Evolving Approach to Animal Health Emergency Management in Canada’s Livestock Industry

Focus on Beef Industry

Cross Border Livestock Health Committee

Pacific North West Economic Region Conference

July 25, 2017
OUTLINE

- Current Status

- What IS The Risk

- Scan of Canadian Approaches

- Emerging Canadian Livestock Industry Approach
  - Plant & Animal Health Strategy, facilitated by CFIA
  - Livestock Market Interruption Strategy, facilitated by AAFC
1. CURRENT STATUS:
Benchmark Survey - EM in CDN Livestock & Poultry Industry

- 55% response rate
  - 72 respondents of 130 invitees (August - September, 2016)
- 97% vulnerable to a major disease outbreak
- 46% have a Plan
  - 28% from within livestock associations
  - 100% from within poultry associations
- 94% see value from a provincial / regional support organizations, e.g. Secretariats

Survey courtesy Canadian Animal Health Coalition, 2016,
Funded by Agriculture & Agri-Food Canada Growing Forward 2
2. WHAT IS THE RISK?

• Canadian Poultry Industry?
  - Highly Pathogenic Avian Influenza (HPAI)

• Canadian Swine Industry?
  - Circovirus, and
  - Porcine Epidemic Diarrhea (PED)

• Beef Industry – Canadian or US?
  - BSE, TB,
  - … Nothing comparable to date

…We look at FMD: our comparable to HPAI and PED
WHAT IS THE RISK?

• Risk (def’n.) = Probability x Impact
  • Beef industry
    • Manages for relatively high probability / low impact
      • Supported by the business case
  • FMD scenario
    • Low probability / HIGH IMPACT
    • One of several similar FADs
WHAT IS THE RISK?
FMD In Countries Previously Free

- **1992 – 2003 (24 cases)**
  McIaws Ribble. 2005
  - UK, France, Netherlands, Ireland, 2001
  - Brazil, 2000
  - Paraguay, 2000
  - Argentina, 2000
  - Uruguay, 2000, 2001
  - Bulgaria, 1993, 1996
  - Italy, 1993
  - Yugoslavia (Serbia), 1996
  - S. Korea, 2000, 2002
  - Swaziland, 2000
  - S. Africa, 2000
  - Japan, 2000
  - Taiwan, 1997

- **2005 – 2016**
  Knight Jones 2016
  - Countries/zones recognised as free from FMD without vaccination
  - Countries/zones recognised as free from FMD with vaccination
  - Countries/zones without an OIE official status for FMD
WHAT IS THE RISK?
FMD In Countries Previously Free – Case Study

Note the large JUMP

- Taiwan 1997
- Argentina 2000
- UK 2001; Uruguay 2001
- Yugoslavia 1996; Greece 1994
- Italy 1993
- Greece 1996
- Netherlands 2001; Brazil 2000
- S. Korea 2000, 2002; Greece 2000
WHAT IS THE RISK?

Observations of FMD / FAD in Canada / US Beef Industry

• Outbreaks DO happen… even in countries previously free of FMD – or other highly infectious disease

• Factors fostering large outbreaks (research)…
  • Comingling
  • High density areas
  • Delayed detection and
  • Ineffective response

  • ... inherent in the North American beef industry

• This tendency to large outbreaks exacerbated by specifics of beef industry, e.g.
  • Entry points? ...Ports + large cities + livestock
  • Movements? ...High frequency / long distance
  • Size of operations? ...Large / Huge
  • Daily logistics? ...Hard to slow or stop
  • Biosecurity? ...Low
3. SCAN OF CDN APPROACHES

- Evolving Approach To Roles
  - Government: from ‘Paternalistic Leader’ solely responsible, to ‘Willing Partner’ with limited responsibility
  - Livestock Industry: catching up with that change… led by Beef

- Increasing Industry engagement in managing the response
  - Follows poultry experience
    - Before – never in EOC
    - Now (TB) - ’Liaison’
    - Anticipated (FMD) – staff complement to Operations and Planning sections

- Industry Recent Experience
  - Exercise Phoenix (2015)
  - TB (S. AB, 2016)
  - Exercise Beef 2016 (A Leaders Review of FMD Readiness in Canada’s Beef Industry)
SCAN OF CDN APPROACHES

- Government
  - Increasing adoption of
    - ICS
    - Joint EOCs

- Agreements & Strategies
  - FAD Eradication Support / Response
  - Disease Eradication Plans
  - Livestock Market Interruption Strategy
  - Plant & Animal Health Strategy
  - And More…

- Industry
  - Nationally
    - Communications Plans
    - Biosecurity Standards
    - Consistent – incomplete vs need

  - Provincially
    - Association Plans
    - Producer Guidelines
    - Patchwork quilt – threadbare?
4. EMERGING CDN LIVESTOCK INDUSTRY APPROACH TO ‘AHEM’… Overview

- Association PLANS…
  - Roles & responsibilities

- Producer GUIDELINES…
  - Anticipated activities, first actions, tools for preparedness

- Commodity or Regional SECRETARIATS
  - Ongoing support
  - Keeping things ‘evergreen’

- Next Steps
EMERGING CDN LIVESTOCK INDUSTRY APPROACH TO ‘AHEM’… Association-Level PLANS

• Leadership
  • Representing sector’s producers
  • Consulting with Government Executive ‘above’ EOC

• EOC Liaison Officers / Staff
  • ICS-trained ‘EOC Staff’
  • Industry technical know-how information to EOC (Command, Planning, Operations, etc)

• Communication
  • Communicate to constituents / producers in a manner consistent with other partners
  • ‘Town Hall’ teleconferences for stakeholders

• Policy Development
  • Executive level Industry / Government process

• Administration for additional services expected of industry
  • Valuation Services
  • Buddy program for affected producers
  • Additional staffing for additional load
EMERGING CDN LIVESTOCK INDUSTRY APPROACH TO ‘AHEM’… Producer-Level GUIDELINES

• Anticipated Activities and initial actions for each
  • Indicators of ‘unusual events’… my farm
  • Initial response to ‘unusual events’… my farm
  • Triggers of sector wide emergencies… elsewhere
  • Biosecurity practices… ‘Amber’ for elevated risk, and ‘Red’ for high risk
  • Voluntary Cease Movement…
  • Mass Vaccination… my farm
  • Mass Depopulation & Disposal… my farm

• Tools for preparing necessary information
  • Farm Objectives… in an emergency
  • Farm Plan… pictorial layout / hazard location
  • Farm Inventory… Equipment & people
  • Primary / Secondary Decision Makers
  • Contacts… & staff
  • Visitor Controls
EMERGING CDN LIVESTOCK INDUSTRY APPROACH TO ‘AHEM’…
Commodity / Regional SECRETARIATS

Learning from the experience of those who’ve had major outbreaks
- Poultry, after HPAI (BC and Ontario)
- Swine, after PED (Ontario)

Regional or Commodity SECRETARIATS
- Working in support of organizational leaders within sector or region
- Foster preparedness
EMERGING CDN LIVESTOCK INDUSTRY APPROACH TO ’AHEM’…
Beef FAD / FMD SECRETARIAT

Beef Industry FAD / FMD Secretariat (In Progress)
• Development Phase (September 2017 – March 2018)
  • Strategy
  • Structure (organizational / membership / reporting)
  • Draft Work Plan
• Start Up Phase (April 2018 – March 2023)
  • Solutions to policy / program gaps requiring an industry lead
    • Valuation modelling
    • Voluntary Cease Movement Strategy
  • Exercises within sector and multi-commodity
  • Updates to Plans & Guidelines
  • Initial Event Coordination for leaders across several organizations

• Vaccination strategy
• Depopulation strategy & methods
EMERGING CDN LIVESTOCK INDUSTRY APPROACH TO ‘AHEM’… focus on BEEF

Current Status

• PLANS & GUIDELINES
  • 2 provinces’ cattle feeder associations
  • 6 provinces’ general beef associations
  • 85% of beef production (03/18)
  • 8 other provincial commodity associations
  • 16 in total (03/18)

• SECRETARIAT
  • Beef Industry FAD / FMD Secretariat
    • Strategy, Workplan, Structure, Membership (03/18)
    • Fully funded implementation (04/18)

Anticipated Next Steps, 2018 – 2023

1. PLANS & GUIDELINES
   • More associations (5 beef, 10 – 15 other)

2. Producer / Industry Awareness
   • Phone APP (producer GUIDELINES)
   • Exercise / Workshops (4-5 / province)
   • ICS Training (staff re Plan)

3. FAD Training for Practitioners
   • On invitation from industry

4. SECRETARIATS
   • Beef Secretariat (implementation)
   • Other for other commodities?
• Questions?

• Comments?

• Thank You!