

Canada - Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-) - Follow-up report 7

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 7	FUR_160066	-	2023/03/27
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 of H5N1 highly pathogenic avian influenza (HPAI) virus in striped skunks in Canada as well as additional cases in harbour seal. We reported in a previous follow-up report, a case of H5N1 highly pathogenic avian influenza (HPAI) virus in an Atlantic White-Sided Dolphin in Québec which is not captured in WAHIS. 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	Slaughtered/ Killed for	Vaccinated
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		Disposed of			commercial use	
striped skunk (wild)	NEW -	6	2	2	-	-
	TOTAL -	38	15	7	-	-
american mink (wild)	NEW -	-	-	-	-	-
	TOTAL -	2	1	1	-	-
harbor seal (wild)	NEW -	1	1	-	-	-
	TOTAL -	17	17	-	-	-
raccoon (northern raccoon) (wild)	NEW -	-	-	-	-	-
	TOTAL -	2	1	-	-	-
american black bear (black bear) (wild)	NEW -	-	-	-	-	-
	TOTAL -	2	1	1	-	-
red fox (wild)	NEW -	-	-	-	-	-
	TOTAL -	33	23	7	-	-
all species	NEW -	7	3	2	-	-
	TOTAL -	94	58	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, Raccoon (Northern raccoon), American Mink, Harbor Seal, Striped Skunk, American Black Bear (black bear)	29	2022/05/01	2023/02/22	Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	National Centre for Foreign Animal Disease (NCFAD), Winnipeg, Manitoba	Red Fox, Raccoon (Northern raccoon), Harbor Seal, American Black Bear (black bear), American Mink, Striped Skunk	29	2022/05/02	2023/02/22	Positive

CONTROL MEASURES

CONTROL MEASURES AT EVENT LEVEL

DOMESTIC ANIMALS

WILD ANIMALS

NEW OUTBREAKS

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 (wild)	NEW	-	2	-	-	-	-
wild	TOTAL	-	2	-	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-

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. We report HPAI results for 2 of these skunks. More testing is underway. Sequncing results: One H5N1 was of fully Eurasian lineage One H5N1 was a reassortant 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

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

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
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UPDATED OUTBREAKS

OB_114386 - PEI-2023-HPAIM-001 - PRINCE EDWARD ISLAND - MAMMALS 2023

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
PEI-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
Prince Edward Island	Queens	Charlottetown	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Prince Edward Island - mammals 2023	46.25 , -63.11 (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 (wild)	NEW	-	1	1	-	-	-
wild	TOTAL	-	3	3	-	-	-

METHOD OF DIAGNOSTIC

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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	2022/12/31	-
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	46.8138 , -71.2183 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Multiple regions from Québec : Côte Nord, Bas-Saint-Laurent, Gaspésie and Montérégie. 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 (5 seals, dolphin and skunk) 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)	NEW	-	1	1	-	-	-
wild	TOTAL	-	1	1	-	-	-
american black bear (black bear)	NEW	-	-	-	-	-	-
(wild)	TOTAL	-	2	1	1	-	-
harbor seal (wild)	NEW	-	1	1	-	-	-

TOTAL - 6 6 - -

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED ADDITIONAL MEASURES

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