



Quarter 3 2020 -

Powell River Salmon Society



Lang Fish Returns

Coho-1539

Chinook-1277

Pink-122

Chum-2364

Sea Run Cutts-6



Incubation

Original Chinook-923 044
Remaining- 851 301 92% survival

Original Chum- 800 351
Remaining- 779 217 97% survival

Original Coho-320 452
Remaining- 308 306 96% survival



A long brood season with a quick transition into the incubation room has us now into ponding and rearing of our first Chinook.

Water temperatures at the Mill are now 6 degrees Celsius and 4 degrees Celsius at the Duck Lake Hatchery.

The Alex Dobler Salmon Centre now sits fallow post brood production. We are now beginning to plan for some off-season maintenance.



Our team has its work cut out in the coming months with further incubation and the subsequent rearing production cycle that will run us through the rest of this fiscal year and into the next.



We have learned that the Powell River Community Forest has agreed to support our request for funding to continue our building upgrades at Duck Lake Hatchery.



Specifically, the roof structure that protects some

of our rearing containment. This is a continuation of this past summers main building roofing and rearing trough repair that was also supported by the Community Forest.

As we move into the fourth quarter, we will continue our operational fundraising efforts as well as raising funds for our Salmon Preservation Fund. The fund continues to grow thanks to the efforts of our fundraising team, donors, and specifically our Tide Guide Team. Kerr and Angela Bell have worked hard at the evolution of our Tide Guide Product. We have been extremely fortunate with our overall program support this year and the Tide Guide is the foundation of our fundraising platform.

Our newly adapted educational program is currently under review as to future direction. Sponsorship has been strong for our program. The livestream has been a major hit and will be a cornerstone for years to come. The expectation of our program for the new year is further growth.



A concerted effort with laser like focus on participation and measurable results will remain to be the building blocks of the program going into 2021. We are currently working with educators at multiple levels to make sure we deliver the best possible result.

We are continuing the testing stages with our new micro in class educational-incubator (EDU-INC). After successful level 1 testing we have moved operational units from the hatchery into two locations for level 2 testing.

Kelly Creek Community School and the Powell River Library are now host to what we believe is the next generation of in class incubators for the purpose of measurable educational results pertaining to the life of salmon. Due to COVID-19 a no contact drop off was used to deliver the units.

Our EDU-INC units are vastly different to what the rest of the industry works with. We have downsized from 20 to 30 gallons of water, tank, substrate, insulation, and a cumbersome chiller unit to one gallon of water, a small amount of substrate and a micro chiller unit.

To provide an idea in terms of footprint, both physically and environmentally, our micro chiller unit measures approximately 4 inches square and weighs a little over a pound. The unit, unlike the cumbersome units (24 inches in length, 25 pounds) commonly used within the industry do not contain the dangerous and environmentally damaging chemical freon. Our system only uses green renewable energy. The overall footprint of our EDU-INC unit is just under one cubic foot and weighs roughly 10 pounds including the water. The industry standard unit taking up a whopping 8 cubic feet and weighing in at a cumbersome 200-350 pounds with water. In addition, in the unlikely event of a breach in the system, the potential for damage would be far less with the one-gallon capacity of the EDU-INC unit

compared with the 20- to 30-gallon capacity of the other setup.

In contrast to the old form of in class incubators our unit is also “viewable” at all times, not covered up by unnecessary insulation. The edu-inc platform probably also uses less electricity as we are chilling a lot less water.

We owed it to our volunteers (ease of use), educators (takes up far less space) our community, and our environment to improve on what was previously available.

We are confident that our new Powell River EDU-Inc system will finish level 2 testing early in the new year and we will move into final testing to determine capacity after that. It has been a huge success and we look forward to building on it in 2021.

Please visit our website to keep up with our activities. There is more information below on some of our significant milestones for Q3.

Happy New Year!

October

- ✓ Counting fence operations
- ✓ Accumulation of broodstock for pending Eggtakes
- ✓ Turing of Inventory to check fish for ripeness
- ✓ Eggtakes with production taken to our Mill Hatchery
- ✓ Completion of Chinook and Chum Eggtakes/production targets met
- ✓ Maintaining counting fence, video monitoring and counting equipment, intakes
- ✓ Incubation operations commence
- ✓ Shocking, picking, repicking, transferring to eggs to secondary incubation
- ✓ First hatch of Chinook
- ✓ Water sampling the Lang watershed for water quality program
- ✓ Hatch a salmon livestream, zoom dissection and teacher engagement
- ✓ Multi website development and social media communications
- ✓ beta version class incubator level 1 testing

November

- ✓ Coho Eggtakes began and the eggs are in primary incubation at the Mill
- ✓ Chinook 100% hatched and are in secondary incubation at the Mill
- ✓ Chum are all transferred to secondary at Duck Lake
- ✓ Coho zoom dissections
- ✓ Maintaining Lang intake for Coho brood, pipeline, and spawning channel management
- ✓ Water sampling the Lang watershed for water quality program
- ✓ Hatch a salmon livestream, zoom dissection and teacher engagement
- ✓ Launch of salmoneducation.org, beta version class incubator level 2 testing
- ✓ Multi website development and social media communications

December

- ✓ Coho Eggtakes complete. Production target reached
- ✓ Ponding of our first Chinook at the Mill Hatchery, remainder in secondary incubation at the Mill Hatchery
- ✓ Chum in secondary incubation at Duck Lake Hatchery



SALMON PRESERVATION FUND

Created to take on the task of generating, growing and managing funds in perpetuity to ensure the future of the Powell River Salmon Society and a thriving community hatchery.

You can help! DONATE NOW

Visit prsalmon.org or prspf.org,

drop off your donation to First Credit Union

or mail it to:

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