

## Follow-up report 2

01/03/2022

**The event is ongoing. Weekly follow-up reports will be submitted.**

Sender	Country/territory	Report ID
Delegate of Canada	Canada	FUR_154285
Report reference	Event status	Self-declaration
CAN-2021-CoV-001 FUR2	On-going	No

### General information

Country or zone - Country	Disease - SARS-CoV-2 in animals (Inf. with)	Started on - 06/11/2021
Animal type - Terrestrial	Confirmed on - 29/11/2021	Causal agent - SARS-CoV-2
Disease category - Emerging	Reported on - 01/03/2022	Reason - Emerging disease

### Disease impact

Outbreak morbidity - 1.0	Outbreak mortality - 0.0
Zoonotic potential - Yes	

### Epidemiology

Source of the event or origin of the infection - Unknown or inconclusive

Epidemiological comments The SARS-CoV-2 positive white-tailed deer from Saskatchewan, Manitoba and Ontario are additional results of an ongoing cross-jurisdictional study undertaken by several federal, provincial, territorial and academic partners to monitor wild cervids across Canada for the presence of SARS-CoV-2.

For updated information about SARS-CoV-2 confirmed cases in animals in Canada, please consult: <https://www.cahss.ca/cahss-tools/sars-cov-2-dashboard>

Note that a new lineage of SARS-CoV-2 has been identified in Ontario white-tailed deer, please refer to <https://www.biorxiv.org/content/10.1101/2022.02.22.481551v1>

### Diagnostic

Clinical signs - No

Method of diagnostic - Diagnostic test

Test name	Category	Test type	Laboratory	Species sampled	Outbreaks	Tested from	Tested until	Result
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	Sunnybrook Research Institute Local Laboratory	White-Tailed deer	2	22/11/2021	22/01/2022	Positive
Real-time reverse transcription polymerase chain reaction (rRT-PCR)	Nucleic acid detection	Laboratory Test	National Centre for Foreign Animal Disease (NCFAD), Winnipeg, Manitoba National Laboratory	White-Tailed deer	4	29/11/2021	28/01/2022	Positive
Real-time reverse	Nucleic acid detection	Laboratory Test	Wildlife Health Laboratory	White-Tailed deer	1	08/12/2021		Positive

transcription polymerase chain reaction (rRT-PCR)			(Ecotoxicology & Wildlife Health Division, Environment and Climate Change Canada) National Laboratory					
Gene sequencing	Genotyping	Laboratory Test	Sunnybrook Research Institute Local Laboratory	White-Tailed deer	1	30/11/2021		Positive

## Quantitative data summary

### Measuring unit - Animal

Species	Type	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated	Outbreak morbidity	Outbreak mortality
White-Tailed deer (Odocoileus virginianus):Cervidae-Artiodactyla	New	-	18	-	-	18	0	-	-
White-Tailed deer (Odocoileus virginianus):Cervidae-Artiodactyla	Total	-	27	-	-	27	0	-	-
All species	New	-	18	-	-	18	0	-	-
All species	Total	-	27	-	-	27	0	-	-

Event morbidity - 1.0

Event mortality - 0.0

## Outbreaks

### ob\_93031-Estrie

Outbreak reference - QC-2021-001

Started on - 06/11/2021

First administrative division - Québec

Ended on - 08/11/2021

Second administrative division - Brome-Missisquoi

Epidemiological unit - Not applicable

Geographic coordinates - 45.155,-72.754

Third administrative division - Dunham

Approximate location - Yes

Location - Estrie

Description of the affected populationA total of 258 hunter-harvested white-tailed deer were sampled at registration stations in Estrie and Laurentides regions during the regular hunting season. Three have been confirmed to be positive for SARS-CoV-2.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
White-Tailed deer (Odocoileus virginianus):Cervidae-Artiodactyla	New	Animal	-	-	-	-	-	-
White-Tailed deer (Odocoileus virginianus):Cervidae-Artiodactyla	Total	Animal	-	3	-	-	3	0
All species	New	Animal	-	-	-	-	-	-

All species	Total	Animal	-	3	-	-	3	0
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### ob\_95550-Southwestern Ontario

Outbreak reference - ON-2021-001      Started on - 03/11/2021      First administrative division - Ontario

Second administrative division - Middlesex      Epidemiological unit - Not applicable      Geographic coordinates - 43.06,-81.48

Third administrative division - Middlesex      Approximate location - Yes      Location - Southwestern Ontario

Centre

Description of the affected population Hunter-harvested white-tailed deer were sampled and tested as part of the Ontario Ministry of Northern Development, Mines, Natural Resources Chronic Wasting Disease surveillance program.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
White-Tailed deer (Odocoileus virginianus):Cervidae-Artiodactyla	New	Animal	-	12	-	-	12	0
White-Tailed deer (Odocoileus virginianus):Cervidae-Artiodactyla	Total	Animal	-	17	-	-	17	0
All species	New	Animal	-	12	-	-	12	0
All species	Total	Animal	-	17	-	-	17	0

### ob\_98057-Manitoba

Outbreak reference - Mb-2021-001      Started on - 23/10/2021      First administrative division - Manitoba

Second administrative division - Division No. 10      Epidemiological unit - Not applicable      Geographic coordinates - 49.63,-97.21

Third administrative division - Macdonald      Approximate location - Yes      Location - Manitoba

Description of the affected population Hunter-harvested cervids were sampled opportunistically and tested from heads that had been submitted for processing as part of the provincial chronic wasting disease surveillance program.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
White-Tailed deer (Odocoileus virginianus):Cervidae-Artiodactyla	New	Animal	-	3	-	-	3	0
White-Tailed deer (Odocoileus virginianus):Cervidae-Artiodactyla	Total	Animal	-	3	-	-	3	0
All species	New	Animal	-	3	-	-	3	0
All species	Total	Animal	-	3	-	-	3	0

### ob\_95549-Saskatchewan

Outbreak reference - SK-2021-001      Started on - 09/11/2021      First administrative division - Saskatchewan

Second administrative division - Division No. 11      Epidemiological unit - Not applicable      Geographic coordinates - 52.1,-106.52

Third administrative division - Corman Park No. 344      Approximate location - Yes      Location - Saskatchewan

Description of the affected populationHunter-harvested cervids were sampled opportunistically and tested from heads that had been submitted for processing as part of the provincial chronic wasting disease surveillance program.

Species	Type	Measuring unit	Susceptible	Cases	Deaths	Killed and disposed of	Slaughtered	Vaccinated
White-Tailed deer (Odocoileus virginianus):Cervidae-Artiodactyla	New	Animal	-	3	-	-	3	0
White-Tailed deer (Odocoileus virginianus):Cervidae-Artiodactyla	Total	Animal	-	4	-	-	4	0
All species	New	Animal	-	3	-	-	3	0
All species	Total	Animal	-	4	-	-	4	0



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