

ISF Program Staff

Jeff Baessler Deputy Section Chief Hydrologist

Appropriations, Physical Protection, Section Finances & Planning

Brandy Logan Hydrologist

Appropriations & Physical Protection Analyses

Brian Epstein Hydrologist \ Hydrographer

Physical Protection & Monitoring

Linda Bassi Section Chief

Policy, Program & Staff Management

Kaylea White
Senior Water Resource Specialist

Acquisitions and Legal Protection

Rob Viehl Water Resource Specialist

Appropriations & Legal Protection Analyses

Don West Engineer

Engineering Analysis, Acquisition Support

Kim Ricotta & Sam May Legal Protection Support

Elkhead Creek



Environmental Movement

Increasing public concern about the impact that human activity could have on the environment

Toxic Chemicals





1st Earth Day



1970 National Environmental Policy Act

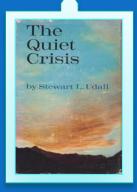
1972 Clean Water Act,
Costal Zone Mgt. Act
Marine Mammal Protection Act

1973 Endangered Species Act

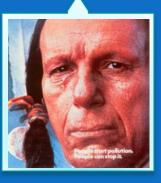
1974 Safe Drinking Water Act

1960's

1970's



1964
Wilderness
Preservation Act
1968
Wild and Scenic
Rivers Act



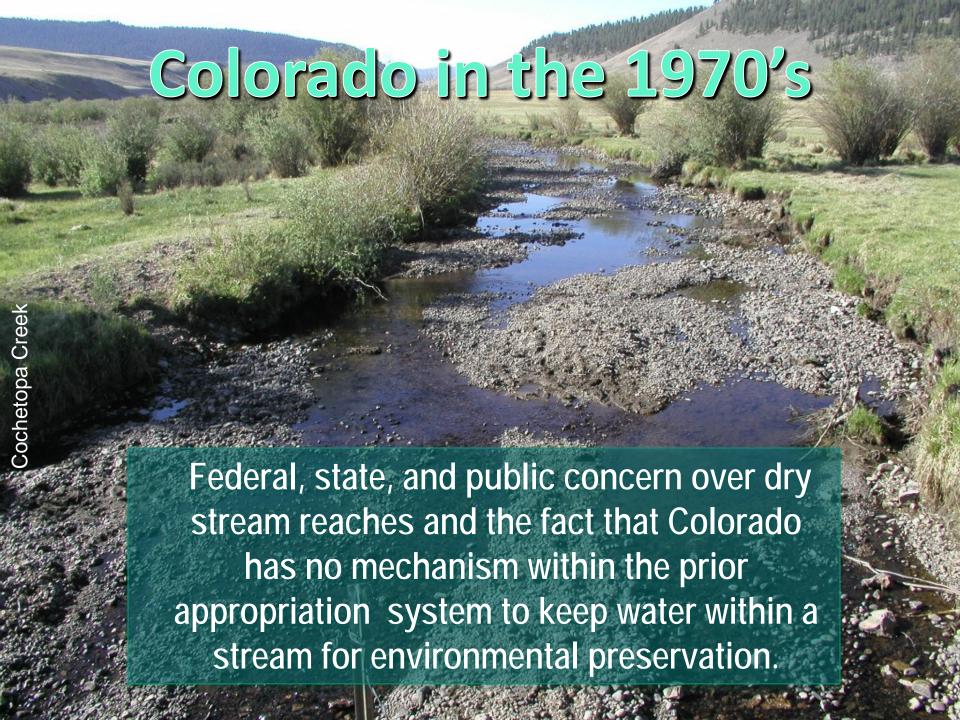
Keep America Beautiful Campaign





Creation of New Federal Agencies

Abuse of Nation's Natural Resources



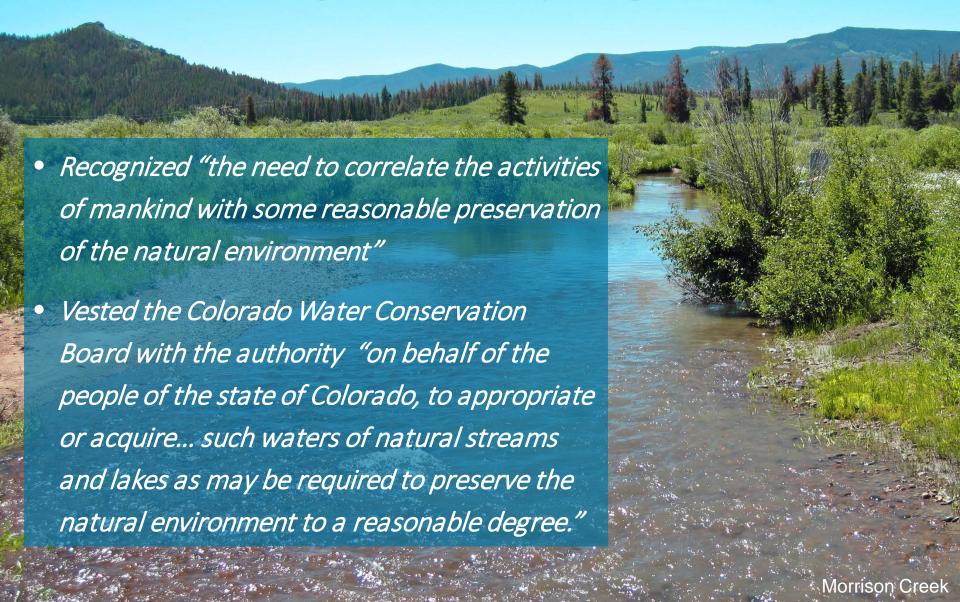
Colorado's legislature Weighs In



Maintain flows in streams to ensure reasonable preservation of the natural environment and achieve a balance with other beneficial uses of water in the state.

Provide regulatory certainty for water users through continued reliance on the doctrine of prior appropriation.

In 1973, the Colorado Legislature established the Instream Flow Program with the passage of Senate Bill 97:

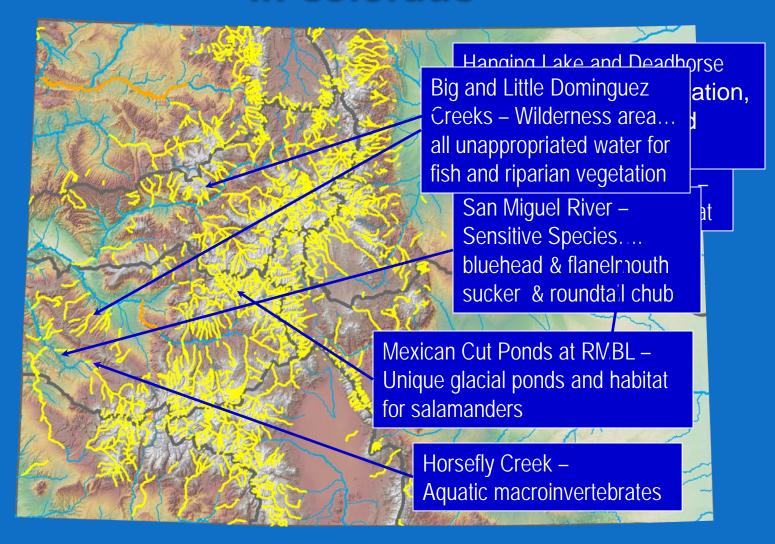


What did the ISF legislation establish?

- ISF and NLL rights are "in-channel" or "in-lake" appropriations of water and are recognized beneficial uses of water.
- Made exclusively by the Colorado Water Conservation Board
- To preserve the natural environment to a reasonable degree
- For "minimum flows" between specific points on a stream, or "levels" on natural lakes
- Administered within the State's water right priority system

River

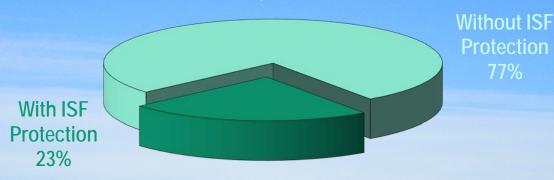
Distribution of Existing ISF Water Rights in Colorado



Yellow lines represent streams with decreed ISF rights

ISF Program Statistics

39,479 miles of perennial streams



Appropriated

Instream flow water rights on

- over 1,600 stream segments,
- covering <u>9,352</u> miles of stream,
 - and 480 natural lakes

Acquired

Over <u>26</u> water right donations or long-term contracts for water totaling

420 cfs and 9,340 AF

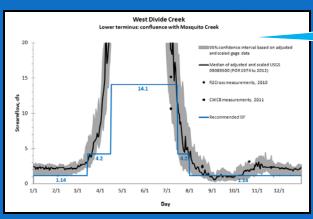
New Appropriation Recommendations (ISF Rule 5 Procedure)

Any *person* or *entity* may recommend streams or lakes to be considered for appropriation to *preserve* the natural environment

Kelso Creek

Statutory Requirements







A natural environment exists

 Typically identified by the presence of a fishery, but other indicators can be used
 Note: Quantification of the amount of water needed is provided by the recommending entity.

Natural environment will be preserved by the water available for appropriation

- Determined by water right and hydrologic investigations
- Daily Median hydrology when available general CWCB policy to show water available 50% of time

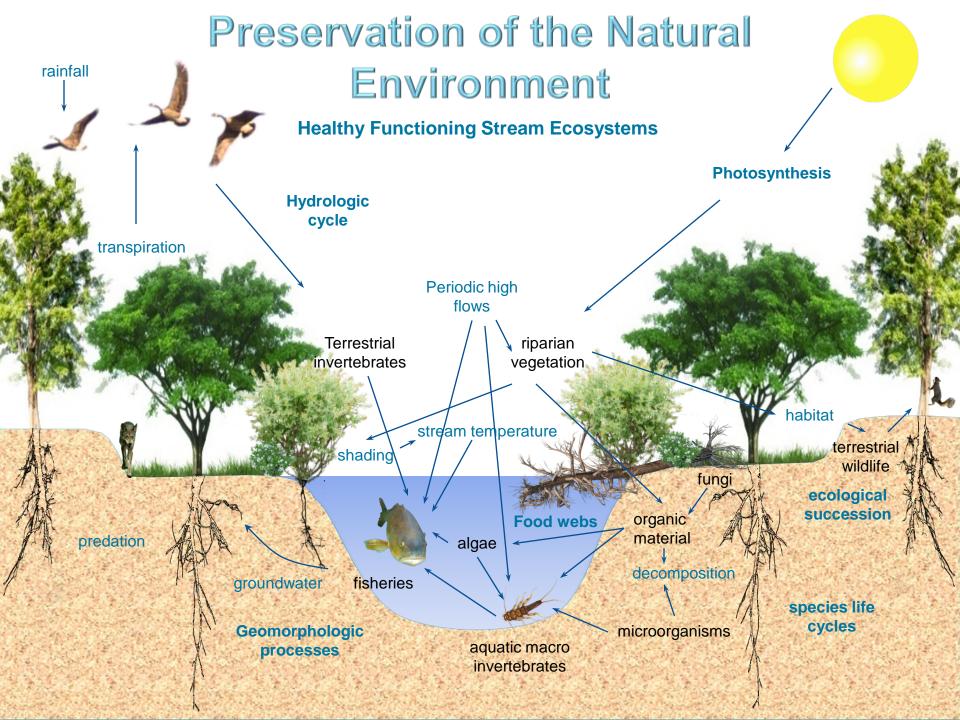
No material injury to other rights

- New appropriations are junior water rights and have no effect on existing senior appropriations
- 37-92-102(3) b. Recognition of existing undecreed uses and exchanges

Natural Environment

There is a natural environment that can be preserved to a reasonable degree







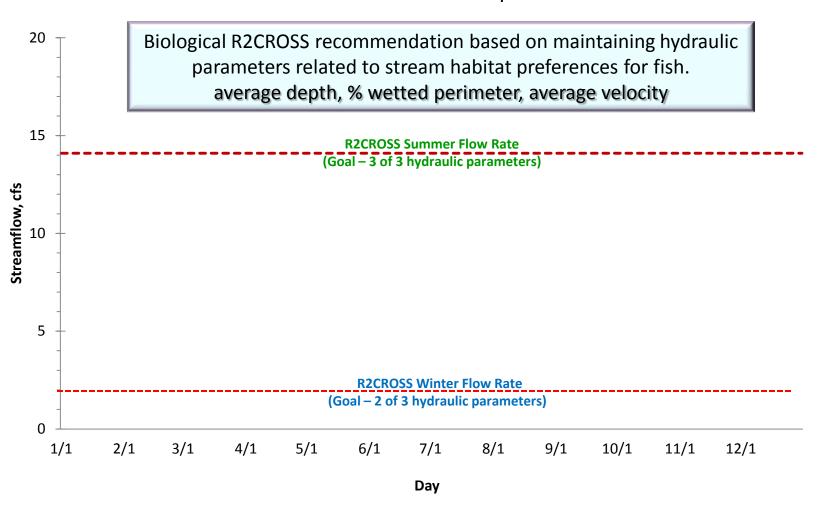
Hydrologic analyses

Driven by best available data and analysis methodology

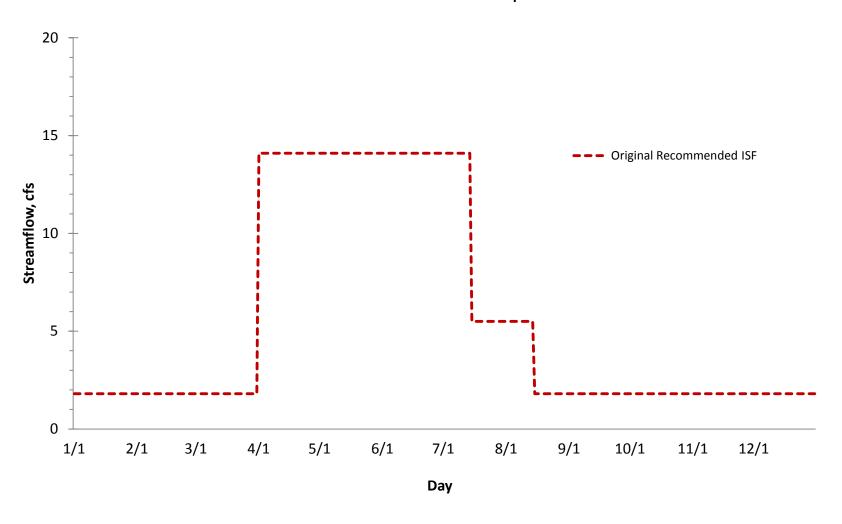
- ✓ Gage Records + 20 years, short term gages, temporary gages, spot flow measurements, diversion records.
- ✓ Statistical analysis of data to provide median daily flow hydrograph when possible.
- ✓ StreamStats analysis to provide mean monthly hydrograph when data is limited.
- ✓ Detailed CDSS modeling on larger streams.
- ✓ Anecdotal information from water commissioners, land owners, ditch or reservoir operators, resource managers.

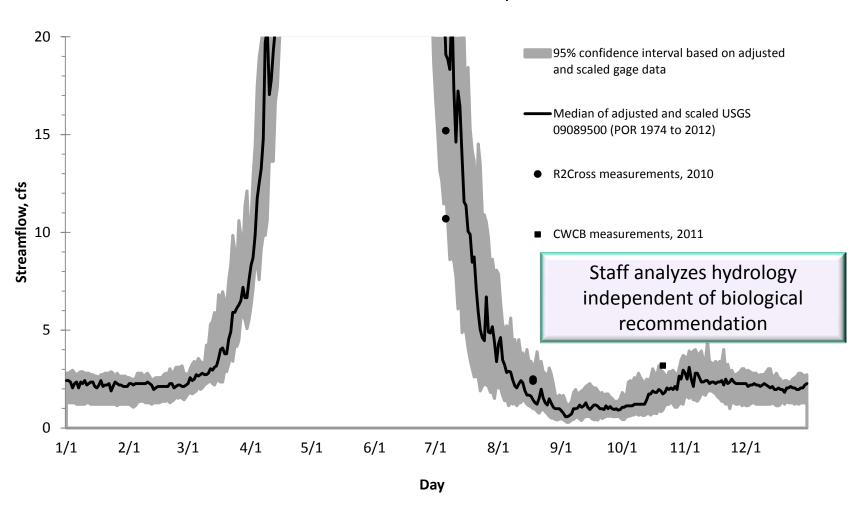


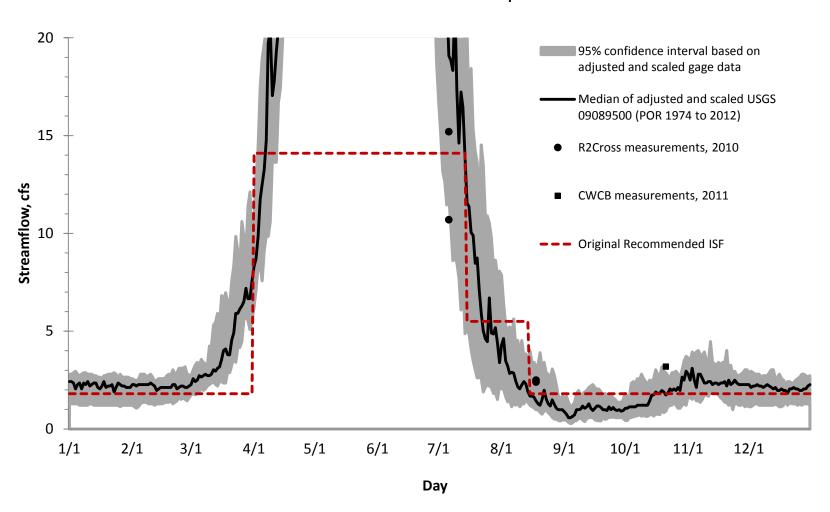
Water availability can be viewed as a necessary refinement that may impose limitations on biological quantification model findings.

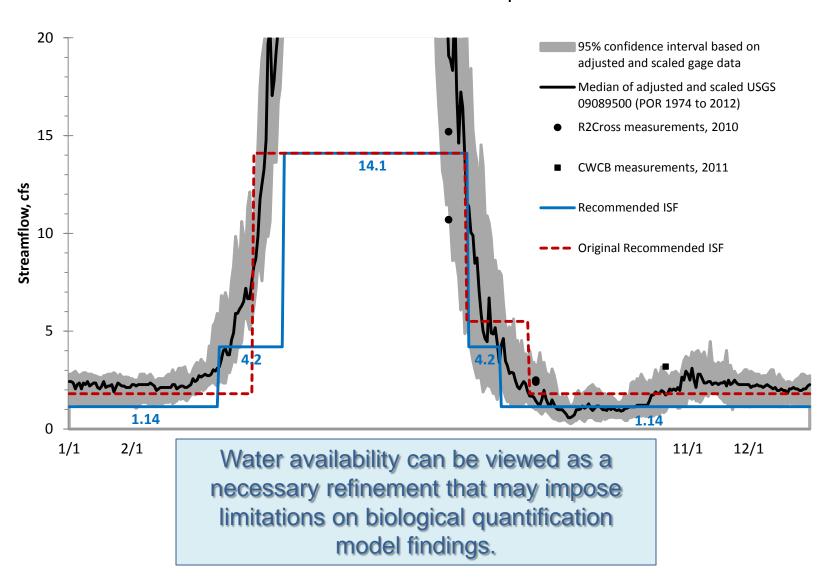


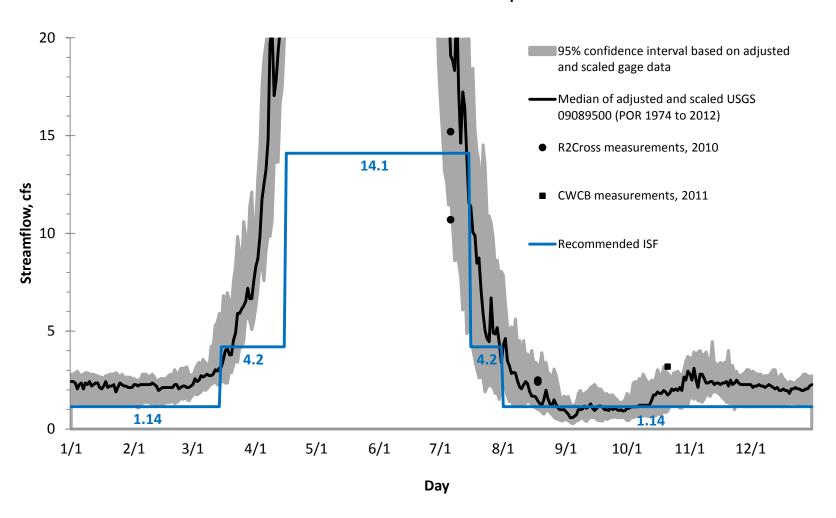
West Divide Creek
Lower terminus: confluence with Mosquito Creek











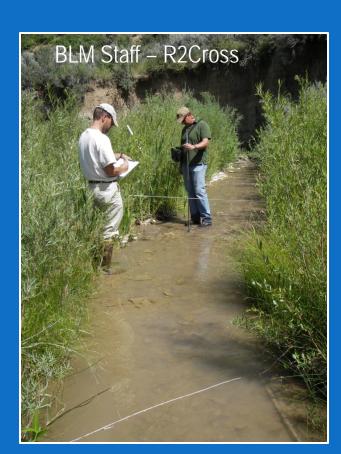
New Appropriation Process

Collect and analyze scientific information related to the required statutory findings and conduct outreach activities with stakeholders so that the Board can declare its intent to appropriate and take final action on the recommendation.



Recommending Entity's Role

- Identify the stream or lake of interest and provide location information and termini for stream reaches (UTM locations, Division, County, etc)
- Identify the aspects of the Natural Environment that would be preserved with an ISF or NLL water right (Provide any supporting reports, fish surveys, photos)
- Quantify the amount of water needed using standard methodologies: R2Cross, PHABSIM, River2D, etc.
- Prepare a cursory analysis of water availability (ie: Streamstats, water rights review)
- Identify stakeholders and participate in staff outreach efforts.
- Identify any specific stream access issues.
- Testify on natural environment and quantification science at a potential contested hearing.



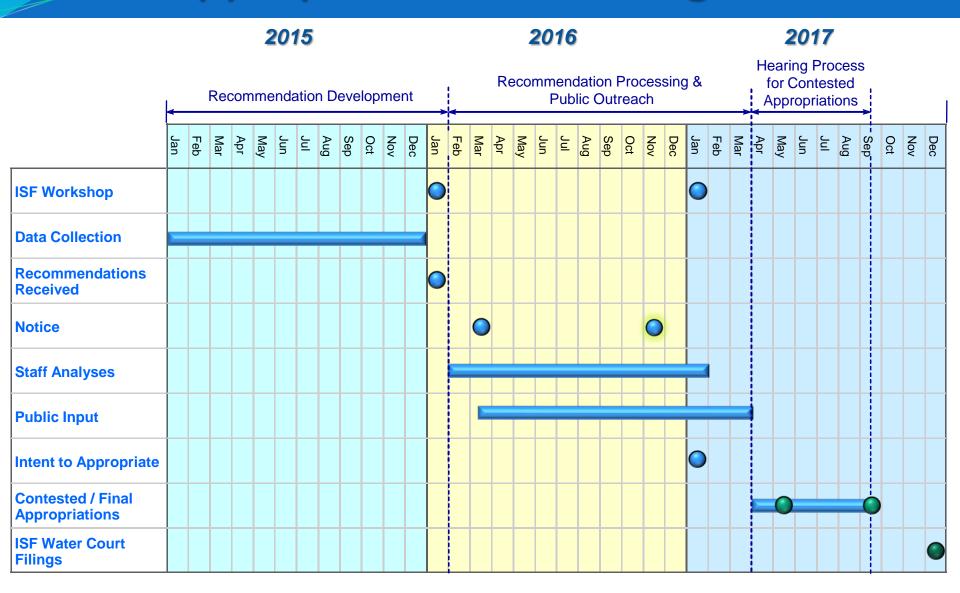
CWCB Staff's Role

- Review and analyze data provided by the recommending entity.
- Prepare a detailed water availability analysis
- Perform a site investigation on each stream and collect additional data as necessary.
- Provide notice and outreach to stakeholders
- Prepare executive summaries for the Board for each stream that provides sufficient information for the Board to make its statutory findings.
- Move the recommendation through the Board's ISF Rule 5 process from appropriation to filing with the water court. (If contested, staff will work with the recommending entity to support the appropriation).





New Appropriation Processing Timeline



Postponed Recommendations to be reconsidered in 2016 Water Division 1

| Stream Name | County |
|--|-------------|
| Coal Creek (Boulder County Open Space Boundary to Louisville Wastewater Treatment outfall) | Boulder |
| Coal Creek (to Louisville Wastewater Treatment outfall to Lafayette pumping station #2) | Dodiaci |
| Duck Creek (Coutlet of Lower Square Top lake to Inlet Duck Lake) | Clear Creek |
| Indian Creek (Headwaters to confl. Willow Gulch) | |
| McCurdy Creek (Headwaters to confl. Lost Creek) | |
| Platte Gulch (Headwaters to confl. Middle Fork South Platte River) | Park |
| Rock Creek (Headwaters to confl. Natural Falls | |
| Unnamed Tributary Rough and Tumbling Creek (Headwaters to confl. Rough and Tumbling Creek) | |

Specifics of recommendations are located at cwcb.state.co.us

Postponed Recommendations to be reconsidered in 2016 Water Division 1 (Lakes)

| Stream Name | County |
|--|--------|
| Lower Square Top Lakes UTM North: 4382623 UTM East: 436440 | Clear |
| Upper Square Top Lakes UTM North: 4382782 UTM East: 436057 | |



Specifics of recommendations are located at cwcb.state.co.us

Postponed Recommendations to be reconsidered in 2016 Water Division 2

| Stream Name | County |
|--|--------------------|
| Beaver Creek (Confl. East & West Beaver Creeks to confl. Patton Canyon) | Fremont |
| West Beaver Creek (Confl. Douglas Culch to confl. Fact Popyer Creek) | Fremont, Teller |
| (Confl. Douglas Gulch to confl. East Beaver Creek) Baker Creek | reliei |
| (headwaters to USFS Boundary) | Huerfano |
| Bonnett Creek | Tideriano |
| (headwaters to USFS Boundary) | |
| Apishapa River (Hoodwaters to confl. Horlick Capyon Crook) | Las Animas |
| (Headwaters to confl. Herlick Canyon Creek) | |
| Arkansas River (Outlet of Fish Hatchery to confl. Fountain Creek) | Pueblo |

Postponed Recommendations to be Processed in 2016

Water Division 4

| Stream Name | County |
|--|-----------|
| Little Cimarron River | Gunnison, |
| (Butte Ditch headgate to confl. Cimarron River) | Montrose |
| Cow Creek (USFS Property Boundary to confl. Uncompangre River) | Ouray |
| Kelso Creek (Headwaters to confl. Bear Gulch) | Mesa |

Water Division 5

| Stream Name | County |
|--|----------|
| Dry Fork Roan Creek (Confl. North Dry Fork Creek & South Dry Fork Creek to confl. Roan Creek) | Garfield |
| Abrams Creek (ISF Increase) (Headwaters to Mrs. Paye Ditch Hdgt.) | Eagle |

Postponed Recommendations to be Processed in 2015 Water Division 6

| Stream Name | County |
|---|--------|
| Elkhead Creek (Confl. First Creek to confl. North Fork Elkhead Creek) | Routt |
| Elkhead Creek (Confl. North Fork Elkhead Creek to inlet Elkhead Reservoir) | |
| North Fork Elkhead Creek (Headwaters to confl. Sawmill Creek) | |
| North Fork Elkhead Creek (Confl. Sawmill Creek to confl. Elkhead Creek) | |

Web Site updates on Recommended Streams

http://cwcb.state.co.us/environment/instream-flow-program/Pages/InstreamFlowAppropriations.aspx



Home > Environment > Instream Flow Program > Instream Flow Appropriations

Environment

Instream Flow Program

> Instream Flow Appropriations

Water Acquisitions

Monitoring & Enforcement

Climate Change

Watershed Protection & Restoration

Nonconsumptive

Instream Flow Appropriations

The CWCB appropriates water rights to preserve the natural environment of streams and lakes in the state. After receiving detailed recommendations for instream flow (ISF) water rights from state and federal agencies, conservation groups and members of the public, the CWCB reviews and processes the recommendations in accordance with the Board's ISF Rules.

The CWCB performs detailed hydrological analyses to ensure that all recommendations meet the statutory requirements for an ISF appropriation. The CWCB notifies and involves the public throughout the ISF appropriation process.

Recommendation Process

Each February, the CWCB holds a workshop to request recommendations for streams and lakes to be protected. The



Recommended Appropriations



Click on the links below for more information about that year's recommended appropriations:

- 2014 Proposed ISF Appropriations
- · 2013 Proposed ISF Appropriations

Questions?







