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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4.2.1 Sawtooth

4.2.2 Burley Creek Captive Broodstock (Snake River)

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4.3 Marking and Rearing Plan for 2014

4.3.1 Oxbow (Snake River)

4.3.2 Sawtooth (Snake River)

4.3.3 Springfield (Snake River)
1 Summer Steelhead


<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HNFH</td>
<td>Sawtooth Weir</td>
<td>SawA</td>
<td>1,270,000</td>
<td></td>
</tr>
<tr>
<td>HNFH</td>
<td>Salmon R. - McNabb Pt.</td>
<td>SawA</td>
<td>130,000</td>
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<td>HNFH</td>
<td>E. Fork Salmon R. - Upper</td>
<td>EFNat</td>
<td>60,000</td>
<td></td>
</tr>
<tr>
<td>Total</td>
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<td></td>
<td>1,460,000</td>
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<td>Salmon R. - Colston Corner</td>
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<td>93,000</td>
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<td>MVFH</td>
<td>Salmon R. - Shoup Br.</td>
<td>PahA</td>
<td>93,000</td>
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</tr>
<tr>
<td>MVFH</td>
<td>Salmon R. - Red Rock</td>
<td>PahA</td>
<td>93,000</td>
<td></td>
</tr>
<tr>
<td>MVFH</td>
<td>Little Salmon R. - Stinky Sp.</td>
<td>PahA</td>
<td>186,000</td>
<td></td>
</tr>
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<td>MVFH</td>
<td>Pahsimeroi Weir</td>
<td>USRB</td>
<td>-</td>
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<tr>
<td>MVFH</td>
<td>Pahsimeroi Weir</td>
<td>DworB</td>
<td>186,000</td>
<td></td>
</tr>
<tr>
<td>MVFH</td>
<td>Yankee Fork</td>
<td>USRB</td>
<td>496,000</td>
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<tr>
<td>MVFH</td>
<td>Squaw Cr.</td>
<td>USRB</td>
<td>186,000</td>
<td></td>
</tr>
<tr>
<td>MVFH</td>
<td>Little Salmon - Stinky Sp.</td>
<td>USRB</td>
<td>217,000</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>1,550,000</td>
<td></td>
</tr>
<tr>
<td>IPC / IDFG</td>
<td>Pahsimeroi Weir</td>
<td>PahA</td>
<td>800,000</td>
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<tr>
<td>NSFH</td>
<td>Little Salmon R. - Stinky Sp.</td>
<td>PahA</td>
<td>200,000</td>
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</tr>
<tr>
<td>NSFH</td>
<td>Little Salmon R. - Stinky Sp.</td>
<td>OxbA</td>
<td>250,000</td>
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<tr>
<td>NSFH</td>
<td>Snake R. Hells Canyon</td>
<td>OxbA</td>
<td>550,000</td>
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</tr>
<tr>
<td>Total</td>
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<td></td>
<td>1,800,000</td>
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<tr>
<td>Grand Total</td>
<td></td>
<td></td>
<td>4,810,000</td>
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</table>

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. 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.

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Stock</th>
<th>Eggs/Fry Shipped / Received</th>
<th>Inventory To Date</th>
<th>Release Goals</th>
<th>Excess Fry/ Fingerlings Released</th>
<th>Projected Smolt Releases</th>
</tr>
</thead>
<tbody>
<tr>
<td>HNFH</td>
<td>Sawtooth Weir</td>
<td>SawA</td>
<td>1,376,677</td>
<td>1/27/14</td>
<td>1,278,532</td>
<td>1,270,000</td>
<td>4.5</td>
</tr>
<tr>
<td>HNFH</td>
<td>Salmon R. - McNabb Pt.</td>
<td>SawA</td>
<td>139,998</td>
<td>1/27/14</td>
<td>136,098</td>
<td>130,000</td>
<td>4.5</td>
</tr>
<tr>
<td>HNFH</td>
<td>E. Fork Salmon R. - EFNat</td>
<td></td>
<td>69,182</td>
<td>1/27/14</td>
<td>62,069</td>
<td>60,000</td>
<td>4.5</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Stock</th>
<th>Inventory to Date</th>
<th>Additional Tags</th>
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</thead>
<tbody>
<tr>
<td>HNFH</td>
<td>Sawtooth Weir</td>
<td>SawA</td>
<td>1,376,677</td>
<td>8,587</td>
</tr>
<tr>
<td>HNFH</td>
<td>Salmon R. - McNabb Pt.</td>
<td>SawA</td>
<td>139,998</td>
<td>1,900</td>
</tr>
<tr>
<td>HNFH</td>
<td>E. Fork Salmon R. - EF Nat</td>
<td></td>
<td>69,182</td>
<td>2,200</td>
</tr>
<tr>
<td>Totals</td>
<td></td>
<td></td>
<td>1,585,557</td>
<td>22,180</td>
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</tbody>
</table>

Grand Total 5,527,027
Table 1.1c. Steelhead BY 2014 Egg box transfers in 2014

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Stock</th>
<th>Egg Box Outplants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pahsimeroi</td>
<td>Yankee Fork</td>
<td>USRB/DworB</td>
<td>500,000</td>
</tr>
<tr>
<td></td>
<td>Beaver Creek</td>
<td>PahA</td>
<td>400,000</td>
</tr>
<tr>
<td></td>
<td>Indian Creek</td>
<td>PahA</td>
<td>100,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>1,000,000</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Trap Site</th>
<th>Egg Destination</th>
<th>Stock</th>
<th>Trapping period</th>
<th>Broodstock Trapping Required</th>
<th>Number Needed to</th>
<th>Fecundity</th>
<th>Females</th>
<th>Males</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dworshak National Fish Hatchery</td>
<td>Magic Valley Fish Hatchery</td>
<td>DworB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Niagara Springs Fish Hatchery</td>
<td>PahA</td>
<td>Feb. 18 - May 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Magic Valley Fish Hatchery</td>
<td>USRB</td>
<td>Feb. 18 - May 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SBT Egg Box</td>
<td>USRB</td>
<td>Feb. 18 - May 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Magic Valley Fish Hatchery</td>
<td>USRB</td>
<td>Feb. 18 - May 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pahsimeri Weir</td>
<td>Niagara Springs Fish Hatchery</td>
<td>OxbA</td>
<td>Nov. 4 - Nov. 19</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Hells Canyon Trap (Oxbow Hatchery)</td>
<td>Niagara Springs Fish Hatchery</td>
<td>OxbA</td>
<td>Feb. 18 - May 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sawtooth and East Fork Weir†</td>
<td>Hagerman National Fish Hatchery</td>
<td>SawA</td>
<td>Mar. 23 to May 1</td>
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<td></td>
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<tr>
<td></td>
<td>Hagerman National Fish Hatchery</td>
<td>EFNat</td>
<td>Mar. 26 to May 17</td>
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<td></td>
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</table>

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 Pahsimeri 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

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Stock</th>
<th>Smolt Release Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>HNFH</td>
<td>Sawtooth Weir</td>
<td>SawA</td>
<td>1,370,000</td>
</tr>
<tr>
<td></td>
<td>Salmon R. - McNabb Pt</td>
<td>SawA</td>
<td>130,000</td>
</tr>
<tr>
<td></td>
<td>E. Fork Salmon R. - Upper</td>
<td>EFNat</td>
<td>60,000</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td>1,560,000</td>
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<td>MVFH</td>
<td>Salmon R. - Colston Corner</td>
<td>PahA</td>
<td>93,000</td>
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<td></td>
<td>Salmon R. - Shoup Br.</td>
<td>PahA</td>
<td>93,000</td>
</tr>
<tr>
<td></td>
<td>Salmon R. - Red Rock</td>
<td>PahA</td>
<td>93,000</td>
</tr>
<tr>
<td></td>
<td>Little Salmon R. - Stinky Sp.</td>
<td>PahA</td>
<td>186,000</td>
</tr>
<tr>
<td></td>
<td>Pahsimeri Weir</td>
<td>USRB</td>
<td>93,000</td>
</tr>
<tr>
<td></td>
<td>Pahsimeri Weir</td>
<td>DworB</td>
<td>93,000</td>
</tr>
<tr>
<td></td>
<td>Yankee Fork</td>
<td>USRB/DworB</td>
<td>496,000</td>
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<tr>
<td></td>
<td>Squaw Creek</td>
<td>USRB/DworB</td>
<td>186,000</td>
</tr>
<tr>
<td></td>
<td>Little Salmon - Stinky Sp.</td>
<td>USRB/DworB</td>
<td>217,000</td>
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<td></td>
<td>Total</td>
<td></td>
<td>1,550,000</td>
</tr>
<tr>
<td>NSFH</td>
<td>Pahsimeri Weir</td>
<td>PahA</td>
<td>800,000</td>
</tr>
<tr>
<td></td>
<td>Little Salmon R. - Stinky Sp.</td>
<td>PahA</td>
<td>200,000</td>
</tr>
<tr>
<td></td>
<td>Little Salmon R. - Stinky Sp.</td>
<td>OxBA</td>
<td>200,000</td>
</tr>
<tr>
<td></td>
<td>Snake R. Hells Canyon</td>
<td>OxBA</td>
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</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td>1,800,000</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
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<td>4,910,000</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Stock</th>
<th>Smolt Release Goals</th>
<th>Projected Marking</th>
<th>Adipose Fin Clip</th>
<th>No Clip</th>
<th>PIT Tag</th>
</tr>
</thead>
<tbody>
<tr>
<td>HNFH</td>
<td>Sawtooth Weir</td>
<td>SawA</td>
<td>1,370,000</td>
<td>-</td>
<td>8,600</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Salmon R. - McNabb P.</td>
<td>SawA</td>
<td>130,000</td>
<td>-</td>
<td>8,600</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>E. Fork Pah.</td>
<td>SawA</td>
<td>670,000</td>
<td>-</td>
<td>8,600</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td>1,560,000</td>
<td>1,320,000</td>
<td>1,190,000</td>
<td>8,600</td>
<td></td>
</tr>
<tr>
<td>MVFH</td>
<td>Salmon R. - Colton Corner</td>
<td>PahA</td>
<td>93,000</td>
<td>93,000</td>
<td>1,900</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Salmon R. - Shoup Br.</td>
<td>PahA</td>
<td>93,000</td>
<td>93,000</td>
<td>1,900</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Salmon R. - Red Rock</td>
<td>PahA</td>
<td>93,000</td>
<td>93,000</td>
<td>1,900</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Little Salmon R. - Stinky Sp</td>
<td>PahA</td>
<td>186,000</td>
<td>-</td>
<td>1,900</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pahsimeroi Weir</td>
<td>PahA</td>
<td>93,000</td>
<td>-</td>
<td>1,900</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DowerB</td>
<td>PahA</td>
<td>93,000</td>
<td>-</td>
<td>1,900</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yankee Fork</td>
<td>PahA</td>
<td>496,000</td>
<td>279,000</td>
<td>5,700</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Squaw Creek</td>
<td>PahA</td>
<td>186,000</td>
<td>186,000</td>
<td>1,900</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Littie Salmon - Stinky Sp</td>
<td>PahA</td>
<td>217,000</td>
<td>217,000</td>
<td>2,200</td>
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<td></td>
<td>Total</td>
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<td>1,147,000</td>
<td>186,000</td>
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<td>NSFH</td>
<td>Pahsimeroi Weir</td>
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<td>-</td>
<td>9,000</td>
<td></td>
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<tr>
<td></td>
<td>Little Salmon R. - Stinky Sp</td>
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<td>5,100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Snake R. Hells Canyon</td>
<td>OxBA</td>
<td>250,000</td>
<td>250,000</td>
<td>8,600</td>
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<td></td>
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<tr>
<td></td>
<td>Total</td>
<td></td>
<td>1,800,000</td>
<td>1,800,000</td>
<td>22,700</td>
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<tr>
<td>Grand Totals</td>
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<td>4,910,000</td>
<td>4,267,000</td>
<td>246,000</td>
<td>74,700</td>
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</tbody>
</table>
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 (USRBDworB)
- Fish Health -NC
- Fish feeding - NC
- Rearing conditions – NC
- Marking -No CWT this year.

1.3.2.8 Salmon R. Stinky Springs (USRBDworB)
- Fish Health - NC
- Fish feeding - NC
- Rearing conditions – NC
- Marking -No CWT this year.

1.3.2.9 Squaw Cr. (USRBDworB)
- 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

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>IPC / IDFG</td>
<td>Rapid River Hatchery</td>
<td>RRFH</td>
<td>RapidR</td>
<td>2,500,000</td>
</tr>
<tr>
<td></td>
<td>Little Salmon</td>
<td></td>
<td>RapidR</td>
<td>150,000</td>
</tr>
<tr>
<td></td>
<td>Hells Canyon</td>
<td></td>
<td>RapidR</td>
<td>350,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>3,000,000</td>
</tr>
<tr>
<td>LSRCP / IDFG</td>
<td>Sawtooth Weir - Integrated</td>
<td>SFH</td>
<td>USRInt</td>
<td>200,000</td>
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<tr>
<td></td>
<td>Sawtooth Weir - Segregated</td>
<td></td>
<td>USRSeg</td>
<td>1,400,000</td>
</tr>
<tr>
<td></td>
<td>Yankee Fork</td>
<td></td>
<td></td>
<td>200,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>1,800,000</td>
</tr>
<tr>
<td>IPC / IDFG</td>
<td>Pahsimeroi Weir - Integrated</td>
<td>PFH</td>
<td>PahInt</td>
<td>200,000</td>
</tr>
<tr>
<td></td>
<td>Pahsimeroi Weir - Segregated</td>
<td></td>
<td>PahSeg</td>
<td>800,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>1,000,000</td>
</tr>
<tr>
<td>LSRCP / IDFG</td>
<td>SFSR Knox Br. - Integrated</td>
<td>McFH</td>
<td>SFSRInt</td>
<td>250,000</td>
</tr>
<tr>
<td></td>
<td>SFSR Knox Br. - Segregated</td>
<td></td>
<td>SFSRSeg</td>
<td>750,000</td>
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<tr>
<td>NPT</td>
<td>Johnson Creek</td>
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<td>Total</td>
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<td></td>
<td></td>
<td>1,100,000</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td></td>
<td></td>
<td>6,900,000</td>
</tr>
</tbody>
</table>

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 your 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

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Stock</th>
<th>Eyed Eggs to Rear</th>
<th>Inventory To Date</th>
<th>Release Goals</th>
<th>Projected Smolt Release</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Date</td>
<td>Number</td>
<td>Size (FPP)</td>
</tr>
<tr>
<td>RRFH</td>
<td>Rapid River Hatchery</td>
<td>Rapid R</td>
<td>3,160,915</td>
<td>1/31/2014</td>
<td>3,124,024</td>
<td>2,500,000</td>
</tr>
<tr>
<td></td>
<td>Little Salmon</td>
<td>Rapid R</td>
<td>3,160,915</td>
<td>1/31/2014</td>
<td>3,124,024</td>
<td>1500,000</td>
</tr>
<tr>
<td></td>
<td>Hellis Canyon</td>
<td>Rapid R</td>
<td>3,160,915</td>
<td>1/31/2014</td>
<td>3,124,024</td>
<td>350,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>3,160,915</td>
<td>3,124,024</td>
<td>3,000,000</td>
<td>3,124,000</td>
</tr>
<tr>
<td>SFH</td>
<td>Sawtooth Weir - Integrated USRint</td>
<td>USRint</td>
<td>188,000</td>
<td>1/2/2014</td>
<td>180,523</td>
<td>200,000</td>
</tr>
<tr>
<td></td>
<td>Sawtooth Weir - Segregated USRSeg</td>
<td>USRSeg</td>
<td>1,856,162</td>
<td>1/2/2014</td>
<td>1,561,489</td>
<td>1,400,000</td>
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<tr>
<td>Total</td>
<td></td>
<td></td>
<td>2,044,162</td>
<td>1,935,288</td>
<td>1,800,000</td>
<td>1,933,500</td>
</tr>
<tr>
<td>SFH</td>
<td>Yankee Fork</td>
<td>USRint</td>
<td>149,822</td>
<td>1/2/2014</td>
<td>143,442</td>
<td>200,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>USRSeg</td>
<td>1,058,909</td>
<td>1/2/2014</td>
<td>834,713</td>
<td>300,000</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>1,208,731</td>
<td>978,155</td>
<td>1,000,000</td>
<td>976,400</td>
</tr>
<tr>
<td>Pah</td>
<td>Pahsimeroi Weir - Integrated PahInt</td>
<td>PahInt</td>
<td>149,822</td>
<td>1/2/2014</td>
<td>143,442</td>
<td>200,000</td>
</tr>
<tr>
<td></td>
<td>Pahsimeroi Weir - Segregated PahSeg</td>
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<td>1/2/2014</td>
<td>834,713</td>
<td>300,000</td>
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<td>Total</td>
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<td>1,208,731</td>
<td>978,155</td>
<td>1,000,000</td>
<td>976,400</td>
</tr>
<tr>
<td>SFH</td>
<td>SFSR Knox Br. - Integrated SFSRInt</td>
<td>SFSRInt</td>
<td>262,421</td>
<td>12/31/2013</td>
<td>234,149</td>
<td>250,000</td>
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<tr>
<td></td>
<td>SFSR Knox Br. - Segregated SFSRSeg</td>
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<td>Grand Total</td>
<td></td>
<td></td>
<td>7,641,725</td>
<td>7,179,064</td>
<td>6,900,000</td>
<td>7,172,900</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Stock</th>
<th>Eyed Eggs to Rear</th>
<th>Inventory To Date</th>
<th>Additional Tags</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Date</td>
<td>Total</td>
</tr>
<tr>
<td>RRFH</td>
<td>Rapid River Hatchery</td>
<td>Rapid R</td>
<td>3,160,915</td>
<td>1/31/2014</td>
<td>3,124,024</td>
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<tr>
<td></td>
<td>Little Salmon</td>
<td>Rapid R</td>
<td>3,160,915</td>
<td>1/31/2014</td>
<td>3,124,024</td>
</tr>
<tr>
<td></td>
<td>Hellis Canyon</td>
<td>Rapid R</td>
<td>3,160,915</td>
<td>1/31/2014</td>
<td>3,124,024</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>3,160,915</td>
<td>3,124,024</td>
<td>3,000,000</td>
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<td>SFH</td>
<td>Sawtooth Weir - Integrated USRint</td>
<td>USRint</td>
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<td>1/2/2014</td>
<td>180,523</td>
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<td>Sawtooth Weir - Segregated USRSeg</td>
<td>USRSeg</td>
<td>1,856,162</td>
<td>1/2/2014</td>
<td>1,561,489</td>
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<tr>
<td>Total</td>
<td></td>
<td></td>
<td>2,044,162</td>
<td>1,935,288</td>
<td>1,800,000</td>
</tr>
<tr>
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<td>Yankee Fork</td>
<td>USRint</td>
<td>149,822</td>
<td>1/2/2014</td>
<td>143,442</td>
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<tr>
<td></td>
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<td>USRSeg</td>
<td>1,058,909</td>
<td>1/2/2014</td>
<td>834,713</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>1,208,731</td>
<td>978,155</td>
<td>1,000,000</td>
</tr>
<tr>
<td>Pah</td>
<td>Pahsimeroi Weir - Integrated PahInt</td>
<td>PahInt</td>
<td>149,822</td>
<td>1/2/2014</td>
<td>143,442</td>
</tr>
<tr>
<td></td>
<td>Pahsimeroi Weir - Segregated PahSeg</td>
<td>PahSeg</td>
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<td>1/2/2014</td>
<td>834,713</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>1,208,731</td>
<td>978,155</td>
<td>1,000,000</td>
</tr>
<tr>
<td>SFH</td>
<td>SFSR Knox Br. - Integrated SFSRInt</td>
<td>SFSRInt</td>
<td>262,421</td>
<td>12/31/2013</td>
<td>234,149</td>
</tr>
<tr>
<td></td>
<td>SFSR Knox Br. - Segregated SFSRSeg</td>
<td>SFSRSeg</td>
<td>855,496</td>
<td>12/31/2013</td>
<td>812,436</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>1,127,917</td>
<td>1,141,597</td>
<td>1,100,000</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td></td>
<td>7,641,725</td>
<td>7,179,064</td>
<td>6,900,000</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Program</th>
<th>Location</th>
<th>Hatchery</th>
<th>Egg Source</th>
<th>Parent Stock</th>
<th>Green Egg Target</th>
<th>Eyed Egg 2014 Release Goal</th>
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</thead>
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<tr>
<td>SBT Egg Box</td>
<td>Dollar Creek</td>
<td>McFH</td>
<td>SFSR Seg.</td>
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<td>300,000</td>
<td>300,000</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Stock</th>
<th>Forecasted Returns</th>
<th>Trapping period</th>
<th>M/F Ratio</th>
<th>Hatchery Female</th>
<th>Hatchery Male</th>
<th>Natural Female</th>
<th>Natural Male</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRHF</td>
<td>Rapid River Trap</td>
<td>RaphidR</td>
<td>12,959</td>
<td>May-Sept.</td>
<td>1:1</td>
<td>1,059</td>
<td>1,059</td>
<td>NA</td>
<td>NA</td>
<td>2,100</td>
</tr>
<tr>
<td>RRFH</td>
<td>Little Salmon</td>
<td>RaphidR</td>
<td>278</td>
<td>May-Sept.</td>
<td>1:1</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>0</td>
</tr>
<tr>
<td>RRFH</td>
<td>Hells Canyon Trap</td>
<td>RaphidR</td>
<td>1,814</td>
<td>May-Sept.</td>
<td>1:1</td>
<td>200</td>
<td>200</td>
<td>NA</td>
<td>NA</td>
<td>400</td>
</tr>
<tr>
<td>SFH</td>
<td>Sawtooth Weir - Integrated</td>
<td>USRInt</td>
<td>NA</td>
<td>May-Sept.</td>
<td>1:1</td>
<td>15</td>
<td>15</td>
<td>35</td>
<td>35</td>
<td>100</td>
</tr>
<tr>
<td>SFH</td>
<td>Sawtooth Weir - Segregated</td>
<td>USRInt</td>
<td>4,403</td>
<td>May-Sept.</td>
<td>1:1</td>
<td>350</td>
<td>350</td>
<td>700</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SFH</td>
<td>Yankee Fork (cwt only)</td>
<td>USRInt</td>
<td>745</td>
<td>May-Sept.</td>
<td>1:1</td>
<td>50</td>
<td>50</td>
<td>0</td>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>PFH</td>
<td>Pahsimeroi - Integrated</td>
<td>PahInt</td>
<td>NA</td>
<td>June-Sept.</td>
<td>1:1</td>
<td>38</td>
<td>38</td>
<td>25</td>
<td>25</td>
<td>126</td>
</tr>
<tr>
<td>PFH</td>
<td>Pahsimeroi - Segregated</td>
<td>PahInt</td>
<td>1,656</td>
<td>June-Sept.</td>
<td>1:1</td>
<td>237</td>
<td>237</td>
<td>0</td>
<td>0</td>
<td>474</td>
</tr>
<tr>
<td>PFH</td>
<td>Totals</td>
<td></td>
<td>5,148</td>
<td></td>
<td></td>
<td>415</td>
<td>415</td>
<td>35</td>
<td>35</td>
<td>900</td>
</tr>
<tr>
<td>McFH</td>
<td>SFSR - Integrated</td>
<td>SFSRInt</td>
<td>1,517</td>
<td>June-mid-Sept.</td>
<td>1:1</td>
<td>10</td>
<td>9</td>
<td>85</td>
<td>86</td>
<td>190</td>
</tr>
<tr>
<td>McFH</td>
<td>SFSR - Segregated</td>
<td>SFSRInt</td>
<td>5,013</td>
<td>June-mid-Sept.</td>
<td>1:1</td>
<td>542</td>
<td>542</td>
<td>1,084</td>
<td></td>
<td></td>
</tr>
<tr>
<td>McFH</td>
<td>Johnson Creek</td>
<td>JohnCr</td>
<td>NA</td>
<td>June-mid-Sept.</td>
<td>1:1</td>
<td>40</td>
<td>40</td>
<td>80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>McFH</td>
<td>Totals</td>
<td></td>
<td>5,013</td>
<td></td>
<td></td>
<td>552</td>
<td>551</td>
<td>125</td>
<td>126</td>
<td>1,354</td>
</tr>
</tbody>
</table>

1 Forecast for adults only
2 These trap projections are only for natural origin returns (NORs) and integrated hatchery origin fish (HORInt)

Grand Totals: 27,368 | 2,936 | 8,640 | 2202 | 6480 | 2,492 | 2,491 | 185 | 186 | 5,354 |
Table 2.2b. BY 2014 Sp/Su Chinook Smolt Production Goals for Release in 2016.

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Release Goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>RRFH</td>
<td>Rapid River Hatchery</td>
<td>2,500,000</td>
</tr>
<tr>
<td></td>
<td>Little Salmon</td>
<td>150,000</td>
</tr>
<tr>
<td></td>
<td>Hells Canyon</td>
<td>350,000</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>3,000,000</td>
</tr>
<tr>
<td>SFH</td>
<td>Sawtooth Weir - Integrated</td>
<td>200,000</td>
</tr>
<tr>
<td></td>
<td>Sawtooth Weir - Segregated</td>
<td>1,400,000</td>
</tr>
<tr>
<td></td>
<td>Yankee Fork</td>
<td>200,000</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>1,800,000</td>
</tr>
<tr>
<td>PFH</td>
<td>Pahsimeroi Weir - Integrated</td>
<td>200,000</td>
</tr>
<tr>
<td></td>
<td>Pahsimeroi Weir - Segregated</td>
<td>800,000</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>1,000,000</td>
</tr>
<tr>
<td>McFH</td>
<td>SFSR Knox Br. - Integrated</td>
<td>250,000</td>
</tr>
<tr>
<td></td>
<td>SFSR Knox Br. - Segregated</td>
<td>750,000</td>
</tr>
<tr>
<td></td>
<td>Johnson Creek</td>
<td>100,000</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>1,100,000</td>
</tr>
<tr>
<td></td>
<td>Grand Total</td>
<td>6,900,000</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Origin</th>
<th>Transfer Site</th>
<th>Stock</th>
<th>Green Egg Goal</th>
<th>Smolt Release Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>McFH/CFH 1</td>
<td>Clearwater Fish Hatchery</td>
<td>SFSR Seg/CFH</td>
<td>750,000</td>
<td>600,000</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Likely Marking Date(s)</th>
<th>Projected Releases for 2015</th>
<th>Inventory to Date</th>
<th>Projected Marking</th>
<th>PIT Tag 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No CWT</td>
<td>CWT</td>
<td>CWT</td>
</tr>
<tr>
<td>RRFH</td>
<td>Rapid River Hatchery</td>
<td>June 11-June 25</td>
<td>2,500,000</td>
<td>1/31/2014</td>
<td>3,108,361</td>
<td>2,988,361</td>
</tr>
<tr>
<td></td>
<td>Little Salmon</td>
<td>June 11-June 25</td>
<td>150,000</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Hells Canyon</td>
<td>June 11-June 25</td>
<td>350,000</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Totals</td>
<td></td>
<td>3,000,000</td>
<td>3,108,361</td>
<td>2,988,361</td>
<td>120,000</td>
</tr>
<tr>
<td>SFH</td>
<td>Sawtooth Weir - Integrated</td>
<td>May 11-May 21</td>
<td>190,000</td>
<td>1/2/2014</td>
<td>211,115</td>
<td>170,000</td>
</tr>
<tr>
<td></td>
<td>Sawtooth Weir - Segregated</td>
<td>May 11-May 21</td>
<td>1,545,000</td>
<td>1/2/2014</td>
<td>1,760,921</td>
<td>1,435,000</td>
</tr>
<tr>
<td></td>
<td>Yankee Fork</td>
<td>May 11-May 21</td>
<td>200,000</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Totals</td>
<td></td>
<td>1,933,000</td>
<td>3,108,361</td>
<td>2,988,361</td>
<td>120,000</td>
</tr>
<tr>
<td>PFH</td>
<td>Pahsimeroi Weir - Integrated</td>
<td>May 12-May 16</td>
<td>202,000</td>
<td>2/1/2014</td>
<td>213,009</td>
<td>143,500</td>
</tr>
<tr>
<td></td>
<td>Pahsimeroi Weir - Segregated</td>
<td>May 12-May 16</td>
<td>568,000</td>
<td>2/1/2014</td>
<td>604,825</td>
<td>457,000</td>
</tr>
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<td></td>
<td>770,000</td>
<td>817,834</td>
<td>457,000</td>
<td>111,000</td>
</tr>
<tr>
<td>McFH</td>
<td>SFSR Knox Br. - Integrated</td>
<td>(June 2-6)-(July 7-11)</td>
<td>250,000</td>
<td>12/31/2013</td>
<td>266,686</td>
<td>250,000</td>
</tr>
<tr>
<td></td>
<td>SFSR Knox Br. - Segregated</td>
<td>(June 2-6)-(July 7-11)</td>
<td>750,000</td>
<td>12/31/2013</td>
<td>863,999</td>
<td>680,000</td>
</tr>
<tr>
<td></td>
<td>Johnson Creek</td>
<td>(June 2-6)-(July 7-11)</td>
<td>100,000</td>
<td>12/31/2013</td>
<td>121,490</td>
<td>120,000</td>
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<tr>
<td></td>
<td>Totals</td>
<td></td>
<td>1,100,000</td>
<td>1,251,775</td>
<td>680,000</td>
<td>120,000</td>
</tr>
<tr>
<td>Grand Totals</td>
<td></td>
<td></td>
<td>6,805,000</td>
<td>7,150,006</td>
<td>5,560,361</td>
<td>661,000</td>
</tr>
</tbody>
</table>

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

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>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Likely Release Date</th>
<th>Release Goals</th>
<th>Projected Actual Releases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total</td>
<td>Adipose Fin Clip CWT CWT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No Clip No CWT CWT No CWT</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total</td>
<td>Adipose Fin Clip CWT CWT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No Clip No CWT CWT No CWT</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Brood year</th>
<th>Release Site</th>
<th>Stock</th>
<th>Likely Release Date</th>
<th>Release Goals</th>
<th>Projected Actual Releases</th>
<th>PIT Tag</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Adipose Fin Clip</td>
<td>No Clip</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No CWT</td>
<td>CWT</td>
</tr>
<tr>
<td>NOAA - Burley Creek</td>
<td>2009</td>
<td>Redfish Lake</td>
<td>Snake R.</td>
<td>9/10</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2010</td>
<td>Redfish Lake</td>
<td>Snake R.</td>
<td>9/10</td>
<td>50</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>2011</td>
<td>Redfish Lake</td>
<td>Snake R.</td>
<td>9/10</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>250</td>
<td>301</td>
</tr>
<tr>
<td>Eagle</td>
<td>2010</td>
<td>Redfish Lake</td>
<td>Snake R.</td>
<td>9/10</td>
<td>0</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>2011</td>
<td>Redfish Lake</td>
<td>Snake R.</td>
<td>9/10</td>
<td>50</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td>205</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>250</td>
<td>506</td>
</tr>
</tbody>
</table>

### Table 4.1b. BY 2012 Sockeye Smolt Releases in 2014

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Stock</th>
<th>Likely Release Date</th>
<th>Release Goals</th>
<th>Projected Actual Releases</th>
<th>PIT Tag</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Adipose Fin Clip</td>
<td>No Clip</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No CWT</td>
<td>CWT</td>
</tr>
<tr>
<td>Oxbow</td>
<td>Redfish Lake Cr</td>
<td>Snake R.</td>
<td>5/8</td>
<td>100,000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sawtooth</td>
<td>Redfish Lake Cr</td>
<td>Snake R.</td>
<td>5/8</td>
<td>170,000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NOAA - Burley Creek</td>
<td>Redfish Lake Cr</td>
<td>Snake R.</td>
<td>5/8</td>
<td>1,300</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>270,000</td>
<td>291,300</td>
</tr>
</tbody>
</table>

### 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>
<thead>
<tr>
<th>Site</th>
<th>Stock</th>
<th>Forecast return</th>
<th>Trapping period</th>
<th>Broodstock Need</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>M:F Ratio</td>
<td>Female</td>
</tr>
<tr>
<td>Redfish Lake Creek</td>
<td>Snake R.</td>
<td>600</td>
<td>7/15 - 10/1</td>
<td>1:1</td>
</tr>
<tr>
<td>Sawtooth</td>
<td>Snake R.</td>
<td>60</td>
<td>7/15 - 10/1</td>
<td>1:1</td>
</tr>
<tr>
<td>Eagle FH</td>
<td>Snake R.</td>
<td>NA</td>
<td>NA: Captive</td>
<td>1:1</td>
</tr>
<tr>
<td>Burley Creek</td>
<td>Snake R.</td>
<td>NA</td>
<td>NA: Captive</td>
<td>1:1</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td>660</td>
<td></td>
<td>650</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Hatchery</th>
<th>Release Site</th>
<th>Stock</th>
<th>Likely Release Date</th>
<th>Release Goals for 2015</th>
<th>Projected Actual Releases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total</td>
<td>Adipose Fin Clip</td>
</tr>
<tr>
<td>Oxbow</td>
<td>Redfish Lake Cr.</td>
<td>Snake R.</td>
<td>May 2015</td>
<td>90,000</td>
<td>90,000</td>
</tr>
<tr>
<td>Sawtooth</td>
<td>Redfish Lake Cr.</td>
<td>Snake R.</td>
<td>May 2015</td>
<td>170,000</td>
<td>170,000</td>
</tr>
<tr>
<td>Springfield</td>
<td>Redfish Lake Cr.</td>
<td>Snake R.</td>
<td>May 2015</td>
<td>200,000</td>
<td>200,000</td>
</tr>
<tr>
<td>Grand Total</td>
<td></td>
<td></td>
<td></td>
<td>460,000</td>
<td>460,000</td>
</tr>
</tbody>
</table>

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.