

Collaborative Efforts to Balance Hatchery Program Needs and Popular Sport and Tribal Fisheries



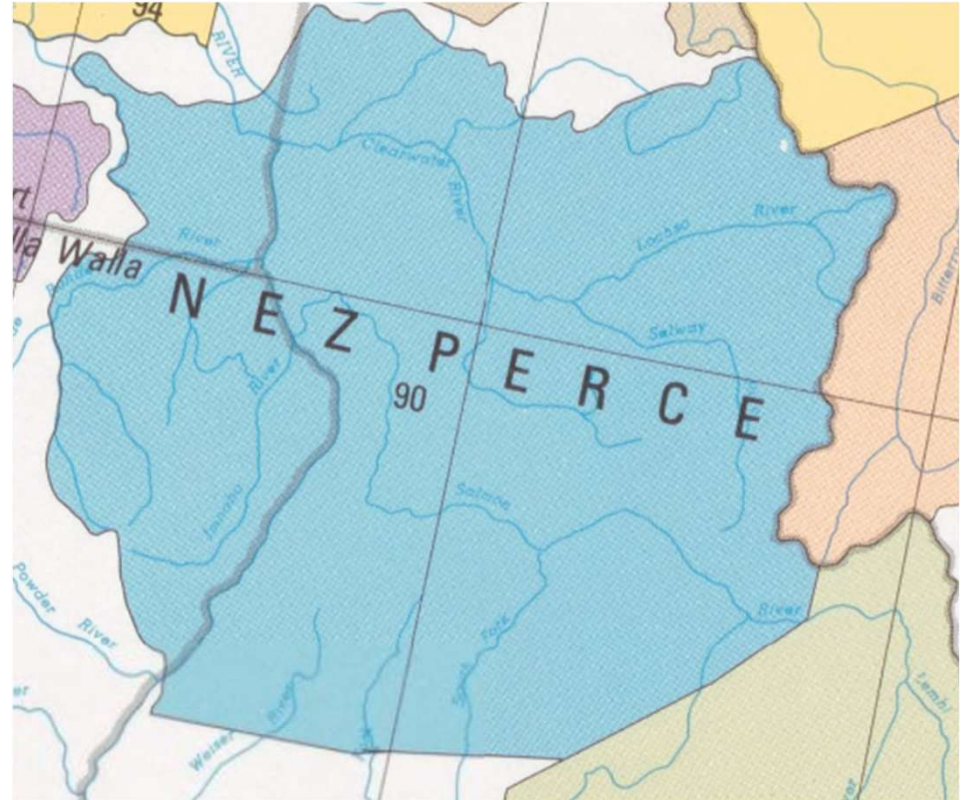
Nez Perce Treaty of 1855

- The exclusive right of taking fish in all the streams where running through or bordering said reservation is further secured to said Indians; as also the right of taking fish at all usual and accustomed places in common with citizens of the Territory...(12 Stats. 957, Article 3). Treaty of 1855.



Nez Perce Overall Vision

- Our vision is to ensure “all species and populations of anadromous and resident fish and their habitats will be healthy and harvestable within Nez Perce U & A areas.”
- NPT guaranteed fair and equitable share of any given run returning to their U&A fishing places.
- Fair share (1969 Belloni Decision) means right to harvest up to 50% of harvestable surplus fish.



Nez Perce View Steelhead

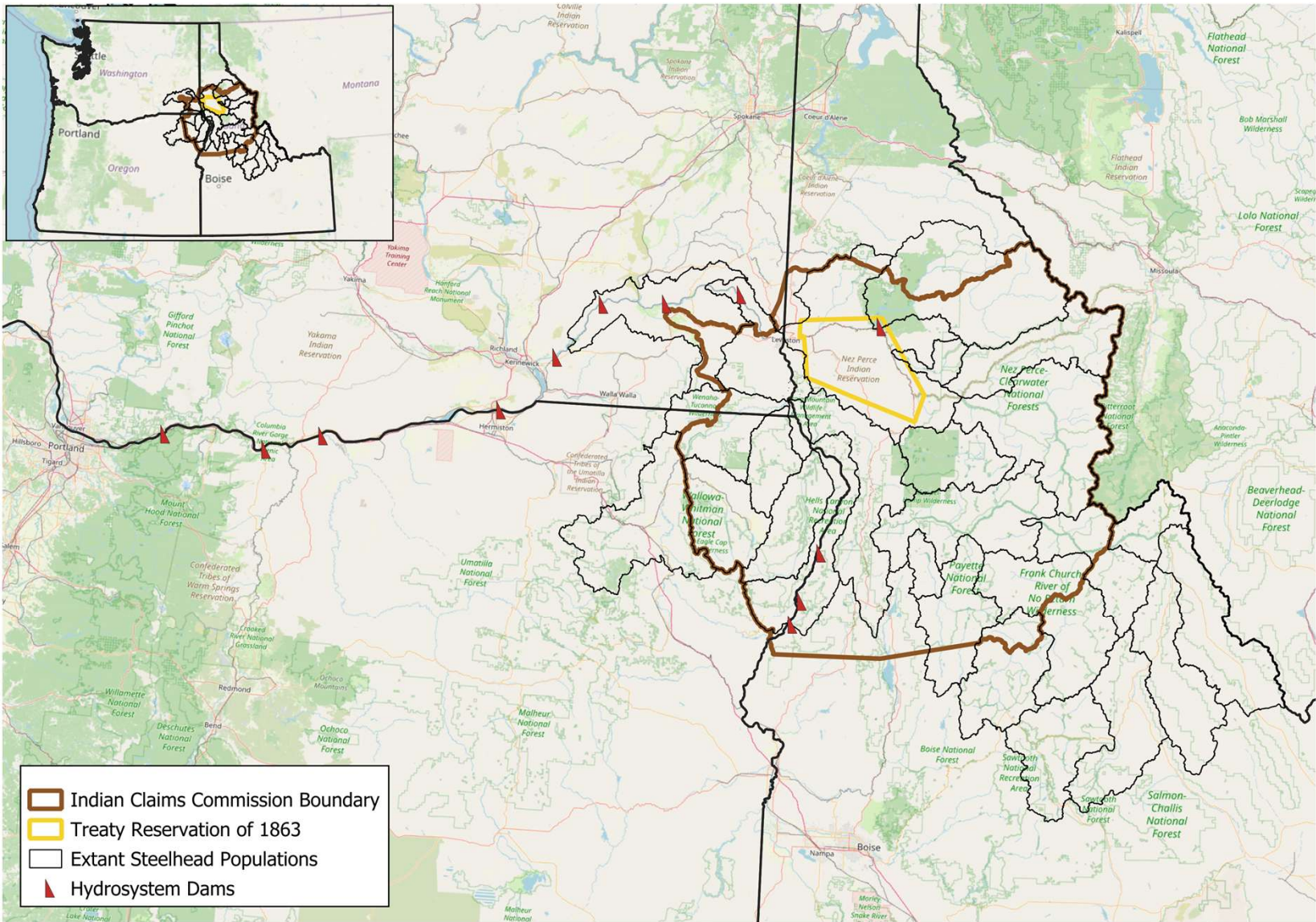
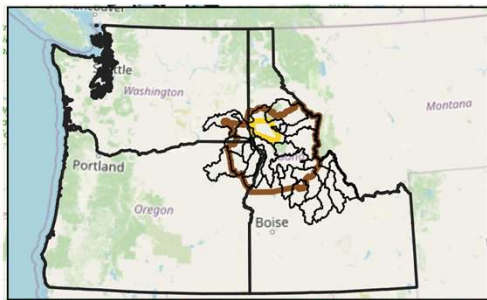
- Maintain the connection between fishing activities and the perpetuation of tribal customs, traditions, and family history of steelhead fishing
- Improve access to fishery areas and ability of Tribe to manage our treaty fisheries to attain the treaty harvest share.



Nez Perce View Steelhead

- The four Lower Snake River dams impacts adult steelhead returns and our capacity to catch fish in the volumes we used to.
- Hatcheries established in part to mitigate this loss of harvestable salmon and steelhead from operation of these four Lower Snake River Dams.
- Hatcheries play a critical role in producing fish to feed Nez Perce families and to provide opportunity for tribal members to earn some sort of living by fishing for steelhead.





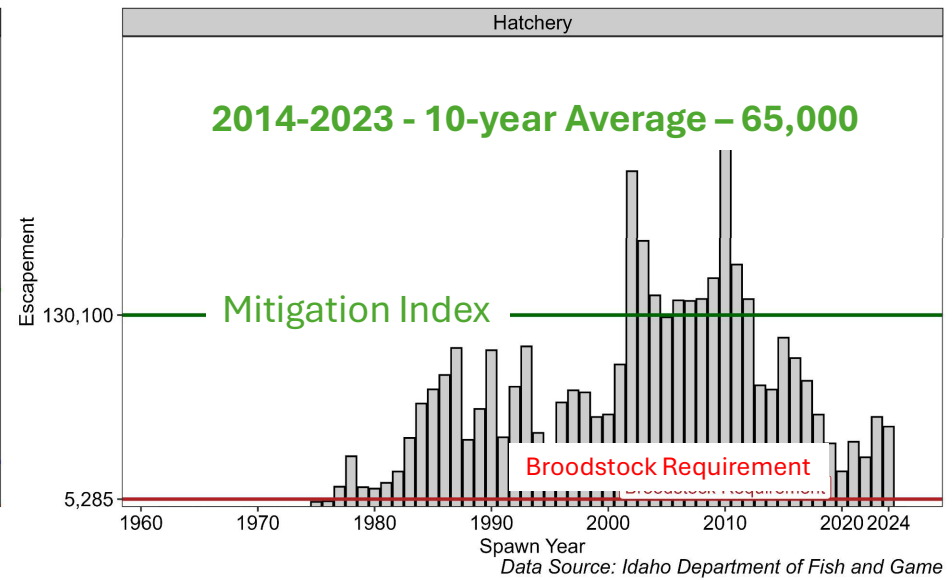
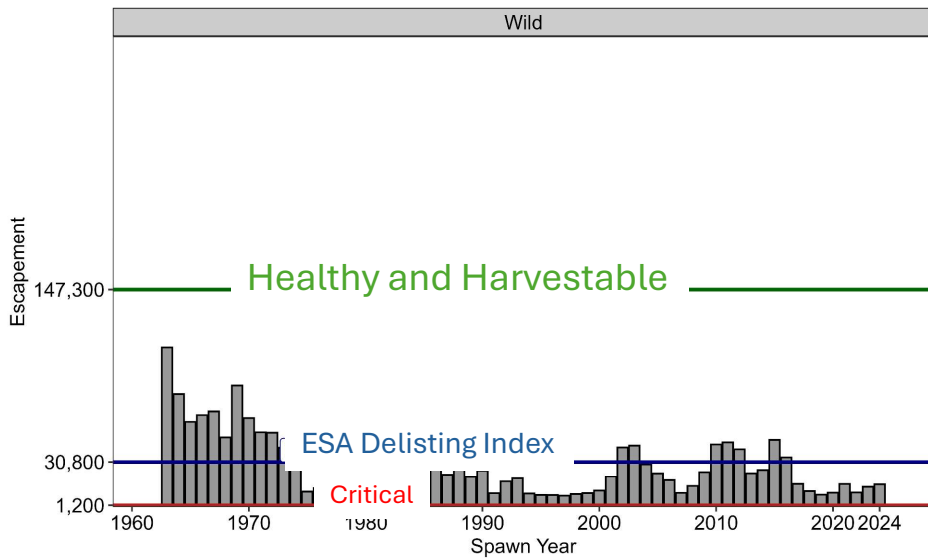
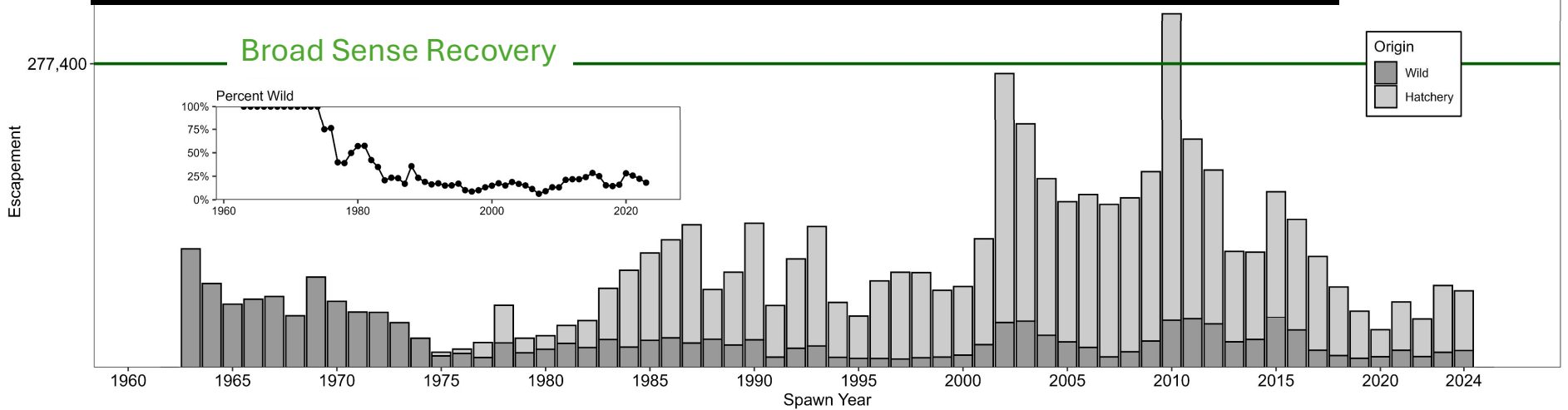
- Indian Claims Commission Boundary
- Treaty Reservation of 1863
- Extant Steelhead Populations
- Hydrosystem Dams

Snake Basin

Steelhead Management and Recovery Goals

Origin	Goal	Threshold
Total	Broad Sense Recovery	277,400
Hatchery	Mitigation Index	130,100
	Broodstock Requirement	5,285
Wild/Natural	Health and Harvestable	147,300
	ESA Delisting Index	30,800
	Critical (QET)	1,200

Snake Basin Natural and Hatchery Abundance



Natural Population Status

Predicted Above 50 in 2029

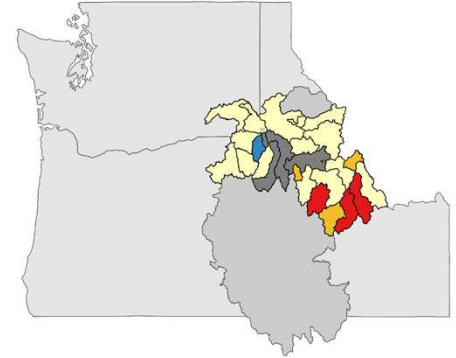
Above Minimum Abundance

Extinct

Not Modeled

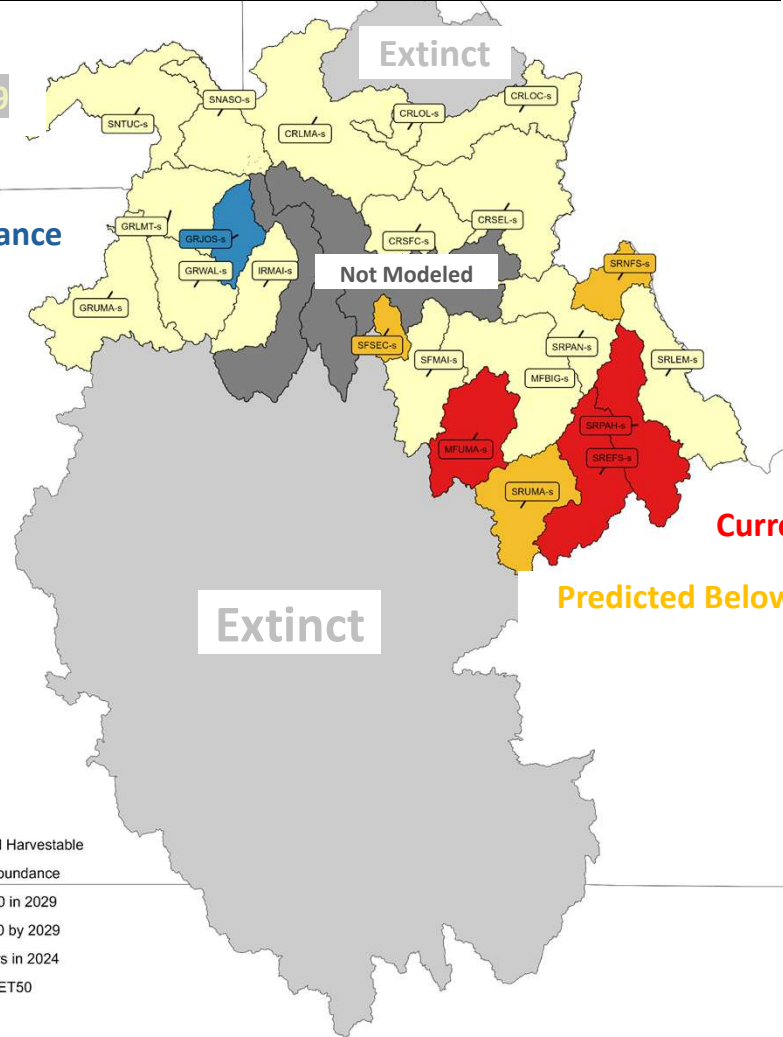
Currently Below 50

Predicted Below 50 in 2029

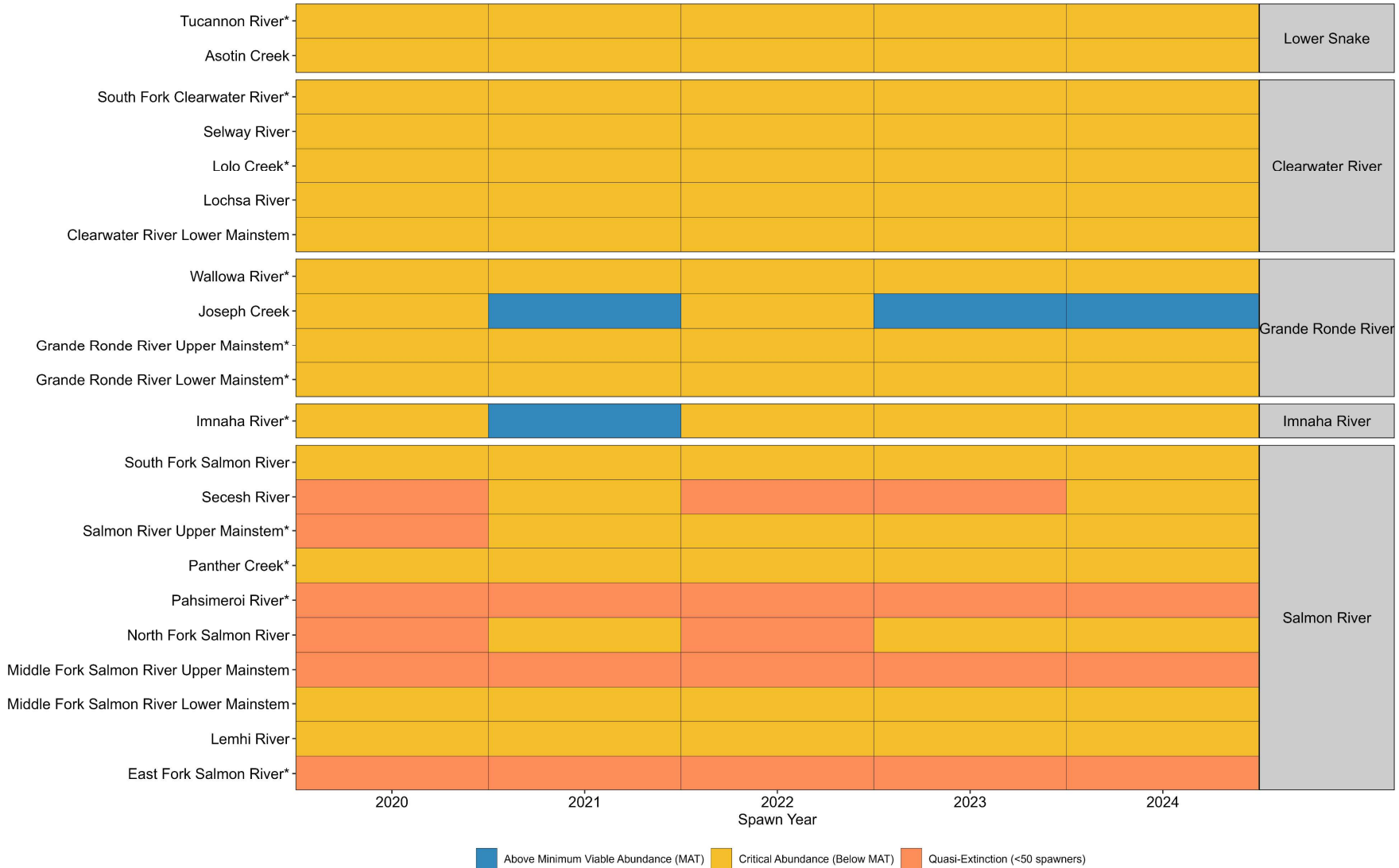


Population Status

- Above Healthy and Harvestable
- Above Minimum Abundance
- Predicted Above 50 in 2029
- Predicted Below 50 by 2029
- Below 50 Spawners in 2024
- Currently Below QET50
- Not Modeled
- Extinct



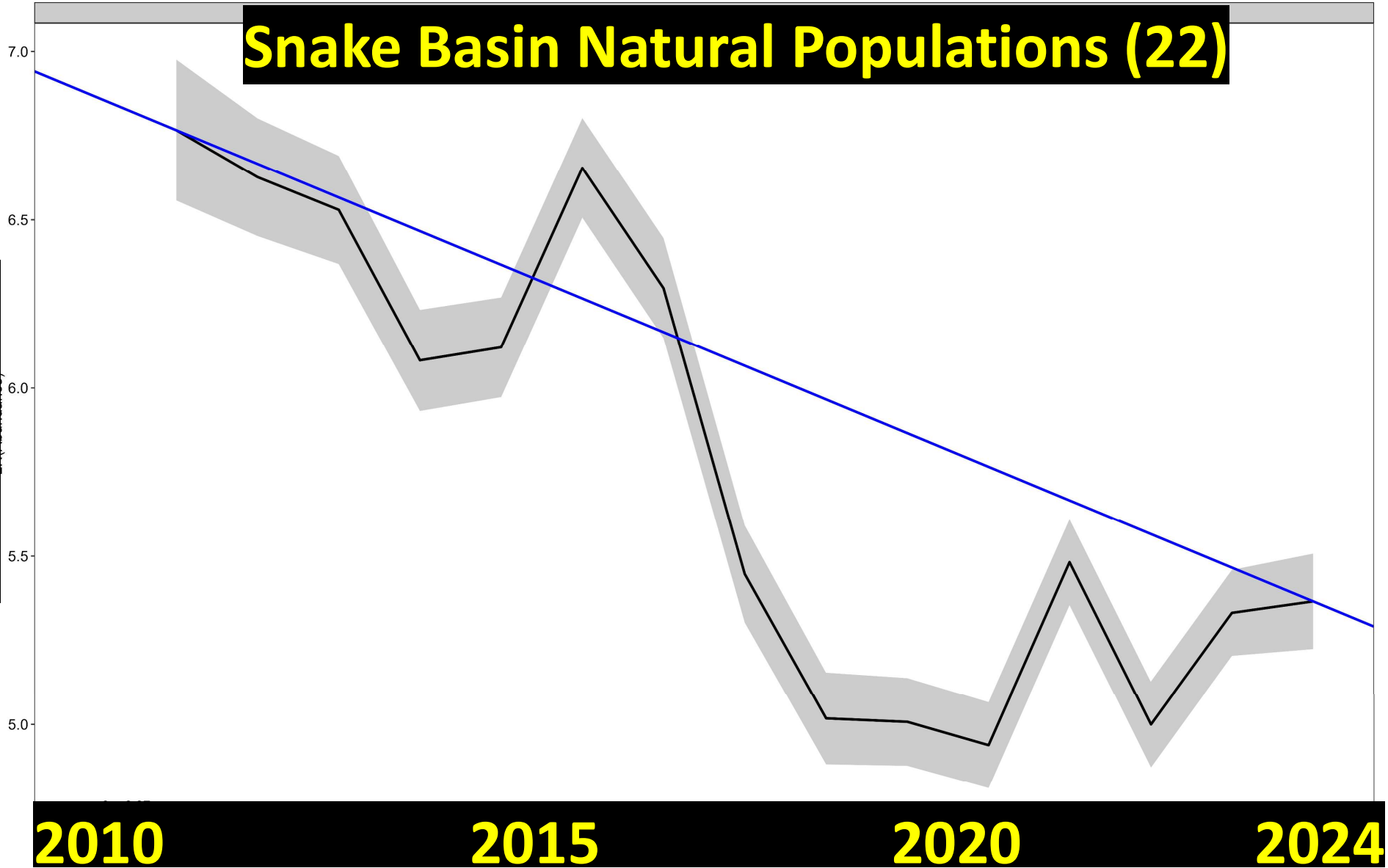
Natural Population Status Last Five Years



■ Above Minimum Viable Abundance (MAT)
 ■ Critical Abundance (Below MAT)
 ■ Quasi-Extinction (<50 spawners)

Snake Basin Natural Populations (22)

LN (Abundance)



Snake Basin Hatchery Production

Species	Number Released
• Steelhead	8,898,000
• Spring Chinook	10,594,000
• Summer Chinook	4,640,000
• Fall Chinook	5,700,000
• Coho	1,555,000
• Sockeye	1,000,000
Totals	32,382,000

Fishery Management Outside Snake Basin



Photo credit: thecolumbian.com



Photo credit: critfc.org



Photo credit: <http://totalfisherman.com/>

Fishery Management Outside Snake Basin

- Ocean fisheries - Pacific Salmon Treaty (1985)
 - Pacific Salmon Commission
 - Pacific Fishery Management Council
- Harvest of Snake R steelhead and spring/summer Chinook is very minimal
- Substantial harvest on fall Chinook and coho



Fishery Management Outside Snake Basin

- Ocean fisheries - Pacific Salmon Treaty (1985)

- Pacific Salmon Commission
- Pacific Fishery Management Council

- Harvest of Snake R steelhead and spring/summer Chinook is very minimal

- Columbia River fisheries

- US v OR Management Agreement
- Spring, Summer, Fall Management periods



Forecasts start the process

- Forecasts are generated for:
 - Spring, summer and fall Chinook Salmon
 - Steelhead
 - Coho Salmon
 - Sockeye Salmon
- Forecasts generated at the Columbia River Mouth and Lower Granite Dam

Tribal and State Fishery Management and Evaluation Plans (FMEP's & TRMP's)

FISHERIES MANAGEMENT AND EVALUATION PLAN Submitted Under ESA Section 4(d)

IDFG Recreational Steelhead Fisheries Prepared by
Idaho Department of Fish and Game

Submitted December 2010
Updated with Recent Information 2018

LONG-TERM NEZ PERCE HARVEST PLAN FOR SNAKE RIVER SPRING/SUMMER CHINOOK SALMON IN THE IMNAHA AND GRANDE RONDE SUBBASINS OF NORTHEAST OREGON

Nez Perce Tribe

Endangered Species Act (ESA) Section 7(a)(2) Biological Opinion and Magnuson-Stevens
Fishery Conservation and Management Act Essential Fish Habitat (EFH) Consultation

Fall Chinook, Coho Salmon, and Resident Trout Fisheries in the Snake River Basin

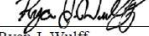
NMFS Consultation Number: WCR-2019-00400

Action Agency: National Marine Fisheries Service (NMFS)

Affected Species and Determinations: ESA-Listed Species	Status	Is the Action Likely to Adversely Affect Species or Critical Habitat?	Is the Action Likely To Jeopardize the Species?	Is the Action Likely To Destroy or Adversely Modify Critical Habitat?
Chinook salmon (<i>Oncorhynchus tshawytscha</i>)				
Snake River spring/summer	Threatened	Yes	No	No
Snake River fall	Threatened	Yes	No	No
Sockeye salmon (<i>O. nerka</i>)				
Snake River	Endangered	Yes	No	No
Steelhead (<i>O. mykiss</i>)				
Snake River	Threatened	Yes	No	No

Fishery Management Plan That Describes EFH in the Project Area	Does the Action Have an Adverse Effect on EFH?	Are EFH Conservation Recommendations Provided?
Pacific Coast Salmon	No	No

Consultation Conducted By: National Marine Fisheries Service, West Coast Region,
Sustainable Fisheries Division

Issued By: 
Ryan J. Wulff
Assistant Regional Administrator

Date: August 28, 2019

Average Snake Basin Harvest Shares

**SRB HATCHERY
ADULT RETURN
10 YEAR AVERAGE
(2014-2023)**

65,000

**HATCHERY
BROODSTOCK
NEED**

5,000

**HARVESTABLE
FISH**

60,000

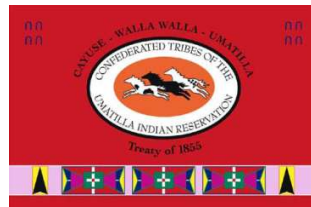
**HARVEST
SHARE**

30,000

Partnerships and Communication are Key



LOWER SNAKE RIVER
COMPENSATION PLAN
Hatchery Program



Weekly Coordination Call Agenda

- **Down River TAC updates**
- **Adult Migration Conversions (issues with passage, etc.)**
- **Lower Granite Dam Trapping Update**
- **Steelhead Run Updates (PIT Tag Based)**
 - **Washington, Oregon, Idaho**
- **Harvest Share Updates**
- **Fisheries Harvest Updates - Non-Tribal & Tribal**
- **Broodstock and Hatchery Coordination**
 - **Plans for using fish in excess of broodstock needs**
 - **Plans for back filling broodstock shortfalls**

Bonneville PIT Estimate				
Release Group	1- Ocean	2- Ocean	3- Ocean	Total
Clearwater Hatchery	723	4,175	11	4,909
CFH-Red House Hole Ad-clip	160	938	0	1,098
CFH-Meadow Cr. Ad-clip	324	1,071	0	1,395
CFH-Meadow Cr. No-clip	131	1,009	0	1,140
CFH-Newsome Cr. No-clip	108	1,157	11	1,275
Dworshak NFH	661	13,821	297	14,779
DNFH-Clear Cr. Ad-clip	3	1,946	1	1,950
DNFH-North Fork Ad-clip	564	8,612	81	9,257
DNFH-Red House Hole Ad-Clip	93	2,363	216	2,672
DNFH-SFClwrMM23 No-clip	0	901	0	901
Hagerman NFH	8,388	3,580	2	11,969
HNFH-East Fork Salmon R. No-clip	116	48	0	165
HNFH-Sawtooth Ad-clip	8,271	3,531	2	11,805
Magic Valley Hatchery	0	3,896	469	4,365
MVFH-Little Salmon-PAH Ad-clip	0	1,473	126	1,599
MVFH-Little Salmon-USAL Ad-clip	0	0	143	143
MVFH-Little Salmon-DWOR Ad-clip	--	--	--	0
MVFH-Little Salmon-SAW Ad-clip	--	--	--	0
MVFH-Pahsimeroi R.-DWOR No-clip	0	211	0	211
MVFH-Pahsimeroi R.-USAL No-clip	0	1,146	1	1,147
MVFH-Sawtooth Ad-clip	0	641	142	783
MVFH-Yankee Fk.-DWOR Ad-clip	0	228	0	228
MVFH-Yankee Fk.-DWOR No-clip	0	198	0	198
MVFH-Yankee Fk.-USAL Ad-clip	0	0	57	57
MVFH-Yankee Fk.-USAL No-clip	--	--	--	0
Niagara Springs Hatchery	3,669	4,342	407	8,418
NSFH-Hells Canyon-OXB Ad-clip	2,261	2,136	278	4,674
NSFH-Little Salmon R.-OXB Ad-clip	516	386	129	1,031
NSFH-Little Salmon R.-PAH Ad-clip	0	270	0	270
NSFH-Pahsimeroi R.-PAH Ad-clip	892	1,551	1	2,444
Total	13,440	29,814	1,186	44,441

Bonneville Window Count	
Date	11/4/2025
Clipped	92,021
Unclipped	61,639
Total	153,660

Most Recent PIT Detection
11/1

Bonneville PIT Estimate

Release Group	1-Ocean	2-Ocean	3-Ocean	4-Ocean	Total
Clearwater Hatchery	723	4,175	0	0	4,898
CFH-Red House Hole Ad-clip	160	938	0	0	1,098
CFH-Meadow Cr. Ad-clip	324	1,071	0	0	1,395
CFH-Meadow Cr. No-clip	131	1,009	0	0	1,140
CFH-Newsome Cr. No-clip	108	1,157	0	0	1,265
Dworshak NFH	661	13,821	0	0	14,482
DNFH-Clear Cr. Ad-clip	3	1,946	0	0	1,949
DNFH-North Fork Ad-clip	564	8,612	0	0	9,176
DNFH-Red House Hole Ad-Clip	93	2,363	0	0	2,456
DNFH-SFCIwrMM23 No-clip	0	901	0	0	901

Lower Granite PIT Estimate

Release Group	1-Ocean	2-Ocean	3-Ocean	4-Ocean	Total
Clearwater Hatchery	605	2,908	11	0	3,524
CFH-Red House Hole Ad-clip	80	604	0	0	684
CFH-Meadow Cr. Ad-clip	324	671	0	0	996
CFH-Meadow Cr. No-clip	131	700	0	0	831
CFH-Newsome Cr. No-clip	69	933	11	0	1,012
Dworshak NFH	499	10,713	109	0	11,321
DNFH-Clear Cr. Ad-clip	2	1,557	0	0	1,559
DNFH-North Fork Ad-clip	404	6,620	1	0	7,025
DNFH-Red House Hole Ad-Clip	93	1,636	108	0	1,837
DNFH-SFCIwrMM23 No-clip	0	901	0	0	901

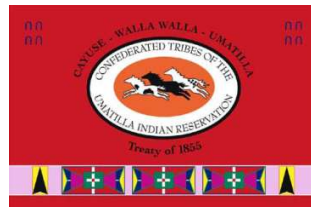
Clearwater Basin Harvest Shares

Projected 2/3-Oc Harvest Share Based on Anticipated Spring Detections at Lower Granite								
Rearing Hatchery	LGD Estimate			Harvest Share			Hatchery	% of Run Passing LGD in the Spring (10 Yr Avg)
	Fall	Current	Proj. total	Fall	Current	Proj. total		
Clearwater		1,275	0	-61	577	-61	Clearwater	4.6%
Dworshak		9,921	0	-495	4,466	-495	Dworshak	6.1%
TOTAL	0	11,197	0	-556	5,042	-556		

Partnerships and Communication are Key



LOWER SNAKE RIVER
COMPENSATION PLAN
Hatchery Program



Summary & Conclusions

- Snake Basin Managers Utilize many tools for in season hatchery and harvest management
 - Able to track Realtime stock abundances, run timing, and conversion rates
 - Manage for uncertainty around estimates
 - Adjust harvest management in-season, utilizing PIT tags
 - Strong communication and collaboration is strengthened by weekly coordination calls