

Canada - Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-) - Follow-up report 4

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	2022/04/12
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 4	FUR_156796	CAN-2022-HPAIM-001 FUR4	2022/09/01
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 cases of H5N1 highly pathogenic avian influenza (HPAI) virus in an American black bear, as well as additional cases in red foxes, striped skunks and harbor seals from Ontario, Quebec, Alberta and Nova Scotia. Note that we report additional unusual species grouped by provinces. For detailed and current information on high pathogenicity avian influenza cases in wildlife, please consult : http://www.cwhc-rscsf.ca/avian_influenza.php

QUANTITATIVE DATA SUMMARY

MEASURING UNIT

Animal

Species		Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
striped skunk (wild)	NEW	-	7	-	-	-	-

	TOTAL -	12	-	5	-	-
american mink (wild)	NEW -	-	-	-	-	-
	TOTAL -	1	-	1	-	-
harbor seal (wild)	NEW -	5	5	-	-	-
	TOTAL -	16	16	-	-	-
american black bear (black bear) (wild)	NEW -	1	1	-	-	-
	TOTAL -	1	1	-	-	-
red fox (wild)	NEW -	7	4	-	-	-
	TOTAL -	30	20	7	-	-
all species	NEW -	20	10	-	-	-
	TOTAL -	60	37	13	-	-

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	Red Fox, Striped Skunk, Harbor Seal, American Mink	23	2022/05/02	2022/08/29	Positive

CONTROL MEASURES

CONTROL MEASURES AT EVENT LEVEL

DOMESTIC ANIMALS

WILD ANIMALS

NEW OUTBREAKS

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 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 and Gaspésie (bear) Bear: Fully Eurasian lineage 4 Seals: Reassortment EU&NA. Gene segments PB2, PB1, PA and NP belonging to North American lineage and gene segments HA, NA, M and NS belonging to Eurasian lineage 1 Seal: Fully 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	-	5	5	-	-
	TOTAL	-	5	5	-	-	-
american black bear	NEW	-	1	1	-	-	-
(black bear) (wild)	wild	TOTAL	-	1	1	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED ADDITIONAL MEASURES

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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 BicheReassortments EU

Species (latin name)	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
striped skunk	NEW	-	7	-	-	-	-
(wild) wild	TOTAL	-	7	-	-	-	-
red fox (wild)	wild	NEW	-	3	-	-	-
	TOTAL	-	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	-	-
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 Reassortment EU&NA. 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
red fox (wild)	NEW	-	3	3	-	-	-
wild	TOTAL	-	3	3	-	-	-

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	-	-
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)	NEW	-	1	1	-	-	-
wild	TOTAL	-	1	1	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-

UPDATED OUTBREAKS

OB_105140 - QC-2022-HPAIM-001 - BAS-ST-LAURENT

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
QC-2022-HPAIM-001	2022/06/07	2022/06/22	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Québec	La Mitis	Sainte-Flavie	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Bas-St-Laurent	48.61 , -68.23 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

- 4 seals: Fully Eurasian lineage; - 5 seals: Reassortment EU&NA; 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	NEW	-	-	-	-	-	-
(wild) wild	TOTAL	-	11	11	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

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OB_105141 - QC-2022-HPAIM-002 - GASPÉSIE-ÎLES-DE-LA-MADELEINE

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
QC-2022-HPAIM-002	2022/06/13	2022/06/13	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Québec	Les îles-de-la-Madeleine	Havre-aux-Maisons	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Gaspésie-Îles-de-la-Madeleine	47.4 , -61.81 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

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

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

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OB_104735 - BC-2022-HPAIM-003 - CARIBOO REGIONAL DISTRICT

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
BC-2022-HPAIM-003	2022/05/27	2022/05/27	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
British Columbia	Cariboo	Cariboo L	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Cariboo Regional District	51.45 , -121.13 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

- 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
red fox (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	1	1	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-

OB_104179 - ON-2022-HPAIM-006 - SOUTHERN ONTARIO (WELLINGTON)

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
ON-2022-HPAIM-006	2022/05/10	2022/05/10	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Ontario	Wellington	Guelph/Eramosa	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Southern Ontario (Wellington)	43.66 , -80.16 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

- 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
red fox (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	1	-	1	-	-

METHOD OF DIAGNOSTIC

Clinical,
Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-

OB_104162 - ON-2022-HPAIM-003 - CENTRAL ONTARIO (SIMCOE)

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
ON-2022-HPAIM-003	2022/04/27	2022/05/23	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Ontario	Simcoe	Ramara	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit

Central Ontario (Simcoe)	44.52 , -79.25 (Approximate location)	-	Animal
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AFFECTED POPULATION DESCRIPTION

Neurologic red fox kits. Both animals had the same 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
red fox (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	2	1	1	-	-

METHOD OF DIAGNOSTIC

Diagnostic test,
Clinical

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-
OB_104164 - ON-2022-HPAIM-005 - SOUTHERN ONTARIO (WATERLOO)	

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
ON-2022-HPAIM-005	2022/04/25	2022/05/07	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Ontario	Waterloo	Woolwich	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Southern Ontario (Waterloo)	43.5 , -80.4 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

- 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
red fox (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	3	3	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-
OB_104163 - ON-2022-HPAIM-004 - SOUTHERN ONTARIO (GREY)	

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
ON-2022-HPAIM-004	2022/04/14	2022/04/14	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT

Ontario	Grey	West Grey	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Southern Ontario (Grey)	44.3 , -80.7 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Neurologic mink. 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
american mink	NEW	-	-	-	-	-	-
(wild) wild	TOTAL	-	1	-	1	-	-

METHOD OF DIAGNOSTIC

Clinical,
Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
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OB_104161 - BC-2022-HPAIM-002 - NORTH OKANAGAN REGIONAL DISTRICT

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
BC-2022-HPAIM-002	2022/05/18	2022/05/18	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
British Columbia	North Okanagan	North Okanagan B	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
North Okanagan Regional District	50.2 , -119.28 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Cluster: Gene segments PB2 and NP belonging to North American lineage and gene segments PB1, PA, 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	NEW	-	-	-	-	-	-
(wild) wild	TOTAL	-	1	-	1	-	-

METHOD OF DIAGNOSTIC

Diagnostic test,
Clinical

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
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OB_104110 - NS-2022-HPAIM-001 - CENTRAL NOVA SCOTIA

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
NS-2022-HPAIM-001	2022/05/09	2022/05/09	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
Central Nova Scotia	44.8212 , -63.1424 (Approximate location)	-	Animal
AFFECTED POPULATION DESCRIPTION			
Found dead red fox kit			
Species (latin name)	Wildlife type	Susceptible Cases Deaths Killed and Disposed of	Slaughtered/ Killed for commercial use Vaccinated
red fox (wild)	NEW	- - - -	- -
wild	TOTAL	- 1 1 -	- -
METHOD OF DIAGNOSTIC			
Diagnostic test			
CONTROL MEASURES DIFFERENT FROM EVENT LEVEL			
MEASURES NOT IMPLEMENTED		ADDITIONAL MEASURES	
-		-	
OB_104109 - PE-2022-HPAIM-002 - EASTERN PEI			

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
PE-2022-HPAIM-002	2022/05/18	2022/05/18	Clade 2.3.4.4b - Lineage: Fully Eurasian
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Prince Edward Island	Kings	Lot 54	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Eastern PEI	46.2778 , -62.5474 (Approximate location)	-	Animal
AFFECTED POPULATION DESCRIPTION			
Neurologic wild red fox kit			
Species (latin name)	Wildlife type	Susceptible Cases Deaths Killed and Disposed of	Slaughtered/ Killed for commercial use Vaccinated
red fox (wild)	NEW	- - - -	- -
wild	TOTAL	- 1 - 1	- -
METHOD OF DIAGNOSTIC			
Diagnostic test, Clinical			
CONTROL MEASURES DIFFERENT FROM EVENT LEVEL			
MEASURES NOT IMPLEMENTED		ADDITIONAL MEASURES	
-		-	
OB_104108 - PE-2022-HPAIM-001 - CENTRAL PEI			

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
PE-2022-HPAIM-001	2022/05/16	2022/05/17	Clade 2.3.4.4b - Lineage: Fully

						Eurasian	
FIRST ADMINISTRATIVE DIVISION		SECOND ADMINISTRATIVE DIVISION		THIRD ADMINISTRATIVE DIVISION		EPIDEMIOLOGICAL UNIT	
Prince Edward Island		Queens		Miltonvale Park		Not applicable	
LOCATION		Latitude, Longitude		OUTBREAKS IN CLUSTER		Measuring unit	
Central PEI		46.2867 , -63.212 (Approximate location)		-		Animal	
AFFECTED POPULATION DESCRIPTION							
Neurologic wild red fox kits							
Species (latin name)	Wildlife type	Susceptible	Cases	Deaths	Killed and Disposed of	Slaughtered/ Killed for commercial use	Vaccinated
red fox (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	2	-	2	-	-
METHOD OF DIAGNOSTIC							
Diagnostic test, Clinical							
CONTROL MEASURES DIFFERENT FROM EVENT LEVEL							
MEASURES NOT IMPLEMENTED					ADDITIONAL MEASURES		
-					-		
OB_103544 - AB-2022-HPAIM-002 - STRATHMORE							
OUTBREAK REFERENCE		START DATE		END DATE		DETAILED CHARACTERISATION	
AB-2022-HPAIM-002		2022/04/26		2022/04/26		Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American	
FIRST ADMINISTRATIVE DIVISION		SECOND ADMINISTRATIVE DIVISION		THIRD ADMINISTRATIVE DIVISION		EPIDEMIOLOGICAL UNIT	
Alberta		Division No. 5		Strathmore		Not applicable	
LOCATION		Latitude, Longitude		OUTBREAKS IN CLUSTER		Measuring unit	
Strathmore		51.03 , -113.38 (Approximate location)		-		Animal	
AFFECTED POPULATION DESCRIPTION							
Neurologic wild skunk Cluster: Gene segments PB2 and NP belonging to North American lineage and gene segments PB1, PA, 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	NEW	-	-	-	-	-	-
(wild) wild	TOTAL	-	1	-	1	-	-
METHOD OF DIAGNOSTIC							
Diagnostic test							
CONTROL MEASURES DIFFERENT FROM EVENT LEVEL							
MEASURES NOT IMPLEMENTED					ADDITIONAL MEASURES		
-					-		
OB_103543 - AB-2022-HPAIM-001 - MINBURN COUNTY							
OUTBREAK REFERENCE		START DATE		END DATE		DETAILED CHARACTERISATION	

AB-2022-HPAIM-001	2022/04/22	2022/04/22	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Alberta	Division No. 10	Minburn County No. 27	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Minburn County	53.49 , -112.16 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

- Neurologic wild skunks. Cluster: Gene segments PB2 and NP belonging to North American lineage and gene segments PB1, PA, 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	-	-	-	-	-	-
wild	TOTAL	-	2	-	2	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
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OB_103542 - MB-2022-HPAIM-003 - PRAIRIE MOUNTAIN HEALTH REGION

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
MB-2022-HPAIM-003	2022/05/11	2022/05/11	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Manitoba	Division No. 17	Dauphin	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Prairie Mountain Health Region	51.35 , -100.15 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

- Neurologic adult wild skunk. Cluster: Gene segments PB2 and NP belonging to North American lineage and gene segments PB1, PA, 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	-	-	-	-	-	-
wild	TOTAL	-	1	-	1	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
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OB_103541 - BC-2022-HPAIM-001 - FRASER-FORT GEORGE REGIONAL DISTRICT

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
BC-2022-HPAIM-001	2022/05/08	2022/05/17	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
British Columbia	Fraser-Fort George	Prince George	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Fraser-Fort George Regional District	53.9 , -122.77 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

- Neurologic wild red fox kits. Both had the same cluster. Cluster: Gene segments PB2 and NP belonging to North American lineage and gene segments PB1, PA, 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
red fox (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	2	1	1	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-
OB_103540 - MB-2022-HPAIM-002 - SOUTHERN HEALTH REGION	

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
MB-2022-HPAIM-002	2022/05/08	2022/05/08	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Manitoba	Division No. 3	Morris Town	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Southern Health Region	49.36 , -97.36 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

- Neurologic wild red fox kits. Cluster: Gene segments PB2 and NP belonging to North American lineage and gene segments PB1, PA, 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
red fox (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	4	3	1	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED	ADDITIONAL MEASURES
-	-

OB_103539 - ON-2022-HPAIM-002 - SOUTHERN ONTARIO (YORK)

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
ON-2022-HPAIM-002	2022/04/15	2022/04/15	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Ontario	York	Vaughan	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Southern Ontario (York)	43.86 , -79.5 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

- Neurologic wild red fox kit. 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
red fox (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	1	1	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED ADDITIONAL MEASURES

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OB_103112 - MB-2022-HPAIM-001 - PRAIRIE MOUNTAIN HEALTH AUTHORITY

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
MB-2022-HPAIM-001	2022/04/28	2022/04/28	Clade: 2.3.4.4b - Lineage: Reassortment Eurasian and North American
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Manitoba	Division No. 15	Neepawa	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Prairie Mountain Health Authority	50.24 , -99.46 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

- Neurologic wild red fox kits. Both had the same cluster. 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
red fox (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	2	2	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test,
Clinical

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

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OB_102584 - ON-2022-HPAIM-001 - SOUTHERN ONTARIO

OUTBREAK REFERENCE	START DATE	END DATE	DETAILED CHARACTERISATION
ON-2022-HPAIM-001	2022/04/12	2022/04/12	-
FIRST ADMINISTRATIVE DIVISION	SECOND ADMINISTRATIVE DIVISION	THIRD ADMINISTRATIVE DIVISION	EPIDEMIOLOGICAL UNIT
Ontario	Perth	St. Marys	Not applicable
LOCATION	Latitude, Longitude	OUTBREAKS IN CLUSTER	Measuring unit
Southern Ontario	43.27 , -81.14 (Approximate location)	-	Animal

AFFECTED POPULATION DESCRIPTION

Neurologic wild red fox kits. Both had the same 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
red fox (wild)	NEW	-	-	-	-	-	-
wild	TOTAL	-	2	2	-	-	-

METHOD OF DIAGNOSTIC

Diagnostic test

CONTROL MEASURES DIFFERENT FROM EVENT LEVEL

MEASURES NOT IMPLEMENTED

ADDITIONAL MEASURES

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