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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 2014.

Fall Chinook

Brood Year 2013: A total of 403,926 sub-yearlings were released into the Grande Ronde River, of which 50% were adipose clipped and coded-wire tagged. The smolt production goal is 400,000.

Brood Year 2014: 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 May 2015.

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 315,960 green eggs to produce

282,152 eyed eggs (89.3% green to eyed egg survival), and then transferring the 282,152 eyed eggs to Irrigon Fish Hatchery to produce 215,000 smolts (76.2% eyed egg to smolt survival).

Brood Year 2013: Production was completed on February 28, 2014 with the transfer of 240,608 Imnaha stock steelhead smolts to the Little Sheep Creek acclimation pond. All had adipose fins removed, and 25,681 smolts were also coded-wire tagged and left ventral (LV) clipped.

Brood Year 2014: A total of 310,900 green eggs were taken during the 2014 spawning season. Approximately 286,900 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 1,212,121 green eggs to produce 1,066,666 eyed eggs (88% green to eyed egg survival), and then transferring the 1,066,666 eyed eggs to Irrigon Fish Hatchery to produce 800,000 smolts (75% eyed egg to smolt survival).

Brood Year 2013: Rearing was completed on April 18, 2014 with the transfers of 839,092 Wallowa stock steelhead smolts to Wallowa and Big Canyon acclimation ponds. All fish had adipose fins removed. Of these, 129,657 were also coded-wire tagged and LV clipped. Fall-caught brood progeny were all marked with an additional right ventral clip: 103,856 fish were right ventral clipped and coded-wire tagged, and 78,361 fish were right ventral clipped but had no coded-wire tag.

Brood Year 2014: A total of 1,128,500 Wallowa stock eggs were taken during the 2014 spawning season, 574,600 production eggs and 553,900 fall-caught brood eggs. Wallowa Hatchery transferred approximately 1,250,600 eyed eggs to Irrigon Fish Hatchery.

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 2012: Smolts released in 2014 include:

- Catherine Creek = 138,370
- Lookingglass Creek = 251,780.
- Lostine River = 233,170.
- Upper Grande Ronde River = 241,169. 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 2013 Imnaha, Lostine, Catherine Creek, and Upper Grande Ronde River stocks in August, 2013. A total of 116,416 fish (Grande Rondes), received a CWT only, 715,194 were CWT and ad-clipped and 305,007 were ad-clipped only.

PIT-tagging was completed on the BY 2013 Imnaha, Lostine, Catherine Creek, Lookingglass, and Upper Grande Ronde River stocks in October, 2013. A total of 48,223 fish received PIT tags. By stock, the number of fish receiving PIT tags was: Catherine Creek-20,971, Grande Ronde-2,002, Imnaha-20,957, Lookingglass-1,992, and Lostine River-2,301.

Brood Year 2014: Number of females spawned and egg take include:

- Catherine Creek = 44 females spawned yielding 188,435 green eggs and resulting in 170,309 eyed eggs, for an eye up of 92.6%.
- Lookingglass Creek = 82 females spawned yielding 324,484 green eggs and resulting in 312,682 eyed eggs, for an eye up of 96.4%.
- Lostine River = 74 females spawned yielding 324,484 green eggs and resulting in 312,682 eyed eggs, for an eye up of 93.9%.
- Upper Grande Ronde River = 68 females spawned yielding 257,706 green eggs and resulting in 240,230 eyed eggs, for an eye up of 94.3%.

Imnaha Basin Spring Chinook

The current LSRCP production goal for the Imnaha River is 420,000 smolts, reared in seven raceways. The NEOH long-term goal will be to produce 490,000 smolts. Based on a 420,000 smolt production, the adult return goal above the project area is 2,340.

Brood Year 2012: Smolts released in 2014 totaled 346,702.

Brood Year 2014: There were 140 Imnaha stock females spawned yielding 621,831 green eggs and resulting in 575,951 eyed eggs, for an eye up of 94.2%.

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. Positions filled this year include the Lookingglass Fish Hatchery Manager and a Fish and Wildlife Technician and a Maintenance Repair Worker at Irrigon Hatchery.

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 Imnaha 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 Imnaha Basin facilities in Oregon.

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

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

Fish transportation was scheduled and accomplished safely and timely for the LSRCP Grande Ronde and Imnaha 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 Imnaha 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.