

Tribal Perspective on the use of Hatcheries for Recovery Purposes

Presentation by the Columbia River Treaty Tribes
to the

Pacific Fishery Management Council

March 10, 2016

The Columbia River Tribes Views:

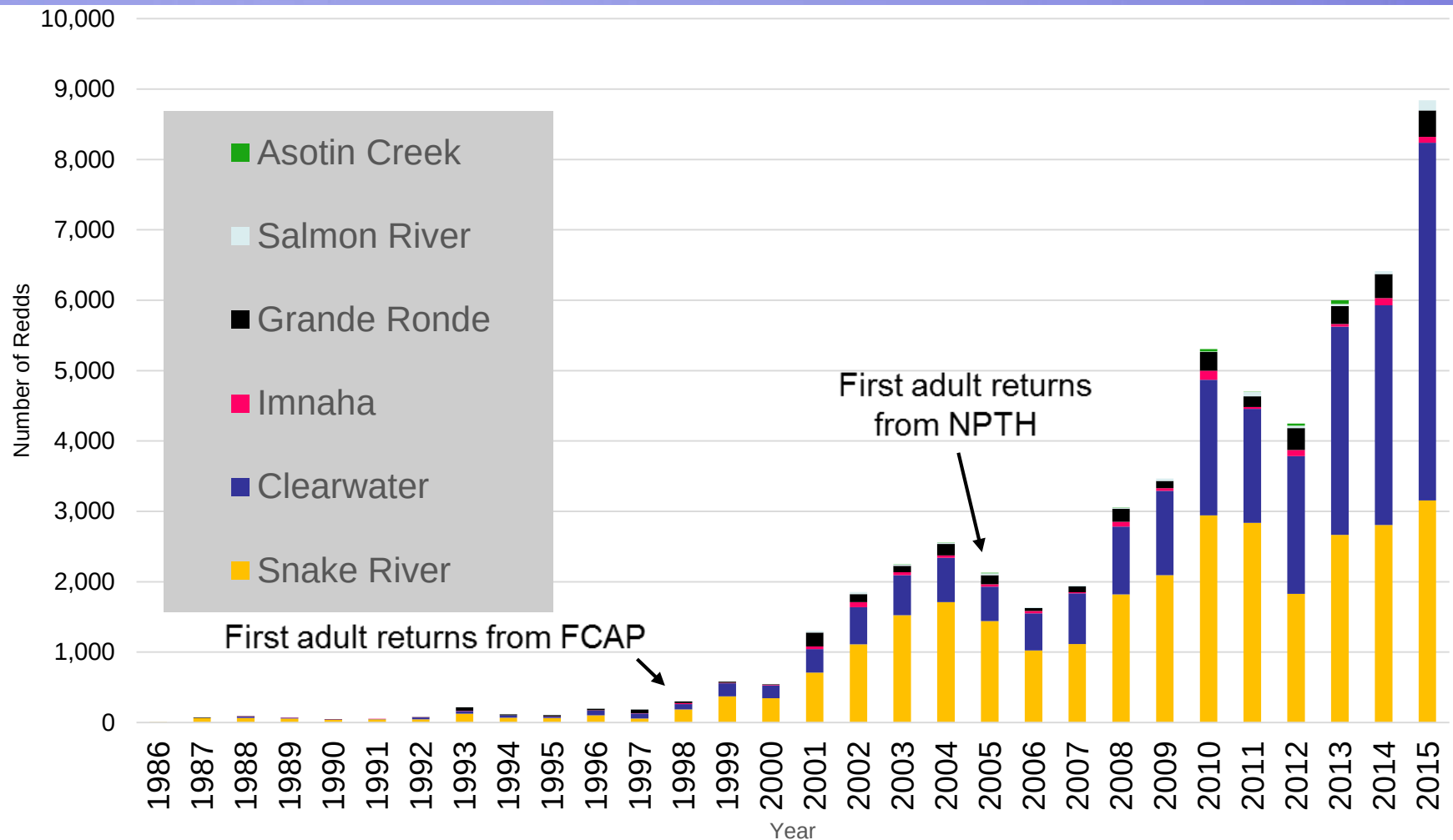
- Hatcheries are an important tool to meet mitigation responsibilities for dam construction and lost or degraded habitat
- Carefully managed hatcheries also serve as an important recovery and reintroduction tool
- Some programs can do both

Tribal Recovery/Re-introduction Programs

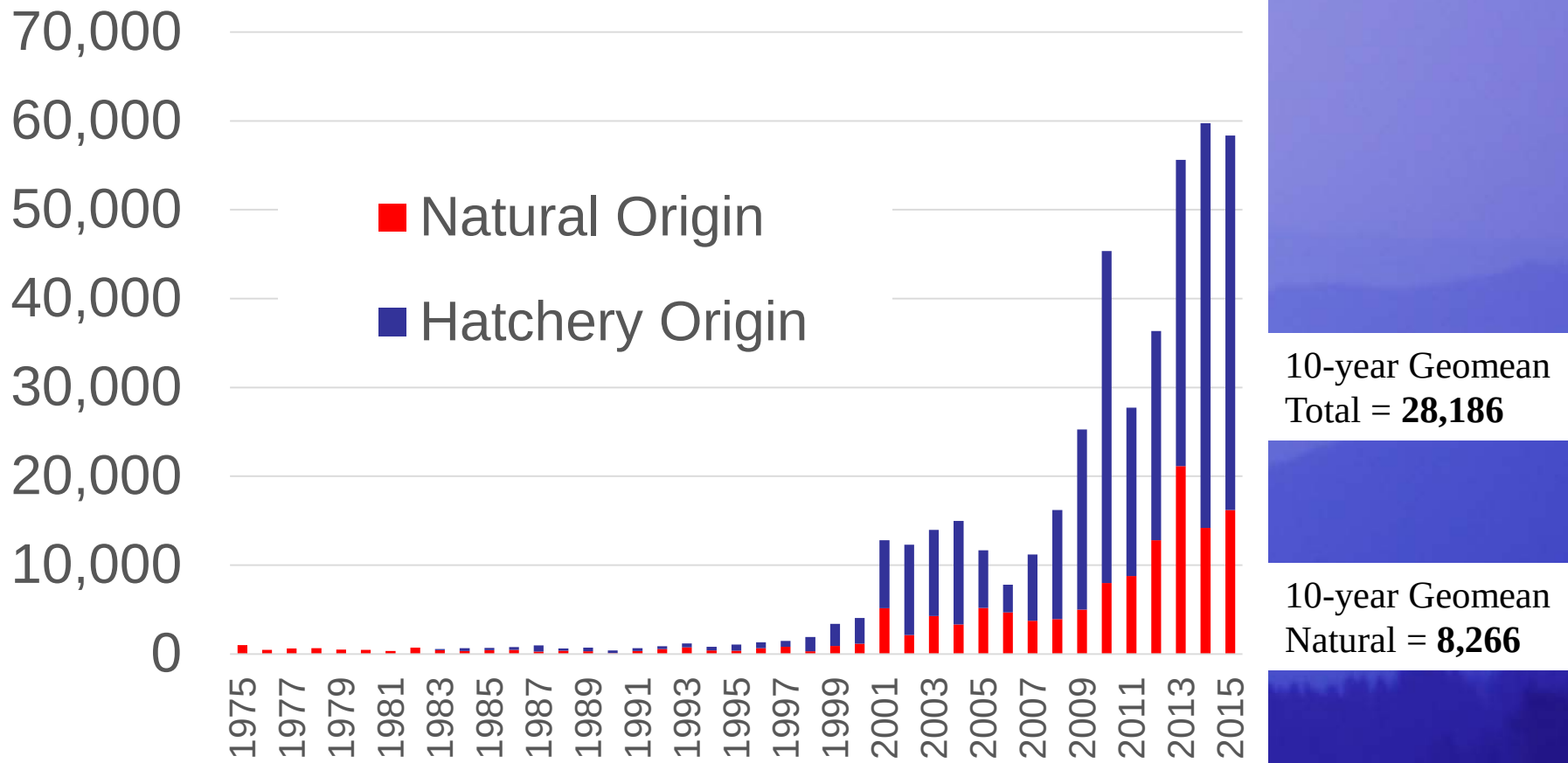
(in cooperation with co-managers)

- Several programs benefiting stocks of concern to Council fisheries:
 - Snake River fall chinook
 - Yakima, Umatilla, and Klickitat River fall chinook
 - Coho programs in the Clearwater, Methow, Wenatchee, Yakima, and Umatilla Rivers
 - The tribes have programs for other species and stocks as well.

Fall Chinook Salmon Redd Counts Upstream of Lower Granite Dam



Adult Fall Chinook Escapement to Lower Granite Dam

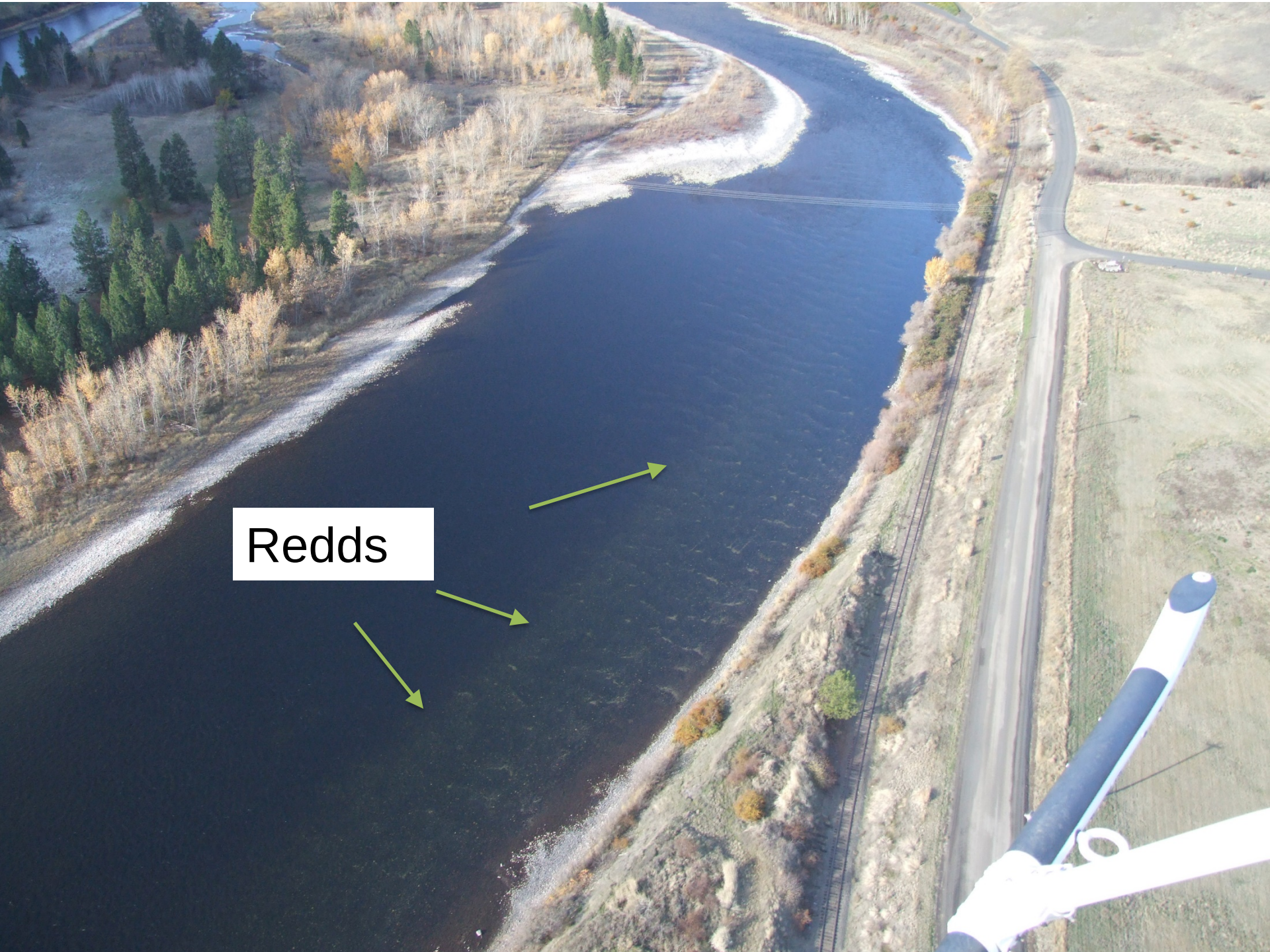


Fall Chinook Redds in the Clearwater River



The lighter areas in the above photo
are dozens of redds

Redds



More Redds



Upper Columbia Coho

- Coho extirpated in the Snake Basin and nearly disappeared from all other areas upstream of The Dalles Dam
- The tribes initiated re-introduction programs using various lower river stocks
- Transition to local broodstocks is underway
- Natural spawning and natural origin returns in many areas

Coho Reintroduction in the Wenatchee and Methow Rivers



- Vision:

To establish naturally spawning coho population in mid-Columbia tributaries to biologically sustainable levels which provide significant harvest in most years.

- Phased approach

- Broodstock Development Phases
- Natural production phases

- Current Status

- Currently permitting new acclimation sites to move forward with the Natural Production Phases



Coho Reintroduction

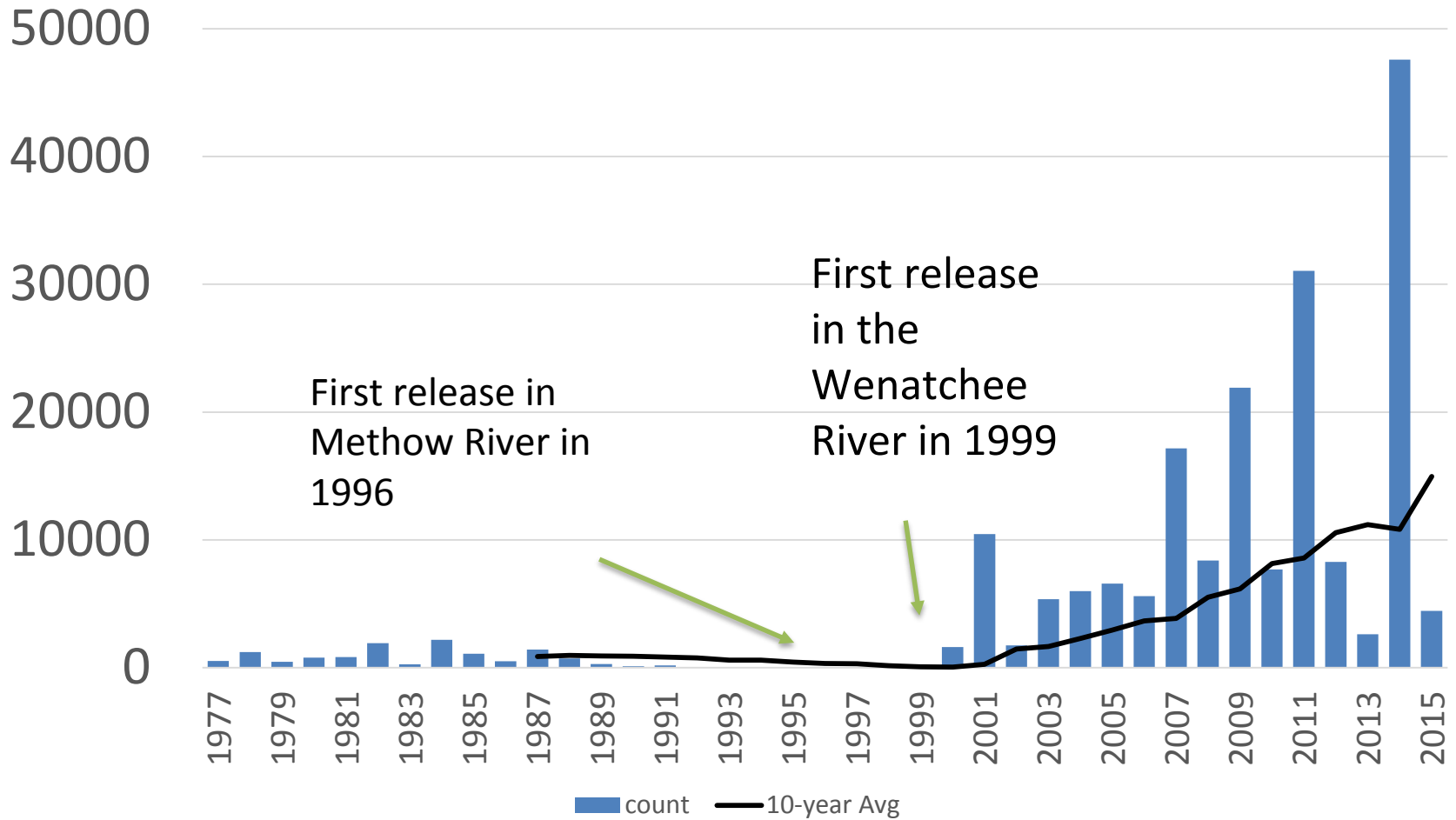
Wenatchee and Methow Rivers



- Began with 'reprogrammed' coho releases from the lower Columbia
- Innovative use of natural ponds for local acclimation
- Quickly transitioned to local broodstock
- Increasing return rates and natural production



Coho Counts at Rock Island Dam



Summary

- Hatchery fish are aiding in recovery of Columbia River salmon
- Carefully managed programs can minimize any effects on natural origin fish
- Harvest benefits can occur along with recovery.