## 2016 Instream Flow Proposals

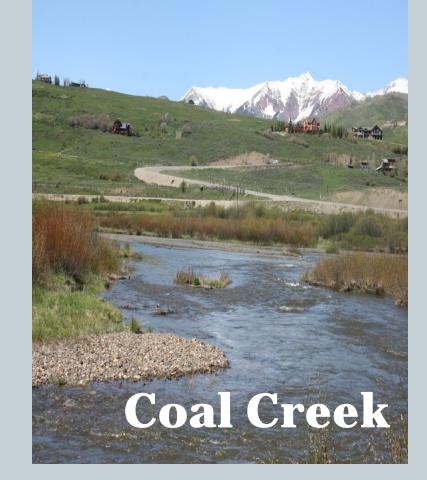
## AMERICAN RIVERS & HIGH COUNTRY CONSERVATION ADVOCATES

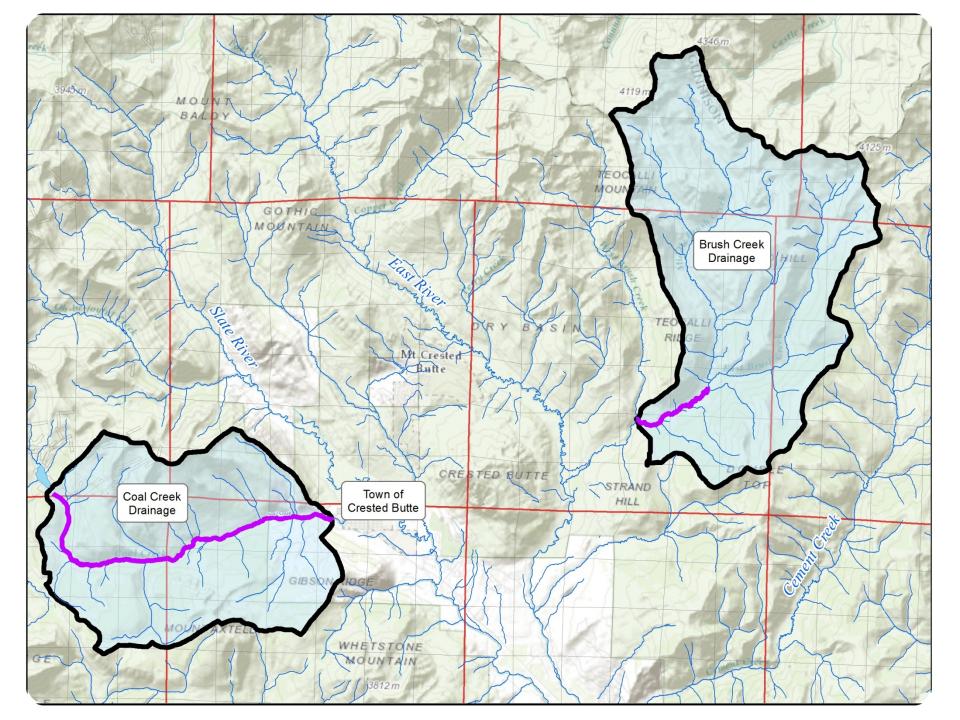
## **Streams in Water Division 4**

# Brush Creek Coal Creek

#### **2016 Recommendation Emphasis**

New, junior ISF enlargements on creeks with existing, decreed ISF rights to more fully "preserve the natural environment to a reasonable degree" by current R2Cross standards and criteria





#### Natural Environment

Cutthroat fishery
Healthy riparian area featuring willows

## **Brush Creek**



#### **Existing ISF** Water Right

- -Case Number 4-83CW236
- 8 cfs summer
- 5 cfs winter
- Appropriated 6/3/1982

## **Brush Creek**



#### **Stakeholders**

**US Forest Service Colorado Parks & Wildlife Gunnison County** Water rights owners **The Upper Gunnison River Water Conservancy District Local guiding businesses** 

#### Natural Environment

- Healthy brook and brown trout fishery

- Riparian community with willows and alders



#### **Existing ISF** Water Right

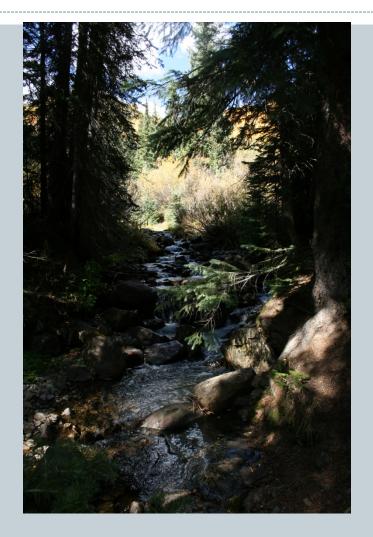
-Case Number
4-80CW102
2 cfs year round
- Appropriated
3/17/1980



## **Coal Creek**

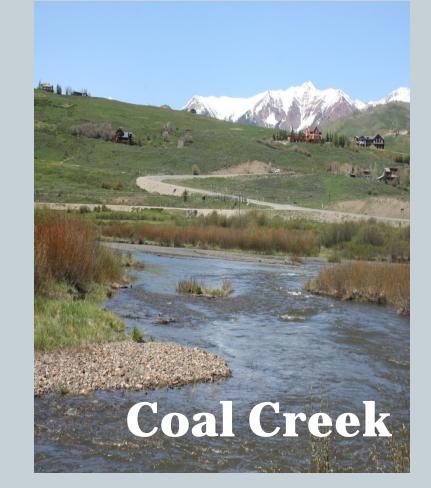
#### Stakeholders

- **o** US Forest Service
- Bureau of Land Management
- Gunnison County
- Town of Crested Butte
- Water rights owners in the Coal Creek watershed
- Upper Gunnison River Water Conservancy District



#### **2016 Recommendation Emphasis**

New, junior ISF enlargements on creeks with existing, decreed ISF rights to more fully "preserve the natural environment to a reasonable degree" by current R2Cross standards and criteria



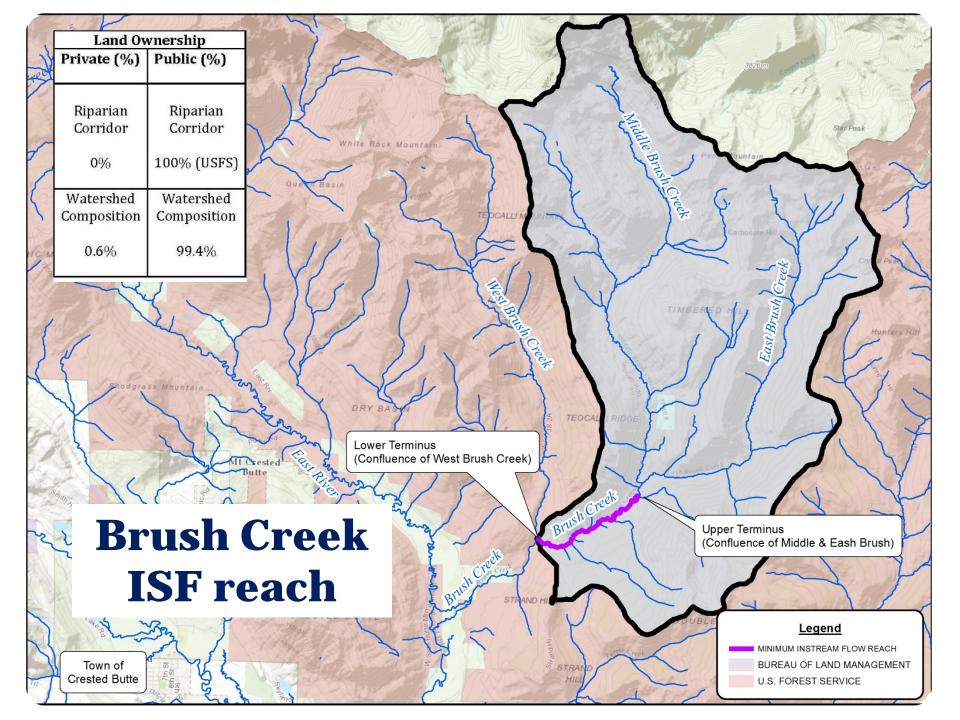
#### **Current R2Cross Criteria**

#### **Hydraulic Criteria**

- 1 ft/sec Average Velocity
- 50% Wetted Perimeter
- Average Depth 1% of Top Width

#### **Flow Recommendations**

- Summer flow meets all 3 hydraulic criteria
- Winter flow meets 2 of 3 hydraulic criteria



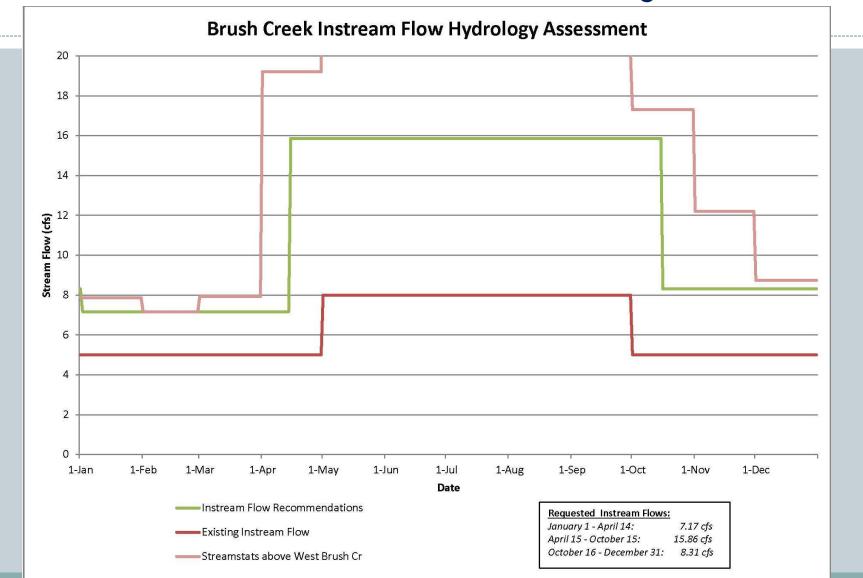
## **Brush Creek**

#### Water Availability

- Tributaries are headwaters streams
- Middle Brush Creek originates in the Maroon Bells-Snowmass Wilderness Area
- East Brush originates on USFS lands
- No gage data available data

#### East Brush Creek

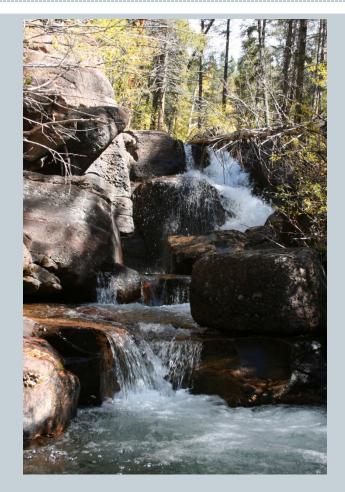
## **Water Availability**



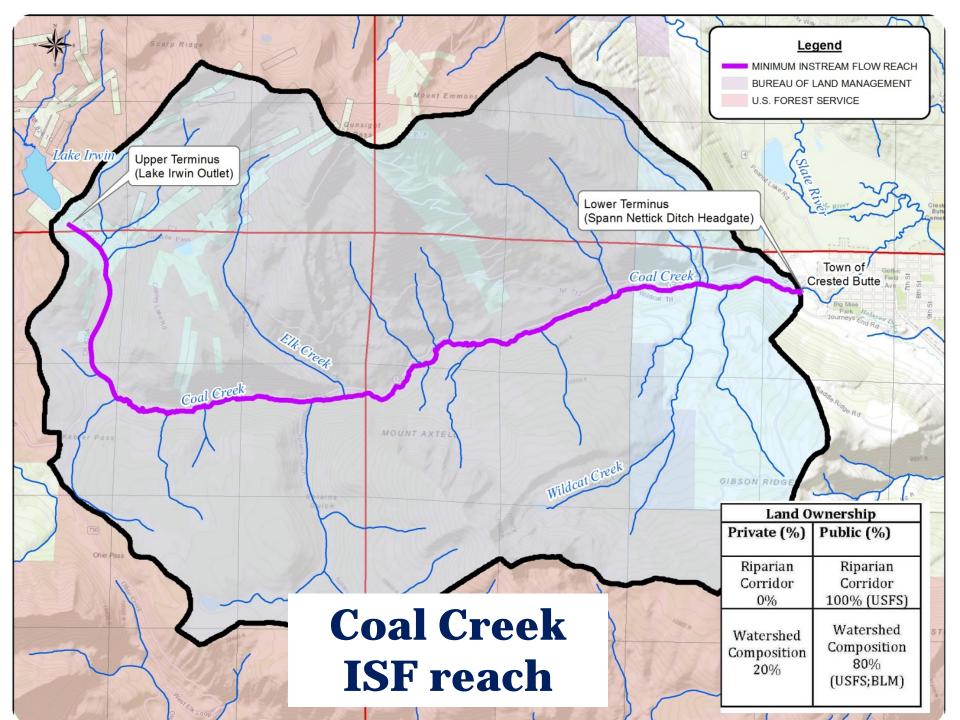
## **Brush Creek**

### **Proposed ISF rates**

Apr. 15th- Oct. 15<sup>th</sup>
 × 15.86 cfs
 Oct. 16th- Jan. 1<sup>st</sup>
 × 8.31 cfs
 Jan. 1st- Apr. 14th
 × 7.17 cfs



**East Brush Creek** 

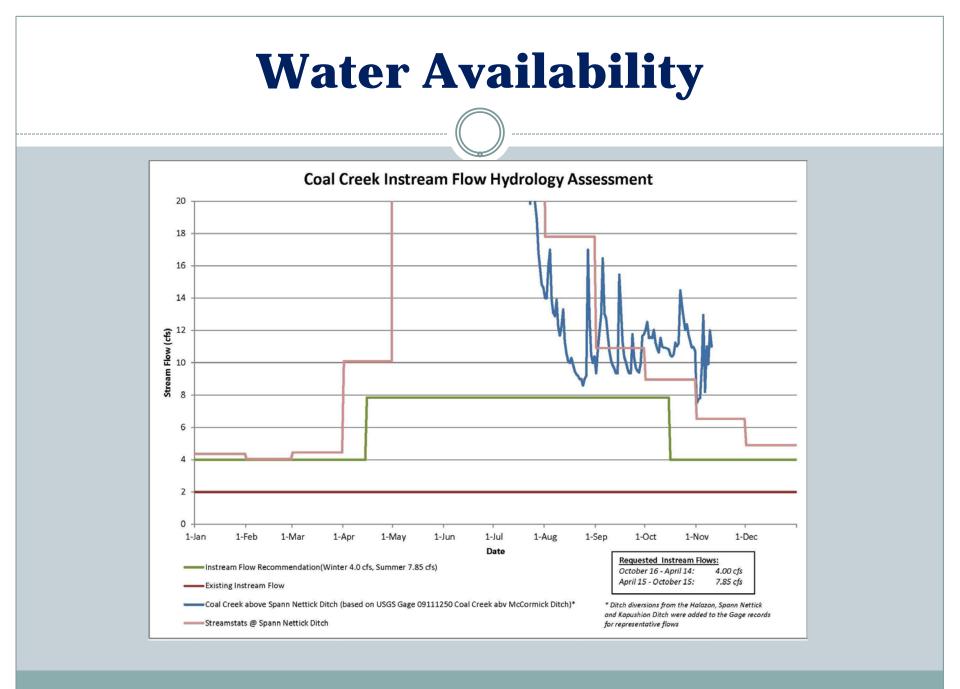


## **Water Availability**



- Headwaters stream
- Originates on USFS lands

 Some gage data available data but short period of record



#### **Proposed ISF rates**

Apr. 15- Oct. 15 7.85 cfs

Oct. 16<sup>-</sup> Apr. 14 4 cfs



#### Self-serving photo of big rainbow I caught ©

