Water Availability Task Force Meeting July 19th, 2022

NRCS Snow Survey and Water Supply Forecasting Program

Karl Wetlaufer

Hydrologist

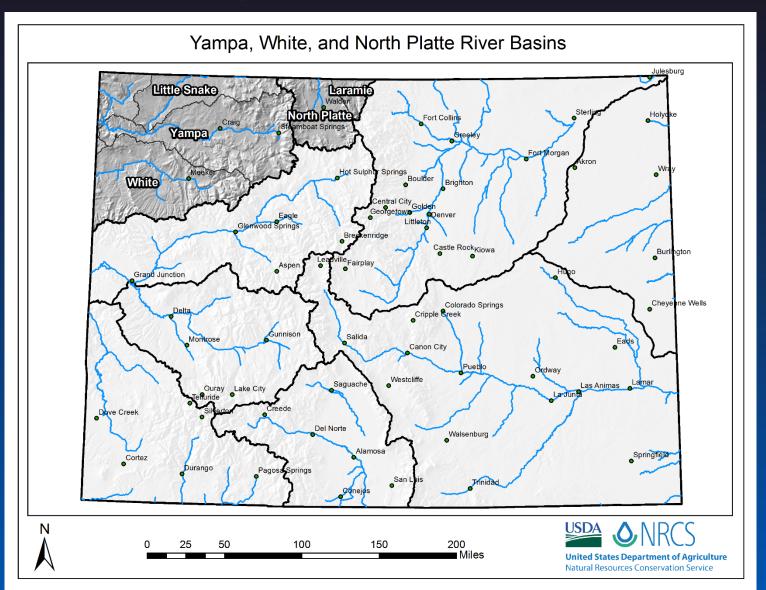
Karl.Wetlaufer@usda.gov

720-544-2853

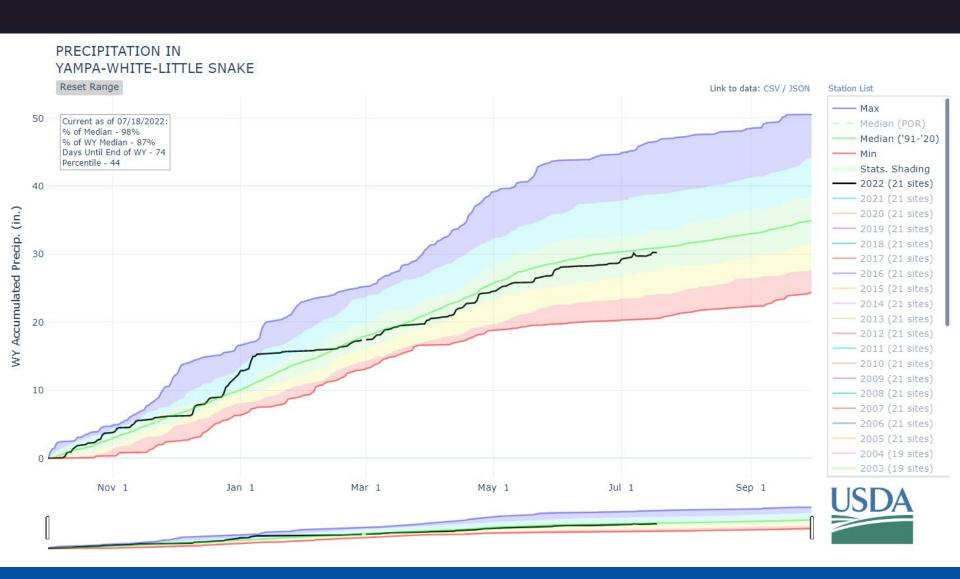
http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/



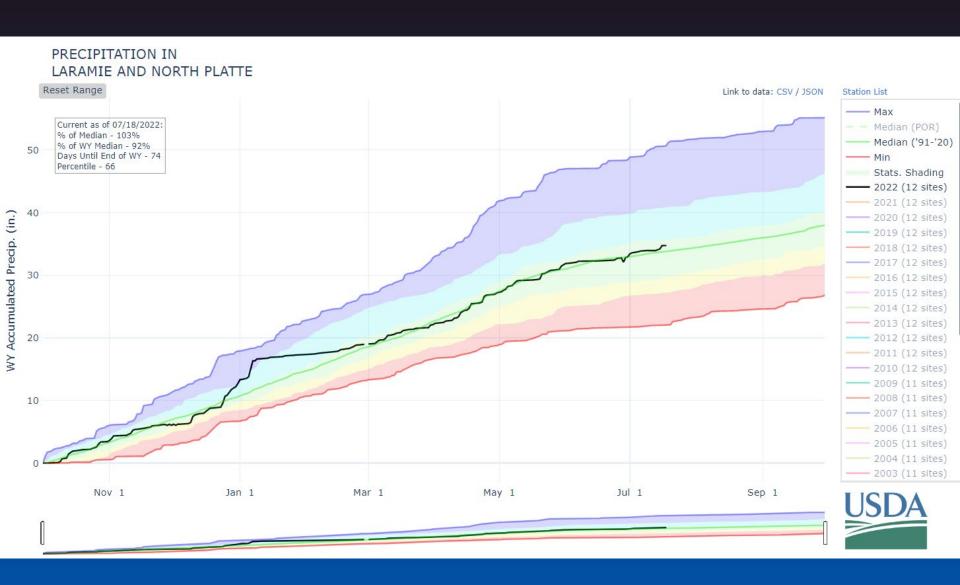
Major Basin Summary



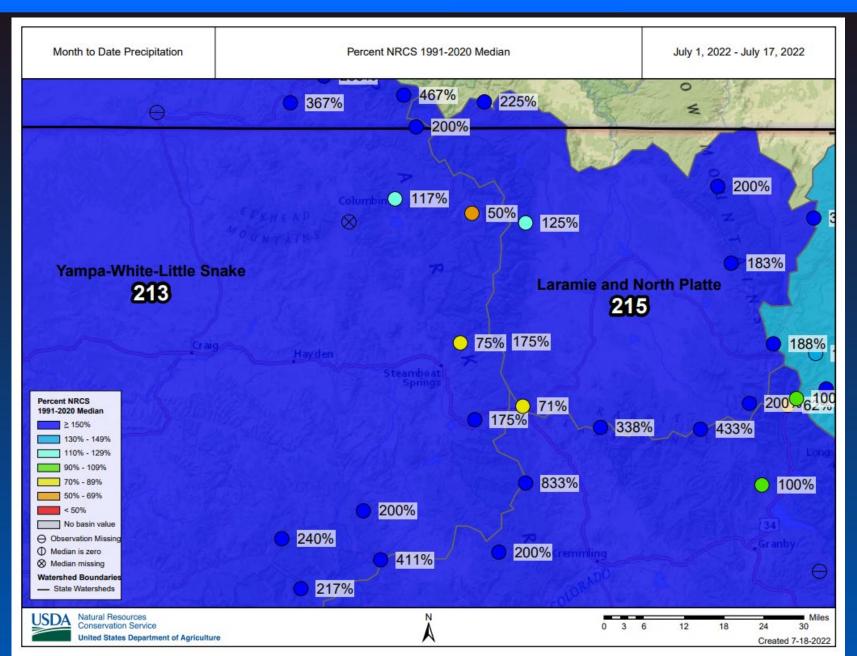








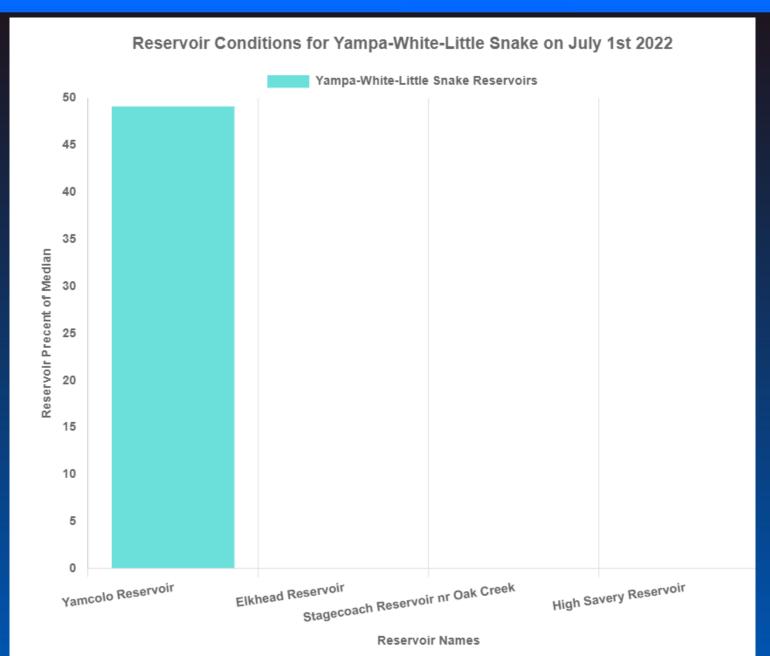






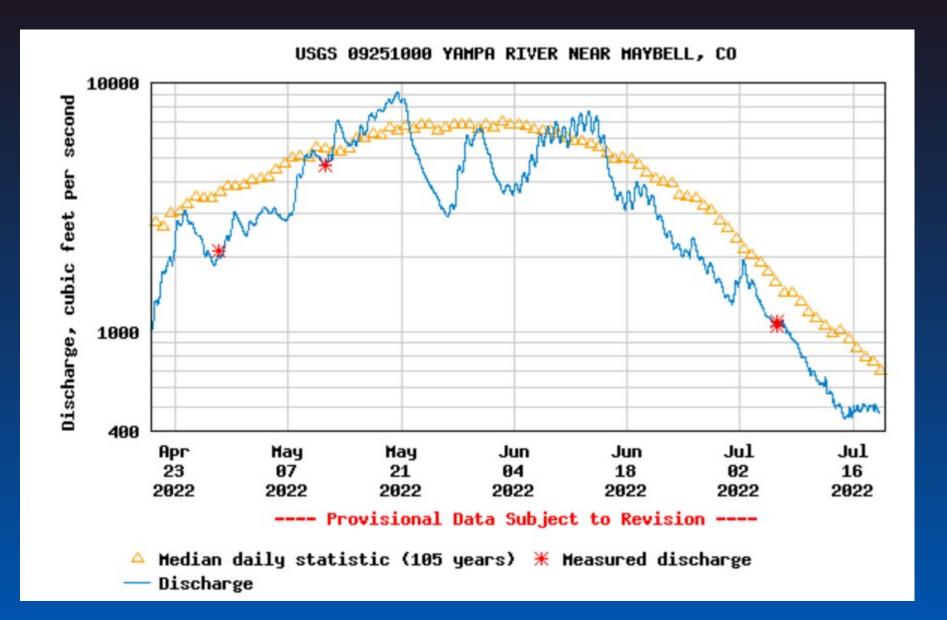






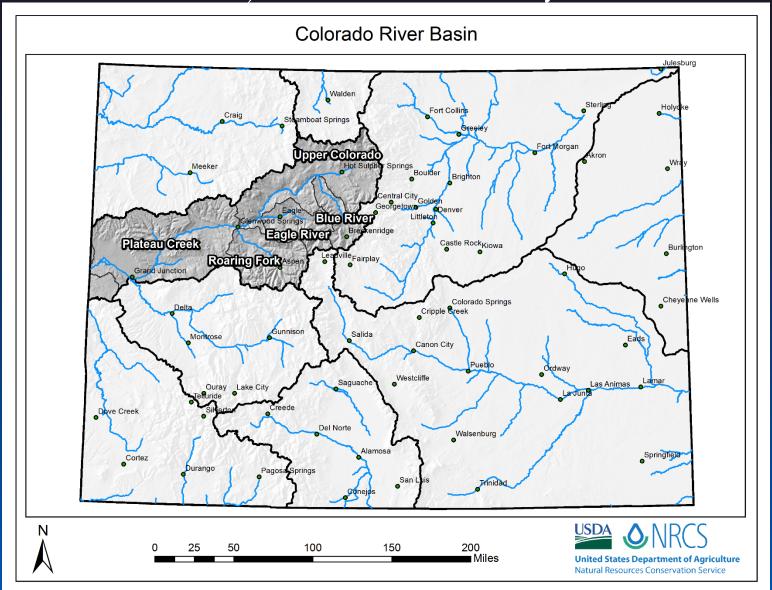




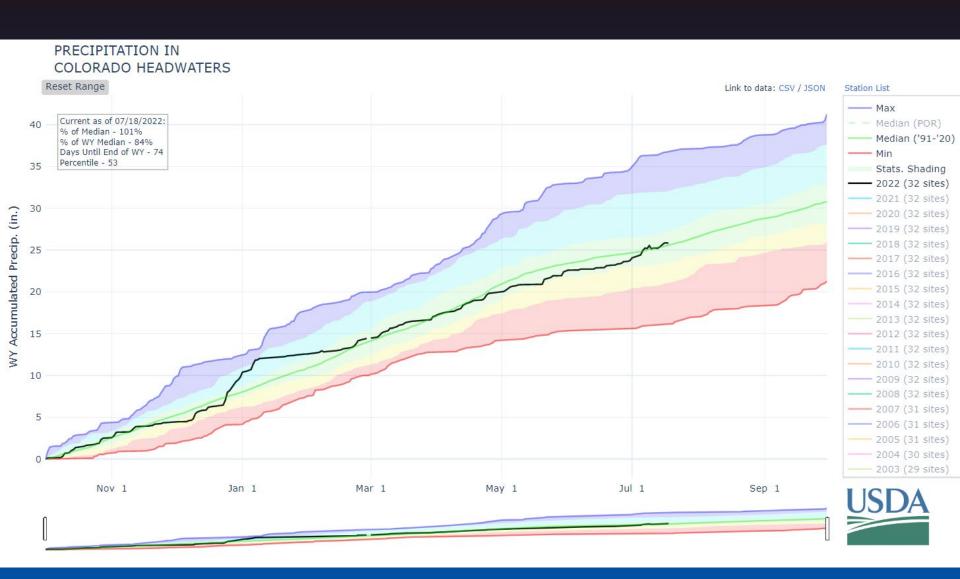




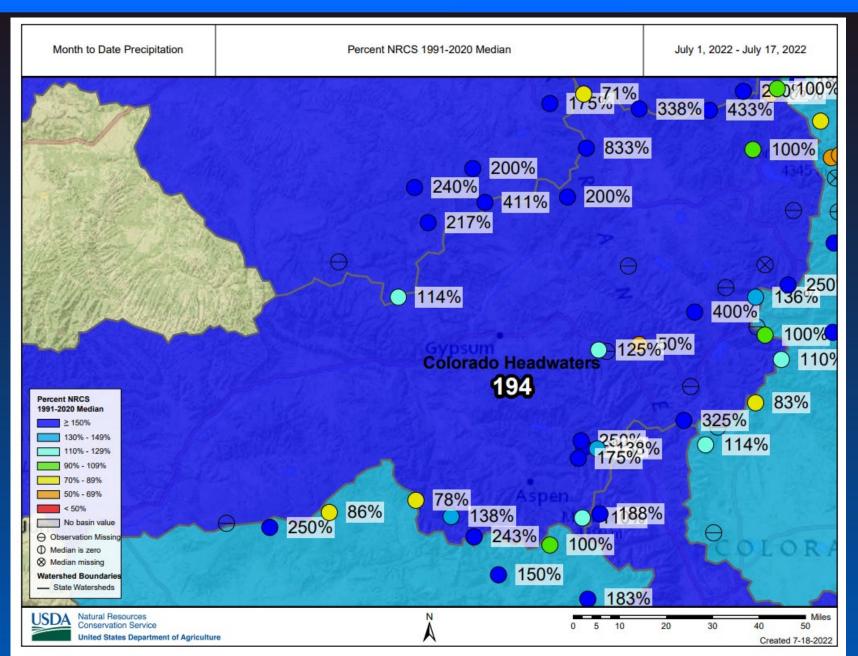
Major Basin Summary







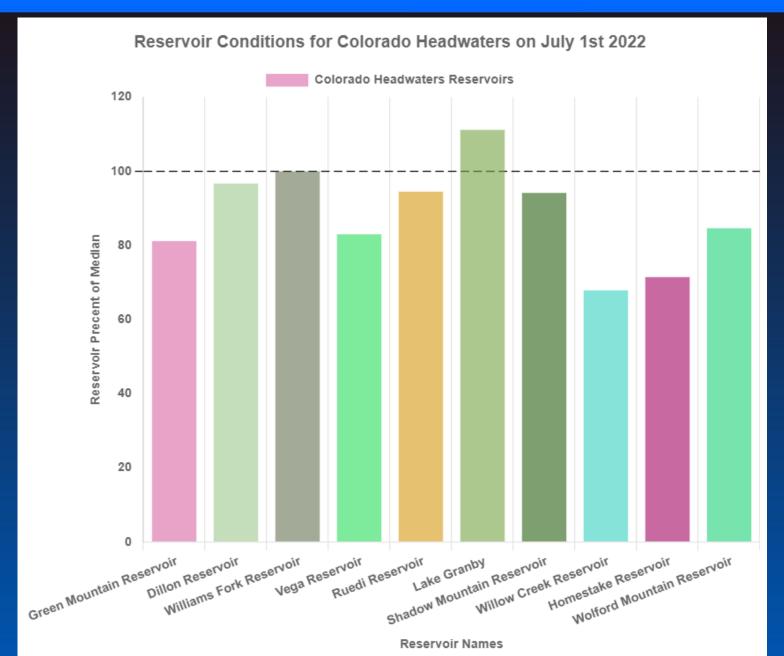






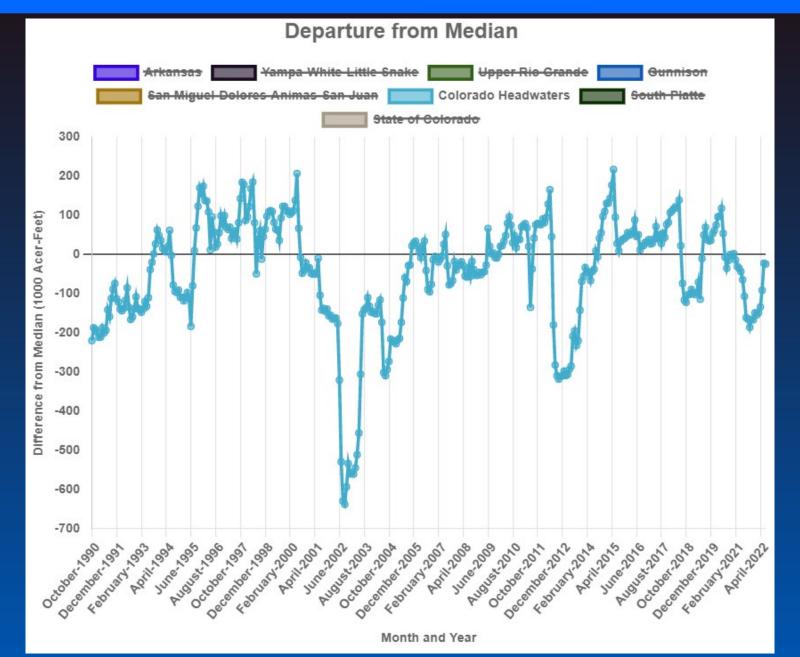






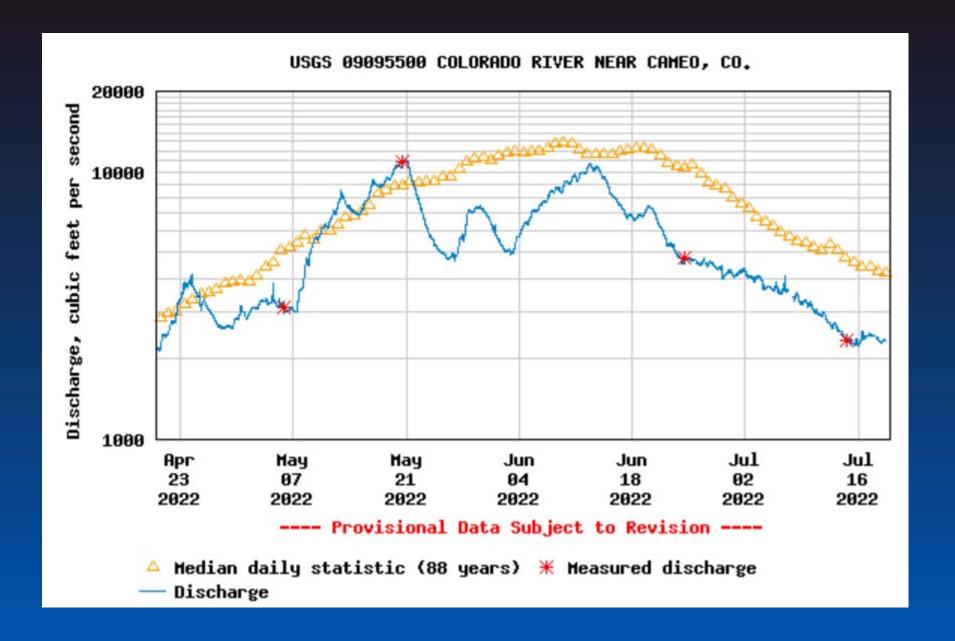








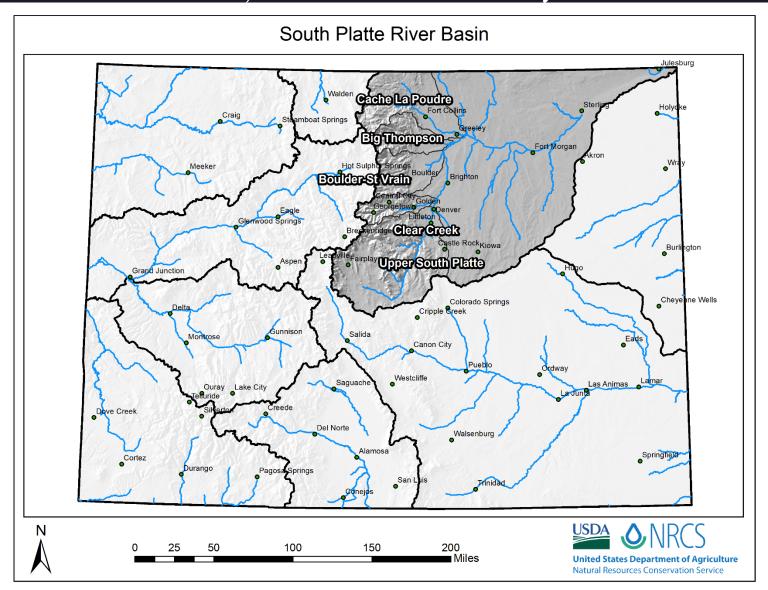




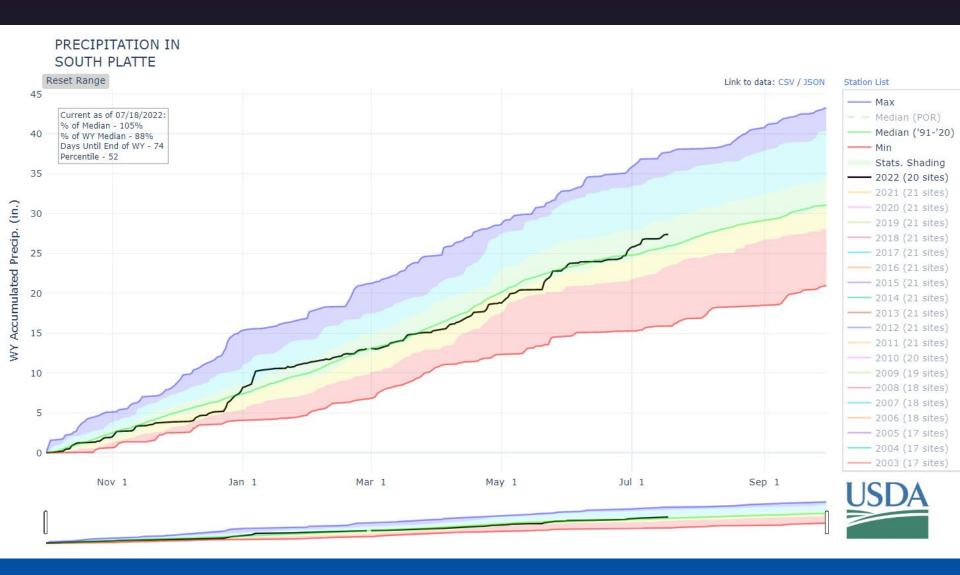




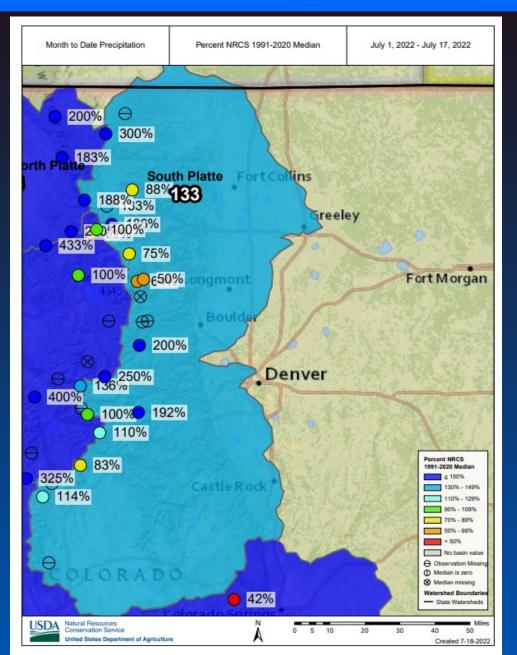
Major Basin Summary







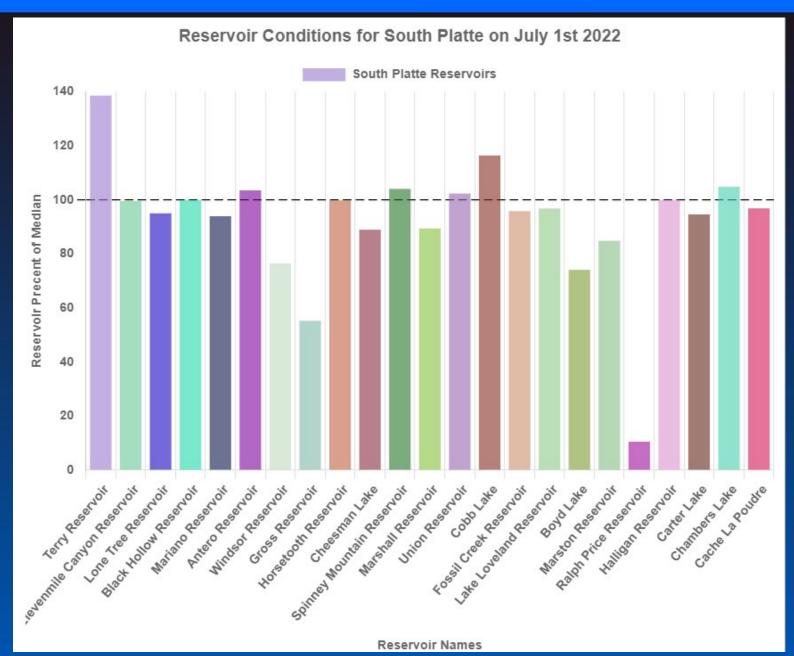






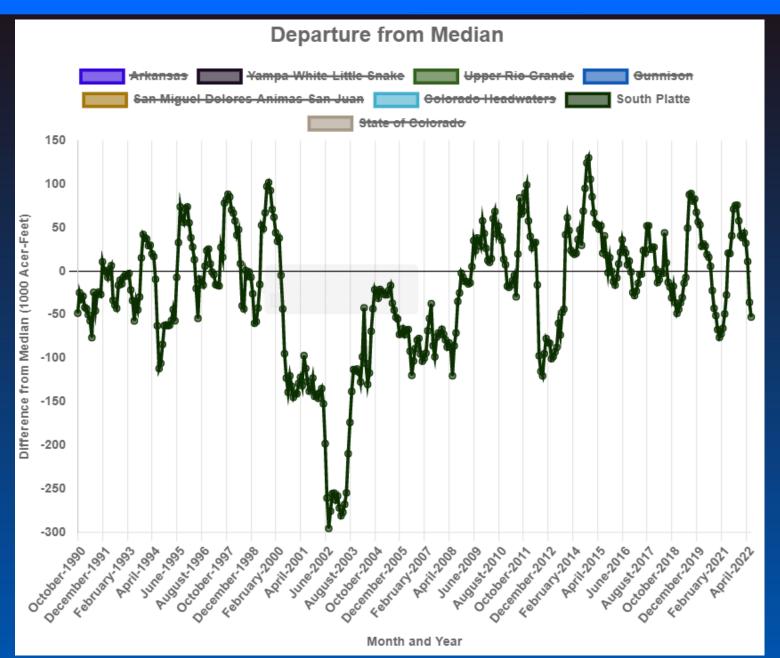






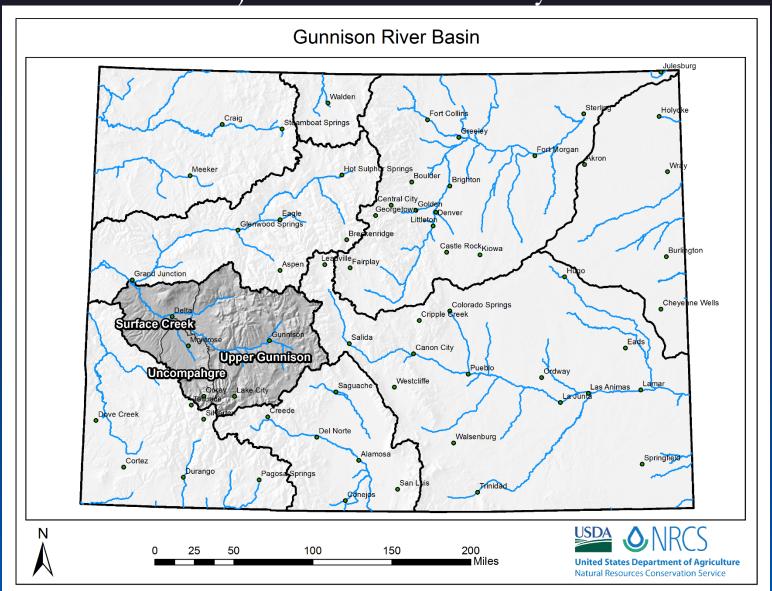




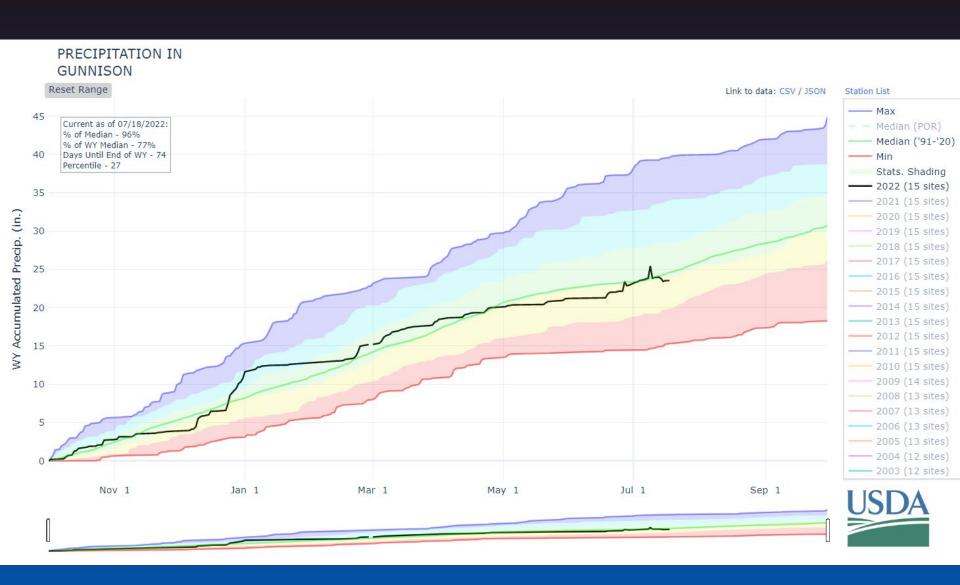




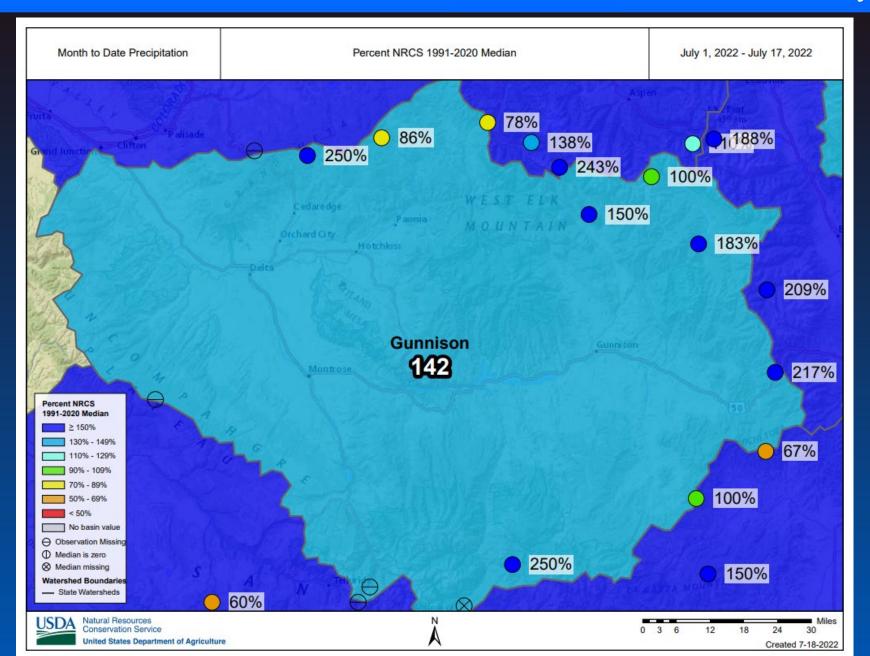
Major Basin Summary









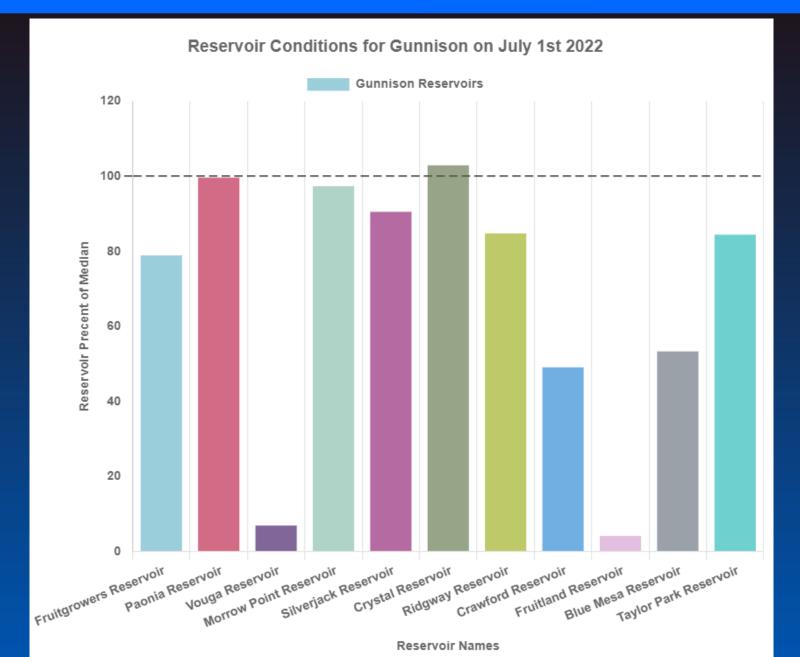








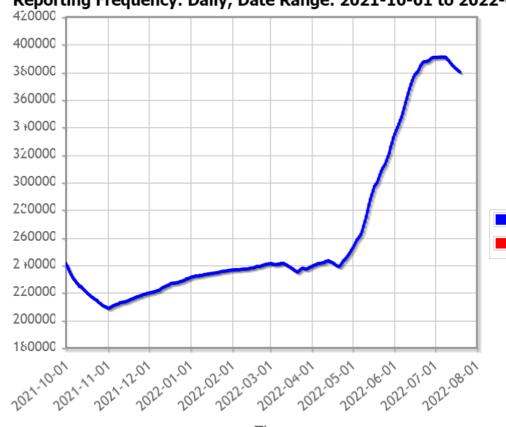










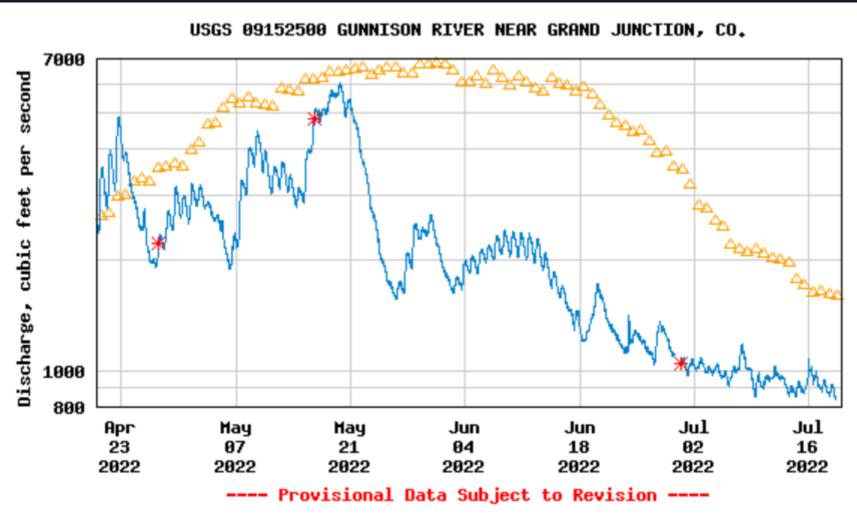


Reservoir Storage Volume (ac ft) Start of Day Values

Median Reservoir Storage Volume (1991-2020) (ac ft) Start of Day Values





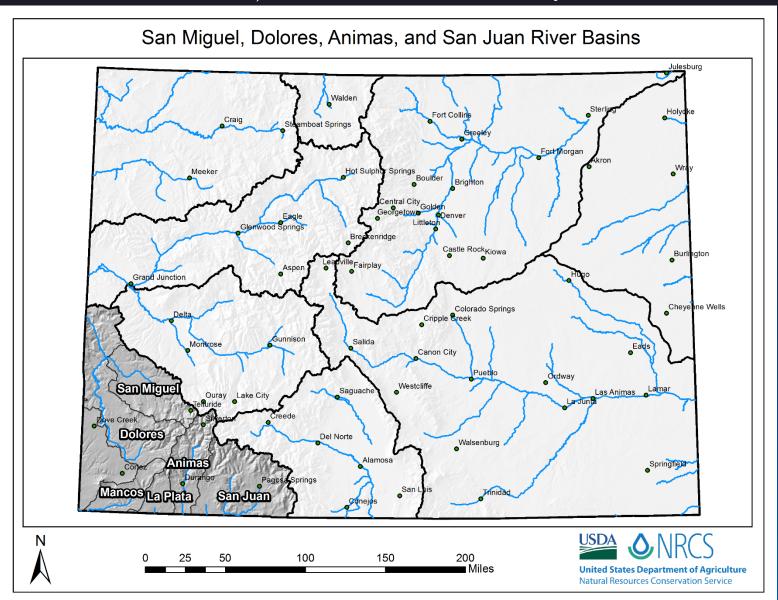


Median daily statistic (113 years) ★ Measured discharge Discharge

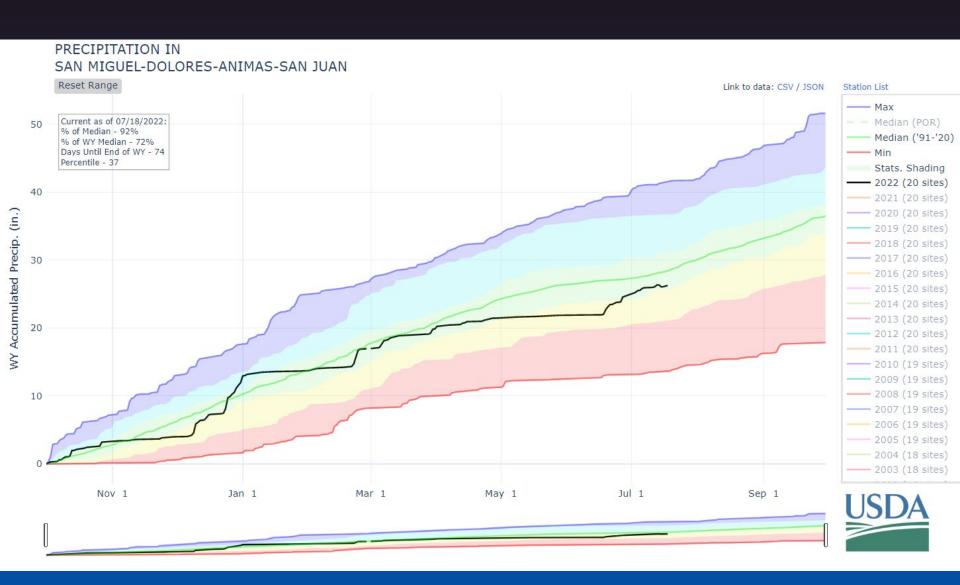


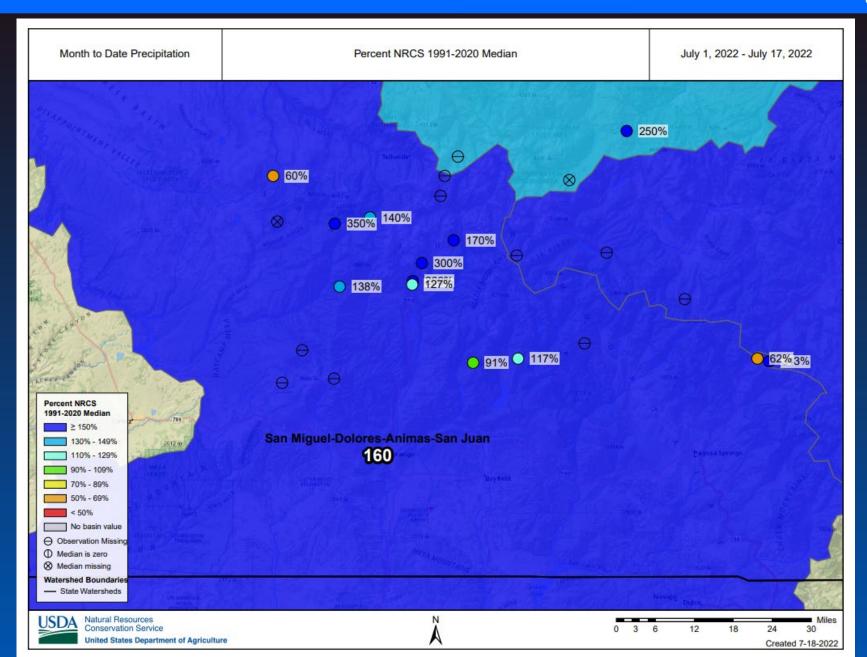


Major Basin Summary





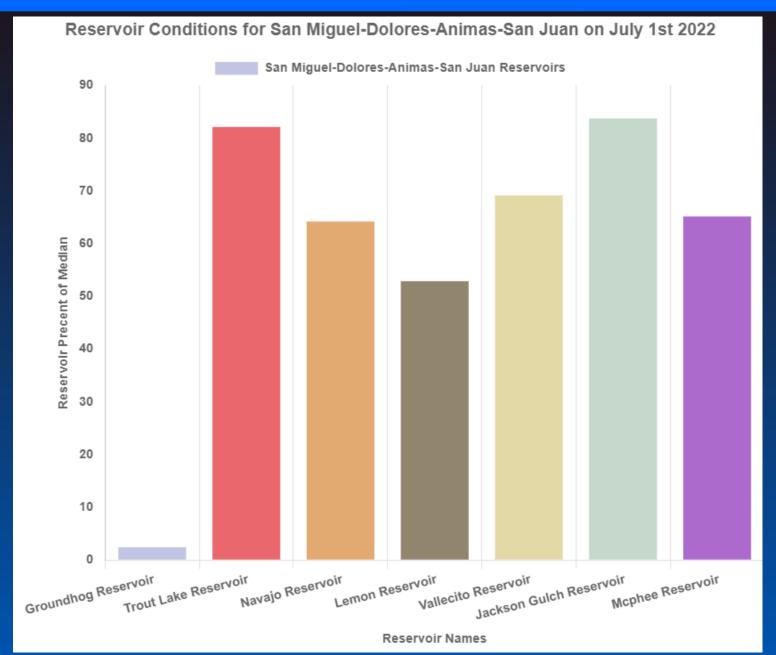




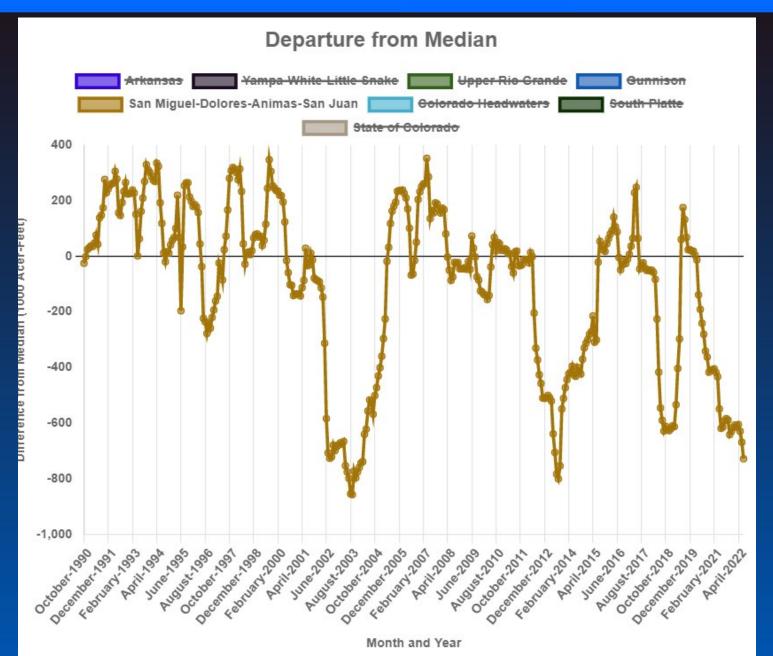








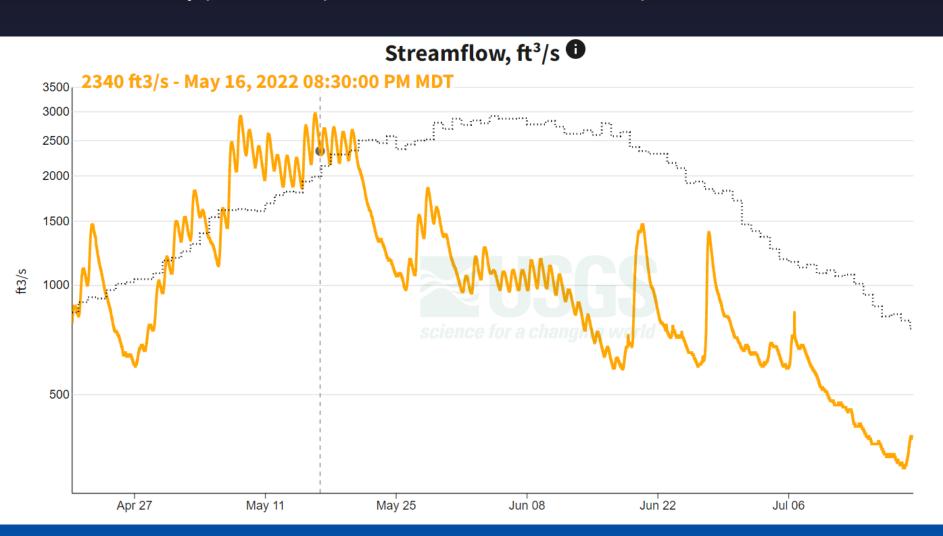






Animas at Durango:

Note the early peak and spikes from monsoon rain but quick return to baseflow



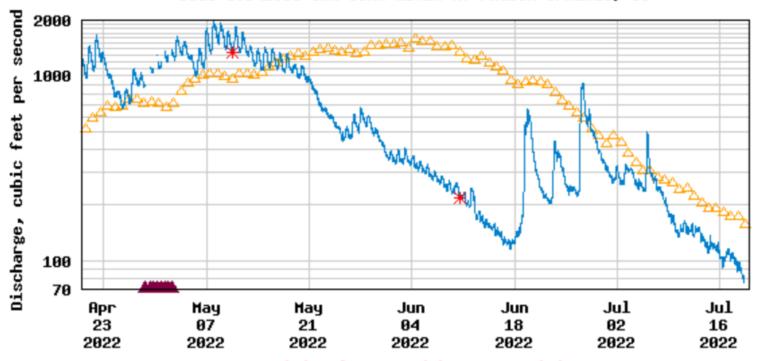




Discharge, cubic feet per second

Most recent instantaneous value: 76.4 07-19-2022 08:00 MDT





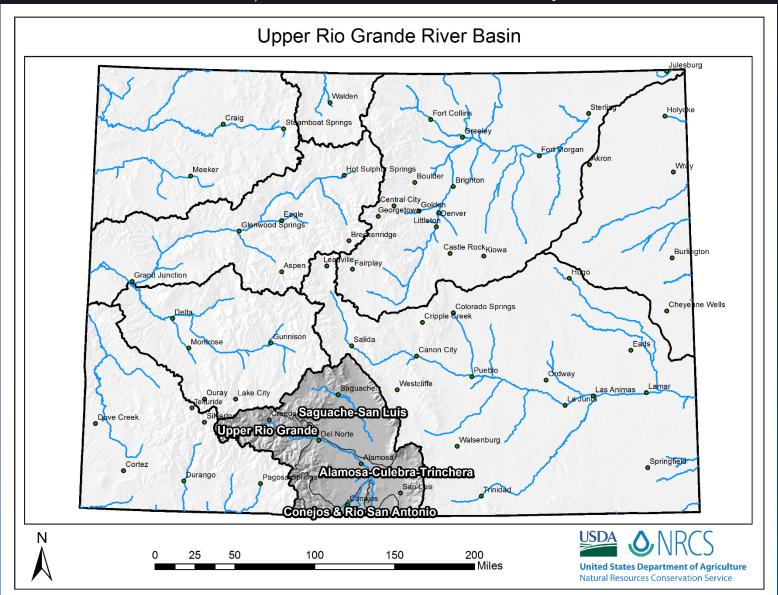
---- Provisional Data Subject to Revision ----

- △ Median daily statistic (86 years)
 - Discharge
- Value affected by equipment malfunction.
- * Measured discharge

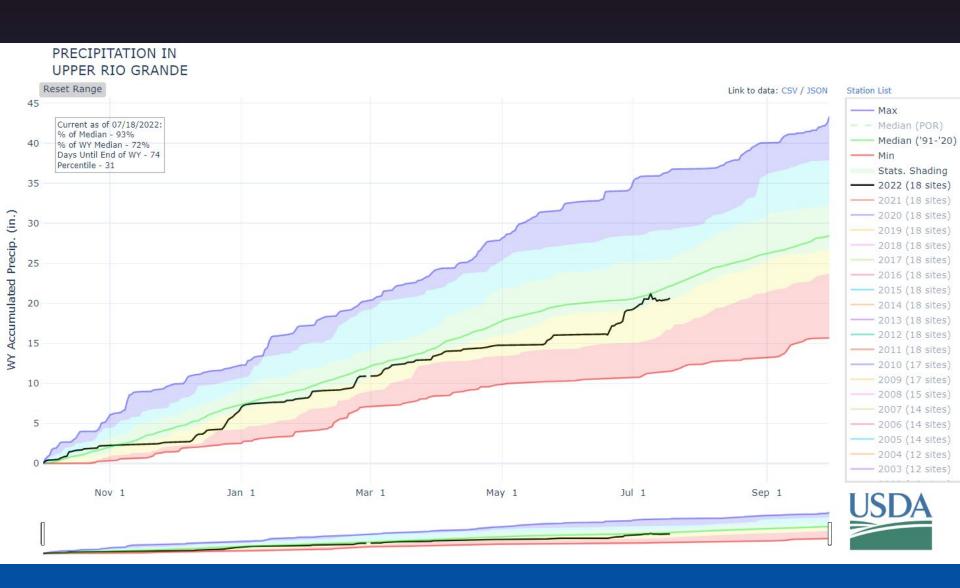




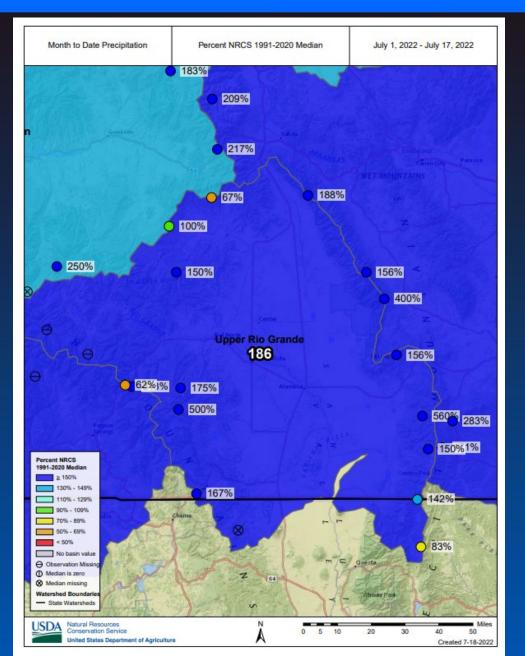
Major Basin Summary



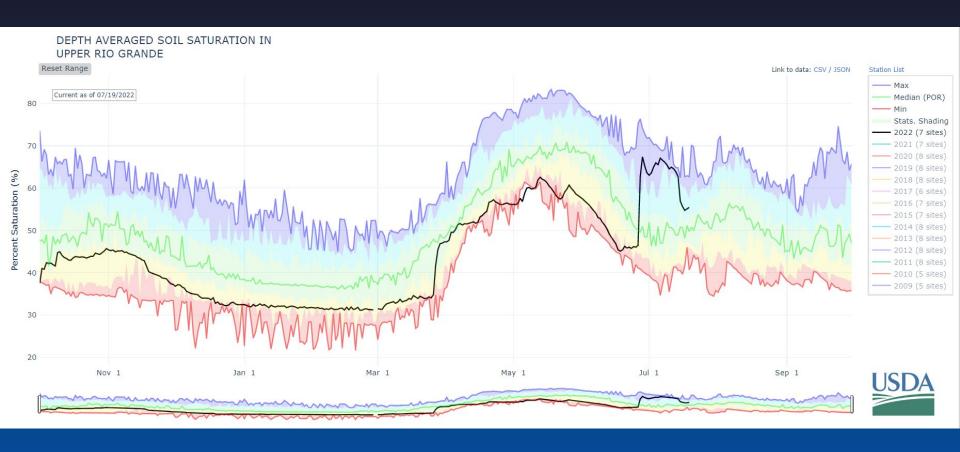




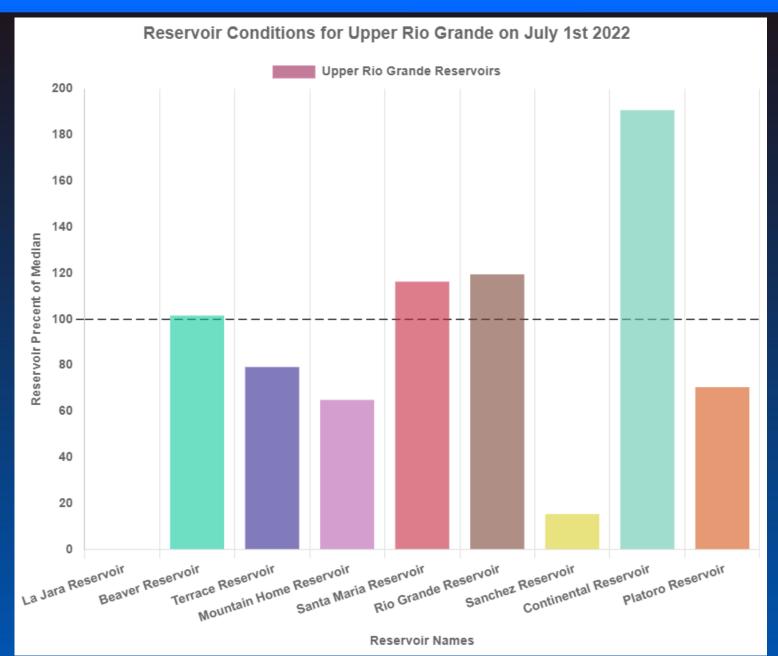






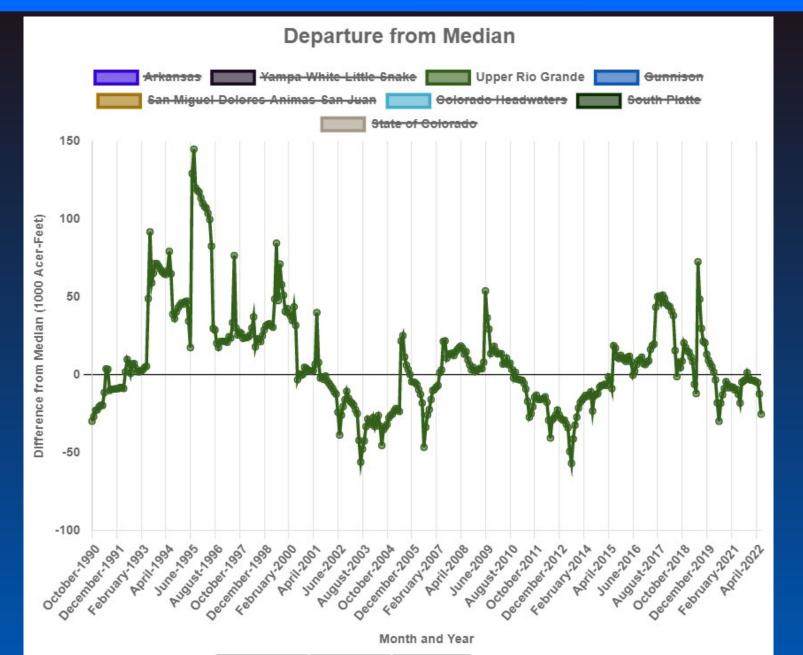






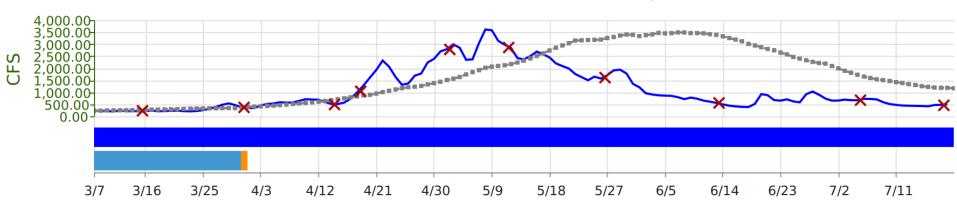








RIODELCO - RIO GRANDE NEAR DEL NORTE, CO



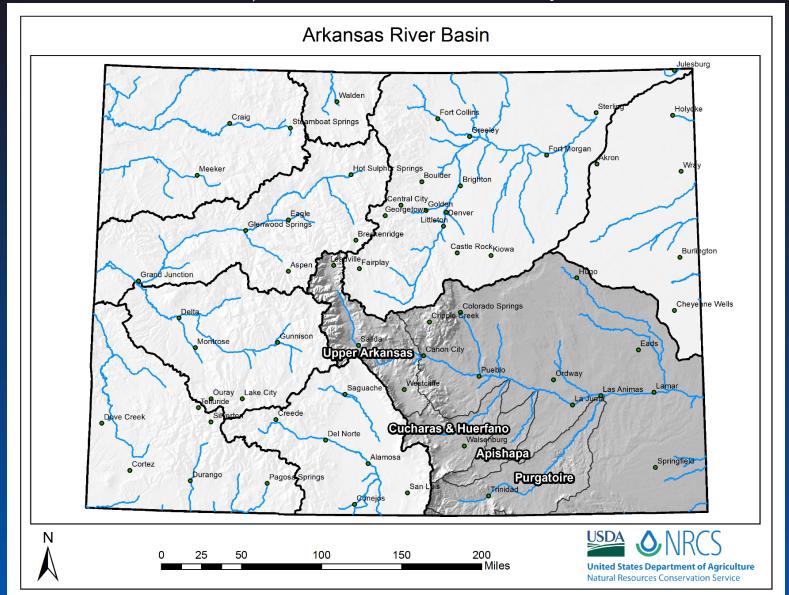
Legend

Flags

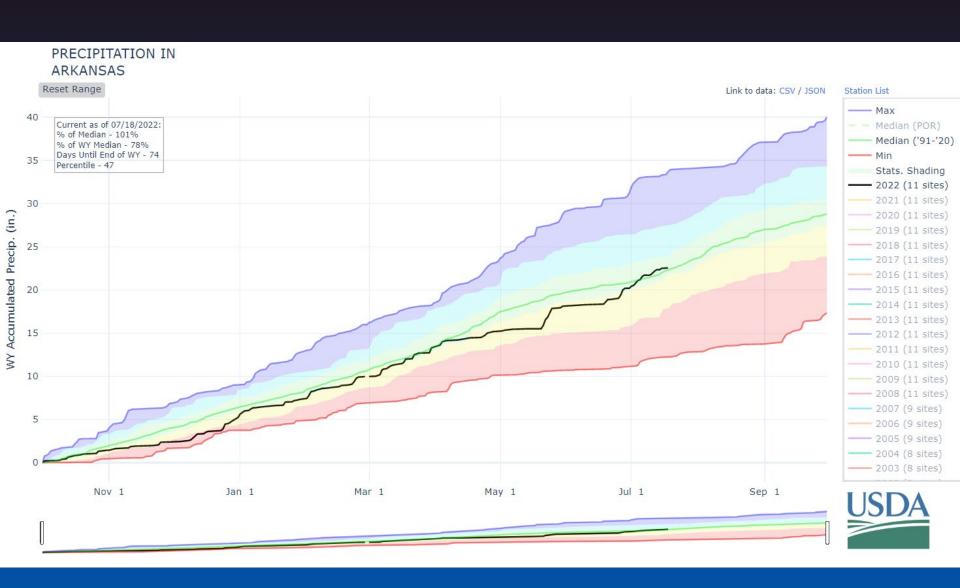
■ O - Original data as collected by the data collection platform ■ Ice - Ice affected ■ Obs* - Multiple flags were active during this timestep



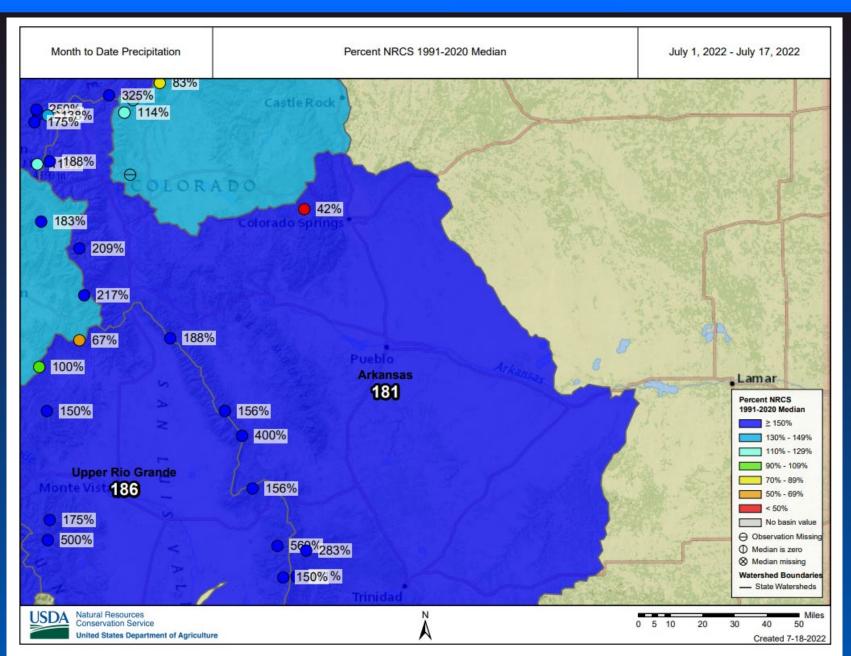
Major Basin Summary



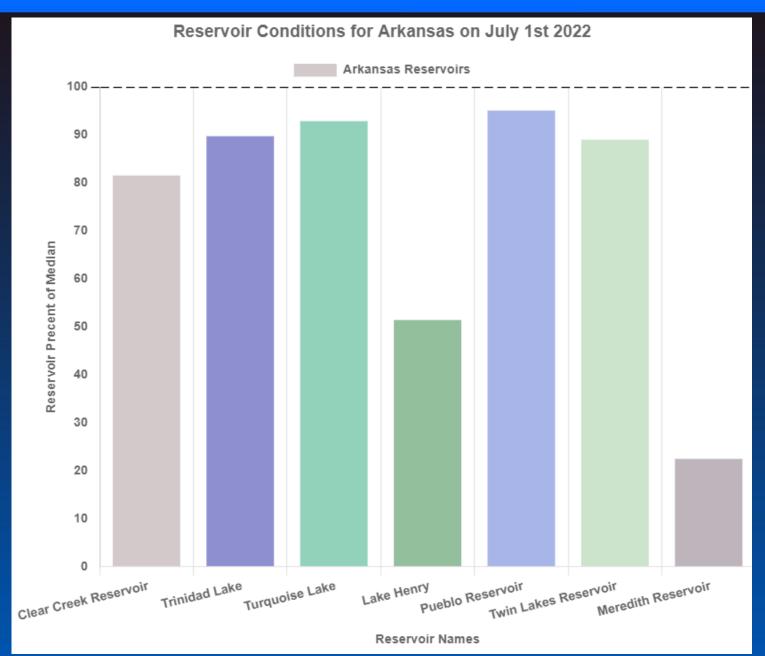






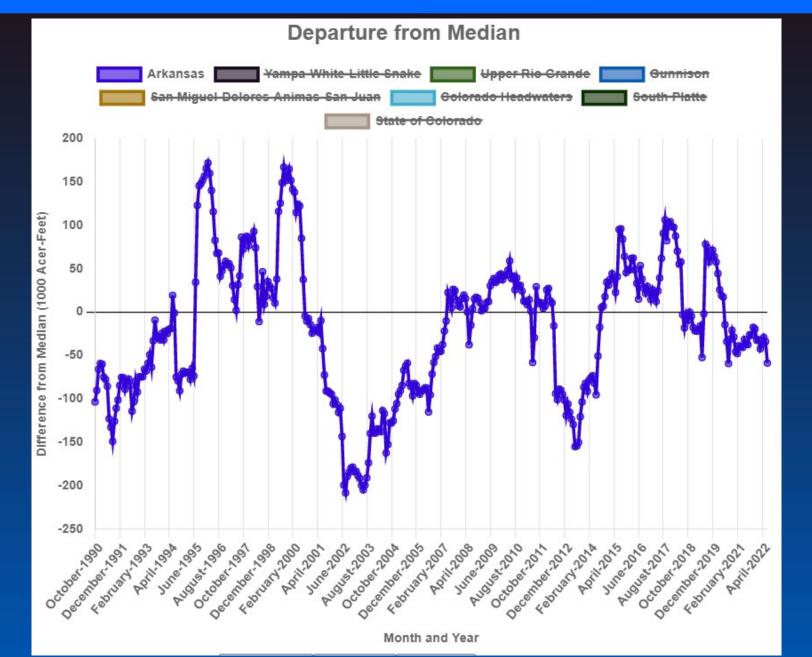










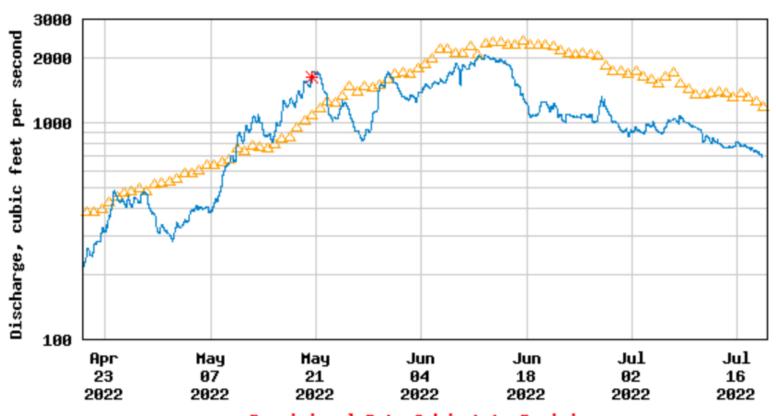




Discharge, cubic feet per second

Most recent instantaneous value: 692 07-19-2022 07:45 MDT

USGS 07094500 ARKANSAS RIVER AT PARKDALE, CO.

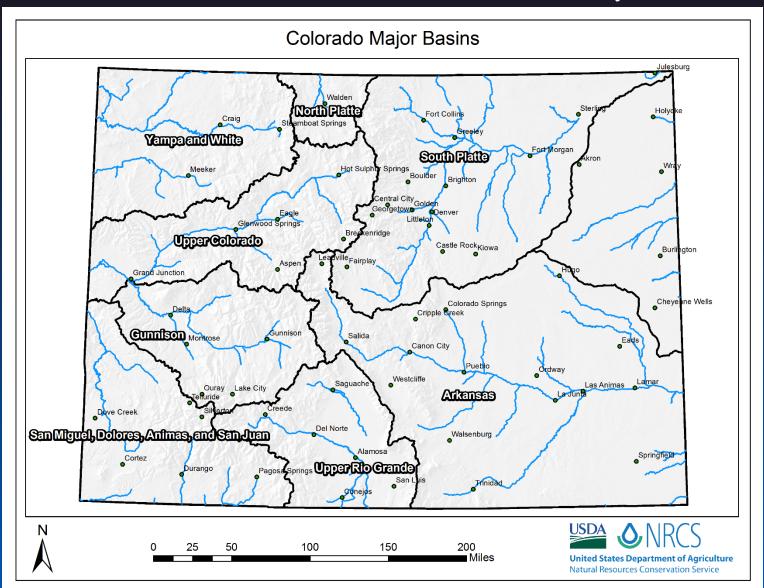


---- Provisional Data Subject to Revision ----

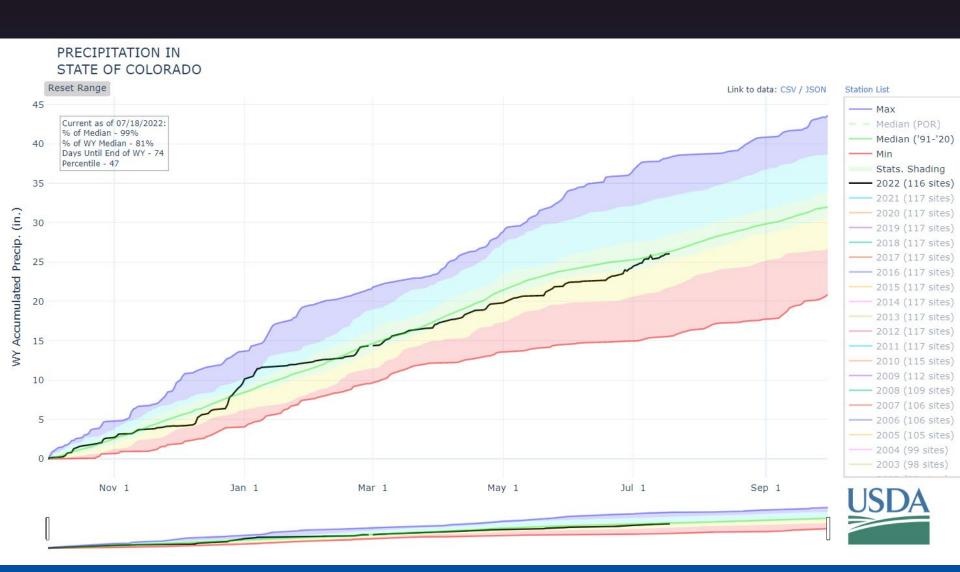
[△] Median daily statistic (67 years) * Measured discharge
— Discharge

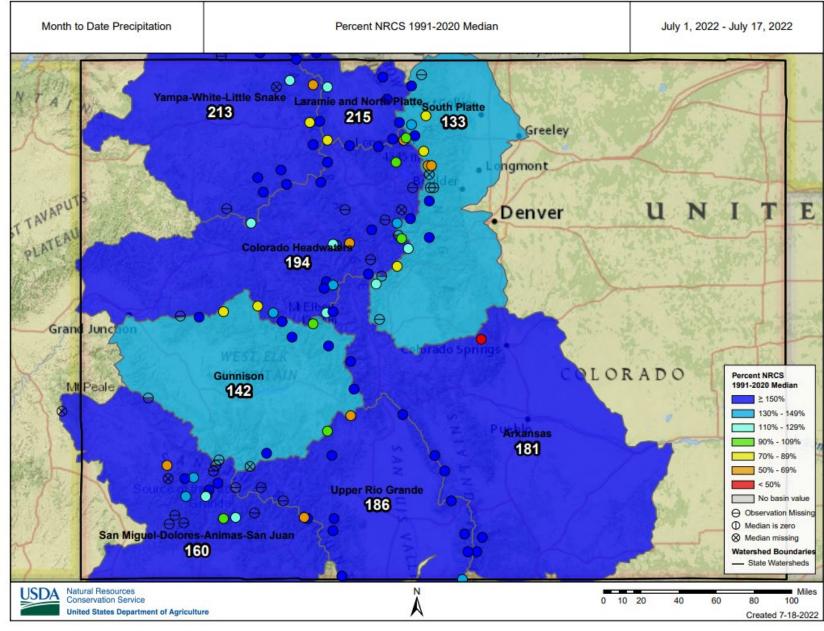


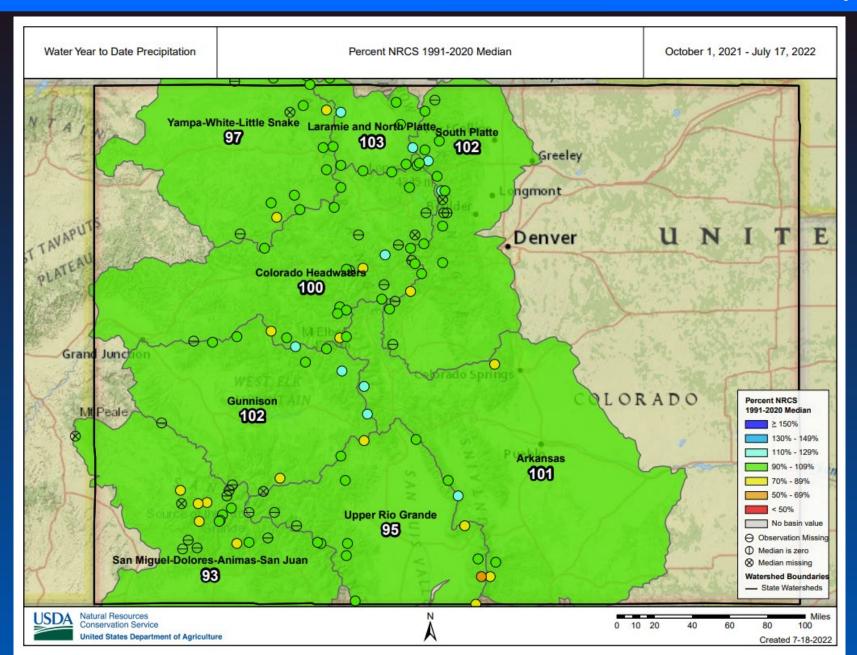
Colorado Statewide Summary



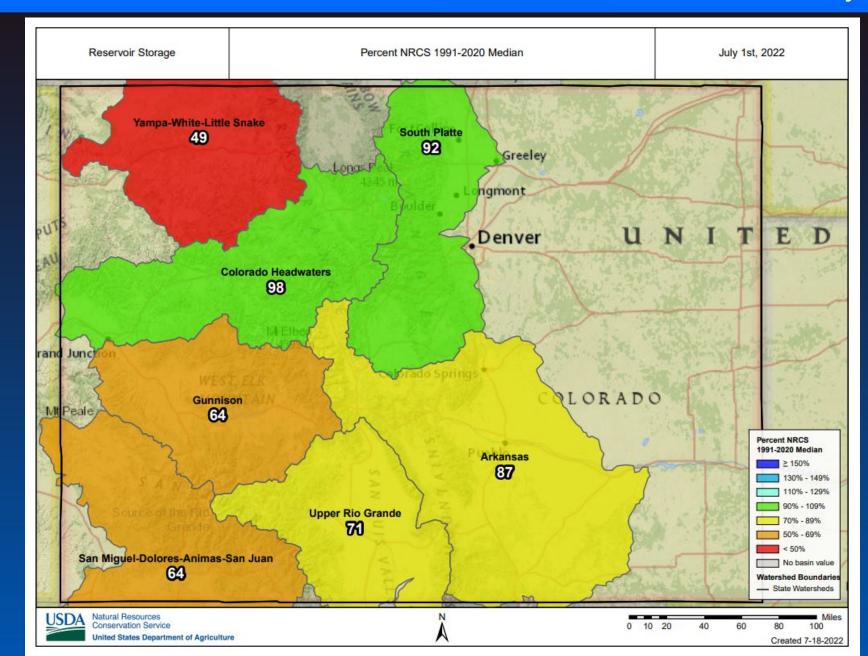








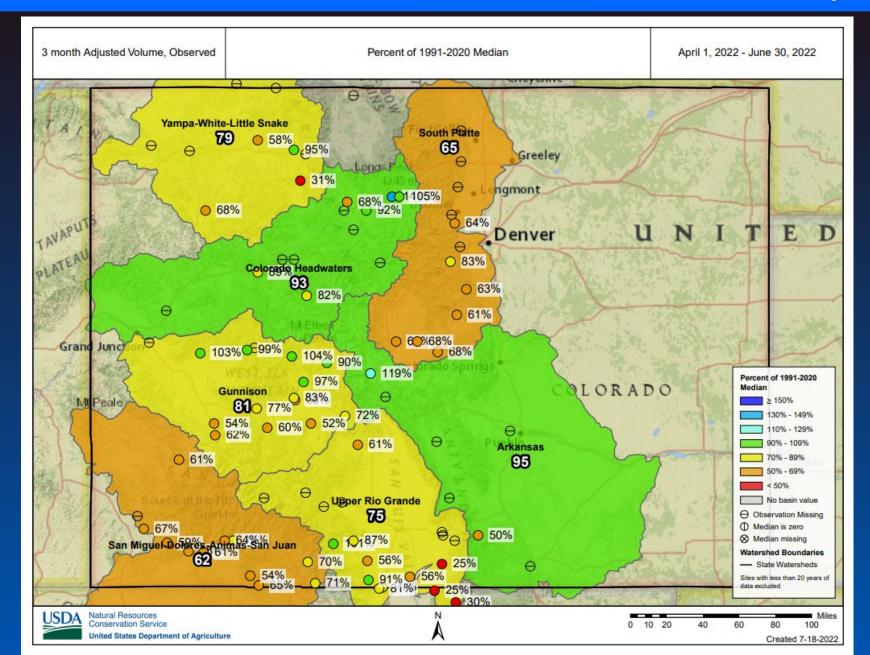
USDA





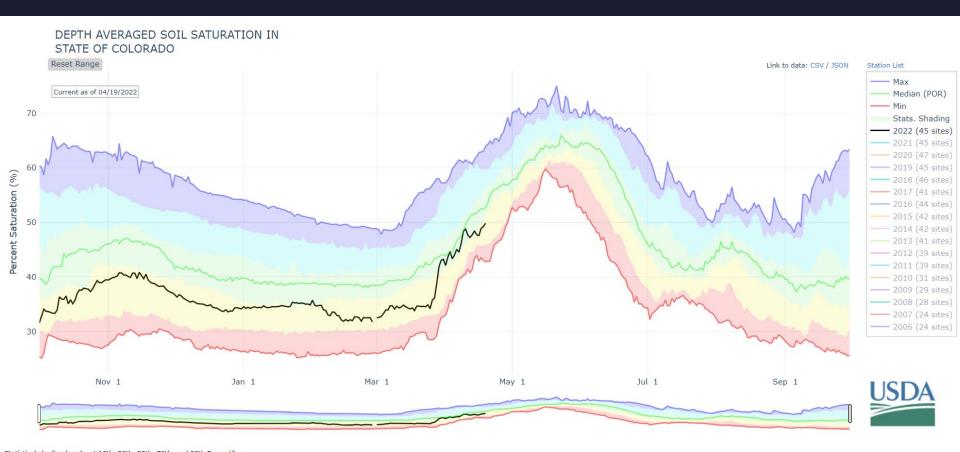
Departure from Median Yampa-White-Little Snake Upper Rio Grande San Miguel-Dolores-Animas-San Juan South Platte State of Colorado 1,000 500 Difference from Median (1000 Acer-Feet) -500 -1,000 -1,500-2,000-2,500December 2005 Decemberant kehuari agas Audist 1996 December 1888 February Jose Fabruary 2007 Kedruari Dia Decemberations December 1991 April 1994 June 1995 October 1997 June 2002 Audistralis Octoberzook Augustono April 2015 June 2016 August 2017 Octoberzons February 2021 Polity do Polity dos June 2009 Octoberzon Month and Year







SNOTEL Soil Moisture





Summary

- •Late June and July to date have brought well above normal precipitation to the mountains of every major river basin in Colorado.
- •Reservoir storage remains below normal across the state.
 - The lowest storages are in the Gunnison and combined San Miguel, Dolores, Animas, and San Juan basins.
 - The Colorado and South Platte basins are holding the most storage in the state, relative to normal.
- •Peak streamflows from snowmelt runoff occurred much earlier than normal in much of the state. Most notably in southwest Colorado.
- •Despite spikes in streamflow resulting from precipitation events streamflows are generally remaining at below normal levels across the state.
- •The snowmelt driven portion of the hydrograph is nearing an end for this year.

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