

Instream Flow Committee Flow Recommendations IWG Presentation

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Guiding Principle #1

1. *Streamflow that:*
 - a) *Provides passage,*
 - b) *Provides healthy habitat,*
 - c) *Serves channel formation function,*
 - d) *Meets aesthetics and water quality objectives;*
 - e) *Is resilient to climate change.*

Process to Quantify Guiding Principle #1

- *IFC met on July 17th*
- *IWG Steering Committee reviewed IFC recommendations on July 28th*
- *IFC met on August 27th*
- *IWG met on September 4th*
- *Core IWG/IFC group met on September 12th*
- *Recommendations presented to IWG September 16th*

Factors Considered

- *Biological benefit*
- *Reach habitat flow curves*
- *Water availability*
 - *50% Exceedance Flows Above Reach 4 / Structure 2*
 - *Approximately 50 cfs*
 - *90% Exceedance Flows Above Reach 4 / Structure 2*
 - *Approximately 10 cfs*
- *Rob Richardson Geomorphology Report*
- *Incremental options*
- *Achievability*

Reach 4 Flow Recommendation

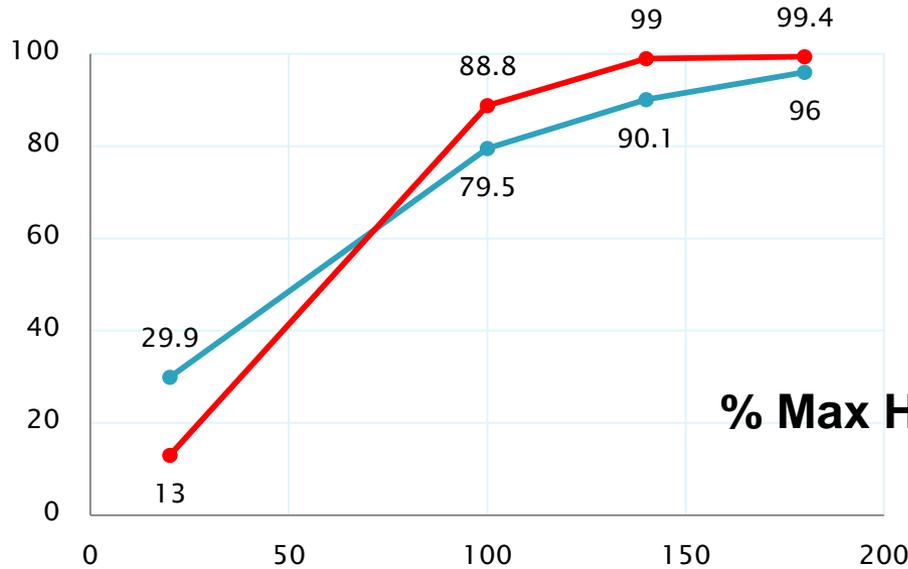
? - Maximum habitat

steelhead spawning flows are way below actual Q in historic channel.

Idea: Supplement hatchery channel flows during the spring with excess Q? Just don't go below 250 cfs.

Month	Gage Q	+ Snow Cr	(-) W/D	Focal Species & Life Stage WUA	Reach Q	Flow Rule (cfs)	Q Deficit	Recommended Flow
April	661	24	127	Steelhead Rearing 250 cfs	558		No	?
May	1,690	56	152		1,594		No	
June	1,890	30	155		1,765		No	
July	874	44	170	Fluvial Bull Trout Passage; 1.0-ft depth requirement 180 cfs	748		No	250 cfs
Aug	264	37	170		131	400	(-) 119 cfs	
Sept	161	43	141		63	275	(-) 187 cfs	
Oct	235	33	59		209	267	(-) 41cfs	

% Max Habitat



Red = SH spawning
Blue = SH rearing

% Max Habitat vs Flow

CFS

IFC Recommendations

- IFC recommends maintain current peak flows not exceeding 2,600 cfs, and essential functions in the historic channel during high flows.
- IFC recommends exploring opportunities for additional habitat during high flow events and refugia during low flow events in Icicle Creek.

IFC Recommendations

- Drought Years (90% Exceedance Flows): Under no conditions would there be less than 60 cfs in the historic channel (Reach 4) during low flow periods (summer/fall).
- Non-Drought Years: Under no conditions would there be less than 100 cfs in the historic channel (Reach 4).

