

Water Conditions Monitoring Committee Meeting February 25th, 2025

NRCS Snow Survey and Water Supply Forecasting Program

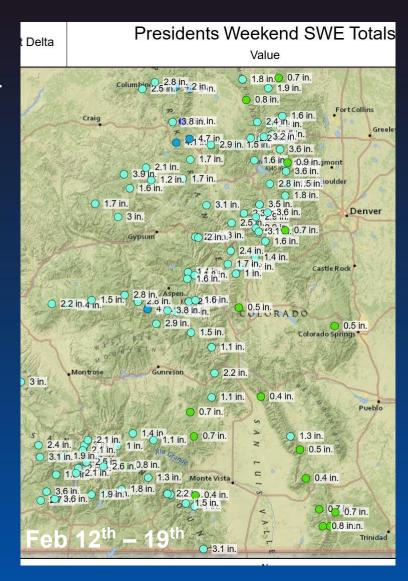
Nagam Gill Hydrologist Nagam.Gill@usda.gov http://www.nrcs.usda.gov/wps/portal/nrcs/main/co/snow/

Statewide Conditions as of 2/24/25

- Snow water equivalent 102%
- WYTD precipitation 104%
- 30 day precipitation 109%
- 60 day precipitation 104%
- Soil moisture
 - -20" ranges from 51 149%
 - 8" ranges from 47 148%

Statewide Conditions as of 2/13/25

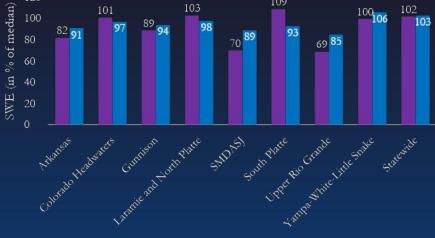
- Snow water equivalent 90%
- WYTD precipitation 94%
- 30 day precipitation 55%
- 60 day precipitation 75%



USDA

Percent Change in SWE (%)





Percent Change in Snow Water Equivalent, February 24th 2025 vs February 24th 2024

-21

5

4

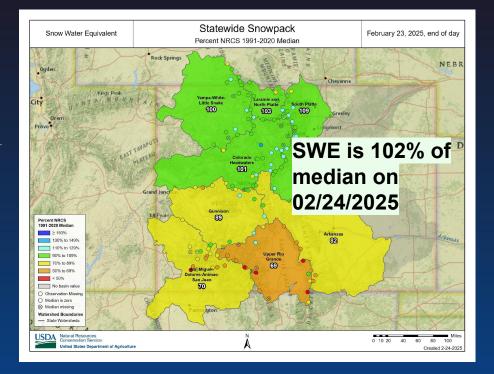
-10

-5

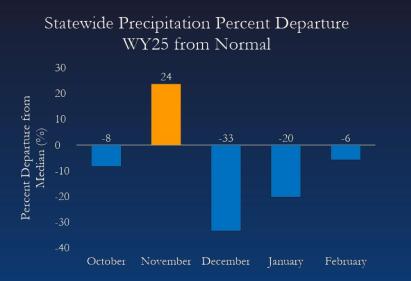
17

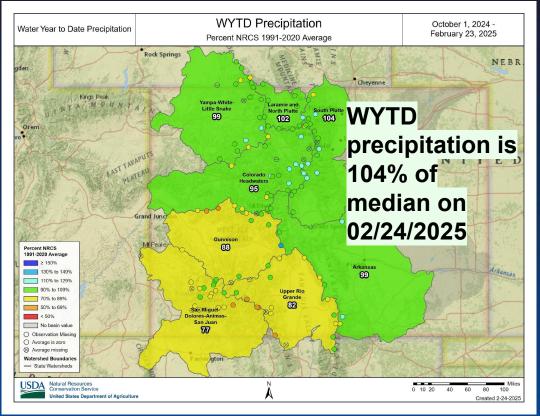
-19

-6

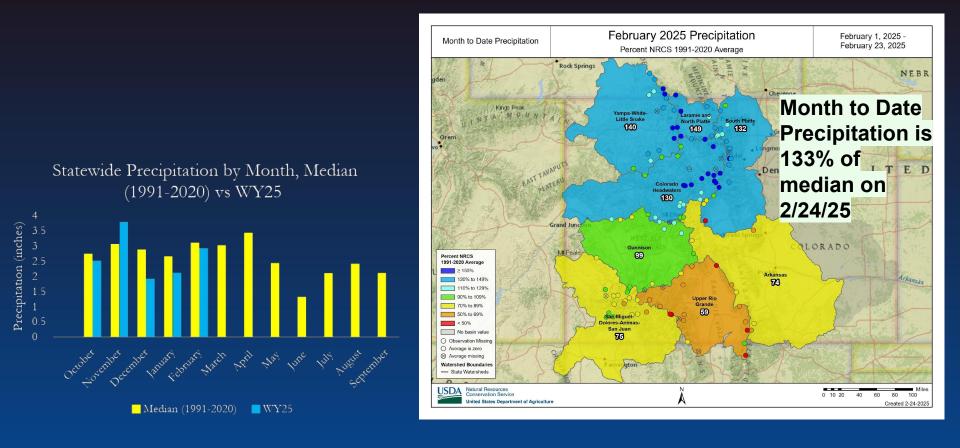






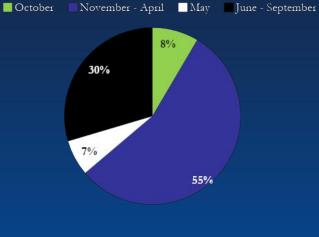


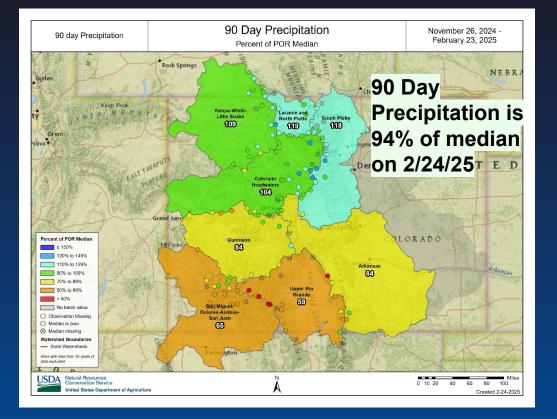




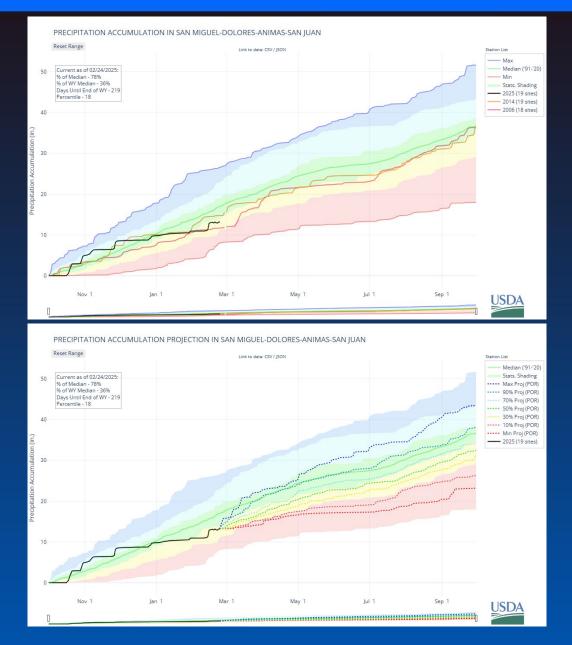












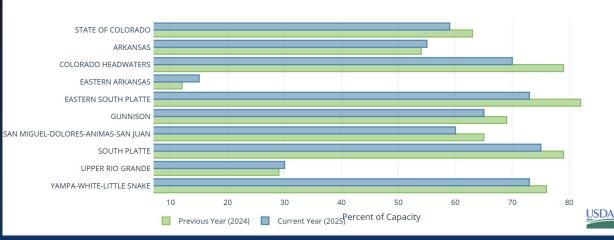


PRECIPITATION ACCUMULATION IN UPPER RIO GRANDE Reset Range Link to data: CSV / JSON Station List 45 - Max Current as of 02/24/2025: Median ('91-'20) % of Median - 82% - Min 40 % of WY Median - 33% Stats. Shading Days Until End of WY - 219 ----- 2025 (18 sites) Percentile - 17 ------ 2014 (18 sites) 35 ------ 2003 (12 sites) (j 30 25 20 15 10 Jan 1 Mar 1 May 1 Jul 1 Sep 1 Nov 1 USDA PRECIPITATION ACCUMULATION PROJECTION IN UPPER RIO GRANDE Reset Range Link to data: CSV / JSON Station List 45 Median ('91-'20) Stats. Shading Current as of 02/24/2025: % of Median - 82% % of WY Median - 33% ····· Max Proj (POR) 40 ----- 90% Proj (POR) Days Until End of WY - 219 ----- 70% Proj (POR) Percentile - 17 ----- 50% Proj (POR) 35 ----- 30% Proj (POR) ----- 10% Proj (POR) ••••• Min Proj (POR) (iu 30 _____ 2025 (18 sites) 25 20 15 10

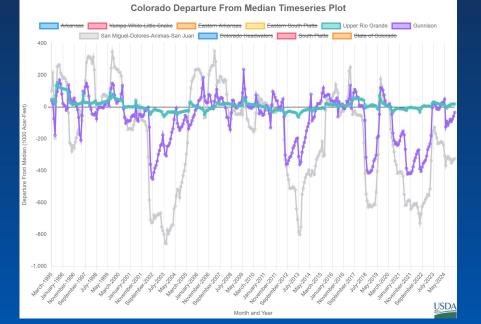








Statewide Reservoirs are at 90% February 1st 2025 compared to 87% February 1st 2024



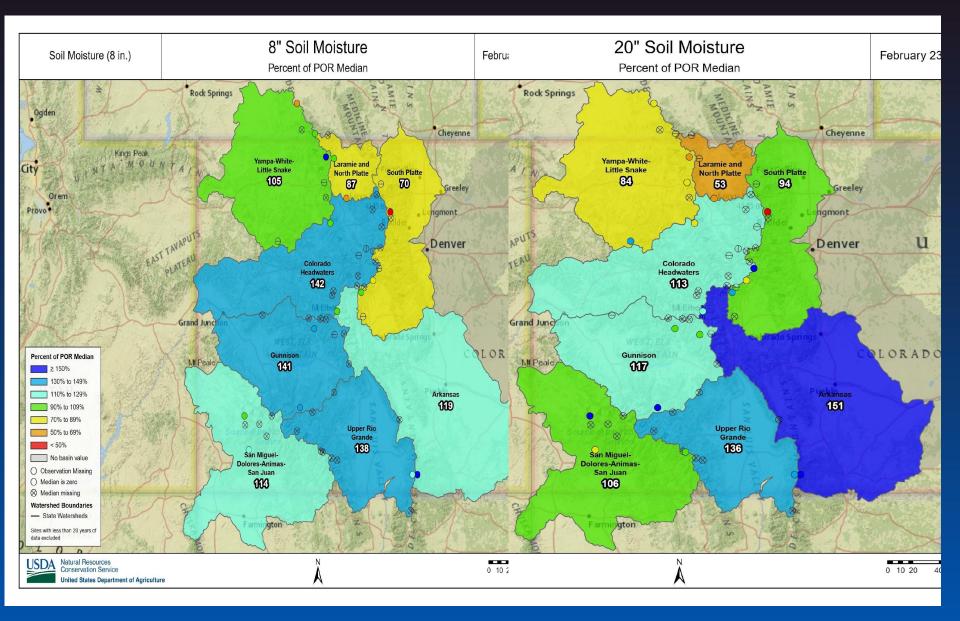
SMDASJ:

-McPhee is at 55% capacity and 77% of median -Navajo is at 61% capacity and 79% of median

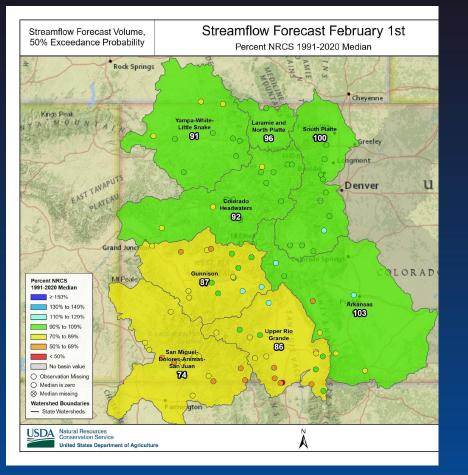
Gunnison:

-Blue Mesa is at 62% capacity and 95% of median

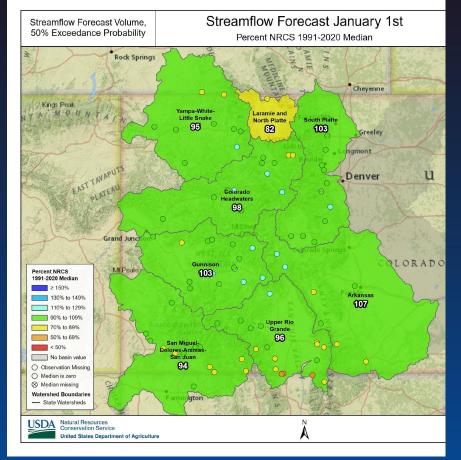








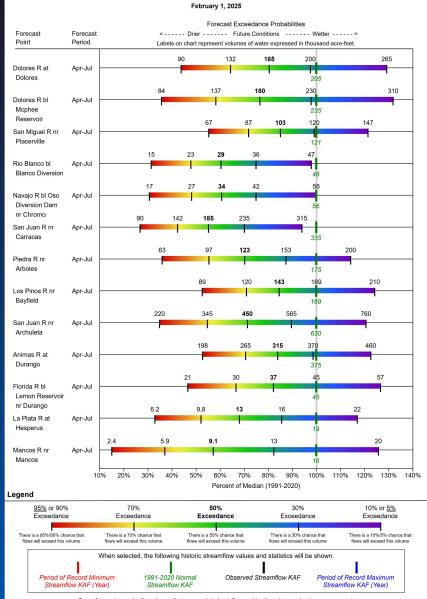
50% exceedance probability February 1st is 89%



50% exceedance probability January 1st is 98%

SAN MIGUEL-DOLORES-ANIMAS-SAN JUAN Water Supply Forecasts

The 50% exceedance forecast is often the primary reference, considering higher and lower exceedance scenarios provides a more complete picture of potential runoff outcomes

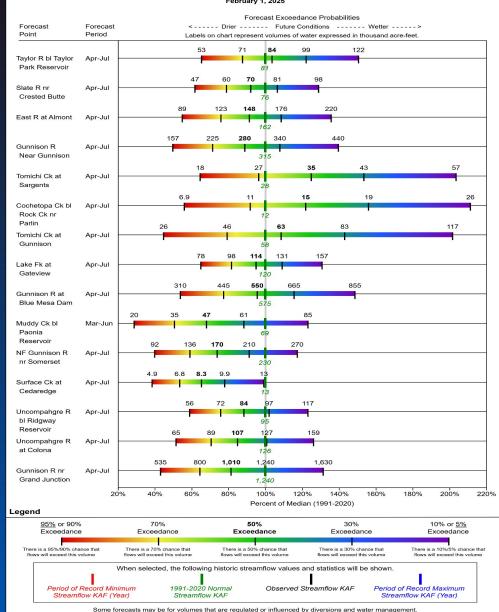


Some forecasts may be for volumes that are regulated or influenced by diversions and water management.

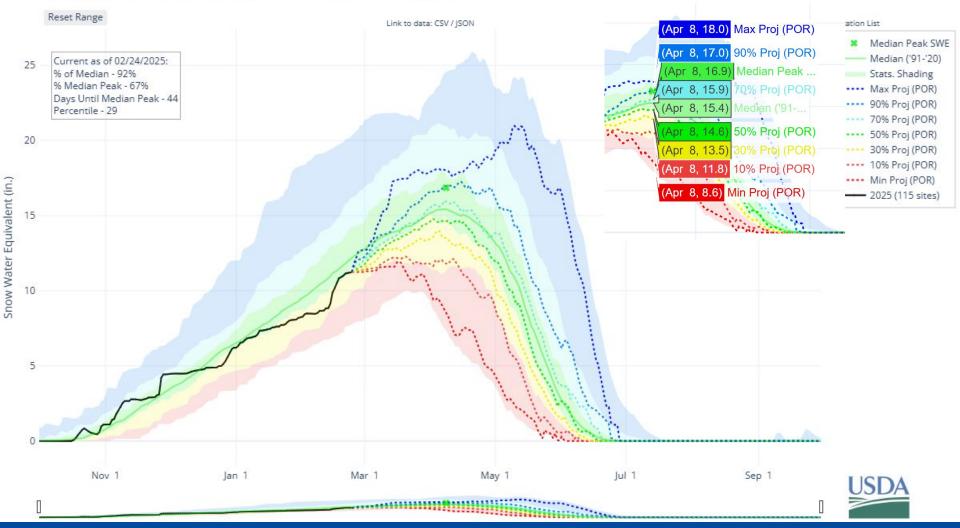
UPPER RIO GRANDE Water Supply Forecasts February 1, 2025 Forecast Exceedance Probabilities Forecast Forecast <----- Drier ----- Future Conditions ----- Wetter -----> Point Period Labels on chart represent volumes of water expressed in thousand acre-feet. 61 83 98 113 135 Rio Grande at Apr-Jul Thirty Mile 111 Bridge 73 97 131 162 115 Apr-Sep 120 195 260 310 350 410 Rio Grande at Apr-Sep Wagon Wheel 310 Gap 104 43 73 89 126 SF Rio Grande Apr-Sep at South Fork 112 270 375 440 500 600 Rio Grande nr Apr-Sep Del Norte 480 18 26 31 35 42 Saguache Ck nr Apr-Sep Saguache 20 38 47 55 67 Alamosa Ck ab Apr-Sep Terrace Reservoir 18 35 45 58 74 La Jara Ck pr Mar-Jul Capulin 6.1 8.2 9.4 12 15 Trinchera Ck ab Apr-Sep Turners Ranch 12 19 3.6 6.5 9.1 Sangre De Apr-Sep Cristo Ck 7.7 9.1 5.1 11 13 Ute Ck nr Fort Apr-Sep T Garland 17 33 41 47 57 Conejos R bl Apr-Jul Platoro Reservoir 38 63 21 45 53 Apr-Sep 68 92 108 126 153 Coneios R nr Apr-Sep Mogote 168 0.06 з 4.7 1.6 8 San Antonio R at Apr-Sep Ortiz 9.6 10 22 31 39 50 Los Pinos R nr Apr-Sep Ortiz 7.7 13 22 31 Culebra Ck at Apr-Sep San Luis 7.5 9.3 11 13 Costilla Ck bl Mar-Jul Costilla Dam 6.9 11 15 19 26 Costilla Ck nr Mar-Jul Costilla 0% 20% 40% 60% 80% 100% 120% 140% 160% 180% 200% Percent of Median (1991-2020) Legend 95% or 90% 70% 50% 10% or <u>5%</u> 30% Exceedance Exceedance Exceedance Exceedance Exceedance E There is a 95%/90% chance that flows will exceed this volume There is a 70% chance that flows will exceed this volume There is a 50% chance that flows will exceed this volume There is a 30% chance that flows will exceed this volume There is a 10%/5% chance that flows will exceed this volume When selected, the following historic streamflow values and statistics will be shown Period of Record Maximum Streamflow KAF (Year) Period of Record Minimum 1991-2020 Norma Observed Streamflow KAF Streamflow KAF Streamflow KAF (Year)

Some forecasts may be for volumes that are regulated or influenced by diversions and water management

GUNNISON Water Supply Forecasts February 1, 2025



SNOW WATER EQUIVALENT PROJECTION IN STATE OF COLORADO



Summary

- Statewide snow water equivalent was boosted by mid-February storms from 90% on February 1st to 102% on February 24th
- Statewide WYTD precipitation is 104% of median. Ranging from 77% in the combined SMDASJ to 104% in the South Platte. Month to date precipitation is 133% showing a clear divide with northern water systems being favored and southern water systems ranging from 65 to 84%
- Statewide reservoir storage is at 90% of median a 3% increase from this time last year
- Generally, 8" and 20" soil moisture sensors indicate high saturation percentages across southern basins due to the strong monsoon influence at the end of WY24. In contrast, some northern regions received minimal late summer precipitation and remain drier, particularly the South Platte
- Statewide streamflow forecasts have declined from January to February, with the 50% exceedance probability dropping from 98% to 89%. Forecast accuracy is lower early in the season and improves as more snowpack data becomes available. Future weather remains the largest source of uncertainty, making it crucial to evaluate the full range of exceedance probabilities, especially in the drier regions like the southwest.



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