an overview of the climate tools and products we offer

Dr. Becky Bolinger Assistant State Climatologist

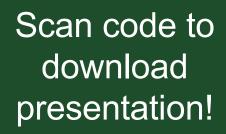
Extension Connect Monthly Conversation

March 23, 2023







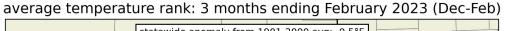


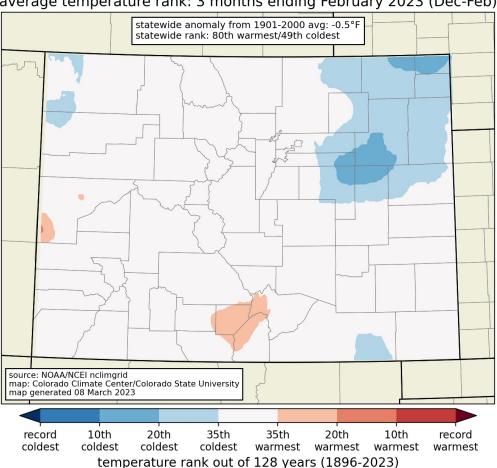




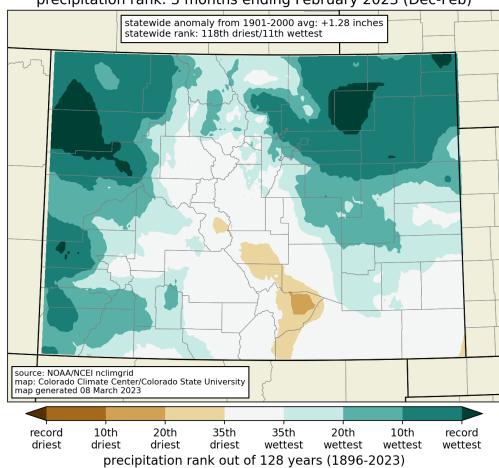


Colorado's Climate at a Glance – rank maps





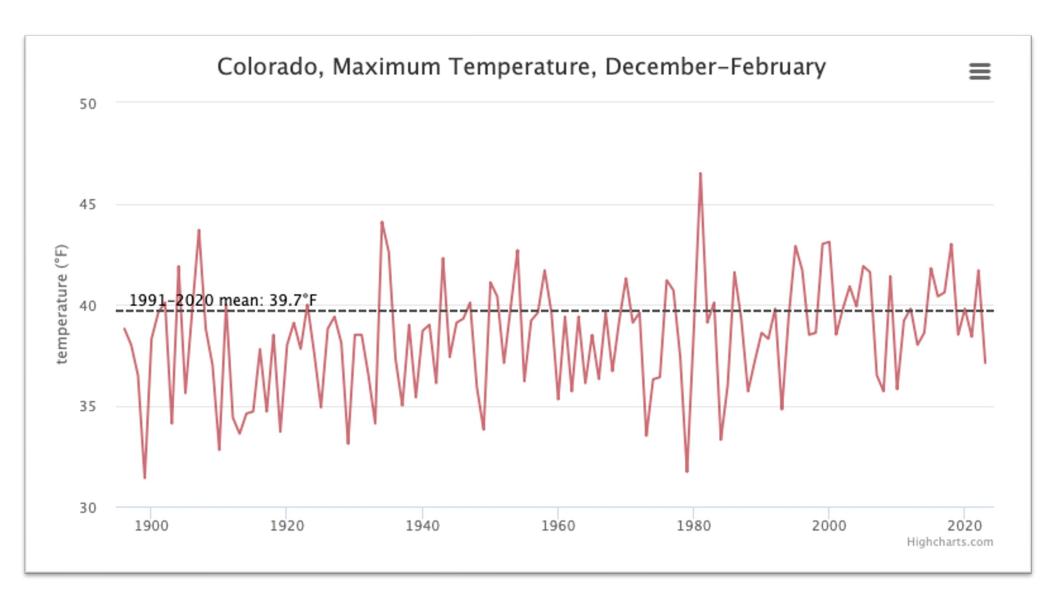
precipitation rank: 3 months ending February 2023 (Dec-Feb)



climate.colostate.edu/co cag/



Colorado's Climate at a Glance – time series



climate.colostate.edu/co_cag/





Colorado Drought Page – precipitation

Home

Precipitation

Snowpack

Temperature

Soil & Vegetation

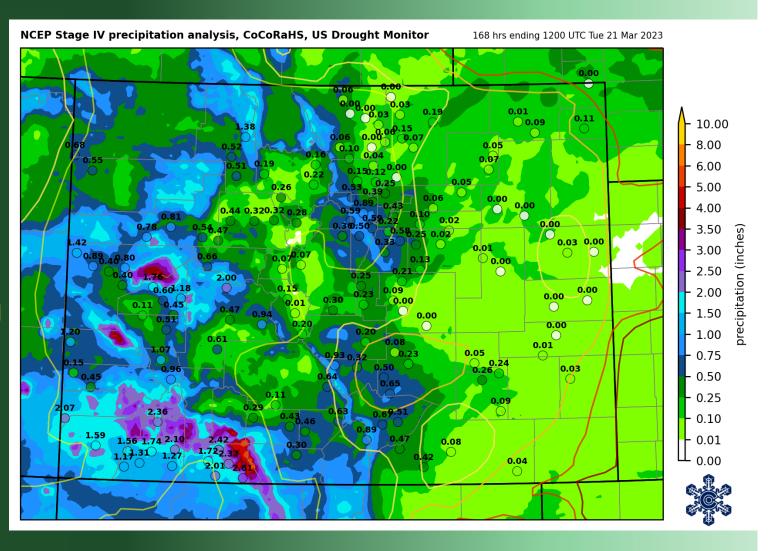
Evaporative Demand

Streamflow

Reservoirs

Outlook

US Drought Monitor



climate.colostate.edu/drought





Colorado Drought Page – snowpack

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Precipitation

Snowpack

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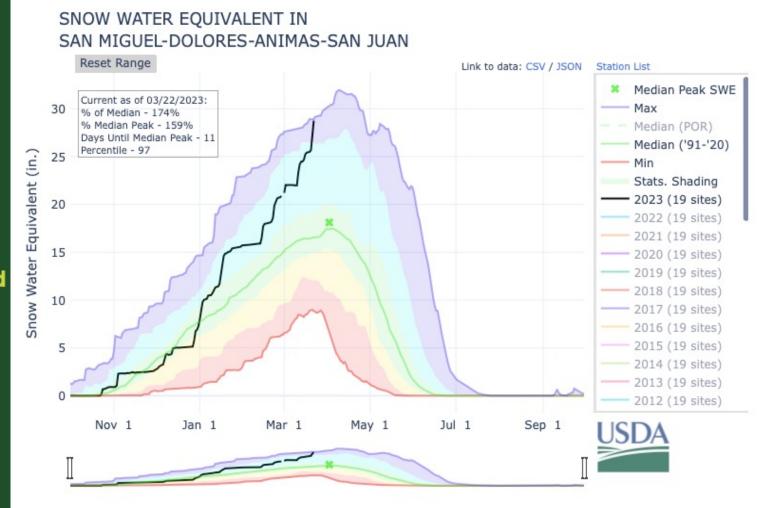
Evaporative Demand

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US Drought Monitor



climate.colostate.edu/drought





Colorado Drought Page – evaporative demand

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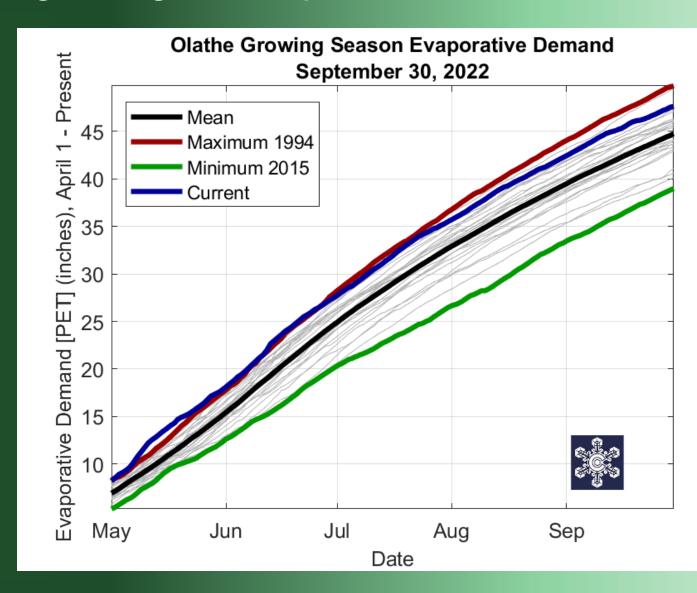
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climate.colostate.edu/drought

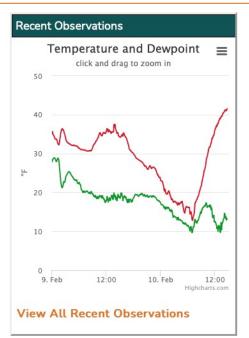


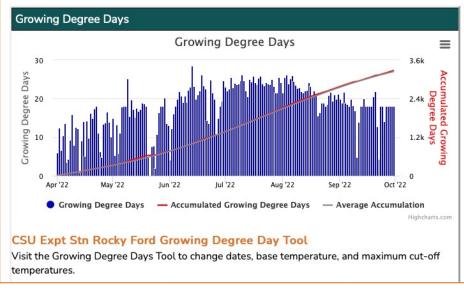


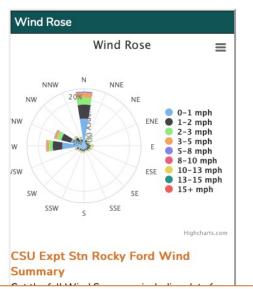
CoAgMET station pages











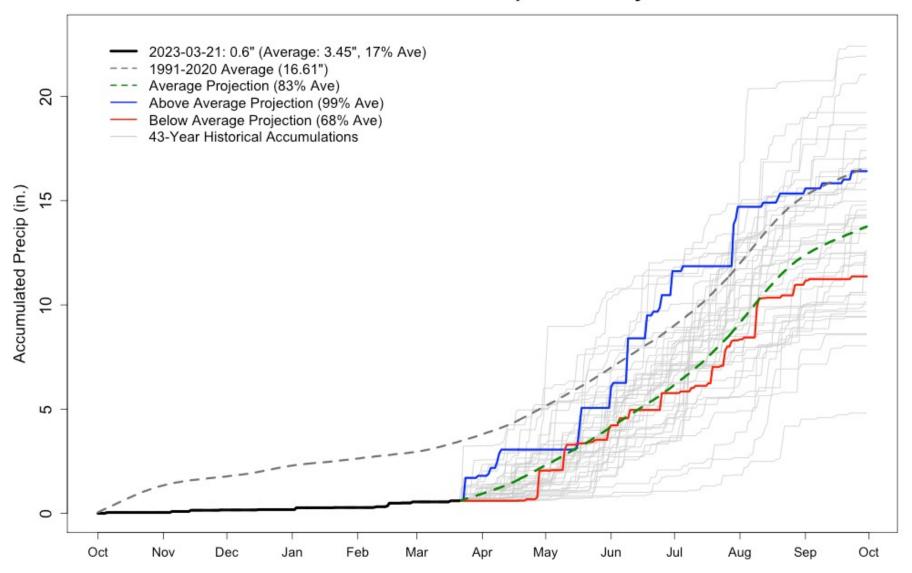
coagmet.colostate.edu/station/stn select.html





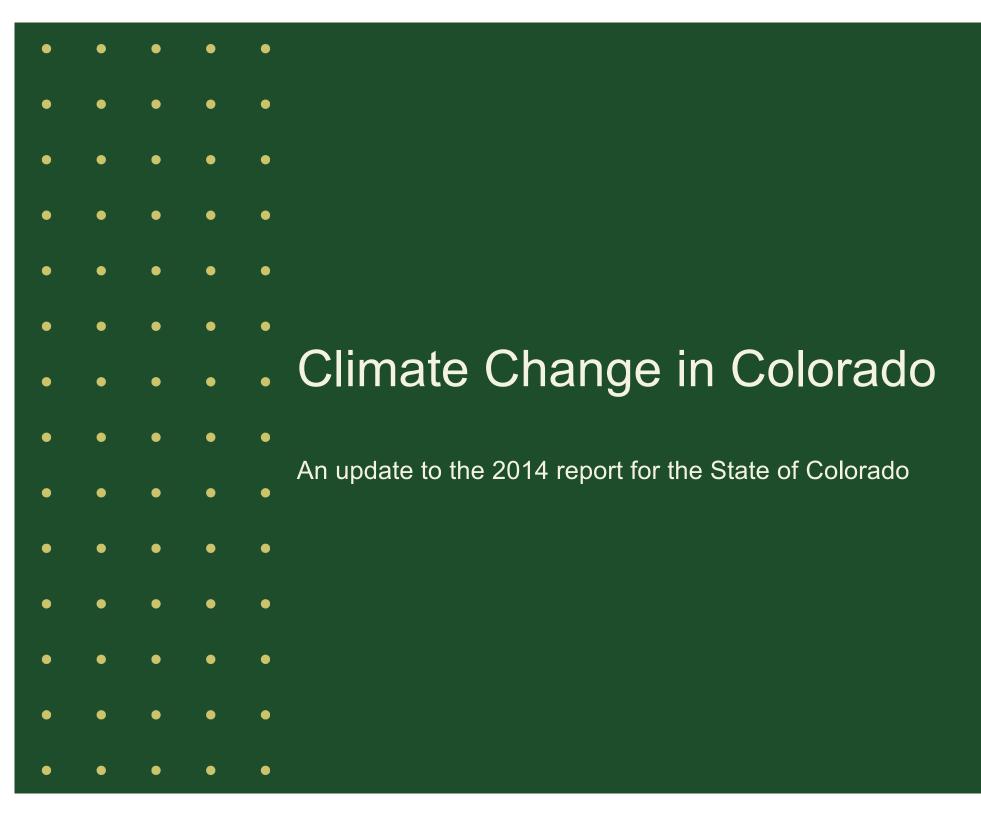
Precipitation Projections

CAMPO 7 S WY2023 Precipitation Projections



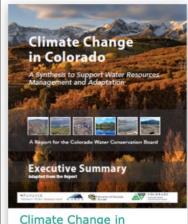
climate.colostate.edu/precip proj.html



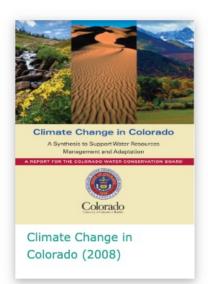


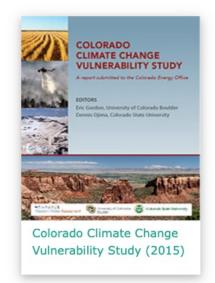
Current state assessments

CO climate change assessments





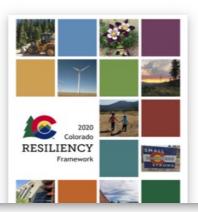


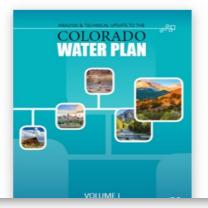




state plans, impacts & hazards assessments









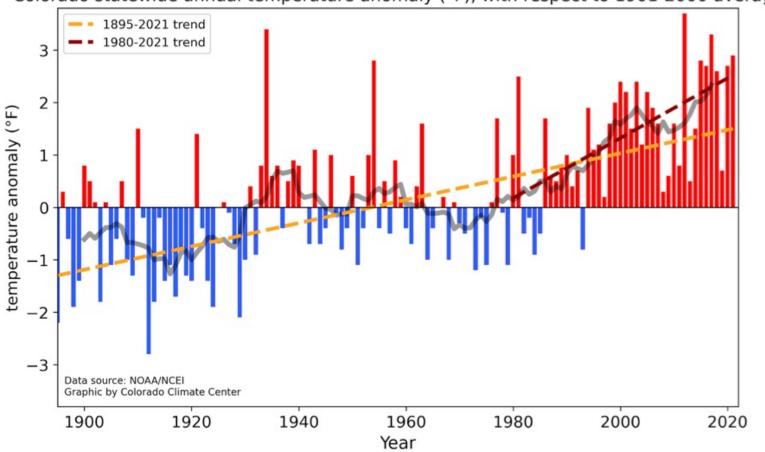
https://climate.colostate.edu/cc_in_CO/co_climate_resources.html





Phase 1 report – historical observations

Colorado statewide annual temperature anomaly (°F), with respect to 1901-2000 average



Take home: Since the late 19th century, Colorado statewide temperatures have warmed. Significant increases in annual temperatures have been observed since 1980.

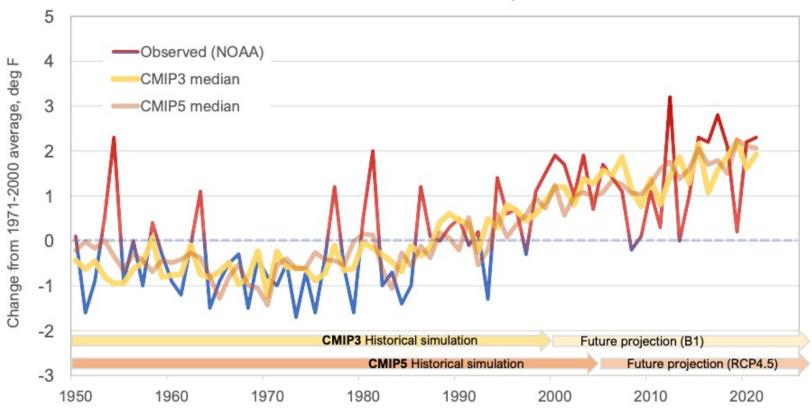
https://climate.colostate.edu/cc_in_CO/phase1_report_historical.pdf





Phase 1 report – future projections

Observed Colorado statewide annual temperatures vs. CMIP3 & CMIP5 modeled historical and future temperatures, 1950-2021

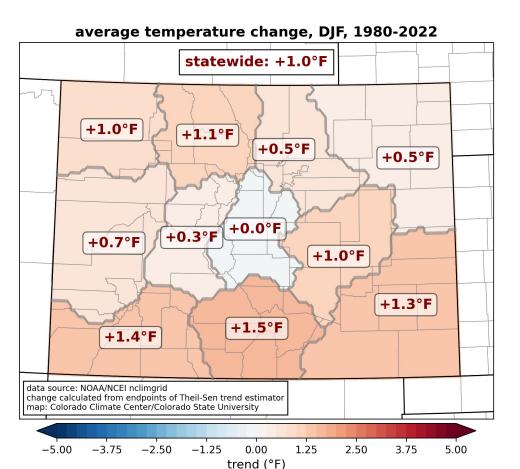


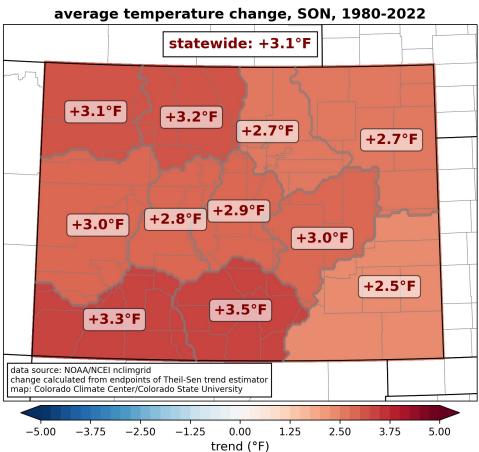
Take home: The observed temperatures for CO since 2000 track very closely with CMIP3 and CMIP5 median projections. This finding, along with regional attribution studies, suggests that most or all of Colorado's recent warming is human-caused (anthropogenic).

https://climate.colostate.edu/cc in CO/phase1 report projection.pdf



Climate Division trends





https://climate.colostate.edu/cc_in_CO/div_trends.html



Additional Resources

https://climate.colostate.edu/data_access_new.html
Quick access to raw data for stations all around the state
https://climate.colostate.edu/temp_graph.html
☐ Current daily temperature graphs compared to normal
https://climate.colostate.edu/normals_stn_select.html
■ Maps and graphs for station climate normals
https://coagmet.colostate.edu/maps.html
□ CoAgMET current conditions maps
https://climate.colostate.edu/ski-dashboard/
☐ Current snow and forecast snow conditions, hazards outlook
https://climate.colostate.edu/subscribe.html
☐ Subscribe to our email list for latest updates, including webinars and monthly
summaries



Becky.Bolinger@colostate.edu

@ClimateBecky
climate.colostate.edu

Thank you



