

## Canada - Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-) - Follow-up report 9

### GENERAL INFORMATION

COUNTRY/TERRITORY OR ZONE	ANIMAL TYPE	DISEASE CATEGORY	EVENT ID
COUNTRY/TERRITORY	TERRESTRIAL	Listed disease	4438
DISEASE	CAUSAL AGENT	GENOTYPE / SEROTYPE / SUBTYPE	START DATE
Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	Highly pathogenic avian influenza virus	H5N1	2022/04/03
REASON FOR NOTIFICATION	DATE OF LAST OCCURRENCE	CONFIRMATION DATE	EVENT STATUS
Unusual host species	-	2022/05/02	On-going
END DATE	SELF-DECLARATION		
-	NO		

### REPORT INFORMATION

REPORT NUMBER	REPORT ID	REPORT REFERENCE	REPORT DATE
Follow-up report 9	FUR_160663	-	2023/05/02
REPORT STATUS	NO EVOLUTION REPORT		
Validated	-		

### EPIDEMIOLOGY

#### SOURCE OF EVENT OR ORIGIN OF INFECTION

- Contact with wild species
- Unknown or inconclusive

#### EPIDEMIOLOGICAL COMMENTS

We report the first case of a H5N1 highly pathogenic avian influenza (HPAI) virus in a feral cat, as well as additional skunks, red foxes and a raccoon. Additional unusual species are reported grouped by province. The geographical marker is on the capital. For detailed and current information on high pathogenicity avian influenza cases in wildlife, please consult : [http://www.cwhc-rcsf.ca/avian\\_influenza.php](http://www.cwhc-rcsf.ca/avian_influenza.php)

### QUANTITATIVE DATA SUMMARY

#### MEASURING UNIT

Animal

Species	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
dogs (domestic)	NEW	-	-	-	-	-

	TOTAL -	1	1	-	-	-
domestic cat (wild)	NEW -	1	1	-	-	-
	TOTAL -	1	1	-	-	-
striped skunk (wild)	NEW -	2	2	-	-	-
	TOTAL -	40	17	7	-	-
american mink (wild)	NEW -	-	-	-	-	-
	TOTAL -	2	1	1	-	-
harbor seal (wild)	NEW -	-	-	-	-	-
	TOTAL -	17	17	-	-	-
raccoon (northern	NEW -	1	1	-	-	-
raccoon) (wild)	TOTAL -	3	2	-	-	-
american black bear	NEW -	-	-	-	-	-
(black bear) (wild)	TOTAL -	2	1	1	-	-
red fox (wild)	NEW -	2	2	-	-	-
	TOTAL -	35	25	7	-	-
all species	NEW -	6	6	-	-	-
	TOTAL -	101	65	16	-	-

## DIAGNOSTIC DETAILS

### CLINICAL SIGNS

YES

### METHOD OF DIAGNOSTIC

Diagnostic test

Test name	Laboratory	Species sampled	Number of outbreaks sampled	First result date	Latest result date	Result
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	National Centre for Foreign Animal Disease (NCFAD), Winnipeg, Manitoba	Dogs, Striped Skunk, Harbor Seal, American Black Bear (black bear), Raccoon (Northern raccoon), American Mink, Red Fox	32	2022/05/02	2023/04/01	Positive
Gene sequencing	National Centre for Foreign Animal Disease (NCFAD), Winnipeg, Manitoba	Raccoon (Northern raccoon), Red Fox, American Black Bear (black bear), American Mink, Striped Skunk, Harbor Seal, Dogs	32	2022/05/01	2023/04/01	Positive

## CONTROL MEASURES

### CONTROL MEASURES AT EVENT LEVEL

### DOMESTIC ANIMALS

### WILD ANIMALS

## NEW OUTBREAKS

## OB\_117852 - QC-2023-HPAIM - QUÉBEC - MAMMALS

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
QC-2023-HPAIM	2023/01/01	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Québec	Communauté-Urbaine-de-Québec	Québec	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Québec - mammals	46.81 , -71.218 (Approximate location)	-	Animal

## AFFECTED POPULATION DESCRIPTION

The raccoon was found dead on an poultry infected premises (QC-IP32) reported as outbreak ob\_116575 in Event 4294. Cluster: Gene segments PB2, PB1, NP and NS belonging to North American lineage and gene segments PA, HA, NA and M belonging to Eurasian lineage (same as the one in poultry on QC-IP32)

Species (latin name)	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
raccoon (northern raccoon) (wild)	NEW	-	1	1	-	-	-
	TOTAL	-	1	1	-	-	-

## METHOD OF DIAGNOSTIC

Diagnostic test

## CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-

## UPDATED OUTBREAKS

## OB\_114384 - PEI-2022-HPAIM-003 - PRINCE EDWARD ISLAND - MAMMALS

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
PEI-2022-HPAIM-003	2022/11/15	2022/12/31	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Prince Edward Island	Queens	Charlottetown	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Prince Edward Island - mammals	46.25 , -63.11 (Approximate location)	-	Animal

## AFFECTED POPULATION DESCRIPTION

-

Species (latin name)	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
striped skunk (wild)	NEW	-	1	1	-	-	-
	TOTAL	-	2	2	-	-	-

## METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-

OB\_114383 - ON-2023-HPAIM-001 - ONTARIO - MAMMALS 2023

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
ON-2023-HPAIM-001	2023/01/01	-	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Ontario	Toronto	Toronto	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Ontario - mammals 2023	43.6497 , -79.3751 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Cluster (raccoon, skunk) : Gene segments PB2, PB1, PA and NP belonging to North American lineage and gene segments HA, NA, M and NS belonging to Eurasian lineage Cluster (feral cat, red foxes) : Gene segments PB2, PB1, NP and NS belonging to North American lineage and gene segments PA, HA, NA and M belonging to Eurasian lineage

Species (latin name)	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
domestic cat (wild)	NEW	-	1	1	-	-	-
feral	TOTAL	-	1	1	-	-	-
red fox (wild)	NEW	-	2	2	-	-	-
wild	TOTAL	-	2	2	-	-	-
raccoon (northern	NEW	-	-	-	-	-	-
raccoon) (wild)	TOTAL	-	1	-	-	-	-
striped skunk (wild)	NEW	-	1	1	-	-	-
wild	TOTAL	-	1	1	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-