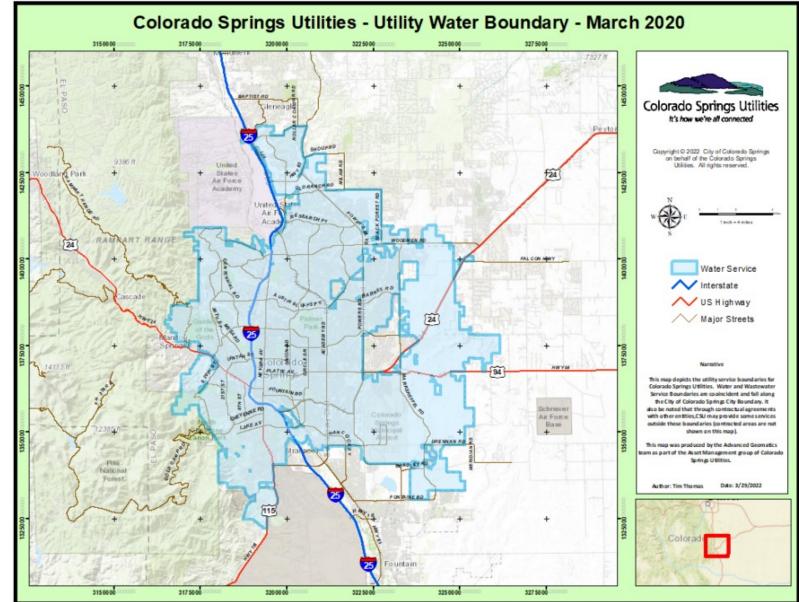
Colorado Springs Water System

- Water Collection
- Water Treatment
- Water Use
- Water Resource Recovery
- Future Planning



Our Customers

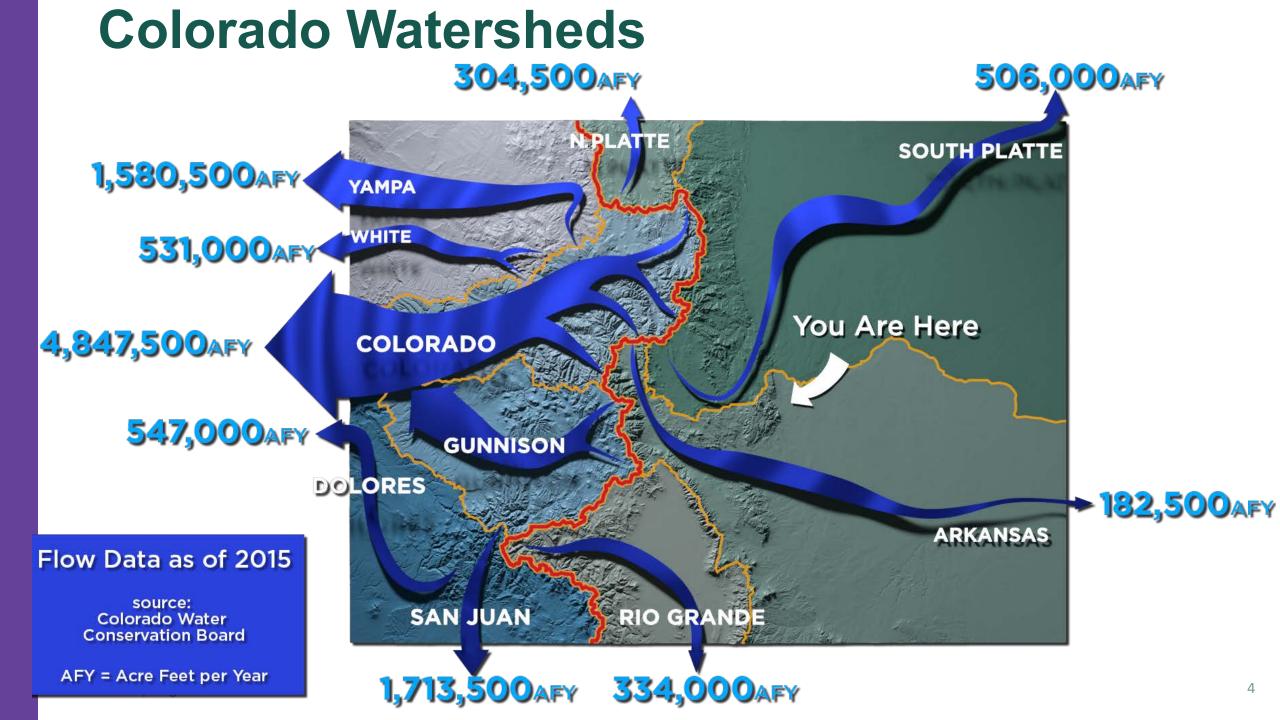
- Service Territory 195 square miles
- Serve a population of 520,000 (estimated 2021)
- City residents
- Ute Pass communities
- Military bases
- Other suburban areas outside the City limits



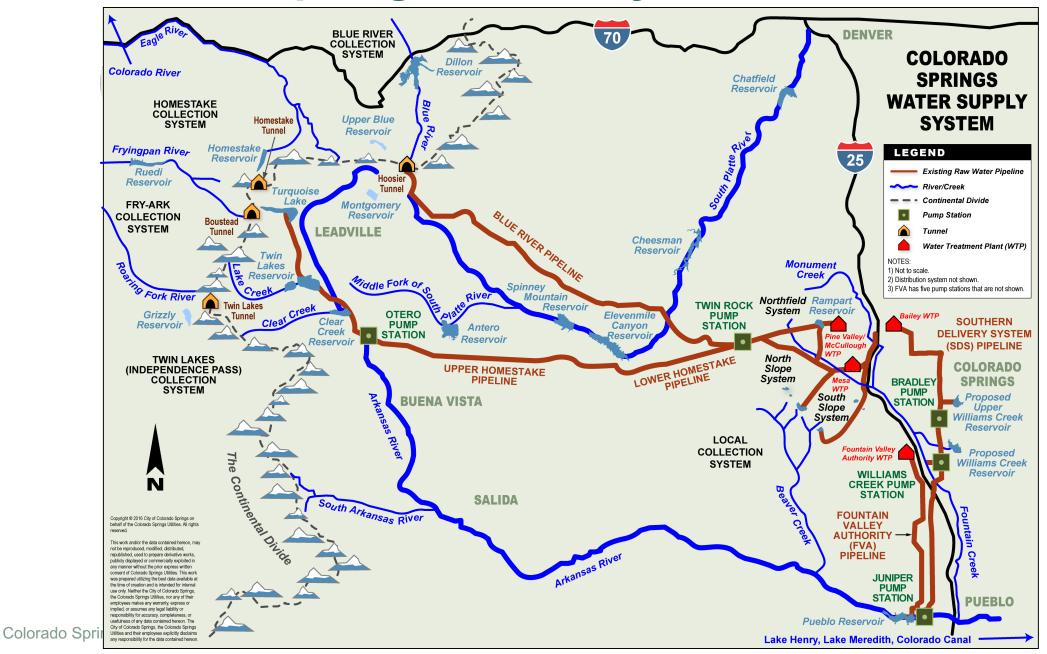
Water Collection

- Seven collection systems
- Water transported from 100 miles away
- 25 Reservoirs to store three years of supply





Colorado Springs Water System













Water Treatment

- Treatment started in 1942
- Traditional treatment
 process
- High quality water no violations
- Over 2,200 miles of distribution pipe
- Serve a population of 520,000



Water Treatment



Plant Sedimentation Basins

Water Treatment Steps:

11 11

- Coagulation and Flocculation 1.
- Sedimentation 2.
- Filtration 3.
- 4. Disinfection

Tollefson Water Treatment

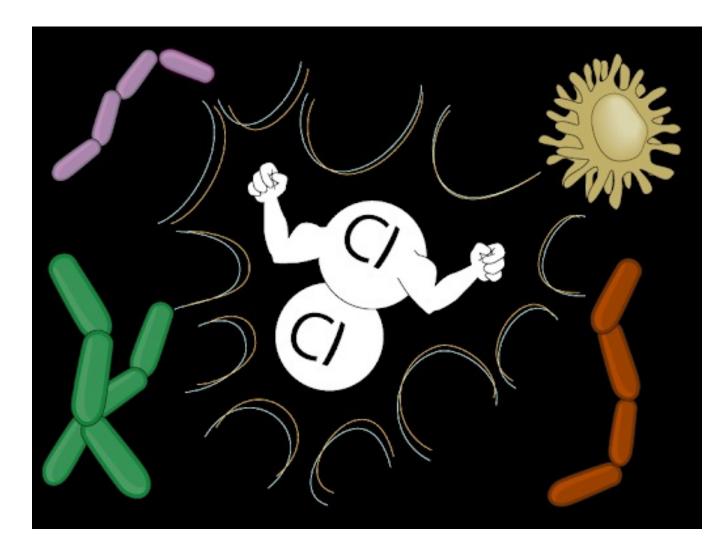
McCullough Water Treatment Plant Filter Beds

Water Filter Materials





Drinking Water Disinfection



Water Testing





Fluoride Levels In Drinking Water Colorado Springs Utilities It's how we're all connected Monthly Testing for: Fluoride Levels Pine Valley (PV) - AVG 0.20 mg/L McCullough (MC) - AVG 0.16 mg/L PV/MC - AVG 0.18 mg/L PV/Tollefson - AVG 0.58 mg/L ollefson - AVG 1.31 mg/L Tollefson/PVA - AVG 1.21 mg/L BTP/Tollefson - AVG 0.97 mg/L FVA/Tollefson - AVG 0.94 mg/L Fountain Valley - AVG 0.45 mg/L BTP/MC - AVG 0.29 mg/L Bailey - AVG 0.45 mg/L Ute Pass - AVG 0.53 mg/L 115 Esri, HERE, Garmin, SafeGra EPA. NPS. USDA

>1,000

Samples

Bacteria

Turbidity

Organics Alkalinity Metals Calcium

Chloride

Chlorine

Sulfate

Nitrate

Nitrite

Color

Others

рΗ

Colorado Springs

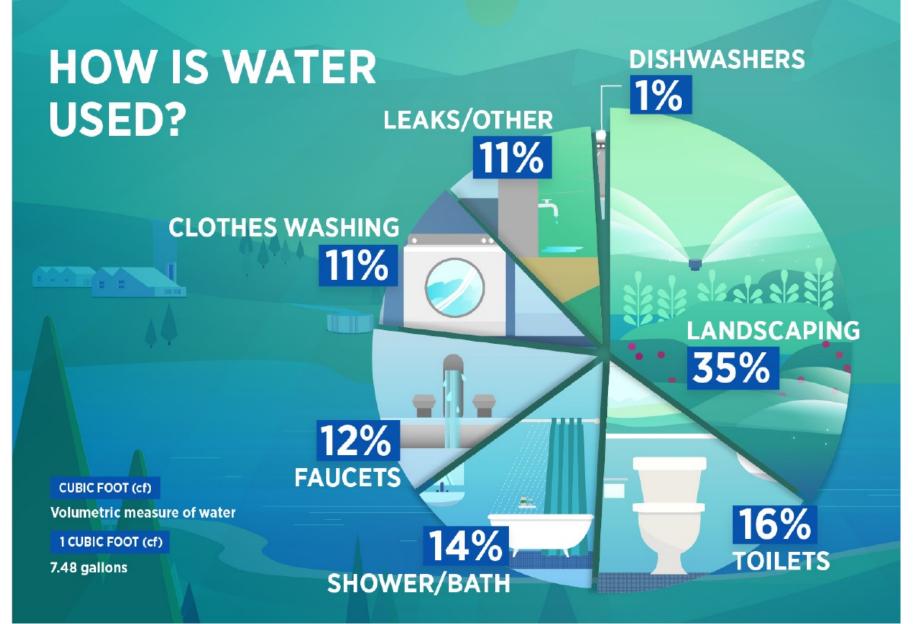
Water Use

- 68 million gallons of water served daily (averaged)
- 80 gallons per person per day
- 45% commercial use/ 55% residential use



Water Use in the Home

A Colorado Springs Resident uses an average of 80 gallons of water a day



Water Resource Recovery

- 3 Water Resource Recovery Facilities
- 38 million gallons water reclaimed daily



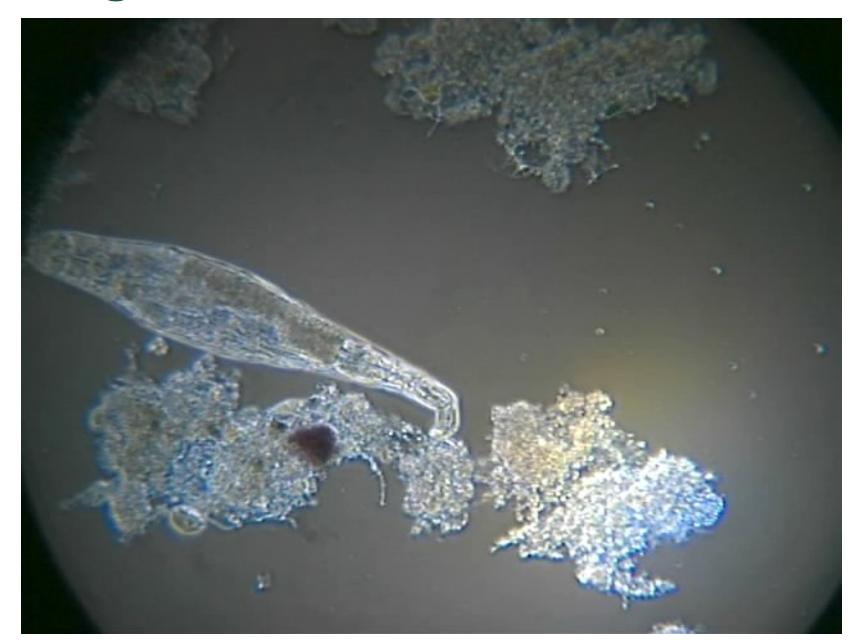
Waste Management

- Organic Solids
 Composting
- Bio Gas
- Porcelain Recycling



Activated Sludge

Microbes clean waste out of the water.



Disinfection

Inactivates or destroys pathogenic bacteria, viruses, and amoebic cysts commonly found in wastewater.

Ultra-violet (UV) light used for disinfection



Reclaimed Water



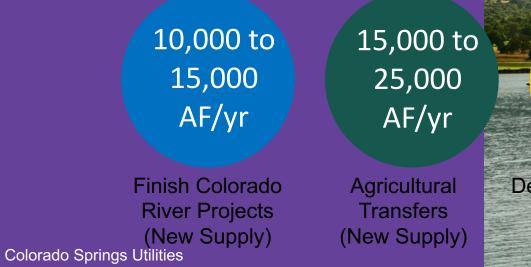
90% released to Fountain Creek for Exchange Credit

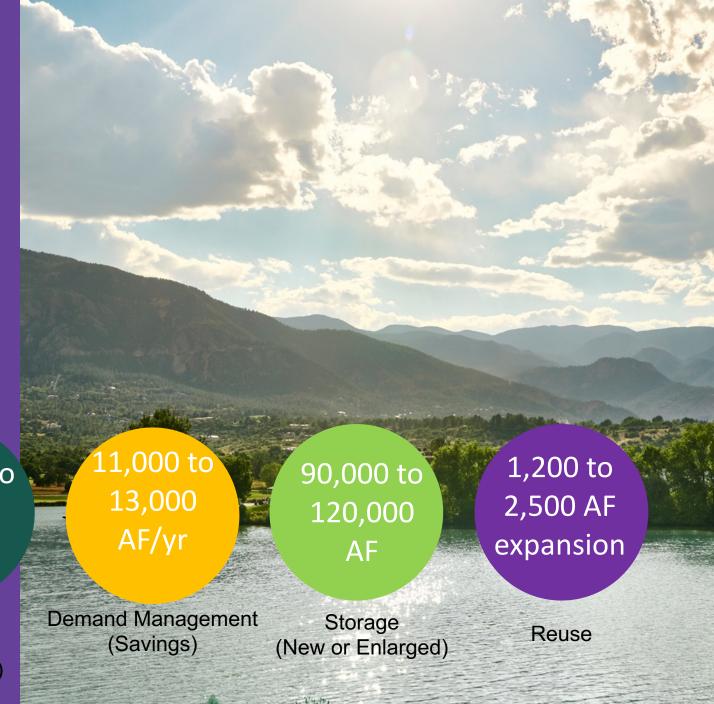


10% reused in Non-potable system

Future Planning

- Expected population of 720,000 in 2070
- Expected water use demand at buildout is 136,000 AFY
- Need additional 25,000 AFY to meet buildout demand





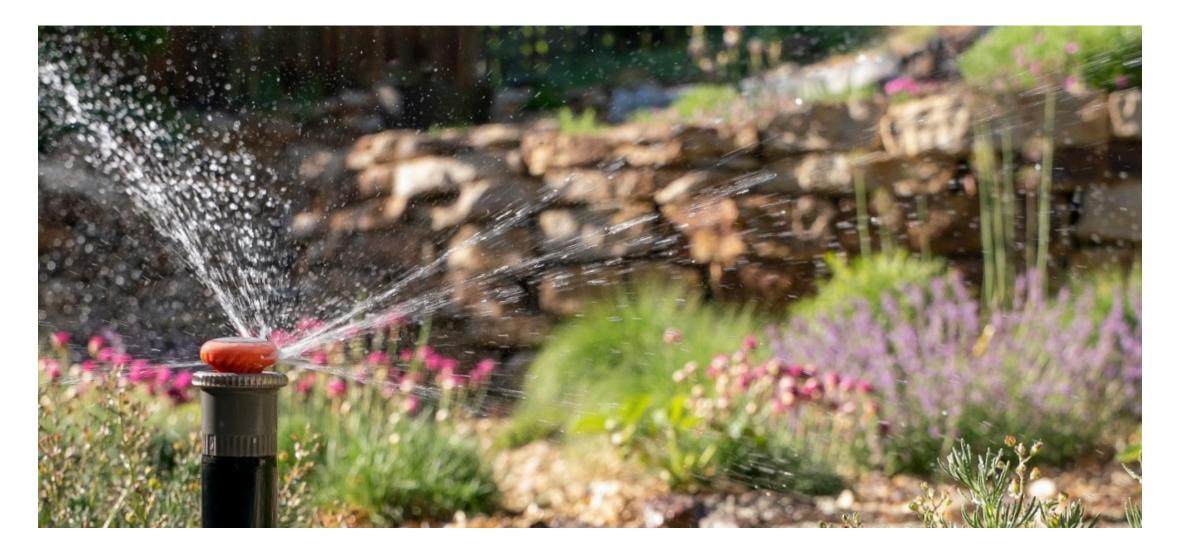
Colorado River Projects



Agricultural Water Sharing



Demand Management







REUSE

- Exchanges
- Nonpotable
- Indirect Potable
- Direct Potable







How to Get Involved

- Read our Sustainable Water Plan: <u>https://www.csu.org/Documents/IWRP.pdf</u>
- Provide input on our Water Efficiency Plan (comments due by May 30, 2022): <u>https://www.csu.org/Pages/2022WaterEfficiencyPlan.aspx</u>

• Take advantage of our classes, tours and rebates:

- <u>https://www.csu.org/Pages/EfficiencyClasses.aspx</u>
- <u>https://www.csu.org/Pages/FacilityTours.aspx</u>
- <u>https://www.csu.org/Pages/ResidentialRebates.aspx</u>

• Explore the water system interactive map:

https://storymaps.arcgis.com/stories/27e6a3b997a74be181b9e06022f478f1

Questions?

