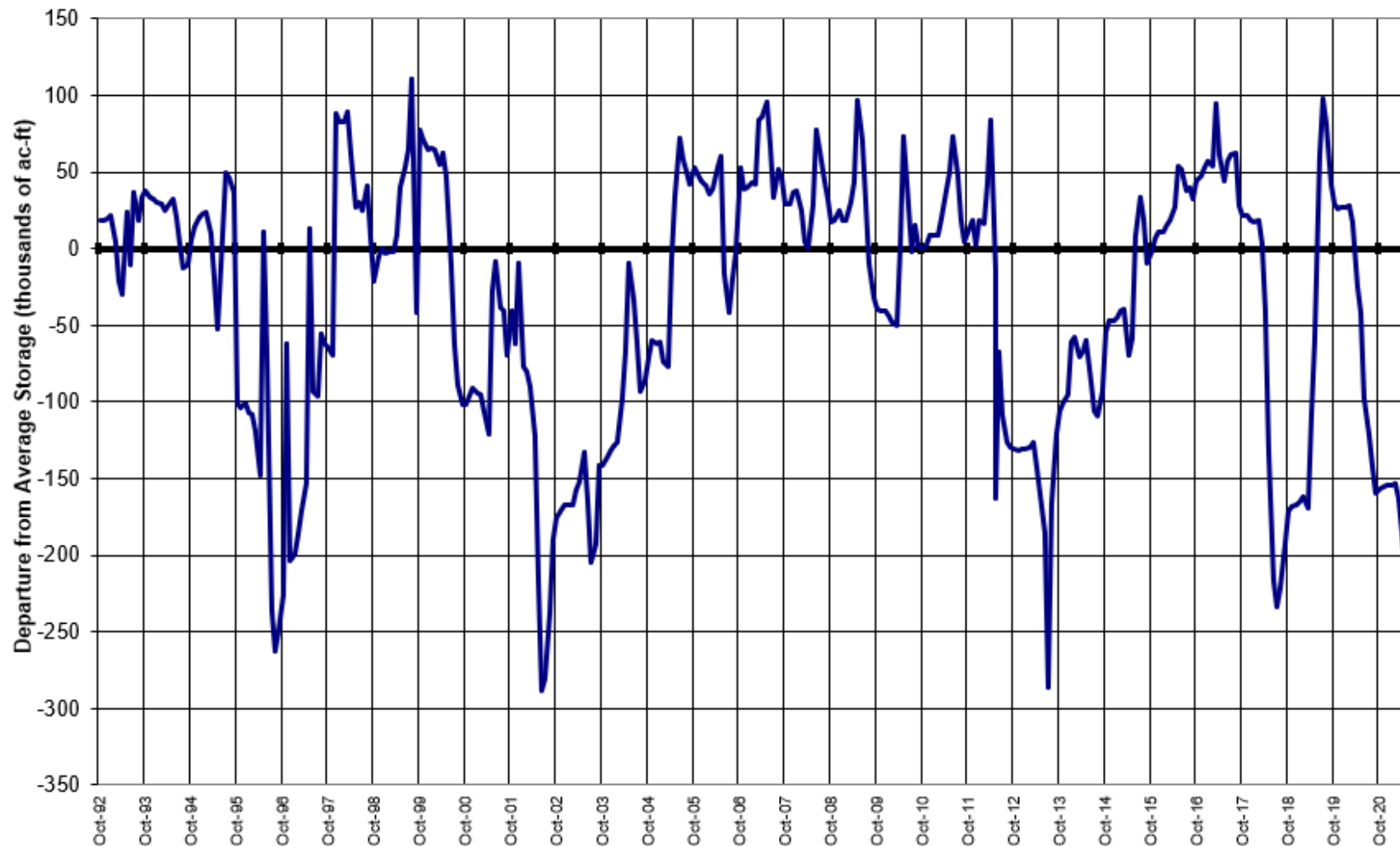
San Miguel, Dolores, Animas, and San Juan River Basins Streamflow Forecast Summary

June 1, 2021



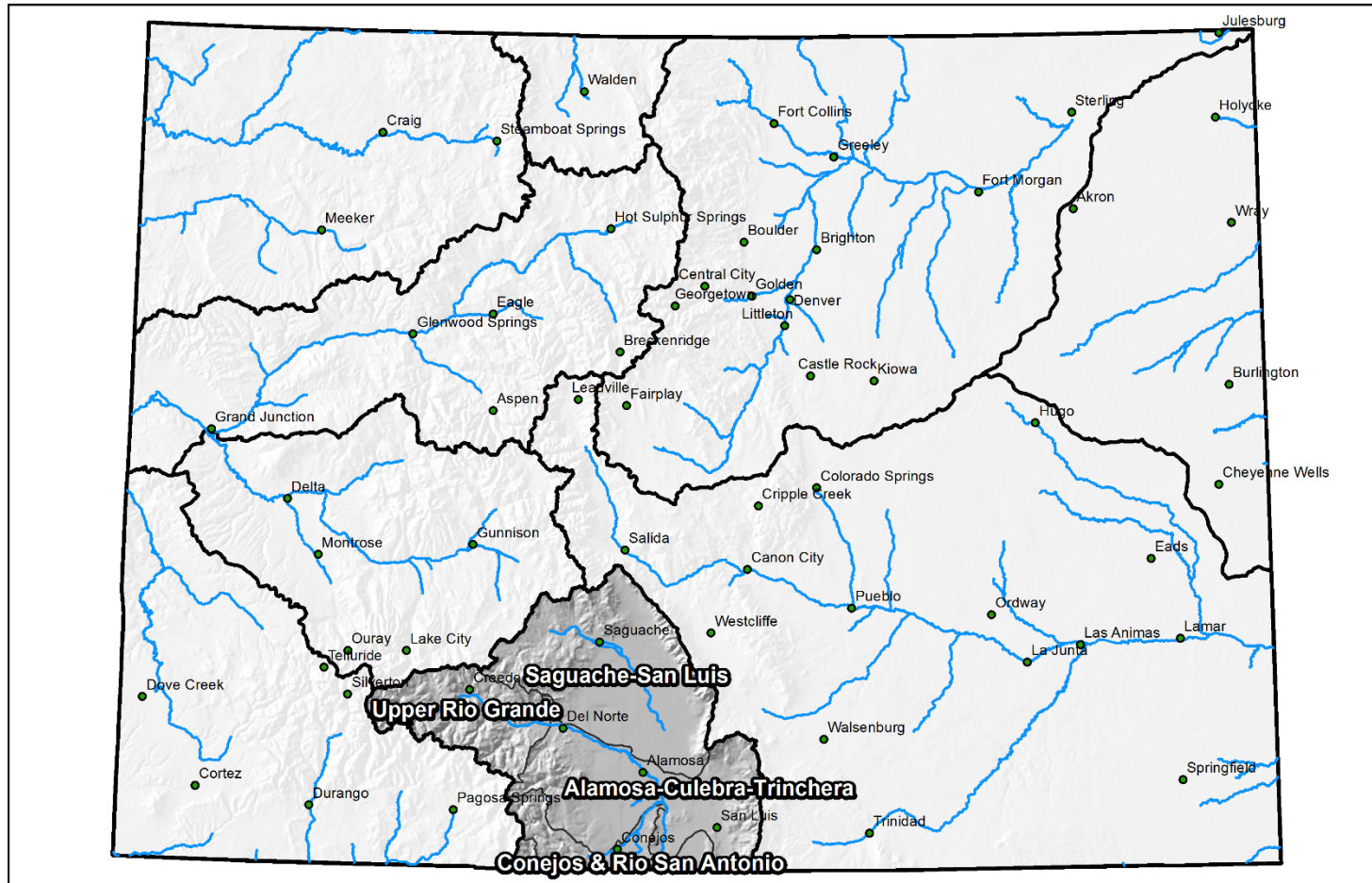


SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS Reservoir Storage Departure from Average



Major Basin Summary

Upper Rio Grande River Basin



0 25 50 100 150 200 Miles

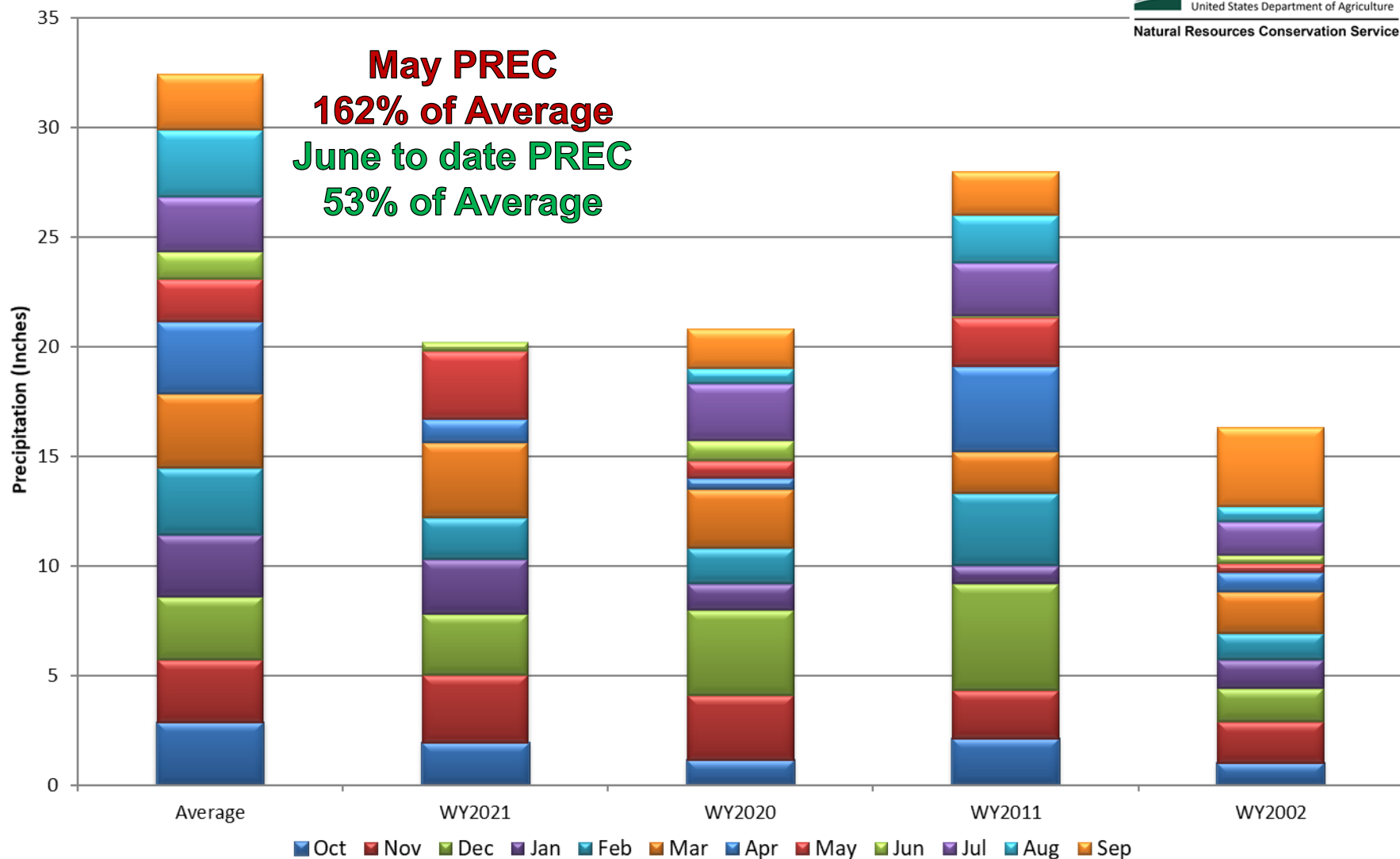
Upper Rio Grande River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 23, 2021



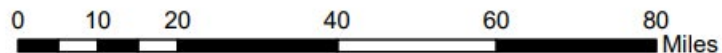
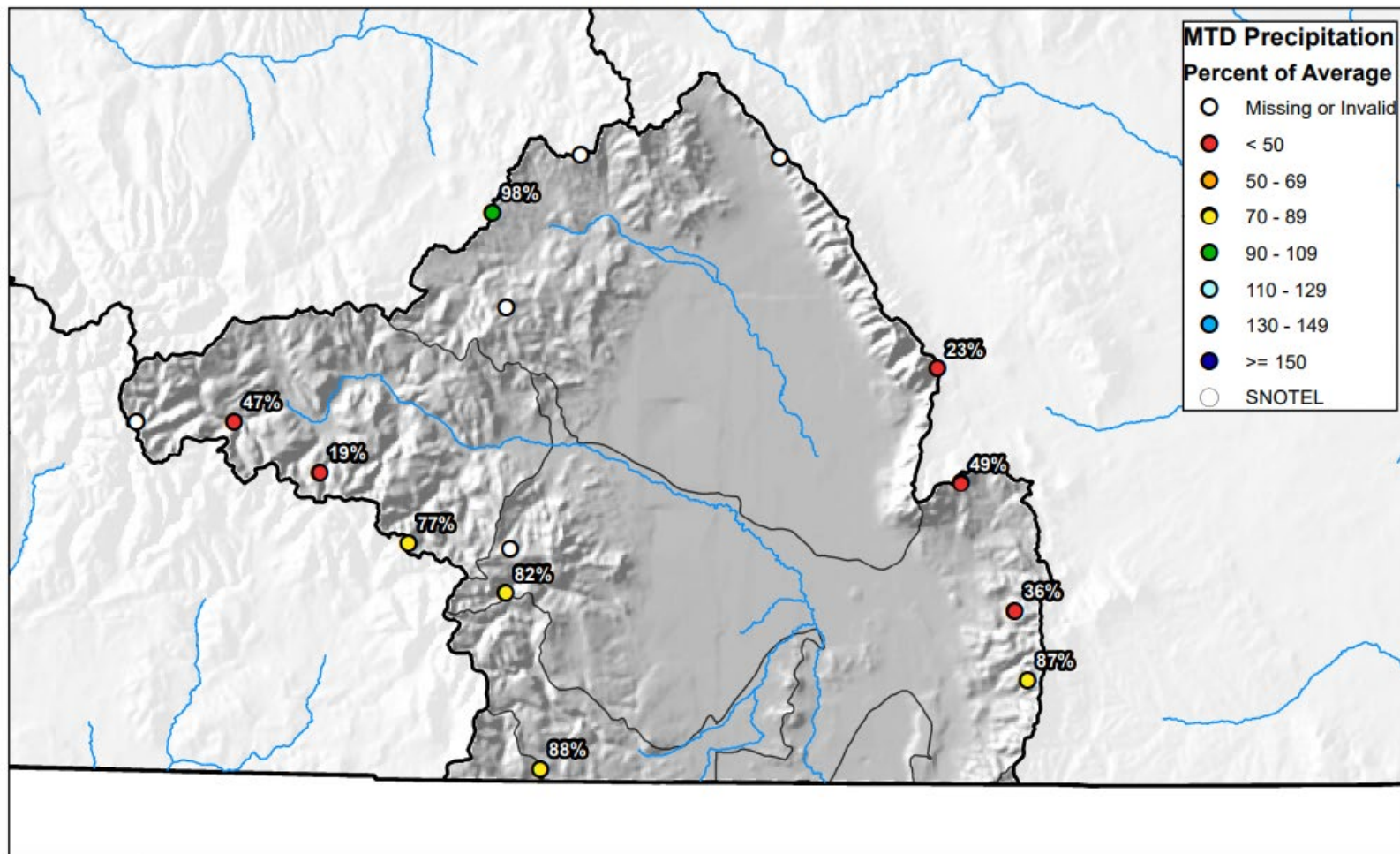
United States Department of Agriculture

Natural Resources Conservation Service



Upper Rio Grande River Basin Month to Date Precipitation Summary

Current as of Jun 23, 2021



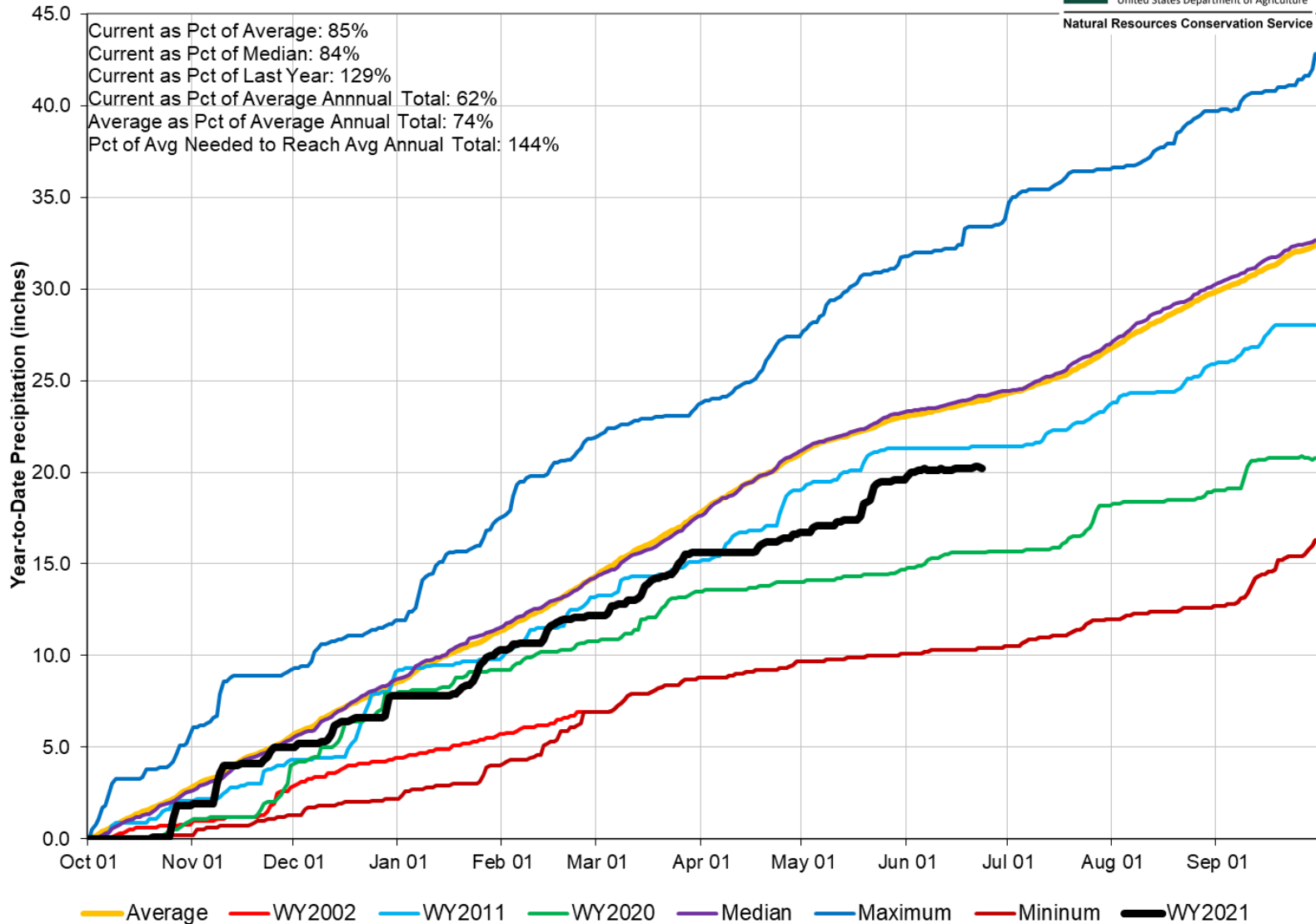
Upper Rio Grande River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jun 23, 2021



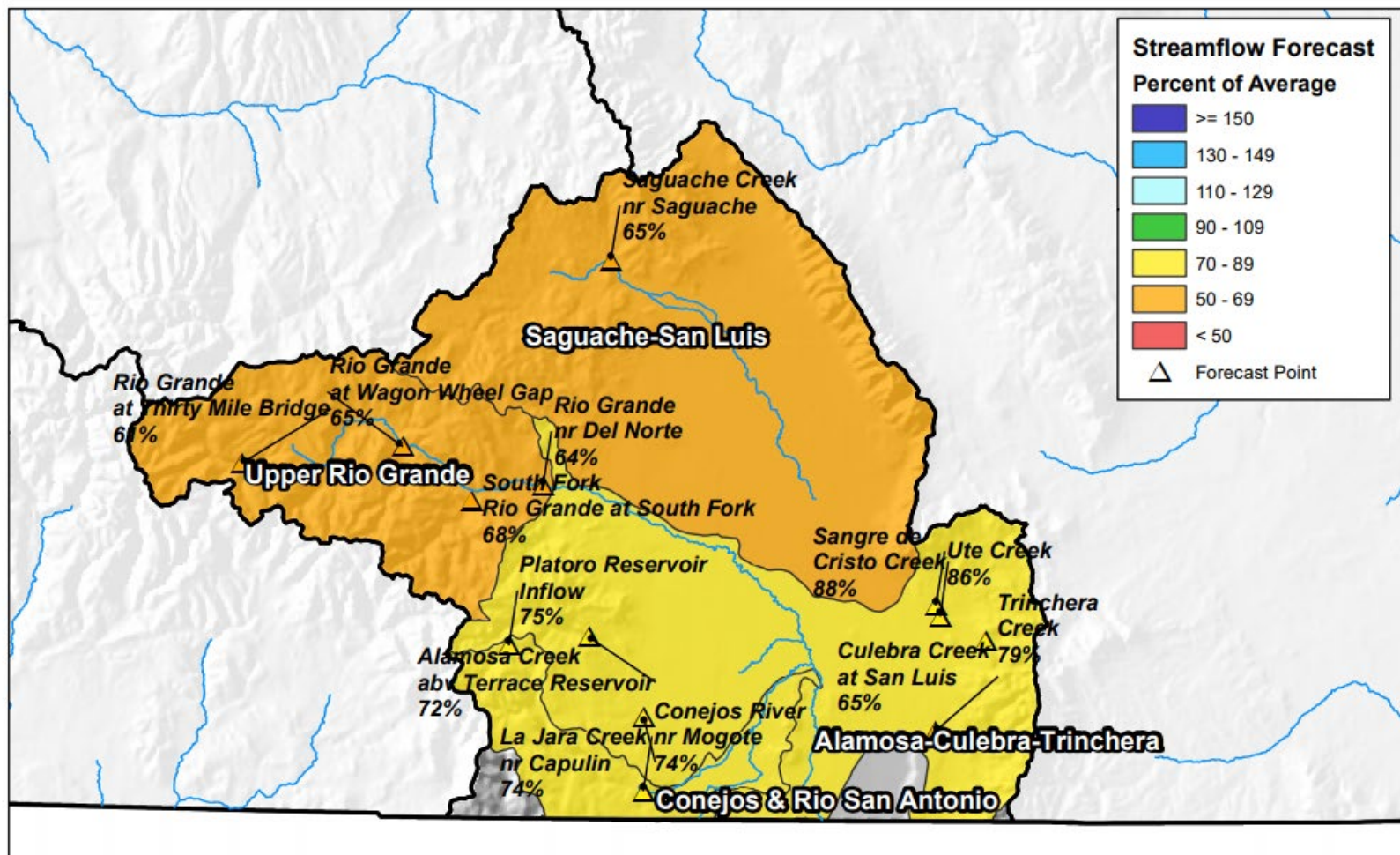
United States Department of Agriculture

Natural Resources Conservation Service



Upper Rio Grande River Basin Streamflow Forecast Summary

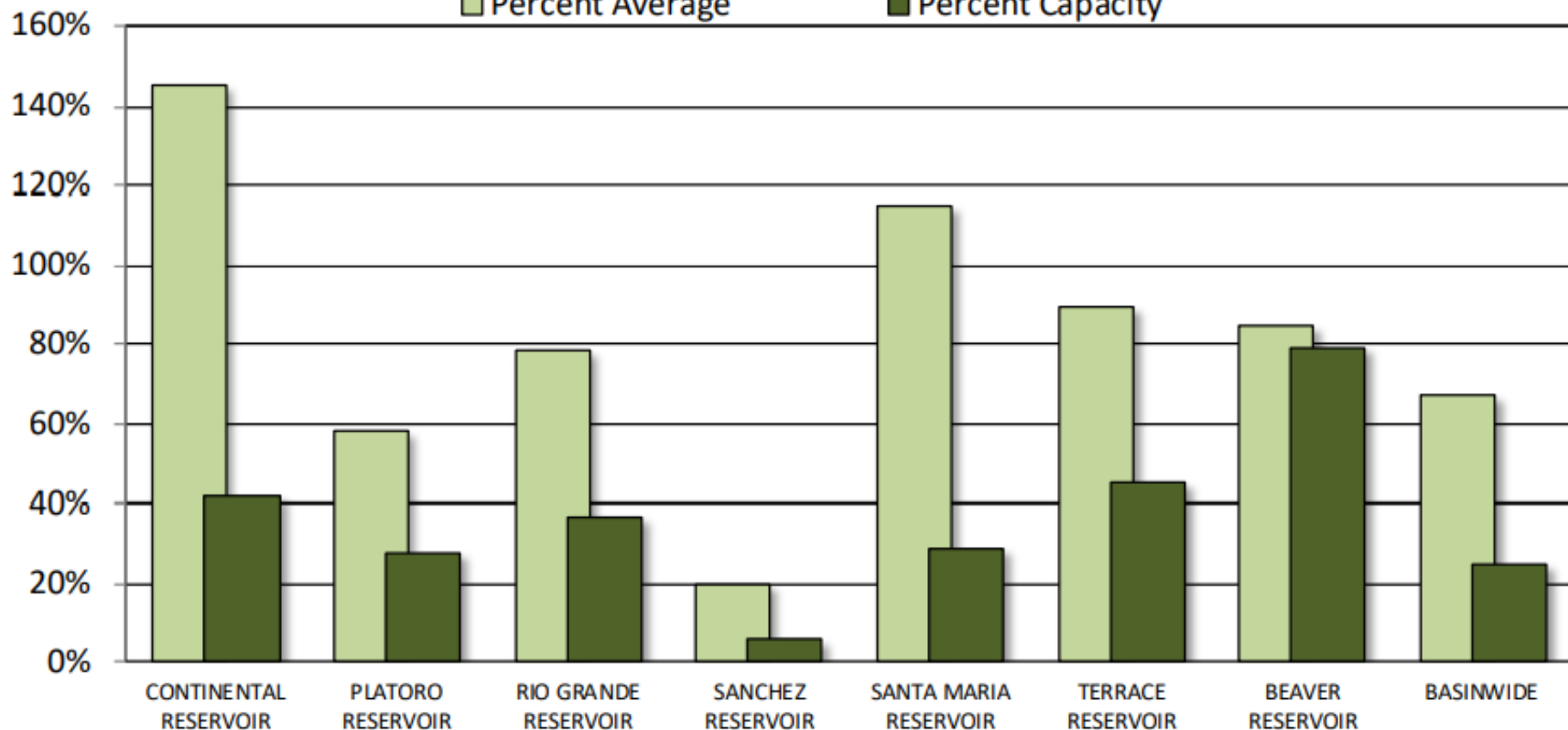
June 1, 2021



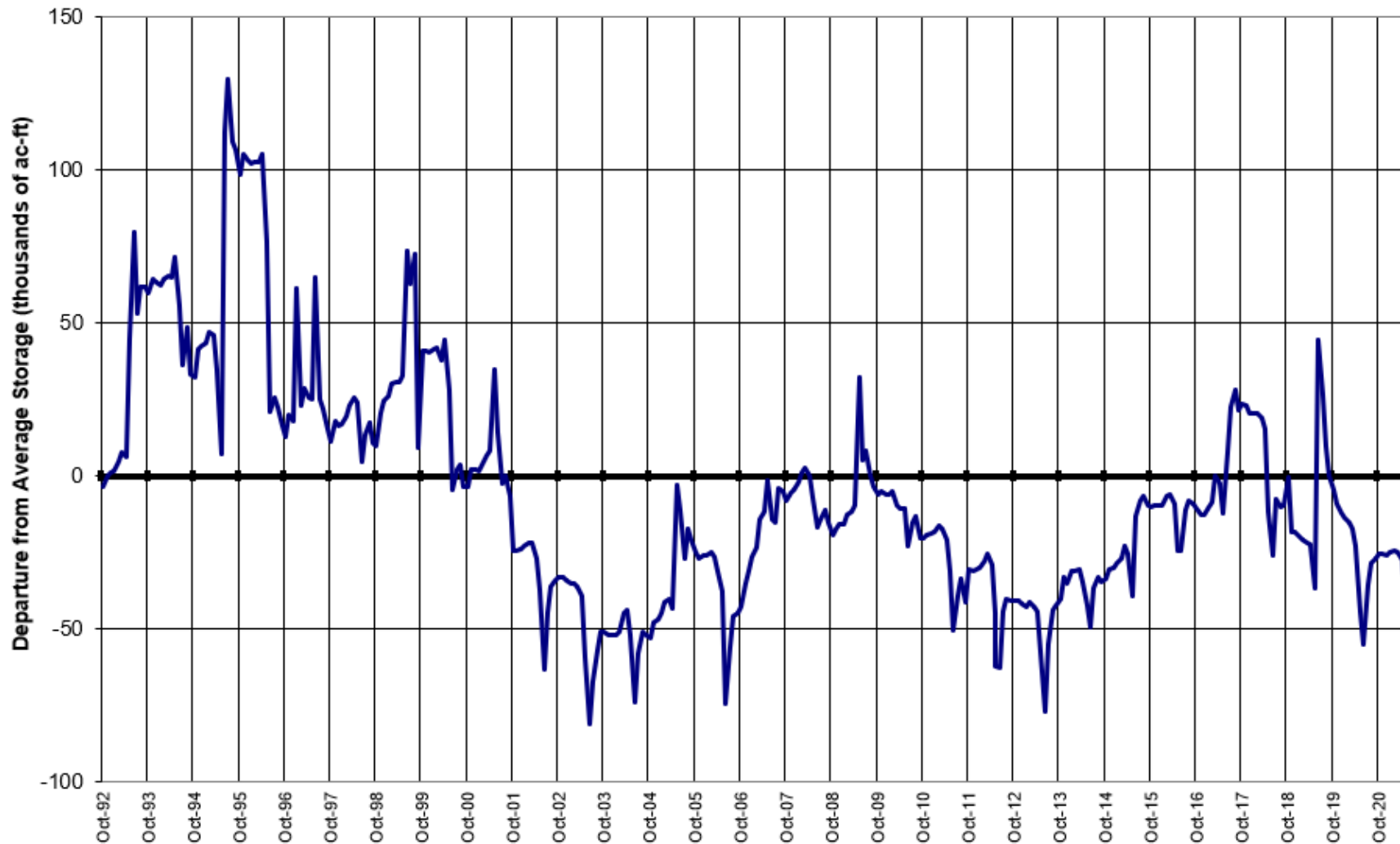
End of May Reservoir Storage

■ Percent Average

■ Percent Capacity

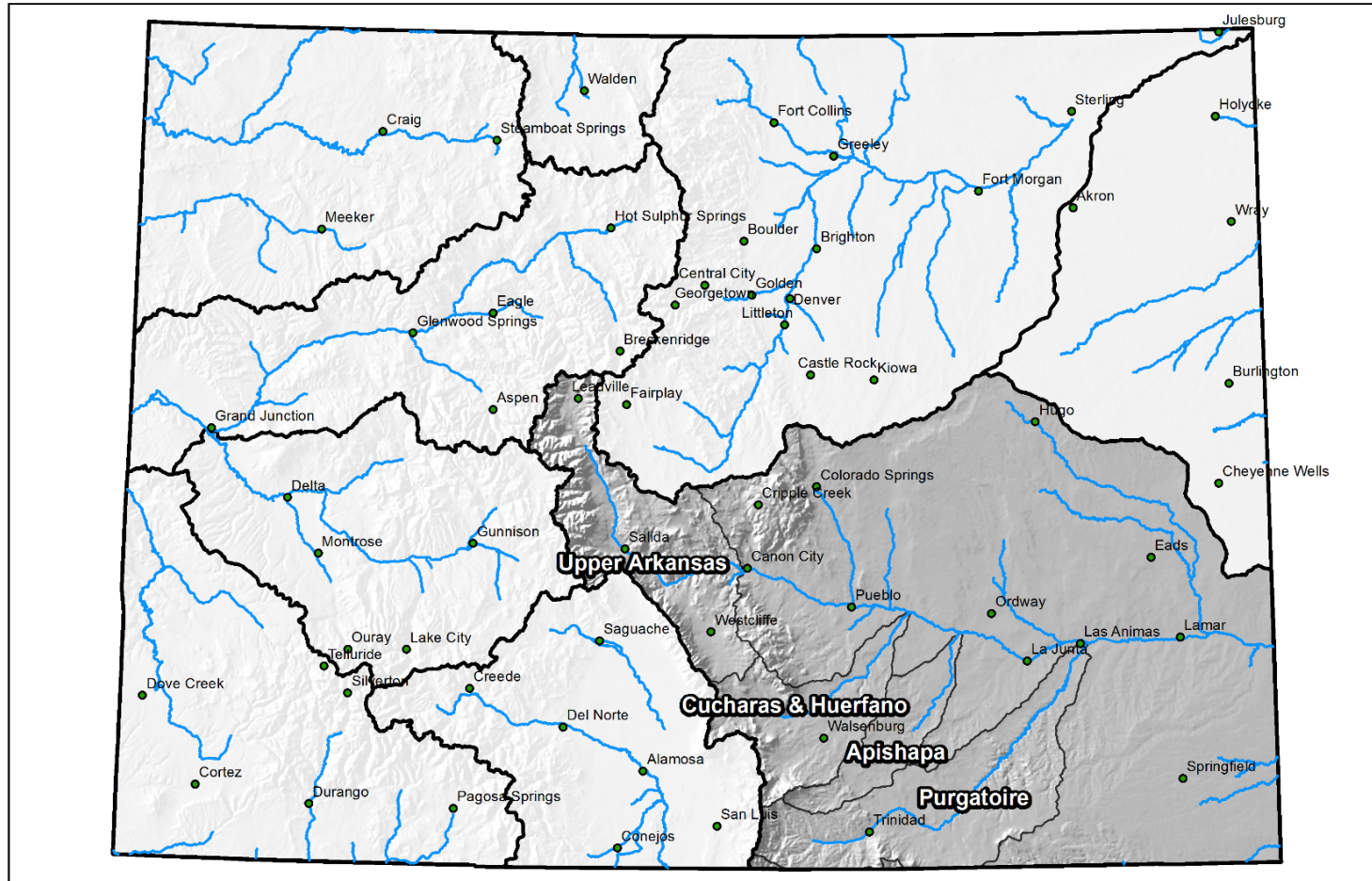


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



Major Basin Summary

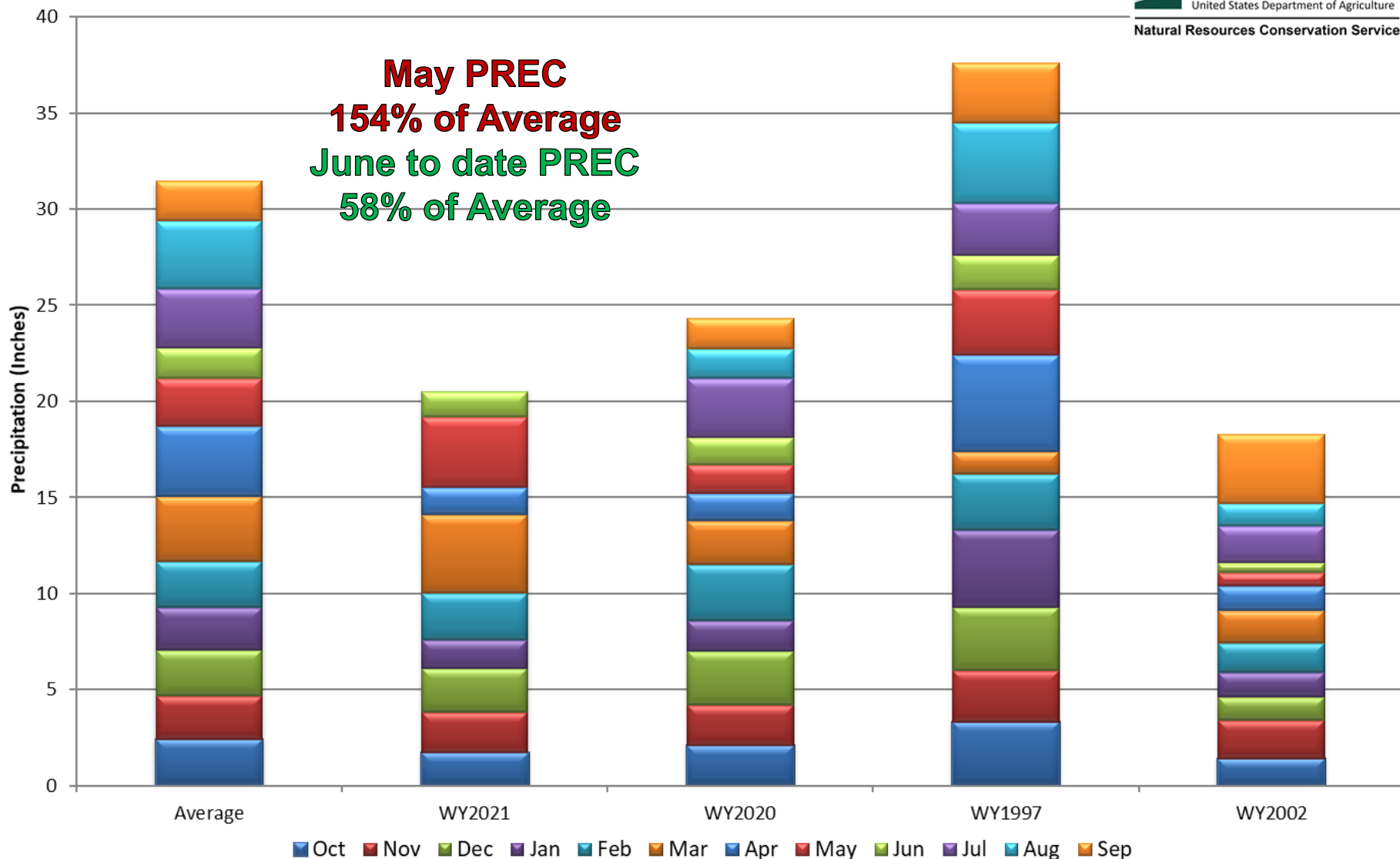
Arkansas River Basin



0 25 50 100 150 200 Miles

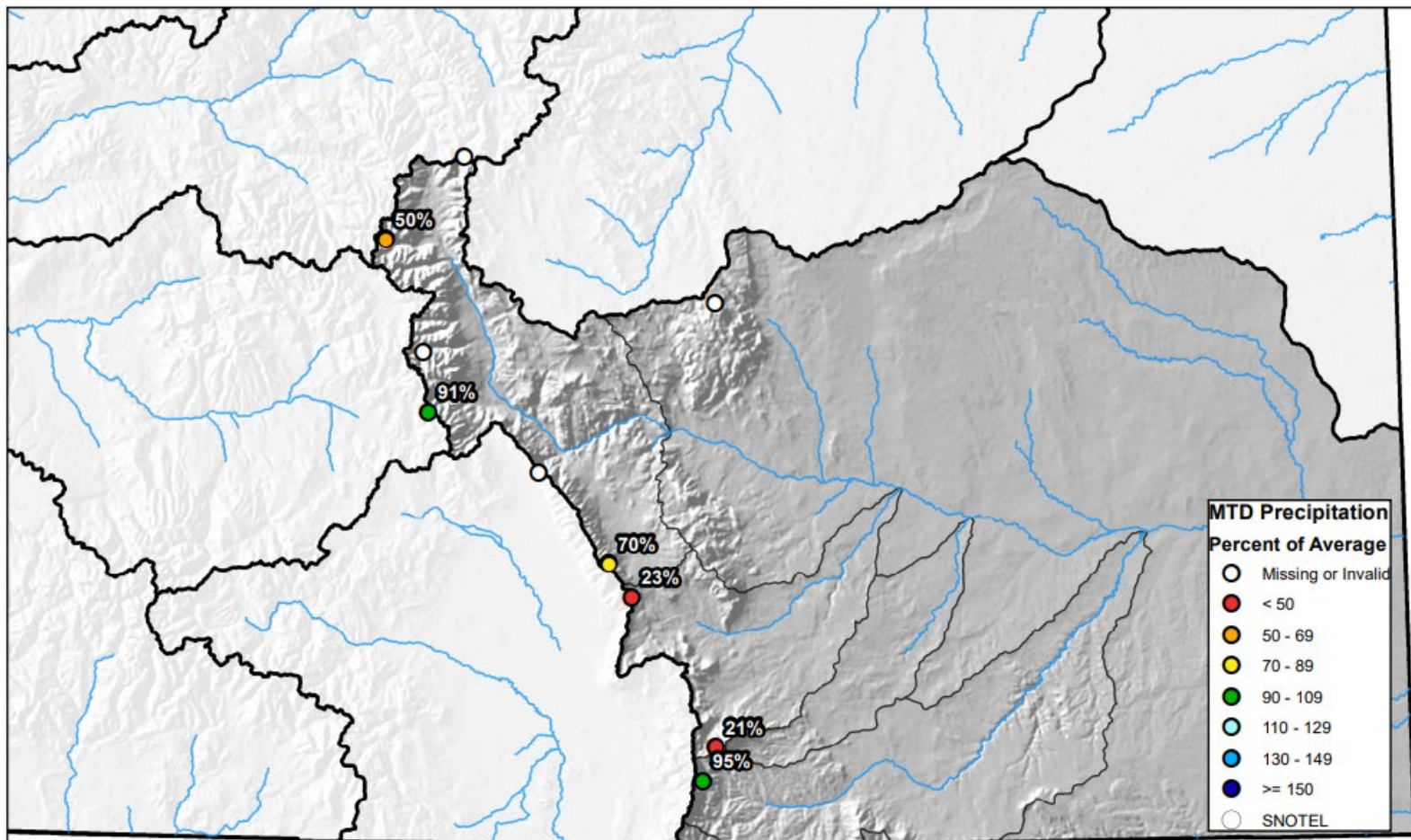
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Jun 23, 2021



Arkansas River Basin Month to Date Precipitation Summary

Current as of Jun 23, 2021



0 10 20 40 60 80 Miles

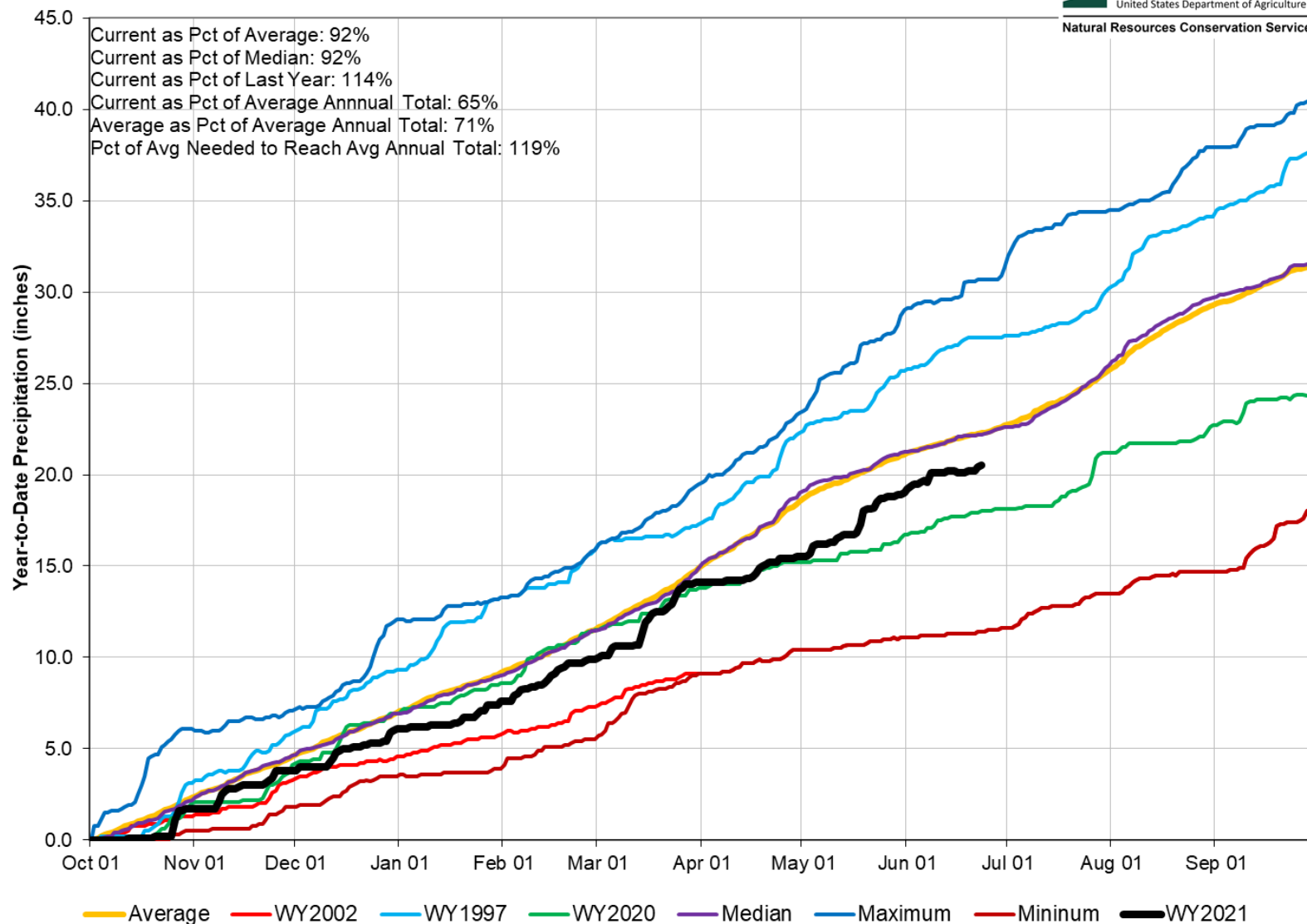
Arkansas River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Jun 23, 2021



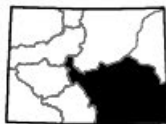
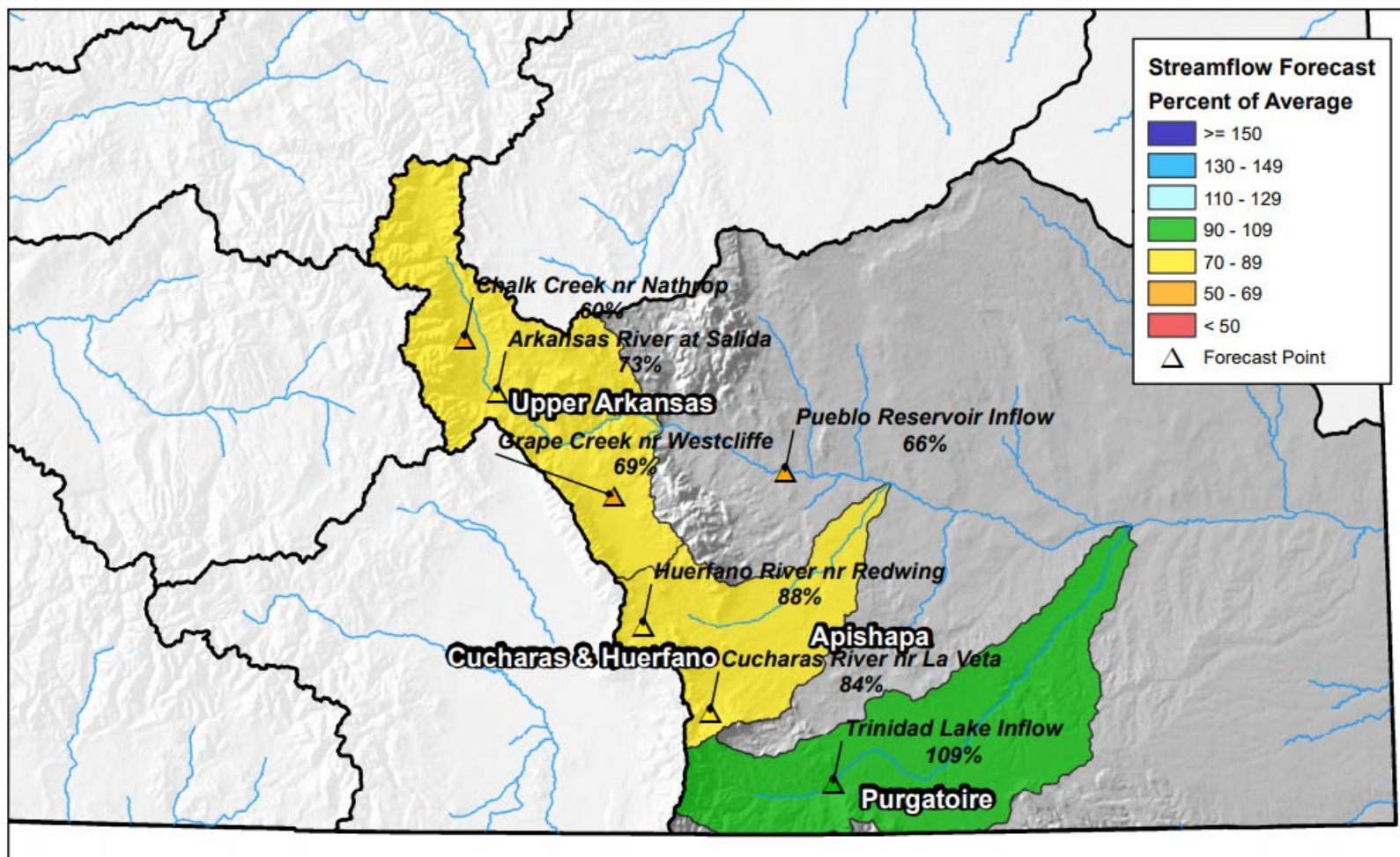
United States Department of Agriculture

Natural Resources Conservation Service

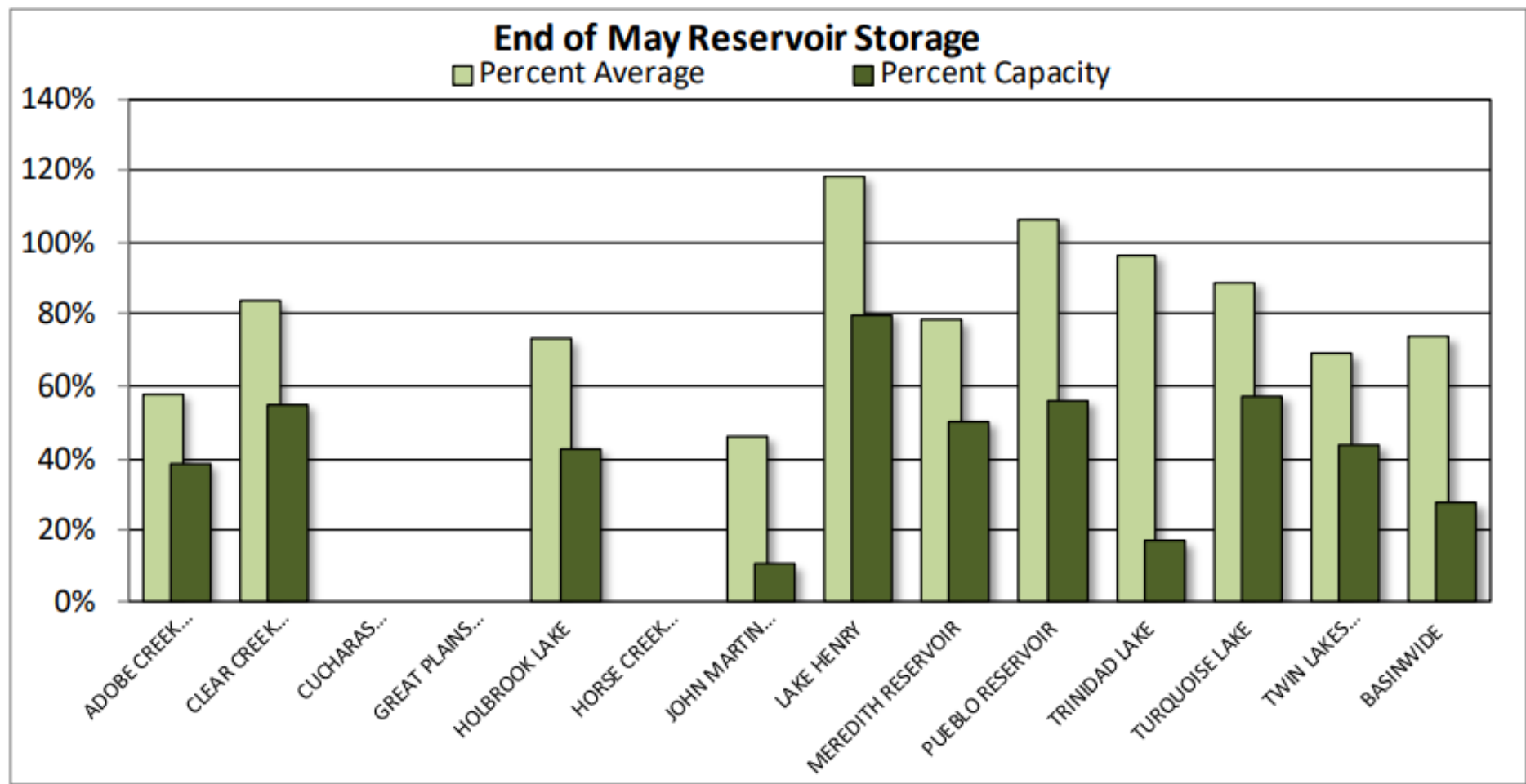


Arkansas River Basin Streamflow Forecast Summary

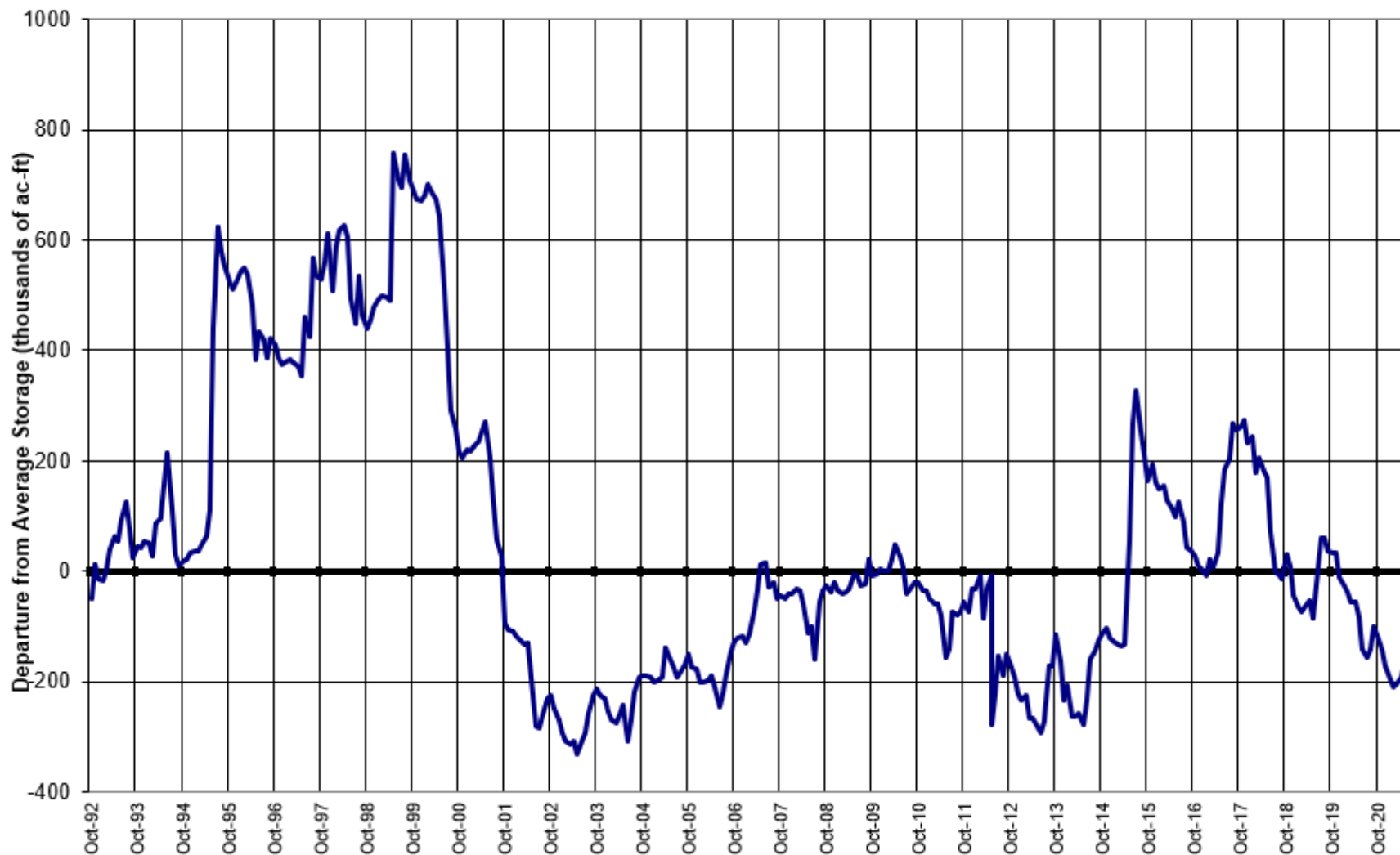
June 1, 2021



0 10 20 40 60 80 Miles

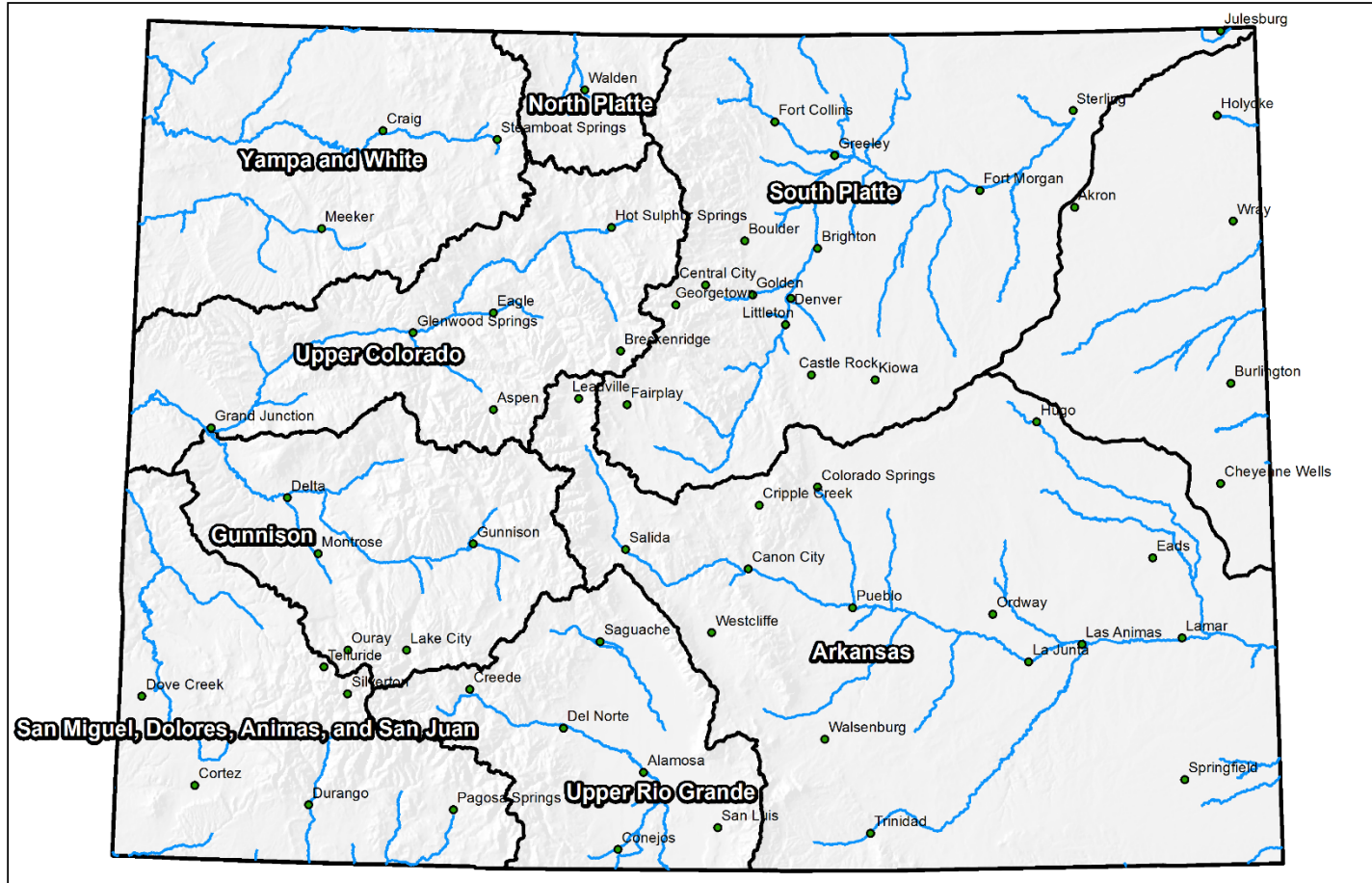


ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



Colorado Statewide Summary

Colorado Major Basins



0 25 50 100 150 200 Miles

Colorado Statewide High/Low Monthly Precipitation Summary

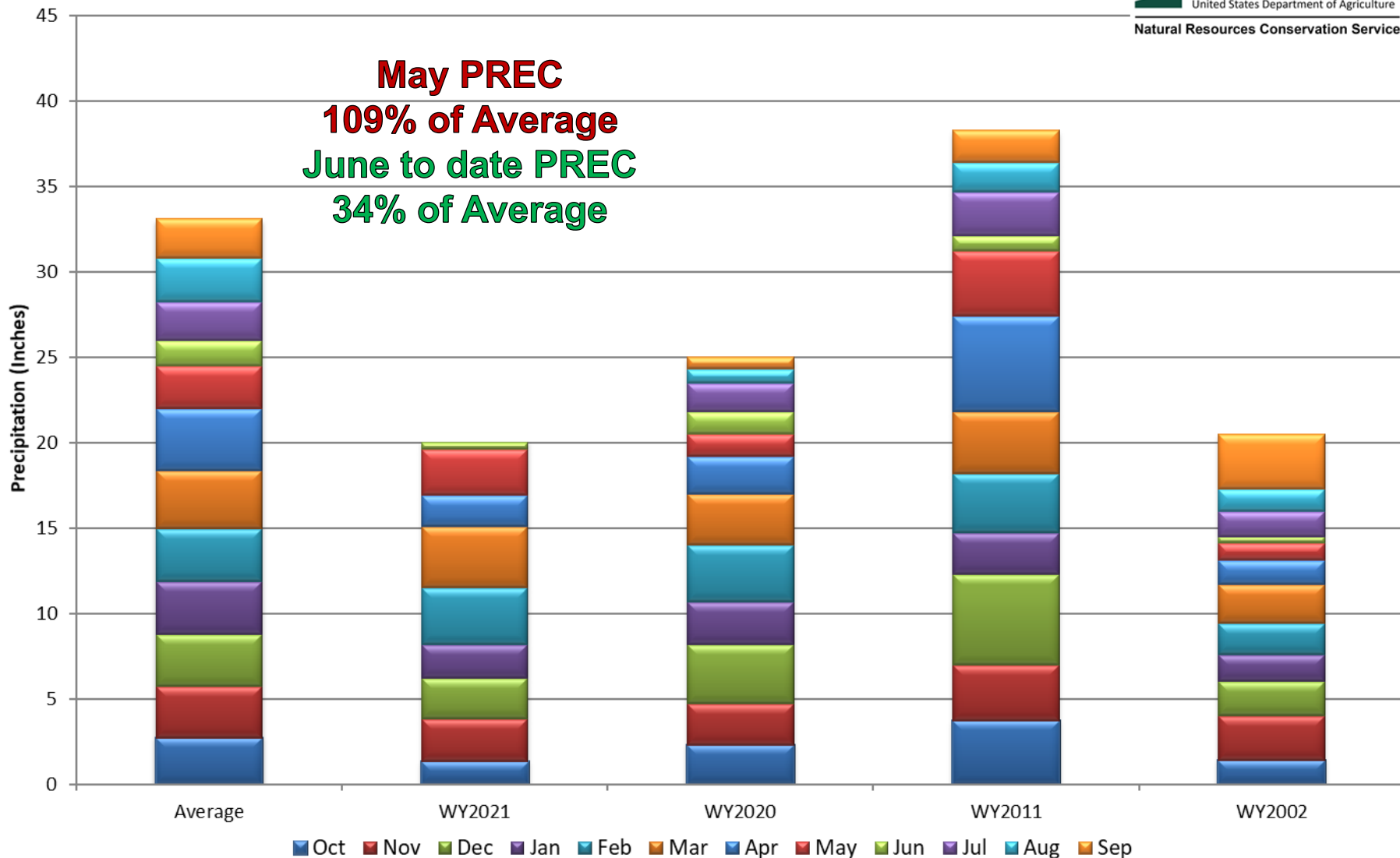
Based on Provisional SNOTEL data as of Jun 23, 2021



United States Department of Agriculture

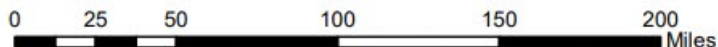
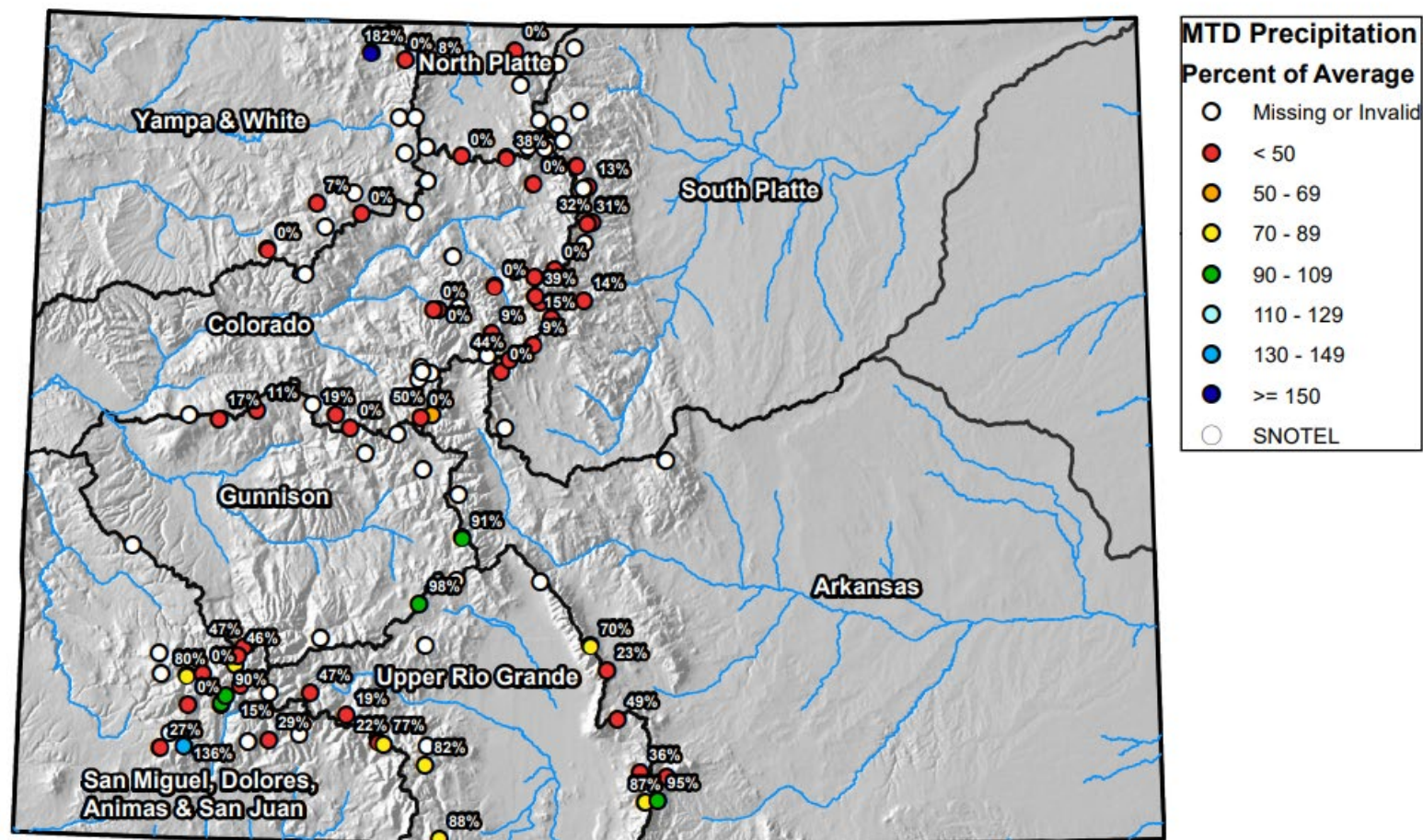
Natural Resources Conservation Service

May PREC
109% of Average
June to date PREC
34% of Average



Colorado SNOTEL Month-to-Date Precipitation

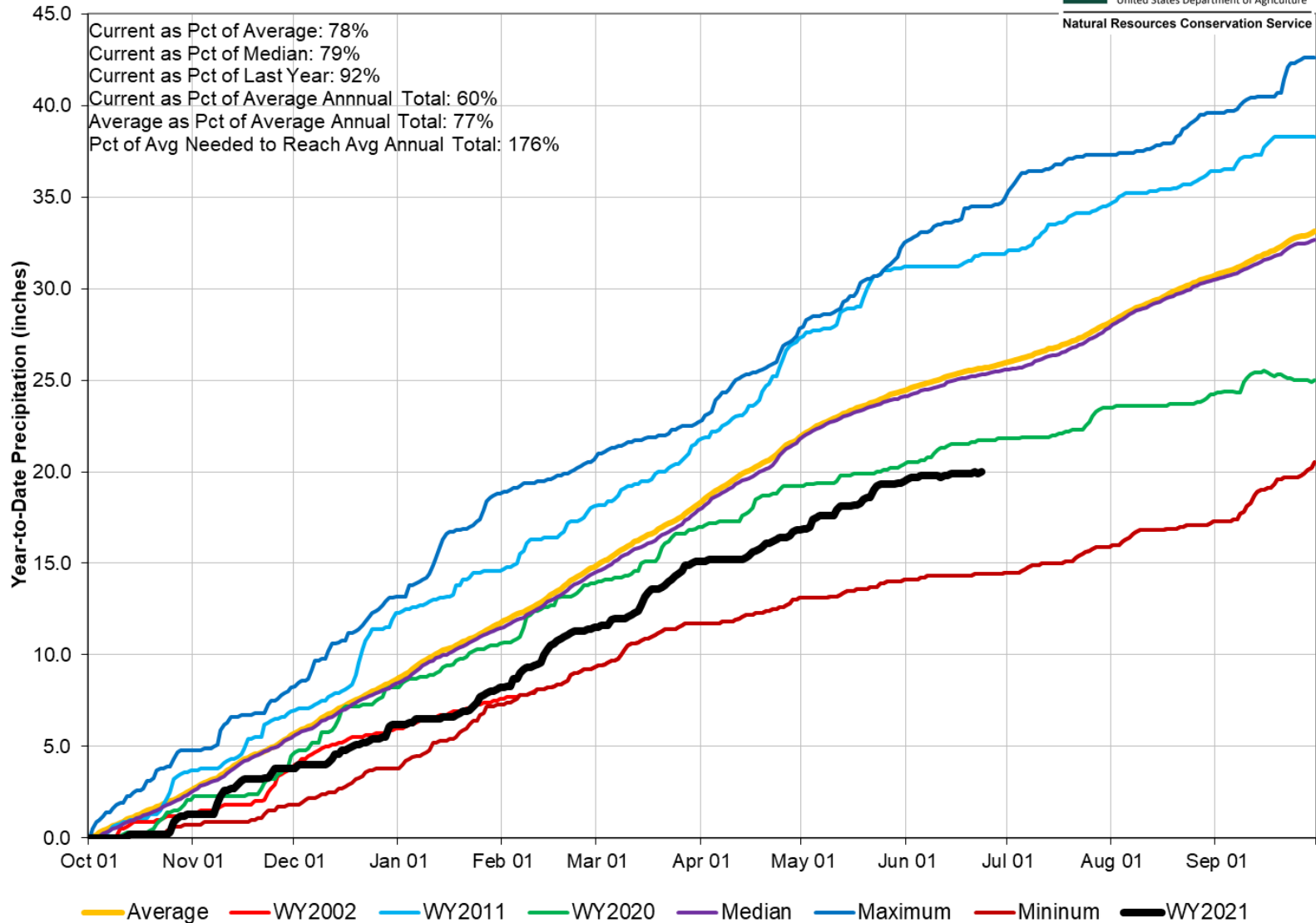
Current as of Jun 23, 2021



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

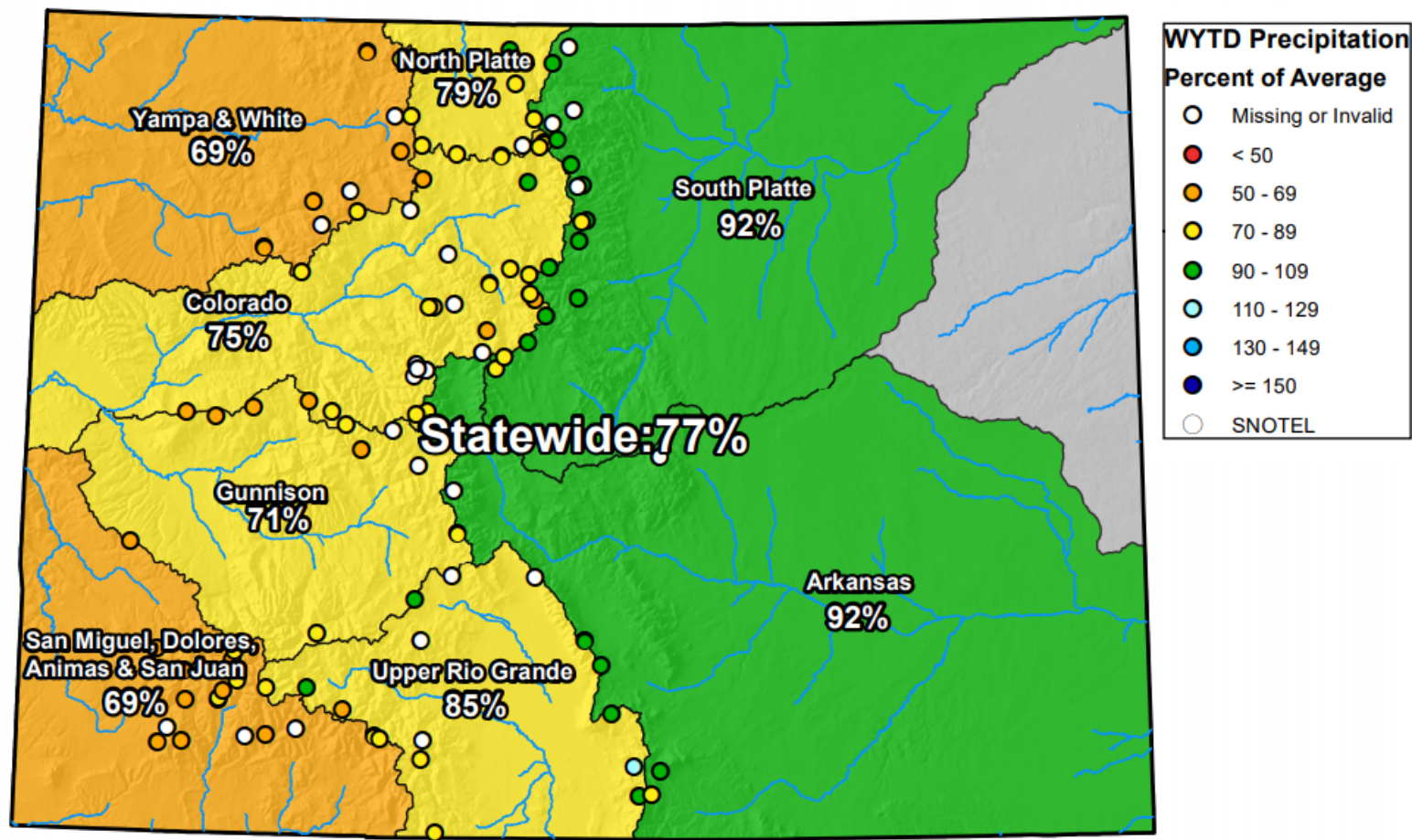
Based on Provisional SNOTEL data as of Jun 23, 2021

USDA
United States Department of Agriculture
Natural Resources Conservation Service



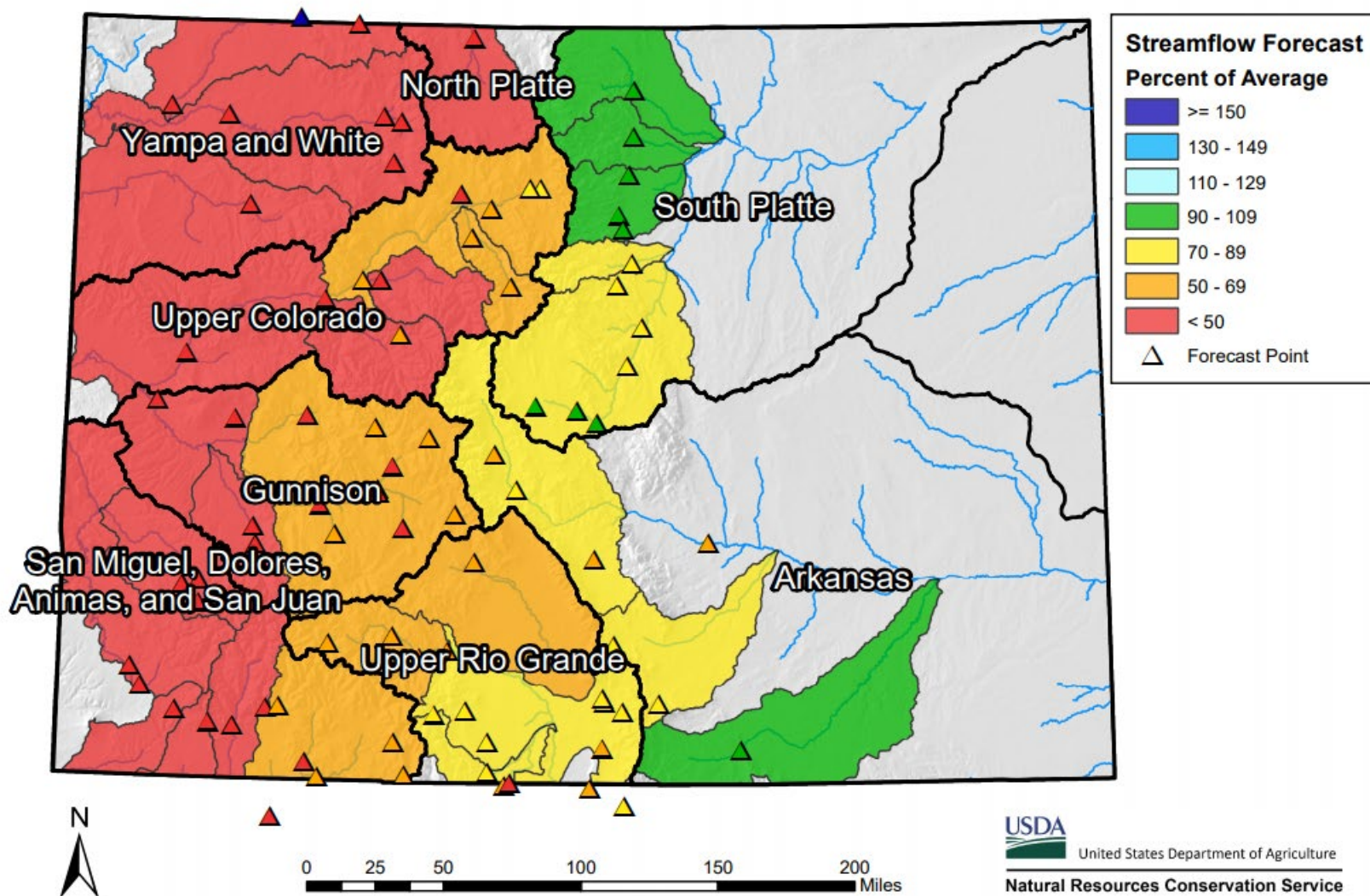
Colorado SNOTEL Water Year to Date Precipitation

Current as of Jun 23, 2021



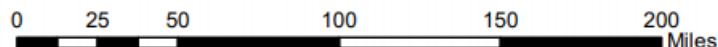
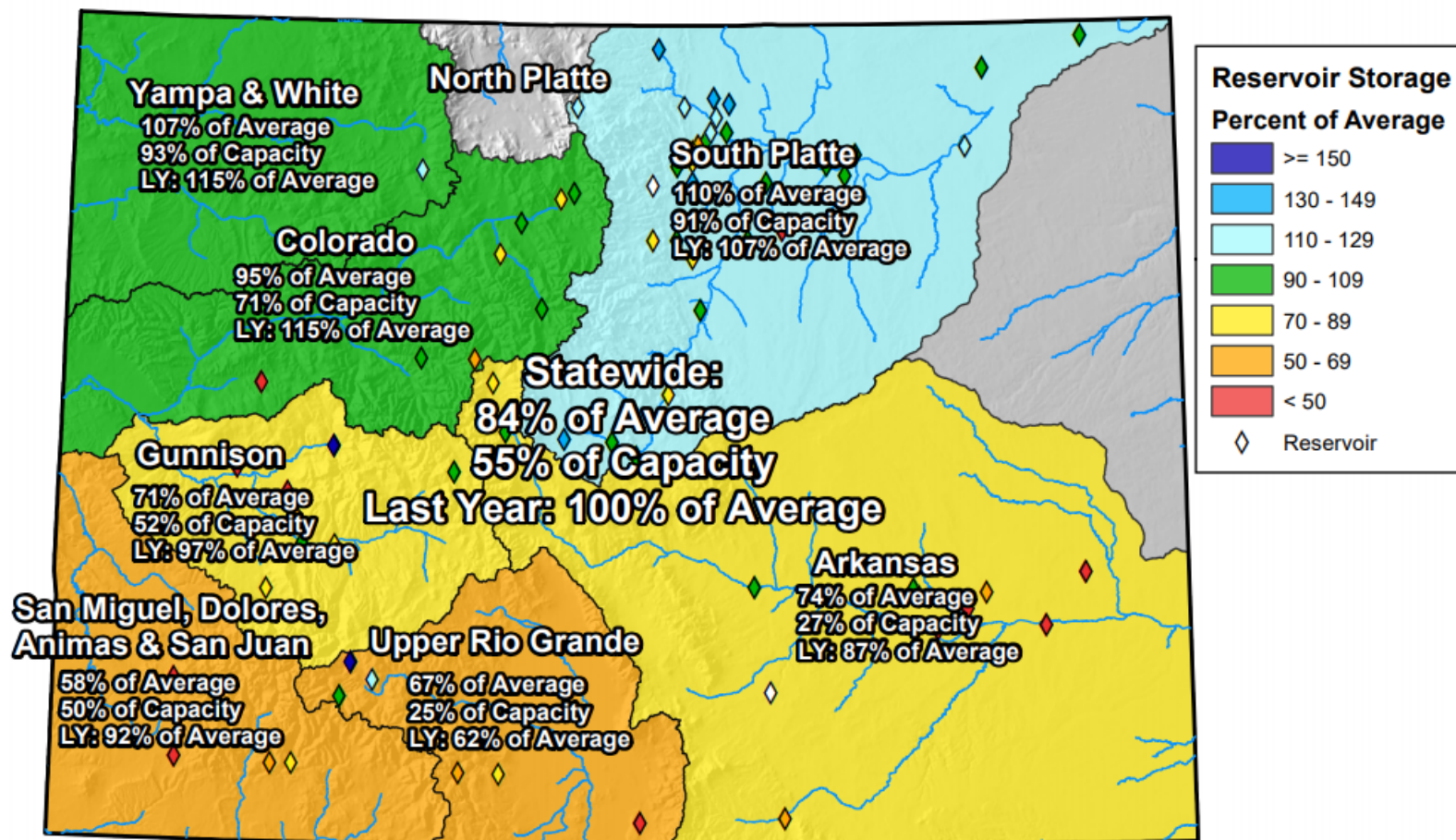
0 25 50 100 150 200 Miles

Colorado Streamflow Forecasts Summary June 1, 2021



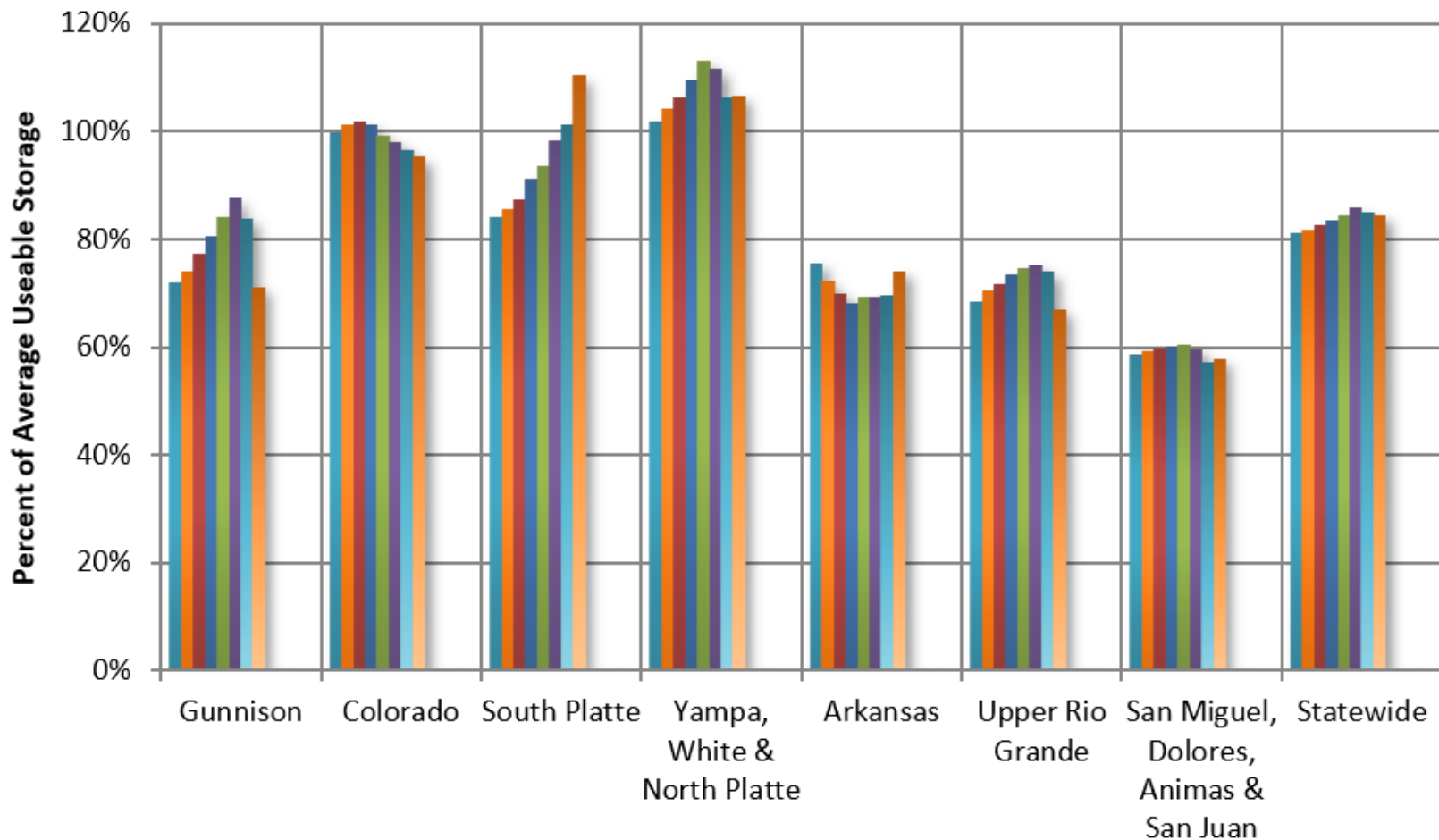
Colorado Monthly Reservoir Storage Summary

End of May 2021

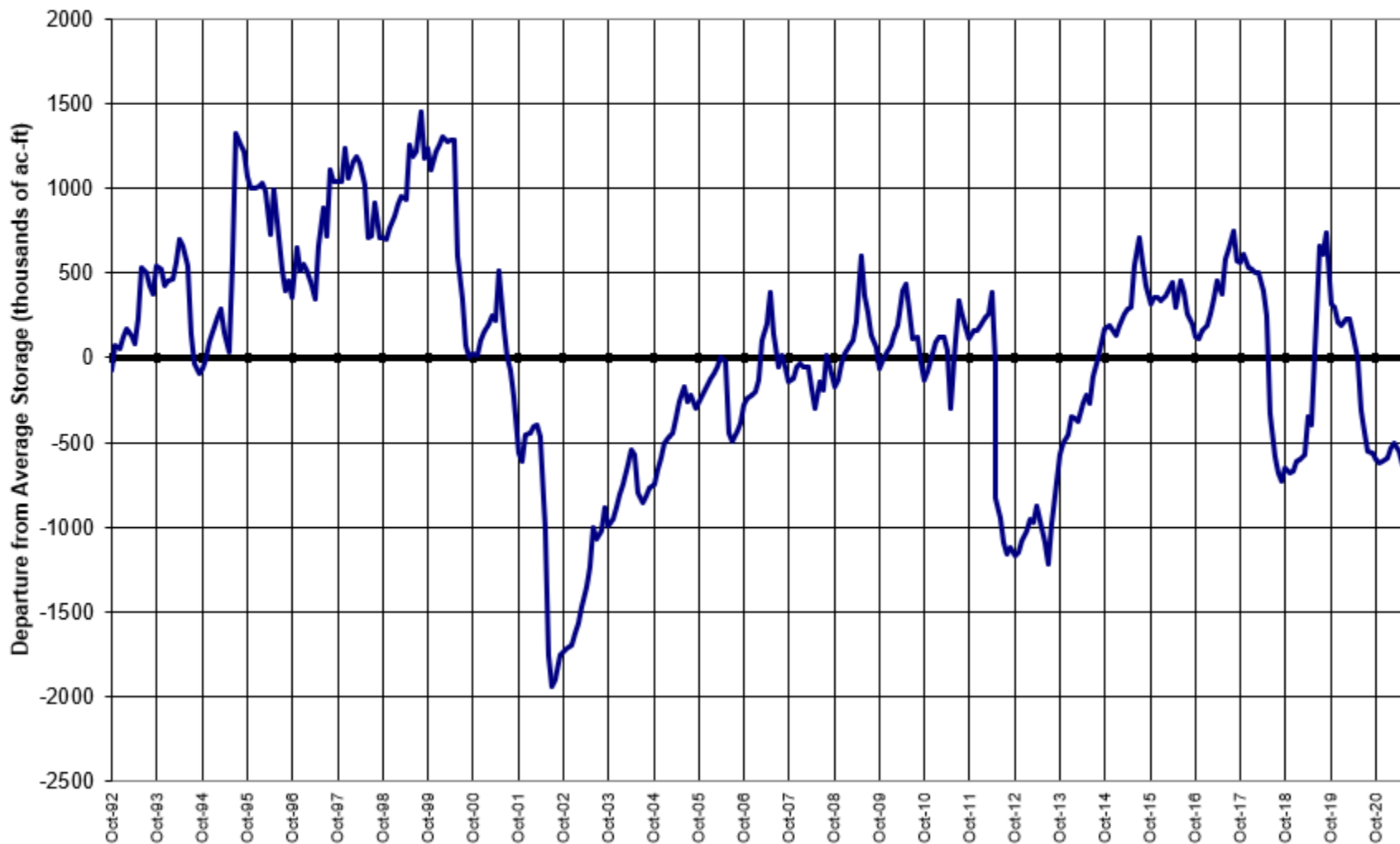


Colorado Reservoir Storage

Oct-20 Nov-20 Dec-20 Jan-21 Feb-21 Mar-21
 Apr-21 May-21 Jun-21 Jul-21 Aug-21 Sep-21



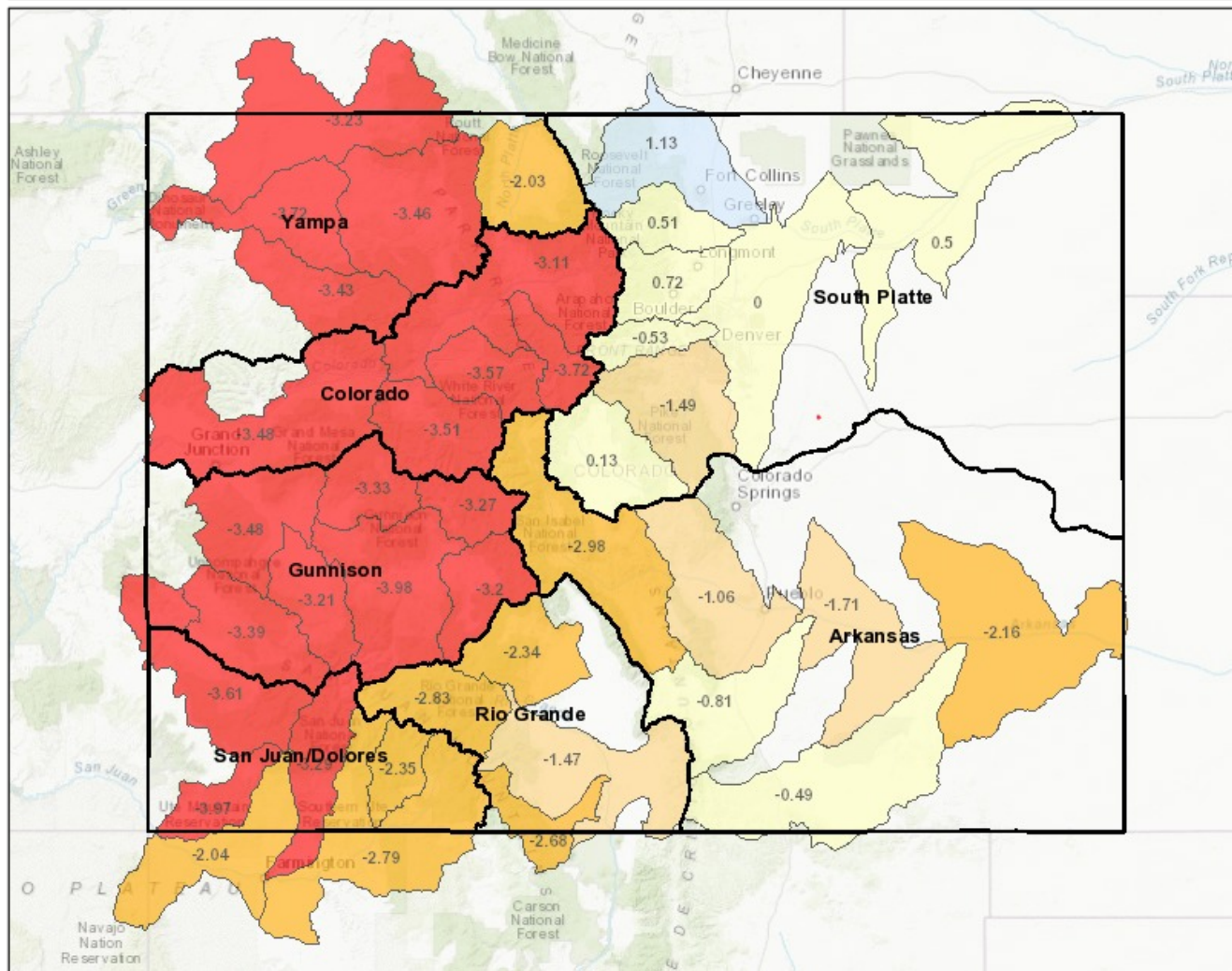
COLORADO STATEWIDE Reservoir Storage Departure from Average





COLORADO
Division of Water Resources
Department of Natural Resources

SWSI June 1, 2021



Legend

SWSI - Current Report

- ☐ SWSI Not Applicable (-99.99)
- ☒ Extremely Dry (-3.0 to -4.2)
- ☒ Moderately Dry (-2.0 to -2.9)
- ☒ Slightly Dry (-1.0 to -1.9)
- ☒ Near Average (-0.9 to 0.9)
- ☒ Slightly Wet (1.0 to 1.9)
- ☒ Moderately Wet (2.0 to 2.9)
- ☒ Extremely Wet (3.0 to 4.2)

☐ Water Division

Location



Notes

113.64 0 56.82 113.64 Miles

1: 3,600,000



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Date Prepared: 6/18/2021 4:24:10 AM



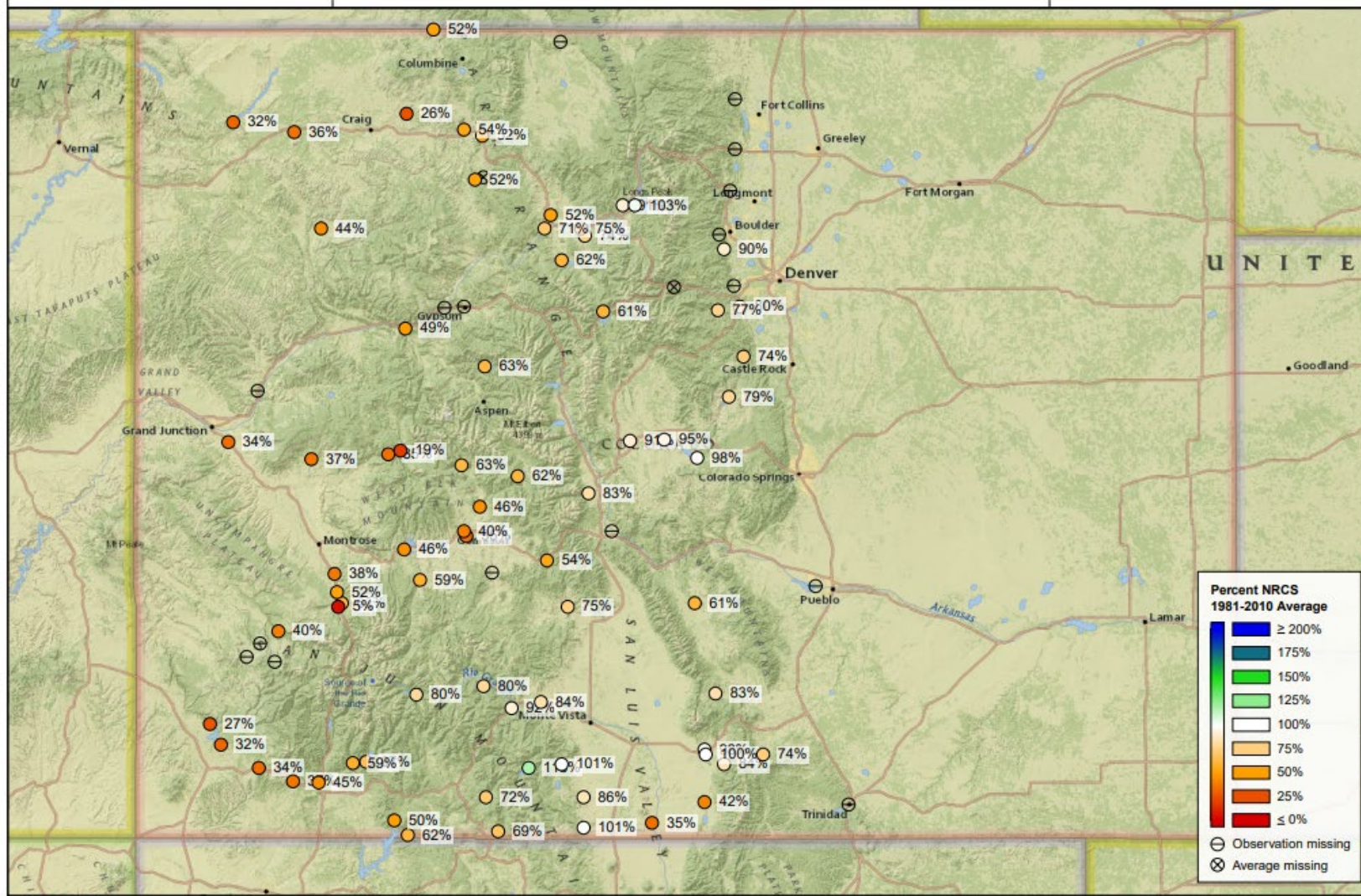
United States Department of Agriculture

Colorado Snow Surveys

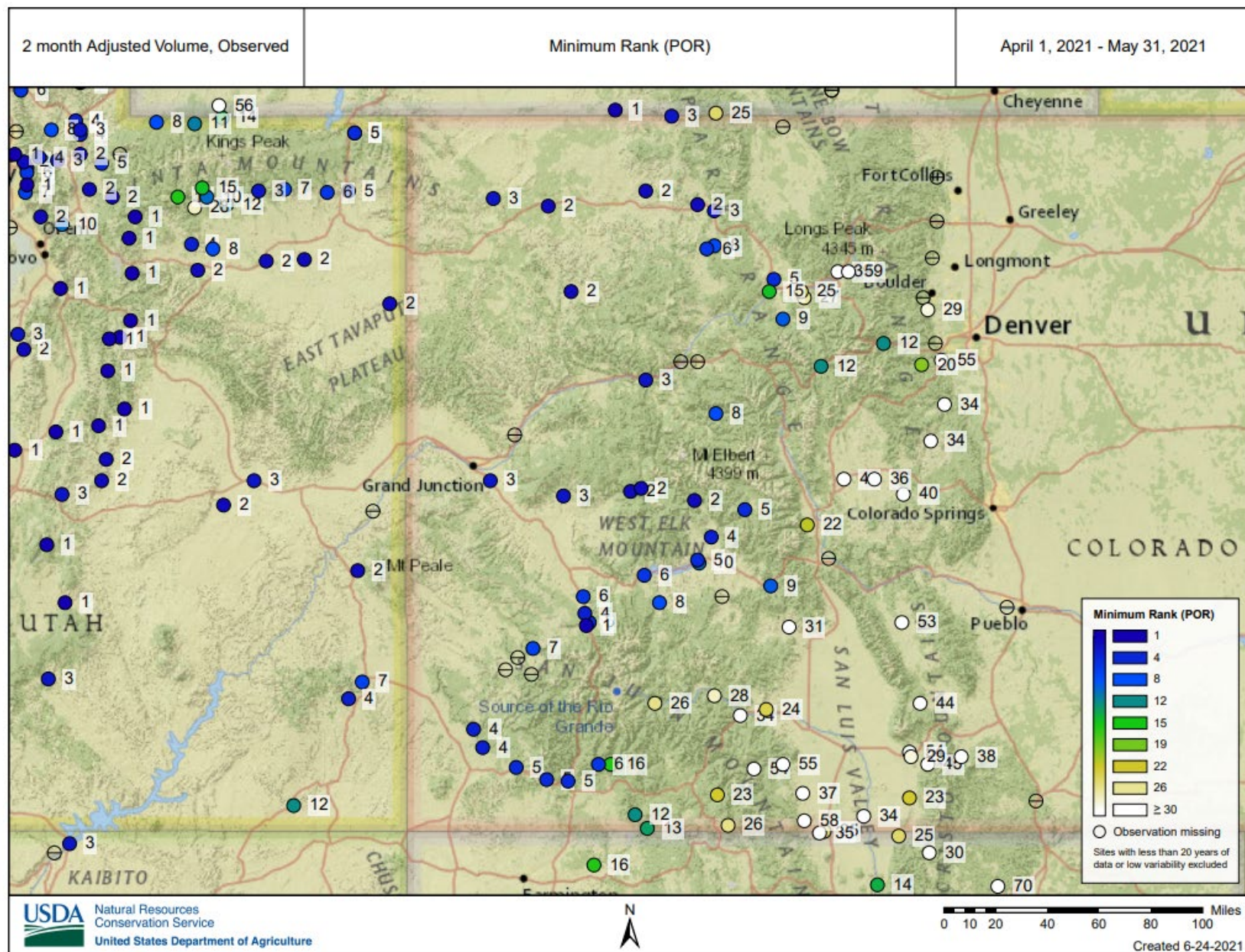
2 month Adjusted Volume, Observed

Percent NRCS 1981-2010 Average

April 1, 2021 - May 31, 2021



Colorado Snow Surveys



Summary

- All SNOTEL sites in Colorado are now free of snow
- June has reverted back to dry conditions across the state with statewide month to date mountain precipitation being just 34 percent of average
- Low observed April-May streamflows led to further drops in streamflow forecasts for the full April-July forecast period across the Western Slope
 - Only the South Platte basin showed a considerable increase from May to June
- Nearly half of the streamflow forecast points in the state were in the bottom 20th percentile of observed April-May streamflows
- Statewide reservoir storage is 84 percent of average but with the southern basins holding lower amounts of storage.



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

June 24th, 2021

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

Hydrologist

Asst. Snow Survey Supervisor

720-544-2852

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



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