

**Date:** January 30, 2016

**Cooperative Agreement No.:** F14AC00055

**Title:** Fish Distribution and Administration and Fish Marking  
Annual Report  
Cooperative Agreement between the U.S. Fish and Wildlife  
Service and the Oregon Department of Fish and

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### **Fish Distribution and Administration**

**Objective 1: Supervise, manage policy, administratively oversee operations, and ensure safe and timely fish delivery and liberations while cultivating a safe and productive work environment at the Irrigon, Lookingglass, and Wallowa hatcheries and associated satellite facilities, along with operations associated with fish health monitoring and treatment and fish marking.**

All components of Objective 1 were successfully accomplished with safe and timely deliveries of fish, and maintenance of a safe and productive work environment at all hatchery facilities and during all fish health and fish marking operations.

**Objective 2: Oversee facility operations with the goal of rearing sufficient numbers of fish to produce 400,000 subyearling fall Chinook smolts, and 5,720 adult Grande Ronde Basin and 3,210 Imnaha Basin spring Chinook, 9,184 Wallowa stock and 2,000 Imnaha stock steelhead adults above the project area.**

Facility operations were overseen with the following smolt releases and egg production in 2015.

#### **Fall Chinook**

**Brood Year 2014:** A total of 456,100 sub-yearlings were released into the Grande Ronde River, of which 45.5% were adipose clipped and coded-wire tagged. The smolt production goal is 400,000.

**Brood Year 2015:** These fish are currently on station at Irrigon hatchery and 400,000 sub-yearlings are expected to be released into the Grande Ronde River in June 2016.

#### **Imnaha Steelhead**

The adult return goal is 2,000 for Imnaha stock steelhead, which are released at and return to ODFW's facility at Little Sheep Creek. Goals include taking 317,000 green eggs to produce

282,200 eyed eggs (89.3% green to eyed egg survival), and then transferring the 282,200 eyed eggs to Irrigon Fish Hatchery to produce 215,000 smolts (76.2% eyed egg to smolt survival).

**Brood Year 2014:** Production was completed on February 27, 2015 with the transfer of 249,648 Innaha stock steelhead smolts to the Little Sheep Creek acclimation pond. All had adipose fins removed, and 24,566 smolts were also coded-wire tagged. No fish were LV fin clipped this year.

**Brood Year 2015:** A total of 333,600 green eggs were taken during the 2015 spawning season. 265,100 eyed eggs were transferred to Irrigon Fish Hatchery.

### **Wallowa Steelhead**

The adult return goal is 9,184 for the Wallowa stock. Mitigation goals include collecting 1,111,100 green eggs to produce 1,000,000 eyed eggs (90% green to eyed egg survival), and then transferring the 1,000,000 eyed eggs to Irrigon Fish Hatchery to produce 800,000 smolts (75% eyed egg to smolt survival).

**Brood Year 2014:** Rearing was completed on April 22, 2015 with the transfers of 864,753 Wallowa stock steelhead smolts to Wallowa and Big Canyon acclimation ponds. All fish had adipose fins removed. Of these, 26,908 were also coded-wire tagged and LV clipped. Fall-caught brood progeny were all marked with an additional right ventral clip: 52,145 fish were right ventral clipped and coded-wire tagged, and 155,510 fish were right ventral clipped but had no coded-wire tag.

**Brood Year 2015:** A total of 1,414,100 Wallowa stock eggs were taken during the 2015 spawning season, 787,400 production eggs and 626,700 fall-caught brood eggs. Wallowa Hatchery transferred 1,000,800 eyed eggs to Irrigon Fish Hatchery along with 53,900 eyed eggs and 140,000 green eggs to Lyons Ferry Fish Hatchery (WDFW).

### **Grande Ronde Basin Spring Chinook**

The LSRCP production goal is 900,000 smolts to produce 5,720 adults. A total of 1,071,429 green eggs should be collected to produce 900,000 conventional smolts based on 84% green egg to smolt survival. The Grande Ronde Safety Net component can be used to supplement production numbers for the Upper Grande Ronde River stock. Production targets include:

- Catherine Creek – 46 pairs spawned to produce 150,000 smolts,
- Lookingglass Creek – 79 pairs spawned to produce 250,000 smolts
- Lostine River – 70 pairs spawned to produce 250,000 smolts
- Upper Grande Ronde River – 78 females spawned to produce 250,000 smolts

**Brood Year 2013:** Smolts released in 2015 include:

- Catherine Creek = 146,394.
- Lookingglass Creek = 176,440.
- Lostine River = 249,637.
- Upper Grande Ronde River = 224,545. 2013 is the final year of Captive Broodstock Program smolt releases.

Fish marking by ad-clipping, Coded Wire Tag marking, or both was completed on the BY 2014 Imnaha, Lostine, Catherine Creek, and Upper Grande Ronde River stocks in August, 2015. A total of 119,843 fish (Grande Rondes), received a CWT only, 861,080 were CWT and ad-clipped and 515,832 were ad-clipped only.

PIT-tagging was completed on the BY 2014 Imnaha, Lostine, Catherine Creek, Lookingglass, and Upper Grande Ronde River stocks in October, 2015. A total of 51,299 fish received PIT tags. By stock, the number of fish receiving PIT tags was: Catherine Creek-20,947, Grande Ronde-1,997, Imnaha-20,953, Lookingglass-4,999, and Lostine River-2,403.

**Brood Year 2015:** Number of females spawned and egg take include:

- Catherine Creek = 53 females spawned yielding 233,109 green eggs and resulting in 207,199 eyed eggs, for an eye up of 88.9%.
- Lookingglass Creek = 75 females spawned yielding 262,782 green eggs and resulting in 245,745 eyed eggs, for an eye up of 94.4%.
- Lostine River = 72 females spawned yielding 318,550 green eggs and resulting in 278,521 eyed eggs, for an eye up of 88.5%.
- Upper Grande Ronde River = 85 females spawned yielding 358,688 green eggs and resulting in 321,634 eyed eggs, for an eye up of 89.7%.

### **Imnaha Basin Spring Chinook**

The current LSRCP production goal for the Imnaha River is 490,000 smolts, reared in seven raceways. Based on a 490,000 smolt production, the adult return goal above the project area is 2,340

**Brood Year 2013:** Smolts released in 2015 totaled 331,703.

**Brood Year 2015:** There were 135 Imnaha stock females spawned yielding 615,672 green eggs and resulting in 567,322 eyed eggs, for an eye up of 93.3%.

**Objective 3: Recruit, hire, develop and retain a diverse, effectively deployed and well trained staff.**

Positions were filled and employees trained as necessary to maintain an effective and well trained staff.

**Objective 4: Maintain all appropriate permits necessary for operations, including any and all ESA related items.**

All appropriate and necessary permits were maintained.

**Objective 5: Ensure and oversee appropriate maintenance of all facilities and equipment.**

Appropriate maintenance of all facilities and equipment was maintained.

**Objective 6: Manage policy and procedures to meet annual adult fish escapement and juvenile fish rearing goals, as described in a NOAA Fisheries approved HGMP.**

Policies and procedures were maintained to meet goals in HGMP.

**Objective 7: Oversee and ensure the development of an Annual Operations Plan for LSRCP Grande Ronde and Innaha Basin facilities and production in Oregon.**

The Annual Operations Plan was developed and finalized in consultation with and agreement from all co-managers.

**Objective 8: Oversee the fish marking program at LSRCP Grande Ronde and Innaha Basin facilities in Oregon.**

The fish marking program at LSRCP Grande Ronde and Innaha Basin facilities was effectively overseen.

**Objective 9: Schedule all fish transportation associated with the LSRCP Grande Ronde and Innaha Basin program in Oregon.**

Fish transportation was scheduled and accomplished safely and timely for the LSRCP Grande Ronde and Innaha basin programs.

**Objective 10: Maintain real property and personal property inventories for all facilities and equipment.**

Property inventories were maintained for all facilities and equipment.

### **Fish Marking**

**Objective 1: ODFW will develop the annual fish marking plans for LSRCP fish production, and ODFW will oversee fish marking schedules and activities.**

Developed annual fish marking plans for LSRCP fish production and oversaw fish marking schedules and activities.

**Objective 2: Develop the annual fish marking budget and Statement of Work and submit to LSRCP by June 15.**

Fish marking budget and SOW were submitted to LSRCP.

**Objective 3: Contribute to the development of the Grande Ronde and Innaha program AOP.**

Contributed to development of the AOP.

**Objective 4: Maintain equipment and recommend and implement improvements.**

Equipment was maintained and improvements implemented as necessary.