

CPW Instream Flow Program Planning Workshop

January 30, 2019

Colorado Parks and Wildlife Proposals for 2019-
2020



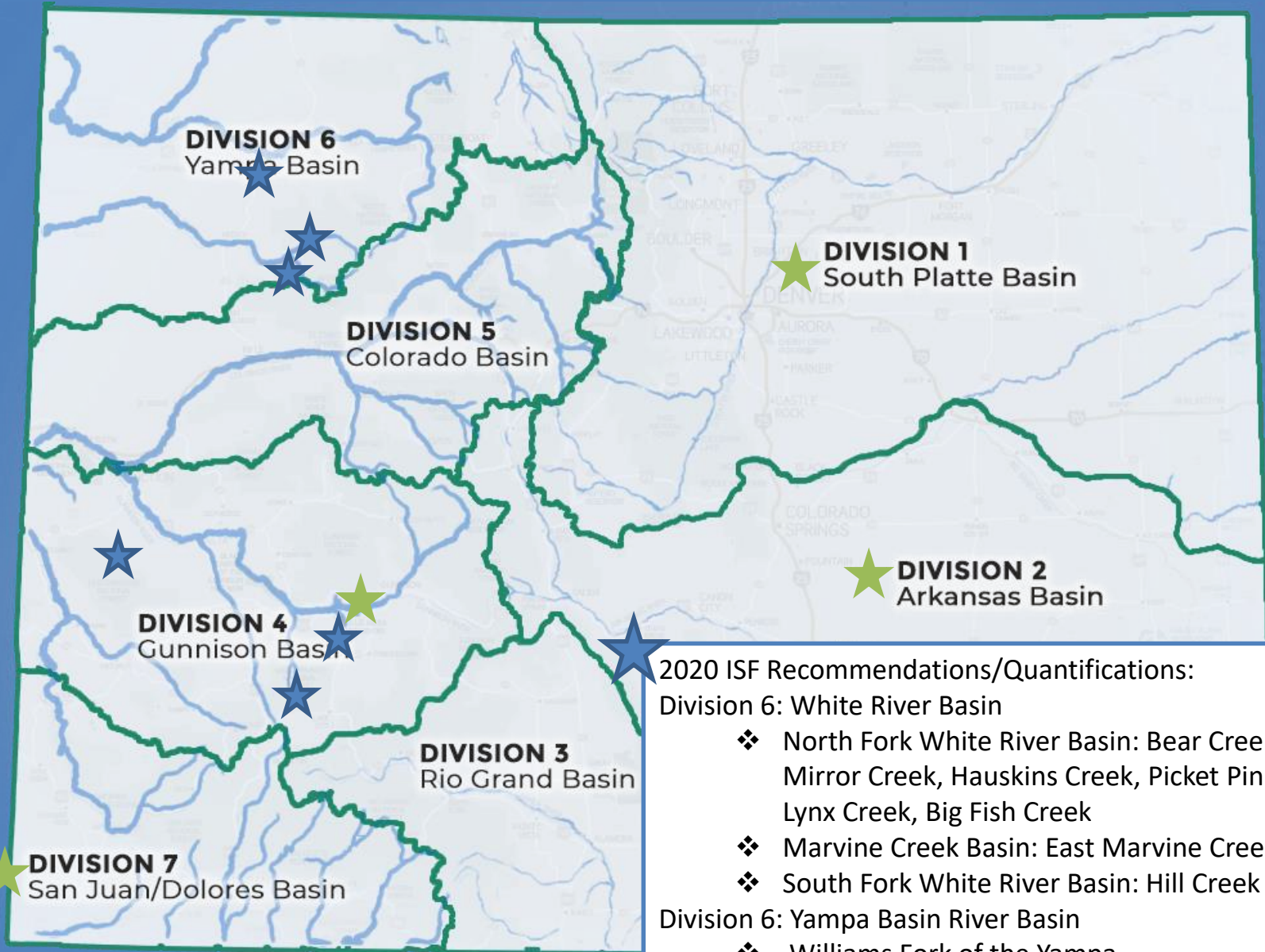
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2020 CPW Instream Flow Recommendations



2020 ISF Recommendations/Quantifications:

Division 6: White River Basin

- ❖ North Fork White River Basin: Bear Creek, Mirror Creek, Hauskins Creek, Picket Pin Creek, Lynx Creek, Big Fish Creek
- ❖ Marvine Creek Basin: East Marvine Creek
- ❖ South Fork White River Basin: Hill Creek

Division 6: Yampa Basin River Basin

- ❖ Williams Fork of the Yampa

Div 4: Cow Creek, Pine Creek, Kelso Creek

Future Upcoming ISF Recommendations

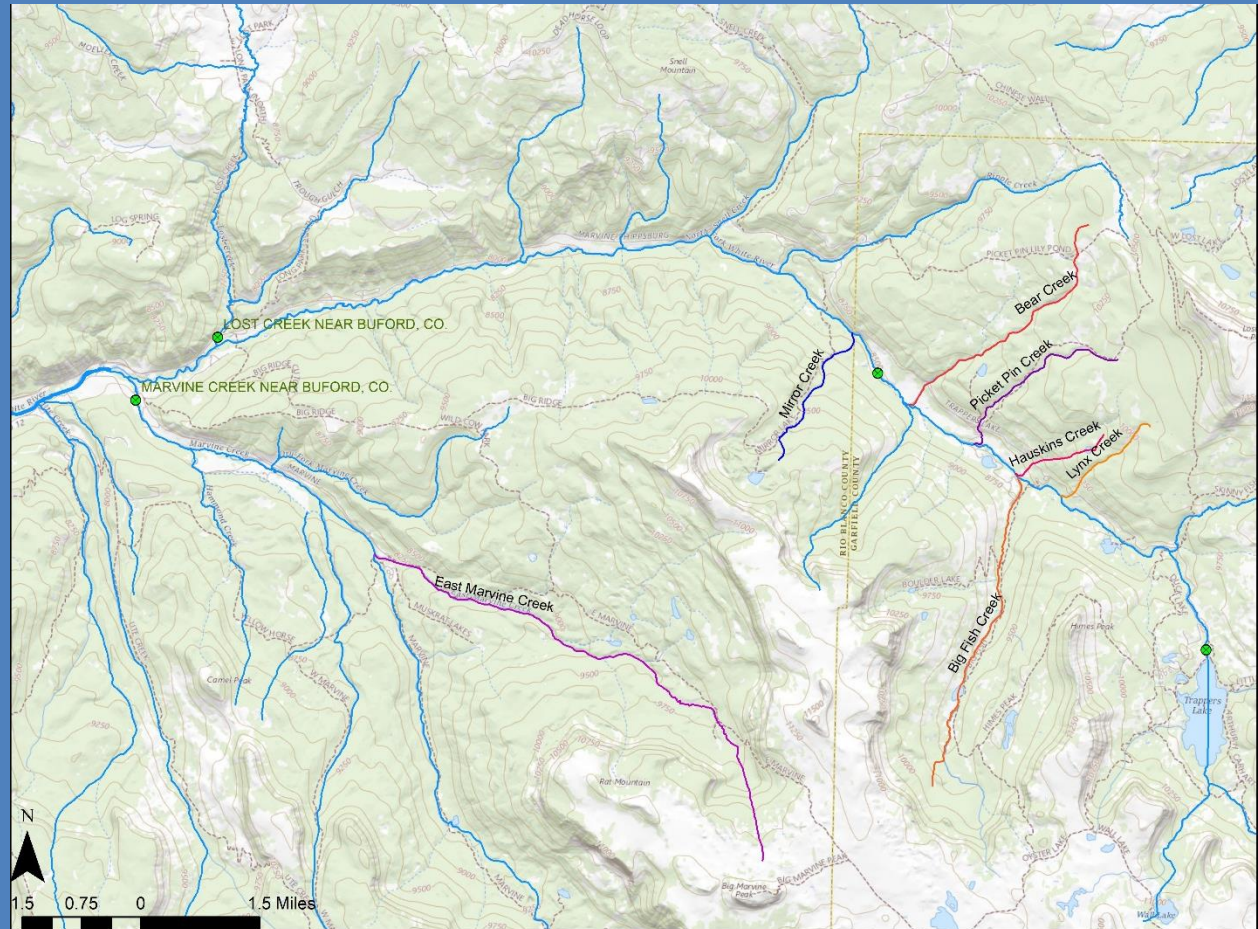
2020 ISF Quantification – Water Division 6

North Fork White River Basin:

- ❖ Bear Ck
- ❖ Big Fish Ck
- ❖ Hauskins Ck
- ❖ Lynx Ck
- ❖ Mirror Ck
- ❖ Picket Pin Ck

Marvine Creek Basin:

- ❖ East Marvine Ck



Bear Creek (Headwaters to the conf. with North Fork White River)

Brook Trout
Fishery



Preliminary R2Cross Results :

Date	Q measured	40%- 250%	Hydraulic Equation	Flow Meeting Two Criteria	Flow Meeting Three Criteria
8/1/2018	1.6 cfs	0.6 – 4 cfs	Manning's	1.1 cfs	3.2 cfs
8/1/2018	1.6 cfs	0.6 – 4 cfs	T&Z	1.2 cfs	1.8 cfs
Preliminary Flow Recommendation:				1.15 cfs	2.5 cfs

Big Fish Creek (Headwaters to the conf. with North Fork White River)



Brook Trout,
Rainbow Trout, and
Mottled Sculpin
Fishery

Preliminary R2Cross Results :

Date	Q measured	40%- 250%	Hydraulic Equation	Flow Meeting Two Criteria	Flow Meeting Three Criteria
7/11/2018	35.7 cfs	14.3 – 89.3 cfs	T&Z	5.6 cfs	15.2 cfs
7/11/2018	35.7 cfs	14.3 – 89.3 cfs	T&Z	3.3 cfs	4.2 cfs
Preliminary Flow Recommendation:				4.4 cfs	9.7 cfs

Hauskins Creek (Headwaters to the conf. with North Fork White River)



Preliminary R2Cross Results :

Date	Q measured	40%-250 %	Hydraulic Equation	Flow Meeting 2 Criteria	Flow Meeting 3 Criteria
7/11/17	2.27 cfs	0.9 – 5.7 cfs	Manning's	1.1 cfs	4.2 cfs
7/11/18	0.52 cfs	0.2 – 1.3 cfs	T&Z	0.7 cfs	1.6 cfs
Preliminary Flow Recommendation:				1 cfs	3 cfs

Brook Trout and
Colorado River
Cutthroat Trout
Fishery



Lynx Creek (Headwaters to the conf. with North Fork White River)

Brook Trout
Fishery



Preliminary R2Cross Results :

Date	Q measured	40%- 250%	Hydraulic Equation	Flow Meeting Two Criteria	Flow Meeting Three Criteria
7/11/2017	1.72 cfs	0.7 – 4.3 cfs	Manning's	Out of Range	
7/11/2017	1.15 cfs	0.5 – 2.9 cfs	Manning's	0.7 cfs	1.0 cfs

Mirror Creek (Headwaters to conf. with North Fork White River)



Preliminary R2Cross Results :

Date	Q measured	40%- 250%	Hydraulic Equation	Flow Meeting Two Criteria	Flow Meeting Three Criteria
8/2/2018	2.7 cfs	1.1 – 6.7 cfs	Manning's	0.5 cfs	2.7 cfs
8/2/2018	2.7 cfs	1.1 – 6.7 cfs	Manning's	2.3 cfs	3.0 cfs
Preliminary Flow Recommendation:				1.4 cfs	2.9 cfs

Picket Pin Creek (Headwaters to the conf. with North Fork White River)



Preliminary R2Cross Results :

Date	Q measured	40%- 250%	Hydraulic Equation	Flow Meeting 2 Criteria	Flow Meeting 3 Criteria
7/11/17	0.91 cfs	0.4 – 2.3 cfs	Manning's	0.9 cfs	Out of range
7/11/18	0.12 cfs	0.05 – 0.3 cfs	T&Z	0.4 cfs	2.5 cfs
Preliminary Flow Recommendation:				0.65 cfs	2.5 cfs



Brook Trout
Fishery

East Marvine Creek (Headwaters to conf. with Marvine Creek)

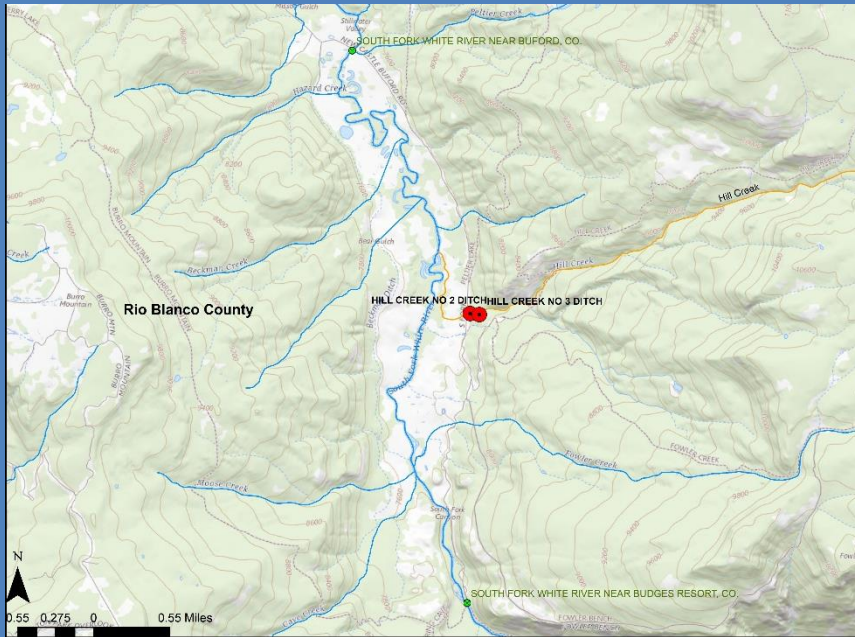


Brook Trout, Rainbow Trout, and Colorado River Cutthroat Trout Fishery

Preliminary R2Cross Results :

Date	Q measured	40%-250%	Hydraulic Equation	Flow Meeting Two Criteria	Flow Meeting Three Criteria
7/10/2018	26.8 cfs	10.7 – 67 cfs	T&Z	2.75 cfs	2.6 cfs
7/10/2018	26.8 cfs	10.7 – 67 cfs	T&Z	1.7 cfs	4.4 cfs
Preliminary Flow Recommendation:				2.15 cfs	3.6 cfs

2020 ISF Recommendations – Water Division 6 Hill Creek (Headwaters to Hill Creek #2 & #3 Ditches)

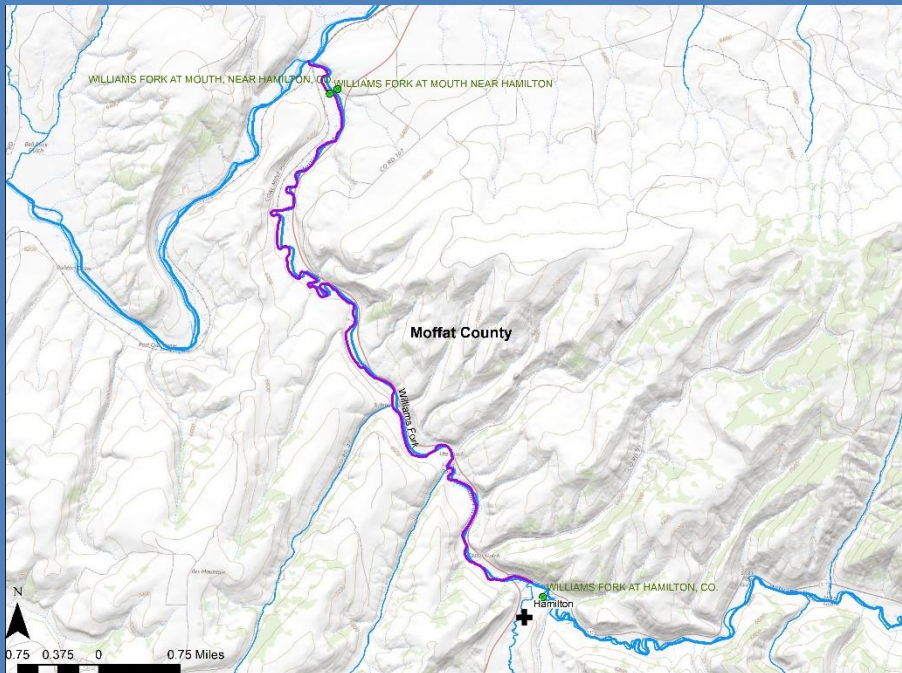


Preliminary R2Cross Results :

Date	Q measured	40%- 250%	Hydraulic Equation	Flow Meeting Two Criteria	Flow Meeting Three Criteria
9/12/2018	7.7 cfs	3.1 – 19.4 cfs	T&Z	1.3 cfs	2.0 cfs

2020 ISF Recommendations – Water Division 6

Williams Fork Yampa River (conf. Morapos Ck to conf. Yampa River)



Preliminary R2Cross Results :

Date	Q measured	40%- 250%	Hydraulic Equation	Flow Meeting Two Criteria	Flow Meeting Three Criteria
9/18/2018	5.7 cfs	2.3 – 14.3 cfs	T&Z	63 cfs	83 cfs

2020 ISF Recommendations – Water Division 4



- ❖ Cow Creek (USFS Boundary to conf. Uncompahgre River)
- ❖ Kelso Creek (Headwaters to conf. with Bear Gulch)
- ❖ Pine Creek (Headwaters to conf. with Morrow Point Res)



Upcoming Recommendations from New Partnerships with Various Federal Agencies

- ❖ National Parks Service
 - ❖ Curecanti NRA
- ❖ US Army – Fort Carson Army Base
 - ❖ Little Turkey Creek, Little Fountain Creek, and Rock Creek



OTHER POTENTIAL ISF RECOMMENDATIONS FOR 2020

Division 1:

- Duck Creek/Unnamed trib to Duck Creek (outlet of Upper Square Top Lake to Lower Square Top Lake & outlet of Lower Square Top Lake to Duck Lake)
 - CPW Greenback trout recovery project
- North Fork Little Thompson and previously noted streams flowing through Larimer County CE's
- Redstone Creek (Headwaters to conf. with Buckhorn Creek)
 - New Larimer County CE

Division 6:

- Paradise Creek (Headwaters to conf. North Fork of the White River)
- South Fork of the White River (Flat Tops Wilderness Boundary to conf. with Swede Creek)
- Williams Fork of the Yampa River: Previously noted Morapos Creek, Waddle Creek, Pagoda Creek, and South Fork of the Williams Fork

Division 7:

- Collaborative protection efforts with the Dolores TU Chapter and other stakeholders



Questions/Concerns/Comments?

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