

Canadian Pork Council Conseil canadien du porc ASF

Banff Pork Seminar January 2020

#### The Threats to Canadian Pork

- 1. ASF Virus Continues to Spread Globally
- 2. Illegal Meat Products Continue to Move Globally
- 3. A Single Case = Massive Farm Business Disruption
- 4. Few **Zoning** Agreements
- 5. No Clear Recovery Programming



## Dr. Jaspinder Komal – Canada CVO

"We're very, very worried. It's a huge threat to the pig population, pig production."

"We have accelerated our effort in raising awareness and preparing ourselves and putting plans in place ... this is really unprecedented."

'We're very, very worried': Canada's 'unprecedented' campaign to keep out African Swine Fever, from sniffer dogs to sausage bans

Hundreds of citations and fines — of up to \$1,300 — have been levied in the last year to travelers with undeclared east Asian swine products



Canadian Border Services Agency sniffer dog Ambrose is at the forefront of "unprecedented" efforts to keep African Swine Fever out of Canada. Twitter





Prevention

Preparedness

Response

Recovery

African Swine Fever

We Are Making Progress



#### **Detector Dog Service**

Mar 14<sup>th</sup> 2019 Announcement

\$31 million

24 new Dog Teams over 5 Years

Total to 39



The Honourable Marie-Claude Bibeau, Minister of Agriculture and Agri-Food Canada, stands at the Montréal-Trudeau airport with two Canadian border services officers and two detector dogs.

#### North American ASF Forum

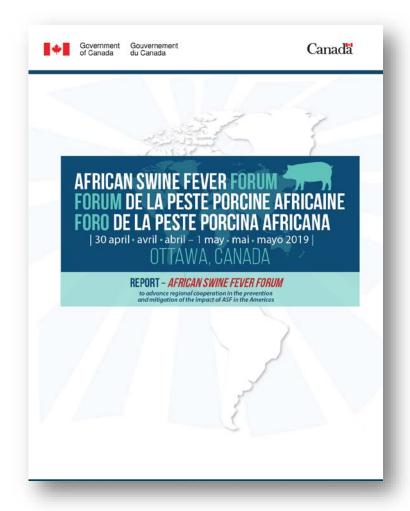
Apr 30<sup>th</sup> & May 1<sup>st</sup>

Hosted by NA's 3 CVO's

Industry

Government

Global



#### AFRICAN SWINE FEVER FORUM FORUM DE LA PESTE PORCINE AFRICAINE FORO DE LA PESTE PORCINA AFRICANA

30 april - avril - abril - 1 may - mai - mayo 2019

## REVISED FRAMEWORK FOR THE PREVENTION & CONTROL OF AFRICAN SWINE FEVER



OBJECTIVE: To prevent entry and mitigate the impacts of ASF in the Americas

#### FOUR PILLARS FOR ACTION BASED ON A FOUNDATION OF SCIENCE



**Expected outcome:** Countries have a high state of readiness to swiftly control ASF should it enter the Americas region.



**Expected outcome:** Key biosecurity measures are in place to prevent the entry of ASF into the domestic and wild pigs populations of the Americas, and mitigate its spread within these populations.



**Expected outcome:** Mitigate the trade impacts of ASF on the swine sector, both nationally and internationally, while controlling and eradicating the disease.

#### COORDINATED RISK COMMUNICATIONS

4

**Expected outcome:** Effective risk communication on ASF with target audiences to encourage informed decision making, behaviour modification, and trust in governments and industry.

#### **AREAS FOR ACTION**

- Increase readiness by validating ASF preparedness plans and testing response capabilities through exercises involving all stakeholders.
- Find solutions to deficiencies in ASF response capabilities and planning gaps.
- Optimize rapid ASF detection in the Americas by ensuring capacity for surveillance.
- Develop the appropriate process and capacity for rapid risk assessment to identify risks for ASF and inform policy decision as situations evolve.
- Continue to collaborate internationally on critical ASF research with particular attention to the development of vaccines and other tools to prevent or respond to an ASF outbreak.

#### **AREAS FOR ACTION**

- Identify key threats, gaps, and best practices in national border biosecurity, including establishment of appropriate level of activity, informed by risk assessment.
- Establish coherent collaboration to ensure border authorities share intelligence and best practices to mitigate the entry.
- Foster collaboration and compliance to address biosecurity ensuring responsibilities of all stakeholders are identified.
- Involve stakeholders in government, industry, and academia to gain an understanding of the wild pigs populations, and share best management practices at borders and the interface with domestic pigs.

#### **AREAS FOR ACTION**

- Ensure risk based movements of animals and animal products domestically to keep industry viable in the face of an outbreak.
- To provide guidance and technical support for the development of common standards for zone establishment to gain wider acceptance.
- Proactively negotiate the recognition of zoning approaches with trading partners to reduce impediments to trade.
- Work with international partners and the OIE to develop globally recognized and accepted guidance on the application of compartmentalization for ASF to gain wider acceptance, both in infected and uninfected countries.

#### **AREAS FOR ACTION**

- Develop a consistent approach and strategies to communicating risk, adapted to the specific needs and circumstances, including disease status, of various countries.
- Identify or develop platforms and mechanisms for ongoing coordination of messaging and for sharing of communications-related information between countries.
- Establish mechanisms for monitoring public narrative on ASF to ensure information in media and social media is accurate.
- Develop notification protocols to update partners on disease status.



#### **PARTNERSHIPS**

Leverage existing partnerships or build new ones to engage stakeholders in areas which require collaboration to attain expeditious and responsive solutions to manage ASF. Clearly define the roles and responsibilities of the partners in accordance with their respective mandate.



#### **GOVERNANCE**

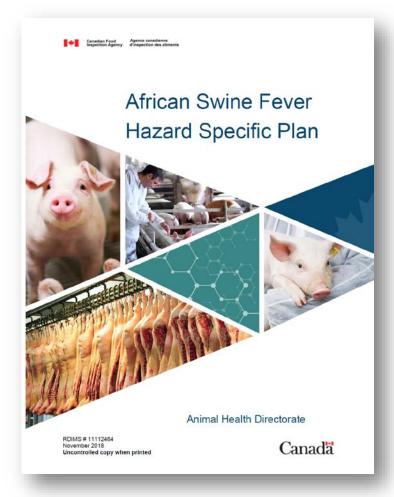
Optimize the potential of existing governance mechanisms at international, regional, sub-regional and national levels to ensure effective coordination and co-operation among all parties to implement appropriate measures to achieve common objectives for the prevention and control of ASF.

#### **CFIA & Industry Preparedness**

ASF Hazard Specific Plan

(LMIS)

Livestock Market<br/>Interruption Strategy



#### **NA Diagnostic Cooperation**

- Harmonization of ASF Dx in North America- SENASICA, FADDL & CFIA
  - US, Mexico & Canada national FAD Labs Similar mandate and responsibilities, but use different diagnostic tests & reagents obtained from a wide variety of sources
  - Harmonization is critical Intensive and highly interconnected trade between Canada, Mexico and the US
  - Initiated harmonization of all Dx tests for ASF, FMD and CSF
  - First phase will focus on real-time PCR assays
  - Develop a "Harmonization" Panel" 30 samples per pathogen
     (Dilution series, different genotypes/serotypes, negatives, differentials









## **Travellers Entering Canada**

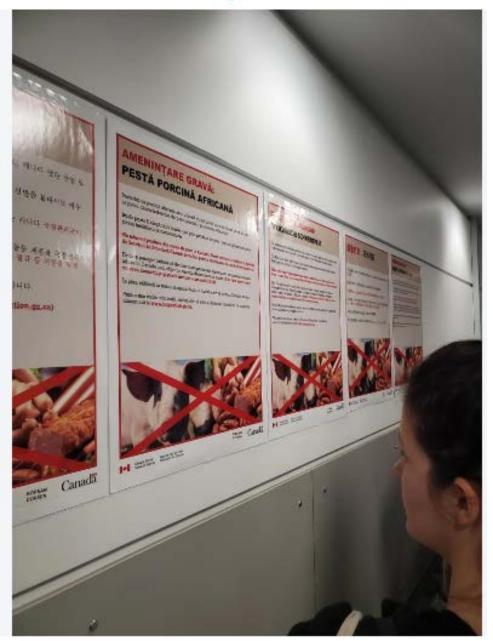
#### In Flight Announcements

- General
- Specific
- Adaptive



Good to see info re ASF at Pearson! #EganBrockhoff

...see more



## Signage at Airports

**ASF Alert** 

**Declare Meat Products** 

Multiple Languages

Fines

## NATIONAL LEVEL COMMITTEES AND WORKING GROUPS

#### **Executive Management Board**

#### National Emergency Response Team

Enhanced **Biosecurity-Prevention** 

**Preparedness Planning** 

**Ensure Business** Continuity

**Coordinated Risk** Communications

Biosecurity **Working Group**  **Humane Depopulation Working Group** 

**Hog Supply Working Group**  Communication **Working Group** 

Wild Pig **Working Group** 

Surveillance Working Group

Zoning Industry-Government Working Group

Research Working Group

## **Executive Management Board**

#### Government

- CFIA VP's
- CVO

#### Industry

- CPC Executive Director
- CMC
- Industry Leaders

## **National Emergency Operations Centre**

**Activated Summer 2018** 

Federal – Provincial – Industry

CFIA, CBSA, AAFC – CCVO's & Ag – CPC

National Working Groups

Putting Industry at the ICS Table



## **Provincial Emergency Operations**

#### Three Regional EOC's

- Industry
- Provincial CVO's
- Regional CFIA Managers



Foreign Animal Disease Preparedness

## Bringing Teams Together

#### EMERGENCY OPERATIONS CENTRES MEETING

NOVEMBER 25 – 26, 2019 GATINEAU, QUÉBEC



## **CPC NEOC Meeting**

- Prevention & Preparedness
- Destruction & Disposal
- Response & Operations
- Assessing Impact
- Zoning
- Communications



## **CPC NEOC Meeting**

"You fight the way you train, so you better train the way you want to fight"

Mike Johnstone



## Small Scale Producers

**Producer Manuals** 

**Social Media Campaign** 

**CPC** one-pagers





#### ASF RESEARCH PRIORITY RESOUCE ALLOCATION

**Developed by the Coordinated ASF Research Working Group** 

#### **WORKING GROUP MEMBERS:**

Andrew Van Kessel, Swine Innovation Porc Egan Brockhoff, Canadian Pork Council Alfonso Calvijo, National Centres for Animal Disease (for CFIA) Volker Gerdts, VIDO-InterVac Gabriela Guigou, Canadian Pork Council Paul Sundberg, Swine Health Information Centre Leslie Walsh, Swine Innovation Porc

## Research Working Group

SIP

**CPC** 

**NCFAD** 

**CFIA** 

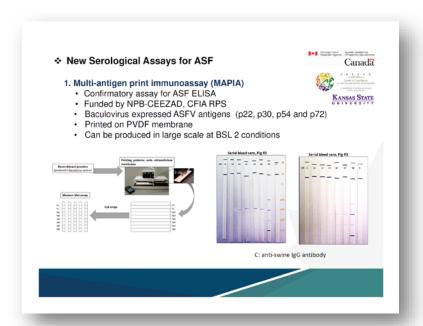
**VIDO** 

SHIC

#### **ASF Research in Canada**

- 1. Multi-antigen print immunoassay confirmatory assay for ASF ELISA.
- 2. Indirect & Competitive ELISA validation of commercial and inhouse kit.
- 3. Oral Fluid ASF Detection Study with 2 different ASF Viruses.
- 4. Field Validation of Oral Fluid for ASF Vietnam, USDA and Canada study.
- 5. Meat Exudate PCR Alternatives for ASF detection.
- 6. Highly Sensitive & Specific On-site Detection System for ASF testing and validation.
- 7. ASF Eradication diagnostics Ghana cooperative study.
- 8. Harmonization of NA labs project US, Canada, Mexico.
- 9. Viral Vector Vaccine Development Research
- 10. Antiviral Candidate Research





2. Oral fluid (OF) as a surveillance tool for detection of ASF in commercial herds Contd.





- ❖ A larger group of pigs (25-30) in a single pen with one pig exp. infected
- Two independent studies at the NCFAD Highly virulent ASF Georgia 07 Two independent studies at the FADDL - Moderately virulent ASF Malta/78
- Combined with direct observation and use of infrared cameras for detection of fever during sampling period
- Tested for ASF genome by real-time PCR (FADDL & NCFAD protocols)

3. Field Validation of OF Testing in an ASF- Affected Country





- MOU between CFIA & the Vietnam National University of Agriculture (VNUA)
- Upcoming Training, Setting up the NCFAD & FADDL ASF real-time PCR assays, oral fluid sample collection and portable assay validation









Cooperation
Collaboration



# Feed Risk Analysis PIPESTONE

**Industry Government ASF Working Group** 

Feed Imports NOT of Animal Origin



#### **Declaration – MARCH 2019**

Secondary Control Zones were declared by the Minister of Agriculture and Agri-Food under the *Health of Animals Act* 

An Order was made under the *Health of Animals Act*Designating Things as being capable of being affected or contaminated by ASF Virus

## **Notice to Industry**

Changes to import requirements for unprocessed grains and oilseeds, as well as associated meals destined for use in livestock feed

As of March 29, 2019, the following changes will come into effect for imports of unprocessed grains and oilseeds, as well as associated meals destined for use in livestock feed from those countries listed in <a href="Appendix 3">Appendix 3</a> of <a href="Imported for Use in Livestock Feed">Imported for Use in Livestock Feed</a> entering Canada through a declared secondary control zone. The declared control zones are those marine ports identified in <a href="Appendix 1">Appendix 1</a> of Import Requirements for Plant-based Feed Ingredients Imported for Use in Livestock Feed.

## **Secondary Control Zones**

# International Shipping Ports become Secondary Control Zones

- Vancouver
- Prince Rupert
- Toronto
- Montreal
- Quebec
- Halifax



## **Making People Aware**

#### WHAT'S HITCHING A RIDE IN YOUR FEED?



African swine fever (ASF) and other foreign animal diseases (FAD) can be transmitted via feed or feed ingredients imported from countries where these diseases are present.

Both contaminated feed ingredients and contaminated packaging can potentially carry live virus.



#### Holding feed ingredients in storage prior to feeding can reduce viral survival.

ime, temperature, the feed ingredient itself and the properties of the virus all impact survival time. All four of those factors are critical but a simple rule is, the higher the temperature the shorter the virus survival time.

Transport time of feed ingredients from China to Canada or Europe to Canada averages between 30 and 40 days. Those days count in our favour.

Recommended holding times before a feed or feed ingredient is used: 20°C for 20 days or 10°C for 100 days

#### Considerations to reduce the risk of viral transmission through feed ingredients:

- 1. Country of Origin selecting feed ingredients from regional sources reduces the risk of the introduction of a Foreign Animal Disease.
- 2. Supplier Selection ask your Feed Mills and Feed Ingredient Suppliers to select sources that are from countries free of Foreign Animal Disease when possible, or at minimum, are compliant with known quality assurance standardization such as ISO 22000 or FAMI-QS.
- 3. Feed Mills Select Feed Mills that are part of a recognized biosecurity program and participate in the Animal Nutrition Association of Canada's FeedAssure Program and follow their National Biosecurity Guide.



Current research has shown that feed ingredients can support viral survival and act as transport media to introduce diseases to your farm. The science on viral transmission via feed is still in its infancy and will continue to change but there is enough known to make general recommendations. This document is intended to inform decisions that may reduce the risk of viral transmission. It is not intended to guarantee the complete elimination of the risk of viral transmission via these potential routes.

#### Reality check:

- · Feed is one of many potential vectors of the virus
- · Exclusion of high-risk ingredients such as rice hulls and corn cobs from high-risk countries such as China, is currently the best strategy to keep feed and feed ingredients from bringing ASF into Canada.

Current supply chain constraints may limit producers' ability to completely avoid Chinese- or Asian-based ingredients, and it may not be necessary if the ingredient is unlikely to

#### Here's what you can do:

- · Have a chat with your suppliers
- · Review and improve your biosecurity

· Stay tuned for more research

Pork producers should work with their feed suppliers to minimize viral transmission risk from feed ingredients.



For more information on African Swine Fever and the potential impact on the Canadian herd: www.cpc-ccp.com/african-swine-fever

#### SHIC decision tree matrix to minimize viral transmission risk from feed ingredients

The decision tree and questions developed by the US-based Swine Health Information Center (SHIC) could help producers have conversations with their feed or ingredient supplier about the safety of their ingredients.





#### Low risk feed ingredients Synthetic amino acids packaged in individual,

High risk feed ingredients

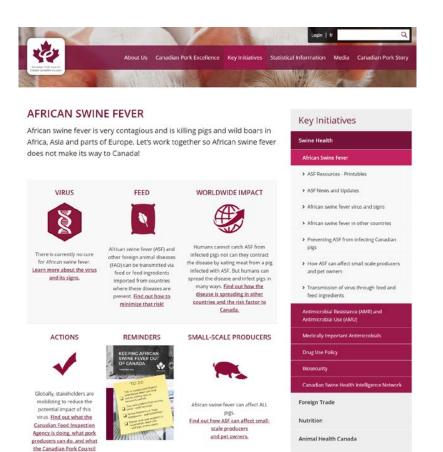
Rice hulls and corn cobs Conventional soybean meal Organic Soybean meal Soy oil cake Distillers dried grains with solubles Lysine hydrochloride Choline Chloride







#### **Resources and Communications**



Made-in-Canada Hog Price Index

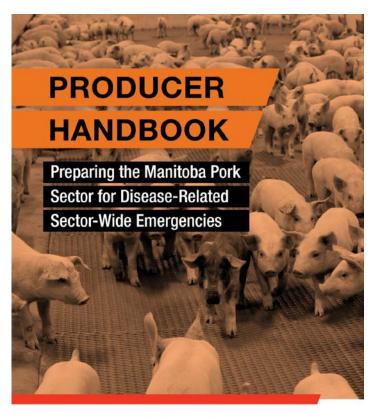


is doing.

#### **Resources and Communications**













Requires more attention:

ZONING

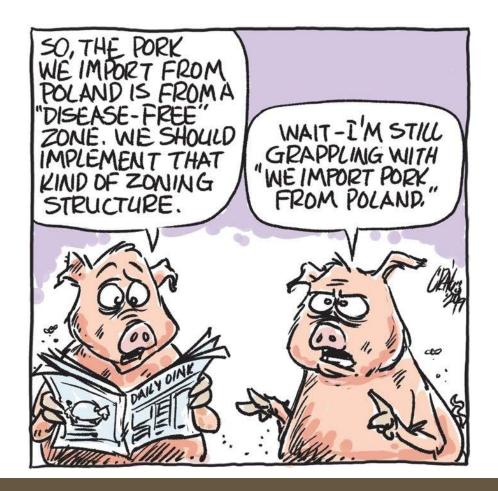
COMPARTMENTALIZATION

RESPONSE PROGRAMMING

**DESTRUCTION & DISPOSAL** 

COMMUNICATIONS

WILD PIGS



#### ZONING

#### Zoning at Speed?

- Surveillance
- Traceability
- Biosecurity

#### Recognizing Zones

- USA
- EU
- Who is next?
  - Japan
  - South Korea

#### Compartmentalization

- Industry
- CFIA
- CPC







## MLF ASF Compartmentalization Project: Opening Remarks and Workshop Objectives

Rory McAlpine November 21. 2019 Ottawa, Canada



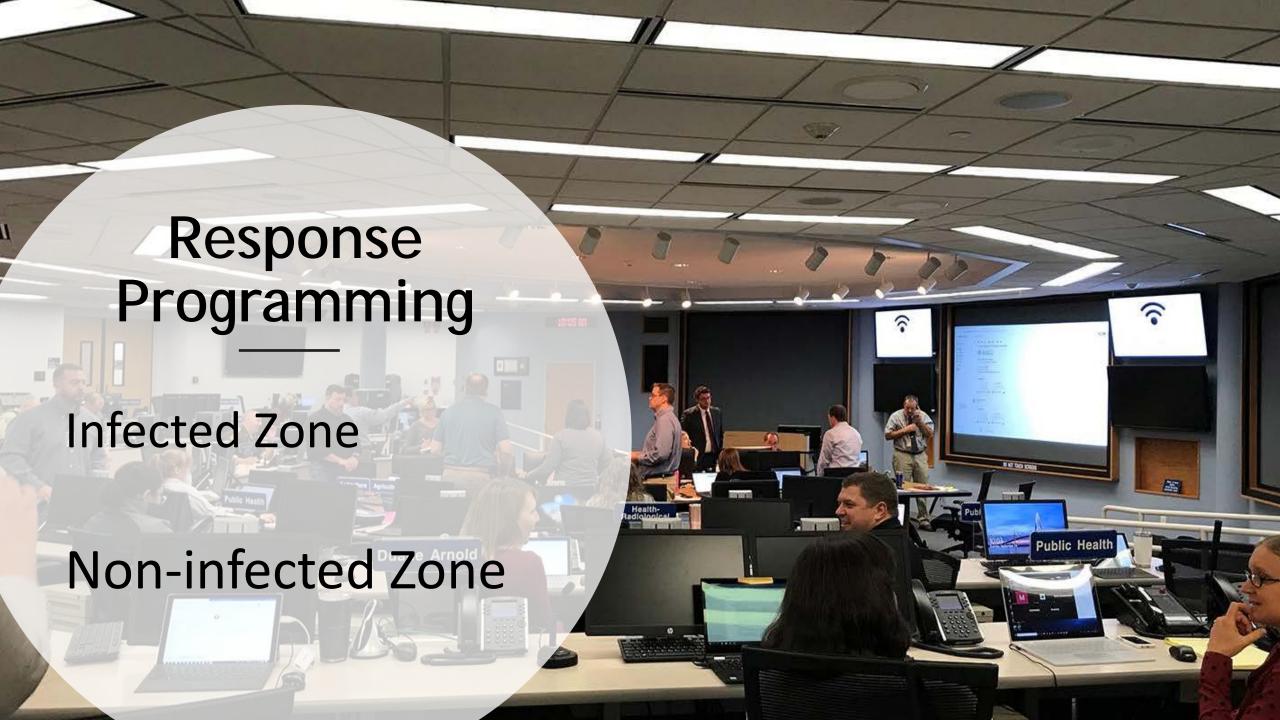
Destruction / Disposal

Humane – Sans cruauté

At Speed - Rapide

Environmentally Sound Sans danger pour l'environnement

Need Options *Besoin d'options* 





# CRISIS COMMUNICATIONS Are You Prepared?

#### Wild Pigs

**Surveillance** 

Location

Management

**Eradication** 



Environment and Climate Change Canada funding to Canadian Wildlife Health Cooperative

# What are the next steps?

#### MAINTAIN THE MOMENTUM

**ZONING & COMPARTMENTS** 

ADVOCACY – RESPONSE PROGRAMMING

**DESTRUCTION & DISPOSAL** 

STRATEGY IMPLEMENTATION

WILD PIGS

## Common Goals

Keeping ASF out of NA

**Industry Preparation** 

Bringing Focus to our Plans

# AFRICAN SWINE FEVER ECONOMIC IMPACT

## #porkadvocate

