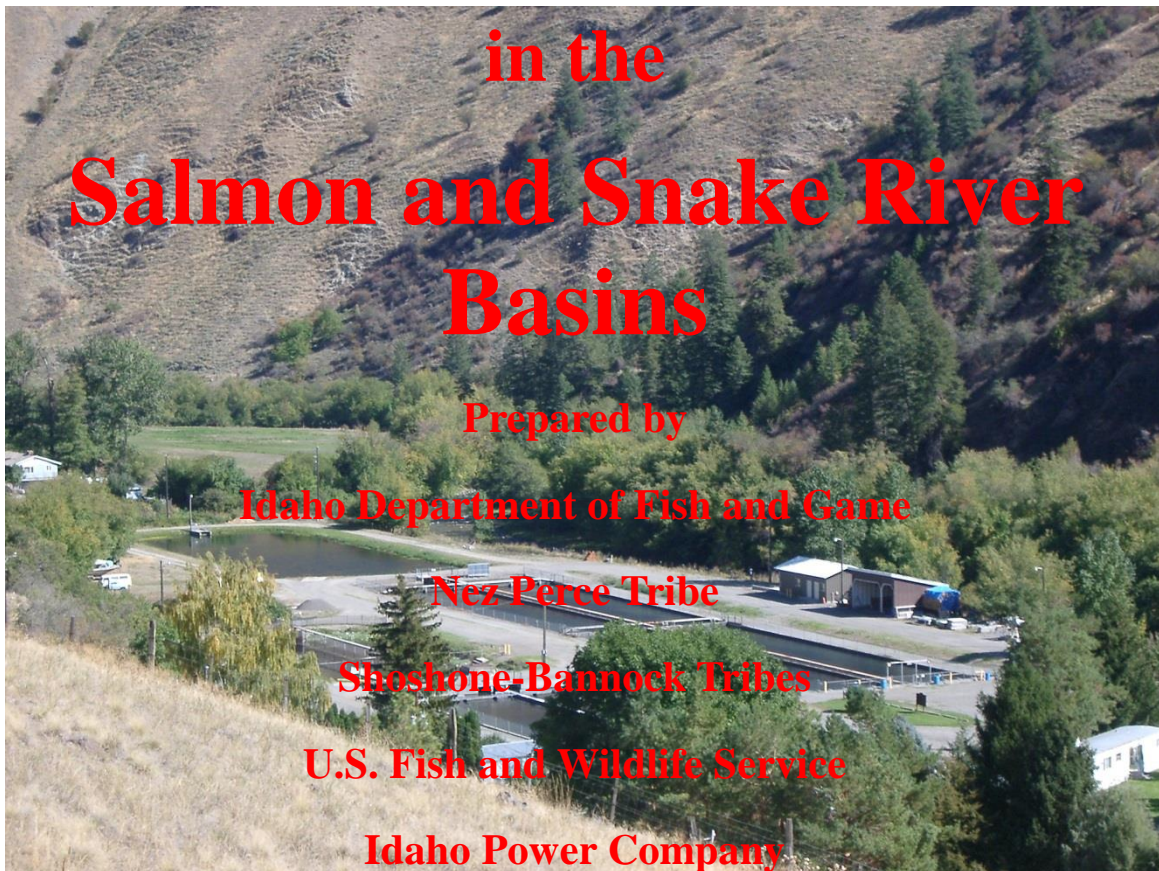




**Calendar Year 2015
Annual Operation Plan
for
Salmon and Steelhead
Production Programs**



**in the
Salmon and Snake River
Basins**

Prepared by

Idaho Department of Fish and Game

Nez Perce Tribe

Shoshone-Bannock Tribes

U.S. Fish and Wildlife Service

Idaho Power Company

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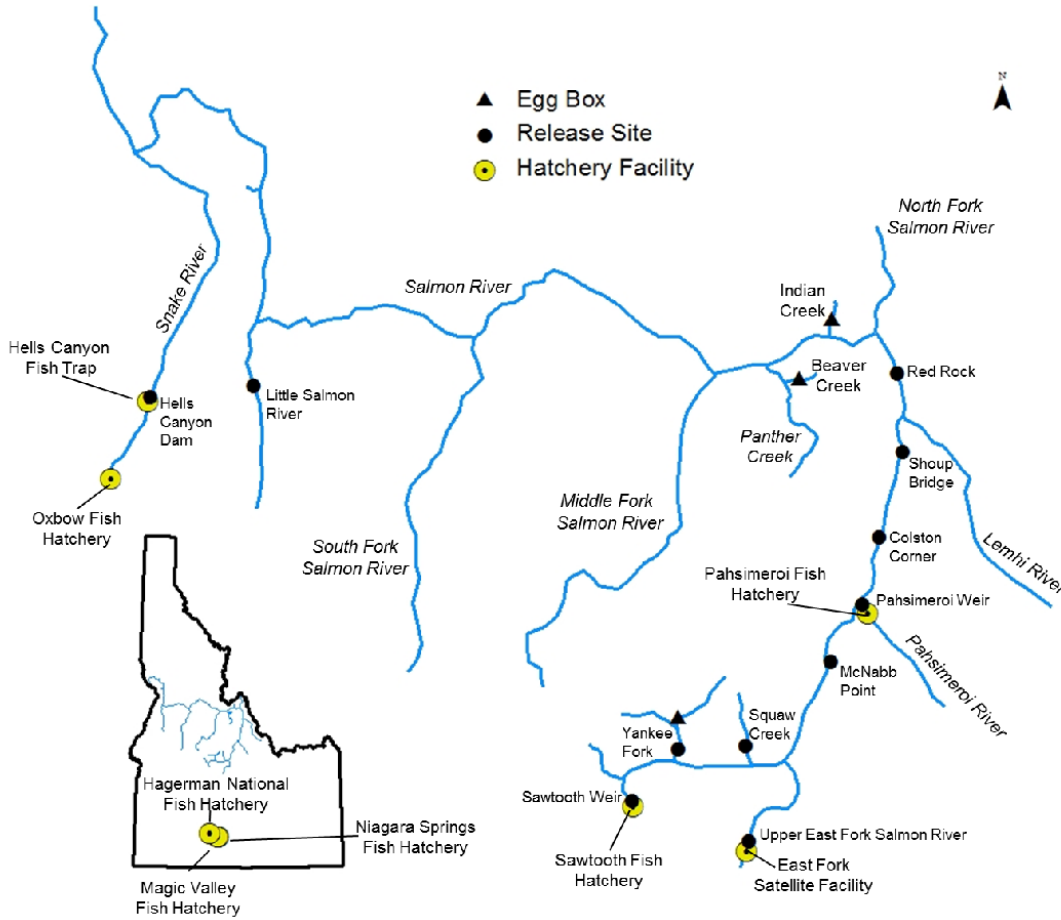
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1. Summer Steelhead



Smolt Release Program	Rearing Facility	Release Site	Parent Stock	2015 Smolt Release Goal	
LSRCP / IDFG	HNFH	Sawtooth Weir	SawA	1,280,000	
	HNFH	Sawtooth Weir (RAS Eval)	SawA	90,000	
	HNFH	Salmon R. - McNabb Pt.	SawA	130,000	
	HNFH	E. Fork Salmon R. - Upper	EFNat	60,000	
	Total				1,560,000
	MVFH	Salmon R. - Colston Corner	PahA	93,000	
	MVFH	Salmon R. - Shoup Br.	PahA	93,000	
	MVFH	Salmon R. - Red Rock	PahA	93,000	
	MVFH	Little Salmon R. - Stinky Sp.	PahA	186,000	
	MVFH	Pahsimeroi Weir	USRB	93,000	
	MVFH	Pahsimeroi Weir	DworB	93,000	
	MVFH	Yankee Fork	USRB	496,000	
	MVFH	Squaw Creek	DworB	186,000	
	MVFH	Little Salmon - Stinky Sp.	USRB	217,000	
Total				1,550,000	
IPC / IDFG	NSFH	Pahsimeroi Weir	PahA	800,000	
	NSFH	Little Salmon R. - Stinky Sp.	PahA	200,000	
	NSFH	Little Salmon R. - Stinky Sp.	OxbA	250,000	
	NSFH	Snake R. Hells Canyon	OxbA	550,000	
Total				1,800,000	
Grand Total				4,910,000	

Egg Box Program	Hatchery Egg Source	Egg Box Site	Parent Stock	Egg Box 2015 Outplant Goals
SBT	PFH	Yankee Fork	USRB/DworB ¹	500,000
		Panther Creek	PahA	400,000
		Indian Creek	PahA	100,000
		Total		

¹ If smolt releases for Yankee Fork and Pahsimeroi are met and egg box needs cannot be met with USRB eggs, then DworB eggs will be considered for the SBT egg box program if available

Figure 1.1. Steelhead hatchery facilities, smolt release locations and egg box sites. Table gives 2015 smolt release goals by release site.

1.1. Timeline for Steelhead Production

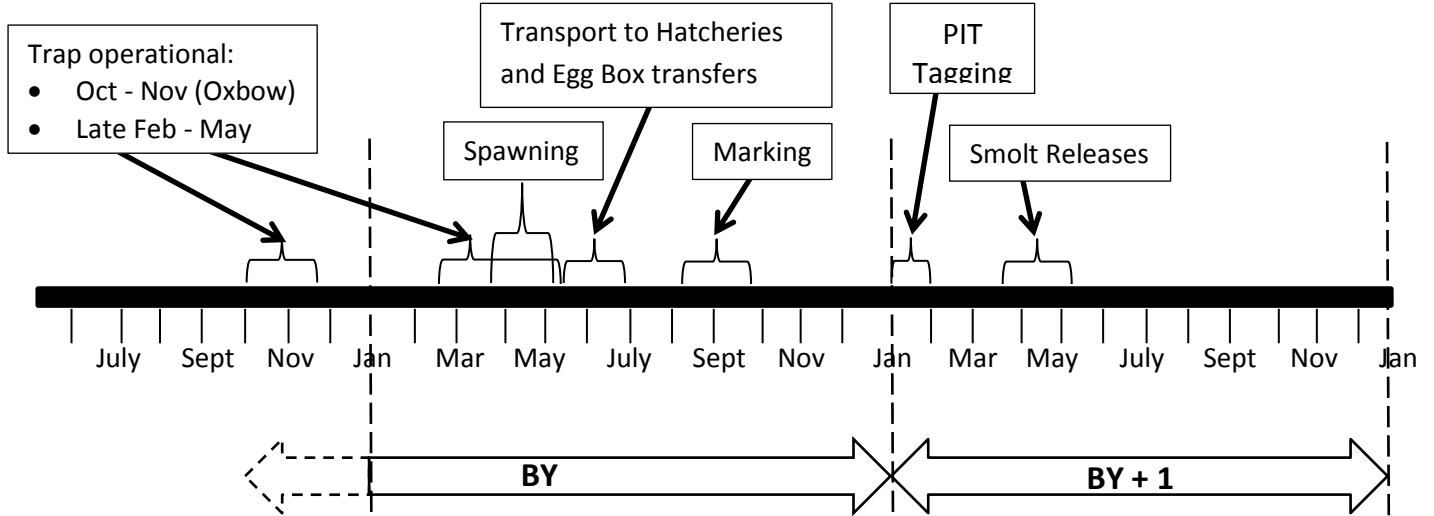


Figure 1.2. Timeline for Steelhead Production. Date ranges are shown to include all facilities' operations

1.2. Releases in 2015 (Smolt BY 2014, Egg Box BY 2015)

1.2.1. Releases in 2015 (Smolt BY 2014, Egg Box BY 2015) – Totals

Table 1.2a. Steelhead Rearing Metrics for BY 2014 fish

Hatchery	Release Site	Stock	Eggs/Fry Shipped / Received	Inventory To Date		Release Goals		Excess Fry/ Fingerlings Released		Projected Smolt Releases		
				Date	Number	Number	Size (FPP)	Number	Release Site (Date)	Dates	Number	Size (FPP)
HNFH	Sawtooth Weir	SawA	1,376,935	1/14/2015	1,254,090	1,280,000	4.5			4/6-30/15	1,254,090	4.5
HNFH	Sawtooth Weir (RAS Eval)	SawA	98,566	1/14/2015	92,412	90,000	4.5			4/6-30/15	92,412	4.5
HNFH	Salmon R. - McNabb Pt.	SawA	142,089	1/14/2015	128,971	130,000	4.5			3/31-4/3/15	128,900	4.5
HNFH	E. Fork Salmon R. - Upper	EFNat	67,253	1/14/2015	61,484	60,000	4.5			5/1/15	61,400	4.5
Totals			1,684,843		1,536,957	1,560,000		0			1,536,802	
MVFH	Salmon R. - Colston Corner	PahA	1,112,235	1/20/2015	192,588	93,000	4.5	136,900	Salmon Falls Reservoir 9/25/14	4/8-4/10	190,000	4.5
MVFH	Salmon R. - Shoup Br.	PahA		1/20/2015	160,502	93,000	4.5			4/6-4/7	160,000	4.5
MVFH	Salmon R. - Red Rock	PahA		1/20/2015	163,352	93,000	4.5			4/1-4/3	160,000	4.5
MVFH	Little Salmon R. - Stinky Sp.	PahA		1/20/2015	383,059	186,000	4.5			4/13-4/20	380,000	4.5
MVFH	Squaw Creek	DworB		-	0	186,000	4.5			-	0	-
MVFH	Pahsimeroi Weir	DworB	301,840	1/20/2015	96,347	93,000	4.5			4/21-4/22	95,000	4.5
MVFH	Yankee Fork	DworB		1/20/2015	192,861		4.5			4/24-5/4	180,000	4.5
MVFH	Yankee Fork	USRB		1/20/2015	294,000	496,000	4.5			4/28-5/5	290,000	4.5
MVFH	Pahsimeroi Weir	USRB	471,078	1/20/2015	96,177	93,000	4.5			4/23-4/24	95,000	4.5
MVFH	Little Salmon - Stinky Sp.	USRB		1/20/2015	34,294	217,000	4.5			4/21	30,000	4.5
Totals			1,885,153		1,613,180	1,550,000		136,900			1,580,000	
NSFH	Pahsimeroi Weir	PahA	1,204,836	1/13/2015	826,633	800,000	4.5	42,918	Salmon Falls reservoir 9/15/14	4/15	820,000	4.5
NSFH	Little Salmon R. - Stinky Sp.	PahA		1/13/2015	259,371	200,000	4.5			4/23	250,000	4.5
NSFH	Little Salmon R. - Stinky Sp.	OxbA	875,755	1/13/2015	212,133	250,000	4.5	35,484	Oakley Reservoir 9/16/14	4/29	210,000	4.5
NSFH	Snake R. Hells Canyon	OxbA		1/13/2015	575,438	550,000	4.5			3/23	570,000	4.5
Totals			2,080,591		1,873,575	1,800,000		78,402			1,850,000	
Grand Total			5,650,587		5,023,712	4,910,000		215,302			4,966,802	

Table 1.2b. BY 2014 Steelhead Inventory to Date by Mark Type in 2015

Hatchery	Release Site	Stock	Inventory to Date						PIT Tags					
			Date	Total	Adipose Fin Clip		No Clip		Total # Tags ¹	Funding Source ²				
					No CWT	CWT	CWT	No CWT		CSS	LSRCP	IPC	USFWS	
HNFH	Sawtooth Weir	SawA	1/14/2015	1,254,090	1,163,493	90,597				17,400	2,600	6,000		8,800
HNFH	Sawtooth Weir (RAS Eval)	SawA	1/14/2015	92,412		92,412				8,700				8,700
HNFH	Salmon R. - McNabb Pt.	SawA	1/14/2015	128,971	128,971					-				
HNFH	E. Fork Salmon R. - Upper	EFNat	1/14/2015	61,484				61,484		8,597	2,600	6,000		
Totals				1,536,957	1,292,464	183,009	61,484	-	34,697	5,200	12,000	0	17,500	
MVFH	Salmon R. - Colston Corner	PahA	1/20/2015	192,588	192,588					1,895	1,900			
MVFH	Salmon R. - Shoup Br.	PahA	1/20/2015	160,502	160,502					1,900	1,900			
MVFH	Salmon R. - Red Rock	PahA	1/20/2015	160,352	160,352					1,900	1,900			
MVFH	Little Salmon R. - Stinky Sp.	PahA	1/20/2015	383,059	383,059					2,199	2,200			
MVFH	Pahsimeroi Weir	DworB	1/20/2015	96,347				96,347		5,695	1,700	4,000		
MVFH	Pahsimeroi Weir	USRB	1/21/2015	96,177				96,177		5,695	1,700	4,000		
MVFH	Yankee Fork	DworB	1/20/2015	192,861	126,059			66,802		5,144	5,200			
MVFH	Yankee Fork	USRB	1/20/2015	294,000	130,064			163,936		8,088		8,100		
MVFH	Little Salmon - Stinky Sp.	USRB	1/20/2015	34,294	34,294					2,199	2,200			
Totals				1,610,180	1,186,918	-	192,524	230,738	34,715	18,700	16,100	0	0	
NSFH	Pahsimeroi Weir	PahA	1/13/2015	826,633	826,633					9,000	3,000		6,000	
NSFH	Little Salmon R. - Stinky Sp.	PahA	1/13/2015	259,371	259,371					2,600	2,050		500	
NSFH	Little Salmon R. - Stinky Sp.	OxbA	1/13/2015	212,133	212,133					2,500	2,050		500	
NSFH	Snake R. Hells Canyon	OxbA	1/13/2015	575,438	575,438					8,600	2,600		6,000	
Totals				1,873,575	1,873,575	-	-	-	22,700	9,700	0	13,000	0	
Grand Total				5,020,712	4,352,957	183,009	254,008	230,738	92,112	33,600	28,100	13,000	17,500	

¹ Represents actual number tagged if tags have already been applied at the time of this report

² Represents number of tags paid for by each agency. Sum total may not equal "Total # Tags" for locations where tagging has already occurred

Table 1.2c. Steelhead BY 2015 Egg box transfers in 2015

Hatchery	Release Site	Stock	Egg Box Outplants
			Goal
Pahsimeroi	Yankee Fork	USRB/DworB ¹	500,000
	Beaver Creek	PahA	400,000
	Indian Creek	PahA	100,000
	Total		1,000,000

¹ If smolt releases for Yankee Fork and Pahsimeroi are met and egg box needs cannot be met with USRB eggs, then DworB eggs will be considered for the SBT egg box program if available

1.2.2. Releases in 2015 (Smolt BY 2014, Egg Box BY 2015) - 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.

	Plan for 2015		Changes/Conditions that Occurred 2014-Early 2015		
Location	Release Target Smolt BY14, Egg BY15	Transport/Release Smolt BY14, Egg BY15	Fish Feeding BY14	Fish/Egg Health BY14	Marking BY14
<i>Niagara Springs Fish Hatchery (SOP Section 1.2)</i>					
Pahsimeroi Weir (PahA)	NC	NC	Feeding Skretting bulk food to 2 raceways to evaluate delivery/ordering logistics	Treated for Motile <i>Aeromonas</i> Septicemia in Sep with OTC medicated feed.	
L. Salmon R. Stinky Springs (PahA)	250,000 PahA smolts released instead of 200,000 PahA due to not enough OxbA fish available at clipping. 200,000 OxbA will be released at Stinky Springs	NC	NC	Treated for Motile <i>Aeromonas</i> Septicemia in Sep with OTC medicated feed.	2,600 Pit tags in Pah fish 2,500 Pit tags in Oxbow fish
Snake R. Hells Canyon (OxbA)	NC	NC	Feeding Skretting bulk food to 2 raceways to evaluate delivery/ordering logistics	Treated for Motile <i>Aeromonas</i> Septicemia in Sep with OTC medicated feed. Treated one raceway (~100,000 fish) with aquaflor medicated feed due to a concomitant coldwater / IHN infection in Nov.	

Location	Plan for 2015		Changes/Conditions that Occurred 2014-Early 2015		
	Release Target Smolt BY14, Egg BY15	Transport/Release Smolt BY14, Egg BY15	Fish Feeding BY14	Fish/Egg Health BY14	Marking BY14
<i>Pahsimeroi Fish Hatchery (Egg transfers to SBT - BY 2015) (SOP Sections 1.4 and 1.10)</i>					
Yankee Fork (USRB)	NC	NC			
Indian Creek (PahA)	NC	NC			
Panther Creek (PahA)	NC	NC			
<i>Hagerman National Fish Hatchery (SOP Section 1.5)</i>					
East Fork Weir (EFnat)	NC	NC	NC	Treated for <i>Ichthyophthirius multifiliis</i> (Ich) from Sept-Dec with formalin	
Sawtooth Weir (SawA)	Increased smolt release target by 90,000 fish for RAS production. The RAS is a new 3-circular tank rearing system that will be intensively monitored for the next few years through a paired test with fish reared in conventional raceways.	Due to detection of Ich in Steelhead rwys, one pump will stay "clean" and load the RAS fish immediately following McNabb Pt. release.	NC	Treated for <i>Ichthyophthirius multifiliis</i> (Ich) from Sept-Dec with formalin	
Salmon R. McNabb Point (SawA)	NC	NC	NC	Treated for <i>Ichthyophthirius multifiliis</i> (Ich) from Sept-Dec with formalin	
<i>Magic Valley Fish Hatchery (SOP Section 1.6)</i>					
Salmon R. Colston Corner (PahA)	Increased smolt release target by 100,000 fish due to lower DWORB egg survival.	NC	Feeding Skretting bulk 1/8" to avoid feed rejection issues.	NC	

Location	Plan for 2015		Changes/Conditions that Occurred 2014-Early 2015		
	Release Target Smolt BY14, Egg BY15	Transport/Release Smolt BY14, Egg BY15	Fish Feeding BY14	Fish/Egg Health BY14	Marking BY14
Salmon R. Shoup Br. (PahA)	Increased smolt release target by 70,000 fish due to lower DWORB egg survival.	NC	Feeding Skretting bulk 1/8" to avoid feed rejection issues.	NC	
Salmon R. Red Rock (PahA)	Increased smolt release target by 70,000 fish due to lower DWORB egg survival.	NC	Feeding Skretting bulk 1/8" to avoid feed rejection issues.	NC	
L. Salmon R. Stinky Springs (PahA)	Increased smolt release target by 160,000 fish due to lower DWORB egg survival.	NC	Feeding Skretting bulk 1/8" to avoid feed rejection issues.	NC	
Pahsimeroi Weir (DworB)	NC	NC	Feeding Skretting bulk 1/8" to avoid feed rejection issues.	NC	
Yankee Fork (USRB)	NC	NC	Feeding Skretting bulk 1/8" to avoid feed rejection issues.	NC	
Squaw Cr. (USRB)	No release in Squaw Creek due to lower USRB return.	NC	Feeding Skretting bulk 1/8" to avoid feed rejection issues.	NC	
L. Salmon R. Stinky Springs (USRB)	Decreased smolt release target by 190,000 fish due to lower USRB returns.	NC	Feeding Skretting bulk 1/8" to avoid feed rejection issues.	NC	

1.3. Trap Operations and Production Planning for 2015 (Smolt BY 2015, Egg Box BY 2015)

1.3.1. Trap Operations and Production Planning for 2015 (Smolt BY 2015, Egg Box BY 2015) – TOTALS

Table 1.3a. Steelhead Spawning for 2015

Trap Site	Egg Destination	Stock	Trapping period	Projected Return	Broodstock Trapping Required ¹			Fecundity	Number Needed to Spawn	
					LWG	Female	Male		Total	Females
Dworshak National Fish Hatchery	Magic Valley Fish Hatchery	DworB ³		8,321	43			6541	43	
Pahsimeroi Weir	Niagara Springs Fish Hatchery	PahA		8,743	292	292	584	4800	292	292
	Magic Valley Fish Hatchery	PahA		8,743	133	133	266	4800	133	133
	SBT Egg Box	USRB/DworB ⁴		878	94	94	188	6200	94	94
	SBT Egg Box	USRB/DworB ⁴		878						
	Magic Valley Fish Hatchery	USRB ³		878	225	225	450	6200	225	225
Hells Canyon Trap (Oxbow Hatchery)	Niagara Springs Fish Hatchery	OxbA	Oct 27-Nov 26, 2014 projected April 7, 2015	8,415	375	375	750	5500	193	193
Sawtooth and East Fork Weir ²	Hagerman National Fish Hatchery	SawA	March 23-May 1	10,608	375	375	750	5000	375	375
	Hagerman National Fish Hatchery	EFNat	March 25-May 20	1,805	16	16	32	5500	16	16

¹ Broodstock trapping need is dictated by number of females needed

² Target number for spawning is for natural origin fish but depending on run strength hatchery origin fish may be included.

³ Projected return to trap is for 2 ocean returns

⁴ If smolt releases for Yankee Fork and Pahsimeroi are met and egg box needs cannot be met with USRB eggs, then DworB eggs will be considered for the SBT egg box program if available

Table 1.3b. Steelhead Projected BY 2015 Smolt Production Goals for Release in 2016

Hatchery	Release Site	Stock	Smolt Release Goals
HNFH	Sawtooth Weir	SawA	1,280,000
	Sawtooth Weir (RAS Eval)	SawA	90,000
	Salmon R. - McNabb Pt.	SawA	130,000
	E. Fork Salmon R. - Upper	EFNat	60,000
Total			1,560,000
MVFH	Salmon R. - Colston Corner	PahA	93,000
	Salmon R. - Shoup Br.	PahA	93,000
	Salmon R. - Red Rock	PahA	93,000
	Little Salmon R. - Stinky Sp.	PahA	186,000
	Pahsimeroi Weir	USRB	93,000
	Pahsimeroi Weir	DworB	93,000
	Yankee Fork	USRB/DworB	496,000
	Squaw Creek	USRB/DworB	186,000
Little Salmon - Stinky Sp.	USRB	217,000	
Total			1,550,000
NSFH	Pahsimeroi Weir	PahA	800,000
	Little Salmon R. - Stinky Sp.	PahA	200,000
	Little Salmon R. - Stinky Sp.	OxbA	250,000
	Snake R. Hells Canyon	OxbA	550,000
Total			1,800,000
Grand Total			4,910,000

1.3.2. Trap Operations and Production Planning for 2015 (Smolt BY 2105, Egg Box BY 2015) – 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 2015 (BY 2015)					
Location	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults
<i>Hells Canyon Trap/Oxbow Hatchery (Fall 2014-Spring 2015) (SOP Section 1.3)</i>					
Niagara Springs (OxbA)	NC	NC	NC	NC	NC
<i>Pahsimeroi Weir (SOP Section 1.4)</i>					
Niagara Springs (PahA)	NC	NC	NC	NC	NC
Magic Valley (PahA)	NC	NC	Decreased eyed egg request to 548,000.	Decreased the number of females to be spawned to 133.	NC
SBT Egg Box (PahA)	NC	NC	NC	Green eggs transferred to Sawtooth for eye up.	NC
SBT Egg Box (USRB)	NC	NC	NC	Need 94 pairs of two ocean USRB adults to meet the 500K eyed egg goal. Green eggs transferred to Sawtooth for eye up.	NC
Magic Valley (USRB)	NC	NC	NC	225 pairs to meet their request. Green eggs will be eyed up at Pahsimeroi.	NC
<i>Sawtooth and East Fork Weir (SOP Sections 1.7 and 1.8)</i>					
Hagerman National (EFNat)	NC	Increase number of females to spawn from 14 to 16 due to fecundity of last five brood years.	NC	NC	NC

Hagerman National (SawA)	NC	NC	HNFH increased request by 40K, target female spawn number increased to 375.	NC	NC
<i>Dworshak National Fish Hatchery Ladder (Fall 2014-Spring 2015) (SOP Section 1.9)</i>					
Magic Valley (DworB)			281,263 green eggs incubated at CFH before transfer to MVFH	43 females to be spawned	

1.4. Marking and Rearing Plan for 2015 (Smolt BY 2105)

1.4.1. Marking and Rearing Plan for 2015 (Smolt BY 2015) – TOTALS

Table 1.4a. Steelhead Projected marking for BY 2015 Production

Hatchery	Release Site	Stock	Smolt Release Goals	Projected Marking				Total # Tags	PIT Tags			
				Adipose Fin Clip		No Clip			Funding Source			
				No CWT	CWT	CWT	No CWT		CSS	LSRCP	IPC	USFWS
HNFH	Sawtooth Weir	SawA	1,280,000	1,190,000	180,000			17,400	2,600	6,000		8,800
	Sawtooth Weir (RAS Eval)	SawA	90,000					8,700				8,700
	Salmon R. - McNabb Pt.	SawA	130,000	130,000				-				
	E. Fork Salmon R. - Upper	EFNat	60,000			60,000		8,600	2,600	6,000		
Totals			1,560,000	1,320,000	180,000	60,000	-	34,700	5,200	12,000	0	17,500
MVFH	Salmon R. - Colston Corner	PahA	93,000	93,000				1,900	1,900			
	Salmon R. - Shoup Br.	PahA	93,000	93,000				1,900	1,900			
	Salmon R. - Red Rock	PahA	93,000	93,000				1,900	1,900			
	Little Salmon R. - Stinky Sp.	PahA	186,000	186,000				2,200	2,200			
	Pahsimeroi Weir	USRB	93,000			93,000		5,700	1,700	4,000		
	Pahsimeroi Weir	DworB	93,000			93,000		5,700	1,700	4,000		
	Yankee Fork	USRB/DworB	496,000	279,000			217,000	13,300	5,200	8,100		
	Squaw Creek	USRB/DworB	186,000	186,000				-				
Little Salmon - Stinky Sp.	USRB	217,000	217,000				2,200	2,200				
Totals			1,550,000	1,147,000	-	186,000	217,000	34,800	18,700	16,100	0	0
NSFH	Pahsimeroi Weir	PahA	800,000	800,000				9,000	3,000		6,000	
	Little Salmon R. - Stinky Sp.	PahA	200,000	200,000				2,600	2,100		500	
	Little Salmon R. - Stinky Sp.	OxbA	250,000	250,000				2,500	2,000		500	
	Snake R. Hells Canyon	OxbA	550,000	550,000				8,600	2,600		6,000	
Totals			1,800,000	1,800,000	-	-	-	22,700	9,700	0	13,000	0
Grand Totals			4,910,000	4,267,000	180,000	246,000	217,000	92,200	33,600	28,100	13,000	17,500

1.4.2. Marking and Rearing Plan for 2015 (Smolt BY 2015) – NARRATIVE

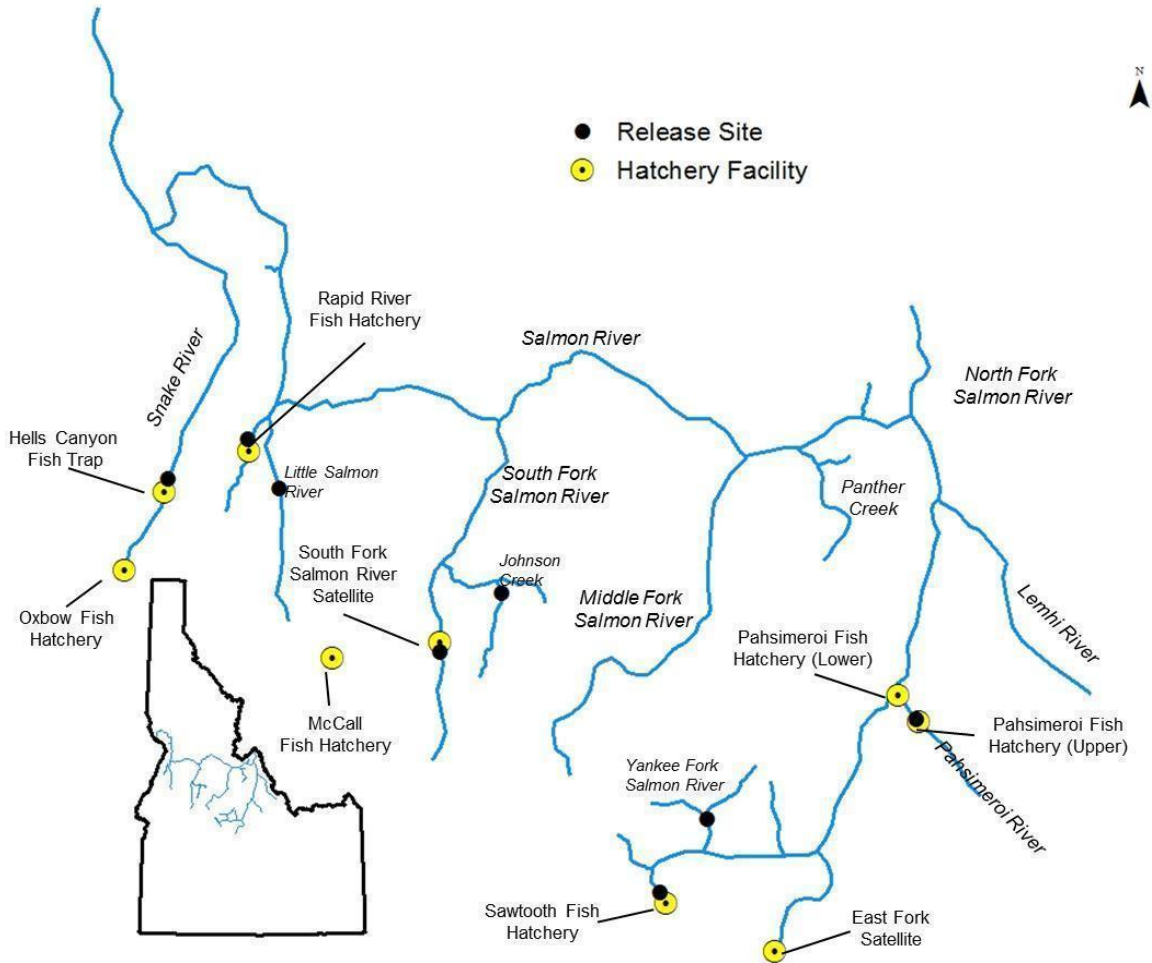
Here are examples of things managers were instructed to discuss for each release group, if there are departures from the norm (i.e., SOP). If no departure from the norm, enter NC for “No Change”.

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

Plan for 2015 (BY 2015)				
Location	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking
<i>Niagara Springs Fish Hatchery (SOP Section 1.2)</i>				
L. Salmon R. Stinky Springs (OxbA)	Probably won't be vaccinating BY15 fish for Furunculosis	Depending on BY14 test results, may feed Skretting feed to BY 15 fish.	NC	NC
Snake R. Hells Canyon (OxbA)	Probably won't be vaccinating BY15 fish for Furunculosis	Won't be doing Skretting feed test. May feed Skretting feed to BY 15 fish.	NC	NC
L. Salmon R. Stinky Springs (PahA)	N/C Probably won't be vaccinating BY15 fish for Furunculosis	May feed Skretting feed to BY 15 fish.	NC	NC
Pahsimeroi Weir (PahA)	N/C Probably won't be vaccinating BY15 fish for Furunculosis	Won't be doing Skretting feed test. May feed Skretting feed to BY 15 fish.	NC	NC
<i>Hagerman National Fish Hatchery (SOP Section 1.5)</i>				
East Fork Weir (EFnat)	Will do Ich inspections soon after ponding in outside rwys.	NC	NC	Pumping fish to marking trailers.
Sawtooth Weir (SawA)	Will do Ich inspections soon after ponding in outside rwys.	NC	NC	Pumping fish to marking trailers. Continue with 100% CWT and some PITs in RAS and control group to evaluate.
Salmon R. McNabb Point (SawA)	Will do Ich inspections soon after ponding in outside rwys.	NC	NC	Pumping fish to marking trailers.

Plan for 2015 (BY 2015)				
Location	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking
<i>Magic Valley Fish Hatchery (SOP Section 1.6)</i>				
Salmon R. Colston Corner (PahA)	NC	NC	NC	New movement method for marking, see SOP 1.6.2
Salmon R. Shoup Br. (PahA)	NC	NC	NC	New movement method for marking, see SOP 1.6.2
Salmon R. Red Rock (PahA)	NC	NC	NC	New movement method for marking, see SOP 1.6.2
L. Salmon R. Stinky Springs (PahA)	NC	NC	NC	New movement method for marking, see SOP 1.6.2
Pahsimeroi Weir (USRB)	NC	NC	NC	New movement method for marking, see SOP 1.6.2
Pahsimeroi Weir (DworB)	NC	NC	NC	New movement method for marking, see SOP 1.6.2
Yankee Fork Salmon R., Lower (USRB/DworB)	NC	NC	NC	New movement method for marking, see SOP 1.6.2
Salmon R. Stinky Springs (USRB/DworB)	NC	NC	NC	Only USB are being planted, due to low DWORB egg survival.
Squaw Cr. (USRB/DworB)	NC	NC	NC	No planting at this site due to low DWORB egg survival / low USRB returns. Consider evaluation of adult returns before decision.

2. Spring/Summer Chinook



Release Program	Release Site	Rearing Facility	Parent Stock	2015 Smolt Release Goal
IPC / IDFG	Rapid River Hatchery	RRFH	RapidR	2,500,000
	Little Salmon		RapidR	150,000
	Hells Canyon		RapidR	350,000
Total				3,000,000
LSRCP / IDFG	Sawtooth Weir - Integrated	SFH	USRInt	200,000
	Sawtooth Weir - Segregated		USRSeg	1,400,000
	Yankee Fork		USRSeg	200,000
Total				1,800,000
IPC / IDFG	Pahsimeroi Weir - Integrated	PFH	PahInt	200,000
	Pahsimeroi Weir - Segregated		PahSeg	800,000
Total				1,000,000
LSRCP / IDFG	SFSR Knox Br. - Integrated	McFH	SFSRInt	250,000
	SFSR Knox Br. - Segregated		SFSRSeg	750,000
NPT	Johnson Creek		Johnson Cr.	100,000
Total				1,100,000
Grand Total				6,900,000

Program	Location	Hatchery Egg Source	Parent Stock	Green Egg Target	Eyed Egg 2015 Release
SBT Egg Box	Dollar Creek	McFH	SFSR Seg.	351,000	300,000
Clearwater Su Chinook ¹	Powell Ponds	McFH/CFH	SFSR Seg.	600,000	600,000
SBT Eggbox ¹	Panther Creek	PFH	PahSeg	936,000	800,000

¹ Brood for these eggs are not included in stated brood goals and will come from fish trapped in excess of brood needs for onsite smolt and egg box programs. Prioritization of excess fish between recycling to fisheries, Tribal C&S, foodbank, outplants and the Clearwater Hatchery Summer Run Program will occur in-season between State and Tribal managers.

Figure 2.1. Spring/Summer Chinook salmon hatchery facilities and smolt release locations. Table gives 2015 smolt release goals by release site.

2.1. Timeline for Spring/Summer Chinook Production

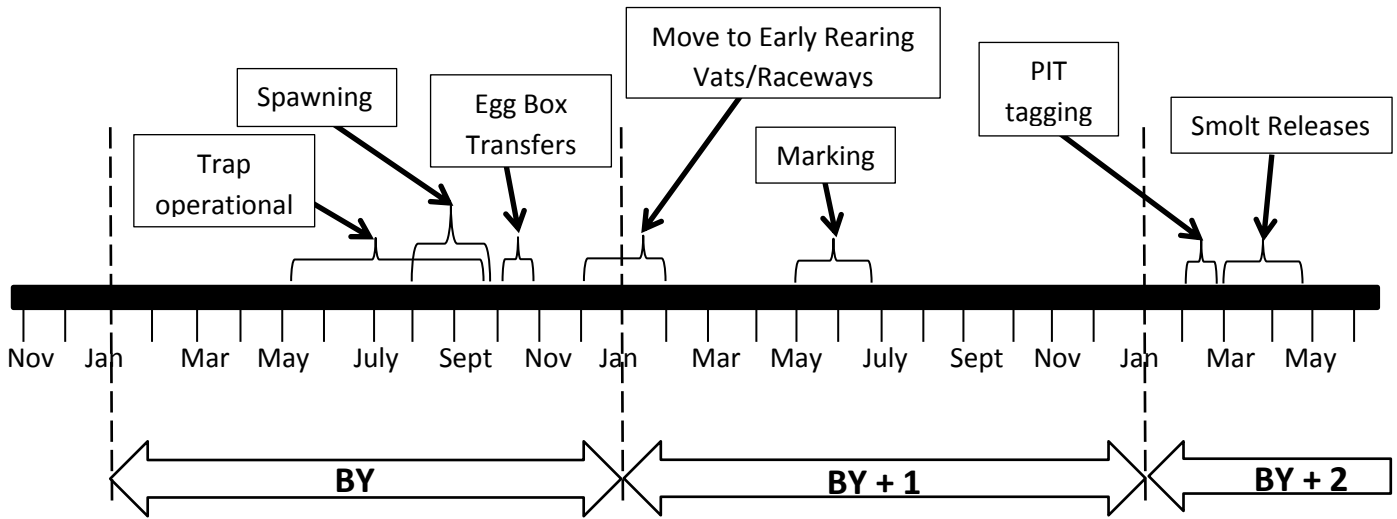


Figure 2.2. Timeline for Spring/Summer Chinook Production. Date ranges are shown to include all facilities' operations.

2.2. Releases in 2015 (Smolt BY 2013, Egg Box BY 2015)

2.2.1. Releases in 2015 (Smolt BY 2013, Egg Box BY 2015) – Totals

Table 2.2a. Sp/Su Chinook Salmon Rearing Metrics for BY 2013 fish

Hatchery	Release Site	Stock	Eyed Eggs to Rear ¹	Inventory To Date		Release Goals		Projected Smolt Release		
				Date	Number	Number	Size (FPP)	Dates	Number	Size (FPP)
RRFH ²	Rapid River Hatchery	RapidR	3,095,184	2/3/2015	2,908,264	2,500,000	20.0	3/16	2,500,000	19.9
	Little Salmon	RapidR				150,000	20.0	3/20	100,000	19.8
	Hells Canyon	RapidR				350,000	20.0	3/16	300,000	19.0
Total			3,095,184		2,908,264	3,000,000			2,900,000	
SFH	Sawtooth Weir - Integrated ³	USRInt	204,385	1/2/2015	198,239	200,000	15.0	4/3	198,000	17.0
	Sawtooth Weir - Segregated ³	USRSeg	1,803,216	1/2/2015	1,350,143	1,400,000	15.0	4/3	1,350,000	17.0
	Yankee Fork	USRSeg		1/2/2015	183,949	200,000	15.0	4/15	183,800	17.0
Total			2,007,601		1,732,331	1,800,000			1,731,800	
PFH	Pahsimeroi Weir - Integrated ³	PahInt	174,076	1/2/2015	199,559	200,000	15.0	4/1/2015	199,450	15.0
	Pahsimeroi Weir - Segregated ³	PahSeg	684,650	1/2/2015	630,118	800,000	15.0	4/1/2015	630,000	15.0
Total			858,726		829,677	1,000,000			829,450	
McFH	SFSR Knox Br. - Integrated ³	SFSRInt	260,078	1/2/2015	255,049	250,000	20.5	4/1-4/4	254,900	19.0
	SFSR Knox Br. - Segregated ³	SFSRSeg	890,935	1/2/2015	868,555	750,000	20.5	4/1-4/4	868,400	19.0
	Johnson Creek	JohnCr	121,490	1/2/2015	118,207	100,000	26.9	3/30-3/31	118,100	25.0
Total			1,272,503		1,241,811	1,100,000			1,241,400	
Grand Total			7,234,014		6,712,083	6,900,000			6,702,650	

¹ Eyed Eggs to Rear = (Total Green Eggs) - (Eggs culled for disease) - (Dead eggs picked) - (Eggs culled for hatchery capacity) - (Eggs transferred out)

² Rapid River eyed eggs and inventory are not partitioned by release site prior to release

³ Integrated/Segregated goals were changed in 2015; goals for BY13 are before the change

Table 2.2b. BY 2013 Sp/Su Chinook Salmon Inventory to Date by Mark Type in 2015

Hatchery	Release Site	Stock	Inventory to Date						PIT Tags					
			Date	Total	Adipose Fin Clip		No Clip		Total # Tags	Funding Source				
					No CWT	CWT	CWT	No CWT		CSS	LSRCP	IPC	BPA	
RRFH	Rapid River Hatchery	RapidR	2/2/2015	2,900,000	2,779,371	120,629	-	-	-	52,000	32,000		20,000	
	Little Salmon	RapidR	2/2/2015			-	-	-	-	-				
	Hells Canyon	RapidR	2/2/2015			-	-	-	-	-				
Totals				2,900,000	2,779,371	120,629	-	-	52,000	32,000	0	20,000	0	
SFH	Sawtooth Weir - Integrated	USRIInt	1/2/2015	198,239	-	-	198,239	-	1,000		1,000			
	Sawtooth Weir - Segregated	USRSeg	1/2/2015	1,350,143	1,231,026	119,117	-	-	18,900	5,700	13,200			
	Yankee Fork	USRSeg	1/2/2015	183,949		183,949	-	-	2,500	700	1,800			
Totals				1,732,331	1,231,026	303,066	198,239	-	22,400	6,400	16,000	0	0	
Pah	Pahsimeroi Weir - Integrated	PahInt	1/2/2015	199,559	-	-	199,559	-	1,000			1,000		
	Pahsimeroi Weir - Segregated	PahSeg	1/2/2015	630,118	530,503	99,615	-	-	21,400	6,400		15,000		
Totals				829,677	530,503	99,615	199,559	-	22,400	6,400	0	16,000	0	
McFH	SFSR Knox Br. - Integrated	SFSRIInt	1/2/2015	255,049	-	-	255,049	-	26,000		26,000			
	SFSR Knox Br. - Segregated	SFSRSeg	1/2/2015	868,555	747,880	120,675	-	-	26,000	6,000	20,000			
	Johnson Creek	JohnCr	1/2/2015	118,207	-	-	118,207	-	2,100				2,100	
Totals				1,241,811	747,880	120,675	373,256	-	54,100	32,000	20,000	0	2,100	
Grand Total				6,703,819	5,288,780	643,985	771,054	-	150,900	76,800	36,000	36,000	2,100	

Table 2.2c. Sp/Su Chinook salmon BY 2015 egg transfers to streamside egg boxes in 2015

Program	Location	Hatchery Egg Source	Parent Stock	Green Egg Target	Eyed Egg 2015 Release Goal
SBT Egg Box	Dollar Creek	McFH	SFSR Seg.	351,000	300,000
SBT Egg Box ¹	Panther Creek	PFH	PahSeg	926,000	800,000

¹ Brood for the requested 926,000 green eggs are not included in stated brood goals and will come from fish trapped in excess of brood needs for onsite smolt and egg box programs. Prioritization of excess fish between recycling to fisheries, Tribal C&S, foodbank, outplants and green eggs for the Clearwater Hatchery Summer Run Program will occur in-season between State and Tribal managers.

2.2.2. Releases in 2015 (Smolt BY 2013, Egg Box BY 2015) – 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.

Location	Plan for 2015		Changes/Conditions that Occurred 2014-Early 2015		
	Release Target Smolt BY13, Egg BY15	Transport/Release Smolt BY13, Egg BY15	Fish Feeding BY13	Fish/Egg Health BY13	Marking BY13
<i>Rapid River Fish Hatchery (SOP Section 2.2)</i>					
Rapid River Hatchery (RapidR)	NC	NC		Elevated early rearing mortality (1.8%) due to water quality related mycosis. Survival from swim-up to release 97.9%	
Little Salmon R. (RapidR)	Release will be 100,000, 50,000 less than goal of 150,000	NC		Elevated early rearing mortality (1.8%) due to water quality related mycosis. Survival from swim-up to release 97.9%	
Hells Canyon (RapidR)	Release will be 300,000, 50,000 less than goal of 350,000	NC		Elevated early rearing mortality (1.8%) due to water quality related mycosis. Survival from swim-up to release 97.9%	
<i>McCall Fish Hatchery (SOP Sections 2.3, 2.4 and 2.9)</i>					
SFSR Knox Bridge (SFSRInt)	Release will exceed target by 5,000 fish.	First week of April		Don Larsen to sample 300 integrated smolts prior to release to evaluate precosity.	
SFSR Knox Bridge (SFSRSeg)	Release will exceed target by 110,000 fish.	First week of April		Don Larsen to sample 300 segregated smolts prior to release to evaluate precosity.	

Location	Plan for 2015		Changes/Conditions that Occurred 2014-Early 2015		
	Release Target Smolt BY13, Egg BY15	Transport/Release Smolt BY13, Egg BY15	Fish Feeding BY13	Fish/Egg Health BY13	Marking BY13
Johnson Cr. (JohnCr)	Release will be greater than target by about 18,000 fish.	Smolt releases to begin on or about March 30, 2015. May need to plow part of Johnson Creek road if County has not been maintaining road through winter.		NC	
Dollar Cr. (SFSRSeg)	NC	NC			
<i>Pahsimeroi Fish Hatchery (SOP Section 2.5)</i>					
Pahsimeroi Weir Integrated (PahInt)	Slightly below the goal of 200,000 (199,559).	Volitional release April 1 through April 16.		The fish broke with BKD in the summer of 2014 and were treated with Erythromycin. Treatment was effective.	
Pahsimeroi Weir Segregated (PahSeg)	Below the goal of 800K (630,118) due to low numbers of broodstock in 2013.	Volitional release April 1 through April 16.		The fish broke with BKD in the summer of 2014 and were treated with Erythromycin. Treatment was effective.	
<i>Sawtooth Fish Hatchery (SOP Sections 2.6 and 2.8)</i>					
Sawtooth Weir Integrated (USRInt)	NC	NC		BKD +, treated with target Erythromycin 100 mg/kg/day for 28 days. Treatment was successful. Don Larsen to sample 300 integrated smolts prior to release to evaluate precosity.	

Location	Plan for 2015		Changes/Conditions that Occurred 2014-Early 2015		
	Release Target Smolt BY13, Egg BY15	Transport/Release Smolt BY13, Egg BY15	Fish Feeding BY13	Fish/Egg Health BY13	Marking BY13
Sawtooth Weir Segregated (USRSeg)	Slightly below target of 1.4M (1,350,143) due to high mortality in small early rearing raceways	NC		Gill disease due to issues with degass tower for well #5. MAS/Columnaris treated with OTC 3.75 g/100lbs for 10 days. Treatment successful. Don Larsen to sample 300 segregated smolts prior to release to evaluate precosity.	
Yankee Fork (USRSeg)	NC	NC		BKD+, treated with Erythromycin 100 mg/kg/day for 28 days. Treatment was successful.	

2.3. Trap Operations and Production Planning for 2015 (Smolt BY 2015)

2.3.1. Trap Operations and Production Planning for 2015 (Smolt BY 2015) – TOTALS

Table 2.3a. Sp/Su Chinook Spawning for BY 2015

Hatchery	Release Site	Stock	Forecasted Adult Returns					Trapping period	Adult Broodstock Need					
			LWG			Trap ¹			M:F Ratio	Hatchery		Natural		Total
			HORseg	HORint	NOR	HORint	NOR			Female	Male	Female	Male	
RRFH	Rapid River Trap	RapidR	14,436					3/16-9/11	1:1	1000	1000	0	0	2000
	Little Salmon	RapidR	0											0
	Hells Canyon Trap	RapidR	2,217					5/15-7/15	1:1	200	200	0	0	400
	Totals		16,653	0	0	0	0			1,200	1,200	0	0	2,400
SFH	Sawtooth Weir - Integrated	USRInt		401	1702	341	1361	6/15-9/15	1:1	4	4	34	34	76
	Sawtooth Weir - Segregated	USRSeg	2,091					6/15-9/15	1:1	376	376			752
	Yankee Fork	USRSeg						6/15-9/15	1:1	52	52	0	0	104
	Totals		2,091	401	1,702	341	1361			432	432	34	34	932
PFH	Pahsimeroi - Integrated	PahInt		502	811	426	649	6/15-10/1	1:1	0	0	21	21	42
	Pahsimeroi - Segregated	PahSeg	2138					6/15-10/1	1:1	279	279	0	0	558
	SBT Egg Box - Panther Cr. ²	PahSeg								TBD	TBD			
	Totals		2,138	502	811	426	649			279	279	21	21	600
McFH	SFSR - Integrated	SFSRInt		2,603	3520	1,438	2060	6/15-9/15	1:1	6	5	46	47	104
	SFSR - Segregated	SFSRSeg	8,043					6/15-9/15	1:1	291	291	0	0	582
	SBT Egg Box - Dollar Cr.	SFSRSeg						6/15-9/15	1:1	97	97			
	Clearwater Su Chinook ²	SFSRSeg						6/15-9/15	1:1	TBD	TBD			
	Johnson Creek	JohnCr		363	808	316	703	6/15-9/15	1:1	0	0	40	40	80
Totals		8,043	2,966	4,328	1,754	2,763			394	393	86	87	766	
Grand Tot			28,925	3,869	6,841	2,521	4,773			2,305	2,304	141	142	4,698

¹ These trap projections are only for natural origin returns (NORs) and integrated hatchery origin fish (HORint)

² Brood for these eggs are not included in stated brood goals and will come from fish trapped in excess of brood needs for onsite smolt and egg box programs. Prioritization of excess fish between recycling to fisheries, Tribal C&S, foodbank, outplants and green egg needs for the Clearwater Hatchery Summer Run Program will occur in-season between State and Tribal managers.

Table 2.3b. BY 2015 Sp/Su Chinook Smolt Production Goals for Release in 2017

Hatchery	Release Site	Release Goals
RRFH	Rapid River Hatchery	2,500,000
	Little Salmon	150,000
	Hells Canyon	350,000
	Total	3,000,000
SFH	Sawtooth Weir - Integrated	150,000
	Sawtooth Weir - Segregated	1,450,000
	Yankee Fork	200,000
	Total	1,800,000
PFH	Pahsimeroi Weir - Integrated	65,000
	Pahsimeroi Weir - Segregated	935,000
	Total	1,000,000
McFH	SFSR Knox Br. - Integrated	150,000
	SFSR Knox Br. - Segregated	850,000
	Johnson Creek	100,000
	Total	1,100,000
Grand Total		6,900,000

Table 2.3c. Sp/Su Chinook Egg Transfers used for BY 2015 Smolt Production (Release in 2017)

Origin	Transfer Site	Stock	Green Egg Goal	Smolt Release Goal
McFH/CFH ¹	Clearwater Fish Hatchery	SFSR Seg/CFH	600,000	600,000

¹ Brood for these eggs are not included in stated brood goals and will come from fish trapped in excess of brood needs for onsite smolt and egg box programs. Prioritization of excess fish between recycling to fisheries, Tribal C&S, foodbank outplants and green egg needs for the Clearwater Hatchery Summer Run Program will occur in-season between State and Tribal managers.

2.3.2. Trap Operations and Production Planning for 2015 (Smolts BY 2015) – 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 2015 (BY 2015)				
Location	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults
<i>Rapid River Fish Hatchery (SOP Section 2.2)</i>					
Rapid River Hatchery (RapidR)	NC	NC	NC	NC	NC
Little Salmon R. (RapidR)	NC	NC	NC	NC	NC
Hells Canyon (RapidR)	NC	NC	NC	NC	NC
<i>McCall Fish Hatchery (SOP Sections 2.3 and 2.4)</i>					
Johnson Cr. (JohnCr)	NC	NC	NC	NC	NC
SFSR Trap Integrated (SFSRInt)	NC	NC	BY2015 integrated smolt decreased to 150,000	Implementing new sliding scales	Parties have agreed to discuss disposition priorities for excess SFSRInt returns. Discussions are ongoing and will be included in SOP/AOP as results are available. Settling pond at McFH has been identified as an alternative adult broodstock holding location in the event a catastrophic flooding event such as occurred in 2014.

Plan for 2015 (BY 2015)					
Location	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults
SFSR Trap Segregated (SFSRSeg)	NC	NC	BY2015 segregated smolt production increased to 850,000.	NC	Settling pond at McFH has been identified as an alternative adult broodstock holding location in the event of a catastrophic flooding event such as occurred in 2014.
Clearwater Fish Hatchery Egg Transfer Segregated (SFSRSeg/CFH)	NC	NC	Brood for these eggs are not included in stated brood goals and will come from fish trapped in excess of brood needs for onsite smolt and egg box programs. Prioritization of excess fish between recycling to fisheries, Tribal C&S, foodbank and outplants will occur in-season between State and Tribal managers.	NC	NC
<i>Pahsimeroi Fish Hatchery (SOP Section 2.5)</i>					
Pahsimeroi Weir Integrated (PahInt)	NC	NC	BY2015 integrated smolt decreased to 65,000	Implementing new sliding scales	NC
Pahsimeroi Weir Segregated (PahSeg)	NC	NC	BY2015 segregated smolt production increased to 935,000.	NC	NC

Plan for 2015 (BY 2015)					
Location	Adult Fish Health	Trap Ops	Production target changes	Spawning protocol changes	Disposition of adults
SBT Egg Box - Panther Creek (PahSeg)			Brood for these eggs are not included in stated brood goals and will come from fish trapped in excess of brood needs for onsite smolt and egg box programs. Prioritization of excess fish between recycling to fisheries, Tribal C&S, foodbank and outplants will occur in-season between State and Tribal managers.		
<i>Sawtooth Fish Hatchery (SOP Sections 2.6, 2.7 and 2.8)</i>					
East Fork Salmon River Weir (EFNat)	No trap operation in 2015	No trap operation in 2015	No trap operation in 2015	No trap operation in 2015	No trap operation in 2015
Sawtooth Weir Integrated (USRInt)	NC	Plan to replace finger weir with V notch weir to improve trap efficiency	BY2015 integrated smolt decreased to 150,000	Implementing new sliding scales. Bleed females	NC
Sawtooth Weir Segregated (USRSeg)	NC	Plan to replace finger weir with V notch weir to improve trap efficiency	BY2015 segregated smolt production increased to 1,450,000. Parties have agreed to revisit an increase in production to be reared in space formerly used by the Sockeye smolt program.	Bleed females	NC
Yankee Fork (USRSeg)	NC	Plan to replace finger weir with V notch weir to improve trap efficiency	NC	Bleed females	NC

2.4. Early Rearing and Marking Plan for 2015 (Smolt BY 2014)

2.4.1. Early Rearing and Marking Plan for 2015 (Smolt BY 2014) – TOTALS

Table 2.4a. BY 2014 Sp/Su Chinook Salmon - Early Rearing Inventory (including anticipated set out)

Hatchery	Stock	Likely Release Site	Early Rearing Vat or Raceway	Inventory to Date	
				Date	Total
RRFH	RapidR	Rapid River Hatchery or Little Salmon or Hells Canyon	RCWY 1 (outside)	2/2/2015	293,699
			RCWY 2 (outside)	2/2/2015	293,520
			RCWY 3 (outside)	2/2/2015	291,263
			RCWY 4 (outside)	2/2/2015	295,764
			RCWY 5 (outside)	2/2/2015	294,287
			RCWY 6 (outside)	2/2/2015	301,723
			RCWY 7 (outside)	2/2/2015	299,131
			RCWY 8 (outside)	2/2/2015	297,599
			RCWY 9 (outside)	2/2/2015	282,517
			RCWY 10 (outside)	2/2/2015	295,986
			RCWY 11 (outside)	2/2/2015	297,197
Totals					3,242,686
SFH	Saw Seg	Yankee Fork	Display Vat	1/2/2015	21,308
	Saw Seg	Yankee Fork	Vat 1	1/2/2015	57,254
	Saw Seg	Yankee Fork	Vat 2	1/2/2015	64,515
	Saw Seg	Yankee Fork	Vat 3	1/2/2015	58,962
	Saw INT	Sawtooth	Vat 4	1/2/2015	69,530
	Saw INT	Sawtooth	Vat 5	1/2/2015	64,286
	Saw INT	Sawtooth	Vat 6	1/2/2015	54,689
	Saw Seg	Sawtooth	Vat 7	1/2/2015	64,070
	Saw Seg	Sawtooth	Vat 8	1/2/2015	65,489
	Saw Seg	Sawtooth	Vat 9	1/2/2015	64,318
	Saw Seg	Sawtooth	Vat 10	1/2/2015	128,213
	Saw Seg	Sawtooth	Vat 11	1/2/2015	154,297
	Saw Seg	Sawtooth	Vat 12	1/2/2015	166,629
	Saw Seg	Sawtooth	Vat 13	1/2/2015	111,071
	Saw Seg	Sawtooth	Vat 14	1/2/2015	65,514
			Small RCWY 1 (outside)	1/2/2015	-
			Small RCWY 2 (outside)	1/2/2015	-
	Saw Seg	Sawtooth	Small RCWY 3 (outside)	1/2/2015	154,706
	Saw Seg	Sawtooth	Small RCWY 4 (outside)	1/2/2015	160,087
	Saw Seg	Sawtooth	Small RCWY 5 (outside)	1/2/2015	164,204
Saw Seg	Sawtooth	Small RCWY 6 (outside)	1/2/2015	166,274	
Totals					1,855,416
Pah	PFH Seg	Pahsimeroi River	Vat 1	2/1/2015	62,307
	PFH Seg	Pahsimeroi River	Vat 2	2/1/2015	64,970
	PFH Seg	Pahsimeroi River	Vat 3	2/1/2015	62,340
	PFH Seg	Pahsimeroi River	Vat 4	2/1/2015	62,463
	PFH Seg	Pahsimeroi River	Vat 5	2/1/2015	64,119
	PFH Seg	Pahsimeroi River	Vat 6	2/1/2015	56,932
	PFH Seg	Pahsimeroi River	Vat 7	2/1/2015	65,171
	PFH Seg	Pahsimeroi River	Vat 8	2/1/2015	65,287
	PFH Seg	Pahsimeroi River	Vat 9	2/1/2015	63,137
	PFH Seg	Pahsimeroi River	Vat 10	2/1/2015	61,925
	PFH Seg	Pahsimeroi River	Vat 11	2/1/2015	66,076
	PFH Seg	Pahsimeroi River	Vat 12	2/1/2015	65,150
	PFH Seg	Pahsimeroi River	Vat 13	2/1/2015	64,289
	PFH Seg	Pahsimeroi River	Vat 14	2/1/2015	67,685
	PFH Int	Pahsimeroi River	Vat 15	2/1/2015	64,138
	PFH int	Pahsimeroi River	Vat 16	2/1/2015	65,393
	PFH Int	Pahsimeroi River	Vat 17	2/1/2015	67,258
	PFH Int	Pahsimeroi River	Vat 18	2/1/2015	64,907
Totals					1,153,547
MFH	JC NPT	Johnson Cr	Vat 1	1/30/2015	64,400
	JC NPT	Johnson Cr	Vat 2	1/30/2015	58,000
	SFSR SEG	SFSR Knox Br	Vat 3	1/30/2015	96,400
	SFSR SEG	SFSR Knox Br	Vat 4	1/30/2015	91,000
	SFSR SEG	SFSR Knox Br	Vat 5	1/30/2015	85,800
	SFSR SEG	SFSR Knox Br	Vat 6	1/30/2015	94,300
	SFSR SEG	SFSR Knox Br	Vat 7	1/30/2015	90,900
	SFSR INT	SFSR Knox Br	Vat 8	1/30/2015	87,800
	SFSR INT	SFSR Knox Br	Vat 9	1/30/2015	85,000
	SFSR INT	SFSR Knox Br	Vat 10	1/30/2015	85,400
	SFSR SEG	SFSR Knox Br	Vat 11	1/30/2015	90,400
	SFSR SEG	SFSR Knox Br	Vat 12	1/30/2015	91,900
	SFSR SEG	SFSR Knox Br	Vat 13	1/30/2015	90,900
	SFSR SEG	SFSR Knox Br	Vat 14	1/30/2015	89,400

Table 2.4b. Sp/Su Chinook Projected Marking of BY 2014 fish in 2015

Hatchery	Release Site	Likely Marking Date(s)	Release Goals for 2016	Inventory to Date		Projected Marking				PIT Tags ¹				
						Adipose Fin Clip		No Clip		Total # Tags	Funding Source			
				Date	Number	No CWT	CWT	CWT	No CWT		CSS	LSRCP	IPC	BPA
RRFH	Rapid River Hatchery		2,500,000											
	Little Salmon		150,000	2/2/2015	3,242,686	2,880,000	120,000	-	-	52,000	32,000		20,000	
	Hells Canyon		350,000											
	Totals		3,000,000		3,242,686	2,880,000	120,000	-	-	52,000	32,000	0	20,000	0
SFH	Sawtooth Weir - Integrated ²	May 19-May 26	150,000	1/2/2015	188,505	38,505	-	150,000	-	1,000		1,000		
	Sawtooth Weir - Segregated	May 19-May 26	1,450,000	1/2/2015	1,464,872	1,350,000	110,000	-	-	18,900	5,700	13,200		
	Yankee Fork	May 19-May 26	200,000	1/2/2015	202,039	-	200,000	-	-	2,500	700	1,800		
	Totals		1,800,000		1,855,416	1,388,505	310,000	150,000	-	22,400	6,400	16,000	0	0
PFH	Pahsimeroi Weir - Integrated ²	May 11-May16	65,000	2/1/2015	261,696	196,696		65,000		1,000			1,000	
	Pahsimeroi Weir - Segregated	May 11-May16	935,000	2/1/2015	891,851	679,000	121,000			21,400	6,400		15,000	
	Totals		1,000,000		1,153,547	875,696	121,000	65,000	-	22,400	6,400	0	16,000	0
McFH	SFSR Knox Br. - Integrated ²		150,000	2/1/2015	258,200	108,200		150,000		26,000	26,000			
	SFSR Knox Br. - Segregated		850,000	2/1/2015	821,000	700,000	121,000			26,000	6,000	20,000		
	Johnson Creek		100,000	2/1/2015	122,400			120,000		2,100				2,100
	Totals		1,100,000		1,201,600	808,200	121,000	270,000	-	54,100	32,000	20,000	0	2,100
Grand Totals			6,900,000		7,453,249	5,952,401	672,000	485,000	-	150,900	76,800	36,000	36,000	2,100

¹ PIT Tagging occurs in spring 2016

² See AOP text (2.4.2. Early Rearing and Marking Plan section) for explanation of reduction in integrated program size and marking/release plan

Table 2.4c. Sliding scales for integrated Chinook Salmon program managment

McCall Hatchery											
Smolt Target		150,000									
Individuals needed (m+f)		104									
pNOB Target		0.9									
Preseason NOR Forecast		2060									
NOR Return to Weir	# of NORs Held	# of NORs Held		Retained for Brood	pHOS	pNOB		pHOS		PNI	
50	124	20	50	40%	0.99	0.19	0.48	0.94	0.86	0.17	0.36
125	424	50	93	40%	0.99	0.48	0.90	0.86	0.61	0.36	0.60
425	999	93	93	40%	0.45	0.90	0.90	0.45	0.36	0.67	0.71
1,000	1,499	93	93	20%	0.35	0.90	0.90	0.35	0.27	0.72	0.77
1,500	1,999	93	93	20%	0.35	0.90	0.90	0.27	0.21	0.77	0.81
2,000	3,000	93	93	20%	0.35	0.90	0.90	0.21	0.15	0.81	0.86
Sawtooth Hatchery											
Smolt Target		150,000									
Individuals needed (m+f)		76									
pNOB Target		0.9									
Preseason NOR Forecast		1361									
NOR Return to Weir	# of NORs Held	# of NORs Held		Retained for Brood	pHOS	pNOB		pHOS		PNI	
50	124	20	50	40%	0.99	0.26	0.65	0.93	0.85	0.22	0.43
125	349	50	68	40%	0.99	0.66	0.90	0.85	0.61	0.44	0.60
350	599	68	68	30%	0.45	0.90	0.90	0.45	0.45	0.67	0.67
600	999	68	68	20%	0.35	0.90	0.90	0.35	0.32	0.72	0.74
1,000	1,499	68	68	20%	0.35	0.90	0.90	0.32	0.24	0.74	0.79
1,500	1,999	68	68	20%	0.35	0.90	0.90	0.24	0.19	0.79	0.83
2,000	3,000	68	68	20%	0.35	0.90	0.90	0.19	0.13	0.83	0.87
Pahsimeroi Hatchery											
Smolt Target		65,000									
Individuals needed (m+f)		41									
pNOB Target		1									
Preseason NOR Forecast		649									
NOR Return to Weir	# of NORs Held	# of NORs Held		Max % of NORs Retained for Brood	Max. pHOS	pNOB		pHOS		PNI	
50	124	15	37	30%	0.25	0.37	0.91	0.83	0.69	0.31	0.57
125	249	38	41	30%	0.25	0.92	1.00	0.69	0.31	0.57	0.77
250	499	41	41	30%	0.25	1.00	1.00	0.30	0.25	0.77	0.80
500	999	41	41	20%	0.25	1.00	1.00	0.25	0.17	0.80	0.86
1,000	1,499	41	41	20%	0.25	1.00	1.00	0.17	0.12	0.86	0.89
1,500	1,999	41	41	20%	0.25	1.00	1.00	0.12	0.09	0.89	0.92
2,000	3,000	41	41	20%	0.25	1.00	1.00	0.09	0.06	0.92	0.94

2.4.2. Early Rearing and Marking Plan for 2015 (Smolt BY 2014) – 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.

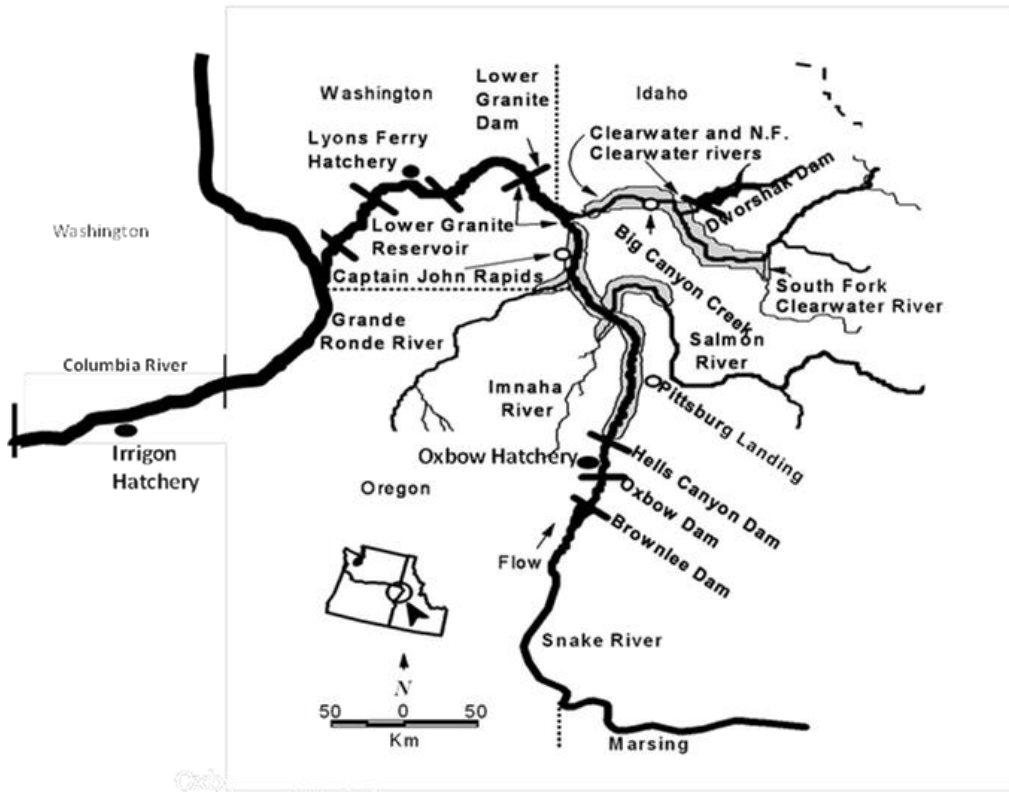
Plan for 2015 (BY 2014)					
Location	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking	Current Inventory
<i>Rapid River Fish Hatchery (SOP Section 2.2)</i>					
Rapid River Hatchery (RapidR)	NC	NC	NC	NC	NC
Little Salmon R. (RapidR)	NC	NC	NC	NC	NC
Hells Canyon (RapidR)	NC	NC	NC	NC	NC
<i>McCall Fish Hatchery (SOP Section 2.3 and 2.4)</i>					
Johnson Cr. (JohnCr)	NC	NC	NC	May CWT later in season to allow fish to be tagged as they are moved to outdoor rearing. This will be coordinated with IDFG McFH staff and marking crews.	NC

Plan for 2015 (BY 2014)					
Location	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking	Current Inventory
Knox Bridge Integrated (SFSRInt)	NC	NC	NC	Parties have agreed to a downsizing of the program to 150,000 CWT only SFSRInt releases. Balance of existing inventory will be released as AD clipped fish with segregated releases.	
Knox Bridge Segregated (SFSRSeg)	NC	NC	NC	NC	NC
<i>Pahsimeroi Fish Hatchery (SOP Section 2.5)</i>					
Pahsimeroi Ponds Integrated (PahInt)	NC	NC	NC	Parties have agreed to a downsizing of the program to 65,000 CWT only PahInt releases. Balance of existing inventory will be released as AD clipped fish with segregated releases.	261,696 - slightly higher than the release goal of 200K due to BKD issues the last 3 years.
Pahsimeroi Ponds Segregated (PahSeg)	NC	NC	NC	NC	891,851 - slightly higher than the release goal of 800K due to BKD issues the last 3 years.
<i>Sawtooth Fish Hatchery (SOP Sections 2.6 and 2.8)</i>					

Plan for 2015 (BY 2014)					
Location	Juvenile Fish Health	Fish Feeding	Rearing Conditions	Marking	Current Inventory
Sawtooth Weir Integrated (USRInt)	NC	NC	Temp synched to hatch in two groups.	Parties have agreed to a downsizing of the program to 150,000 CWT only USRInt releases. Balance of existing inventory will be released as AD clipped fish with segregated releases.	Current inventory 188,505 slightly lower than target of 200,000
Sawtooth Weir Segregated (USRSeg)	NC	NC	Early rearing study occurring now with ponding inside versus outside, shade covers and baffles. Degass tower repaired.	NC	NC
Yankee Fork (USRSeg)	NC	NC	Temp synched to hatch in two groups.	NC	NC

3. Fall Chinook

Hatchery operations



BY 2014 Fall Chinook Subyearling Release Goals in 2015

Hatchery	Release Site	Release Goals
Oxbow	Hells Canyon	NA
Irrigon	Hells Canyon	1,000,000

Figure 3.1. Fall Chinook Salmon hatchery facilities and smolt release locations. Table gives 2015 smolt release goals by release site

3.1. Releases in 2015 (Sub-Yearling BY 2014)

3.1.1. Releases in 2015 (Sub-Yearling BY 2014) – Totals

Table 3.1a. BY2014 Fall Chinook Sub-yearling Marking and Releases in 2015

Hatchery	Release Site	Likely Release Date	Release Goals	Projected Actual Releases					
				Total	Adipose Fin Clip		No Clip		PIT Tag
					No CWT	CWT	CWT	No CWT	
Oxbow	Hells Canyon		-	-					
Irrigon	Hells Canyon		1,000,000	1,000,000	800,000	200,000			3,000

3.1.2. Releases in 2015 (Sub-Yearling BY 2014) - Narrative

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

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

Location	Smolt Release Target	Fish Health	Transportation/Releases
<i>Oxbow Fish Hatchery (IDFG) (SOP Section 3.1)</i>			
Hells Canyon Dam Release	Historically, a portion of the goal (200,000) was reared at OFH and the remaining fish were reared at another facility. Due to changing programs and shifted priorities, OFH has not raised fall Chinook since 2012 (BY11 FC). There no plans for OFH to raise fall Chinook at least for the next three years.	NC	NC

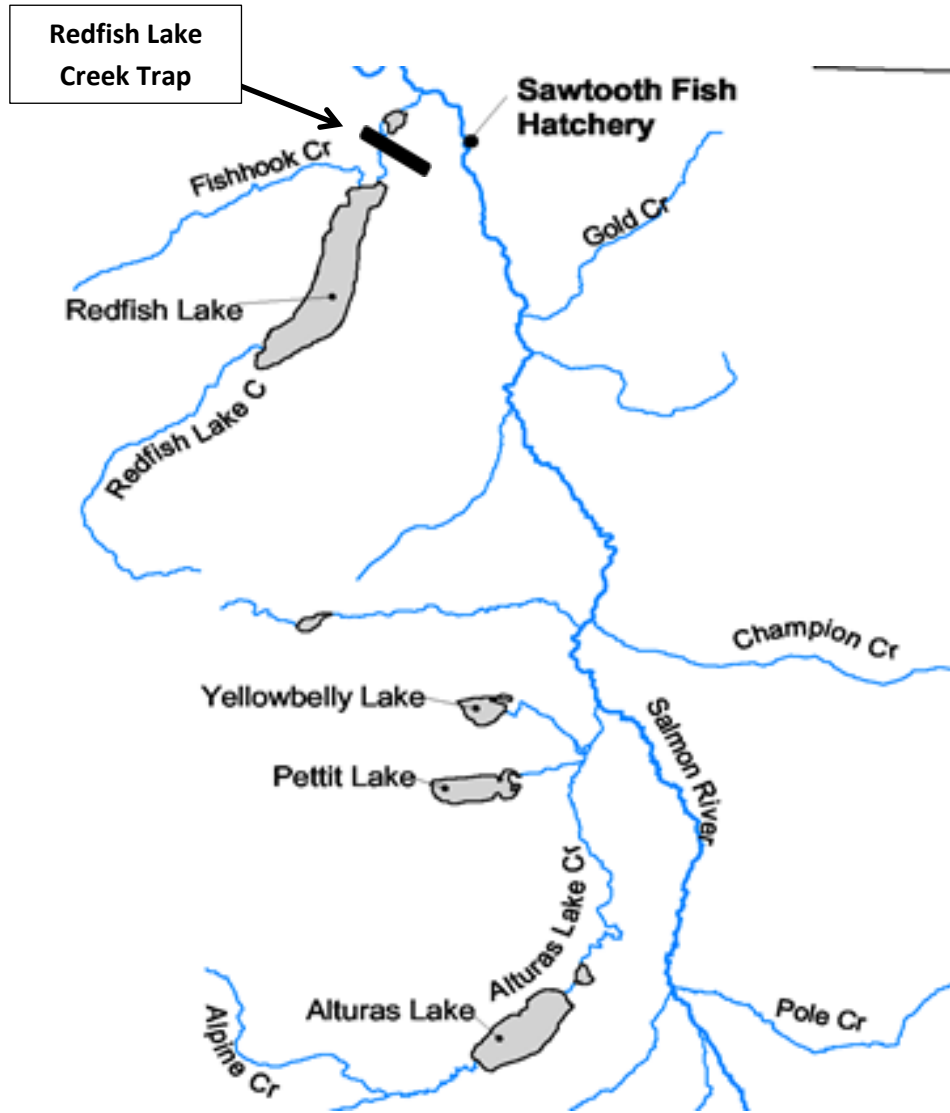
3.2. Trap Operations and Production Planning for 2015 (Sub-Yearling BY 2015)

Refer to Lyons Ferry AOP

3.3. Marking and Rearing Plan for 2015 (Sub-Yearling BY 2014)

Refer to Lyons Ferry AOP

4. Sockeye



Rearing Facility	Release Site	Parent Stock	2015 Smolt Release Goal (BY 2013)
Oxbow	Redfish Lake Cr.	Snake R.	100,000
Sawtooth	Redfish Lake Cr.	Snake R.	180,000
Springfield	Redfish Lake Cr.	Snake R.	200,000
Grand Total			480,000

Rearing Facility	Release Site	Parent Stock	Brood Year	2015 Captive-Reared Adult Release Goal
NOAA - Burley Creek	Redfish Lake	Snake R.	2010	10
	Redfish Lake	Snake R.	2011	90
	Redfish Lake	Snake R.	2012	150
Total				250
Eagle Fish Hatchery	Redfish Lake	Snake R.	2011	0
	Redfish Lake	Snake R.	2012	0
Total				0
Grand Total				250

Note: Release goal is for 250 adult sockeye to Redfish Lake. This can be made up of anadromous returns, Captive Broodstock from Eagle and Captive Broodstock from Burley Creek.

Figure 4.1. Sockeye Salmon traps, hatchery facilities, and smolt release locations. Table gives 2015 smolt release goals by release site.

4.1. Timeline for Sockeye Salmon Production

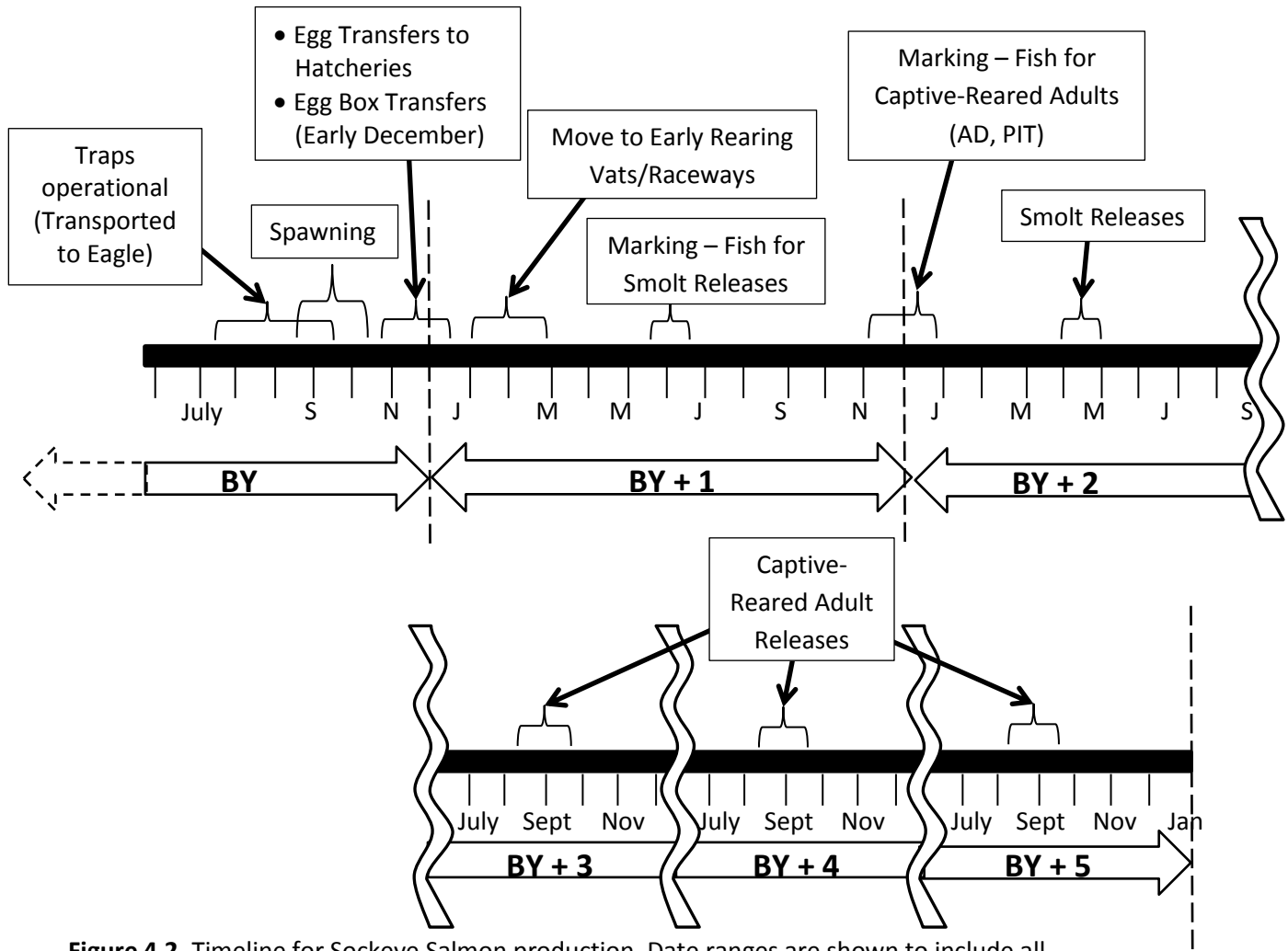


Figure 4.2. Timeline for Sockeye Salmon production. Date ranges are shown to include all facilities' operations.

4.2. Releases in 2015 (Smolt BY13, Captive Adult BY12, BY11, BY10)

4.2.1. Releases in 2015 (Smolt BY13, Captive Adult BY12, BY11, BY10) – Totals

Table 4.2a. Sockeye Captive-Reared Adult Releases in 2015

Hatchery	Brood year	Release Site	Stock	Likely Release Date	Release Goals	Projected Actual Releases					
						Total	Adipose Fin Clip		No Clip		PIT Tag
							No CWT	CWT	CWT	No CWT	
NOAA - Burley Creek	2010	Redfish Lake	Snake R.	9/16	10	10	10			10	
	2011	Redfish Lake	Snake R.	9/16	90	190	190			190	
	2012	Redfish Lake	Snake R.	9/16	150	400	400			400	
Total					250	600	600	0	0	600	
Eagle	2011	Redfish Lake	Snake R.	9/16	0	10	10			10	
	2012	Redfish Lake	Snake R.	9/16	0	140	140			140	
Total					0	150	150	0	0	150	
Grand Total					250	750	750	0	0	750	

Table 4.2b. BY 2013 Sockeye Smolt Releases in 2015

Hatchery	Release Site	Stock	Likely Release Date	Release Goals	Projected Actual Releases					PIT Tags		
					Total	Adipose Fin Clip		No Clip		Total # Tags	Funding Source	
						No CWT	CWT	CWT	No CWT		CSS	BPA
Oxbow	Redfish Lake Cr.	Snake R.	5/7	100,000	76,000	76,000				2,000		2,000
Sawtooth	Redfish Lake Cr.	Snake R.	5/7	180,000	134,000	134,000				50,000	39,800	10,200
Springfield	Redfish Lake Cr.	Snake R.	5/4 - 5/8	200,000	210,000	210,000				50,000	50,000	
Grand Total				480,000	420,000	420,000	0	0	0	102,000	89,800	12,200

4.2.2. Releases in 2015 (Smolt BY13, Captive Adult BY12, BY11, BY10) – 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

	Plan for 2015		Changes/Conditions that Occurred 2014-Early 2015
Location	Release Target Smolt BY13, Adult BY12, BY11, BY10	Transport/Release Smolt BY13, Adult BY12, BY11, BY10	Fish/Egg Health BY13, BY12, BY11, BY10
<i>Eagle Fish Hatchery (SOP Section 4.3)</i>			
Redfish Lake – Adult Releases (SnakeR)	NC	NC	NC
Alturas Lake – Egg Releases (SnakeR)	NC	NC	NC
<i>Burley Creek Fish Hatchery (NOAA) (SOP Section 4.3)</i>			
Redfish Lake – Adult Releases (SnakeR)	NC	NC	NC
Redfish Lake – Smolt Releases (SnakeR)	NC	NC	NC
<i>Oxbow Fish Hatchery –OR (SOP Section 4.4)</i>			
Redfish Lake – Smolt Releases (SnakeR)	Below goal of 100,000 due to SpFH coming on-line.	NC	NC
<i>Sawtooth Fish Hatchery (SOP Section 4.5)</i>			
Redfish Lake – Smolt Releases (SnakeR)	Below goal of 180,000 due to SpFH coming on-line.	NC	NC

	Plan for 2015		Changes/Conditions that Occurred 2014-Early 2015
Location	Release Target Smolt BY13, Adult BY12, BY11, BY10	Transport/Release Smolt BY13, Adult BY12, BY11, BY10	Fish/Egg Health BY13, BY12, BY11, BY10
<i>Springfield Fish Hatchery (SOP Section 4.6)</i>			
Redfish Lake – Smolt Releases (SnakeR)	This will be the first year of smolt releases from SpFH (BY13).		NC

4.3. Trap Operations and Production Planning for 2015 (BY 2015 for Smolt and Captive Adult Programs)
4.3.1. Trap Operations and Production Planning for 2015 (BY 2015 for Smolt and Captive Adult Programs) –
TOTALS

Table 4.3a. Sockeye Spawning for BY 2015

Site	Stock	Forecast return	Trapping period	Broodstock Need				
				M:F Ratio	Female	Male	Total	Max Jack %
Redfish Lake Creek	Snake R.	894	7/15 - 10/15	1:1	200	200	400	NA
Sawtooth	Snake R.	2	7/15 - 10/1	1:1	0	0		NA
Eagle FH	Snake R.	CB: 750	NA	1:1	300	300	600	NA
Burley Creek	Snake R.	CB: 1,200	NA	1:1	300	300	600	NA
Grand Total		896			800	800	1600	NA

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

4.3.2. Trap Operations and Production Planning for 2015 (BY 2015 for Smolt and Captive Adult Programs) – NARRATIVE

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

Plan for 2015 (BY 2015)						
Location	Adult Fish Health	Trap Ops	Forecast Returns	Broodstock Needs	Spawning protocol changes	Disposition of adults
<i>Eagle Fish Hatchery (SOP Section 4.3)</i>						
Eagle FH Captive Broodstock (SnakeR)	NC	NC	NC	Increased to meet SpFH egg goals.	2014 was the first year of randomly spawning males and females.	NC
<i>Burley Creek Fish Hatchery (SOP Section 4.3)</i>						
Burley Cr. FH Captive Broodstock (SnakeR)	NC	NC	NC	Increased to meet SpFH egg goals.	2014 was the first year of randomly spawning males and females.	NC
<i>Sawtooth Fish Hatchery (SOP Sections 4.2 and 4.5)</i>						
Redfish Lake Creek (SnakeR)	NC	NC	894	Increased to meet SpFH egg goals.	2014 was the first year of randomly spawning males and females.	NC
Sawtooth Trap (SnakeR)	NC	NC	2	Increased to meet SpFH egg goals.	2014 was the first year of randomly spawning males and females.	NC

4.4. Marking and Rearing Plan for 2015 (Smolt BY 2014)

4.4.1. Marking and Rearing Plan for 2015 (Smolt BY 2014)– TOTALS

Table 4.4a. BY 2014 Sockeye Marking in 2015

Hatchery	Release Site	Stock	Likely Release Date	Release Goals for 2016	Projected Actual Releases					PIT Tags		
					Total	Adipose Fin Clip		No Clip		Total # Tags	Funding Source	
						No CWT	CWT	CWT	No CWT		CSS	BPA
Oxbow	Redfish Lake Cr.	Snake R.	5/5	100,000	100,000	100,000				2,000		2,000
Sawtooth	Redfish Lake Cr.	Snake R.	NA	0	0							
Springfield	Redfish Lake Cr.	Snake R.	5/5	600,000	600,000	600,000				50,000	39,800	10,200
Grand Total				700,000	700,000	700,000	0	0	0	52,000	39,800	12,200

4.4.2. Marking and Rearing Plan for 2015 (Smolt BY 2014) – NARRATIVE

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

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

Location	Fish Health	Fish Feeding	Rearing Conditions	Marking
<i>Oxbow Fish Hatchery – OR (SOP Section 4.4)</i>				
Oxbow (SnakeR)	NC	NC	NC	NC
<i>Sawtooth Fish Hatchery (SOP Section 4.5)</i>				
Sawtooth (SnakeR)	BY13 smolts will be the last production group at SFH.	BY13 smolts will be the last production group at SFH.	BY13 smolts will be the last production group at SFH.	No BY14 sockeye on-site to mark at SFH.
<i>Springfield Fish Hatchery (SOP Section 4.6)</i>				
Springfield (SnakeR)	NC	NC	NC	NC