

2013

Clearwater River Basin

Annual Operating Plan

Projected Release and Marking Tables

April 3, 2013

Table 1. Clearwater Basin Steelhead Projected Releases, 2013.

2013 Clearwater AOP

Fish Hatchery	Agency	Species	Stock	Brood Year	Release Location	Release Date	Program Goal	Estimated Release	No Mark or Clip	AD Only	AD/CWT	CWT Only	PIT ¹	Other Marks	Comments
Dworshak NFH	FWS	STHD	Dwor B	2012	Dworshak NFH	4/15-4/19	1,200,000	1,248,000	0	1,140,999	107,001	0	18,222	0	
					Clear Creek	4/8-4/17	300,000	308,000	0	287,675	20,325	0	3,577	0	
					SF CLWR, Red House	4/8-4/17	400,000	400,000	0	359,841	40,159	0	5,320	0	
					² Lolo Creek	4/16/2017	200,000	205,770	205,770	0	0	0	3,265	0	PIT tags - 339 CSS, 753 HEV USvOR Supplementation if Lolo has poor road conditions 140,000 may be released in Meadow Creek (SF Clearwater)
					Sub-total		2,100,000	2,161,770	205,770	1,788,515	167,485	0	30,384		
Clearwater	IDFG	STHD	Dwor B	2012	Newsome Creek-SF	8-Apr	123,000	121,863	121,863	0	0	0	3,400	0	USvOR Supplementation
			Dwor B	2012	Red House Hole-SF	8-Apr	220,000	208,845	0	139,230	69,615	0	6,000	0	Production
			Dwor B	2012	Meadow Creek-SF	8-Apr	150,000	258,399	0	258,399	0	0	7,100	0	Production
			Dwor B	2012	Meadow Creek-SF	8-Apr	70,000	72,367	72,367	0	0	0	2,000	0	US v OR supplementation
			SF-CLWR	2012	Meadow Creek-SF	8-Apr	140,000	143,982	0	71,133	72,849	0	3,900	0	Localized Broodstock Production
			SF-CLWR	2012	Meadow Creek-SF	8-Apr	140,000	153,360	0	0	0	153,360	4,200	0	USvOR Supplementation
					Sub-total		843,000	958,816	194,230	468,762	142,464	153,360	26,600		
					TOTAL		2,943,000	3,120,586	400,000	2,257,277	309,949	153,360	56,984		

¹ PIT tags distributed amongst all mark/tag groups unless otherwise noted.

² In the event the access road into Lolo Creek is inaccessible during scheduled outplant on April 16, 2013 an alternate plan is for 140,000 to be outplanted into Meadow Creek (S.F. Clearwater River) that week by both ACOE and NPT drivers, with the other 60,000 to be outplanted by the NPT into Lolo Creek later in April.

Table 2. 2013 DNFH Steelhead Spawning/Egg Take Plan - BY 2013

E = Early Return	Spawn Date 2013	Total DW Female Spawned	Female DW	Female CWH	Female S Fork Local BS CWH	Female MVH	Female NPT Kelt	Eggs/ Female	Grn Eggs incub @ DWO for CWH	Grn Eggs incub @ Dwor for Local BS CWH	Grn Eggs incub @ DWO for MVH	Eyed Eggs into DW Nursery	Green Eggs Potlatch
1 E	1/8/2013	75	75					6,700				320,000	
2 E	1/15/2013	75	75					6,700				320,000	
3	2/12/2013	60	60					6,700				320,000	
4	2/26/2013	80	80				80	5,000				320,000	
5	3/5/2013	80	80				80	5,000				320,000	
6	3/12/2013	105	0	105	45			6,700	703,500	301,500		0	
7	3/19/2013	135	60	75	45			6,700	502,500	301,500		320,000	
8	3/26/2013	180	0			180		6,700	0	0	1,206,000	0	
9	4/2/2013	60	60			0		6,700			0	320,000	18,000
10	4/16/2013	60	60			0		6,700			0	320,000	
Tot/Ave		910	550	180	90	180	160	6,700	1,206,000	603,000	1,206,000	2,560,000	18,000

Table 3. Steelhead Marking Plans, 2013.

2012 Clearwater AOP

Fish Hatchery	Agency	Species	Stock	Brood Year	Release Location	Marking in 2013	Program Goal	Estimated Release	No Mark or Clip	AD Only	AD/CWT	CWT Only	¹ PIT in 2014	Other Marks	Marking Agency	Comments
Dworshak NFH	FWS	STHD	Dwor B	2013	Dworshak NFH	Aug-Sep	1,200,000	1,200,000	0	1,056,700	143,300	0	18,300	0	FWS	PITs - 1,500 SMP, then 30% CSS, 70% eval
					Clear Creek	Aug-Sep	300,000	300,000	0	280,000	20,000	0	3,600	0	FWS	PIT tags - 30% CSS, 70% eval
					SF CLWR, Red House	Aug-Sep	400,000	400,000	0	378,700	21,300	0	5,300	0	FWS	PIT tags - 30% CSS, 70% eval
					Lolo Creek	Aug-Sep	200,000	200,000	200,000	0	0	0	3,300	0	FWS	PIT tags - 70% eval, 30% CSS USvOR Supplementation
						Sub-total	2,100,000	2,100,000	200,000	1,715,400	184,600	0	30,500	0		
Clearwater	IDFG	STHD	Dwor B	2013	Newsome Creek-SF	August PIT Feb 2014	123,000	123,000	123,000	0	0	0	3,400	0	IDFG	USvOR Supplementation
			Dwor B		Red House Hole-SF	August PIT Feb 2014	220,000	220,000	0	220,000	0	0	6,000	0	IDFG	Production
			Dwor B		Meadow Creek-SF	August PIT Feb 2014	150,000	150,000	0	150,000	0	0	7,100	0	IDFG	Production
			Dwor B		Meadow Creek-SF	August PIT Feb 2014	70,000	70,000	70,000	0	0	0	2,000	0	IDFG	US v OR supplementation
			SF-CLWR		Meadow Creek-SF	August PIT Feb 2014	140,000	140,000	0	140,000	0	0	3,900	0	IDFG	Localized Broodstock Production
			SF-CLWR		Meadow Creek-SF	August PIT Feb 2014	140,000	140,000	0	0	0	140,000	4,200	0	IDFG	USvOR Supplementation
						Sub-total	843,000	843,000	193,000	510,000	0	140,000	26,600	0		
						TOTAL	2,943,000	2,943,000	393,000	2,225,400	184,600	140,000	57,100	0		

¹ PIT tagging occurs in January at DNFH. PIT tagging occurs in February at CFH.

Table 4. Clearwater Basin Spring/Summer Chinook Salmon Projected Releases, 2013.

2013 Clearwater AOP

Fish Hatchery	Agency	Species	Stock	Brood Year	Release Location	Release Date	Program Goal	Estimated Release	No Mark or Clip	AD Only	AD/CWT	CWT Only	PIT	Other Marks	Comments
Dworshak NFH	FWS	SCS	Dworshak	2011	Dworshak NFH	March	1,050,000	1,380,000	0	1,260,000	120,000	0	52,000	0	PIT tagging - CSS (FWS)
Dworshak NFH	FWS	SCS	Powell	2012	Upper Selway McGrudger	Aug/Sep	300,000	282,000	282,000	0	0	0	0	0	Parr release 100% PBT.
Kooskia NFH	FWS	SCS	Kooskia	2011	Kooskia NFH	March	600,000	685,980	54,915	530,665	100,400	0	14,680	0	PIT - 15K eval
							Sub-total	1,950,000	2,347,980	336,915	1,790,665	220,400	0	66,680	0
Clearwater	IDFG	SCS	SF	2011	Red River Pond	28-Mar	1,100,000	1,086,000	0	558,300	527,700	0	17,100	0	PITs for project area escapement & harvest management
			Powell	2011	Powell Pond	Mar 20-22	400,000	408,600	0	289,500	119,100	0	17,100	0	PITs for project area escapement & harvest management
			Powell	2011	Selway - lower	18-Mar	400,000	426,900	0	175,500	118,300	133,100	17,100	0	Transport and release by NPT
			Kooskia/ Powell	2011	Clear Creek	19-Mar	235,000	378,300	0	259,500	118,800	0	17,100	0	
			Powell	2012 ¹	NPTH - Transfer	10-Sep	200,000	200,000	0	0	66,000	134,000	0	0	Smolt release from NPTH in 2014. CWT by IDFG in 13, PIT by NPT in 14, (33% AD, 100% CWT provided by NPT)
		SUM	McCall	2011	Crooked River	25-Mar	200,000	208,500	0	0	0	208,500	25,500	0	First release of summer Chinook into Crooked River was in 2011
							Sub-total	2,335,000	2,508,300	0	1,282,800	883,900	341,600	93,900	0
NPTH	NPT	SCS	Powell	2011 ¹	NPTH - Clearwater River	April 1-13	200,000	205,000	0	0	24,600	180,400	600	0	Early reared at CFH, released as smolts @ 20 fpp. 600 PIT
			NPTH	2012	Newsome Cr	Oct 4-18	75,000	75,000	0	0	0	75,000	3,000	0	Pre-smolt - acclimated, 29 fpp
			NPTH	2012	Lolo Cr	Oct 3-17	150,000	150,000	0	0	0	150,000	6,000	0	Pre-smolt - acclimated, 34 fpp
			NPTH	2012	Meadow Cr - Selway	June 25-29 & Sep 1-10	400,000	400,000	0	0	0	0	5,000	400,000	Slims Camp. Up to 100K of this group provided by DNFH - release in early Sept same location. PBT mark.
							Sub-total	825,000	830,000	0	0	24,600	405,400	14,600	400,000
							TOTAL	5,110,000	5,686,280	336,915	3,073,465	1,128,900	777,016	175,180	400,000

¹ These fish are reared from green eggs to pre-smolt (approx. 50-75 fpp) at CFH per agreement with the NPT. Each year in September, they are transferred to NPTH. In April of the following year, they are released into the Clearwater river directly from NPTH. as smolts at 20 fpp. Adults returning to NPTH from this program provide broodstock for the Meadow Creek program. They also act as a backup broodstock source for the Lolo and Newsome Creek programs, and for other Subbasin programs.

Table 5. Spring/Summer Chinook Salmon Marking Plans, 2013.

2013 Clearwater AOP

Fish Hatchery	Agency	Species	Stock	Brood Year	Release Location	Marking in 2013	Program Goal	Estimated Release	No Mark or Clip	AD Only	AD/CWT	CWT Only	¹ PIT in 2014	Other Marks	Marking Agency	Comments
Dworshak NFH	FWS	SCS	Dworshak	2012	Dworshak NFH	August	1,050,000	1,475,000	0	1,415,000	60,000	0	52,000	0	FWS	PIT tagging 52k - CSS.
			Powell	2012	Selway - upper	May	300,000	282,000	282,000	0	0	0	0	0	FWS	Parr - NPT program
			Dworshak	2012	Dworshak NFH	August	400,000	400,000	0	340,000	60,000	0	0	0	FWS	Burrows Ponds
			Dworshak	2012	Meadow Creek SF Clwr	August	300,000	300,000	0	300,000	0	0	0	0	FWS	Burrows Ponds
			Dworshak	2012	Clear Creek	August	300,000	300,000	0	300,000	0	0	0	0	FWS	Burrows Ponds
Kooskia NFH	FWS	SCS	Kooskia	2012	Kooskia NFH	July-August	600,000	600,000	50,000	450,000	100,000	0	15,000	0	FWS	PIT - 15K eval
						Sub-total	2,950,000	3,357,000	332,000	2,805,000	220,000		67,000	0		
Clearwater	IDFG	SCS	SF	2012	Red River Pond	May	1,100,000	1,100,000	0	980,000	120,000	0	17,100	0	IDFG	PITs for project area escapement & harvest management
			Powell	2012	Powell Pond	May	400,000	400,000	0	280,000	120,000	0	17,100	0	IDFG	PITs for project area escapement & harvest management
			Kooskia/DNFH	2012	Clear Creek	May	235,000	235,000	0	115,000	120,000	0	17,100	0	IDFG	
			Powell	2012	Selway - lower	May	400,000	400,000	0	145,000	120,000	135,000	17,100	0	IDFG	
			Powell	2012	NPTH (Not included in subtotal)	May	200,000	200,000	0	0	66,000	134,000	600	0	IDFG	Smolt release from NPTH in 2014. CWT by IDFG in 13, PIT by NPT in 2014 prior to release.
Clearwater	IDFG	SUMCS	McCall	2012	Crooked River Trap	May	400,000	440,000	0	0	0	440,000	25,500	0	IDFG	2011 First year of summer Chinook releases at Crooked River
						Sub-total	2,535,000	2,575,000	0	1,520,000	480,000	575,000	93,900	0		
NPTH	NPT	SCS	Newsome / NPTH	2012	Newsome Cr	May-June	75,000	75,000	0	0	0	75,000	3,000	0	NPT	Pre-smolt - acclimated
			Lolo / NPTH	2012	Lolo Cr	May-Jun	150,000	150,000	0	0	0	150,000	6,000	0	NPT	Pre-smolt - acclimated
			NPTH / DNFH	2012	Meadow Creek at Slims Camp	NA	400,000	400,000	0	0	0	0	5,000	400,000	NPT	Parr - released into Meadow Creek at Slims Camp in late June. Up to 100K provided by DNFH for 2013 only, which will be outplanted in September. PBT mark.
						Sub-total	625,000	625,000	0	0	0	225,000	14,000	400,000		
						TOTAL	6,110,000	6,557,000	332,000	4,325,000	700,000	800,000	174,900	400,000		

¹ PIT tagging occurs in January thru March at DNFH. PIT tagging occurs in February at KNFH and at CFH. PIT tagging at NPTH occurs in September for all groups except the CFH smolts, which are PIT tagged in March prior to release.

Table 6a. FWS predicted 2013 returns of spring Chinook salmon to the Clearwater River from Dworshak and Kooskia Releases

Site	Ocean Age Class			Total	Broodstock Need
	I -Ocean	II -Ocean	III -Ocean		
Dworshak NFH	979	4,609	0	5,588	1,000
Kooskia NFH	549	5,992	0	6,541	600

Table 6b. IDFG forecasted 2013 returns to the project area for adult spring Chinook salmon from Clearwater Hatchery Releases

Site	Total	Broodstock Need	Comments
Powell	580	796	
SF Clearwater	1,246	942	Includes broodstock for NPTH 200K smolt program.
Clear Creek	390	200	to be collected at Kooskia
Selway ad clipped	422	NA	included in Powell
Total	2,638	1,938	

Table 6c. NPT projected spring Chinook salmon adult returns for 2013.

Site	Unclipped	AD Clipped	Total	Broodstock Need
Lolo Creek	291	0	291	108
Newsome Creek	110	0	110	54
NPTH (Meadow Creek)	223	103	326	NA
Meadow Creek	50	0	50	284

Table 7a. 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	Proposed Max
<i>Selway Basin</i>			
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
<i>SF Clearwater R.</i>			
Mill Creek	RR, NPTH, Clear, DNFH	150	600
Meadow Creek	RR, NPTH, Clear, DNFH	150 - 300	
SF Clearwater R.	RR, NPTH, Clear, DNFH	0 - 500	
<i>Lochsa River</i>			
Main Lochsa Badger Cr. Boulder Cr.	RR, NPTH, Clear, DNFH	500	
TOTAL		1,800 - 4,650	10,000

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

Table 7b. Proposed hatchery identifying marks for adult spring Chinook salmon outplanting in the Clearwater River.

Hatchery / Location	Mark	Purpose
Dworshak	left opercle v-notch	outplant
Kooskia	1) 2 right opercle v-notches	outplant / fishery recycle
	2) if recycle returnees - additional upper caudal clip	outplant / fishery recycle
Clear Creek above weir	right opercle v-notch	ISS and natural spawners
Lochsa (Powell satellite)	left opercle punch	fishery recycle / outplant
Crooked Fork Cr weir	right opercle punch	ISS - natural fish above weir
Red River/Crooked River	1) right opercle punch	fishery recycle
	2) 2 right opercle punches	outplant (early)
Rapid River	dorsal punch	Clearwater (Selway) outplants
Lower Lolo Ck weir	left and right opercle punch	NPT weir evaluation (fish collected at weir and released above weir)
Upper Lolo Ck weir	right opercle punch	NPT weir evaluation (fish collected at weir and released above weir)
Newsome Ck above weir	left opercle punch	NPT weir evaluation (fish collected at weir and released above weir)
NPTH	left opercle punch	outplant / fishery recycled to Lenore Boat Ramp

Table 8. Clearwater Basin Coho Projected Releases, 2013.

2013 Clearwater AOP

Fish Hatchery	Agency	Species	Stock	Brood Year	Release Location	Release Date	Program Goal	Estimated Release	No Mark or Clip	AD Only	AD/CWT	CWT Only	PIT	Other Marks	Comments
Eagle Creek	NPT	Coho	Eagle Creek	2011	Lapwai Creek	March	275,000	275,000	0	0	0	30,000	5,000		Direct Stream smolts, 20 fpp 0 Clearwater stock
			Eagle Creek	2011	Clear Creek	March	275,000	275,000	0	0	0	30,000	5,000		Acclimated at Kooskia, Clearwater 0 stock
Dworshak NFH	NPT	Coho	Clearwater	2011	Clear Creek	early April	300,000	323,000	0	0	0	60,000	5,000		0 Acclimated smolts, 20 fpp
						TOTAL	850,000	873,000	0	0	0	120,000	15,000	0	

Table 9. Coho Marking Plans, 2013.

2013 Clearwater AOP

Fish Hatchery	Agency	Species	Stock	Brood Year	Release Location	Marking Dates	Program Goal	Estimated Release	No Mark or Clip	AD Only	AD/CWT	CWT Only	PIT	Other Marks	Marking Agency	Comments
Eagle Creek	NPT	Coho	Clearwater	2012	Lapwai Creek	June	275,000	275,000				30,000	5,000		FWS	Smolt - direct stream, 20 fpp
			Clearwater	2012	Clear Creek	June	275,000	275,000				30,000	5,000		FWS	Smolt - direct stream, 20 fpp
Dworshak NFH	NPT	Coho	Clearwater	2012	Clear Creek	Sept	300,000	323,000				60,000	5,000		NPT	Smolt - acclimated, 20 fpp
						TOTAL	850,000	873,000	0	0	0	120,000	15,000	0		

Table 10. Clearwater Basin Fall Chinook Salmon Projected Releases, 2013.

2013 Clearwater AOP

Fish Hatchery	Agency	Species	Stock	Brood Year	Release Location	Release Date	Program Goal	Estimated Release	No Mark or Clip	AD Only	AD/CWT	CWT Only	PIT	Other Marks	Comments	
Lyons Ferry	NPT	FACH	Snake River	2011	Big Canyon Creek	17-Apr	150,000	150,000	0	0	70,000	80,000	3,000	0	Yearlings - released at 10 fpp. PIT for estimate survival, migration rate and timing thru the FCRPS. CWT for SAR's.	
				2012	Big Canyon Creek	23-May	500,000	500,000	300,000	0	100,000	100,000	3,000	0	Sub-yearlings - acclimated, 75-50 fpp. PIT for estimate survival, migration rate and timing thru the FCRPS. CWT for SAR's.	
NPTH	NPT	FACH	Snake River	2012	NPTH	Jun 3-14	500,000	725,000	425,000	0	100,000	200,000	3,000	0	Sub-yearlings - acclimated, 50 fpp. PIT for standard outmigration monitoring.	
				2012	N Lapwai Valley	10-May	500,000	500,000	200,000	0	100,000	200,000	3,000	0	Sub-yearlings - acclimated, 50 fpp actual goal. Due to water temp issues (low DO's), fish are usually released around 100-70 fpp.	
				2012	Lukes Gulch	14-Jun	200,000	200,000	0	0	100,000	100,000	3,000	0	Subyearlings - acclimated, 50 fpp. 3,000 PIT for standard outmigration monitoring.	
				2012	Cedar Flats	14-Jun	200,000	200,000	0	0	100,000	100,000	3,000	0	Subyearlings - acclimated, 50 fpp. 3,000 PIT for standard outmigration monitoring.	
							TOTAL	2,050,000	2,275,000	925,000	0	570,000	780,000	18,000	0	

Table 11. Fall Chinook Salmon Marking Plans, 2013.

2013 Clearwater AOP

Fish Hatchery	Agency	Species	Stock	Brood Year	Release Location	Marking Dates	Program Goal	Estimated Release	No Mark or Clip	AD Only	AD/CWT	CWT Only	¹ PIT	Other Marks	Marking Agency	Comments
Lyons Ferry	NPT	FACH	Snake River	2011	Big Canyon Creek	July	150,000	150,000	0	0	70,000	80,000	3,000		WDFW for Tags/Clips; 0 NPT for PIT	Yearlings - released at 10 fpp. PIT for estimate survival, migration rate and timing thru the FCRPS. CWT for SAR's.
				2012	Big Canyon Creek	March	500,000	500,000	300,000	0	100,000	100,000	3,000		WDFW for Tags/Clips; 0 NPT for PIT	Sub-yearlings - acclimated, 75-50 fpp. PIT for estimate survival, migration rate and timing thru the FCRPS. CWT for SAR's.
NPTH	NPT	FACH	Snake River	2012	NPTH	Mar-May	500,000	725,000	425,000	0	100,000	200,000	3,000	0	NPT	Sub-yearlings - acclimated, 50 fpp. PIT for standard outmigration monitoring.
				2012	N Lapwai Valley	April	500,000	500,000	200,000	0	100,000	200,000	3,000	0	NPT	Sub-yearlings - acclimated, 50 fpp actual goal. Due to water temp issues (low DO's), fish are usually released around 100-70 fpp.
				2012	Lukes Gulch	May	200,000	200,000	0	0	100,000	100,000	3,000	0	NPT	Subyearlings - acclimated, 50 fpp. 3,000 PIT for standard outmigration monitoring.
				2012	Cedar Flats	May	200,000	200,000	0	0	100,000	100,000	3,000	0	NPT	Subyearlings - acclimated, 50 fpp. 3,000 PIT for standard outmigration monitoring.
TOTAL							2,050,000	2,275,000	925,000	0	570,000	780,000	18,000	0		

¹ Pit tagging of Big Canyon yearlings occurs in January, just prior to transfer. PIT tagging of Big Canyon subyearlings occurs in April, just prior to transfer. PIT tagging of all NPTH subyearlings occurs in April-May.