



Creative Salmon Company Ltd.



Clayoquot Sound, Tofino, BC, Canada



Presentation

- About Creative Salmon
 - Sustainable Development
 - Employees, Community
 - Environment, Fish Health
 - Addressing the issues
- Creative Salmon in the Yukon
 - 15 Year History
 - Our Activities
 - Mutual Benefits



About the Company

- Established in 1990
- Creative Salmon is a Canadian owned and operated company.
- We are one of the smallest salmon farming companies in the world.
- High Quality Salmon
- Organic Certification.



Creative Salmon Company Ltd.

Pacific Organic Seafood Association. (POSA)

- Developed Organic standards for growing Pacific Salmon
- No antibiotics or hormones
- Only indigenous species
- Concern for Fish Welfare
- Sustainable Farming



Creative Salmon Company Ltd.

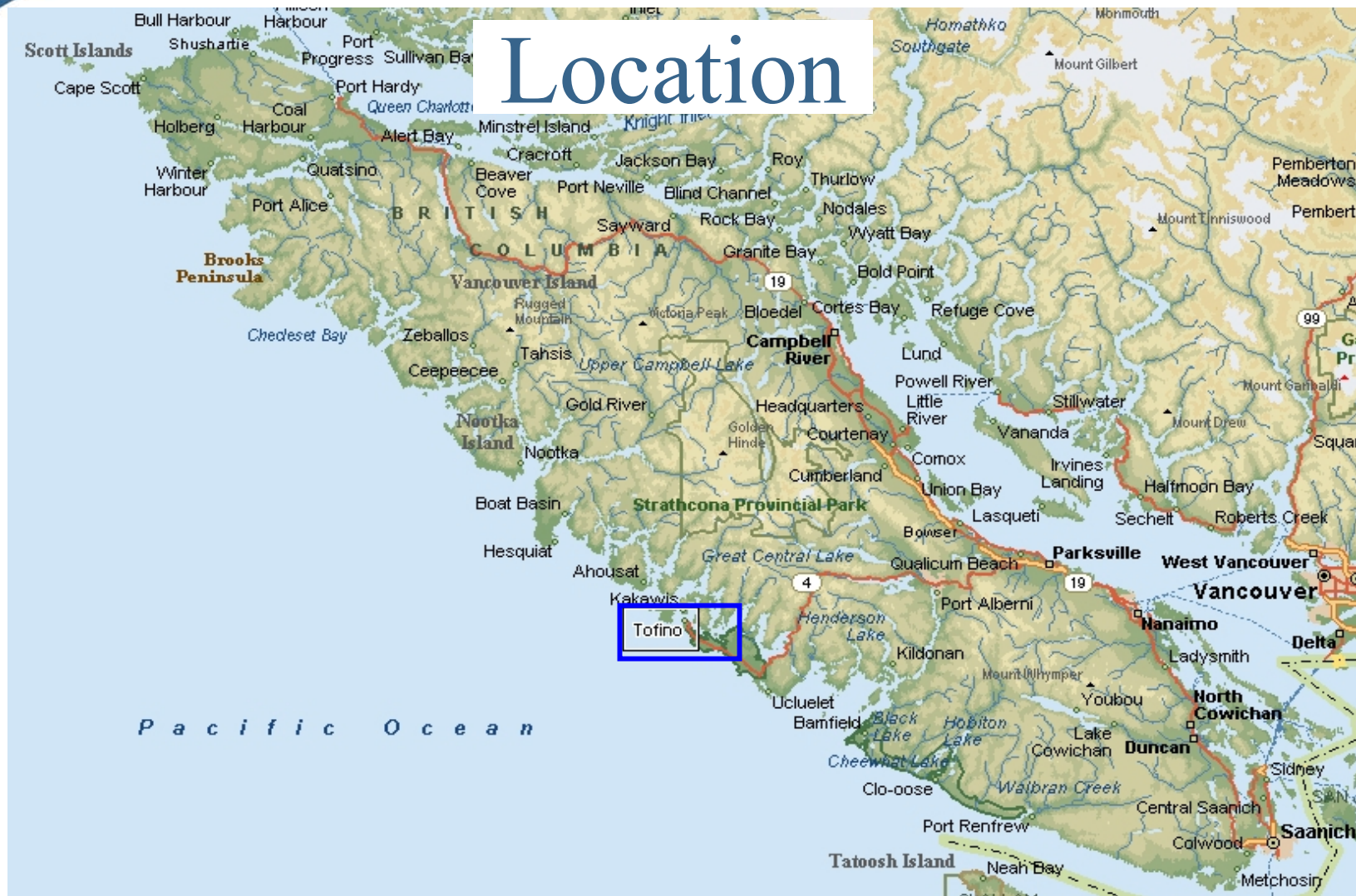
Location





Creative Salmon Company Ltd.

Location



Clayoquot Sound, Tofino, BC, Canada



Creative Salmon Company Ltd.

Location





Location

- Our sites are located within the traditional territory of the Tla-o-qui-aht First Nations
- Clayoquot Sound was designated a UNESCO Biosphere reserve in May 2000.
- Biosphere Reserves are in essence global laboratories for sustainable development.



Sustainable Development

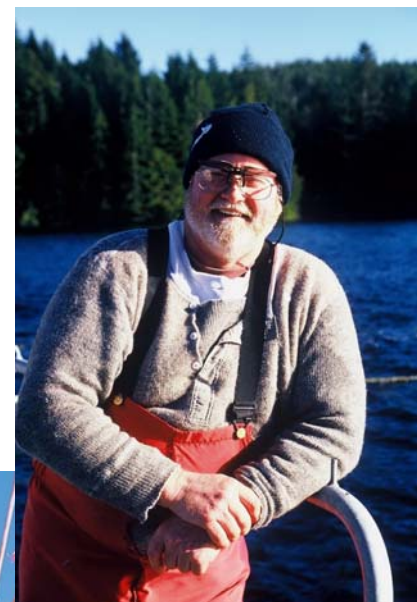
Generate economic benefits,
while having respect for :

- our employees
- our community
- our environment
- and the salmon we grow



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Employees





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Community

- First Aquaculture company in B.C. to employ a First Nations liaison person
- Active member of the community





Involved in many local events

- Baseball, Basketball
- Clayoquot Sound Community Theatre
- Coastal Family Resource Center
- Cops for Cancer
- Edge to Edge Marathon
- First Nations Surf Camp
- Fish Contributions to Non-Profits
- Golf Tournaments
- Legion Salmon Derby BBQ
- Music Festivals
- Pacific Rim Arts Society
- SCAT Program
- School Farm Tours
- Starlight Extravaganza
- Strawberry Island Research Center
- Tla-o-qui-aht First Nations Canoe Races
- Tofino Business Association
- Tofino Salmon Enhancement Society
- Tofino Skateboard Park
- Ukee Days
- Whale Festival
- Wickaninnish Elementary School Hot Lunch Program



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Environment



Clayoquot Sound, Tofino, BC, Canada



Environmental Monitoring



- Design and Implement monitoring program to measure impacts.
- This was the first program of its type on the coast and preceded government regulations.
- Fallowing
- Feed Management



Underwater Cameras

- Started using underwater cameras in 1996.
- Cameras are installed in every cage
- Every meal is monitored and adjusted to the fishes appetite
- This ensures fish are fed properly and feed waste is kept to a minimum





Fish Health

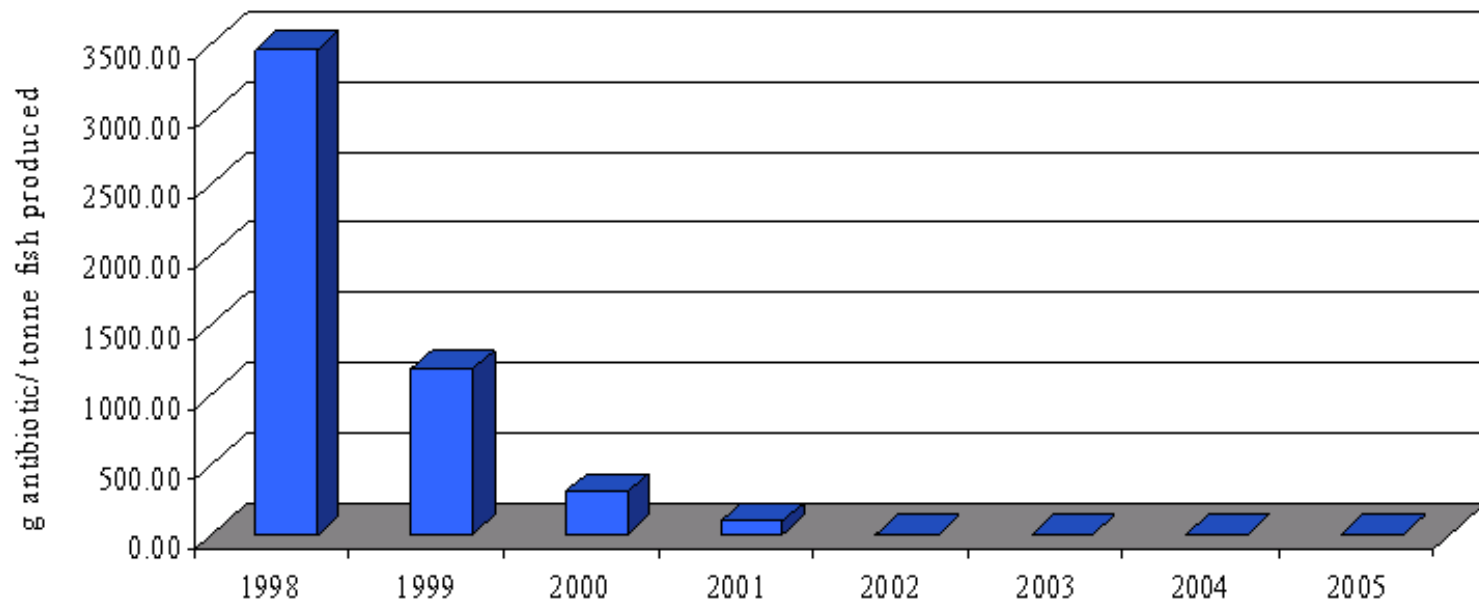
- Quality Smolts
- Fish husbandry
 - quality feed
 - minimal handling
 - low densities
 - health monitoring





No antibiotics since Oct 17, 2001

Use of antibiotics in Market fish at Creative Salmon





Addressing the Issues

- Price of wild salmon
- Disease & Sea Lice
- Escapes
- Fish farm wastes



Prices

- Global aquaculture has reduced the average price of salmon
- Created new markets with higher and better value for quality salmon
- Target niche markets for higher prices
- Wild Yukon Chinook



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Disease & Sea Lice





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Disease & Sea Lice





Escapes

- Routine maintenance & daily system checks
- High quality nets
- Containment nets when handling fish
- Non-lethal predator control
- Engineered anchoring designs
- Less than 15 fish have escaped in the last 5 years.



Fish Farm Waste

- Fallowing of farm sites
- Short term
 - 3-4 months between stocking
- Long term
 - 2-4 years between stocking
 - We only operate 4 of 6 tenure at a time



Research & Development

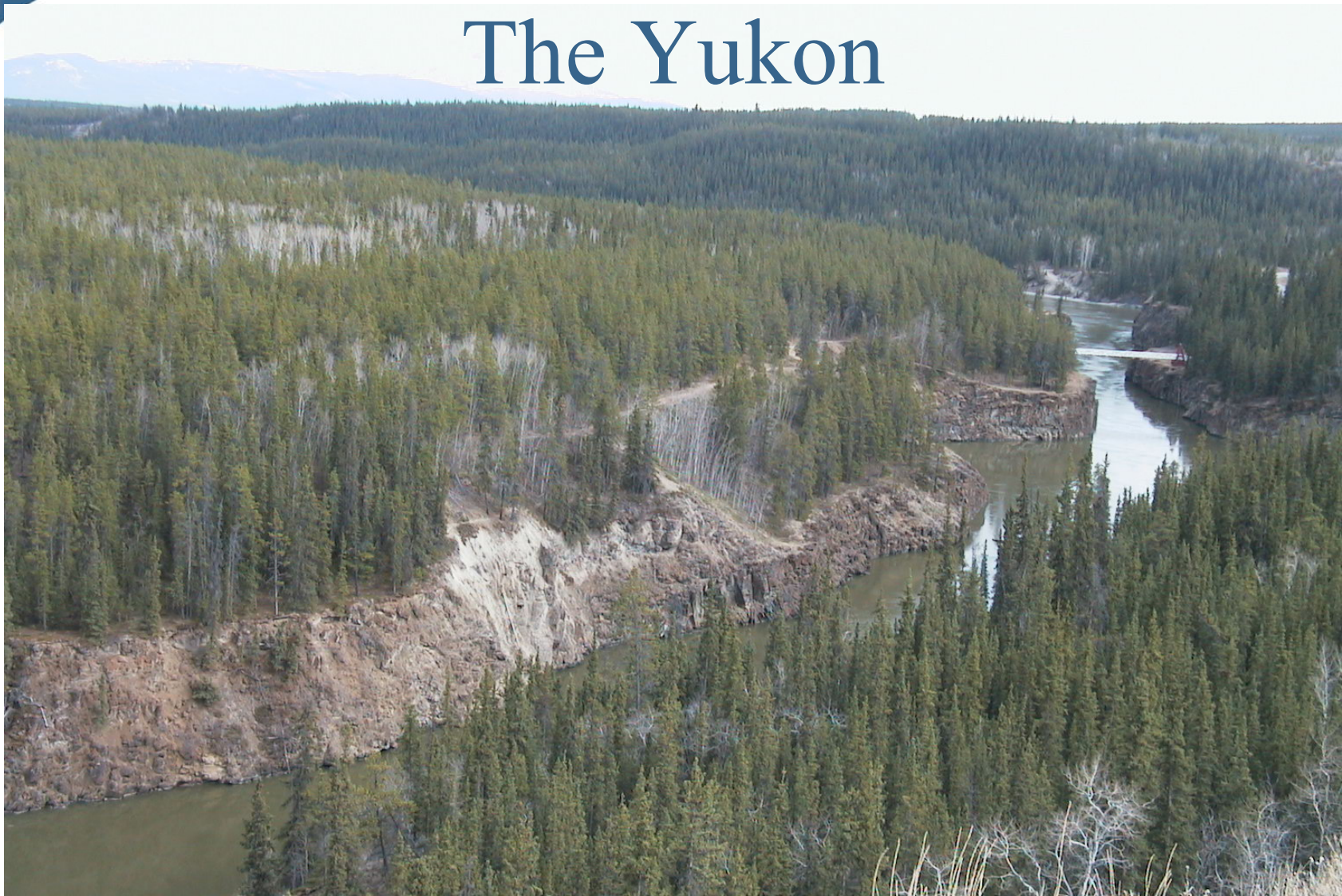
- Creative Salmon is actively involved with the scientific community to find solutions

- David Clough R.PBio–StreamKeepers
- Steve Cross Ph.D. – Aquametrix
- Bob Devlin Ph.D. – DFO
- Dave Groves Ph.D.– Sea Spring
- Nicky Haigh – Malaspina College
- Brad Hicks DVM. – Aquanet
- Dave Higgs Ph.D. – DFO
- Simon Jones Ph.D. – DFO, PBS
- MaryLou Swift Ph.D.– Pacific Agri
- Michael Kent Ph.D. – DFO, PBS
- Warren Nagata Ph.D. – NRC
- Bob Olafson Ph.D.– UVic
- Ray Peterson Ph.D. – Trigen
- Myron Roth Ph.D.– Aquahealth
- Dave Speare DVM.– UPEI
- Bruce Swift M.Sc.– Trigen
- Ian Whyte Ph.D. – DFO, PBS
- Ruth Withler Ph.D. – DFO, PBS



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The Yukon



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When and Why?

- Creative Salmon began its relationship with the Yukon in 1990.
- Yukon River Chinook are well known for their rich color and high fat content.



Timeline

- 1990 – 1996
 - Eggs and Milt collected under a commercial fishing license.
 - Eggs were fertilized at the Whitehorse Hatchery
 - 1996 was the last time eggs were collected.
 - **1996 was the last time wild genetic material was used in our brood stock program.**
 - **Since 1996 all milt collected has been frozen and is held in inventory.**



Timeline

- 1997 - 1999
 - Only milt was collected at Minto.
 - 1998 was a poor return to the Yukon.
- 2000 - 2004
 - Milt was collected at the Whitehorse Hatchery from spent males.
 - 2001 was another poor return to the Yukon.



What We Do Now

- We collect milt at the Whitehorse Fish Hatchery
- The milt is collected after the staff are finished with the male.
- Complete disease screening of the males as required under Fish Health regulations.



Mutual Benefits

- In the early years our activities provided economic benefit to the hatchery.
- Adding Value to the resource.
- Disease Information
 - Valuable information is obtained through the screening process.
 - This information is provided to the hatchery and DFO



Mutual Benefits

- Gene Banking
 - Provides a living insurance policy, with an inventory of live and frozen Yukon genetics
 - This material will be made available to the Yukon should the need arise



Why do we want to continue?

- To strengthen and expand the relationship we have built with the Yukon.
- Possible joint ventures in the future
- You never know what the future has in store.



Question of the Day

- **Should the Yukon Salmon Committee support or reject the transfer of Yukon salmon genetic material for use**
~~in the salmon net cage farming industry?~~
- We ask that you consider our history in the Yukon.
- We ask that you consider Creative Salmon's approach to sustainable aquaculture.
- We ask that Creative Salmon be allowed to continue with the support of the Yukon Salmon Committee and the public it represents.



Question of the Day

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Thank You