

2011

Clearwater River Basin

Annual Operating Plan

Projected Release and Marking Tables

March 1, 2011

Table 1. Clearwater Basin Steelhead Projected Releases, 2011.

2011 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	STHD	Dwor B	2010	Dworshak NFH	3/28-4/1	1,200,000	1,200,000		1,019,260	180,740		16,272	LV - 180,741 RV 90,098	PITs - 1,500 SMP, 5,050 CSS, 11,222 eval
					Clear Creek	3/21-3/25	300,000	400,000		400,000			4,807		PITs - 1,492 CSS, 3,315 eval
					SF CLWR, Red House	3/21-3/25	400,000	450,000		450,000			5,378		PITs - 1,669 CSS, 3,709 eval
					Lolo Creek	mid-Apr	200,000	60,000	60,000				855		PIT tags - 265 CSS, 590 HEV USvOR Supplementation
					SF CLWR, Peasley Cr	3/21-3/25		110,000	110,000				1,689		PIT tags - 524 CSS, 1,165 HEV USvOR Supplementation
						Sub-total	2,100,000	2,220,000	170,000	1,869,260	180,740	0	29,001		
Clearwater	IDFG	STHD	Dwor B	2010	Peasley Creek-SF	mid-April	291,000	301,000	72,000	181,000	50,000	0	7,300		72K US v OR supplementation, 219K Production
			Dwor B		Red House Hole-SF	mid-April	219,000	229,000		152,900	74,100	0	7,700		Production, Partial raceway (41,300) moved to Peasley Creek beginning BY10
			Dwor B		Newsome Creek-SF	mid-April	123,000	135,000	135,000	0	0	0	3,600		USvOR Supplementation
			SF-CLWR		Peasley Creek-SF	mid-April	210,000	213,000		71,000	0	142,000	15,300		adapted brood relative to Dwor hatchery brood.
						Sub-total	843,000	878,000	207,000	404,900	124,100	142,000	33,900		
						TOTAL	2,943,000	3,098,000	377,000	2,274,160	304,840	142,000	62,901		

2011 STHD RELEASES

2011 Clearwater AOP

Table 2. STEELHEAD SPAWNING / EGG TAKE PLAN AT DWORSHAK NFH - BROODYEAR 2011

E = Early Return	Spawn Date 2011	Total Female Spawned	Female DW	Female CWH	Female S Fork Local BS CWH	Female MVH	Female NPT Kelt	Eggs/ Female	Gm Eggs incub @ Dwor for CWH	Gm Eggs incub @ Dwor for Local BS CWH	Gm Eggs to CW for MVH	Eyed Eggs into DW Nurs/incub	Green Eggs Potlatch	NPT Kelts	Com ments
1 E	01/11	149	134				15	6,700				576,000		Eggs into Dw prod if needed & trans to NPT March 7	MS222 Incub cold H2O New fish MS222 Incub
1A	02/01	75	0				75	6,700				0			
2	02/22	55	55					6,700				280,000		Outplant excess CO2	1A Brood
3	03/01	55	55					6,700				280,000		↓	↓
4	03/08	160	55	105				6,700	703,500			280,000			
4A	03/09	45	0		45			6,700		301,500		0			Wed
5	03/15	85	55	30				6,700	201,000			280,000			
6	03/22	154	55			99		6,700			663,300	280,000	18,000		Outplant BY10 SST
7	03/29	168	55			113		6,700			757,100	280,000			
0	04/05	0	0					6,700				0			Open for
0	04/12	0	0					6,700				0			valve repair
8	04/19	55	55					6,700				280,000			
9	04/26	45	45					6,700				175,000			
0	05/03	0	0					0				0			
Tot/Ave		1,046	564	135	45	212	90	6,700	904,500	301,500	1,420,400	2,711,000	18,000		

← Grn Egg Estimate →

Est
17,500 per tank
280,000 per egg Take

Table 4. Clearwater Basin Spring/Summer Chinook Salmon Projected Releases, 2011.

2011 Clearwater AOP

Fish Hatchery	Agency	Species / Run	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	2009	Dworshak NFH	3/21 - 3/31	1,050,000	1,075,000	0	940,815	134,185	0	52,000		PIT tagging - CSS (FWS)
Kooskia NFH	FWS	SCS	Kooskia	2009	Kooskia NFH	3/24 - 4/4	600,000	657,000	0	448,570	158,414	50,016*	14,000		*50,016 agency-only-wire, PIT - 14K eval
			Kooskia	2010	Selway @ Meadow Cr	5/20		50,000	50,000						excess fry that cannot be reared to smolts
						Sub-total	1,650,000	1,782,000	50,000	1,389,385	292,599	50,016*	66,000		
Clearwater	IDFG	SCS	SF	2009	Red River Pond	April	1,100,000	1,117,000	0	999,800	117,200	0	17,100		PITs for project area escapement & harvest management
			Powell	2009	Powell Pond	April	400,000	413,000		287,800	125,200	0	17,100		PITs for project area escapement & harvest management
			Powell	2009	Selway - lower	April	400,000	414,000		152,000	120,000	142,000	17,100		Transport and release by NPT
			Powell	2009	Clear Creek	April	235,000	291,000		171,000	120,000	0	17,100		50K Flow index study
			SF	2010	Transfer to NPTH, release in 2012	10-Sep	200,000	200,000		0	66,000	134,000	0		Smolt release from NPTH in 2012. CWT by IDFG in 11, PIT by NPT in 12, (33% AD, 100% CWT provided by NPT)
			Powell	2010	Selway - upper	July	300,000	300,000	300,000	0	0	0	0		Parr Program-Transport to McGruder by NPT
		SUM	McCall	2009	Crooked River	April	200,000	204,000		0	0	204,000	25,500		First release of summer Chinook into Crooked River 2011
						Sub-total	2,835,000	2,939,000	300,000	1,610,600	548,400	480,000	93,900	0	
NPTH	NPT	SCS	SF	2009	NPTH - Clearwater River	April 1-15	200,000	240,000		0	77,280	162,720	6,300		Larv reared at CRT, released as smolts @ 20 fpp. 6,000 PIT mon mode; 300 surplus
			Newsome / NPTH	2010	Newsome Cr	Oct 2-15	75,000	75,000				75,000	6,000		Pre-smolt - acclimated, 29 fpp
			Lolo / NPTH	2010	Lolo Cr	Oct 1-14	150,000	150,000				150,000	9,000		Pre-smolt - acclimated, 34 fpp
			NPTH / Dworshak	2010	Meadow Cr - Selway	June 21-25	400,000	400,000				400,000	10,000		Parr - direct stream release, 117 fpp - lower 20 miles Meadow Creek
			NPTH / Dworshak	2010	TBD	TBD	0	184,000		TBD		TBD	TBD		Surplus to production targets. May be parr outplant, or split amongst production
						Sub-total	825,000	1,049,000	0	0	77,280	787,720	31,300		
						TOTAL	5,310,000	5,770,000	350,000	2,999,985	918,279	1,297,736	191,200		

2011 SCS RELEASES

Table 5. Spring/Summer Chinook Salmon Marking Plans, 2011.

2011 Clearwater AOP

Fish Hatchery	Agency	Species / Run	Stock	Brood Year	Release Location	Marking Date	Program Goal #	Estimated Release	No Mark or Clip	AD only	AD/CWT	CWT only	# PIT	Other Marks	Marking Agency	Comments
Dworshak NFH	FWS	SCS	Dworshak	2010	Dworshak NFH	Aug PIT - Jan 12	1,050,000	1,050,000		930,000	120,000		52,000		FWS	PIT tagging 52k - CSS
Kooskia NFH	FWS	SCS	Kooskia	2010	Kooskia NFH	Jul-Aug PIT - Feb 12	600,000	600,000	50,000	550,000	100,000		15,000		FWS	PIT - 15K eval
						Sub-total	1,650,000	1,650,000	50,000	1,480,000	220,000		67,000			
Clearwater	IDFG	SCS	SF	2010	Red River Pond	May PIT - Mar 12	1,100,000	1,100,000		980,000	120,000		17,100		IDFG	PITs for project area escapement & harvest management
			Powell	2010	Powell Pond	May PIT - Mar 12	400,000	400,000		280,000	120,000		17,100		IDFG	PITs for project area escapement & harvest management
			Kooskia	2010	Clear Creek	May PIT - Mar 12	235,000	235,000		115,000	120,000		17,100		IDFG	Moved 235 K Powell Pre-smolts/FTS rearing study to Clear Creek beginning By 07
			Powell	2010	Selway - upper	July	300,000	300,000	300,000						IDFG	Parr - NPT program
			Powell	2010	Selway - lower	May PIT - Mar 12	400,000	400,000		145,000	120,000	135,000	17,100		IDFG	Moved 100K Powell Presmolt/FTS rearing study to L Selway beginning BY 07. Marking-120k AD/CW, 147K AD-only, 133k CWT-only
			South Fork	2010	NPTH	May PIT - Mar 12	200,000	200,000			66,000	134,000	6,300	TBD	IDFG	Smolt release from NPTH in 2012. CWT by IDFG in 11, PIT by NPT in 12
Clearwater	IDFG	SUMCS	McCall	2010	Crooked River Trap	May PIT - Mar 12	200,000	200,000		0		200,000	25,500			2011 First year of summer Chinook releases at Crooked River
						Sub-total	2,835,000	2,835,000	300,000	1,520,000	480,000	335,000	100,200			
NPTH	NPT	SCS	Newsome / NPTH	2010	Newsome Cr	late Apr PIT - Sept	75,000	75,000				75,000	6,000		NPT	Pre-smolt - acclimated
			Lolo / NPTH	2010	Lolo Cr	late Apr PIT - Sept	150,000	150,000				150,000	9,000		NPT	Pre-smolt - acclimated
			NPTH / DNFH	2010	Meadow Cr - Selway	late Apr PIT - May	400,000	584,000	184,000			400,000	10,000		NPT	Parr - direct stream, plus surplus production
						Sub-total	625,000	809,000	184,000	0	0	625,000	25,000			

2011 SCS MARKING

Table 6a. FWS predicted 2011 returns of spring Chinook salmon to the Clearwater River from Dworshak and Kooskia NFHs releases.

Site	Ocean Age Class			Total	Broodstock Need
	I -Ocean	II -Ocean	III -Ocean		
Dworshak NFH	114	3,054		3,168	1,000
Kooskia NFH	95	184		279	600

Table 6b. IDFG forecasted 2011 returns to the project area for adult spring Chinook salmon from Clearwater Hatchery releases.

Site	Total	Broodstock Need
Powell	1,177	766
SF Clearwater	1,442	940
Clear Creek	620	200 to be collected at Kooskia
NPTH ad clipped	130	# included in SF Clearwater
Selway ad clipped	760	# included in Powell
Total	4,129	

Table 6c. NPT projected spring Chinook salmon adult returns for 2011.

Site	Total	Broodstock Need
Lolo Creek	117	110
Newsome Creek	70	56
NTPH	399 II-ocean	15 jacks
		292 for Meadow Cr

No estimates were made for adult return to Meadow Creek, Selway

Table 7a. Sites, release numbers, and marks for adult Spring Chinook Salmon, when all Clearwater basin production programs are above broodstock needs.*

Release Location	Hatchery Source	Number Limit	Proposed 2009 Limit
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	
Lochsa River			
Main Lochsa Cr.	Badger Boulder Cr. RR, NPTH, Clear, DNFH	500	
Subtotal		1,800 - 4,650	10,000

*Release Locations are not prioritized

There are weekly conference calls scheduled for Tuesdays (starting May, 2010), to keep all parties updated, informed, and coordinated on in-season run development, harvest estimates, broodstock collection, outplanting plans, etc...

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
SF Clearwater satellites -		
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	1) left and right opercle punch	NPT weir evaluation (fish collected at weir and released above weir)
Upper Lolo Ck weir	1) <i>right opercle punch</i>	NPT weir evaluation (fish collected at weir and released above weir)
Newsome Ck above weir	1) left opercle punch	NPT weir evaluation (fish collected at weir and released above weir)
NPTH	TBD	TBD

Table 10. Clearwater Basin Fall Chinook Salmon Projected Releases, 2011.

2011 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	2009	Big Canyon Creek	15-Apr	150,000	150,000			70,000	80,000	19,000		Yearlings - 19,000 PIT for transportation study
				2010	Big Canyon Creek	27-May	500,000	500,000	300,000		100,000	100,000	41,051		Sub-yearlings - acclimated, 50 fpp 41,051 PIT for transportation study
NPTH	NPT	FACH	Snake River	2010	NPTH	1-10 Jun	500,000	500,000	200,000		100,000	200,000	3,000		Sub-yearlings - acclimated, 50 fpp
				2010	N Lapwai Valley	15-May	500,000	500,000	200,000		100,000	200,000	3,000		Sub-yearlings - acclimated, 50 fpp
				2010	Lukes Gulch	14-Jun	200,000	200,000			100,000	100,000	15,408		Subyearlings - acclimated, 50 fpp 15,408 PIT for Transportation study
				2010	Cedar Flats	15-Jun	200,000	200,000			100,000	100,000	15,408		Subyearlings - acclimated, 50 fpp 15,408 PIT for Transportation study
						Sub-total	2,050,000	2,050,000	700,000	0	570,000	780,000	96,867		
Dworshak	FWS	FACH	Snake River	2010	Couse Cr, Snake R.	5/9 - 6/6		229,600					229,600		Transportation / Spill Study
				2010	Big Canyon Cr.	6/29 - 7/18		98,400					98,400		Transportation / Spill Study
						Sub-total		328,000					328,000		
						TOTAL	2,050,000	2,378,000			570,000	780,000	424,867		

2011 FACH RELEASES

Table 11. Fall Chinook Salmon Marking Plans, 2011.

2011 Clearwater AOP

Fish Hatchery	Agency	Species	Stock	Brood Year	Release Location	Marking Date	Program Goal #	Estimated Release	AD only	AD/CWT	CWT only	# PIT	Other Marks	Marking Agency	Comments
Lyons Ferry	NPT	FACH	Snake River	2010	Big Canyon Creek	Apr- May PIT - 2011	500,000	500,000		100,000	100,000	38,521		WDFW	sub-yearlings, 50 fpp
				2009	Big Canyon Creek	April PIT - 2011	150,000	150,000		70,000	80,000	19,000		WDFW	yearlings, 10fpp
NPTH	NPT	FACH	Snake River	2010	Site 1705 - NPTH	Mar-May	500,000	500,000		100,000	200,000	3,000		NPT	sub-yearlings, 50 fpp
				2010	N Lapwai Valley	April	500,000	500,000		100,000	200,000	3,000		NPT	sub-yearlings, 50 fpp
				2010	Lukes Gulch	May	200,000	200,000		100,000	100,000	15,408		NPT	sub-yearlings, 50 fpp
				2010	Cedar Flats	May	200,000	200,000		100,000	100,000	15,408		NPT	sub-yearlings, 50 fpp
						Sub-total	2,050,000	2,050,000		370,000	780,000	94,337			
Dworshak	FWS	FACH	Snake River	2010	Couse Cr, Snke R.	5/9 - 6/6		229,600				229,600			Transportation / Spill Study
				2010	Big Canyon Cr.	6/29 - 7/18		98,400				98,400			Transportation / Spill Study
						Sub-total		328,000				328,000			

2011 FACH MARKING