Conservation and Consumption: Nez Perce Tribe Duty and Obligation



"Our fate and the fate of the fish are linked."

Dan Landeen and Allen Pinkham, Salmon and His People

Duty

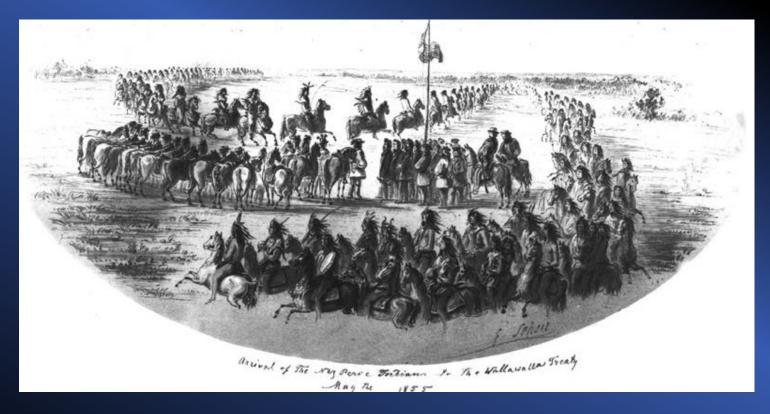
"Fish provide us with both physical and spiritual sustenance. Other cultures seem unable to recognize how those two concepts go hand in hand. Instead, they see them as separate, traditional beliefs on one side, science on the other. For Indian people those concepts have never been separate."



– Jamie Pinkham

Restoration and caring for fish is considered a tribal cultural ethic that has prehistoric ties.

Obligation



"...the right of taking fish at all usual and accustomed places, in common with the citizens of the Territory, and of erecting temporary buildings for curing them: together with the privilege of hunting, gathering roots and berries...."

Responsibility

Conservation

Consumption



Abundance



Productivity



Distribution



Diversity









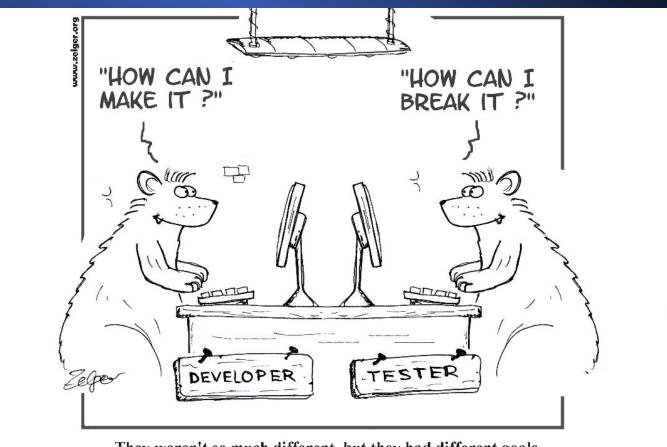
Traditional Gear





Reality #1

Different entities have different goals/priorities



They weren't so much different, but they had different goals

Divisive positions between pro-salmon entities confuses general public

http://simply-the-test.blogspot.com/2010/04/different-goals.html

Nez Perce Tribe Goals

- 1) Abundant and healthy salmon populations
- 2) Robust harvest opportunities throughout U&A area
- 3) Full ecosystem function





www.nptfisheries.org

Table 4. Designated stronghold populations, viable abundance thresholds, sustainable escapement objectives and ecological escapement objectives for populations of spring/summer Chinook in the Snake River Basin

Subbasin	Population	Designated Stronghold®	Viable Abundance Threshold	Sustainable Escapement Objective	Ecological Escapemen Objective
Lower Snake R.	Tucannon River	X	750	3,400	22,000
	Asotin River		500	2,000	10,000
Grande	Wenaha River	Х	750	1,800	13,000
Ronde River	Lostine/Wallowa River	X	1,000	4,800	36,000
	Minam River		750	1,900	14,000
	Catherine Creek		1,000	3,000	22,000
	Upper Grande Ronde River		1,000	4,100	31,000
	Lookingglass Creek		500	1,000	3,000
Imnaha R.	Imnaha River	Х	1,000	5,700	38,000
South Fork Salmon River	Little Salmon River	Х	750	5,100	14,000
	South Fork Salmon Mainstern	Х	2,000	8,600	24,000
	Secesh River	X	750	5,400	15,000
	East Fork Salmon/Johnson Creek	×	1,000	6,900	19,000
Middle Fork Salmon River	Chamberlain Creek		750	3,900	11,000
	Lower Mainstern Mid-Fork		500	2,100	6,000
	Big Creek	X	1,000	6,900	19,000
	Camas Creek		500	3,000	8,000
	Loon Creek		500	3,200	9,000
	Upper Mainstern Mid-Fork		750	6,100	17,000
	Sulphur Creek		500	1,400	4,000
	Bear Valley	Х	750	5,700	16,000
- The said		- 4	-	The second second	-

Reality #2

Pacific Northwest aquatic ecosystems have been intentionally and unintentionally altered by humans



Reality #3

Mitigation measures implemented (legally promised) to replace accepted/anticipated lost production

Mitigate = 1) To make an offense or crime less serious or more excusable; and 2) To make something less harsh, severe or violent.

Common misconception:

We have low productivity because we have hatcheries....

We have hatcheries because of low productivity

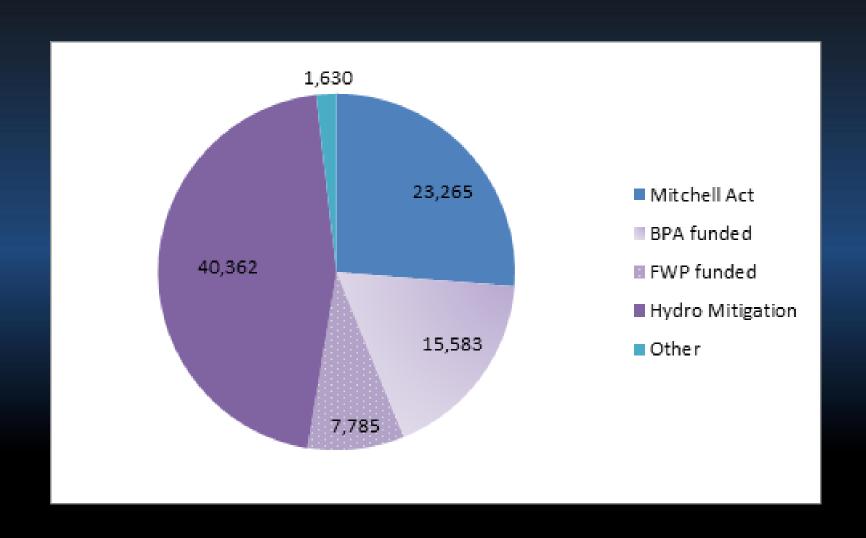


The hatchery programs in the Columbia Basin are producing fish to <u>mitigate</u> for the development and operation of the hydrosystem. <u>As long as the dams are in place there is a legal obligation to provide fish</u>.



Congressionally mandated mitigation obligations associated with the FCRPS are substantial and are not supplanted by the need to comply with the Endangered Species Act

Salmon and steelhead production (in thousands) above Bonneville Dam by funding authorization



Reality #4

Hatchery program implementation has associated benefits and risks

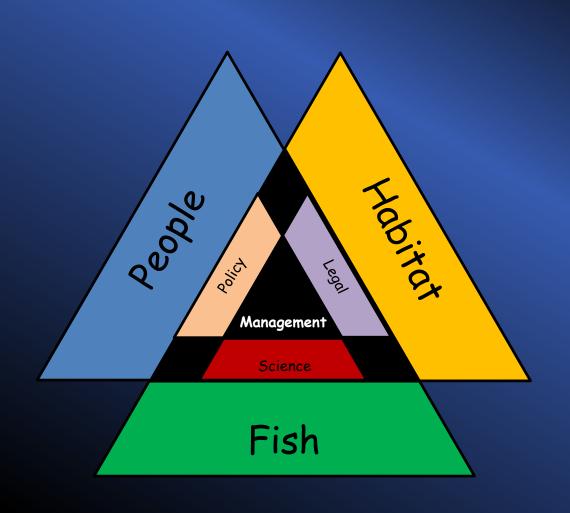
- + Increased harvest
- Reduced productivity
- + Reestablished populations
- Altered life history expression
- + Expanded distribution
- Reduced genetic fitness



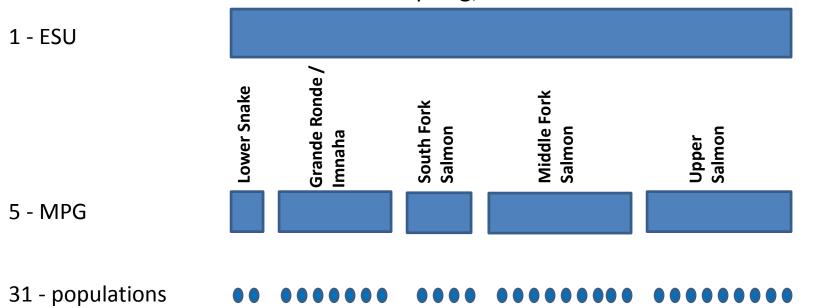
"Necessity is the mother of "taking chances"" Mark Twain 1835-1910

Reality #5

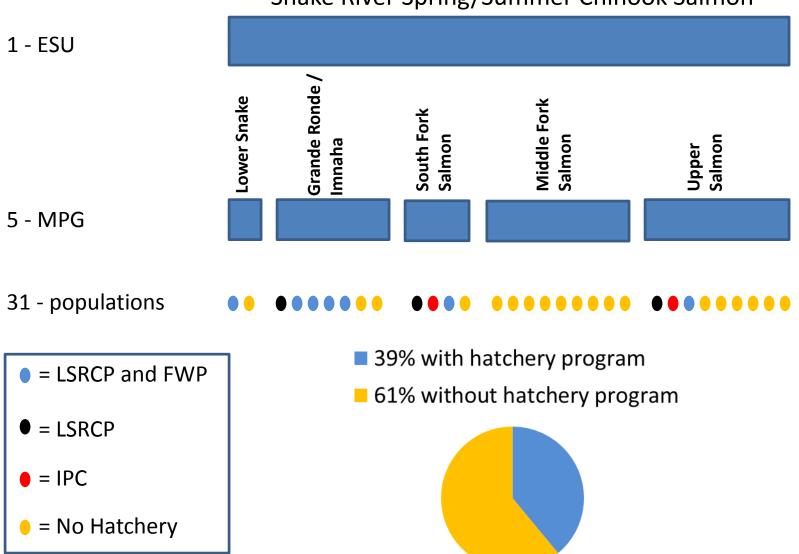
Fisheries management requires balancing many perspectives



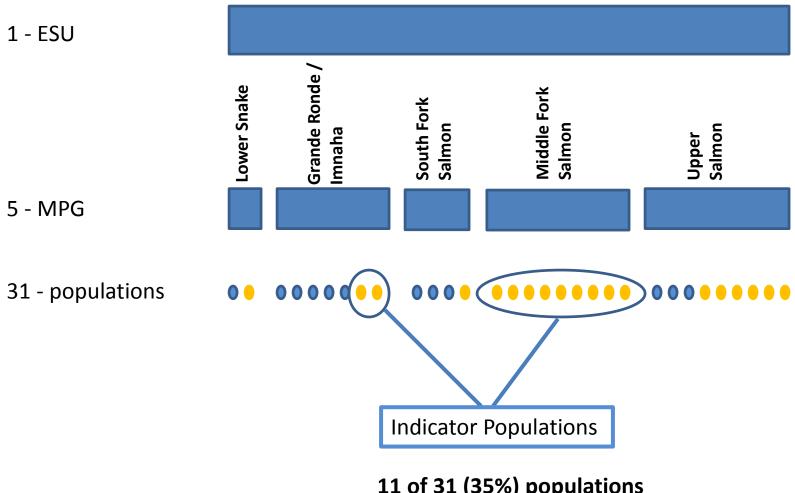
Snake River Spring/Summer Chinook Salmon



Snake River Spring/Summer Chinook Salmon

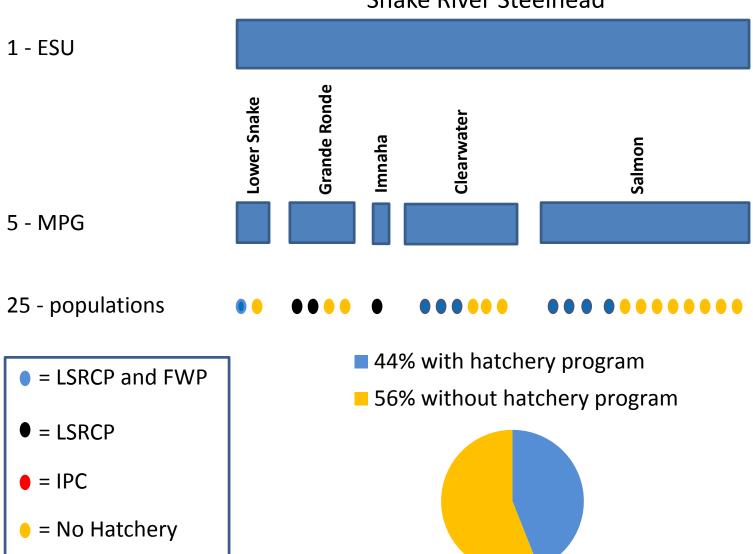


Snake River Spring/Summer Chinook Salmon



11 of 31 (35%) populations occupy wilderness (pristine) habitat and have no hatchery programs

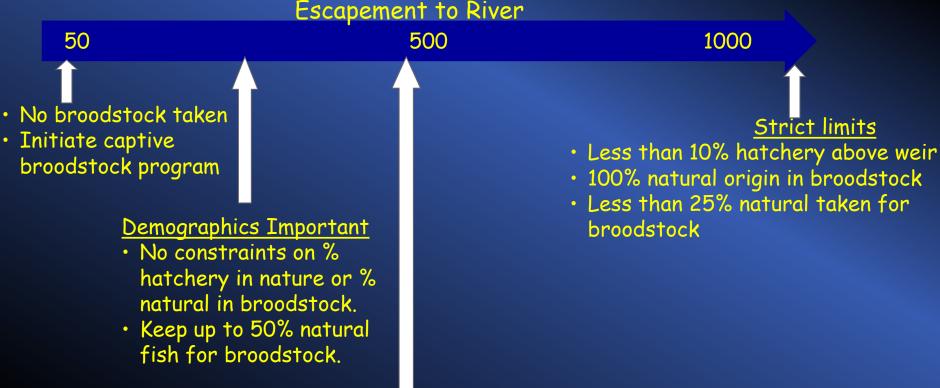
Snake River Steelhead



Managing Reality Action #2: Abundance-based hatchery origin gene flow

Broodstock Management Sliding Scale



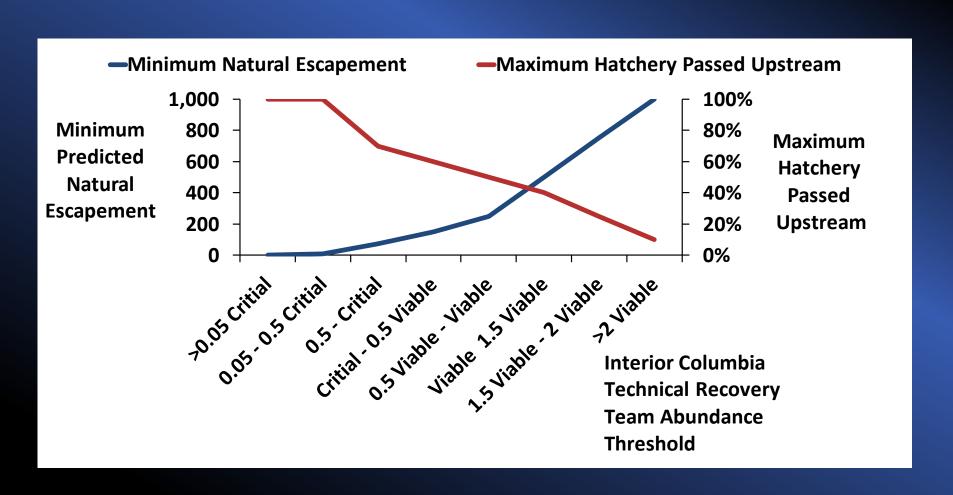


Genetic Conservation Important

- Limit % hatchery above weir to 50%
- Ensure minimum of 30%% natural origin in broodstock
- Minimize of 30% natural taken for broodstock

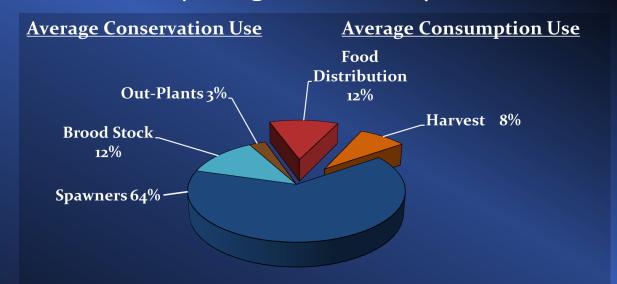
Managing Reality Action #2: Abundance-based hatchery origin gene flow

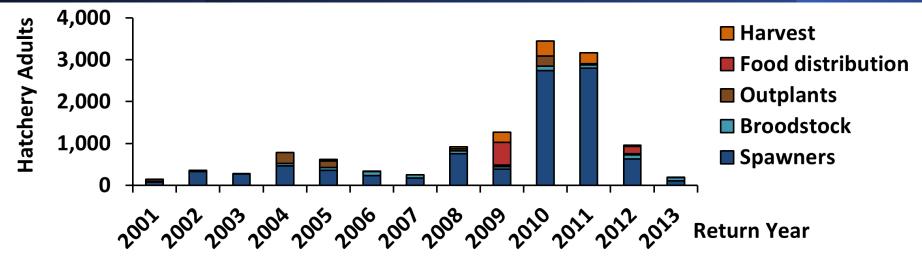
Broodstock Management Sliding Scale



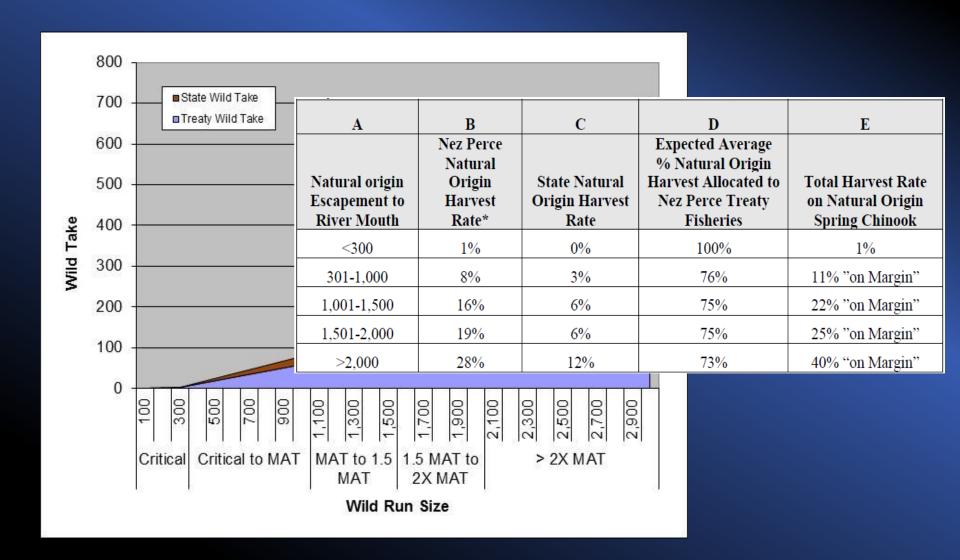
Managing Reality Action #2: Abundance-based hatchery origin gene flow Adult Hatchery-origin Fish Disposition

Lostine River Chinook Salmon 2009 - 2013

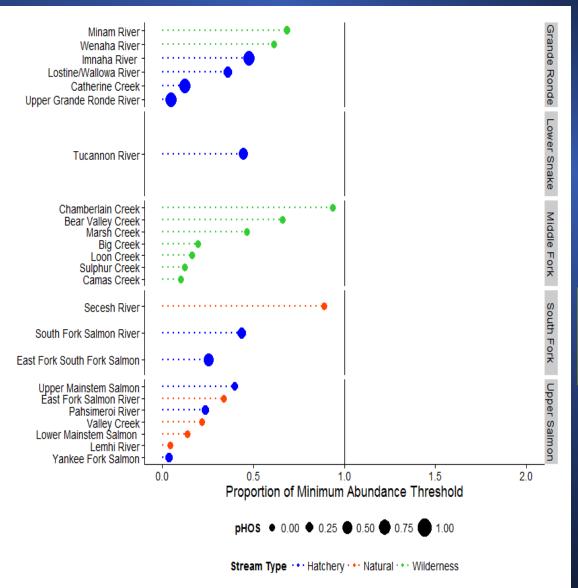




Managing Reality Action #3: Abundance-based harvest rates

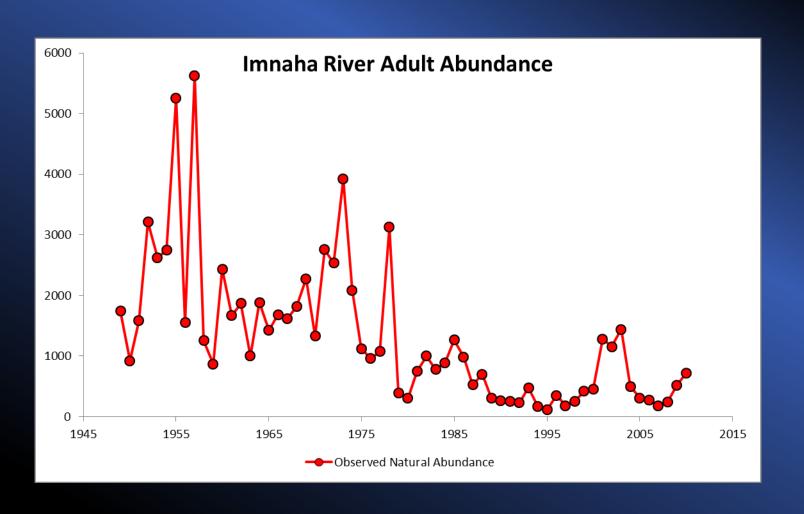


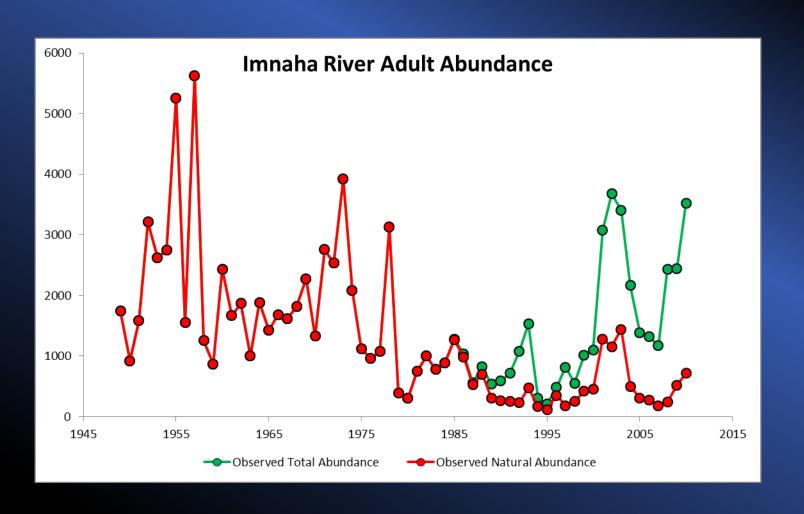
Natural-origin Abundance With and Without Hatchery Programs

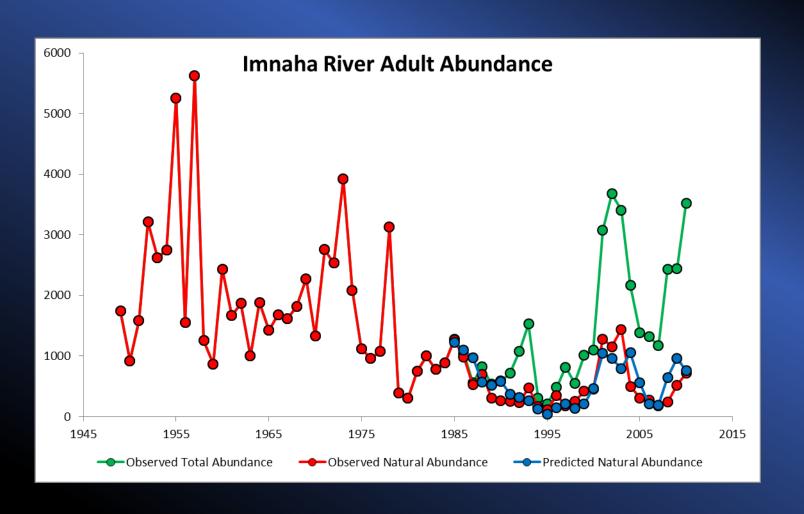


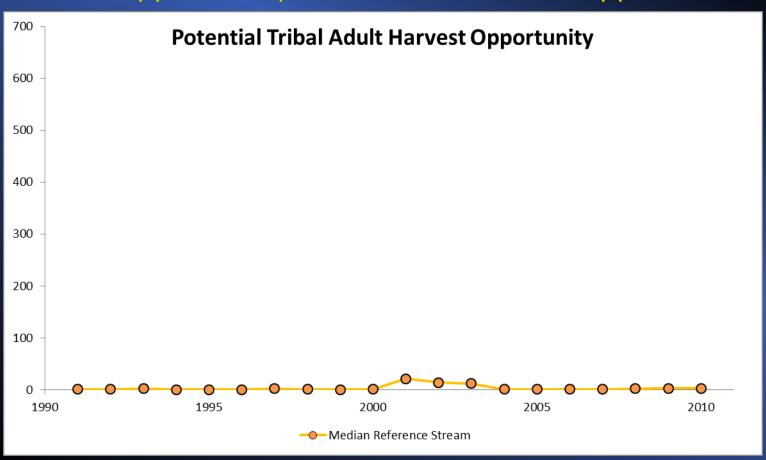
Population Abundance Relative to Minimum Abundance Threshold (10 year geometric mean ~ 2002-2011)

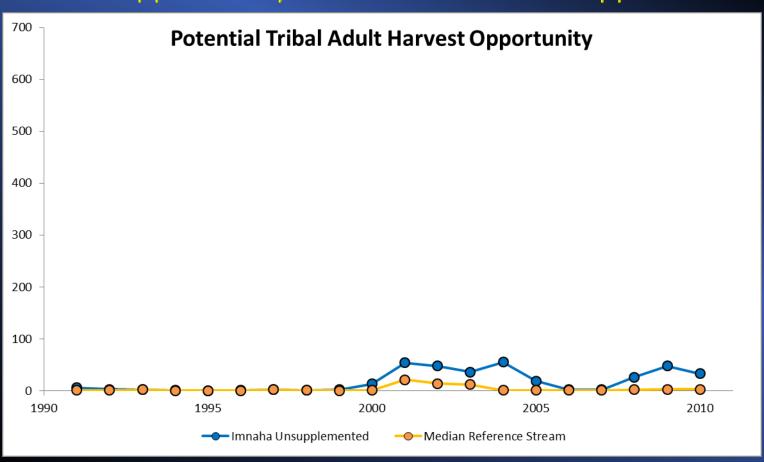
Abundance and Productivity rated as Moderate to High risk for all populations.



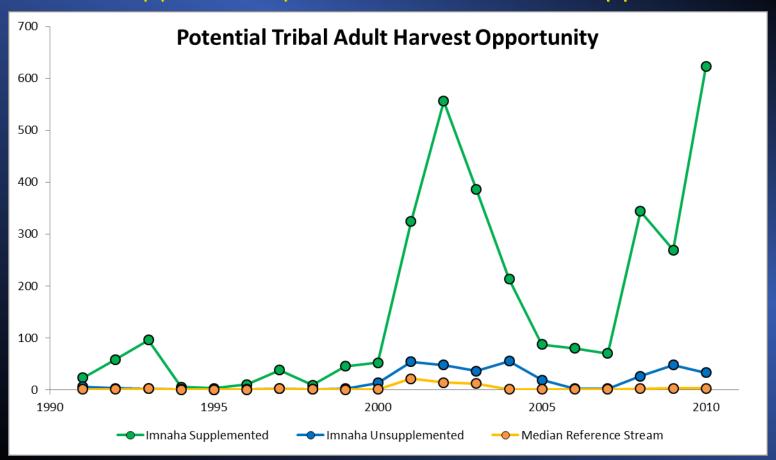






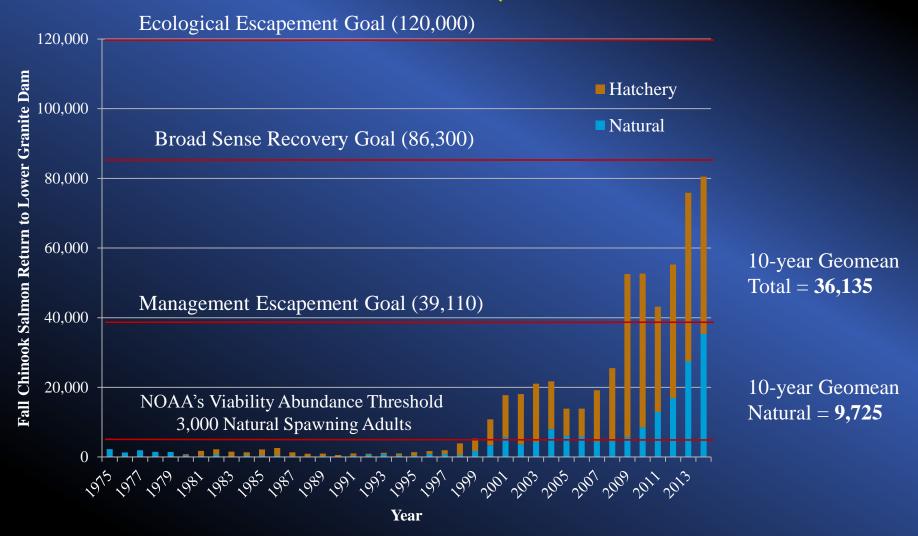


Harvest Opportunity with and without Supplementation



Contemporary ecosystem conditions are such that treaty-right harvest is not sustainable without hatchery programs

Reason for Optimism Snake River fall Chinook



Robust natural production can co-exist with integrated hatchery program

"Our fate and the fate of the fish are linked."

