



James Davison (CHE) | Alp Humbaraci (IE) | Sean Minor (CE)
 Advisors: Professor Robert Traver, Professor Kristin Wobbe

Nekton Aquatics

6874 Industrial Park Rd.
 Saco, Maine 04072
 (207)555-3579
 www.ftwnektonaquatics.com

Abstract

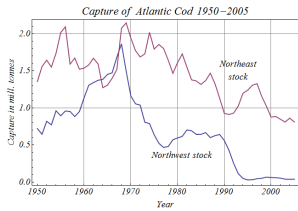
Nekton Aquatics is a prospective company emphasizing environmental reconstruction and the need for stable food sources in the world. We believe that the repopulation of North Atlantic Cod in Georges Bank is a major step toward reversing the damaging effects of overfishing. Our main objective is to provide clientele with a sustainable cod source, focusing on the Portland region. Nekton Aquatics plans to have its first aquafarm located conveniently off Interstate 95 in Saco, Maine. Our new facility will hold 1500 tanks over 15 acres which will hold and produce 1500 tons of cod annually. Over the years, we hope that our cod production will alleviate the stress on the cod population located in George's Bank, and encourage the fishing industry to change its views on land-based fish farms.

Nekton Aquatics:
 For a Sustainable World



Background

Northwest Atlantic Cod has driven the world's fish markets for the past 500 years. Originally, colonies along the east coast of North America would fish in reasonable quantities (300,000 tons per year). Over time, these fish became exploited, as technological increases allowed humans to fish more and more of them. The FAO estimates that 95% of the species total biomass has been depleted due to commercial fishing and expansion.



The past fifty years have shown catastrophic declines in Northwest Atlantic Cod fisheries, with both Newfoundland and George's Bank fisheries collapsing within a decade of each other. With the collapse came very strict government policies, preventing the commercial catch of Cod until the stock replenished. While Newfoundland's stock is recovering slowly, Georges Bank's stocks of Cod have not yet recovered to capacity.

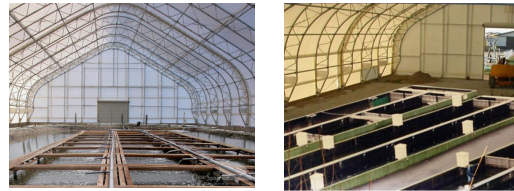
Natural recovery takes time, usually longer than the world's markets will allow for. Aquafarming has been used for thousands of years to subsidize conventional fishing, in China, allowing for a more controlled production of seafood in artificial pools on land. Now, advanced technology is available to help this ancient practice become a lucrative, proactive endeavor.

Goals/Objectives

- To farm-raise North Atlantic Cod in Portland, Maine
 - To provide a sustainable food source that can be easily maintained and monitored
 - To promote the use to ecologically friendly indoor aquaculture
- To allow regeneration of habitat and marine species along the coast of Maine
 - To salvage the Cod population
 - To reduce the impact of commercial fishing

The Aquafarm and its Customers

Nekton Aquatics will produce North Atlantic Cod in a similar fashion to the layout of Hubbs Seaworld Research Institute. Hubbs Seaworld Research Institute raises Sea Bass out of California.



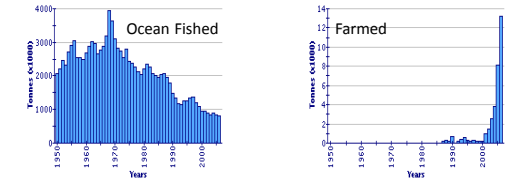
Fish will be stored in large, 6600 gallon tanks, allowing for maximum output of Cod, while maintaining a healthy living environment for the fish. Clearspan is a well known construction company for Fisheries and Hatcheries, the images shown here represent what portions of the Aquafarm would look like.

Nekton Aquatics will supply local Portland businesses, including supermarkets and restaurants, such as:

- DiMillos Floating Restaurant
- Portland's
- Baele Street BBQ



The Problem Exists, the Solution is Growing



The yields of ocean-fished Atlantic Cod are falling rapidly, while the production in aquafarms is climbing exponentially. Aquafarming works, it just needs to be embraced by the Northeast

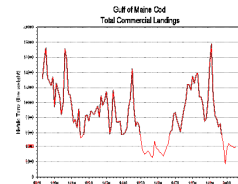
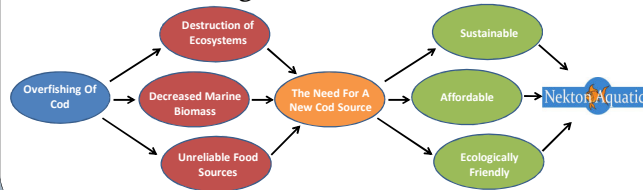


Figure 1.2. Total commercial landings of Atlantic cod (Gulf of Maine and 2005) (FAO, 1950-2007)

George's Bank Cod Stocks have plummeted nearly beyond repair. Aquaculture provides an ecologically friendly alternative. Beyond initial breeding, no Cod are removed from the ocean.

All Signs Point to Nekton



Estimated Yields

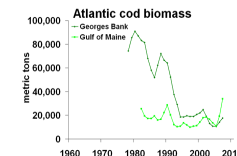
Estimated Yields Based off of Growth Rate of Aquafarming, and Comparison to Carlsbad and Hubbs Seaworld Research Institute Aquafarms

	2010	2011	2012	Growth
Fish Production	1500 tons	1800 tons	2200 tons	12.7%
Costs	\$560,000	\$675,000	\$825,000	12.9%
Net Profit	\$190,000	\$250,000	\$310,000	16.0%

The Signs of Improvement

•More Aquafarms

•Currently 41.9 million tons (31%) of the world's fishery production was a result of aquafarming



The trends are starting to reverse: while nowhere near the levels a mere two decades ago, the biomass of Atlantic Cod is still rising, and that's a start.

Promotional Strategy

•Venture Capitalist Proposal

•Appeal to a venture capitalist firm, such as Matrix Partners, Khosla Ventures, and Prism Venture Partners

•Private Advertising

•Private presentation for potential clients. Presentations provide a more personal look into Nekton Aquatics

•Public Advertising



•The public will have full access to information about Nekton Aquatics via an interactive website and distributed brochures, as well as representative question and answer sessions