## 2024

## **ANNUAL OPERATING PLAN**

## for

# **FISH PRODUCTION PROGRAMS**

## in the

## **CLEARWATER RIVER BASIN**

by

U.S Fish and Wildlife Service Idaho Department of Fish and Game Nez Perce Tribe February 26, 2024

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## **0.** Preamble

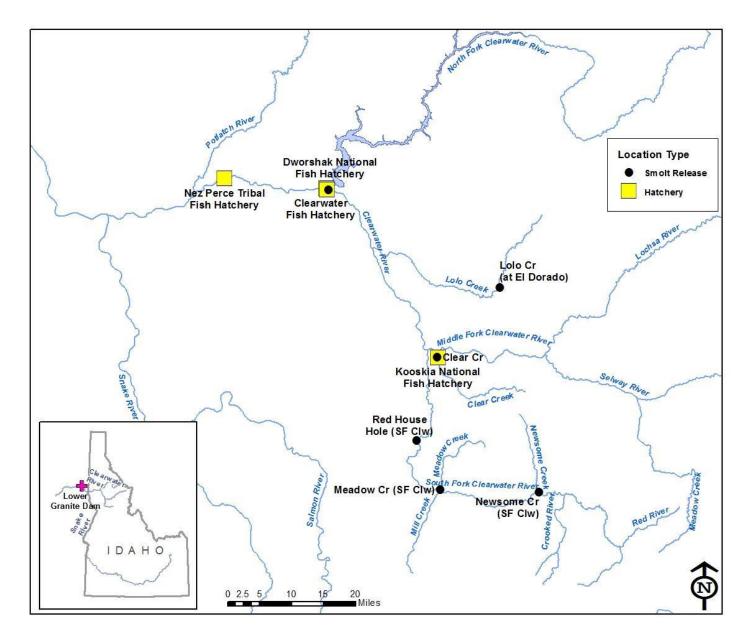
The Annual Operating Plan (AOP) meeting and AOP/SOP documents are planning, coordination and logistics tools that identify the expected implementation of a number of hatchery operation and research/monitoring activities for the coming year in a transparent, open manner.

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 <u>without</u> 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**



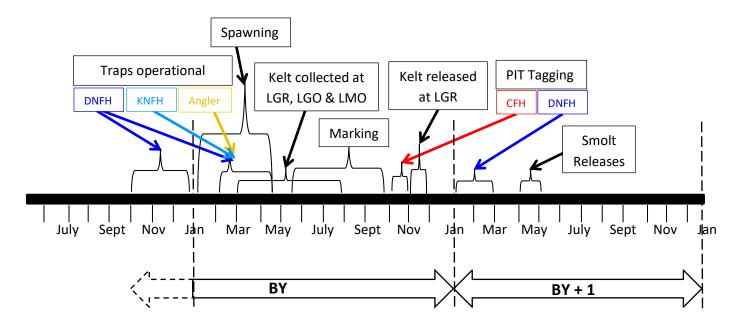
**Figure 1.1.** Steelhead trapping, hatchery facilities and smolt release locations. Table below gives smolt release goals by release site.

Rearing Facility	Program	Brood Collection Site	Release Site	BY2023 Smolt Release Goals	Size (FPP)
		DNFH	DNFH	1,200,000	5.8
DNFH	NF Clearwater	(Trad. Spawned)	Clear Creek	300,000	5.8
DINFI		(Trau. Spawneu)	Lolo Creek <sup>1</sup>	200,000	5.8
	SF Clearwater SFClwR Angler (DNFH) Red House Hole-SF Clw			400,000	5.8
Total				2,100,000	
			Meadow Creek-SF Clw	501,000	4.5-6.0
CFH/DNFH	CFH	SFClwR Angler (DNFH)	Red House Hole-SF Clw	219,000	4.5-6.0
			Newsome Creek-SF Clw	123,000	4.5-6.0
Total				843,000	
Grand Tota	1			2,943,000	

Table 1.1. BY 2023 Steelhead Release Goals for 2024.

<sup>1</sup> Release will be relocated to the SFClwR at Newsome Creek site for MY2024.

#### 1.1. Timeline and Flowchart for Steelhead Production



**Figure 1.2.** Timeline for Steelhead Production. Date ranges with black labels are shown to include all facilities' operations. Color-coded labels identify activities that have variability in timing for the different facilities.

## **STEELHEAD**

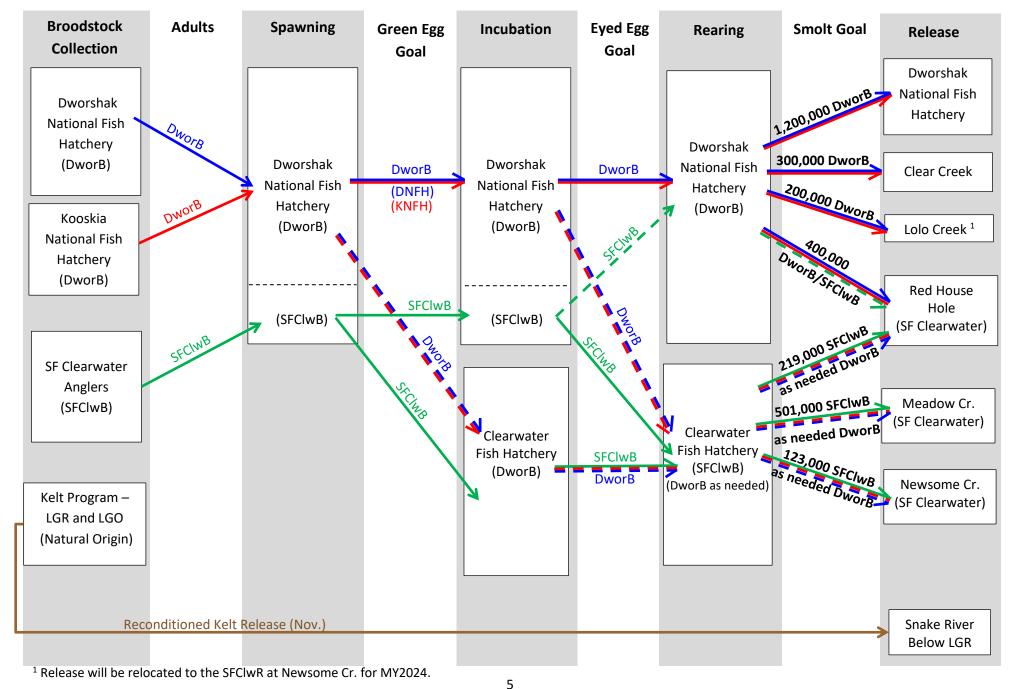


Figure 1.3. Fish and egg movements for Steelhead. Numbers represent 2024 releases.

#### Releases in 2024 (Smolt BY 2023) 1.2.

## 1.2.1. Releases in 2024 (Smolt BY 2023) – Totals

Rearing	Program	Brood Collection	Release Site	Release	Goals	Inventory	To Date	-	Fingerlings ased	Projected S	molt Releases	
Facility	riogram	Site		Number	Size (FPP)	Date	Number	Number	Release Site	Dates	Number	Size (FPP)
		DNFH	DNFH	1,200,000	5.8	11/30/2023	1,191,025			4/16/2024	1,186,261	5.8
	NF Clearwater	earwater (Trad. Spawned)	Clear Creek	300,000	5.8	11/30/2023	316,568			4/8-4/12/2024	315,302	5.8
DNFH			Lolo Creek 1	200,000	5.8	11/30/2023	230,563			4/8-4/12/2024	229,641	5.8
	SF Clearwater	(DNFH)	Red House Hole-SF Clw	400,000	5.8	11/30/2023	380,237			4/8-4/12/2024	378,716	5.8
Total				2,100,000			2,118,393	0			2,109,919	5.8
			Meadow Creek-SF Clw	501,000	4.5-6.0	11/30/2023	490,594			4/1-4/19/2024	484,604	5.0
CFH	CFH	SFClwR Angler (DNFH)	Red House Hole-SF Clw	219,000	4.5-6.0	11/30/2023	261,967			4/1-4/19/2024	258,765	5.5
			Newsome Creek-SF Clw	123,000	4.5-6.0	11/30/2023	152,008			4/1-4/19/2024	150,150	5.8
Totals				843,000			904,569	0			893,519	
Grand Total				2,943,000			3,022,962	0			3,003,438	

#### Table 1.2a. Steelhead Rearing Metrics for BY 2023 fish for release in 2024

<sup>1</sup> Release will be relocated to the SFClwR at Newsome Creek site for MY2024.

Rearing		Brood Collection		Inventory to Date						PIT Tags						
Facility	Program	Site	Release Site	Dete	Tatal	Adipose	Fin Clip	No	Clip	Total #		Fund	ing Sou	rce <sup>3</sup>		
-				Date	Total	No CWT	СМТ	сwт	СМТ	Tags <sup>2</sup>	CSS	LSRCP	ACOE	NPT	SMP	
DNFH		DNFH	11/30/2023	1,191,025	1,070,945	120,080	0	0	20,010	4,955		13,555		1,500		
DNEU	NF Clearwater	(Trad. Spawned)	Clear Creek	11/30/2023	316,568	296,518	20,050	0	0	6,896	3,448		3,448			
DNFH			Lolo Creek <sup>1</sup>	11/30/2023	230,563	0	0	0	230,563	4,994	2,497		2,497			
	SF Clearwater	SFClwR Angler (DNFH)	Red House Hole-SF Clw	11/30/2023	380,237	343,995	36,242	0	0	1,000	500		500			
Total					2,118,393	1,711,458	176,372	0	230,563	32,900	11,400	0	20,000	0	1,500	
			Meadow Creek-SF Clw	11/30/2023	490,594	280,783		209,811		10,794	3,200	7,600				
CFH	CFH	SFClwR Angler (DNFH)	Red House Hole-SF Clw	11/30/2023	261,967	261,967				4,698	1,400	3,300				
			Newsome Creek-SF Clw	11/30/2023	152,008			152,008		15,892	800	1,800		13,300		
Totals				904,569	542,750	0	361,819	0	31,384	5,400	12,700	0	13,300	0		
Grand Total						2,254,208	176,372	361,819	230,563	64,284	16,800	12,700	20,000	13,300	1,500	

#### Table 1.2b. BY 2023 Steelhead Inventory to Date by Mark Type for release in 2024.

<sup>1</sup> Release will be relocated to the SFClwR at Newsome Creek site for MY2024.
 <sup>2</sup> Represents actual number tagged if tags have already been applied at the time of this report

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

### 1.2.2. Releases in 2024 (Smolt BY 2023) - 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.

	Plar	n for 2024	Changes/Conditions	that Occurred 202	3-Early 2024
Release Location	Release Target Smolt BY23	Transport/Release Smolt BY23	Fish Feeding BY23	Fish/Egg Health BY23	Marking BY23
	Dworshak Nation	al Fish Hatchery (SOP Se	ection 1.2)		
Dworshak National Fish Hatchery (DworB)	NC	NC	Florfenicol 10 day feed treatment for Bacterial Cold Water Disease (CWD- F. psychrophilum)	NC	NC
Clear Creek (DworB)	NC	NC	Florfenicol 10 day feed treatment for CWD - <i>F. psychrophilum</i> Feed Study implemented: Skretting #2 crumble	NC	NC
Red House, SF Clearwater (SFClw/DworB)	NC	NC	Florfenicol 10 day feed treatment for CWD - <i>F. psychrophilum</i>	NC	NC
Lolo Creek (DworB)	NC	South Fork Release due to Lolo Creek road conditions	Florfenicol 10 day feed treatment - BP 1 only for CWD - F. psychrophilum	NC	NC
	Clearwater Fish H	latchery (SOP Section 1	.3)		
Meadow Creek SF Clearwater (SFClwB/DworB)	NC	Transferred 97,160 to Dworshak Hatchery	NC	NC	NC
Red House Hole SF Clearwater (SFClwB/DworB)	NC	NC	NC	NC	NC
Newsome Creek SF Clearwater (SFClwB/DworB)	NC	Transferred 47,682 to Dworshak Hatchery	NC	NC	NC

### 1.3. Trap Operations and Production Planning for 2024 (Smolt BY 2024)

Rearing Facility	Program	Brood Collection Site	Release Site	Smolt Release
· actively		0110		Goals
		DNFH	MS Clearwater at DNFH	1,200,000
DNFH	NF Clearwater	(Trad. Spawned)	Clear Creek	300,000
DINFI		SFClwR Angler (DNFH)	Lolo Creek	200,000
	SF Clearwater	SFClwR Angler (DNFH)	Red House Hole - SF Clw	400,000
Total				2,100,000
			Meadow Creek-SF Clw	501,000
CFH/DNFH	CFH	SFCIwR Angler (DNFH)	Red House Hole-SF Clw	219,000
			Newsome Creek-SF Clw	123,000
Total				843,000
Grand Total				2,943,000

BY 2024 Steelhead smolt production goals for release in 2025.

### 1.3.1. Trap Operations and Production Planning for 2024 (Smolt BY 2024) – TOTALS

 Table 1.3a.
 BY 2024 - Steelhead Spawning/Egg Take Plan.

		Hatchery Program / Brood Source / Females Spawned By Method / Green Eggs Taken												
				DNI	FH - All Rele	eases			CFH - Sou	th Fork	Clearwater	Grad	d Tatala	
	DWORB SFCWR DN								SFCWR			Grand Totals		
	Take	Fema	les	Green Eggs	Femal	es	Green Eggs	Green Eggs Projections	Femal	es	Green Eggs	Females	Green Eggs	
No.	Week of	Fecundity	Kill Sp	Projections	Fecundity	Kill Sp	Projections	Combined	Fecundity	Kill Sp	Projections	Kill Sp	Projections	
1 E	Jan 15 - Jan 19	7,368	50	368,400	7,417		0	368,400	7,417		0	50	368,400	
2 E	Jan 29- Feb 2	7,368	52	383,136	7,417		0	383,136	7,417		0	52	383,136	
3	Feb 12 - Feb 16	7,368	56	412,608	7,417		0	412,608	7,417		0	56	412,608	
4	Feb 19 - Feb 23	7,368	60	442,080	7,417		0	442,080	7,417		0	60	442,080	
5	Feb 26 - Mar 1	7,368	67	493,656	7,417		0	493,656	7,417		0	67	493,656	
6	Mar 4 - Mar 8	7,368		0	7,417		0	0	7,417	29	215,093	29	215,093	
7	Mar 11 - Mar 15	7,368	45	331,560	7,417		0	331,560	7,417	41	304,097	86	635,657	
8	Mar 18 - Mar 22	7,368		0	7,417	44	326,348	326,348	7,417	41	304,097	85	630,445	
9	Mar 25 - Mar 29	7,368		0	7,417	44	326,348	326,348	7,417	41	304,097	85	630,445	
<b>10</b> <sup>1</sup>	Apr 1 - Apr 5	7,368		0	7,417	48	356,016	356,016	7,417	29	215,093	77	571,109	
11	Apr 8 - Apr 12	7,368		0	7,417		0	0	7,417		0	0	0	
	Grand Tota		330	2,431,440		136	1,008,712	3,440,152		181	1,342,477	647	4,782,629	

<sup>1</sup> 48 females spawned from SFCW stock on this day will be used for the Lolo Creek program.

## **1.3.2.** Trap Operations and Production Planning for 2024 (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".

			Plan for 2024 (BY 2024	)	
Rearing Location	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults
	Dworshak/Kooski	a National Fish Hatchery	Ladder/Trap (Fall 2023	S-Spring 2024)(SOP Sect	tion 1.2)
Dworshak National Fish Hatchery (DworB)	NC	Adults for the Lolo Creek program will be collected by the SFCW angler collection program	NC	NC	NC
Kooskia National Fish Hatchery (DworB)	NC	NC	NC	NC	NC
Clearwater Fish Hatchery (DworB)	NC	NC	NC	NC	NC
	Reconditioned Ke	Its (SOP Section 1.2)			
Dworshak National Fish Hatchery (Natural/Ad intact B)	N/C	Note: collection from Lower Monumental began in 2022 and will continue in 2024	N/C	N/C	N/C
Nez Perce Tribal Hatchery (Natural/Ad intact B)	N/C	Note: collection from Lower Monumental began in 2022 and will continue in 2024	N/C	N/C	N/C
	SF Clearwater An	glers (SOP Section 1.3)			
Dworshak National Fish Hatchery (SFClwB)	NC	Adults for the Lolo Creek program will be collected by the SFCW angler collection program	NC	NC	NC
Clearwater Fish Hatchery (SFClwB)	NC	NC	NC	NC	NC

### 1.4. Marking and Rearing Plan for 2024 (Smolt BY 2024)

Rearing				Smolt
Facility	Program	<b>Brood Collection Site</b>	Release Site	Release
Facility				Goals
		DNFH	MS Clearwater at DNFH	1,200,000
DNFH	NF Clearwater	(Trad. Spawned)	Clear Creek	300,000
DINFI		SFCIwR Angler (DNFH)	Lolo Creek	200,000
	SF Clearwater	SFCIwR Angler (DNFH)	Red House Hole - SF Clw	400,000
Total				2,100,000
			Meadow Creek-SF Clw	501,000
CFH/DNFH	CFH	SFClwR Angler (DNFH)	Red House Hole-SF Clw	219,000
			Newsome Creek-SF Clw	123,000
Total				843,000
Grand Total				2,943,000

### BY 2024 Steelhead smolt production goals for release in 2025.

## 1.4.1. Marking and Rearing Plan for 2024 (Smolt BY 2024) – TOTALS

**Table 1.4a**. Steelhead Projected marking for BY 2024 Production for release in 2025.

Desides				Smolt	Р	rojected	Marking				PIT T	ags		
Rearing Facility	Program	<b>Brood Collection Site</b>	Release Site	Release	Adipose Fin Clip No Clip		Clip	Total # Fui		Fund	nding Source			
гасшту				Goals	No CWT	сwт	сwт	No CWT	Tags	CSS	LSRCP	NPT	ACOE	SMP
		DNFH	MS Clearwater at DNFH	1,200,000	1,080,000	120,000			19,900	4,900			13,500	1,500
DNEU	NF Clearwater	(Trad. Spawned)	Clear Creek	300,000	280,000	20,000			5,000	2,500			2,500	
DNFH		SFClwR Angler (DNFH)	Lolo Creek	200,000				200,000	1,000	500			500	
	SF Clearwater	SFClwR Angler (DNFH)	Red House Hole - SF Clw	400,000	360,000	40,000			7,000	3,500			3,500	
Total				2,100,000	1,720,000	180,000	0	200,000	32,900	11,400	0	0	20,000	1,500
			Meadow Creek-SF Clw	501,000	291,000		210,000		10,800	3,200	7,600			
CFH/DNFH	CFH	SFClwR Angler (DNFH)	Red House Hole-SF Clw	219,000	219,000				4,700	1,400	3,300			
			Newsome Creek-SF Clw	123,000			123,000		15,900	800	1,800	13,300		
Totals				843,000	510,000	0	333,000	0	31,400	5,400	12,700	13,300	0	0
Grand Totals	;			2,943,000	2,230,000	180,000	333,000	200,000	64,300	16,800	12,700	13,300	20,000	1,500

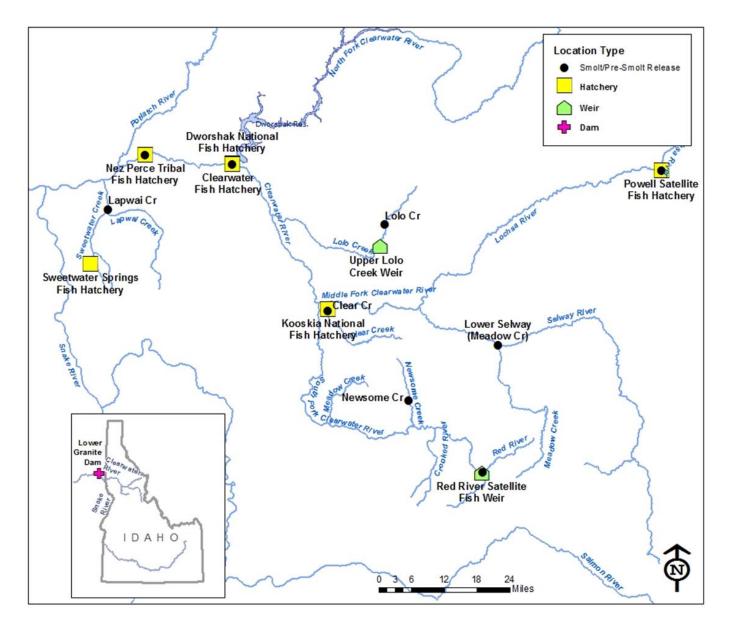
### 1.4.2. Marking and Rearing Plan for 2024 (Smolt BY 2024) – NARRATIVE

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 to start for BY2020
- 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		Plan for 202	4 (BY 2024)	
Location	Juvenile Fish Health	Fish Feeding	<b>Rearing Conditions</b>	Marking
	Dworshak National Fish Ho	atchery (SOP Section 1.2)		
Dworshak NFH (DworB)	NC	Utilize Skretting # 2 Crumble as cost-saving measure	Some fish may be reared temporarily in sys III to facilitate release line replacement.	NC
Clear Creek (DworB)	NC	Utilize Skretting # 2 Crumble as cost-saving measure	Some fish may be reared temporarily in sys III to facilitate release line replacement.	NC
Red House, SF Clearwater (SFClw/DworB)	NC	Utilize Skretting # 2 Crumble as cost-saving measure	Some fish may be reared temporarily in sys III to facilitate release line replacement.	NC
Lolo Creek (SFClw)	NC	Utilize Skretting # 2 Crumble as cost-saving measure	Some fish may be reared temporarily in sys III to facilitate release line replacement.	NC
	Clearwater Fish Hatchery (	SOP Section 1.3)	·	
Meadow Creek SF Clearwater (SFClwB/DworB)	NC	NC	NC	NC
Red House Hole SF Clearwater (SFClwB/DworB)	NC	NC	NC	NC
Newsome Creek SF Clearwater (SFClwB/DworB)	NC	NC	NC	NC

## 2. Spring/Summer Chinook



**Figure 2.1.** Locations of Spring/Summer Chinook Salmon hatchery facilities and smolt/pre-smolt releases. Table below gives smolt and pre-smolt release goals by release site.

## Table 2.1. Spring/Summer Chinook Goals for Release in 2024

### BY2022 SMOLTS

Action in 2024	Brood/ Release Year	Hatchery Program	Rearing Facility	Brood Collection Site	Release Site	Smolt Release Goal			
					Spring				
		DNFH - LSRCP	DNFH	DNFH	NF Clearwater (DNFH)-Early Rel NF Clearwater (DNFH)-Late Rel	1,650,000			
		Total				1,650,000			
		KNFH-NPT	KNFH	KNFH	Kooskia NFH	650,000			
		Total	Total						
			NPTH	DNFH	Trans. to NPTH from DNFH-Early Rel <sup>3</sup>	100,000			
		NPTHC		DINFI	Trans. to NPTH from DNFH-Late Rel <sup>3</sup>	100,000			
			NF IIIC	NPTH	NPTH	Lolo Creek <sup>2</sup>	200,000		
			NPTH	DNFH	Lapwai Creek	200,000			
Release	RY2024	Total				600,000			
	1112021			SFClw	Red River	1,280,000			
				DNFH	NF Clearwater-CFH (Early) <sup>1</sup>	389,000			
		CFH-LSRCP	CFH	DNFH	NF Clearwater-CFH (Late) <sup>1</sup>	320,000			
				DNFH	Selway River-Lower	400,000			
				KNFH/DNFH	Clear Creek	720,000			
		Total				3,109,000			
		Spring Grand	Total			6,009,000			
					Summer				
		CFH-LSRCP	CFH	Pow	Powell Pond <sup>4</sup>	640,000			
		Summer Grar	nd Total			640,000			

<sup>1</sup> The early/late release groups were reared in the unbaffled adult ponds and the regular raceways

<sup>2</sup> Group originally destined for Lolo release will now be released at NPTH as a Early Release. The Lolo Creek release site is not accessible in 2024.

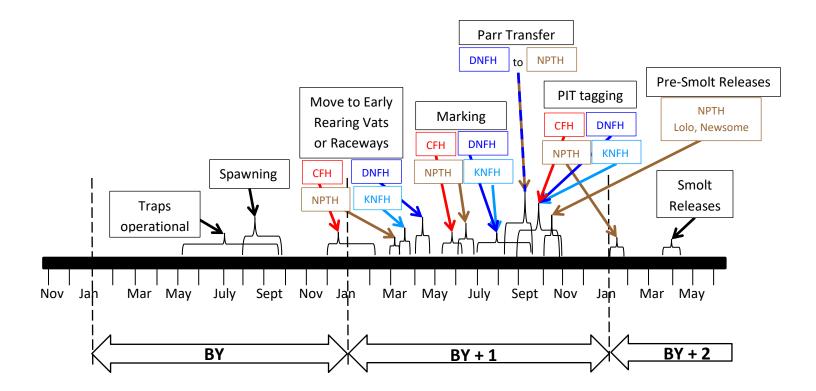
<sup>3</sup> Groups originally destined for NPTH Early and Late Releases will now be combined into one Late Release.

<sup>4</sup> BY2022 is the last Summer Run cohort to be released at Powell.

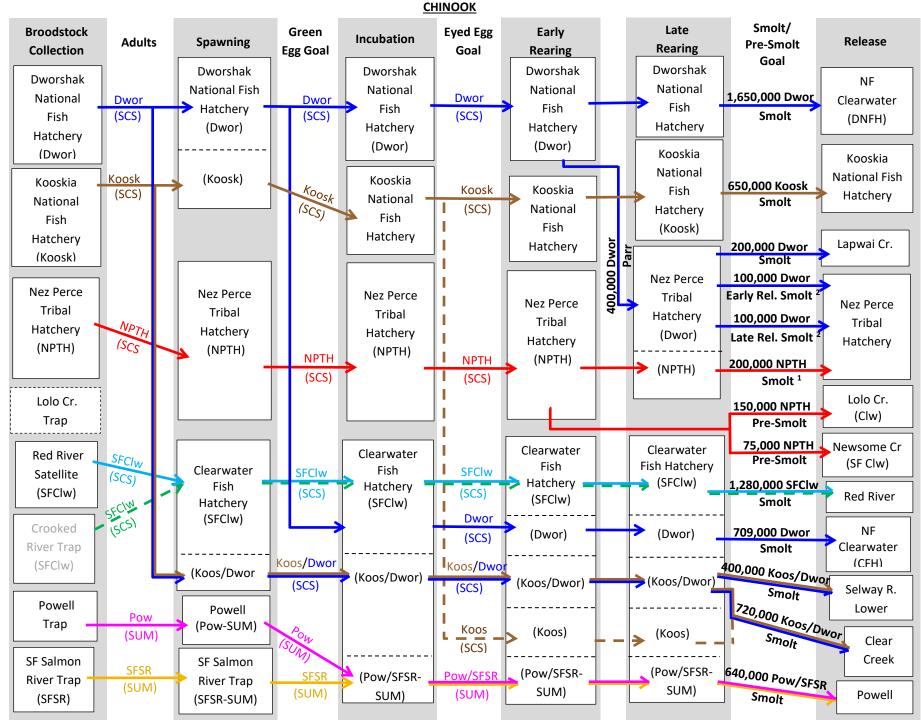
#### **BY2023 PRE-SMOLTS SMOLTS**

Action in 2024	Release	Hatcherv	-	Brood Collection Site	Life Stage	Release Site	Smolt Release Goal
Marking					Spring		
and	BY2023		NPTH	NPTHC	Pre-Smolt	Newsome Cr (SF Clw)	75,000
Release	RY2024		NETHC	Pre-Smolt	Lolo Cr (SF Clw)	150,000	
hereuse		Spring Grai	nd Total				225,000

## 2.1. Timeline and Flowchart for Spring/Summer Chinook Production



**Figure 2.2.** Timeline for Spring/Summer Chinook Production. Date ranges with black labels are shown to include all facilities' operations. Color-coded labels identify activities that have variability in timing for the different facilities.



<sup>1</sup> Group originally destined for Lolo release will now be released at NPTH as a Late Release. The Lolo Creek release site is not accessible in 2024. <sup>2</sup> Groups originally destined for NPTH Early and Late Releases will now be combined into one Late Release.

Figure 2.3. Chinook movements for Clearwater. Numbers represent 2024 releases.

#### 2.2. Releases in 2024 (Smolt BY 2022, Pre-Smolt BY 2023)

## 2.2.1. Releases in 2024 (Smolt BY 2022, Pre-Smolt BY 2023) - Totals

Table 2.2a. BY2022 SMOLTS - Sp/Su Chinook Salmon inventories	s by life stage, smolt release goals and projected releases in 2024.
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Hatchery	Run	Rearing	Brood Collection	Release Site	Release	Goals	Inventory T	o Date	Projected Sr	nolt Relea	ase
Program	Kull	Facility	Site	Release Site	Number	Size (FPP)	Date	Number	Dates	Number	Size (FPP)
				Spri	ng						
DNFH - LSRCP	SpCS	DNFH <sup>5</sup>	DNFH	NF Clearwater (DNFH)-Early Rel NF Clearwater (DNFH)-Late Rel	1,650,000	20.0 20.0	12/12/2023 12/12/2023	842,993 946,286	3/31/2024 4/10/24	842,200 945,389	f
Total				· · · ·	1,650,000		· · ·	1,789,279		1,787,589	8
KNFH-NPT	SpCS	KNFH	KNFH	Kooskia NFH	650,000	20.0	12/01/2023	624,934	4/10/2024	622,000	20.0
Total		-	-		650,000			624,934		622,000	
			DNFH	Trans. to NPTH from DNFH-Early Rel $^3$	100,000	20.0	12/1/2023	96,769	3/26/2024	96,269	20.0
NPTHC	Shee	NPTH	DINITI	Trans. to NPTH from DNFH-Late Rel <sup>3</sup>	100,000	20.0	12/1/2023	92,827	3/26/2024	92,327	20.0
INF ITIC	spes		NPTH	Lolo Creek <sup>2</sup>	200,000	20.0	12/1/2023	204,454	4/10/2024	203,454	20.0
			DNFH	Lapwai Creek	200,000	20.0	12/1/2023	201,506	4/17/2024	200,506	20.0
Total					600,000			595,556		592,556	
			SFClw	Red River	1,280,000	16.0	12/2/2023	1,111,831	3/13 - 4/13/2024	1,111,300	16.0
			DNFH	NF Clearwater-CFH (Early) <sup>1</sup>	389,000	16.0	12/2/2023	381,473	3/30/2024	381,000	16.0
CFH-LSRCP	SpCS	CFH <sup>6</sup>	DNFH	NF Clearwater-CFH (Late) <sup>1</sup>	320,000	16.0	12/2/2023	211,557	4/14/2024	211,000	16.0
			DNFH	Selway River-Lower	400,000	16.0	12/2/2023	419,911	3/13 - 4/13/2024	419,500	16.0
			KNFH/DNFH	Clear Creek	720,000	16.0	12/2/2023	720,766	3/13 - 4/13/2024	720,200	16.0
Total					3,109,000			2,845,538		2,843,000	
Spring Grand	Total				6,009,000			5,855,307		5,845,145	
				Sumn	ner						
CFH-LSRCP	SuCS	CFH	Pow	Powell Pond <sup>4</sup>	640,000	16.0	12/2/2023	435,160	3/13 - 4/13/2024	434,600	16.0
Summer Gran	ummer Grand Total							435,160		434,600	
Spring/Summ	ring/Summer Grand Total							6,290,467		6,279,745	

<sup>1</sup> The early/late release groups were reared in the unbaffled adult ponds and the regular raceways

<sup>2</sup> Group originally destined for Lolo release will now be released at NPTH. The Lolo Creek release site is not accessible in 2024.

 $^{\rm 3}$  Groups originally destined for NPTH Early and Late Releases will now be combined into one release.

 $^{\rm 4}$  BY2022 is the last Summer Run cohort to be released at Powell.

<sup>5</sup> Dworshak projected smolt release includes 198,488 Southern Resident Killer Whale program smolts

 $^{\rm 6}$  CFH-LSRCP smolt release dates are generalized due to unpredictable weather conditions.

Hatchery		Rearing	Brood			lı	nventory	to Date					PIT Tags	6	
Program	Run	Facility	Collection	Release Site			Adipose	Fin Clip	No	Clip	Total #		Funding	Source	:
		•	Site		Date	Total	СМТ	No CWT	сwт	No CWT	Tags	css	LSRCP	USFWS	BPA
					Spri	ng									
DNFH - LSRCP	SnCS		DNFH	NF Clearwater (DNFH)-Early Rel	9/9/23	904,082	107,507	796,575			21,000	21,000			
DNITI- LSICF	Shea	DINFH	DINITI	NF Clearwater (DNFH)-Late Rel	9/6/23	896,367	107,558	788,809			21,000	21,000			
Total						1,800,449	215,065	1,585,384	0	0	42,000	42,000	0	0	0
KNFH-NPT	SpCS	KNFH	KNFH	Kooskia NFH	12/1/2023	624,934	104,992	471,646		48,296	6,000			6,000	
Total						624,934	104,992	471,646	0	48,296	6,000	0	0	6,000	0
			DNFH	Trans. to NPTH from DNFH-Early Rel <sup>3</sup>	12/1/2023	96,769	65,652	26,820	87	4,210	2,800				2,800
NPTHC	مەرب		טוורח	Trans. to NPTH from DNFH-Late Rel <sup>3</sup>	12/1/2023	92,827	0	83,010	0	9,817	2,800				2,800
NPIEC	spcs	NPTH	NPTH	Lolo Creek <sup>2</sup>	12/1/2023	204,454	0	0	199,635	4,819	5,600				5,600
			DNFH	Lapwai Creek	12/1/2023	201,506	59,601	140,793	331	781	5,000		5,000		
Total						595,556	125,253	250,623	200,053	19,627	16,200	0	5,000	0	11,200
			SFClw	Red River	12/2/2023	1,111,831	121,140	990,691			17,098	5,099	11,999		
			DNFH	NF Clearwater-CFH (Early) <sup>1</sup>	12/2/2023	381,473	60,002	321,471			11,096		11,096		
CFH-LSRCP	SpCS	CFH		NF Clearwater-CFH (Late) <sup>1</sup>	12/2/2023	211,557	60,059	151,498			6,000		6,000		
			DNFH	Selway River-Lower	12/2/2023	419,911	119,974	166,158	133,779		17,101	5,101	12,000		
			KNFH/DNFH	Clear Creek	12/2/2023	720,766	120,460	600,306			9,796	3,498	6,298		
Total						2,845,538	481,635	2,230,124	133,779	0	61,091	13,698	47,393	0	0
Spring Grand	Fotal					5,866,477	926,945	4,537,777	333,832	67,923	125,291	55,698	52,393	6,000	11,200
			Sumr	ner											
CFH-LSRCP	SuCS	CFH	Pow	Powell Pond <sup>4</sup>	12/2/2023	435,160	120,124	17,247	119,673	178,116	0				
Summer Grand Total				435,160	120,124	17,247	119,673	178,116	0	0	0	0	0		
Spring and Summer Grand Total					6,301,637	1,047,069	4,555,024	453,505	246,039	125,291	55,698	52,393	6,000	11,200	

#### Table 2.2b. BY2022 SMOLTS - Sp/Su Chinook Salmon Inventory to Date by Mark Type for release in 2024.

<sup>1</sup> The early/late release groups were reared in the unbaffled adult ponds and the regular raceways.

<sup>2</sup> Group originally destined for Lolo release will now be released at NPTH as a Early Release. The Lolo Creek release site is not accessible in 2024.

<sup>3</sup> Groups originally destined for NPTH Early and Late Releases will now be combined into one Late Release.

<sup>4</sup> BY2022 is the last Summer Run cohort to be released at Powell. No PIT tags are being applied to this group since we will not need to manage broodstock needs when they return as adults.

<sup>5</sup> Dworshak release includes 198,488 Southern Resident Killer Whale program smolts

Hatchery	Rearing	Brood Collection	Life	Release Site <sup>1</sup>	Inventory To Date		To Date Release G		Release Goals Project		ed Releases	
Program	Facility	Site	Stage	Release Site				Size			Size	
		5110			Date	Number	Number	(FPP)	Dates	Number	(FPP)	
				Sj	oring							
NPTHC	NPTH	NPTHC	Pre-Smolt	Newsome Cr (SF Clw)	12/1/2023	87,868	75,000	30.0	10/16/2024	86,868	30.0	
INF THC		NETTIC	Pre-Smolt	Lolo Cr (SF Clw)	12/1/2023	0	150,000	30.0		0	30.0	
Total						87,868	225,000			86,868		

 Table 2.2c.
 BY2023 PRE-SMOLT - Sp/Su Chinook Salmon inventories by life stage, release goals and projected releases in 2024.

<sup>1</sup> Relase site undetermined due to shortage from high BKD culling. Will be evaluated upon survival data

### 2.2.2. Releases in 2024 (Smolt BY 2022, Pre-Smolt BY 2023) – 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, antibiotic treatments, was production culled at any point
- Transportation/Releases- e.g. timing, trucking issues, site access etc.

	Plan fo	or 2024	Changes/Conditions that	t Occurred 2023-Ea	rly 2024
Release Location	Release Target Smolt BY22 Pre-Smolt BY23	Transport/Release Smolt BY22 Pre-Smolt BY23	Fish Feeding Smolt BY22 Pre-Smolt BY23	Fish/Egg Health Smolt BY22 Pre-Smolt BY23	Marking Smolt BY22 Pre-Smolt BY23
	Dworshak National I	Fish Hatchery (SOP Se	ction 2.2)		
NF Clearwater- DNFH (Dwor)	Due to egg loss during incubation the target goal for SRKW SCS was changed from 500k to 200k.	NC	There was a feed study conducted for the SCS Early and Late release groups. BioClark #2 crumb, 1.5 and 2.0 are being compared with BioVita #2 crumb, 1.5 and 2.0 sizes. The feed is split up evenly in the raceways with each feed type being consumed by 15 raceways each. It is also broken up evenly by Early and late group	NC	NC
	Kooskia National Fis	h Hatchery (SOP Secti	ions 2.3)		
Kooskia National Fish Hatchery (Koosk)	Early fry mortality due to chiller failure delays chiller start. appr 50,000 mortality	NC	NC	NC	NC
	Nez Perce Tribal Hat	chery (SOP Section 2.4	4)		
Nez Perce Tribal Hatchery (Dwor Smolt transferred to NPTH from DNFH)	NC	NC	NC	NC	PIT tags increased from 3,200 to 5,600.

	Plan fo	or 2024	Changes/Conditions that	t Occurred 2023-Ea	arly 2024
Release Location	Release Target Smolt BY22 Pre-Smolt BY23	Transport/Release Smolt BY22 Pre-Smolt BY23	Fish Feeding Smolt BY22 Pre-Smolt BY23	Fish/Egg Health Smolt BY22 Pre-Smolt BY23	Marking Smolt BY22 Pre-Smolt BY23
Lapwai Creek (Dwor Smolt transferred to NPTH from DNFH)	NC	NC	NC	NC	Additional PIT tags were provided changing the number from 600 to 5,000.
Lolo Creek (NPTH-Smolt)	NC	Release will occur on station at NPTH	NC	NC	PIT tags increased from 2,000 to 5,600.
Newsome Creek (NPTH-Pre-Smolt)	NC	NC	NC	NC	NC
Lolo Creek (NPTH-Pre-Smolt)	No Release due to high ELISA culls BY23	No Release due to high ELISA culls BY23	No Release due to high ELISA culls BY23	No Release due to high ELISA culls BY23	PIT Tags reallocated
	Clearwater Fish Hat	chery (SOP Sections 2.	5)		
Red River (SFClw )	NC	NC	NC	NC	NC
NF Clearwater- CFH (Baffle) (Dwor)	NC	NC	NC	NC	NC
NF Clearwater- CFH (Regular) (Dwor)	NC	NC	NC	NC	NC
Selway River- Lower (Dwor)	NC	NC	NC	NC	NC
Clear Creek (Dwor/Koos)	NC	NC	NC	NC	NC
Powell (Pow/SFSR Summer)	By2022 is the last year of summer Chinook at CFH	NC	NC	NC	No PIT tags are being applied to this group since we will not need to manage broodstock needs when they return as adults.

### 2.3. Trap Operations and Production Planning for 2024 (Smolt and Pre-Smolt BY 2024)

Action in 2024	Brood/ Release Year	Hatchery Program	Brood Collection Site	Rearing Facility	Release Site	Smolt Release Goal (US v OR)	Smolt Release Goal (Including Additional
		DNFH - LSRCP	DNFH	DNFH	NF Clearwater (DNFH)	1,350,000	1,650,000
		Total	otal				1,650,000
		KNFH-NPT	KNFH	KNFH	Kooskia NFH	650,000	650,000
		Total				650,000	650,000
			DNFH	DNFH	Trans. to NPTH-NPTH	200,000	200,000
		NPTHC	DINFI	DINFI	Trans. to NPTH-Lapwai Creek	200,000	200,000
	01/2024		NPTHC	NPTHC	Lolo Creek	200,000	200,000
Trapping	BY2024 RY2026	Total		600,000	600,000		
	R12020		SFClw		Red River	1,100,000	1,280,000
			DNFH	~	NF Clearwater-CFH (Early)	0	389,000
		CFH-LSRCP	DNFH	CFH	NF Clearwater-CFH (Late)	0	320,000
		CFH-LSKCP	DNFH	™Сгп	Selway River-Lower	400,000	400,000
			KNFH/DNFH		Clear Creek	635,000	720,000
			KNFH/DNFH		Powell Pond (SPR)	640,000	640,000
		Total		·		2,775,000	3,749,000
		Spring Grand 1	Fotal			5,375,000	6,649,000

BY2024 SMOLTS - Spring/Summer Chinook Goals for Release in 2026

### BY2024 PRE-SMOLT - Spring/Summer Chinook Goals for Release in 2026

Action	Brood/ Release Year	Hatchery Program	Life Stage	Collection		Release Site	Smolt Release Goal			
		Spring								
Tranning	BY2024	NPTHC	Pre-Smolt	NPTHC	NPTHC	Newsome Cr (SF Clw)	75,000			
Trapping	RY2025	INF I FIC	Pre-Smolt	NPTHC	INFIE	Lolo Cr (Clw)	150,000			
		Spring Gra	Spring Grand Total							

#### 2.3.1. Trap Operations and Production Planning for 2024 (Smolt and Pre-Smolt BY 2024) - TOTALS

#### **FULL PRODUCTION**

Table 2.3a. 2024 Adult brood stock acquisition schedules for hatchery Sp/Su Chinook Salmon in Clearwater River drainage for FULL PRODUCTION.

		Sprin	σ	
	Dworshak	Kooskia	5 NPTH	Red
Date	Trap	Тгар	Trap	River
2-May				
9-May				
, 16-May			3	
23-May		15	7	
30-May		42	10	
6-Jun		464	46	9
13-Jun		686	72	76
20-Jun		771	121	161
27-Jun		800	157	322
4-Jul	184	971	190	521
11-Jul	530	1,056	239	645
18-Jul	990	1,099	262	692
25-Jul	1,451	1,136	292	702
1-Aug	1,888		308	720
8-Aug	2,303		308	730
15-Aug			328	758
22-Aug			328	853
29-Aug			328	948
5-Sep				948
12-Sep				
19-Sep				
26-Sep				
Total	2,303	1,136	328	948
2024 LGR				
Forecast 1	5,206	2,824	697	1,913

Proporti	on of brood	acquisiti	on over	season									
	n of brood acquisition over season Spring												
	Dworshak	worshak Kooskia NPTH Red											
Date	Trap	Trap	Trap	River									
2-May	0.000	0.000	0.000	0.000									
9-May	0.000	0.000	0.000	0.000									
16-May	0.000	0.000	0.010	0.000									
23-May	0.000	0.013	0.020	0.000									
30-May	0.000	0.037	0.030	0.000									
6-Jun	0.000	0.409	0.140	0.010									
13-Jun	0.000	0.604	0.220	0.080									
20-Jun	0.000	0.679	0.370	0.170									
27-Jun	0.000	0.704	0.480	0.340									
4-Jul	0.080	0.855	0.580	0.550									
11-Jul	0.230	0.929	0.730	0.680									
18-Jul	0.430	0.968	0.800	0.730									
25-Jul	0.630	1.000	0.890	0.740									
1-Aug	0.820	1.000	0.940	0.760									
8-Aug	1.000	1.000	0.940	0.770									
15-Aug	1.000	1.000	1.000	0.800									
22-Aug	1.000	1.000	1.000	0.900									
29-Aug	1.000	1.000	1.000	1.000									
5-Sep	1.000	1.000	1.000	1.000									
12-Sep	1.000	1.000	1.000	1.000									
19-Sep	1.000	1.000	1.000	1.000									
26-Sep	1.000	1.000	1.000	1.000									

<sup>1</sup> 2- and 3-ocean returns only. Dworshak forecast includes Clearwater Hatchery NF Clearwater release and Dworshak NF Clearwater release. Kooskia forecast includes Clearwater Hatchery Clear Creek release and Kooskia Hatchery Clear Creek release.

#### **FULL PRODUCTION**

Hatchery Program	Brood Collection Site	Rearing Facility	Release Site		Green Egg Fecundity	Female Spawn Goal	Male Spawn Goal	Holding Mortality	Total Trapping Goal	Estimated Trapping Dates	Projected Returns to LGR <sup>1</sup>	
				S	pring							
DNFH - LSRCP	DNFH	DNFH	NF Clearwater (DNFH)	2,187,256	3,792	577	577	2.9%	1,189		3,744	
Total				2,187,256		577	577		1,189		3,744	
KNFH-NPT	KNFH	KNFH	Kooskia NFH	851,302	3,150	271	271	10.0%	603		1,045	
Total	•			851,302		271	271		603		1,045	
	DNFH	DNFH	Trans. to NPTH-NPTH	265,122	3,792	70	70	2.9%	145		220	
NPTHC	DINFH	DINFH	Trans. to NPTH-Lapwai Creek	265,122	3,792	70	70	2.9%	145		. 330	
	NPTHC	NPTHC	Lolo Creek	274,141	3,807	73	73	4.5%	153	5/1-9/1		
Total				804,385		213	213		443		330	
	SFClw		Red River	1,565,700	3,484	450	450	5.0%	948	6/15-9/19	1,913	
	DNFH		NF Clearwater-CFH (Early)	475,826	3,484	137	137	5.0%	289	6/15-9/19	1,462	
CFH-LSRCP	DNFH	СЕН	NF Clearwater-CFH (Late)	391,425	3,484	113	113	5.0%	238	6/15-9/19	1,402	
CFH-LSKCP	DNFH	Сгп	Selway River-Lower	489,281	3,484	141	141	5.0%	297	6/15-9/19	981	
	KNFH/DNFH		Clear Creek	880,706	3,484	253	253	5.0%	533	6/15-9/19	1,779	
	KNFH/DNFH Powell Pond (SPR)		782,850	3,484	225	225	5.0%	474	6/15-9/19	1,369		
Total	otal			4,585,788		1,319	1,319		2,779		7,504	
Spring Smolt G	Spring Smolt Grand Total					2,380	2,380		5,014		12,623	

### Table 2.3b. BY 2024 SMOLT - Sp/Su Chinook Spawning and Trapping Plan for FULL PRODUCTION

<sup>1</sup> Forecasts for Kooskia NFH, Selway River-Lower, and Powell Pond include AD clipped and unclipped returns.

### **FULL PRODUCTION**

 Table 2.3c.
 BY 2024 PRE-SMOLT - Sp/Su Chinook Spawning and Trapping Plan FULL PRODUCTION

Hatchery Program	Life Stage	Brood Collection Site	Rearing Facility	Release Site		Green Egg Fecundity	Female Spawn Goal	Male Spawn Goal	Holding Mortality	Total Trapping Goal		Projected Returns to LGR
Spring												
NPTHC	Pre-Smolt	NPTHC	NPTHC	Newsome Cr (SF Clw)	102,803	3,807	28	28	4.5%	59	5/1-9/1	NA
	Pre-Smolt	NPTHC	NPTHC	Lolo Cr (Clw)	205,606	3,807	55	55	4.5%	116	5/1-9/1	NA
Total					308,409		83	83		175		0
Spring Parr/Pre-smolt Grand Total				308,409		83	83		175		0	

#### **FULL PRODUCTION**

Table 2.3d. BY2024 Sp/Su Chinook Spawning and Trapping Plan Summarized by Trapping Facility for FULL PRODUCTION

Brood Collection Site	Female Male Spawn Spawn Goal Goal		Total Trapping Goal	Projected Returns to LGR						
Spring										
DNFH	1,108	1,108	2,303	6,517						
KNFH	524	524	1,136	2,824						
SFClw	450	450	948	1,913						
NPTHC	156	156	328	0						
Pow/KNFH/DNFH	225	225	474	1,369						

#### **BASE US v OR PRODUCTION**

 Table 2.3e.
 2024 Adult brood stock acquisition schedules for hatchery Sp/Su Chinook Salmon in Clearwater River drainage for BASE US v OR

 Descention of brood completion of brood completio

					Proport	tion of broo
		Sprin	g			
	Dworshak	Kooskia	NPTH	Red		Dworshal
Date	Trap	Trap	Trap	River	Date	Trap
2-May					2-May	0.000
9-May					9-May	0.000
16-May			3		16-May	0.000
23-May		14	7		23-May	0.000
30-May		39	10		30-May	0.000
6-Jun		439	46	8	6-Jun	0.000
13-Jun		648	72	65	13-Jun	0.000
20-Jun		729	121	139	20-Jun	0.000
27-Jun	******	756	157	277	27-Jun	0.000
4-Jul	125	917	190	448	4-Jul	0.080
11-Jul	359	997	239	554	11-Jul	0.230
18-Jul	671	1,038	262	595	18-Jul	0.430
25-Jul	983	1,073	292	603	25-Jul	0.630
1-Aug	1,279		308	619	1-Aug	0.820
8-Aug	1,560		308	628	8-Aug	1.000
15-Aug			328	652	15-Aug	1.000
22-Aug			328	734	22-Aug	1.000
29-Aug			328	815	29-Aug	1.000
5-Sep			~~~~~	815	5-Sep	1.000
12-Sep					12-Sep	1.000
19-Sep					19-Sep	1.000
26-Sep					26-Sep	1.000
Total	1,560	1,073	328	815		
2024 LGR						
Forecast <sup>1</sup>	5,206	2,824	330	1,913		

Proportion of brood acquisition over season										
		Sprin	g							
	Dworshak	Kooskia	NPTH	Red						
Date	Trap	Trap	Trap	River						
2-May	0.000	0.000	0.000	0.000						
9-May	0.000	0.000	0.000	0.000						
16-May	0.000	0.000	0.010	0.000						
23-May	0.000	0.013	0.020	0.000						
30-May	0.000	0.037	0.030	0.000						
6-Jun	0.000	0.409	0.140	0.010						
13-Jun	0.000	0.604	0.220	0.080						
20-Jun	0.000	0.679	0.370	0.170						
27-Jun	0.000	0.704	0.480	0.340						
4-Jul	0.080	0.855	0.580	0.550						
11-Jul	0.230	0.929	0.730	0.680						
18-Jul	0.430	0.968	0.800	0.730						
25-Jul	0.630	1.000	0.890	0.740						
1-Aug	0.820	1.000	0.940	0.760						
8-Aug	1.000	1.000	0.940	0.770						
15-Aug	1.000	1.000	1.000	0.800						
22-Aug	1.000	1.000	1.000	0.900						
29-Aug	1.000	1.000	1.000	1.000						
5-Sep	1.000	1.000	1.000	1.000						
12-Sep	1.000	1.000	1.000	1.000						
19-Sep	1.000	1.000	1.000	1.000						
26-Sep	1.000	1.000	1.000	1.000						

<sup>1</sup> 2- and 3-ocean returns only. Dworshak forecast includes Clearwater Hatchery NF Clearwater release and Dworshak NF Clearwater release. Kooskia forecast includes Clearwater Hatchery Clear Creek release and Kooskia Hatchery Clear Creek release.

#### **BASE US v OR PRODUCTION**

Hatchery Program	Brood Collection	Rearing Facility	Release Site	Green Egg Goal	Green Egg	Female Spawn	Male Spawn	Holding Mortality	Total Trapping		Projected Returns to	
Site					Fecundity	Goal	Goal		Goal	Dates	LGR <sup>1</sup>	
				Sp	oring			I.	1	1	1	
DNFH - LSRCP	DNFH	DNFH	NF Clearwater (DNFH)	1,789,573	3,792	472	472	2.9%	973		3,744	
Total				1,789,573		472	472		973		3,744	
KNFH-NPT	KNFH	KNFH	Kooskia NFH	851,302	3,150	271	271	10.0%	603		1,045	
Total				851,302		271	271		603		1,045	
	DNFH	DNFH	Trans. to NPTH-NPTH	265,122	3,792	70	70	2.9%	145		330	
NPTHC		DINFI	Trans. to NPTH-Lapwai Creek	265,122	3,792	70	70	2.9%	145		550	
	NPTHC	NPTHC	Lolo Creek	274,141	3,807	73	73	4.5%	153	5/1-9/1		
Total				804,385		213	213		443		330	
	SFClw		Red River	1,345,523	3,484	387	387	5.0%	815	6/15-9/19	1,913	
	DNFH		NF Clearwater-CFH (Baffle)	0	3,484	0	0	5.0%	0		1,462	
CFH-LSRCP	DNFH	CFH	NF Clearwater-CFH (Regular)	0	3,484	0	0	5.0%	0		1,402	
CFII-LSKCP	DNFH	Сгп	Selway River-Lower	489,281	3,484	141	141	5.0%	297	6/15-9/19	981	
	KNFH/DNFH		Clear Creek	776,734	3,484	223	223	5.0%	470	6/15-9/19	1,779	
KNFH/DNFH			Powell Pond (SPR)	782,850	3,484	225	225	5.0%	474	6/15-9/19	1,369	
Total			3,394,388		976	976		2,056		7,504		
Spring Smolt G	Frand Total			6,839,648		1,932	1932		4,075		12,623	

Table 2.3f. BY 2024 SMOLT - Sp/Su Chinook Spawning and Trapping Plan for BASE US v OR PRODUCTIO	ЛС

<sup>1</sup> Forecasts for Kooskia NFH, Selway River-Lower, and Powell Pond include AD clipped and unclipped returns.

#### **BASE US v OR PRODUCTION**

 Table 2.3g.
 BY 2024 PRE-SMOLT - Sp/Su Chinook Spawning and Trapping Plan BASE US v OR PRODUCTION.

Hatchery Program	Life Stage	Brood Collection Site	Rearing Facility	Release Site	Green Egg Goal	Green Egg Fecundity	Female Spawn Goal	Male Spawn Goal	Holding Mortality	Total Trapping Goal	Estimated Trapping Dates	Projected Returns to LGR
	Spring											
NPTHC	Pre-Smolt	NPTHC	NPTHC	Newsome Cr (SF Clw)	102,803	3,807	28	28	4.5%	59	5/1-9/1	NA
NPIAC	Pre-Smolt	NPTHC	NPIEC	Lolo Cr (Clw)	205,606	3,807	55	55	4.5%	116	5/1-9/1	NA
Total	Total						83	83		175		0
Spring Smo	Spring Smolt Grand Total						83	83		175		0

### **BASE US v OR PRODUCTION**

 Table 2.3h.
 BY 2024 Sp/Su Chinook Spawning and Trapping Plan Summarized by Trapping Facility for BASE US v OR PRODUCTION

Brood Collection Site	Female Spawn	Male Spawn	Total Trapping	Projected Returns					
	Goal	Goal	Goal	to LGR					
Spring									
DNFH	753	753	1,560	6,517					
KNFH	494	494	1,073	2,824					
SFClw	387	387	815	1,913					
NPTHC	156	156	328	0					
Pow/KNFH/DNFH	225	225	474	1,369					

## 2.3.2. Trap Operations and Production Planning for 2024 (Smolts and Pre-Smolt BY2024) – 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			Plan for 2024 (BY 2024	ł)	
Release Location	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults
	Dworshak National	l Fish Hatchery Ladder	/Trap (SOP Section 2.2)		
NF Clearwater- DNFH (Dwor)	NC	NC	No SRKW	NC	NC
Nez Perce Tribal Hatchery (Dwor-Smolt)	NC	NC	NC	NC	NC
Lolo (Dwor-Smolt)	NC	NC	NC	NC	NC
NF Clearwater- CFH (Baffle) (Dwor)	NC	NC	NC	NC	NC
NF Clearwater- CFH (Regular) (Dwor)	NC	NC	NC	NC	NC
Selway River Lower (Dwor)	NC	NC	NC	NC	NC
Clear Creek (Dwor)	NC	NC	NC	NC	NC
	Kooskia National Fi	sh Hatchery Trap (SOI	P Sections 2.3)		
Kooskia National Fish Hatchery (Koos)	NC	NC	Trapping of more adults due to low fecundity	NC	NC

Juvenile		Plan for 2024 (BY 2024)								
Release Location	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults					
Clear Creek (Koos)	NC	NC	NC	NC	NC					
	Nez Perce Tribal Ha	tchery Trap (SOP Secti	on 2.4)							
Lolo Creek (NPTH-Pre-Smolt)	NC	NC	NC	NC	NC					
Lolo Creek (NPTH-Smolt)	NC	NC	NC	NC	NC					
	Red River and Croo	ked River Traps (SOP S	ection 2.5)							
Red River (SFClw)	NC	NC	NC	NC	NC					
	Powell Trap (SOP Se	ection 2.5)								
Powell-Spring and summer (Pow/Koos/Dwor)	NC	NC	Goal for Summer Chinook is zero for BY2024.	NC	Will collect clipped spring Chinook for broodstock, all unclipped summer Chinook will be recycled					

### 2.4. Early Rearing and Marking Plan for 2024 (Smolts BY 2023, Pre-Smolt BY2023)

Action in 2024	Brood/ Release Year	Hatchery Program	Preferred Collection Site	Rearing Facility	Release Site	Smolt Release Goal
			-	Sp	pring	
		DNFH - LSRCP	DNFH	DNFH	NF Clearwater (DNFH)	1,650,000
		Total				1,650,000
		KNFH-NPT	KNFH	KNFH	Kooskia NFH	650,000
		Total				650,000
	DV2022		DNFH		Trans. to NPTH-NPTH	200,000
		NPTHC	DNFH	NPTH	Trans. to NPTH-Lapwai Creek	200,000
Early			NPTHC		Lolo Creek	200,000
Rearing and	BY2023 RY2025	Total			600,000	
Marking	R12025		SFClw		Red River	1,280,000
			DNFH		NF Clearwater-CFH (Early)	389,000
		CFH-LSRCP	DNFH	CFH	NF Clearwater-CFH (Late)	320,000
			DNFH	СГП	Selway River-Lower	400,000
			KNFH/DNFH		Clear Creek	720,000
			KNFH/DNFH		Powell Pond (SPR)	640,000
		Total			3,749,000	
		Spring Grand To	otal			6,649,000

### BY2023 SMOLTS - Spring/Summer Chinook Goals for Release in 2025

#### BY2023 PRE-SMOLT - Spring Chinook Goals for Release in 2024

Action in 2024	Brood/ Release Year	Hatchery Program	Life Stage	Preferred Collection Site	Rearing Facility	Release Site	Smolt Release Goal		
Early		Spring							
Rearing,	DV2022	NPTHC	NPTHC	NPTH	NPIH	Newsome Cr (SF Clw)	75,000		
Marking	BY2023 RY2024	NPIEC	NPTHC			Lolo Cr (Clw)	150,000		
and	RY2024	Total	Total						
Release		Spring Grand Total							

### 2.4.1. Early Rearing and Marking Plan for 2024 (Smolts BY 2023, Pre-Smolt BY2023) – TOTALS

Hatchery		Preferred	Rearing		Release	Size	Inver	tory to Date	
Program	Run	Collection Site	Facility	Release Site	Goals for 2025	(FPP)	Date	Goal <sup>1</sup>	Actual
				Spring					
DNFH	SpCS	DNFH	DNFH	NF Clearwater (DNFH)	1,650,000	20.0	12/1/2023	1,829,301	1,829,301
Totals				1,650,000	20.0		1,829,301	1,829,301	
KNFH	SpCS	KNFH	KNFH	Kooskia NFH	650,000	20.0	12/12/2023	675,000	628,819
Totals					650,000			675,000	628,819
		DNFH		Trans. to NPTH-NPTH	200,000	20.0	12/1/2023	204,000	223,929
NPTHC	SpCS	DNFH	NPTH	Trans. to NPTH-Lapwai Creek	200,000	20.0	12/1/2023	204,000	89,516
		NPTHC		Lolo Creek	200,000	20.0	12/1/2023	200,000	204,785
Totals		-		•	600,000			608,000	518,230
		SFClw		Red River	1,280,000	16.0	12/1/2023	1,325,052	1,227,280
		DNFH		NF Clearwater-CFH (Early)	389,000	16.0	12/1/2023	402,692	375,552
CFH	SpCS	DNFH	CFH	NF Clearwater-CFH (Late)	320,000	16.0	12/1/2023	331,263	309,655
СГП	spes	DNFH	CFH	Selway River-Lower	400,000	16.0	12/1/2023	414,079	387,084
		KNFH/DNFH		Clear Creek	720,000	16.0	12/1/2023	745,342	692,516
		KNFH/DNFH		Powell Pond (SPR)	640,000	16.0	12/1/2023	700,219	605,300
Totals	Totals							3,918,647	3,597,387
Spring Grar	d Total				6,649,000			7,030,948	6,573,737

 Table 2.4a. BY 2023 Sp/Su Chinook Salmon - Early Rearing Inventory for smolt releases in 2025 (including anticipated set out)

<sup>1</sup> Estimated fish needed in vats to reach eventual smolt release goals, based on brood calculator exclusive of the buffer.

Hatchery		Preferred	Rearing		Release	Likely Marking	Inventory	to Data	Р	rojected	Markin	g		Proje	cted PIT	Tags	
Program	Run	Collection	Facility	Release Site	Goals for	Date(s)	inventory		Adipose	Adipose Fin Clip		No Clip		Total # Funding Sou		Source	2
Fillerin	Site		raciiity		2025	Date(s)	Date	Number	No CWT	СМТ	CWT	No CWT	Tags	CSS	LSRCP	USFWS	BPA
						Spi	ring										
DNFH	SpCS	DNFH	DNFH	NF Clearwater (DNFH)	1,650,000	9/4-9/23/2024	12/1/2023	1,829,301	1,546,493	120,000			42,000	42,000			
Totals					1,650,000			1,829,301	1,546,493	120,000	0	0	42,000	42,000	0	0	0
KFH	SpCS	KNFH	KNFH	Kooskia NFH	650,000	5/20/2024	12/12/2023	628,819		100,000		55,000	6,000			6,000	
Totals					650,000			628,819	0	100,000	0	55,000	6,000	0	0	6,000	0
		DNFH		Trans. to NPTH-NPTH	200,000	8/19/2024	12/1/2023	223,929	163,929	60,000	0	0	3,200				3,200
NPTHC	SpCS	DNFH	NPTH	Trans. to NPTH-Lapwai Creek	200,000	9/3-9/13/2024	12/1/2023	89,516	29,516	60,000	0	0	5,000		5,000		
	NPTHC	NPTHC		Lolo Creek	200,000	6/24/2024	12/1/2023	204,785	0	0	204,785	0	2,000				2,000
Totals					600,000			518,230	193,445	120,000	204,785	0	10,200	0	5,000	0	5,200
		SFClw		Red River	1,280,000	04/29-05/17/2024	12/1/2023	1,227,280	1,107,280	120,000			17,100	5,100	12,000		
		DNFH		NF Clearwater-CFH (Early)	389,000	04/29-05/17/2024	12/1/2023	375,552	315,552	60,000			8,800		8,800		
CFH	5-00	DNFH	CFH	NF Clearwater-CFH (Late)	320,000	04/29-05/17/2024	12/1/2023	309,655	249,655	60,000			8,200		8,200		
СГП	SpCS	C DNFH KNFH/DNFH		Selway River-Lower	400,000	04/29-05/17/2024	12/1/2023	387,084	147,089	120,000	119,995		17,100	5,100	12,000		
				Clear Creek	720,000	04/29-05/17/2024	12/1/2023	692,516	572,516	120,000			9,800	3,500	6,300		800000000000000000000000000000000000000
		KNFH/DNFH		Powell Pond (SPR)	640,000	04/29-05/17/2024			485,300	120,000			12,000		12,000		
Totals	Totals			3,749,000			2,992,087	2,877,392	600,000	119,995	0	73,000	13,700	59,300	0	0	
Spring Gra	nd Tot	al			6,649,000			5,968,437	4,617,330	940,000	324,780	55,000	131,200	55,700	64,300	6,000	5,200

 Table 2.4c.
 BY2023 PRE-SMOLT - Sp Chinook Salmon Inventory to Date by Projected Mark Type for release in 2024.

		Preferred			Inventory	to Date	Project	ed Mark	king & T	agging	<b>PIT Tags</b>								
Hatchery Program	Run/ Life Stage	Collection	Rearing Facility	Release Site <sup>1</sup>	Date	Total	Adipose F	in Clip	No	Clip         F           No CWT         0           0         0           0         0	Funding Source								
		Site					No CWT	CWT	CWT	No CWT	BPA								
NPTH	NPTHC	- NPTH	NPTH	NPTH	NPTH	NPTH	NPTH				NPTH	Newsome Cr (SF Clw)	12/1/2023	87,868	0	0	87,868	0	3,000
	NPTHC									NPIN		Lolo Cr (Clw)	12/1/2023	0	0	0	0	0	0
Total						87,868	0	0	87,868	0	3,000								
Spring Gra	Spring Grand Total					87,868	0	0	87,868	0	3,000								

<sup>1</sup> No Lolo Creek release due to shortage from high BKD culling BY23.

### 2.4.2. Early Rearing and Marking Plan for 2024 (Smolts BY 2023, Pre-Smolt BY2023) – 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 fish health issues, action 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.
- **Current Inventory** . If projected marking lines up with the current inventory, then no comment is needed at this bullet (enter NC). If current inventory is significantly above or below the projected numbers, then explain why.

		Plan for 202	4 (Smolts BY 2023, Pre-	-Smolt BY2023)	
Release Location	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking	Meets Release Target
	Dworshak Nation	al Fish Hatchery (SOP Se	ection 2.2)		
NF Clearwater- DNFH (Dwor)	NC	Utilize Bio Clark 1.5, 2.0	NC	NC	NC
Nez Perce Tribal Hatchery (Dwor)	NC	NC	NC	NC	NC
Lapwai Creek (Dwor)	NC	NC	NC	NC	projected number is 89,516 due to brood shortage and loss
	Kooskia National	Fish Hatchery (SOP Sect	ions 2.3)		
Kooskia National Fish Hatchery (Koos)	NC	NC	NC	NC	NC
	Nez Perce Tribal F	latchery (SOP Section 2.	4)		
Lolo Creek (NPTH-Pre-Smolt)	No Release due to high ELISA culls BY23	No Release due to high ELISA culls BY23			
Newsome Creek (NPTH-Pre-Smolt)	NC	NC	NC	NC	NC

	Plan for 2024 (Smolts BY 2023, Pre-Smolt BY2023)						
Release Location	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking	Meets Release Target		
Lolo Creek (NPTH-Smolt)	NC	NC	NC	NC	NC		
	Clearwater Fish H	atchery (SOP Sections 2.5	5)				
Red River (SFClw)	NC	NC	NC	NC	NC		
NF Clearwater - Baffle (Dwor)	NC	NC	NC	NC	NC		
NF Clearwater – Regular (Dwor)	NC	NC	NC	NC	NC		
Selway River-Lower (Dwor)	NC	NC	NC	NC	NC		
Clear Creek (Koos/Dwor)	NC	NC	NC	NC	NC		
Powell-Spring (Koos/Dwor)	NC	NC	NC	NC	Short of smolt target by 12% due to lack of broodstock		

## 3. Coho Salmon

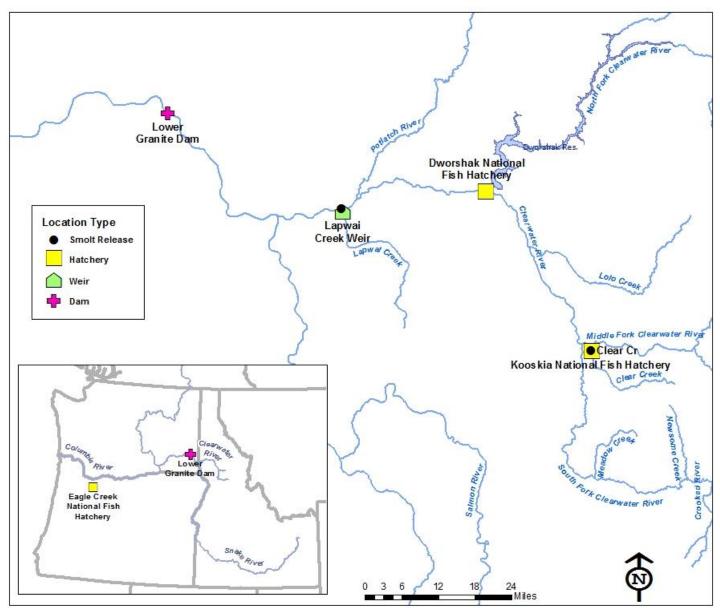
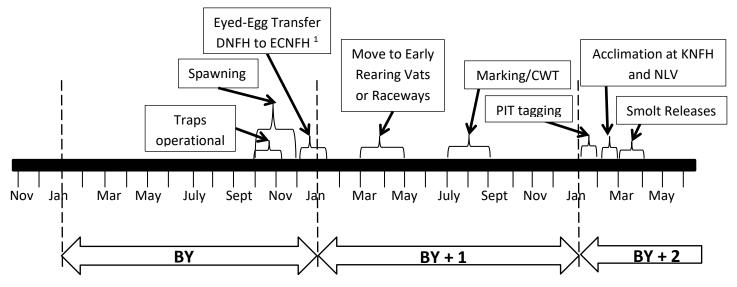


Figure 3.1. Coho trapping, hatchery facilities and smolt release locations.

Hatchery Program	Species	Brood Collection Site	Rearing Facility	Release Site	2024 Smolt Release Goal		
NPT	Coho	LAP, DNFH, KNFH, LGR	DNFH	Clear Creek	500,000		
Total					500,000		
NPT	Coho	LAP, DNFH, KNFH, LGR	ECNFH	Lapwai Creek	275,000		
INPT	Coho	LAP, DINFH, KINFH, LGK	ECINFI	Clear Creek	275,000		
Total					550,000		
Grand Tota	l						

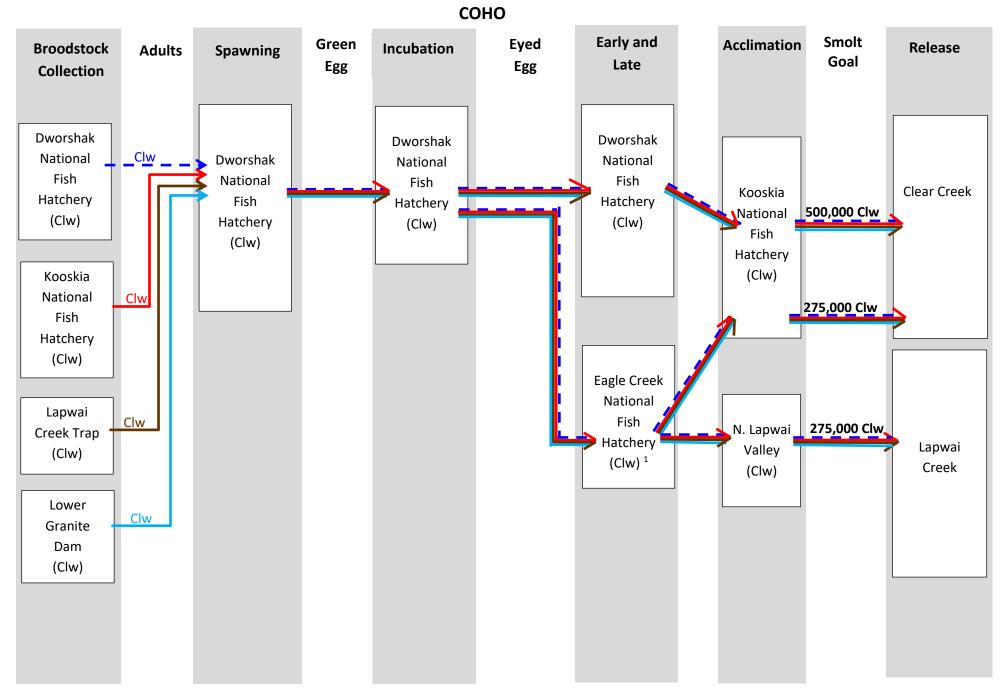
Table 3.1. BY2022 SMOLTS - Coho Release Goals for 2024

### 3.1. Timeline and Flowchart for Coho Production



<sup>1</sup>Starting BY23, all Coho eggs will be reared at DNFH

**Figure 3.2.** Timeline for Coho Production. Date ranges with black labels are shown to include all facilities' operations.



<sup>1</sup> Beginning BY23, Coho eggs will not be transferred down to Eagle Creek NFH for rearing. BY23 Coho will be reared at Dworshak NFH. This is due to shortfall in Mitchell Act funding and the uncertainty of Eagle Creek NFH operation into the future.

Figure 3.3. Coho movements in Clearwater. Numbers represent BY2024 releases.

#### 3.2. Releases in 2024 (Smolt BY 2022)

#### 3.2.1. Releases in 2024 (Smolt BY 2022) – Totals

Rearing Facility Spe	Species	Brood Collection Site	Rearing Facility	Release Site	Inventor	y To Date	Release	Goals	Projected	l Smolt Rel	ease
			Facility		Date	Number	Number	(FPP)	Dates	Number	(FPP)
NPT	Coho	LAP, DNFH, KNFH, LGR	DNFH	Clear Creek	12/1/2023	699,710	500,000	35.6	4/11/2024	690,000	20.0
Total						699,710	500,000			690,000	
ECNFH	Coho	LAP, DNFH, KNFH, LGR	ECNFH	Lapwai Creek	12/6/2023	290,122	275,000	28.0	3/29/2024	285,000	20.0
	Coho	LAP, DINFH, KINFH, LGK	ECINFIT	Clear Creek	12/6/2023	295,450	275,000	28.0	4/11/2024	290,000	20.0
Total				585,572	550,000			575,000			
Grand Tota	1			1,285,282	1,050,000			1,265,000			

 Table 3.2a. BY2022 SMOLTS - Coho Salmon inventories by life stage, smolt release goals, and projected releases in 2024.

#### **Table 3.2b.** BY2022 SMOLTS - Coho Salmon Inventory to Date by Mark Type for release in 2024.

							PIT Tags					
Rearing	Species	<b>Brood Collection</b>	Rearing	Release Site			Adipose I	in Clip	No Clip		FILTAgs	
Facility	Species	Site	Facility		Date	Date	Total					Total # Tags
							No CWT	CWT	CWT	No CWT	(Mitchell Act)	
NPT	Coho	AP, DNFH, KNFH, LGR DNFH		Clear Creek	12/1/2023	699,710	0	0	64,583	635,127	5,000	
Total						699,710	0	0	64,583	635,127	5,000	
ECNFH	Coho	LAP, DNFH, KNFH, LGR		Lapwai Creek	12/6/2023	290,122	0	0	30,000	260,122	5,000	
	Coho	LAF, DINFH, KINFH, LOK	LCINFII	Clear Creek	12/6/2023	295,450	0	0	30,000	265,450	5,000	
Total	Total						0	0	60,000	525,572	10,000	
Grand Tota				1,285,282	0	0	124,583	1,160,699	15,000			

#### 3.2.2. Releases in 2024 (Smolt BY 2022) – 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.

	Plan f	or 2024	Changes/Conditions that Occurred 2023-Early 2024									
Location	Release Target Smolt BY22	Transport/Release Smolt BY22	Fish Feeding Smolt BY22	Fish/Egg Health Smolt BY22	Marking Smolt BY22							
	Dworshak National Fish Hatchery (SOP Section 3.2)											
Clear Creek - DNFH (Clw)	NC	NC	NC NC NC									
	Eagle Creek National F	ish Hatchery (SOP Section	n 3.3)									
Lapwai Creek (Clw)	NC	NC	NC	NC	NC							
Clear Creek (Clw)	NC	NC	NC	NC	NC							

3.3. Trap Operations and Production Planning for 2024 (Smolt BY 2024)

#### 3.3.1. Trap Operations and Production Planning for 2024 (Smolt BY 2024) – TOTALS

Table 3.3a. BY 2024 SMOLTS - Coho Smolt Production Goals for Release in 2026.

					2026
Hatchery Program	Creation	Brood Collection Site	Rearing	Release Site	Smolt
	species	Brood Collection Site	Facility	Release Sile	Release
					Goal
NPT	Coho	LAP, DNFH, KNFH, LGR	DNFH	Lapwai Creek	275,000
	Coho			Clear Creek	775,000
Total					1,050,000
Grand Total					1,050,000

#### 3.3.2. Trap Operations and Production Planning for 2024 (Smolts 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".

		Plan for 2024 (BY 2024)									
Location	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults						
	Primary Trapp	ing Facilities (SOP Sec	tion 3.2) <sup>1</sup>								
Kooskia National Fish Hatchery Trap (Clw)	NC	NC	NC	NC	NC						
Lapwai Creek Trap (Clw)	NC	NC	NC	NC	NC						
	Secondary Tra	oping Facilities (SOP S	Section 3.2) <sup>1</sup>								
Dworshak National Fish Hatchery Trap (Clw)	NC	NC	NC	NC	NC						
Lower Granite Dam (Clw)	NC	NC	NC	NC	NC						

<sup>1</sup> If broodstock collection at primary and secondary trapping locations falls short of goals, green eggs from Eagle Creek National Fish hatchery and/or Kalama Fish Hatchery may be used as a source.

#### 3.4. Early Rearing and Marking Plan for 2024 (Smolts BY 2023)

Hatchery Program	Species	Brood Collection Site	Rearing Facility	Release Site	2025 Smolt Release Goal
NPT	Coho	LAP, DNFH, KNFH, LGR	DNFH	Lapwai Creek	275,000
INFI	Coho	LAP, DIVITI, KNITI, LOK	DINITI	Clear Creek	775,000
Total				-	1,050,000
Grand Tota	l				1,050,000

#### BY2023 SMOLTS - Coho Release Goals for 2025

#### 3.4.1. Early Rearing and Marking Plan for 2024 (Smolts BY 2023) - TOTALS

Table 3.4a. BY 2023 Coho - Early Rearing Inventory (including anticipated set out)

Rearing		Stock	Inventory to Date					
Hatchery	Species			Goal <sup>1</sup>	Actual			
DNFH	Coho	Clw						

<sup>1</sup>Estimated fish needed in vats to reach eventual smolt release goals, based on brood calculator

Table 3.4b	BY 2023 SMOLTS	<ul> <li>Coho Projected Marki</li> </ul>	ing of BY 2023 fish in 2024
------------	----------------	--	-----------------------------

Lietaham			Dearing		Likely	Release			F	Projected	l Marking	5		PIT Tags 1	
Hatchery Program	Species	<b>Brood Collection Site</b>	Rearing Facility	Release Site	Marking	Goals for	Inventor	ry to Date	Adipose	Fin Clip	No	Clip	Total #	Funding	Source
Flogram			гасти		Date(s)	2025	Date	Number	СМТ	сwт	сwт	CWT	Tags	Act	
NPT	Coho	LAP. DNFH. KNFH. LGR	DNFH	Lapwai Creek		275,000					30,000		5,000	5,000	
INFI	Coho	LAP, DINITI, KINITI, LOK		Clear Creek		775,000					90,000		10,000	10,000	
Total						1,050,000		0	0	0	120,000	0	15,000	15,000	0
Grand Tot	tal					1,050,000		0	0	0	120,000	0	15,000	15,000	0

<sup>1</sup> PIT Tagging occurs in spring 2025

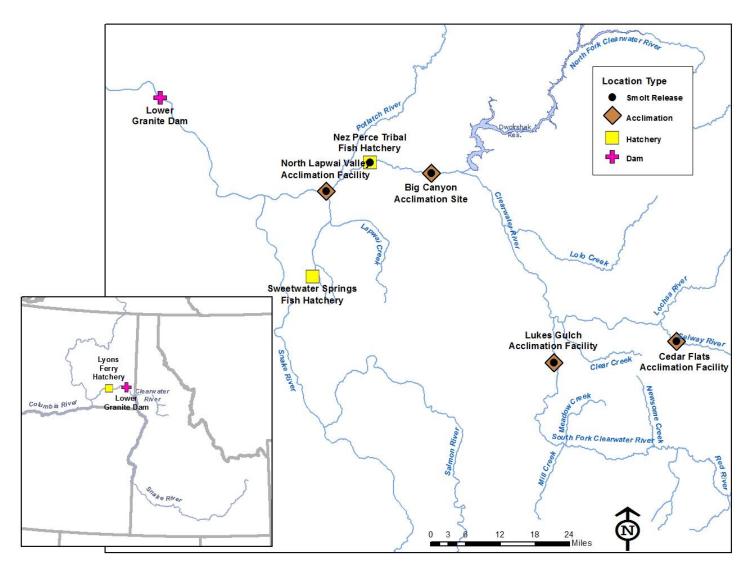
#### 3.4.2. Early Rearing and Marking Plan for 2024 (Smolts BY 2023) – NARRATIVE

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 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.
- **Current Inventory** . If projected marking lines up with the current inventory, then no comment is needed at this bullet (enter NC). If current inventory is significantly above or below the projected numbers, then explain why.

Release		Plan for 2024 (Smolts BY 2023)									
Location	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking	Meets Release Target						
	Dworshak National	Fish Hatchery (SOP Sec	tion 3.2)								
Clear Creek (Clw)	NC	NC	Beginning in BY23, coho will be reared at Dworshak Hatchery instead of Eagle Creek NFH	NC	NC						
Lapwai Creek (Clw)	NC	NC	Beginning in BY23, coho will be reared at Dworshak Hatchery instead of Eagle Creek NFH	NC	NC						

# 4. Fall Chinook



**Figure 4.1.** Fall Chinook Salmon hatchery and acclimation facilities, and sub-yearling release locations.

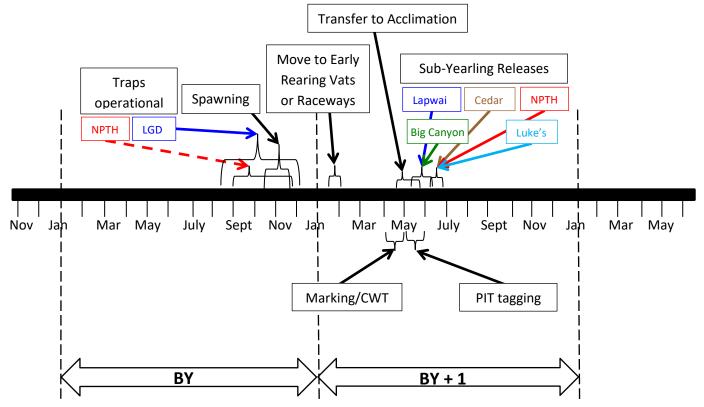
**Table 4.1.** Fall Chinook Goals for Release in 2024

**BY2023 SUB-YEARLINGS** 

Hatchery Program	Brood Collection Site	Rearing Facility	Release Site	Sub- Yearling Release
NPT	SnakeR	Lyons Ferry	Big Canyon Creek 1	450,000
	Shaken	Lyons reny	big carryon creek I	200,000
Total	Total			650,000
	SnakeR		NPTH	600,000
NPT	SnakeR	NPTH	N Lapwai Valley	250,000
	SnakeR	INFILL	Lukes Gulch	300,000
SnakeR			Cedar Flats	250,000
Total				1,400,000
Grand Tota	1			2,050,000

<sup>1</sup> Two separate release goals at Big Canyon Creek (different release dates)

#### 4.1. Timeline and Flowchart for Fall Chinook Production



**Figure 4.2.** Timeline for Sub-Yearling Fall Chinook Production. Date ranges with black labels are shown to include all facilities' operations. Color-coded labels identify activities that have variability in timing for the different facilities.

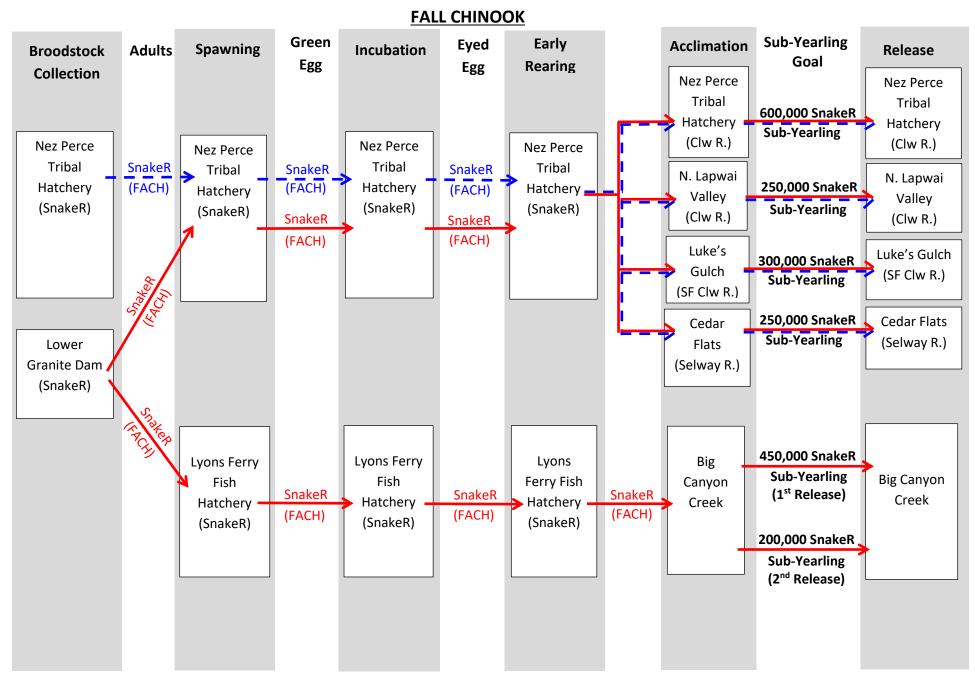


Figure 4.3. Fall Chinook movements in Clearwater. Numbers represent 2024 releases.

#### 4.2. Releases in 2024 (Sub-Yearling BY 2023)

#### 4.2.1. Releases in 2024 (Sub-Yearling BY 2023) – Totals

Hatchery Prtogram	Species	Brood Collection	Rearing	Release Site	Inventory	Inventory To Date Rele		Release Goals		Projected Sub-Yearling Release			
		Site	Facility		Date	Number	Number	(FPP)	Dates	Number	(FPP)		
NPT	FACH	SnakeR			12/31/2023	455,000	450,000	50.0	5/8/2024	450,000	50.0		
INPI	ГАСП	Shakek	Lyons Ferry	Big Canyon Creek	12/31/2023	205,000	200,000	50.0	5/31/2024	200,000	50.0		
Total	Total					660,000	650,000			650,000			
	FACH	SnakeR		NPTH	12/15/2023	710,890	600,000	50.0	6/12/2024	708,890	50.0		
NDT	FACH	SnakeR	NPTH	NIDTU		N Lapwai Valley	12/15/2023	287,649	250,000	50.0	5/15/2024	286,649	50.0
NPT	FACH	SnakeR		Lukes Gulch	12/15/2023	291,906	300,000	50.0	6/11/2024	290,906	50.0		
	FACH	SnakeR		Cedar Flats	12/15/2023	255,469	250,000	50.0	6/10/2024	254,469	50.0		
Total						1,545,914	1,400,000			1,540,914			
Grand Tota						2,205,914	2,050,000			2,190,914			

Table 4.2a. BY2023 SUB-YEARLINGS - Fall Chinook Salmon inventories by life stage, smolts release goals and projected releases in 2024.

<sup>1</sup> Two separate release goals at Big Canyon Creek (different release dates)

Hatchery		Brood	Rearing		Inventory to Date						PIT Tags		
Program	Species	Collection	Facility	Release Site	Data	Total	Adipose F	in Clip	No	Clip	Total	Funding	Source
		Site			Date	Total	No CWT	СМТ	СМТ	No CWT	# Tags	CSS	BPA
NPT	FACH	SnakeR	Luone Forn	Big Canyon Creek	12/31/2023	455,000	0	200,000	0	255,000	11,100	11,100	
INPT	ГАСП	SHAKER	Lyons Ferry	Dig Callyon Creek	12/31/2023	205,000	0	205,000	0	0	4,500	4,500	
Total						660,000	0	405,000	0	255,000	15,600	15,600	0
	FACH	SnakeR		NPTH	12/15/2023	708,890	0	100,000	0	608,890	4,500		4,500
NPT	FACH	SnakeR	NPTH	N Lapwai Valley	12/15/2023	286,649	0	100,000	0	186,649	4,500		4,500
INP1	FACH	SnakeR	INPIH	Lukes Gulch	12/15/2023	290,906	0	100,000	0	190,906	4,500		4,500
	FACH	SnakeR		Cedar Flats	12/15/2023	254,469	0	100,000	0	154,469	4,500		4,500
Total	Total						0	400,000	0	1,140,914	18,000	0	18,000
Grand Tota				2,200,914	0	805,000	0	1,395,914	33,600	15,600	18,000		

<sup>1</sup> Projected marking numbers because marking/tagging occurs in April/May

#### 4.2.2. Releases in 2024 (Sub-Yearling BY 2023) - 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.

	Pla	n for 2024	Changes/Condition	s that Occurred 202	3-Early 2024
Release Location	Release Target Sub-Yrlng BY23	Transport/Release Sub-Yrlng BY23	Fish Feeding Sub-Yrlng BY23	Fish/Egg Health Sub-Yrlng BY23	Marking Sub-Yrlng BY23
	Nez Perce Tribal H	atchery (SOP Section 4.2)			
Nez Perce Tribal Hatchery (Clw R.)	NC	NC	NC	NC	NC
N. Lapwai Valley (Clw R.)	NC	NC	NC	NC	NC
Luke's Gulch (SF Clw R.)	NC	NC	NC	NC	NC
Cedar Flats (Selway R.)	NC	NC	NC	NC	NC
	Lyons Ferry Fish Ho	atchery (SOP Section 4.3)			-
Big Canyon Creek Sub-Yearling <sup>1</sup>	NC	NC	NC	NC	NC
Big Canyon Creek Sub Yearling <sup>1</sup>	NC	NC	NC	NC	NC

<sup>1</sup> Two separate release goals at Big Canyon Creek (different release dates)

#### 4.3. Trap Operations and Production Planning for 2024

#### **4.3.1.** Trap Operations and Production Planning for 2024 – TOTALS

Hatchery Program	Species	Brood Collection Site	Rearing Facility	Release Site	2026 Sub- Yearling Release Goal
FCAP	FACH	SnakeR	Lvons Ferry	Big Canyon Creek	450,000
		onanon	_, ener en ,	Sig carry on creek	200,000
Total					650,000
	FACH	Snake R.		NPTH	600,000
NPTH	FACH	Snake R.	NPTH	N Lapwai Valley	250,000
	FACH	Snake R.		Lukes Gulch	300,000
	FACH	Snake R.		Cedar Flats	250,000
Total					1,400,000
Grand Tota	al				2,050,000

**Table 4.3a.** BY 2024 SUB-YEARLINGS - Fall Chinook Production Goals for Release in 2025

#### 4.3.2. Trap Operations and Production Planning for 2024 (Sub-Yearling) – 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".

		Plan for 2024 (BY 2024)										
Rearing Location	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults							
	Lower Granite I	Dam Ladder/Trap (SOP	Sections 4.2 and 4.3)									
Nez Perce Tribal Hatchery (SnakeR)	NC	NC	NC	NC	NC							
Lyons Ferry Fish Hatchery – Sub-Yearling (SnakeR)	NC	NC	NC	NC	NC							
	Nez Perce Triba	l Hatchery Trap (SOP S	Section 4.2)									
Nez Perce Tribal Hatchery (SnakeR)	NC	NC	NC	NC	NC							

#### 4.4. Early Rearing and Marking Plan for 2024 (Sub-Yearling BY 2023)

### 4.4.1. Early Rearing and Marking Plan for 2024 (Sub-Yearling BY 2023) – 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 fish health issues, action 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.
- **Current Inventory** . If projected marking lines up with the current inventory, then no comment is needed at this bullet (enter NC). If current inventory is significantly above or below the projected numbers, then explain why.

	Plan for 2024 (Sub-Yearling BY 2023)											
Release Location	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking	Meets Release Target							
	Nez Perce Tribal Hatch	ery (SOP Section 4.2)										
Nez Perce Tribal Hatchery (Clw R.)	NC	NC	NC	NC	NC							
N. Lapwai Valley (Clw R.)	NC	NC	NC	NC	NC							
Luke's Gulch (SF Clw R.)	NC	NC	NC	NC	NC							
Cedar Flats (Selway R.)	NC	NC	NC	NC	NC							
	Lyons Ferry Fish Hatche	ery (SOP Sections 4.3)										
Big Canyon Creek Sub-Yearling <sup>1</sup>	NC	NC	NC	NC	NC							
Big Canyon Creek Sub-Yearling <sup>1</sup>	NC	NC	NC	NC	NC							

<sup>1</sup> Two separate release goals at Big Canyon Creek (different release dates)

# 5. Lamprey

#### 5.1. Releases in 2024 - Narrative

- Release Targets- Release Targets based on maximization of summer collections at Bonneville, The Dalles, and John Day dams which are no longer limited by an allocation cap but seek to trap and collect as many lamprey as possible since trap efficiencies remain low. Now that summer trap collections far exceed the carrying capacity of holding tanks at NPTH, the majority of outplants will be Direct Releases into the mainstem Clearwater River, with Conventional Overwintering decreased due to reduced the carrying-capacity.
- Fish Health- Transferred from USFWS to WDFW and WSU/WADDL (mortalities only)
- Transportation/Releases- Releases of adult lamprey will continue with Direct Releases (trapped current Migration Year fish transported past all eight dams then released back into mainstem river to continue volitional migration) and Conventional Overwintering (trapped fish transported to hatchery and held overwinter in holding tanks then released the following spring in targeted tributaries).

	Plan f	or 2024	Changes/Condition	s that Occurred 202	3-Early 2024
Release	Release Target <sup>1</sup>	Transport/Release	Fish Feeding	Fish Health	Marking
Location					
	Nez Perce Tribal Hatch	nery (SOP Section 5.1)			
Lolo Creek	0				
Orofino Creek	50				
Newsome Creek	25				
Red River	25				
Big Canyon Creek	0				
SF Salmon River	(100- Fall D.R.)				
Johnson Creek	0				
Asotin Creek	50				
Wallowa River	25				
Minam River	25				
Secesh River	(100- Fall D.R.)				
Joseph Creek	50				
Potlatch River	50				
Mainstem		3700			
Clearwater River					
TOTAL RELEASED	300	3700			

<sup>1</sup> Fish have been overwintered at the NPTH unless otherwise noted as a Direct Release.

#### 5.2. Trap Operations for 2024

**5.2.1.** Trap Operations for 2024 - Narrative Trap operation targets based on maximization of summer collections at Bonneville, The Dalles, and John Day dams which are no longer limited by an allocation cap but seek to trap and collect as many lamprey as possible since trap efficiencies remain low.

		Plan for 2024									
Trapping Location	Adult Fish Health	Trap Ops	Trapping target changes	Holding protocol changes	Disposition of adults						
	Primary Trapping F	Facilities (SOP Sections	5.1)								
Bonneville Dam		2500									
John Day Dam		1000									
The Dalles Dam		500									

# 6. Appendices

#### 6.1. Clearwater Brood Calculators

#### 6.1.1. FULL PRODUCTION Brood Calculator

		DROCRAM		тс			HISTORICAL HATCHERY PERFORMANCE METRICS (5-YR AVG)			ICE METI	RICS	FORM CALCULATED VALUES											
		PROGRAM	INPU			COMANAGE R APPROVED	% FEMALES	% MORTALITY		REMAINING AFTER DISEASE	L GREEN	% SURVIVA L EYED	RELEASE			GREEN EGGS BEFORE	FEMALES		TOTAL	D	TRAPPED TO MEET	SMOLTS PER TRAPPED	
			Life	PREFERED TRAPPING	RELEASE GOAL	CUSHION % (1)	IN BROODSTOCK	DURING HOLDING	GREEN EGG	CULLING (2)	TO EYED EGG	EGG TO RELEASE	WITH CUSHION	EYED EGGS	GREEN EGGS	DISEASE	SPAWNE D	MALES SPAWNED	ADULTS SPAWNED	ADULTS NEEDED	1:1 RATIO	ADULTS NEEDED	NOTE
SPECIES	HATCHERY	PROGRAM	Stage	-	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(0)	(P)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	#
		MS Clearwater at DNFH		DNFH	1,200,000	4%	50.0%	7.7%	7,368	91.6%	86.6%	80.6%	1,248,000	1,548,387	1,787,976	1,951,939	265	265	530	575	575	2,170	
	DNFH	Red House Hole - SF Clw		SFClw Angler	400,000	4%	50.0%	7.7%	7,368	91.6%	86.6%	80.6%	416,000	516,129	595,992	650,646	89	89	178	193	193	2,155	
STLHD	DINFH	Clear Creek		DNFH	300,000	4%	50.0%	7.7%	7,368	91.6%	86.6%	80.6%	312,000	387,097	446,994	487,985	67	67	134	146	146	2,137	
		Lolo Creek		SFClw Angler	200,000	4%	50.0%	7.7%	7,368	91.6%	86.6%	80.6%	208,000	258,065	297,996	325,323	45	45	90	98	98	2,122	
	CFH	Clearwater		SFClw Angler	843,000	3%	50.0%	3.5%	7,417	100.0%	87.5%	74.0%	868,290	1,173,365	1,340,988	1,340,988	181	181	362	376	376	2,309	
		NF Clearwater (DNFH)		DNFH	1,650,000	4%	50.0%	2.9%	3.792	90.4%	95.0%	91.5%	1.718.750	1,878,415	1.977.279	2.187.256	577	577	1,154	1,189	1,189	1,446	(3)
	DNFH	Trans. to NPTH-NPTH		DNFH	200,000	4%		2.9%	3,792	90.4%	95.0%	91.5%			239,670	· ·	70	70		145	145	1,437	(0)
		Trans. to NPTH-Lapwai Creek		DNFH	200,000	4%		2.9%	3,792	90.4%	95.0%	91.5%	208,333	227,687	239,670	265,122	70	70		145	145	1,437	(4)
	KNFH	Kooskia NFH		KNFH	650,000	5%		10.0%	3,150	94.5%	94.5%	90.0%	684,211	760,234	804,480	851,302	271	271		603	603	1,135	
		Red River		SFClw	1,280,000	0%	50.0%	5.0%	3,484	91.0%	93.0%	96.6%	1,280,000	1,325,052	1,424,787	1,565,700	450	450	900	948	948	1,350	
		Selway River-Lower		DNFH	400,000	0%	50.0%	5.0%	3,484	91.0%	93.0%	96.6%	400,000	414,079	445,246	489,281	141	141	282	297	297	1,347	
SP/SU CHIN	CFH	Clear Creek		KNFH/DNFH	720,000	0%	50.0%	5.0%	3,484	91.0%	93.0%	96.6%	720,000	745,342	801,443	880,706	253	253	506	533	533	1,351	
CHIN		NF Clearwater-CFH (Early)		DNFH	389,000	0%	50.0%	5.0%	3,484	91.0%	93.0%	96.6%	389,000	402,692	433,002	475,826	137	137	274	289	289	1,346	(5)
		NF Clearwater-CFH (Late)		DNFH	320,000	0%	50.0%	5.0%	3,484	91.0%	93.0%	96.6%	320,000	331,263	356,197	391,425	113	113	226	238	238	1,345	(6)
		Powell Pond (SPR)		KNFH/DNFH	640,000	0%	50.0%	5.0%	3,484	91.0%	93.0%	96.6%	640,000	662,526	712,393	782,850	225	225	450	474	474	1,350	
		Lolo Cr (Clw)	Pre- Smolt	NPTHC	150,000	1%	50.0%	4.5%	3,807	89.0%	90.0%	92.0%	151,515	164,690	182,989	205,606	55	55	110	116	116	1,306	
	NPTHC	Newsome Cr (SF Clw)	Pre- Smolt	NPTHC	75,000	1%	50.0%	4.5%	3,807	89.0%	90.0%	92.0%	75,758	82,345	91,495	102,803	28	28	56	59	59	1,284	
		Lolo Creek		NPTHC	200,000	1%	50.0%	4.5%	3,807	89.0%	90.0%	92.0%	202,020	219,587	243,986	274,141	73	73	146	153	153	1,320	
FACH	NPTHC	Snake River		LGR/NPTH	1,400,000	1%	50.0%	8.0%	4,167	96.0%	90.0%	92.4%	1,414,000	1,529,641	1,699,601	1,770,418	425	425	850	924	924	1,530	
соно	DNFH	Clearwater			500,000	10%	49.3%	15.1%	2,488	97.3%	80.2%	81.2%	550,000	677,090	844,462	868,074	349	359	708	835	810	659	
СОНО	ECFH	Clearwater			550,000	10%	49.3%	15.1%	2,488	97.3%	80.2%	81.2%	605,000	744,799	928,908	954,881	384	396	780	918	892	659	
(1) In the	2013 AOP pr	ocess, the co-managers approved a	10% cu	shion to meet re	elease targets	5						CELL FORMULAS	F*(1+G)	N/(M)	0/(L)	P/(K)	ROUNDUP (Q/J,0)	R/(H)-R	R+S	ROUNDUP (T/(1-I),0)	ROUNDUP( R/(1-H)/(1- I),0)	N/U	

(2) Culling of eggs for BKD, IHN, etc.

(3) Includes the New Production started in BY2015. Added production by increasing densities to 65k in all B-Bank rcwys.

(4) New production started in BY2015, Lolo release group.

(5) NEW PRODUCTION in 2015. First timing rearing smolt in the adult holding ponds

(6) NEW PRODUCTION in 2015. Increasing rearing densities across raceways and spreading the new smolts across release groups

(7) Powell is not a US v OR program; however we will target 640,000 summer Chinook smolts even if the spring Chinook production target is set at the base US v OR level.

#### 6.1.2. US v OR Brood Calculator

	PROGRAM INPUTS						HISTOR	HISTORICAL HATCHERY PERFORMANCE METRICS (5-YR AVG) FORM CALCULATED VALUES								ļ	1						
,,		PROGRAM			,	COMANAGER		%	(5-YK A	AVG) REMAINING AFTER	-	% SURVIVAL	RELEASE			FORIV GREEN EGGS		AIEDVA			ADULTS TRAPPED		
				PREFERED	FORMAL RELEASE	APPROVED CUSHION %	% FEMALES IN	MORTALITY	GREEN EGG	DISEASE CULLING	SURVIVAL GREEN TO	EYED EGG	goal With	EYED	GREEN	BEFORE DISEASE	FEMALES	MALES	TOTAL ADULTS	TRAPPED ADULTS	TO MEET 1:1	T TRAPPED ADULTS	
SPECIES	HATCHERY	Y PROGRAM	Life Stage		GOAL (F)	(1) (G)	BROODSTOCK (H)	( HOLDING (I)	FECUNDITY (J)	(2) (K)	EYED EGG (L)	RELEASE ( (M)	CUSHION (N)	EGGS (O)	EGGS (P)	CULL (Q)	SPAWNED (R)	SPAWNED (S)	SPAWNED (T)	NEEDED	RATIO (V)	NEEDED (W)	NOTE #
	-	MS Clearwater at DNFH		DNFH	1,200,000			6 7.7%		+ · ·				1,548,387									
		Red House Hole - SF Clw		SFClw Angler	er 400,000	) 4%	6 50.0%	6 7.7%	7,368	91.6%	6 86.6%	80.6%	416,000	516,129	595,992	650,646	6 89	89	9 178	3 193	193	3 2,155	
STLHD	DNFH	Clear Creek		DNFH	300,000								312,000			,						,	
	'	Lolo Creek		SFClw Angler	r 200,000	) 4%	6 50.0%	6 7.7%	ة 7,368	91.6%	6 86.6%	80.6%	208,000	258,065	297,996	325,323	45	45	5 90	98	98	8 2,122	
	CFH	Clearwater		SFClw Angler	er 843,000	3%	<b>50.0%</b>	6 3.5%	7,417	100.0%	6 87.5%	5 74.0%	868,290	1,173,365	1,340,988	1,340,988	181	181	L 362	2 <b>376</b>	376	6 2,309	
					1 252 005		50.00		2 701	20.44		C1 5%		1 700 005		1 200 572	472	471	-		071		(2)
	DNFH	NF Clearwater (DNFH)		DNFH	1,350,000									1,536,885									
		Trans. to NPTH-NPTH		DNFH	200,000								208,333									,	
		Trans. to NPTH-Lapwai Creek		DNFH	200,000								208,333										
		Kooskia NFH		KNFH	650,000								684,211										
		Red River			1,100,000									1,138,716								,	
SP/SU		Selway River-Lower			400,000								400,000	· · ·		,							
CHIN	CFH	Clear Creek		KNFH/DNFH	635,000								635,000	657,350	706,828	776,734	223	223				- ,	(5)
		NF Clearwater-CFH (Baffle)		DNFH		0%						96.6%	0								0 0		(5)
		NF Clearwater-CFH (Regular)		DNFH KNFH/DNFH	640.000	0%						96.6%	C40.000	662,526	712 202	702.950	225	225					(6)
		Lolo Cr (Clw)	Pre-	NIDTUC									640,000										
/	NPTHC		Pre-		150,000								151,515										
					75,000								75,758	<u> </u>									
		Lolo Creek	Smolt	t NPTHC	200,000	0 1%	50.0%	4.5%	3,807	89.0%	6 90.0%	92.0%	202,020	219,587	243,986	274,141	. 73	73	3 146	5 <mark>153</mark>	153	3 1,320	
FACH	NPTHC	Snake River		LGR/NPTH	1,400,000	0 1%	50.0%	5.0%	4,167	96.0%	<b>90.0%</b>	92.4%	1,414,000	1,529,641	1,699,601	1,770,418	425	425	850	) <mark>895</mark>	895	5 1,580	
соно	DNFH	Clearwater			500,000	0 10%	<b>49.3%</b>	6 15.1%	2,488	97.3%	6 80.2%	81.2%	550,000	677,090	844,462	868,074	349	359	708	8 835	810	0 659	
	ECFH	Clearwater			550,000	10%	<b>49.3%</b>	6 15.1%	2,488	97.3%	6 80.2%	81.2%	605,000	744,799	928,908	954,881	. 384	396	5 780				
(1) In the	2013 AOP pr	rocess, the co-managers approved a 2	a 10% c <sup>,</sup>	ushion to meet r	elease target	ts					ļ	CELL FORMULAS	F*(1+G)	N/(M)	0/(L)	P/(K)	ROUNDUP (Q/J,0)	R/(H)-R	R+S	ROUNDUP	ROUNDUP( R/(1-H)/(1-		1

(2) Culling of eggs for BKD, IHN, etc.

(3) Includes the New Production started in BY2015. Added production by increasing densities to 65k in all B-Bank rcwys.

(4) New production started in BY2015, Lolo release group.

(5) NEW PRODUCTION in 2015. First timing rearing smolt in the adult holding ponds

(6) NEW PRODUCTION in 2015. Increasing rearing densities across raceways and spreading the new smolts across release groups

(7) Powell is not a US v OR program; however we will target 640,000 summer Chinook smolts even if the spring Chinook production target is set at the base US v OR level.

6.2. Sites, release numbers for adult Spring Chinook Salmon, when all Clearwater Basin Production Programs are above broodstock, harvest and C&S needs.\*

Release Location	Hatchery Source	Guideline Range	Max
Selway Basin			
McGruder	RR, NPTH, Clear, DNFH, KNFH	800 - 1,000	6,000
O'Hara Creek	RR, NPTH, Clear, DNFH	200	
Lower Selway	RR, NPTH, Clear, DNFH, KNFH	0 - 2,000	3,400
SF Clearwater R.			600
Mill Creek	RR, NPTH, Clear, DNFH	150	
Meadow Creek	RR, NPTH, Clear, DNFH	150 - 300	
SF Clearwater R.	RR, NPTH, Clear, DNFH	0 - 500	
Crooked River	RR, NPTH, Clear, DNFH	0 - 500	
Lolo Creek	RR, NPTH, Clear, DNFH	0 - 500	
Lochsa River			
Main Lochsa, Badger Cr., Boulder Cr.	RR, NPTH, Clear, DNFH	500	
	TOTAL	1,800 - 4,650	10,000

\*Release Locations are not prioritized. If guidline range is likely to be exceeded, co-managers will discuss disposition of excess fish.

\*There are weekly conference calls scheduled for Tuesdays, to keep all parties updated, informed, and coordinated on in-season run development, harvest estimates, broodstock collection, outplanting plans, etc...

#### 6.3. Proposed hatchery identifying marks for adult spring Chinook salmon outplanting in the Clearwater River.

Hatchery / Location	Mark	Purpose
Dworshak	left opercle v-notch	outplant
	1) 1 right opercle v-notches	outplant / fishery recycle
Kooskia	2) if recycle returnees - additional opercle v-notch	outplant / fishery recycle
Clear Creek above weir	right opercle v-notch	natural spawners
Lochsa (Powell satellite)	left opercle punch	fishery recycle / outplant
Red River/Crooked River	1) right opercle punch	fishery recycle
	2) 2 right opercle punches	outplant (early)
Rapid River	dorsal punch	Clearwater (Selway) outplants
Lolo Cr. weir	right opercle punch	Broodstock collection for NPTH
NPTH	left opercle punch	outplant / fishery recycled to Lenore Boat Launch