

SEHAB update Kevin Ryan Feb. 2024

North Shore, Port Moody and Maple Ridge
DFO CA Brian Smith (Port Moody, Maple Ridge)
DFO CA Gillian Steele (North Shore)

North Shore (CA Gillian Steele)

Seymour Hatchery

- Good Returns in 2023
- One Chinook found spawning above the canyon
- Low water levels very few pinks were able to access system
- Moved 100 pair of coho above reservoir
- Holding at hatchery
- Steelhead 27,000 summer run 3500 winter run
- 160,000 pink (alevin stage) from Chilliwack. Survival 89% so far
- 290,000 chum (alevin stage)
- 53 pair of coho spawned aprox. 100,000 eggs
- Working with MetroVan and DFO to increase habitat at Junior Creek

Any issues that are affecting groups and their projects that are related to other agencies.

Seymour Salmonid Society has started a project to improve their accessibility for disabled individuals. Pat Dennett who did similar project work at Mossom Hatchery will be the special consultant on this project.

North Shore Streamkeepers

1. Mosquito Phase 2 Design – Planned August 2024
 - a. Continuation upstream from Phase 1 – 2020
 - b. 150M of stream, 120 logs and 240 boulders
 - c. 23 Engineered Log Jams
 - d. \$439,250 budget
 - e. 50% funded at present, **actively seeking additional funding**

Morten Creek

Nil

Port Moody (CA Brian Smith)

Noons Creek

Noons is moving ahead with plans to make repairs to their earthen rearing pond, they are looking at a couple possible habitat projects this summer and we are also investigating options

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to increase water flow to the hatchery and habitat projects and investigating the feasibility of a well.

Mossom Creek hatchery

Community Events:

Open House every Sunday: Average # visitors 30-40

Production:

- Chum 39,000
- Coho 12,000
- Pink 80,000

Total: 131,000

A problem this winter with fungus infection in chum, which had to be treated by DFO. Was successful but we did lose some eggs. This was not isolated to Mossom and the theory is due to drought conditions caused serious stress on salmon spawners.

Coho tagging Phase 2

Final Results of our tagging pending publishing in scientific journal by Prof Scott Hinch: Majority of Coho remained in the eastern part of Burrard inlet (Port Moody) longer than originally thought. High coho mortality released into Burrard inlet caused by many issues, pollution, predation, bright lights from terminals (Centerm, Vanterm, Lynnterm), 2nd narrow bird nesting. We estimate approx 20% made it to Indian Arm, 2nd Narrows, and 10% reported at Lions Gate and beyond.

2024 Phase !! project we will be using PIT Tagging with UBC Prof. Scott Hinch. Kick off meeting UBC PHD student Zachary Sherker, Brian Smith and Technical Advisor Eric Kukulowicz plus several Mossom volunteers held Jan 25 to scope out the project. 4000 coho smolts will be tagged Zach will build antenna array in the lower portion of Mossom Creek. Plan design is to split up the coho smolts release into 3 different groups. All tags from each group will be recorded and when returns come back we hope to see clear evidence of which release location is best. Team agreed on releasing 1/3 in the creek, 1/3 in sea pen, 1/3 at DFO research facility West Vancouver. Cost \$2.00 per tag (\$8000) and \$10-50,000 for antenna and computer equipment. Goal is to improve release survival. This is a long-term project we plan on doing this for the next 4-5 years. Brian Smith DFO is very interested in this study and considers this a pilot project. This hopefully will validate the anecdotal information of stray returns happening.

In second year, plan will be building a second antenna array in Noons Creek to see if coho released in Mossom actually return to Noons. This project could be expanded to multiple locations and will provide invaluable data on returning salmon.

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Maple Ridge

Alouette River Management Hatchery (ALLCO)(ARMS)

1. Any issues that are affecting groups and their projects that are directly related to DFO.

No

2. Any positive things that are directly related to DFO.

PSSI funds for redeveloping the well they will be looking for significant funding in 2024 for additional expenditures required.

3. Any things coming up that DFO should know about. No

4. Any issues that are affecting groups and their projects that are related to other agencies. No

Kanaka Creek (KEEPS) - Bell Irving Hatchery

1. Any issues that are affecting groups and their projects that are directly related to DFO.
No

2. Any positive things that are directly related to DFO.

They appreciate funds from PSSI for rebuild of incubation room. They are looking for additional significant funds in 2024 for their rearing ponds

3. Any things coming up that DFO should know about. No

4. Any issues that are affecting groups and their projects that are related to other agencies. No

Community events:

Production: On target for normal releases

Overall Comment: All hatcheries are very happy with PSSI funding support as well as availability of CA's and Tech's.