

Canada - Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-) - Follow-up report 11

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 11	FUR_162250	-	2023/08/11
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 additional H5N1 highly pathogenic avian influenza (HPAI) virus in red foxes and skunks. 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

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 -	-	-	-	-	-
	TOTAL -	3	3	-	-	-
striped skunk (wild)	NEW -	3	-	-	-	-
	TOTAL -	57	31	7	-	-
american mink (wild)	NEW -	-	-	-	-	-
	TOTAL -	2	1	1	-	-
harbor seal (wild)	NEW -	-	-	-	-	-
	TOTAL -	17	17	-	-	-
raccoon (northern	NEW -	-	-	-	-	-
raccoon) (wild)	TOTAL -	3	2	-	-	-
american black bear	NEW -	-	-	-	-	-
(black bear) (wild)	TOTAL -	2	1	1	-	-
red fox (wild)	NEW -	3	3	-	-	-
	TOTAL -	42	32	7	-	-
all species	NEW -	6	3	-	-	-
	TOTAL -	127	88	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
Gene sequencing	National Centre for Foreign Animal Disease (NCFAD), Winnipeg, Manitoba	Red Fox, American Mink, Raccoon (Northern raccoon), American Black Bear (black bear), Harbor Seal, Striped Skunk, Dogs, Domestic cat	36	2022/05/01	2023/06/22	Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	National Centre for Foreign Animal Disease (NCFAD), Winnipeg, Manitoba	Dogs, American Black Bear (black bear), Harbor Seal, Red Fox, Striped Skunk, Raccoon (Northern raccoon), American Mink	35	2022/05/02	2023/06/22	Positive

CONTROL MEASURES

CONTROL MEASURES AT EVENT LEVEL

DOMESTIC ANIMALS

WILD ANIMALS

NEW OUTBREAKS

OB_123465 - NL-2023-HPAIM-001 - NEWFOUNDLAND - MAMMALS

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
NL-2023-HPAIM-001	2023/01/31	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Newfoundland and Labrador	Division No. 1	St. John's	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Newfoundland - mammals	47.585 , -52.7 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Fully Eurasian H5N1

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

METHOD OF DIAGNOSTIC

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CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-

UPDATED OUTBREAKS

OB_116291 - BC-2023-HPAIM-001 - BRITISH COLUMBIA - MAMMALS 2023

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
BC-2023-HPAIM-001	2023/01/01	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
British Columbia	Capital	Victoria	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
British Columbia - mammals 2023	48.42 , -123.35 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

A total of 17 skunks were found with neurological clinical signs in the Vancouver and Richmond area. They subsequently died or were euthanised. 11 of these were tested. Seuqencing results: Fully Eurasian lineage H5N1 (n=7) Reassortant H5N1 of the following 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 (n=4)

Species (latin name)	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
striped skunk (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	11	9	2	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

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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, 1 red fox) : 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 cats, 4 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	-	-	-	-	-
feral	TOTAL	-	3	3	-	-
striped skunk (wild)	NEW	-	-	-	-	-
wild	TOTAL	-	1	1	-	-
raccoon (northern	NEW	-	-	-	-	-
raccoon) (wild) wild	TOTAL	-	1	-	-	-
red fox (wild) wild	NEW	-	2	2	-	-
	TOTAL	-	5	5	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

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OB_116292 - AB-2023-HPAIM-001 - ALBERTA - MAMMALS 2023

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
AB-2023-HPAIM-001	2023/01/01	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Alberta	Division No. 11	Edmonton	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Alberta - mammals 2023	53.55 , -113.49 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Reassortant H5N1 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

Species (latin name)	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
striped skunk	NEW	-	3	-	-	-	-
(wild) wild	TOTAL	-	5	-	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-