

# Public Health Sudbury & Districts Coronavirus Disease 2019 (COVID-19) Epidemiology Update

These data are based on information available from Public Health Sudbury & Districts as of **6:00 PM September 22, 2020**, unless otherwise specified.

*\* Note: There may be a lag between the date a case is confirmed by the laboratory to Public Health and the date a case is publicly reported. This is due to the public health follow-up that is required before a case is publicly reported.*

## Highlights

As of the time of reporting, among residents of the Public Health Sudbury & Districts service area, there have been:

- **102 confirmed cases** of COVID-19.
- **2 deaths.**
  - The *case fatality rate* is 2.0%.
    - Case Fatality Rate is calculated using the following formula: Total Deaths / Total Confirmed Cases.
- **37,550 tests** for COVID-19 completed as of 5:00 PM September 22, 2020.
  - The *testing rate* is 18,883 per 100,000 population.
  - This total includes data from targeted surveillance initiatives in long-term care homes, emergency child care centres, and retirement homes coordinated by Public Health Sudbury & Districts between April 25 and June 5, 2020.
  - The percent of tests that are positive is 0.3%.
    - This is calculated using the following formula: Total Confirmed Cases / Total Tests. Prior to June 8, 2020, tests for which results had not yet been received were removed from this calculation.

Of the confirmed cases:

- 47 cases (46.1%) were female.\*\*
- 29 cases (28.4%) were between the ages of 40 to 59.\*\*
- 62 cases (60.8%) were cases with an unknown exposure, or their contacts.
- 19 cases (18.6%) related to outbreaks in 10 long-term care homes.
  - 1 death is related to outbreaks in long-term care homes.

\*\*Data on gender and age groups are updated when there are sufficient data to ensure individual cases cannot be identified. Gender is not specified for cases 19 aged years and under.

# Epidemiology – Sudbury and Districts

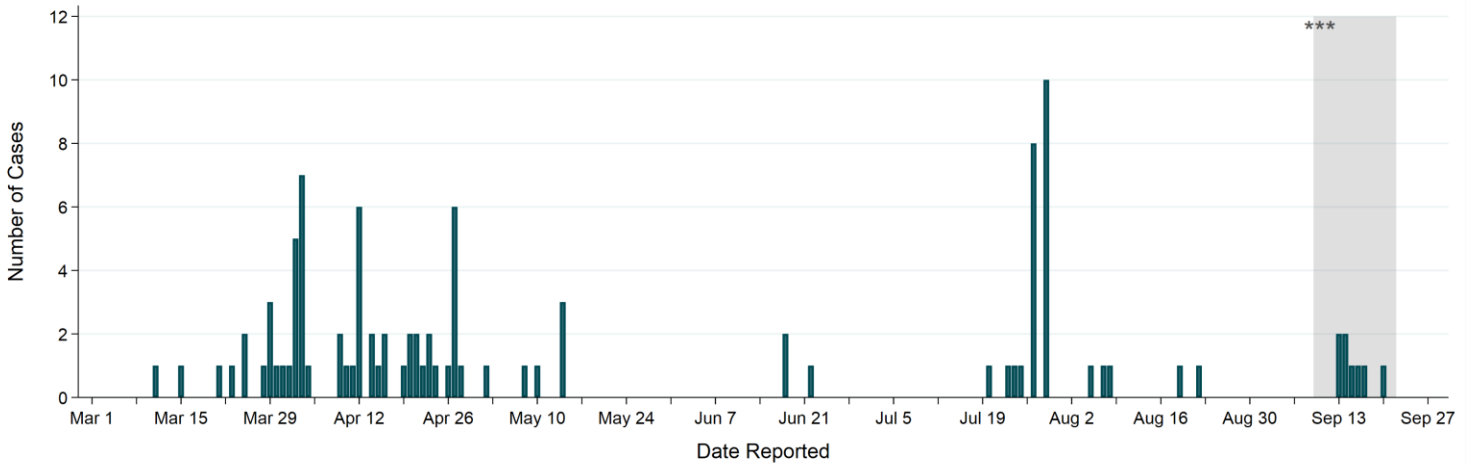
Total confirmed cases as of September 22, 2020 at 6:00 PM: **102 Cases**

## Cases over time

Notes:

External data sources may have slight delays in capturing locally reported cases.

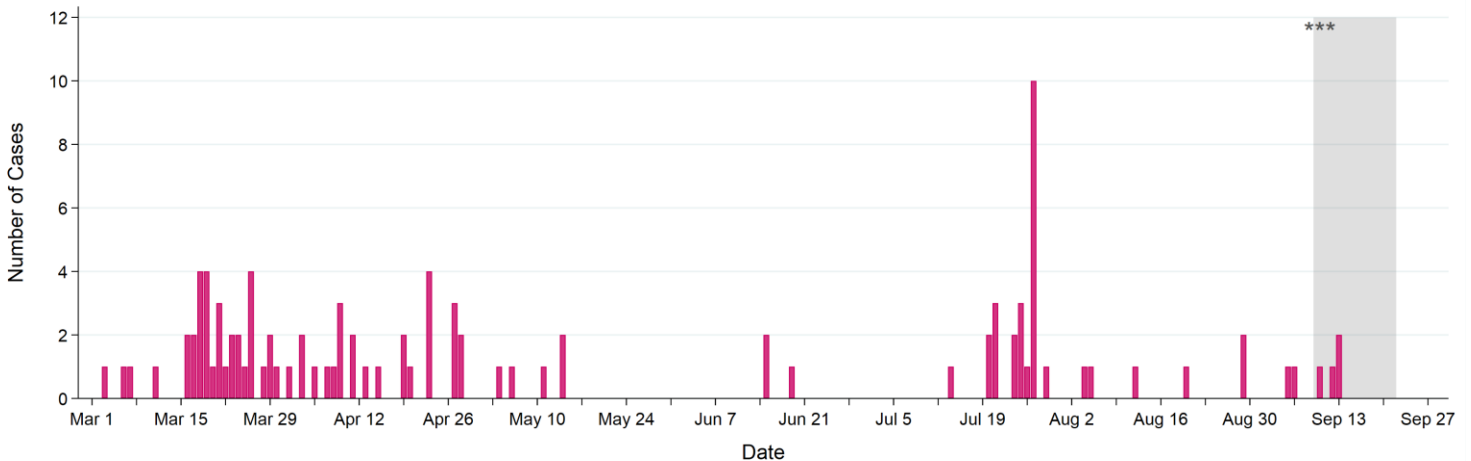
**FIGURE 1. Confirmed cases, by date of reporting, Sudbury and districts**



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: September 23, 2020)

\*\*\* Illnesses occurring during this period may not yet be reported

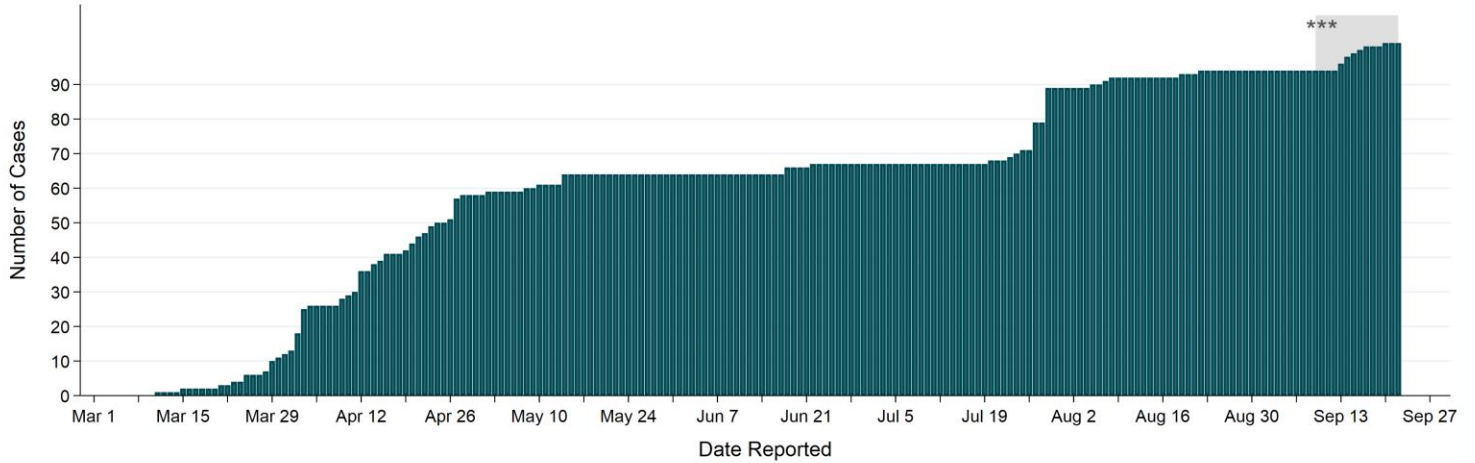
**FIGURE 2. Confirmed cases, by date of symptom onset, Sudbury and districts**



Data Source: Integrated Public Health Information System (iPHIS), Ministry of Health. (Access Date: September 22, 2020)

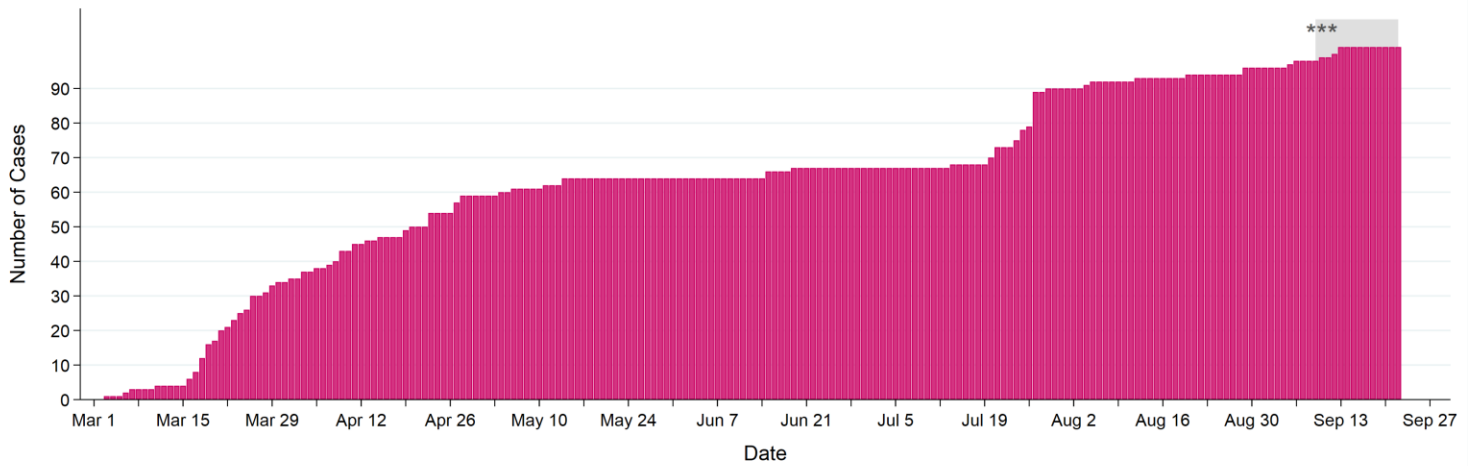
\*\*\* Illnesses occurring during this period may not yet be reported

**FIGURE 3. Cumulative confirmed cases, by date of reporting, Sudbury and districts**



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: September 23, 2020)  
\*\*\* Illnesses occurring during this period may not yet be reported

**FIGURE 4. Cumulative confirmed cases, by date of symptom onset, Sudbury and districts**



Data Source: Integrated Public Health Information System (iPHIS), Ministry of Health. (Access Date: September 22, 2020)  
\*\*\* Illnesses occurring during this period may not yet be reported

## Case Characteristics

**TABLE 1. Number and Percentage of Confirmed Cases, by Various Characteristics**

Characteristic	Cases since March 11	Percentage (%)	Cases since July 20	Percentage (%)
Numbers of Cases	102	100%	35	100%
Change from previous report	0	0.0%*	0	0.0%*
Gender: Male	33	32.4%	8	22.9%
Gender: Female	47	46.1%	9	25.7%
Gender: Not specified**	22	21.6%	18	51.4%
Ages: 19 and under	19	18.6%	15	42.9%
Ages: 20-39	24	23.5%	5	14.3%
Ages: 40-59	29	28.4%	5	14.3%
Ages: 60-79	23	22.5%	5	14.3%
Ages: 80 and over	4	3.9%	2	5.7%
Ages: Not specified**	3	2.9%	3	8.6%
Area: Greater Sudbury	92	90.2%	31	88.6%
Area: Manitoulin District	5	4.9%	1	2.9%
Area: Sudbury District	5	4.9%	3	8.6%

Data source: Public Health Sudbury & Districts

\*Percent change represents the degree of change over time, calculated: (New-Original)/Original

\*\*Data on gender and age groups are updated when there are sufficient data to ensure individual cases cannot be identified. Gender is not specified for cases 19 aged years and under.

## Case Outcome

**TABLE 2. Case outcomes, by geographic area**

Geographic Area	Total Cases	Resolved Cases	Percent Resolved	Deaths	Case Fatality Rate (CFR)
Sudbury and districts	102	99	97.1%	2	2.0%
Ontario	47,752	44,174	92.5%	2,832	5.9%

Data Source: Public Health Sudbury & Districts and Ontario MOH COVID-19 Update

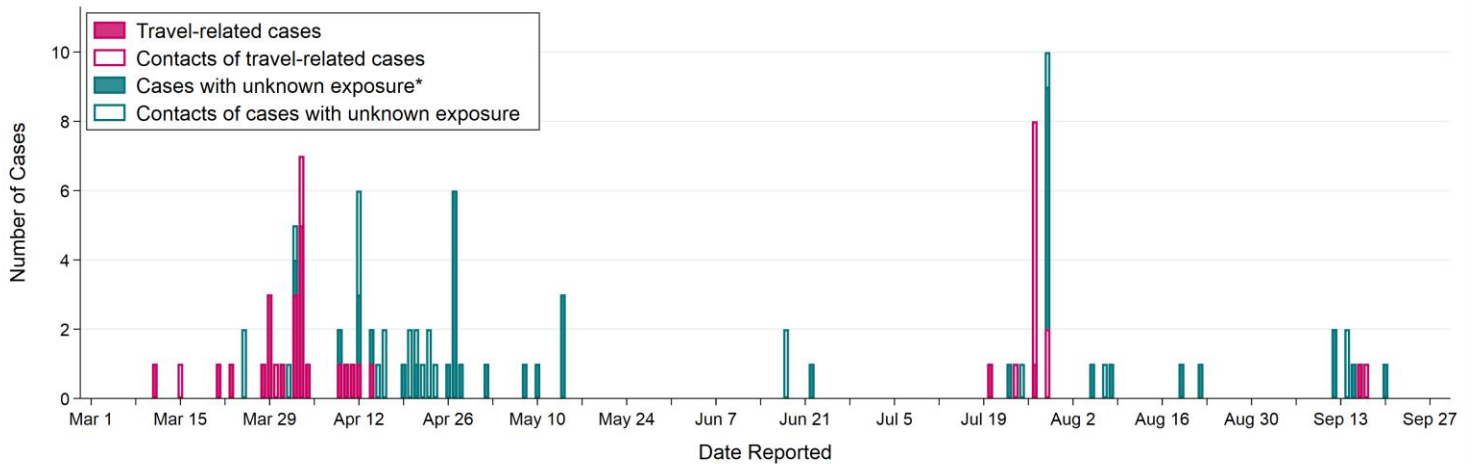
# Probable Exposure

**TABLE 3. Confirmed Cases, by Probable Exposure, Sudbury and districts**

Exposure	Cases since March 11	Percentage (%)	Cases since July 20	Percentage (%)
Travel-related	25	24.5%	3	8.6%
Contact of a travel-related case	15	14.7%	11	31.4%
No travel and no contact with a known case (unknown exposure)	38	37.3%	16	45.7%
Contact of a case with unknown exposure	24	23.5%	5	14.3%

Data Source: Public Health Sudbury & Districts

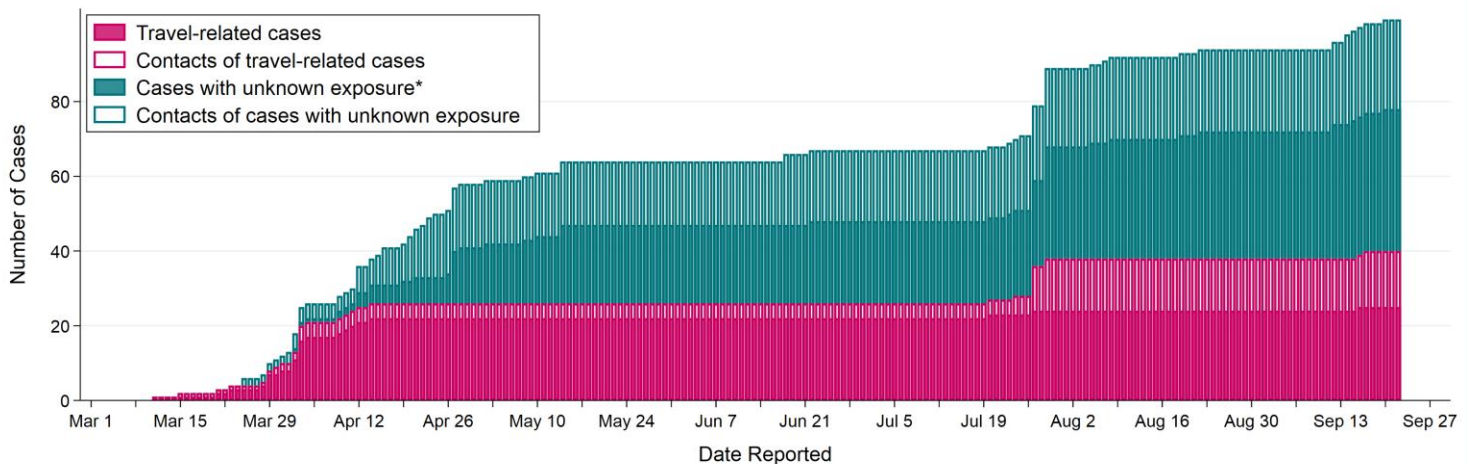
**FIGURE 5. Confirmed Cases, by date of reporting and probable exposure, Sudbury and districts**



Data source: Public Health Sudbury & Districts

\*Cases with unknown exposure are defined as *No history of travel and no contact with a known case (unknown exposure)* in Table 4, above

**FIGURE 6. Cumulative confirmed Cases, by date of reporting and probable exposure, Sudbury and districts**



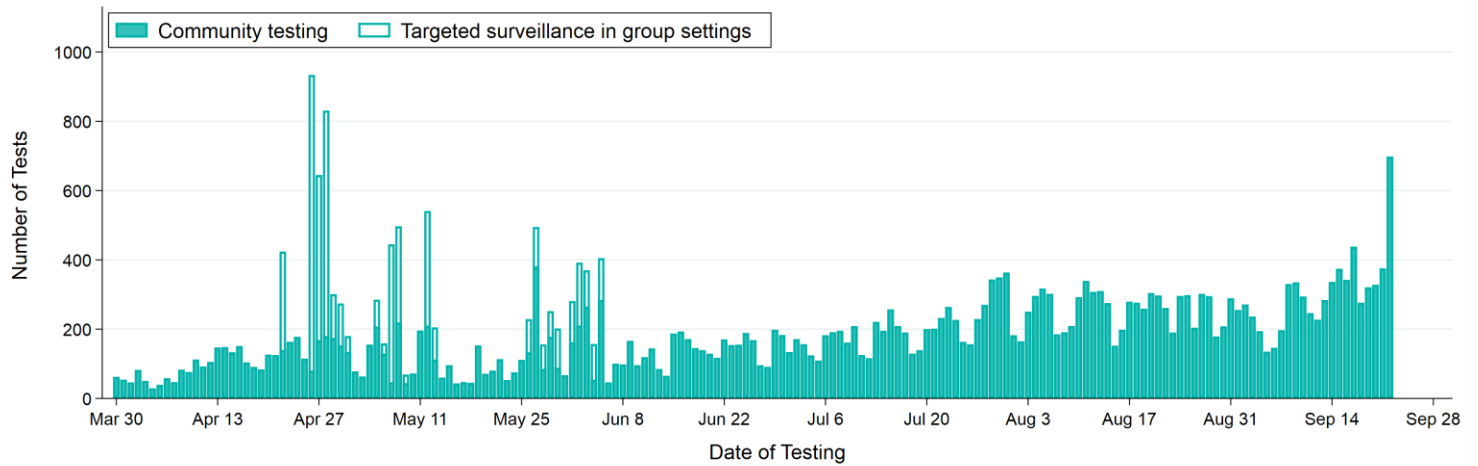
Data source: Public Health Sudbury & Districts

\*Cases with unknown exposure are defined as *No history of travel and no contact with a known case (unknown exposure)* in Table 3, above

# Testing

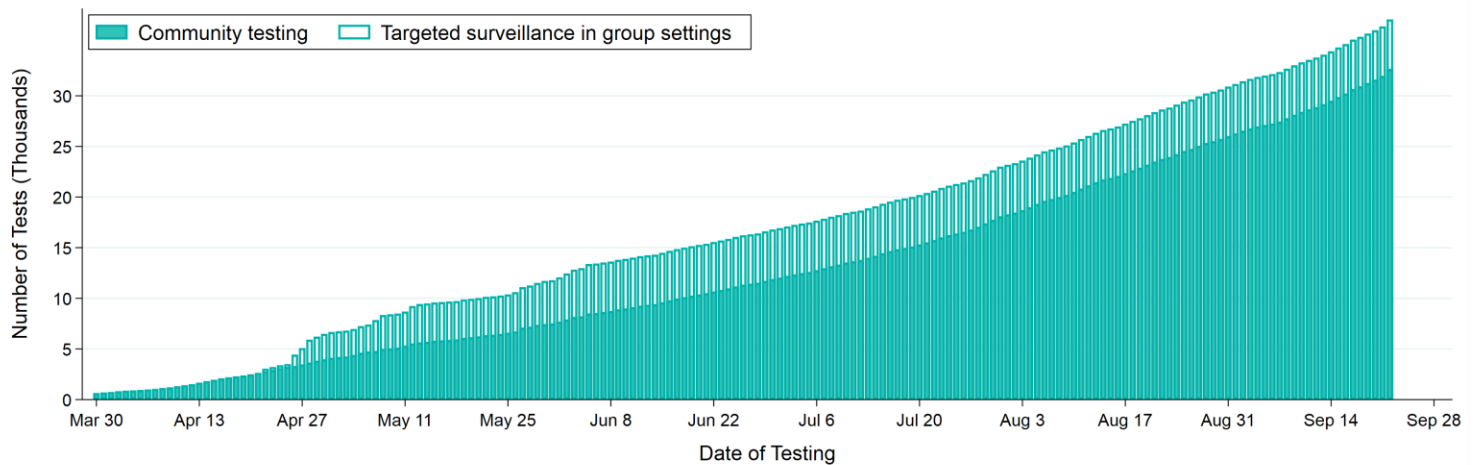
Total number of tests for COVID-19 as of September 22, 2020 at 5:00 PM: **37,550 tests**. This total, and the graphs below, include tests undertaken as part of ongoing targeted surveillance initiatives in long-term care homes, emergency child care centres, and retirement homes coordinated by Public Health Sudbury & Districts between April 25 and June 5, 2020.

**FIGURE 7. Tests in Sudbury and districts, March 30 to September 22, 2020**



Data source: Public Health Sudbury & Districts

**FIGURE 8. Cumulative tests in Sudbury and districts, March 30 to September 22, 2020**



Data source: Public Health Sudbury & Districts

# Outbreaks in Facilities

As per the most recent provincial directives, outbreaks of COVID-19 are not automatically declared in long-term care homes and other congregate settings with the confirmation of one case. Public Health assesses each unique situation in determining if an outbreak should be declared, including, for example, occupation, exposures in the home, symptoms of the case, specific risk factors, and local epidemiology.

- In total there have been **10** COVID-19 outbreaks in area facilities; all outbreaks have been in long-term care homes. A total of **19** cases (6 resident cases and 13 staff cases), and **1** death is associated with these outbreaks.
- All outbreaks have now been declared over.

**TABLE 4. Summary of active outbreaks in facilities, Sudbury and districts**

There are currently no active COVID-19 outbreaks in area facilities.

Data Source: Public Health Sudbury & Districts

# Outbreaks in Schools

An outbreak in a school will be declared if there are two or more cases of COVID-19 in a 14-day period that have some link with each other, and with evidence that infection occurred at the school.

- There have been no COVID-19 outbreaks in area schools

**TABLE 5. Summary of active outbreaks in schools, Sudbury and districts**

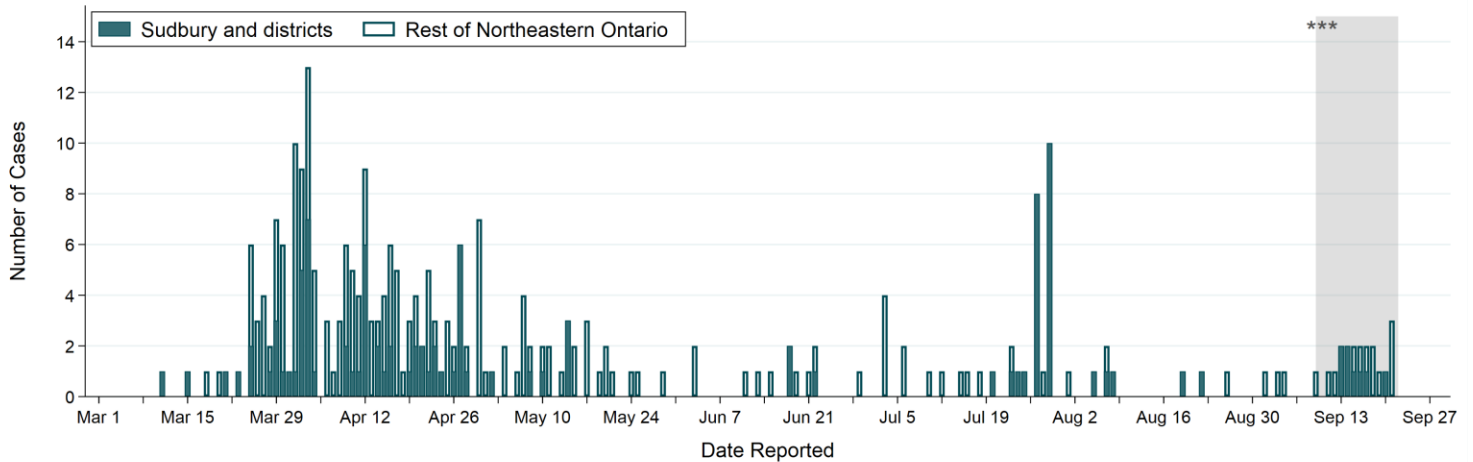
There are currently no active COVID-19 outbreaks in area schools.

Data Source: Public Health Sudbury & Districts



# Regional Context

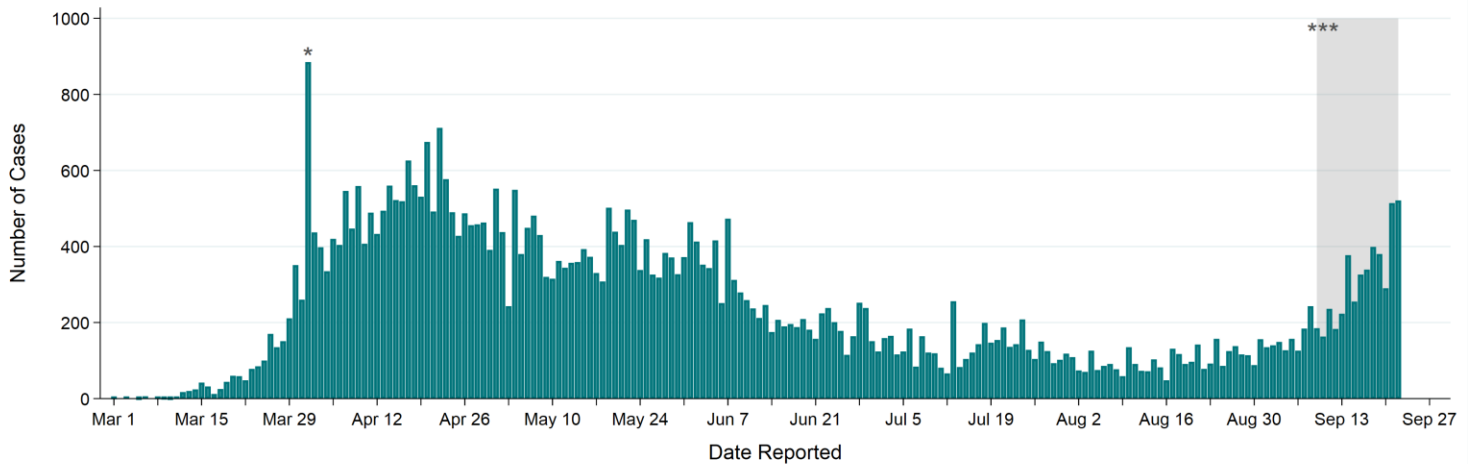
**FIGURE 9. Confirmed cases, by date of reporting, Sudbury and districts and Northeastern Ontario**



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: September 23, 2020)

\*\*\* Illnesses occurring during this period may not yet be reported

**FIGURE 10. Confirmed cases, by date of reporting, Ontario**

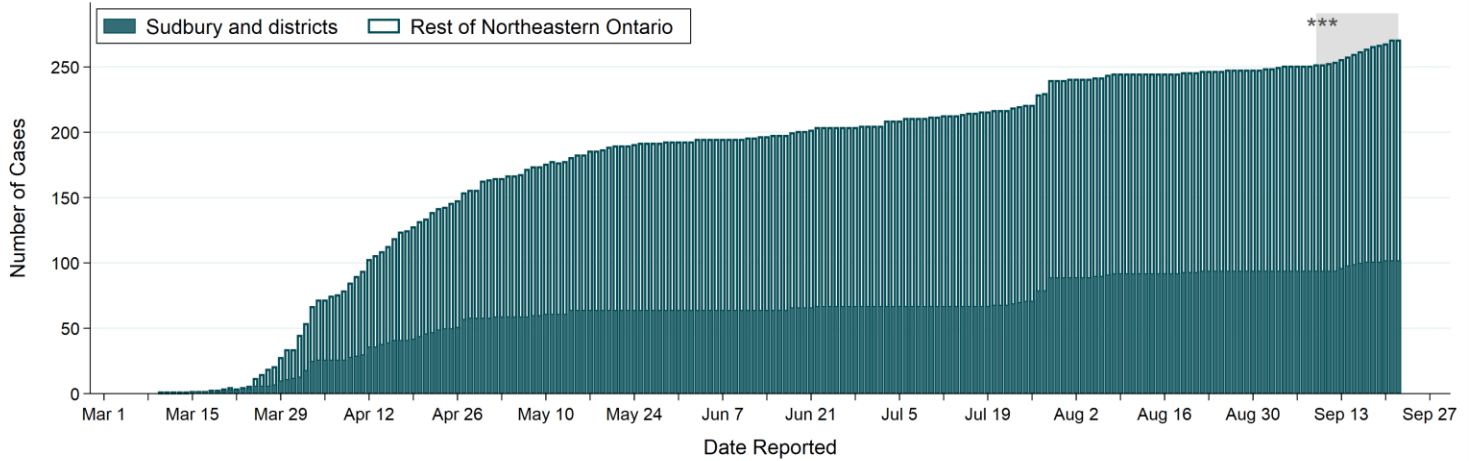


Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: September 23, 2020)

\* The large number of cases reported on this day is due to a methodology change in the data source.

\*\*\* Illnesses occurring during this period may not yet be reported

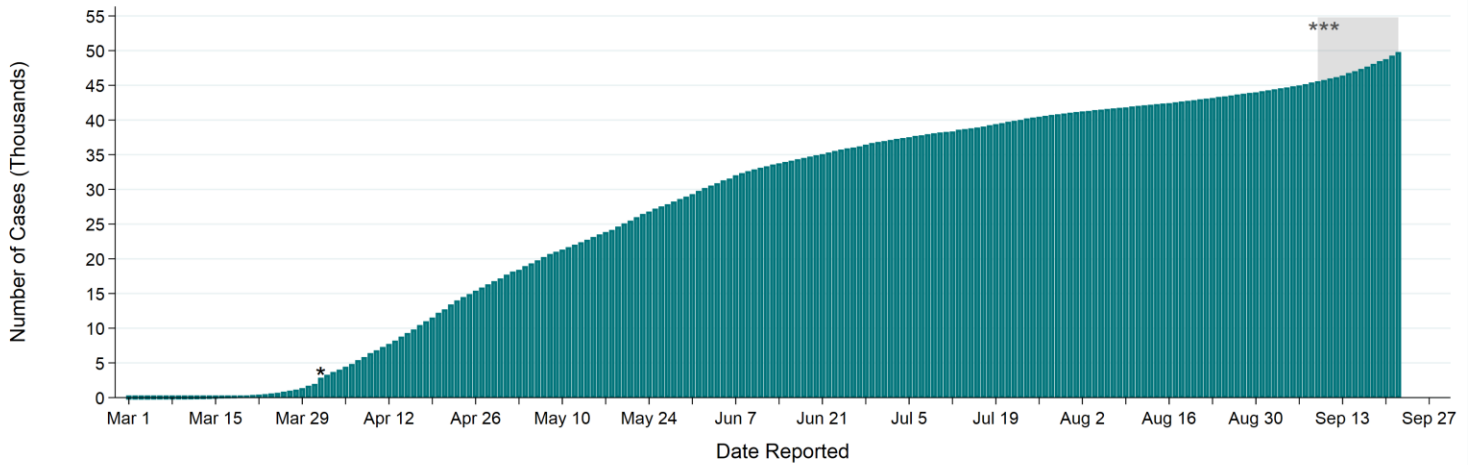
**FIGURE 11. Cumulative confirmed cases, by date of reporting, Sudbury and districts and Northeastern Ontario**



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: September 23, 2020)

\*\*\* Illnesses occurring during this period may not yet be reported

**FIGURE 12. Cumulative confirmed cases, by date of reporting, Ontario**



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: September 23, 2020)

\* The large number of cases reported on this day is due to a methodology change in the data source.

\*\*\* Illnesses occurring during this period may not yet be reported

**TABLE 6. Regional COVID-19 summary**

Geographic Area	Confirmed Cases	Incidence per 100,000*	Deceased	Case Fatality Rate	Resolved	Resolved Rate	Prevalence per 100,000**	Tests per 100,000	% Positive tests***	Data Availability†
Canada	146,663	390.2	9,234	6.3%	136,138	92.8%	28.0	18,002 ‡	2.2% ‡	September 22
Ontario	47,752	325.7	2,832	5.9%	44,174	92.5%	24.4	24,655	1.3%	September 22
Northern Ontario	427	53.6	13	3.0%	409	95.8%	2.3	26,164	0.2%	September 22
Northeastern Ontario	273	48.8	12	4.4%	260	95.2%	2.3	24,224	0.2%	September 22
Public Health Sudbury & Districts	102	51.3	2	2.0%	99	97.1%	1.5	18,883	0.3%	September 22

Data source: Statistics Canada, Government of Canada COVID-19 Update, Ontario MOH COVID-19 Update, integrated Public Health Information System (iPHIS) database, Northwestern Health Unit, Thunder Bay District Health Unit, Algoma Public Health, North Bay Parry Sound District Health Unit, Public Health Sudbury & Districts, Porcupine Health Unit, Timiskaming Health Unit.

\* Incidence is the number of new cases that have occurred since the beginning of the pandemic

\*\* Prevalence is the number of unresolved cases there currently are in the population

\*\*\* This is calculated using the following formula: Total Confirmed Cases / Total Tests. Prior to June 8, 2020, tests for which results had not yet been received were removed from this calculation.

† This report is based on the most currently available information at date and time of production. Public Health Sudbury & Districts may update this table after the 4 PM deadline for Northern health unit reporting to Ontario Health – North.

‡ The Public Health Agency of Canada reports the number (and rate) of people tested, rather than the number of tests conducted. The numbers presented here for Tests per 100,000 and % Positive Tests reflect are based on those data.