

Water Conservation & Sharing

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EDUCATION Series

COVERING WATER
ISSUES & INITIATIVES
IN LARIMER COUNTY

WATER SUPPLY & RISKS

6-8 PM

AUG 21 WATERSHED HEALTH & INSTREAM FLOWS

6-8 PM

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For additional information, visit https://col.st/KTuu3

WATER
CONSERVATION
& SHARING

6-8 PM



WHAT'S NEXT FOR LARIMER COUNTY WATER

6-8 PM



WATER COLORADO STATE UNIVERSITY EDUCATION Series

Session 2: Water Conservation & Sharing

September 20th, 6-8pm

Karen Schlatter, Colorado Water Center

Introduction & Water 101

Brett Bovee, WestWater Research Water Sharing Between Agriculture and Municipalities

Greg Peterson, Colorado Ag Water Alliance

Overview of Agriculture and Water Use

Katie Collins, Fort Collins Utilities

Urban Water Use and Conservation

Joel Schneekloth, Colorado Water Center

Agricultural Water Efficiencies and Conservation

Q&A

Open Discussion



Colorado Water 101: Conservation & Sharing

September 20, 2023

Karen Schlatter, Colorado Water Center Associate Director





Topics

- ➤ Why save water in Colorado?
- ➤ Water conservation & efficiency what do we mean?
- Conservation & efficiency in practice
- Context of water law & administration





Consumptive Water Use by Sector in Colorado

- > 90% Agriculture
- > 7% Municipalities
- > 3% Large Industry

Source: 2023 Colorado Water Plan

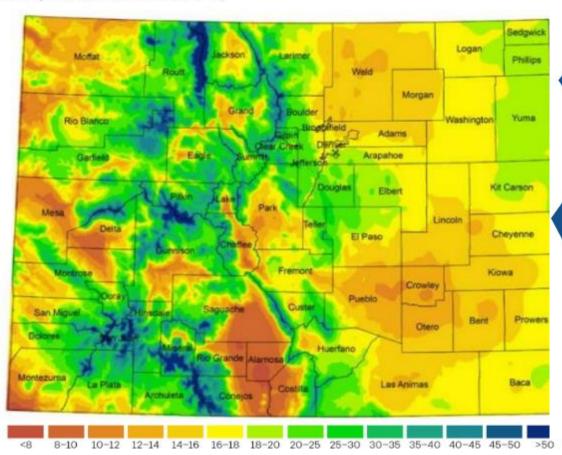


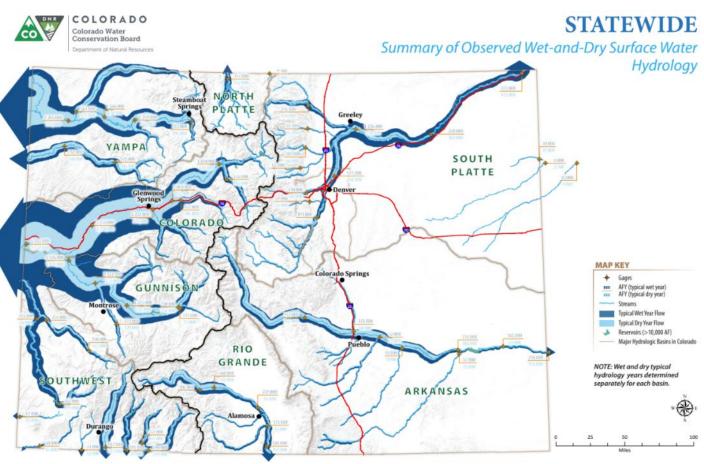
Why save water?



Average Annual Precipitation, 1981-2010

The average annual precipitation in Colorado varies with the state's topography, with some regions receiving less than 8 inches of precipitation and others receiving more than 50 inches each year. This map is based on data from 1981-2010.





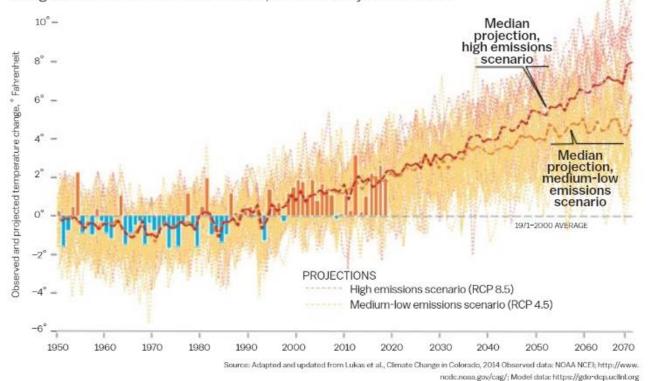
Source: 2023 Colorado Water Plan

Why save water?

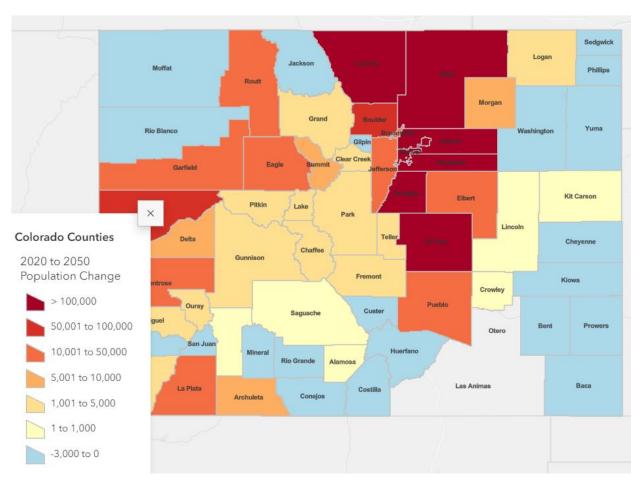


Observed and Projected Colorado Average Annual Temperatures, 1950-2070

Observed temperatures through 2018 (bars) reveal that Colorado's climate has warmed about 2 degrees Fahrenheit over the past 30 years. Projected temperatures through 2070 from 36 global climate models under a medium-low emissions scenario and a high emissions scenario all show further substantial warming. By 2050, a "normal" year in Colorado is expected to be up to 3 degrees Fahrenheit warmer than 2012, the warmest year on record.









Water Conservation

- "The beneficial reduction in water loss, waste or use."
- Policies, programs and practices designed to help people change their behaviors and use less water.
- Use only the water needed.







Water Efficiency

- "Minimization of the amount of water used to accomplish a function, task or result."
- Doing more with less water; often relies on higher tech products and fixtures like reduced water use dishwashers, or low-flow toilets and showerheads.





Source: Water Conservation by Amy Vickers; watercalculator.org



- Conservation: field scale reduction of crop water consumptive use
 (e.g. yield reduction, fallowing, alternative crops)
- Efficiency: decreasing water loss at field or farm scale while maintaining or increasing yield (sprinkler or drip irrigation system instead of flood, soil moisture monitoring)







- Prior appropriations doctrine misconception of "use it or lose it"
- 1991 Colorado Water Conservation Act & subsequent legislature
- > 2015 first state Colorado Water Plan adopted
- > 2016 rainwater harvesting made legal in CO (2-barrel limit)



Questions?



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Recommended Reading:

Water Education Colorado's Citizen's Guide to Colorado

Water Conservation: watereducationcolorado.org

