2021 Sustaining Colorado Watersheds Conference

# The Voluntary Flow Management Program: Uncommon Partners Coming Together For a Common Good

#### What is the VFMP?

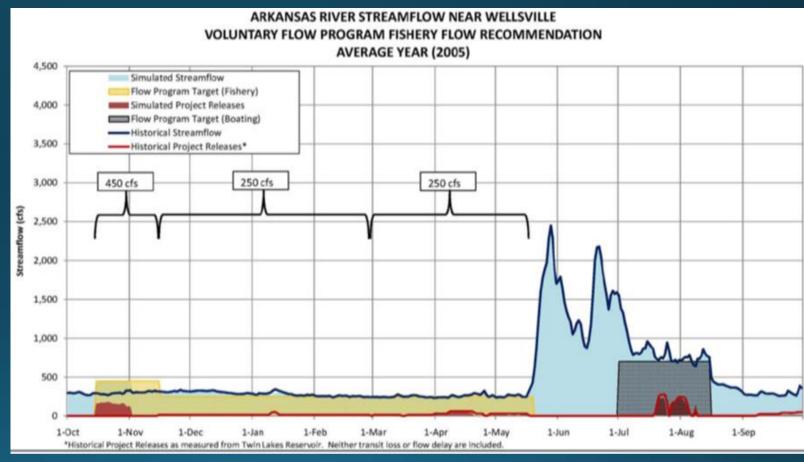
 A cooperative effort for managing and augmenting flows on the Arkansas River expressly for the enhancement of nonconsumptive, in-stream water uses, primarily recreation – rafting and fishing

#### SUMMER COMPONENT

- Support Rafting Outfitters
- 10,000 AF H2O
- July 1 August 15
- 700cfs at Wellsville gauge (near Salida)

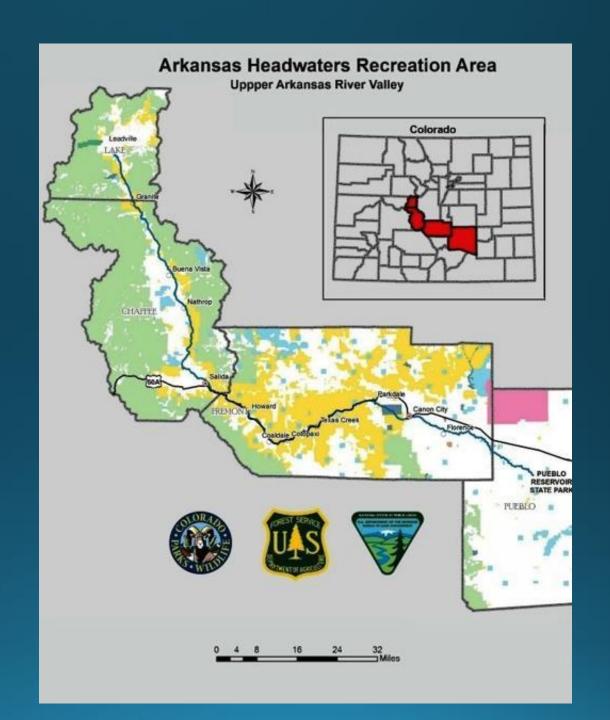
#### REMAINDER OF THE YEAR

- Support the Fishery/Fishing Outfitters
- Aug 16 Oct 15
  - 250 cfs
- Oct 16 Nov 15 Spawning Flow Rate
  - 300 700cfs varies year to year
- Nov 16 March 31 Incubation Flow Rate
  - 250 400 cfs
- April 1 May 15 Trout Fry Emergence
  - 250 400 cfs
- May 16 July 1 Spring Runoff
  - Natural Hydrograph Dominates



# Jurisdiction of the VFMP

- From Twin Lakes
   Reservoir to Lake
   Pueblo State Park
  - ~152 miles
  - 102 of which are classified "Gold Medal" for fishing



## VFMP TIMELINE – Important Dates in Program History

- 1980s Commercial and private boating interests, along with fishermen, asked the Bureau of Land Management and Colorado State
  Parks to help develop better land and water management along the Arkansas River
- 1989 Creation of the Arkansas Headwaters Recreation Area
- 1990 Colorado State Parks begins regulating rafting outfitters operating on the Arkansas River
- 1990 First year of releases for the VFMP BOR released 23,000 AF H2O
  - Rafting outfitters = Happy, Fly Fishing Outfitters and Trout Unlimited = NOT Happy
- 1991 Trout Unlimited Lawsuit
- 1991 Arkansas River Flow Management Program Agreement initiated
  - The following year the program was modified to include cold-water fishery protection at the urging of Trout Unlimited and Colorado Division of Wildlife
- 2002 The SEVERE Drought that changed everything no water available for the VFMP
- 2004 Chaffee County MOU
- 2005 Arkansas River Flow Management Agreement (aka VFMP) formalized by all participants
- 2011 Colorado State Parks and Division of Wildlife are merged to form Colorado Parks and Wildlife
- 2012 Severe Drought Year no water available for the VFMP
- 2014 102 miles of the Arkansas River designated as Gold Medal by the Colorado Wildlife Commission
- 2018 Drought Year Rafting Season a 'Success' Because of the VFMP
- 2020 Severe Drought Year. Due to VFMP summer recreation on Upper Arkansas a resounding success in spite of extreme drought and COVID-19 pandemic
  - Over 182,000 boating clients on Upper Arkansas with gross receipts of over \$14.8 million. Over 1 million visitors to AHRA up 22% from 2019

#### KEYS TO PROGRAM SUCCESS – CO Water Law and Infrastructure

#### **KEYTO SUCCESS 1: COLORADO WATER LAW**

- Coffin v Left Hand (1882)
  - Doctrine of Prior Appropriation established
  - Trans-Basin Diversions allowed
- 1961 Colorado Supreme Court
  - "We find nothing in the state constitution which even intimates that waters should be retained for use in the watershed where originating."

#### KEY TO SUCCESS 2: TRANS BASIN INFRASTRUCTURE

- 10 Trans-Basin Diversions into Arkansas Basin
- Fryingpan-Arkansas Project
  - Authorized by Congress & President Kennedy in 1962
  - Construction Completed in 1981
  - Designed to import up to 69,200 AF water annually
  - Average imports ~53,000 AF





# Fryingpan-Arkansas Project Details

#### Fryingpan-Arkansas Project Elements

Capacity
102,369 AF
129,432 AF
11,530 AF
140,339 AF
338,374 AF

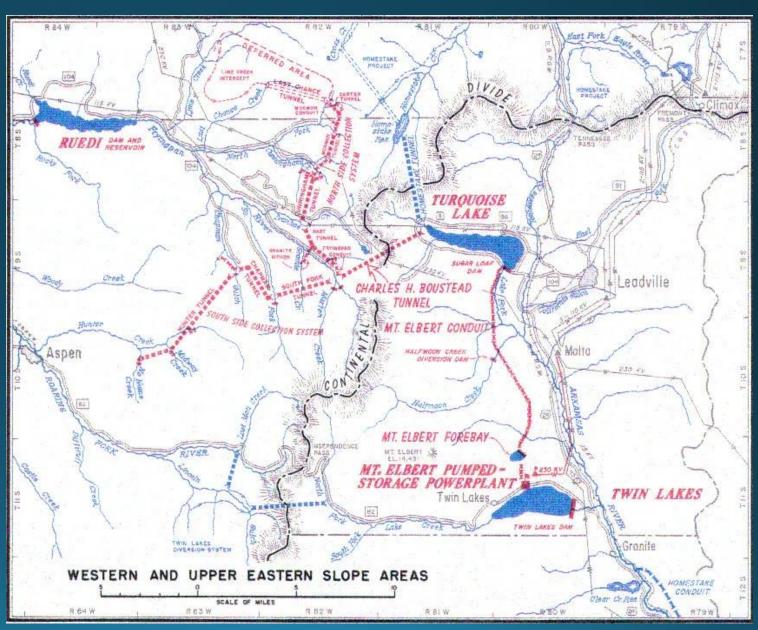
Conduits & TunnelsLengthSouthside Collection14.2 milesNorthside Collection11.3 milesBoustead Tunnel5.4 milesMt. Elbert Conduit10.5 milesFountain Valley Conduit45.5 miles

Other Features

Mt Elbert power plant 200 megawatts

Arkansas Valley Conduit 130 miles

(beginning construction in 2022)



# KEYS TO PROGRAM SUCCESS – COOPERATION, COMMUNICATION, & COLLABORATION

- OBJECTIONS
  - Objections came from both Consumptive and non-Consumptive Users alike
- COOPERATION, COMMUNICATION, COLLABORATION AND THE VOLUNTARY FLOW MANAGEMENT PROGRAM
  - Probably the Most critical component to the Program's success
  - Cooperative Management Agreement
    - Created the AHRA in 1989
    - Colorado State Parks signed the CMA in conjunction with USFS and BLM
  - Arkansas River Flow Management Program Agreement
    - Initiated in 1991 → Formalized in 2005
  - AHRA Citizens Task Force
  - Seasonal Meetings
  - Coordinated Movement of Water on the Upper Arkansas River
    - Pueblo Board of Water Works, Colorado Springs Utilities, & Aurora Water



 Without the Cooperation and Collaboration of Dozens of individuals representing Consumptive and Non-consumptive uses alike, the Voluntary Flow Management Program would NOT be possible

# Voluntary Flow Management Program Partners

















### The VFMP and Recreation on the Upper Ark Summer 2021

- WATER IN THE ARKANSAS RIVER
  - BoR Imported ~32,000 AF H2O for Fryingpan-Arkansas Project
    - Average is closer to 53,000 AF
  - VFMP able to get full 10,000 AF allocation
  - PBWW Moved 6,000 AF during Summer Component of VFMP Thank You
  - Monsoon Rains east of Continental Divide
  - VFMP utilized 8,800 AF of allocation

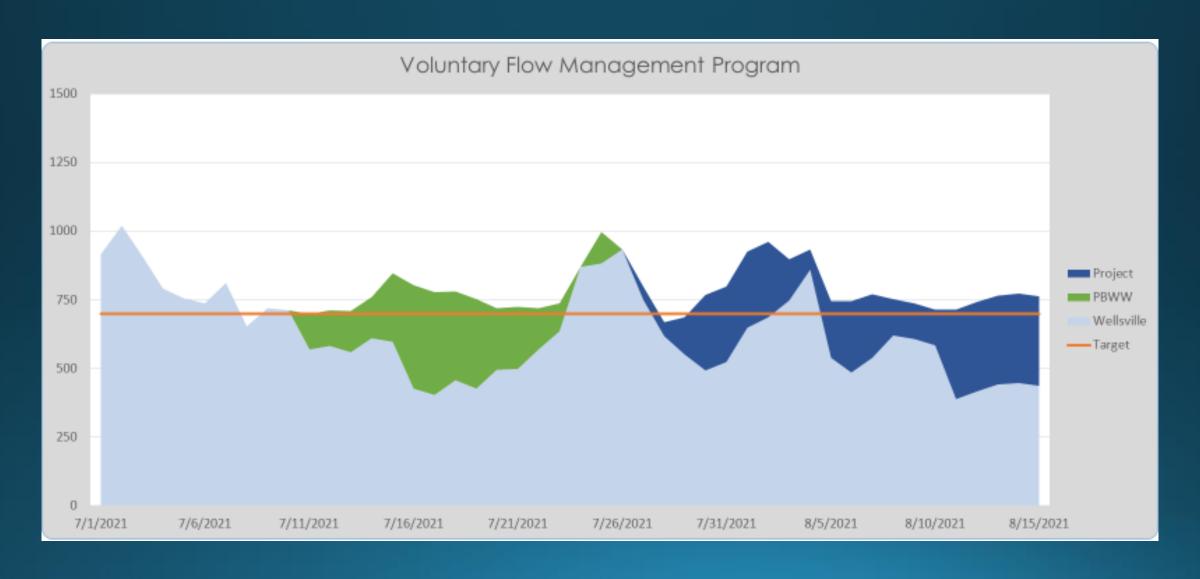


- Banner Season for Rafting Outfitters
  - Possibly one of their busiest ever!
  - 182,005 guests rafted on the Arkansas River last summer
- More people recreating in the AHRA than ever before
  - On average, AHRA campgrounds were at 84% of capacity this summer

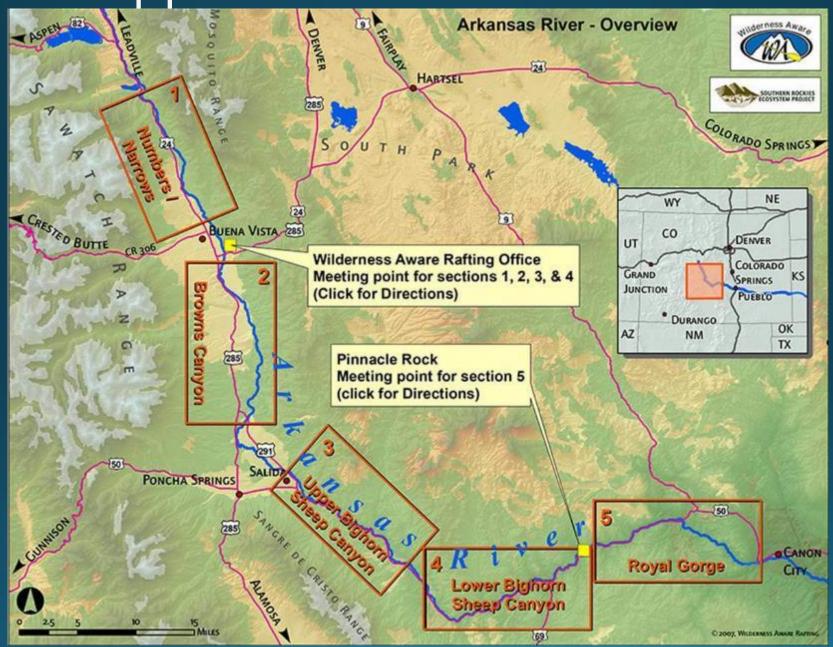




# VFMP FLOWS – SUMMER 2021



Sharing the Upper Arkansas River



# THANK YOU!!







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