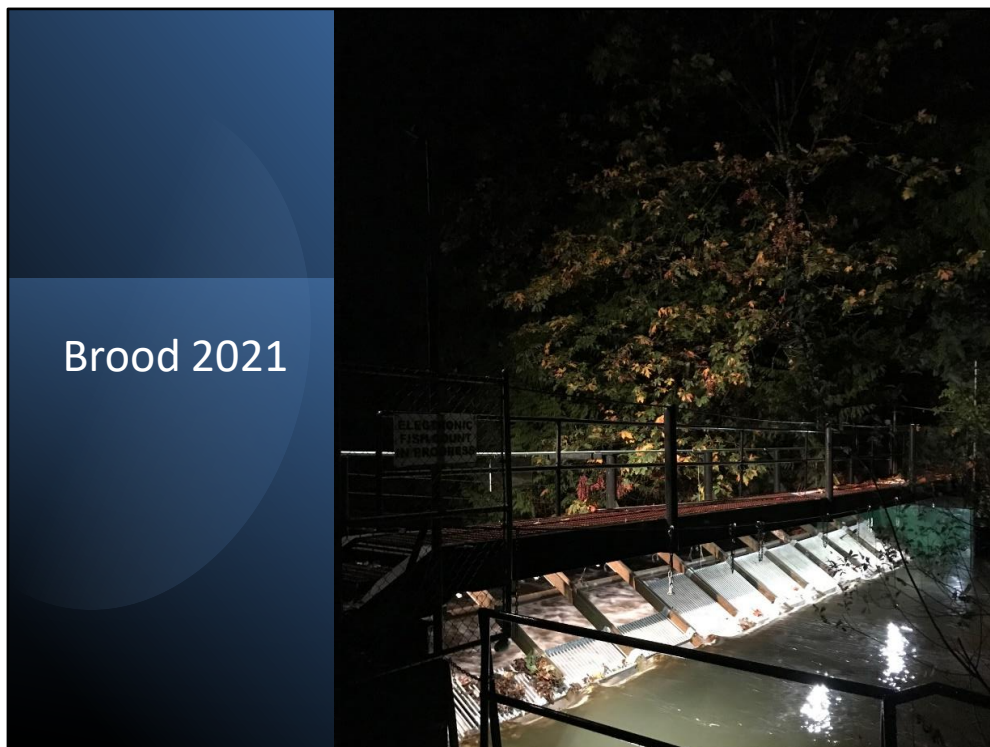




Each year our organization carefully plans out what we need to achieve in order to meet our goal of enhancing salmon safely, efficiently and effectively . Our plans includes fish production, stewardship of the resource, education and awareness, and maintenance of equipment and infrastructure. Sometimes it also includes research and development of new technologies, and often capital projects.

We have again been fortunate to receive thousands of hours of volunteer time in all areas of our operations.

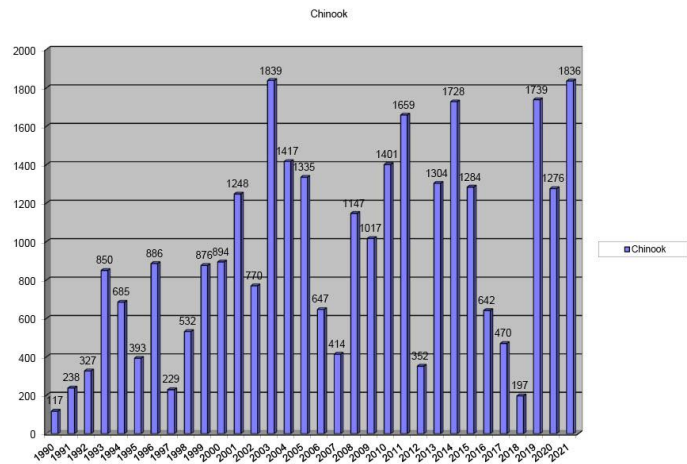


Like all Brood seasons, 2021 came with its challenges. With the pandemic in decline we were able to reincorporate our volunteer workforce and re engage our community within our salmon enhancement programs. The hiring of Tesarla Johnson marked the first time in 20 years we had a fourth staff member.

Multiple flood events that exceeded 75 cubic meters per second of flow threatened the safety of our brood collected and put staff in a tough spot for several days where our crew slept onsite in order to keep intakes open for flow to the brood inside the Alex Dobler Salmon Centre.

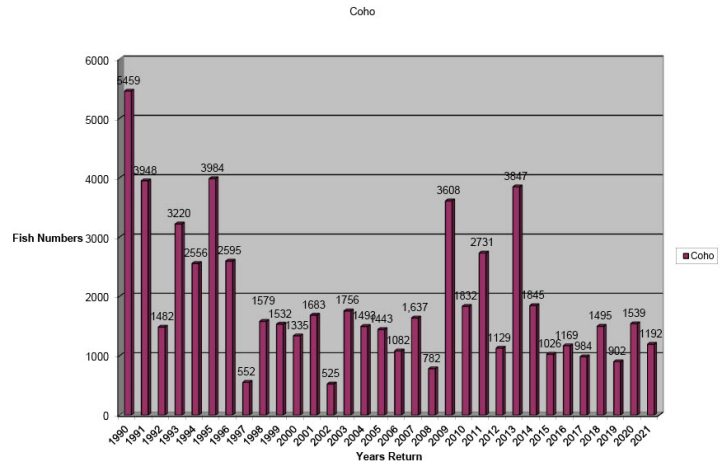
Night operations were also necessary so that we could maintain our counting fence and keep the returning fish moving. The counting fence provides an accurate count and allows us to be able to catch fish for use in our brood stock.

Chinook Returns



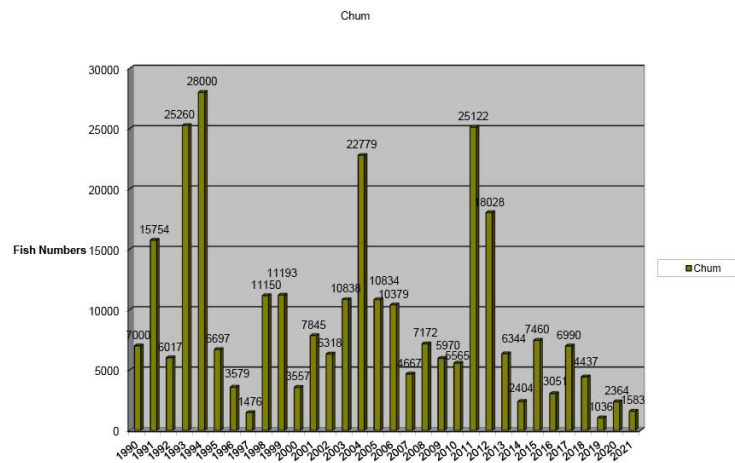
Chinook numbers reached 1276

Coho Returns



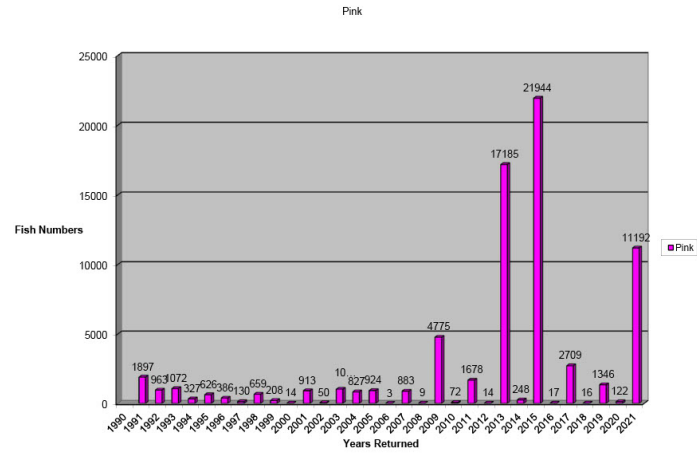
Coho returns were 1539.

Chum Returns



Chum numbers remained low at 1583

Pink Returns



Pink numbers 11 192

Incubation



During the incubation phase of production we carefully enter the incubators and remove mort's and egg shells that pose a threat to the survival of the eggs. It is a very active and delicate process.

We can generally average a survival rate in the 90 percentile. This past year was no different.



Rearing

Each week we sample every rearing unit to check on fish growth. Feed rates are impacted by the size of the fish and the water temperature.

The rearing cycle lasts about 6 months. Rearing typically stretches from December through May.

We rear fish at both of our hatcheries that include 46 rearing units that require feed and cleaning 7 days a week. Volunteers play a significant part in this phase of our production cycle.

Our staff carry out many transports between hatcheries.



Loading for Transport

The loading of fish is done by use of a seine net and a fish pump. The procedure quick, efficient, and very easy on the fish.



Chinook Releases

After an imprinting rearing cycle at our Duck Lake Hatchery we carry our releases. Releases for the 2021 brood cycle (spring 2022) included

Chinook-845 515 92% survival

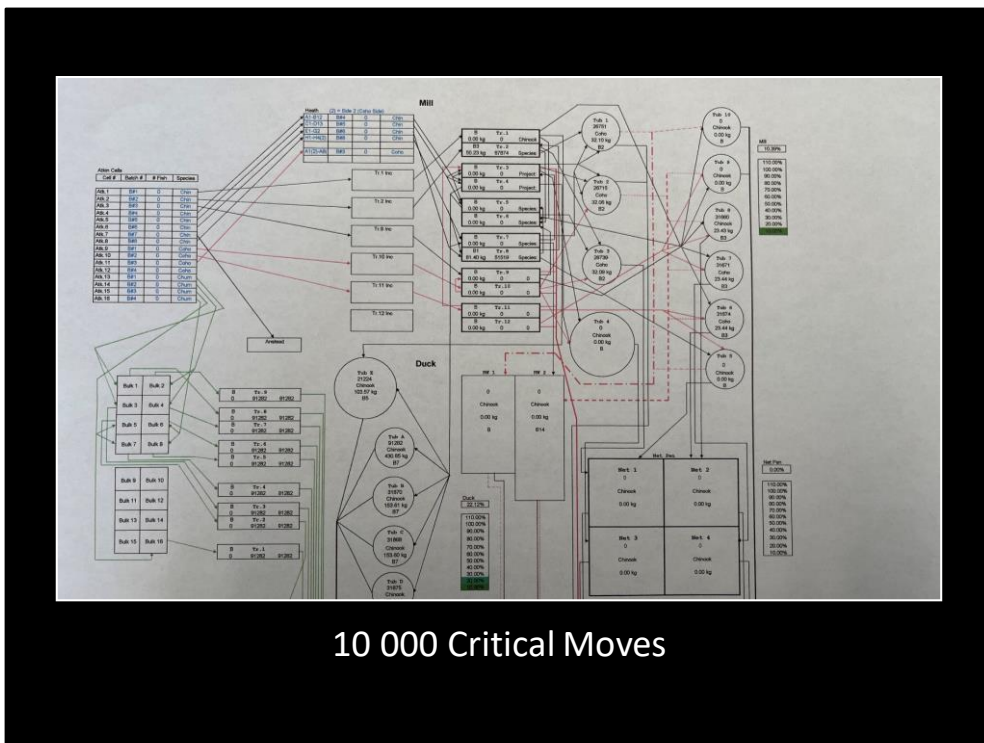


Coho Releases

Coho- 296 297 92% survival



Chum- 296 386 95 % survival
5500 k Willingdon
290 886 Lang



Just for perspective- 2021 Brood cycle production year

Brood Assessment days-112

Incubation days-173

Rearing Days-147

Total Production Days(with overlap)-432

Eggtakes-11

Incubator Pulls 3000

Standpipe Pulls-5000

Intakes Cleaned/Checked 2000 (2@Mill, 3@Duck, 1@ Lang)

Transports-38

Releases-13

Avg survival rate-93%

Days without production -74 days(countdown before new production cycle begins)

Environment/ Water Monitoring



Our water monitoring program puts us out in the watershed on a biweekly basis measuring and documenting information such as flows, temperatures, and turbidity readings.

We also maintain continuous water temperature recorders that are planted at strategic sites around our watershed.

We have a continuous water monitoring station at the mouth of Lang Creek located at the Alex Dobler Salmon Centre. It collects information on water parameters every fifteen minutes 24 hours per day, 7 days per week.

This information is compiled annually into a report that is available on our website.

The data is also used to manage our brood stock collection operations in the fall.

Our fish depend on the quality, quantity and the timing of the water. Keeping our finger on the pulse of our watershed is one of our critical success factors.

Our continuous monitoring station at Lang was replaced this year as the equipment had stopped working.



Salmon Education

With resources obtained through donations and the use of the PRSS educational platform [Salmoneducation.org](https://salmoneducation.org) and our team carried out our salmon education program and stewardship activities.

Our success was measurable and with that proven success we have plans for further program growth in the coming year.



Our success was measurable and with that proven success we have plans for further expansion in the coming year.

A quick look at our measurable success-

2000+ program participants, up 100% • Views/participation from Canada, USA, South Korea, Germany, Mexico, Alaska, and several other countries. Strong engagement across entire Province including feedback from other DFO community advisors offering their encouragement. 3 new Education incubator units in use in Powell River . A salmon egg hatching "watch me hatch" live stream running in elementary and high school hallway monitors • Four schools engaged, Edgemoor, Kelly Creek, Brooks, James Thompson, Assumption , Ecole Cote, Christian School, Westview elementary, and Ripple Rock. • Two newspaper features on Salmon Expo and Public Library Display.

Our efforts in the area of stewardship and education were recognized with us receiving several community awards. Fortis, Telus, and 100 Women Who Care made donations to our program in recognition of our well rounded efforts and community engagement.



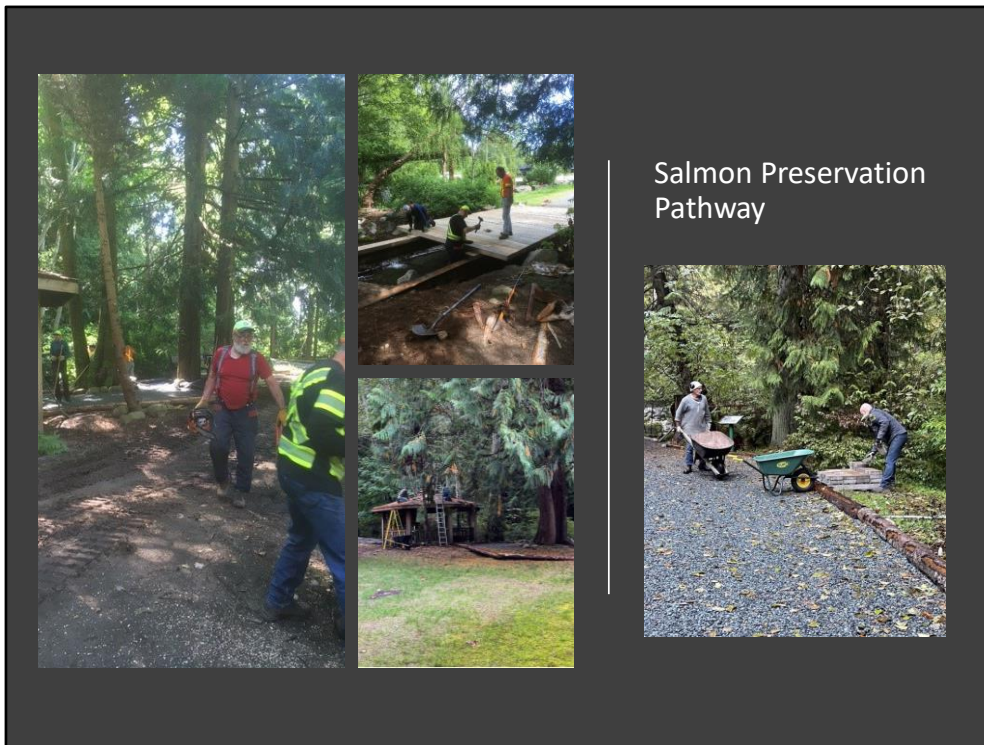
Duck Lake New Rearing Structure

The Powell River Salmon Society received funds from the Powell River Community Forest to upgrade the Duck Lake Hatchery again in the summer of 2021. The old rearing building was removed and a new post and beam structure was added.

With help from the Pacifica Salmon Foundation, The Community Forest, Brookfield Power, and many private donations we have made great improvements at our Duck Lake Hatchery in the past five years.

These include:

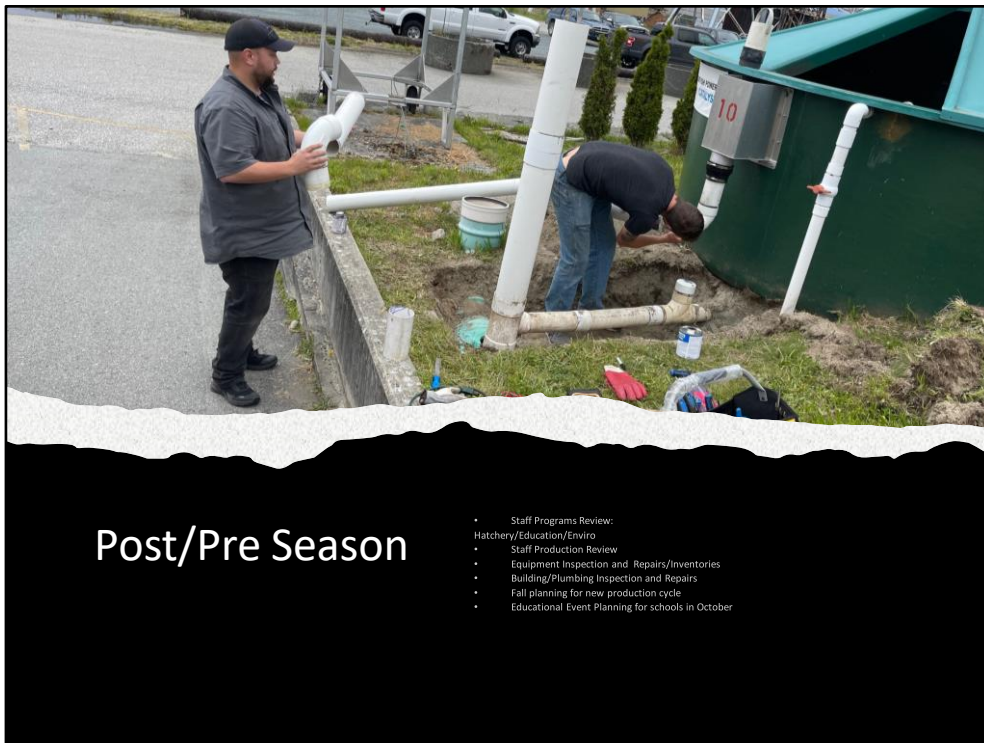
A new intake, Two new pipelines, a new water distribution tower, replacement of all supply valves, the addition of a small building to secure our main supply valves, security fencing and camera's, fiberglass repairs to the rearing troughs, a new roof on the hatchery, and the new rearing building. This was a massive effort that we are very thankful for the organizations that made these improvements possible.



With help from our community and lead by volunteers The Powell River Salmon Society now has an inclusively accesible pathway at Lang Creek. The Salmon Preservation Pathway leads visitors on a self guided tour to have a glimpse into the habitat of salmon.

Donor recognition bricks are incorporated into the pathway. This effort be a long term fundraiser of our newly formed Salmon Preservation Foundation (SPF).

Our new Foundation will be responsible for funding the future operations of the Powell River Salmon Society. All donations work in perpetuity.



There is never a shortage of cleaning disinfecting, and repairs at our hatcheries and brood facility.

After our production cycle wraps up and we sit fallow it is important to get cleaned up and make any necessary repairs before the new production cycle begins. Brood Operations begin in about two months !!

With 46 rearing units, 292 incubators, header tanks, drains, transport tanks, filters, intakes and all of the supporting equipment in three different geographical areas there is massive cleanup and inspection that happens before and after each production cycle at our hatcheries.

Our volunteers help us immensely in this area of our operations.

Looking Forward

- Salmon Preservation Foundation
- Salmon Preservation Pathway, Tide Guide, Winter Raffle
- Growth of Salmon Education Program
- Growth of Stewardship, growth of our team/volunteers
- Increase depth and Continued evolution of our organizations
- Projects-SPF Pathway, Lang Siding Project, Lang Intake Project, Duck Fiberglass Project, Rotary Fence Project



Thankyou to our program supporters and our volunteers. Our team is always adapting and improving. Progressively looking for solutions and working together towards meeting our goals and objectives.

Stay Safe!