

Immediate notification

01/12/2021

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

Sender	Country/territory	Report ID
Delegate of Canada	Canada	IN_152659
Report reference	Event status	Self-declaration
CAN-2021-CoV-001	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 - 01/12/2021	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 detection of SARS-CoV-2 in hunter-harvested deer in Quebec is the first detection of the virus in free-ranging wildlife in Canada. Sequencing results indicate lineage is B.1.617.2 (Delta). These are the initial 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.

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	1	22/11/2021		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	1	29/11/2021		Positive
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	-	3	-	-	3	0	-	-
White-Tailed deer (Odocoileus virginianus):Cervidae-Artiodactyla	Total	-	3	-	-	3	0	-	-
All species	New	-	3	-	-	3	0	-	-
All species	Total	-	3	-	-	3	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. Out of 156 deer tested so far, 3 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	-	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

Map legend

OUTBREAKS REPRESENTATION ON MAP

OUTBREAKS NATURE

Single / Cluster

Domestic species



Wild species



Domestic & Wild



OUTBREAKS STATUS

Outbreak currently reported



Ongoing outbreak



Resolved outbreak



AGGREGATION REPRESENTATION

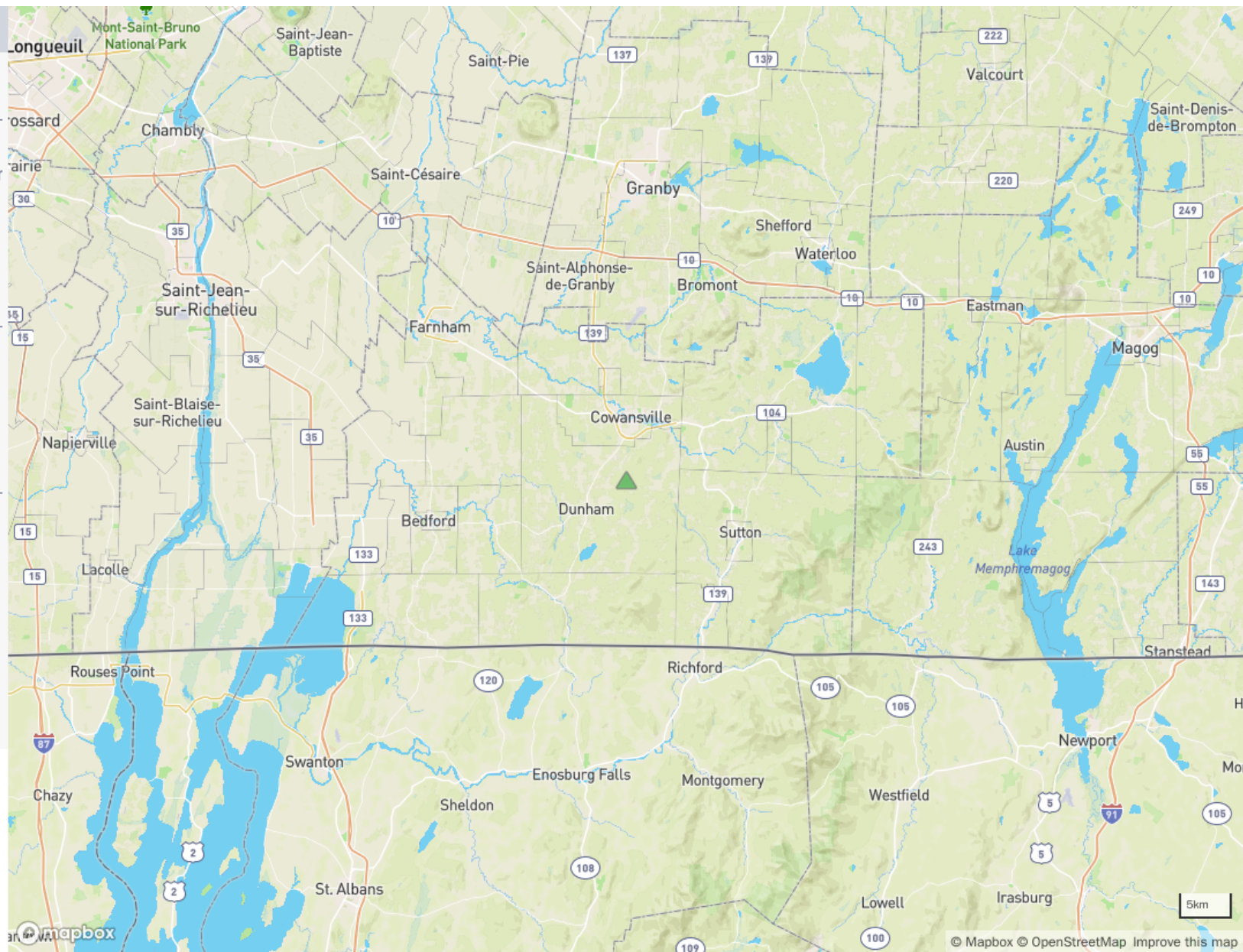
< 20 outbreaks



20 - 100 outbreaks



> 100 outbreaks



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