Establishing a Compartment: Private and Public Sector Cooperation

Third OIE Global Conference
Aquatic Animal Health: Riding the Wave to the Future
Ho Chi Minh City, Vietnam

Justin Henry
Target Marine Hatcheries, Canada
January 21st, 2015
Outline

• Global Seafood Production
• The Need to Trade Live Fish
• Streamlining Trade
• Target Marine Hatcheries
• Compartmentalization Challenges
Global Seafood Production

"Large scale commercial aquaculture is little more than 30 years old. New technologies, new breeds and newly domesticated species of fish offer great hope for the future. They promise a Blue Revolution in this century to match the green revolution of the last."

- The Economist: 9 - 15 August 2003
Global Seafood Production

Aquaculture Is Expanding to Meet World Fish Demand


Global Seafood Production
# Global Seafood Production

<table>
<thead>
<tr>
<th>Efficiency Metric</th>
<th>Salmon</th>
<th>Poultry</th>
<th>Swine</th>
<th>Beef</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feed Conversion</td>
<td>1.2</td>
<td>2.2</td>
<td>3</td>
<td>4 – 10</td>
</tr>
<tr>
<td>Protein Retention</td>
<td>24%</td>
<td>21%</td>
<td>18%</td>
<td>15%</td>
</tr>
<tr>
<td>Edible Yield</td>
<td>68%</td>
<td>46%</td>
<td>52%</td>
<td>41%</td>
</tr>
<tr>
<td>Edible Meat per 100 kg of feed</td>
<td>57 kg</td>
<td>21 kg</td>
<td>17 kg</td>
<td>4 – 10 kg</td>
</tr>
</tbody>
</table>

The Need To Trade Live Fish

“We must plant the sea and herd its animals . . . using the sea as farmers instead of hunters. That is what civilization is all about: farming replacing hunting.”

• Jacques Yves Cousteau
  (Interview July 17, 1971)
The Need To Trade Live Fish

Desired Traits

- Disease resistance
- Growth rate
- Feed conversion efficiency
- Organooleptic properties
The Need To Trade Live Fish

Product Availability

- Year round availability
- Monosex stock
- Certified organic stock
- Stock with accompanying designer feeds and vaccines
Streamlining Trade

- Business Planning
- Limited shipping window
- Maximum transport times
Target Marine’s Farm
Target Marine’s Farm
Target Marine’s Farm

2011 – Recommended as sustainable seafood by the Vancouver Aquarium’s Ocean Wise program.

2012 – Certified Organic by Global Trust under the Canadian Organic Aquaculture Standard. 1st in RAS.

2013 – Recommended as a Best Choice by SeaChoice & Monterey Bay Aquarium’s Seafood Watch. 1st caviar.
Target Marine’s Farm
Target Marine’s Farm
Target Marine Hatcherries Ltd
Target Marine Hatchery Site
7333 Sechelt Inlet Road, Sechelt, British Columbia, Canada, V0N 3A4

Has been evaluated by Global Trust Certification Ltd, in accordance with the requirements of ISO Guide 65 and the process was found to meet the organic production requirements of

Canadian General Standards Board
Organic Aquaculture Standard
CAN/CGSB-32.312-2012

Registration No: CANORG1006
Product: White Sturgeon (Acipenser transmontanus)
          Coho Salmon (Oncorhynchus kisutch)
          Caviar (Acipenser transmontanus)
          Aquatic plants grown in conjunction with the aquaculture facility

Date of Evaluation: 14th August 2014
Certificate Issue Date: 22nd September 2014
Re- Evaluation Due Date: 14th August 2015
Certificate Expiry Date: 9th October 2015

Signed on behalf of Global Trust Certification Ltd at Head Office, Dundalk:

[Signature]
Mr Bill Paterson
Operations Manager
Target Marine’s Farm

Changes for Compartamentalization

• Eliminate surface water use
• Increase fish health sampling frequency
• Eliminate the introduction of any new fish
Target Marine’s Farm

Changes for Compartmentalization

• Sechelt Nation salmon enhancement partnership
Compartmentalization Challenges

Limiting the Negotiation Time

• Why?
  – Cannot trade during negotiation
  – Industry needs to plan

• How?
  – Negotiate in good faith
  – Commit appropriate resources
  – Set time limits
Compartimentalization Challenges

Ensuring the Requirements are Achievable

• Why?
  – Unanticipated issues can arise for farmers
  – Unanticipated issues can arise for regulators

• How?
  – Means for review and renegotiation
  – Input from industry during negotiation
Compartmentalization Challenges

Handling Two Systems

• Why?
  – Conflict can arise between zoning and compartmentalization

• How?
  – Single authority (Nationally)
  – Have more countries adopt compartmentalization (Internationally)
Compartmentalization Challenges

Making it Affordable

• Why?
  – Fish health sampling can be expensive
  – It could be a barrier to trade

• How?
  – Share costs
  – Promote OIE list of diseases
Compartmentalization Challenges

Getting Everyone to Buy In

• Why?
  – Prevent companies from trading outside of compartmentalization (Industry)
  – Facilitate and streamline trade (Country)

• How?
  – Address challenges (Industry)
  – Communication strategy (Industry)
Compartmentalization Challenges

Getting Everyone to Buy In

How do you get countries to buy in?

- [Image of the United States]
- [Image of Australia]
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