

Updates

- Steelhead
- > Fishery
- Spring and Fall Chinook
- Coho

- Redband Trout
 Density Estimates
- Smallmouth Bass Monitoring



Steelhead, Coho, and Fall Chinook Sites/Methods

- Mark-Recapture
- Sherars Falls
- Trap Counts
 - Warm Springs National Fish
 Hatchery (WSNFH)
 - Pelton Trap
- Carcass surveys, tag returns



Steelhead Run Estimates

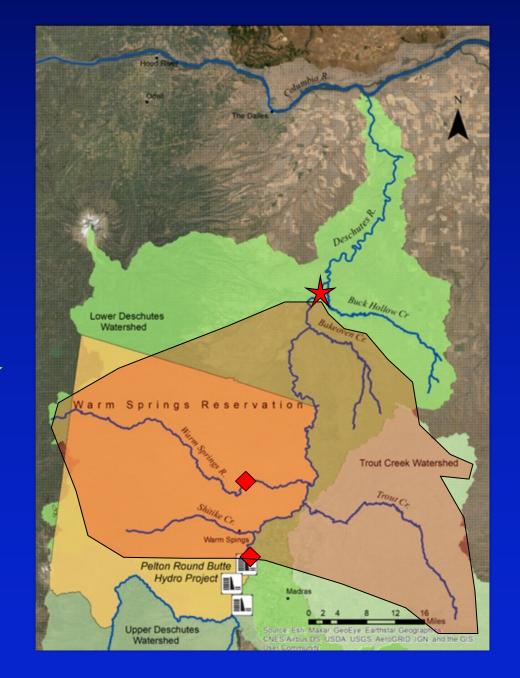
Mark-Recapture

- Sherars Trap
- Pelton Trap

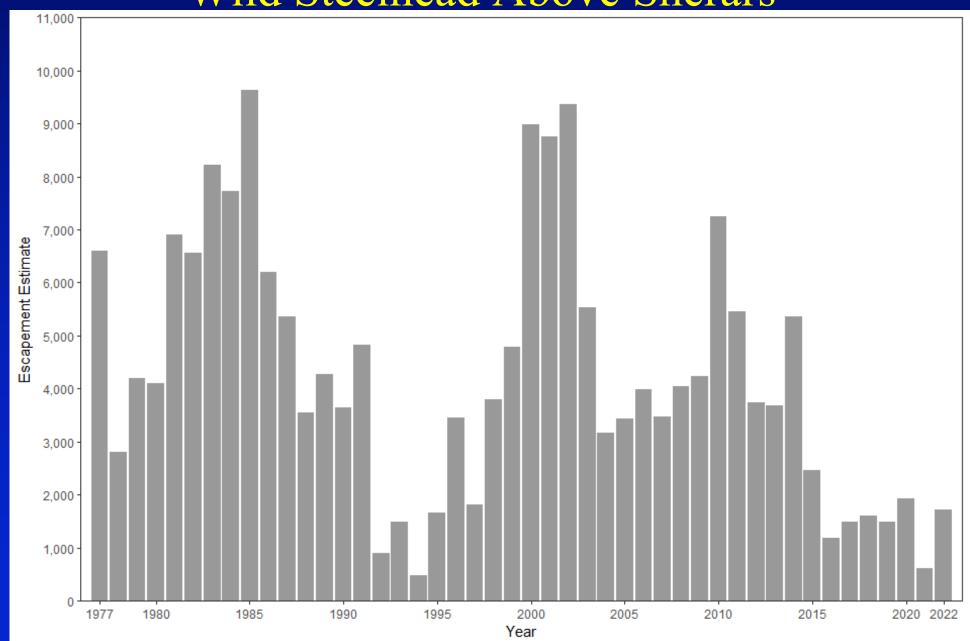
OREGON

- Warm Springs National Fish Hatchery
- Out-of-basin Tag Returns and PIT tag detections

Run estimates for Above Sherars Falls

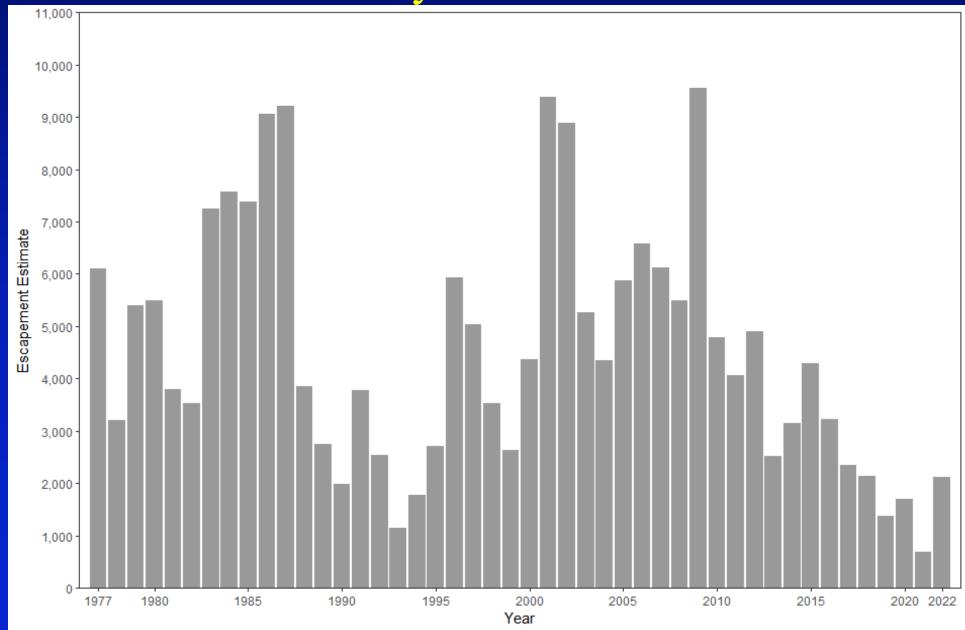


Wild Steelhead Above Sherars



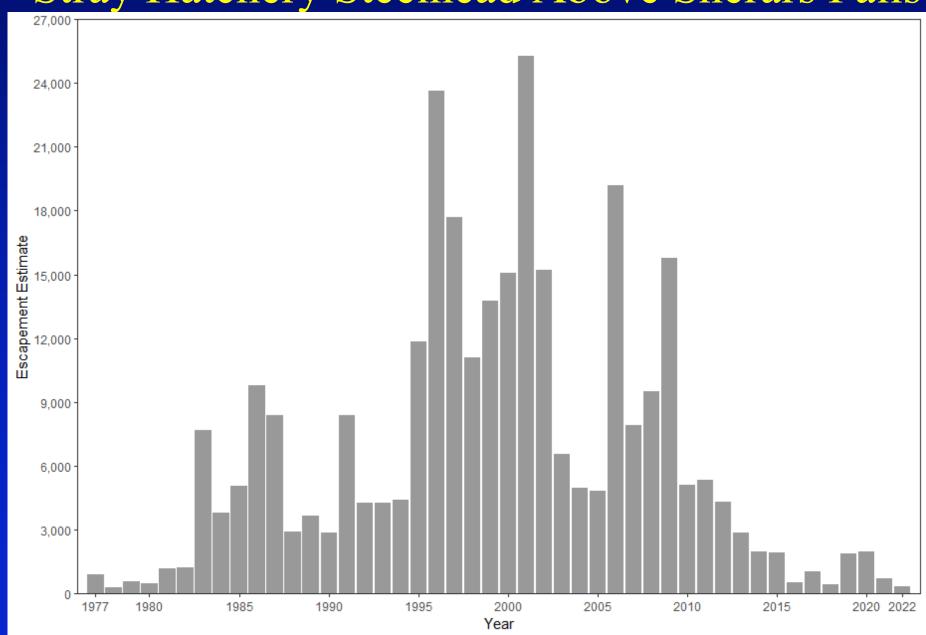


Round Butte Hatchery Steelhead Above Sherars Falls





Stray Hatchery Steelhead Above Sherars Falls





Coho Run Estimates

Mark-Recapture

- Sherars Trap
- Pelton Trap
- Warm Springs National Fish Hatchery



Run estimates for Above Sherars Falls



Coho Above Sherars Falls

Run Year	Wild Escapement Estimate (Adults + Jacks)	95% CI	
2019	1,541	±263	
2020	3,381	±812	
2021	2,352	±474	
2022	2,392	±298	

Fall Chinook Run Estimates

Mark-Recapture

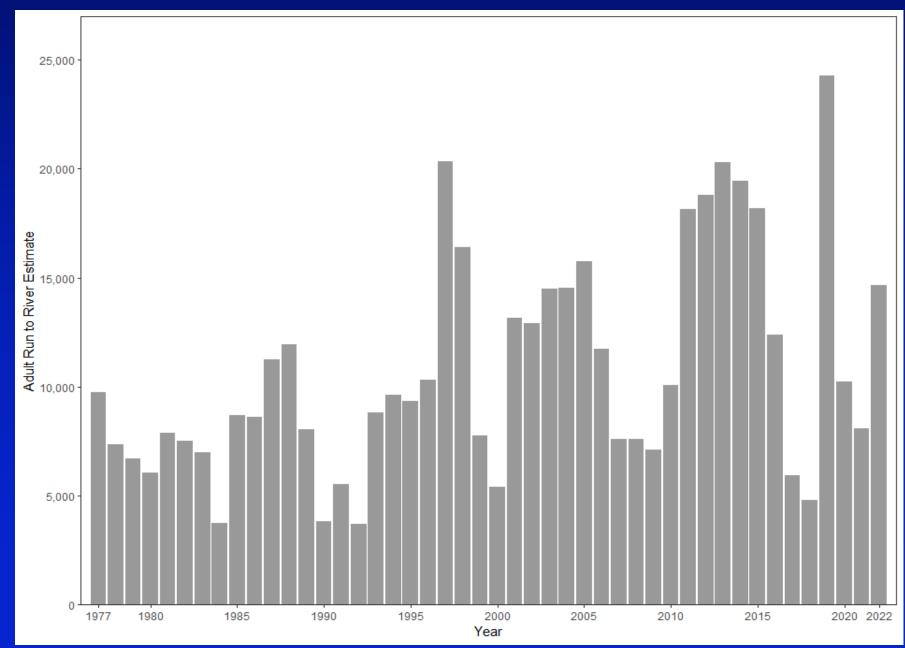
- Sherars Trap
- Pelton Trap
- WSNFH
- Carcass surveys
- Creel surveys
- Redd Flights
- Scale Reads





All River Run Reconstruction

Wild Fall Chinook All River Run Reconstruction Estimates





Spring Chinook Run Estimates

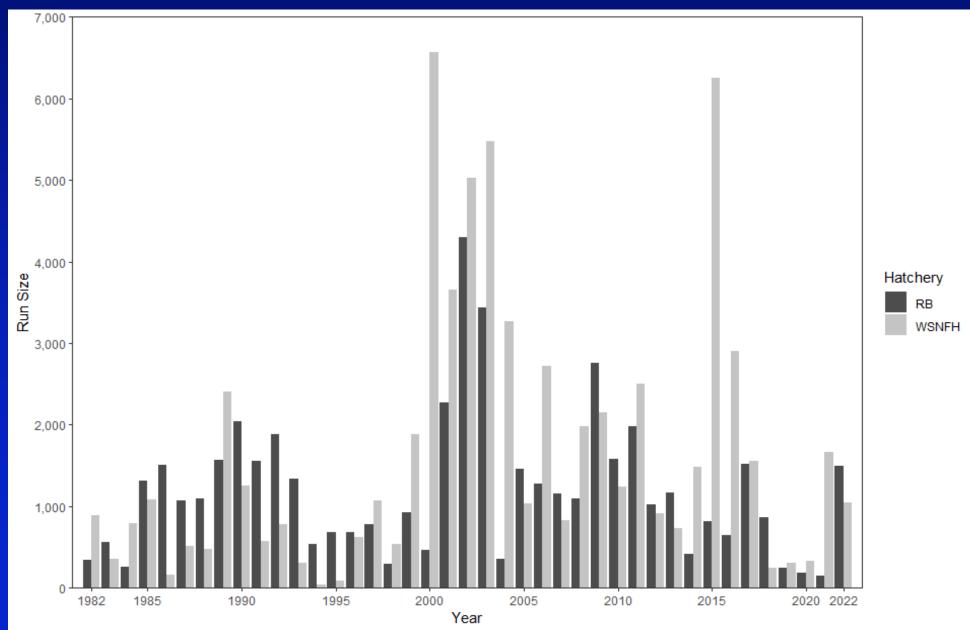
Not associated with Sherars Trap

 Wild Run Size Enumerated at Warm Springs National Fish Hatchery

 Hatchery Production at Round Butte Hatchery (ODFW) and Warm Springs National Fish Hatchery (USFWS)

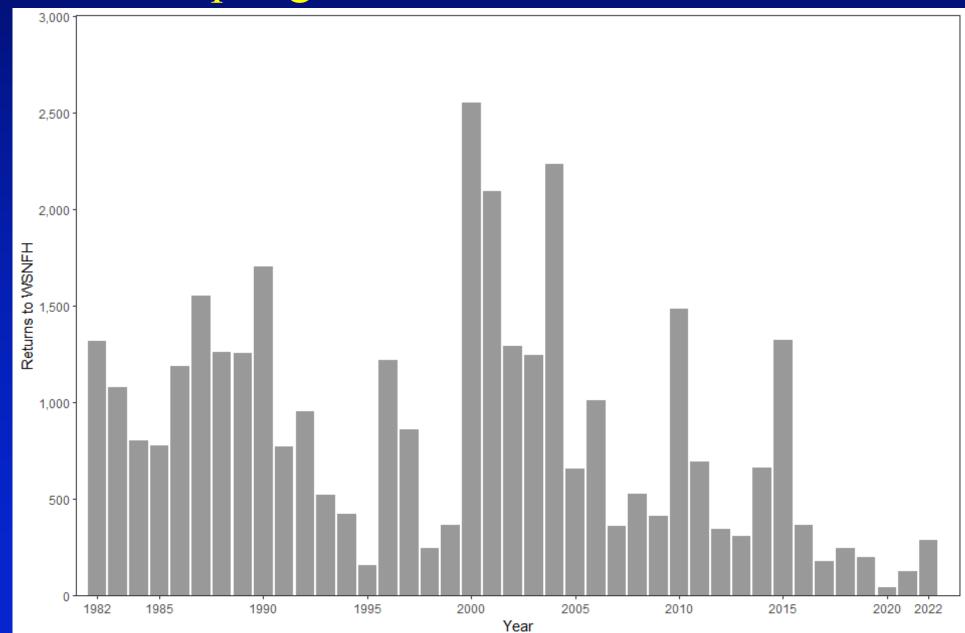


Adult Hatchery Spring Chinook Returns





Wild Spring Chinook Returns to WSNFH

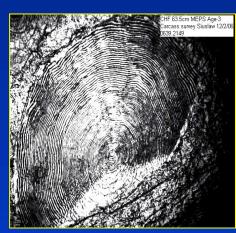




Deschutes Trout Monitoring

Previously Reported:

- Growth
- Age structure
- Food consumption
- Condition
- Disease









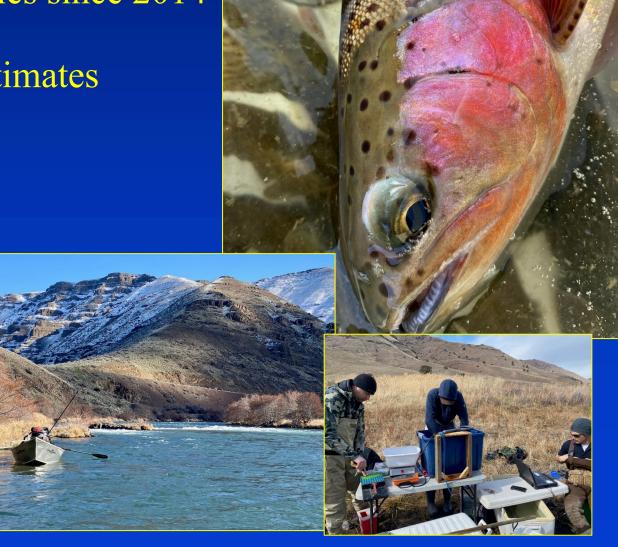


Deschutes Trout Monitoring

2019 to 2023: Continued previous studies since 2014

- Conducted Population & Growth Estimates
 - Nena Creek 2019, 2020
 - North Junction and JonesCanyon 2021, 2022
- Growth Estimates
 - Trout Creek 2020
 - North Junction 2023





Mark-Recapture Methods

• Methods and Sections same as Historical (Schroeder and Smith 1989, Newton and Nelson 2000, Jones and Seals 2019)

Multiple pass electrofishing

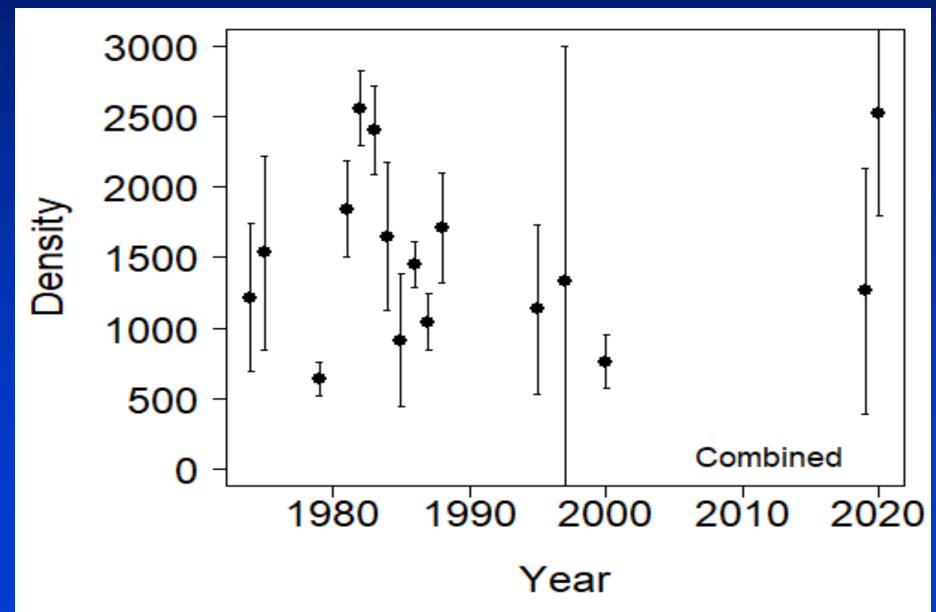
Closed Population Models





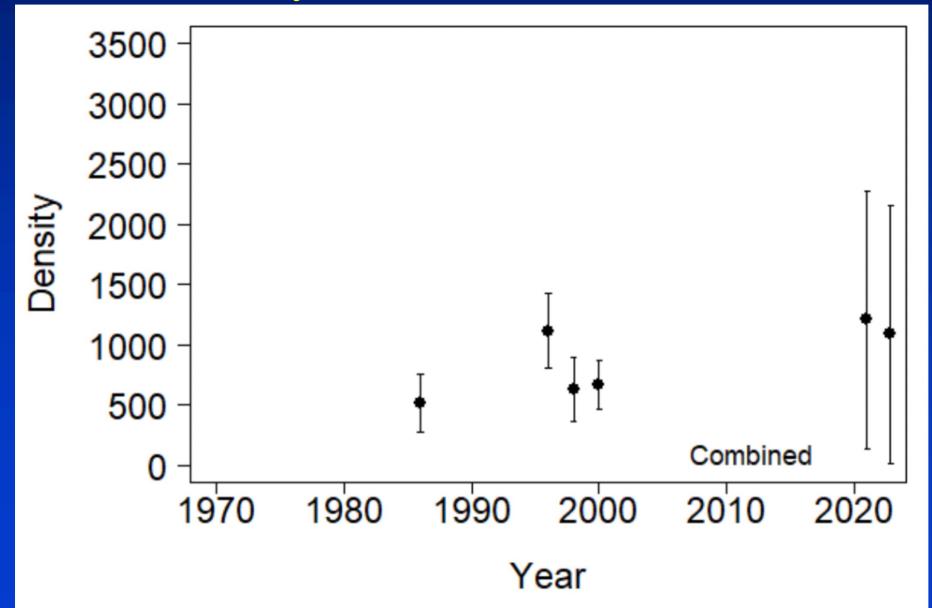


Nena Creek Section Fish Per Mile



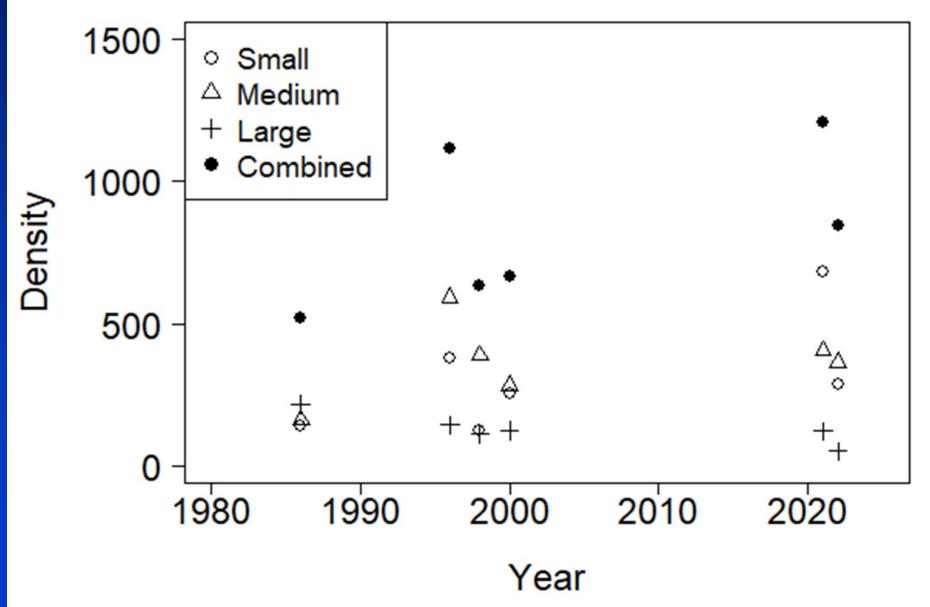


Jones Canyon Section Fish Per Mile



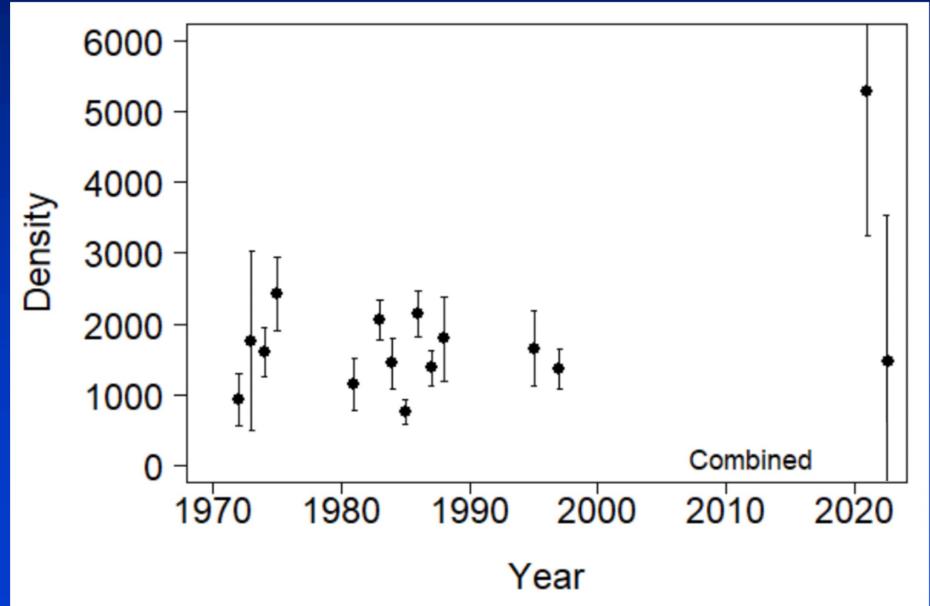


Jones Canyon Section Fish Per Mile



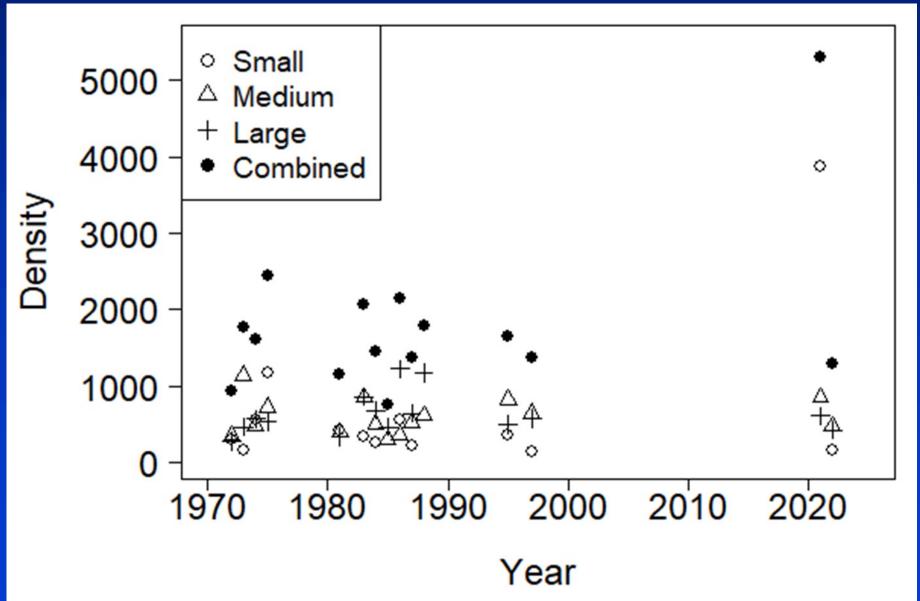


North Junction Section Fish Per Mile





North Junction Section Fish Per Mile





Michelle Jones

Smallmouth Bass







Bass Background

• Before 2010 - Bass Regularly Reported

• 2010-2022 Snorkel and electrofishing surveys

• 2010-2015 surveys captured no bass

Anglers report increasing smallmouth catch in 2016 and 2017

• Electrofishing Surveys confirmed increase



Findings

• Distributed from Ferry Canyon (RM 26) to Mouth

• PIT tagged individual displaying long migration patterns

• Leaving the Deschutes in September

• Re-entering the Deschutes April-June

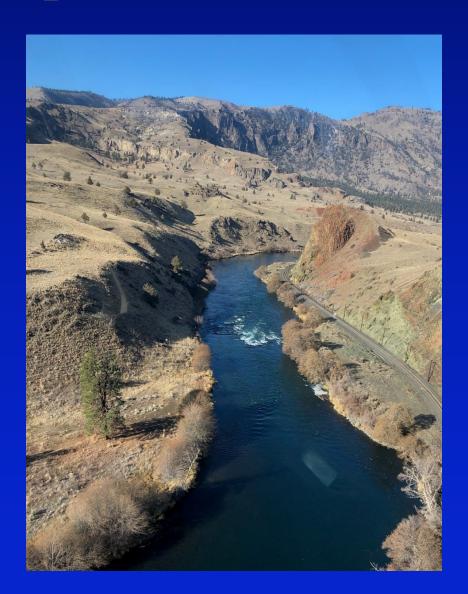
No evidence of Natural Reproduction



Status Summary – All Species

- Steelhead Returns are Low
- Coho Returns are Increasing
- Wild spring Chinook Returns are Critical
- Fall Chinook Returns are Robust
- Redband Trout Densities are Good
- Smallmouth Bass continue to Seasonally Occupy the lower 12 miles





Status Summary – Steelhead Fishery

Steelhead angling and retention currently open under permanent rule

- Per Deschutes Steelhead Fishery Framework:
 - 9,900 Wild Steelhead Over Bonneville between July 1 July 31
 - 23,100 Wild Steelhead Over Bonneville between July 1 August 31
- Total forecast for Wild Steelhead over Bonneville:
 - -18,600

Summer Steelhead	Total Upriver Steelhead	99,700	123,871	67,800
(to Bonneville Dam)	Upriver Skamania Index (total)	3,100	6,902	4,400
	(wild)	1,600	2,979	2,100
	A-Index (total)	81,000	76,691	55,400
	(wild)	28,100	23,189	17,300
	B-Index (total)	15,600	40,278	8,000
	(wild)	1,900	6,737	1,300



