

Table 1.1a. BY2020 Steelhead Rearing Metrics and Projected/Actual Releases in 2021

Hatchery	Agency	Release Site	Stock	Release Goals		Projected Releases at AOP ¹		Actual Releases by Mark Type						PIT Tags Released ²							
				Number	Size (FPP)	Dates	Number	Dates	Number	Size (FPP)	Adipose Fin Clip		No Clip		Number	Tags Purchased ³					
											No CWT	CWT	CWT	No CWT		CSS	LSRCP	USFWS	NPT	USCOE	SMP
DNFH	USFWS	DNFH	DworB	1,200,000	5.8	4/12-4/13/2021	1,312,420	4/12-4/12/21	1,312,110	5.8	1,212,250	99,860			20,061	5,200				13,400	1,500
DNFH	USFWS	Clear Creek	DworB	300,000	5.8	4/5-4/6/2021	336,997	4/5-4/8/21	337,148	5.5	297,196	39,952			5,190	2,600				2,600	
DNFH	USFWS	SF CLWR, Red House	DworB	400,000	5.8	4/6-4/9/2021	429,615	4/5-4/9/21	429,546	6.1	389,668	39,878			6,593	3,100				3,500	
DNFH	USFWS	Lolo Creek ⁴	DworB	200,000	5.8	4/9-4/12/2021	208,561	4/9-4/12/21	208,541	6	208,541	-			1,000	500				500	
Totals				2,100,000			2,287,593		2,287,345		2,107,655	179,690		-	32,844	11,400	-	-	-	20,000	1,500
CFH	IDFG	Meadow Creek-SF	DworB	501,000	4.5	4/5-4/9/2021	538,045	3/26-3/30/2021	538,459	5.2	319,245		219,214		10,783	3,200	7,600				
CFH	IDFG	Red House Hole-SF	DworB	219,000	4.5	4/11-4/12/2021	238,037	3/25-3/26/2021	238,402	5.0	238,402				4,693	1,400	3,300				
CFH	IDFG	Newsome Creek-SF	DworB	123,000	4.5	4/13-4/14/2021	123,103	4/5-4/6/2021	123,147	4.9			119,471	3,676	5,996	800	1,800			3,400	
Totals				843,000			899,185		900,008		557,647	-	338,685	3,676	21,472	5,400	12,700	-	3,400	-	-
Grand Total				2,943,000			3,186,778		3,187,353		2,665,302	179,690	338,685	3,676	54,316	16,800	12,700	-	3,400	20,000	1,500

¹ Projected releases at pre-season AOP meeting.

² PIT tags on all mark types; These fish already counted in total number of releases.

³ Represents number of tags paid for by each agency. Sum total may not equal number tags released.

⁴ Release was relocated to the SF CLWR at Red House.

Table 1.1b. BY2021 Steelhead Proposed/Actual Egg Transfers in 2021¹

Location		Stock	Green Eggs Transferred		Eyed Eggs Transferred		Outplants	
Source	Destination		Proposed	Actual	Proposed	Actual	Life stage	Number
DNFH	CFH (for MVFH)	DworB						
DNFH	CFH	SFCLWB/DworB						
CFH	SBT	DworB	611,111	544,817	550,000	462,933		
CFH	MVFNH	DworB	136,765	247,286	114,882	202,283		
Grand Total			747,876	792,103	664,882	665,216		

¹ Total number received by hatchery. Inventory total from sending or receiving facility can be used (i.e., "Shipped/Received")

Table 1.2. Steelhead estimated returns in 2020/2021 based on LGD PIT tag detections

Release Group	LGD PIT Estimate of Ad-Clipped Returns ¹				LGD PIT Estimate of Un-Clipped Returns ¹			
	I-Salt	II-Salt	III-Salt	Total	I-Salt	II-Salt	III-Salt	Total
Dworshak	592	7,772	0	8,364	0	1,081	1	1,082
Clearwater	119	3,843	1	3,963	0	2,203	0	2,203
Total	711	11,615	1	12,327	0	3,284	1	3,285

¹ PIT tags typically under-estimate due to tag loss & possible differential mortality

Table 1.3 Steelhead Clearwater River tribal and sport harvest in 2020/2021

Site	NPT Harvest ³					Sport Harvest										
	FALL 2020/SPRING 2021					FALL 2020					SPRING 2021					
	Clipped				Unclipped	Total	Hatchery					Hatchery				
	I-Salt	II-Salt	III-Salt	I-Salt			II-Salt	III-Salt	5% Hooking Mortality ¹	Total	I-Salt	II-Salt	III-Salt	5% Hooking Mortality ¹	Total	
Clearwater River					0	23	1,192		14	1,229	11	1,499		46	1,556	
NF Clearwater		2,167		39	2,206	35	829		16	880	20	692		19	731	
Clear Creek ²					0					0					0	
SF Clearwater		0			0	0	0		0	0	10	652		35	697	
Total	0	2,167	0	39	2,206	58	2,021	0	30	2,109	41	2,843	0	100	2,984	

¹ 5% Hooking mortality for Released AD-clipped Steelhead

² Clear Creek sport harvest and hooking mortality are included in the Clearwater River estimates.

³ NPT doesn't collect size or PBT data. Only clipped or unclipped

Table 1.4a Steelhead rack/trap/angler collection in 2020/2021 (by Hat/Nat and New/Recap)

Collection Location	Hatchery		Total	Natural		Total
	New ¹	Recap ²		New ¹	Recap ²	
DNFH	2,155	107		154	6	160
KNFH ³			0			0
Angler	592		592	94		94
Total	2,747	107	592	248	6	254

¹ New fish are those who have not been trapped previously

² Recaptured fish are those who have been trapped 1 or more times previously

³ Kooskia Hatchery didn't trap Steelhead in 2021.

Table 1.4b Steelhead rack/trap/angler HATCHERY fish collection in 2020/2021 (by Age)

Collection Location	Hatchery			Total Hatchery Fish
	I-Salt	II-Salt	III-Salt	
DNFH	71	2,119	70	2,260
KNFH ¹				0
Angler		592		592
Total	71	2,711	70	2,852

¹ Kooskia Hatchery didn't trap Steelhead in 2021.

Table 1.5 Steelhead RELEASES in 2021

Collection Location	Release Site	Recycle		Natural Spawning		Total
		Hatchery	Natural	Hatchery	Natural	
DNFH	Hocus Boat Launch	1090			72	1,162
Total		1090	0	0	72	1,162
KNFH ¹						0
Total		0	0	0	0	0
Angler	South Fork Clearwater River	265		16	94	375
Total		265	0	16	94	375
Grand Total		1355	0	16	166	1,537

¹ Kooskia Hatchery didn't trap Steelhead in 2021.

Table 1.6 Steelhead DISTRIBUTION and CARCASS DISPOSAL in 2021 - HATCHERY fish

Collection Location	NPT Subsistence			Foodbank			Landfill			Total
	I-Salt	II-Salt	III-Salt	I-Salt	II-Salt	III-Salt	I-Salt	II-Salt	III-Salt	
DNFH	0	0	0	5	824	53	0	63	13	958
KNFH ¹										0
Angler					289			22		311
Total	0	0	0	5	1,113	53	0	85	13	1,269

¹ Kooskia Hatchery didn't trap Steelhead in 2021.

Table 1.7 Steelhead SPAWNED in 2021 - Goals and Actual

Facility	Ponded for Broodstock			Number Females Spawned				Green Eggs Before Disease Cull	
	Actual			Goal	Actual			Goal	Actual
	I-Salt	II-Salt	III-Salt		I-Salt	II-Salt	III-Salt		
DNFH	22	1,167	70	468	0	543	4	3,173,730	2,991,569
KNFH ²									
Angler (CFH)		576		192		171		1,339,954	1,390,320
DWOR (CFH) ¹									
Total	22	1,743	70	660	0	714	4	4,513,684	4,381,889

¹ DNFH stock used for CFH production are included in DNFH 'Ponded for Broodstock' totals

² Kooskia Hatchery didn't trap Steelhead in 2021.

Table 1.8 Steelhead Kelt Program RELEASES and SURVIVORS in 2021

Collection		Releases (2021)		Survivors ¹	
Location	Number	Release Site	Number	Location	Number
2020 LGR	91	Snake/LGR	43	DNFH	0
2020 LGO	49	Snake/LGR	18	DNFH	0
2021 LGR	44	Snake/LGR	4	DNFH	16
2021 LGO	12	Snake/LGR	0	DNFH	1
Total	196		65		17

¹ Kelts remaining on hand

Table 1.9 Steelhead Juvenile Survival Rates to Lower Granite Dam

Region	Hatchery	Release Site	Stock	Migration Year							Notes (things that could negatively affect survival)
				2016	2017	2018	2019	2020	2016-2020 Average	2021	
Clearwater	DNFH	DNFH	DworB	79.7	77.2	75.9	79.8	78.4	78.2	83.6	
		Clear Creek	DworB	82.6	72.5	73.4	79.8	78.1	77.3	81.8	
		SF CLWR, Red House	DworB	76.5		70.0	70.0	75.8	73.1	68.5	
		Lolo Creek	DworB	65.4		58.4		56.9	60.2	73.6	Note - actual release location at Red House
	CFH	Meadow Creek-SF Clw	DworB								
			SFClw	83.7	89.5	84.3	77.3	81.2	83.2	80.1	
		Red House Hole-SF Clw	DworB								
		SFClw	84.3	88.5	84.0	91.5	83.4	86.3	73.4		
		Newsome Creek-SF Clw	DworB								
			SFClw	79.5	84.1	68.2	67.4	71.5	74.1	76.5	
Snake-Salmon	HNFH	Sawtooth Weir-Salmon R.	SawA	73.1	76.0	82.2	75.0	70.5	75.4	78.8	Estimates do not include PRAS fish
		E. Fork Salmon R. - Upper	EFNat	63.6	67.2	75.5	43.2	63.4	62.6	52.6	
	MVFH	Colston-Salmon R.	PahA	81.9						81.9	
		Red Rock-Salmon R.	PahA	85.6						85.6	
		Shoup Bridge-Salmon R.	PahA	82.0						82.0	
		Sawtooth Weir-Salmon R.	SawA			87.2	58.4	79.3	75.0	77.3	
		Little Salmon R. - Stinky Sp.	PahA	98.6	89.9	96.1	87.3	86.9	91.8	87.8	
			DworB				89.4		89.4	82.7	
			USRB	90.9	89.1			85.6	88.5		
		Pahsimeroi Weir	PahA		74.2					74.2	
			DworB	88.7	81.2	76.9	69.3	65.5	76.3	72.7	
			USRB	94.2	79.6	76.7	74.1	74.2	79.8	77.6	
			DworB			70.3	36.8	52.8	53.3	77.7	
		Yankee Fork									
	USRB		64.8	75.2	68.2		68.6	69.2	52.0		
	NSFH	Pahsimeroi Weir	PahA	84.5	74.9	86.2	81.4	74.7	80.3	65.9	
Little Salmon R. - Stinky Sp.		PahA	90.5	90.7	100.0	89.0	81.6	90.4	83.0		
		OxbA	90.5	90.5	96.1	88.7	82.9	89.7	81.6		
Snake R. Hells Canyon-Dam		OxbA	75.5	92.4	82.6	84.4	83.1	83.6	77.5		
Snake R. Hells Canyon-Pittsburg Lndg	OxbA		92.2				92.2				

Table 2.1a. BY2019 SMOLTS - Spring/Summer Chinook Rearing Metrics and Projected/Actual Releases in 2021

Hatchery	Agency	Release Site	Species	Stock	Release Goals		Projected Releases at		Actual Releases by Mark Type						PIT Tags Released ²				Comments		
					Number	Size (FPP)	Dates	Number	Dates	Number	Size (FPP)	Adipose Fin Clip		No Clip		Number	Tags Purchased ³				
												No CWT	CWT	CWT	No CWT		BPA	CSS		LSRCP	USFWS
DNFH	USFWS	NF Clearwater (DNFH)-Early Rel	SCS	Dwor	1,650,000	20.0	3/31/2021	998,797	3/31/2021	997,228	20.5	929,915	67,313			24,929		25,000			
DNFH	USFWS	NF Clearwater (DNFH)-Late Rel	SCS	Dwor			4/14/2021	681,049	4/14	677,455	20.2	614,656	62,799	-	-	16,771	-	17,000	-	-	-
Totals					1,650,000			1,679,846		1,674,683		1,544,571	130,112	-	-	41,700	-	42,000	-	-	-
KNFH	USFWS	Kooskia NFH	SCS	Kooskia	650,000	20.0	4/13	650,000	4/13	633,835	21.7	473,497	105,900		54,438	5,981					5,981
Totals					650,000			650,000		633,835		473,497	105,900	-	54,438	5,981	-	-	-	-	5,981
CFH	IDFG	Red River	SCS	SF	1,280,000	16.0	3/18-3/29	1,211,774	4/10-4/14	1,211,766	15.7	1,091,774	119,992	-	-	17,059		5,059	12,000		
CFH	IDFG	NF Clearwater-Baffle-Early Rel	SCS	Dwor	389,000	16.0	3/31	382,812	3/31	382,762	16.0	-	382,762	-	-	17,104		2,504	14,600		Early Rel: same as normal timing
CFH	IDFG	NF Clearwater-Regular-Late Rel	SCS	Dwor	320,000	16.0	4/14	197,567	4/14	197,556	15.6	197,556	-	-	2,000			2,000			Late Rel: 2 weeks after normal Rel
CFH	IDFG	Selway - lower	SCS	Dwor	400,000	16.0	3/15-3/17	395,836	3/22-3/24	395,748	15.0	138,493	120,863	136,392		17,089		5,089	12,000		
CFH	IDFG	Clear Creek	SCS	Koos	720,000	16.0	3/30,4/16	656,702	4/28	656,317	16.0	535,999	120,318	-	-	9,789		3,489	6,300		
CFH	IDFG	Powell	SUM	Pow/SFSR	640,000	16.0	3/22	390,883	3/17-3/18	402,786	15.7	81,104	119,860	119,846	81,976	25,480		13,480	12,000		
Totals					3,749,000			3,235,574		3,246,935		2,044,926	863,795	256,238	81,976	88,521	-	29,621	58,900		-
NPTH	NPT	NPTH-Clearwater R	SCS	Dwor	200,000	20.0	12/31/2020	177,924	3/25/2021	177,358	25	111,680	60,979	-	4,699	1,000	1,000				
NPTH	NPT	NPTH-Clearwater R	SCS	Dwor	180,000	20.0	12/31/2020	223,646	4/15/2021	222,902	26	246	69,391	135,665	17,600	1,000			1,000		
Totals					380,000			401,570		400,260		111,926	130,370	135,665	22,299	2,000	1,000	-	1,000	-	
Grand Total					6,429,000			5,966,990		5,955,713		4,174,920	1,230,177	391,903	158,713	138,202	1,000	71,621	59,900	5,981	

¹ Projected releases at pre-season AOP meeting.

² PIT tags on all mark types; These fish already counted in total number of releases.

³ Represents number of tags paid for by each agency. Sum total may not equal number tags released.

Table 2.1b. BY2020 PARR and PRE-SMOLT - Spring/Summer Chinook Rearing Metrics and Projected/Actual Releases in 2021

Hatchery	Agency	Release Site	Species	Stock	Release Goals		Projected Releases at		Actual Releases by Mark Type						PIT Tags Released ²						
					Number	Size (FPP)	Dates	Number	Dates	Number	Size (FPP)	Adipose Fin Clip		No Clip		Number	Tags Purchased ³				
												No CWT	CWT	CWT	No CWT		BPA	CSS	LSRCP	USFWS	
NPTH	NPT	Newsome Cr	SCS	Newsome/NPTH	75,000	30.0	12/31	100,000	10/6/2021	87,588	36.0	-	-	82,894	4,694	2,992	2,992				
NPTH	NPT	Lolo Cr	SCS	Lolo/NPTH	150,000	30.0	12/31	175,000	10/6/2021	160,630	31.0	-	-	151,098	9,532	5,953	5,953				
Totals					225,000			275,000		248,218		-	-	233,992	14,226	8,945	8,945	-	-	-	-
Grand Total					225,000			275,000		248,218		-	-	233,992	14,226	8,945	8,945	-	-	-	-

¹ Projected releases at pre-season AOP meeting.

² PIT tags on all mark types; These fish already counted in total number of releases.

³ Represents number of tags paid for by each agency. Sum total may not equal number tags released.

Table 2.1c. BY2021 Chinook Proposed/Actual Egg Transfers 1

Location		Stock	Green Eggs Transferred		Eyed Eggs		BY21 Fry Transferred		Outplants		Total Transfers
Source	Destination		Proposed	Actual	Proposed	Actual	Proposed	Actual	Life stage	Number	
DNFH	CFH	Dwor			1,000	1,000					1,000
		Koosk									-
	KNFH	Koosk	875,563	1,055,666							1,055,666
	KNFH	Dwor									-
KNFH	KNFH ²	Koosk									-
Rapid River	CFH	Rapid River									-
	DNFH	Rapid River									-
McCall	CFH	SFSalmon (SUM)	-	-							-
CFH	Selway at Meadow Cr	Clearwater ³							Eyed Eggs	482,564	482,564
Grand Total			875,563	1,055,666	1,000	1,000	-	-		482,564	1,539,230

¹ Total number received by hatchery. Inventory total from sending or receiving facility can be used (i.e., "Shipped/Received")

² Source Location is KNFH and Destination is KNFH. Adult holding and spawning is at DNFH.

³ Mixture of fish from any/all of the Clearwater spring chinook trapping locations (SFClw, Dwor, ClearCr, NPTH).

Table 2.2 Spring/Summer Chinook predicted and estimated returns in 2021 based on LGD PIT tag detections.

Release Group	Pre-Season Forecast		LGD PIT Estimate of Returns ¹			LGD PBT Estimate of Ad-Clipped Returns ⁵			LGD PBT Estimate of Un-Clipped Returns ⁵			PIT v PBT Representation		
	Adult	Jack ²	Adult	Jack	Total	Adult	Jack	Total	Adult	Jack	Total	Adult	Jack	Comment
Dworshak	1,260	NA	2,002	235	2,237	3,850	304	4,154	56	6	62	51%	76%	
Kooskia	115	NA	237	229	466	1,015	125	1,140	130	33	163	23%	183%	
Selway ³	946	NA	101	35	136	116	41	157	90	21	111	49%	56%	
Powell3	358	NA	175	223	398	152	142	294	42	146	188	90%	77%	
Red River	1,383	NA	306	181	487	143	319	462	0	0	0	214%	57%	
Clear Cr. (Clwr)	707	NA	506	0	506	1,087	176	1,263	47	4	51	45%	0%	
NPTH ^{3,4}	0	NA	314	36	350	560	0	560	467	15	482	31%	240%	
NF Clearwater	231	NA	567	746	1,313	1,019	458	1,477	15	0	15	55%	163%	
Total	5,000	NA	4,208	1,685	5,893	7,942	1,565	9,507	847	225	1,072	48%	94%	

¹ PIT tags typically under-estimate due to tag loss & possible differential mortality

² No pre-season jack forecast

³ Portions of these releases are intentionally left unclipped

⁴ PIT estimate only includes ad-clipped returns and is a surrogate estimate based on the survival of the Dworshak smolts from the same brood year

⁵ Preliminary estimates

Table 2.3 Spring/Summer Chinook Clearwater River tribal and sport harvest in 2021.

Site	NPT Catch & Harvest					Idaho Sport Fisheries Catch, Harvest, and Incidental impacts												
						AD-clipped Fish						Unclipped Fish						
	AD-clipped Fish Caught			AD-clipped Harvest (kept + 10% hook & release ¹)			Unclipped Fish Caught				Unclipped Harvest (kept + 10% hook & release ¹)							
	Ad-Clipped Adults		Un-clipped Adults	Jacks	AD-clipped Kept		AD-clipped Released		Unclipped Kept		Unclipped Released		Unclipped Kept		Unclipped Released			
Caught	Kept	Caught	Kept		Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks	Adults	Jacks				
Mainstem Clearwater	63	63	0	0	2	0	62	136	0	14	62	0	0	0	0	0	0	
NF Clearwater	332	332	0	0	106	0	313	2,301	26	230	316	0	0	187	23	19	2	
Middle Fork Clearwater	7	7	4	4	0	0	13	26	0	3	13	0	0	3	0	0	0	
Clear Creek	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Lolo Creek	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SF Clearwater	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Selway River	19	19	52	52	5	0	0	0	0	0	0	0	0	0	0	0	0	
Lochsa River	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	432	432	56	56	113	0	388	2,463	26	246	391	0	0	190	23	19	2	

¹ 10% Hooking mortality for Released Chinook

Table 2.4a Spring/Summer Chinook rack/trap returns in 2021 (by Hatchery/Natural and New/Recap)

Rack/Trap	Species	Hatchery		Total	Natural		Total
		New ¹	Recap ²		New ¹	Recap ²	
DNFH	SCS	3,015	0	3,015	31	0	31
KNFH	SCS	1,169	0	1,169	63	0	63
Lolo Creek	SCS	NA	NA	NA	NA	NA	0
NPTH ³	SCS	735	0	735	98	0	98
Powell	SCS/SUM	377	0	377	3	0	3
Red River	SCS	409	0	409	31	0	31
Crooked River	SCS	20	0	20	4	0	4
Total		5,725	0	5,725	230	0	230

¹ New fish are those who have not been trapped previously

² Recaptured fish are those who have been trapped 1 or more times previously

³ NPTH estimated numbers of hatchery and natural based on broodstock kept at NPTH, adult transfers to CFH were not sampled

Table 2.4b Spring/Summer Chinook rack/trap HATCHERY fish returns in 2021 (by Age, no recaps)

Rack/Trap	Species	Hatchery Returns by Age			Total Hatchery Fish
		1-Ocean	2-Ocean	3-Ocean	
DNFH ¹	SCS	361	2,622	32	3,015
KNFH ²	SCS	369	803		1,172
Lolo Creek ³	SCS	NA	NA	NA	NA
NPTH ⁴	SCS	3	830		833
Powell	SUM	260	107		367
Red/Crooked River	SCS	295	169		464
Total		1,288	4,531	32	5,851

¹ Age based on proportion of CWTs by ocean age.

² Age derived from length, currently retiring CWTs.

³ Weir not in operation in 2021

⁴ NPTH 2- and 3-ocean returns are combined. Lengths were not taken on adult transfers to CFH.

Table 2.5 Adult Spring/Summer Chinook RELEASES in 2021 - HATCHERY fish

Facility/Trap	Release Site	Recycle			Natural Spawning			Total
		Adult Male	Female	Jack	Adult Male	Female	Jack	
DNFH	Meadow Cr (SFCR), Newsome				163	331	60	554
DNFH	Crooked River				119	240	26	385
DNFH	Hocus, Lolo, El Dorado				66	99	0	165
Total		0	0	0	348	670	86	1104
KNFH	Second bridge on Clear Creek				35	36		71
KNFH	Kamiah boat launch						6	6
Total		0	0	0	35	36	6	77
Lolo Creek								0
Total		0	0	0	0	0	0	0
NPTH	Lolo Creek	0	0	0	9	4	0	13
Total		0	0	0	9	4	0	13
Powell								0
Total		0	0	0	0	0	0	0
Crooked/Red								0
Total		0	0	0	0	0	0	0
CFH								0
Total		0	0	0	0	0	0	0
Grand Total		0	0	0	392	710	92	1194

Table 2.6 Spring/Summer Chinook DISTRIBUTION in 2021 - HATCHERY fish

Facility/Trap	NPT Subsistence			Foodbank			Total
	Male	Female	Jack	Adult Male	Female	Jack	
DNFH			151	752	4	333	1,240
KNFH	1	2	349	133			485
Lolo Creek							0
NPTH	0	0	2	0	0	0	2
Powell							0
Crooked/Red			220			25	245
CFH						184	184
Total	1	2	722	885	4	542	2,156

Table 2.7 Spring/Summer Chinook CARCASS DISPOSAL in 2021 - HATCHERY fish

Facility/Trap	Nutrient Enhancement															Landfill			Total
	Clearwater River			Red River			Lolo Creek			Newsome Creek			Lochsa Tributaries			Male	Female	Jack	
	Male	Female	Jack	Male	Female	Jack	Male	Female	Jack	Male	Female	Jack	Male	Female	Jack				
DNFH	112	883																	995
KNFH	128	296																	424
Lolo Creek																			0
NPTH	131	146	0																277
Powell													46	61	59				166
CFH				821	1,265	6											11	4	2,107
Total	371	1,325	0	821	1,265	6	0	0	0	0	0	0	46	61	59	11	4	0	3,969

Table 2.8 FEMALE Spring/Summer Chinook SPAWNED in 2021 - Goals and Actual

Facility	Species	Females Pondered for Broodstock		Number Females Spawned		Green Eggs Before Disease Cull	
		Goal	Actual	Goal	Actual	Goal	Actual ¹
DNFH	SCS	883	1,051	905	891	3,337,221	3,360,386
KNFH ²	SCS		464		296		
CFH	SCS	1,082	1,268	1,027	1,226	3,668,904	4,599,136
CFH	SUM	216	78	205	78	765,067	276,276
NPTH	SCS	151	152	145	145	560,000	570,150
Total		2,332	3,013	2,282	2,636	8,331,192	8,805,948

¹ Females spawned x average fecundity

² 464 females were trapped for brood. 377 were sent to DNFH and 62 were sent to CFH. Late spawning of 100 more females were moved from DNFH to CFH. Total spawned for KNFH was 296

Table 2.9 Spring/Summer Chinook Juvenile Survival Rates to Lower Granite Dam

Region	Rearing Facility	Release Site	Migration Year							Notes	
			2016	2017	2018	2019	2020	2016-2020 Average	2021		
Smolt Releases											
Clearwater	DNFH	NF Clearwater - 1st onstation	71.4	65.5	74.9	68.2	80.9	72.2	76.9		
		NF Clearwater - 2nd onstation							81.9		
	KNFH	Clear Creek	68.4	45.1	62.8	56.2	74.0	61.3	80.1		
		NPTH	NPTH - 1st On-Station	67.0	59.5	88.2	93.1	82.0	78.0	88.3	
			NPTH - 2nd On-Station				71.8		71.8	77.9	
	CFH	Lolo Creek	54.0	52.0				53.0	-		
		Red River	60.3	51.4	64.5	26.0	62.3	52.9	82.4		
		NF Clearwater - 1st onstation	92.5	79.7	72.4	66.9	88.2	79.9	89.8		
		NF Clearwater - 2nd onstation							87.6		
		Selway River-Lower	71.2	74.9	61.2	44.7	60.9	62.6	65.5		
Snake-Salmon	SFH	Clear Creek	90.2	79.8	75.5	68.1	94.0	81.5	96.1		
		Powell Pond	68.5	62.6	54.0	55.2	60.0	60.1	65.4		
		Rapid River Hatchery	81.4	65.7	64.7	48.8	56.5	63.4	63.3		
	McFH	Salmon R. - Co. Line Br. - Integrated	61.1	60.5	44.3	48.8	55.6	54.1	70.1		
Sawtooth Weir -Segregated		68.0	60.7	52.6	53.7	69.1	60.8	63.8			
Yankee Fork		61.9	70.0	43.5	43.8	45.5	52.9	38.8			
PFH		Pahsimeroi Weir - Integrated	74.6	87.3	49.9	38.2		62.5		No PITs for juvenile survival in MY 2020 and MY 2021	
		Pahsimeroi Weir - Segregated	77.4	74.3	64.0	27.2	56.2	59.8	28.4		
McFH	SFSR Knox Br. - Integrated	62.5	72.5	69.9	62.0	74.4	68.3	79.3			
	SFSR Knox Br. - Segregated	68.2	68.3	71.2	62.3	74.0	68.8	78.1			
		Johnson Creek	52.5	52.8	49	51.0	65.0	54.1			
Parr and Pre-Smolt Releases											
Clearwater	DNFH	Selway River-Upper (Parr)						NA			
		Newsome Cr-SF Clw (Pre-Smolt)	11.0	8.6	11.3	4.7	8	8.7	10.2		
	NPTH	Lolo Cr- Clw (Pre-Smolt)	8.0	7.6	4.1	3.2	6	5.8	3.6		
		Meadow Cr-Selway (Parr)	2.0	0.5	2.1	1.9	4	2.1	-		

Table 3.1. BY2019 SMOLTS - Coho Rearing Metrics and Projected/Actual Releases in 2021

Hatchery	Agency	Release Site	Stock	Release Goals		Eggs/Fry Shipped / Received ¹	Projected Releases at AOP ²		Actual Releases by Mark Type						PIT Tags Released ³		
				Number	Size (FPP)		Dates	Number	Dates	Number	Size (FPP)	Adipose Fin Clip		No Clip		Number	Tags Purchased ⁴
												No CWT	CWT	CWT	No CWT		
Eagle Cr NFH	NPT	Lapwai Creek @ NLV	Clearwater	275,000	20.0		3/30/2021	275,000	3/30/2021	390,844	20.0			360,830	30,014	4,999	5,000
Eagle Cr NFH	NPT	Clear Cr	Clearwater	275,000	20.0		4/5/2021	275,000	4/5/2021	223,265	20.0			193,243	30,022	4,989	5,000
Total				550,000		-		550,000		614,109		-	-	554,073	60,036	9,988	10,000
DNFH	NPT	Clear Cr	Clearwater	500,000	20.0		4/14/2021	500,000	4/14/2021	563,322	20.0			457,838	105,484	3,943	5,000
Total				500,000		-		500,000		563,322		-	-	457,838	105,484	3,943	5,000
Grand Total				1,050,000		-		1,050,000		1,177,431		-	-	1,011,911	165,520	13,931	15,000

¹ Total number received by hatchery. Inventory total from sending or receiving facility can be used (i.e., "Shipped/Received")

² Projected releases at pre-season AOP meeting.

³ PIT tags on all mark types; These fish already counted in total number of releases.

⁴ Represents number of tags paid for by each agency. Sum total may not equal number tags released.

Table 3.2 Coho estimated returns in 2021 based on LGD PIT tag detections.

Release Group	LGD PIT Estimate of Returns ¹		
	Adult	Jack/Jill	Total
Kooskia (Clearwater)	5022		5022
Kooskia (Eagle Creek)	3,193		3,193
Lapwai Creek-NLV (Eagle Creek)	10,151		10,151
Total	18,366	0	18,366

¹ PIT tags typically under-estimate due to tag loss & possible differential mortality

Table 3.3 Coho Clearwater River tribal and sport harvest in 2021

Site	NPT Harvest ¹				Sport Harvest					
	Clipped		Unclipped	Total	Unclipped		Clipped		10% Hooking Mortality ²	Total
	Adult	Jack/Jill			Adult	Jack/Jill	Adult	Jack/Jill		
Clearwater				0	310	8	18		20	356
North Fork Clearwater				0	49	4	1		4	58
Middle Fork Clearwater				0	105				7	112
South Fork Clearwater				0						0
Snake River				0	1		69		1	71
Total	0	0	0	0	465	12	88	0	32	597

¹ Preliminary data.

² 10% Hooking mortality for Released AD-clipped and unclipped Coho

Table 3.4 Coho rack/trap returns in 2021 (by Hatchery/Natural and Age)

Rack/Trap	Hatchery				Total
	Male	Female	Jack	Unknown	
DNFH	86	89	2		177
KNFH	2495	1930	734		5159
Lapwai Creek ¹	2542	2531	205	16	5294
LGD	380	431	0		811
Total	5503	4981	941		11441

¹ Also had 16 unknown adults trapped at Lapwai creek

Table 4.2 Fall Chinook estimated returns in 2021 based on LGD PIT tag detections.

Release Group	LGD PIT Estimate of Returns ¹		
	Adult	Jack/Jill	Total
Big Canyon 1+	107	0	107
Big Canyon 0+	946	45	991
NPTH	1,129	355	1,484
NLV	990	0	990
Lukes Gulch	682	0	682
Cedar Flats	450	173	623
Total	4,304	573	4,877

¹ PIT tags typically under-estimate due to tag loss & possible differential mortality.

Table 4.3 Fall Chinook Clearwater River tribal and sport harvest in 2021

Site	NPT Harvest ³				Sport Harvest									
	Clipped		Uncropped	Total	Clipped			Total	Uncropped			Total		
	Adult	Jack/Jill			Adult	Jack/Jill	10% Hooking Mortality ¹		Adult	Jack/Jill	10% Hooking Mortality ¹	Adult ²	Jack/Jill	
Clearwater				0	218	118	2	338	453	196	13	662	686	314
North Fork				0	25	21	2	48	6			6	33	21
Middle Fork				0				0				0	0	0
South Fork				0				0				0	0	0
Total	0	0	0	0	243	139	4	386	459	196	13	668	719	335

¹ 10% Hooking mortality for Released adult Chinoc

² Totals include hooking mortality

³ Preliminary unexpanded data. Need to account for unsampled time in gillnet fishery and adjust clip rate in Clearwater.

Table 4.4 Adult Fall Chinook rack/trap returns in 2021 (by hatchery/collection site) ¹

Rack/Trap	Female	Male	Total
DNFH			0
NPTH	0	0	0
LGD (to NPTH)	498	292	790
Total	498	292	790

¹ Origin based on marks and tags (no PBT results yet)

Table 4.5 Fall Chinook RELEASES in 2021- HATCHERY fish

Facility/Trap	Release Site	Recycle			Natural Spawning			Total
		Male	Female	Jack	Male	Female	Jack	
DNFH								0
Total		0	0	0	0	0	0	0
NPTH	Cherry Lane Boat Ramp	0	0	0	1	34	0	35
Total		0	0	0	1	34	0	35
LGD								0
Total		0	0	0	0	0	0	0
Grand Total		0	0	0	1	34	0	35

Table 4.6 Fall Chinook DISTRIBUTION in 2021 - HATCHERY fish

Facility/Trap	NPT Subsistence			Foodbank			Total
	Male	Female	Jack	Male	Female	Jack	
DNFH							0
NPTH	0	0	0	0	0	0	0
LGD							0
Total	0	0	0	0	0	0	0

Table 4.7 Fall Chinook CARCASS DISPOSAL in 2021- HATCHERY fish

Facility/Trap	Nutrient Enhancement															Animal Rehab			Landfill			Total	
	Clearwater River			Red River			Crooked River			Lochsa River			Lochsa Tributaries			Male	Female	Jack	Male	Female	Jack		
	Male	Female	Jack	Adult	Female	Jack	Adult	Female	Jack	Adult	Female	Jack	Adult	Female	Jack								
DNFH																							0
NPTH	287	468	0																				755
LGD																							0
Total	287	468	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	755

Table 4.8 Fall Chinook SPAWNED in 2021 - Goals and Actual

Facility	Ponded for Brood		Number Spawned		Green Eggs Before	
	Goal	Actual	Goal	Actual	Goal	Actual
DNFH						
NPTH	500	498	420	420	1,701,840	1,721,774
LGD						
Total	500	498	420	420	1,701,840	1,721,774

Table 5.1. 2021 Adult Lamprey - MY2020 SPRING Releases

Releases			PIT Tagging		Collection Location
Date	Location	Number	Date	Number	
4/7/2021	Asotin Creek	50			Bonneville Dam
4/22/2021	Potlatch River	50			Bonneville Dam
4/29/2021	Wallowa River	100			Bonneville Dam
5/12/2021	Mussellshell/Lolo Crk	50			Bonneville Dam
5/20/2021	Newsome Creek	50			Bonneville Dam
5/20/2021	Red River	50			Bonneville Dam
5/24/2021	Orofino Creek	21			Bonneville Dam
Total		371		0	

Table 5.2. 2021 Adult Lamprey - MY2021 SUMMER & FALL Direct Releases

Releases			PIT Tagging		Collection Location
Date	Location	Number	Date	Number	
6/16-8/25/21	Clearwater River	873		0	BON/JDD/TDA
9/13/2021	Secesh River	40	9/8/2021	40	John Day Dam
9/13/2021	SF Salmon River	40	9/8/2021	40	John Day Dam
9/13/2021	Johnson Creek	40	9/8/2021	40	John Day Dam
9/21/2021	Joseph Creek	100		0	John Day/Bonneville Mix
9/21/2021	Minam River	100		0	The Dalles Dam
9/21/2021	Wallowa River	100		0	The Dalles/John Day Mix
Total		1293		120	

Table 5.3. 2021 Adult Lamprey - Collections

Collection				Holding	
Date	Location	Number	Destination ¹	Injection Date (OTC)	Mortality
6/16/2021	Bonneville Dam	126	Clearwater River (D.R.)	-	0
6/23/2021	Bonneville Dam	163	Clearwater River (D.R.)	-	0
6/30/2021	Bonneville Dam	200	Clearwater River (D.R.)	-	0
7/7/2021	Bonneville Dam	162	NPTH	7/7/2021	1
7/12/2021	Bonneville Dam	154	NPTH	7/13/2021	4
7/21/2021	Bonneville Dam	131	NPTH	7/22/2021	0
7/28/2021	Bonneville Dam	139	Clearwater River (D.R.)	-	0
8/4/2021	Bonneville Dam	127	NPTH	8/4/2021	0
8/11/2021	Bonneville Dam	82	Clearwater River (D.R.)	-	0
8/25/2021	Bonneville Dam	44	Clearwater River (D.R.)	-	0
9/9/2021	Bonneville Dam	93	NPTH	9/10/2021	0
7/7/2021	The Dalles Dam	4	NPTH	7/7/2021	0
7/12/2021	The Dalles Dam	51	NPTH	7/13/2021	0
7/21/2021	The Dalles Dam	12	NPTH	7/22/2021	1
7/28/2021	The Dalles Dam	24	Clearwater River (D.R.)	-	0
8/4/2021	The Dalles Dam	15	NPTH	8/4/2021	0
8/11/2021	The Dalles Dam	17	Clearwater River (D.R.)	-	0
8/25/2021	The Dalles Dam	16	Clearwater River (D.R.)	-	1
9/9/2021	The Dalles Dam	71	NPTH	9/10/2021	0
7/7/2021	John Day Dam	27	NPTH	7/7/2021	0
7/12/2021	John Day Dam	23	NPTH	7/13/2021	0
7/21/2021	John Day Dam	41	NPTH	7/22/2021	0
7/28/2021	John Day Dam	15	Clearwater River (D.R.)	-	0
8/4/2021	John Day Dam	33	NPTH	8/4/2021	0
8/11/2021	John Day Dam	11	Clearwater River (D.R.)	-	0
8/25/2021	John Day Dam	36	Clearwater River (D.R.)	-	0
9/9/2021	John Day Dam	85	Clearwater River (D.R.)	-	0
Total		1,902			7

¹ D.R. = direct release

Table 5.4. 2021 Adult Lamprey - Current Inventory

Holding			
Date	Facility	Current Number	Total Mortality
12/13/2021	NPTH	596	7
Total		596	7

Table 6.1. 2021 RBT Releases

Fish Hatchery	Stocking Agency	Program	Stock	Release Location	Release Goal	Actual Releases			Comments
					Number	Number	Release Dates (2021)	Size (FPP)	
CFH	IDFG	ACOE Mitigation	Hayspur/Troutlodge	Elk Creek Reservoir	13,200	13,468	5/19, 6/15, 6/25, 10/19	1.70	
CFH	IDFG	ACOE Mitigation	Hayspur/Troutlodge	Deer Creek Reservoir	8,175	8,312	5/26, 6/25, 10/22	1.69	
CFH	IDFG	ACOE Mitigation	Hayspur/Troutlodge	Dworshak Reservoir	8,625	10,247	5/13, 6/15, 7/12	1.70	300 FLOY Tags
					30,000	32,027			
Troutlodge	NPT	NPT/BPA	Troutlodge	Talmaks Pond		252	5/26	0.36	
Troutlodge	NPT	NPT/BPA	Troutlodge	Mud Springs		1,047	4/28, 5/26	0.86	
Troutlodge	NPT	NPT/BPA	Troutlodge	Elk Lake		400	9/1	0.70	initial stocking of new pond
					0	1,699			
CFH	IDFG	DJ/License Revenue	Hayspur	Camp Grizzly Pond	500	500	6/4	2.50	
CFH	IDFG	DJ/License Revenue	Hayspur/Troutlodge	Campbells Pond	7,500	5,524	5/10, 5/17, 6/2, 9/16	2.48	Warm water conditions during the summer and there was a lack of fish at the end of the year.
CFH	IDFG	DJ/License Revenue	Hayspur/Troutlodge	Deyo Reservoir	17,700	17,764	5/3, 5/26, 10/19	1.67	
CFH	IDFG	DJ/License Revenue	Hayspur/Troutlodge	Fenn Pond	3,500	3,516	5/11, 5/20, 6/1, 6/9, 9/22, 10/7	2.46	
CFH	IDFG	DJ/License Revenue	Hayspur	Five Mile Pond	2,200	2,189	5/12, 6/8, 7/21	2.52	
CFH	IDFG	DJ/License Revenue	Hayspur/Troutlodge	Hordemann Pond	2,000	1,000	3/15, 4/6	2.50	Late Season Sockings canceled due to water quality.
CFH	IDFG	DJ/License Revenue	Hayspur/Troutlodge	Karolyn's Pond	4,000	4,156	5/12, 5/25, 6/8, 6/14, 7/7, 8/24, 9/28	2.46	
CFH	IDFG	DJ/License Revenue	Hayspur/Troutlodge	Kiwanis Park Pond	6,750	6,293	3/15, 3/26, 4/6, 5/6, 5/19, 6/4, 10/28	2.49	
CFH	IDFG	DJ/License Revenue	Troutlodge	Lake Waha	4,500	4,482	5/3, 5/19	1.66	
CFH	IDFG	DJ/License Revenue	Hayspur/Troutlodge	Robinson Pond	4,900	4,422	3/19, 3/26, 3/29, 4/14, 5/10, 5/27, 10/7	2.49	
CFH	IDFG	DJ/License Revenue	Hayspur/Troutlodge	White Sands Pond	3,200	3,297	5/11, 5/20, 6/1, 6/9, 9/1, 9/8	2.46	
					56,750	53,143			
DNFH	USFWS/NPT	LSRCP	Troutlodge	Tunnel Pond	500	1,000	5/19/22		Due to no stocking last year (COVID). Double-stock this year
Lyons Ferry	NPT	LSRCP	Troutlodge	Tunnel Pond	1,650	3,000	3/23, 3/30, 4/6, 4/20, 5/11, 5/21, 5/28	0.60	Additional fish available this year
CFH	IDFG	LSRCP		Tunnel Pond	2,500	2,561	3/31, 4/14, 6/21, 10/7	2.46	
CFH	IDFG	LSRCP	Spokane	Winchester Reservoir	9,000	8960	10/13	3.2	
CFH	IDFG	LSRCP	Spokane	Moose Creek Reservoir	3,500	3,520	10/13	3.20	
CFH	IDFG	LSRCP	Spokane	Spring Valley Reservoir	3,500	3,568	10/13	3.20	
					20,650	22,609			
					107,400	109,478			