Conservation and Sustainable Fisheries Plan





Conservation and Sustainable Fisheries Goal

Support recovery of natural origin Lower Columbia salmon and steelhead to healthy and harvestable levels while sustaining important fisheries







Conservation and Sustainable Fisheries Goal

Identifies strategies, actions and management practices to for Lower Columbia hatcheries and related fisheries.





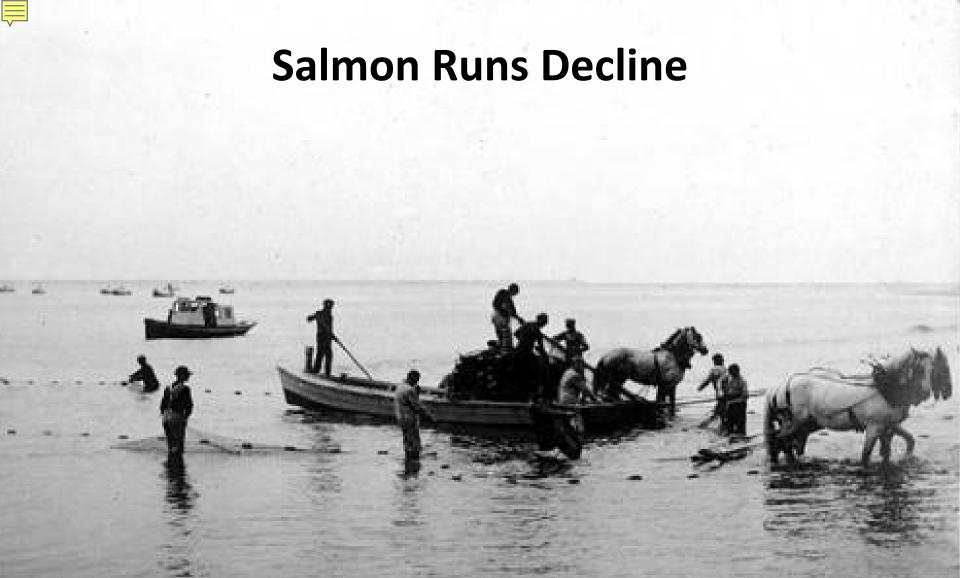


Conservation and Sustainable Fisheries Goal

Address fish needs within an All-H context:

- 1. Provide habitat of sufficient quality and quantity
- 2. Ensure sufficient numbers of natural origin fish spawn
- 3. Ensure natural spawning fish are adapted to effectively use available habitat





Seming gor-Salmen on the Common River. University of Washington, via NWPC Council



1938 Mitchell Act

"An Act to provide for the conservation of the fishery resources of the Columbia River, establishment, operation, and maintenance of one or more stations in Oregon, Washington, and Idaho, and for the conduct of necessary investigations, surveys, stream improvements, and stocking operations for these purposes."



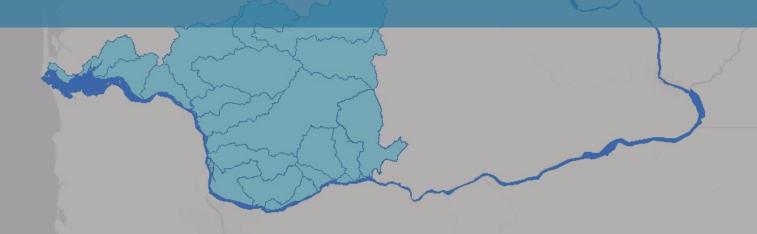






Progress Report

- 1. Update WDFW hatchery metric reporting methods
- 2. Complete a viability assessment
- 3. Report on hatchery and harvest reform progress
- 4. Identify adaptive management needs





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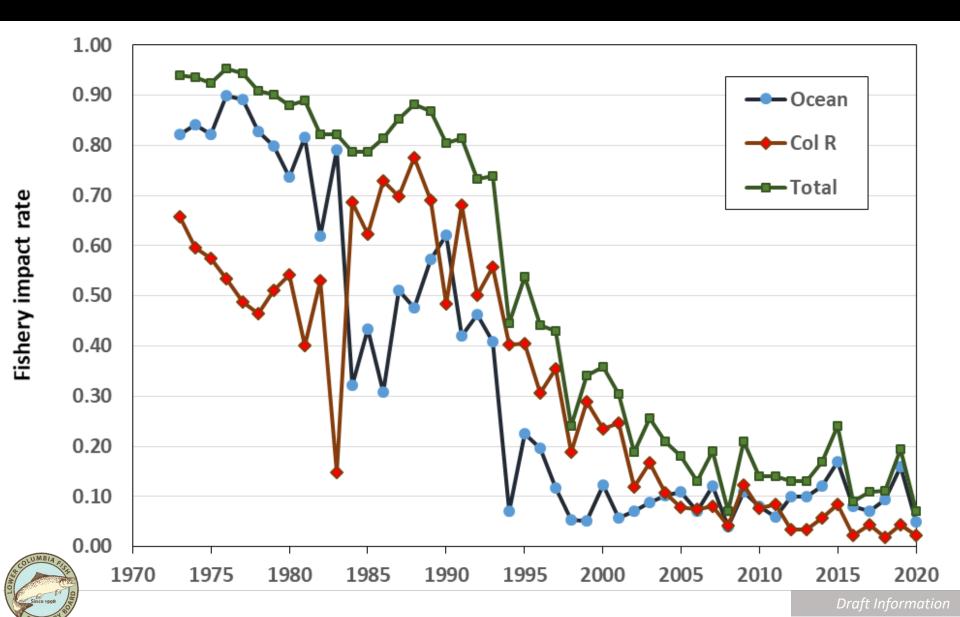
Progress Report - Viability

		Chinook			Chum		Steelhead		Cala
	_		L Fall	Spring	Fall	Sum	Winter	Sum	Coho
Coast	Grays/Chinook	VL	-		M/VH		M		VL
	Eloch./Skam.	VL		-	VL/L		M		VL
	Mill/Aber./Ger.	VL			VL		M		VL
Cascade	Lower Cowlitz	VL/M VL/L			VL	VL	L		VL/H
	Coweeman						L/M		VL/H
	SF Toutle	VL		VL	VL		M		VL/M
	NF Toutle			VL			VL/M		VL/L
	Upper Cowlitz	VL/L	-	VL			VL		VL
	Cispus		-	VL			VL		VL
	Tilton			VL			VL		VL/L
	Kalama	VL		VL	VL		L/H+	М	VL
	NF Lewis	VL/M	VH	VL	VL		VL	VL	VL/L
	EF Lewis						M	VL/M	VL/L
	Salmon	VL			VL		VL		VL/M
	Washougal	VL/L			VL/H		L	M/H	VL
Gorge	Lower Gorge	VL			Н		L		VL
	Upper Gorge	VL			VL		- L	Н	VL
	White Salmon	VL		VL					
No. @ Very High		0	1	0	1	0	0	0	0
No. @ High		0	0	0	2	0	1	2	2
No. @ Moderate		2	0	0	0	0	7	2	2
No. @ Low		3	0	0	1	0	4	0	4
No. @ Very Low		9	0	7	6	1	5	1	9
Average Viability		L-	VH	VL	L+	VL	L+	M	L



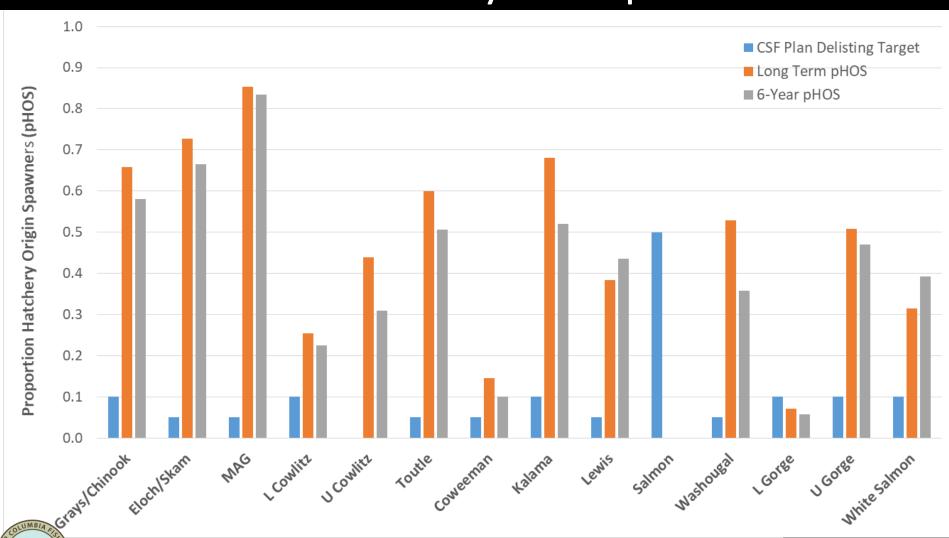


Progress Report – Coho Harvest

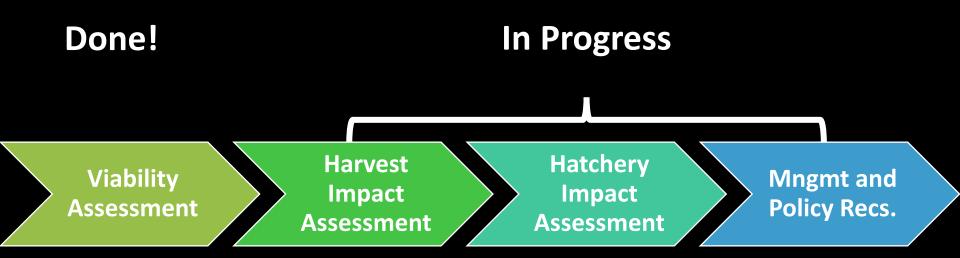


Progress Report –

Fall Chinook Hatchery Fish Competition



Progress Report - Next Steps



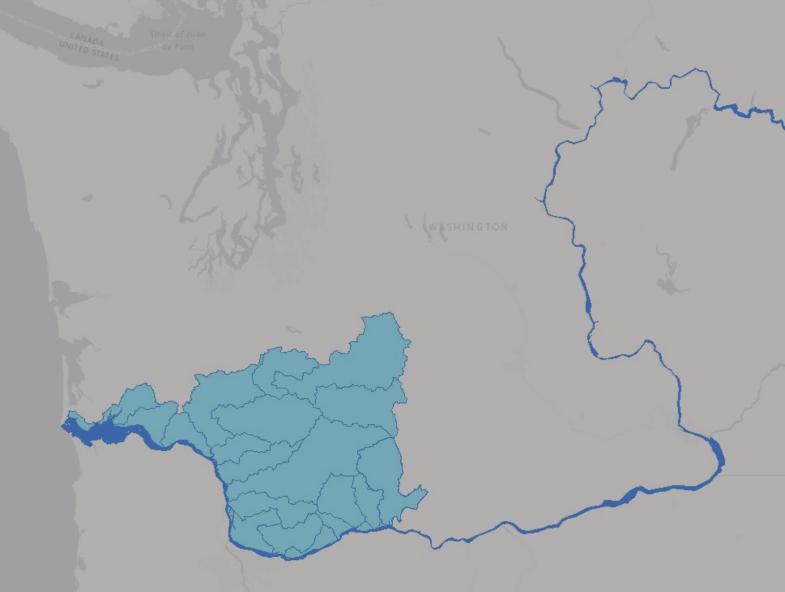
Publication in Fall 2022







Template Slide





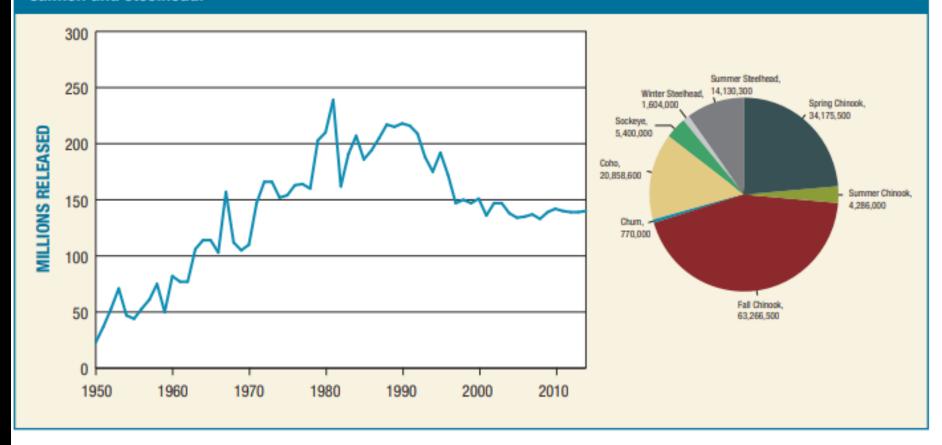


Adaptive Management Considerations

- 1. Work with WDFW and NOAA to prioritize hatchery production priorities.
- 2. Identify a long-term data sharing strategy with WDFW for harvest information.
- 3. Identify any updates to LCFRB policy perspectives regarding hatchery and harvest practices.

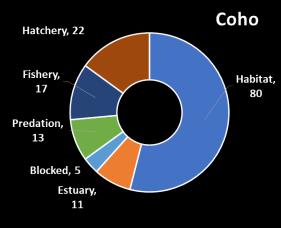


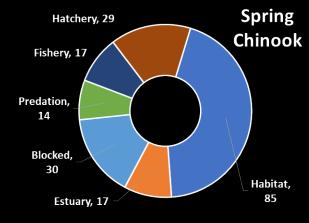
FIGURE 8. Hatchery juvenile production trends and current production by species of Columbia Basin salmon and steelhead.

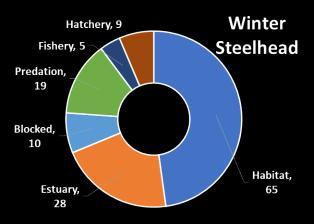


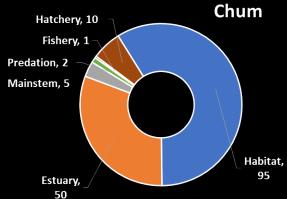


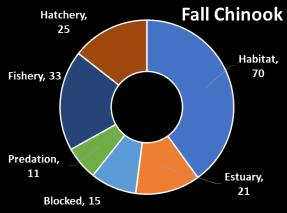
All-H Impacts Today

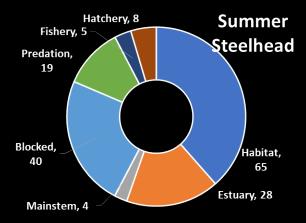






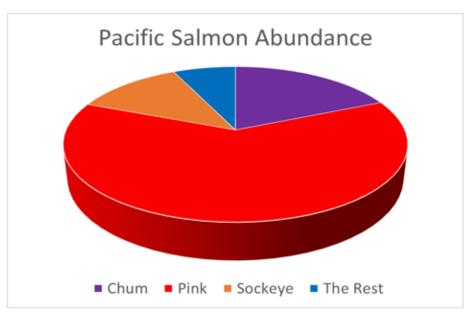








More salmon than ever!



Salmon numbers up

- True of both adult and juveniles
- True by abundance and biomass
- 2015 was 36% more than peak in 30s

93% Pinks, Chum & Sockeye

40% Hatchery Fish

<7% Chinook, Coho and Steelhead

What's up in the Pacific?

- Variable ocean conditions with increasing warming
- Increasing overall salmon abundance
- Strong pink/chum hatchery component
- 4) Possible density dependence impacting chinook and steelhead
- Increase in overall harvest (human and marine mammal)
- 6) All above leading to smaller adult sizes