

**Calendar Year 2025
Annual Operation Plan
for
Salmon and Steelhead
Production Programs
in the
Salmon and Snake River Basins**

**Prepared by
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0. Preamble

The Annual Operating Plan (AOP) meeting and AOP/SOP documents are planning, coordination and logistics tools that identify the expected implementation of a number of hatchery operation and research/monitoring activities for the coming year in a transparent, open manner.

It is the responsibility of all AOP parties to participate in AOP meetings, provide follow up information and assistance as requested or needed, and work in good faith to complete the AOP document within the timeframe agreed upon at the AOP coordination meeting. A finalized electronic version of the AOP will be available to all cooperating agencies and serve as the working version of the document.

If a disputed or incomplete item is identified at the AOP meeting and persists to the end of the agreed completion timeframe for finalizing the AOP documents, the AOP will be finalized without the disputed or incomplete section. However, parties to the dispute will add a placeholder in the document, so they can work toward resolution.

After the AOP is finalized, and based on unforeseen or unanticipated circumstances (e.g., lower than expected returns, loss of production, infrastructure issues as examples), changes or deviations from the AOP may be warranted. In those cases, there is an expectation that the lead agency that has identified the issue will communicate with the appropriate AOP parties, through the weekly coordination calls or by email, so they can work collaboratively to address it and/or work towards resolution. Implemented changes should be documented in writing by the lead agency and communicated, to ensure transparency and as documentation of the change. These changes should also be captured in various year-end reports.

1. Summer Steelhead

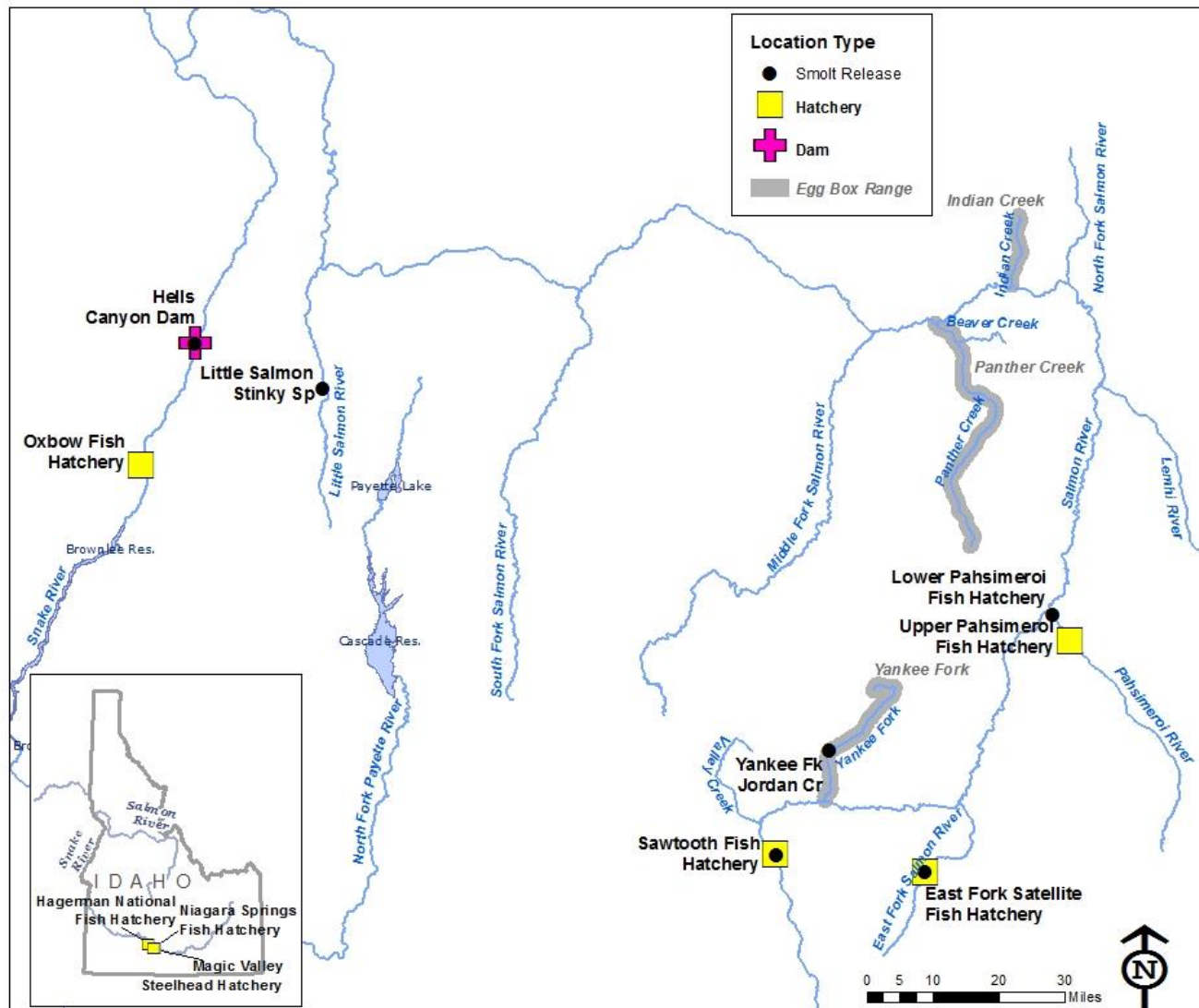


Figure 1.1. Steelhead facilities, smolt releases and egg box locations.

Table 1.1. Steelhead Release Goals.

Smolt Release Program	Rearing Facility	Release Site	Parent Stock	BY 2024 Smolt Release Goal
LSRCP / IDFG	HNFH	Sawtooth Weir	SawA	1,410,000
	HNFH	Sawtooth Weir (PRAS Eval) ¹	SawA	90,000
	HNFH	E. Fork Salmon R. - Upper	EFNat	60,000
	Total			1,560,000
	MVFH	Sawtooth Weir	SawA	279,000
	MVFH	Little Salmon R. - Stinky Sp.	SawA	403,000
	MVFH	Pahsimeroi Weir	USRB	434,000
	MVFH	Yankee Fork	USRB	434,000
	Total			1,550,000
IPC / IDFG	NSFH	Pahsimeroi Weir	PahA	800,000
	NSFH	Little Salmon R. - Stinky Sp.	PahA	200,000
	NSFH	Little Salmon R. - Stinky Sp.	OxbA	250,000
	NSFH	Snake R. Hells Canyon	OxbA	550,000
Total			1,800,000	
Grand Total				4,910,000

¹ HNFH SAW-A PRAS were released to Salmon Falls Creek Reservoir 10/1/2024 as juveniles.

Egg Box Program	Hatchery Egg Source	Egg Box Site	Parent Stock	Egg Box BY2025 Outplant Goals
SBT	PFH/SFH	Yankee Fork	USRB/SawA ¹	500,000
	PFH	Panther Creek	PahA	300,000
		Indian Creek	PahA	200,000
	Total			1,000,000

¹ USRB or SawA eggs will be used for the SBT egg box program in the Yankee Fork

1.1. Timeline and Flowchart for Steelhead Production

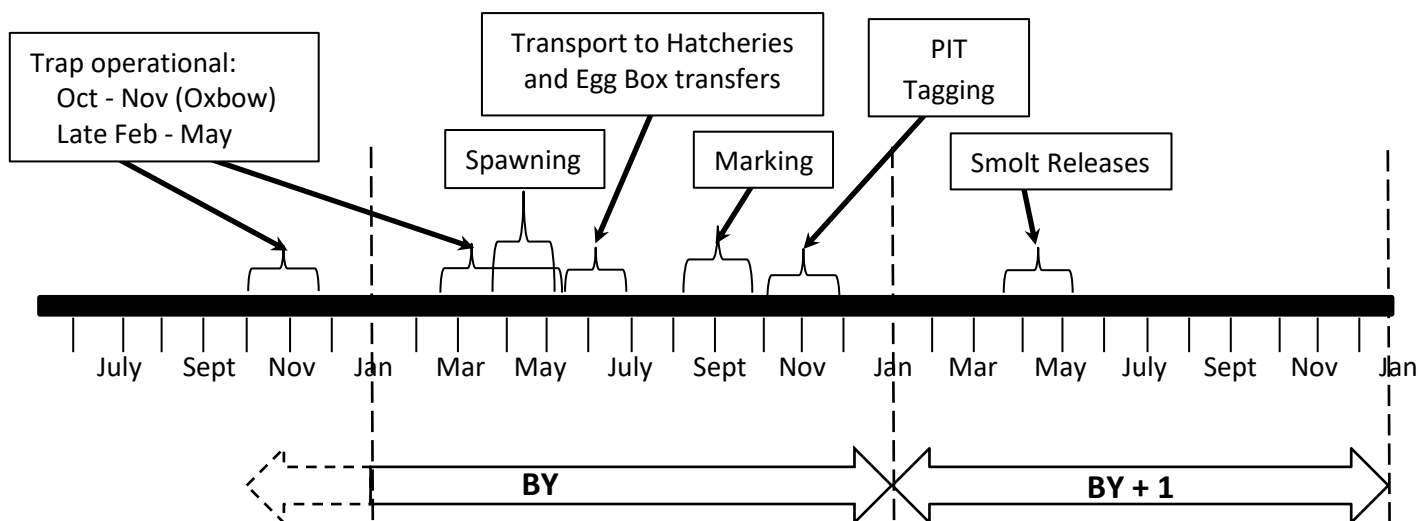


Figure 1.2. Timeline for Steelhead Production. Date ranges are shown to include all facilities' operations

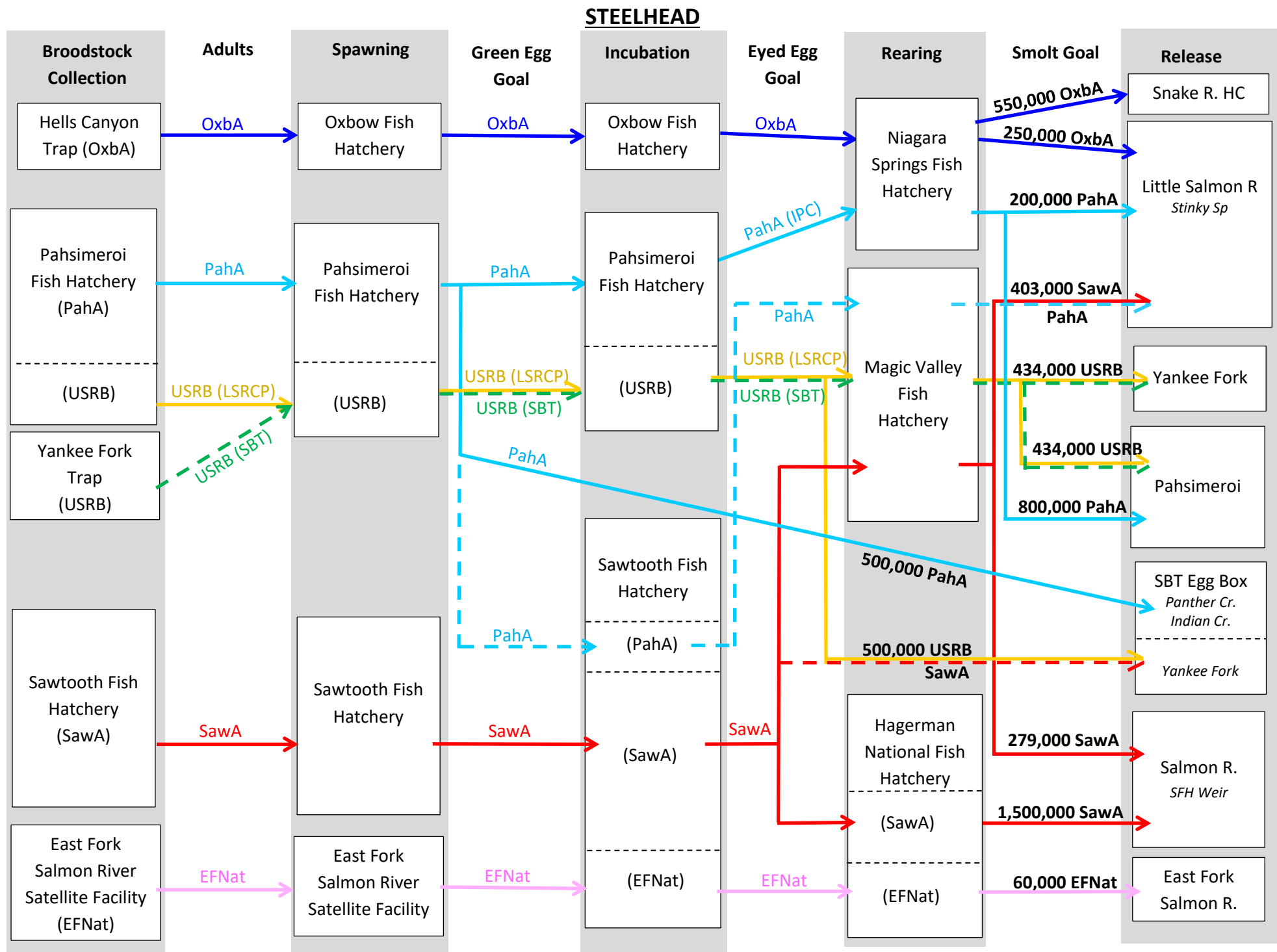


Figure 1.3. Fish and egg movements for Steelhead. Numbers reflect 2025 releases.

1.2. Releases in 2025 (Smolt BY 2024, Egg Box BY 2025)

1.2.1. Releases in 2025 (Smolt BY 2024, Egg Box BY 2025) – Totals

Table 1.2a. Steelhead Rearing Metrics for BY 2024 fish

Hatchery	Release Site	Stock	Eggs/Fry Shipped/Received	Inventory To Date		Release Goals		Excess Fry/ Fingerlings Released		Projected Smolt Releases		
				Date	Number	Number	Size (FPP)	Number	Release Site (Date)	Dates	Number	Size (FPP)
HNFH	Sawtooth Weir	SawA	1,571,920	1/1/2025	1,502,379	1,410,000	4.5	-		4/1-4/25/25	1,500,000	4.5
HNFH	Sawtooth Weir (PRAS Eval) ¹	SawA	99,536	1/1/2025	-	90,000	4.5	67,130	Salmon Falls Creek Reservoir			
HNFH	E. Fork Salmon R. - Upper	EFNat	60,222	1/1/2025	46,380	60,000	4.5	-		4/26/2025	46,000	4.5
Totals			1,731,678		1,548,759	1,560,000		67,130			1,546,000	
MVFH	Sawtooth Weir	SawA	333,172	1/1/2025	286,832	279,000	4.5	21,910	Oakley Reservoir	4/14-4/17/25	281,100	4.5
MVFH	Little Salmon R. - Stinky Sp.	SawA	482,181	1/1/2025	414,484	403,000	4.5	49,090	Oakley Reservoir	4/7-4/11/25	406,200	4.5
MVFH	Pahsimeroi Weir	USRB	520,837	1/1/2025	447,185	434,000	4.5	18,240	Oakley Reservoir	3/31-4/4/25	438,200	4.5
MVFH	Yankee Fork	USRB	517,859	1/1/2025	445,729	434,000	4.5	17,420	Oakley Reservoir	4/17-4/24/25	436,800	4.5
Totals			1,854,049		1,594,230	1,550,000		106,660			1,562,300	
NSFH	Pahsimeroi Weir	PahA	965,950	1/1/2025	818,322	800,000	4.5	44,495	Salmon Falls Creek Reservoir	4/3-4/17/25	816,276	4.5
NSFH	Little Salmon R. - Stinky Sp.	PahA	276,619	1/1/2025	211,002	200,000	4.5	28,536	Salmon Falls Creek Reservoir	4/18-4/22/25	210,474	4.5
NSFH	Little Salmon R. - Stinky Sp.	OxbA	312,206	1/1/2025	257,253	250,000	4.5	38,586	Salmon Falls Creek Reservoir	4/23-4/25/25	256,610	4.5
NSFH	Snake R. Hells Canyon	OxbA	616,834	1/1/2025	564,125	550,000	4.5	21,483	Salmon Falls Creek Reservoir	3/24-4/2/25	562,714	4.5
Totals			2,171,609		1,850,702	1,800,000		133,100			1,846,074	
Grand Total			5,757,336		4,993,691	4,910,000		306,890			4,954,374	

¹ HNFH SAW-A PRAS were released to Salmon Falls Creek Reservoir 10/1/2024 as juveniles.

Table 1.2b. BY 2024 Steelhead Inventory to Date by Mark Type in 2025

Hatchery	Release Site	Stock	Inventory to Date						PIT Tags				
			Date	Total	Adipose Fin Clip		No Clip		Total # Tags ²	Funding Source ³			
					No CWT	CWT	CWT	No CWT		CSS	LSRCP	IPC	USFWS
HNFH	Sawtooth Weir	SawA	1/1/2025	1,502,379	1,502,379				8,604	2,600	6,000		
HNFH	Sawtooth Weir (PRAS Eval) ¹	SawA	1/1/2025	-					-				
HNFH	E. Fork Salmon R. - Upper	EFNat	1/1/2025	46,380			46,380		8,591	2,600	6,000		
Totals				1,548,759	1,502,379	-	46,380	-	17,195	5,200	12,000	-	-
MVFH	Sawtooth Weir	SawA	1/1/2025	286,832	286,832				5,699	5,700			
MVFH	Little Salmon R. - Stinky Sp.	SawA	1/1/2025	414,484	414,484				4,398	4,400			
MVFH	Pahsimeroi Weir	USRB	1/1/2025	447,185			447,185		11,393	3,400	8,000		
MVFH	Yankee Fork	USRB	1/1/2025	445,729	445,729				13,298	5,300	8,000		
Totals				1,594,230	1,147,045	-	447,185	-	34,788	18,800	16,000	-	-
NSFH	Pahsimeroi Weir	PahA	1/1/2025	818,322	818,322				9,000	3,000		6,000	
NSFH	Little Salmon R. - Stinky Sp.	PahA	1/1/2025	211,002	211,002				2,299	1,800		500	
NSFH	Little Salmon R. - Stinky Sp.	OxbA	1/1/2025	257,253	257,253				2,800	2,300		500	
NSFH	Snake R. Hells Canyon	OxbA	1/1/2025	564,125	564,125				8,597	2,600		6,000	
Totals				1,850,702	1,850,702	-	-	-	22,696	9,700	-	13,000	-
Grand Total				4,993,691	4,500,126	-	493,565	-	74,679	33,700	28,000	13,000	-

¹ HNFH SAW-A PRAS were released to Salmon Falls Creek Reservoir 10/1/2024 as juveniles.

² Represents actual number tagged if tags have already been applied at the time of this report

³ Represents number of tags paid for by each agency. Sum total may not equal "Total # Tags" for locations where tagging has already occurred

See **Table 1.1** for BY 2025 Steelhead Egg box transfers in 2025

1.2.2. Releases in 2025 (Smolt BY 2024, Egg Box BY 2025) - Narrative

Here are examples of things managers talk about for each release group, if there are departures from the norm (i.e., SOP). If no departure from the norm, enter NC for “No Change”.

- Smolt/Egg Release Targets. Were you below goal? Was your size at release different from the SOP target? Did you depart from the mark plan?
- Fish/Egg Health- any epizootic history, anti-biotic treatments, was production culled at any point
- Transportation/Releases- e.g. timing, trucking issues, site access etc.

Release Location	Plan for 2025		Changes/Conditions that Occurred 2024-Early 2025		
	Release Target Smolt BY24, Egg BY25	Transport/Release Smolt BY24, Egg BY25	Fish Feeding BY24	Fish/Egg Health BY24	Marking BY24
<i>Niagara Springs Fish Hatchery (SOP Section 1.2)</i>					
Pahsimeroi Weir (PahA)	Decrease BY25 eyed egg request by 32,000 eggs.	Transport company switched to Bower’s Chopping after sale of Neil Ring Trucking.	Switched to Skretting 4.5 float feeding due to availability.	Cold Water in rcwy 18, 14.	NC
L. Salmon R. Stinky Springs (PahA/OxbA)	Decrease BY25 eyed egg request by 35,000 eggs. (10k OxbA and 25k PahA)	Transport company switched to Bower’s Chopping after sale of Neil Ring Trucking.	Switched to Skretting 4.5 float feeding due to availability.		NC
Snake R. Hells Canyon (OxbA)	NC	Transport company switched to Bower’s Chopping after sale of Neil Ring Trucking.	Switched to Skretting 4.5 float feeding due to availability.	Cold Water in vats 2, 9 and 11, Rcwy 2.	NC
<i>Pahsimeroi Fish Hatchery - Egg transfers to SBT - BY 2025 (SOP Sections 1.4, 1.7 and 1.10)</i>					
Yankee Fork (USRB/SawA)	NC	NC			
Indian Creek (PahA)	NC	NC			
Panther Creek (PahA)	NC	NC			
<i>Hagerman National Fish Hatchery (SOP Section 1.5)</i>					
East Fork Weir (EFnat)	BY24 Smolt - below release goal due to a few dead trays. Brood was met, eye up was low.	NC	NC	ICH detected 9/13/24	RCWY A1 was too small to CWT, so marking crew came back in October to CWT.

Release Location	Plan for 2025		Changes/Conditions that Occurred 2024-Early 2025		
	Release Target Smolt BY24, Egg BY25	Transport/Release Smolt BY24, Egg BY25	Fish Feeding BY24	Fish/Egg Health BY24	Marking BY24
Sawtooth Weir (SawA)	No PRAS fish to be released BY 24, they were released into non-anadromous waters	No PRAS fish to be released BY24	NC	ICH detected 9/13/24	NC
<i>Magic Valley Fish Hatchery (SOP Section 1.6)</i>					
Sawtooth Weir (SawA)	NC	Transport company switched to Bower's Trucking LLC after sale of Niel Ring Trucking	Aquaflor Med Feed fed to Vats 17 & 18 for 10-days	Vats 17 & 18 Confirmed CWD	NC
L. Salmon R. Stinky Springs (SawA)	NC	Transport company switched to Bower's Trucking LLC after sale of Niel Ring Trucking	NC	NC	NC
Pahsimeroi Weir (USRB)	NC	Transport company switched to Bower's Trucking LLC after sale of Niel Ring Trucking	NC	NC	NC
Yankee Fork (USRB)	NC	Transport company switched to Bower's Trucking LLC after sale of Niel Ring Trucking	NC	NC	NC

1.3. Trap Operations and Production Planning for 2025 (Smolt BY 2025, Egg Box BY 2025)

1.3.1. Trap Operations and Production Planning for 2025 (Smolt BY 2025, Egg Box BY 2025) – TOTALS

Table 1.3a. Steelhead Projected BY 2025 Smolt Production Goals for Release in 2026

Hatchery	Release Site	Stock	Smolt Release Goals
HNFH	Sawtooth Weir	SawA	1,410,000
	E. Fork Salmon R. - Upper	EFNat	60,000
Total			1,470,000
MVFH	Sawtooth Weir	SawA	279,000
	Little Salmon R. - Stinky Sp.	SawA	403,000
	Pahsimeroi Weir	USRB	434,000
	Yankee Fork	USRB	434,000
Total			1,550,000
NSFH	Pahsimeroi Weir	PahA	800,000
	Little Salmon R. - Stinky Sp.	PahA	200,000
	Little Salmon R. - Stinky Sp.	OxbA	250,000
	Snake R. Hells Canyon	OxbA	550,000
Total			1,800,000
Grand Total			4,820,000

Table 1.3b. Steelhead Spawning for BY 2025 - Based on Brood Calculator

Green Egg Goal					Spawning Goal				Broodstock Trapping Goals										
Spawning Facility	Brood Source	Rearing Hatchery	Release Site	Green Egg Goal	Brood Source	Rearing Hatchery	Fecundity	Spawn Goal	Brood Source	Rearing Hatchery	Projected Return to LGD ⁴	Trapping period		Trapping Goal to meet broodstock needs ¹					
								Females				Total	Season	Dates	Female	Male ³	Total		
SFH	SawA	HNFH	Sawtooth Weir	1,704,396	SawA	HNFH	5,445	314	SawA	HNFH	13,041	Spring 2025	March - April	314	314	628			
		MV FH	Sawtooth Weir	364,992		MV FH	5,445	68		MV FH				68	68	136			
			Little Salmon R. - Stinky Sp.	527,211			5,445	97						97	97	194			
EFSR Sat.	EFNat	HNFH	E. Fork Salmon R. - Upper	83,360	EFNat	HNFH	5,775	15	EFNat	HNFH	291	Spring 2025	March - April	15	15	30			
PFH	PahA	NSFH	Pahsimeroi Weir	1,122,064	PahA	NSFH	6,200	181	PahA	NSFH	4,277	Spring 2025	2/24 - 4/30/2025	181	181	362			
			Little Salmon R. - Stinky Sp.	280,516			6,200	46						46	46	92			
		PFH	SBT Egg Box-Panther Creek ⁵	375,000		PFH	6,200	61		PFH				61	61	122			
			SBT Egg Box-Indian Creek ⁵	250,000			6,200	41						41	41	82			
	USRB ²	MV FH	Pahsimeroi Weir	574,074	USRB	MV FH	6,500	89	USRB	MV FH	3,049	Spring 2025	2/24 - 4/30/20205	94	62	157			
			Yankee Fork	574,074			6,200	93						98	65	164			
		PFH	SBT Egg Box-Yankee Fork	595,238		PFH	6,500	92		PFH				97	65	162			
OFH	OxbA	NSFH	Little Salmon R. - Stinky Sp.	355,305	OxbA	NSFH	6,076	59	OxbA	NSFH	3,627	fall	11/5 - 11/26/24	289	289	579			
			Snake R. Hells Canyon	781,671			6,076	129				spring	tent. 4/1 - 4/2/25						

¹ Broodstock trapping need is dictated by number of females needed

² Sequence of priority for USRB eggs: Pahsimeroi Weir, Yankee Fork Salmon River, Yankee Fork Egg Box Program.

³ This is the # of Males collected while getting the # of Females needed, based on % of F in Broodstock

⁴ Projected Return to LGD includes only 2-ocean and 3-ocean adults for USRB.

Table 1.3c. BY2025 Steelhead adult female broodstock acquisition schedules for hatchery programs.

Season	Week of	Hells Canyon Trap		Pahsimeroi Fish Hatchery				Sawtooth Fish Hatchery		East Fork Salmon River Satellite	
		OxbA ¹		PahA		USRB		SawA		EFNat	
		Wkly	Cum	Wkly	Cum	Wkly	Cum	Wkly	Cum	Wkly	Cum
Fall 2024	Oct	0	0	0	0	0	0	0	0	0	0
	Nov	289	289	0	0	0	0	0	0	0	0
	Dec	0	289	0	0	0	0	0	0	0	0
Spring 2025	13-Feb	0	289	0	0	0	0	0	0	0	0
	20-Feb	0	289	0	0	0	0	0	0	0	0
	27-Feb	0	289	0	0	0	0	0	0	0	0
	6-Mar	0	289	0	0	0	0	0	0	0	0
	13-Mar	0	289	0	0	0	0	0	0	0	0
	20-Mar	0	289	0	0	0	0	0	0	0	0
	27-Mar	0	289	73	73	15	15	37	37	0	0
	3-Apr	72	362	33	106	45	60	158	194	0	0
	10-Apr	0	362	64	170	75	136	142	337	0	0
	17-Apr	0	362	64	234	45	181	63	399	3	3
	24-Apr	0	362	63	297	11	192	80	479	7	10
	1-May	0	362	32	329	0	192	0	479	5	15
	8-May										
	15-May										

	OxbA		PahA		USRB		SawA		EFNat	
Total Females to Trap (from Brood Calculator)	289		329		192		479		15	

¹ The sum of OxbA adult female broodstock acquisition values exceeds the Total Females to Trap in the Brood Calculator to account for additional fish trapped during the spring trapping season.

	Proportion of brood acquisition over season				
	OxbA	PahA	USRB	SawA	EFNat
Oct	0	0	0	0	0
Nov	1	0	0	0	0
Dec	0	0	0	0	0
13-Feb	0	0	0	0	0
20-Feb	0	0	0	0	0
27-Feb	0	0	0	0	0
6-Mar	0	0	0	0	0
13-Mar	0	0	0	0	0
20-Mar	0	0	0	0	0
27-Mar	0.00	0.22	0.08	0.08	0.00
3-Apr	0.25	0.10	0.24	0.33	0.00
10-Apr	0.00	0.19	0.39	0.30	0.00
17-Apr	0.00	0.19	0.24	0.13	0.23
24-Apr	0.00	0.19	0.06	0.17	0.46
1-May	0.00	0.10	0.00	0.00	0.31

Table 1.3d. Steelhead Spawning for BY 2026 - Based on Brood Calculator

Green Egg Goal					Spawning Goal					Broodstock Trapping Goals						
Spawning Facility	Brood Source	Rearing Hatchery	Release Site	Green Egg Goal	Brood Source	Rearing Hatchery	Fecundity	Spawn Goal		Brood Source	Rearing Hatchery	Trapping period		Trapping Goal ¹		
								Females	Males			Season	Dates	Female	Male ²	Total
OFH	OxbA	NSFH	Little Salmon R. - Stinky Sp.	355,305	OxbA	NSFH	6,076	59	59	OxbA	NSFH	fall/spring	11/5-11/26/25 and 4/1-4/2/26	289	289	579
			Snake R. Hells Canyon	781,671			6,076	129	129							

¹ Broodstock trapping need is dictated by number of females needed

² This is the # of Males collected while getting the # of Females needed, based on % of F in Broodstock

Table 1.3e. BY2026 Steelhead adult female broodstock acquisition schedule for hatchery programs.

Season	Date	Hells Canyon Trap			Proportion of brood acquisition over season
		OxbA ¹			
		Wkly	Cum		
Fall 2025	Oct	0	0	Oct	0
	Nov	289	289	Nov	1
	Dec	0	289	Dec	0

OxbA
Total Females to Trap (from Brood Calculator)
289

¹ The sum of OxbA adult female broodstock acquisition values exceeds the Total Females to Trap in the Brood Calculator to account for additional fish trapped during the spring trapping season.

1.3.2. Trap Operations and Production Planning for 2025 (Smolt BY 2025, Egg Box BY 2025) – NARRATIVE

Here are examples of things managers were instructed to discuss for each release group, if there are departures from the norm (i.e., SOP). If no departure from the norm, enter NC for “No Change”.

Rearing Location	Plan for 2025 (BY 2025)				
	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults
<i>Hells Canyon Trap/Oxbow Hatchery (Fall 2024-Spring 2025) (SOP Section 1.3)</i>					
Niagara Springs (OxbA)	NC	NC	trapped 600 adults which deviates from broodstock calculator of 579	NC	NC
<i>Pahsimeroi Weir (SOP Section 1.4)</i>					
Niagara Springs (PahA)	NC	NC	Reduced number of trapped females from 227 by 9 to account for reduced request	NC	Panther creek nutrient enhancement again.
SBT Egg Box (PahA)	NC	NC	NC	NC	NC
SBT Egg Box (USRB)	NC	NC	NC	NC	NC
Magic Valley (USRB)	NC	NC	NC	NC	Panther creek nutrient enhancement again.
RBT Program (PahA)	NC	NC	NC	See SOP 1.1.10 for details	NC
<i>Sawtooth and East Fork Weirs (SOP Sections 1.7 and 1.8)</i>					
Hagerman National (EFNat)					
Hagerman National (SawA)	NC	NC	NC	NC	NC
Magic Valley (SawA)	NC	NC	NC	NC	NC

Rearing Location	Plan for 2025 (BY 2025)				
	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults
SBT Egg Box (SawA)	NC	NC	NC	NC	NC
RBT Program (SawA)	NC	NC	NC	See SOP 1.1.10 for details	NC

1.4. Marking and Rearing Plan for 2025 (Smolt BY 2025)

1.4.1. Marking and Rearing Plan for 2025 (Smolt BY 2025) – TOTALS

Table 1.4a. Steelhead Projected marking of BY 2025 Production for release in 2026

Hatchery	Release Site	Stock	Smolt Release Goals	Projected Marking				PIT Tags			
				Adipose Fin Clip		No Clip		Total # Tags	Funding Source		
				No CWT	CWT	CWT	No CWT		CSS	LSRCP	IPC
HNFH	Sawtooth Weir	SawA	1,410,000	1,430,000				8,600	2,600	6,000	
	E. Fork Salmon R. - Upper	EFNat	60,000			60,000		8,600	2,600	6,000	
Totals			1,470,000	1,430,000	-	60,000	-	17,200	5,200	12,000	-
MVFH	Sawtooth Weir	SawA	279,000	288,000				5,700	5,700		
	Little Salmon R. - Stinky Sp.	SawA	403,000	416,000				4,400	4,400		
	Pahsimeroi Weir	USRB	434,000			448,000		11,400	3,400	8,000	
	Yankee Fork	USRB	434,000	448,000				13,300	5,300	8,000	
Totals			1,550,000	1,152,000	-	448,000	-	34,800	18,800	16,000	-
NSFH	Pahsimeroi Weir	PahA	800,000	816,000				9,000	3,000		6,000
	Little Salmon R. - Stinky Sp.	PahA	200,000	212,000				2,300	1,800		500
	Little Salmon R. - Stinky Sp.	OxbA	250,000	258,000				2,800	2,300		500
	Snake R. Hells Canyon	OxbA	550,000	566,000				8,600	2,600		6,000
Totals			1,800,000	1,852,000	-	-	-	22,700	9,700	-	13,000
Grand Totals			4,820,000	4,434,000	-	508,000	-	74,700	33,700	28,000	13,000

1.4.2. Marking and Rearing Plan for 2025 (Smolt BY 2025) – NARRATIVE

Here are examples of things managers were instructed to discuss for each release group, if there are departures from the norm (i.e., SOP). If no departure from the norm, enter NC for “No Change”.

- Fish Health - anticipated changes to normal fish health sampling or treatments
- Fish feeding - changes of diets of feed manufacturer, growth regimes etc.
- Rearing conditions - incubation, water temp, flow, rearing density changes
- Marking - e.g. changes to schedules, fish handling or movement, raceway loading for PBT, %PBT etc.

Release Location	Plan for 2025 (BY 2025)			
	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking
<i>Niagara Springs Fish Hatchery (SOP Section 1.2)</i>				
L. Salmon R. Stinky Springs (OxbA)	NC	NC	NC	NC
Snake R. Hells Canyon (OxbA)	NC	NC	NC	NC
L. Salmon R. Stinky Springs (PahA)	NC	NC	NC	NC
Pahsimeroi Weir (PahA)	NC	NC	NC	NC
<i>Hagerman National Fish Hatchery (SOP Section 1.5)</i>				
East Fork Weir (EFnat)	NC	NC	NC	We cannot receive eggs any later than approx June 10th for them to go through the marking trailer
Sawtooth Weir (SawA)	NC	NC	NC - PRAS for BY25??	NC - PRAS for BY25?
<i>Magic Valley Fish Hatchery (SOP Section 1.6)</i>				
Sawtooth Weir (SawA)	NC	NC	NC	NC
L. Salmon R. Stinky Springs (SawA)	NC	NC	NC	NC

Release Location	Plan for 2025 (BY 2025)			
	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking
Pahsimeroi Weir (USRB)	NC	NC	NC	NC
Yankee Fork Salmon R., Lower (USRB)	NC	NC	NC	NC

2. Spring/Summer Chinook

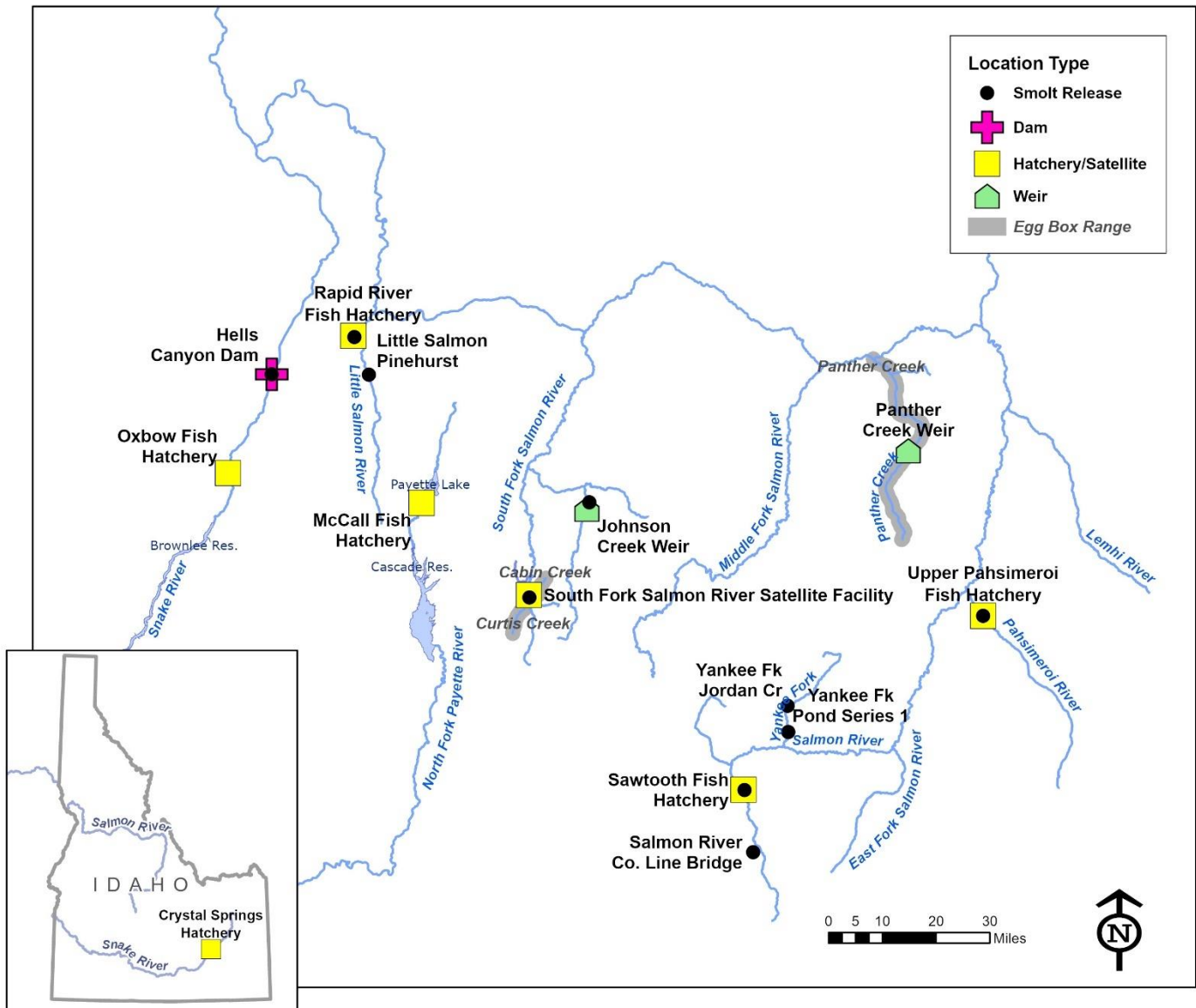


Figure 2.1. Spring/Summer Chinook salmon hatchery facilities and smolt release and egg box locations.

Table 2.1. Sp/Su Chinook Release Goals.

Smolts

Release Program	Release Site	Rearing Facility	Stock	BY2023 Smolt Release Goal
IPC / IDFG	Rapid River Hatchery	RRFH	RapidR	2,650,000
	Hells Canyon		RapidR	350,000
Total				3,000,000
LSRCP / IDFG	Salmon R. - Co. Line Br. - Integrated	SFH	USRInt	250,000
	Sawtooth Weir -Segregated		USRSeg	1,450,000
	Yankee Fork		USRSeg	300,000
	Yankee Fork (sub-yearling) ¹	Irrigon	USRSeg	0
Total				2,000,000
IPC / IDFG	Pahsimeroi Weir - Integrated	PFH	PahInt	65,000
	Pahsimeroi Weir - Segregated		PahSeg	935,000
Total				1,000,000
LSRCP / IDFG	SFSR Knox Br. - Integrated	McFH	SFSRInt	150,000
	SFSR Knox Br. - Segregated		SFSRSeg	850,000
NPT	Johnson Creek		Johnson C	150,000
Total				1,150,000
Grand Total				7,150,000

¹ No goal specified. Fish were reared opportunistically at Irrigon to evaluate performance of sub-yearling release strategy in Yankee Fork.

Eggs

Program	Release Location	Hatchery Egg Source	Stock	Green Egg Target	Eyed Egg BY2025 Goal	Smolt BY2025 Release Goal
Egg Box Release						
SBT Eggbox	Curtis/Cabin Creek	McFH	SFSRSeg	344,372	300,000	NA
SBT Eggbox ¹	Panther Creek	PFH/Panther Cr.	PahSeg/Panther Cr	918,326	800,000	NA

¹ Pahsimeroi should have capacity to incubate 800K eggs with stacks to be acquired from Oxbow rebuild

2.1. Timeline and Flowchart for Spring/Summer Chinook Production

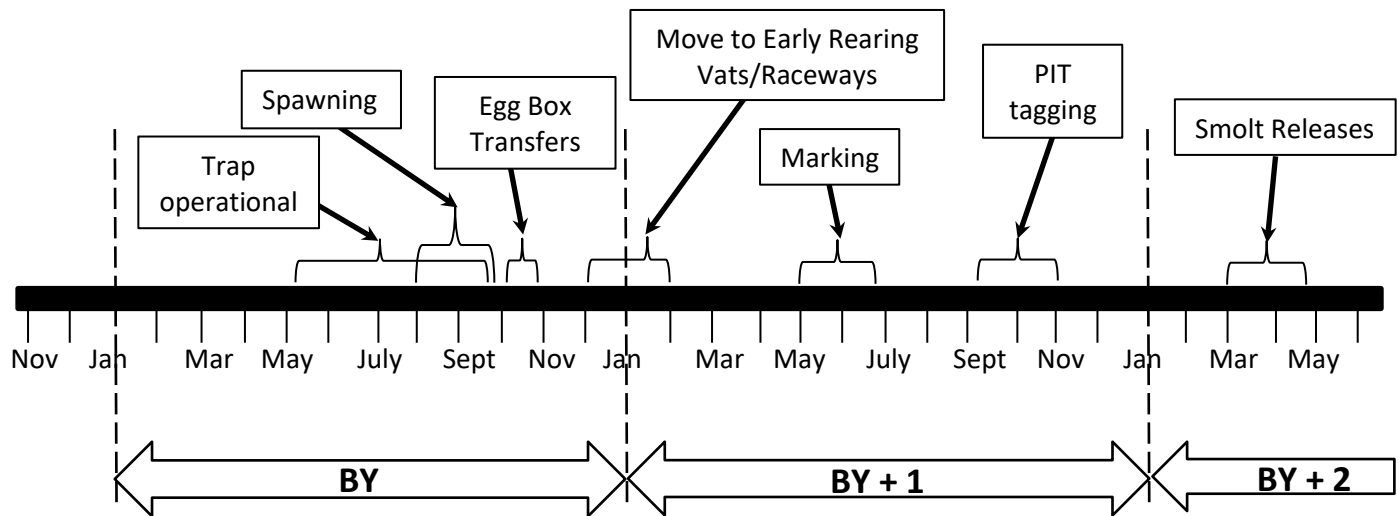


Figure 2.2. Timeline for Spring/Summer Chinook Production. Date ranges are shown to include all facilities' operations.

CHINOOK

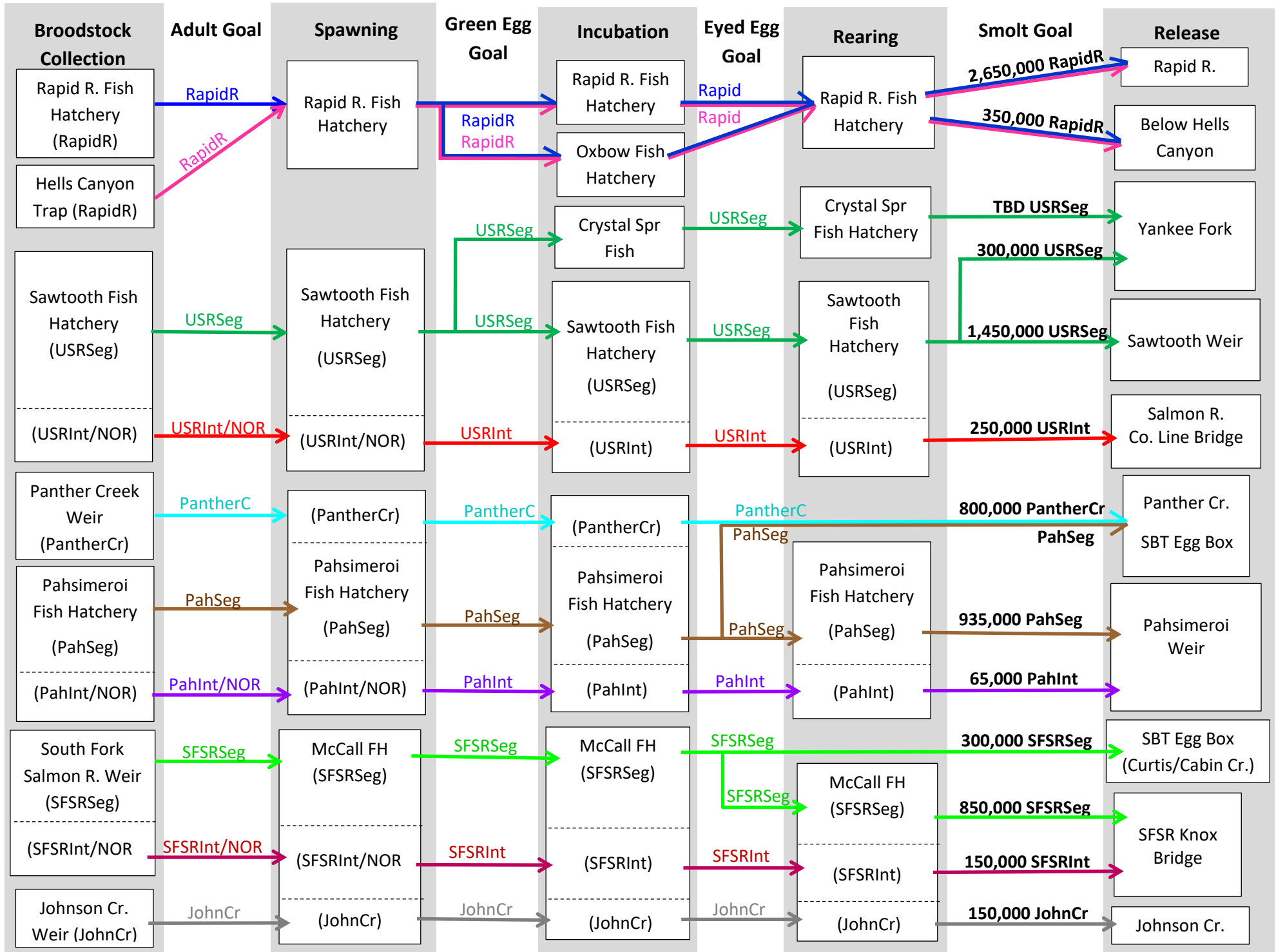


Figure 2.3. Fish and Egg movements for Sp and Su Chinook. Numbers reflect 2025 releases.

2.2. Releases in 2025 (Smolt BY 2023, Egg Box BY 2025)

2.2.1. Releases in 2025 (Smolt BY 2023, Egg Box BY 2025) – Totals

Table 2.2a. BY2023 SMOLTS - Sp/Su Chinook Salmon inventories by life stage , smolts release goals and projected releases in 2025.

Hatchery	Release Site	Stock	Inventory To Date		Release Goals		Projected Smolt Release		
			Date	Number	Number	Size (FPP)	Dates	Number	Size (FPP)
RRFH	Rapid River Hatchery	RapidR	12/31/2024	3,189,000	2,650,000	20	3/15 - 4/25/25	2,700,000	19.0
	Hells Canyon	RapidR			350,000	20	3/17 - 3/20/25	480,000	19.0
Total				3,189,000	3,000,000			3,180,000	
SFH	Salmon R. - Co. Line Br. - Integrated	USRInt	11/30/2024	236,306	250,000	18	4/2/25	236,000	18.0
	Sawtooth Weir -Segregated	USRSeg	11/30/2024	1,795,888	1,450,000	18	4/2-4/3/25	1,795,580	18.0
	Yankee Fork	USRSeg	11/30/2024	358,317	300,000	18	3/14/25	358,000	18.0
Irrigon	Yankee Fork (sub-yearling) ¹	USRSeg			-	50	5/18/2024	43,401	50.0
Total				2,390,511	2,000,000			2,389,580	
PFH	Pahsimeroi Weir - Integrated	PahInt	1/31/2025	70,900	65,000	19	4/1 - 4/15	70,800	15.0
	Pahsimeroi Weir - Segregated	PahSeg	1/31/2025	1,022,000	935,000	19	4/1 - 4/15	1,021,000	15.0
Total				1,092,900	1,000,000			1,091,800	
McFH	SFSR Knox Br. - Integrated	SFSRInt	12/31/2024	148,772	150,000	19	4/14-4/18/25	148,742	19.0
	SFSR Knox Br. - Segregated	SFSRSeg	12/31/2024	924,101	850,000	19	4/14-4/18/25	924,026	19.0
	Johnson Creek	Johnson Cr	12/31/2024	104,874	150,000	19	4-7-25	103,122	19.0
Total				1,177,747	1,150,000			1,175,890	
Grand Total				7,850,158	7,150,000			7,837,270	

¹ No goal specified. Fish were reared opportunistically at Irrigon to evaluate performance of sub-yearling release strategy in Yankee Fork.

Table 2.2b. BY2023 SMOLTS for release in 2025 - Sp/Su Chinook Salmon Inventory to Date by Mark Type in 2025

Hatchery	Release Site	Stock	Inventory to Date						PIT Tags					
			Date	Total	Adipose Fin Clip		No Clip		Total # Tags	Funding Source ³				
					No CWT	CWT	CWT	No CWT		CSS	LSRCP	IPC	BPA	OTHER
RRFH ²	Rapid River Hatchery	RapidR	12/31/2024	3,189,000	2,589,094	119,906			51,990	32,000		20,000		
	Hells Canyon	RapidR	12/31/2024		480,000									
Totals				3,189,000	3,069,094	119,906	-	-	51,990	32,000	-	20,000	-	-
SFH	Salmon R. - Co. Line Br. - Integrated	USRInt	11/30/24	236,306			236,306		1,002		1,000			
	Sawtooth Weir -Segregated	USRSeg	11/30/24	1,795,888	1,676,294	119,594			18,897	5,700	13,200			
	Yankee Fork	USRSeg	11/30/24	358,317	239,674	118,643			8,495	700	7,800			
Irrigon	Yankee Fork (sub-yearling) ¹	USRSeg						43,401	5,000		5,000			
Totals				2,390,511	1,915,968	238,237	236,306	43,401	33,394	6,400	27,000	-	-	-
Pah	Pahsimeroi Weir - Integrated	PahInt	1/31/2025	70,900			70,900		1,000					1,000
	Pahsimeroi Weir - Segregated ²	PahSeg	1/31/2025	1,022,000	902,000	120,000			22,390	6,400		16,000		
Totals				1,092,900	902,000	120,000	70,900	-	23,390	6,400	-	16,000	-	1,000
McFH	SFSR Knox Br. - Integrated	SFSRInt	12/31/2024	148,772			148,772		25,992	26,000				
	SFSR Knox Br. - Segregated	SFSRSeg	12/31/2024	924,101	809,420	114,681			25,996	6,000	20,000			
	Johnson Creek	Johnson Cr.	12/31/2024	104,874			103,152	1,722	1,967				2,000	
Totals				1,177,747	809,420	114,681	251,924	1,722	53,955	32,000	20,000	-	2,000	-
Grand Total				7,850,158	6,696,482	592,824	559,130	45,123	162,729	76,800	47,000	36,000	2,000	1,000

¹ No goal specified. Fish were reared opportunistically at Irrigon to evaluate performance of sub-yearling release strategy in Yankee Fork. Marks/tags reflect total released in 2024.

² Total PIT tags (22,400) includes 1,000 tags for the indoor rearing evaluation.

³ Represents number of tags paid for by each agency. Sum total may not equal "Total # Tags" for locations where tagging has already occurred

See **Table 2.1** for BY 2025 Sp/Su Chinook salmon egg transfers to streamside egg boxes in 2025.

2.2.2. Releases in 2024 and 2025 (Smolt BY 2023, Sub-yearling BY 2023, Egg Box BY 2025) – Total

Here are examples of things managers were instructed to discuss for each release group, if there are departures from the norm (i.e., SOP). If no departure from the norm, enter NC for “No Change”.

- Smolt/Egg Release Targets- e.g. were you below goal, was your size at release different than SOP target etc.
- Fish/Egg Health- any epizootic history, anti-biotic treatments, was production culled at any point
- Transportation/Releases- e.g. timing, trucking issues, site access etc.

Release Location	Plan for 2025		Changes/Conditions that Occurred 2024-Early 2025		
	Release Target Smolt BY23, Egg BY25	Transport/Release Smolt BY23, Egg BY25	Fish Feeding BY23	Fish/Egg Health BY23	Marking BY23
<i>Rapid River Fish Hatchery (SOP Section 2.2)</i>					
Rapid River Hatchery (RapidR)	NC	NC	NC	NC	NC
Hells Canyon (RapidR)	NC	NC	NC	NC	NC
<i>McCall Fish Hatchery (SOP Sections 2.3, 2.4 and 2.9)</i>					
SFSR Knox Bridge (SFSRInt)	NC	NC	33% Low Phos Diet	Elevated <i>P. herbarum</i> related mortality	NC
SFSR Knox Bridge (SFSRSeg)	NC	NC	33% Low Phos Diet	Elevated <i>P. herbarum</i> related mortality	NC
Johnson Cr. (JohnCr)	BY23 release total ⅓ less than target due to disease and CWT tagging losses.	NC	33% Low Phos Diet	Significant loss of fish during early rearing due to <i>P. herbarum</i> .	Fish loss occurred during CWT marking due to water supply issue.
Curtis/Cabin Cr. Egg Box (SFSRSeg)	NC	NC			
<i>Pahsimeroi Fish Hatchery (SOP Section 2.5)</i>					
Pahsimeroi Weir Integrated (PahInt)	NC	NC	NC	Tested positive for BKD, No Clinical Signs to date. Late season Formalin treatment to handle fungus.	NC

Release Location	Plan for 2025		Changes/Conditions that Occurred 2024-Early 2025		
	Release Target Smolt BY23, Egg BY25	Transport/Release Smolt BY23, Egg BY25	Fish Feeding BY23	Fish/Egg Health BY23	Marking BY23
Pahsimeroi Weir Segregated (PahSeg)	Projected release is 105% of goal. Released 53,369 to Panther Creek July. On-site release 100%.	NC	NC	Tested positive for BKD, No Clinical Signs to date. Late season Formalin treatment to handle fungus.	NC
Panther Cr. Egg Box (PanthCr/PahSeg)	NC	NC			
<i>Sawtooth Fish Hatchery (SOP Sections 2.6 and 2.8)</i>					
Salmon R - Co Line Bridge Integrated (USRInt)	NC	NC	NC	NC	NC
Sawtooth Weir Segregated (USRSeg)	Due to excess brood, release goal was shifted to 2.4m	NC	NC	NC	NC
Yankee Fork (USRSeg)	Due to excess brood, release goal was shifted to 360K	NC	NC	NC	NC
<i>Irrigon Fish Hatchery</i>					
Yankee Fork Sub-yearling (USRSeg)	See Tables 2.2a and 2.2b for release totals in 2024	NC	NC	NC	NC

2.3. Trap Operations and Production Planning for 2025 (Smolt BY 2025)

2.3.1. Trap Operations and Production Planning for 2025 (Smolt BY 2025) – TOTALS

Table 2.3a. BY 2025 Sp/Su Chinook Smolt Production Goals for Release in 2027.

Hatchery	Release Site	Stock	2027 Smolt Release Goals
RRFH	Rapid River Hatchery	RapidR	2,650,000
	Hells Canyon	RapidR	350,000
Total			3,000,000
SFH	Salmon R. - Co. Line Br. - Integrated	USRInt	250,000
	Sawtooth Weir -Seg	USRSeg	1,450,000
	Yankee Fork	USRSeg	300,000
SFH/CSprFH	Yankee Fork (sub-yearling)	USRSeg	-
Total			2,000,000
PFH	Pahsimeroi Weir - Int	PahInt	65,000
	Pahsimeroi Weir - Seg	PahSeg	935,000
Total			1,000,000
McFH	SFSR Knox Br. - Int	SFSRInt	150,000
	SFSR Knox Br. - Seg	SFSRSeg	850,000
	Johnson Creek	JohnCr	150,000
Total			1,150,000
Grand Total			7,150,000

¹ Release goal is zero. Fish would be reared at Crystal Springs to evaluate performance of sub-yearling release strategy in Yankee Fork.

Table 2.3b. Sp/Su Chinook Egg Releases in 2025 and Egg Transfers used for BY 2025 Smolt Production (Release in 2027).

Program	Release Location	Hatchery Egg Source	Stock	Green Egg Target	Eyed Egg BY2025 Goal	Smolt BY2025 Release
Egg Box Release						
SBT Eggbox	Curtis/Cabin Creek	McFH	SFSRSeg	344,372	300,000	NA
SBT Eggbox ¹	Panther Creek	PAH/Panther Cr	Panther Cr.	918,326	800,000	NA

¹ Brood stock may be sourced from Panther Creek and transferred to the Pahsimeroi Hatchery in 2025.

Table 2.3c. BY2025 SMOLTS -Chinook Spawning for BY 2025 - Based on Brood Calculator.

Green Egg Goal					Spawning Goal						Broodstock Trapping Goals					
Spawning Facility	Stock	Rearing Hatchery	Release Site	Green Egg Goal	Fecundity	Spawn Goal						Projected		Trapping Goal ³		
						HORSeg ⁴		HORInt ⁵		NOR ⁶		LGD				
						Female	Male	Female	Male	Female	Male	HORseg ⁴	HORint ⁵	Female	Male	Total
RRFH	RapidR	RRFH	Rapid River Trap	4,020,629	3,500	1015	1015					7,521		1,080	1,080	2,447
			Hells Canyon Trap			135	135					1,382		144	144	
SFH	USRInt	SFH	Salmon R. - Co. Line Br. - Int ¹	304,367	4,350			0	0	70	70		270	72	72	145
	USRSeg	SFH	Sawtooth Weir - Seg	1,742,138	4,200	415	415					2,269		428	428	856
			Yankee Fork	360,442	4,200	86	86					273		89	89	178
PFH	PahInt	PFH	Pahsimeroi - Int ¹	80,033	4,500			1	2	17	16		76	21	21	42
	PahSeg	PFH	Pahsimeroi - Seg	1,266,376	4,500	282	282					461		332	332	664
			SBT Eggbox - Panther Cr. ²			TBD	TBD							TBD	TBD	0
SFSR	SFSRInt	McFH	SFSR - Int ^{1, 7}	202,572	3,800			5	6	49	48		176	59	59	119
	SFSRSeg	McFH	SFSR - Seg ⁷	1,262,699	3,800	333	333					2,671		364	364	728
			SBT Eggbox - Curtis/Cabin Cr. ⁷	344,372	3,800	91	91							101	101	203
	JohnCr	McFH		Johnson Creek ⁸	227,350	4,200					55	55			61	61

¹ Origin of broodstock for Integrated programs will be determined in-season based on abundance projections.

² Brood for these eggs are not included in stated brood goals and will come from fish trapped in excess of brood needs for the onsite smolt program.

³ Broodstock trapping need is dictated by number of females needed

⁴ HORSeg: Adult Hatchery Origin fish that are progeny of a Segregated program

⁵ HORInt: Adult Hatchery Origin fish that are progeny of an Integrated program

⁶ NOR: Adult Natural Origin fish

⁷ After fulfilling brood stock needs for integrated smolt production, prescribed sliding scale releases above weir to spawn, and segregated brood stock (up to 30%), eggs from integrated adults could be used to supply eggs for the egg box program.

⁸ Trapping Goal at Johnson Cr is for NOR fish.

2.3.2. Trap Operations and Production Planning for 2025 (Smolts BY 2025) – NARRATIVE

Here are examples of things managers were instructed to discuss for each release group, if there are departures from the norm (i.e., SOP). If no departure from the norm, enter NC for “No Change”.

Juvenile/Egg Release Location	Plan for 2025 (BY 2025)				
	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults
<i>Rapid River Fish Hatchery and Hells Canyon Traps (SOP Section 2.2)</i>					
Rapid River Hatchery (RapidR)	NC	NC	NC	Carcasses to NPT?	NC
Hells Canyon (RapidR)	NC	NC	NC	NC	no adults to RRFH and no adults for releases. Only C&S dispositions. jacks are OK for all distributions
<i>South Fork Salmon River and Johnson Creek Weirs (SOP Sections 2.3 and 2.4)</i>					
Johnson Cr. (JohnCr)	NC	NC	NC	NC	NC
SFSR Knox Bridge Integrated (SFSRInt)	NC	NC	NC	NC	NC
SFSR Knox Bridge Segregated (SFSRSeg)	NC	NC	NC	NC	NC
SBT Egg Box – Curtis/Cabin Cr. (SFSRSeg)	NC	NC	NC	NC	NC
<i>Pahsimeroi Fish Hatchery Trap (SOP Section 2.5)</i>					
Pahsimeroi Weir Integrated (PahInt)	Changing our Erythromycin injection to a different Product.	NC	NC	NC	NC

Juvenile/Egg Release Location	Plan for 2025 (BY 2025)				
	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults
Pahsimeroi Weir Segregated (PahSeg)	Changing our Erythromycin injection to a different Product.	NC	NC	NC	NC
SBT Egg Box - Panther Creek (PahSeg)	Changing our Erythromycin injection to a different Product.	NC	NC	NC	NC
<i>Sawtooth Fish Hatchery (SOP Sections 2.6, 2.7 and 2.8)</i>					
Salmon R - Co Line Bridge Integrated (USRInt)	NC	NC	NC	NC	NC
Sawtooth Weir Segregated (USRSeg)	NC	NC	NC	NC	NC
Yankee Fork (USRSeg)	NC	NC	NC	NC	NC

2.4. Early Rearing and Marking Plan for 2025 (Smolt BY 2024)

2.4.1. Early Rearing and Marking Plan for 2025 (Smolt BY 2024) – TOTALS

Table 2.4a. Sp/Su Chinook Projected Marking of BY 2024 juveniles to be marked in 2025 (released in 2026).

Hatchery	Release Site	Stock	Likely Marking Date(s)	Release Goals for 2026	Inventory to Date		Projected Release	Projected Marking				PIT Tags					
								Adipose Fin Clip		No Clip		Total # Tags	Funding Source				
					Date	Number		Number	No CWT	CWT	CWT		No CWT	CSS	LSRCP	IPC	BPA
RRFH	Rapid River Hatchery	RapidR	6/9 -	2,650,000	12/30/24	3,365,740	2,773,407	2,742,666	120,000			52,000	32,000		20,000		
	Hells Canyon	RapidR	6/27/25	350,000			350,000	350,000				-					
Totals				3,000,000		3,365,740	3,123,407	3,092,666	120,000	-	-	52,000	32,000	-	20,000	-	-
SFH	Salmon R.-Co. Line Br.-Int	USRIInt	5/27 - 6/5/25	250,000	1/7/25	261,679	243,361			250,000		1,000		1,000			
	Sawtooth Weir -Seg	USRSeg		1,450,000	1/7/25	1,923,472	1,788,829		120,000			18,900	5,700	13,200			
	Yankee Fork	USRSeg		300,000	1/7/25	379,307	360,341		120,000			8,500	700	7,800			
Crystal Spr	Yankee Fork (sub-yearling) ¹	USRSeg		-	1/31/25	48,531	43,401				5,000	5,000		5,000			
Totals				2,000,000		2,612,989	2,435,932	-	240,000	250,000	5,000	33,400	6,400	27,000	-	-	-
PFH	Pahsimeroi Weir - Int	PahInt	5/13 -	65,000	1/31/25	69,000	65,000			65,000		1,000					1,000
	Pahsimeroi Weir - Seg	PahSeg	5/18/25	935,000	1/31/25	761,000	750,000	641,000	120,000			22,400	6,400		16,000		
Totals				1,000,000		830,000	815,000	641,000	120,000	65,000	-	23,400	6,400	-	16,000	-	1,000
McFH	SFSR Knox Br. - Int	SFSRIInt	6/23 - 6/27/25	150,000	1/13/25	192,994	173,695			150,000		26,000	26,000				
	SFSR Knox Br. - Seg	SFSRSeg		850,000	1/13/25	1,045,988	941,389	821,389	120,000			26,000	6,000	20,000			
	Johnson Creek	JohnCr		150,000	1/13/25	171,491	154,342			154,342	-	2,000				2,000	
Totals				1,150,000		1,410,473	1,269,426	821,389	120,000	304,342	-	54,000	32,000	20,000	-	2,000	-
Grand Totals				7,150,000		8,219,202	7,643,765	4,555,055	600,000	619,342	5,000	162,800	76,800	47,000	36,000	2,000	1,000

¹ Release goal is zero. Fish are reared at Crystal Springs to evaluate performance of sub-yearling release strategy in Yankee Fork.

2.4.2. Early Rearing and Marking Plan for 2025 (Smolt BY 2024) – NARRATIVE

Here are examples of things managers were instructed to discuss for each release group, if there are departures from the norm (i.e., SOP). If no departure from the norm, enter NC for “No Change”.

- Juvenile Fish Health - observed fish health issues, what action was taken and how was the treatment implemented, anticipated changes to normal fish health sampling or treatments
- Fish feeding - changes of diets of feed manufacturer, growth regimes etc.
- Rearing conditions - incubation, water temp, flow, rearing density changes
- Marking - e.g. schedule changes, planned changes to fish handling or movement, marking schedule, raceway loading for PBT etc.
- Meets Release Target - . If projected marking lines up with the current inventory, then no comment is needed at this bullet (enter NC). If current inventory is 10% above or below the projected numbers, provide the projected release, % above/below then explain why.

Release Location	Plan for 2025 (BY 2024)				
	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking	Meets Release Target
<i>Rapid River Fish Hatchery (SOP Section 2.2)</i>					
Rapid River Hatchery (RapidR)	NC	NC	NC	NC	NC
Hells Canyon (RapidR)	NC	NC	NC	NC	NC
<i>McCall Fish Hatchery (SOP Section 2.3 and 2.4)</i>					
Johnson Cr. (JohnCr)	NC	Repeat Low Phos Diet	NC	NC	NC
Knox Bridge Integrated (SFSRInt)	NC	Repeat Low Phos Diet	NC	NC	NC
Knox Bridge Segregated (SFSRSeg)	NC	Repeat Low Phos Diet	NC	NC	NC
<i>Pahsimeroi Fish Hatchery (SOP Section 2.5)</i>					
Pahsimeroi Ponds Integrated (PahInt)	NC	NC	NC	NC	NC

Release Location	Plan for 2025 (BY 2024)				
	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking	Meets Release Target
Pahsimeroi Ponds Segregated (PahSeg)	NC	NC	Will repeat well water rearing trial with ~60K SEG smolts	120K CWT will be split 60K well water + 60K pond rearing. 1,000 fish in the well-water study group will be PIT tagged.	Final Rearing/Release will be determined at Marking. Projected 84% of requested release.
<i>Sawtooth Fish Hatchery (SOP Sections 2.6 and 2.8)</i>					
Salmon R - Co Line Bridge Integrated (USRInt)	NC	NC	Rebuilt two vats for additional rearing	NC	NC
Sawtooth Weir Segregated (USRSeg)	NC	NC	Rebuilt two vats for additional rearing	NC	NC
Yankee Fork (USRSeg)	NC	NC	Rebuilt two vats for additional rearing	NC	NC
<i>Crystal Springs Fish Hatchery (SOP Sections 2.6 and 2.8)</i>					
Yankee Fork Sub-yearling (USRSeg)					

3. Fall Chinook

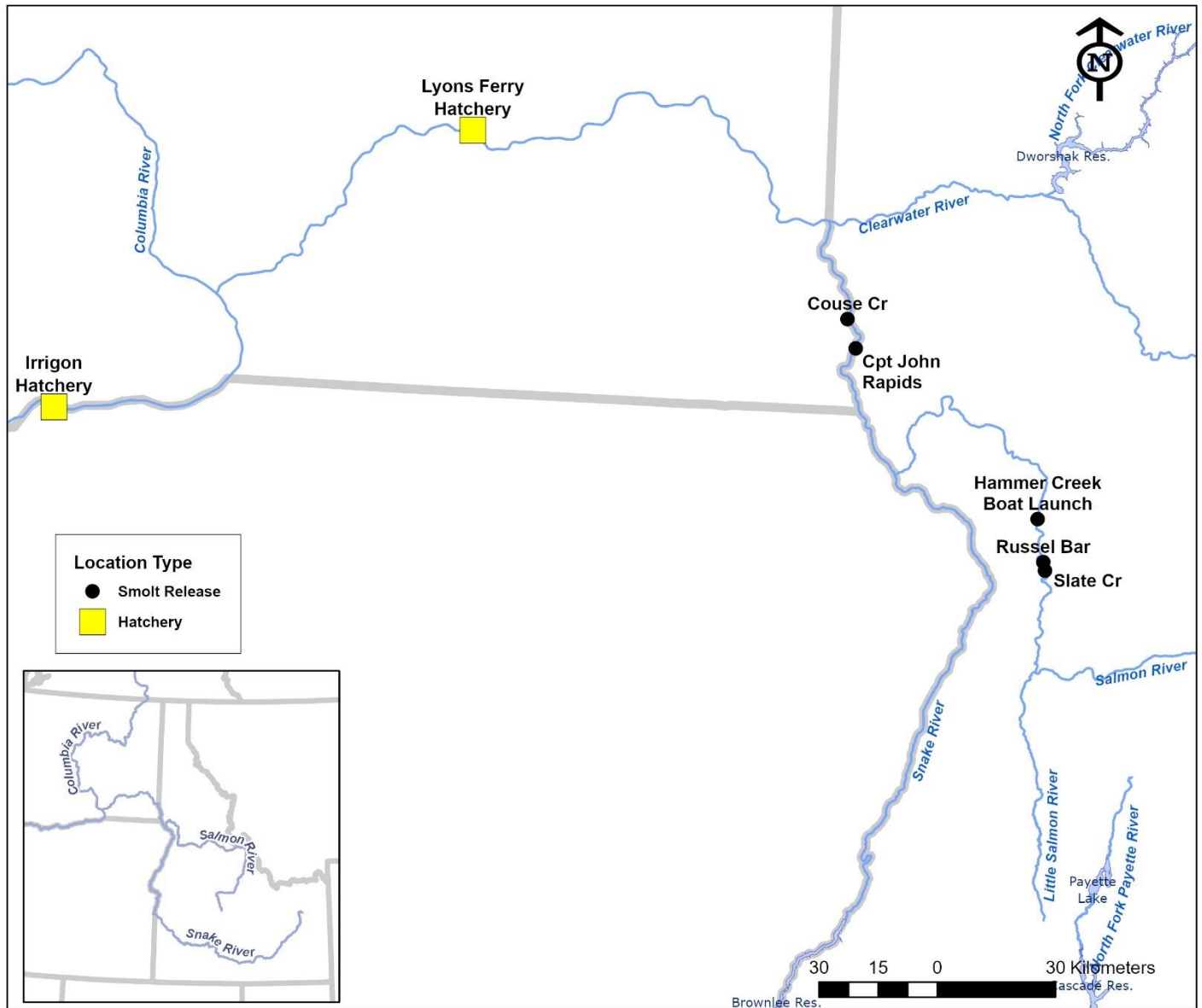


Figure 3.1. Fall Chinook Salmon facilities and smolt release locations.

Table 3.1. Fall Chinook Release Goals.

Hatchery	Release Site	Release Goals
IFH	Salmon R.-Hammer Cr	1,000,000
LFH/FCAP	Salmon R.-Russel Bar	600,000
LFH/FCAP	Salmon R.-Captain Johns	650,000
IFH	Salmon R.-Couse Creek	600,000

3.1. Releases in 2025 (Sub-Yearling BY 2024)

3.1.1. Releases in 2025 (Sub-Yearling BY 2024) – Totals

Table 3.2a. BY2024 Fall Chinook Sub-yearling Marking and Releases in 2025.

Hatchery	Release Site	Likely Release Date	Release Goals	Projected Actual Releases ¹					
				Total	Adipose Fin Clip		No Clip		PIT Tag
					No CWT	CWT	CWT	No CWT	
IFH	Salmon R.-Hammer Cr	5/13/25, 5/15/25	1,000,000	1,000,000	100,000	100,000		800,000	2,200
LFH/FCAP	Salmon R.-Russel Bar early ²	5/8/25	400,000	400,000		100,000		300,000	26,000
LFH/FCAP	Salmon R.-Russel Bar late ²	5/22/25	200,000	200,000		100,000		100,000	26,000
LFH/FCAP	Snake R.-Captain Johns early	5/9/25	450,000	450,000		100,000		350,000	2,200
LFH/FCAP	Snake R.-Captain Johns late	5/28/25	200,000	200,000		100,000		100,000	2,200
IFH	Salmon R.-Couse Creek	5/21/25	600,000	600,000	500,000	100,000			2,200

¹ Actual release number and dates are unknown at this time: see Lyons Ferry AOP for actual release numbers

² Released at Slate Creek boat ramp in 2025

3.1.2. Releases in 2025 (Sub-Yearling BY 2024) - Narrative

Here are examples of things managers talk about for each release group, if there are departures from the norm (i.e., SOP). If no departure from the norm, enter NC for “No Change”.

- Smolt Release Targets- e.g. Were you below goal? Was you size at release different than SOP target? Did you depart from the mark plan?
- Fish Health- any epizootic history, anti-biotic treatments, was production culled at any point
- Transportation/Releases- e.g. timing, trucking issues, site access etc.

Location	Smolt Release Target	Fish Health	Transportation/Releases	Marks/Tags
<i>Irrigon Fish Hatchery (IDFG) (SOP Section 3.1)</i>				
Salmon R. - Hammer Cr.	NC	NC	NC	reduced CWT from 200k to 100k. Added 100k AD-only to maintain the same mark rate
<i>Lyons Ferry Fish Hatchery (SOP Section ??)</i>				
Salmon R. - Russel Bar	NC	NC	Two releases, early and late released at Slate Creek Boat ramp	Reduced CWT from 200k to 100k. 300k UM/UT (increased from 200k)
Snake R. - Captain Johns	NC	NC	NC	Reduced CWT from 200k to 100k. 450k UM/UT (increased from 350k)
Couse Creek	new release - 600k	NC	NC	100k AD/CWT; 500k AD

3.2. Trap Operations and Production Planning for 2025 (Sub-Yearling BY 2025)

Refer to Lyons Ferry AOP

3.3. Marking and Rearing Plan for 2025 (Sub-Yearling BY 2024)

Refer to Lyons Ferry AOP

4. Sockeye

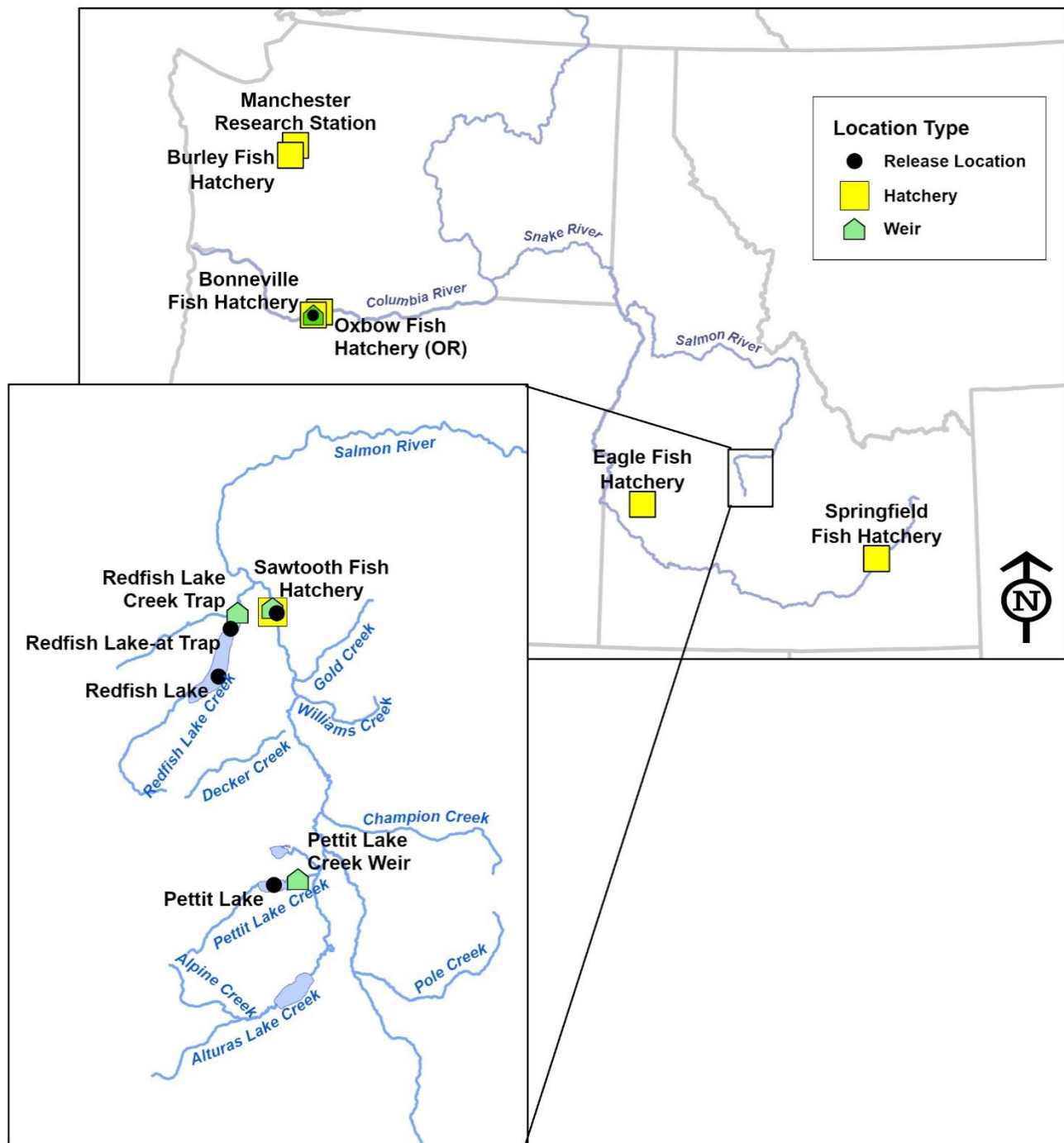


Figure 4.1. Sockeye salmon traps, hatchery facilities, and smolt and adult release locations.

Table 4.1. Sockeye 2025 Release Goals.

Rearing Facility	Release Site	Parent Stock	2025 Smolt Release Goal (BY 2023)
Springfield	Redfish Lake Cr. ¹	Snake R.	1,000,000
Oxbow FH (OR)	Tanner Creek 2	Snake R.	40,000
Grand Total			1,040,000

Rearing Facility	Release Site	Parent Stock	Brood Year	2025 Captive-Reared Minimum Adult Release
NOAA - Burley Creek	Redfish Lake	Snake R.	2020	-
	Redfish Lake	Snake R.	2021	50
	Redfish Lake	Snake R.	2022	100
	Pettit Lake	Snake R.	2022	100
Total				250
Eagle Fish Hatchery	Redfish Lake	Snake R.	2021	-
	Redfish Lake	Snake R.	2022	100
Total				100
Grand Total				350

¹ Smolts are acclimated at Sawtooth Fish Hatchery for ~2 weeks prior to release.

² Smolts are transferred to Bonneville FH and acclimated on Tanner Creek water before volitional release.

³ The minimum release target for the Sockeye captive broodstock program is 250 adults to Redfish Lake and 100 captive adults to Pettit Lake. Additionally, any anadromous adults that assign to Pettit Lake will be released to Pettit Lake.

4.1. Timeline and Flowchart for Sockeye Salmon Production

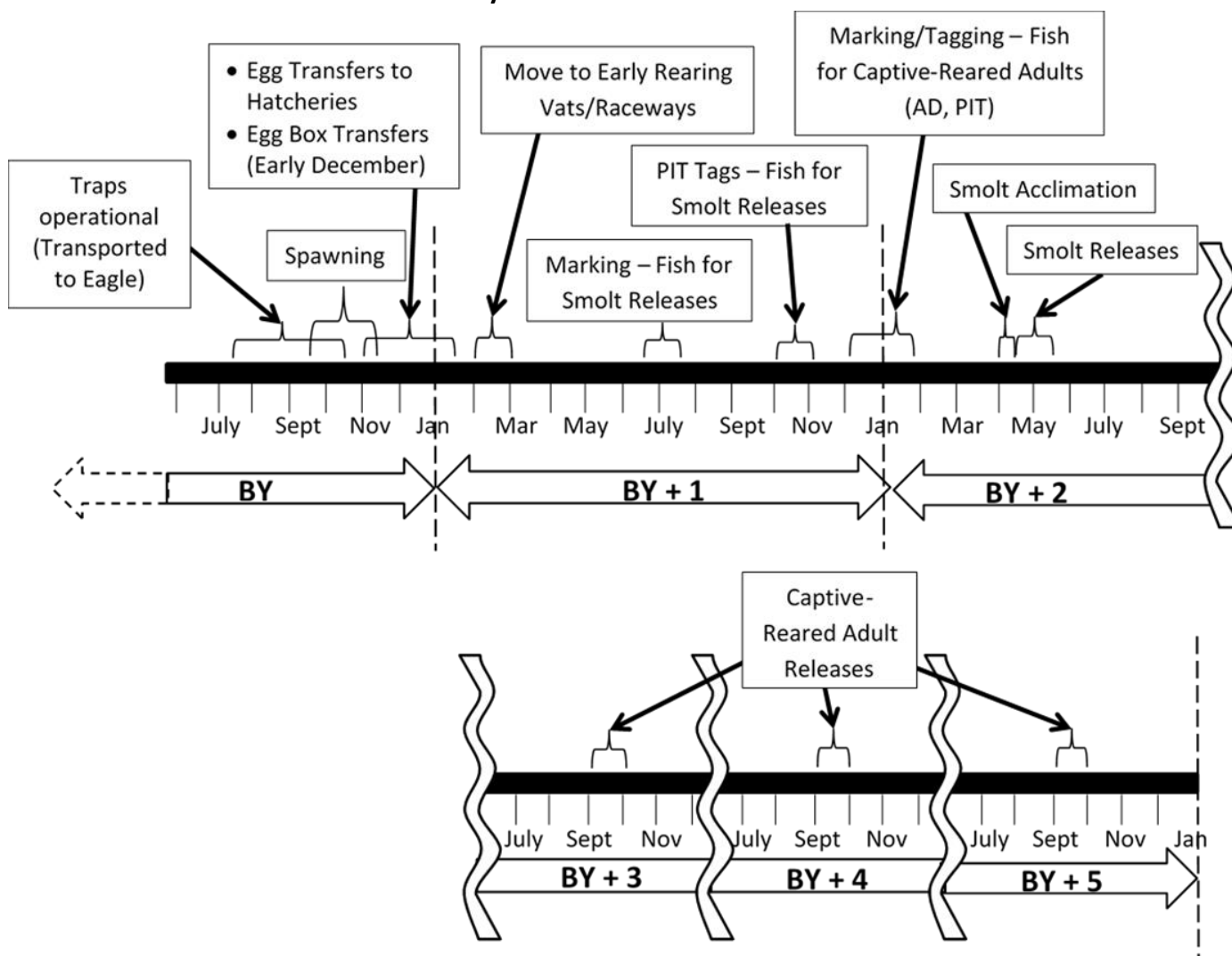


Figure 4.2. Timeline for Sockeye Salmon production. Date ranges are shown to include all facilities'

Sockeye

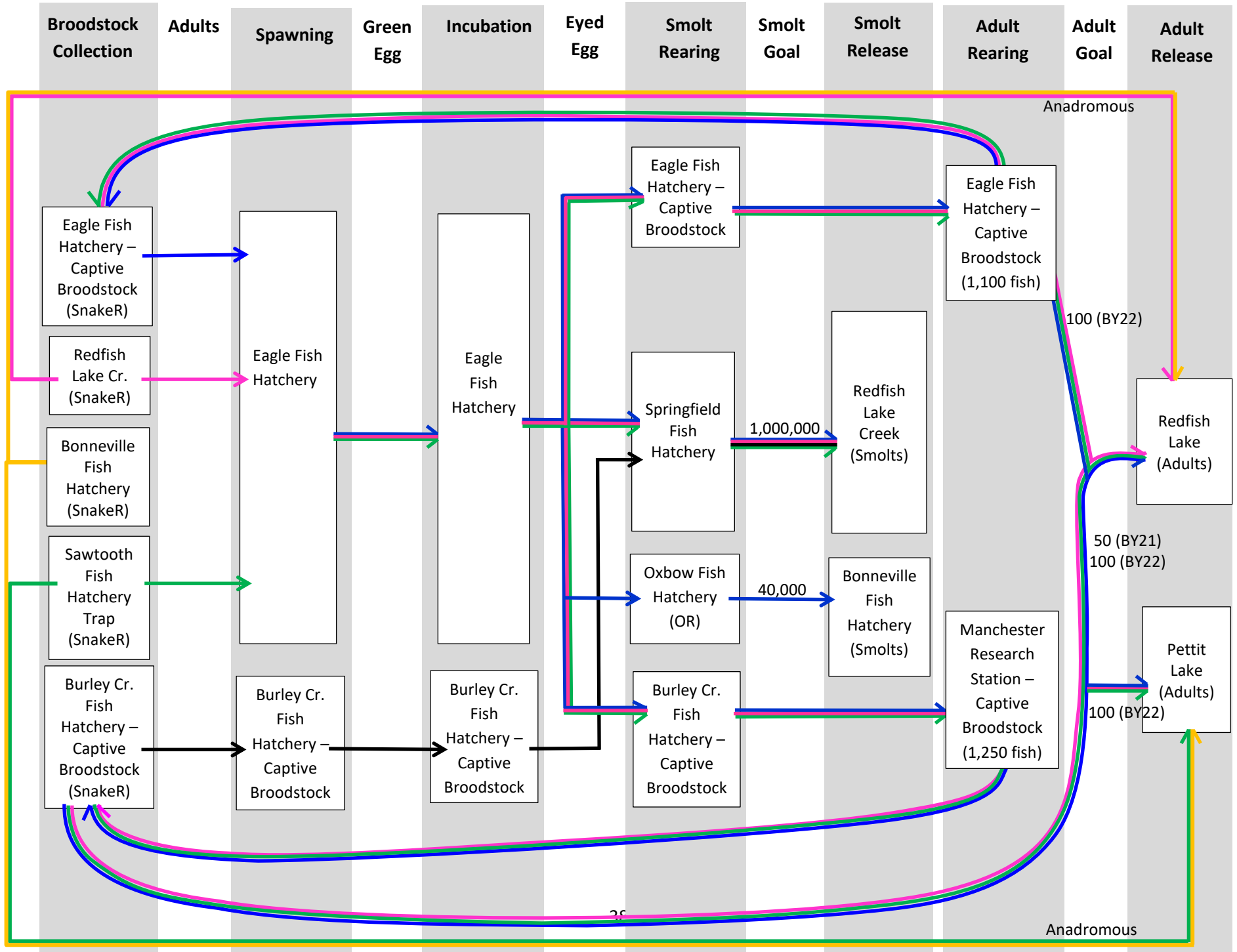


Figure 4.3. Fish and Egg movements for Sockeye. Release numbers reflect 2025 releases.

4.2. Releases in 2025 (Smolt BY23, Captive Adult BY22, BY21, BY20)

4.2.1. Releases in 2025 (Smolt BY23, Captive Adult BY22, BY21, BY20) – Totals

Table 4.2a. Sockeye Captive-Reared Adult Releases in 2025.

Hatchery	Brood year	Release Site	Stock	Likely Release Date	Captive Adult Release Goals ¹
NOAA - Burley Creek	2020	Redfish Lake	Snake R.	Sept.	-
	2021	Redfish Lake	Snake R.	Sept.	50
	2022	Redfish Lake	Snake R.	Sept.	100
	2022	Pettit Lake	Snake R.	Sept.	100
Total					250
Eagle	2021	Redfish Lake	Snake R.	Sept.	-
	2022	Redfish Lake	Snake R.	Sept.	100
Total					100
Grand Total					350

¹ All captive reared adults will be adipose clipped and PIT tagged prior to release

Table 4.2b. BY 2023 Sockeye Smolt Releases in 2025.

Hatchery	Release Site	Stock	Likely Release Date	Release Goals	Projected Actual Releases					PIT Tags		
					Total	Adipose Fin		No Clip		Total # Tags	Funding Source	
						No CWT	CWT	CWT	No CWT		CSS	BPA
Springfield	Redfish Lake Cr. ¹	Snake R.	5/6 - 5/8	1,000,000	851,319	851,319	0	0	0	58,790	39,785	19,005
Oxbow FH (OR)	Tanner Creek ²	Snake R.	5/6 - 5/8	40,000	42,000	0	42,000	0	0	0	0	0
Grand Total				1,040,000	893,319	851,319	42,000	0	0	58,790	39,785	19,005

¹ Smolts are acclimated at Sawtooth Fish Hatchery for ~2 weeks prior to release.

² Smolts are transferred to Bonneville FH and acclimated on Tanner Creek water before volitional release.

4.2.2. Releases in 2025 (Smolt BY23, Captive Adult BY22, BY21, BY20) – Narrative

Here are examples of things managers talk about for each release group, if there are departures from the norm (i.e., SOP). If no departure from the norm, enter NC for “No Change”.

- Smolt/Egg Release Targets- e.g. Were you below goal? Was you size at release different than SOP target? Did you depart from the mark plan?
- Fish/Egg Health- any epizootic history, anti-biotic treatments, was production culled at any point
- Transportation/Releases- e.g. timing, trucking issues, site access etc

Release Location	Plan for 2025		Changes/Conditions that Occurred 2024- Early 2025
	Release Target Smolt BY23, Adult BY22, BY21, BY20	Transport/Release Smolt BY23, Adult BY22, BY21, BY20	Fish/Egg Health BY24, BY23, BY22, BY21, BY20
<i>Eagle Fish Hatchery (SOP Section 4.3)</i>			
Redfish Lake – Adult Releases (SnakeR)	NC	NC	NC
Pettit Lake – Egg Releases (SnakeR)	NC	NC	NC
<i>Burley Creek Fish Hatchery (NOAA) (SOP Section 4.3)</i>			
Redfish Lake – Adult Releases (SnakeR)	NC	NC	NC
Pettit Lake - Adult Releases (Snake River)	NC	NC	NC
<i>Springfield Fish Hatchery (SOP Section 4.4)</i>			
Redfish Lake Creek– Smolt Releases (SnakeR)	BY23 - 851,319 anticipated 2025 release, below the 1,000,000 smolt release goal due to brood shortage.	NC	NC
<i>Oxbow/Bonneville Fish Hatcheries</i>			
Tanner Creek - Smolt Releases	Approximately 42,000 BY23 Sockeye smolts will be released from Bonneville FH in 2025.	BY23 juveniles reared at Oxbow FH were transferred to Bonneville FH in December 2024 for final rearing. Smolts will be acclimated on Tanner Cr. water before volitional release.	BY24 Sockeye juveniles currently rearing at Oxbow FH.

4.3. Trap Operations and Production Planning for 2025 (BY 2025 for Smolt and Captive Adult Programs)

4.3.1. Trap Operations and Production Planning for 2025 (BY 2025 for Smolt and Captive Adult Programs) – TOTALS

Table 4.3a. Sockeye Spawning for BY 2025.

Site	Stock	Type	Forecast return/ Available Broodstock	Trapping period	Broodstock Need ¹			
					M:F Ratio	Female	Male	Total
Redfish Lake	Snake R.	Anad	191	7/15 - 10/15/25	1:1	89	89	178
Pettit Lake	Snake R.	Anad	21	7/15 - 9/20/25	1:1	0	0	0
Eagle FH ²	Snake R.	Captive	1,300	NA	1:1	491	491	982
Burley Creek ²	Snake R.	Captive	750	NA	1:1	363	363	726
Grand Total			2262			943	943	1886

¹ Broodstock needs are estimates based on anadromous run forecast. Proportion of anadromous and captive broodstocks may be adjusted realtime based on actual number of anadromous Sockeye trapped.

² This number reflects estimated number of captive broodstock available for spawning.

4.3.2. Trap Operations and Production Planning for 2025 (BY 2025 for Smolt and Captive Adult Programs) – NARRATIVE

Here are examples of things managers were instructed to discuss for each release group, if there are departures from the norm (i.e., SOP). If no departure from the norm, enter NC for “No Change”.

Release Location	Plan for 2025 (BY 2025)					
	Adult Fish Health	Trap Ops	Forecast Returns	Broodstock Needs	Spawning protocol changes	Disposition of adults
<i>Eagle Fish Hatchery (SOP Section 4.3)</i>						
Eagle FH Captive Broodstock (SnakeR)	NC	NC	NC	NC	NC	NC
<i>Burley Creek Fish Hatchery (SOP Section 4.3)</i>						
Burley Cr. FH Captive Broodstock (SnakeR)	NC	NC	NC	NC	NC	NC
<i>Sawtooth Fish Hatchery (SOP Sections 4.2 and 4.5)</i>						
Redfish Lake Creek (SnakeR)	Erythromycin injections to treat for BKD.	NC	NC	NC	NC	NC
Sawtooth Trap (SnakeR)	Erythromycin injections to treat for BKD.	Scour hole below the Salmon River weir was filled in to prevent fish from holding below trap.	NC	NC	NC	NC
Pettit Lake Creek Trap (SnakeR)	NC	NC	NC	NC	NC	NC
<i>Bonneville Fish Hatchery</i>						
Bonneville Fish Hatchery Trap (Snake R)	TBD	Trap will be operated from early June through mid-July.	Returns in 2025 will represent 1-ocean adults.	NC	NC	Returning adults will be temporarily held at Bonneville FH before transfer to NPT or Eagle FH. Adults transferred to Eagle FH will be released to Redfish/Pettit lakes.

4.4. Marking and Rearing Plan for 2025 (Smolt BY 2024)

4.4.1. Marking and Rearing Plan for 2025 (Smolt BY 2024)– TOTALS

Table 4.4a. BY 2024 Sockeye Marking in 2025.

Hatchery	Release Site	Stock	Likely Release Date	Release Goals for 2026	Projected Actual Releases					PIT Tags ¹		
					Total	Adipose Fin Clip		No Clip		Total # Tags	Funding Source	
						No CWT	CWT	CWT	No CWT		CSS	BPA
Springfield	Redfish Lake Cr.	Snake R.	5/6/2026	1,000,000	942,637	942,637	-	-	-	58,800	39,800	19,000
Oxbow FH (OR)	Tanner Creek ²	Snake R.	5/5/2026	40,000	42,000	-	42,000	-	-	-	-	-
Grand Total				1,040,000	984,637	942,637	42,000	-	-	58,800	39,800	19,000

¹ PIT tag distribution between release groups is currently being discussed.

² Smolts are transferred to Bonneville FH and acclimated on Tanner Creek water before volitional release.

4.4.2. Marking and Rearing Plan for 2025 (Smolt BY 2024) – NARRATIVE

Here are examples of things managers were instructed to discuss for each release group, if there are departures from the norm (i.e., SOP). If no departure from the norm, enter NC for “No Change”.

- Fish Health - anticipated changes to normal fish health sampling or treatments
- Fish feeding - changes of diets of feed manufacturer, growth regimes etc.
- Rearing conditions - incubation, water temp, flow, rearing density changes
- Marking - e.g. schedule changes, planned changes to fish handling or movement, marking schedule, raceway loading for PBT etc.

Location	Fish Health	Fish Feeding	Rearing Conditions	Marking
<i>Springfield Fish Hatchery (SOP Section 4.4)</i>				
Springfield (SnakeR)	NC	Four growth model experiments ongoing, Exp.1a delayed ponding/standard growth, Exp. 1b delayed ponding grown with ΔL to 6 fpp, Exp. 2 standard ponding grown with ΔL to 6 fpp, Exp. 3 standard ponding grown with ΔL to 12 fpp, Exp. 4 standard ponding grown with constant %BW fed week on/week off to 12 fpp.	Delay ponding in one study group by use of chilled water during incubation to allow accelerated growth through fall and winter to meet release targets.	NC
<i>Oxbow/Bonneville Fish Hatcheries</i>				
Tanner Creek - Smolt Releases	Oregon Department of Fish and Wildlife (ODFW) will monitor fish health and perform preliberation sampling 30 – 60 days before release.	Target 10 – 12 fpp at release.	Juveniles reared at Oxbow FH from January through December (Age 1). Transferred to Bonneville FH for final rearing from Dec – May.	100% will receive Ad clip and coded wire tag in late August/early September.

5. Appendices

5.1. BY2025 Brood Calculator

5.1.1. BY2025 Brood Calculator – SMOLT RELEASES

PROGRAM INPUTS							HISTORICAL HATCHERY PERFORMANCE METRICS (5-YR AVG)							FORM CALCULATED VALUES									
SPECIES	HATCHERY	RELEASE SITE	STOCK	PREFERRED TRAPPING SITE	FORMAL SMOLT RELEASE GOAL	COMANAGER APPROVED CUSHION % ¹	% FEMALES IN BROODSTOCK (I)	% MORTALITY DURING HOLDING (J)	GREEN EGG FECUNDITY (K)	% REMAINING AFTER DISEASE CULLING ²	% SURVIVAL GREEN TO EYED EGG	% SURVIVAL EYED EGG TO RELEASE	RELEASE GOAL WITH CUSHION (O)	EYED EGGS (P)	GREEN EGGS (Q)	GREEN EGGS BEFORE DISEASE CULL	FEMALES SPAWNED (S)	MALES SPAWNED (T)	TOTAL ADULTS SPAWNED (U)	TRAPPED ADULTS NEEDED	ADULTS TRAPPED TO MEET 1:1 RATIO	SMOLTS PER TRAPPED ADULTS	
					(G)	(H)				(L)	(M)	(N)				(R)				(V)	(W)	(X)	
STLHD	HNFH	Sawtooth Weir	SawA	SFH	1,410,000	1.20%	50%	0.00%	5,445	100.00%	91.00%	92.00%	1,426,920	1,551,000	1,704,396	1,704,396	314	314	628	628	628	2,272	
		Sawtooth Weir (RAS Eval)	SawA	SFH	90,000	1.20%	50%	0.00%	5,445	100.00%	91.00%	92.00%	91,080	99,000	108,791	108,791	20	20	40	40	40	2,277	
		E. Fork Salmon R. - Upper	EFNat	EFSRSF	60,000	3.75%	50%	0.00%	5,775	100.00%	84.00%	88.90%	62,250	70,022	83,360	83,360	15	15	30	30	30	2,075	
	MVFH	Sawtooth Weir	SawA	SFH	279,000	0.00%	50%	0.00%	5,445	100.00%	91.00%	84.00%	279,000	332,143	364,992	364,992	68	68	136	136	136	2,051	
		Little Salmon R. - Stinky Sp.	SawA	SFH	403,000	0.00%	50%	0.00%	5,445	100.00%	91.00%	84.00%	403,000	479,762	527,211	527,211	97	97	194	194	194	2,077	
		Pahsimeroi Weir	USRB	PFH	434,000	0.00%	60%	5.00%	6,500	100.00%	90.00%	84.00%	434,000	516,667	574,074	574,074	89	59	148	157	235	2,764	
	NSFH	Yankee Fork	USRB	YFT	434,000	0.00%	60%	5.00%	6,200	100.00%	90.00%	84.00%	434,000	516,667	574,074	574,074	93	62	155	164	245	2,646	
		Pahsimeroi Weir	PahA	PFH	800,000	10.00%	50%	0.00%	6,200	100.00%	93.00%	84.33%	880,000	1,043,520	1,122,064	1,122,064	181	181	362	362	362	2,431	
		Little Salmon R. - Stinky Sp.	PahA	PFH	200,000	10.00%	50%	0.00%	6,200	100.00%	93.00%	84.33%	220,000	260,880	280,516	280,516	46	46	92	92	92	2,391	
		Little Salmon R. - Stinky Sp.	OxbA	HCT	250,000	8.00%	50%	35.00%	6,076	96.00%	88.07%	89.88%	270,000	300,401	341,093	355,305	59	59	118	182	182	1,484	
			Snake R. Hells Canyon	OxbA	HCT	550,000	8.00%	50%	35.00%	6,076	96.00%	88.07%	89.88%	594,000	660,881	750,404	781,671	129	129	258	397	397	1,496
SP/SU CHIN	RRFH	Rapid River Hatchery	RapidR	RRFH	2,650,000	10.00%	50%	6.00%	3,500	93.70%	92.40%	94.80%	2,915,000	3,074,895	3,327,808	3,551,556	1015	1015	2030	2160	2160	1,350	
		Hells Canyon	RapidR	RRFH	350,000	10.00%	50%	6.00%	3,500	93.70%	92.40%	94.80%	385,000	406,118	439,522	469,073	135	135	270	288	288	1,337	
	SFH	Salmon R.-Co. Line Br.-Int	USRInt	SFH	250,000	0.00%	50%	3.00%	4,350	96.00%	93.00%	92.00%	250,000	271,739	292,193	304,367	70	70	140	145	145	1,724	
		Sawtooth Weir -Seg	USRSeg	SFH	1,450,000	3.00%	50%	3.00%	4,200	96.00%	94.00%	95.00%	1,493,500	1,572,105	1,672,452	1,742,138	415	415	830	856	856	1,745	
		Yankee Fork	USRSeg	SFH	300,000	3.00%	50%	3.00%	4,200	96.00%	94.00%	95.00%	309,000	325,263	346,025	360,442	86	86	172	178	178	1,736	
	PFH	Pahsimeroi Weir - Int	PahInt	PFH	65,000	0.00%	50%	14.00%	4,500	94.00%	90.00%	96.00%	65,000	67,708	75,231	80,033	18	18	36	42	42	1,548	
		Pahsimeroi Weir - Seg	PahSeg	PFH	935,000	10.00%	50%	15.00%	4,500	94.00%	90.00%	96.00%	1,028,500	1,071,354	1,190,394	1,266,376	282	282	564	664	664	1,549	
	McFH	SFSR Knox Br. - Int	SFSRInt	SFSRW	150,000	0.00%	50%	8.50%	3,800	95.00%	91.70%	85.00%	150,000	176,471	192,443	202,572	54	54	108	119	119	1,261	
		SFSR Knox Br. - Seg	SFSRSeg	SFSRW	850,000	10.00%	50%	8.50%	3,800	95.00%	91.70%	85.00%	935,000	1,100,000	1,199,564	1,262,699	333	333	666	728	728	1,284	
			Johnson Creek	JohnCr	JCW	150,000	10.00%	50%	10.00%	4,200	97.00%	86.00%	87.00%	165,000	189,655	220,529	227,350	55	55	110	123	123	1,341
FALL CHIN	IFH	Salmon R.-Hammer Cr			1,000,000								1,000,000	#DIV/0!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#DIV/0!	#VALUE!	#VALUE!	#DIV/0!	
	LFH/FCAP	Salmon R.-Russel Bar			600,000								600,000	#DIV/0!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#DIV/0!	#VALUE!	#VALUE!	#DIV/0!	
	LFH/FCAP	Salmon R.-Captain Johns			650,000								650,000	#DIV/0!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#DIV/0!	#VALUE!	#VALUE!	#DIV/0!	
	IFH	Salmon R.-Couse Creek			600,000								600,000	#DIV/0!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#DIV/0!	#VALUE!	#VALUE!	#DIV/0!	
SOCK	SpFH	Redfish Lake Creek	Redfish Lk	RFLC/SFH	110,000	0.00%	50.00%	5.00%	2,000	90.00%	75.00%	92.00%	110,000	119,565	159,420	177,134	89	89	178	188	188	585	
		Redfish Lake Creek	Redfish Lk	EFH CB	505,000	0.00%	50.00%	2.00%	1,600	100.00%	70.00%	92.00%	505,000	548,913	784,161	784,161	491	491	982	1003	1003	503	
		Redfish Lake Creek	Redfish Lk	NOAA CB	425,000	0.00%	50.00%	2.00%	1,700	100.00%	75.00%	92.00%	425,000	461,957	615,942	615,942	363	363	726	741	741	574	
1 In the 2013 AOP process, the co-managers approved a 10% cushion to meet release targets											CELL FORMULAS		G*(1+H)	O/(N)	P/(M)	Q/(L)	ROUNDUP (R/K,O)	S/(I)-S	T+S	ROUNDUP U/(1-J),0)	ROUNDUP P(S/(1-I)/(1-	O/V	
2 Culling of eggs for BKD, IHN, etc.																							

¹ In the 2013 AOP process, the co-managers approved a 10% cushion to meet release targets

² Culling of eggs for BKD, IHN, etc.

5.1.2. BY2025 Brood Calculator – EGG RELEASES

PROGRAM INPUTS							HISTORICAL HATCHERY PERFORMANCE METRICS (5-YR AVG)						FORM CALCULATED VALUES									
					FORMAL EGG RELEASE GOAL	COMANAGER APPROVED CUSHION % ¹	% FEMALES IN BROODSTOCK	% MORTALITY DURING HOLDING	GREEN EGG FECUNDITY	% SURVIVAL AFTER DISEASE CULLING ²	% SURVIVAL GREEN TO EYED EGG	% SURVIVAL EYED EGG TO RELEASE	EGG RELEASE GOAL WITH CUSHION	EYED EGGS	GREEN EGGS	GREEN EGGS BEFORE DISEASE CULL	FEMALES SPAWNED	MALES SPAWNED	TOTAL ADULTS SPAWNED	TRAPPED ADULTS NEEDED	ADULTS TRAPPED TO MEET 1:1 RATIO	SMOLTS PER TRAPPED ADULTS NEEDED
SPECIES	HATCHERY	RELEASE SITE	STOCK	PREFERRED TRAPPING SITE	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
STHD	PFH	SBT Egg Box-Yankee Fork	USRB/Saw	PFH	500,000	0%	60%	5.00%	6,500	100.00%	84.00%	NA	500,000	500,000	595,238	595,238	92	61.33333	153.3333	162	243	3,086
		SBT Egg Box-Panther Cr	PahA	PFH	300,000	10%	50%	0.00%	6,200	100.00%	88.00%	NA	330,000	330,000	375,000	375,000	61	61	122	122	122	2,705
		SBT Egg Box-Indian Cr	PahA	PFH	200,000	10%	50%	0.00%	6,200	100.00%	88.00%	NA	220,000	220,000	250,000	250,000	41	41	82	82	82	2,683
SP/SU	PFH	Panther Cr - Egg box	PahSeg	PFH	800,000	0%	50%	15.00%	4,500	95%	91.70%	NA	800,000	800,000	872,410	918,326	205	205	410	483	483	1,656
CHIN	McFH	Curtis/Cabin Cr - Egg box	SFSRSeg	McFH	300,000	0%	50%	10.00%	3,800	95%	91.70%	NA	300,000	300,000	327,154	344,372	91	91	182	203	203	1,478

¹ In the 2013 AOP process, the co-managers approved a 10% cushion to meet release targets

² Culling of eggs for BKD, IHN, etc.

5.2. Steelhead Alternate Broodstock Sources

Release Site	Preferred Stock	Alternate Stock
<i>Smolt</i>		
Snake R. Hells Canyon	OxbA	PahA
Little Salmon R. Stinky Sp.	PahA	-
	OxbA	PahA
	SawA	PahA
Yankee Fork	USRB (PFH Trap)	USRB (YF Trap)
PFH Weir	PahA	-
	USRB (PFH Trap)	USRB (YF Trap)
SFH Weir	SawA	-
East Fork Salmon R.	EFNat	-
<i>SBT Egg Box</i>		
Panther Cr	PahA	-
Indian Cr	PahA	-
Yankee Fork	USRB	SawA