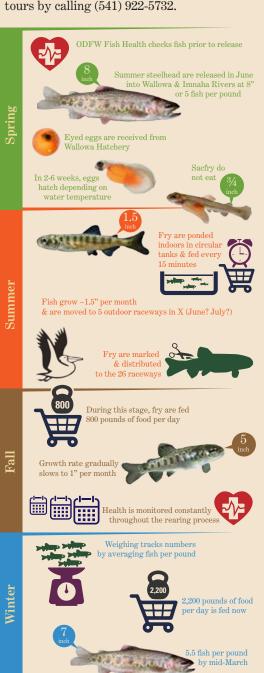




## **Irrigon Fish Hatchery**

Open daily 8 to 4. Arrange for guided group tours by calling (541) 922-5732.





## Of Eggs and **Baskets**

Don't put all your eggs in one basket. Is a phrase commonly attributed to Miguel de Cervantes in his 1605 novel Don Quixote. This wisdom goes back millions of years in the case of Columbia Basin salmon. These fish have never put their eggs in just one basket. Rich diversity across many rivers, and across the seasons is their strength. One of the breakthrough moments in salmon/ steelhead management was recognizing this:

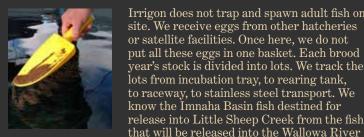
In the Conservation of any natural, biological resource it may, I believe, be considered self-evident that the population must be the unit to be treated. By population I mean an effectively isolated, self-perpetuating group of organisms of the same species regardless of whether they may or may not display distinguishing characters and regardless of whether these distinguishing characters, if present, be genetic or environmental in origin. Given a species that is broken up into a number of such isolated groups or populations, it is obvious that the conservation of the species as a whole resolves into the conservation of every one of the component groups; that the success of efforts to conserve the species will depend, not only on the results obtained with any one population, but with the total of individuals in the species that is contained within the populations affected by the conservation measures.

---Willis Rich, U.S. Fish Commission, after studying Columbia Chinook from 1927 to 1939

> The Lower Snake River Compensation Plan took Rich's discovery to heart. The 11 hatcheries and 17 satellite LSRCP facilities are spread across the major tributary systems of the Lower Snake Basin. You can think of Irrigon as helping with the northeast Oregon "egg basket."

> Here we propagate the effectively isolated, self-perpetuating population of steelhead that return to specific stretches of the Imnaha and Grande Ronde basins. The fall Chinook we raise are release in the Salmon River, an Idaho tributary; and, we are reintroducing these fish to the Grande Ronde River, once part of their historic range.

Diversity is also temporal. We release steelhead throughout the month of April. For example, there may be a release at Wallowa Hatchery both at the beginning and end of April, one at Big Canyon Trap and another at Little Sheep release site.



Finely tuned nutrients arow healthy fish.

**Healthy Fish** from Egg to Release

All eggs brought to this facility are surface sanitized in buffered *iodophor*, an iodine based disinfectant. But, our job as stewards of fish health has only begun. Healthy fish is the goal, and moving water is key. A constant flow of cold clean water through incubation trays, tanks (approx. 40,000 per tank), and raceways flushes away potential build up of disease agents. If the water stops flowing, alarms sound and staff come running.

Irrigon does not trap and spawn adult fish on

site. We receive eggs from other hatcheries

put all these eggs in one basket. Each brood

year's stock is divided into lots. We track the

release into Little Sheep Creek from the fish

or satellite facilities. Once here, we do not

lots from incubation tray, to rearing tank,

and Grande Ronde Basin. We even know

the fish for the Wallowa River separately

by where they will be released. They are

released at both Big Canyon and Wallowa

Hatchery.

Marking Fish Aids **Management** 



PassiveIntegrated Transponder (PIT) tags, injected with a large needle. aid in tracking hatchery fish.

Adipose fin clipping simply helps us decipher a hatchery fish from a natural fish. CWT (coded wire tags) are inserted in to the snouts of a percentage of fish released that identify its origin. They are a tag as small as mechanical pencil lead that have to be read under magnification. They have a code that ties back to the agency releasing the fish, stock of fish, release location, and the brood year released.

An even smaller percentage of fish released receive a PIT tag. Which is a micro chip that can be scanned at arrays anywhere they are installed. This allows for real time data to observe migration, estimate mortality, estimate returns, etc...

The file recorded from a PIT tagged juvenile will have the same information as a CWT but with finer details like, weight, length, and date tagged, etc.

A Coded Wire

