



Status Versus Management Goals







Spring and Summer Chinook Salmon

Snake River Basin



Historically

- 7 anadromous fish stocks
- Over 2 million fish returned annually
- Stronghold habitat of spring Chinook and B-run steelhead





Niimíipuu (Nez Perce People)

Salmon a cultural cornerstone in Nimiipuu way-of-life





"...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...."

NEL PERCE





Healthy and Abundant Management Goal





A VISION for SALMON and STEELHEAD

Goals to Restore Thriving Salmon and Steelhead to the Columbia River Basin







Review

Management Goals and Thresholds





Snake River Stocks: Status Versus Management Goals

2023 Technical Management Team Year-end





Snake River Stocks: Status Versus Management Goals 2023 Technical Management Team Year-end Review

Stock Status Grade



Historical-----A+

Abundant-----A/B

Healthy-----B/C



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Snake Basin Anadromous Fish Report Card (Stock Status Grade)

Stock	Grade	Status Description
Spring/summer Chinook	Ε	High risk of extinction
Steelhead	E	High risk of extinction
Fall Chinook	С	Viable, but not healthy; hatchery supplemented
Sockeye	F	Functionally extinct; hatchery life-support
Coho	F	Extinct; re-introduced, hatchery supplementation
Lamprey	E	High risk of extinction; adult translocation
Sturgeon	D	Degraded



Snake Basin

Stock Specific Population Status Summary





Over half the historical populations extirpated None of the extant populations considered healthy and harvestable



Snake Basin Salmon and Steelhead Status Relative to Historical Abundance and Columbia Basin Partnership



Columbia Basin Partnership high-range goals 5 – 31% of historical All but one stock below low-range goals Fall Chinook above low-range, but below mid-range goals



Snake River Spring – Summer Chinook Salmon

Spring/summer Chinook Salmon at Lower Granite Dam







Snake River Wild Spring/Summer Chinook Salmon

Abundance at Lower Granite Dam



2023 consistent with high spill and good ocean expectations 2023 natural-origin abundance still below low-range goals





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Currently

Quasi-Extinction Threshold (QET)

Spring-summer Chinook Salmon

Future predictions of natural-origin spawner abundance (NOSAij) for Snake River Basin show 19 populations (61%) will start to drop below the the guasi-extinction threshold (QET; dashed line; 50 spawners) within the next 5 years.



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From 2018 to 2021, 13 (42%) populations with 50 or fewer spawners 5 additional pops below 50 spawners in at least one year since 2017



McCann et al. 2022. Chapter 6

SARs required to achieve population specific goals

Increasing impact

Population Group	Viable	Healthy & Harvestable
Wilderness (5)	0.9% 0.7%-1.3%	2.7% 1.6%-5.0%
Hatchery Influenced (2)	1.9% 1.8%-1.9%	8.3% 6.4%-10.2%
Habitat Restoration (3)	4.3% 3.2%-5.1%	17.2% 12.9%-20.7%
Clearwater (4)	10.9% 4.0%-22.2%	47.8% 15.1%-100.1%
Aggregate (2)	2.8% 2.5%-3.1%	12.4% 11.1%-13.8%

McCann et al. 2022. Chapter 6

Observed SAR (top) and adult Chinook abundance at Lower Granite Dam





Snake River Steelhead

Summer Steelhead at Lower Granite Dam







Snake River Fall Chinook Chinook Salmon

Abundance at Lower Granite Dam





Natural-origin abundance above ESA delisting criteria of 4,200 Non-selective ocean and Zone 1 -6 harvest rate is ~50%

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Questions?



Photos by Mary Edwards (www.maryedwardsphotography.com)



Lamprey

Data provided by NPT, CTUIR, and Corps of Engineers



Translocation releases 1.4 times more than volitional index