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# Steelhead and Salmon Trends – Kittitas County and Beyond

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Columbia Basin Branch

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# Our Mission

- Productive and sustainable fisheries
- Safe seafood
- Recovery and conservation of protected resources
- Healthy Ecosystems



# Columbia Basin Branch

- Focused on salmon and steelhead habitat in Central and Eastern OR and WA
- Yakima Basin work includes:
  - Water Management
  - Habitat
  - Technical Assistance
  - Regulatory

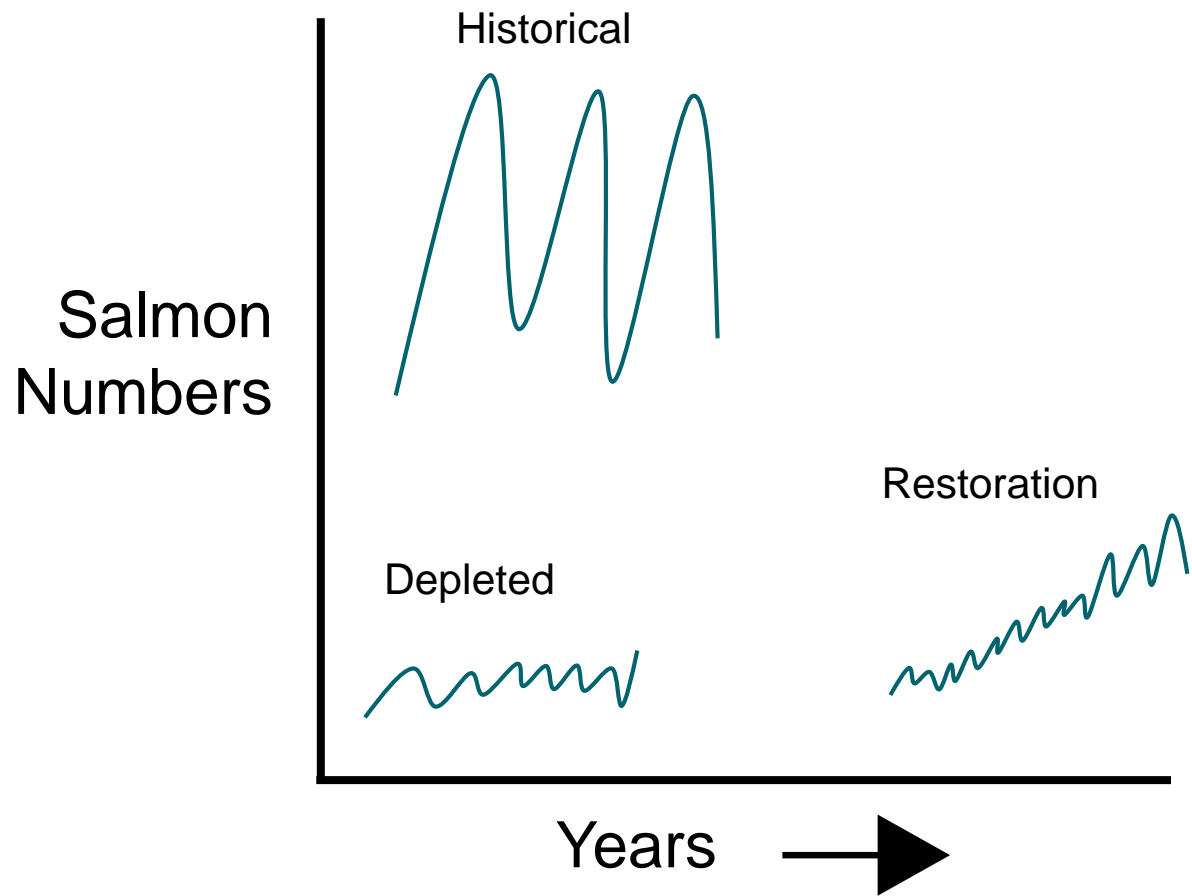


# Natural Variability

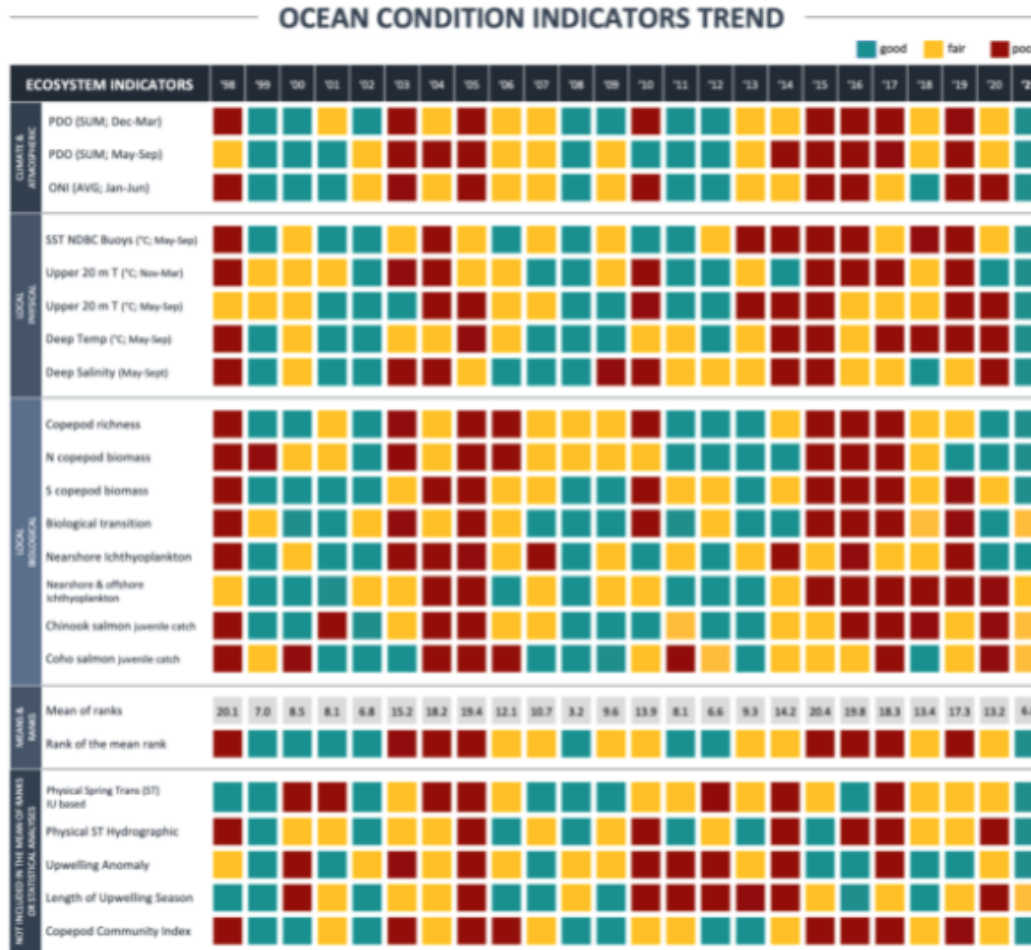
- Ups and downs due to variability in temperature, flows, ocean conditions, etc.
- Temperature is a key variable at many scales from creek to river to ocean
- Look at long term trends



# Salmon Ups and Downs



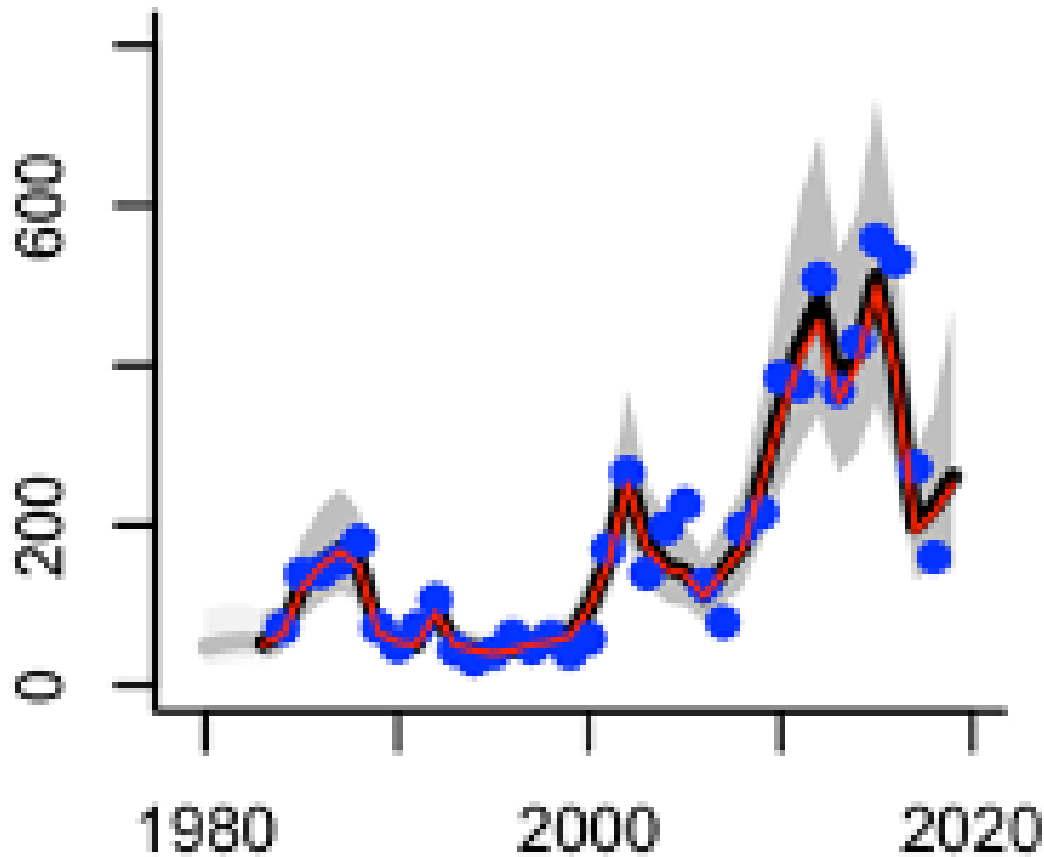
# Ocean Conditions



# NWFSC Viability Assessment

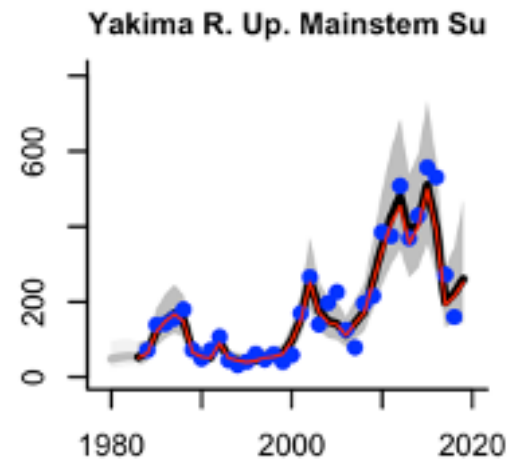
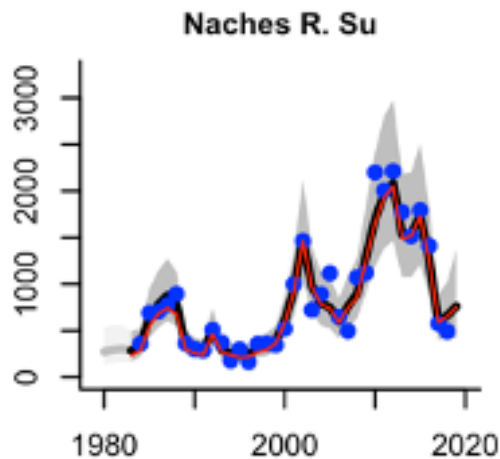
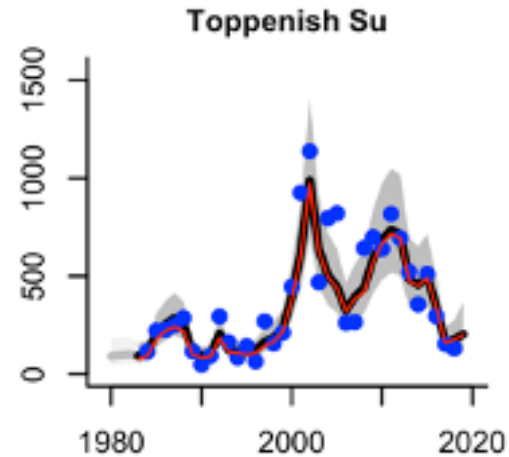
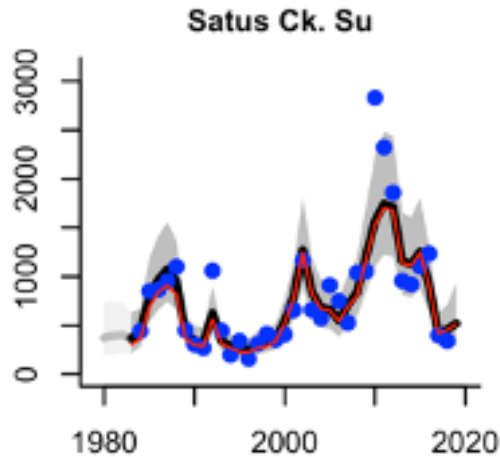
## Steelhead (Middle Columbia River DPS)

### Yakima R. Up. Mainstem Su



# NWFSC Viability Assessment

## Steelhead (Middle Columbia River DPS)



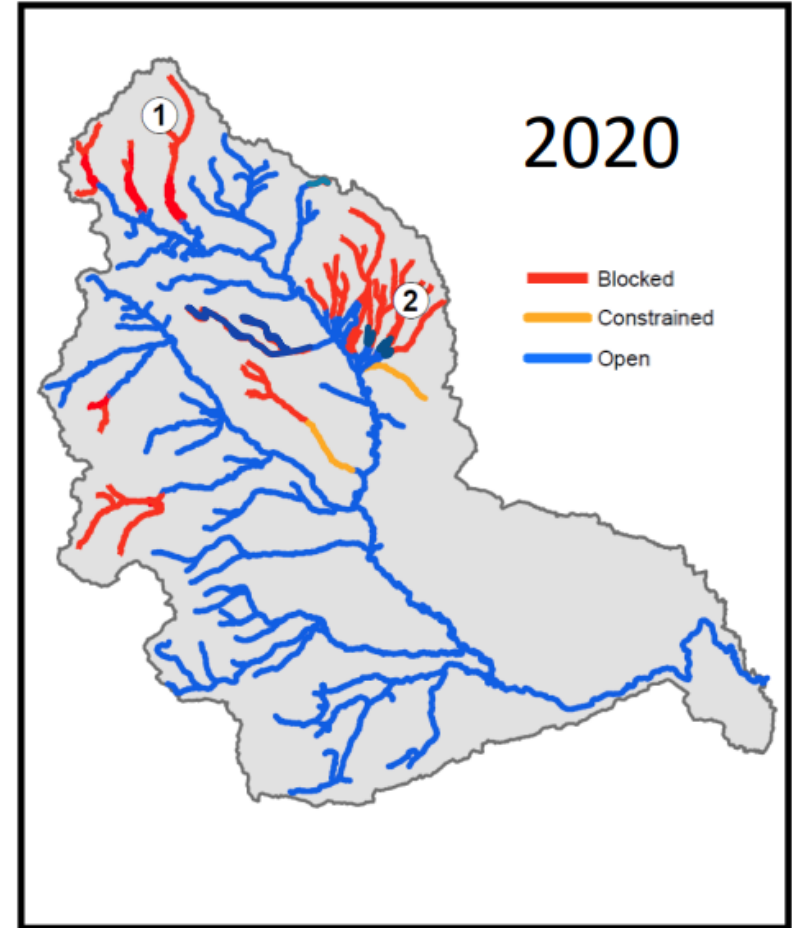
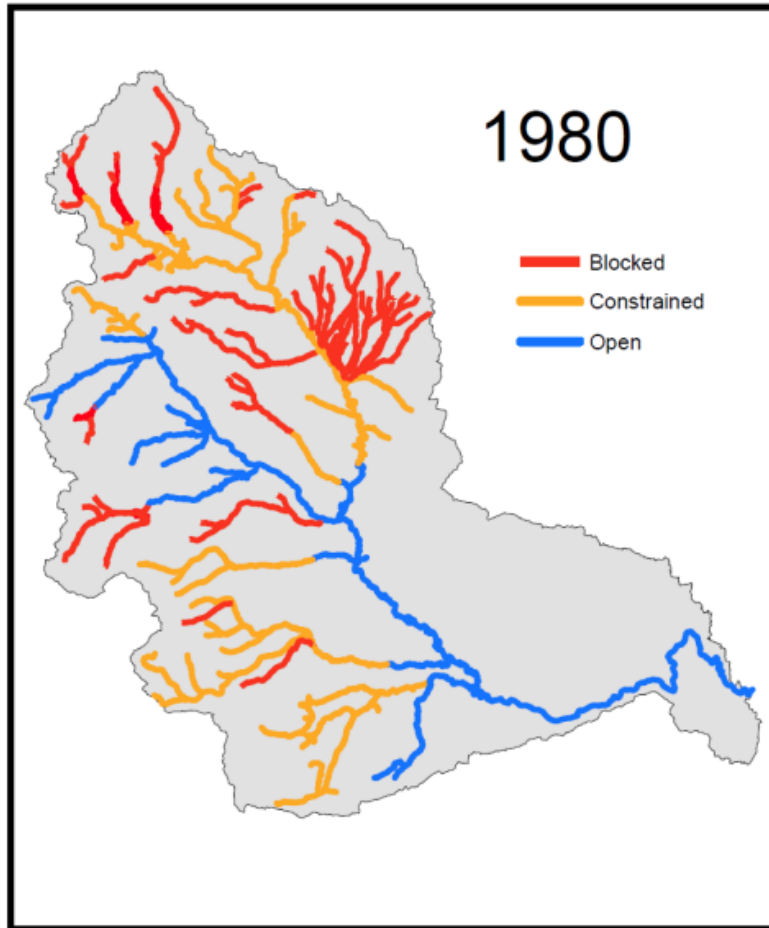


# NWFSC Viability Assessment

5-year geometric mean of raw natural spawner counts in the Yakima River MPG

Population	1990–94	1995–99	2000–04	2005–09	2010–14	2015–19	% Change
Satus Creek	339	266	641	806	1,575	650	-59
Toppenish Creek	102	135	695	467	570	232	-59
Naches River	281	260	854	823	1,879	913	-51
Yakima River Upper Mainstem	54	49	145	155	389	329	-15

# Fish Passage and Screening



# Middle Columbia River Steelhead

-Out of 17 populations, 4 are at the highest risk level.

-Upper Yakima population is at highest risk level.

-Yakima Basin is catching up to other basins

-Bottom line: progress, but still a ways to go.

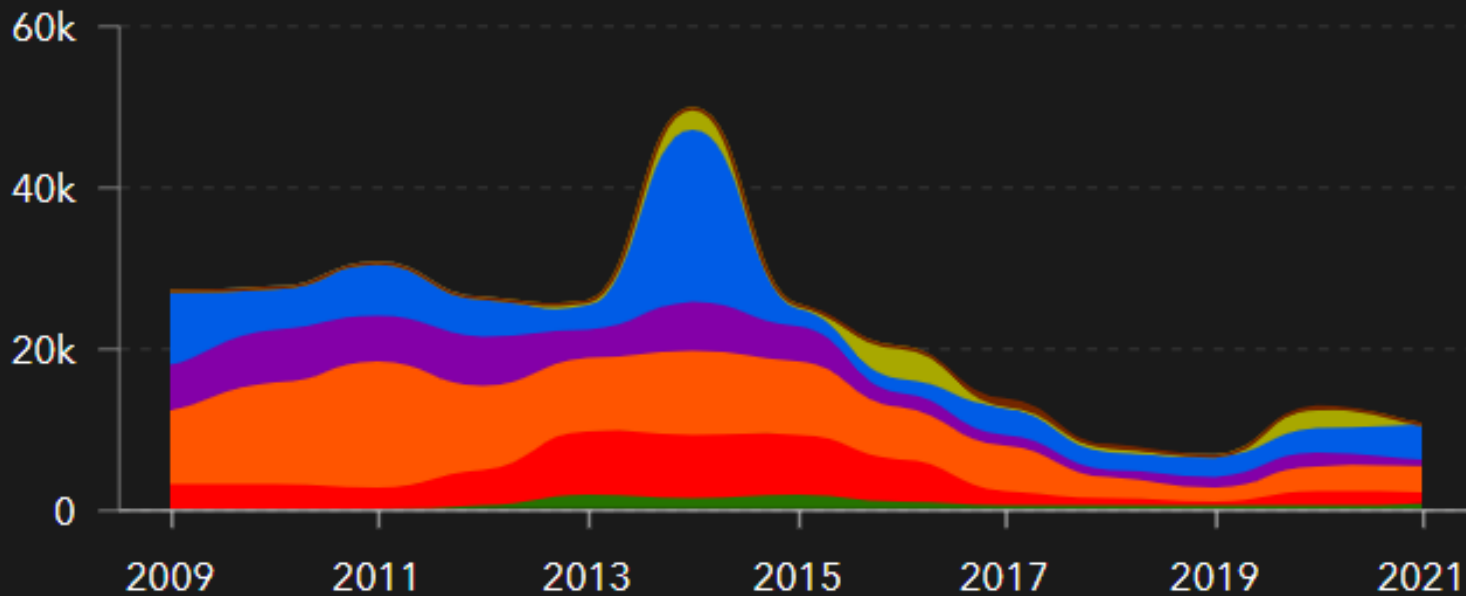


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# Fish Passage Counts

## Prosser Dam

### Returns by Year



Source: Yakama Nations Fisheries

SPECIES

Summer  
Chinook

Spring  
Chinook

Fall  
Chinook

Steelhead

Coho

Sockeye



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	Major Progress	Lots of Work Needed
Columbia/Ocean	Dam passage Flows Predation Reduced Harvest	Estuary Habitat Temperature Predation
Yakima River	Passage Flow	Passage Flow Temperature Predation?

# Kittitas County



Major Progress	Lots of Work Needed
Passage  Flows  Sediment	Passage  Flows  Sediment  Temperature (shade)  Floodplain Restoration



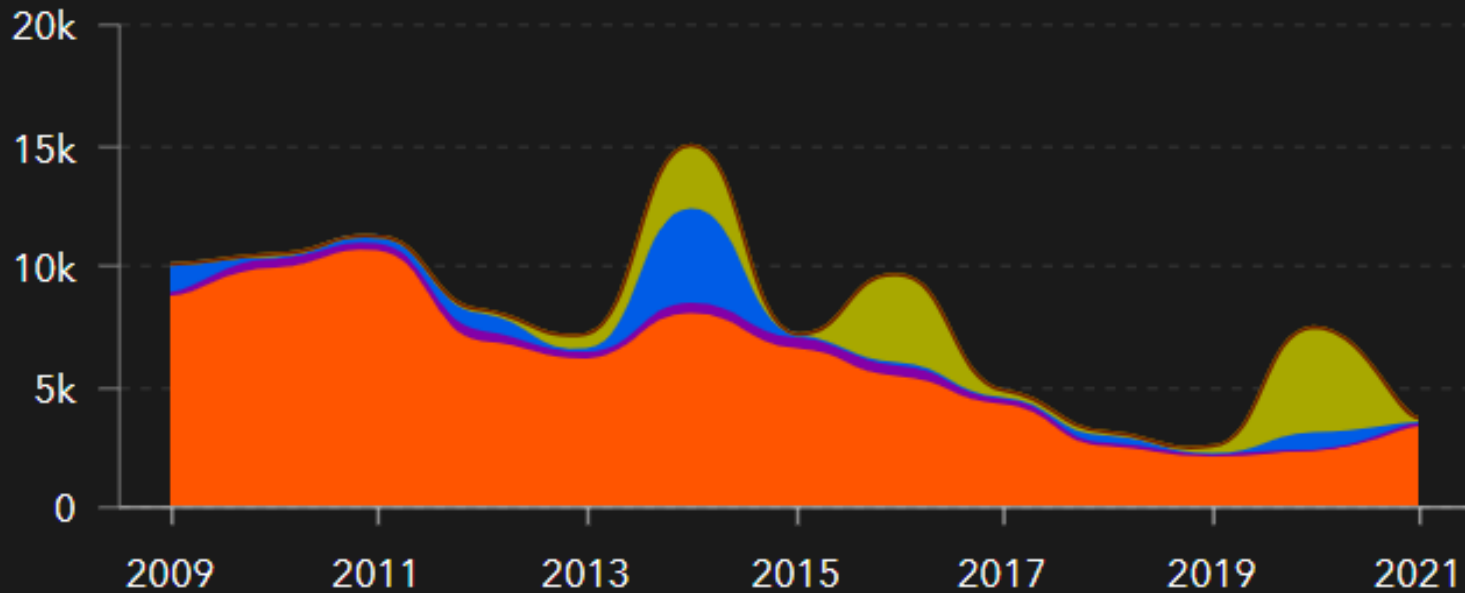
# Questions?



# Fish Passage Counts

## Roza Dam

### Returns by Year



Source: Yakama Nations Fisheries

SPECIES

Summer Chinook

Spring Chinook

Fall Chinook

Steelhead

Coho

Sockeye



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