Surveillance Advances Progrès dans le domaine de la surveillance

Canada's Surveillance Efforts for HPAI in Dairy Cattle and Beyond

Les efforts de surveillance du Canada pour l'IAHP chez les bovins laitiers et au-delà

January 28, 2025

12:00 - 1:00pm CT / 1:00 - 2:00pm ET

Speaker

Dr. Murray Gillies

Interim Director, Canadian Animal Health Surveillance System, Animal Health Canada



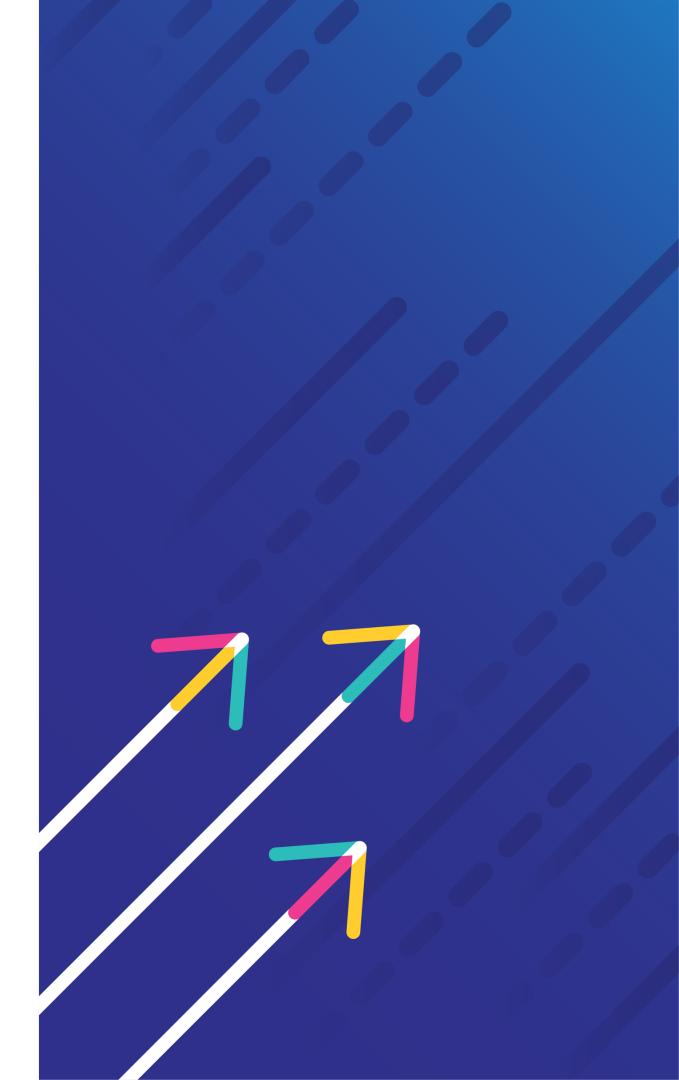
National Collaborating Centre for Infectious Diseases

Centre de collaboration nationale des maladies infectieuses



Public Health Agence Agency of Canada public

Agence de la santé publique du Canada



Land Acknowledgment:

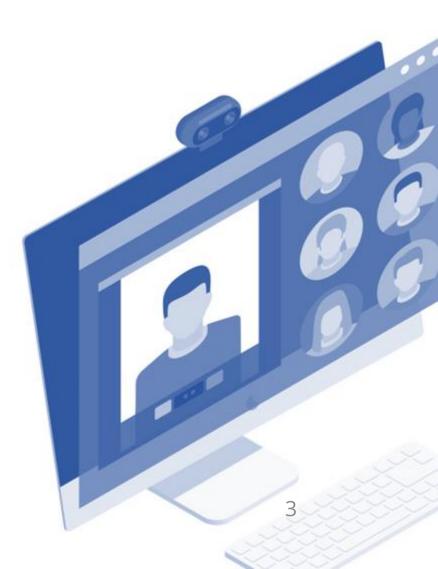
Both moderators are located in the City of Hamilton, Ontario.

Situated upon the traditional territories of the Erie, Neutral, Huron-Wendat, Haudenosaunee and Mississauga Peoples, this land is covered by the Dish With One Spoon Wampum Belt Covenant, an agreement between the Haudenosaunee and Anishinaabek to share and care for the resources around the Great Lakes.

Today, Hamilton is home to many Indigenous Peoples from across the Turtle Island. We honour the Indigenous Peoples who have lived on and cared for these lands for generations. We are grateful for the opportunity to share and call this place home.

Housekeeping

- Seminar recording and presentation slides will be available shortly after the seminar at the NCCID website: <u>https://nccid.ca/</u>
- If you have technical problems with Zoom, please email us at nccid@umanitoba.ca
- The chat box for participants has been disabled for this session. We will use the chat box to share additional information.
- Please use the Q&A tab to submit your questions for our speakers. \bullet You can "like" other people's questions to push them up in priority

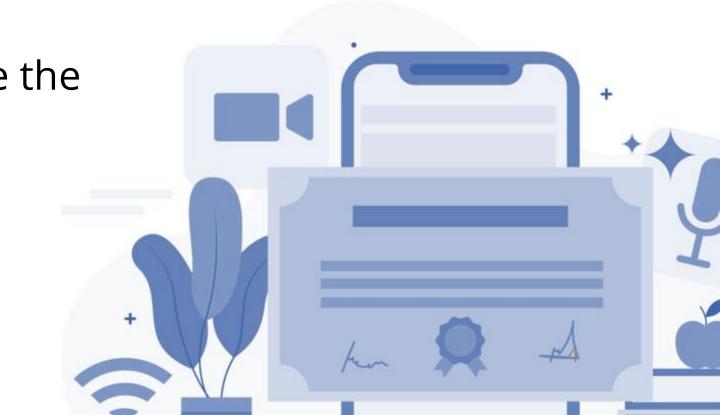


Accreditation

Surveillance Advances is a self-approved group learning activity (Section 1) as defined by the Maintenance of Certification Program of the **Royal College of Physicians and Surgeons of Canada**.

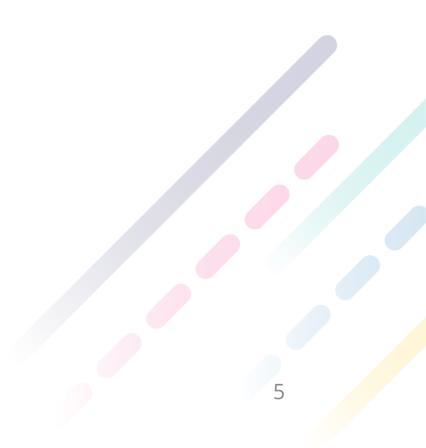
The seminar series is also approved by the Council of Professional Experience for professional development hours for members of the **Canadian Institute of Public Health Inspectors**.

If you would like a letter of participation, please complete the survey which will be shared after the seminar.



Disclaimer

Please note that the views expressed, and content presented are solely those of the speaker(s), unless otherwise specified. These do not necessarily reflect the views or initiatives of Public Health Agency of Canada. The Surveillance Advances Seminar Series is committed to fostering a space for diverse ideas and meaningful dialogue, but does not endorse or approve the content, accuracy or completeness of the information presented.



Today's speaker



Dr. Murray Gillies

Interim Director, Canadian Animal Health Surveillance System, Animal Health Canada



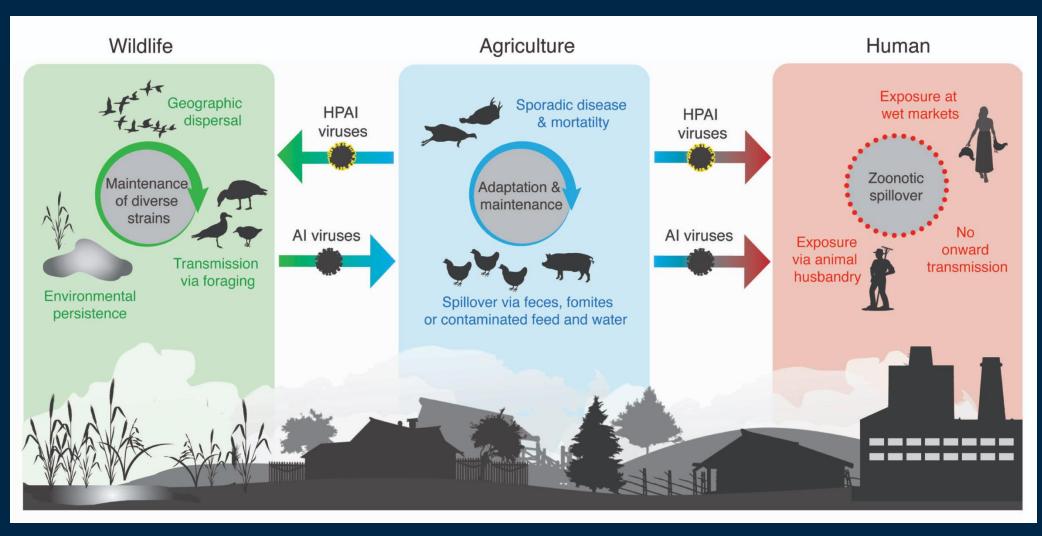


AnimalHealthCanada



CAHSS Surveillance for HPAI

January 28th , 2025



Dr. Murray Gillies

Coordinator Canadian Animal Health Surveillance System (CAHSS) A division of Animal Health Canada

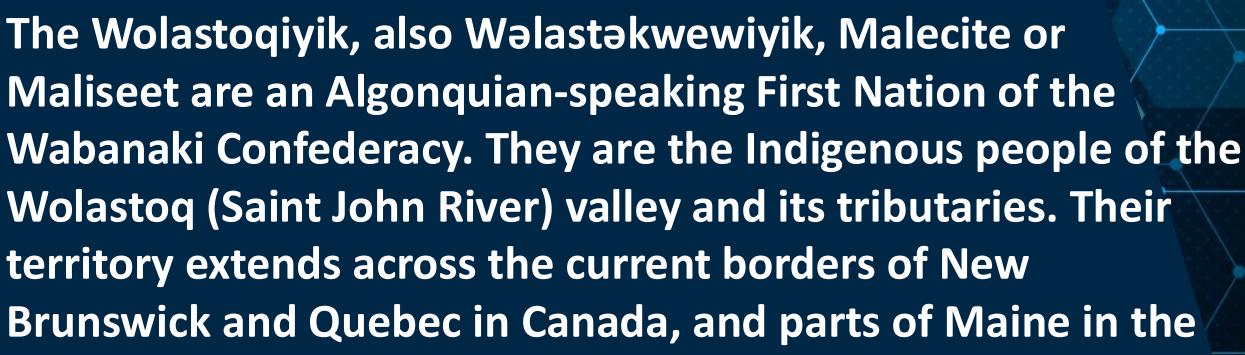


Land Acknowledgement

Before I share my presentation, I wanted to acknowledge the land that I work, live and play on is the traditional unceded territory of the Walastakwiyik (Maliseet). This territory is covered by the "Treaties" of Peace and Friendship"



territory extends across the current borders of New **United States.**





Conflict of Interest disclosure



I do not have a financial relationship with a forprofit and/or a not-for-profit organization to disclose



Presentation Outline

Surveillance 101
HPAI outbreak and US situation
Canada's surveillance efforts
How can you participate
Questions/Discussion

Canadian Animal Health Surveillance System

Epidemiology 101 – basic terms

Epidemiology: the study of how often diseases occur in different groups of people / animals and why.

Disease surveillance: an information-based activity involving the collection, analysis, interpretation and sharing of large volumes of data originating from a variety of sources.

One Health: that the health of humans, domestic and wild animals, plants, and the wider environment (including ecosystems) are closely linked and interdependent.

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Mystery Texas Disease?

15 March 2024

Developing Story: Concerns Rise as Cows Fall Ill in Texas

March 20, 2024

Avian flu detected for first time in US livestock



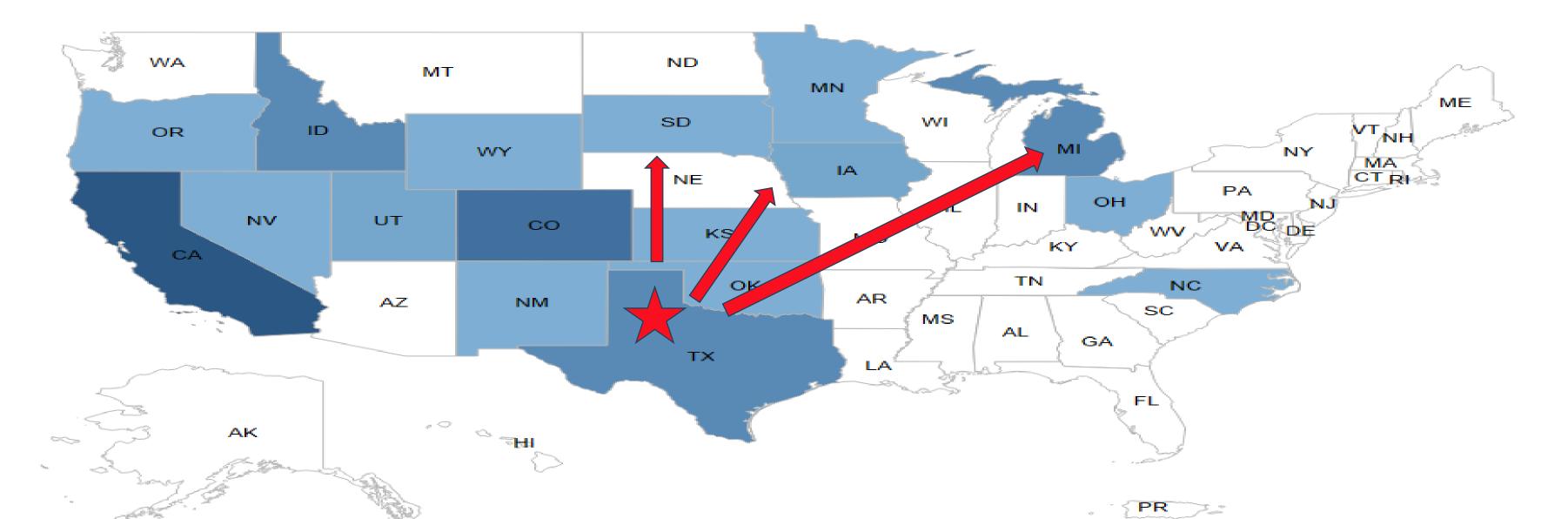
HPAI Confirmed Cases in Livestock Herds Reporting period: March 25, 2024 through January 23, 2025 Last reported new confirmed case: Tuesday, January 21, 2025 The genetic sequence for all cattle cases and the alpaca case is Influenza A, H5, clade 2.3.4.4b, genotype B3.13; the backyard swine were associated with a backyard poultry flock and confirmed as the same genotype as the poultry on the premises: Influenza A, H5 clade 2.3.4.4b, genotype D1.2.

Data updated weekdays by 12pm Eastern

Choose time period	Choose species	
Total Outbreak •	Livestock (all) 🔻	Situational Update
	In the T	Fotal Outbreak in Livestock (al

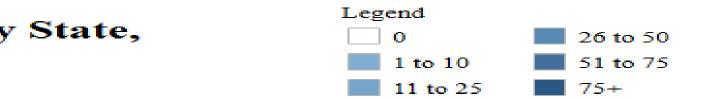
Dutbreak, in Livestock (all), there were: 939 Confirmed Cases in 17 States

Number of Confirmed Cases in Livestock (all) by State, **Total Outbreak**



Download Data

Click for International Exports



CAHSS convenes HPAI scientific working group

- CFIA
- PHAC
- OCVO's
- Provincial vet epi's
- Regional animal health surveillance networks
- Dairy Industry ightarrow
- EDCC
- CWHC ightarrow

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CFIA undertakes retail milk sampling

As of September 5, 2024, CFIA laboratories have tested 1,211 retail milk samples from across Canada tested **negative**.

Results of the Canada-wide testing of retail milk samples are listed below.

Area	Samples tested	HPAI detections (positive or ne
Atlantic provinces	302	All negative
Ontario	307	All negative
Quebec	302	All negative
Western provinces	300	All negative

Donald Prater, D.V.M., Acting Director of the U.S. Food and Drug Administration's Center for Food Safety and Applied Nutrition, revealed that <u>one in five</u> samples collected in a national survey of retail milk has tested positive for HPAI H5N1 genetic material. The samples with the highest concentrations were sourced from regions where the virus had been confirmed in dairy cattle.



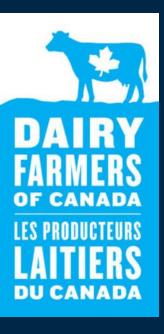
CFIA convenes surveillance meetings

- Industry:
 - CFIA
 - DFC
 - DPAC



Canadian Food Inspection Agency

Agence canadienne d'inspection des aliments



Veterinary Surveillance and Epidemiology Network:

- CVO's
- Provincial vet epis
- CAHSS



Dairy Processors Association of Canada Association des transformateurs laitiers du Canada

AnimalHealthCanada







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National Milk Testing Strategy



Begin National Plant Silo Monitoring

Begin nationwide testing of milk silos at dairy processing facilities. This national sample will allow USDA to identify where the disease is present, monitor trends, and help States identify potentially affected herds.



Determine State Status

Building on the results of silo monitoring, USDA will work with States to stand up bulk tank sampling programs. This will enable us to identify herds in the State that are affected with H5N1.

Detect and Respond to the Virus in Affected States

For States with H5N1 detections, we will work quickly to identify specific cases and implement rapid response measures. This includes enhanced biosecurity using USDA's existing incentives programs, movement controls, and contact tracing.

Continue regular sampling of farms' bulk tanks. Bulk tank sampling frequency will progressively decline as the State demonstrates continual silo negativity.

If a State becomes affected, it will return to stage 3.

www.aphis.usda.gov/animal-health



Demonstrate H5 Absence in Unaffected States

Demonstrate H5 Freedom in U.S. Dairy Cattle

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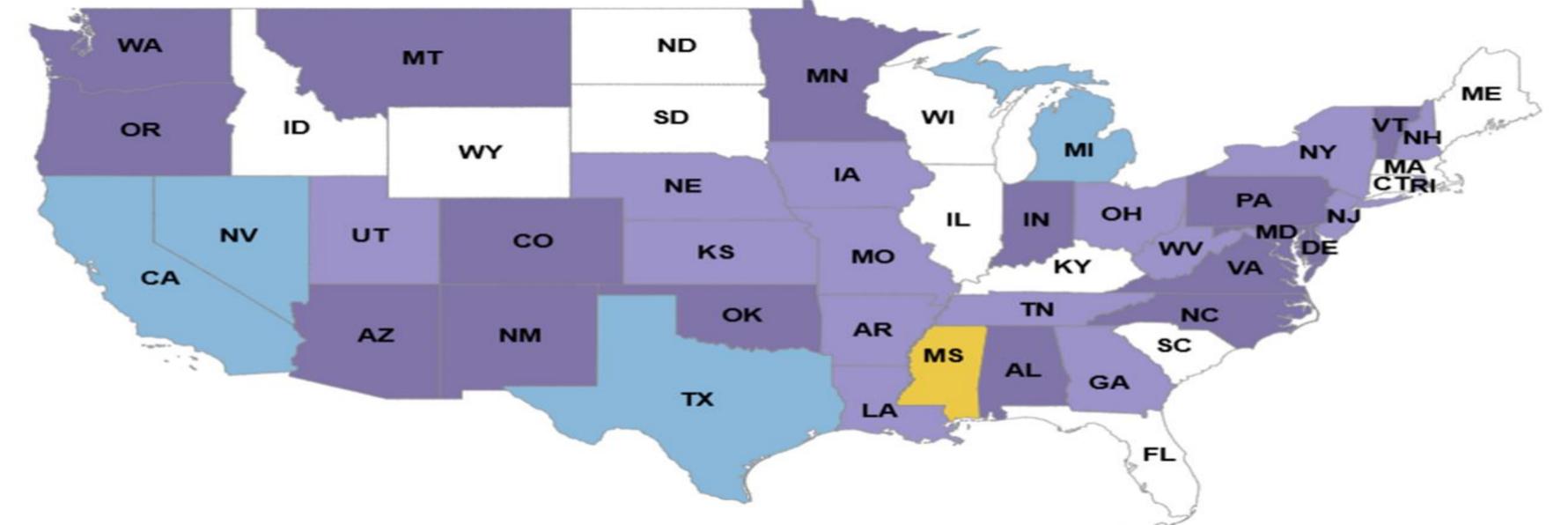
After all States move through stage 4, we will work with the States to begin periodic sampling and testing to illustrate long-term absence from the national herd.



Surveillance of H5 Avian Influenza in Dairy Cattle State Statuses based on Testing/Surveillance Activities, as part of the National Milk Testing Strategy (NMTS) Report Date: January 17, 2025 Data updated every Friday by 5 pm Eastern

State Counts: 43 Provisional Unaffected / 4 Affected / 1 Unaffected





Not Enrolled in NMTS (other testing may be taking place) Enrolled in NMTS, Stage 1 (National Plant Silo Monitoring) Enrolled in NMTS, Stage 2 (State-level bulk tank testing) HPAI Detected, Stage 3

Surveillance results

Results of the Canada-wide testing of raw (unpasteurized) milk samples coll

Area	Samples tested
Atlantic provinces	123
Ontario	366
Quebec	479
Western provinces	464



All negative

All negative

All negative

All negative



What other activities have we done in Canada

- Collaborative multi-stakeholder approach (FPTI)
- Risk Assessment for Canada (CEZD)
- Education, Surveillance and Data Synthesis (CAHSS)
- **Biosecurity (AHC and DFC)**
- Response dERP (CFIA and OCVO's)
- Public Health guidance (PHAC)
- Dead bird HPAI surveillance (CWHC)
- Environmental HPAI surveillance (ECCC)
- Early Warning System development for avian influenza (DLSPH-UoT)

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What is CAHSS?

Canadian Animal Health Surveillance System







Animal Health Canada

ADVANCING ANIMAL HEALTH AND WELFARE IN CANADA VISION

A sustainable agriculture and agri-food sector strengthened by an inclusive industrygovernments partnership protecting the health and welfare of farmed animals.

OUR DIVISIONS

NATIONAL FARM ANIMAL CARE COUNCIL

The division is comprised of animal agriculture and food industry groups, animal welfare advocates, government representatives, scientists, and veterinarians. It addresses national animal care issues with a primary focus on animals raised for the production of food for humans.



EMERGENCY MANAGEMENT

The division is enhancing the The division advises on national animal health surveillance priorities emergency management capabilities of Canada's livestock industry, for and disease patterns. It is focused both a continually evolving disease on the generation, exchange and application of data-driven information landscape and adverse events, through increased industry in order to track animal health, and rapidly detect and respond to awareness, capacity, and confidence. changing patterns of disease.



CANADIAN ANIMAL HEALTH SURVEILLANCE SYSTEM



Network of Networks



Mission

CAHSS brings together and uses data-driven information to demonstrate animal health, minimize impacts of disease, and guide planning on national animal health priorities.

From Surveillance to Action to Success

- Early threat identification
- Risk assessment
- COLLABORATIVE Action Plan
- Action
- Refinement

Success

"As of January 28th, 2025, Canada has not seen an incursion of HPAI in our dairy herd despite being at high risk"

AnimalHealthCanada





Acknowledgement

Funding for CAHSS activities has been provided through the Agri Assurance Program under the Sustainable Canadian Agricultural Partnership, a federal-provincial-territorial initiative.



PARTENARIAT **CANADIEN** pour AGRICULTURE

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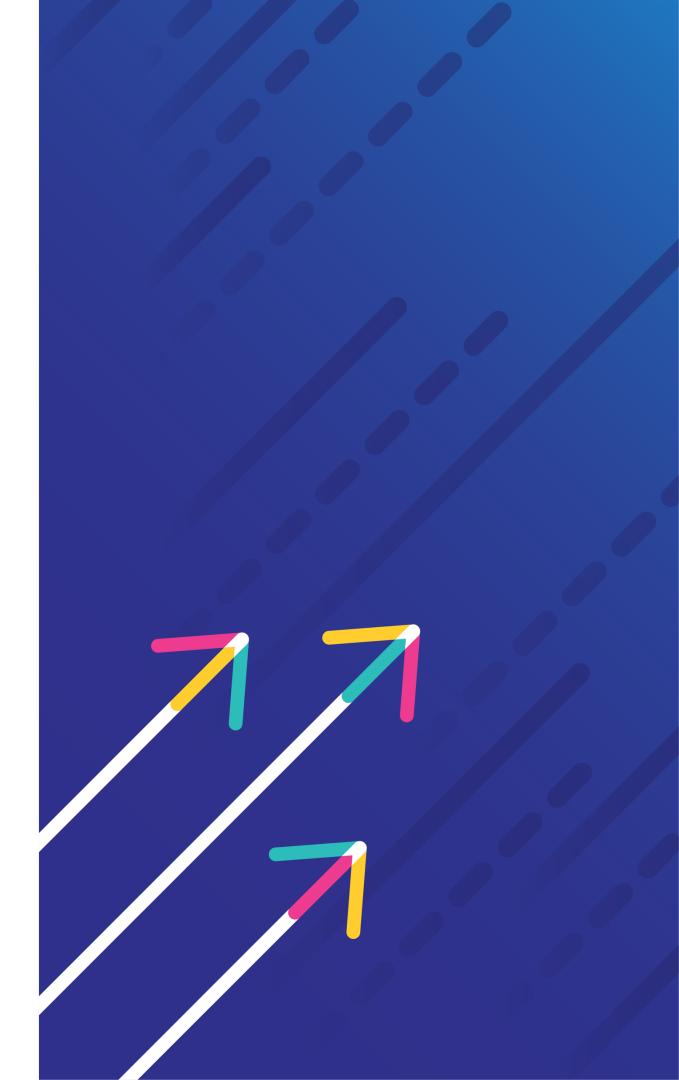




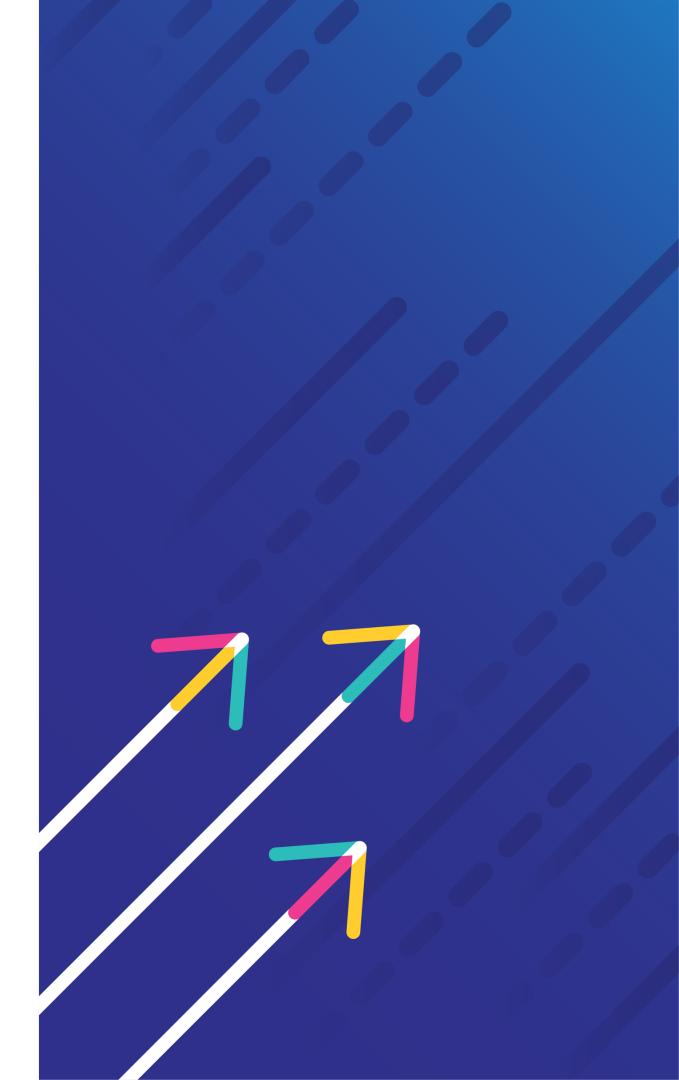
Discussion Period

Any questions?

Please use the **Q&A tab** to submit your questions for our speaker. You can "**like**" other people's questions to push them up in priority.



Closing Remarks



Thank You!

Seminar recording and presentation slides will be posted on <u>https://nccid.ca/</u> in the coming weeks.

Please complete our **post-seminar evaluation survey** by scanning its QR code. Today's survey will also be distributed to you shortly after the seminar.

Join us on **Tuesday, February 25, 2025** (1:00-2:00pm ET) for the next seminar, "**Final report launch for Vision 2030: Moving data to public health action**"

Visit <u>https://nccid.ca/surveillance-advances-seminar-</u> <u>series/</u> for more information about the Surveillance Advances seminar series.

