

## The IMW will answer the

### following questions:

- Did habitat restoration improve freshwater productivity at the watershed scale?
- What was the impact of the varying restoration types? (This question directly supports the UCSR's Adaptive Management Framework).
- What were the mechanisms by which physical habitat changes improved freshwater productivity?
- Can we transfer the knowledge to other locations? i.e., were actions deployed within an experimental design that enables statistically valid inference beyond the local scale? (This question also supports the UCSR's Adaptive Management Framework).

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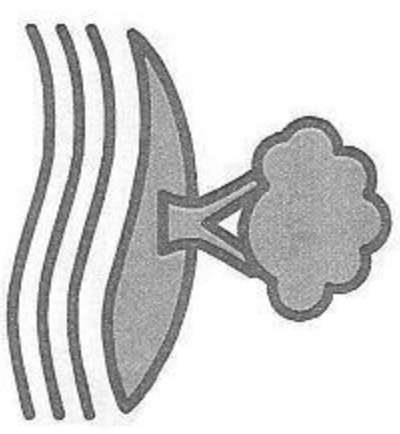
## Restoration and Monitoring on the Entiat River

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An Intensely Monitored  
Watershed Approach (IMW)  
and Integrated Status and  
Effectiveness Monitoring  
Program (ISEMP)



# Restoration and Monitoring on the Entiat River

## The Problem:

### We're running out of time

- If current trends continue Pacific salmon and steelhead populations in the Upper Columbia River have a 55-100 percent probability of extinction in the next 100 years.
- We are spending millions of dollars each year to reverse this trend, but populations are far from recovery levels.
- There is no clear understanding of restoration fish response to habitat restoration

- **A Solution:**

### Intensively Monitored Watershed

The Entiat IMW prescribes a deliberate schedule of habitat action implementation designed to enhance the ability of the monitoring program Restoration actions must:

- Aim to restore natural ecosystem processes,
- Be of sufficient size to cause a population response, and
- Be designed and implemented in an experimental fashion that will allow for detailed effectiveness monitoring.

## Our Strategy:

### Restoration followed by monitoring

- The Entiat IMW will follow a stair step approach to researching, designing, constructing (implementing), and monitoring habitat restoration actions.
- Actions will be implemented on a 3-year implementation time frame, starting in the Preston Reach area in 2011, then downstream the lower Entiat in 2014, upstream in 2017, and finishing in downstream in 2020.
- After each implementation year,

