ARKANSAS VALLEY CONDUIT COMMITTEE MEETING

AVC Update

Presentation Report

Date: July 7, 2022 Agenda Item: VI.A.

STAFF RECOMMENDATIONS:

Information

BUDGET IMPLICATIONS:

Information

PREVIOUS BOARD ACTION AND/OR ACTIVITY:

The Arkansas Valley Conduit (AVC) Committee has not met with participants as a group since 2018, when the Enterprise began revising the AVC Project. Some Board members and staff have met individually or in small groups with the participants, and with counties in which participants operate water systems.

ISSUE SUMMARY DESCRIPTION:

The purpose of the July 7 meeting is to update the participants on the progress of the AVC, and to allow participants to ask questions about the AVC Project.

Based on some questions from some of the participants, staff understands that a broader presentation of the AVC is needed in order to remind participants that this is a complicated, collective effort that has been a long time in the making, rather than just a bill in the mail box.

The presentation will include:

- > SECWCD History Why the District was formed, what it provides.
- > Fry-Ark History The scope and purpose of the Fryingpan-Arkansas Project.
- Fry-Ark Operations How the Project operates.
- Storage for AVC Project and Excess Capacity storage options for AVC participants.
- ➤ AVC Construction Plan How the AVC will be built, presented in a countyby-county format that will be easy to understand.

Arkansas Valley Conduit Committee

July 7, 2022

- ➤ Local Consolidation Areas of the AVC that have been identified as places where consolidation makes sense and can save money.
- ➤ Three-Party Contract The purpose for the contract among Reclamation, SECWCD and Pueblo Water to save time and money for AVC.
- Repayment Contract What participants ultimately will pay as a proportion of AVC.
- ➤ Financial Benefits The potential financial benefits of the AVC to communities.
- ➤ Water Quality Benefits The solution to persistent water quality issues that have haunted the Arkansas Valley for years.
- ➤ Construction Schedule How soon we are planning to build AVC and the potential for an expedited plan that will get it done more quickly.
- ➤ Governance Structure The development of a governance structure that will provide answers to some of the unknowable questions of how AVC will function.

Following the presentation, staff will field questions from participants about the AVC.

SUGGESTED MOTION:

Information

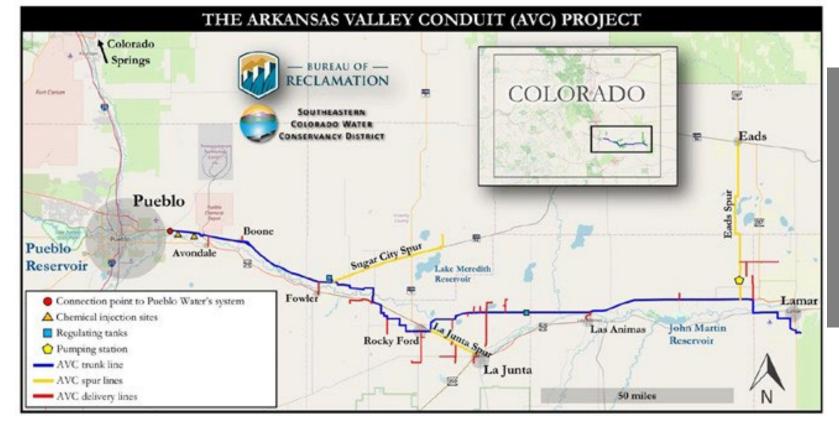
ATTACHMENTS:

Attachment 1: Arkansas Valley Conduit: Construction Plan & AVC Project Update (Draft, not for distribution)

Arkansas Valley Conduit

Construction Plan & AVC Project Update 2022





What is the AVC?

The drinking water lifeline will serve 50,000 people on 39 water systems east of Pueblo. The AVC is needed because water sources in the Arkansas Valley are unreliable, unsustainable, and/or of poor quality requiring advanced treatment.



AVC Overview

AVC water is stored in Pueblo Reservoir. Pueblo Water treats and delivers the water.
Reclamation is building a 130-mile trunk line from Pueblo to Lamar. SECWCD is building the spur and delivery lines.

- > SECWCD History
- > Fry-Ark History
- > Fry-Ark Operations
- Storage for AVC
- AVC Construction Plan
- Local Consolidation
- ➤ Three-Party Contract
- Repayment Contract
- > Financial Benefits
- Water Quality Benefits
- Construction Schedule
- Governance Structure



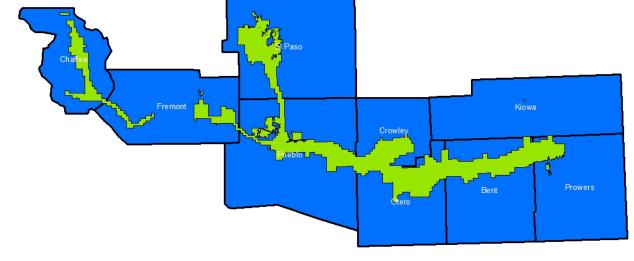
Southeastern Colorado Water

Conservancy District

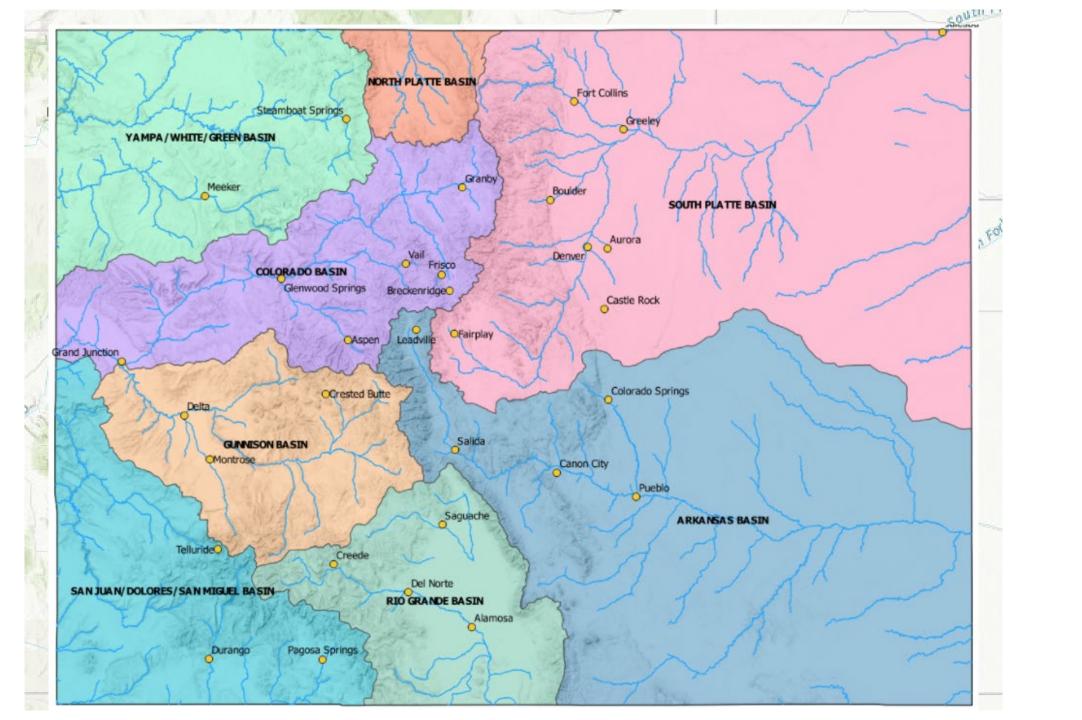
(SECWCD)

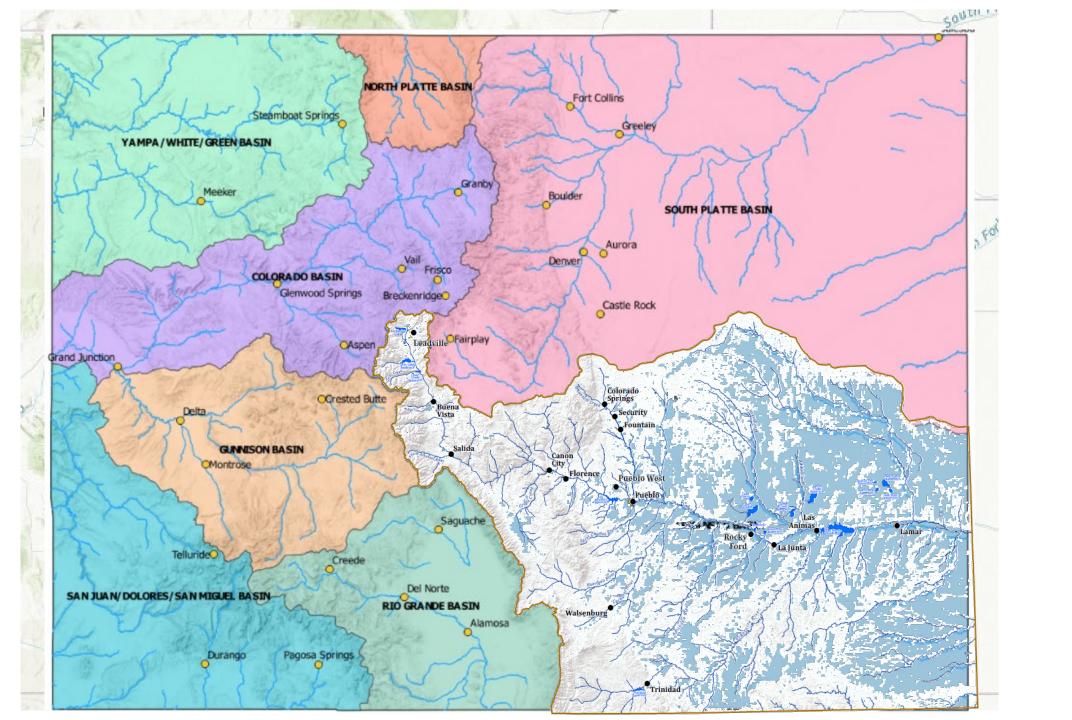
Why was the SECWCD formed?

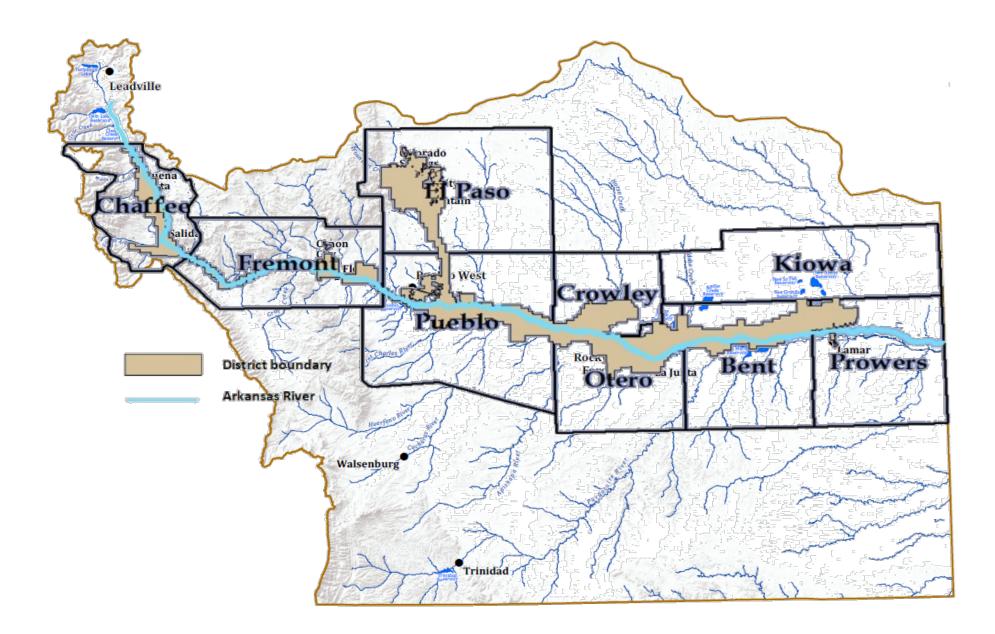
SECWCD was created in 1958 to continue an effort to gain federal approval of the Fryingpan-Arkansas Project. The idea for the Project was developed in the 1920s, and widely promoted in the 1950s. The Fry-Ark Project always included the AVC.

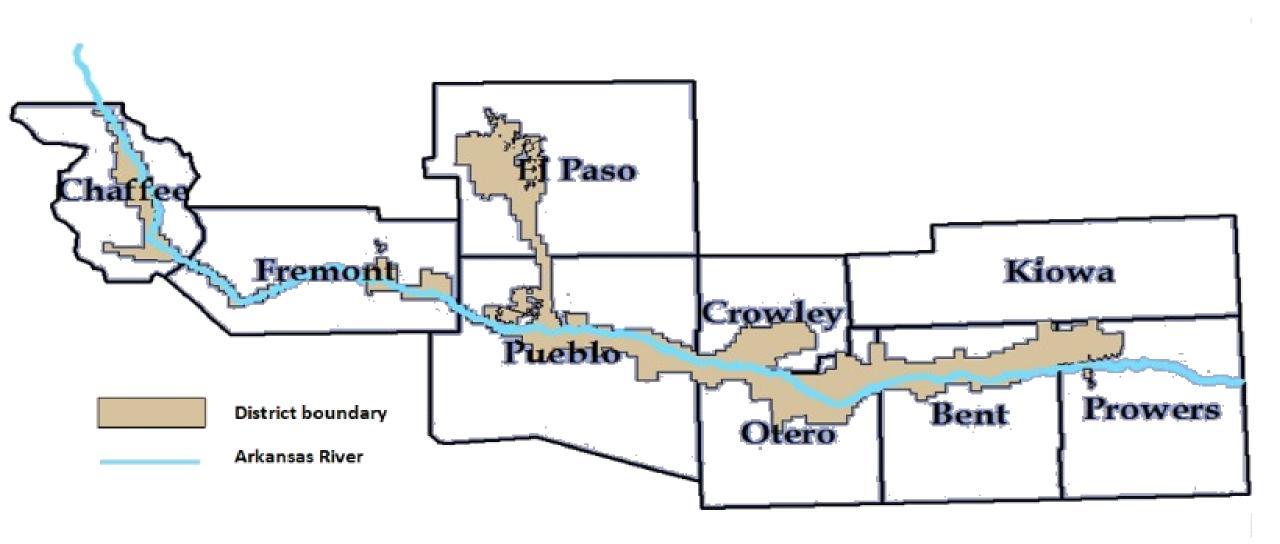














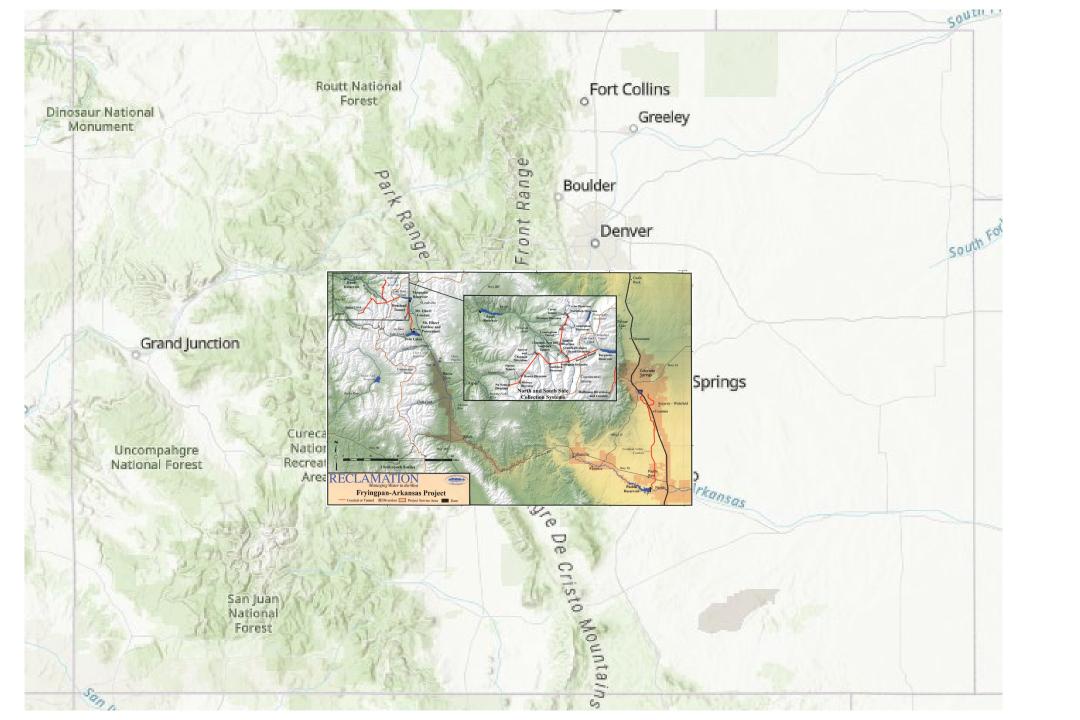
Fryingpan-Arkansas Project

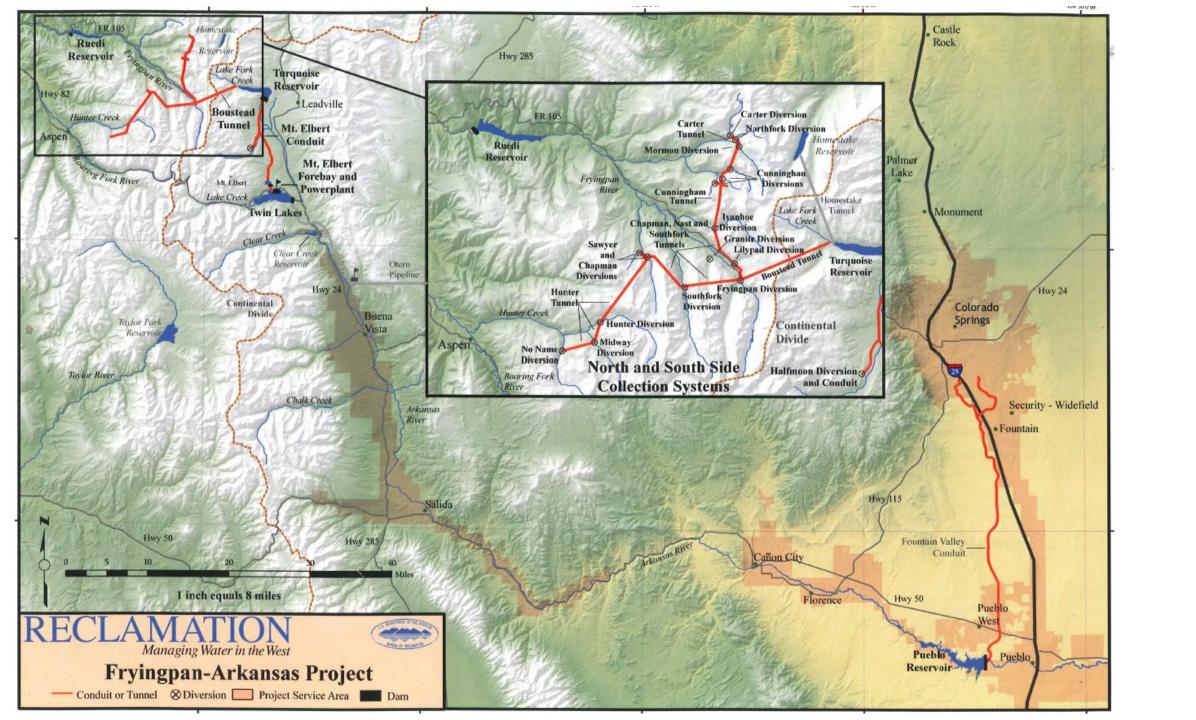
- Signed into law in 1962
- Reclamation owns and operates the Fry-Ark Facilities
- SECWCD owns the water rights
- SECWCD manages water resources
- SECWCD pays 56% OM&R
- SECWCD repays debt (2031)
- SECWCD holds reserve fund

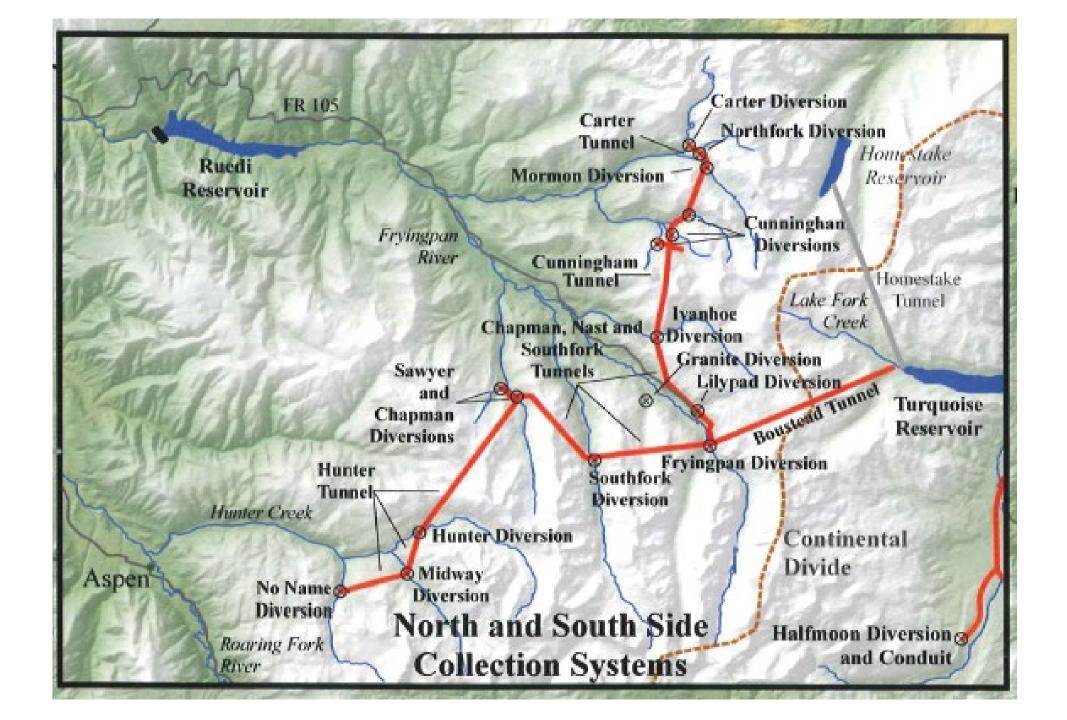
Who pays for the Project?

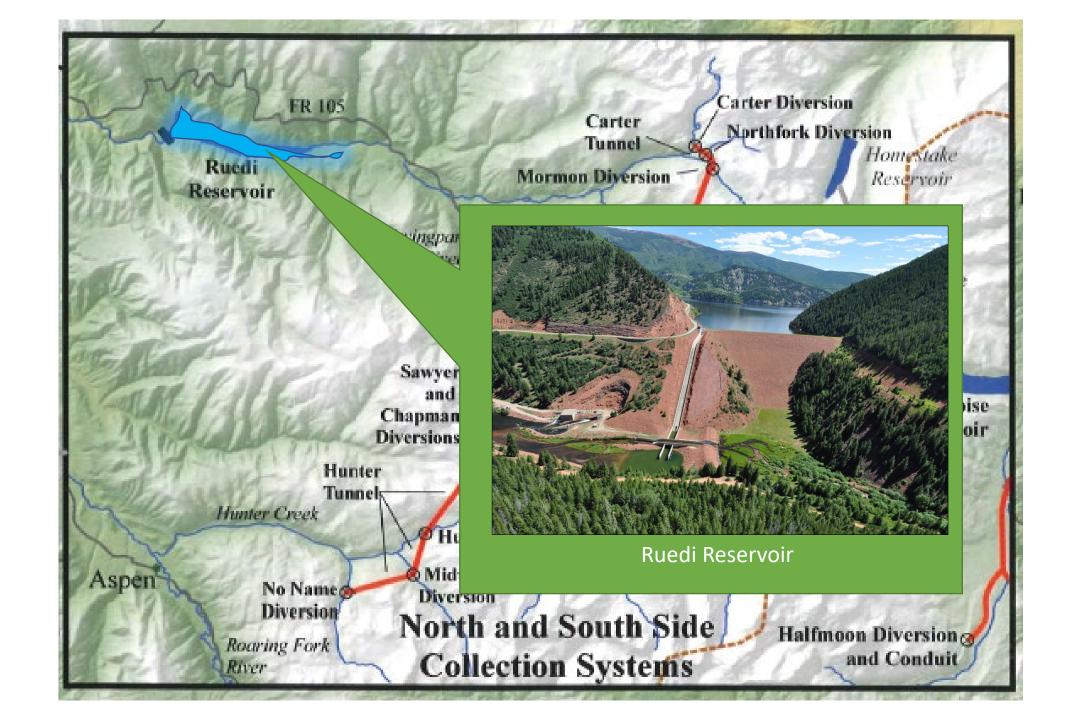
A property tax of 0.9 mills is assessed in parts of 9 counties, included the 6 counties in the AVC. This generated \$8.9 million in 2022. The money is used to repay construction costs, pay for Project operations and to generate reserves for future improvements.

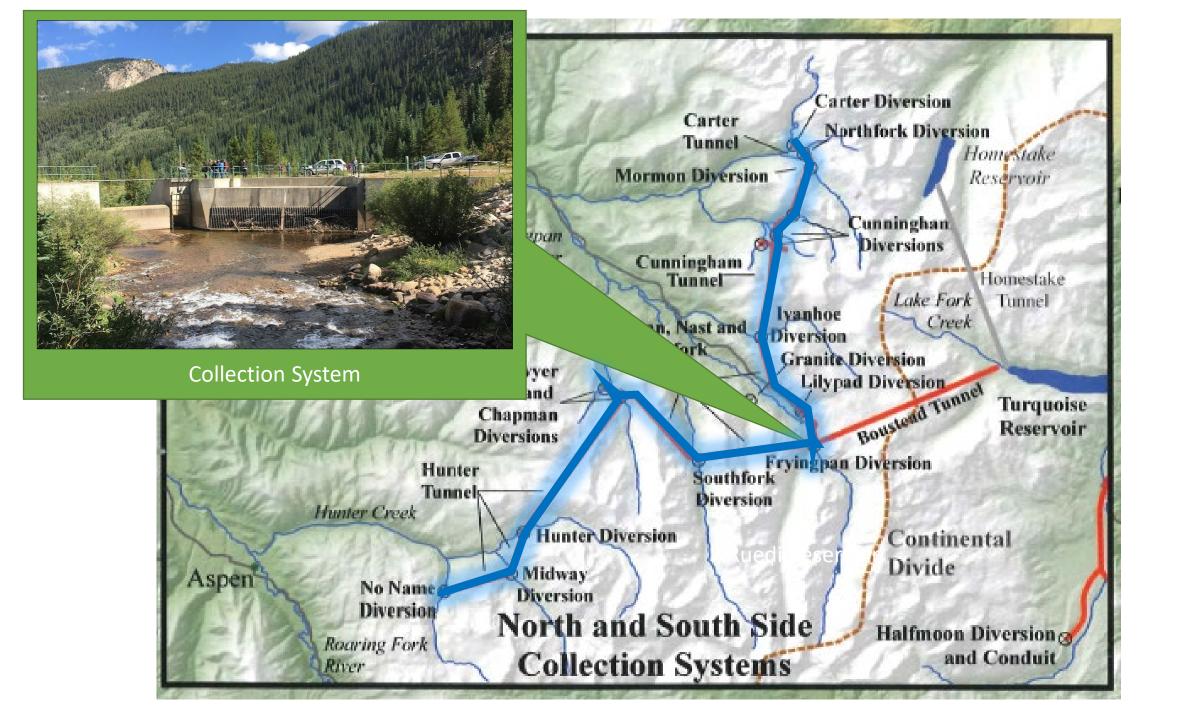


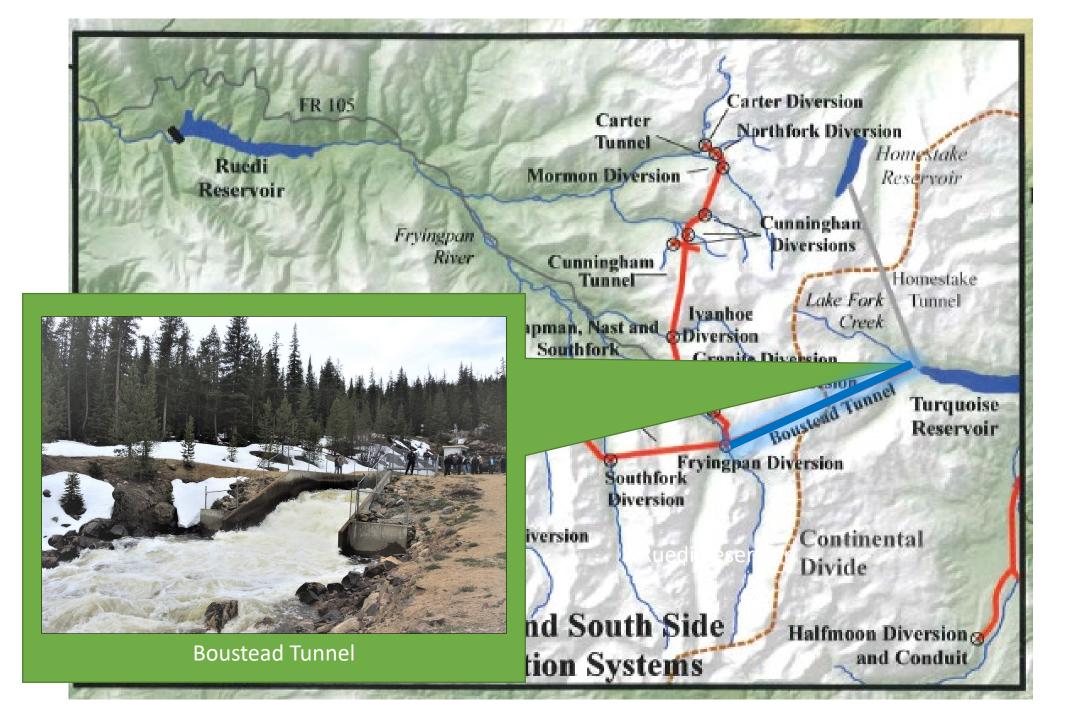


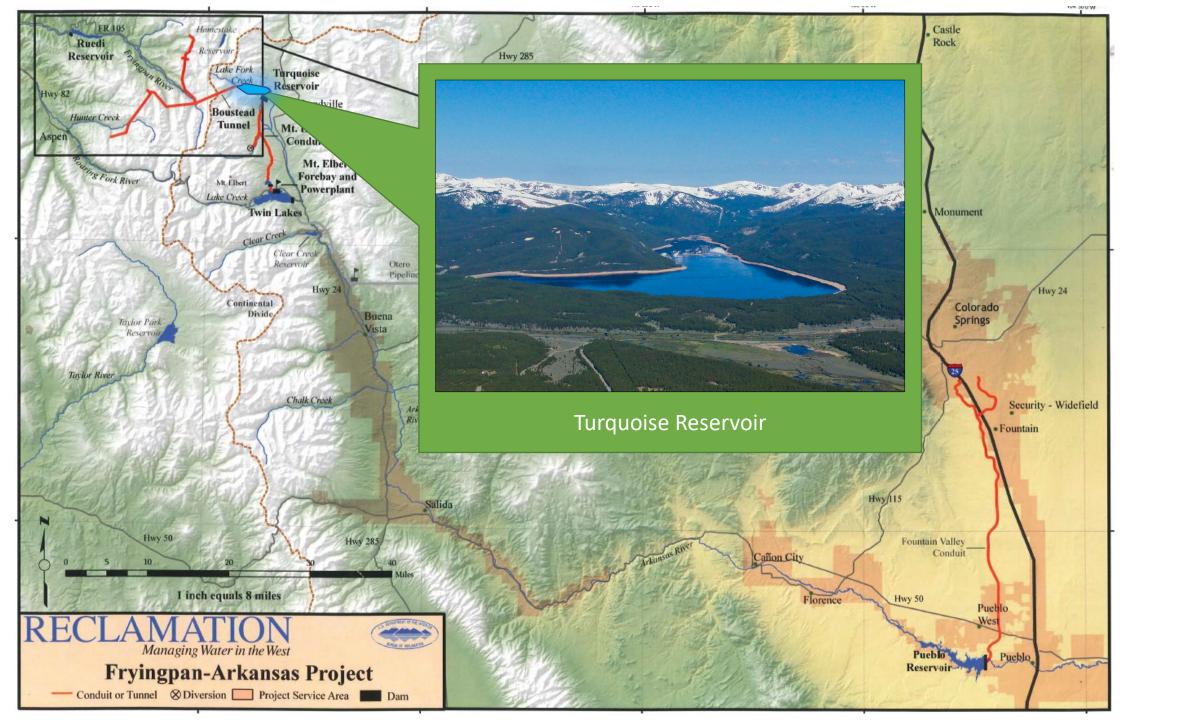


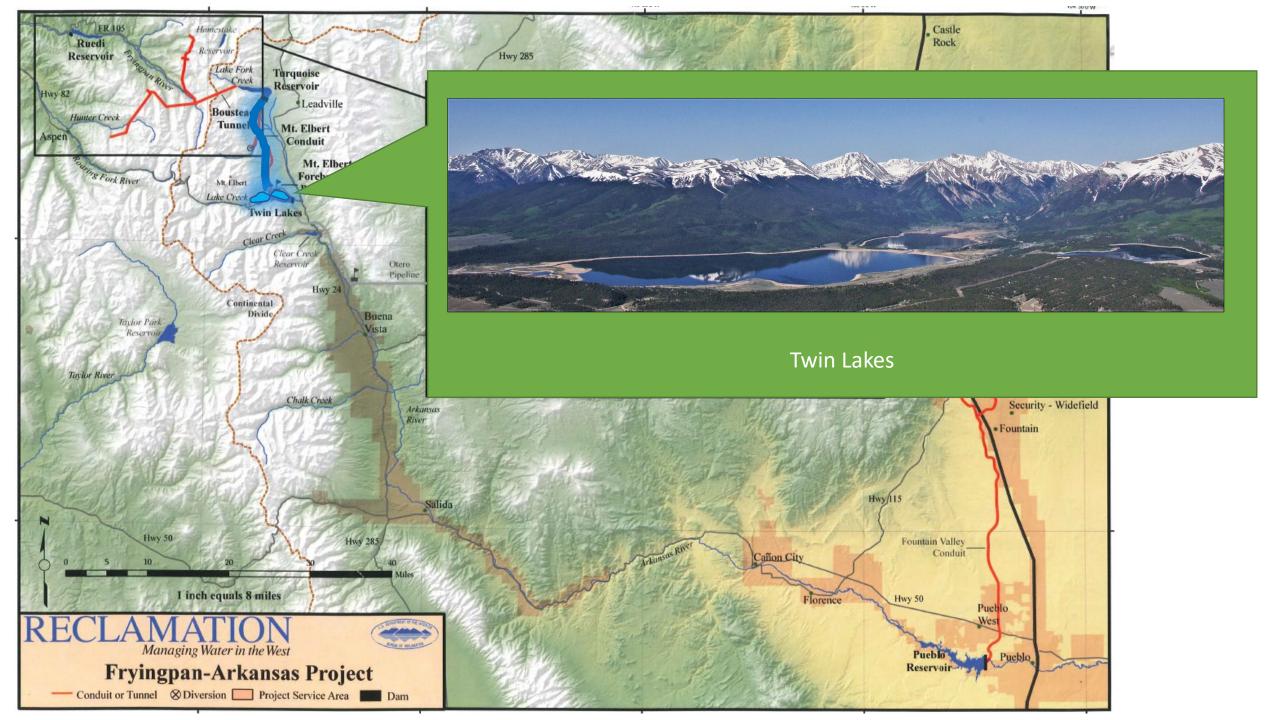


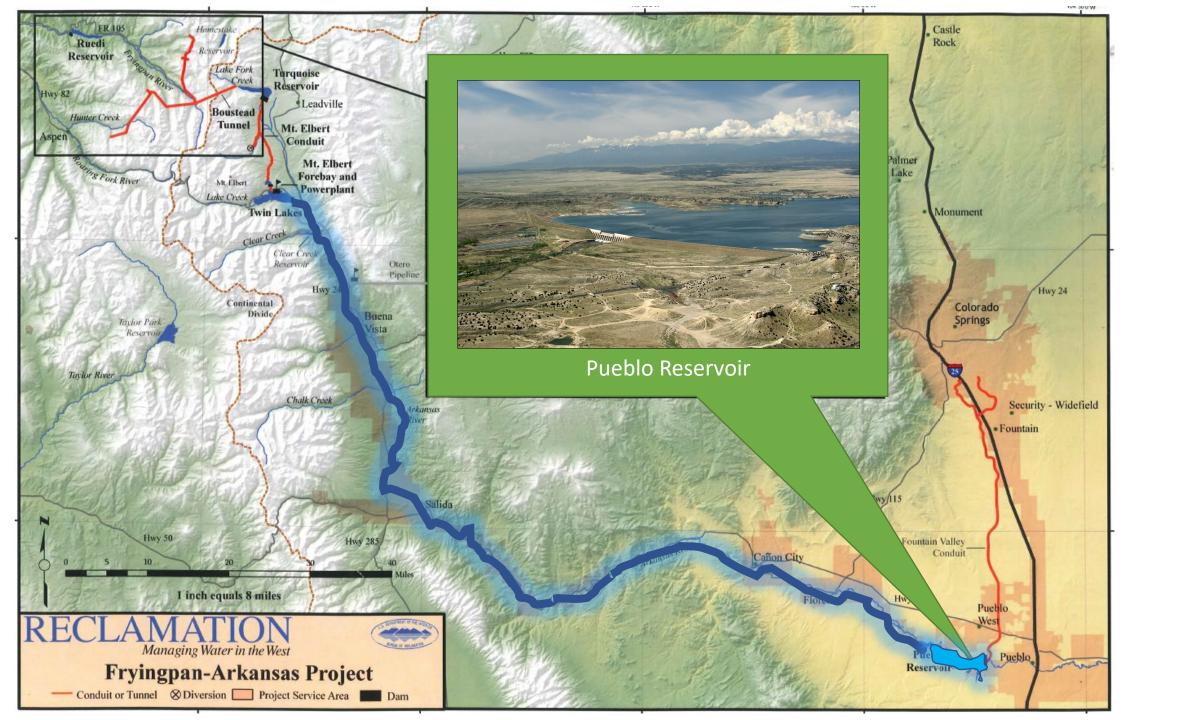














2009 Fryingpan-Arkansas Law

The 1962 Fryingpan-Arkansas
Project Act was revised in 2009
(PL111-11) to allow miscellaneous
revenues from the Project to be
applied to portions of the Project
that were not fully funded. AVC
fell into the underfunded category.

Why was the AVC never built until Now?

A steering committee in 1978 concluded that the AVC was too costly for participants to build on their own. The AVC concept was revived in 2000. The 2009 law reduced participants' share to 35%, making the AVC more affordable.

All AVC participants have signed a 2011 agreement for development of the AVC. To date, they have invested more than \$1.5 million toward making the AVC a reality.

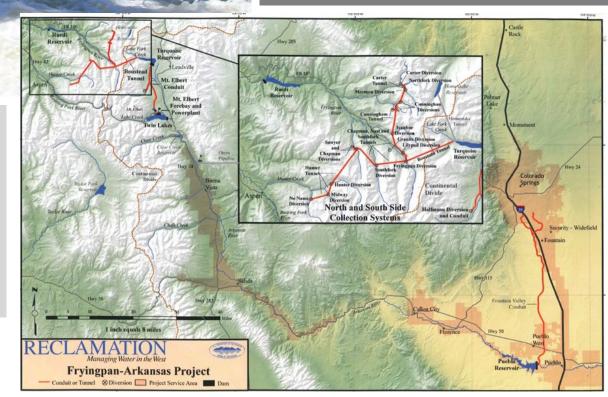


Fryingpan-Arkansas Project

The Project brings over an *average* of 57,820 acre-feet of water annually. After accounting for prior obligations, evaporation and transit loss, about 44,000 acre-feet are available for allocations.

How much Project Water goes to the AVC?

About 11% of Fry-Ark Project Water allocations, or 5,000 acre-feet, are available for AVC on average. Communities are apportioned the water according to calculations in 2011, based on taps, population and input from water providers.





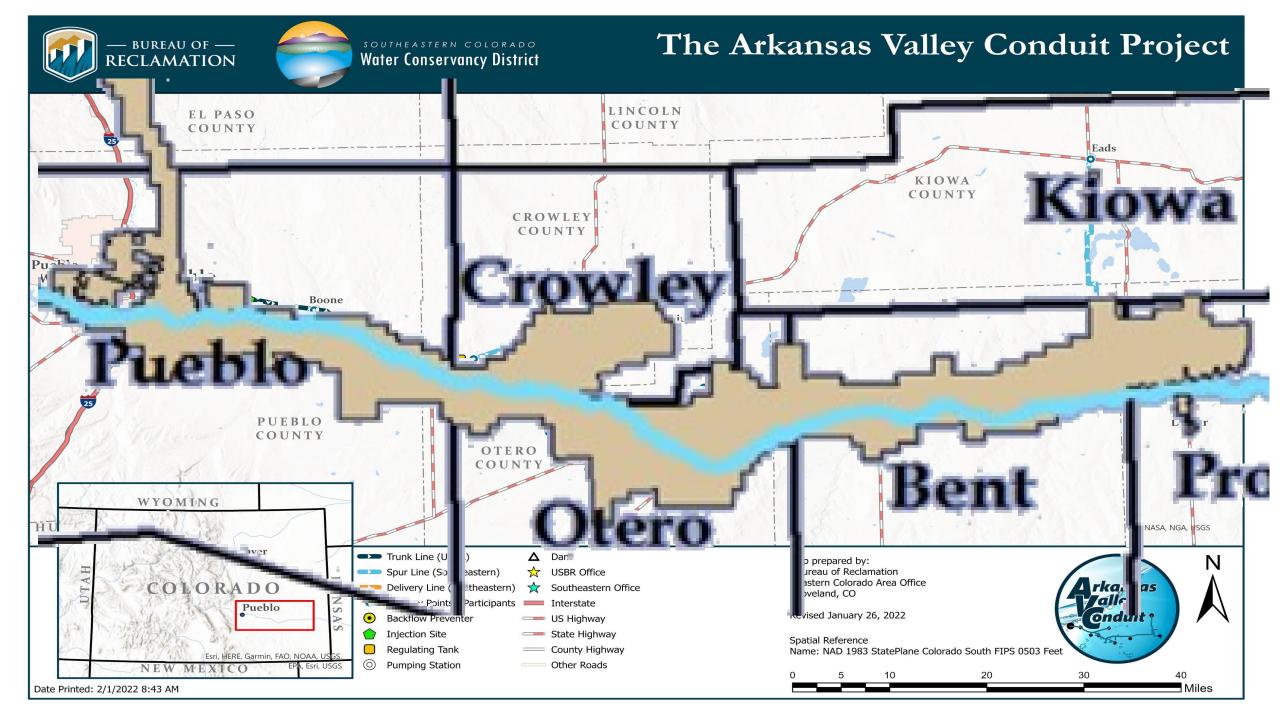
Fryingpan-Arkansas Project

Project Water is collected on the West Slope and brought in through the Boustead Tunnel to Turquoise Lake, and eventually flows down the Arkansas River to Pueblo Reservoir.

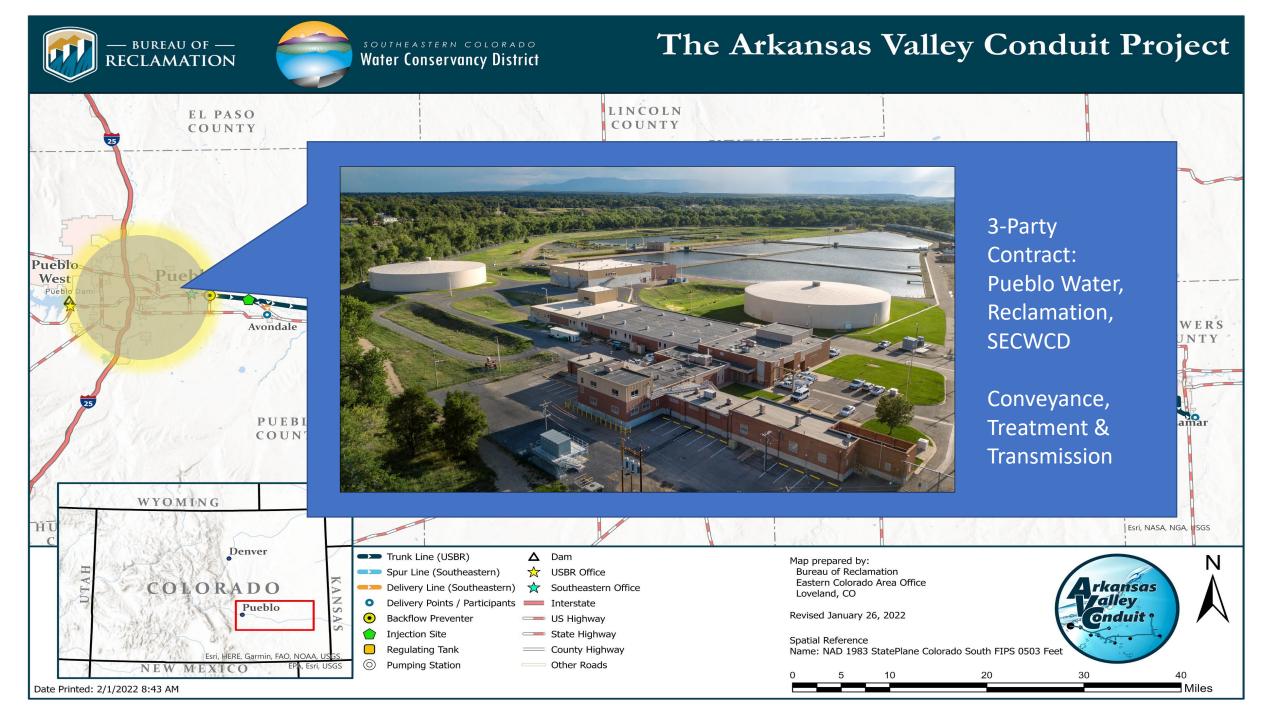
How much AVC storage is available?

AVC participants collectively have 29,930 acrefeet of storage in Pueblo Reservoir for Project Water, and 6,267 acre-feet of "if-and-when" storage. Combined, that is more than a 4-year supply for AVC water.





The Arkansas Valley Conduit Project SOUTHEASTERN COLORADO – BUREAU OF — **RECLAMATION Water Conservancy District** LINCOLN EL PASO COUNTY COUNTY KIOWA COUNTY CROWLEY COUNTY Pueblo Pueblo West Pueblo Dam Sugar City Ordway 2 PROWERS Avondale COUNTY BENT COUNTY Las Animas PUEBLO COUNTY OTERO COUNTY La Junta WYOMING Esri, NASA, NGA, USGS Denver Trunk Line (USBR) △ Dam Map prepared by: USBR Office Bureau of Reclamation Spur Line (Southeastern) Eastern Colorado Area Office rkansas COLORADO ★ Southeastern Office Delivery Line (Southeastern) Loveland, CO Talley Delivery Points / Participants Interstate Pueblo Onduit Revised January 26, 2022 Backflow Preventer US Highway Injection Site State Highway Spatial Reference Regulating Tank County Highway Name: NAD 1983 StatePlane Colorado South FIPS 0503 Feet **Pumping Station** Other Roads NEW MEXICO Miles Date Printed: 2/1/2022 8:43 AM



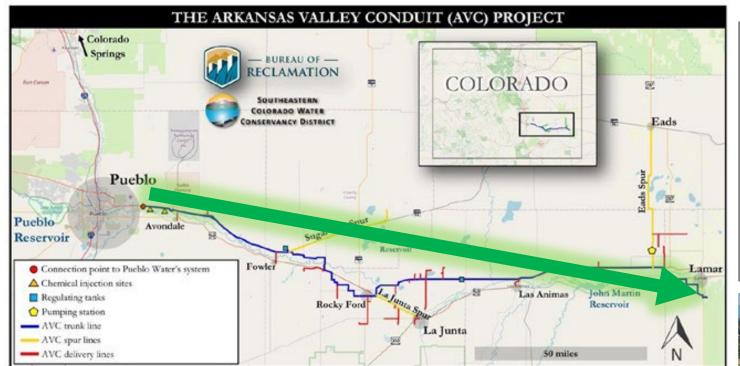


Three-Party Contract

Reclamation, SECWCD, and Pueblo Water signed a contract that provides for full treatment of AVC water and delivery through Pueblo's System to the connection point east of Pueblo.

What will Pueblo Water provide?

- Conveyance of water from Pueblo Dam
- > Complete treatment at the Whitlock Plant
- Delivery of water to the beginning of the AVC trunk line



AVC Construction Plan

Reclamation will build a 130-mile trunk line from Pueblo to Lamar after Pueblo conveys, treats and delivers water. SECWCD's Enterprise Activity will build about 100 miles of spur and delivery lines.

What will construction cost participants?

AVC's total cost will be about \$600 million.

Participants will not pay for any additional costs for the trunk line of Pueblo Water connection.

Participants will repay about 10% of the overall costs (spur and delivery line construction costs) that will be offset by grants and other cost saving measures.



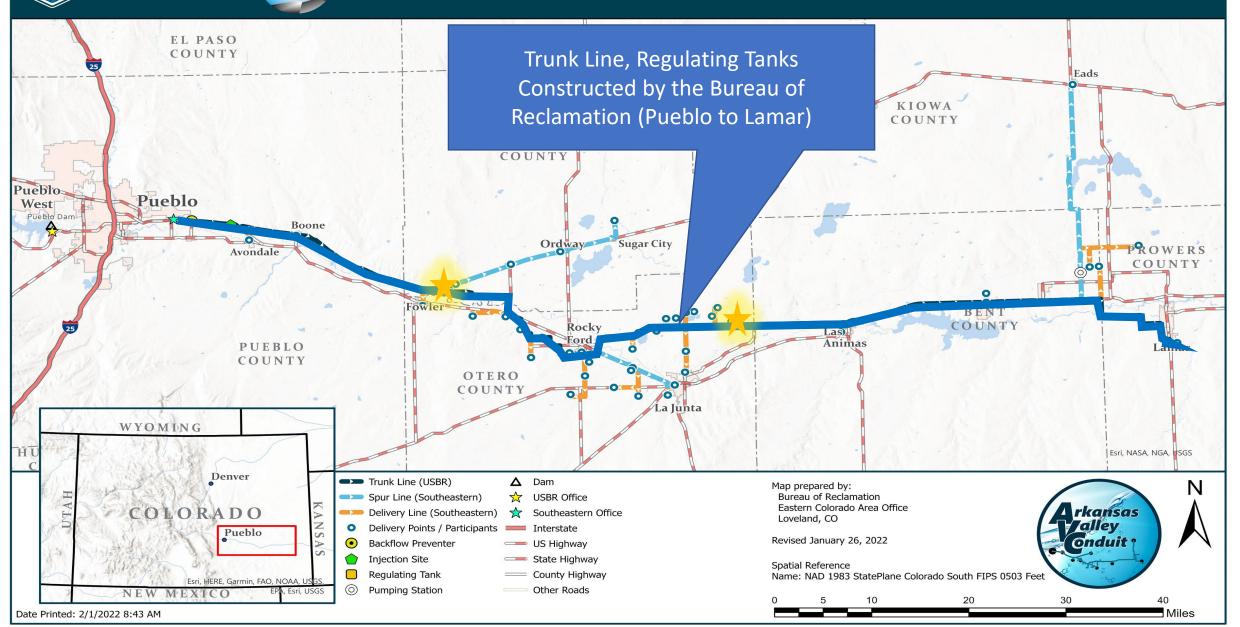


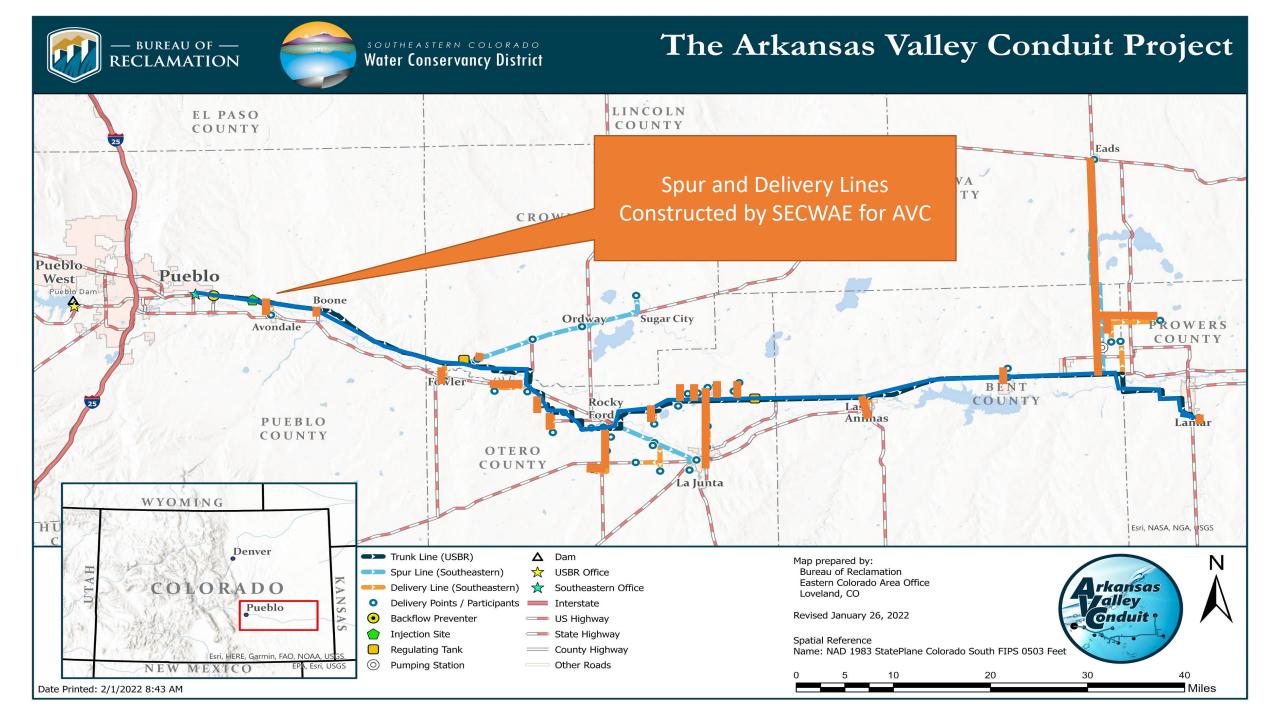
The Arkansas Valley Conduit Project

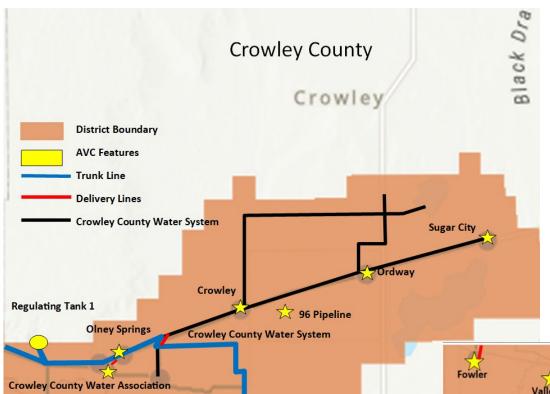


— BUREAU OF — RECLAMATION SOUTHEASTERN COLORADO Water Conservancy District

The Arkansas Valley Conduit Project





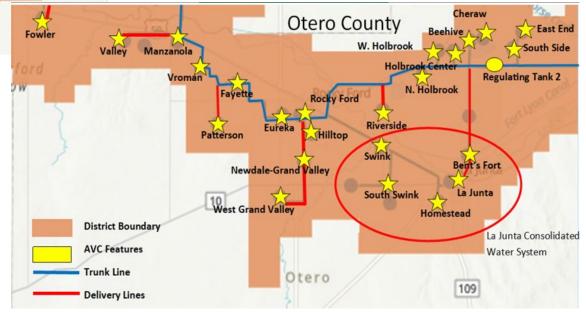


Consolidation Plans

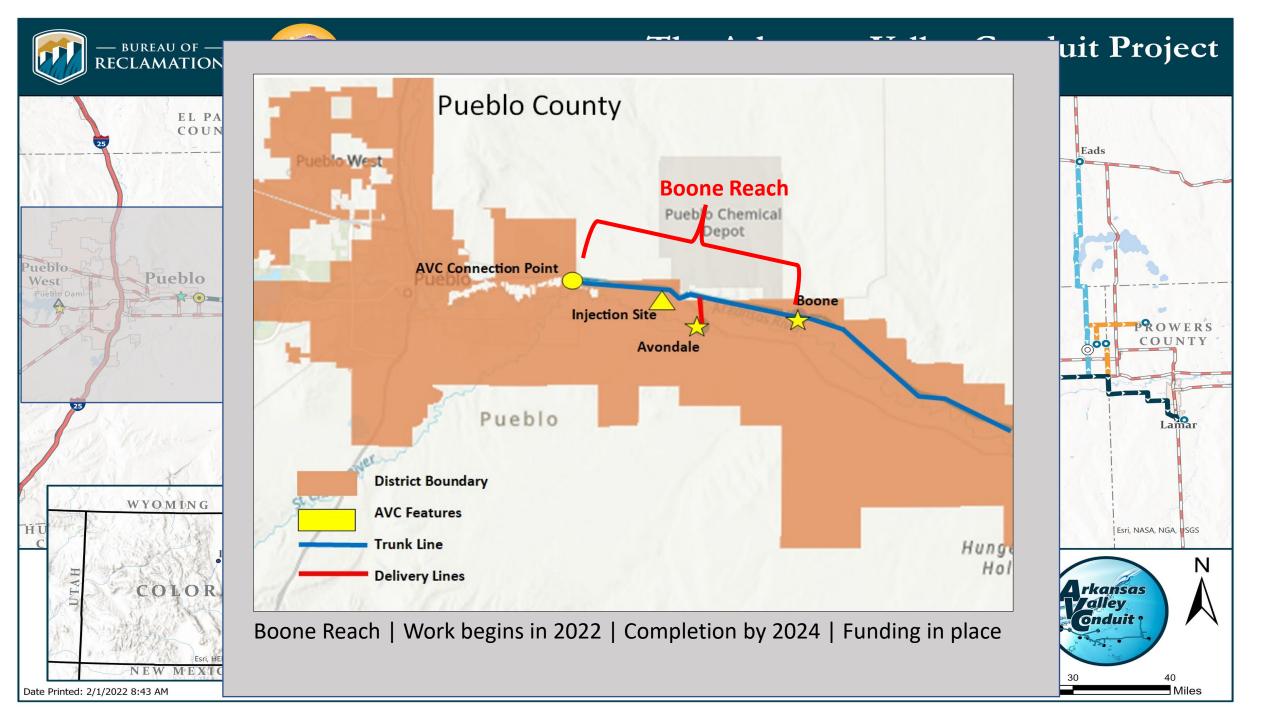
In order to reduce costs for spur and delivery lines, SECWCD is investigating consolidation in several areas of the AVC. Several meetings have been held, but more discussions are needed.

Will local consolidations change AVC allotments?

No. The initial allotment of water within AVC was determined by consulting with participants while the FEIS was being developed. Future changes in the way AVC is managed would be determined by an AVC authority or the SECWCD Board.

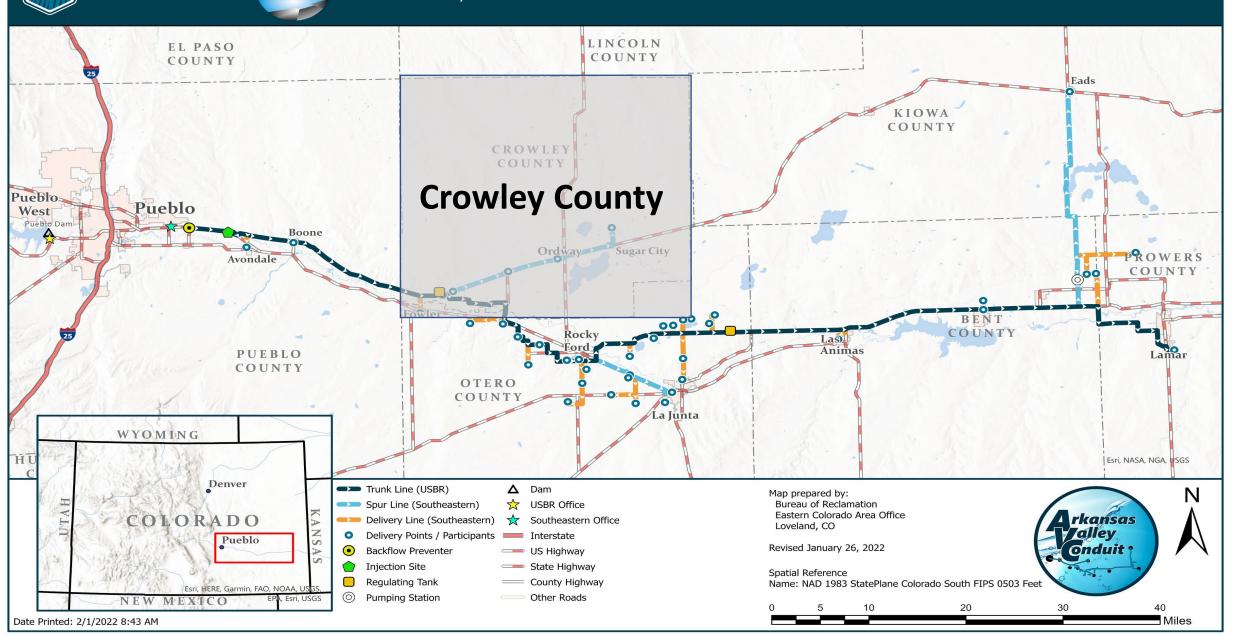


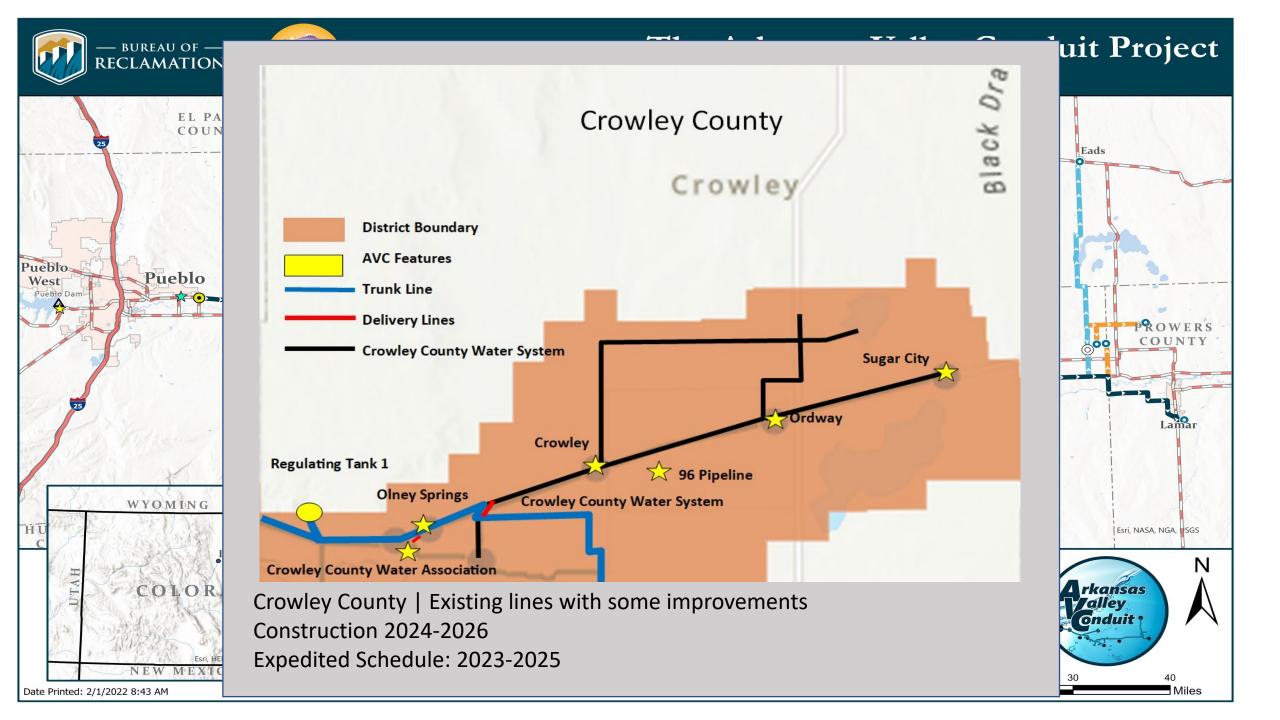
The Arkansas Valley Conduit Project — BUREAU OF — RECLAMATION SOUTHEASTERN COLORADO **Water Conservancy District** LINCOLN EL PASO COUNTY COUNTY KIOWA COUNTY CROWLEY COUNTY Pueblo Pueblo West **Pueblo County Sugar City** PROWERS COUNTY BENT COUNTY Las Animas PUEBLO Lamar COUNTY OTERO COUNTY WYOMING Esri, NASA, NGA, USGS Denver Trunk Line (USBR) **△** Dam Map prepared by: **USBR Office** Bureau of Reclamation Spur Line (Southeastern) Eastern Colorado Area Office Arkansas Valley COLORADO Delivery Line (Southeastern) Southeastern Office Loveland, CO Delivery Points / Participants Interstate Pueblo **Conduit** Revised January 26, 2022 **Backflow Preventer** US Highway Injection Site State Highway Spatial Reference Regulating Tank County Highway Name: NAD 1983 StatePlane Colorado South FIPS 0503 Feet Esri, HERE, Garmin, FAO, NOAA, U. Pumping Station Other Roads Miles Date Printed: 2/1/2022 8:43 AM



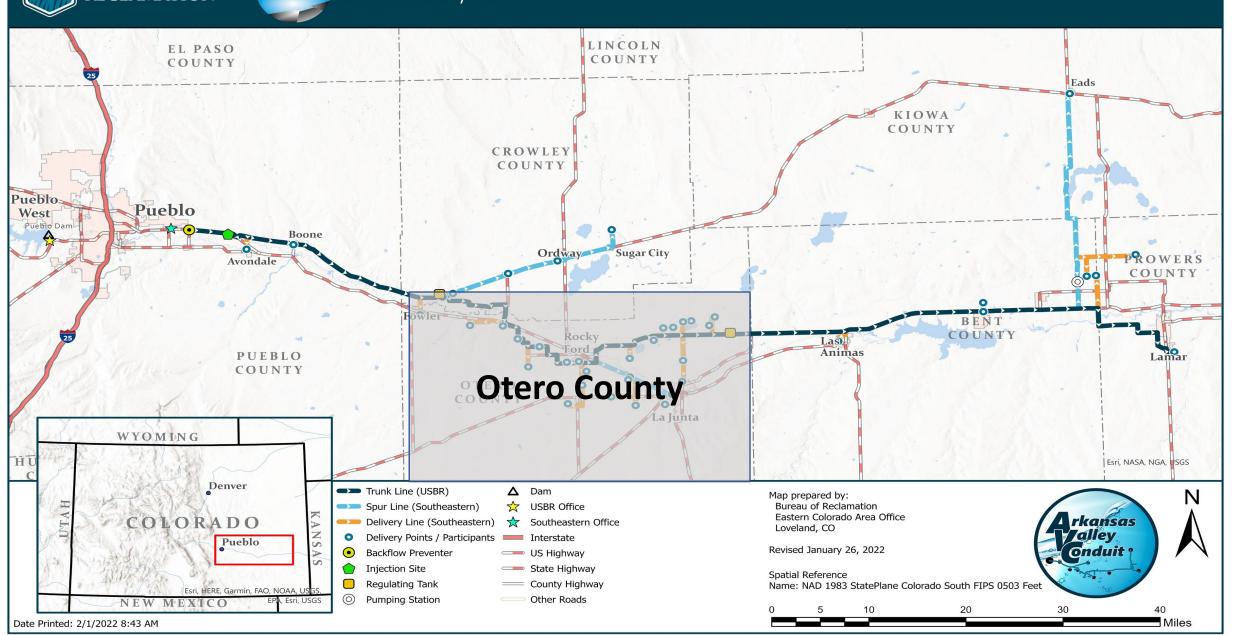
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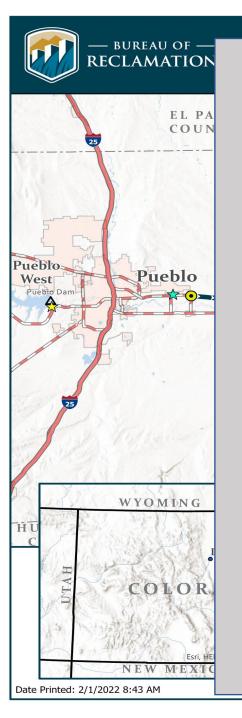
The Arkansas Valley Conduit Project

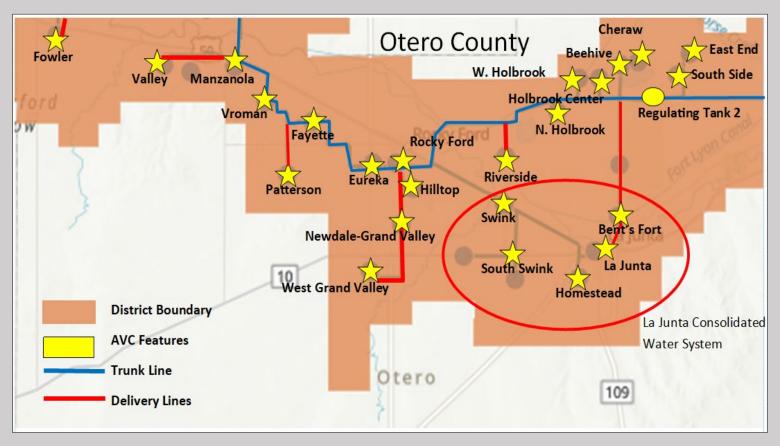




— BUREAU OF — RECLAMATION SOUTHEASTERN COLORADO **Water Conservancy District** EL PASO COUNTY



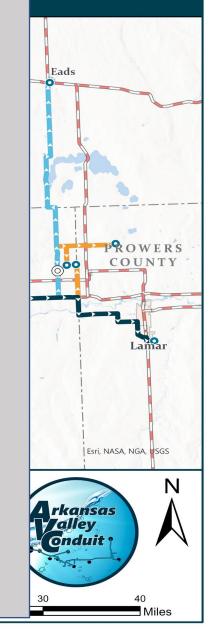




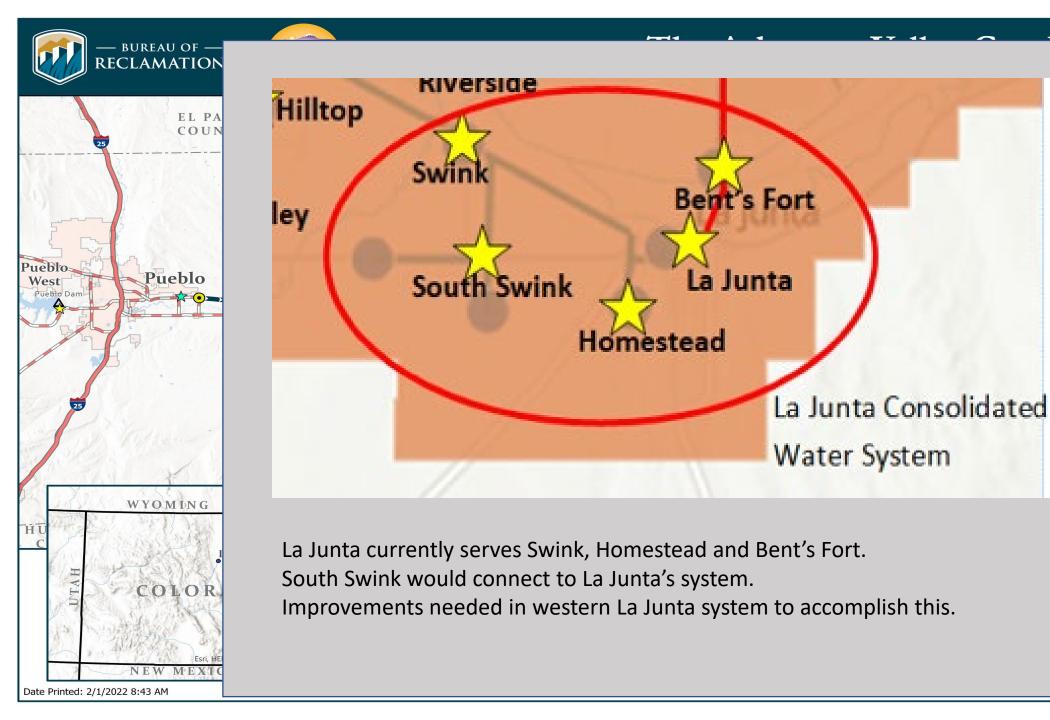
Otero County | 15 systems with radionuclides | La Junta consolidation

Construction: 2026-2031

Expedited Schedule: 2024-2027

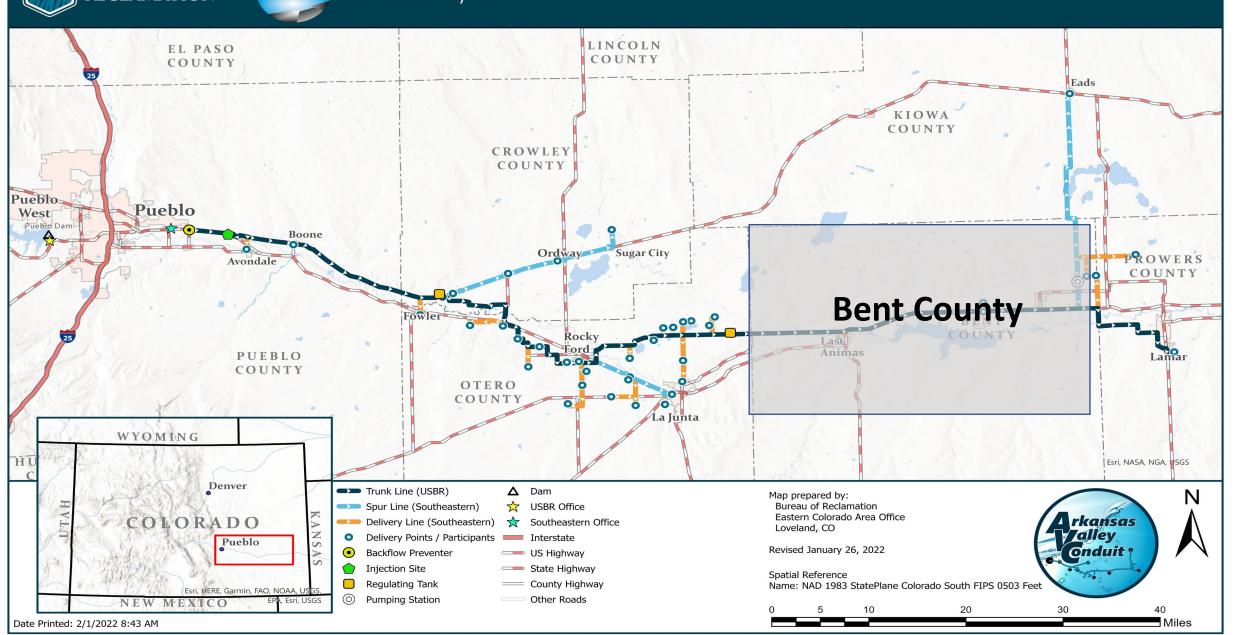


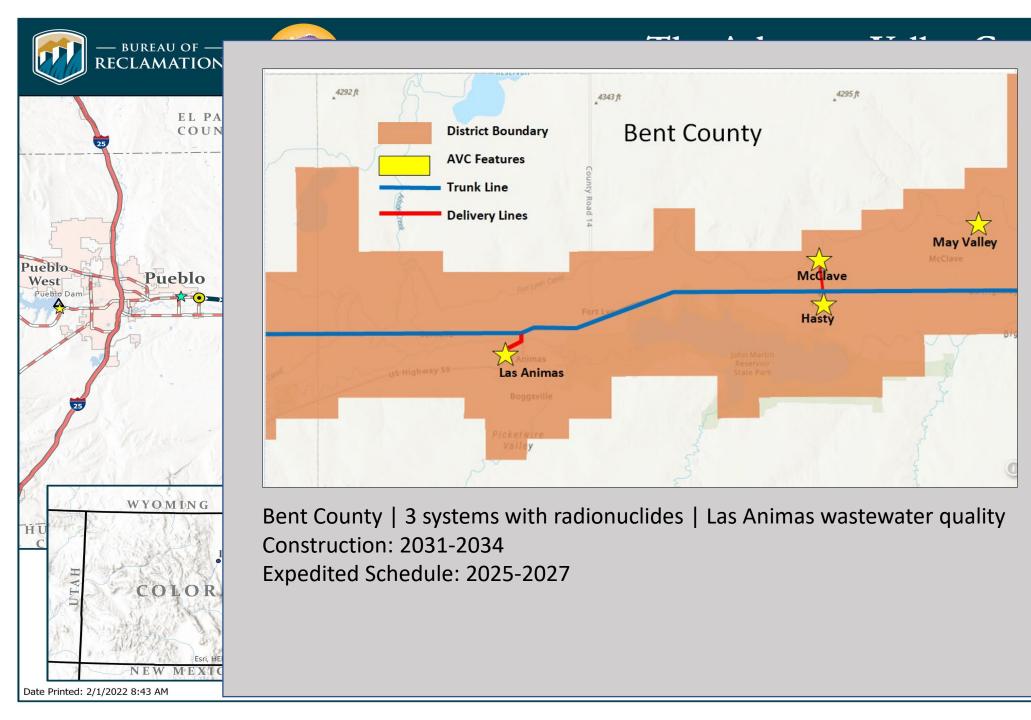
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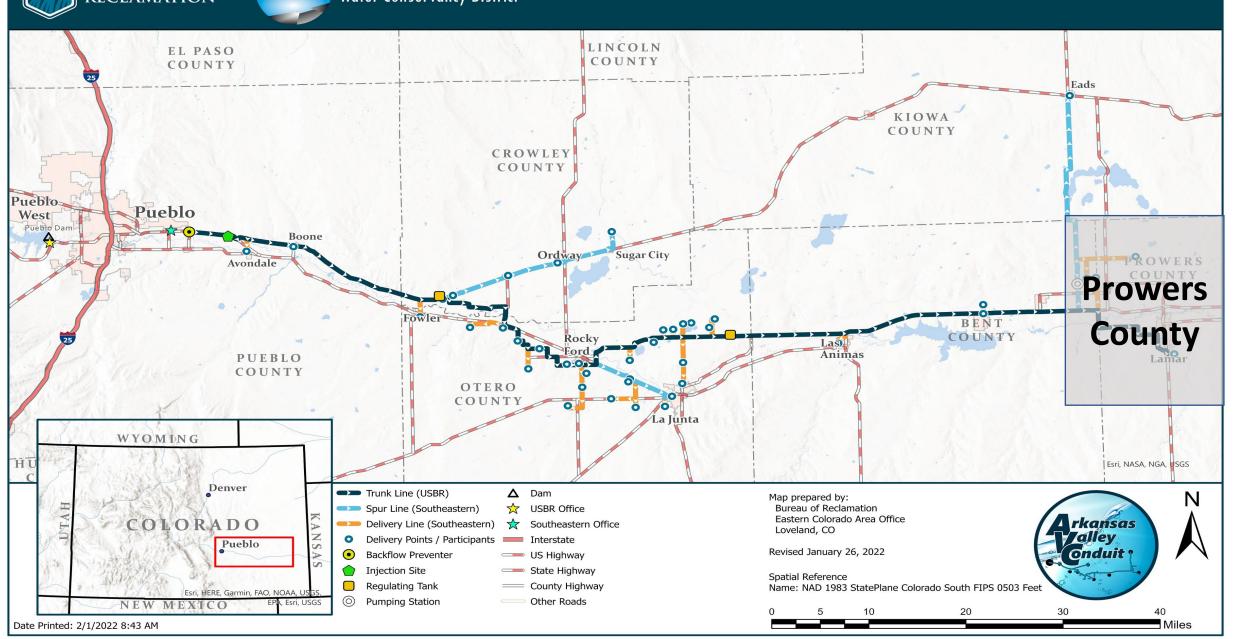
— BUREAU OF — RECLAMATION SOUTHEASTERN COLORADO Water Conservancy District EL PASO

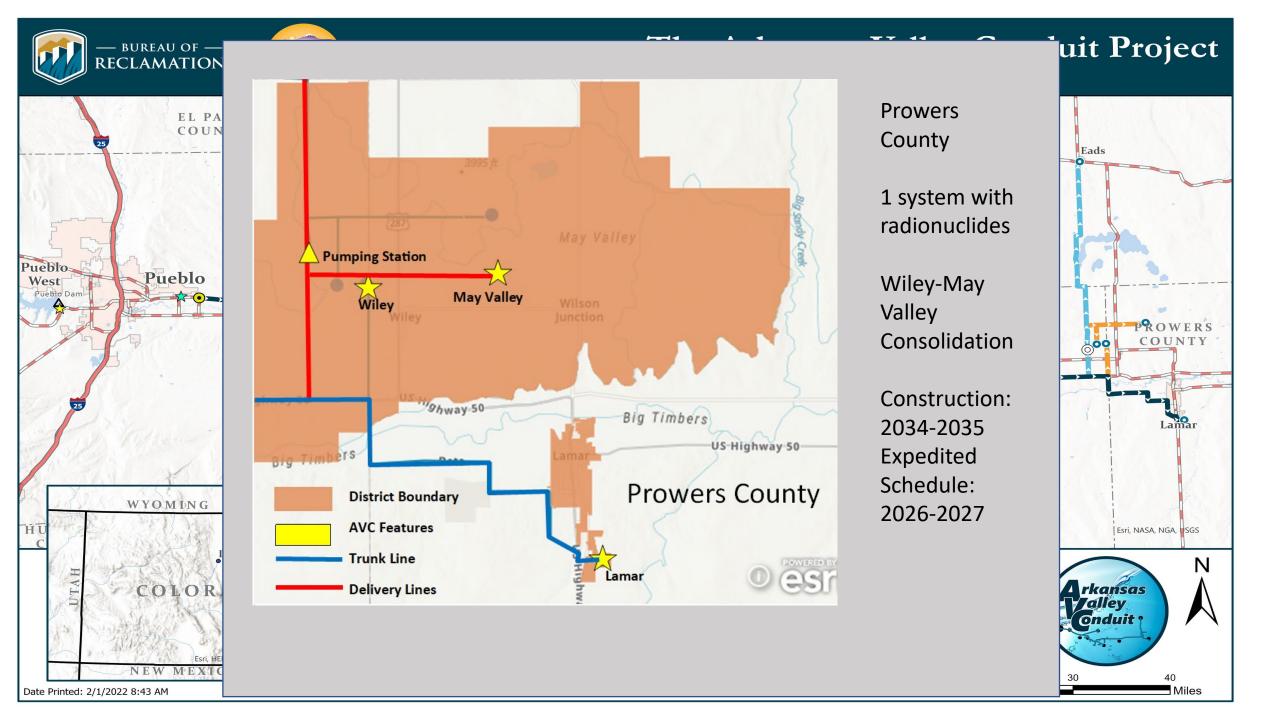




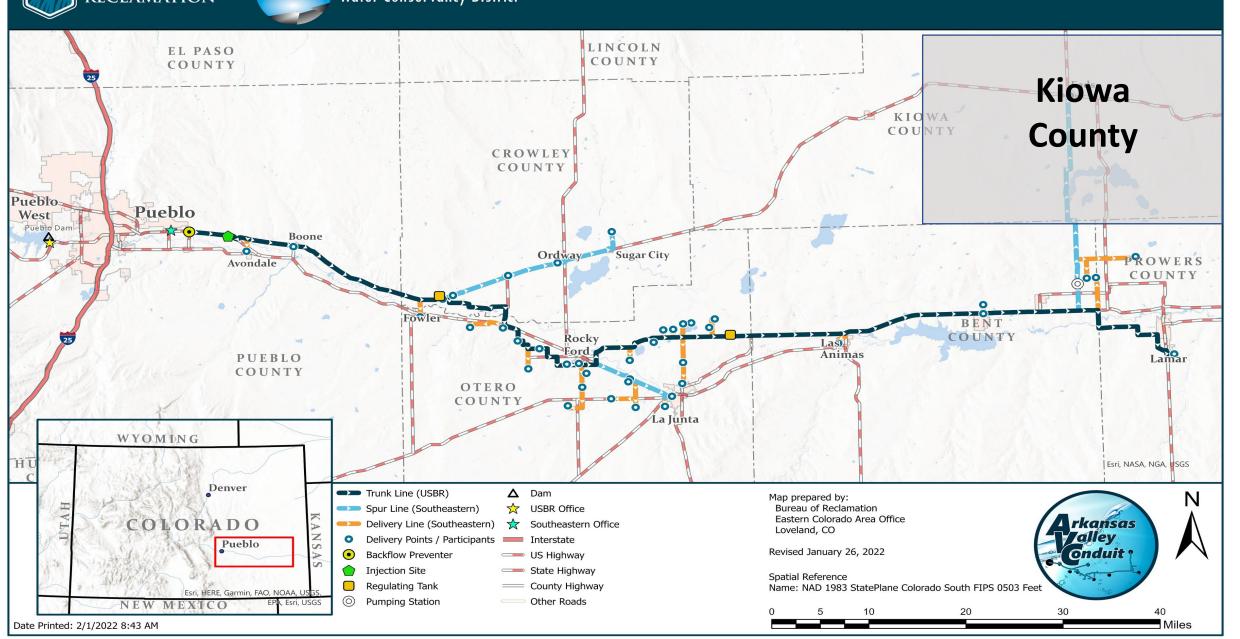
uit Project Eads Esri, NASA, NGA, USGS Ν Arkansas Valley Conduit ? Miles

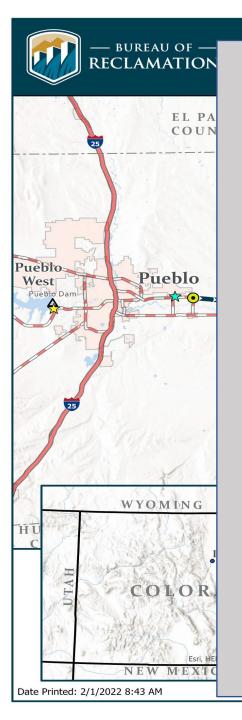


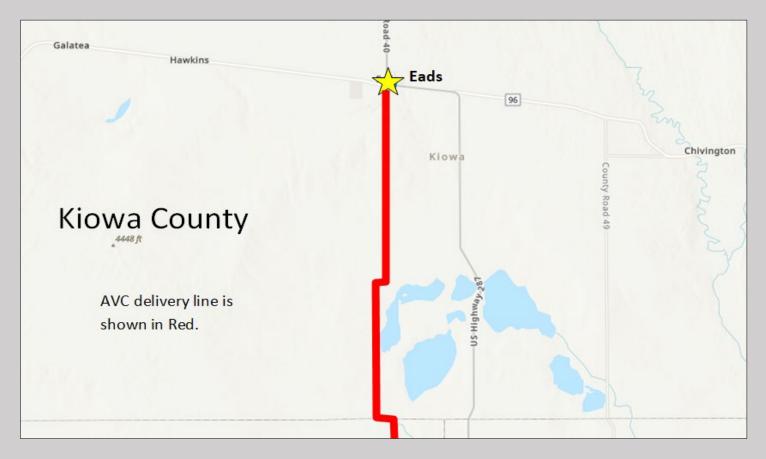




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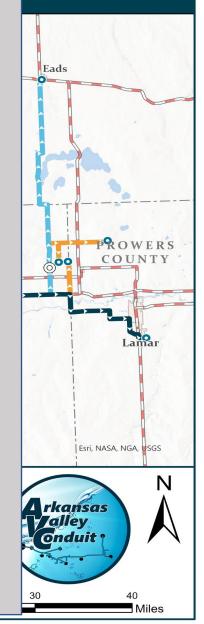




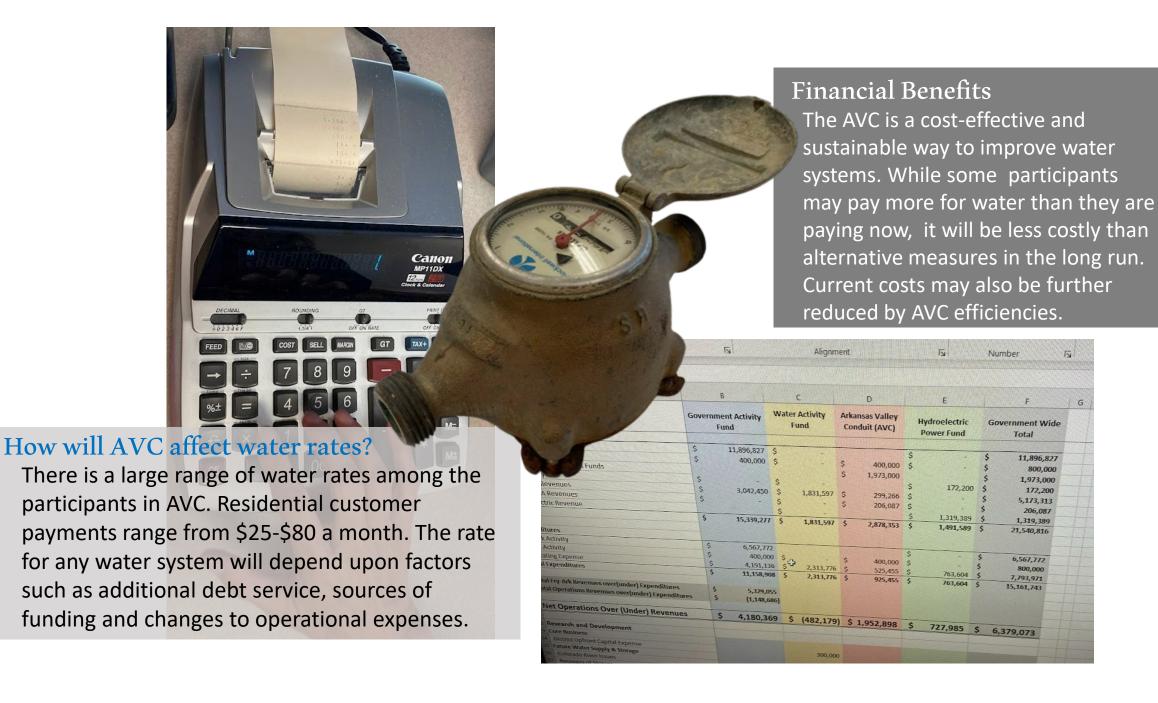


Kiowa County | Eads only AVC system | Construction: 2035

Expedited Schedule: 2028



uit Project



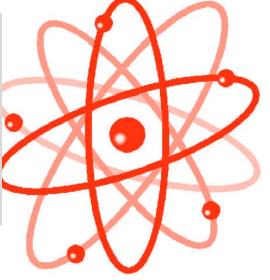


Water Quality Benefits

Poor water quality in the lower Arkansas River basin was recognized 100 years ago. Alluvial wells may be contaminated. Deeper wells may contain radionuclides. Many former water sources are unavailable because of stricter EPA standards.

How will AVC affect water quality?

AVC will provide a renewable source water that already meets water quality standards. In addition, there will be fewer by-products from the water treatment process to dispose of, as well as cleaner water for wastewater treatment systems.



18 of the 39 water systems in the AVC have been cited for elevated levels of radionuclides. All water systems are at risk of source-water contamination. Wastewater systems must comply with selenium discharge regulations.



How will SECWCD Coordinate with you?

We are in discussions with Bent, Crowley, Kiowa, Otero, Prowers and Pueblo County Commissioners, as well as the La Junta and Lamar City Councils to develop a governance agreement for AVC.



AVC Governance
AVC water systems:
2 home-rule cities
2 statutory cities
11 statutory towns
1 water district
9 water associations
14 water companies

12-3,500 taps per system





Construction Schedule The AVC would be completed by 2035 under a construction schedule developed in 2020. SECWCD is working with Reclamation on an expedited plan under Federal Infrastructure Funds that would complete construction by 2028.

When will AVC bring water to our system?

SECWCD is working to design all spurs and delivery lines in the next two years in order to be ready for the AVC trunk line when it reaches your community, based on an expedited schedule.

The map above shows dates for the original schedule and the current expedited plan.





The Work Ahead

The AVC will provide a cleaner source of water for the Lower Arkansas Valley, fulfilling a vision that began nearly 100 years ago. It has taken the dedicated work over many decades to reach this point and future generations will benefit.

Where can I get more information on AVC?

Please feel free to contact the Southeastern Colorado Water Conservancy District at 719-948-2400, or visit our website at

http//www.secwcd.org

