

Water Availability Task Force Meeting September 27th, 2022

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos Hydrologist brian.domonkos@usda.gov 720-544-2852 http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/



United States Department of Agriculture

Colorado Snow Surveys



Snowpack















Reservoirs







Departure from Median





Departure from Median





Departure from Median







Precipitation



























PRECIPITATION IN





entice etates population of Agricult











Soil Moisture





















DEPTH AVERAGED SOIL SATURATION IN









Soil Moisture Data

- Soil Moisture data still new
 Need time to quality control. So data may change.
- Soil Moisture has bounced back to the best levels since 2014 (statewide)
- Improvement seems to be due to monsoon
- As long as conditions hold this will be great start to winter.



United States Department of Agriculture

Colorado Snow Surveys

Streamflow



USDA













United States Department of Agriculture

Colorado Snow Surveys



Streamflow Forecasts

Outdated

Did want to show the impacts of the monsoonal moisture
































































Summary

•Snowpack - Was near normal compared to current standard but below normal compared to previous normal. Near normal snowpack combined with poor reservoirs, precipitation, streamflows and soils moisture bode poorly for runoff.

•Reservoirs - Near to well below normal

Precipitation – last 120 days - Monsoonal moisture has improved statewide conditions considerably.
Since May precip is between around 110 and 160% of normal. Further south = greater improvements.
Precipitation – Water year to Date – 101% of median across the entire state

•Mountain soil moisture (as indicated by the 8 inch sensor depth) has increased considerably as a result of monsoonal moisture. The data is still preliminary, but indicates soil moisture levels are better than they have been in three, plus, years. Deeper soil depths may still be drier (sensors at that depth are not as prevalent across the state).

•Streamflow – August - streamflow below normal in Northwestern CO, near normal in the South Platte, Colorado Headwaters and Gunnison and largely above normal in the major Southern basins.

•Streamflow – Water Year to Date – Remains largely below to well below normal across much of the state.

•2022 Water budget overview– While precipitation is much improved, the bulk of streamflow annual volume comes from seasonal mountain snowmelt, which was poor this year. Improvements from the monsoon this year was still only a smaller few drops in the bucket when considered as a total of the entire water year budget.

•Monsoon Impact – If soil moisture can remain propped up until seasonal snowpack begins to build for the winter, it would provide a better situation than we have seen in years for the overall snowpack.



Non-Discrimination Statement:

In accordance with Federal civil rights law and U.S. Department of agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the responsible Agency or USDA 's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at How to File a Program Discrimination Complaint and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call [866) 632-9992. Submit your completed form or letter to USDA by: (1) mail: U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; (2) fax: (202) 690-7442; or (3) email: program.intake@usda.gov.



Water Availability Task Force Meeting September 27th, 2022

NRCS Snow Survey and Water Supply Forecasting Program

Brian Domonkos Hydrologist brian.domonkos@usda.gov 720-544-2852 http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/