

Movement Controls – HPAI Experience

Harold Kloeze, March 28, 2023, Ottawa



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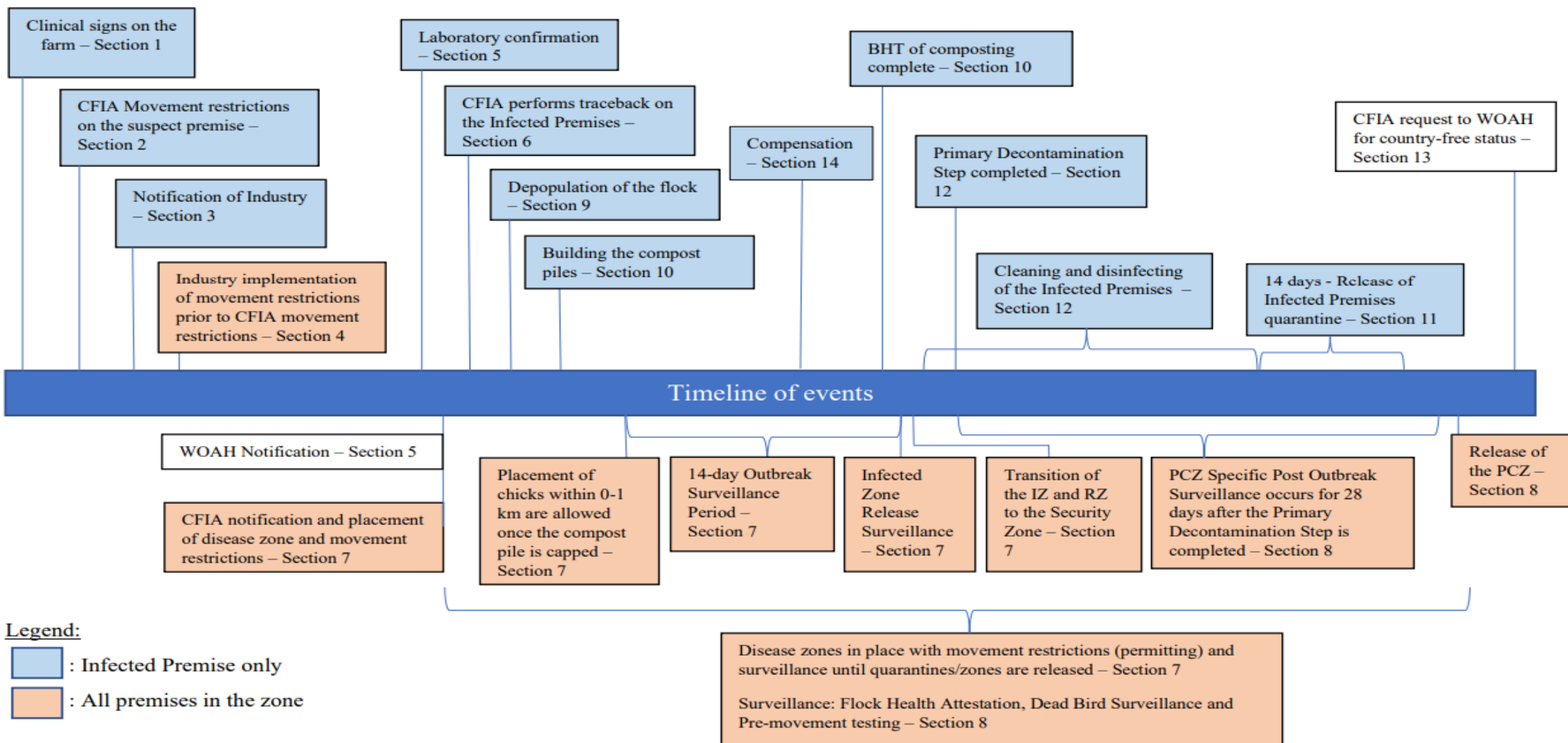
Outline

1. Introduction
2. Zones and some process steps
3. Complicating issues
4. Permitting site
5. FBCC and Ontario 2022/23
6. Hazard specific vs all hazards planning (ASF vs AI)
7. Conclusion

Movement Controls in AI

- This is not authoritative, CFIA is the authoritative source of information on zones, permitting and all other regulatory aspects of reportable disease management in Canada.
- CFIA may utilize various instruments to facilitate disease response – for example “order destroyed” may come with a letter of direction where CFIA takes the lead and responsibility
- There is no “one size fits all”

The diagram below provides an overview of the projected steps and timeline of events for managing a case of Avian Influenza in a commercial Primary Control Zone.



Control Zones

- There are two Control Zone options that CFIA has used for controlling Avian Influenza:
 - 1) Avian Influenza Control Zone
 - 2) Primary Control Zone
- The difference between the two zones is how CFIA controls movement. The Avian Influenza Control Zone requires licenses for movement on and off individual premises, whereas the Primary Control Zone requires permits for movements of all poultry and poultry by-products into, out of, within and through the Control Zone.

Control Zones

- In 2004 British Columbia the zone encompassed all of the Fraser Valley and lower mainland



- In 2022/23 we are up to 176 across Canada (March 13, 2023)

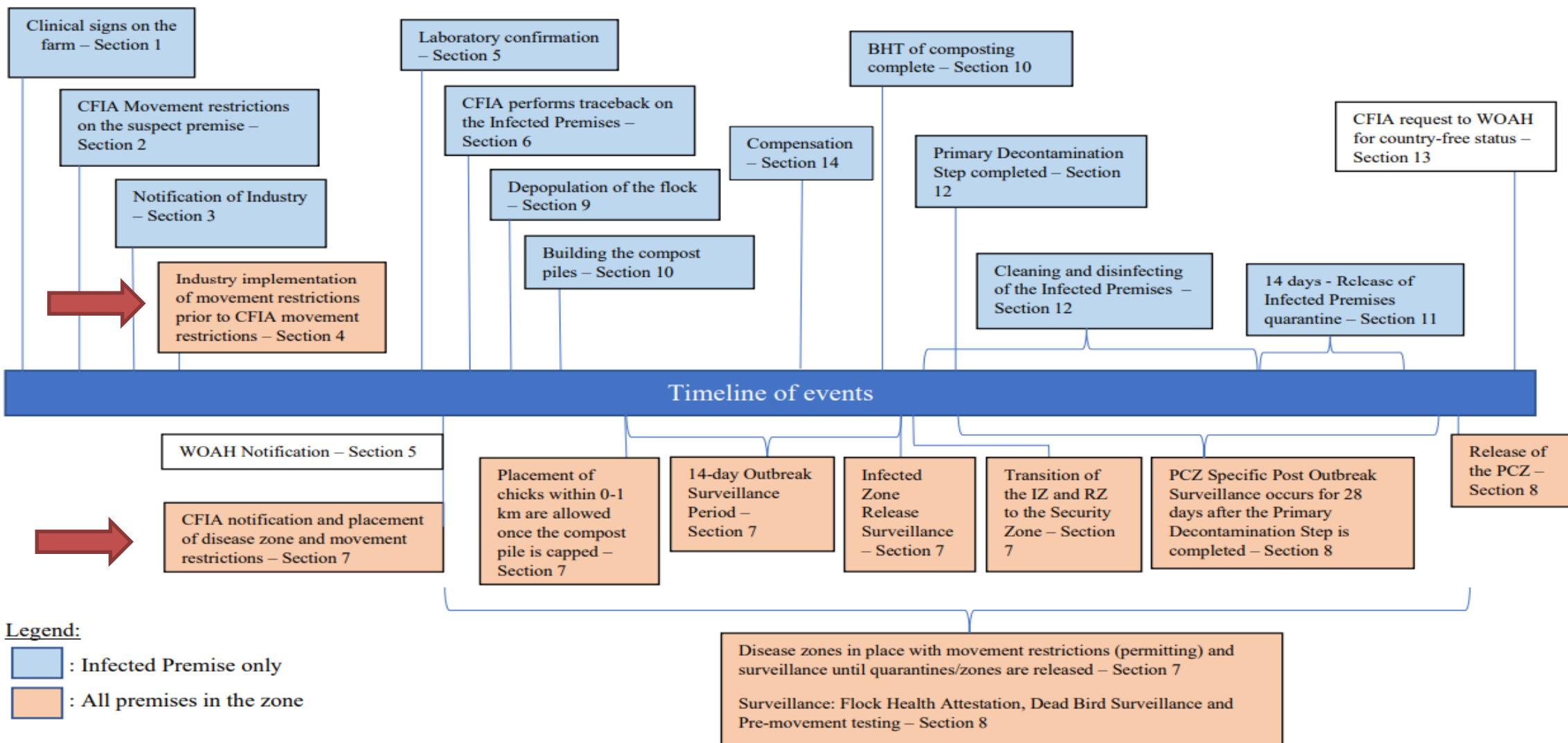
Ontario Order- repeated in September

- The provincial government of Ontario has banned the movement to and participation of birds in events where they congregate as of April 9, 12:01AM, 2022 as a means to halt the possible spread of *Highly Pathogenic Avian Influenza (HPAI) H5N1*.
- Following the advice of the Chief Veterinarian for Ontario, the Honourable **Lisa Thompson**, Minister of Agriculture, Food and Rural Affairs has, via the *Animal Health Act, 2009*, issued the order to limit commingling of birds from different locations to reduce the risk of disease transmission.

Suspicion of Infected Place

- In Ontario in March 2023 when there is a high risk premises CFIA alerts FBCC.
- FBCC and the Feather Boards (TFO, CFO, EFO, OBHECC) may issue an advisory which may lead to voluntary changes in movements
- Formal movement controls are instituted upon declaration of a zone

The diagram below provides an overview of the projected steps and timeline of events for managing a case of Avian Influenza in a commercial Primary Control Zone.



Types of Movement Restrictions

- Voluntary – Industry led, at the suspicion stage for high risk situations or at any time
- Federal under Health of Animals Act
- Provincial in Ontario under section 24 of the *Animal Health Act, 2009*

Control Zones

- Based on risk
 - Pathogen
 - Species affected
- Based on International Agreement
- Based on practical considerations
 - Inclusion of feed sources and slaughter
 - Geography
 - Business interactions

Control Zones

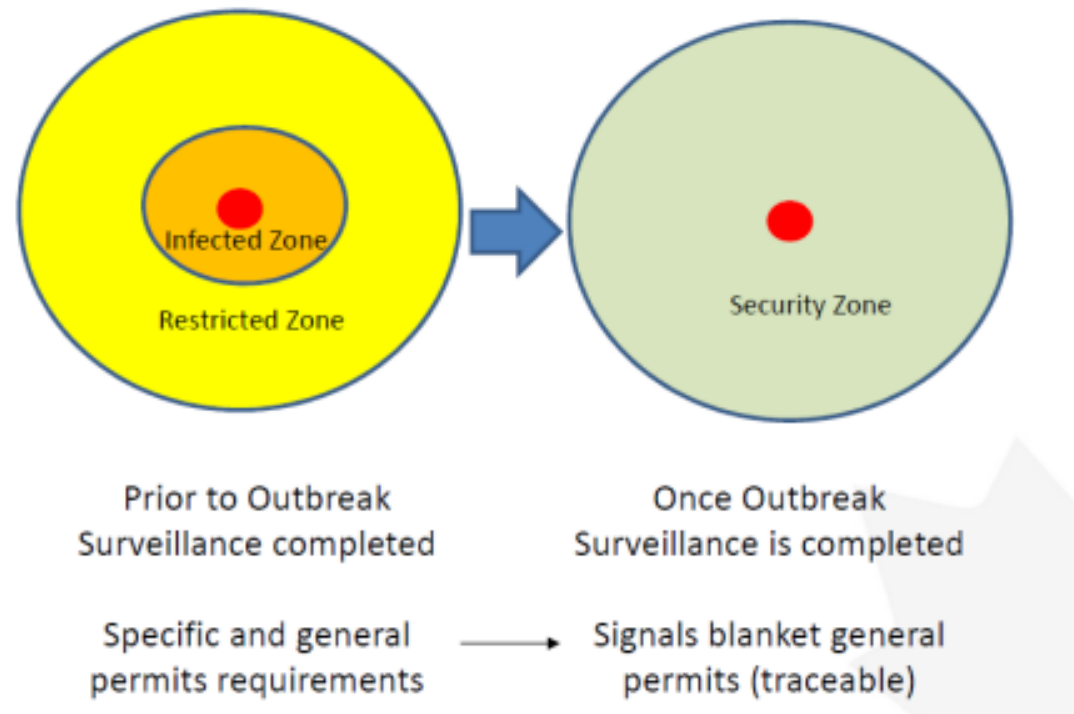
- Specific to the pathogen
- Will drive many other decisions on movement control and permitting
- Small circular (roughly) vs larger areas
 - For Avian Influenza CFIA rationalizes the zone to roads
 - Three km infected zone, 10 km restricted zone

Enter placename, postal code, street address, NTS number...



- Commercial- Infected zone
- Commercial- Restricted zone
- Commercial- Security zone
- Non-commercial - Infected zone
- Non-commercial - Restricted zone
- Non-commercial - Security Zone
- Revoked zone

Infected zone until 14 days of outbreak surveillance are completed, this may start once disposal is complete or compost piles are capped (infectious material is contained)



Active Surveillance Procedures in the Different Zones:

Type of Surveillance	Commercial Primary Control Zone			Non-Commercial Primary Control Zone
	Infected Zone (0-3km)	Restricted Zone (3-10km)	Security Zone	Infected Zone and Restricted Zone
Baseline Surveillance	Only for ducks and geese			
Dead-Bird Surveillance during the Outbreak Surveillance Period	2x/week			
Passive Surveillance/Sick-bird calls	X	X	X	X
Pre-Movement Testing	X	X		
Pre-Movement Flock Health Attestation	X	X		
Infected Zone Release Surveillance	X			
Primary Control Zone Post-Outbreak Specific Surveillance to revoke the PCZ			X	X

Complicating Issues

- Laboratory Capacity
 - For avian influenza the CAHSN system of laboratories assists provinces with permitting
 - CAHSN does AI, Newcastles, CSF and FMD
 - ASF is added but it is not clear if all network laboratories are accredited
- In 2004 CFIA chartered a commercial jetliner to move samples from BC to Winnipeg, sample turnaround time was days, today in Ontario the AHL laboratory does the testing within 24 hours
- Movements require testing and that requires laboratory capacity

Complicating Issues

- Trained personnel
 - CFIA is moving from DOING to using their legislative authority to ORDER
 - This is in part due to difficulties in staffing and burnout
 - In 2004 CFIA did everything including disposal of birds
- For the Ontario poultry industry this has led to a movement of actions to industry which has been possible due to the extensive field staff associated with the feather boards and associated structures such as Poultry Industry Council, Ontario Livestock and Poultry Council and FBCC
- This may be more problematic in other industries but CFIA will be looking for any and all help possible. On occasion FBCC and partners may move to take on even more responsibility as it assists our industry

Complicating Issues

- **CFIA is not unitary, there are many parts**
 - Atlantic
 - Quebec
 - Ontario
 - Western (may really be Prairies and BC separately)
 - National

 - Science
 - Operations
 - Policy and Programs

 - NEOC
 - REOC

Disease response is normally done at REOC level with NEOC involvement, Decision Records may not extend nationally

For the Swine Influenza situation in Alberta the decisions were at a NEOC level due to public health and international considerations

Complicating Issues

- Public Health Aspects

- Likely not an issue for ASF as there is not really a problem with zoonotic spread
- For AI we have had requirements for Tamiflu administration, influenza vaccination and with this strain there is discussion of follow up actions being considered for those exposed in light of mammalian transmission and human infections
- Public Health will make such decision as they feel is necessary
- This may not directly affect permitting but it will affect sample collection as there is exposure to potentially infectious material

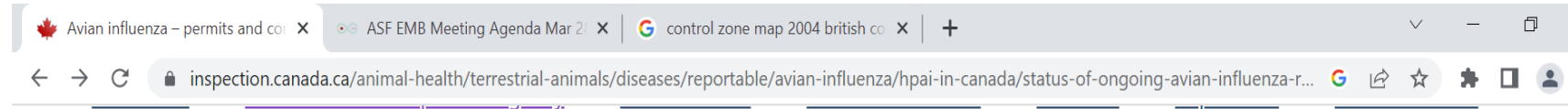
Decision Records and Scientific Advice

- Many of the current processes for AI are derived from experience and are codified in “decision records” during an outbreak
- These document deviations from the original processes which may be documented
 - Permitting
 - Sampling
- Risk Assessments, Scientific Advice are used for more consequential decisions such as methods of disinfection
- This means that each aspect of response is subject to change

Permits

Two classes of Permits

1. General
2. Specific



> [HPAI in Canada](#) > [Status of ongoing avian influenza response](#)

Avian influenza – permits and conditions needed for movement control

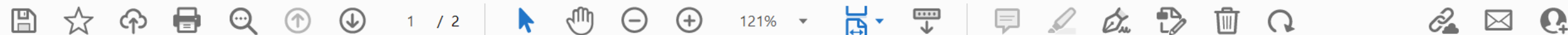
The Minister of Agriculture and Agri-Food has [declared primary control zones \(PCZ\)](#) to prevent the spread of highly pathogenic avian influenza (H5N1) in Canada. As a result of this declaration, birds, their products and by-products, as well as things exposed to birds cannot be moved into, out of, within, or through PCZ except by permission. There are 2 permits available, a [general permit](#) and a [specific permit](#).

The type of permit required will depend on whether you are located in a commercial PCZ or a non-commercial PCZ. You can verify if you are located in a PCZ and the type of PCZ using the listing of [infected premises](#).

Domestic use (for personal use) and distribution of retail meat, meat products, fully cooked meat, egg product and processed egg are exempt from permitting requirements. The movement of pet birds within Canada, provided they are kept in a single household and have no direct or indirect contact with poultry, poultry facilities and other captive birds, is also exempt from permitting requirements.

Use the interactive tool below for information on the required permit along with conditions for the transportation of





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GENERAL PERMIT
Section 27 of the *Health Of Animals Act*
Movement of Designated Things Into or Within the Primary Control Zone (PCZ) Declared
in Respect of Notifiable Avian Influenza (NAI)

The Minister of Agriculture and Agri-Food has declared a Primary Control Zone (PCZ) in order to prevent the spread of NAI. As a result of this declaration, birds, their products and by-products, as well as things exposed to birds cannot be moved into, out of, within, or through the primary control zone except by permission.

As a designated inspector under subsection 13(3) of the Canadian Food Inspection Agency Act for the purposes of the Health of Animals Act, I hereby give permission for the movement of birds, their products and by-products, as well as things exposed to birds to move into, out of, within, or through the primary control zone provided conditions are met for the type of bird, product, by-product or things to be moved.

BIOCONTAINMENT CONDITIONS FOR GENERAL PERMITS**VEHICLE**

- i. All movements of live animals which include susceptible species or their by-products (which include deadstock, offal, or manure) into, out of, within or through a Primary Control Zone must be transported directly to the premises of destination. Stops must be restricted to a minimum: for example refuelling, emergencies, etc. If an emergency stop is made at a premises with susceptible species, please contact CFIA before continuing.
- ii. All movements of poultry product (which includes hatching eggs, table eggs and egg product, meat, and processed meat products) into, out of, within or through a Primary Control Zone must be transported using a direct route with multiple destinations limited to within the Restricted Zone only. Transport through the Infected Zone must be directly from the origin to the premises of destination.
- iii. Routes must avoid areas with a high density of farms containing susceptible species. Use paved roads whenever possible. If the vehicle must drive



GENERAL PERMIT
Section 27 of the *Health Of Animals Act*
Transportation Information to Accompany Animals, Products, By-products and/or Things
Moved Under a General Permit

Date of Application	A COPY OF THIS PERMIT MUST ACCOMPANY THE PRODUCT AT ALL TIMES	Serial Number
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INFORMATION TO BE RECORDED FOR DESIGNATED ANIMALS, PRODUCTS, BY-PRODUCTS OR THINGS MOVED UNDER A GENERAL PERMIT*

Planned Date of Movement (YYYY-MM-DD)

Multiple movements can be recorded under one General Permit if the 'Description of Animal, Products, By-products or Things', Consignor and Consignee are the same for each movement.

1	From Date*:		To Date*:		+
					-

DESCRIPTION OF THE ANIMALS OR THINGS

Specify the Animal or Thing

No.	Identification No. (if applicable)	Description of animal, carcass or product	Quantity/Volume	
1				+
				-
2				+
				-
3				+
				-

THE NAME AND CONTACT INFORMATION OF THE PERSON WHO OWNS OR HAS POSSESSION, CARE OR CONTROL OF THE ANIMAL OR THING DESCRIBED AT THE PREMISES OF ORIGIN

First Name*	Last Name*
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PERMISSION REQUEST FORM FOR THE MOVEMENT OF ANIMALS AND/OR THINGS UNDER THE AUTHORITY OF THE HEALTH OF ANIMALS ACT

Date of Application		Serial Number			
*Required fields must be filled or the application will not be processed					
REQUESTED PERMISSION INFORMATION*					
<input type="radio"/> New Permit		<input type="radio"/> Renewal of Existing Permit		<input type="radio"/> Amendment to Existing Valid Permit	
Planned Date of Movement (YYYY-MM-DD)					
From Date*:	<input type="text"/>	Time:	<input type="text"/>	To Date*:	<input type="text"/>
APPLICANT INFORMATION					
First Name*			Last Name*		
<input type="text"/>			<input type="text"/>		
Premises ID, if applicable, must be provided					
Business Name			Address*		
<input type="text"/>			<input type="text"/>		
City*	Province*	Postal Code*	Telephone No.*	Telephone No. (Mobile)	Fax
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Assistance with permits and movement control permissions in PCZs

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▼ Ontario

For assistance with permits and movement control permissions in the PCZ, email cfia.ontmovementlicandpermits-deplacementlicenceetpermis.acia@inspection.gc.ca

Small flock owners: contact the Small Flock Information Line at 1-888-292-5856, 8:00 am – 5:00 pm EDT (Monday to Friday, closed statutory holidays).

▶ Québec

birds and by-products in the PCZ.

*** Is your Movement into, out of, within, or through a Non-Commercial PCZ ONLY (required)**

+ No

*** What type of product are you moving? (required)**

+ Live birds

*** What type of live birds? (required)**

+ Live birds to slaughter (for domestic use only)

*** What type of movement involving a Commercial Primary Control Zone? (required)**

Out of or within the infected zone

Continue

✓ You will need a **specific** permit

Reach out to your [provincial contact](#) for assistance with permits and movement control permissions in PCZs

Permit type: Specific Permit (Single Use)

Export is prohibited.

Movement permission request form must be submitted to CFIA a minimum of 5 days prior to scheduled slaughter date.

Testing and Flock Health Requirements

- Completed pre-movement testing within 72 hours of scheduled movement or dead bird surveillance (DBS) once in the 72 hours prior to movement or dead bird surveillance twice in the week prior to movement. (Note: anseriformes – ducks and geese – must complete pre-movement testing within 72 hours of the movement if no dead bird surveillance available on the barn with the planned movement). Pre-

- <https://inspection.canada.ca/animal-health/terrestrial-animals/diseases/reportable/avian-influenza/hpai-in-canada/status-of-ongoing-avian-influenza-response/permits-and-conditions/eng/1648871137667/1648871138011>

Lessons Learned

- African Swine Fever
 - Exotic disease
 - Affects swine, little experience with emergency management at scale in Canada
 - Depopulation is problematic
- Avian Influenza
 - Not quite endemic
 - Affects poultry, repeated experiences in Canada
 - Have reasonably robust methods for depopulation

Differences

- All hazards planning vs pathogen specific
- Pathogen specific planning does not necessarily allow extension to all hazards.
- It actually may constrain planning as lessons are difficult to extend even with the same pathogen due to location, planning and disease strain differences.
- Avian Influenza in British Columbia in 2004 is very different from AI in Ontario in 2023
- CFIA has stated that significant changes in the strain of AI could lead to major revisions to their protocols

Partners

- *Originated in 2012*

Turkey Farmers of Ontario
Chicken Farmers of Ontario
Egg Farmers of Ontario
Ontario Broiler Hatching Egg and Chick Commission

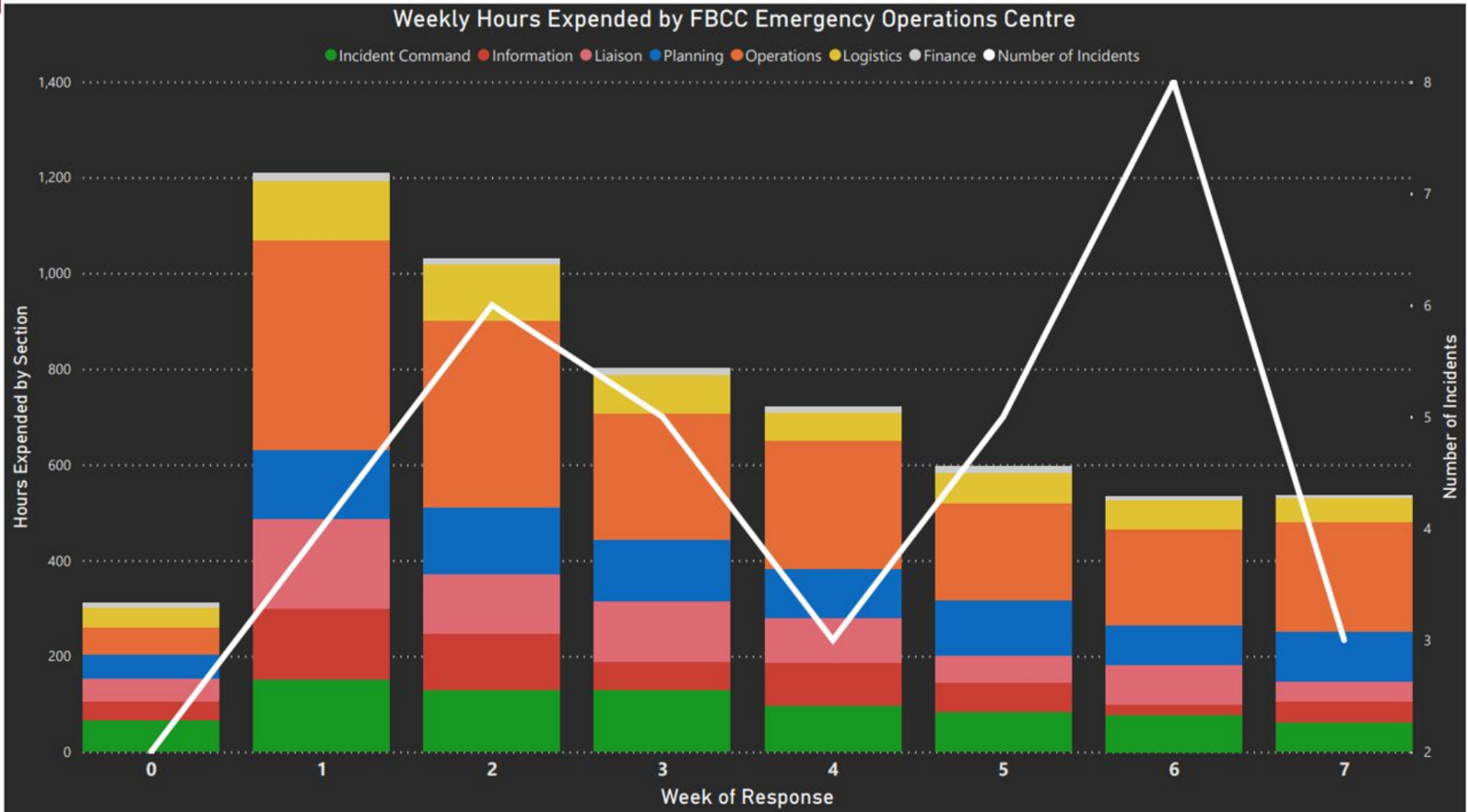
Poultry Service Association
Association of Ontario Chicken Processors
Ontario Hatcheries Association
Ontario Agribusiness Association



FBCC

FEATHER BOARD COMMAND CENTRE

FBCC EOC HPAI Outbreak-Wave 1 (Spring 2022)



We have been responding to the ongoing outbreak of **#AvianFlu** across Canada for over a year - but we are not working alone.

Thank you to federal, provincial, industry and **#AnimalHealth** partners as well as producers and owners of small flocks who are supporting disease response. **#CFIA** will continue to collaborate to respond while sharing knowledge, resources and lessons learned.

Partners include **Agriculture and Agri-Food Canada**, **Environment and Climate Change Canada**, **Public Health Agency of Canada | Agence de la santé publique du Canada**, **Government of British Columbia**, **Ontario Government | Gouvernement de l'Ontario**, **Ministère de l'Agriculture, des Pêcheries et de l'Alimentation du Québec (MAPAQ)**, **Government of Alberta**, **Chicken Farmers of Canada**, **Turkey Farmers of Canada**, **l'Équipe québécoise de contrôle des maladies avicoles (#EQCMA)**, the **Feather Board Command Centre**, **Canadian Veterinary Medical Association**, **Canadian Wildlife Health Cooperative**, **Canadian Animal Health Surveillance System**, **Ontario Animal Health Network** - and many more.

Stay up to date on the latest information about the ongoing **#AvianInfluenza** response: <https://bit.ly/3JkJLuF>

#BirdFlu #HPAI



FBCB is one of many partners

Avian Influenza is one disease

Currently planning nationally and provincially

Most Recent Change

NEW Process	OLD Process
Provide producer information within 24 hours along with imminent movements	Provide a data dump of producer information and shipping and placement dates within 24 hours
Hold weekly meetings to update movements	Periodic requests for updated data

FBCC is made up of all the pertinent parties to allow for this updated method, processors, hatcheries, all four feather boards

Summary

1. Movement controls will be instituted immediately upon confirmation of disease and the scope and impact will depend on the spread of disease, the international situation and other factors such as the ability of industry and producers to adapt, a major consideration will be the size and type of control zone.
2. **The ability to collect and process samples will be key:**
 - Lab capacity
 - Training of staff, job hazard
 - This should be clarified ASAP, testing 100 kg swine is not like testing chickens, this should be identified
3. Support personnel from industry will be necessary to advise and support producers through the specific tasks associated with permitting, movement controls and the non disease control aspects of disease response (*Adobe 8 vs Microsoft Edge*)
4. If the permitting remains electronic the actual process is not onerous, everything else is however

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PAGE 3 Reports of space invaders only feds testing ability to handle outbreak of avian flu

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