



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

March 19th, 2019

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos

Hydrologist

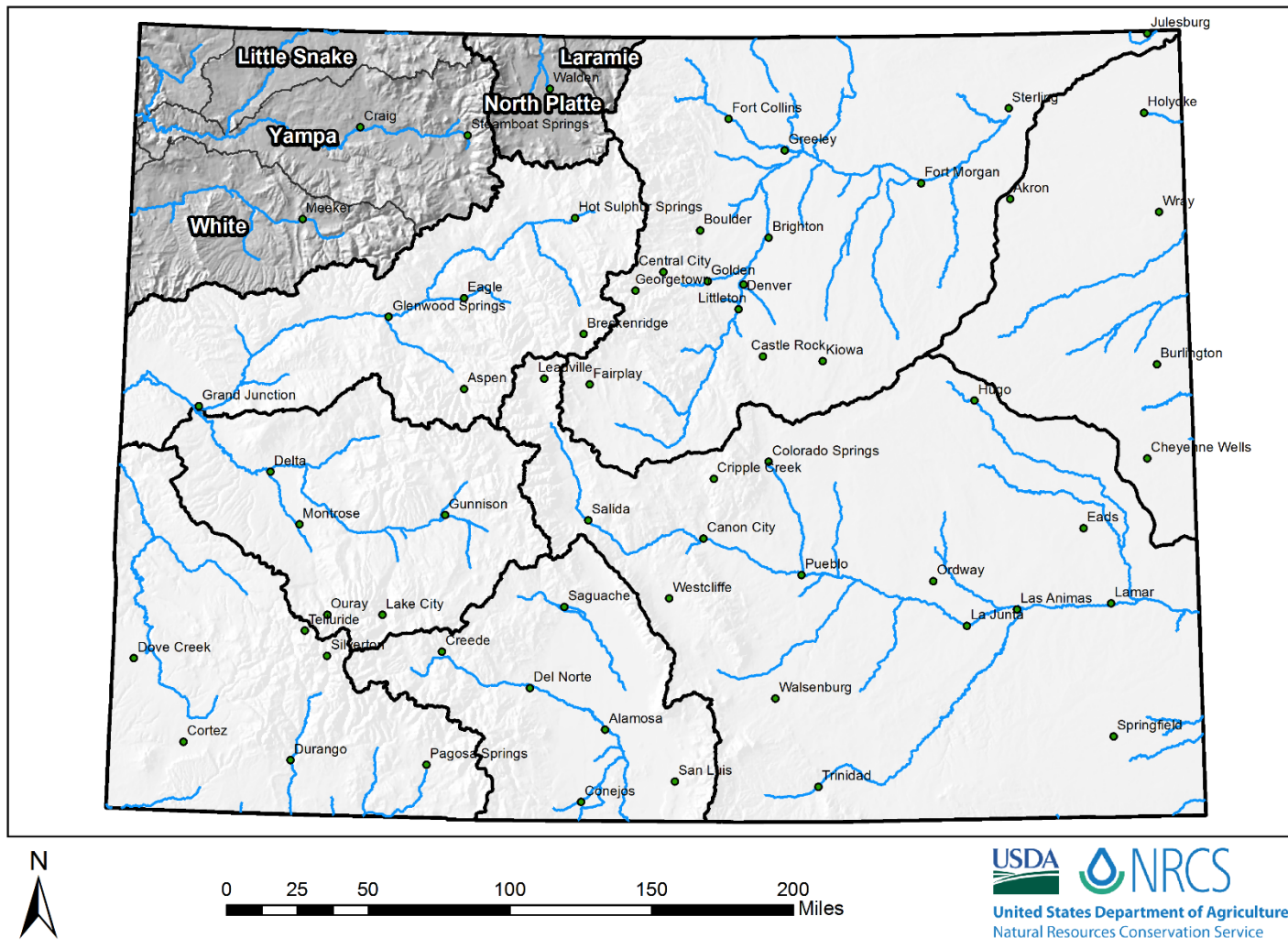
Snow Survey Supervisor

720-544-2852

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

Major Basin Summary

Yampa, White, and North Platte River Basins



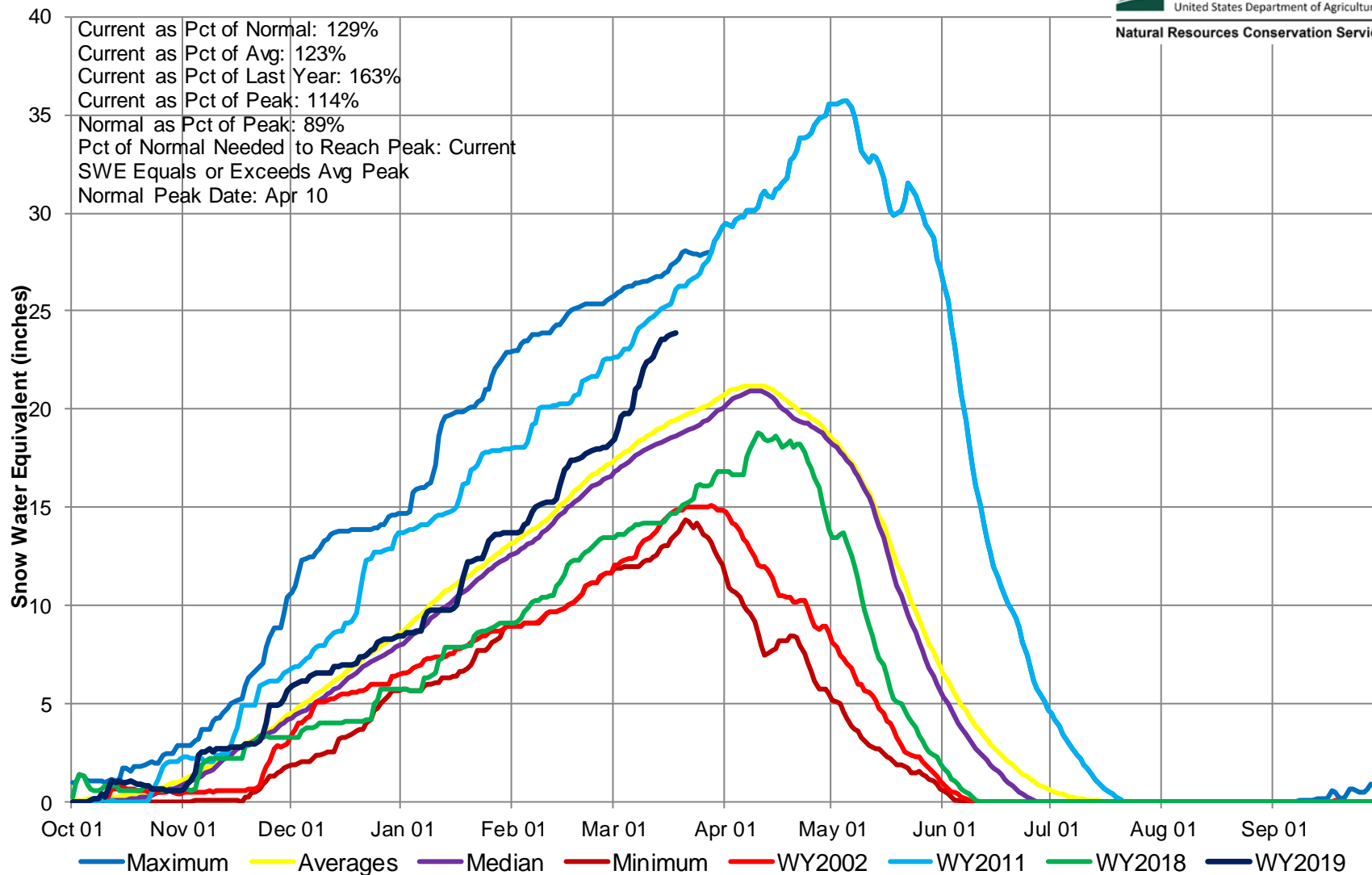
Yampa and White River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



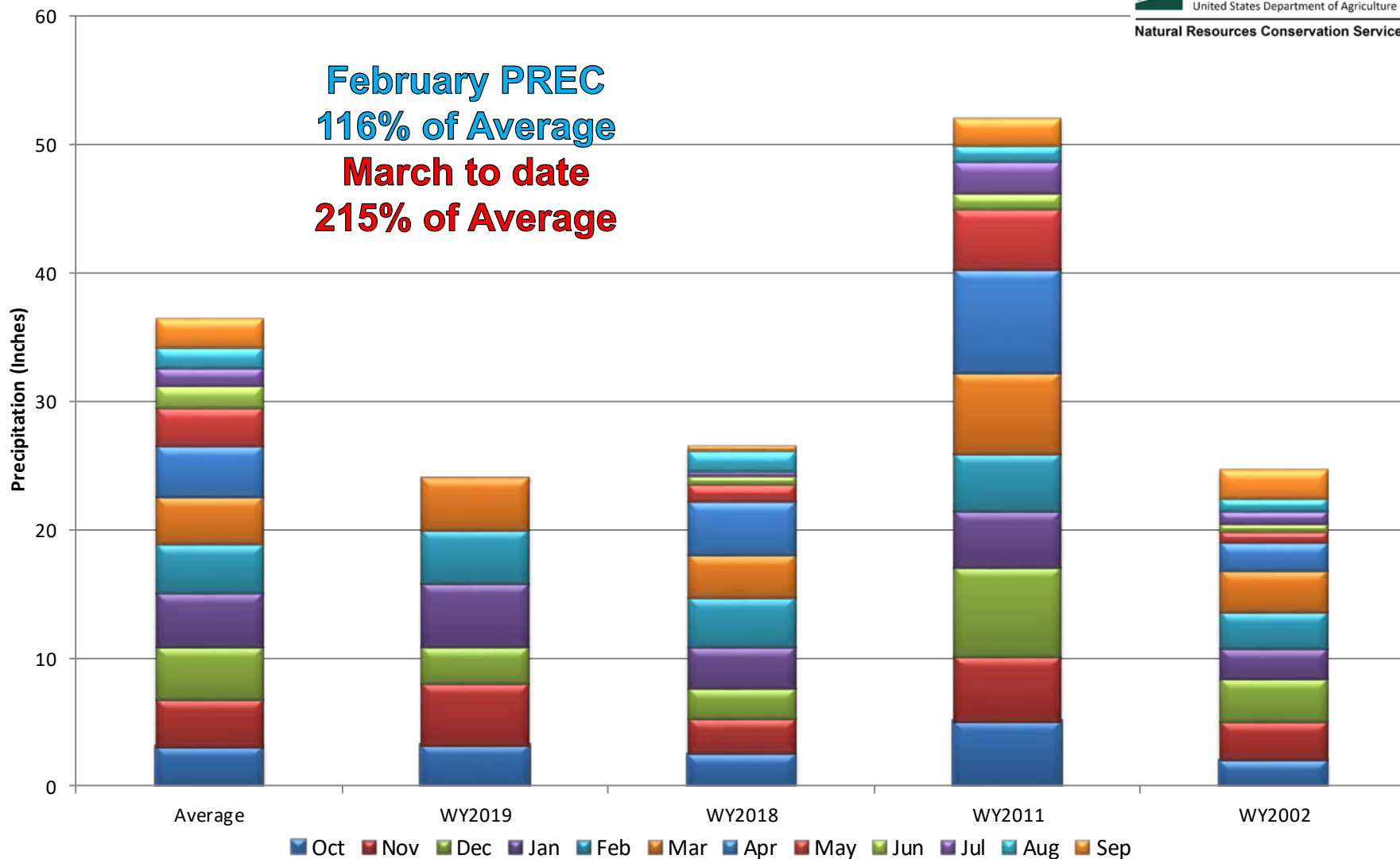
United States Department of Agriculture

Natural Resources Conservation Service

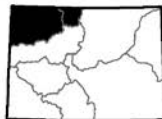
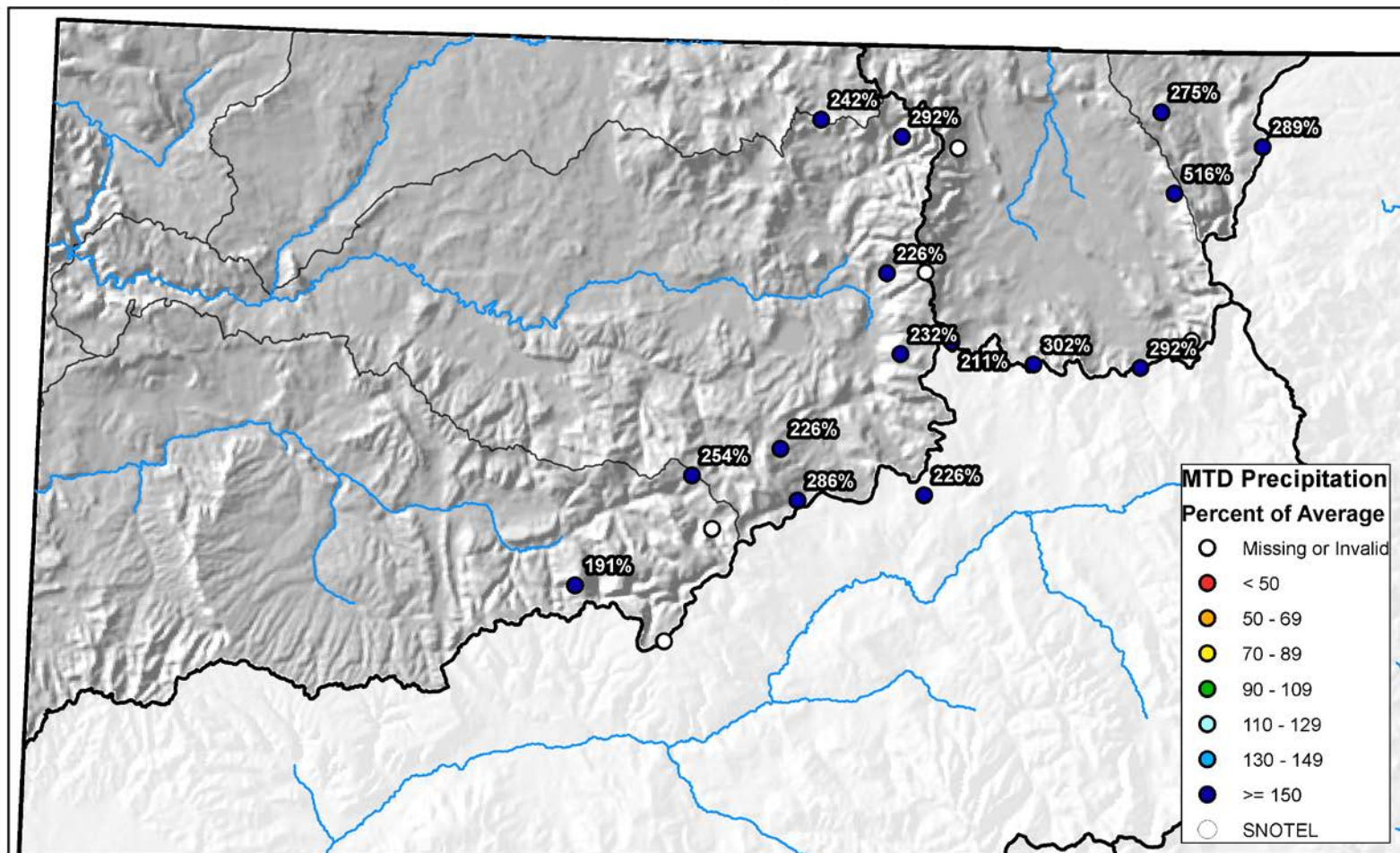


Yampa and White River Basins High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



Yampa, White, and North Platte River Basins Month to Date Precipitation Summary Current as of Mar 18, 2019

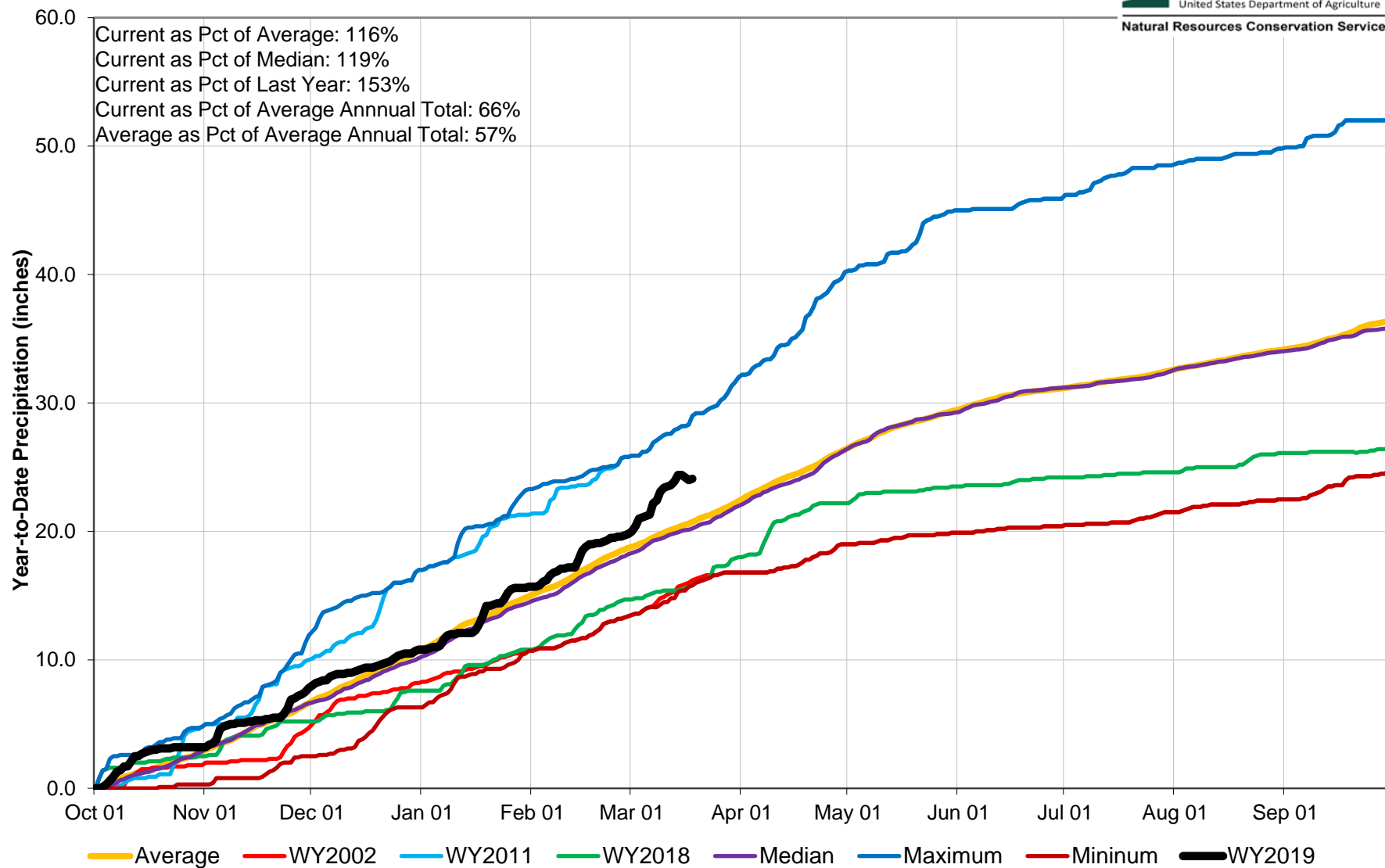


0 10 20 40 60 80 Miles

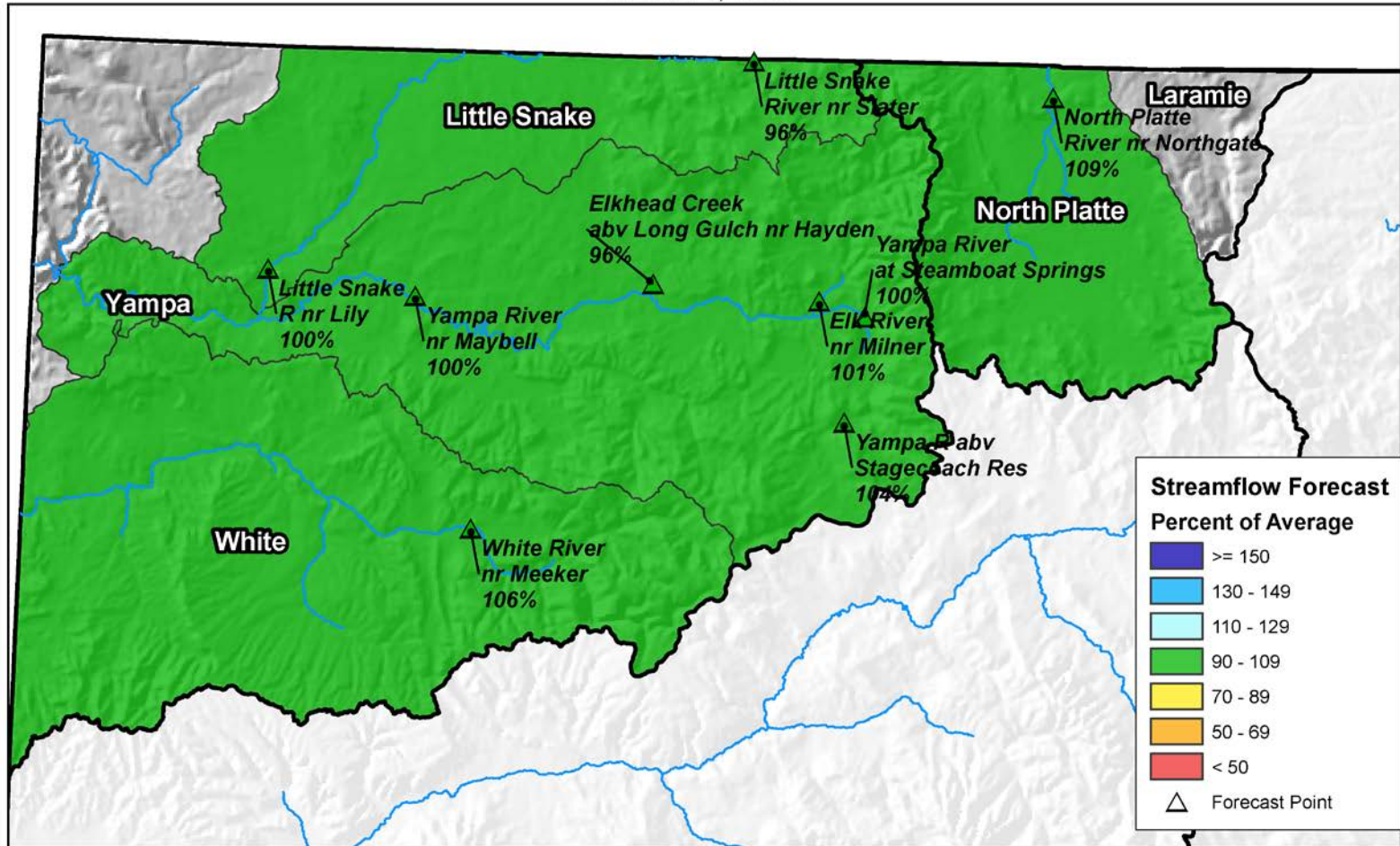


Yampa and White River Basins High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



Yampa, White, and North Platte River Basins Streamflow Forecast Summary March 1, 2019

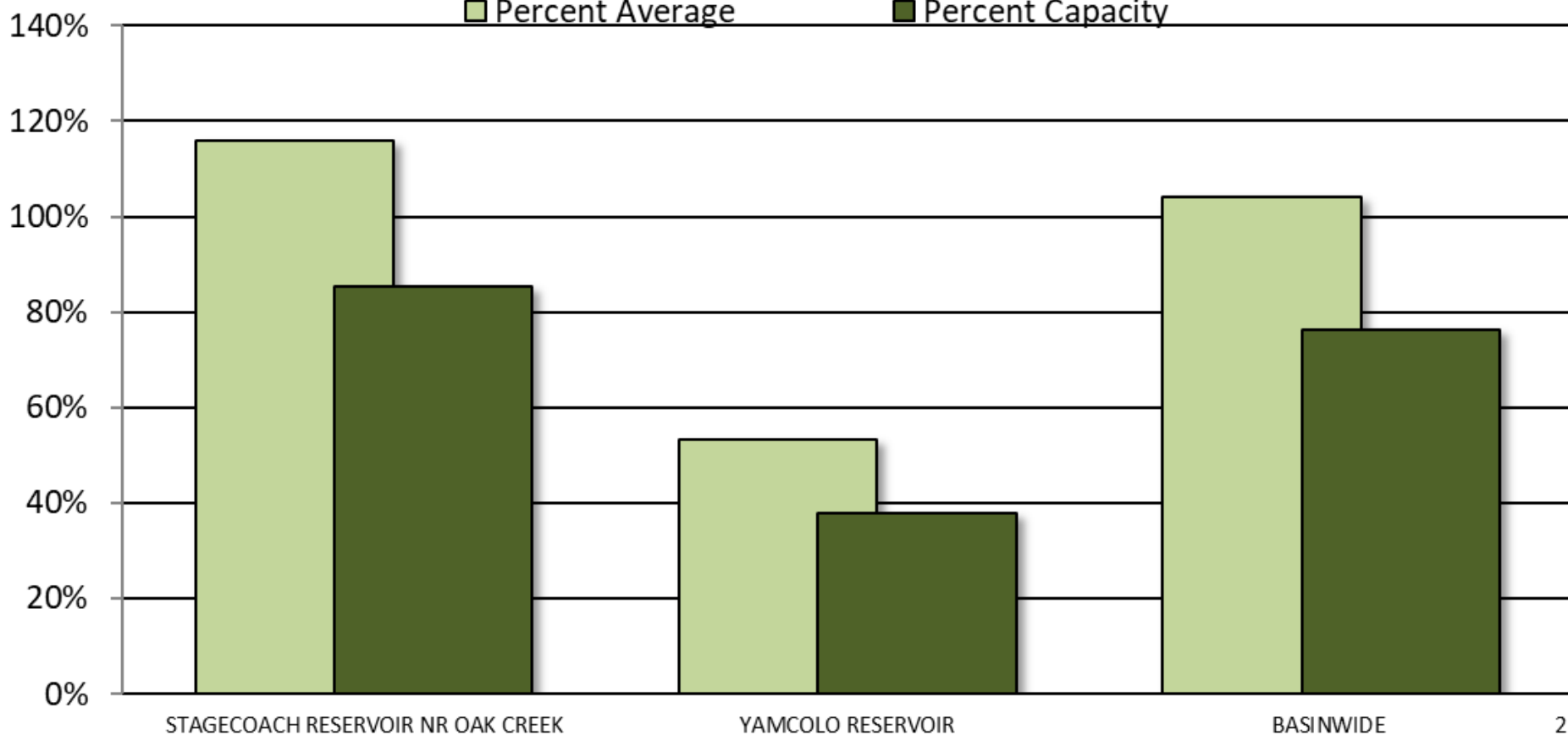


0 10 20 40 60 80 Miles

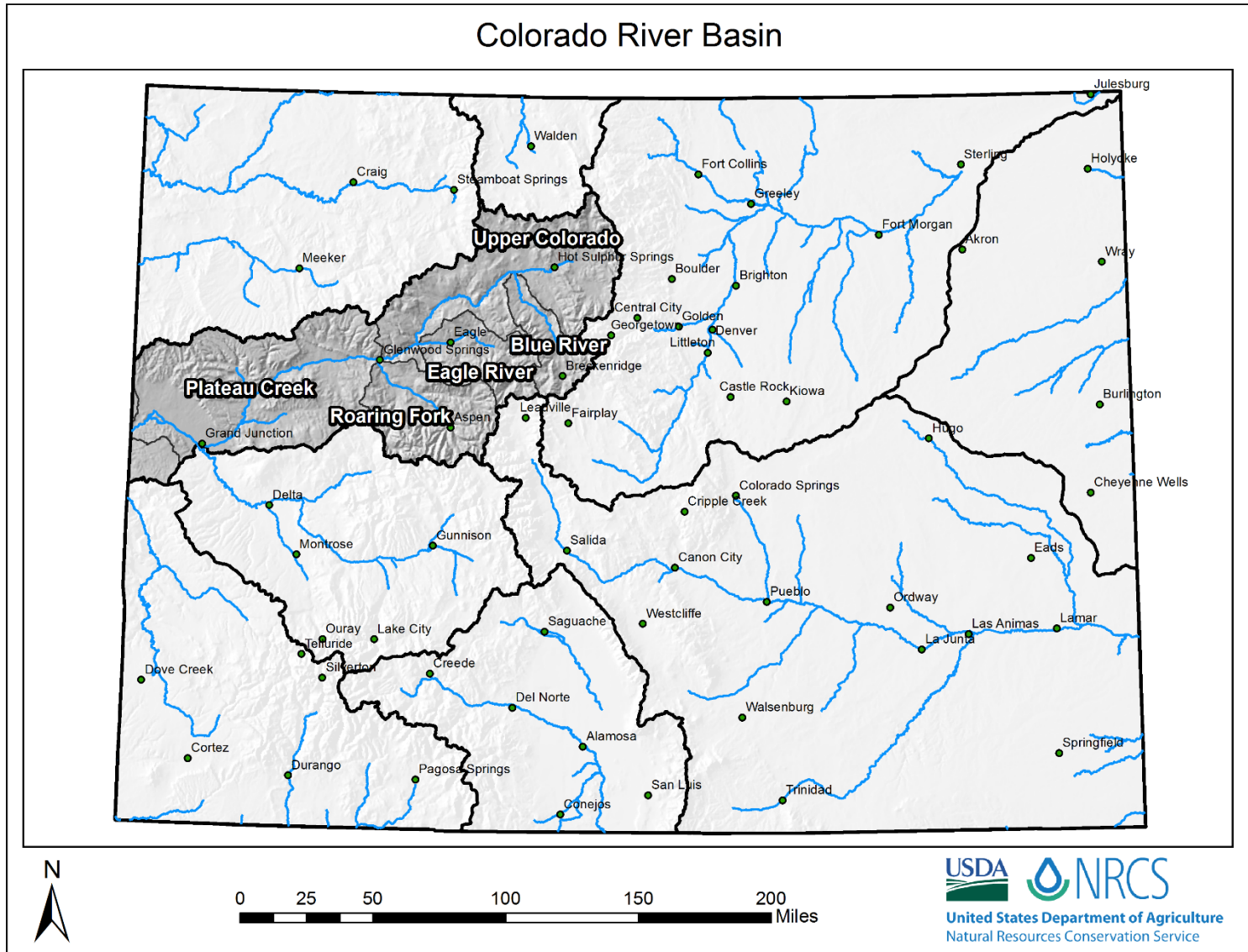
Reservoir Storage

■ Percent Average

■ Percent Capacity



Major Basin Summary





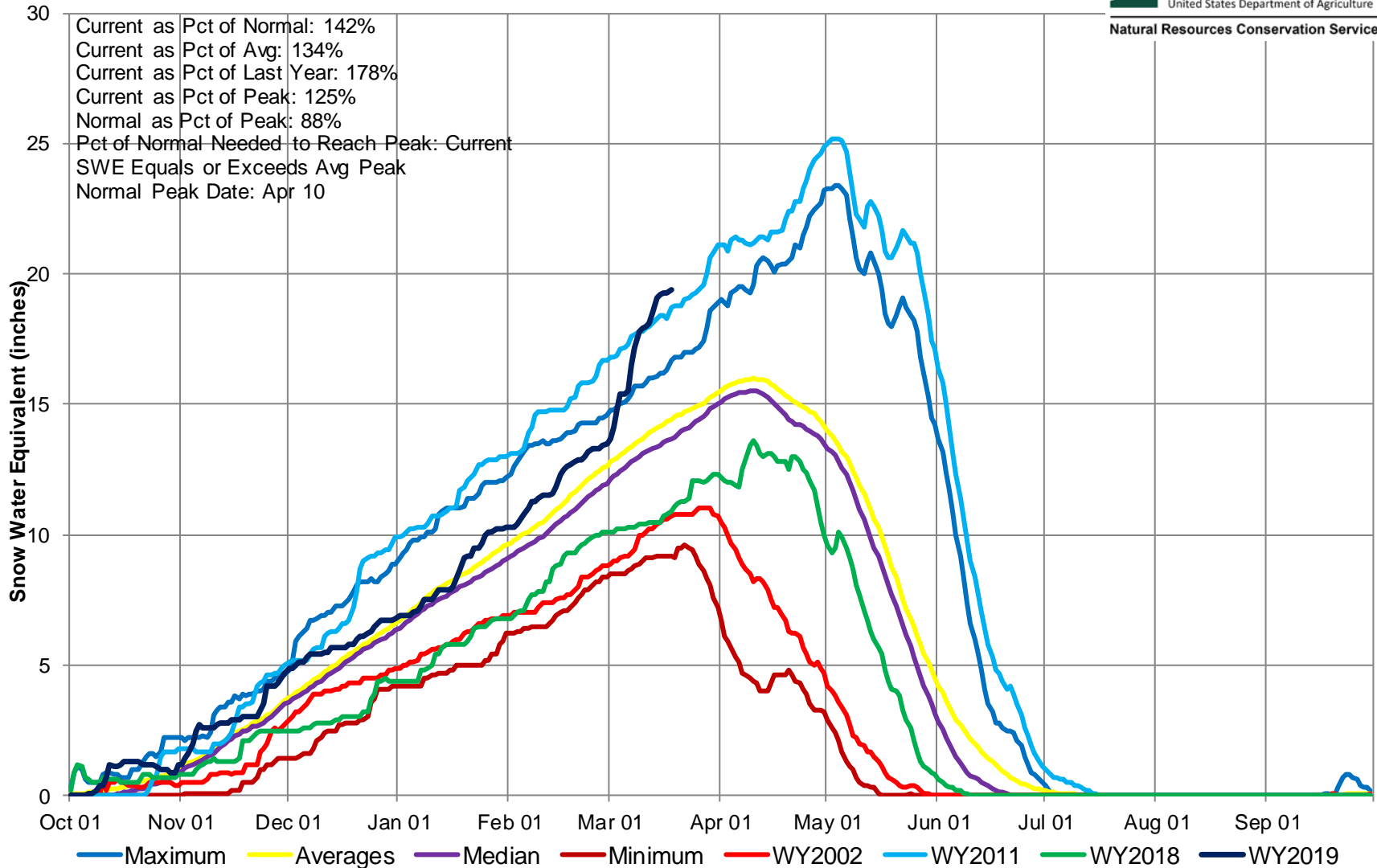
Upper Colorado River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



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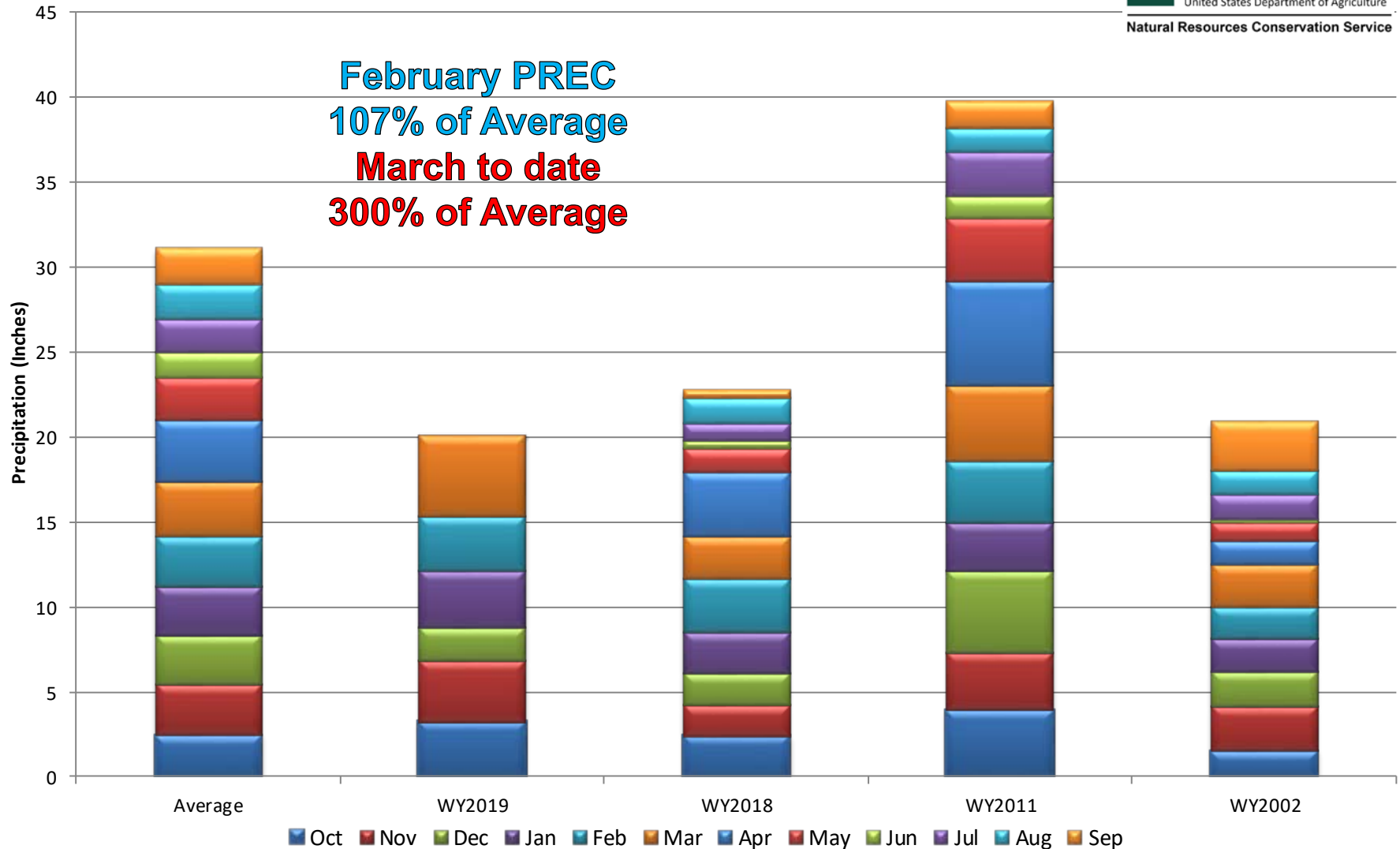
Upper Colorado River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



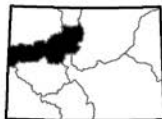
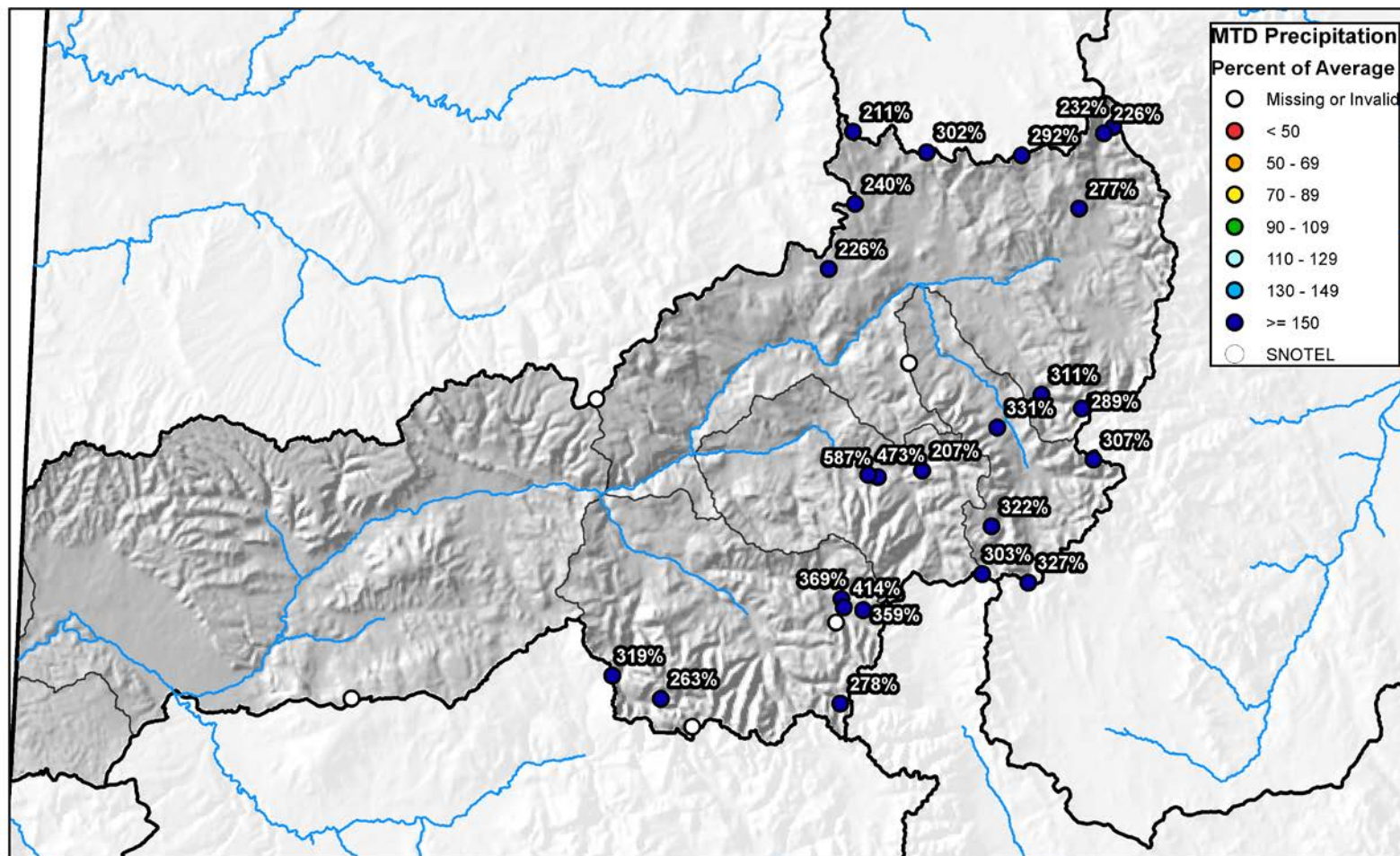
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Upper Colorado River Basin Month to Date Precipitation Summary

Current as of Mar 18, 2019

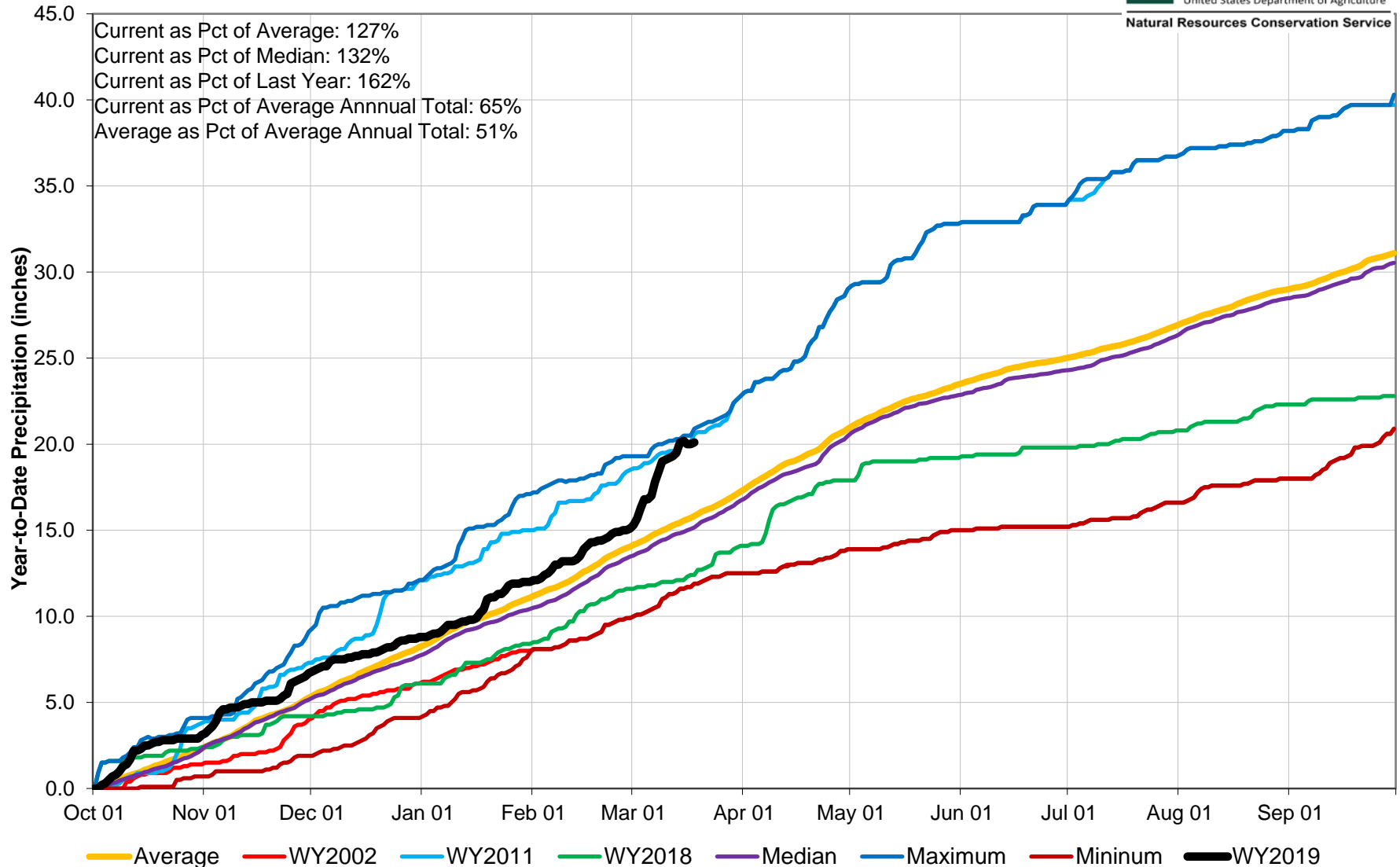


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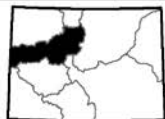
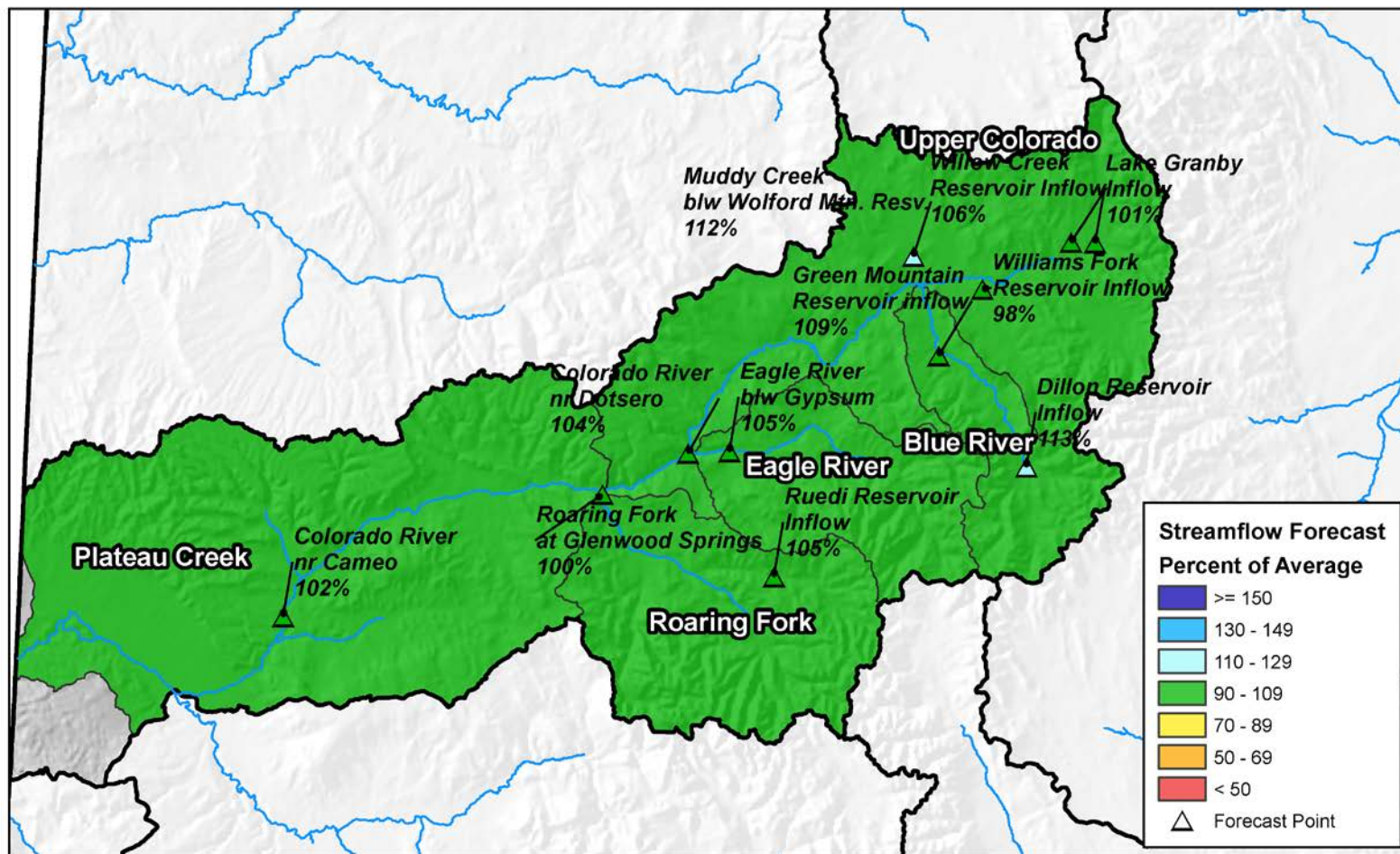
Upper Colorado River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019

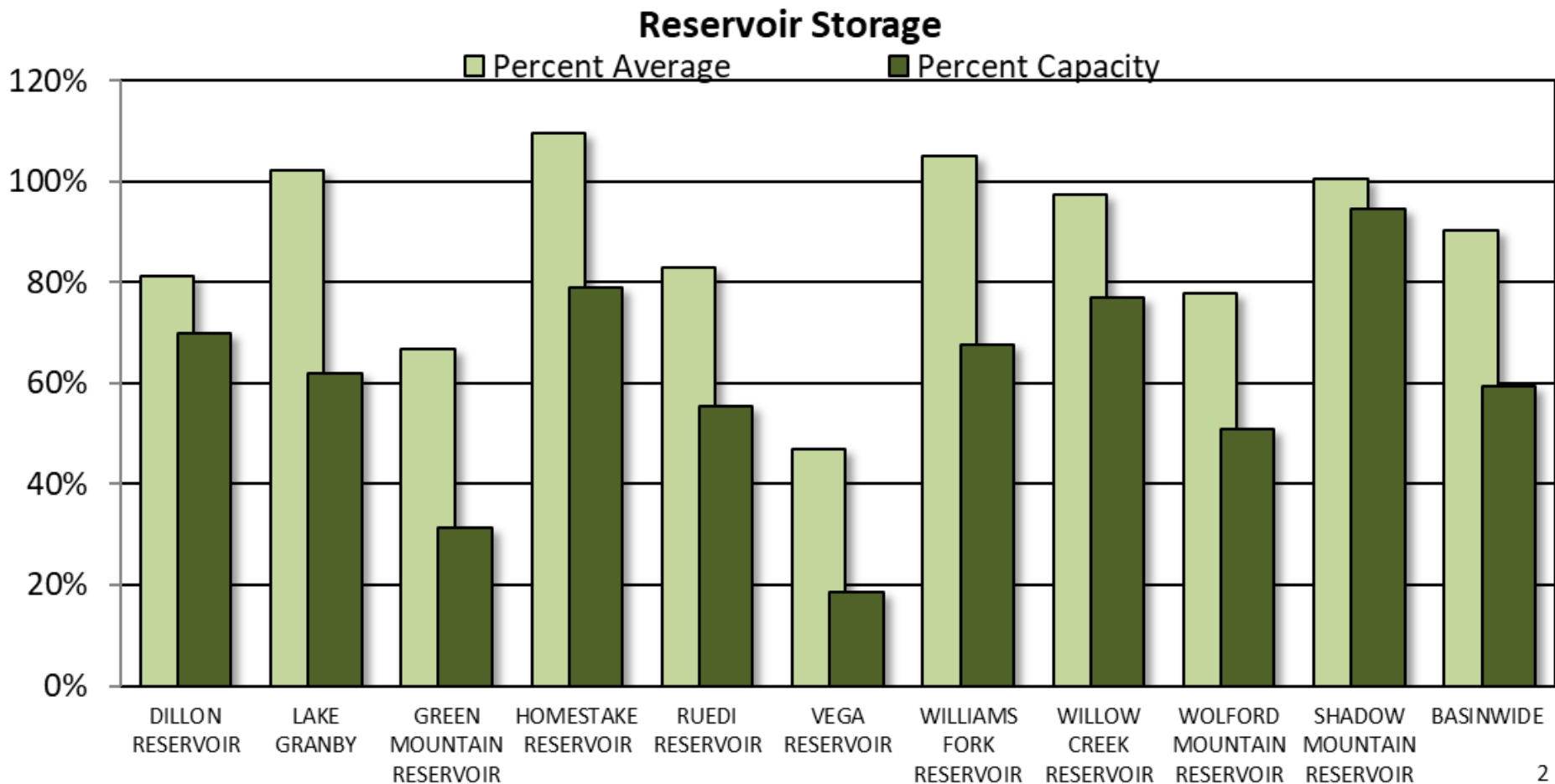


Upper Colorado River Basin Streamflow Forecast Summary

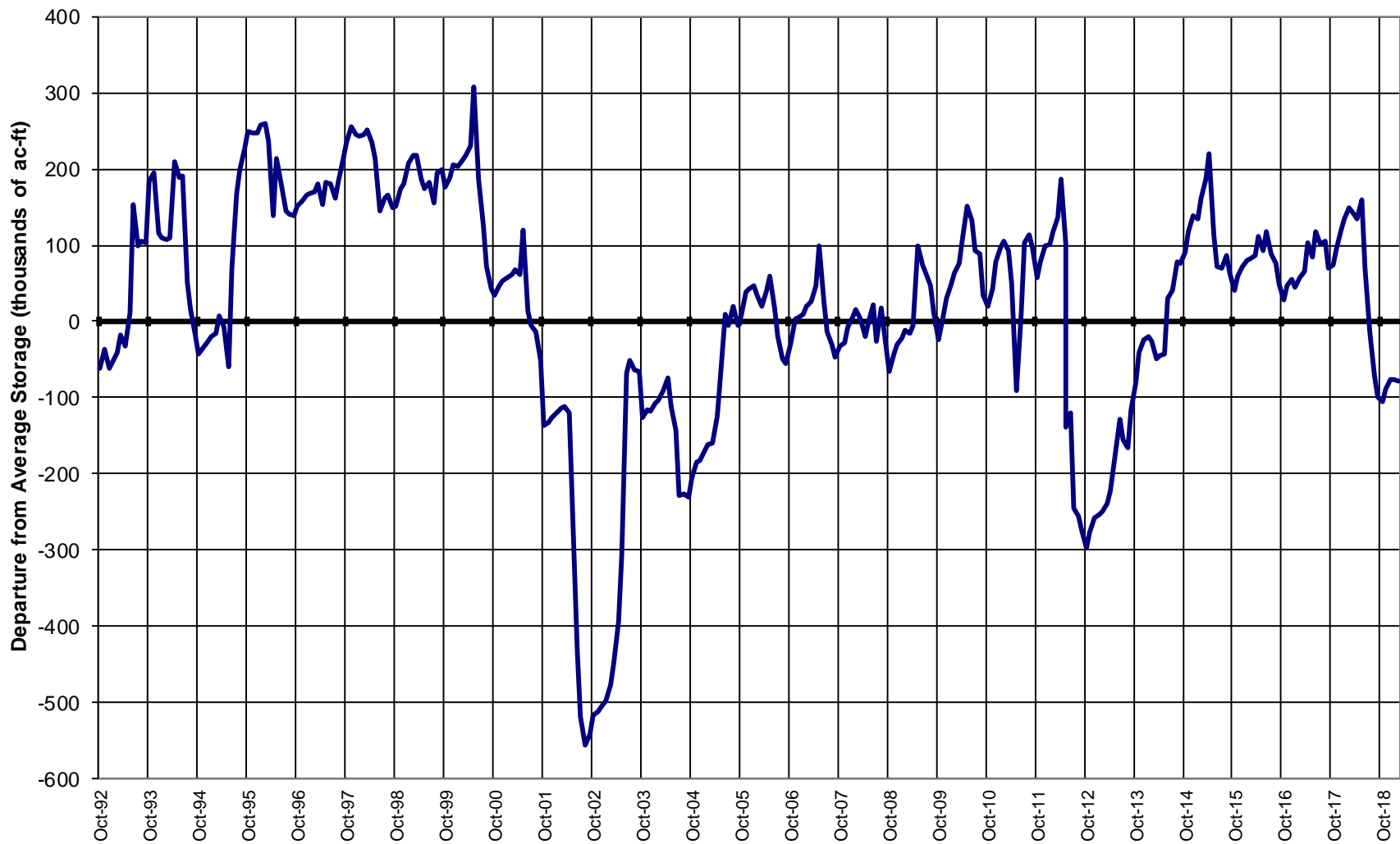
March 1, 2019



0 10 20 40 60 80 Miles

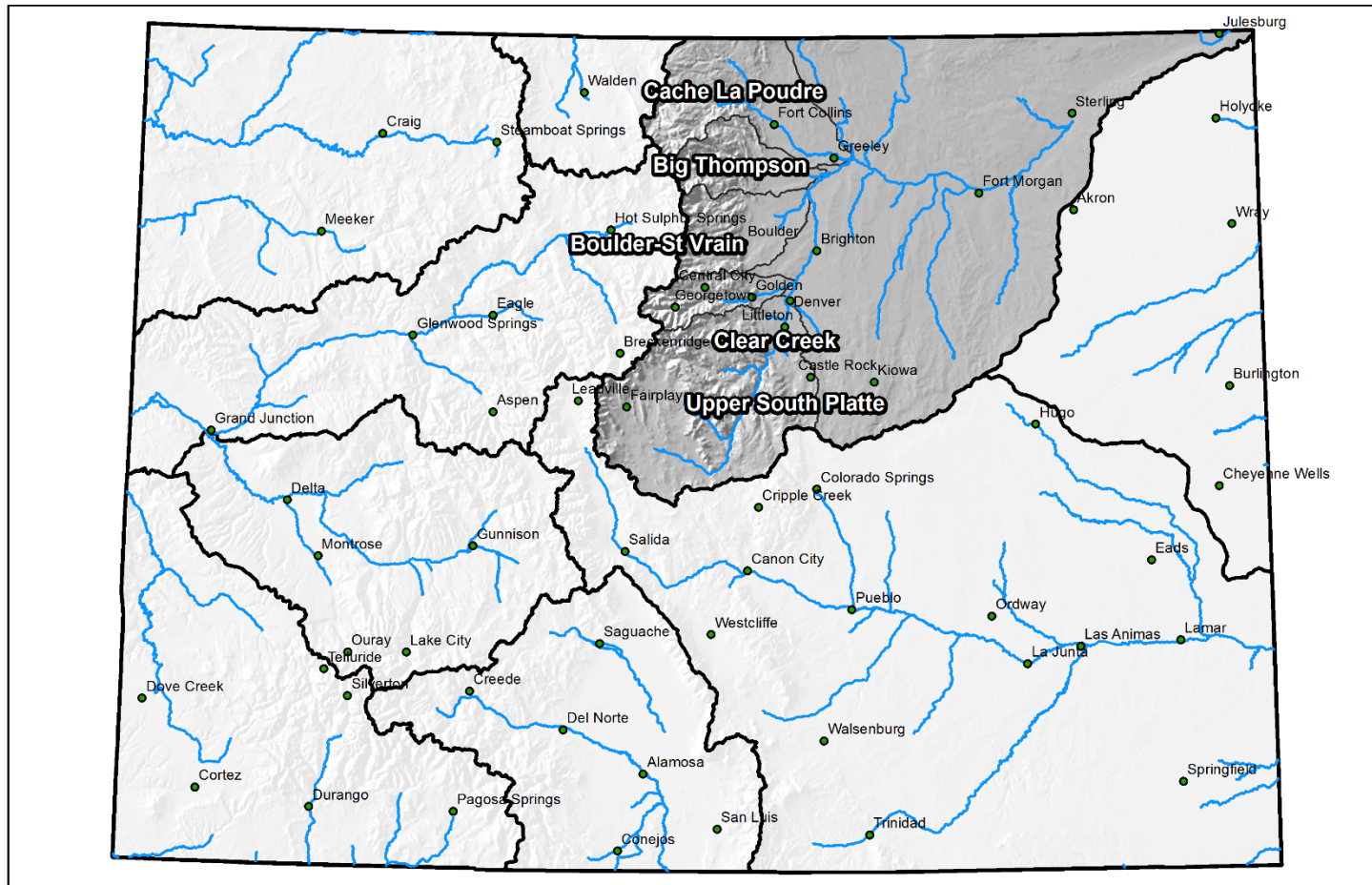


COLORADO RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

South Platte River Basin



0 25 50 100 150 200 Miles



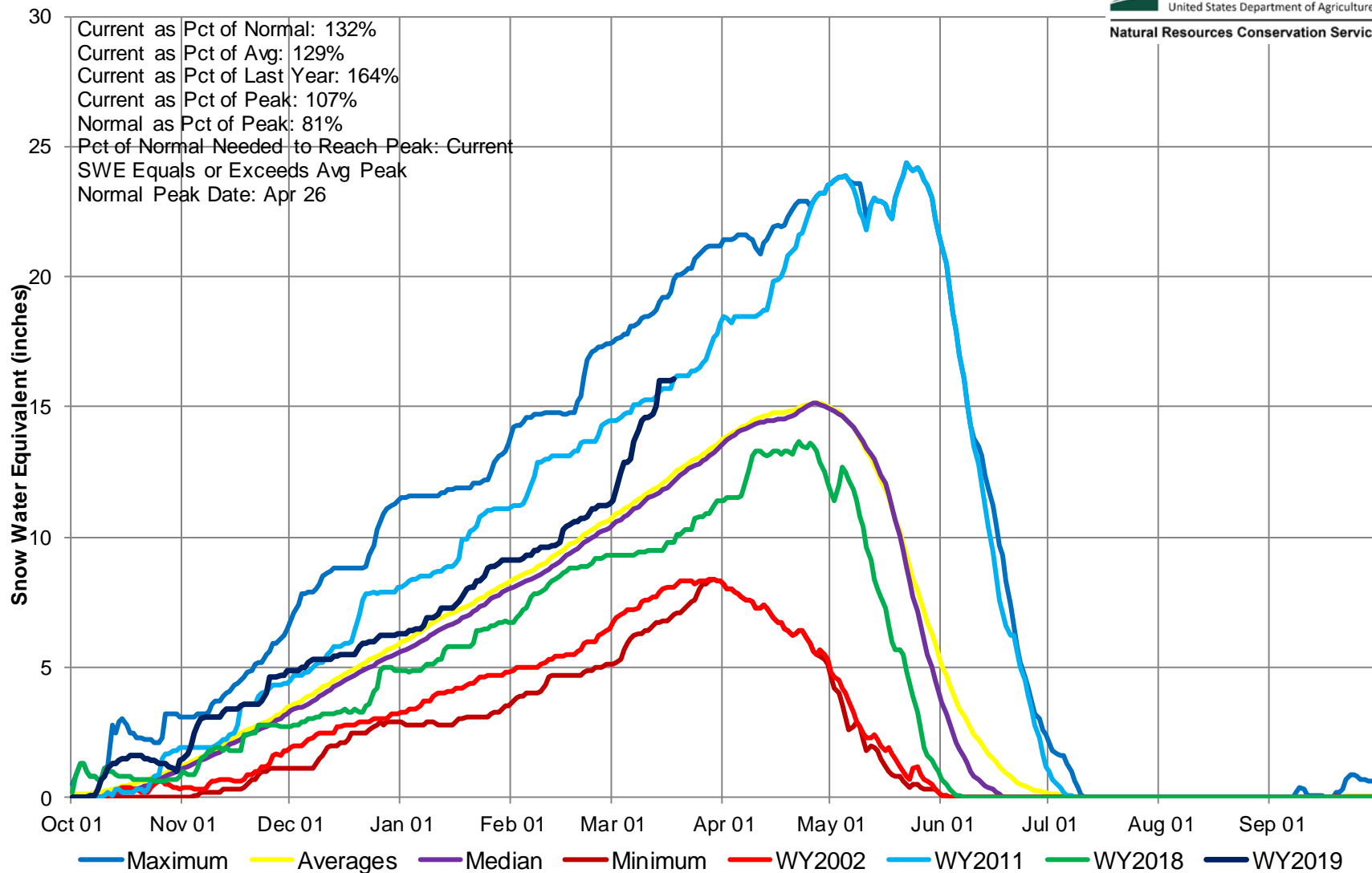
South Platte River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



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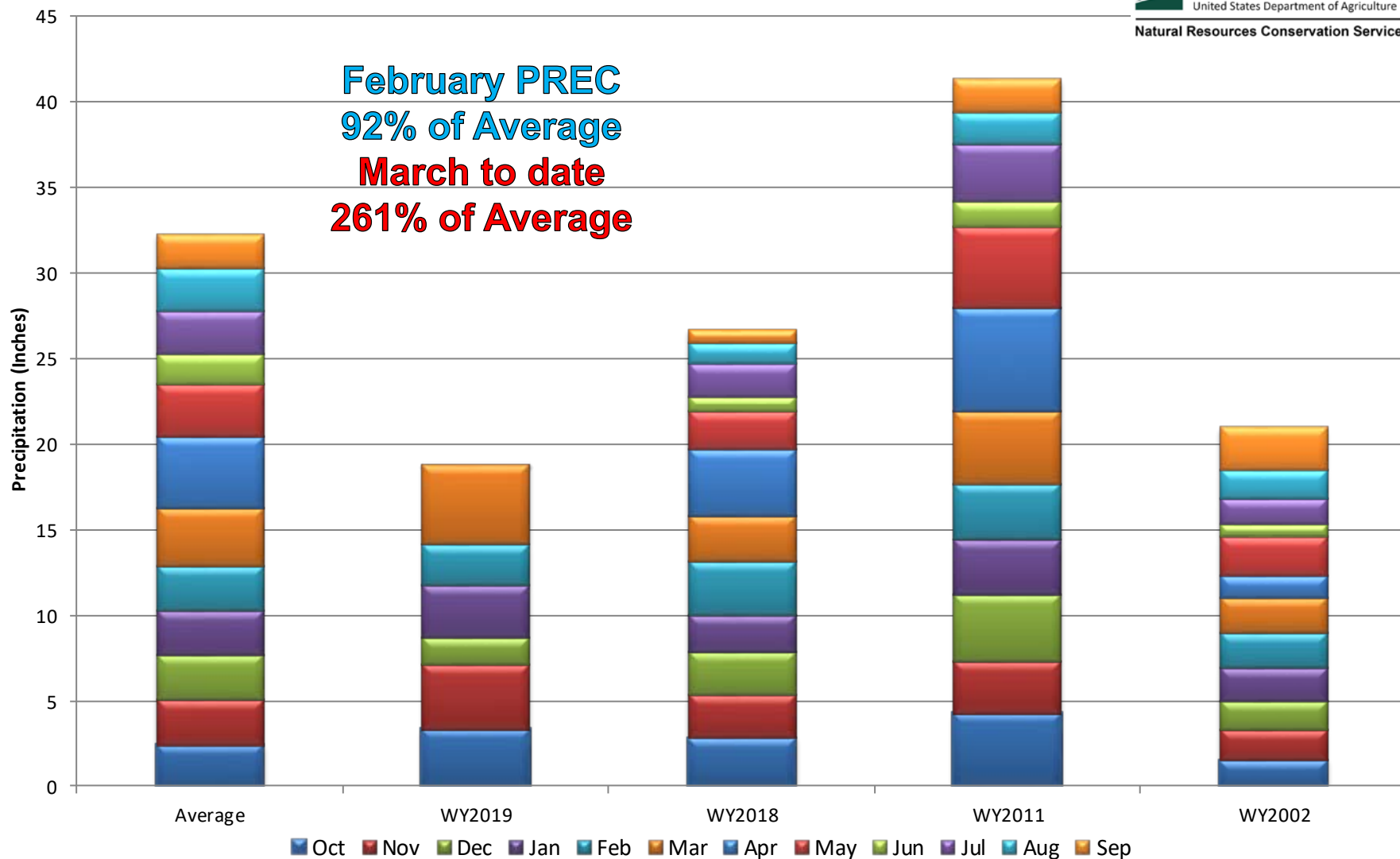
South Platte River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



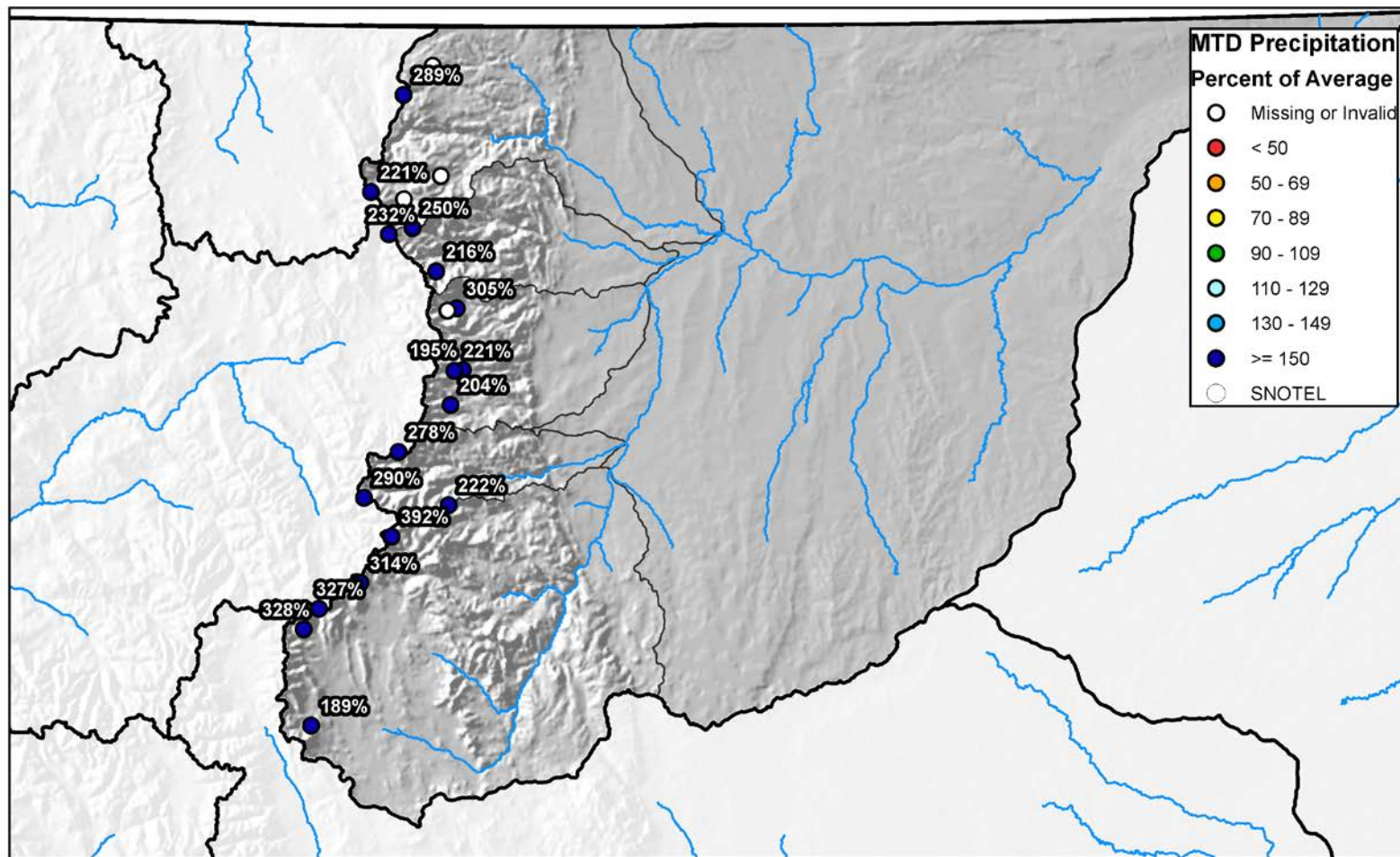
United States Department of Agriculture

Natural Resources Conservation Service



South Platte River Basin Month to Date Precipitation Summary

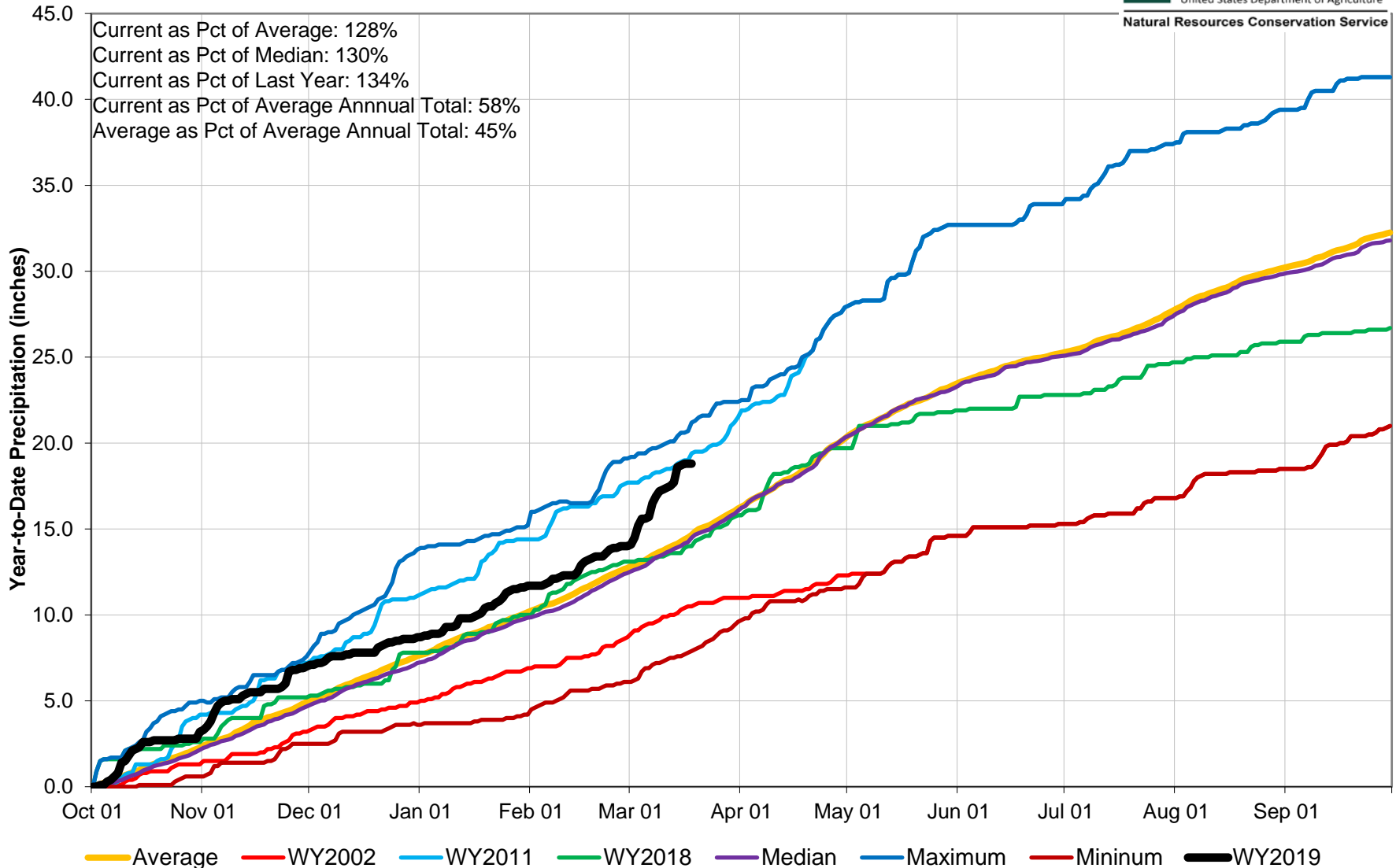
Current as of Mar 18, 2019



0 10 20 40 60 80 Miles

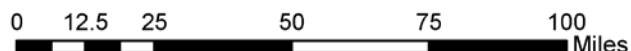
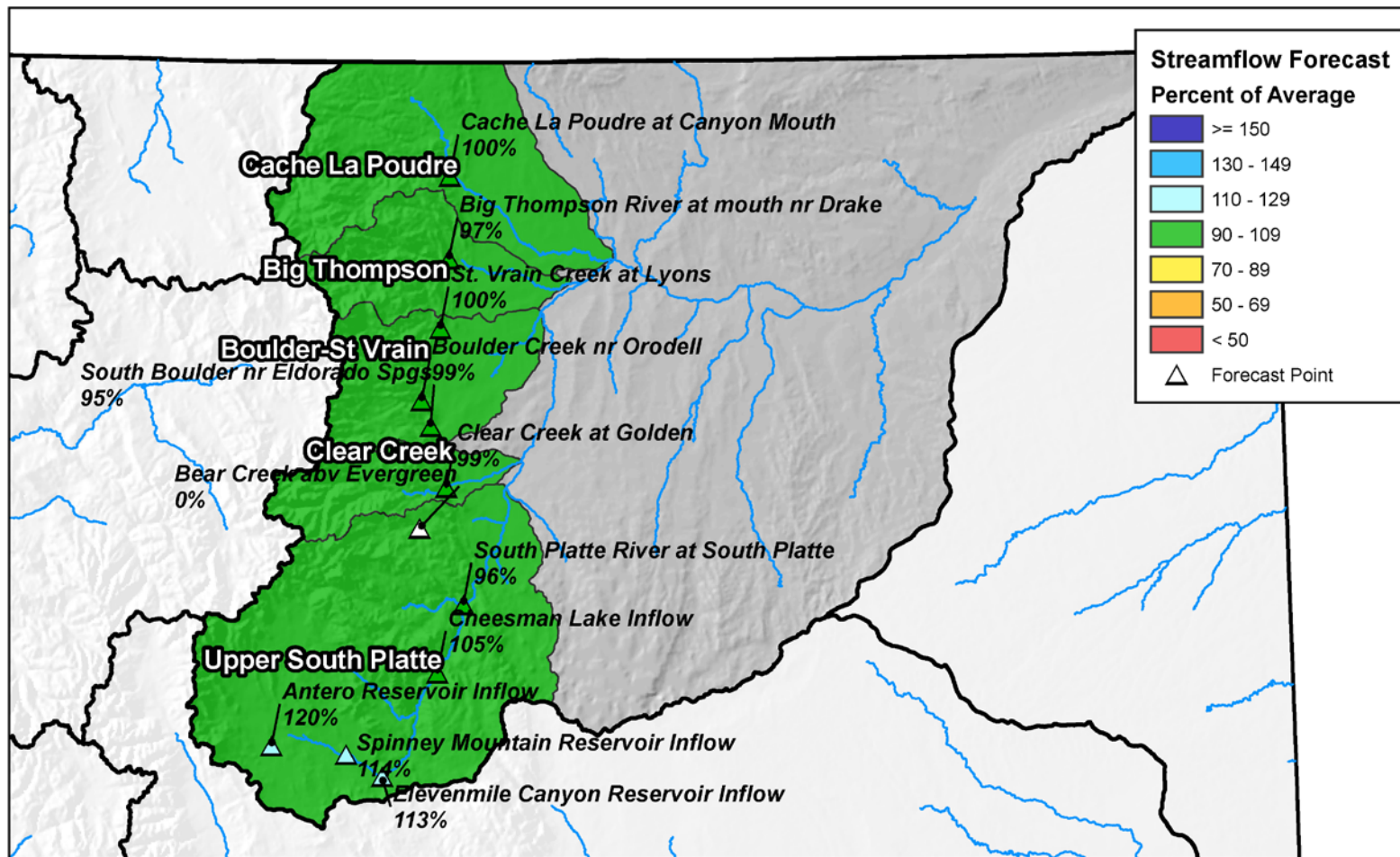
South Platte River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



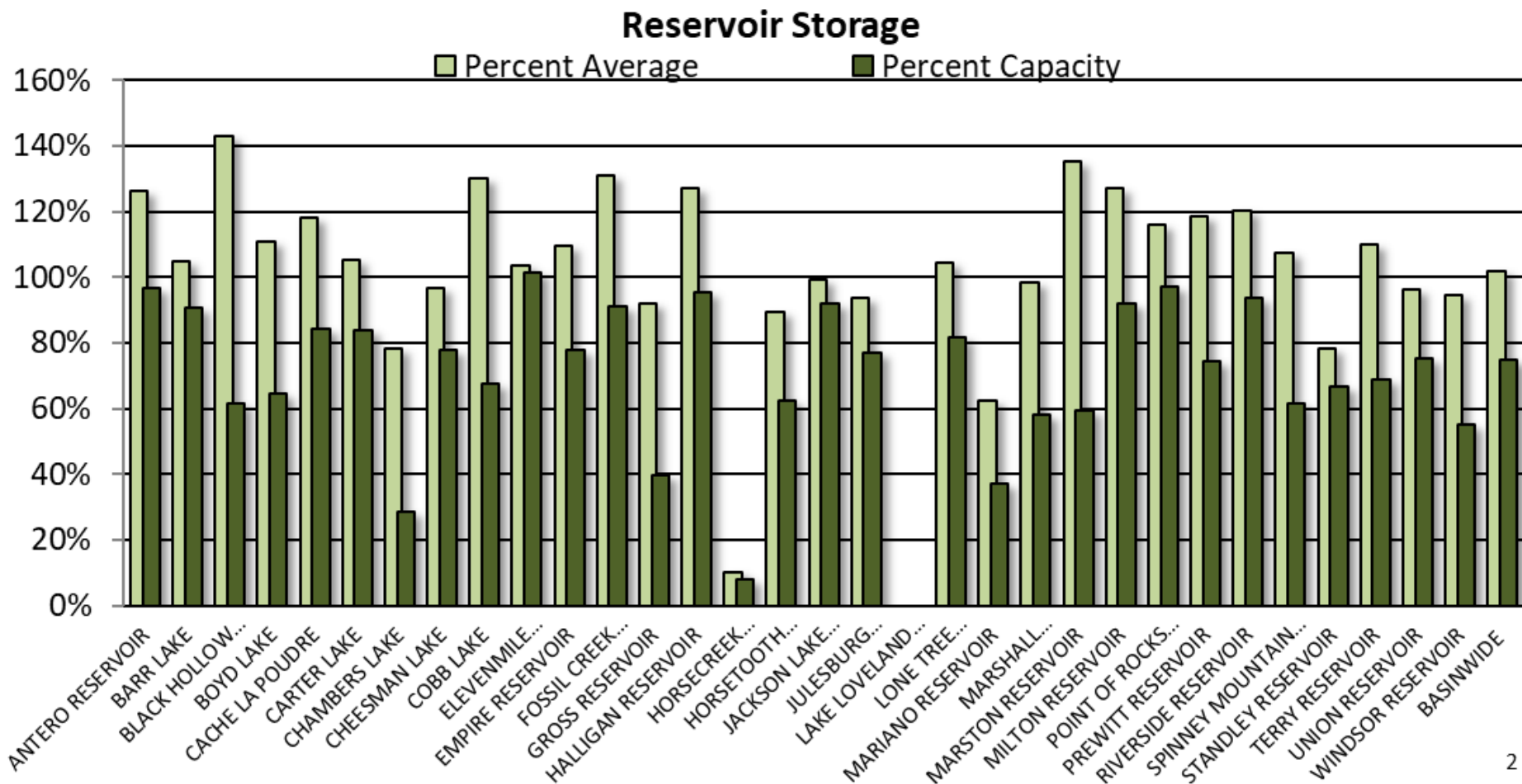
South Platte River Basin Streamflow Forecast Summary

March 1, 2019



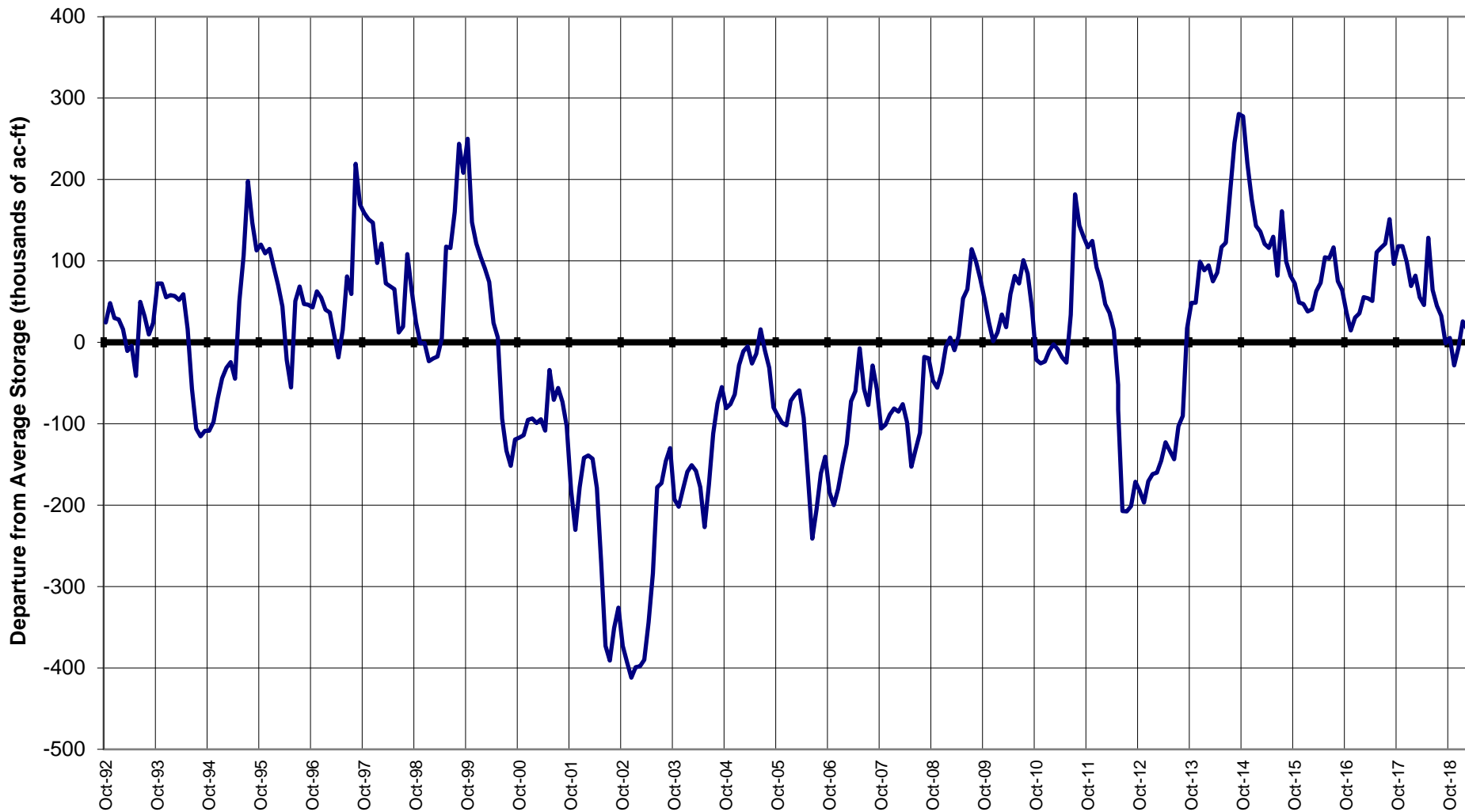
United States Department of Agriculture

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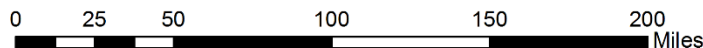
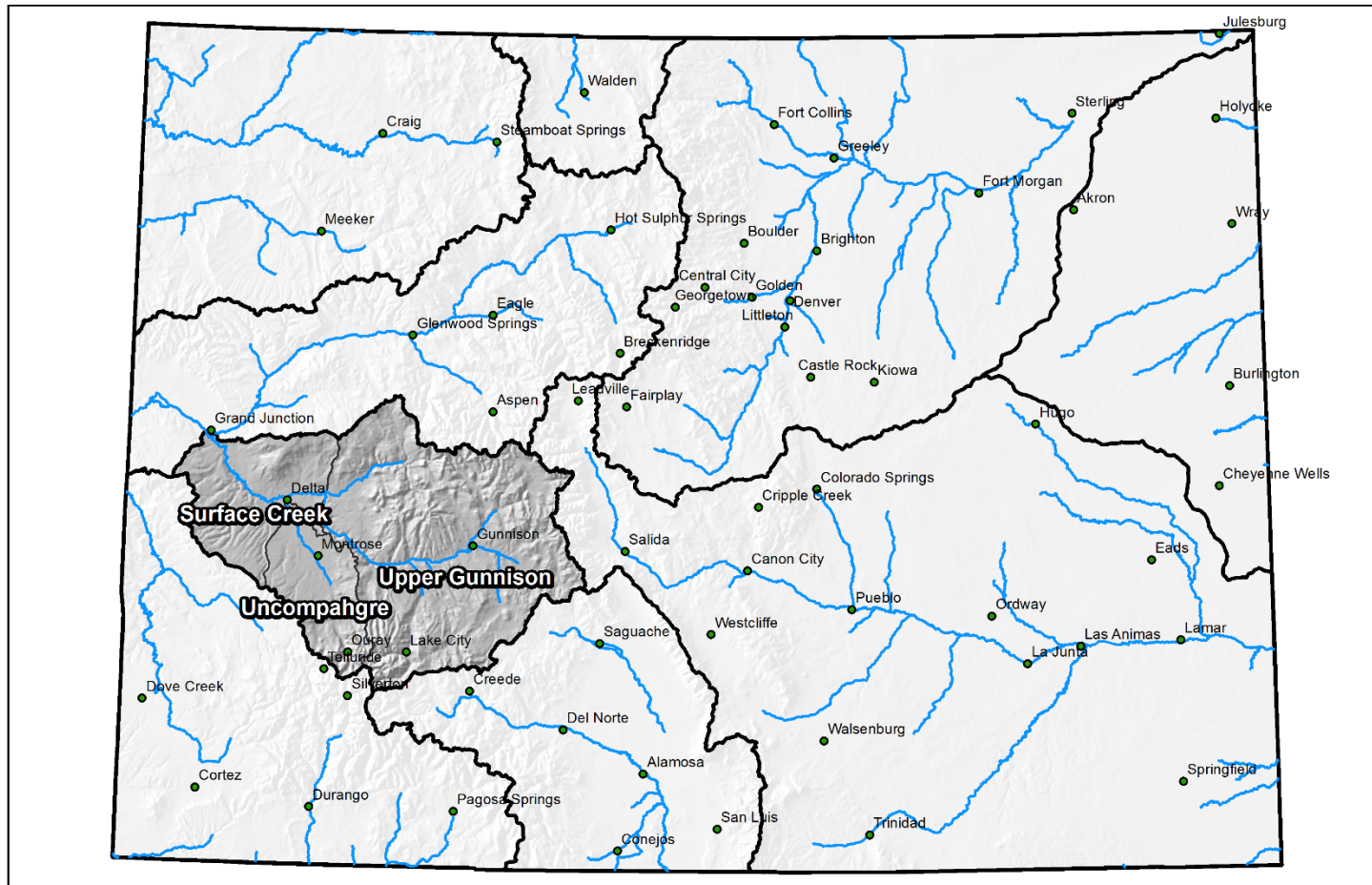


SOUTH PLATTE RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

Gunnison River Basin



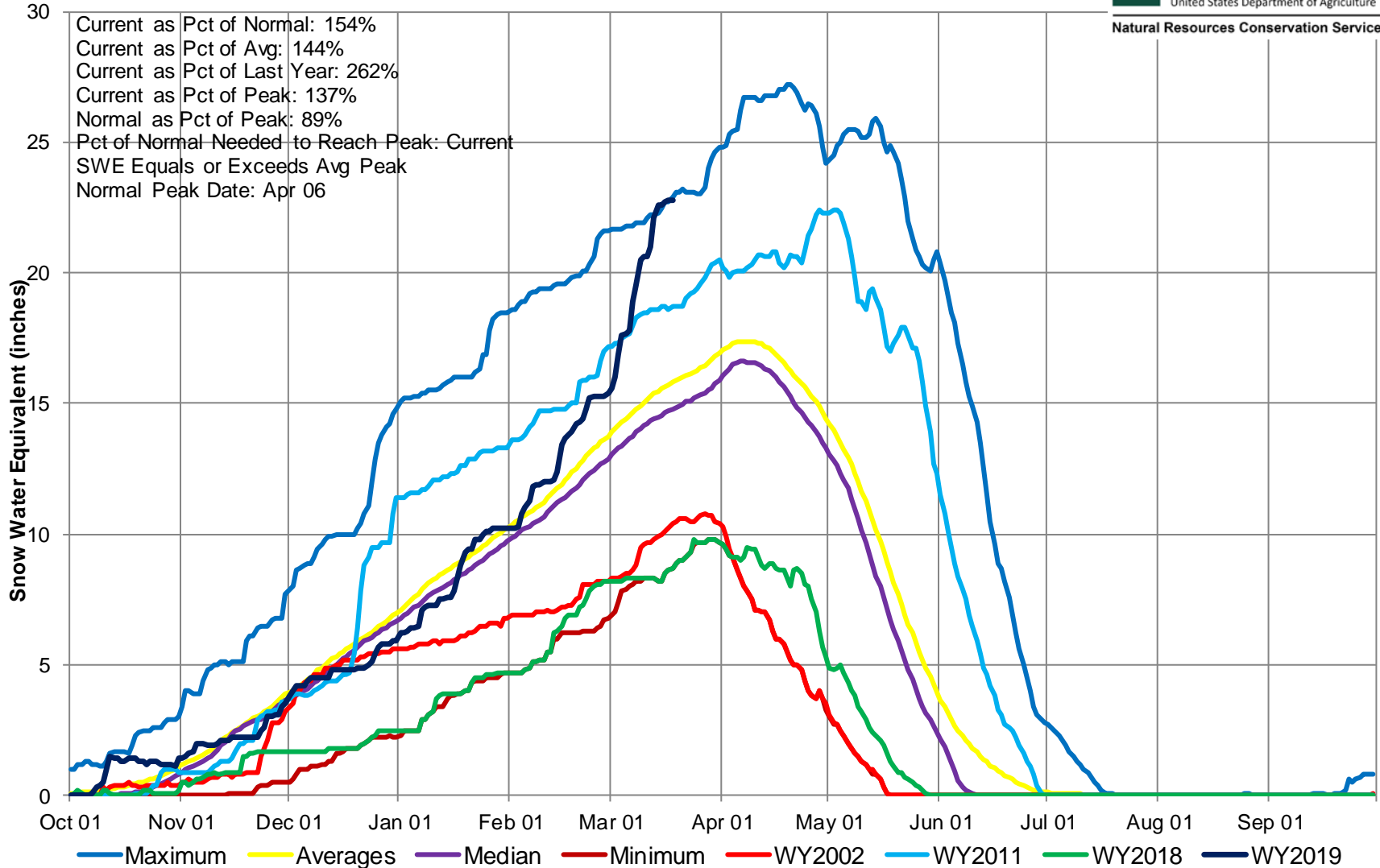
Gunnison River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



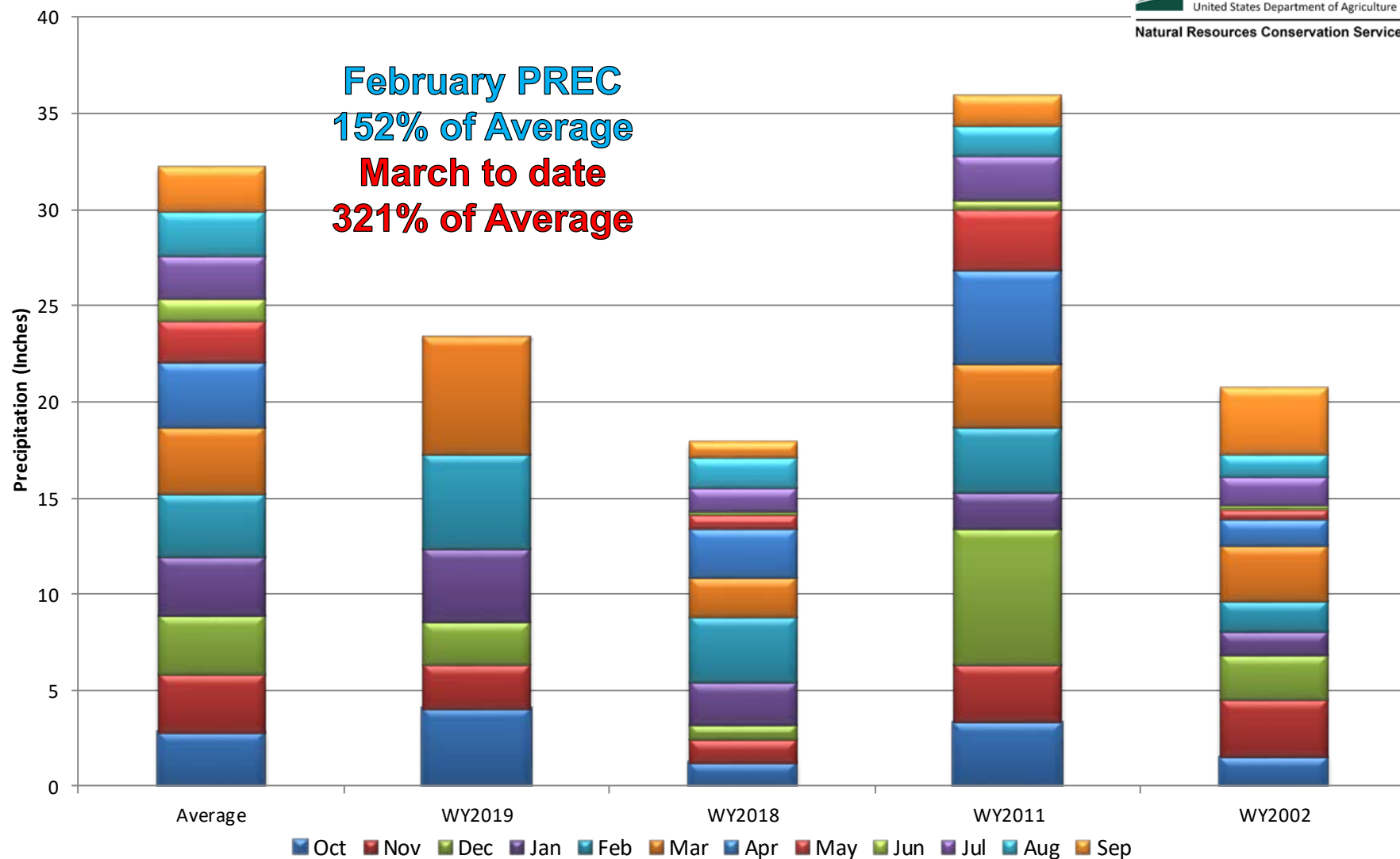
United States Department of Agriculture

Natural Resources Conservation Service



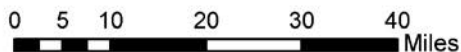
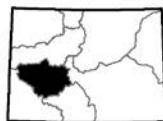
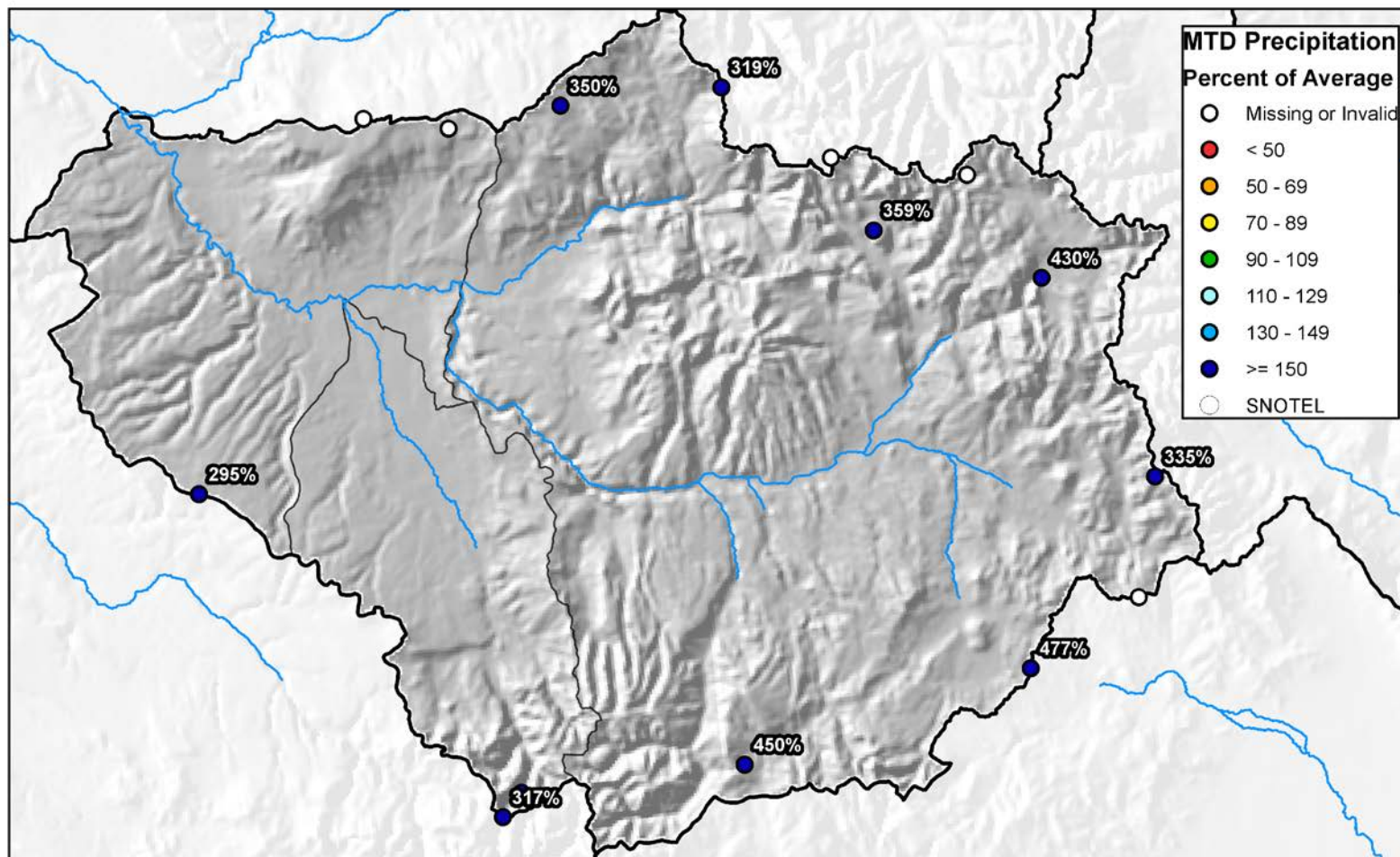
Gunnison River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



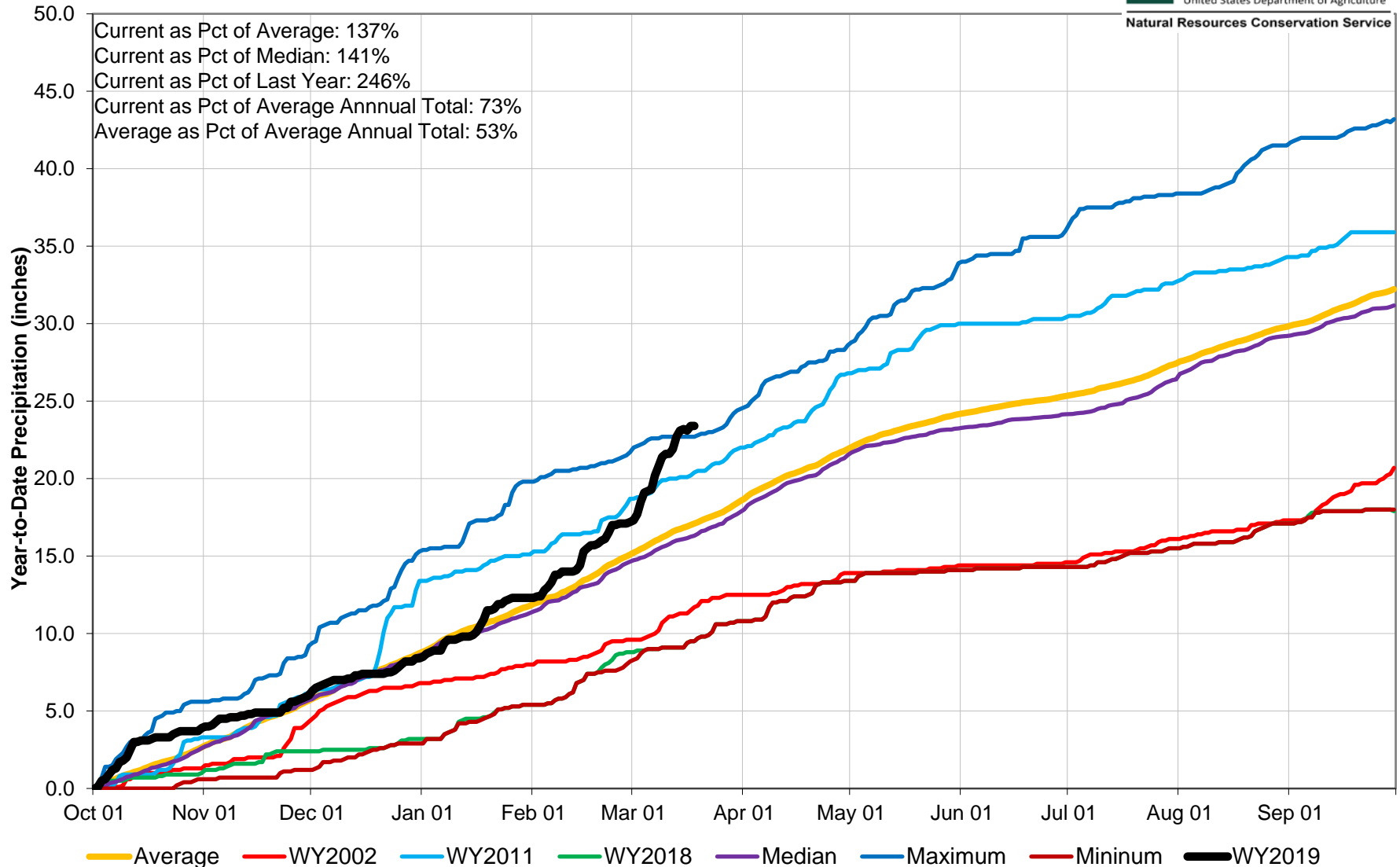
Gunnison River Basin Month to Date Precipitation Summary

Current as of Mar 18, 2019



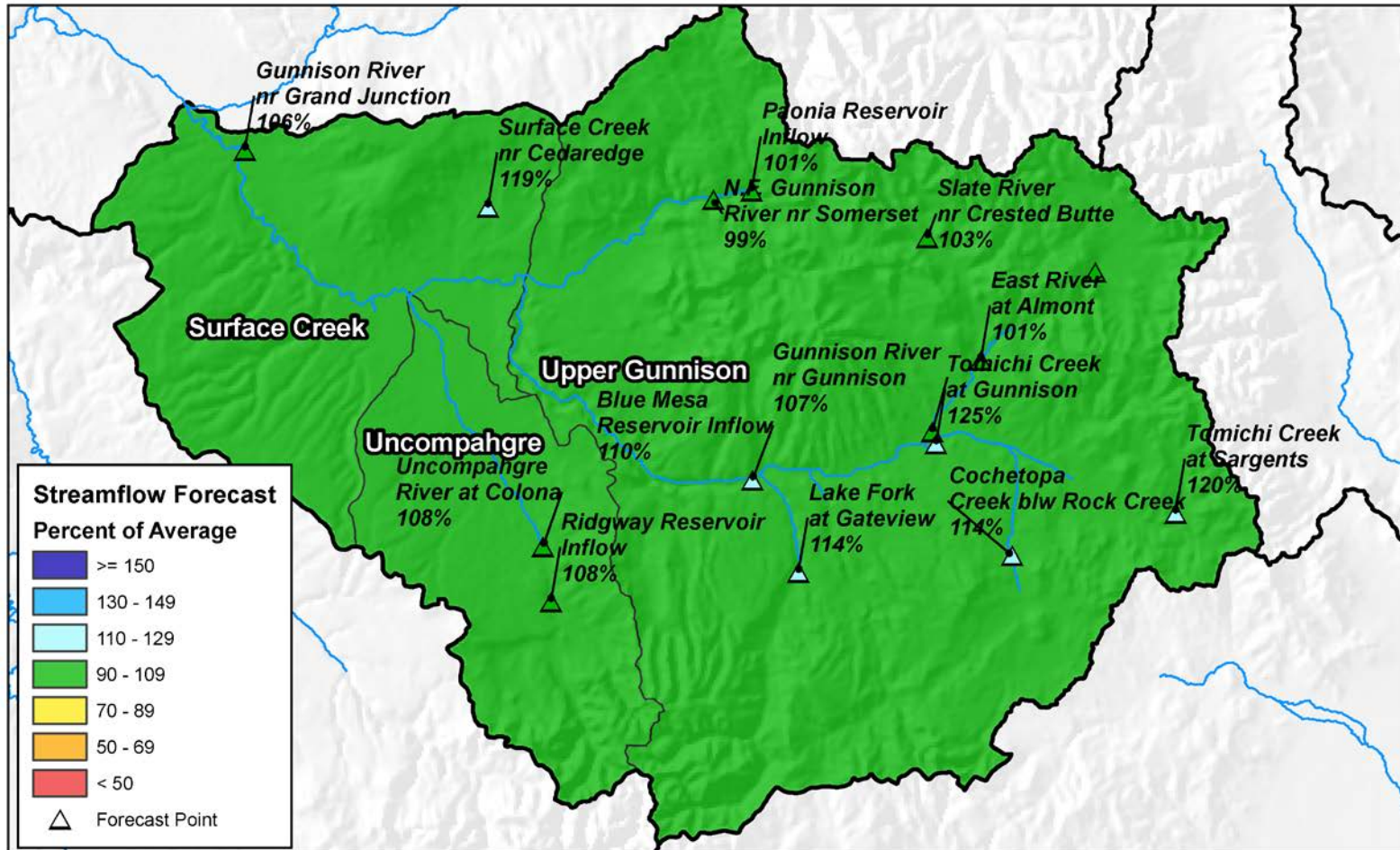
Gunnison River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019

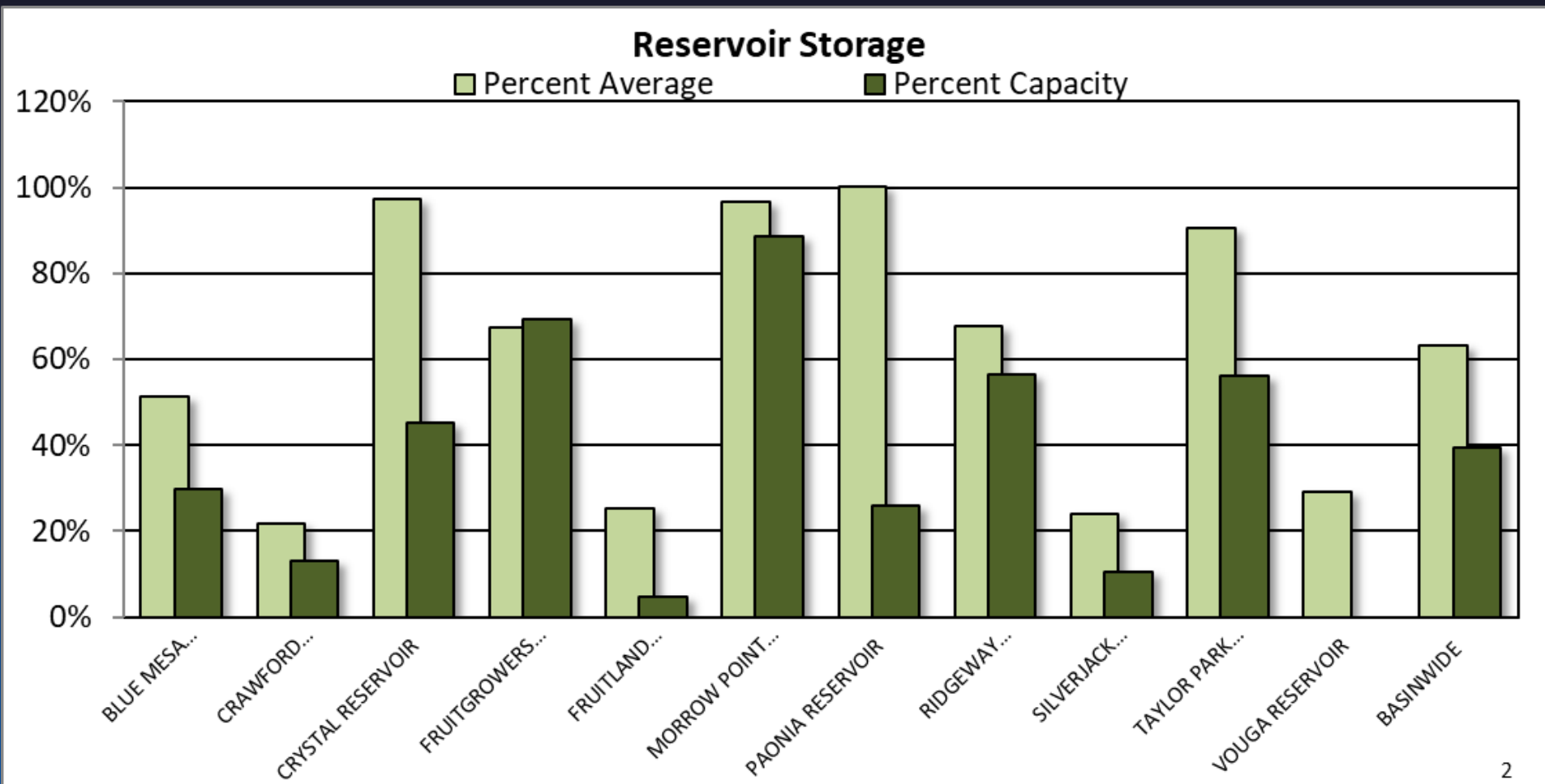


Gunnison River Basin Water Supply Forecast Summary

March 1, 2019

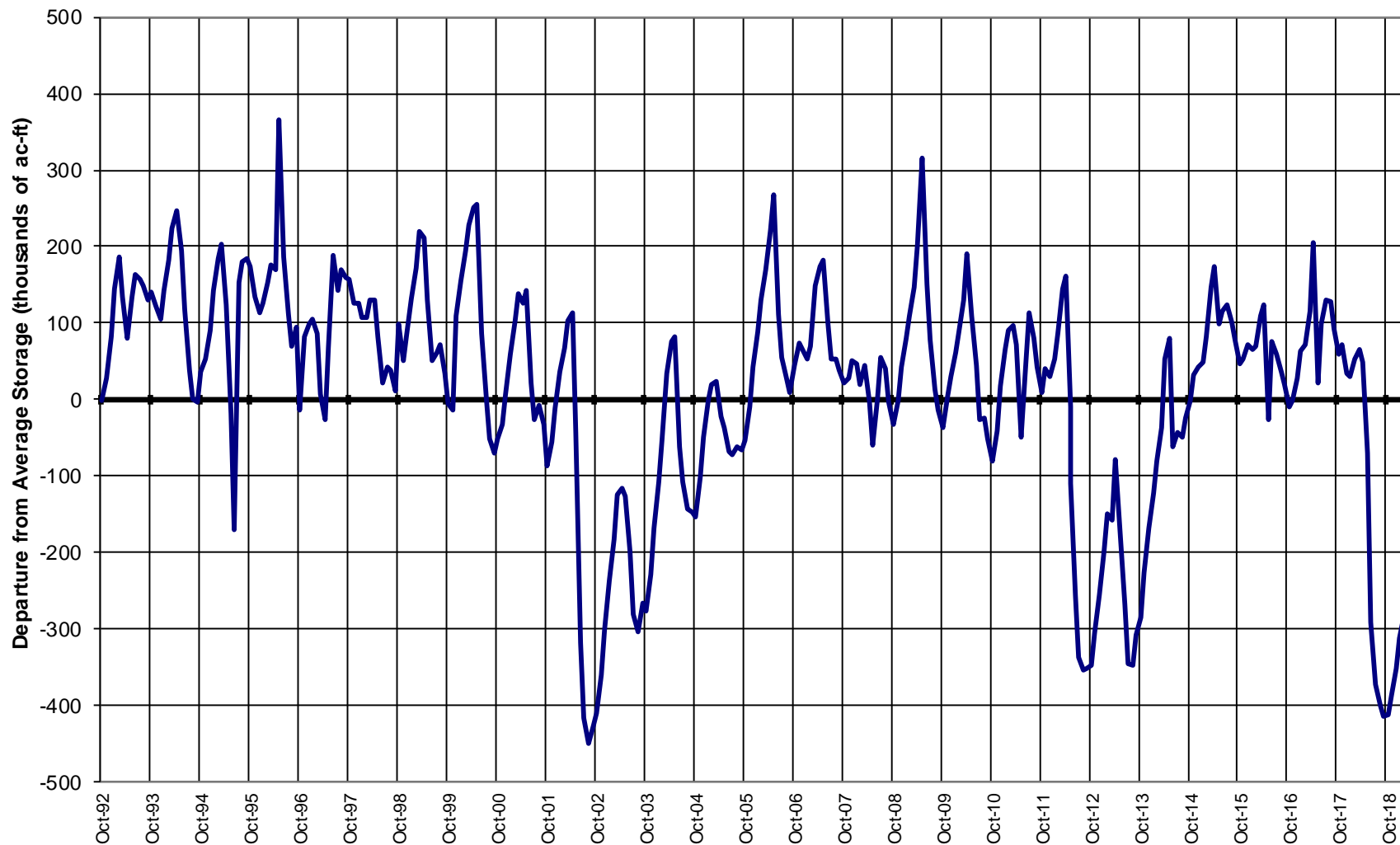


0 5 10 20 30 40 Miles



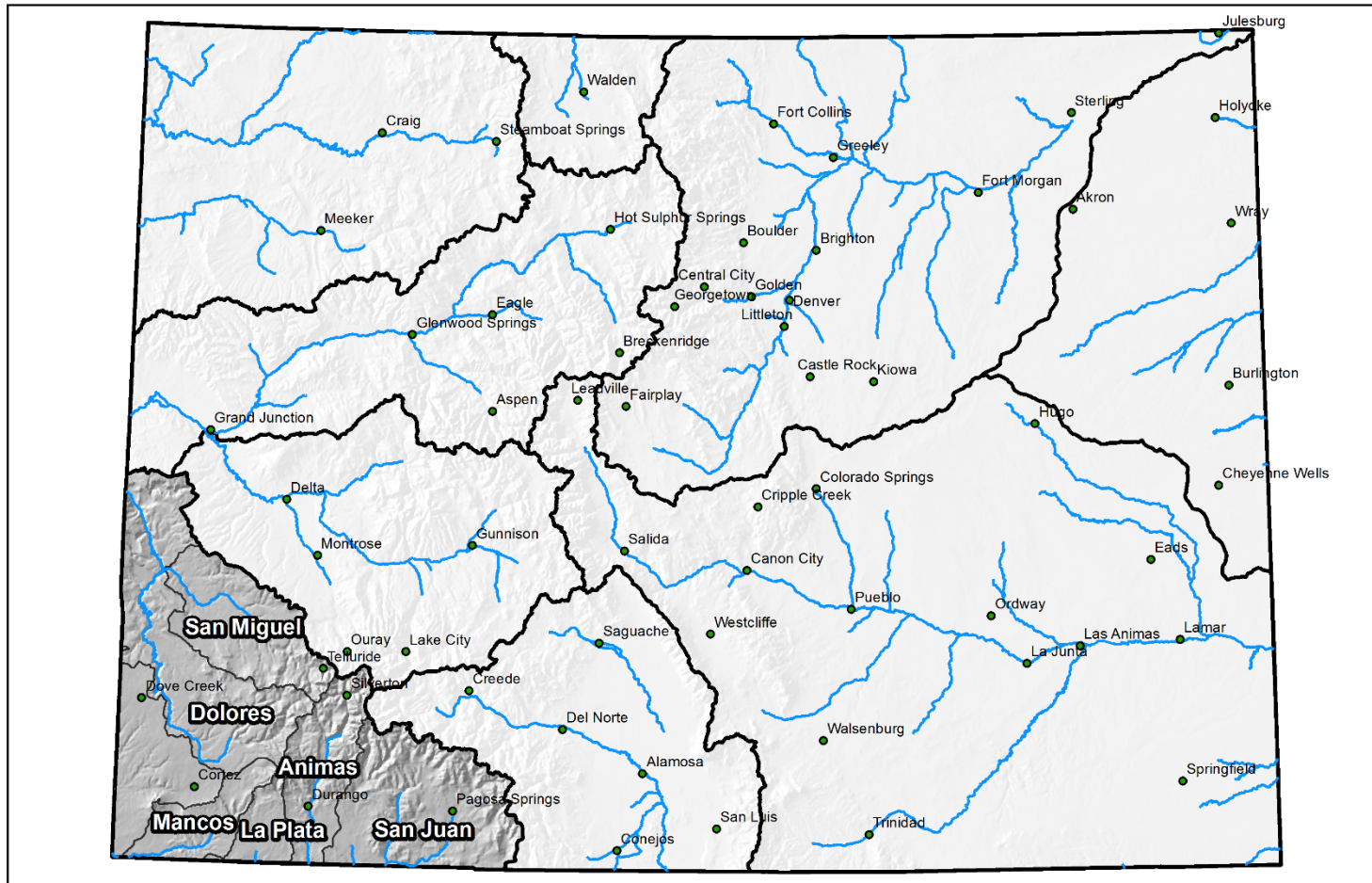


GUNNISON RIVER BASIN Reservoir Storage Departure from Average



Major Basin Summary

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



0 25 50 100 150 200 Miles



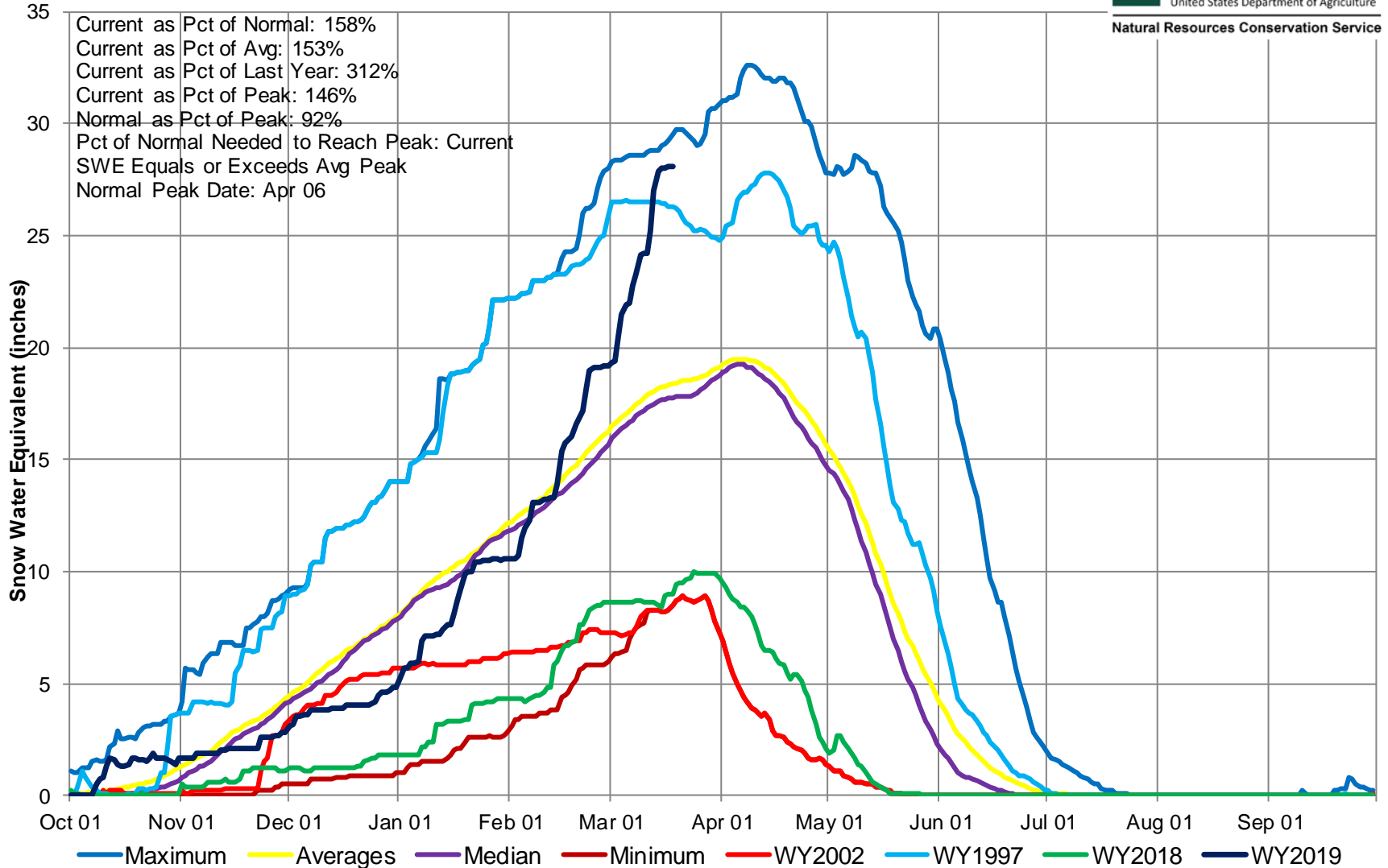
San Miguel, Dolores, Animas and San Juan River Basins High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



United States Department of Agriculture

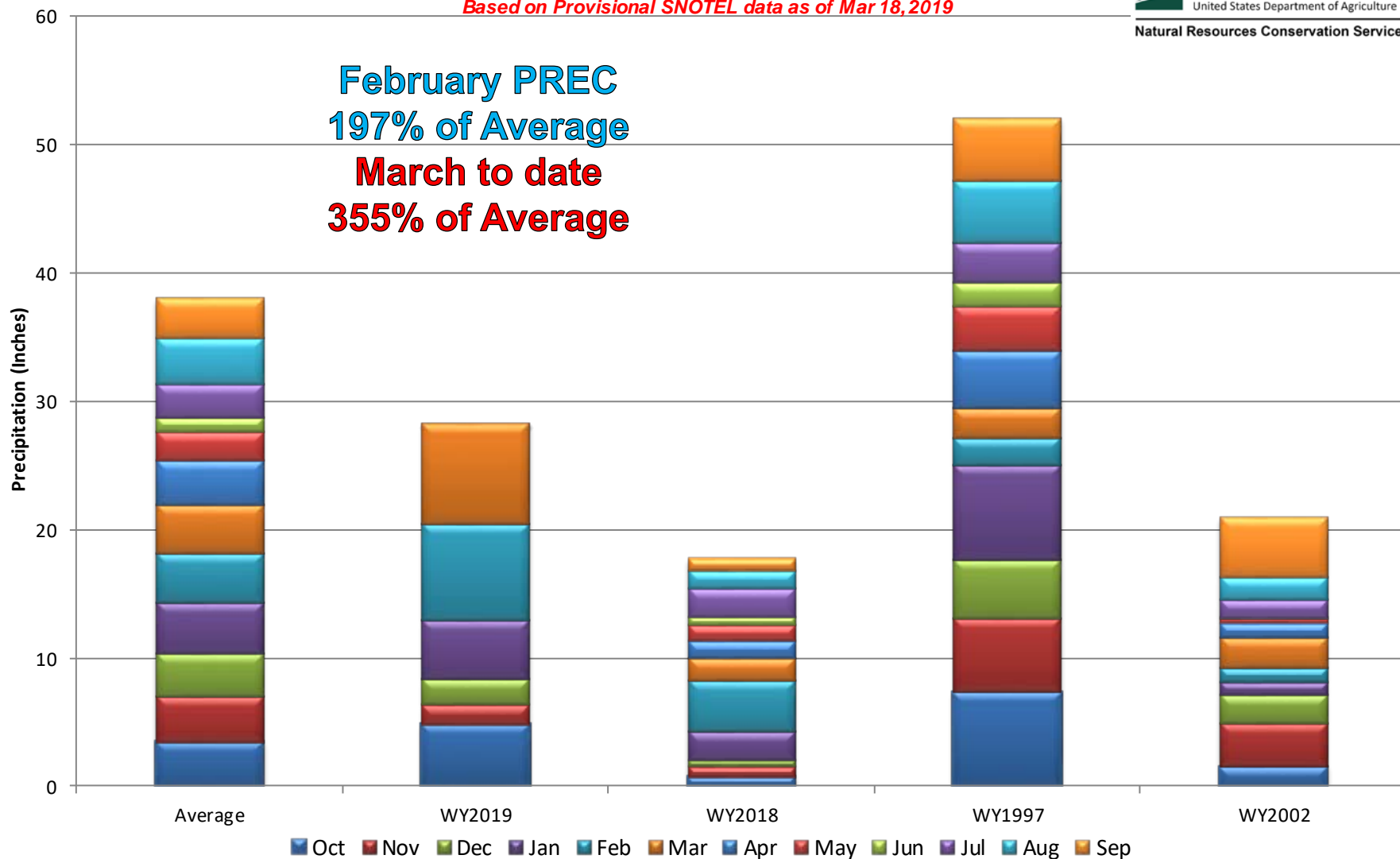
Natural Resources Conservation Service



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

Based on Provisional SNOTEL data as of Mar 18, 2019

February PREC
197% of Average
March to date
355% of Average

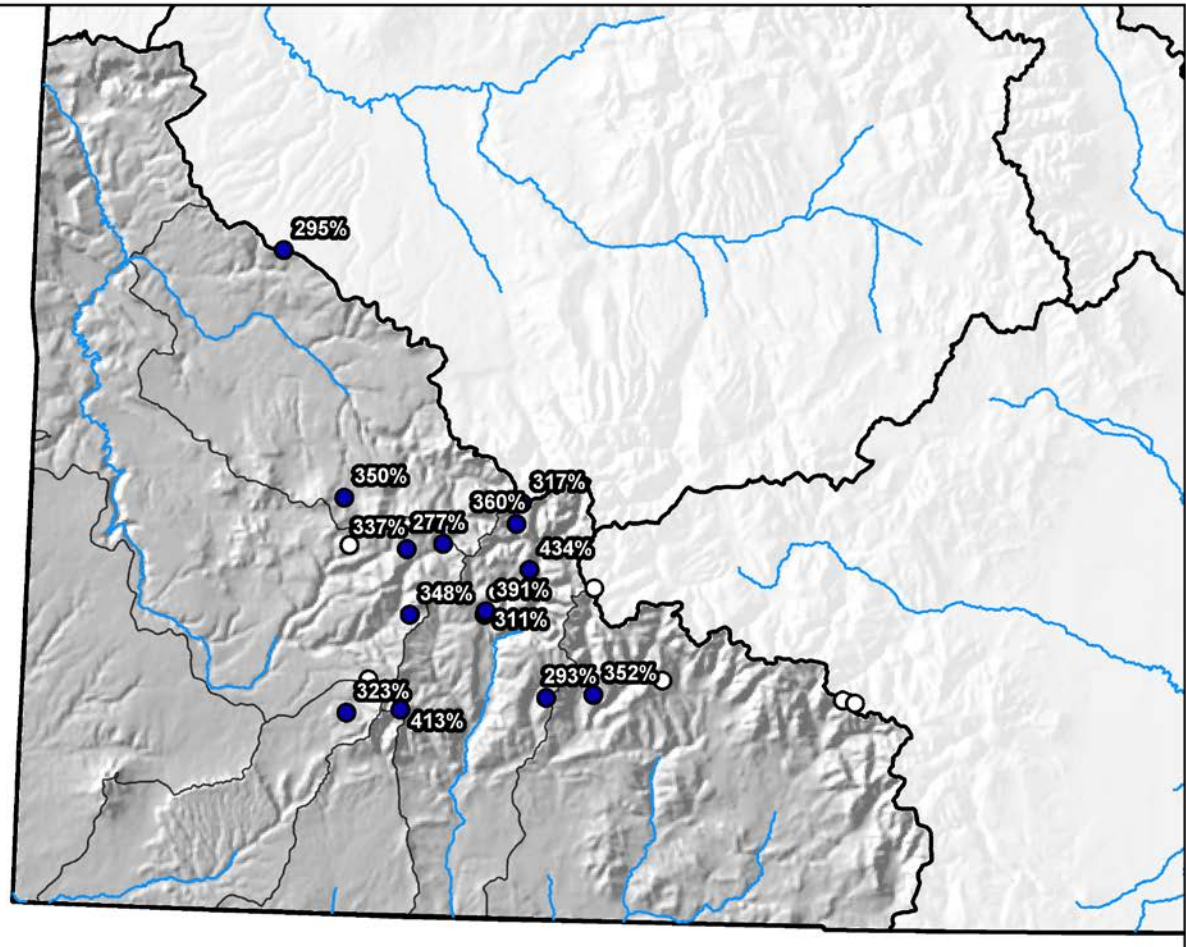


San Miguel, Dolores, Animas, and San Juan River Basins Month to Date Precipitation Summary

Current as of Mar 18, 2019

MTD Precipitation Percent of Average

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

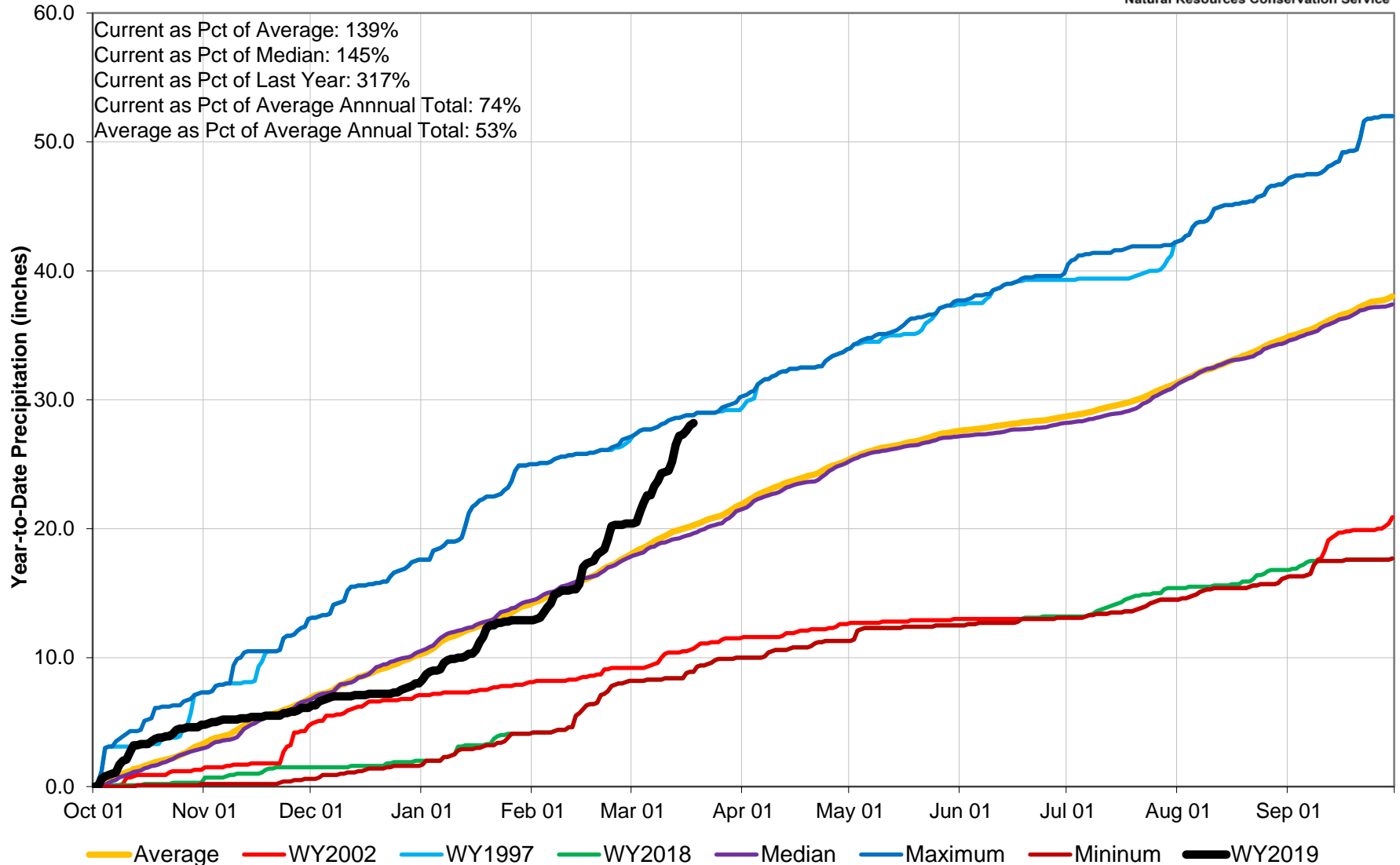


0 10 20 40 60 80 Miles



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

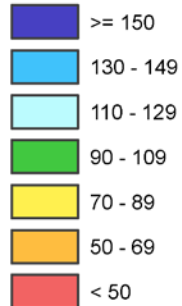
Based on Provisional SNOTEL data as of Mar 18, 2019



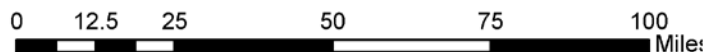
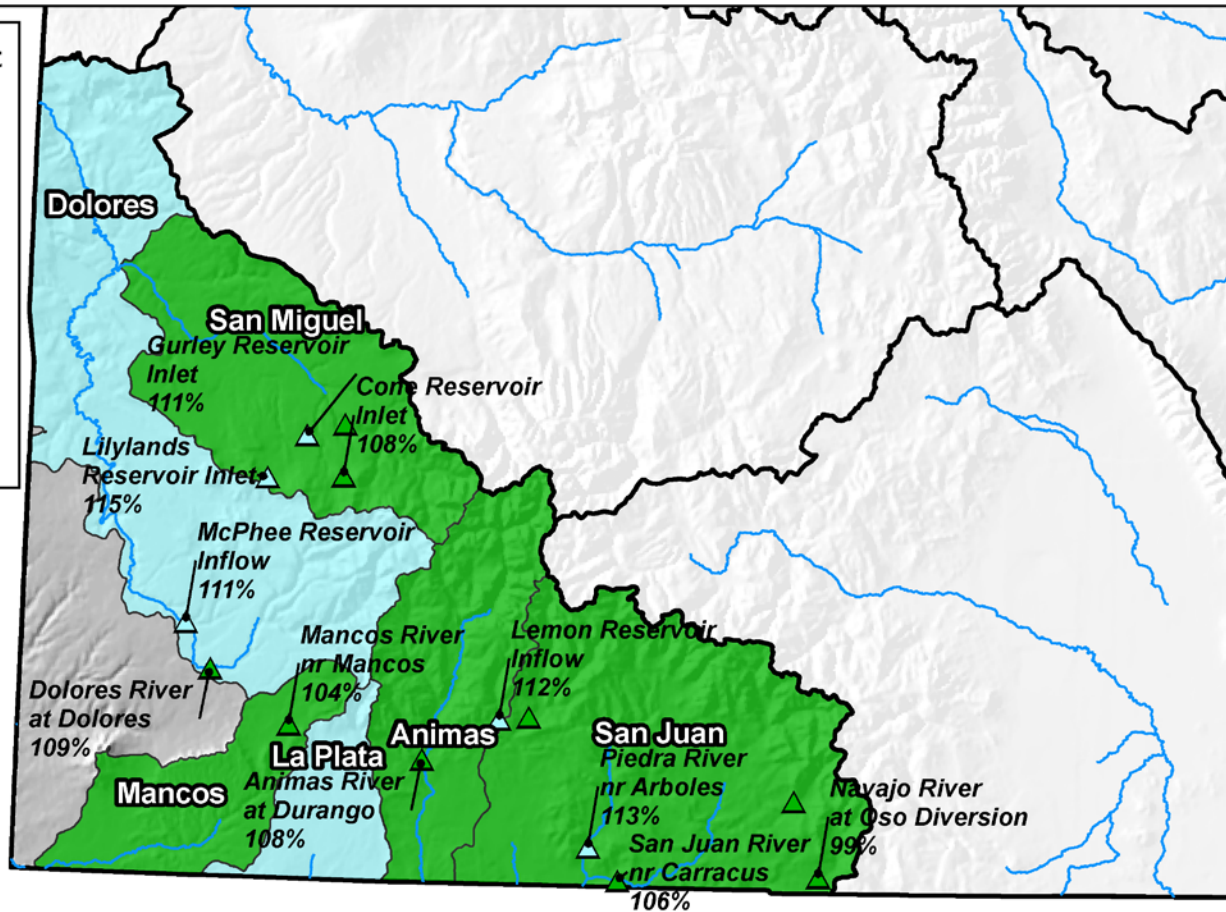
San Miguel, Dolores, Animas, and San Juan River Basins Streamflow Forecast Summary

March 1, 2019

Streamflow Forecast Percent of Average



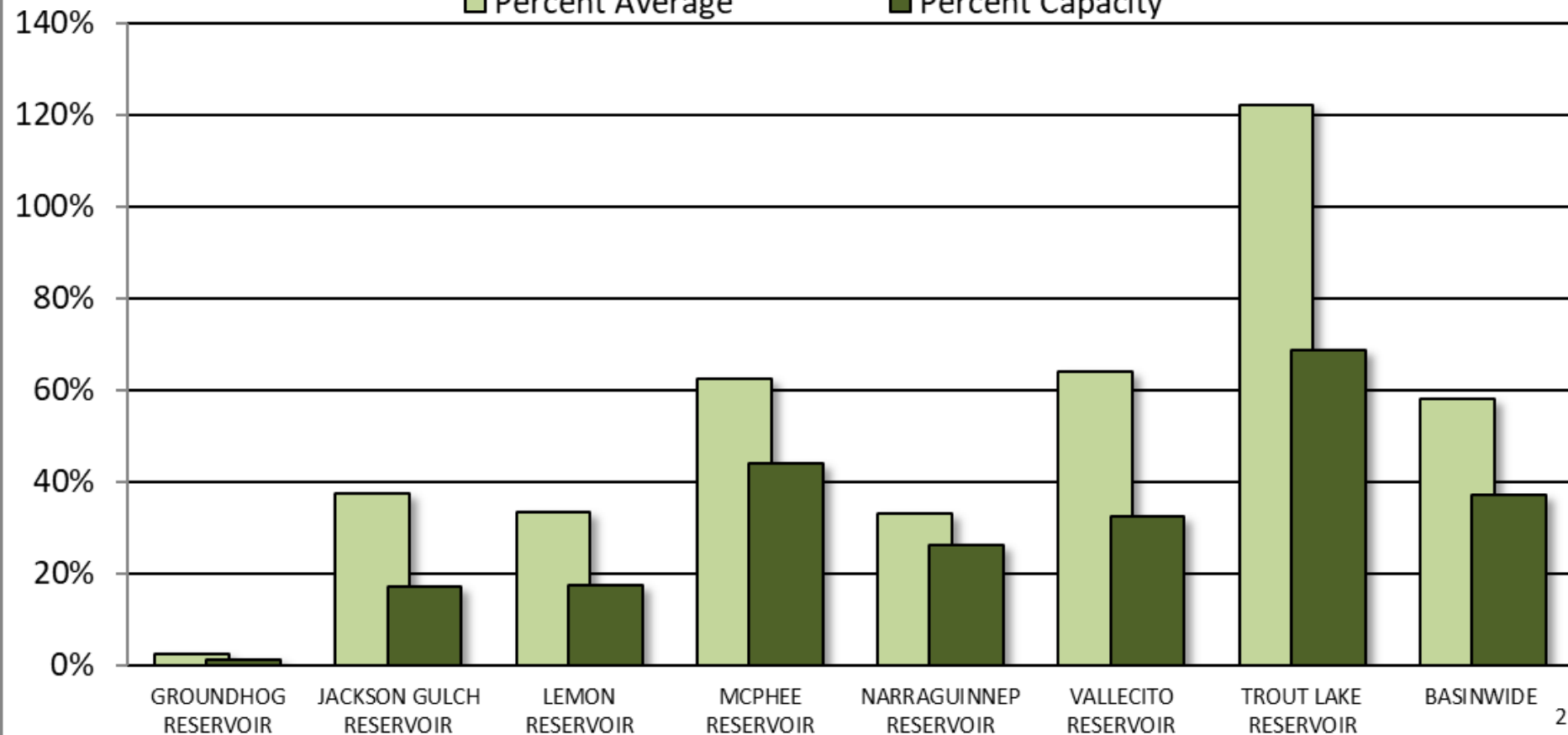
Forecast Point



Reservoir Storage

■ Percent Average

■ Percent Capacity

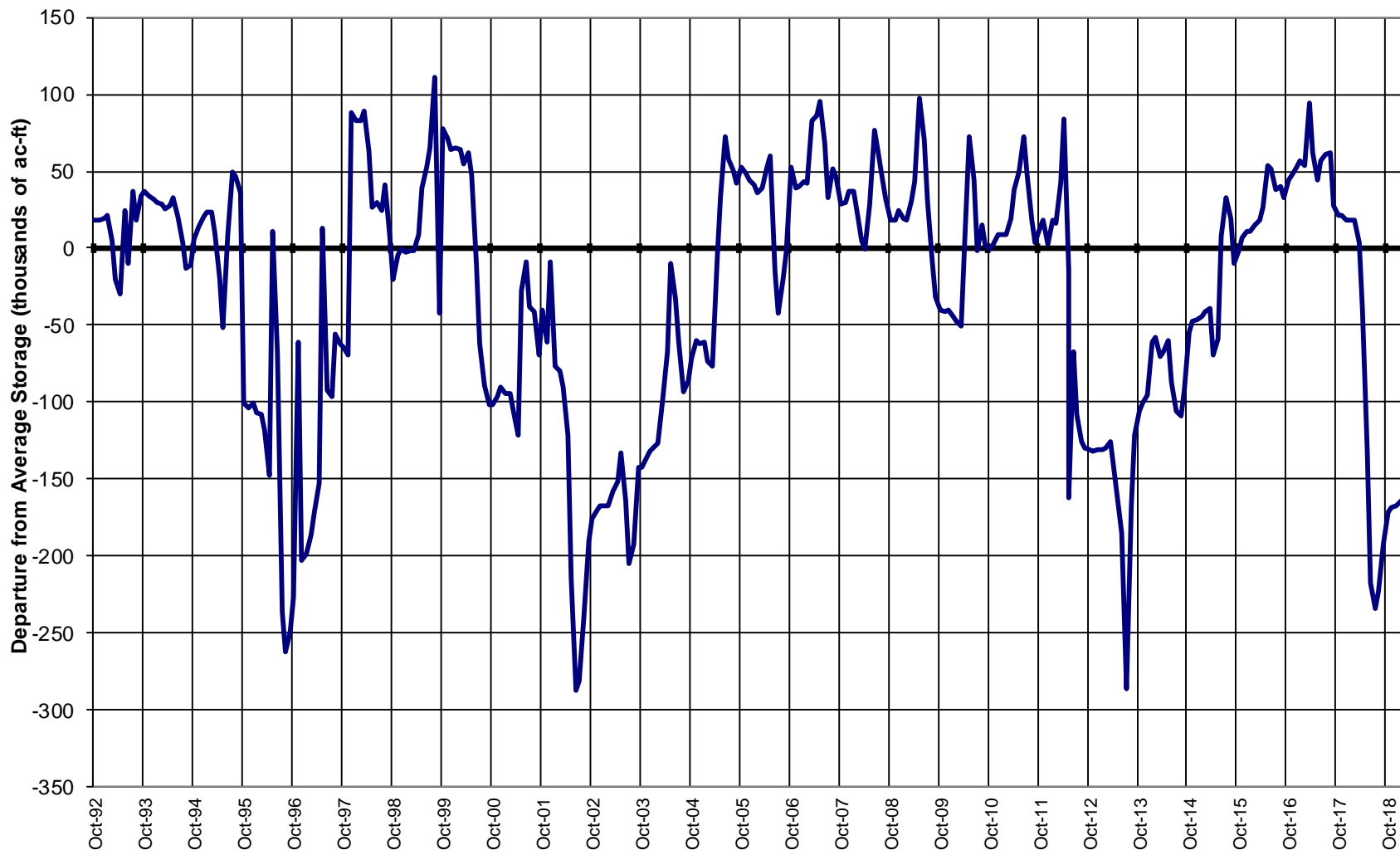




SAN MIGUEL, DOLORES, ANIMAS AND SAN JUAN RIVER BASINS

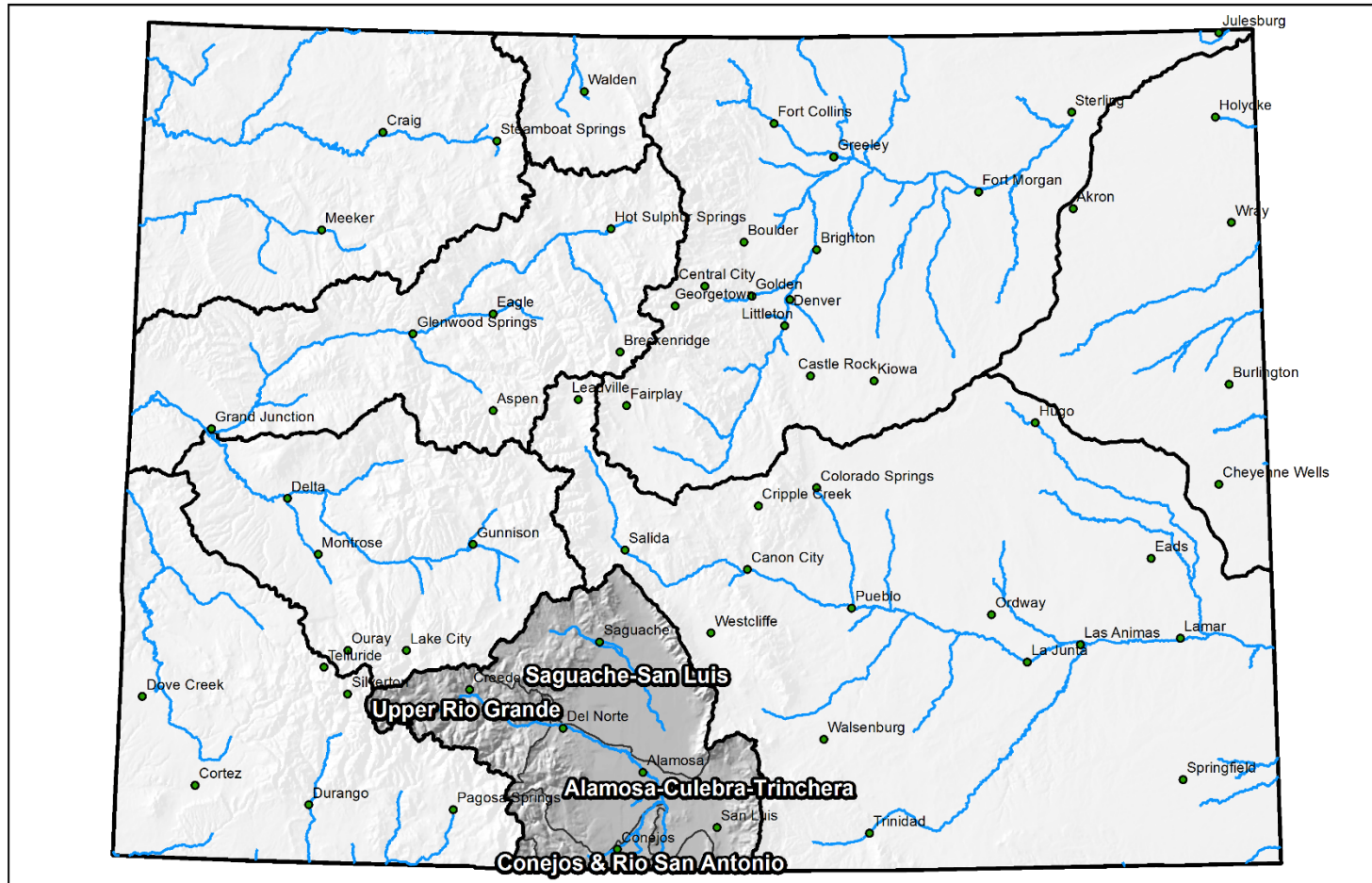
Reservoir Storage

Departure from Average



Major Basin Summary

Upper Rio Grande River Basin



0 25 50 100 150 200 Miles

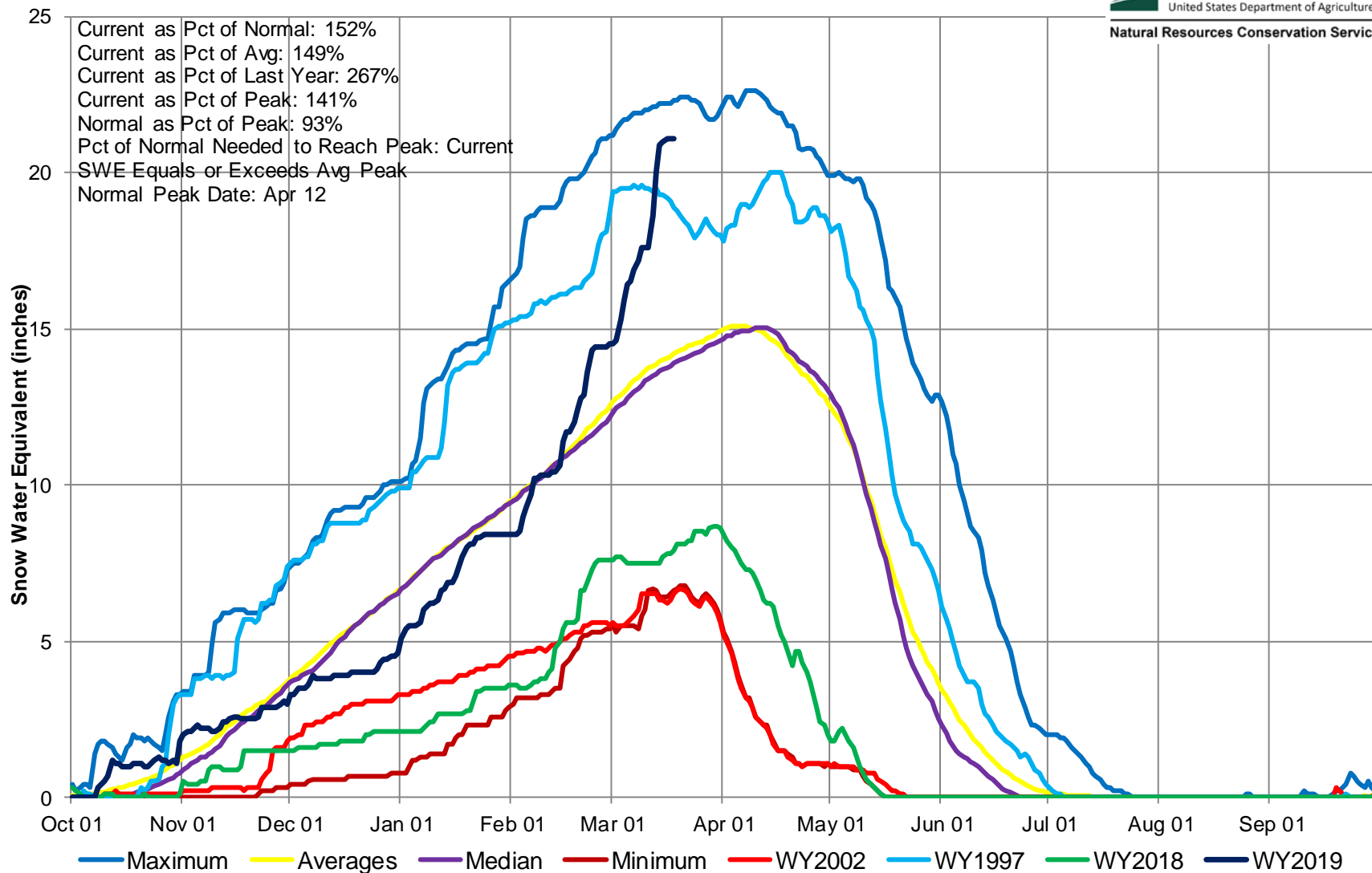
Upper Rio Grande Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



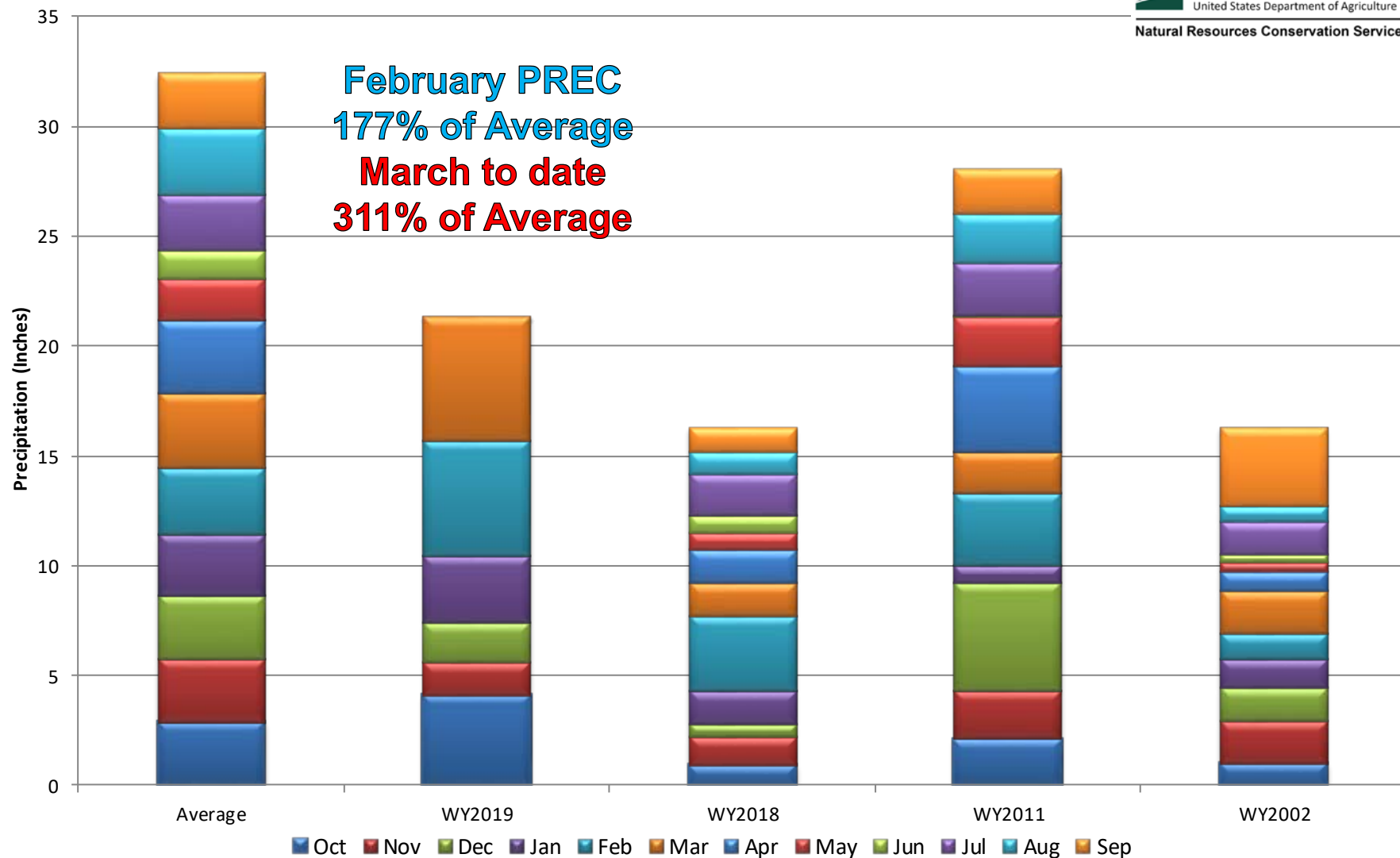
United States Department of Agriculture

Natural Resources Conservation Service



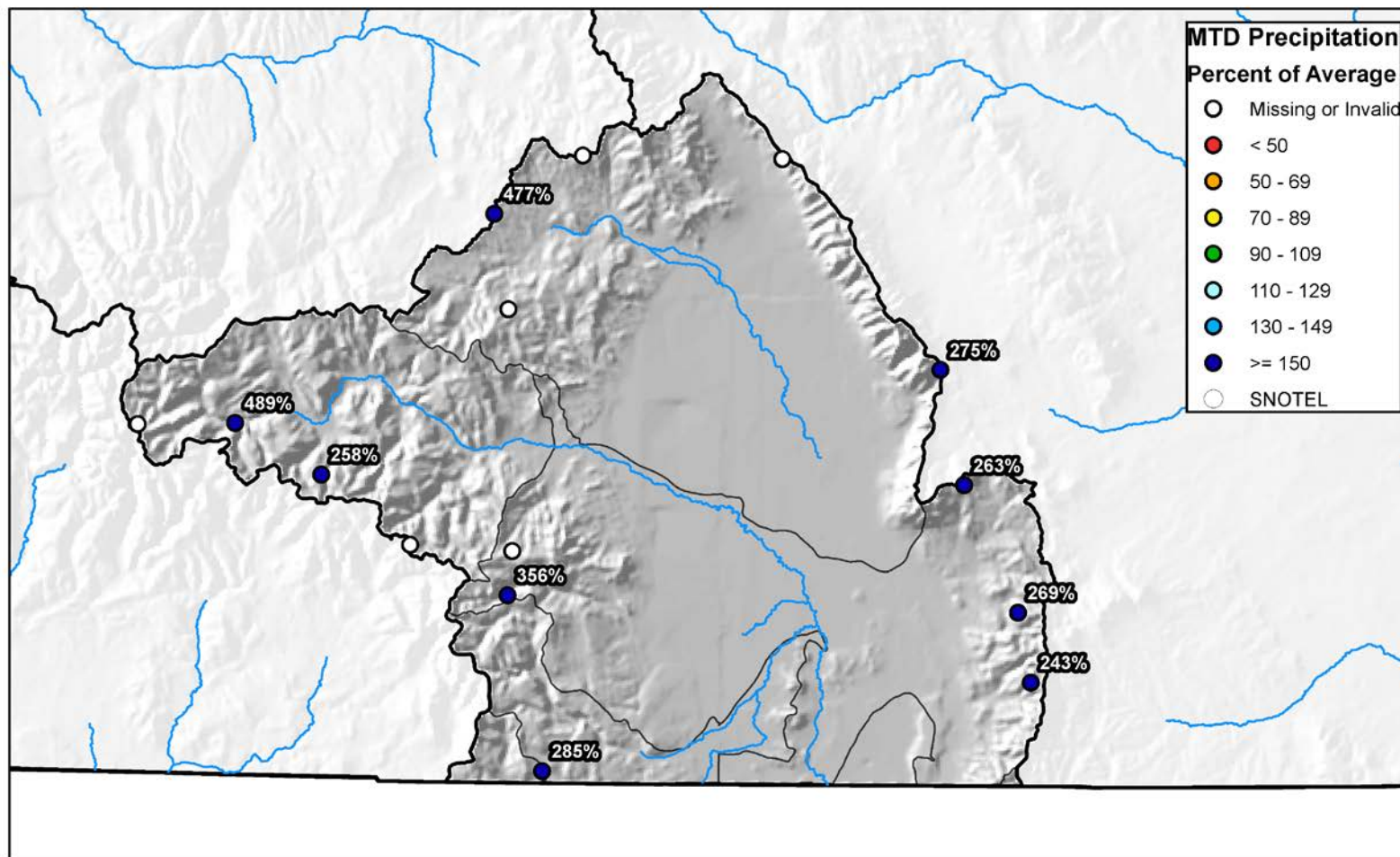
Upper Rio Grande River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



Upper Rio Grande River Basin Month to Date Precipitation Summary

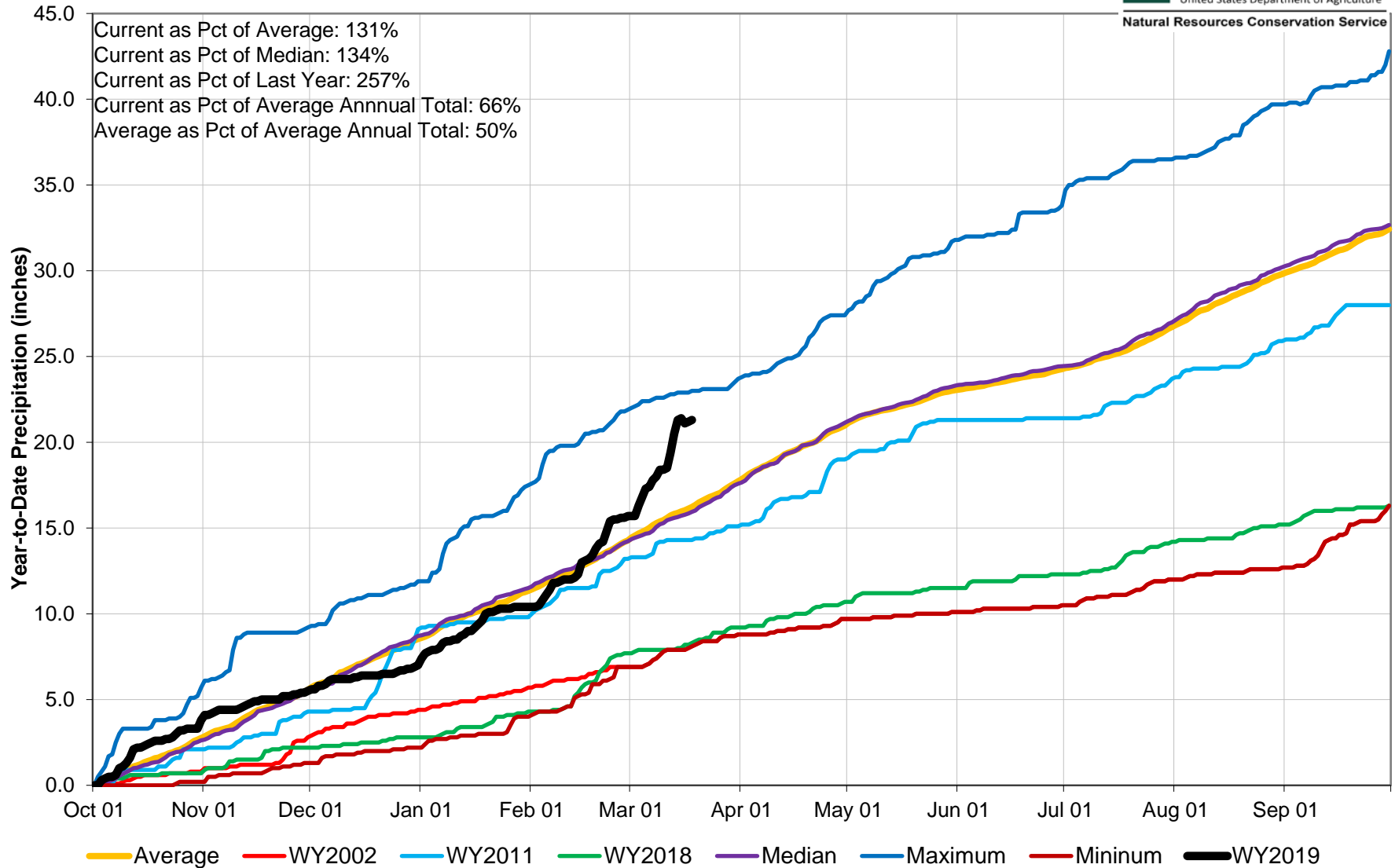
Current as of Mar 18, 2019





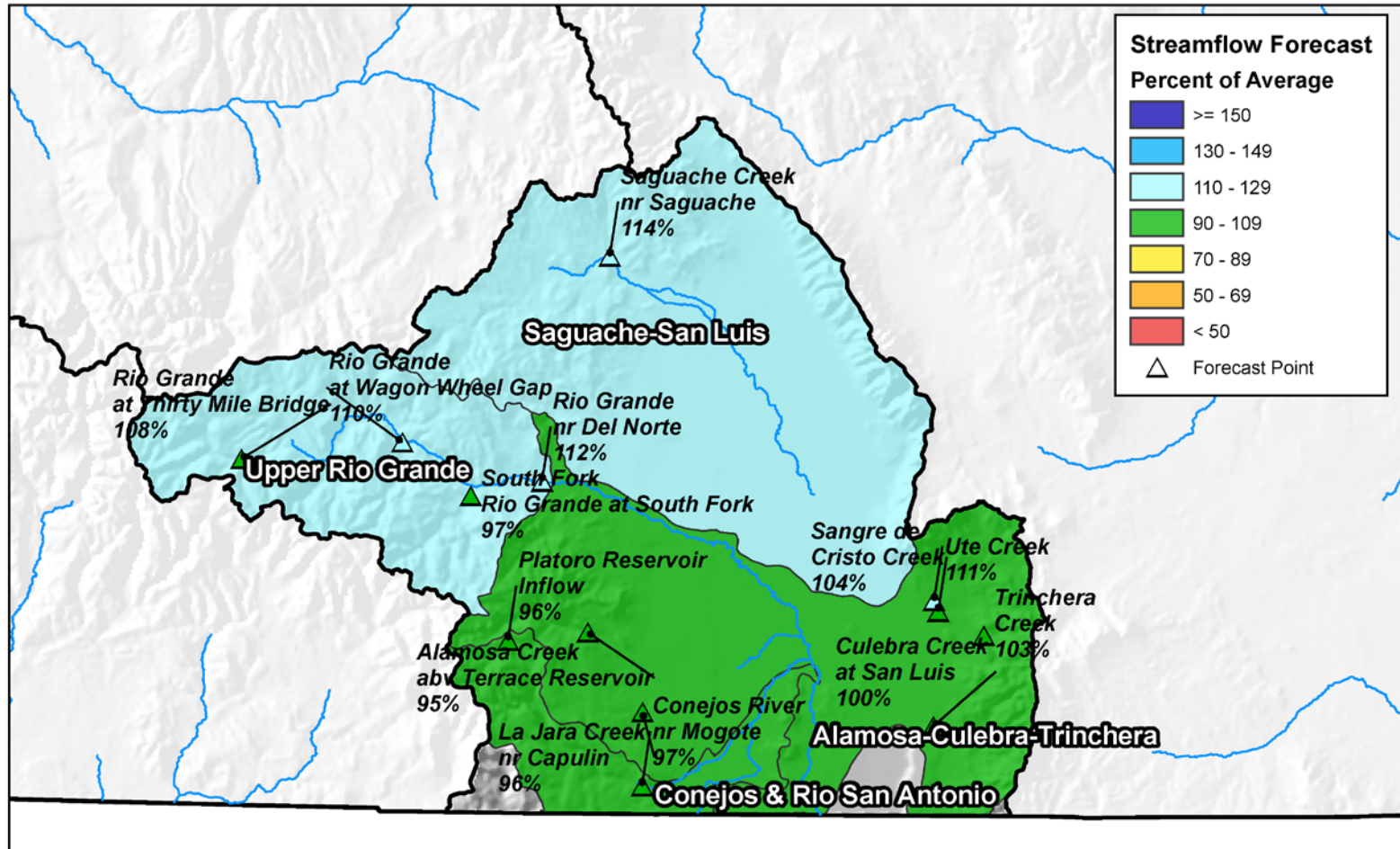
Upper Rio Grande River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



Upper Rio Grande River Basin Streamflow Forecast Summary

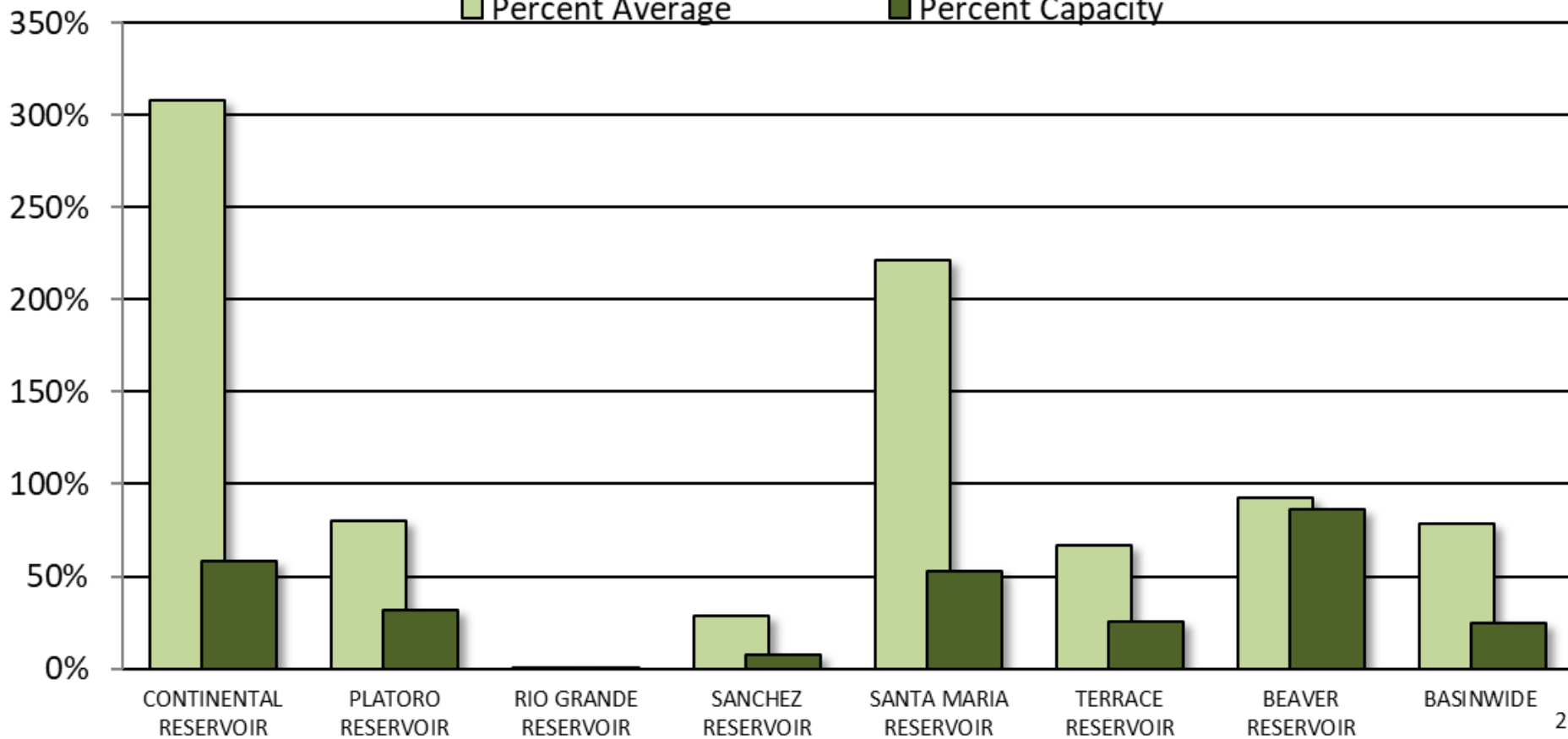
March 1, 2019



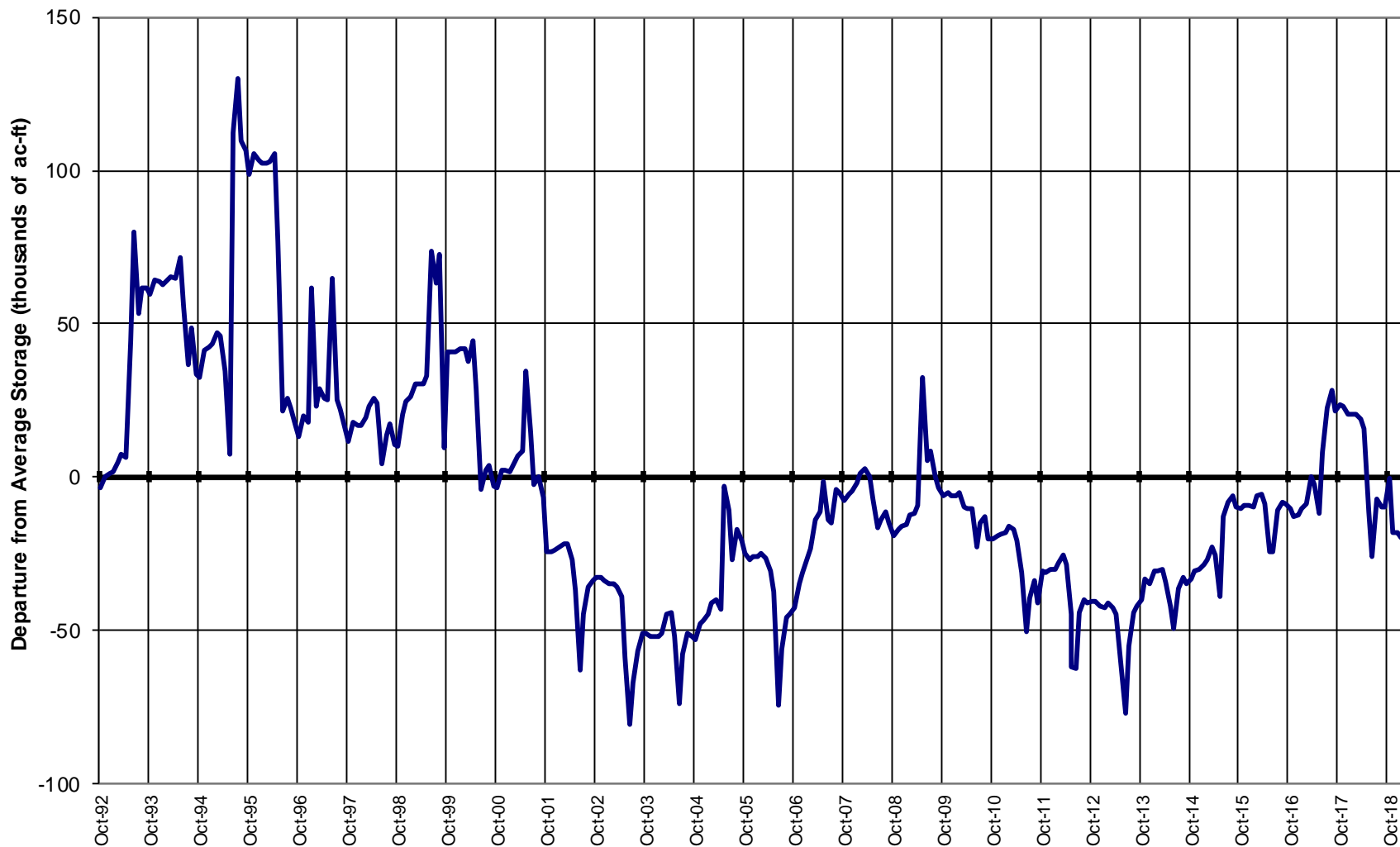
0 10 20 40 60 80 Miles

Reservoir Storage

■ Percent Average ■ Percent Capacity

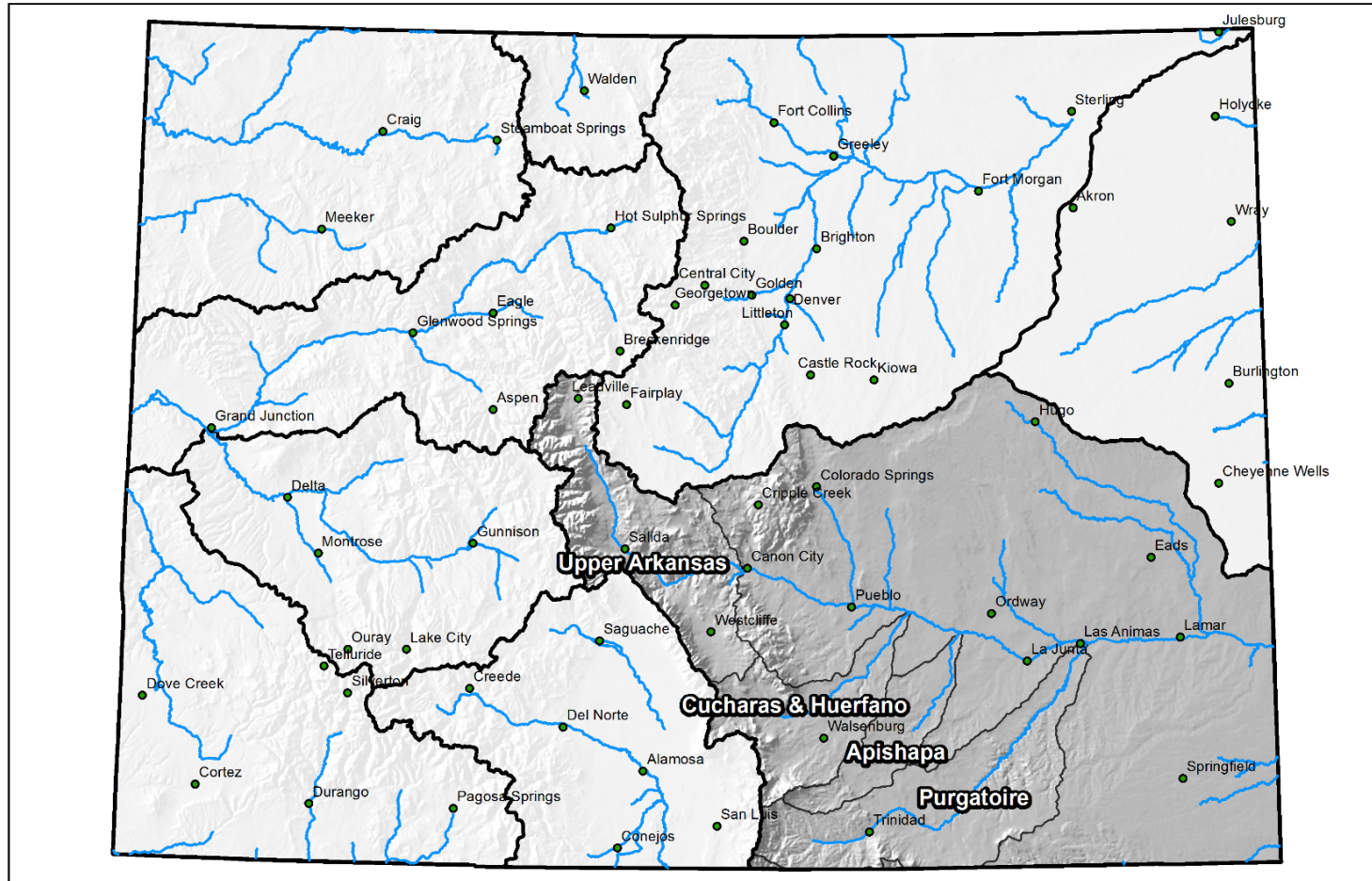


UPPER RIO GRANDE BASIN Reservoir Storage Departure from Average



Major Basin Summary

Arkansas River Basin

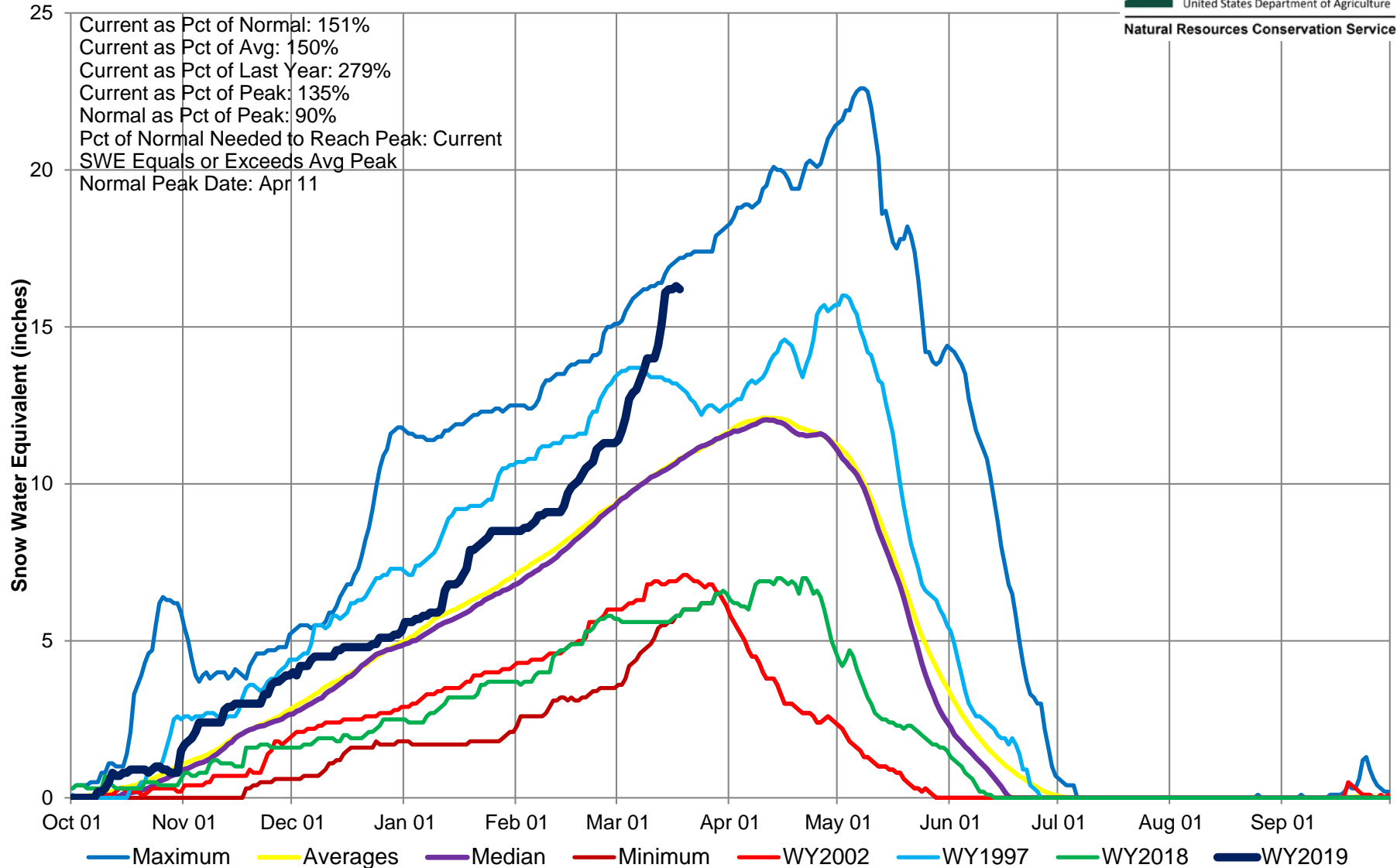


0 25 50 100 150 200 Miles



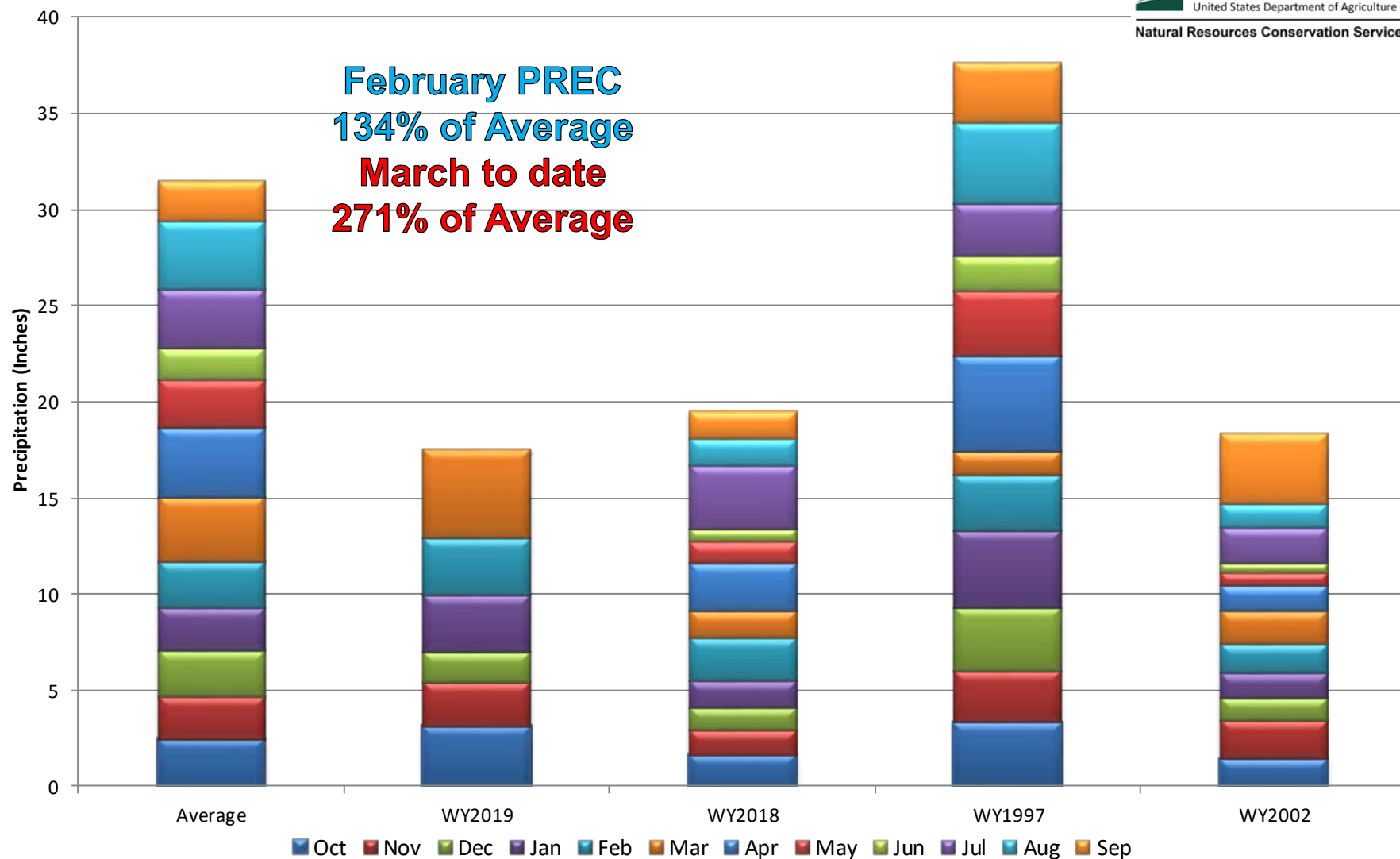
Arkansas River Basin High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



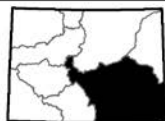
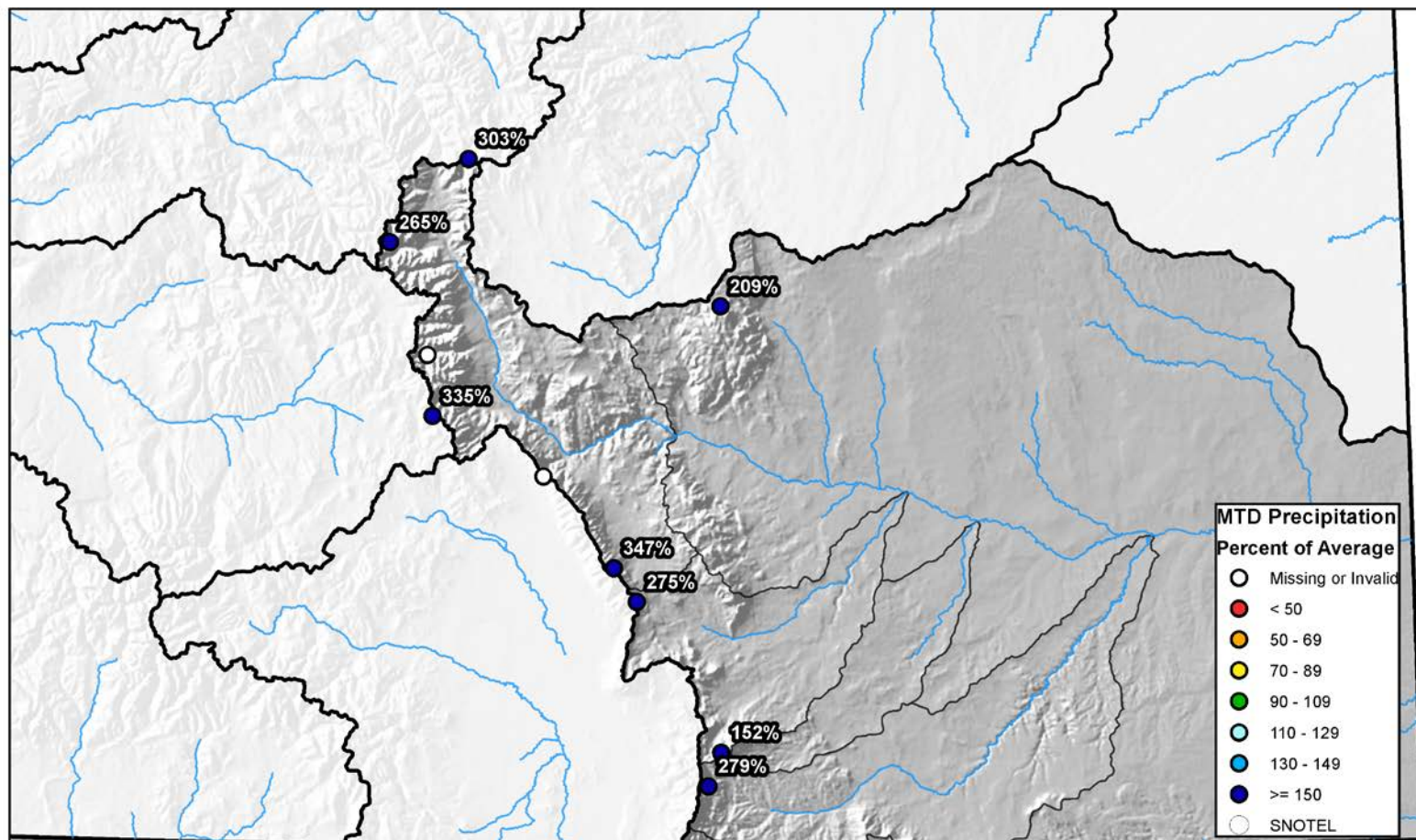
Arkansas River Basin High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



Arkansas River Basin Month to Date Precipitation Summary

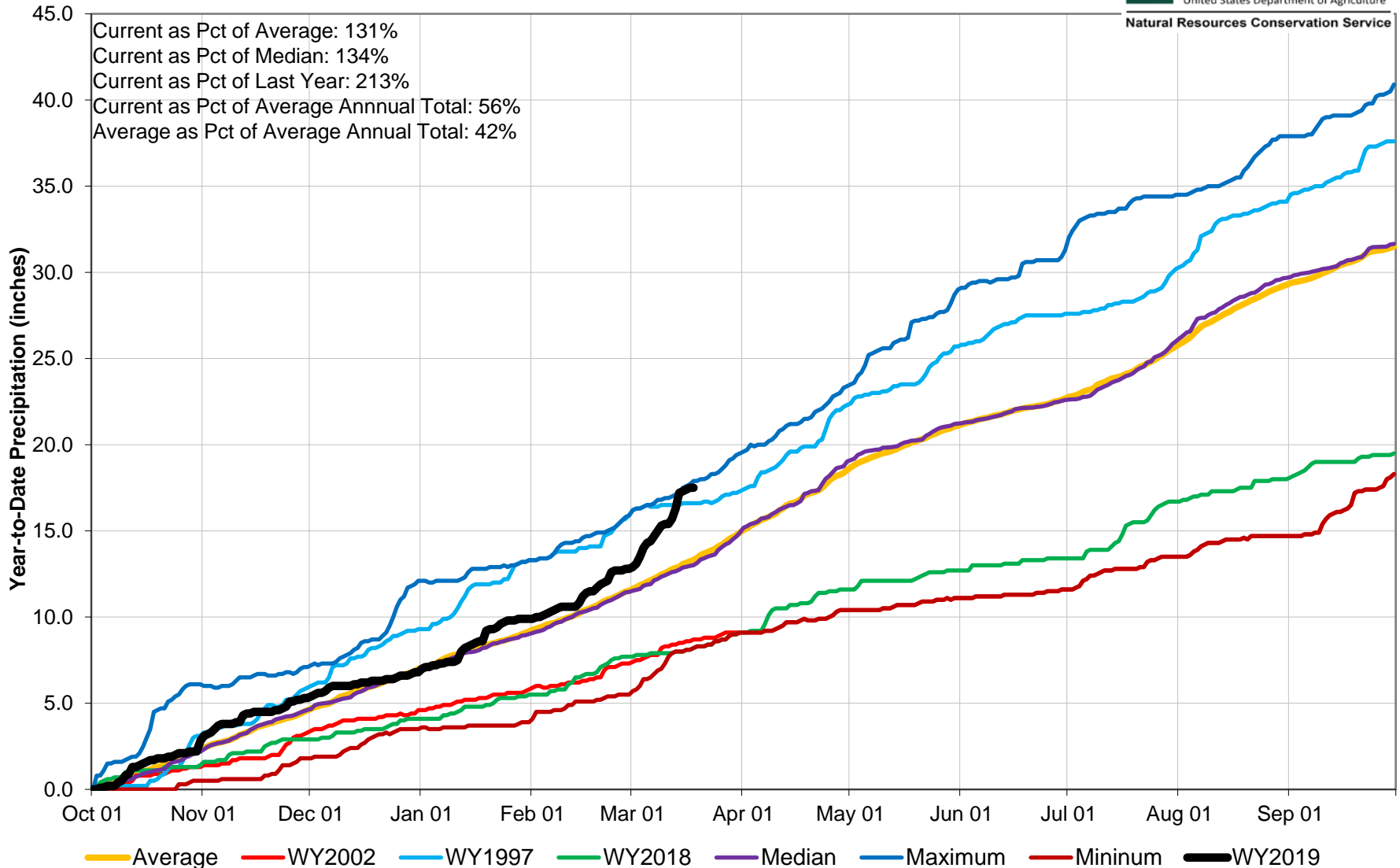
Current as of Mar 18, 2019



0 10 20 40 60 80 Miles

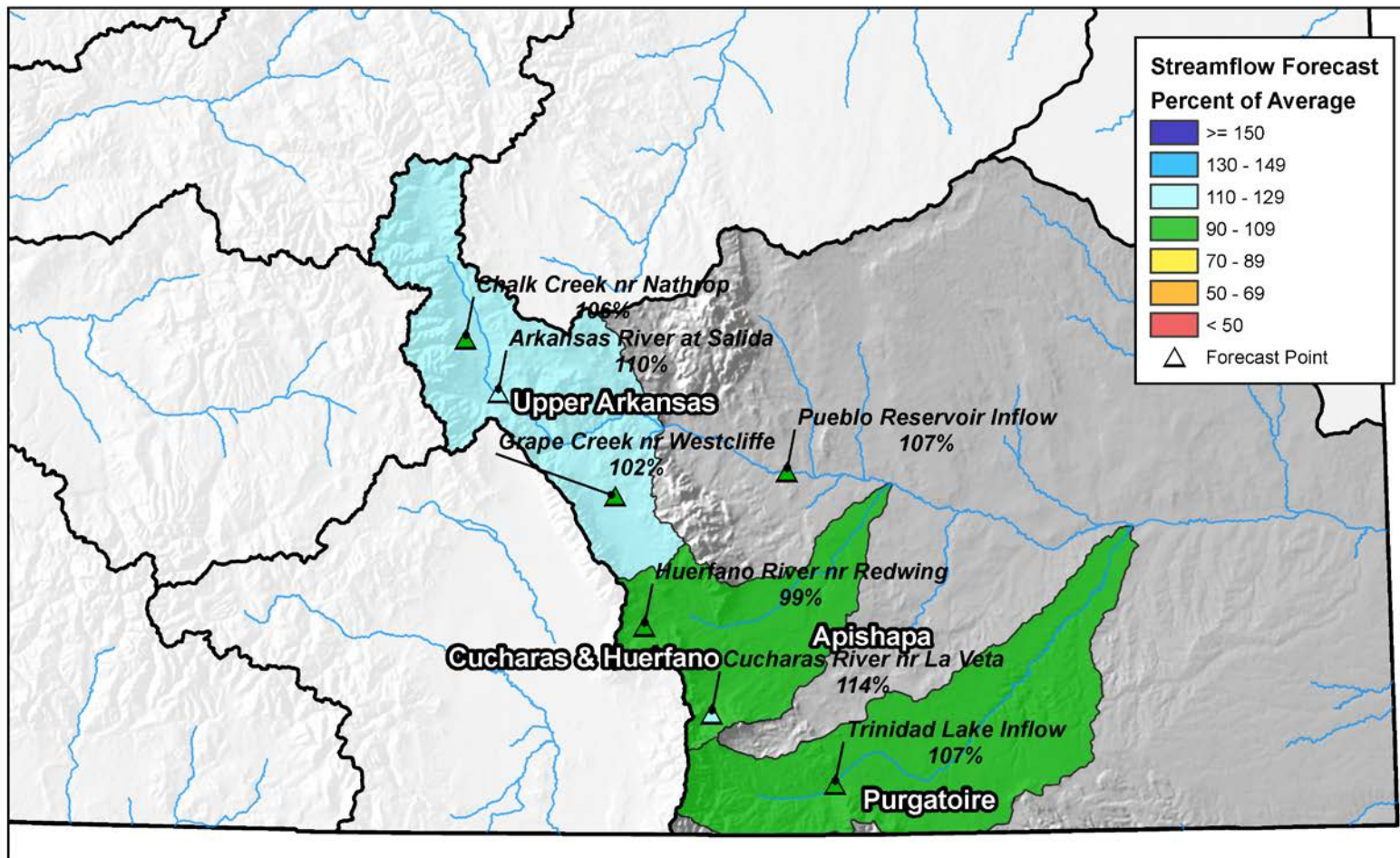
Arkansas River Basin High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



Arkansas River Basin Streamflow Forecast Summary

March 1, 2019

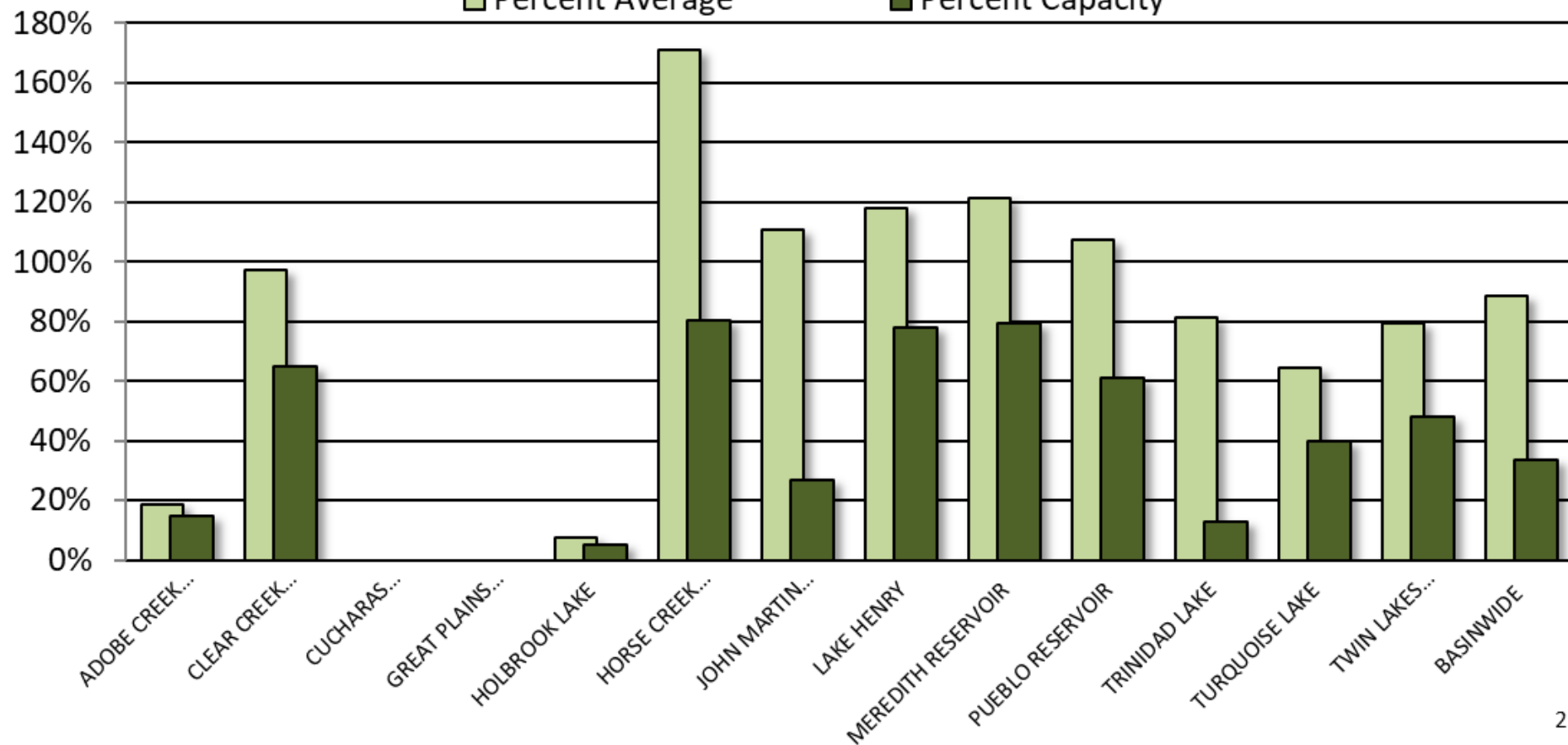


0 10 20 40 60 80 Miles

Reservoir Storage

■ Percent Average

■ Percent Capacity

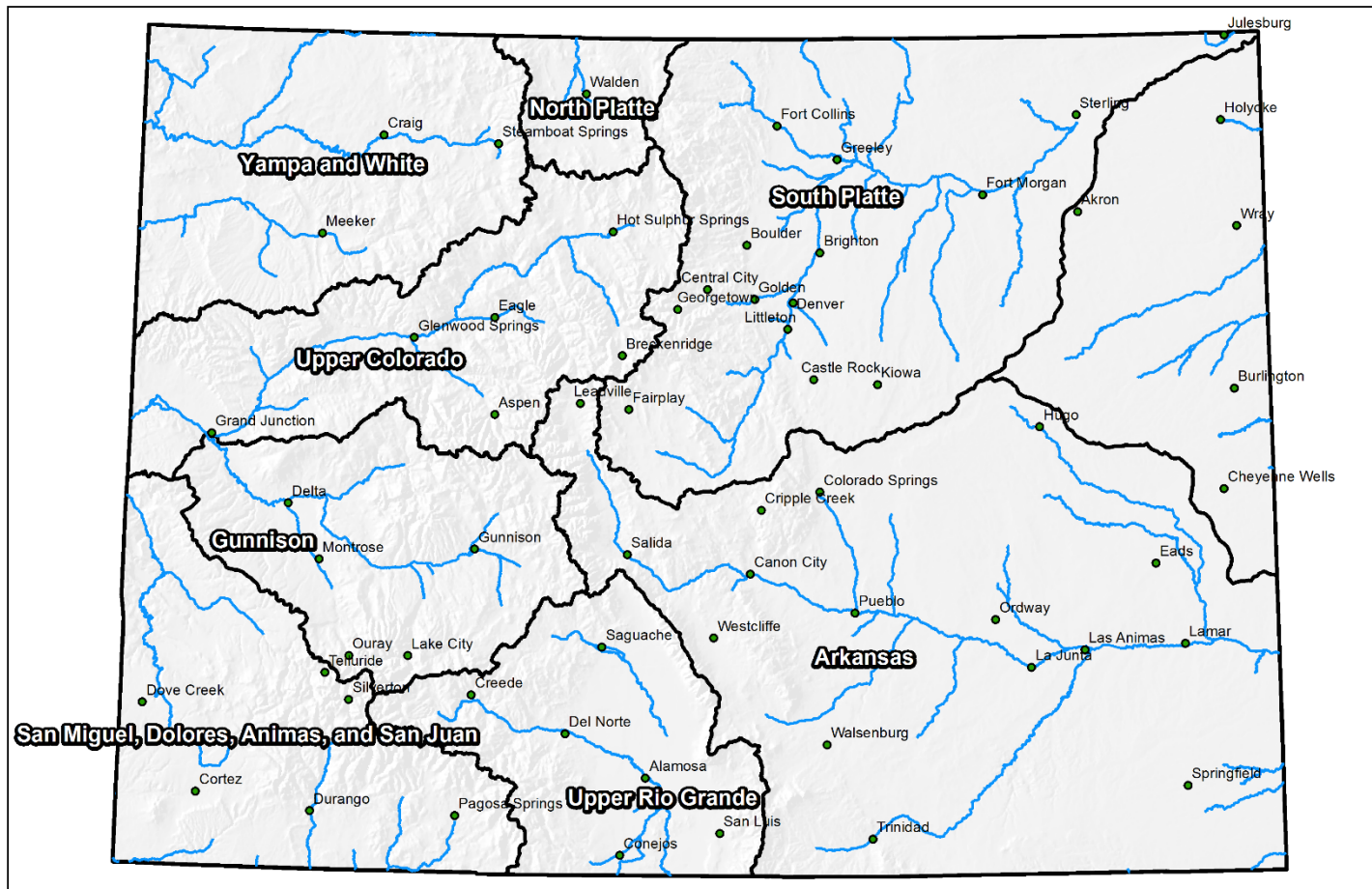


ARKANSAS RIVER BASIN Reservoir Storage Departure from Average



Colorado Statewide Summary

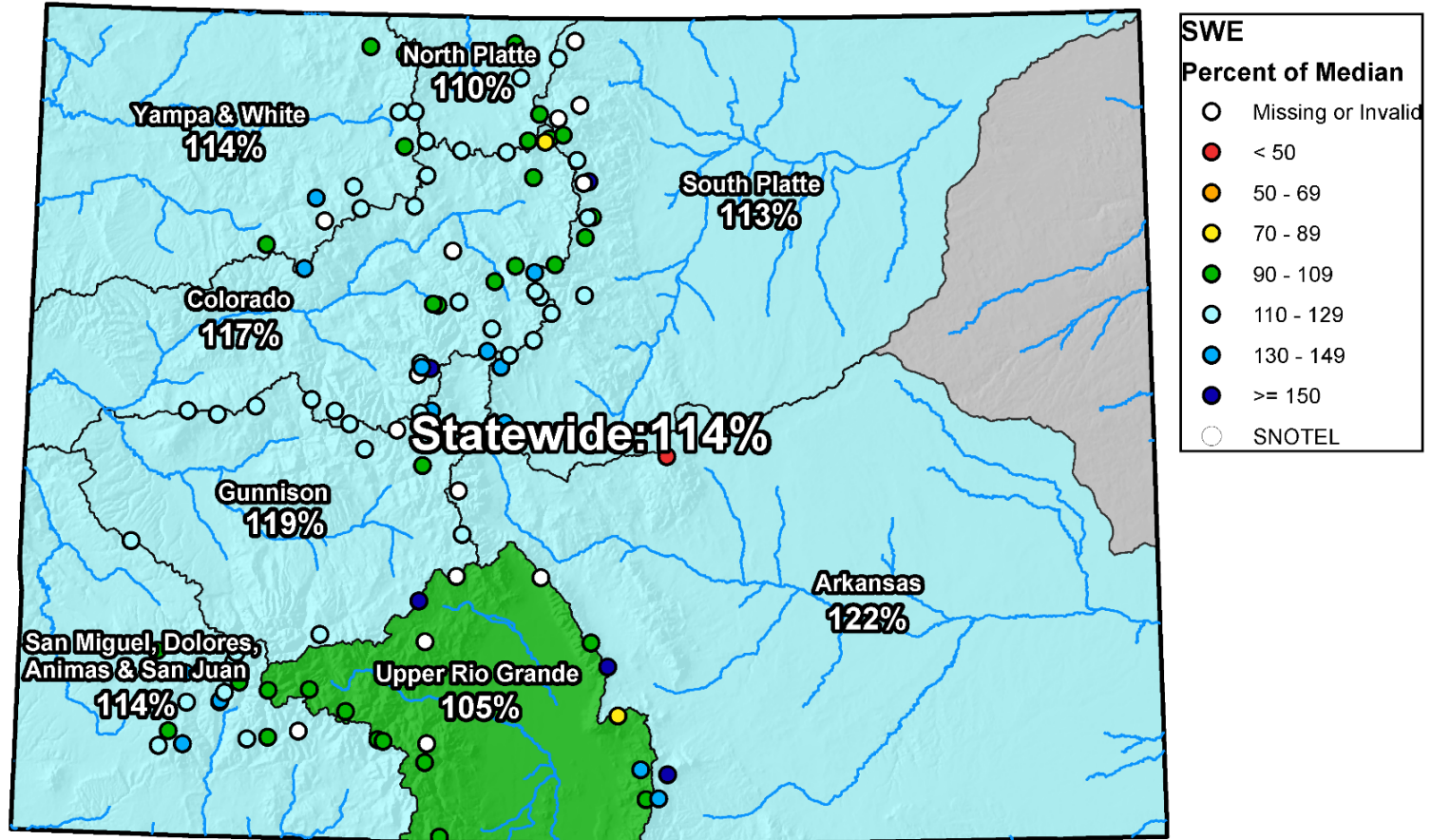
Colorado Major Basins



0 25 50 100 150 200 Miles

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

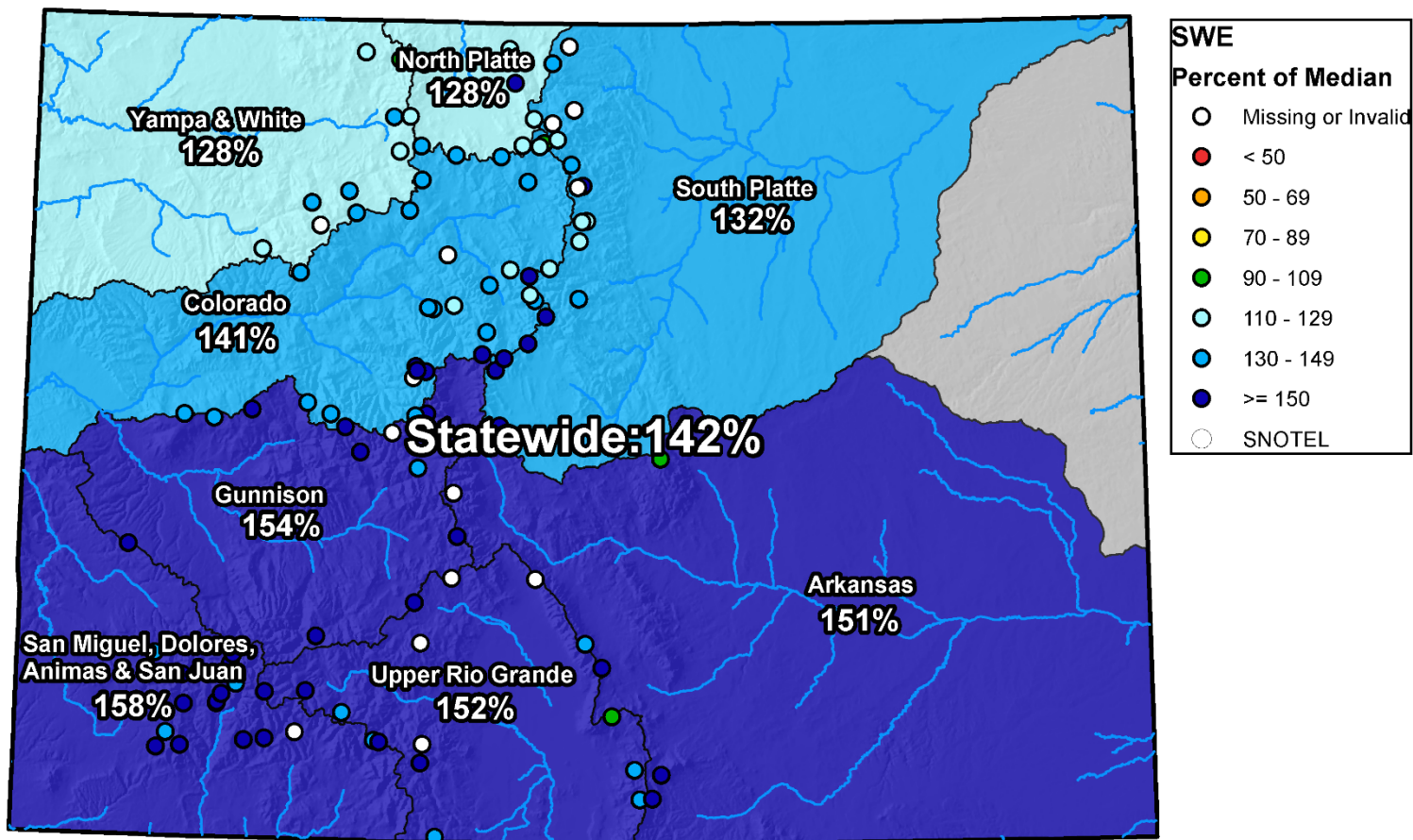
Current as of Feb 15, 2019



0 25 50 100 150 200 Miles

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

Current as of Mar 18, 2019



0 25 50 100 150 200 Miles

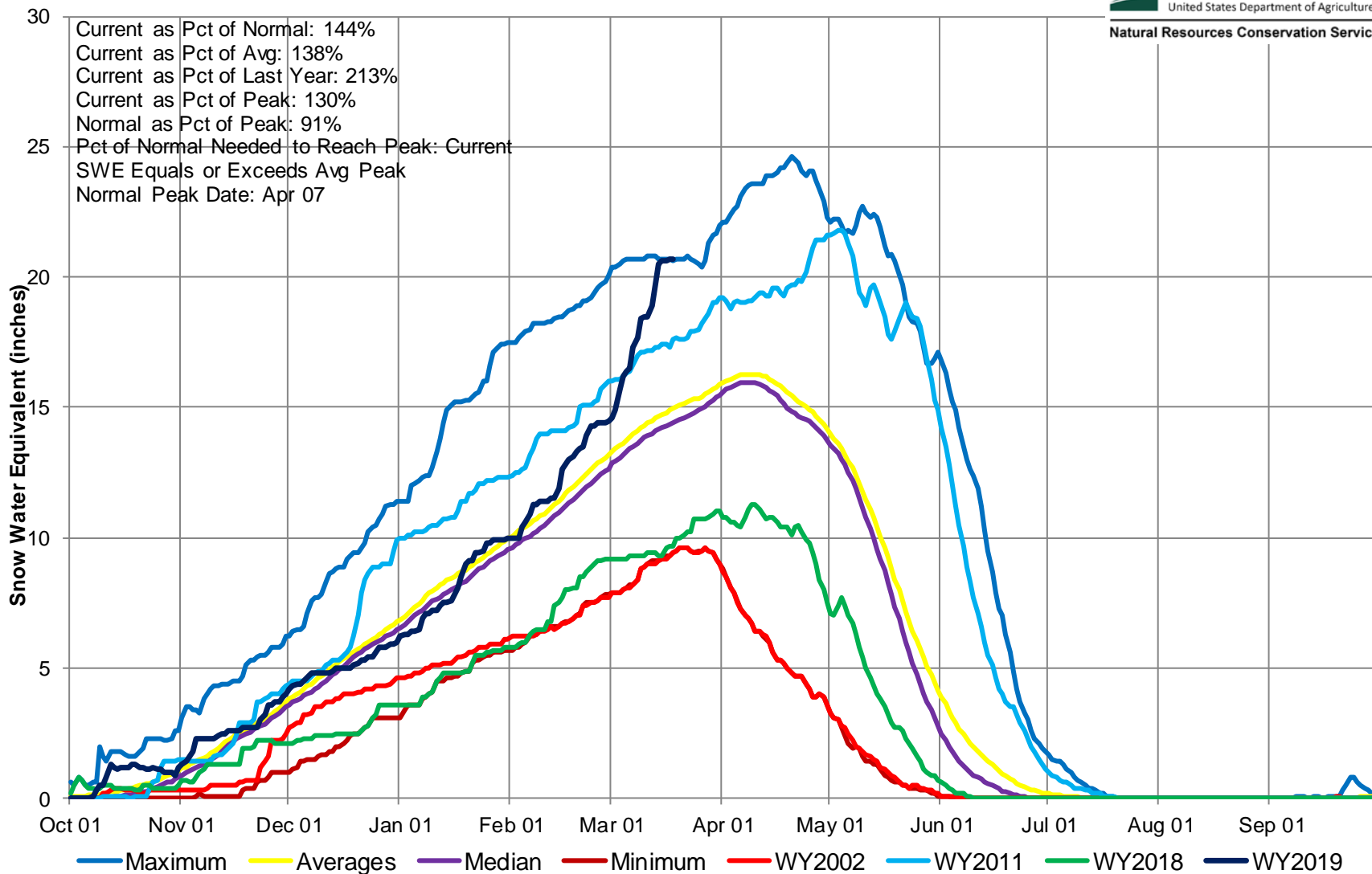
Colorado Statewide High/Low Snowpack Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



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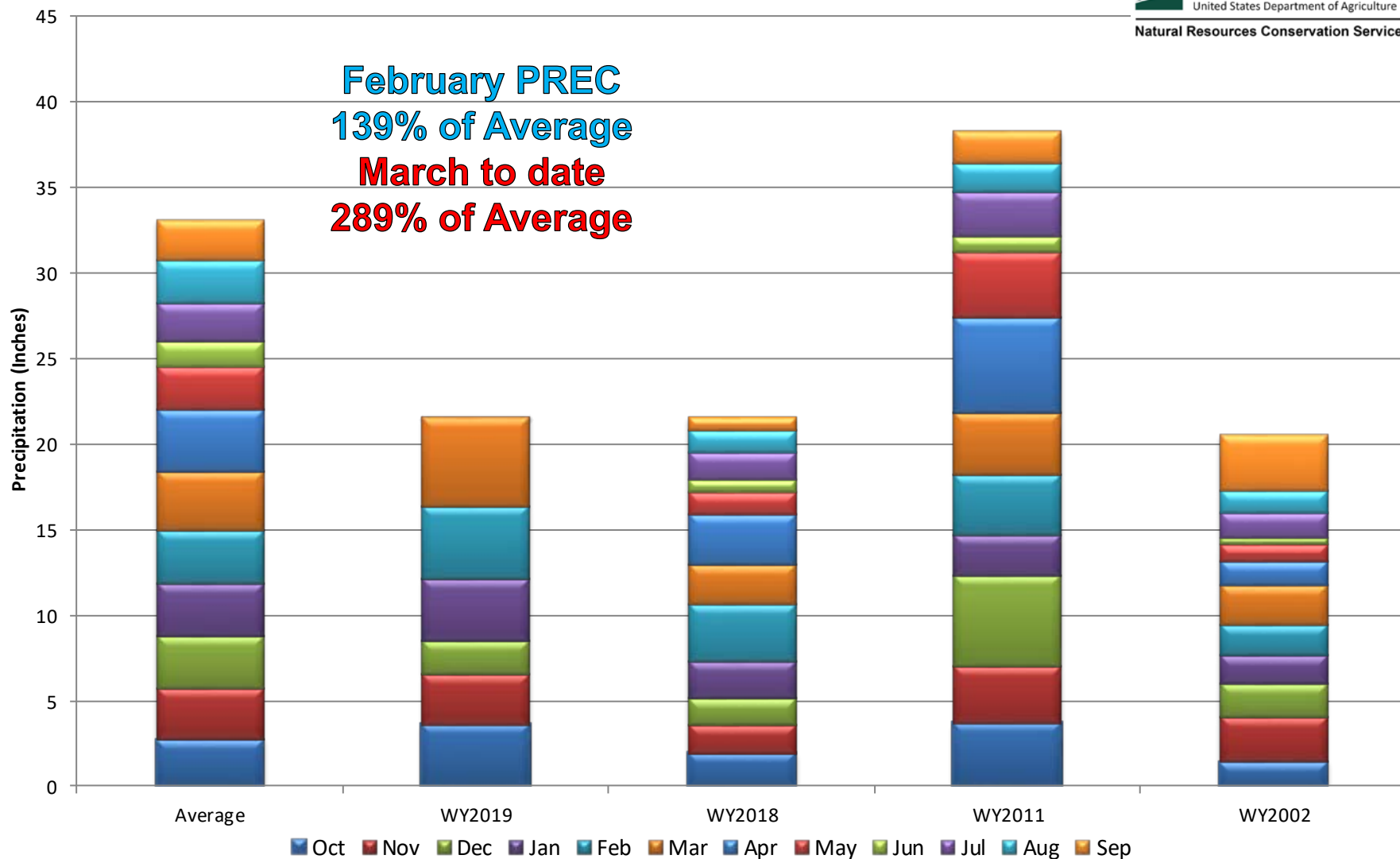
Colorado Statewide High/Low Monthly Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



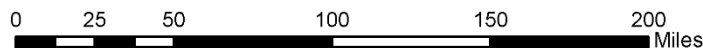
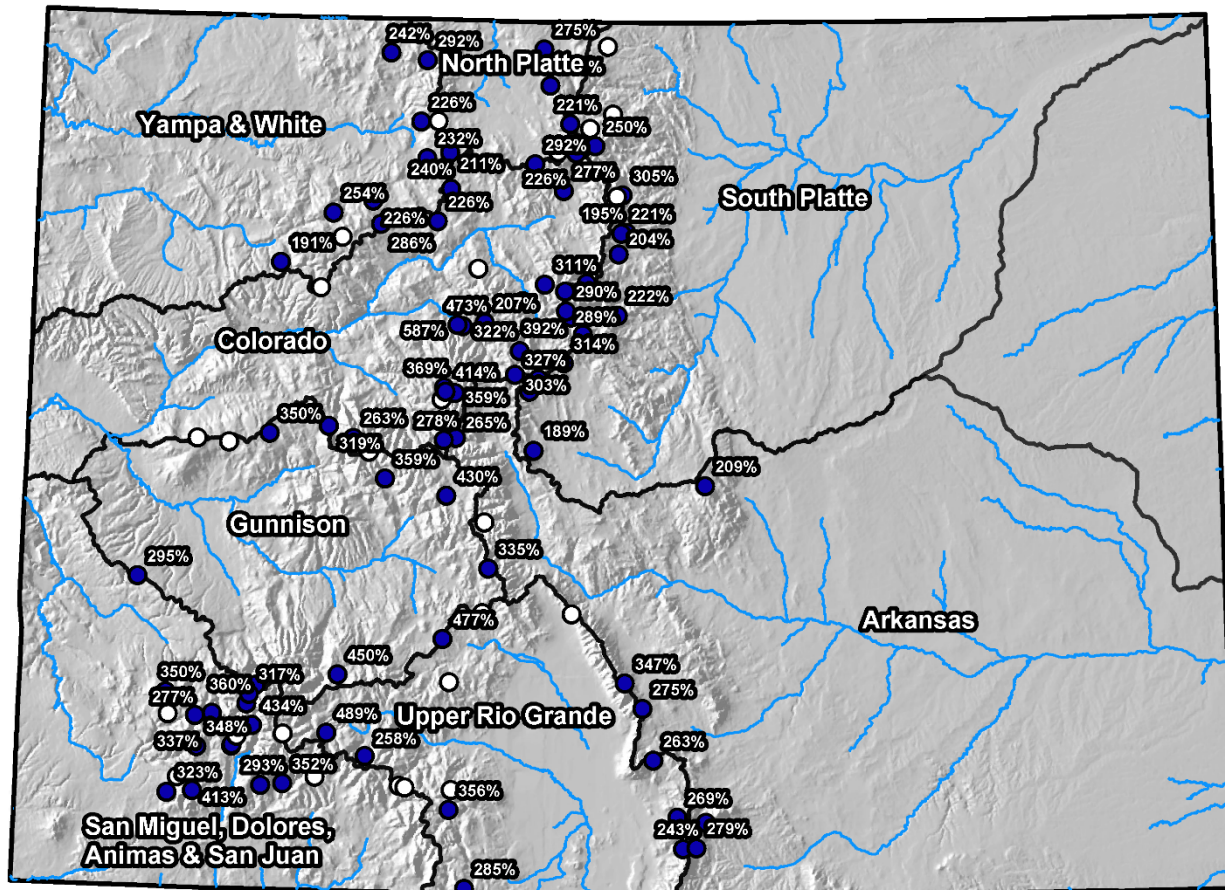
United States Department of Agriculture

Natural Resources Conservation Service



Colorado SNOTEL Month-to-Date Precipitation

Current as of Mar 18, 2019



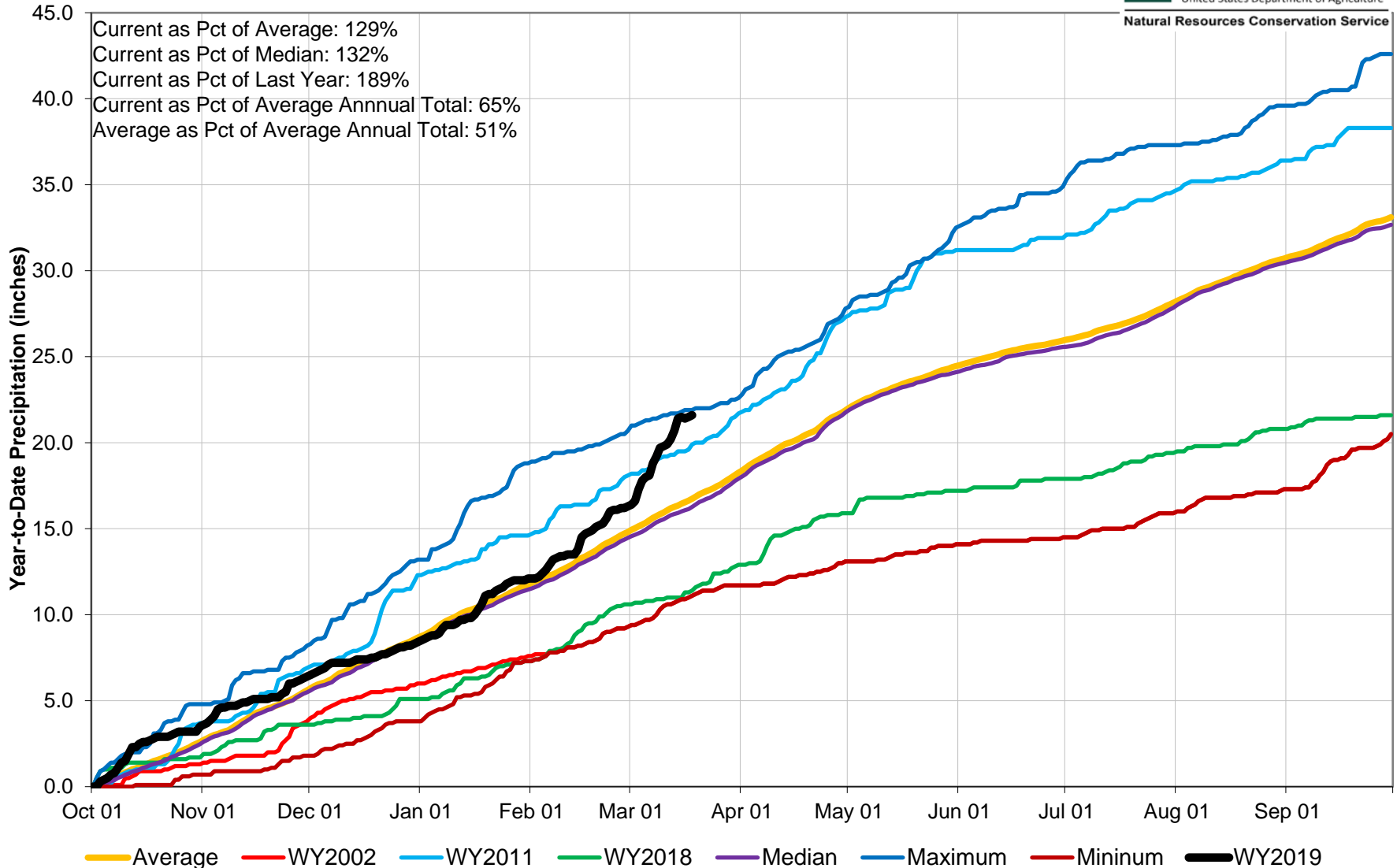
Colorado Statewide High/Low Year-to-Date Precipitation Summary

Based on Provisional SNOTEL data as of Mar 18, 2019



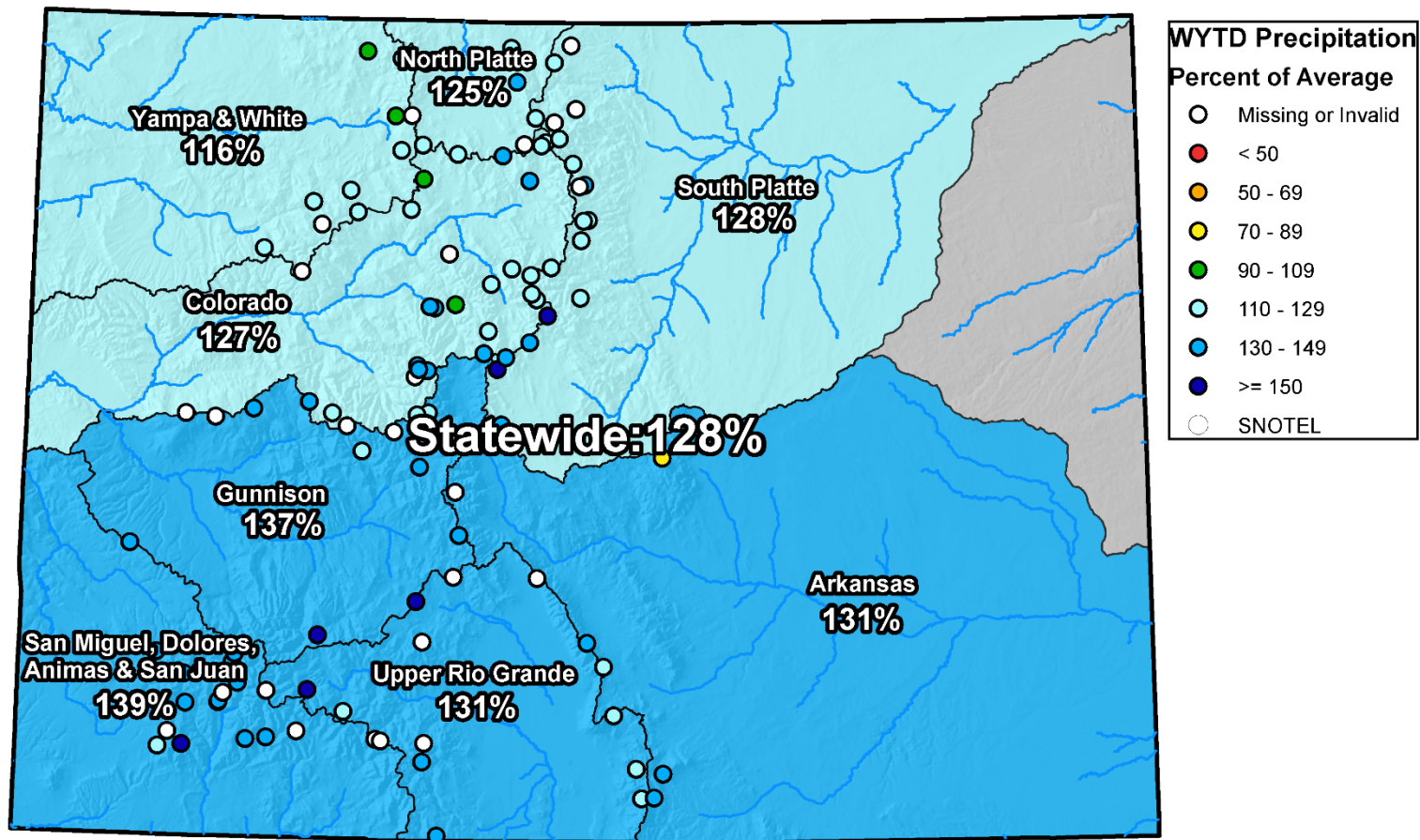
United States Department of Agriculture

Natural Resources Conservation Service



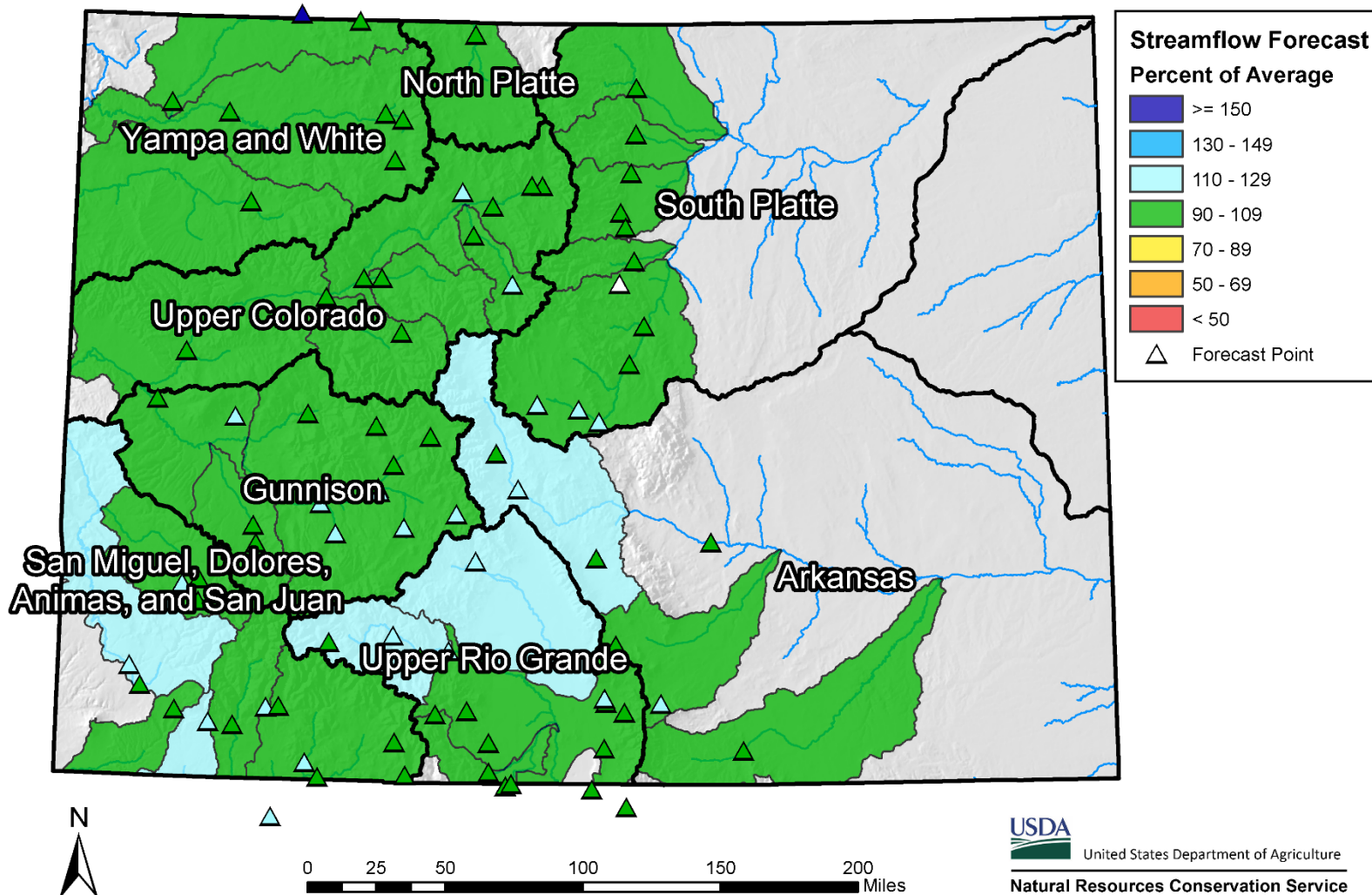
Colorado SNOTEL Water Year to Date Precipitation

Current as of Mar 18, 2019



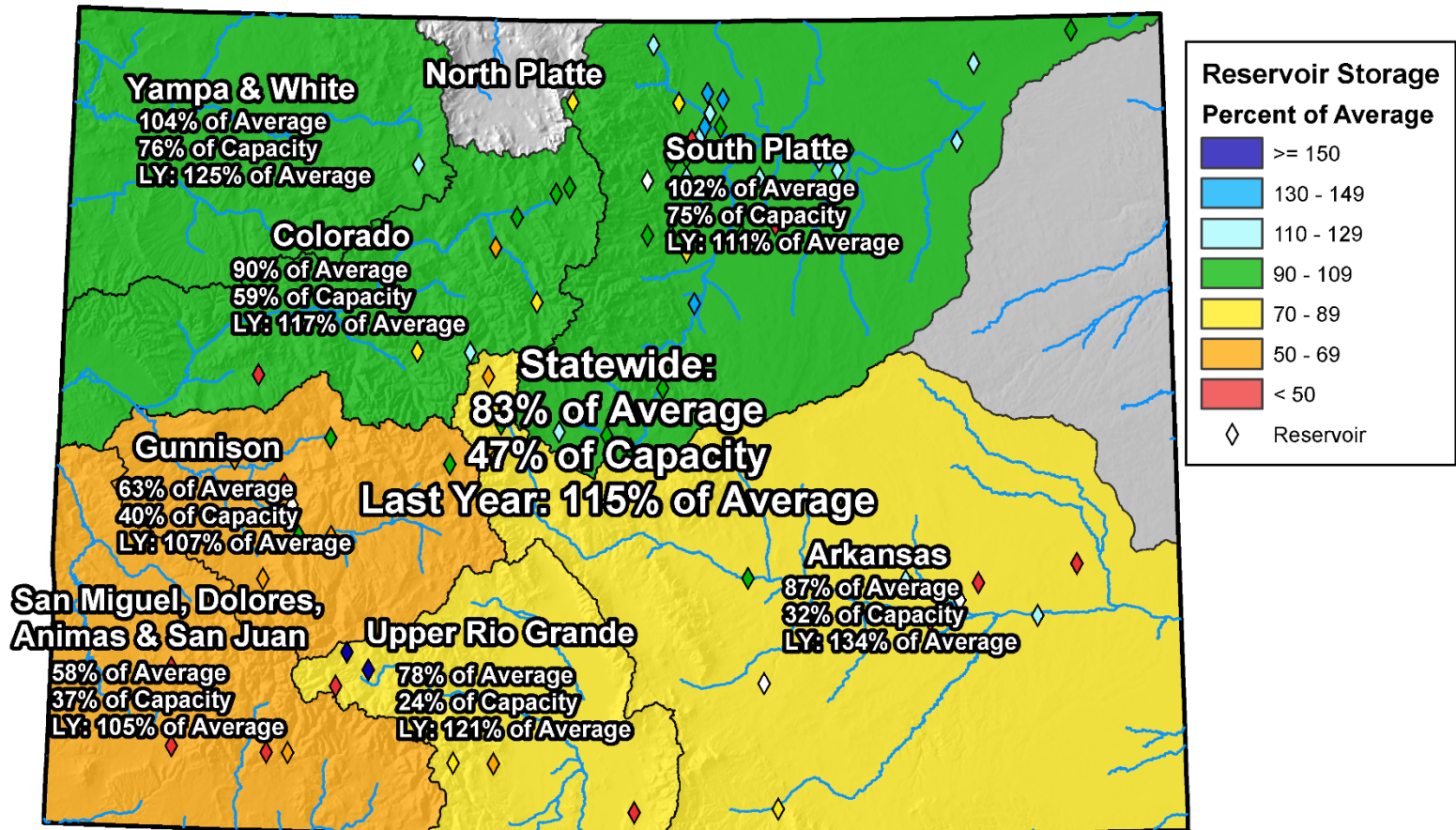
0 25 50 100 150 200 Miles

Colorado Streamflow Forecasts Summary March 1, 2019



Colorado Monthly Reservoir Storage Summary

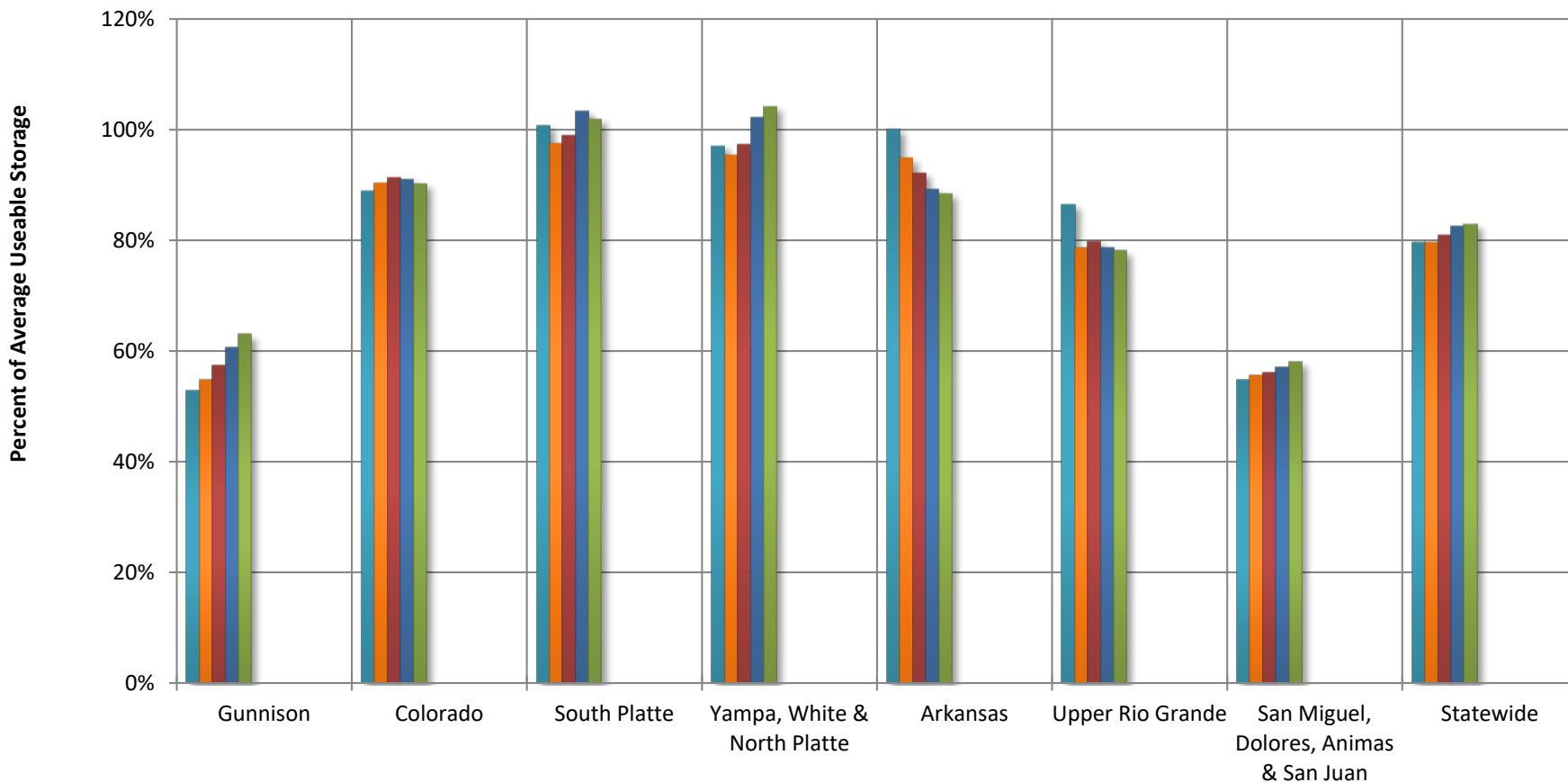
End of February 2019



0 25 50 100 150 200 Miles

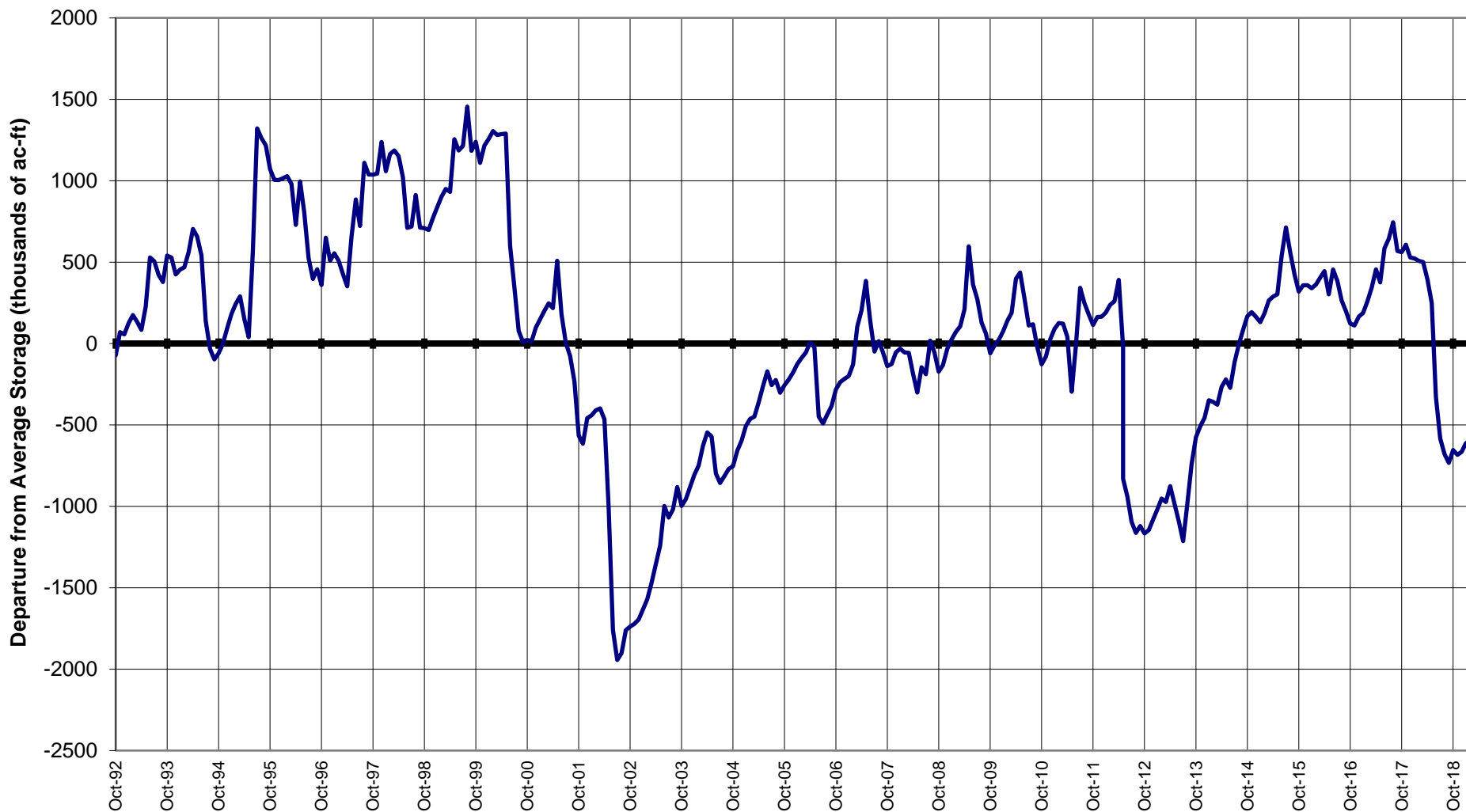
Colorado Reservoir Storage

Oct-18 Nov-18 Dec-18 Jan-19 Feb-19 Mar-19
 Apr-19 May-19 Jun-19 Jul-19 Aug-19 Sep-19

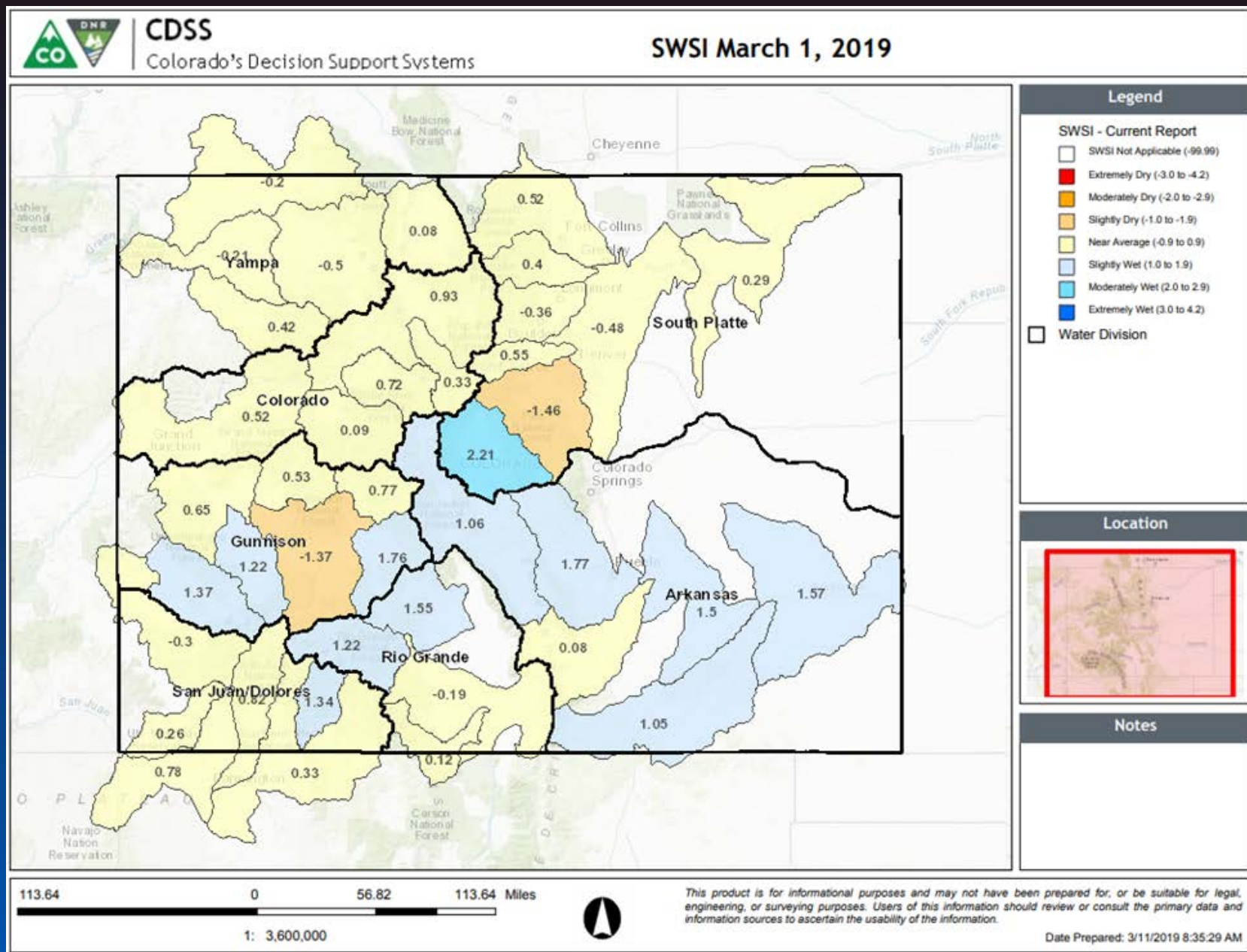




COLORADO STATEWIDE Reservoir Storage Departure from Average



March 1, 2019 SWSI



Summary

•Precipitation Statewide

- March to Date precipitation at 289% of average
 - Combined San Miguel, Dolores, Animas & San Juan basins - 355% of average
- Water Year to Date precipitation at 128% of average

•Snowpack

- Statewide snowpack now @ 142% median
- SMDASJ best snowpack in state w/ 158% median
- Followed by Gunn @ 154%
- Snowpack is not currently the best in the period of record but is one of the best in most southern basins

•Statewide reservoir storage - 83% norm, no change

•Feb 1 Streamflow Forecasts looked good last month statewide.
Based on current conditions will certainly increase statewide



United States Department of Agriculture

Colorado Snow Surveys

Water Availability Task Force Meeting

March 19th, 2019

NRCS Snow Survey and Water Supply Forecasting Program

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



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