



CASTLE ROCK WATER

APRIL 2025 MONTHLY REPORT

177.3 ^{MG}

WATER DEMAND
TOTAL

54.3%

RENEWABLE
WATER SUPPLIES

4.2

WATER SUPPLY
INDEX

SYSTEM INTEGRITY

1 leak

WATER QUALITY SAMPLING

0 issues

CUSTOMER ACCOUNTS

27,778



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infogram

WHAT WE ARE UP TO

Water Transfer from Walker Reservoir to Rueter-Hess Reservoir

By: Matt Benak, P.E., Water Resources Manager

On April 1, 2025, Town Council approved an amendment to an Intergovernmental Agreement (IGA) that Castle Rock has with Parker Water and Sanitation District (PWSD) for diversion of our water off of Cherry Creek and into Rueter-Hess Reservoir (RHR).

The original IGA, entered into in 2014, contemplated that PWSD would pick up our fully-reusable effluent (wastewater that is treated at the Pinery's wastewater plant and released back into Cherry Creek) and pump that water into RHR for storage and the Town's future use. Unfortunately, the smallest of PWSD's pumps are sized at 2,700 gpm and Castle Rock's typical effluent flow is only 85 gpm.

In February 2021, The Town became a member of the Cherry Creek Project Water Authority (CCPWA) along with the Pinery Water and Sanitation District, Cottonwood Water and Sanitation District and Inverness Water and Sanitation District. The CCPWA is a group of water providers that has formed an Authority to construct and operate a water project in the Cherry Creek Basin to provide relatively firm water yield of from 500 to 2,000 acre-feet per year. One of the key projects to firm the yield of this water was the construction of Walker Reservoir. In August 2024, the CCPWA completed the construction of Walker Reservoir and its associated infrastructure and began storing water. Walker Reservoir is a 650 AF

water storage facility located approximately ½-mile northwest of Franktown, CO and Castle Rock owns 150 AF, or 23.08% of the storage capacity.

Water is transferred into Walker Reservoir via three wells in the Cherry Creek alluvium which captures renewable water rights, and

Walker Reservoir conditions on March 26, 2025 showing nearly full pool.



via an Arapahoe aquifer well to take advantage of CCPWA's non-renewable water rights.

The Town does not have a direct connection to water stored in Walker Reservoir. However, the Town does have a connection, via the WISE local infrastructure, to water stored in RHR. By transferring the water from Walker Reservoir to Rueter-Hess, via Cherry Creek with diversion and pumping by PWSD, Castle Rock can deliver this water to its customers. Treatment is provided by PWSD's Rueter-Hess Water Purification Facility. The amended IGA with PWSD allows this to occur.

On April 2, CCPWA began releasing Castle Rock's stored water into Cherry Creek for diversion and pumping by PWSD. A total of



PWSD's diversion structure and pump station on Cherry Creek

139 acre-feet (AF) was released to the stream and, after stream losses, around 134 AF of water was put into storage into RHR. This additional stored water may help provide additional supplies to the Town during peak demand periods during the summer.

5th Street Sewer Project

The Catholic Church, St. Francis of Assisi, signed a reimbursement agreement with Castle Rock Water in April to build a sewer main to serve the church, and Global Underground started installing a sewer main on 5th street for this purpose. Castle Rock Water is working to get the sewer installed ahead of a big streets project that will start in August 2025. The contractor has started with the bore underneath 5th Street at Valley Drive.



STAFF RECOGNITION

CERTIFICATIONS



Ed Sheets
Collections 1 Operator



Jon Lutterman
Collections 2 and
Distribution 2 Operator

PROMOTIONS



Joshua Martinez
Water Plant Operator II



Taylor Voss
Water Treatment C Operator
PROMOTED to
Water Plant Operator II

WATER STAR AWARD

Grant Garvin
Plant Maintenance
Superintendent



WELCOME New Hires



Jake Austin
Distribution Operator I



Patrick Paranto
Water Plant Operator IV



Brandon Luke
Stormwater Operator I



Alex Tarnawski We took the Castle Rock Water Commission on a tour of Castle Rock Reservoir 1 & 2 and the Sedalia Pump Station. At the last minute we realized we needed a third truck to transport the Commissioners in. Alex loaned us his truck, cleaned it up and brought it over to me. I really appreciate that he changed directions at the last minute to help us out.

Josh Hansen We scheduled a tour of Castle Rock Reservoir #1 & #2 and the Sedalia Pump Station for the Castle Rock Water Commission. Josh stayed late to take them on the tour. He did a great job with the tour and answering all of the questions. Thank you so much!

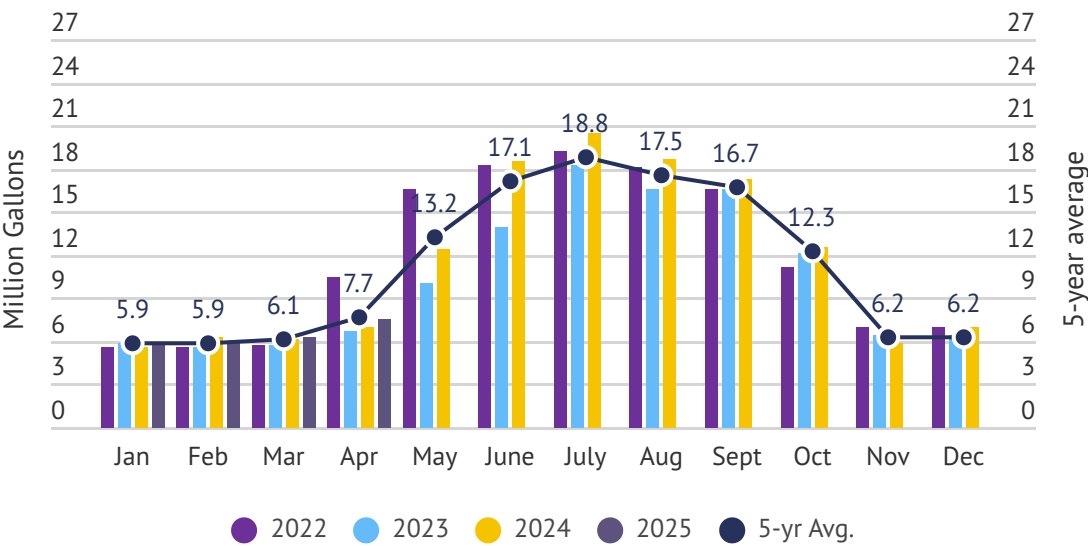
WATER RESOURCES

WATER DEMAND

Maximum demands inform us of the size of the infrastructure necessary to provide water service over short periods of time and help us to plan future water resources needs.

DAILY DEMAND

- 7.5 million gallons/day (MGD)
- 5-year average: 7.7 MGD
- 2% lower than the 5-year average



MONTHLY DEMAND

- The water demand total for April was 177.3 million gallons (MG) [544 acre-feet (AF)]
- 12% higher than the March 2025 total of 158.0 MG
- 1.7% increase from the previous year's April 2024 demand of 174.3 MG

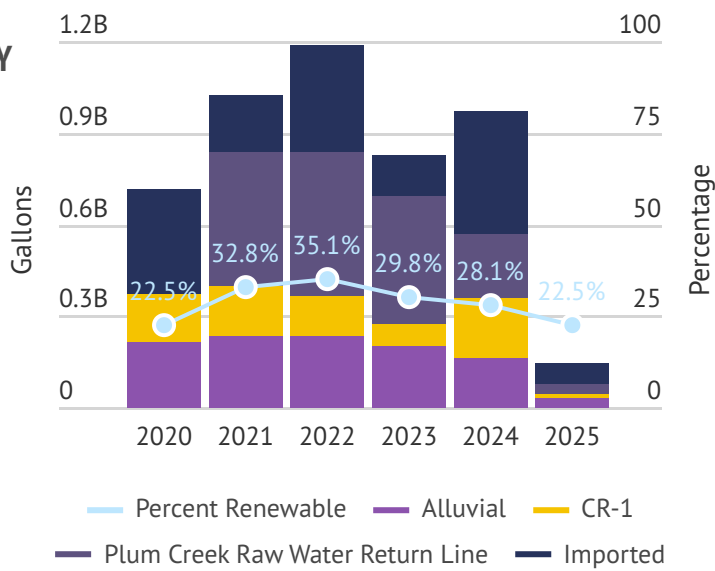
WATER RESOURCES

RENEWABLE WATER SUPPLY

Renewable supplies are those water sources that are replenished by precipitation.



2065 goal: 100%



In total, renewable supplies accounted for 4.3% of the total water supply for the month[1] (7 MG of 162 MG) and 22.5% of the annual water supply (142.8 MG of 634.6 MG)

- The CR-1 diversion produced an average of 0.0 MGD
- The PC diversion produced an average of 0.3 MGD
- The 14 alluvial wells produced an average of 0.0 MGD
- The renewable water production average was 0.23 MGD.

Plum Creek Water Purification Facility (PCWPF) was shut down February 27, 2025 for the expansion project. Thus, the renewable water for production has been greatly reduced. PCWPF came back online 5/1/25.

REUSABLE SUPPLIES

Reusable supplies are waters that are either from the non-tributary Denver Basin (deep wells) or imported supplies (such as WISE) that can be used over and over, to extinction.



STORAGE

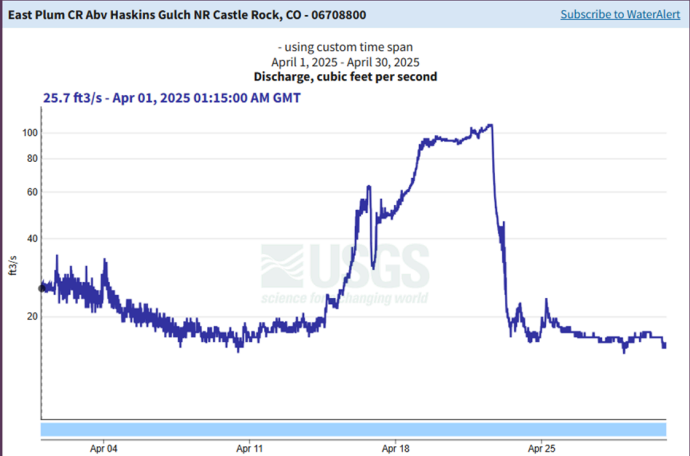
- Chatfield Reservoir: 2,000 AF
- Rueter-Hess Reservoir: 609 AF
- Castle Rock Reservoir No. 1 (CRR1): 0 AF
- Castle Rock Reservoir No. 2 (CRR2): 347.48 AF

WATER RESOURCES

EAST PLUM CREEK FLOWS

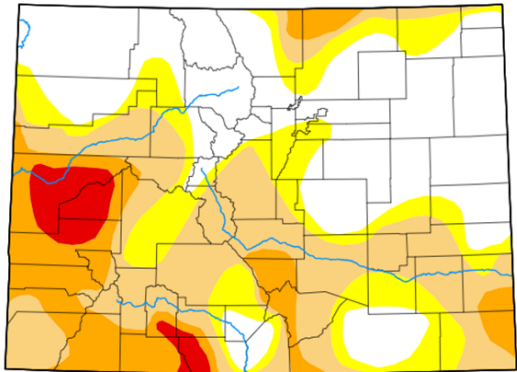
The hydrograph indicates the estimated flow in East Plum Creek basin.

- Flows ranged from 14.4 to 107 cubic feet per second (cfs)
- The monthly average streamflow was 32.6 cfs
- The 25-year mean is 54 cfs



DROUGHT According to the most recent U.S. Drought Monitor maintained by the United States Department of Agriculture (USDA), northern Douglas County is experiencing drought conditions.

Colorado



Map released: Thurs. May 1, 2025

Data valid: April 29, 2025 at 8 a.m. EDT

Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

Authors

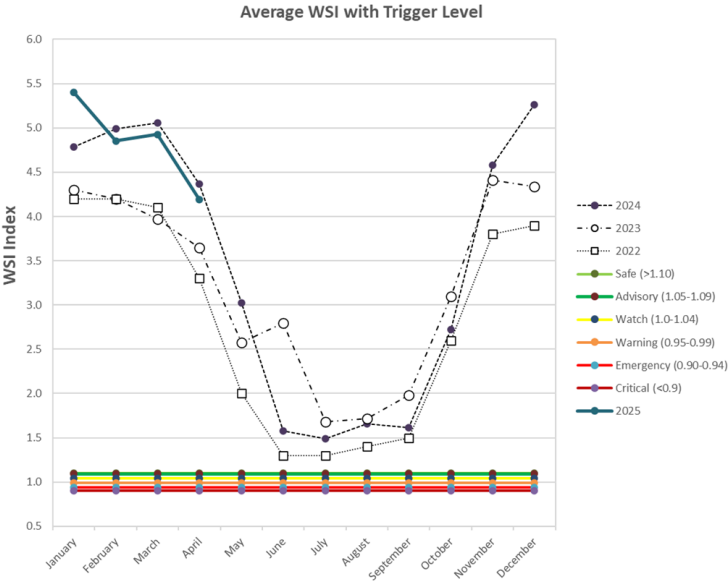
United States and Puerto Rico Author(s):

[Richard Tinker](#), NOAA/NWS/NCEP/CPC

Pacific Islands and Virgin Islands Author(s):

[Lindsay Johnson](#), National Drought Mitigation Center

WATER SUPPLY INDEX

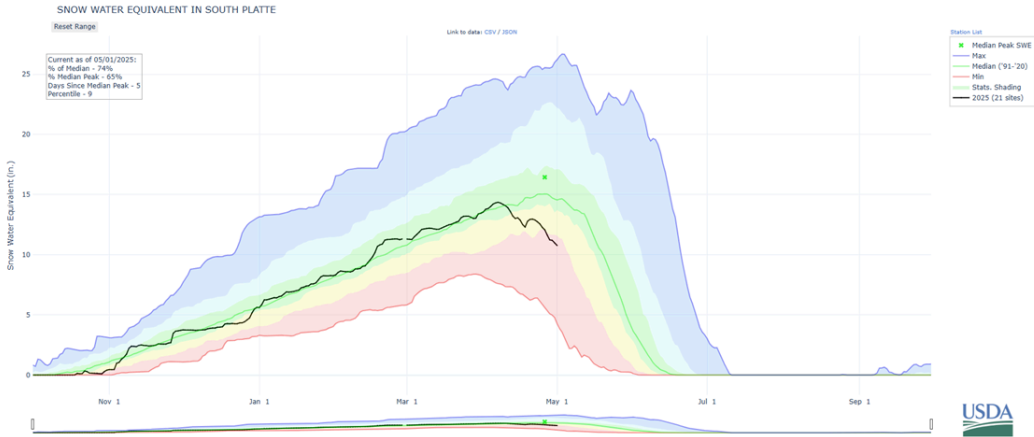


4.2
WSI

The Town of Castle Rock’s Drought Management Plan uses a Water Supply Index (WSI) for the Town that accounts for local conditions relative to the Town’s capability to address our water resources and daily water demands. Anything below 1.1 will trigger a drought stage relative to its severity.

SOUTH PLATTE RIVER BASIN SNOW PACK

- Year-to-date precipitation at 90% of median
- Snow Water Equivalent (SWE) at 74% of median

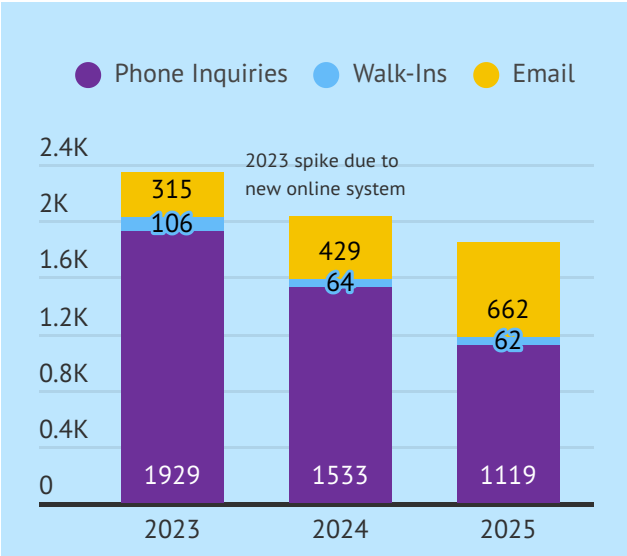


BUSINESS SOLUTIONS

CUSTOMER SERVICE



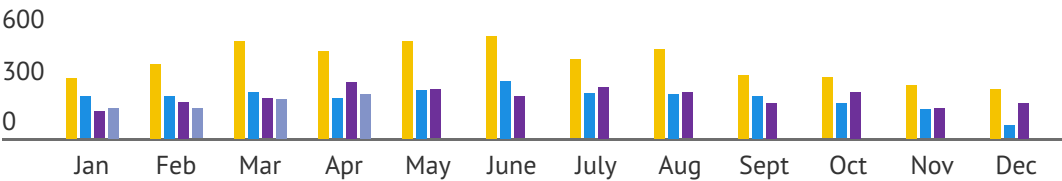
Customers with an online account:
60%



TRANSFER OF SERVICE

Transfers of service represents the start/stop for service for new properties and those changing ownership.

2022 2023 2024 2025



CUSTOMER OUTREACH

OUTLET	POST	REACH		
Facebook	9 posts	16.5k reach	98 engagement shares	14 shares
Instagram	6 posts	6.8k reach	176 engagement	9 shares

Email	11,941	55% open rate		
HOA mail	116	56% open rate		

TOPICS
ColoradoScape
Design Sweepstakes

METER SERVICES

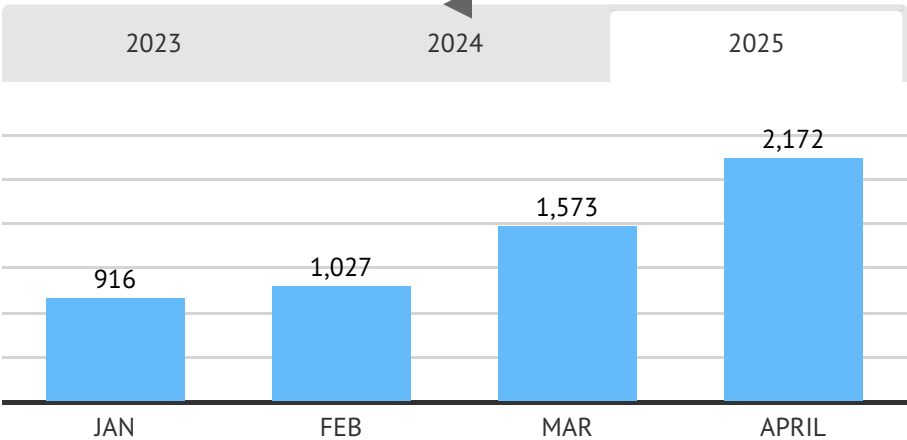
Meters are read the first two days of every month. Castle Rock Water utilizes drive-by and AMI technology.



Measuring skipped reads is a strong indication of the level of preventative maintenance being done by our team.

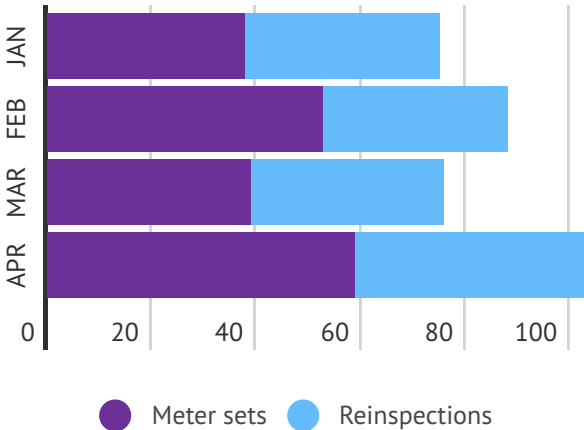
ALL SERVICE WORK ORDERS

Standard work orders include meter replacement and AMI upgrade, bulk hydrant move-outs, curb stop maintenance, MXU installation, flow detection, and pressure checks.



METER SET INSPECTIONS

Meter set inspections, to ensure code compliance, are required on all new meters installed. At the time of the inspection, the curb stop is tested for operability and the MXU is installed which provides reading capability for our drive by technology.



OPERATIONS

0

OUTAGES

GOAL: <5 % of our customers will experience water outage for one or more events totaling more than 30 hours per year.

0

PRESSURE

GOAL: 1% of our customers will experience less than 43 pounds per square inch (psi) of pressure at the meter during normal operations.

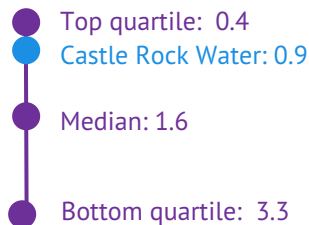
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OVERFLOWS

GOAL: Prevent 100% of sewer system overflows with line inspections and cleaning.

SANITARY SEWER OVERFLOWS

AWWA Index: SSO rate/100 mi



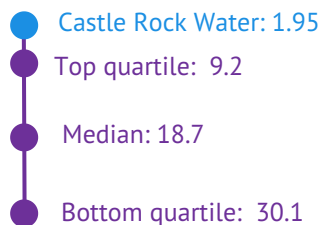
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LINE BREAKS

GOAL: Remain in the top quartile for AWWA benchmarking for leaks and breaks through regular maintenance and rehabilitation.

WATER SYSTEM INTEGRITY

AWWA Index: Leaks and breaks/100 mi



1595

UTILITY LOCATES

25.02 mi

LINES INSPECTED

LINES CLEANED

3.96 mi