

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 29, 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:

- **108 confirmed cases** of COVID-19.
- **2 deaths.**
 - The *case fatality rate* is 1.9%.
 - Case Fatality Rate is calculated using the following formula: Total Deaths / Total Confirmed Cases.
- **41,005 tests** for COVID-19 completed as of 5:00 PM September 29, 2020.
 - The *testing rate* is 20,621 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:

- 49 cases (45.4%) were female.
 - Gender is not specified for cases 19 aged years and under.
- 45 cases (41.7%) were less than 40 years of age.
 - Data on gender and age groups are updated when there are sufficient data to ensure individual cases cannot be identified.
- 63 cases (58.3%) were cases with an unknown exposure, or their contacts.
- 19 cases (17.6%) are related to outbreaks in 10 long-term care homes.
 - 1 death is related to outbreaks in long-term care homes.

Epidemiology – Sudbury and Districts

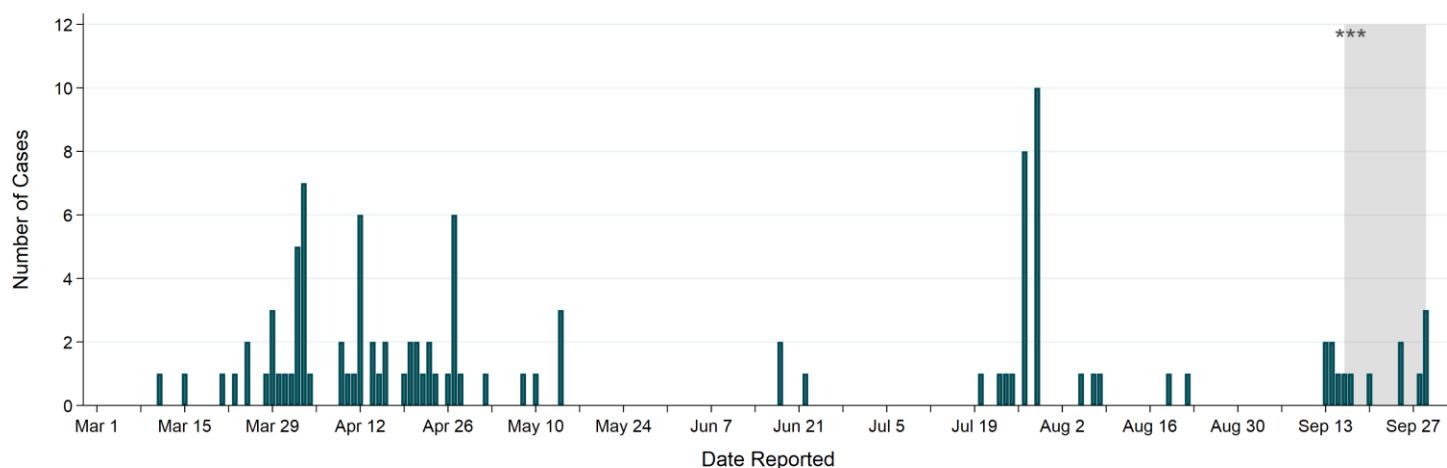
Total confirmed cases as of September 29, 2020 at 6:00 PM: **108 Cases**

Cases over time

Notes:

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

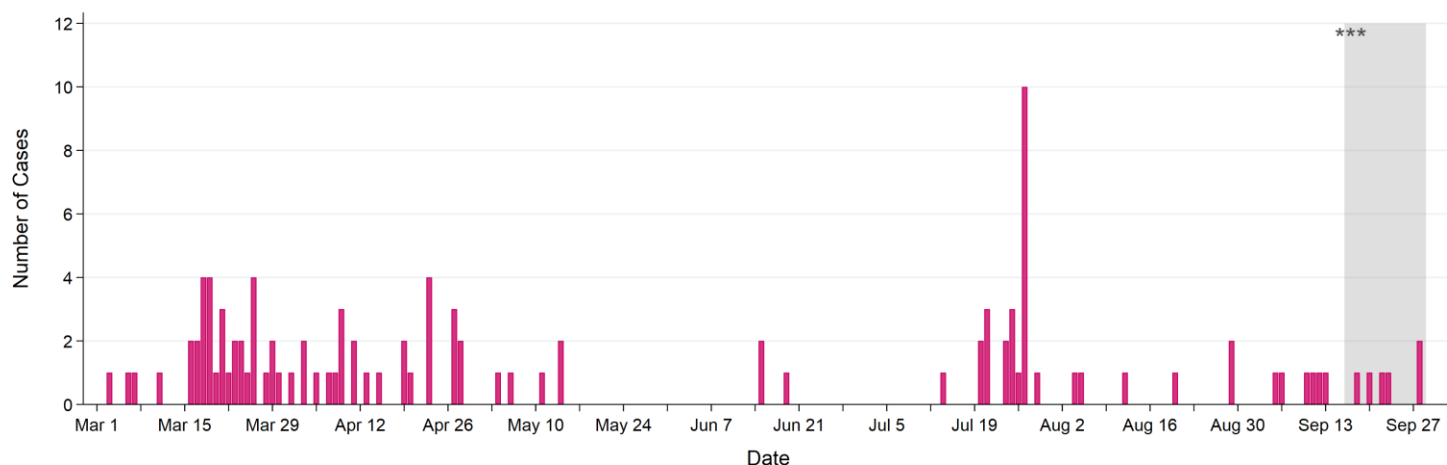
FIGURE 1. Confirmed cases, by date of reporting, Sudbury and districts



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: September 30, 2020)

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

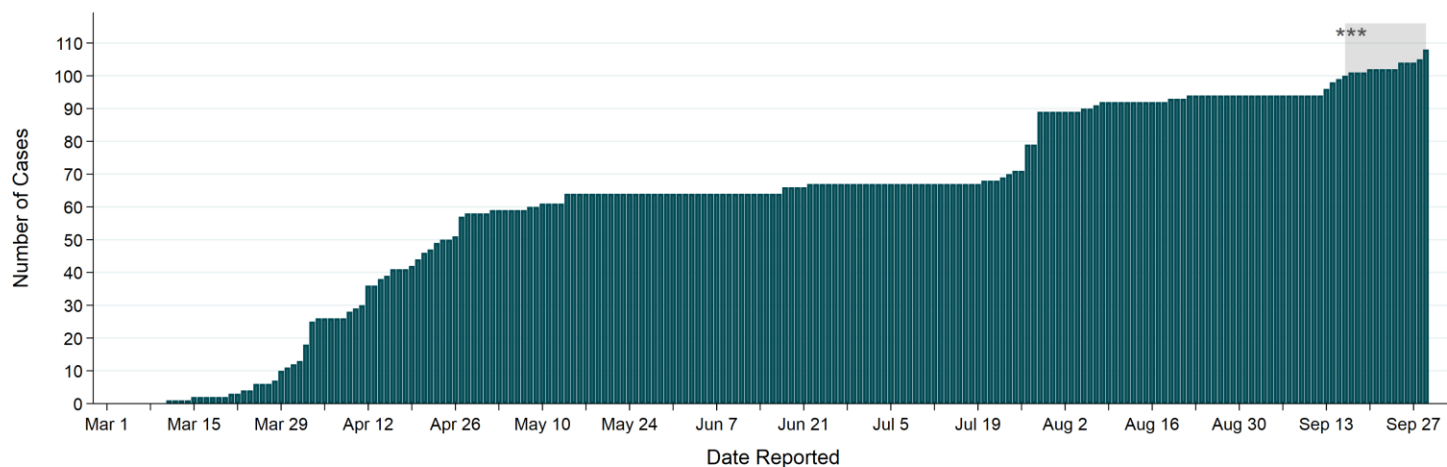
FIGURE 2. Confirmed cases, by date of symptom onset, Sudbury and districts



Data Source: Integrated Public Health Information System (iPHIS), Ministry of Health. (Access Date: September 29, 2020)

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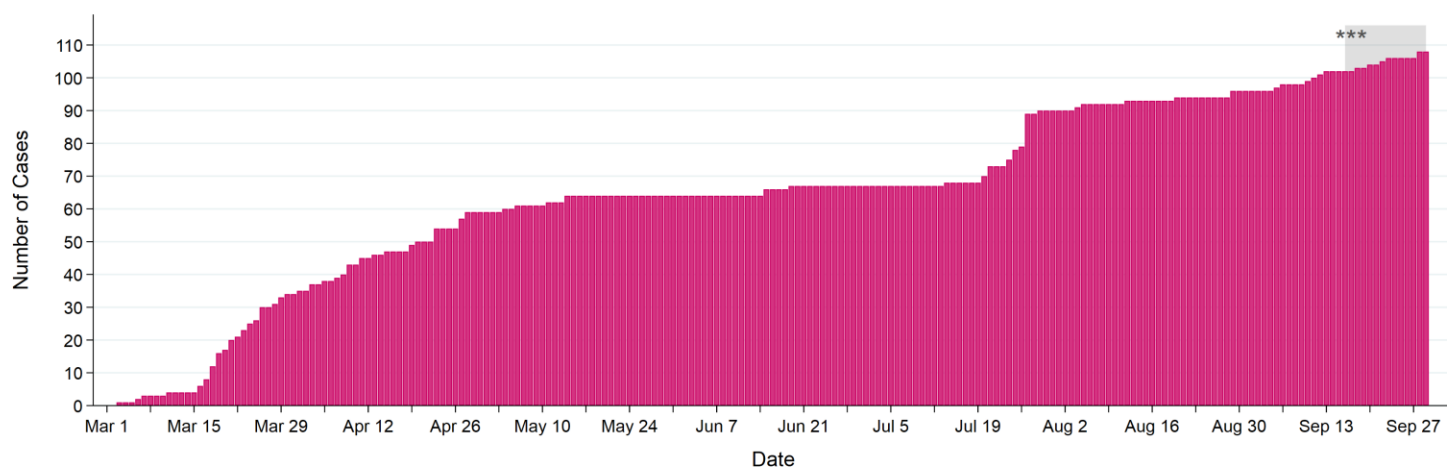
FIGURE 3. Cumulative confirmed cases, by date of reporting, Sudbury and districts



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: September 30, 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 29, 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	108	100%	41	100%
Change from previous report	4	3.8%*	4	10.8%*
Gender: Male	36	33.3%	11	26.8%
Gender: Female	49	45.4%	11	26.8%
Gender: Not specified**	23	21.3%	19	46.3%
Ages: 19 and under	19	17.6%	15	36.6%
Ages: 20-39	26	24.1%	7	17.1%
Ages: 40-59	30	27.8%	6	14.6%
Ages: 60-79	24	22.2%	6	14.6%
Ages: 80 and over	5	4.6%	3	7.3%
Ages: Not specified**	4	3.7%	4	9.8%
Area: Greater Sudbury	98	90.7%	37	90.2%
Area: Manitoulin District	5	4.6%	1	2.4%
Area: Sudbury District	5	4.6%	3	7.3%

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	108	102	94.4%	2	1.9%
Ontario	51,085	46,294	90.6%	2,844	5.6%

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

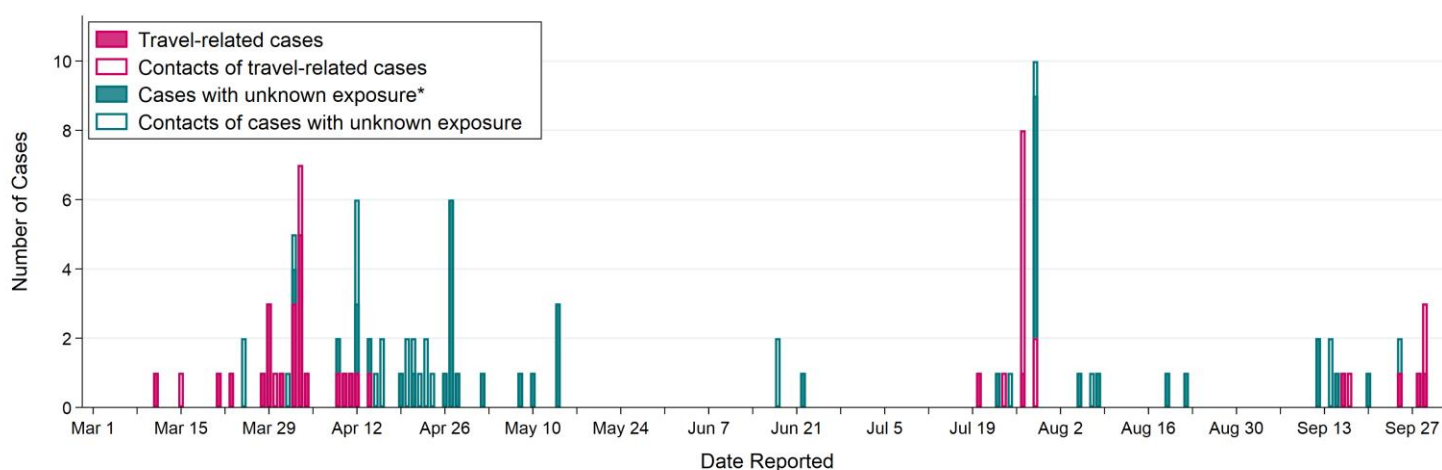
Probable Exposure

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

Exposure	Cases since March 11	Percentage (%)	Cases since July 20	Percentage (%)
Travel-related	28	25.9%	6	14.6%
Contact of a travel-related case	17	15.7%	13	31.7%
No travel and no contact with a known case (unknown exposure)	38	35.2%	16	39.0%
Contact of a case with unknown exposure	25	23.1%	6	14.6%

Data Source: Public Health Sudbury & Districts

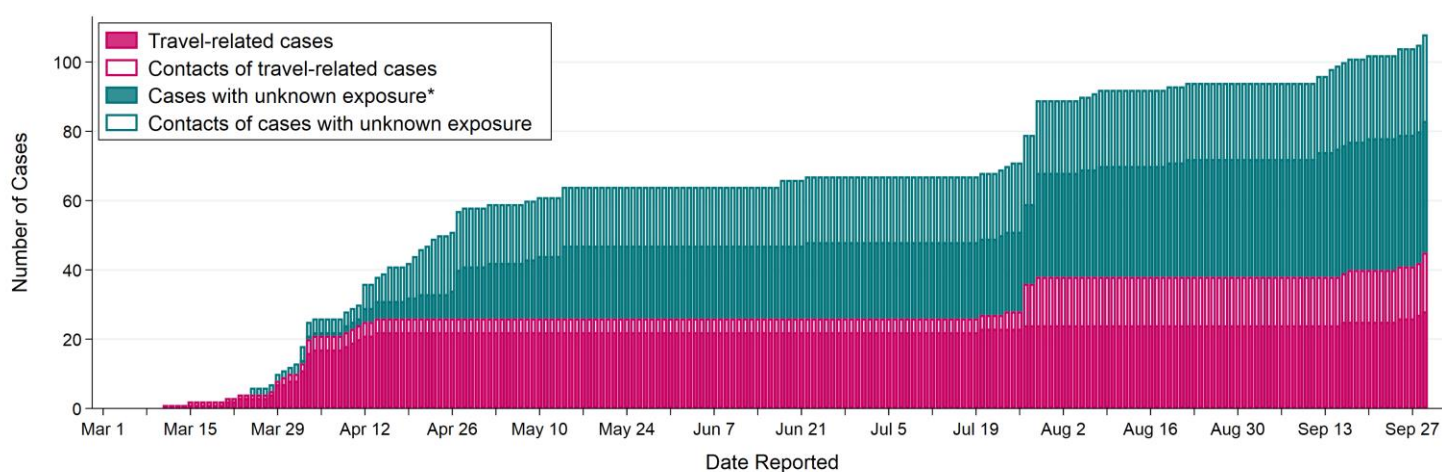
FIGURE 5. Confirmed Cases, by date of reporting and probable exposure, Sudbury and districts



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



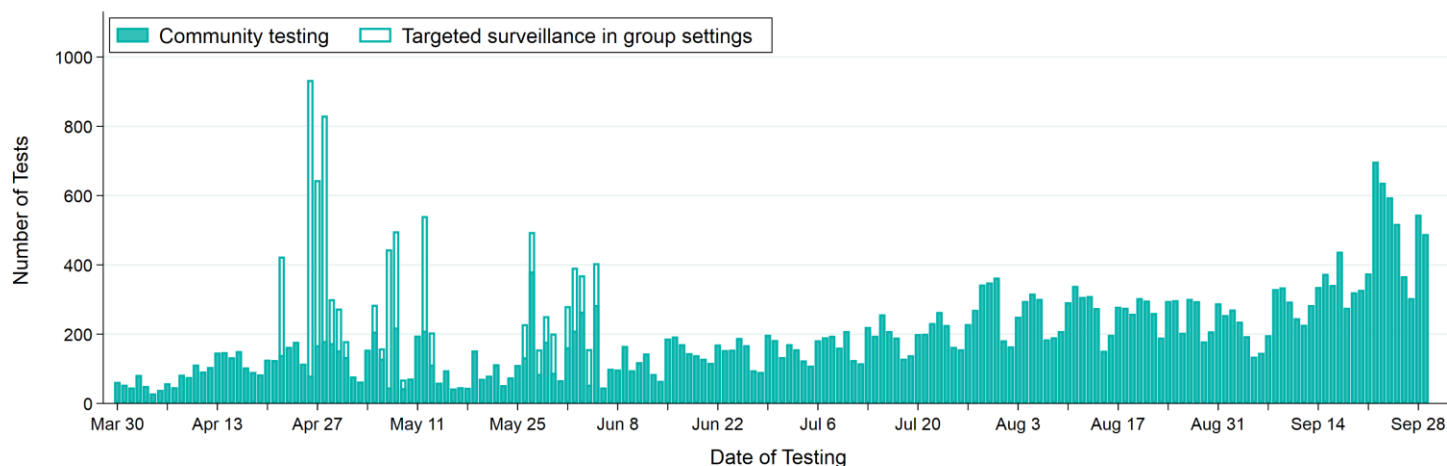
Data source: Public Health Sudbury & Districts

*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

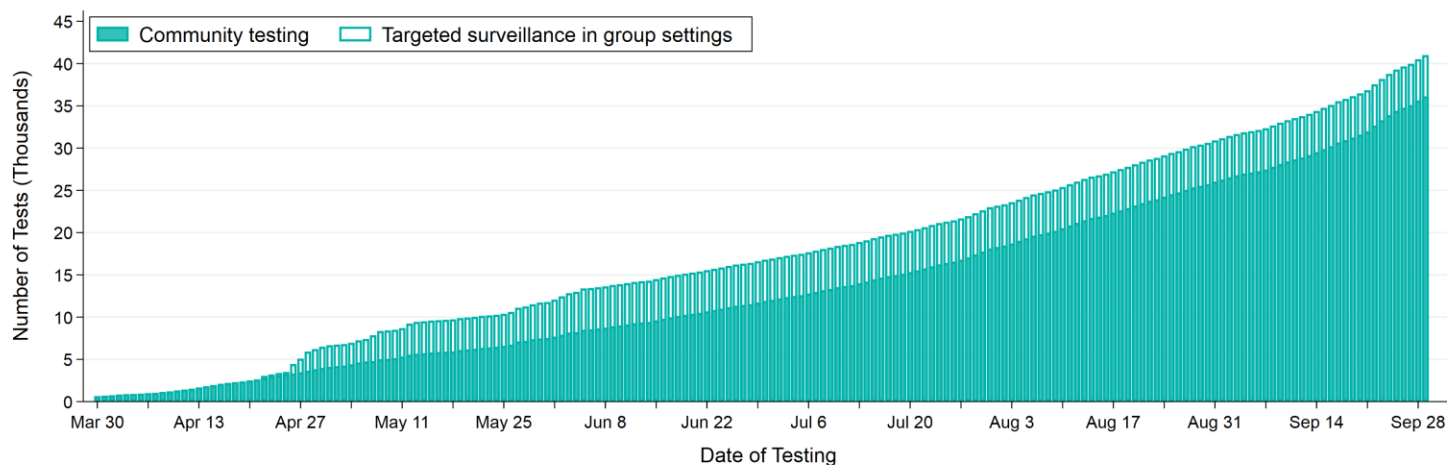
Total number of tests for COVID-19 as of September 29, 2020 at 5:00 PM: **41,005 tests**. This total, and the graphs below, include tests undertaken as part of ongoing targeted surveillance initiatives in long-term care homes, emergency child care centres, and retirement homes coordinated by Public Health Sudbury & Districts between April 25 and June 5, 2020.

FIGURE 7. Tests in Sudbury and districts, March 30 to September 29, 2020



Data source: Public Health Sudbury & Districts

FIGURE 8. Cumulative tests in Sudbury and districts, March 30 to September 29, 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

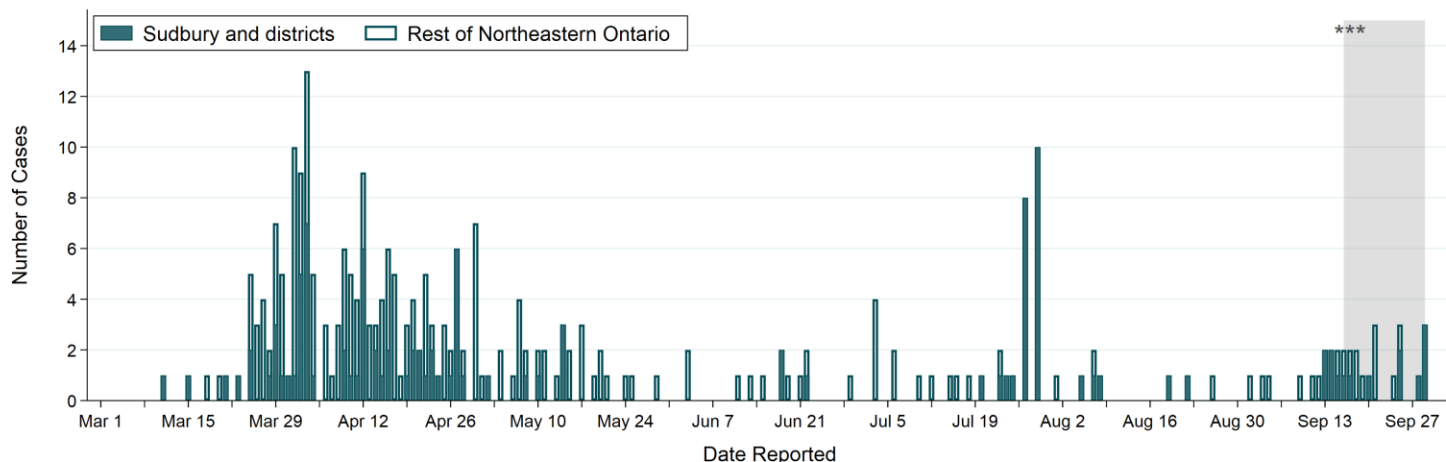
TABLE 5. Summary of active outbreaks in schools, Sudbury and districts

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

Data Source: Public Health Sudbury & Districts

Regional Context

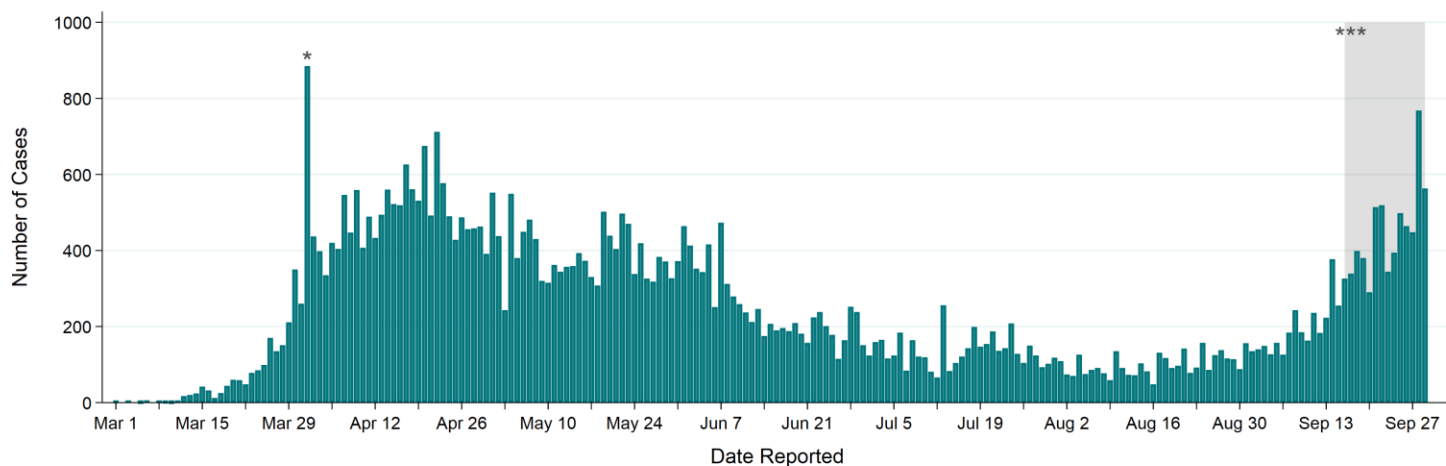
FIGURE 9. Confirmed cases, by date of reporting, Sudbury and districts and Northeastern Ontario



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: September 30, 2020)

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

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

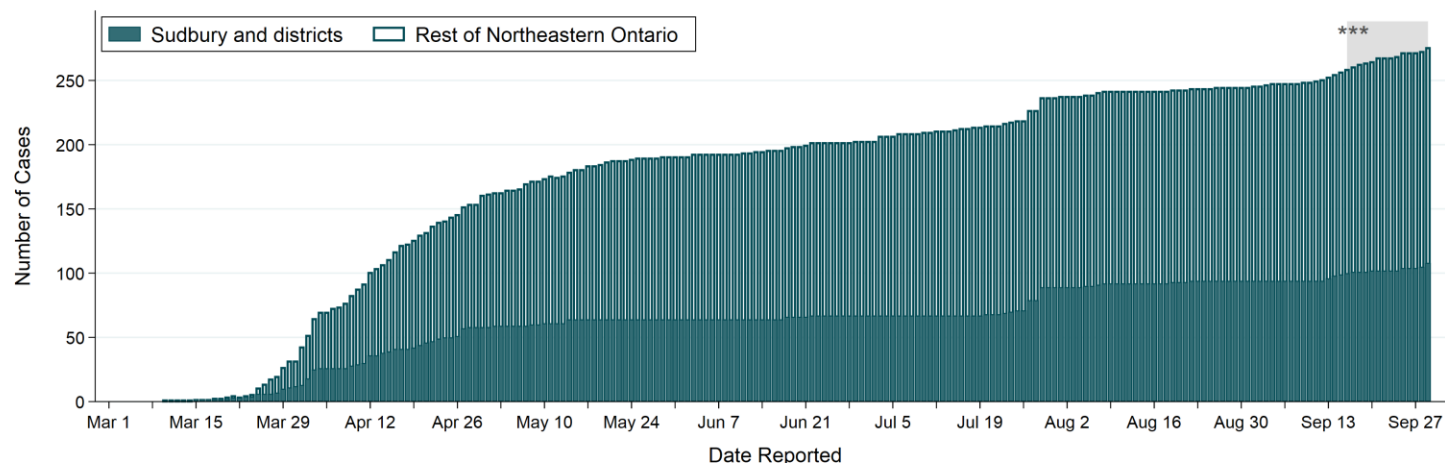


Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: September 30, 2020)

* 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

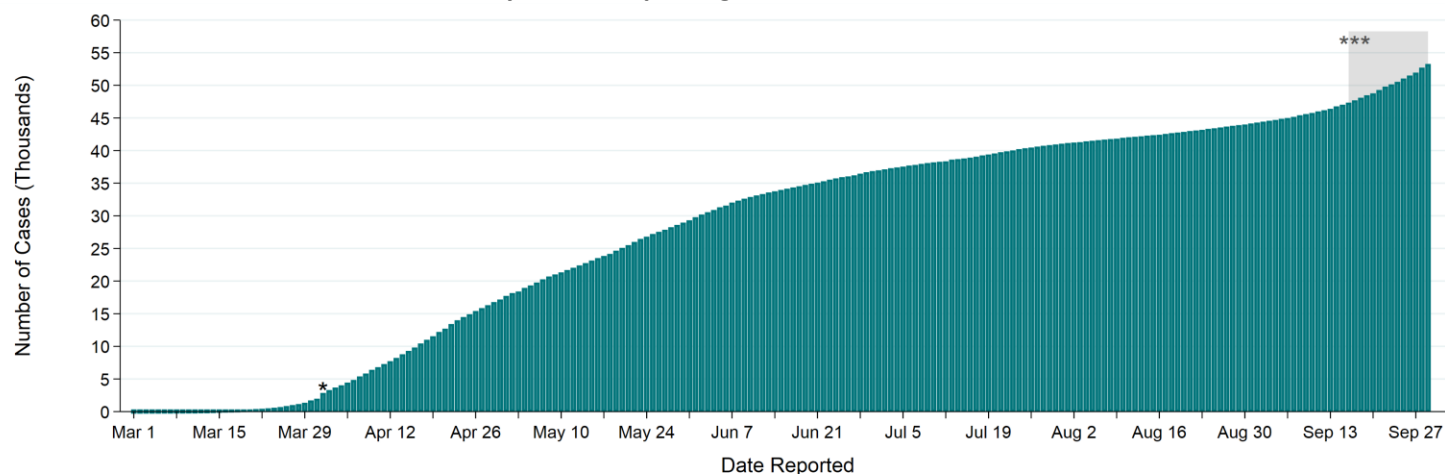
FIGURE 11. Cumulative confirmed cases, by date of reporting, Sudbury and districts and Northeastern Ontario



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: September 30, 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 30, 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	156,961	417.6	9,291	5.9%	143,028	91.1%	37.1	19,407 ‡	2.2% ‡	September 29
Ontario	51,085	348.5	2,844	5.6%	46,294	90.6%	32.7	26,519	1.3%	September 29
Northern Ontario	435	54.6	13	3.0%	415	95.4%	2.5	28,414	0.2%	September 29
Northeastern Ontario	278	49.7	12	4.3%	265	95.3%	2.3	26,491	0.2%	September 29
Public Health Sudbury & Districts	108	54.3	2	1.9%	102	94.4%	3.0	20,621	0.3%	September 29

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.