

Canada - Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-) - Follow-up report 5

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 5	FUR_157675	-	2022/11/30
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 cases in an American black bear from Québec, striped skunks from Alberta and a striped skunk and a red fox from Ontario. We also report the first cases of H5N1 highly pathogenic avian influenza (HPAI) virus in an Atlantic White-Sided Dolphin in Québec (data not captured in WAHIS). Note that additional unusual species are reported grouped by province. 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
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striped skunk (wild)	NEW	-	6	4	-	-
	TOTAL	-	18	4	5	-
american mink (wild)	NEW	-	-	-	-	-
	TOTAL	-	1	-	1	-
harbor seal (wild)	NEW	-	-	-	-	-
	TOTAL	-	16	16	-	-
american black bear (black bear) (wild)	NEW	-	1	-	1	-
	TOTAL	-	2	1	1	-
red fox (wild)	NEW	-	1	1	-	-
	TOTAL	-	31	21	7	-
all species	NEW	-	8	5	1	-
	TOTAL	-	68	42	14	-

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, Harbor Seal, American Black Bear (black bear), American Mink, Striped Skunk	23	2022/05/01	2022/11/20	Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	National Centre for Foreign Animal Disease (NCFAD), Winnipeg, Manitoba	Striped Skunk, American Mink, Harbor Seal, Red Fox	23	2022/05/02	2022/11/21	Positive

CONTROL MEASURES

CONTROL MEASURES AT EVENT LEVEL

DOMESTIC ANIMALS

WILD ANIMALS

UPDATED OUTBREAKS

OB_106293 - AB-2022-HPAIM - ALBERTA - MAMMALS

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
AB-2022-HPAIM	2022/05/11	-	-
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	53.5373 , -113.4905 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Multiple locations in Alberta: Leduc, Tofield, Provost, Warner, Thorhild, Okotoks, Edmonton, Lac la Biche, St. Paul Clusters: Gene segments PB2 and NP belonging to North American lineage and gene segments PB1, PA, HA, NA, M and NS belonging to Eurasian lineage (5 skunks and 1 red fox) Gene segments PB2, PB1, NP and NS belonging to North American lineage and gene segments PA, HA, NA and M belonging to Eurasian lineage (7 skunks and 2 red foxes)

Species (latin name)	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
red fox (wild)	wild	NEW	-	-	-	-	-
	TOTAL	-	3	-	-	-	-
striped skunk (wild)	wild	NEW	-	5	3	-	-
	TOTAL	-	12	3	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

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OB_106295 - ON-2022-HPAIM - ONTARIO - MAMMALS

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
ON-2022-HPAIM	2022/04/03	-	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	43.6497 , -79.3751	-	Animal

AFFECTED POPULATION DESCRIPTION

Multiple locations in Southern and Eastern Ontario Cluster: Gene segments PB2, PB1, PA and NP belonging to North American lineage and gene segments HA, NA, M and NS belonging to Eurasian lineage

Species (latin name)	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
striped skunk (wild)	wild	NEW	-	1	1	-	-
	TOTAL	-	1	1	-	-	-
red fox (wild)	wild	NEW	-	1	1	-	-
	TOTAL	-	4	4	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

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OB_106292 - QC-2022-HPAIM - QUÉBEC - MAMMALS

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
QC-2022-HPAIM	2022/05/30	-	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE	THIRD ADMINISTRATIVE	EPIDEMIOLOGICAL UNIT

Québec	DIVISION Communauté-Urbaine-de-Québec	DIVISION Québec	Not applicable
LOCATION Québec - mammals	Latitude, Longitude 46.8138 , -71.2183 (Approximate location)	OUTBREAKS IN CLUSTER -	Measuring unit Animal

AFFECTED POPULATION DESCRIPTION

Multiple regions from Québec : Côte Nord, Bas-Saint-Laurent and Gaspésie. We also report HPAI in a Atlantic White-Sided Dolphin from Bas St-Laurent (data not captured in WAHIS) Fully Eurasian lineage (Bears and one seal) Reassortment EU&NA (4 seals and dolphin) Cluster: Gene segments PB2, PB1, PA and NP belonging to North American lineage and gene segments HA, NA, M and NS belonging to Eurasian lineage.

Species (latin name)	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
harbor seal (wild) wild	NEW	-	-	-	-	-	-
	TOTAL	-	5	5	-	-	-
american black bear	NEW	-	1	-	1	-	-
(black bear) (wild) wild	TOTAL	-	2	1	1	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-
OB_106294 - NS-2022-HPAIM - NOVA SCOTIA - MAMMALS	

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
NS-2022-HPAIM	2022/06/28	-	Clade 2.3.4.4b - Lineage: Fully Eurasian
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Nova Scotia	Halifax	Halifax	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Nova Scotia - mammals	44.6466 , -63.5764 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Location: Cape Breton Fully Eurasian lineage

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

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
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