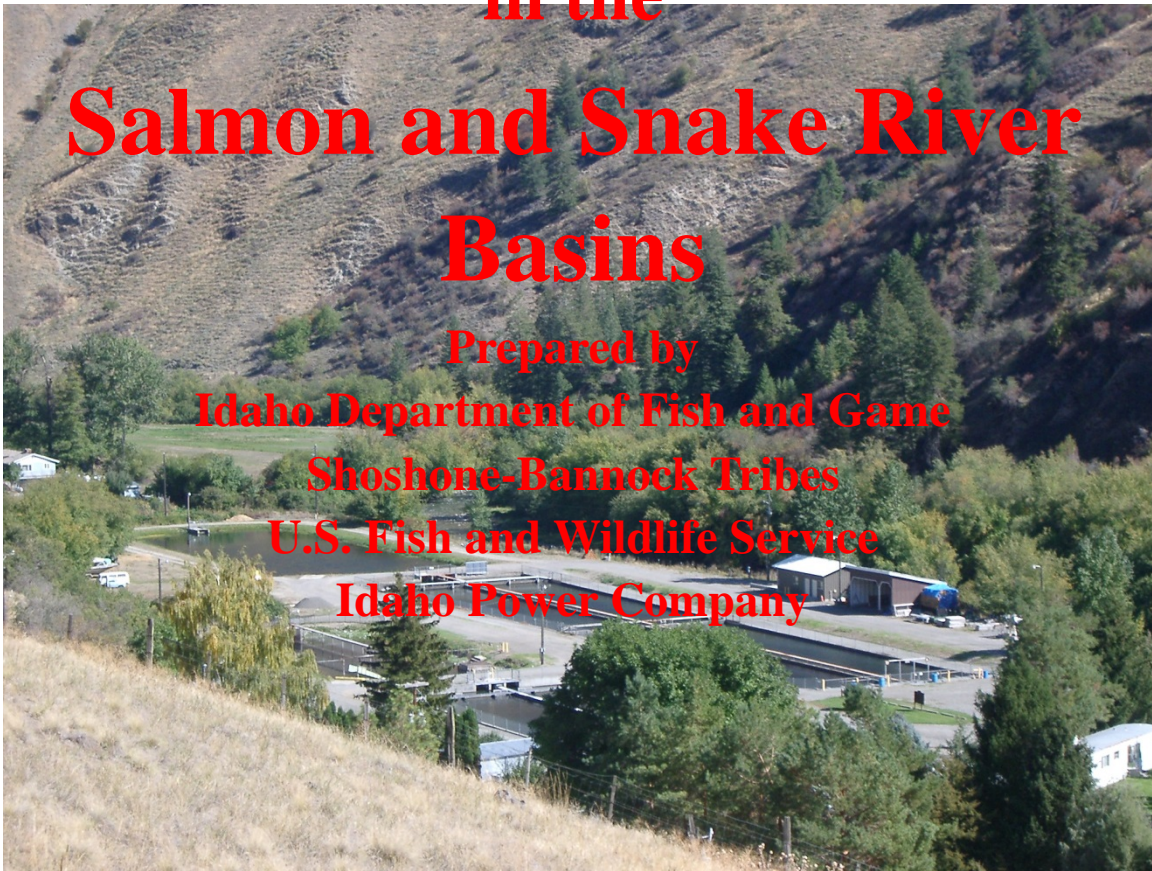




**Calendar Year 2014
Annual Operation Plan
for
Salmon and Steelhead
Production Programs
in the**



**Salmon and Snake River
Basins**

**Prepared by
Idaho Department of Fish and Game
Shoshone-Bannock Tribes
U.S. Fish and Wildlife Service
Idaho Power Company**

Salmon and Snake River Hatchery

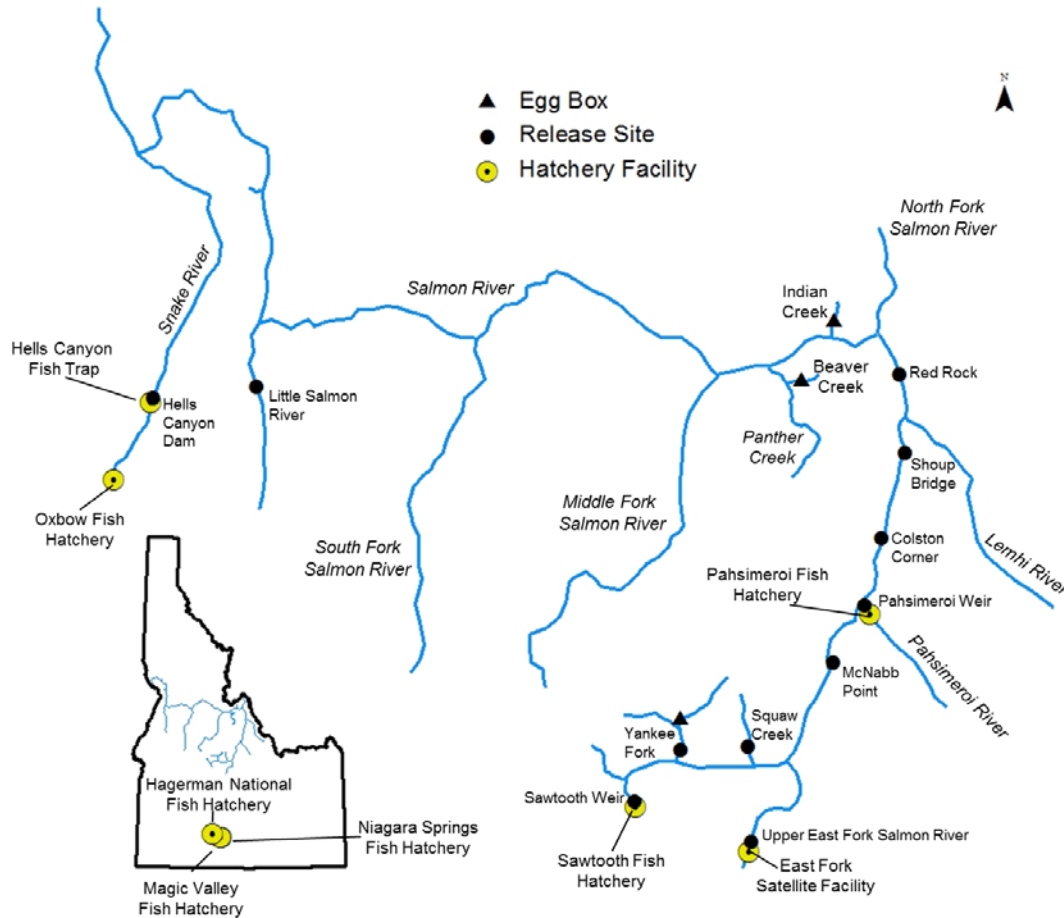
Annual Operation Plan

For Calendar Year 2014

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1 Summer Steelhead



Steelhead 2014 Release Goals.

Smolt Release Program	Rearing Facility	Release Site	Parent Stock	2014 Smolt Release Goal	Egg Box Program	Hatchery Egg Source	Egg Box Site	Parent Stock	Egg Box 2014 Outplant Goals	
LSRCP / IDFG	HNFH	Sawtooth Weir	SawA	1,270,000	SBT	PFH	Yankee Fork	USRB/DworB ¹	500,000	
	HNFH	Salmon R. - McNabb Pt.	SawA	130,000			Beaver Creek	USRB/DworB ¹	400,000	
	HNFH	E. Fork Salmon R. - Upper	EFNat	60,000			Indian Creek	USRB/DworB ¹	100,000	
	Total				1,460,000	Total				1,000,000
	MVFH	Salmon R. - Colston Corner	PahA	93,000	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					
	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	-						
	MVFH	Pahsimeroi Weir	DworB	186,000						
MVFH	Yankee Fork	USRB	496,000							
MVFH	Squaw Cr.	USRB	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.	OxB	250,000						
	NSFH	Snake R. Hells Canyon	OxB	550,000						
Total				1,800,000						
Grand Total				4,810,000						

Figure 1. Steelhead hatchery facilities, smolt release locations and egg box sites.

1.1 Releases in 2014

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.

Table 1.1a. Steelhead Rearing Metrics for BY 2013 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	1,376,677	1/27/14	1,278,532	1,270,000	4.5			4/7-27/14	1,270,000	4.5
HNFH	Salmon R. - McNabb Pt.	SawA	139,998	1/27/14	126,028	130,000	4.5			4/3-4/14	126,000	4.5
HNFH	E. Fork Salmon R. - Upper	EFNat	69,182	1/27/14	62,069	60,000	4.5			4/28-30/14	61,700	4.5
Totals			1,585,857		1,466,629	1,460,000		0			1,457,700	
MVFH	Salmon R. - Colston Corner	PahA	533,502	1/23/14	95,574	93,000	4.5			4/9	90,000	4.5
MVFH	Salmon R. - Shoup Br.	PahA		1/23/14	95,172	93,000	4.5			4/8	90,000	4.5
MVFH	Salmon R. - Red Rock	PahA		1/23/14	96,087	93,000	4.5			4/7	90,000	4.5
MVFH	Little Salmon R. - Stinky Sp.	PahA		1/23/14	202,047	186,000	4.5	9,644	9/10/2013	4/10-4/17	190,000	4.5
MVFH	Pahsimeroi Weir	DworB	203,482	1/23/14	140,835	186,000	4.5			4/16-4/18	130,000	4.5
MVFH	Yankee Fork	USRB		1/23/14	515,766	496,000	4.5	31,146	9/10/2013	4/14-4/16	500,000	4.5
MVFH	Squaw Cr.	USRB	1,169,943	1/23/14	190,369	186,000	4.5			4/18-4/23	180,000	4.5
MVFH	Little Salmon - Stinky Sp.	USRB		1/23/14	242,197	217,000	4.5			4/11-4/14	230,000	4.5
Totals			1,906,927		1,578,047	1,550,000		40,790			1,500,000	
NSFH	Pahsimeroi Weir	PahA	1,423,053	1/23/14	820,810	800,000	4.5	48,750	Salmon Falls Cr. Res. (9/10/2013)	4/3-4/23	820,000	4.0
NSFH	Little Salmon R. - Stinky Sp.	PahA		1/23/14	441,370	200,000	4.5			4/23-5/2	440,000	4.0
NSFH	Snake R. Hells Canyon	PahA		1/23/14	2,312	250,000	4.5			4/3	2,000	4.0
NSFH	Snake R. Hells Canyon	OxbA		611,190	1/23/14	577,483	550,000	4.5			3/24-4/3	577,000
Totals			2,034,243		1,841,975	1,800,000		48,750			1,839,000	
Grand Total			5,527,027		4,886,651	4,810,000		89,540			4,796,700	

Table 1.1b. BY 2013 Steelhead Inventory to Date by Mark Type in 2014

Hatchery	Release Site	Stock	Inventory to Date						Additional Tags	
			Date	Total	Adipose Fin Clip		No Clip		PIT Tag	
					No CWT	CWT	CWT	No CWT		
HNFH	Sawtooth Weir	SawA	1/27/14	1,278,532	1,278,532					8,587
HNFH	Salmon R. - McNabb Pt.	SawA	1/27/14	126,028	126,028					
HNFH	E. Fork Salmon R. - Upper	EFNat	1/27/14	62,069			62,069			8,593
Totals				1,466,629	1,404,560	-	62,069	-		17,180
MVFH	Salmon R. - Colston Corner	PahA	1/24/14	95,574	95,574					1,900
MVFH	Salmon R. - Shoup Br.	PahA	1/24/14	95,172	95,172					1,900
MVFH	Salmon R. - Red Rock	PahA	1/24/14	96,087	96,087					1,900
MVFH	Little Salmon R. - Stinky Sp.	PahA	1/24/14	202,047	202,047					2,200
MVFH	Pahsimeroi Weir	DworB	1/24/14	140,835			140,835			11,400
MVFH	Yankee Fork	USRB	1/24/14	515,766	283,453		232,313			11,400
MVFH	Squaw Creek	USRB	1/24/14	190,369	190,369					1,900
MVFH	Little Salmon - Stinky Sp.	USRB	1/24/14	242,197	242,197					2,200
Totals				1,578,047	1,204,899	-	373,148	-		34,800
NSFH	Pahsimeroi Weir	PahA	1/23/14	820,810	820,810					9,000
NSFH	Little Salmon R. - Stinky Sp.	PahA	1/23/14	441,370	441,370					5,100
NSFH	Snake R. Hells Canyon	PahA	1/23/14	2,312						
NSFH	Snake R. Hells Canyon	OxbA	1/23/14	577,483	577,483					8,600
Totals				1,841,975	1,841,975	-	-	-		22,700
Grand Total				4,886,651	4,451,434	-	435,217	-		74,680

Table 1.1c. Steelhead BY 2014 Egg box transfers in 2014

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

1.1.1 Hagerman National Fish Hatchery Releases

1.1.1.1 East Fork Weir (EFnat)

- **Smolt Release Targets- NC**
- **Fish Health- NC**
- **Transportation/Releases- NC**

1.1.1.2 Sawtooth Weir (SawA)

- **Smolt Release Targets- NC**
- **Fish Health- NC**
- **Transportation/Releases- NC**

1.1.1.3 Salmon R. McNabb Point (SawA)

- **Smolt Release Targets- NC**
- **Fish Health- NC**
- **Transportation/Releases- NC**

1.1.2 Magic Valley Fish Hatchery Releases

1.1.2.1 Salmon R. Colston Corner (PahA)

- **Smolt Release Targets- NC**
- **Fish Health- NC**
- **Transportation/Releases- NC**

1.1.2.2 Salmon R. Shoup Br. (PahA)

- **Smolt Release Targets- NC**
- **Fish Health- NC**
- **Transportation/Releases- NC**

1.1.2.3 Salmon R. Red Rock (PahA)

- **Smolt Release Targets- NC**
- **Fish Health- NC**
- **Transportation/Releases- NC**

1.1.2.4 L. Salmon R. Stinky Springs (PahA)

- **Smolt Release Targets- NC**
- **Fish Health- NC**
- **Transportation/Releases- NC**

1.1.2.5 Pahsimeroi Weir (DworB)

- **Smolt Release Targets-** NC
- **Fish Health-** NC
- **Transportation/Releases-** NC

1.1.2.6 Yankee Fork (USRB)

- **Smolt Release Targets-**
- **Fish Health-**
- **Transportation/Releases-**

1.1.2.7 Squaw Cr. (USRB)

- **Smolt Release Targets-** NC
- **Fish Health-** NC
- **Transportation/Releases-** NC

1.1.2.8 L. Salmon R Stinky Springs (USRB)

- **Smolt Release Targets-** NC
- **Fish Health-** NC
- **Transportation/Releases-** NC

1.1.3 Niagara Springs Fish Hatchery Releases

1.1.3.1 Pahsimeroi Weir (PahA)

- **Smolt Release Targets** - Adjusted to 800,000 from 830,000
- **Fish Health-**No Fish Health issues
- **Transportation/Releases-** NC

1.1.3.2 Little Salmon R. Stinky Springs (PahA)

- **Smolt Release Targets-** Release group is PAH stock for BY13 due to IHN concerns in Oxbow broodstock.
- **Fish Health-** No Fish Health issues
- **Transportation/Releases-** NC

1.1.3.3 Snake R. Hells Canyon (OxbA)

- **Smolt Release Targets-** Adjusted to 550,000 from 525,000 /2,312 PAH stock in HC release group
- **Fish Health-** No Fish Health issues
- **Transportation/Releases-** NC

1.1.4 Pahsimeroi Fish Hatchery (Egg transfers to SBT)

Managers made no comment unless some facility problem or forecast size leads you to believe the ability to achieve the goal might be compromised.

1.1.4.1 Yankee Fork (USRB/DworB) - NC

1.1.4.2 Indian Cr. (USRB/DworB) - NC

1.1.4.3 Beaver Cr. USRB/DworB) – NC

1.2 Trap Operations and Production Planning for 2014

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 –
- Trap operations-
- Production target or goal changes –
- Spawning protocol changes –
- Disposition of adults –

Table 1.2a. Steelhead Spawning for 2014

Trap Site	Egg Destination	Stock	Trapping period	Broodstock Trapping Required ¹			Number Needed to		
				Female	Male	Total	Fecundity	Females	Males
Dworshak National Fish Hatchery	Magic Valley Fish Hatchery	DworB							
Pahsimeroi Weir	Niagara Springs Fish Hatchery	PahA	Feb. 18 - May 10						
	Magic Valley Fish Hatchery	PahA	Feb. 18 - May 10	132	132	264	4,800	132	132
	SBT Egg Box	USRB/DworB ⁴	Feb. 18 - May 10	144	144	288	4,800	144	144
	SBT Egg Box	USRB/DworB ⁴	Feb. 18 - May 10						
	Magic Valley Fish Hatchery	USRB ³	Feb. 18 - May 10	225	225	450	6,010	225	225
Hells Canyon Trap (Oxbow Hatchery)	Niagara Springs Fish Hatchery	OxbA	Nov. 4 - Nov. 19						
Sawtooth and East Fork Weir ²	Hagerman National Fish Hatchery	SawA	Mar. 23 to May 1						
	Hagerman National Fish Hatchery	EFNat	Mar. 26 to May 17	18	18	36	5,500	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 1.2b. Steelhead Projected BY 2014 Smolt Production Goals for Release in 2015

Hatchery	Release Site	Stock	Smolt Release Goals
HNFH	Sawtooth Weir	SawA	1,370,000
	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/DworB	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

1.2.1 Dworshak National Fish Hatchery Ladder - Fall 2013-Spring 2014

1.2.1.1 Magic Valley Fish Hatchery (DworB)

- **Fish Health** – All females will be sampled for viral replicating agents. No culling for IHN, but will cull for other viruses.
- **Trap operations** - NC
- **Production target or goal changes** – Targeting 125 pairs
- **Spawning protocol changes** – NC
- **Disposition of adults** - NC

1.2.2 Pahsimeroi Weir

1.2.2.1 Niagara Springs Fish Hatchery (PahA)

- **Fish Health** – All females will be sampled for viral replicating agents. No culling for IHN, but will cull for other viruses. Eggs will be disinfected in the coolers with Argentyne at 100 ppm before entering the incubation room.
- **Trap operations**- NC
- **Production target or goal changes** – NC
- **Spawning protocol changes** – NC
- **Disposition of adults** - NC

1.2.2.2 Magic Valley Fish Hatchery (PahA)

- **Fish Health** – All females will be sampled for viral replicating agents. No culling for IHN, but will cull for other viruses.
- **Trap operations**- NC
- **Production target or goal changes** – 534,000 eyed eggs for MVFH
- **Spawning protocol changes** – NC
- **Disposition of adults** - NC

1.2.2.3 SBT Egg Box (PahA)

- **Fish Health** – All females will be sampled for viral replicating agents. No culling for IHN, but will cull for other viruses. Eggs will be disinfected in the coolers with Argentyne at 100 ppm before entering the incubation room.
- **Trap operations**- NC
- **Production target or goal changes** – NC
- **Spawning protocol changes** – NC
- **Disposition of adults** - NC

1.2.2.4 SBT Egg Box (USRB/DworB)

- **Fish Health** – NC
- **Trap operations**- NC
- **Production target or goal changes** – NC
- **Spawning protocol changes** – NC
- **Disposition of adults** - NC

1.2.2.5 Magic Valley Fish Hatchery (USRB)

- **Fish Health** – All females will be sampled for viral replicating agents. No culling for IHN, but will cull for other viruses.
- **Trap operations**- NC
- **Production target or goal changes** - NC
- **Spawning protocol changes** – NC
- **Disposition of adults** – NC
-

1.2.3 Hells Canyon Trap/Oxbow Hatchery - Fall 2013-Spring 2014

1.2.3.1 Niagara Springs Fish Hatchery (OxbA)

- **Fish Health** – All females will be sampled for viral replicating agents. No culling for IHN, but will cull for other viruses.
- **Trap operations-NC**
- **Production target or goal changes-NC**
- **Spawning protocol changes- NC**
- **Disposition of adults -NC**

1.2.4 Sawtooth and East Fork Weir

1.2.4.1 Hagerman National Fish Hatchery (EFNat)

- **Fish Health** – All females will be sampled for viral replicating agents. No culling for IHN, but will cull for other viruses.
- **Trap operations - NC**
- **Production target or goal changes** -Targeting 16 females to meet 70,000 eyed egg request.
- **Spawning protocol changes -NC**
- **Disposition of adults - NC**

1.2.4.2 Hagerman National Fish Hatchery (SawA)

- **Fish Health** –All females will be sampled for viral replicating agents. No culling for IHN, but will cull for other viruses.
- **Trap operations - NC**
- **Production target or goal changes** -Eyed egg request for HNFH increased to 1,470,000 for Sawtooth Weir, and 140,000 for McNabb Point this year due to their new reuse system.
- **Spawning protocol changes - NC**
- **Disposition of adults - NC**

1.3 Marking and Rearing Plan for 2014

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.

Table 1.3a. Steelhead Projected marking for BY 2014 Production.

Hatchery	Release Site	Stock	Smolt Release Goals	Projected Marking				
				Adipose No CWT	Fin Clip CWT	No Clip CWT	No Clip No CWT	PIT Tag
HNFH	Sawtooth Weir	SawA	1,370,000	1,190,000	180,000			8,600
	Salmon R. - McNabb Pt.	SawA	130,000	130,000				
	E. Fork Salmon R. - Upper	EFNat	60,000			60,000		8,600
Totals			1,560,000	1,320,000	180,000	60,000	-	17,200
MVFH	Salmon R. - Colston Corner	PahA	93,000	93,000				1,900
	Salmon R. - Shoup Br.	PahA	93,000	93,000				1,900
	Salmon R. - Red Rock	PahA	93,000	93,000				1,900
	Little Salmon R. - Stinky Sp.	PahA	186,000	186,000				2,200
	Pahsimeroi Weir	USRB	93,000			93,000		5,700
	Pahsimeroi Weir	DworB	93,000			93,000		5,700
	Yankee Fork	USRB/DworB	496,000	279,000			217,000	11,400
	Squaw Creek	USRB/DworB	186,000	186,000				1,900
Little Salmon - Stinky Sp.	USRB/DworB	217,000	217,000				2,200	
Totals			1,550,000	1,147,000	-	186,000	217,000	34,800
NSFH	Pahsimeroi Weir	PahA	800,000	800,000				9,000
	Little Salmon R. - Stinky Sp.	PahA	200,000	200,000				5,100
	Little Salmon R. - Stinky Sp.	OxbA	250,000	250,000				
	Snake R. Hells Canyon	OxbA	550,000	550,000				8,600
Totals			1,800,000	1,800,000	-	-	-	22,700
Grand Totals			4,910,000	4,267,000	180,000	246,000	217,000	74,700

1.3.1 Hagerman National Fish Hatchery

1.3.1.1 East Fork Weir (EFnat)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** – NC
- **Marking** - NC

1.3.1.2 Sawtooth Weir (SawA)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** – ~90,000 more SST in reuse system
- **Marking** - additional 180,000 CWT and 20,000 PIT tags for reuse system and comparable markings in raceways.

1.3.1.3 Salmon R. McNabb Point (SawA)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** – NC
- **Marking** - NC

1.3.2 Magic Valley Fish Hatchery

1.3.2.1 Salmon R. Colston Corner (PahA)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** – NC
- **Marking** -NC

1.3.2.2 Salmon R. Shoup Br (PahA)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** – NC
- **Marking** -NC

1.3.2.3 Salmon R. Red Rock (PahA)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** – NC
- **Marking** -NC

1.3.2.4 L. Salmon R. Stinky Springs (PahA)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** – NC
- **Marking** -NC

1.3.2.5 Pahsimeroi Weir (USRB)

- **Fish Health** -No USRB's into this location this year. (All Dwor B's)
- **Fish feeding** - No USRB's into this location this year. (All Dwor B's)
- **Rearing conditions** – No USRB's into this location this year. (All Dwor B's)
- **Marking** – No USRB's into this location this year. (All Dwor B's)

1.3.2.6 Pahsimeroi Weir (DworB)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** – NC
- **Marking** -NC

1.3.2.7 Yankee Fork Salmon R., Lower (USRB/DworB)

- **Fish Health** -NC
- **Fish feeding** - NC
- **Rearing conditions** – NC
- **Marking** -No CWT this year.

1.3.2.8 Salmon R. Stinky Springs (USRB/DworB)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** – NC
- **Marking** -No CWT this year.

1.3.2.9 Squaw Cr. (USRB/DworB)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** –NC
- **Marking** -No CWT this year.

1.3.3 Niagara Springs Fish Hatchery

1.3.3.1 L. Salmon R. Stinky Springs (OxbA)

- **Fish Health** -No longer applying OTC metaphylactically prior to release.
- **Fish feeding** - Fish fed well, changed diet to Rangen Hagerman steelhead
- **Rearing conditions** – excellent, raceways were remodeled during construction
- **Marking** - No CWT for BY13

1.3.3.2 Snake R. Hells Canyon (OxbA)

- **Fish Health** - No longer applying OTC metaphylactically prior to release.
- **Fish feeding** - Fish fed well, changed to Rangen Hagerman steelhead
- **Rearing conditions** – excellent, raceways were remodeled during construction
- **Marking** - No CWT for BY13

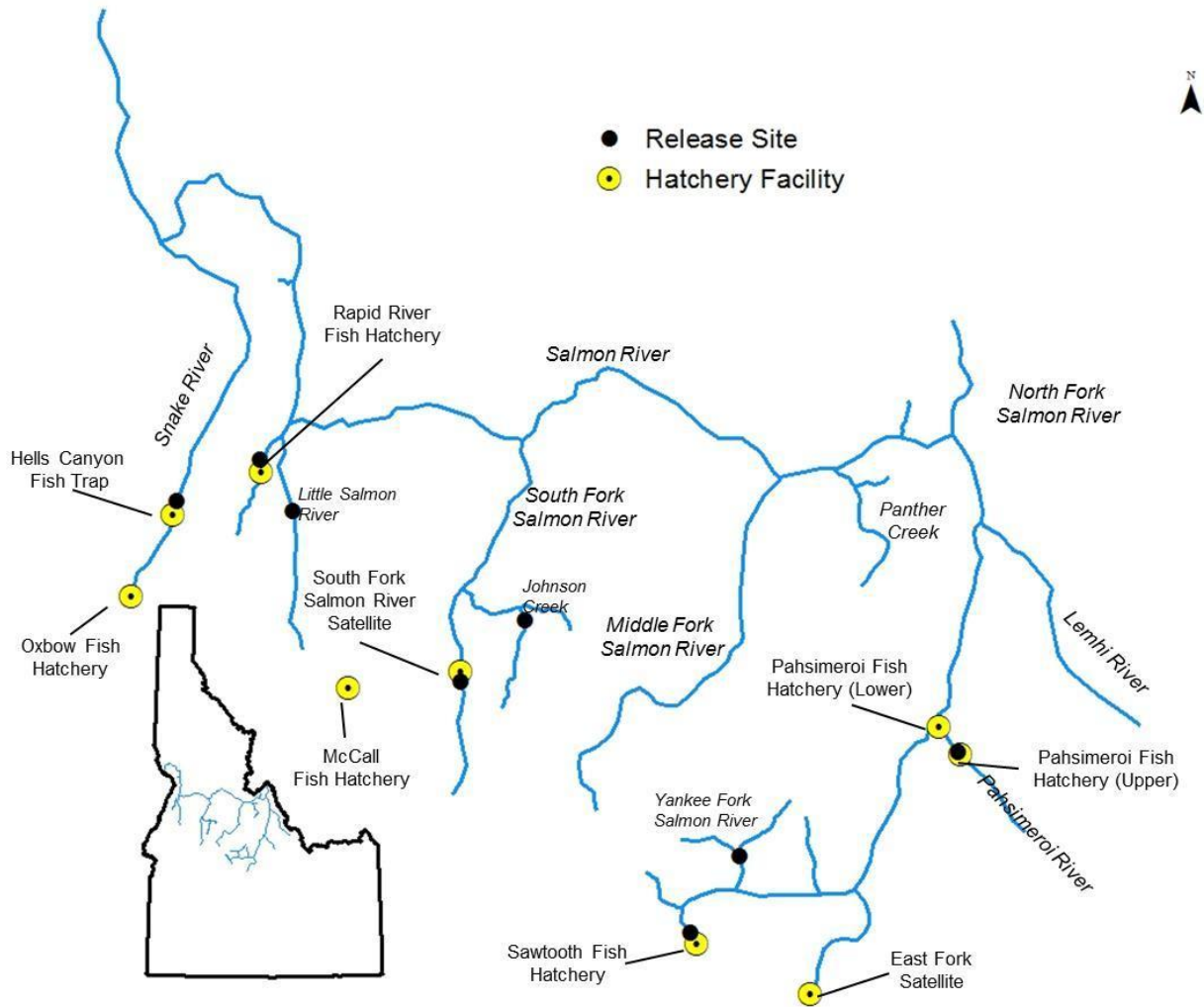
1.3.3.3 L. Salmon R. Stinky Springs (PahA)

- **Fish Health** - No longer applying OTC metaphylactically prior to release.
- **Fish feeding** - Fish fed well, changed diet to Rangen Hagerman steelhead
- **Rearing conditions** – excellent, raceways were remodeled during construction
- **Marking** - No CWT for BY13

1.3.3.4 Pahsimeroi Weir (PahA)

- **Fish Health** -No longer applying OTC metaphylactically prior to release.
- **Fish feeding** - Fish fed well, changed diet to Rangen Hagerman steelhead
- **Rearing conditions** – excellent, raceways were remodeled during construction
- **Marking** - No CWT for BY13

2 Spring/Summer Chinook



Sp/Su Chinook 2014 Release Goals

Release Program	Release Site	Rearing Facility	Parent Stock	2014 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 2014 Release
SBT Egg Box	Dollar Creek	McFH	SFSR Seg.	370,000	300,000
Chinook ¹	Powell Ponds	McFH/CFH	SFSR Seg.	750,000	NA

¹ Proportions of eggs from these two hatchery sources will be determined based on the strength of adult returns to each facility

Figure 2. Spring/Summer Chinook salmon hatchery facilities and smolt release locations.

2.1 Releases in 2014

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 Release Targets**- e.g. were you below goal, was you size at release different than SOP target etc.
- **Fish Health**- any epizootic history, anti-biotic treatments, was production culled at any point
- **Transportation/Releases**- e.g. timing, trucking issues, site access etc.

Table 2.1a. Sp/Su Chinook Salmon Rearing Metrics for BY 2012 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	3,160,915	1/31/2014	3,124,024	2,500,000	20.0	3/17	2,500,000	20.0
	Little Salmon	RapidR				150,000	20.0	3/17	200,000	20.0
	Hells Canyon	RapidR				350,000	20.0	3/17	424,000	20.0
Total			3,160,915	3,124,024	3,000,000			3,124,000		
SFH	Sawtooth Weir - Integrated	USRIInt	188,000	1/2/2014	180,523	200,000	15.0	4/4	180,000	18.0
	Sawtooth Weir - Segregated	USRSeg	1,856,162	1/2/2014	1,561,489	1,400,000	15.0	4/4	1,560,500	18.0
	Yankee Fork	USRSeg		1/2/2014	193,276	200,000	15.0	4/1-4/2	193,000	18.0
Total			2,044,162		1,935,288	1,800,000			1,933,500	
PFH	Pahsimeroi Weir - Integrated	PahInt	149,822	1/2/2014	143,442	200,000	15.0	4/1-4/14	143,000	15.0
	Pahsimeroi Weir - Segregated	PahSeg	1,058,909	1/2/2014	834,713	800,000	15.0	4/1-4/14	833,400	15.0
	Total			1,208,731	978,155	1,000,000			976,400	
McFH	SFSR Knox Br. - Integrated	SFSRIInt	262,421	12/31/2013	234,149	250,000	20.0	3/31-4/3	234,000	20.0
	SFSR Knox Br. - Segregated	SFSRSeg	855,496	12/31/2013	812,436	750,000	20.0	3/31-4/3	810,000	20.0
	Johnson Creek	JohnCr	110,000	12/31/2013	95,012	100,000	25.0	3/24-3/30	95,000	25.0
Total			1,227,917		1,141,597	1,100,000			1,139,000	
Grand Total			7,641,725		7,179,064	6,900,000			7,172,900	

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

Table 2.1b. BY 2012 Sp/Su Chinook Salmon Inventory to Date by Mark Type in 2014

Hatchery	Release Site	Stock	Inventory to Date						Additional Tags	
			Date	Total	Adipose Fin Clip		No Clip		PIT Tag	
					No CWT	CWT	CWT	No CWT		
RRFH	Rapid River Hatchery	RapidR	1/31/2014	3,124,024		120,920			52,000	
	Little Salmon	RapidR	1/31/2014		3,003,104					
	Hells Canyon	RapidR	1/31/2014							
Totals				3,124,024	3,003,104	120,920			52,000	
SFH	Sawtooth Weir - Integrated	USRIInt	1/2/2014	180,523			180,523		1,000	
	Sawtooth Weir - Segregated	USRSeg	1/2/2014	1,561,489	1,442,788	118,701			19,000	
	Yankee Fork	USRSeg	1/2/2014	193,276			193,276		2,400	
Totals				1,935,288	1,442,788	118,701	373,799		22,400	
Pah	Pahsimeroi Weir - Integrated	PahInt	1/21/2014	143,442			143,442		1,000	
	Pahsimeroi Weir - Segregated	PahSeg	1/21/2014	834,713	732,713	102,000			21,400	
	Totals				978,155	732,713	102,000	143,442		22,400
McFH	SFSR Knox Br. - Integrated	SFSRIInt	12/31/2013	234,149			234,149		26,000	
	SFSR Knox Br. - Segregated	SFSRSeg	12/31/2013	812,436	699,094	113,342			26,000	
	Johnson Creek	JohnCr	12/31/2013	95,012			95,012		2,100	
Totals				1,141,597	699,094	113,342	329,161		54,100	
Grand Total				7,179,064	5,877,699	454,963	846,402		150,900	

Table 2.1c. Sp/Su Chinook salmon BY 2014 egg transfers to streamside egg boxes in 2014

Program	Location	Hatchery Egg Source	Parent Stock	Green Egg Target	Eyed Egg 2014 Release Goal
SBT Egg Box	Dollar Creek	McFH	SFSR Seg.	370,000	300,000

2.1.1 McCall Fish Hatchery

2.1.1.1 SFSR Knox Bridge (SFSR Integrated)

- **Smolt Release Targets** - 234,149 will be released. Approximately 32,500 lost due to interrupted water flow-mechanical failure
- **Fish Health** - NC.
- **Transportation/Releases** – NC

2.1.1.2 SFSR Knox Bridge (SFSR Segregated)

- **Smolt Release Targets** - 812,436
- **Fish Health** - NC
- **Transportation/Releases** - NC

2.1.1.3 Johnson Cr. (Johnson Creek)

- **Smolt Release Targets** – 95,000 released. 25,400 lost due to interrupted water flow - mechanical failure
- **Fish Health** - NC
- **Transportation/Releases** - NC

2.1.1.4 Dollar Cr. (SFSR Segregated) – Egg Release

- **Smolt Release Targets** - NC
- **Fish Health** - NC
- **Transportation/Releases** – NC

2.1.2 Pahsimeroi (Pahsimeroi)

2.1.2.1 Pahsimeroi Integrated

- **Smolt Release Targets** - NC
- **Fish Health** -Mortality due to BKD, from February through March of 2014, mortality to BKD was 10,802 of 1, 014,781 Chinook salmon (1.06%). These fish were treated with erythromycin medicated feed at a target dose of 100 mg/KG/day for 28 application days.
- **Transportation/Releases** -NC

2.1.2.2 Pahsimeroi Segregated

- **Smolt Release Targets** - NC
- **Fish Health** -Mortality due to BKD, from February through March of 2014, mortality to BKD was 10,802 of 1, 014,781 Chinook salmon (1.06%). These fish were treated with erythromycin medicated feed at a target dose of 100 mg/KG/day for 28 application days.
- **Transportation/Releases** -NC

2.1.3 Rapid River

2.1.3.1 Rapid R. (Rapid River)

- **Smolt Release Targets** - NC
- **Fish Health** - good fish health with no issues; pre-liberations to be conducted 2/2014.
- **Transportation/Releases** - NC

2.1.3.2 Hells Canyon (Rapid River)

- **Smolt Release Targets** - Projected 2014 release of BY12 = 424,000 (SOP=350,000)
- **Fish Health** - good fish health with no issues; pre-liberations to be conducted 2/2014.
- **Transportation/Releases** - NC

2.1.3.3 Little Salmon R.(Rapid River)

- **Smolt Release Targets** - Projected 2014 release of BY12 = 200,000 (SOP=150,000)
- **Fish Health** - good fish health with no issues; pre-liberations to be conducted 2/2014.
- **Transportation/Releases** - NC

2.1.4 Sawtooth

2.1.4.1 Sawtooth Weir (Salmon River Segregated)

- **Smolt Release Targets** -~160-K above release goal
- **Fish Health** - good fish health with no issues; pre-liberations conducted on 2/19/2013.
- **Transportation/Releases** - NC

2.1.4.2 Sawtooth Weir (Salmon River Integrated)

- **Smolt Release Targets** - Smolt release will be short of target (200,000) by 20,000 fish due to shortage of natural-origin males returning in 2012.
- **Fish Health** -good fish health with no issues; pre-liberations conducted on 2/19/2013.
- **Transportation/Releases** -

2.1.4.3 Yankee Fork (Salmon River Segregated)

- **Smolt Release Targets** – NC
- **Fish Health** - NC
- **Transportation/Releases** - NC

2.2 Trap Operations and Production Planning for 2014

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** –
- **Trap operations-**
- **Production target or goal changes –**
- **Spawning protocol changes –**
- **Disposition of adults –**

Table 2.2a. Sp/Su Chinook Spawning for BY 2014

Hatchery	Release Site	Stock	Forecasted Returns ¹						Trapping period	Broodstock Need					
			LWG			Trap ²				M:F Ratio	Hatchery		Natural		Total
			HORseg	HORint	NOR	HORint	NOR	Female			Male	Female	Male		
RRFH	Rapid River Trap	RapidR	12,959	NA	NA	NA	NA	May-Sept.	1 to 1	1050	1050	NA	NA	2100	
	Little Salmon	RapidR	778	NA	NA	NA	NA	No trap	NA	NA	NA	NA	NA	0	
	Hells Canyon Trap	RapidR	1,814	NA	NA	NA	NA	May-Sept.	1 to 1	200	200	NA	NA	400	
	Totals		15,551	0	0	0	0			1,250	1,250	0	0	2,500	
SFH	Sawtooth Weir - Integrated	USRInt	NA	677	2820	508	2115	May-Sept.	1 to 1	15	15	35	35	100	
	Sawtooth Weir - Segregated	USRSeg	4,403	NA	NA	NA	NA	May-Sept.	1 to 1	350	350	0	0	700	
	Yankee Fork (cwt only)	USRSeg	745	NA	NA	NA	NA	May-Sept.	1 to 1	50	50	0	0	100	
	Totals		5,148	677	2,820	508	2115			415	415	35	35	900	
PFH	Pahsimeroi - Integrated	PahInt	NA	412	400	309	300	June-Sept.	1 to 1	38	38	25	25	126	
	Pahsimeroi - Segregated	PahSeg	1656	NA	NA	NA	NA	June-Sept.	1 to 1	237	237	0	0	474	
	Totals		1,656	412	400	309	300			275	275	25	25	600	
McFH	SFSR - Integrated	SFSRInt	NA	1,517	3760	1,138	2820	June-mid-Sept.	1 to 1	10	9	85	86	190	
	SFSR - Segregated	SFSRSeg	5,013	NA	NA	NA	NA	June-mid-Sept.	1 to 1	542	542	0	0	1084	
	Johnson Creek	JohnCr	NA	330	1660	248	1245	June-mid-Sept.	1 to 1	0	0	40	40	80	
	Totals		5,013	1,847	5,420	1385	4065			552	551	125	126	1,354	
Grand Totals			27,368	2,936	8,640	2202	6480			2,492	2,491	185	186	5,354	

¹ Forcast for adults only

² These trap projections are only for natural origin returns (NORs) and integrated hatchery origin fish (HORint)

Table 2.2b. BY 2014 Sp/Su Chinook Smolt Production Goals for Release in 2016.

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	200,000
	Sawtooth Weir - Segregated	1,400,000
	Yankee Fork	200,000
	Total	1,800,000
PFH	Pahsimeroi Weir - Integrated	200,000
	Pahsimeroi Weir - Segregated	800,000
	Total	1,000,000
McFH	SFSR Knox Br. - Integrated	250,000
	SFSR Knox Br. - Segregated	750,000
	Johnson Creek	100,000
	Total	1,100,000
Grand Total		6,900,000

Table 2.2c. Sp/Su Chinook Egg Transfers used for BY 2014 Smolt Production (Release in 2016)

Origin	Transfer Site	Stock	Green Egg Goal	Smolt Release Goal
McFH/CFH ¹	Clearwater Fish Hatchery	SFSR Seg/CFH	750,000	600,000

¹ Proportions of eggs from these two hatchery sources will be determined based on the strength of adult returns to each facility

2.2.1 McCall Fish Hatchery

2.2.1.1 Johnson Cr. Weir (Johnson Creek)

- **Fish Health** – NC
- **Trap operations**- may be changing from opercle tags on fish released above Johnson Creek weir to either an opercle punch or other opercle tag/mark.
- **Production target or goal changes** - NC
- **Spawning protocol changes** - NC
- **Disposition of adults** - NC

2.2.1.2 SFSR Trap (Integrated Brood)

- **Fish Health** – NC
- **Trap operations**- NC
- **Production target or goal changes** -NC
- **Spawning protocol changes** – NC
- **Disposition of adults** – TBD DISPOSITION OF ANY EXCESS ADULTS

2.2.1.3 SFSR Trap (Segregated Brood)

- **Fish Health** – NC
- **Trap operations**- NC
- **Production target or goal changes** -NC
- **Spawning protocol changes** – NC
- **Disposition of adults** – TBD DISPOSITION OF ANY EXCESS ADULTS

2.2.1.4 Clearwater Fish Hatchery (Segregated Brood) - Egg Transfer

- **Fish Health** – NC
- **Trap operations**- NC
- **Production target or goal changes** - NC
- **Spawning protocol changes** - NC
- **Disposition of adults** - NC

2.2.2 Pahsimeroi Fish Hatchery

2.2.2.1 Pahsimeroi Trap (Pahsimeroi Integrated)

- **Fish Health** –NC
- **Trap operations**- NC
- **Production target or goal changes** -NC
- **Spawning protocol changes** -NC
- **Disposition of adults** – TBD DISPOSITION OF ANY EXCESS ADULTS

2.2.2.2 Pahsimeroi Trap (Pahsimeroi Segregated)

- **Fish Health** –NC
- **Trap operations**- NC
- **Production target or goal changes** -NC
- **Spawning protocol changes** -NC
- **Disposition of adults** - NC

2.2.3 Rapid River Fish Hatchery

2.2.3.1 Hells Canyon Trap (Rapid River)

- **Fish Health** – BY14 spring Chinook will not receive an intra-peritoneal injection of Erythromycin before being transported to RRFH.
- **Trap operations**-NC
- **Production target or goal changes** - NC
- **Spawning protocol changes** - NC
- **Disposition of adults** - NC

2.2.3.2 Little Salmon R. (Rapid River)

- **Fish Health** – First year of change BY14 spring Chinook will not receive an intra-peritoneal injection of Erythromycin (SOP has been amended).
- **Trap operations**- First year of change BY14 will not receive an MS-222 treatment at trap (SOP has been amended).
- **Production target or goal changes** -
- **Spawning protocol changes** -
- **Disposition of adults** -

2.2.3.3 Rapid River Trap (Rapid River)

- **Fish Health** – First year of change BY14 spring Chinook will not receive an intra-peritoneal injection of Erythromycin (SOP has been amended).
- **Trap operations**- First year of change BY14 will not receive an MS-222 treatment at trap (SOP has been amended).
- **Production target or goal changes** - NC
- **Spawning protocol changes** - NC
- **Disposition of adults** - NC

2.2.4 Sawtooth Fish Hatchery

2.2.4.1 East Fork Salmon River Weir

- **Fish Health** – NC
- **Trap operations**- NC
- **Production target or goal changes** - NC
- **Spawning protocol changes** - NC
- **Disposition of adults** - NC

2.2.4.2 Sawtooth Weir (Upper Salmon R. Integrated)

- **Fish Health** – NC
- **Trap operations**- NC
- **Production target or goal changes** - NC
- **Spawning protocol changes** - NC
- **Disposition of adults** – TBD DISPOSITION OF ANY EXCESS ADULTS

2.2.4.3 Sawtooth Weir (Upper Salmon R Segregated)

- **Fish Health** –NC
- **Trap operations**- NC
- **Production target or goal changes** - NC
- **Spawning protocol changes** - NC
- **Disposition of adults** - NC

2.2.4.4 Yankee Fork Trap (Yankee Fork and Upper Salmon R. Segregated)

- **Fish Health** – NC
- **Trap operations**- NC
- **Production target or goal changes** - NC
- **Spawning protocol changes** - NC
- **Disposition of adults** - NC

2.3 Marking and Rearing Plan for 2014

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.

Table 2.3a. Sp/Su Chinook Projected Marking of BY 2013 fish in 2014

Hatchery	Release Site	Likely Marking Date(s)	Projected Releases for 2015	Inventory to Date		Projected Marking				PIT Tag ¹
						Adipose Fin Clip		No Clip		
				Date	Number	No CWT	CWT	CWT	No CWT	
RRFH	Rapid River Hatchery	June 11-June 25	2,500,000				120,000			52,000
	Little Salmon	June 11-June 25	150,000	1/31/2014	3,108,361	2,988,361				
	Hells Canyon	June 11-June 25	350,000							
	Totals		3,000,000		3,108,361	2,988,361	120,000			52,000
SFH	Sawtooth Weir - Integrated	May 11-May21	190,000	1/2/2014	211,115			170,000		1,000
	Sawtooth Weir -Segregated	May 11-May21	1,545,000	1/2/2014	1,760,921	1,435,000	110,000			19,000
	Yankee Fork	May 11-May21	200,000				200,000			2,400
	Totals		1,935,000		1,972,036	1,435,000	310,000	170,000		22,400
PFH	Pahsimeroi Weir - Integrated	May 12-May 16	202,000	2/1/2014	213,009			202,000		1,000
	Pahsimeroi Weir - Segregated	May 12-May 16	568,000	2/1/2014	604,825	457,000	111,000			21,400
	Totals		770,000		817,834	457,000	111,000	202,000		22,400
McFH	SFSR Knox Br. - Integrated	(June 2-6)-(July 7-11)	250,000	12/31/2013	266,686			250,000		26,000
	SFSR Knox Br. - Segregated	(June 2-6)-(July 7-11)	750,000	12/31/2013	863,599	680,000	120,000			26,000
	Johnson Creek	(June 2-6)-(July 7-11)	100,000	12/31/2013	121,490			120,000		2,000
	Totals		1,100,000		1,251,775	680,000	120,000	370,000		54,000
Grand Totals			6,805,000		7,150,006	5,560,361	661,000	742,000		150,800

¹ PIT Tagging occurs in spring 2015

2.3.1 McCall

2.3.1.1 Knox Bridge (SFSR Segregated)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** - possible water quality issues and/or rearing water thermal change due to Lardo Bridge construction
- **Marking** - may shift to Fall PIT
- **Current Inventory** -864,000

2.3.1.2 Knox Bridge (SFSR Integrated)

- **Fish Health** -NC
- **Fish feeding** - NC
- **Rearing conditions** - possible water quality issues and/or rearing water thermal change due to Lardo Bridge construction
- **Marking** -may shift to Fall PIT
- **Current Inventory** - 267,000

2.3.1.3 Johnson Cr. (Johnson Creek)

- **Fish Health** - NC
- **Fish feeding** -NC
- **Rearing conditions** - possible water quality issues and/or rearing water thermal change due to Lardo Bridge construction
- **Marking** - NC
- **Current Inventory** - 121,500

2.3.2 Pahsimeroi

2.3.2.1 Pahsimeroi Ponds (Pahsimeroi Segregated)

- **Fish Health** -NC
- **Fish feeding** - NC
- **Rearing conditions** - NC
- **Marking** - NC
- **Current Inventory** – NC

2.3.2.2 Pahsimeroi Ponds (Pahsimeroi Integrated)

- **Fish Health** -NC
- **Fish feeding** - NC
- **Rearing conditions** - NC
- **Marking** - NC
- **Current Inventory** - NC

2.3.3 Rapid River

2.3.3.1 Rapid R. (Rapid River)

- **Fish Health** - NC
- **Fish feeding** - First year of change for BY13 no metaphylactic antibiotic feeding (SOP has been amended).
- **Rearing conditions** - NC
- **Marking** - NC
- **Current Inventory** - 3,108,361

2.3.3.2 Hells Canyon (Rapid River)

- **Fish Health** - NC
- **Fish feeding** - First year of change for BY13 no metaphylactic antibiotic feeding (SOP has been amended).
- **Rearing conditions** - NC
- **Marking** – NC
- **Current Inventory** - (see § 2.3.3.1)

2.3.3.3 Little Salmon R.(Rapid River)

- **Fish Health** -NC
- **Fish feeding** - First year of change for BY13 no metaphylactic antibiotic feeding (SOP has been amended).
- **Rearing conditions** - NC
- **Marking** - NC
- **Current Inventory** - (see § 2.3.3.1)

2.3.4 Sawtooth

2.3.4.1 Sawtooth Weir (Salmon River Segregated)

- **Fish Health** -NC
- **Fish feeding** - NC
- **Rearing conditions** – NC
- **Marking** -PIT tagging may occur in the Fall of 2014
- **Current Inventory** - NC

2.3.4.2 Sawtooth Weir (Salmon River Integrated)

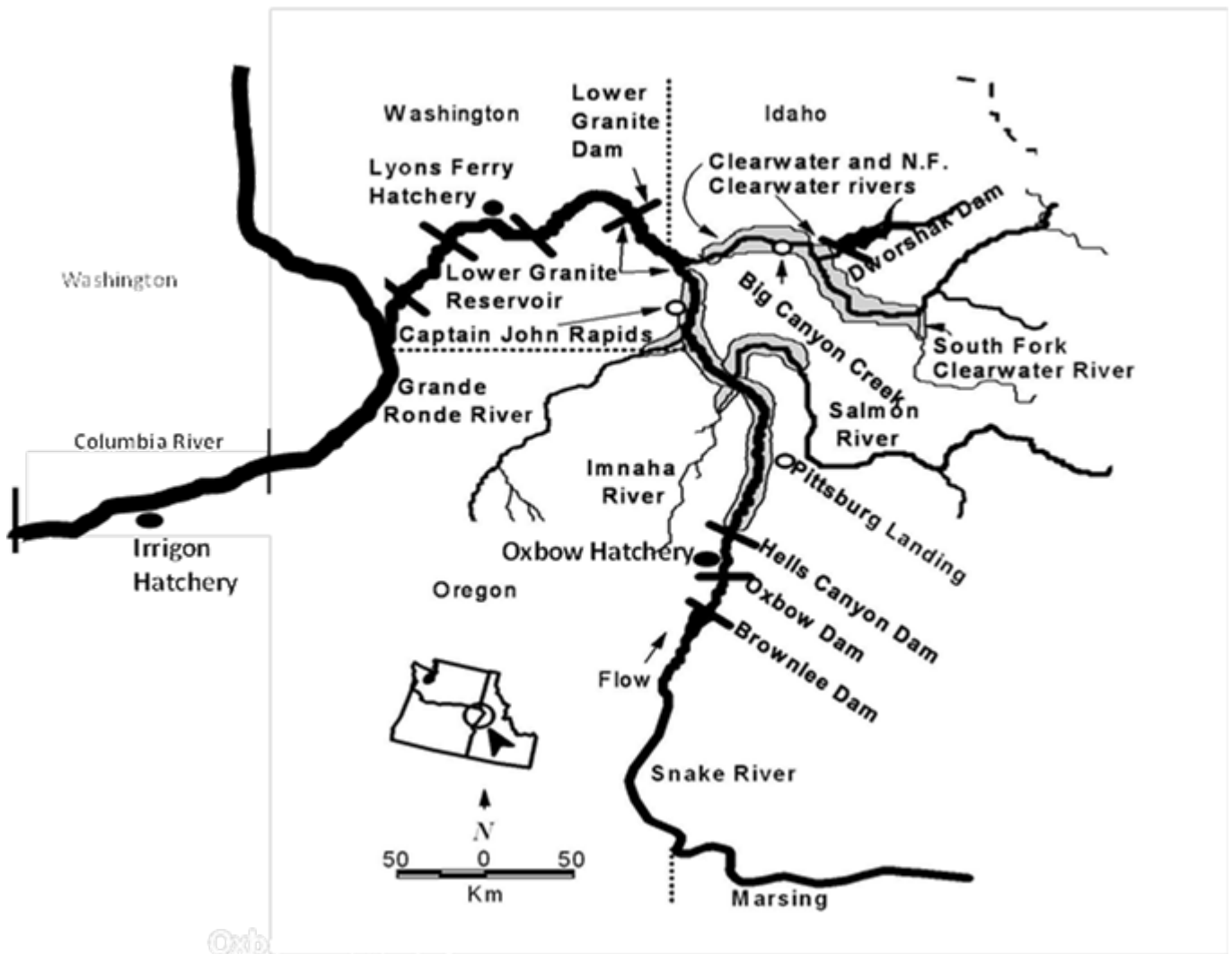
- **Fish Health** -NC
- **Fish feeding** - NC
- **Rearing conditions** - NC
- **Marking** -PIT tagging may occur in the Fall of 2014
- **Current Inventory** - NC

2.3.4.3 Yankee Fork (Salmon River Segregated)

- **Fish Health** -NC
- **Fish feeding** - NC
- **Rearing conditions** - NC
- **Marking** -PIT tagging may occur in the Fall of 2014. All smolts will be ad-clipped starting with brood year 2013.
- **Current Inventory** - NC

3 Fall Chinook

Hatchery operations



BY 2013 Fall Chinook Subyearling Release Goals in 2014

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

Figure 3. Fall Chinook salmon hatchery facilities and smolt release locations.

3.1 Releases in 2014

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 Release Targets**- e.g. were you below goal, was you size at release different than SOP target etc.
- **Fish Health**- any epizootic history, anti-biotic treatments, was production culled at any point
- **Transportation/Releases**- e.g. timing, trucking issues, site access etc.

Table 3.1a. BY2013 Fall Chinook Sub-yearling Marking and Releases in 2014

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

3.1.1 Oxbow Fish Hatchery (IDFG)

3.1.1.1 Hells Canyon Dam Release

- **Smolt Release Targets** – OFH will not tentatively raise 200,000 fall Chinook smolts for BY13, BY14, or BY15 releases.
- **Fish Health** -NC.
- **Transportation/Releases** - NC

3.1.2 Irrigon Fish Hatchery (ODFW)

3.1.2.1 Hells Canyon Dam Release

- **Smolt Release Targets** – Irrigon Hatchery will raise the full million fall Chinook sub-yearling smolts for BY13, BY14, and BY15.
- **Fish Health** -NC
- **Transportation/Releases** -Irrigon Hatchery will release the full million fall Chinook sub-yearling smolts for BY13,BY14, and BY15.

3.2 Production Planning for 2014

Refer to Lyons Ferry AOP

3.3 Marking and Rearing Plan for 2014

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.

3.3.1 Oxbow Fish Hatchery (IDFG)

3.3.1.1 Hells Canyon Dam Release

- **Fish Health** -NC
- **Fish feeding** - NC
- **Rearing conditions** -NC
- **Marking** -NC

3.3.2 Irrigon Fish Hatchery (ODFW)

3.3.2.1 Hells Canyon Dam Release

- **Fish Health** -NC
- **Fish feeding** - NC
- **Rearing conditions** –NC
- **Marking**-Irrigon plans on marking 800,000 fall Chinook sub-yearlings with an AD clip, 200,000 with an AD/CWT clip, and 3,000 with a PIT tag for BY13.

4 Sockeye

4.1 Releases in 2014

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 Release Targets**- e.g. were you below goal, was you size at release different than SOP target etc.
- **Fish Health**- any epizootic history, anti-biotic treatments, was production culled at any point
- **Transportation/Releases**- e.g. timing, trucking issues, site access etc.

Table 4.1a. Sockeye Captive-Reared Adult Releases in 2014

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	2009	Redfish Lake	Snake R.	9/10	0	1	0	0	0	0	1
	2010	Redfish Lake	Snake R.	9/10	50	100	100	0	0	0	100
	2011	Redfish Lake	Snake R.	9/10	200	200	200	0	0	0	200
Total					250	301	301	0	0	0	301
Eagle	2010	Redfish Lake	Snake R.	9/10	0	5	5	0	0	0	5
	2011	Redfish Lake	Snake R.	9/10	0	200	200	0	0	0	200
Total					0	205	205	0	0	0	205
Grand Total					250	506	506	0	0	0	506

Table 4.1b. BY 2012 Sockeye Smolt Releases in 2014

Hatchery	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	
Oxbow	Redfish Lake Cr.	Snake R.	5/8	100,000	120,000	120,000	0	0	0	2,000
Sawtooth	Redfish Lake Cr.	Snake R.	5/8	170,000	170,000	170,000	0	0	0	50,000
NOAA - Burley Creek	Redfish Lake Cr.	Snake R.	5/8	0	1,300	1,300	0	0	0	0
Grand Total				270,000	291,300	291,300	0	0	0	52,000

4.1.1 Eagle (Snake River)

4.1.1.1 Adult Releases- Redfish Lake

- **Adult Release Targets** - 200 captive broodstock expected to be available for release.
- **Fish Health** - NC
- **Transportation/Releases** - NC

4.1.1.2 Egg Releases- Alturas Lake-NC

The programmatic use of egg boxes for the Sockeye program has ended. However, managers may out plant eggs in Alturas Lake as an outlet for eggs from females with moderate-high BKD ELISA values

4.1.2 NOAA : Burley Creek (Snake River)

4.1.2.1 Adult Releases- Redfish Lake

- **Adult Release Targets** - NC
- **Fish Health** - NC
- **Transportation/Releases** - NC

4.1.2.2 Smolt Releases-Redfish Lake

- **Smolt Release Targets** - Approximately 1,300 smolts will be released. These smolts were part of a chilled water study at Burley Creek.
- **Fish Health** - NC
- **Transportation/Releases** - Smolts will be transported to Oxbow FH and added to the Oxbow FH smolt group for release to Redfish Lake Creek in May.

4.1.3 Oxbow (Snake River)

4.1.3.1 Smolt Releases- Redfish Lake Creek

- **Smolt Release Targets** - NC
- **Fish Health** - NC
- **Transportation/Releases** - NC

4.1.4 Sawtooth (Snake River)

4.1.4.1 Smolt Releases-Redfish Lake

- **Smolt Release Targets** - NC
- **Fish Health** - NC
- **Transportation/Releases** - NC

4.2 Trap Operations and Production Planning for 2014

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** –
- **Trap operations-**
- **Production target or goal changes –**
- **Spawning protocol changes –**
- **Disposition of adults –**

Table 4.2a. Sockeye Spawning for BY 2014

Site	Stock	Forecast return	Trapping period	Broodstock Need				
				M:F Ratio	Female	Male	Total	Max Jack %
Redfish Lake Creek	Snake R.	600	7/15 - 10/15	1:1	40	40	80	10
Sawtooth	Snake R.	60	7/15 - 10/1	1:1	10	10	20	10
Eagle FH	Snake R.	NA	NA: Captive	1:1	300	300	600	NA
Burley Creek	Snake R.	NA	NA: Captive	1:1	300	300	600	NA
Grand Total		660			650	650	1300	

4.2.1 Sawtooth

4.2.1.1 Redfish Lake Creek (Snake River)

- **Fish Health** – NC
- **Trap operations** - NC
- **Forecast Return** - 600
- **Broodstock Needs** - Sliding scale based on return size. 100 adults needed to provide approximately 100,000 eyed eggs.
- **Spawning protocol changes** – NC
- **Disposition of adults** - NC

4.2.1.2 Sawtooth (Snake River)

- **Fish Health** – NC
- **Trap operations** - NC
- **Forecast Return** - 60
- **Broodstock Needs** - Sliding scale based on return size. Broodstock needs included above.
- **Spawning protocol changes** – NC
- **Disposition of adults** - NC

4.2.2 Burley Creek Captive Broodstock (Snake River)

- **Fish Health** – NC
- **Production target or goal changes** - 600 adults needed to provide approximately 350,000 eyed eggs.
- **Spawning protocol changes** – NC
- **Disposition of adults** - NC

4.2.3 Eagle Fish Hatchery Captive Broodstock (Snake River)

- **Fish Health** – NC
- **Production target or goal changes** -600 adults needed to provide approximately 350,000 eyed-eggs.
- **Spawning protocol changes** – NC
- **Disposition of adults** - NC

4.3 Marking and Rearing Plan for 2014

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.

Table 4.3a. BY 2013 Sockeye Marking in 2014

Hatchery	Release Site	Stock	Likely Release Date	Release Goals for 2015	Projected Actual Releases					
					Total	Adipose Fin Clip		No Clip		PIT Tag
						No CWT	CWT	CWT	No CWT	
Oxbow	Redfish Lake Cr.	Snake R.	May 2015	90,000	90,000	90,000	0	0	0	2,000
Sawtooth	Redfish Lake Cr.	Snake R.	May 2015	170,000	170,000	170,000	0	0	0	50,000
Springfield	Redfish Lake Cr.	Snake R.	May 2015	200,000	200,000	200,000	0	0	0	?
Grand Total				460,000	460,000	460,000	0	0	0	52,000

4.3.1 Oxbow (Snake River)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** - NC
- **Marking** - No CWT tagging.

4.3.2 Sawtooth (Snake River)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** - NC
- **Marking** - No CWT tagging.

4.3.3 Springfield (Snake River)

- **Fish Health** - NC
- **Fish feeding** - NC
- **Rearing conditions** - NC
- **Marking** - No CWT tagging.