


AVC Lobster Science Centre
ATLANTIC VETERINARY COLLEGE



Overview of the AVC Lobster Science Centre Service Unit

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Points to cover

- Overview of the AVCLSC
- Atlantic Lobster Molt & Quality Project
- The 3 components of the Service Unit
 - Health Management
 - Emergency Response
 - Education
- Questions?



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AVC Lobster Science Centre

- Dedicated to lobster & crustacean health research since 2000
- Long-term benefit to the industry
- Increase the overall productivity of the industry and related sectors
- Peer-reviewed research, basic and applied

Applying principles of veterinary medicine to wild fisheries and post-harvest industries

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Sampling Specific Project

One example



- **LFA 33/34 Lobster Molt & Quality Monitoring Project**
 - Initiated 2004
 - Collaborative research program
 - Lobster harvesters, buyers, dealers, processors, and scientists are all participating in this research
 - Designed to better document and understand the annual changes in molt-timing and lobster quality in LFAs 33/34
 - Pre-season, during and post-season sampling
 - 18 areas in LFAs 33/34
 - ~65,000 lobsters sampled since June 2004
 - Foundation for the Atlantic Lobster Molt & Quality Project (AIF-V)

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ALMQ Project

- Five year project costing \$4.4 M
 - ACOA (AIF) \$2.4 M
 - DFO \$400,000
 - Provinces \$675,000
 - Industry and private \$625,000
 - UPEI \$265,000
- Field Monitoring
- Reproductive Status
- Gene Discovery
- Biochemistry Profile
- **Service Unit**

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ALMQ Project

Service Unit

"Stress from lobster harvesting and handling and disease outbreaks within post-harvest holding facilities are not uncommon. However, these occurrences are rarely investigated."

- The Service Unit has 3 components:
 - Lobster Health Emergency Response
 - Health Management
 - Education




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Service Unit

Emergency Response

➔ Rapid scientific response to lobster health problems by investigating and analysing lobster diseases and production problems




➔ Available to all sectors of the industry

➔ Confidential






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Service Unit

Health Management

Or how to use management practices to prevent disease or stress and eventually increase productivity

- Disease prevention:
 - Proper selection
 - Water quality
 - Grading
 - Nutrition
 - Sanitation / bio-security
 - Etc...


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Service Unit

Education

- The overall purpose is to increase awareness of lobster health issues among all stakeholders of the lobster industry

Strategic workshops, on-site training, conferences & symposium or one-on-one interactions.






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Service Unit

Some examples








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What else?

- Larval health monitoring /assessment
- Shell Disease surveillance

Biotoxin (PSP) research?



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Cost?

- Emergency response/ Health management
 - Travel/site visit
 - Lobster cost
 - Testing
 - Professional/technical time
- Education
 - Workshop
 - One-on-one
 - Onsite training
 - Other?





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Questions



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