

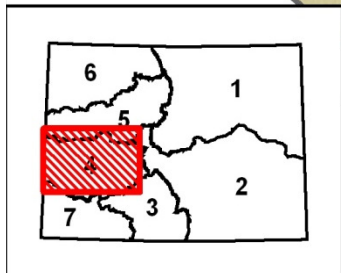
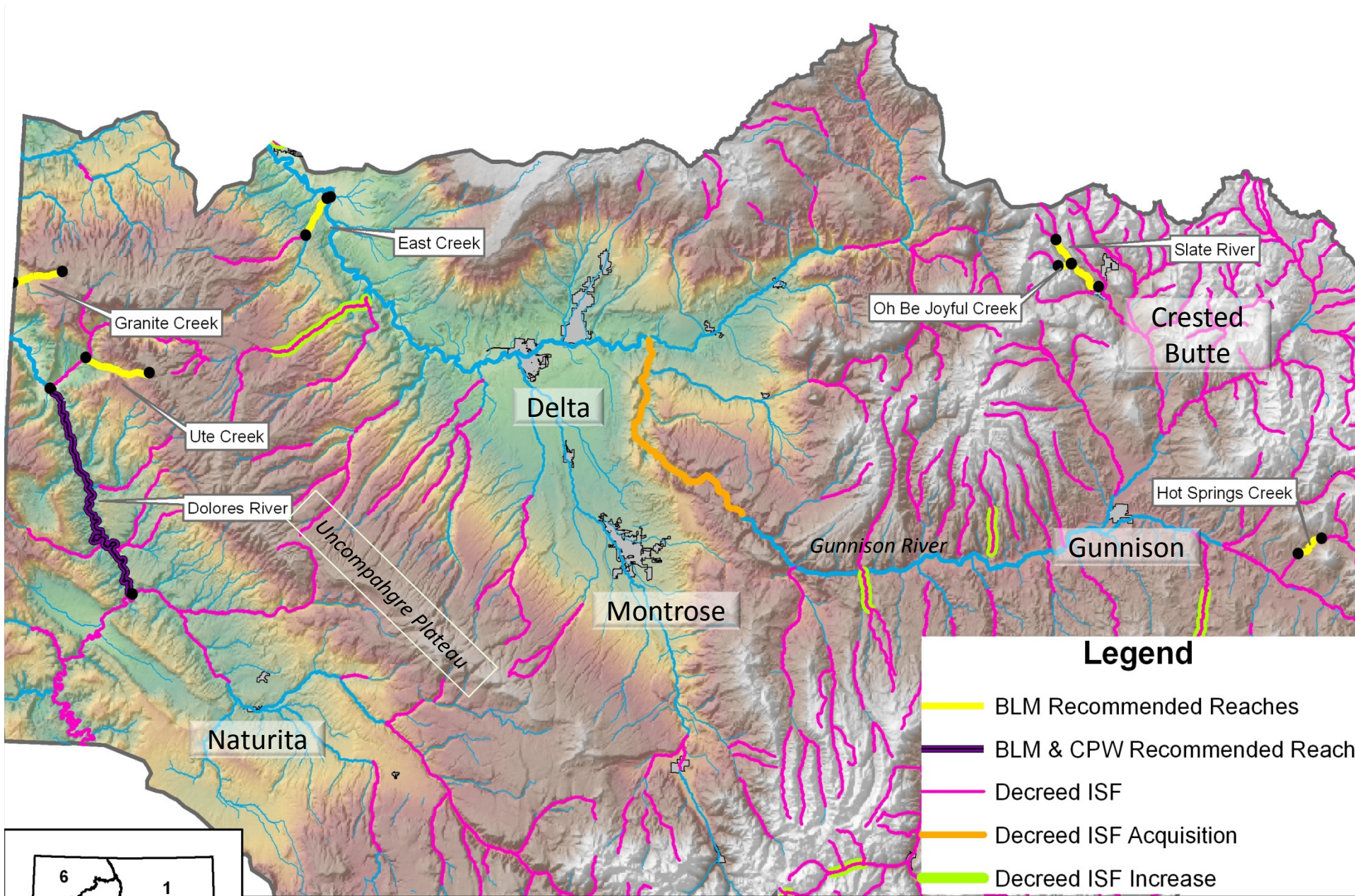


Agenda Item 29

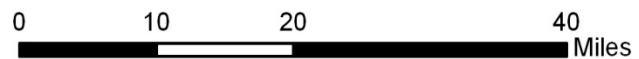
2013 ISF New Appropriation Recommendations

18 new stream segments in
Water Divisions 1, 4 and 5

Dolores River



January 27-28, 2014 Board Meeting
 Recommended Instream Flow Segments
 Water Division 4



Dolores River Map



Gateway

Uravan

Utah

Paradox Valley

Unaweep Canyon

Uncompahgre Plateau

~9 miles

West Creek

Blue Creek

Roc Creek

Mesa Creek

North Fork Mesa Creek

South Fork Mesa Creek

San Miguel River

© 2013 Google

Imagery Date: 6/10/2013 38°29'33.42" N 108°50'08.00"

4.55 mi

Staff Investigations

Provide technical analyses and information related to the required statutory findings so that the Board can declare its intent to appropriate and take final action on the recommendation.

Natural Environment
Water Availability
No Material Injury



Discharge Measurement Summary

Date Generated: Fri Sep 21 2012

File Information		Site Details										
File Name	GOVCRALT.001.WAD	Site Name	GOVERNMENT CR. ABV LT									
Start Date and Time	2012/09/18 14:35:39	Operator(s)	BRIAN EPSTEIN									
System Information		Units (English Units)	Discharge Uncertainty									
Sensor Type	FlowTracker	Distance	ft									
Serial #	P2354	Velocity	ft/s									
CPU Firmware Version	3.9	Area	ft^2									
Software Ver	2.30	Discharge	cfs									
Mounting Correction	0.0%											
Summary												
Averaging Int	40	# Stations	9									
Start Edge	REW	Total Width	4.200									
Mean SNR	30.5 dB	Total Area	1.844									
Mean Temp	56.44 °F	Mean Depth	0.439									
Disch. Equation	Mid-Section	Mean Velocity	0.1039									
		Total Discharge	0.1915									
Measurement Results												
St	Clock	Loc	Method	Depth	%Dep	MeasD	Vel	CorrFact	MeanV	Area	Flow	%Q
0	14:35	0.40	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0
1	14:35	1.00	0.6	0.290	0.6	0.116	0.0541	1.00	0.0541	0.160	0.0086	4.5
2	14:37	1.50	0.6	0.400	0.6	0.160	0.0958	1.00	0.0958	0.200	0.0192	10.0
3	14:43	2.00	0.6	0.480	0.6	0.192	0.0285	1.00	0.0285	0.240	0.0069	3.6
4	14:44	2.50	0.6	0.570	0.6	0.228	0.0390	1.00	0.0390	0.285	0.0111	5.8
5	14:47	3.00	0.6	0.650	0.6	0.260	0.1430	1.00	0.1430	0.325	0.0465	24.3
6	14:50	3.50	0.6	0.620	0.6	0.248	0.1358	1.00	0.1358	0.310	0.0421	22.0
7	14:52	4.00	0.6	0.590	0.6	0.236	-0.1782	-1.00	0.1782	0.324	0.0572	29.8
8	14:52	4.60	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0

Measurement Results

Rows in Italics indicate a QC warning. See the Quality Control page of this report for more information.



Natural Environment

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



Shell Creek

*brook trout, macro invertebrates
healthy riparian community*



Hot Springs Creek Reservoir

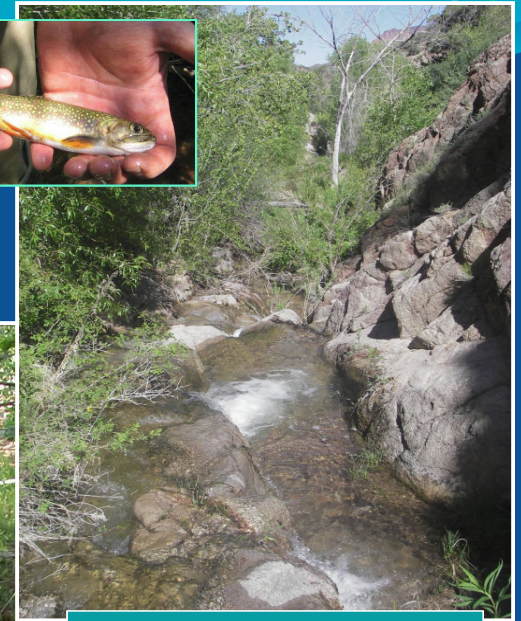


Hot Springs Creek (increase)

*brook trout, longnose dace, macro
invertebrates, recovering riparian community*



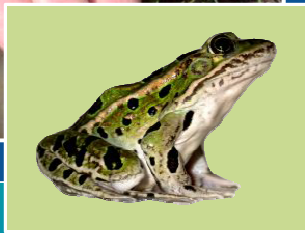
Speckled dace in spawning colors



Ute Creek
brook trout, macro invertebrates, robust riparian community



Bluehead Sucker in Spawning Colors

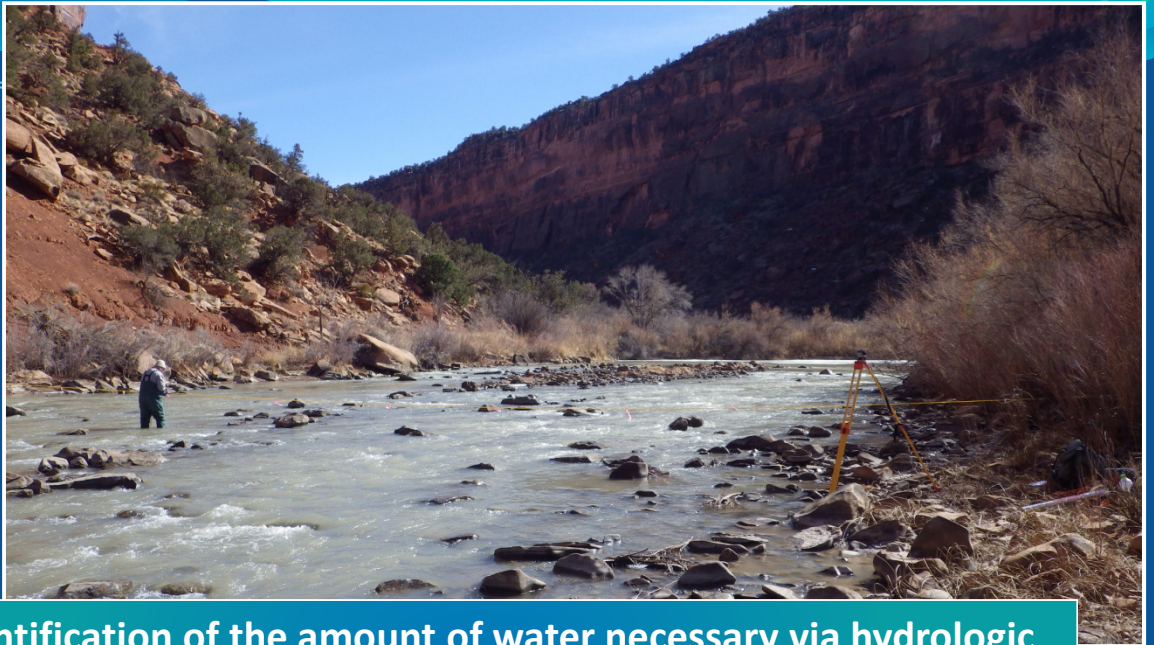


East Creek
speckled dace – upper reach, flannelmouth, bluehead and white sucker – lower reach northern leopard frog, robust riparian community



Granite Creek
rainbow and brown trout, macro invertebrates, robust riparian community

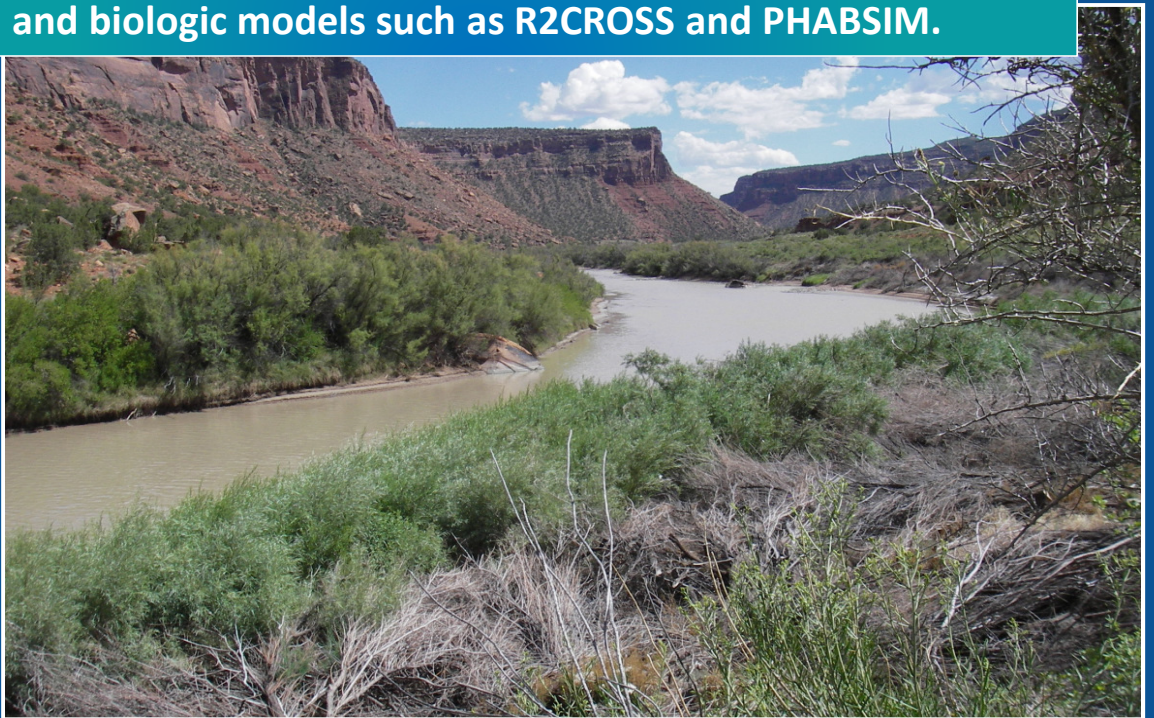




Quantification of the amount of water necessary via hydrologic and biologic models such as R2CROSS and PHABSIM.

Dolores River
*BLM sensitive species and CPW species of special concern -
flannelmouth and bluehead sucker,
roundtail chub
speckled dace*

*Native riparian vegetation
recovering following tamarisk
removal*



Special Stream Characteristics

Stream	Sensitive Fish Species or Species of Special Concern	Roundtable Identified Environmental Attributes
Granite Creek	None	Rare Plants and Significant Plant Communities
Ute Creek	None	Significant Plant Communities
Dolores River	bluehead & flannelmouth suckers, roundtail chub	None
East Divide Creek	Colorado river cutthroat trout	bluehead sucker, Colorado river cutthroat trout
Left Fork Carr Creek	Genetically pure native cutthroat trout	None
Beaver Creek	Colorado river cutthroat trout	Colorado river cutthroat trout; Important Riparian Habitat: Riparian/Wetland - Dependent Rare Plants, Significant Riparian/Wetland Plant Communities
Beaver Dams Creek	Colorado river cutthroat trout	None
West Divide Creek	Colorado river cutthroat trout , bluehead sucker	bluehead sucker, roundtail chub, flannelmouth sucker, Colorado river cutthroat trout

Water Availability

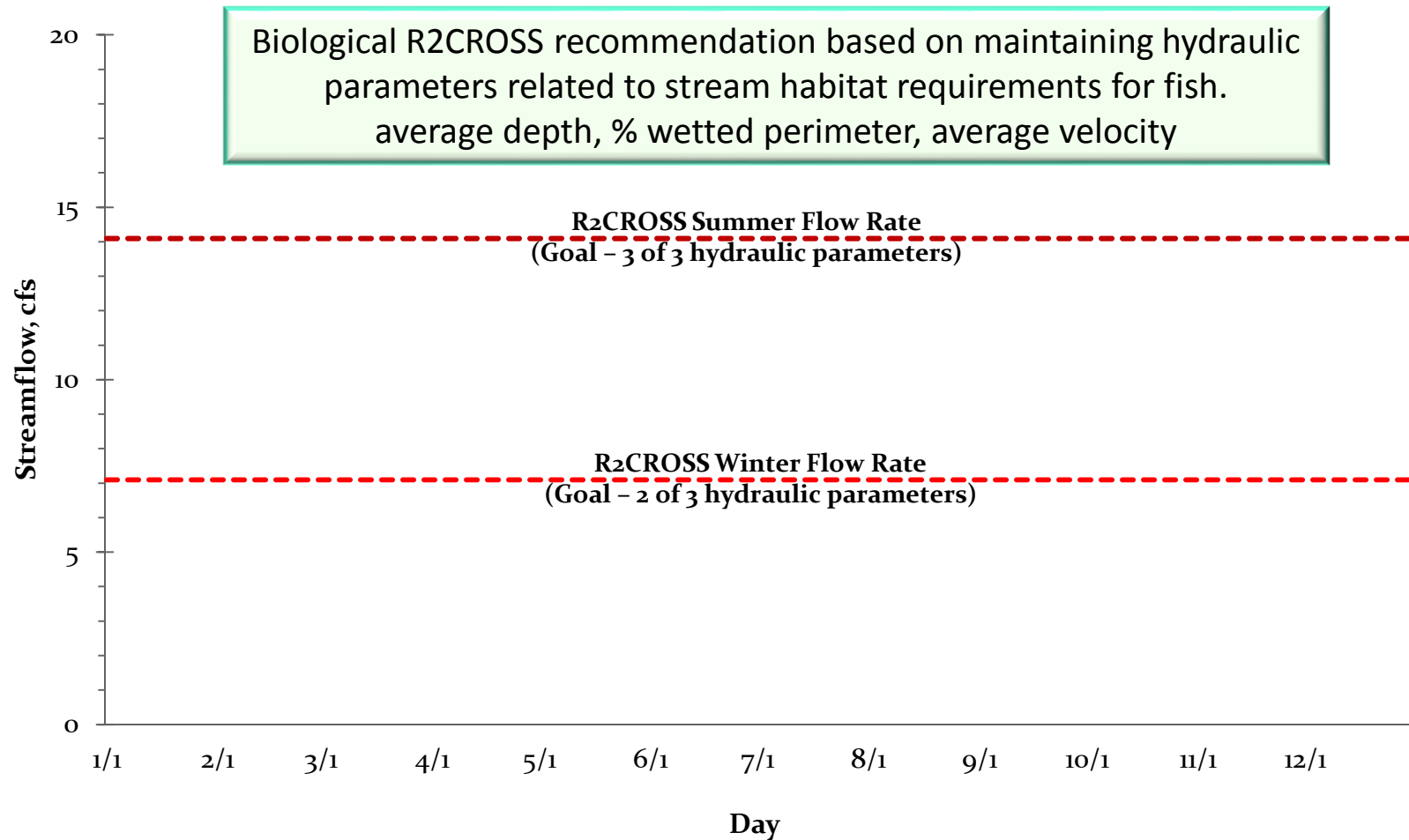
The natural environment will be preserved to a reasonable degree by the water available for the appropriation

- 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.

Water Availability

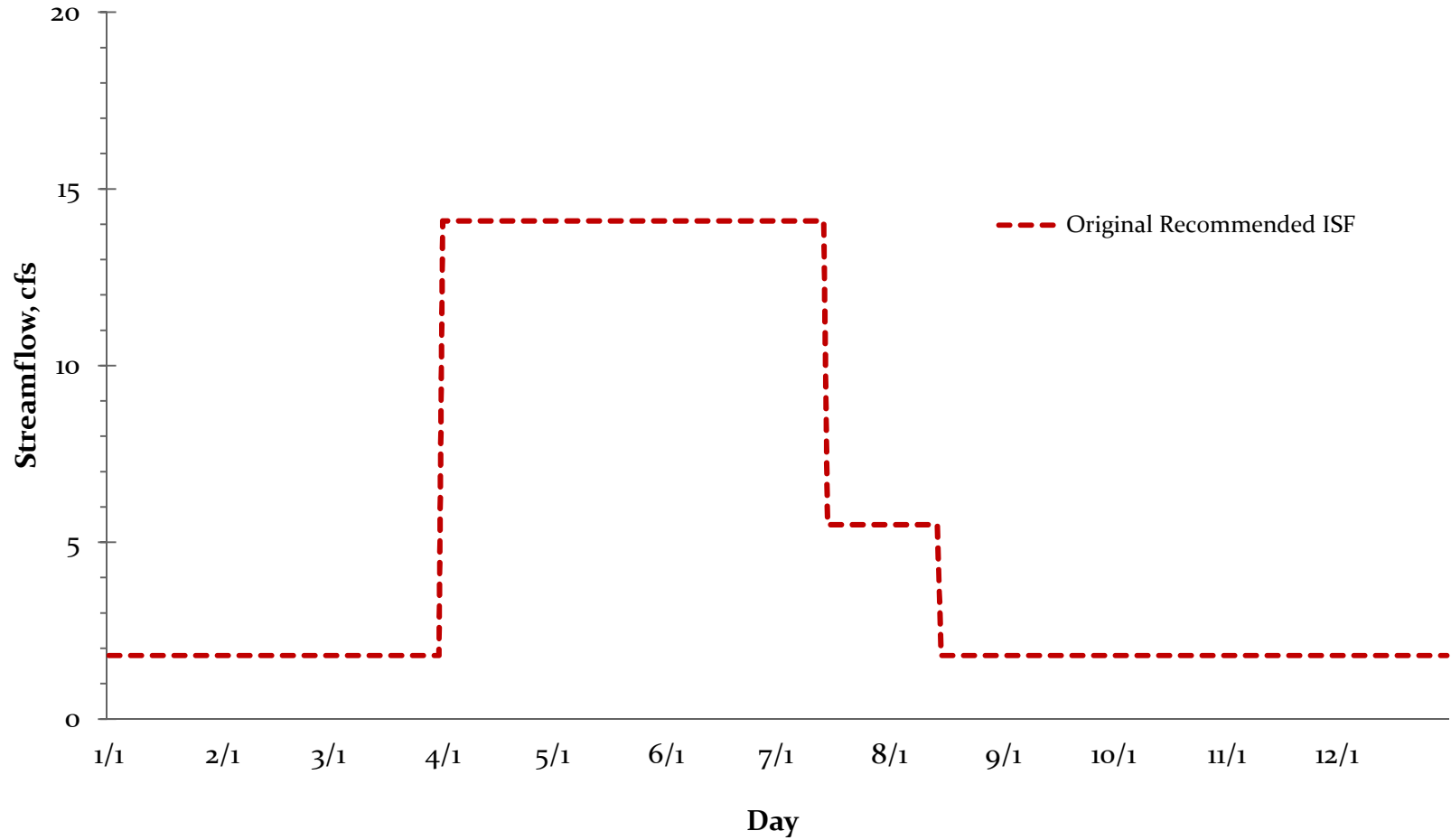
West Divide Creek

Lower terminus: confluence with Mosquito Creek



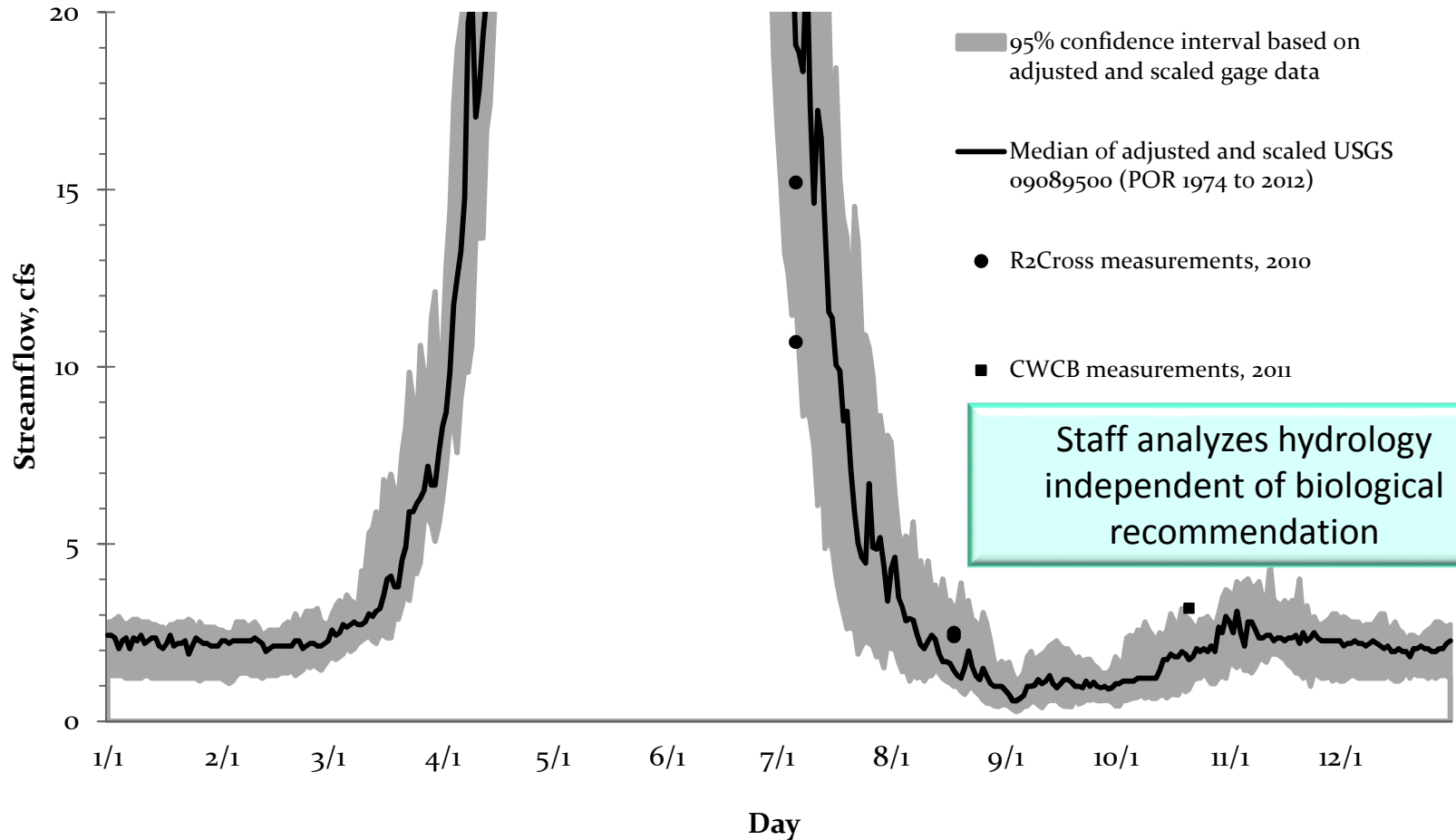
Water Availability

West Divide Creek
Lower terminus: confluence with Mosquito Creek



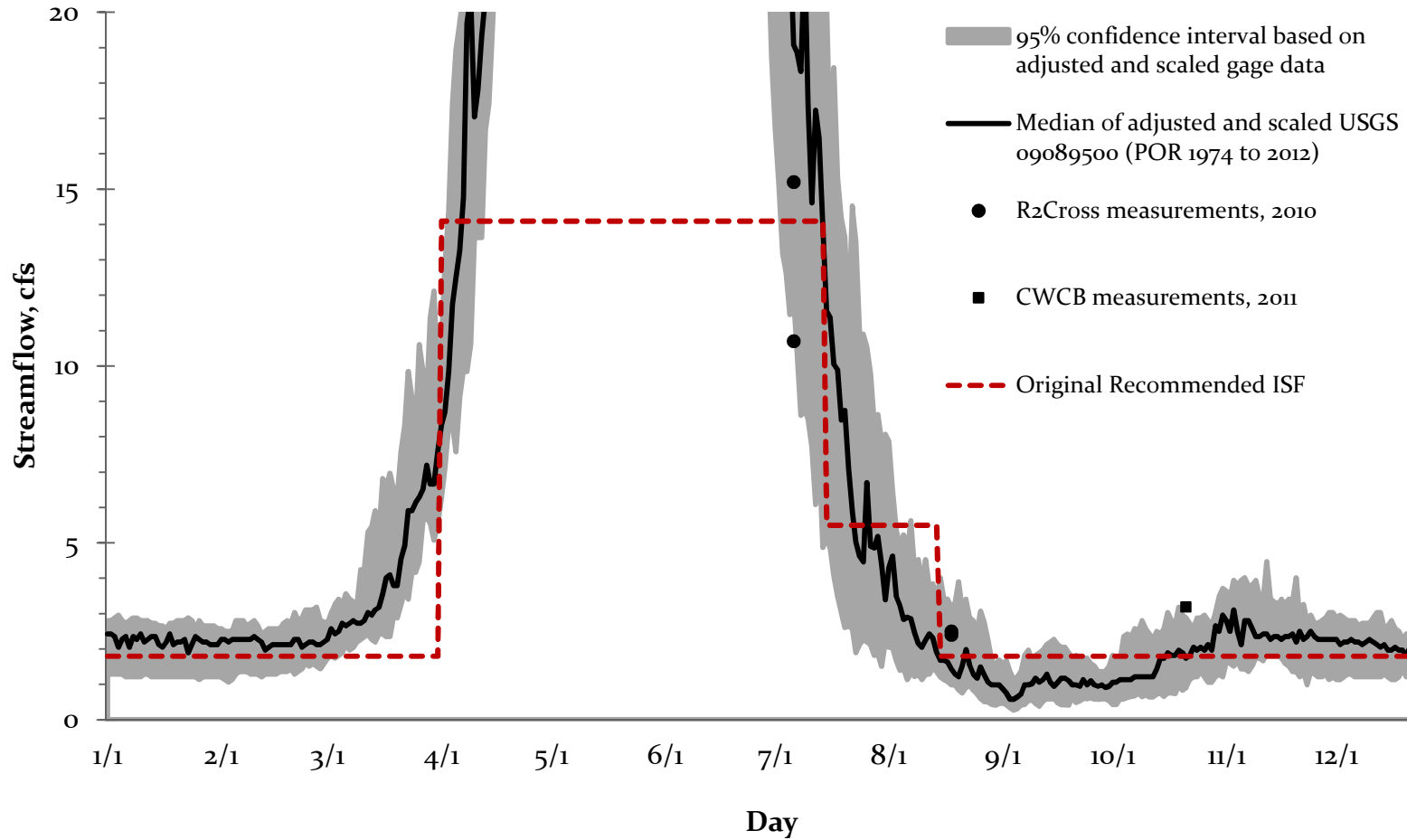
Water Availability

West Divide Creek
Lower terminus: confluence with Mosquito Creek



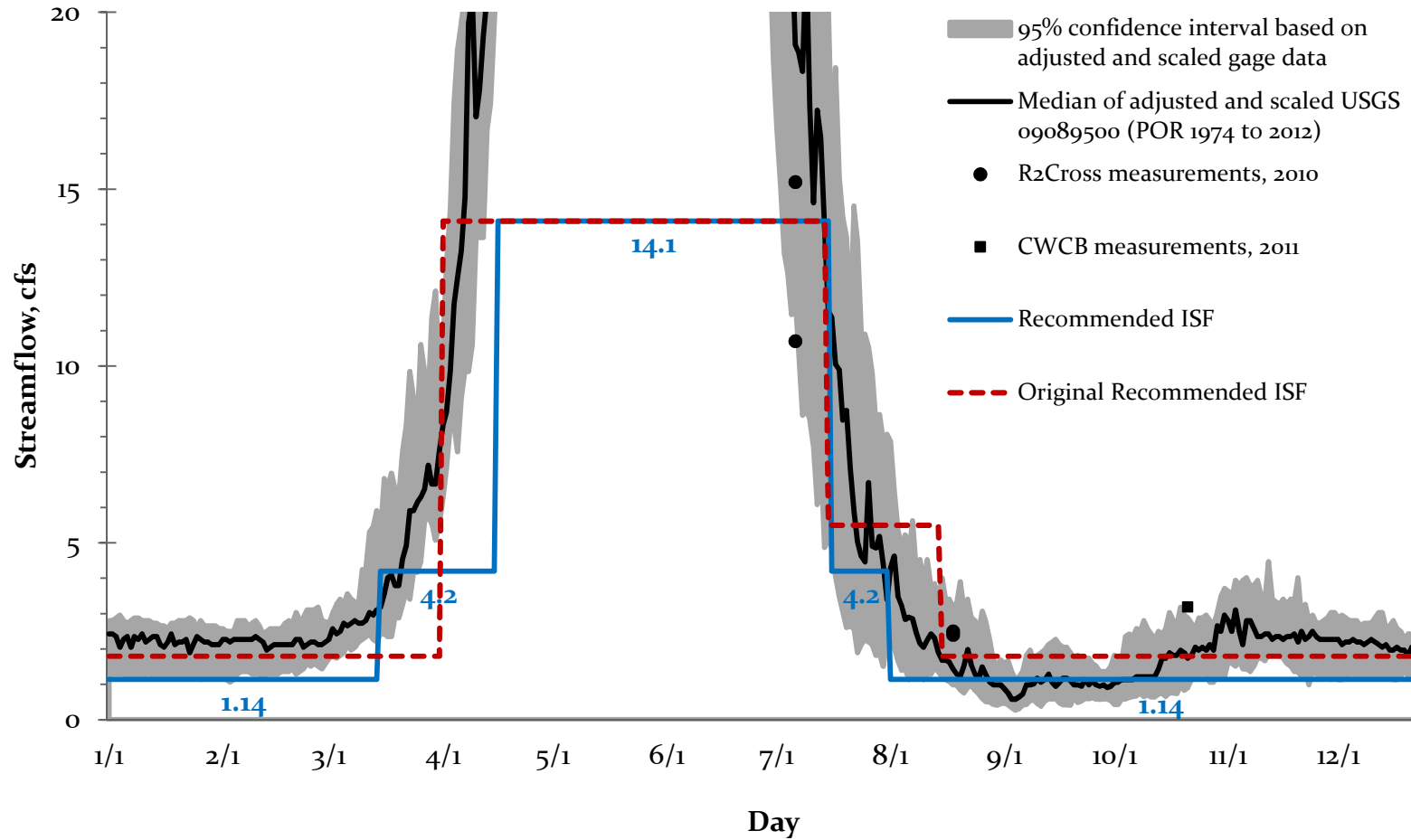
Water Availability

West Divide Creek Lower terminus: confluence with Mosquito Creek



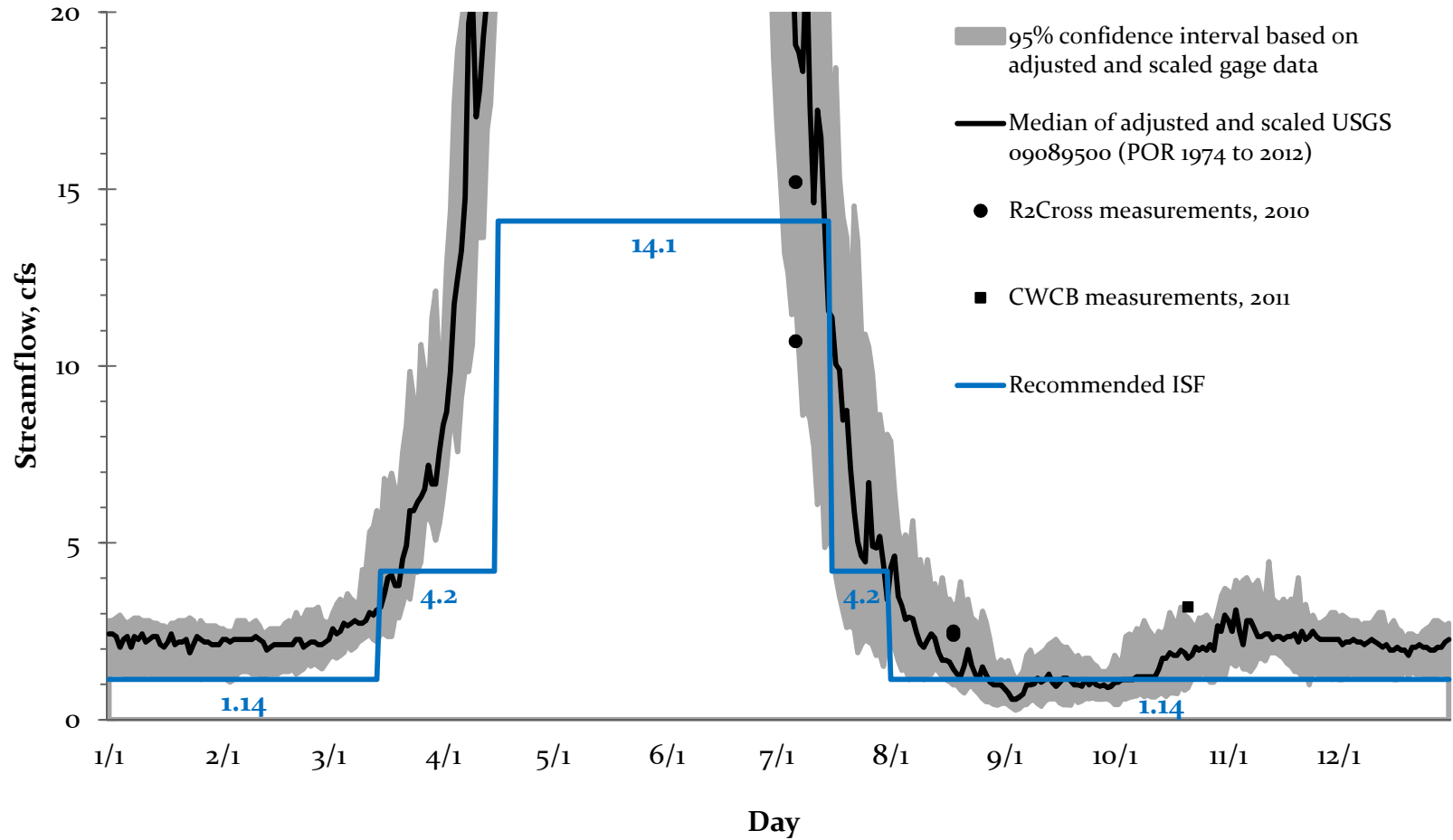
Water Availability

West Divide Creek
Lower terminus: confluence with Mosquito Creek



Water Availability

West Divide Creek
Lower terminus: confluence with Mosquito Creek



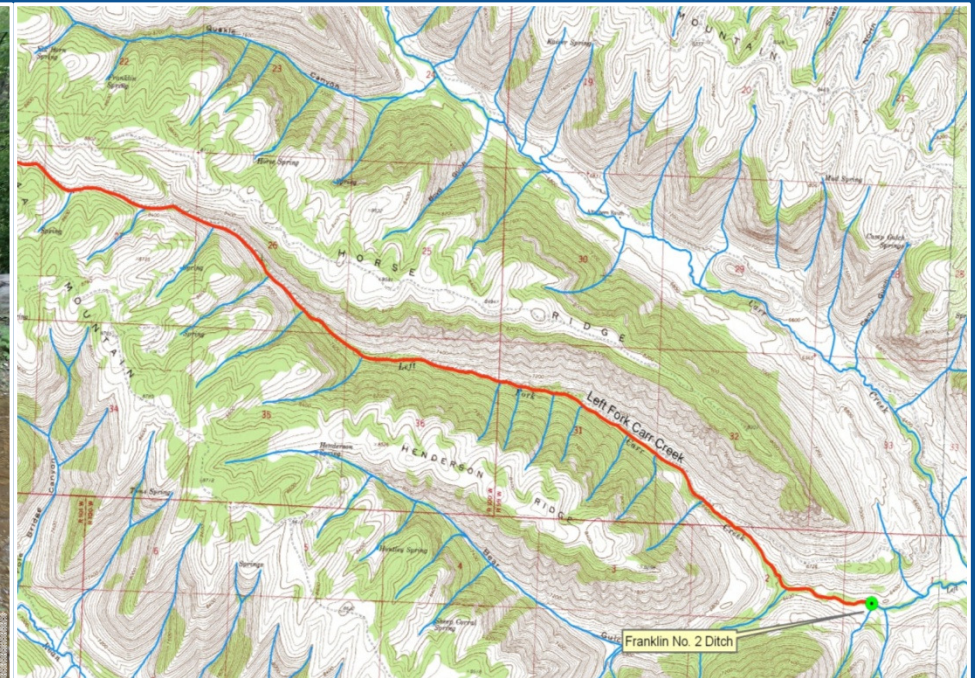
No Material Injury to Water Rights

The natural environment can exist without material injury to water rights

- Review tabulation of water rights and plot locations.
- Determine if any existing water rights create issues with water availability.
- When possible, identify any undecreed uses that should be recognized under 37-92-102(3) b, with local stakeholders.
- Discuss existing rights with water commissioners and division engineer.



Tom Scott – Irrigates out of Franklin No. 2 Ditch



A photograph of three men standing in a grassy field next to a white pickup truck. One man on the left is wearing a tan shirt and cap, holding a clipboard. The man in the middle is wearing a blue plaid shirt and a baseball cap. The man on the right is wearing a blue plaid shirt and a wide-brimmed hat. A black dog is visible in the lower right foreground. The background shows a hilly landscape with green vegetation.

Stakeholder Coordination & Collaboration

Formal Notice and Meetings

- ISF Workshop
- Subscription Mailing Lists
- CWCB Board Meetings
- Staff Presentations
- Site Investigations with Stakeholders / DWR

Colorado River District

Crested Butte Land Trust

Division Engineers and Water Commissioners

Dolores Water Conservancy District

Garfield County

Gateway Canyon Resorts

Grand River Consulting representing West Divide

Water Conservancy District

Gunnison County

High Country Citizens Alliance

Jesse Kruthaupt – Hot Springs Creek irrigator

Larimer County

Montrose, Mesa, Montezuma County

Protect the Flows – 30+ Business Owners

SanMiguel County

Southwest Basin Roundtable

Southwest Water Conservancy District

Taylor Haynes – Shell Creek land owner and irrigator

The High Lonesome Ranch – Scott Stewart

Tom Scott – Left Fork Carr Creek

landowner and irrigator

Town of Rifle – Dick Deussen, Utilities Director

Trout Unlimited

Upper Gunnison River Basin – 24 Business Owners

Upper Gunnison Water Conservancy District

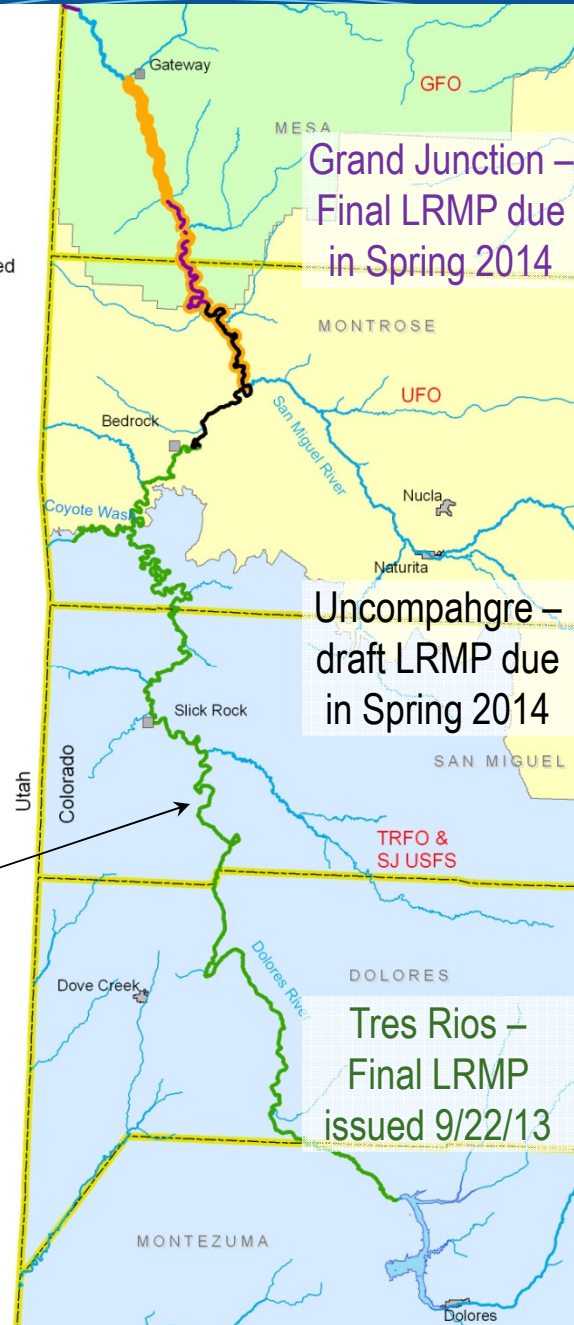
Western Resource Advocates

Background Information on ISF / WSR process

Wild & Scenic Rivers Suitability Status
Dolores River
McPhee Reservoir - CO/UT Boundary
Water Divisions 4 & 7

Legend

- GFO Prelim Suitability Recommended
- TRFO & SJ USFS Suitable
- UFO Eligibility Determinations
- Proposed CWCB ISF
- Municipal Boundaries
- County Boundaries
- BLM GFO
- BLM UFO
- BLM TRFO & SJ USFS












Existing ISF
78 cfs, 1975 105 mi

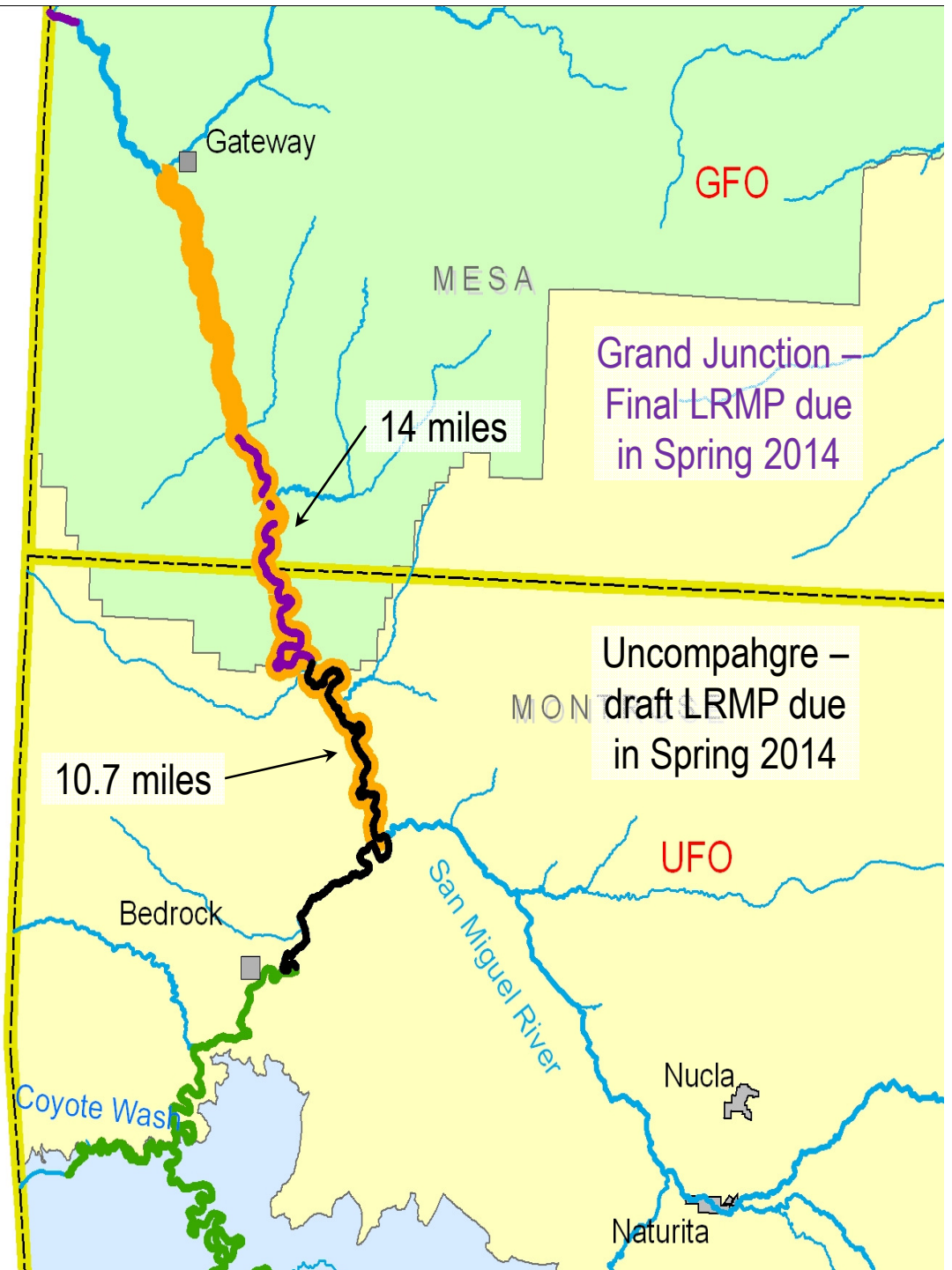
CWCB letter to BLM Grand Junction Field Office in May 2013:

"The CWCB believes that a suitability determination for the subject Dolores River reaches is not the best method for protecting this portion of the Dolores River corridor. The CWCB believes that the existing and pending ISF water rights on the San Miguel and Dolores rivers will provide adequate protections for the stream-flow related values in the subject segments."

**Wild & Scenic Rivers Suitability Status
Dolores River
McPhee Reservoir - CO/UT Boundary
Water Divisions 4 & 7**

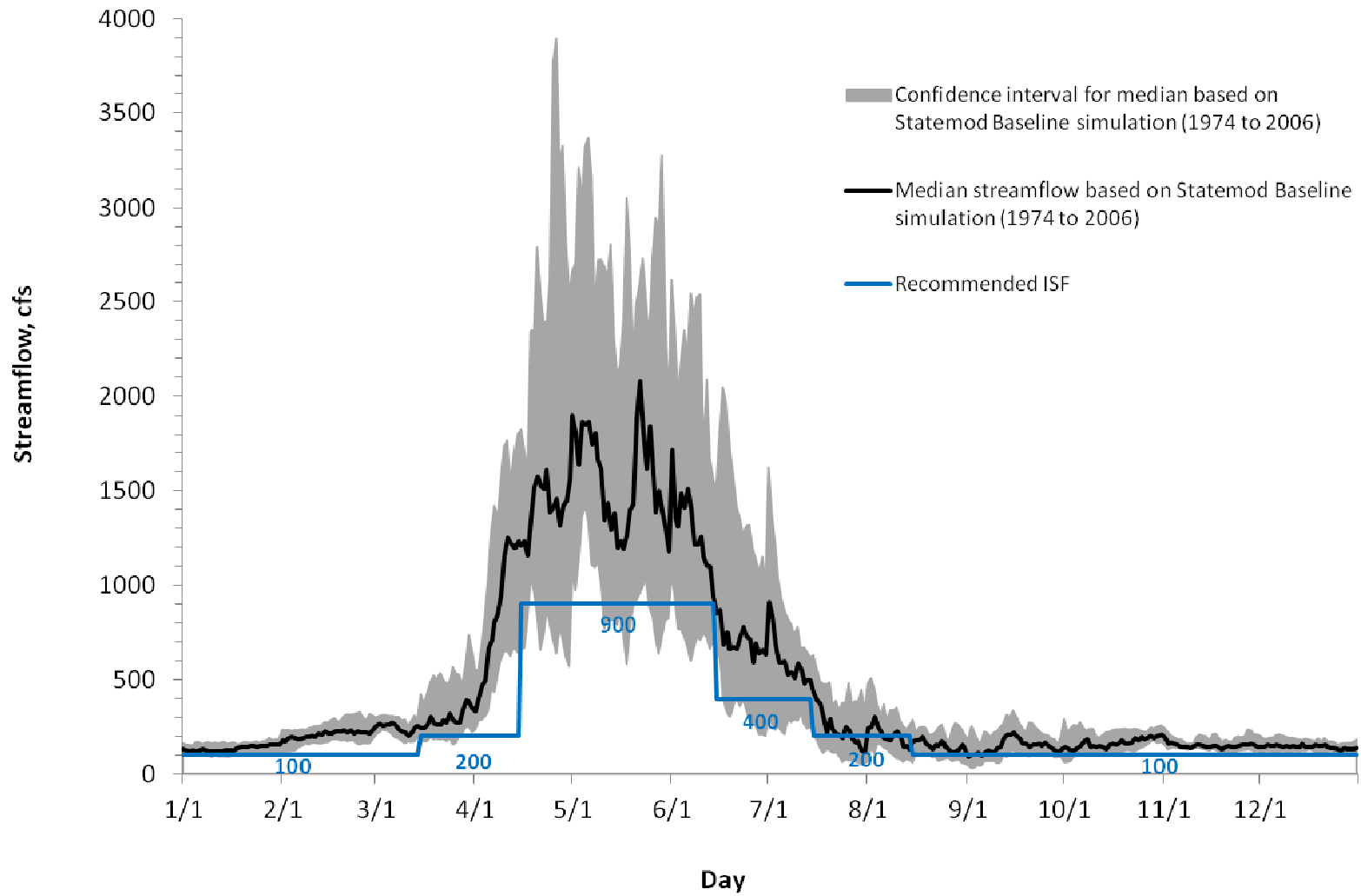
Legend

-  GFO Prelim Suitability Recommended
-  TRFO & SJ USFS Suitable
-  UFO Eligibility Determinations
-  Proposed CWCB ISF
-  Municipal Boundaries
-  County Boundaries
-  BLM GFO
-  BLM UFO
-  BLM TRFO & SJ USFS



Dolores River

Lower terminus: confluence with West Creek



- Board declared its intent to appropriate ISF rights on the Dolores, January 2014
- Date for a notice to contest was March 31st, 2015.
- Hearing for the contested Dolores River appropriation will be held in conjunction with the Board's September 2015 Board Meeting.