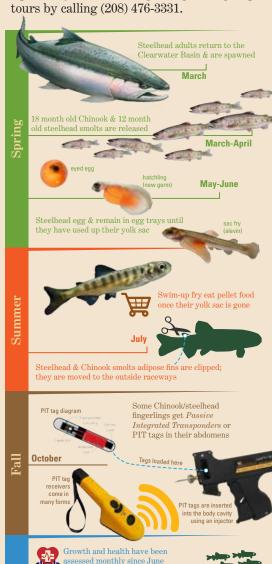


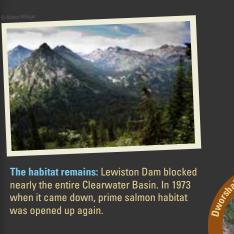


Clearwater Fish Hatchery

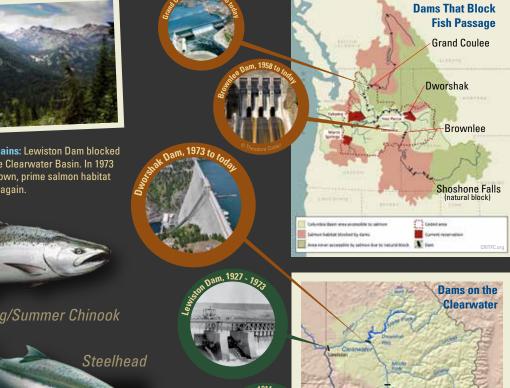
Open daily 9 to 3. Arrange for guided group tours by calling (208) 476-3331.



Benchmark weights & lengths









Internal GPS

Our Summer Chinook migrate 1.000 miles from the northern Pacific, returning with pinpoint accuracy to our weir on the Lochsa River.

First, they dead reckon across a featureless ocean using magnetism. Small magnetite particle chains in the fish allow alignment relative to the earth's geomagnetic field. Specialized nerve receptors monitor tiny shifts in the fish's own magnetic field in relation to the planet's. Coupled with the sun's position and patterns of polarized light in the sky, the salmon navigates, not randomly, but directly to the Columbia River.

Once in the river's estuary, magnetism gives way to smell. Like living spectrometers, salmon detect extremely liluted particles. Adult fish smell their way home following a chain of chemical signposts imprinted on their outbound journey as juveniles. Their olfactory-brain leads them "home," a migration strategy nillions of years old.

Blocking Passage

But, what if the way home is closed? Starting in 1927, passage into the Clearwater River was blocked by the Lewiston Dam. Every salmon run on the river went extinct. Eventually in 1973 Lewiston Dam came down and Dworshak Dam went up, re-opening the Middle and South Forks of the river as well as two miles of its North Fork.

> Dworshak Dam went up as the last of four new Lower Snake River dams neared completion. In 1991, Clearwater Hatchery began raising steelhead and spring/summer Chinook salmon to replace losses due to those dams as part of the Lower Snake River Compensation Plan. The hatchery reintroduced fish where they'd disappeared.



Spring Chinook can be very large. A hatchery worker takes a break from spawning activities to hold up this impressive male.

Pacific States

Commission

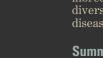
mark hatchery

fish for various

can be tracked.

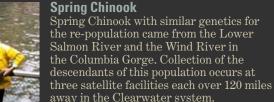
programs so they

Marine Fisheries



run of Chinook salmon was present in the Clearwater River basin prior to the with the first smolt releases in 2011 in Crooked River, a tributary of the South releases were relocated to the Lochsa River at the Powell satellite facility in 2014. The goal of the program is to use

Working with the Nez Perce tribe, the goal is to create a locally adapted run, and the Crooked River satellite facility is in just the right place. Incubated and reared at Clearwater, summer Chinook are released into the Powell River. Once established in the Powell, the summer run will be spread out into more river miles on the South Fork Clearwater and Selway Rivers. Eggs will stop coming from McCall when the



Spring Chinook migrate to Idaho as early as March and as late as September. Adults trapped at Red and Crooked River are transported throughout the summer to the hatchery. Trapping, holding, and spawning activities happen on site at the Powell satellite facility. The green or "water hardened" eggs are transported from Powell to the hatchery in special bags and

In August and September, the Clearwater staff spawns these Chinook – one female to one male, taking steps to prevent inbreeding problems and insure genetic diversity. Females with bacterial kidney disease or poor quality eggs are culled.

Summer Chinook

There is an ecdotal evidence that a summer construction of Lewiston Dam. Following extirpation, IDFG established a summer Chinook program at Clearwater Hatchery with eggs sourced from the South Fork Salmon River. The program was initiated Fork Clearwater River. The program was unsuccessful in Crooked River and smolt localized returns to reestablish Summer Chinook in the Clearwater Basin to provide ecosystem and fishery benefits from this previously extirpated stock.

locally adapted broodstock is dependable





Steelhead fishing boosts local Idaho economies in a muriad of ways.

B-run Steelhead

The Clearwater Fish Hatchery utilizes anglers to collect a locally adapted broodstock on the South Fork of the Clearwater River. 843.000 steelhead are raised at the hatchery and released back into the South Fork. The hatchery also incubates Dworshak B-run eggs to eye up for Magic Valley Fish Hatchery.

Smolting and Release

The hatchery needs to release juvenile Chinook and steelhead before they imprint on hatchery water. They need to imprint on "home" streams in the Clearwater system. Using a variety of acclimation and direct release schedules, we truck spring Chinook and young steelhead to their respective release sites.



This healthy steelhead smoltwas no accident. The science of fish culture makes for viable

When proper size, age, the sun's location in the sky, and day length align, physiological changes cue the juvenile migration to saltwater. Called smolts, they imprint the 600-mile journey on their brains, especially the olfactory, like a road map. At the same time their kidneys and gills are changing to saltwater mode, and they venture into the Pacific Ocean to grow large. In three to four years, give or take, they return home. Some will be trapped as hatchery broodstock. Some will be allowed to spawn naturally. Either way, the cycle begins

A combination of many things created the extinction or near extinction of salmon and steelhead in these rivers. With guidance from multiple agencies, tribes and the public, LSRCP's goal is to recreate a strong fish run allowing sport and tribal fisheries are being realized.

