

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 October 15, 2020**, unless otherwise specified.

Highlights

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

- **111 confirmed cases** of COVID-19.
- **2 deaths.**
 - The *case fatality rate* is 1.8%.
 - Case Fatality Rate is calculated using the following formula: $\text{Total Deaths} / \text{Total Confirmed Cases} \times 100\%$.
- **82,357 tests** for COVID-19 completed as of end of day on October 14, 2020. Note: this includes preliminary counts of tests completed in the previous 6 days.
 - Please note: Effective October 16, 2020, Public Health Sudbury & Districts switched to a new, more complete source of data on COVID testing, which includes information on all tests and not just those performed at COVID Assessment Centres. Because of this, testing numbers will be significantly higher than those previously reported.
 - The *testing rate* is 41,416 tests per 100,000 population.
 - The percent of tests that are positive is 0.2%.
 - This is calculated using the following formula: $\text{Total Positive Tests} / \text{Total Tests} \times 100\%$. Note: an individual may have more than one test completed.

Of the confirmed cases:

- 50 cases (45.0%) were female.
 - Gender is not specified for cases 19 aged years and under.
- 48 cases (43.2%) 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.
- 64 cases (57.7%) were cases with an unknown exposure, or their contacts.
- 19 cases (17.1%) 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

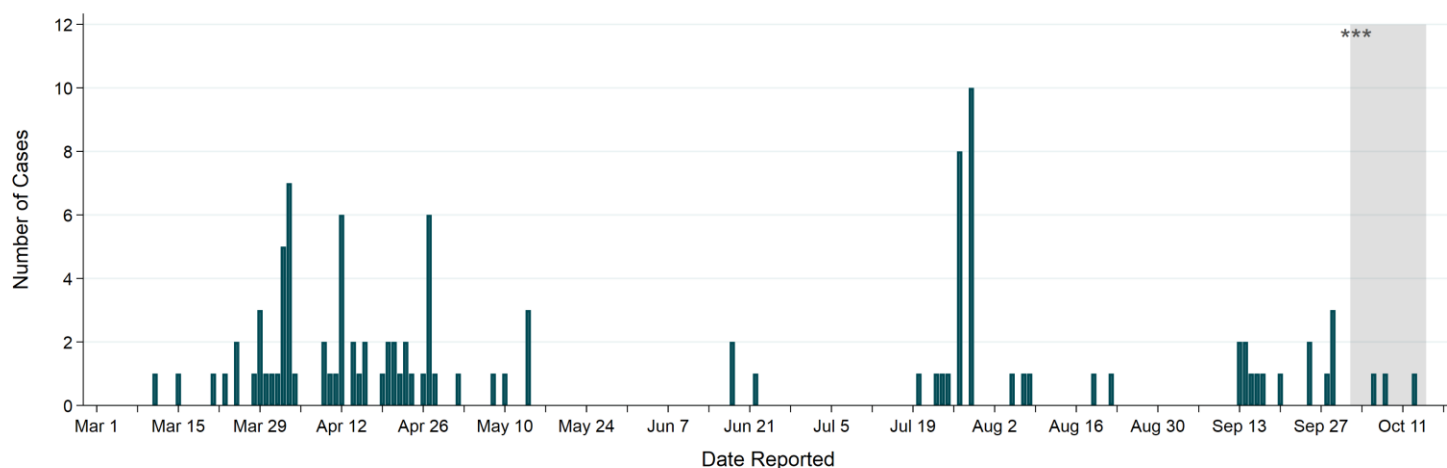
Total confirmed cases as of October 15, 2020 at 6:00 PM: **111 Cases**

Cases over time

Notes:

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

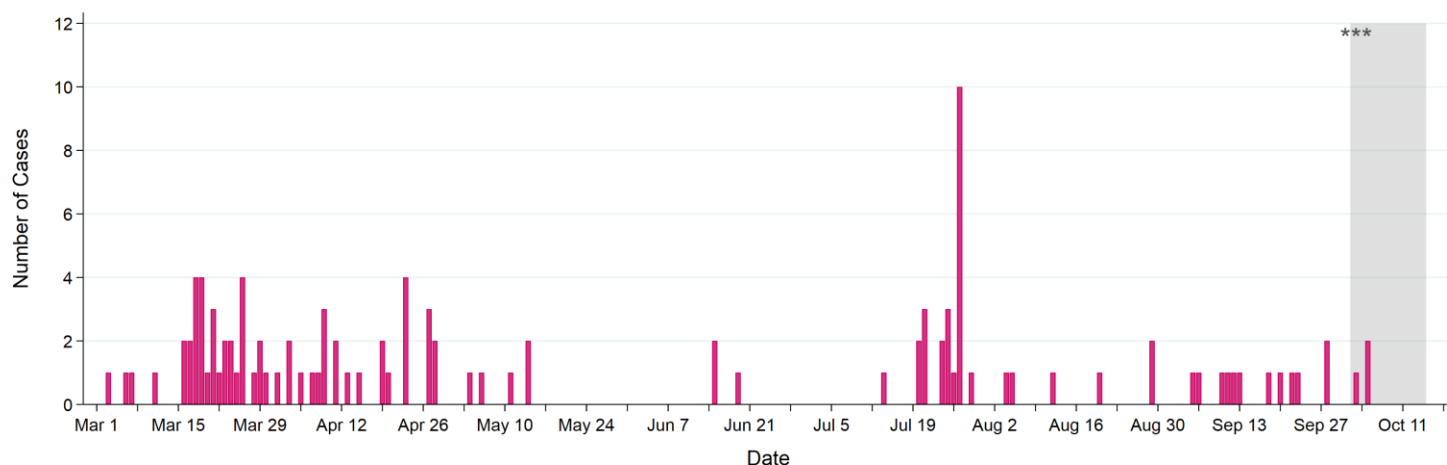
FIGURE 1. Confirmed cases, by date of reporting, Sudbury and districts



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: October 16, 2020)

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

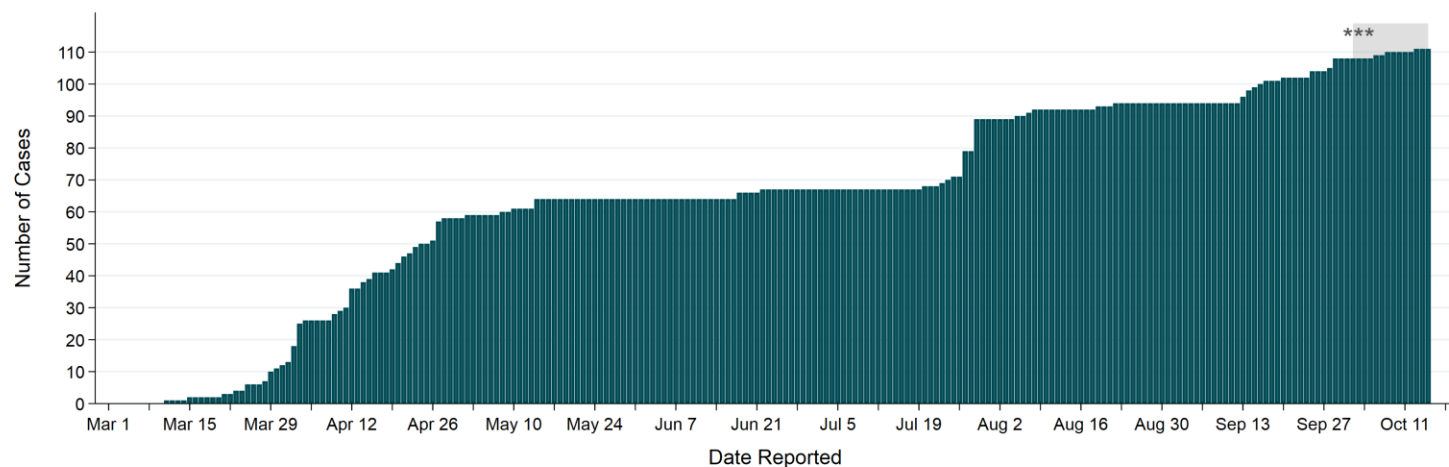
FIGURE 2. Confirmed cases, by date of symptom onset, Sudbury and districts



Data Source: Integrated Public Health Information System (iPHIS), Ministry of Health. (Access Date: October 15, 2020)

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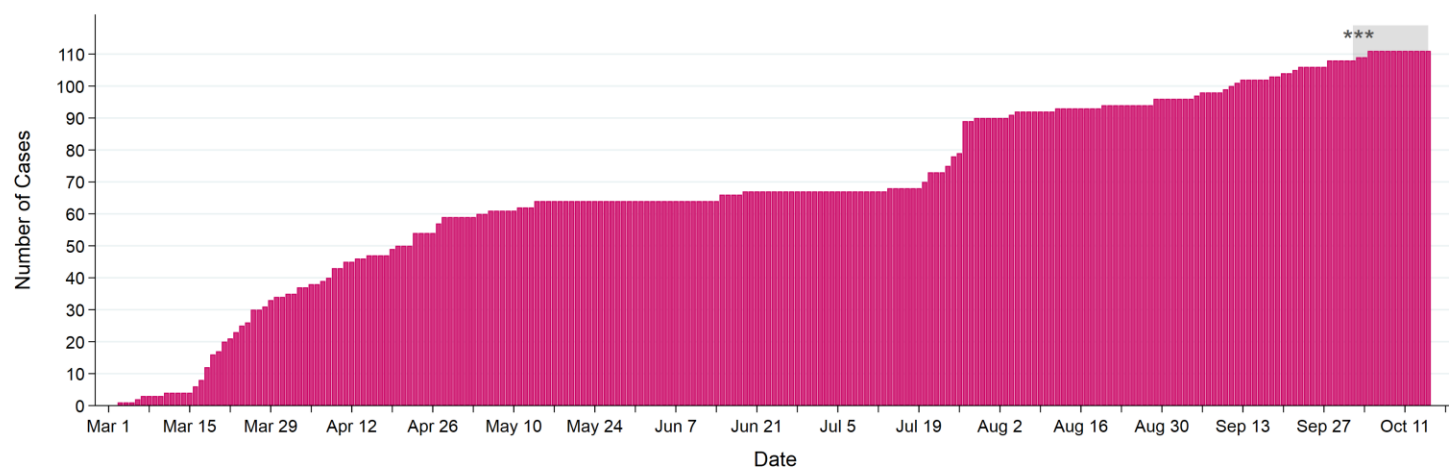
FIGURE 3. Cumulative confirmed cases, by date of reporting, Sudbury and districts



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: October 16, 2020)

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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: October 15, 2020)

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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	111	100%	44	100%
Change from previous report	0	0.0%*	0	0.0%*
Gender: Male	40	36.0%	15	34.1%
Gender: Female	50	45.0%	12	27.3%
Gender: Not specified**	21	18.9%	17	38.6%
Ages: 19 and under	19	17.1%	15	34.1%
Ages: 20-39	29	26.1%	10	22.7%
Ages: 40-59	31	27.9%	7	15.9%
Ages: 60-79	25	22.5%	7	15.9%
Ages: 80 and over	5	4.5%	3	6.8%
Ages: Not specified**	2	1.8%	2	4.5%
Area: Greater Sudbury	101	91.0%	40	90.9%
Area: Manitoulin District	5	4.5%	1	2.3%
Area: Sudbury District	5	4.5%	3	6.8%

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	111	109	98.2%	2	1.8%
Ontario	62,196	56,313	90.5%	3,022	4.9%

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

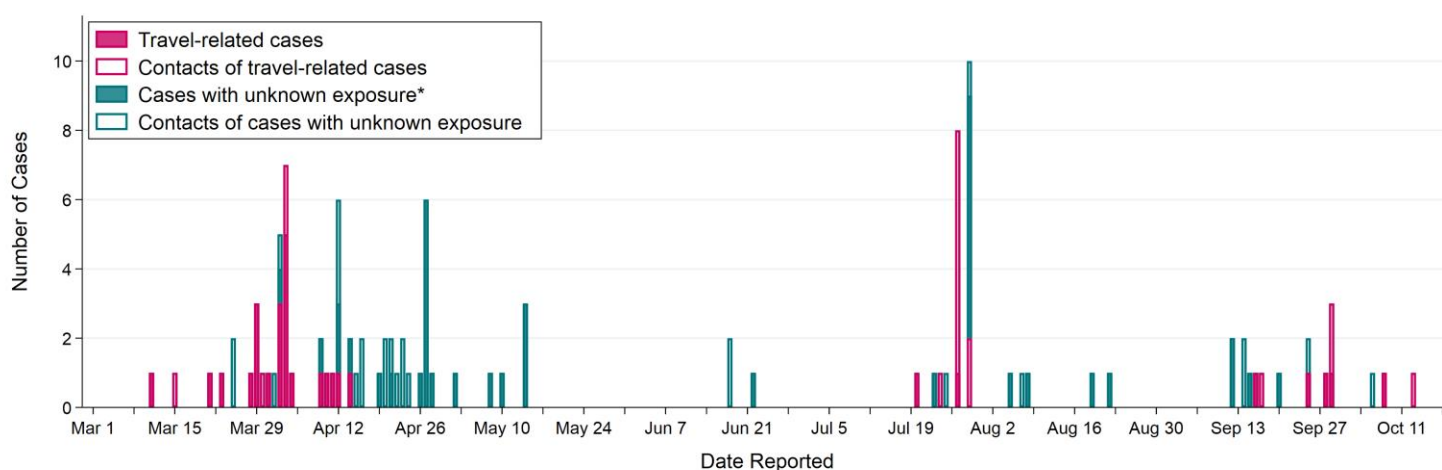
Probable Exposure

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

Exposure	Cases since March 11	Percentage (%)	Cases since July 20	Percentage (%)
Travel-related	29	26.1%	7	15.9%
Contact of a travel-related case	18	16.2%	14	31.8%
No travel and no contact with a known case (unknown exposure)	38	34.2%	16	36.4%
Contact of a case with unknown exposure	26	23.4%	7	15.9%

Data Source: Public Health Sudbury & Districts

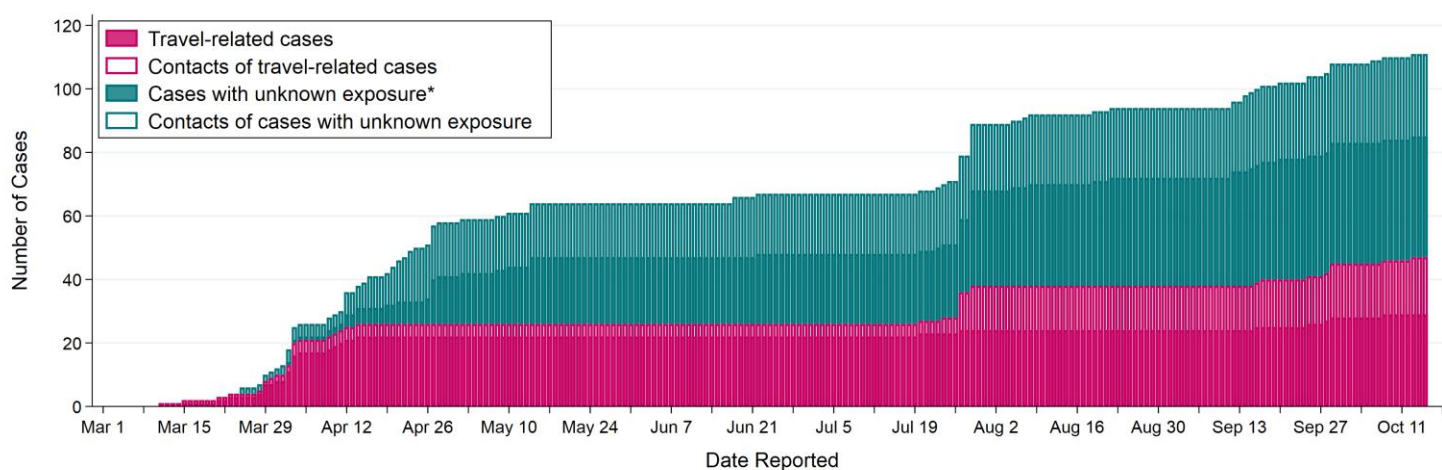
FIGURE 5. Confirmed Cases, by date of reporting and probable exposure, Sudbury and districts



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

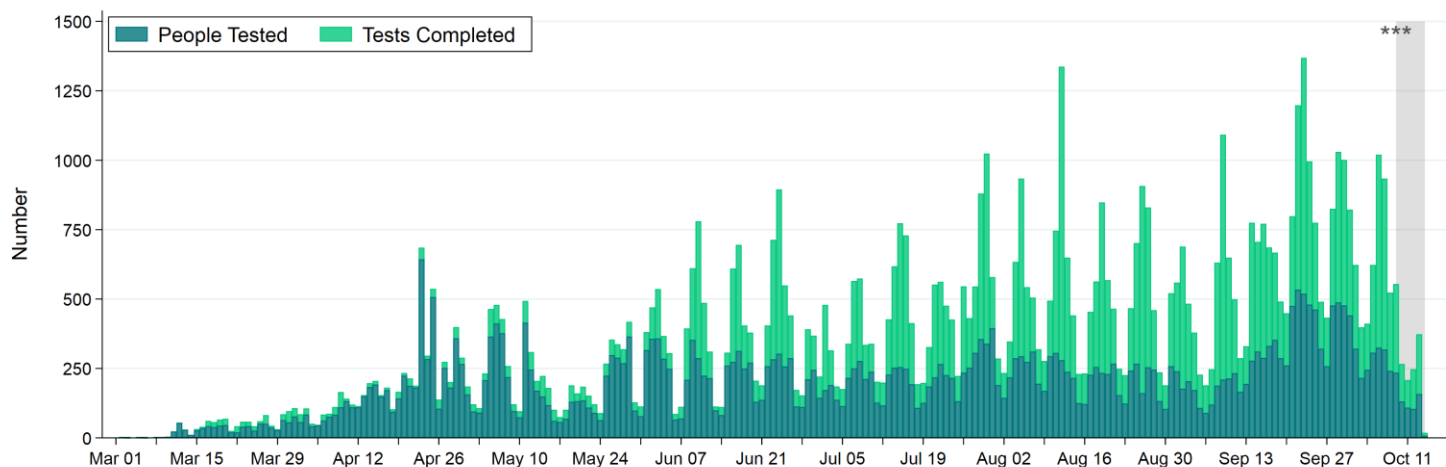
*Cases with unknown exposure are defined as *No history of travel and no contact with a known case (unknown exposure)* in Table 3, above

Testing

Total number of tests for COVID-19 as of end of day on October 14, 2020: **82,357 tests** (this includes preliminary counts of tests completed in the previous 6 days.)

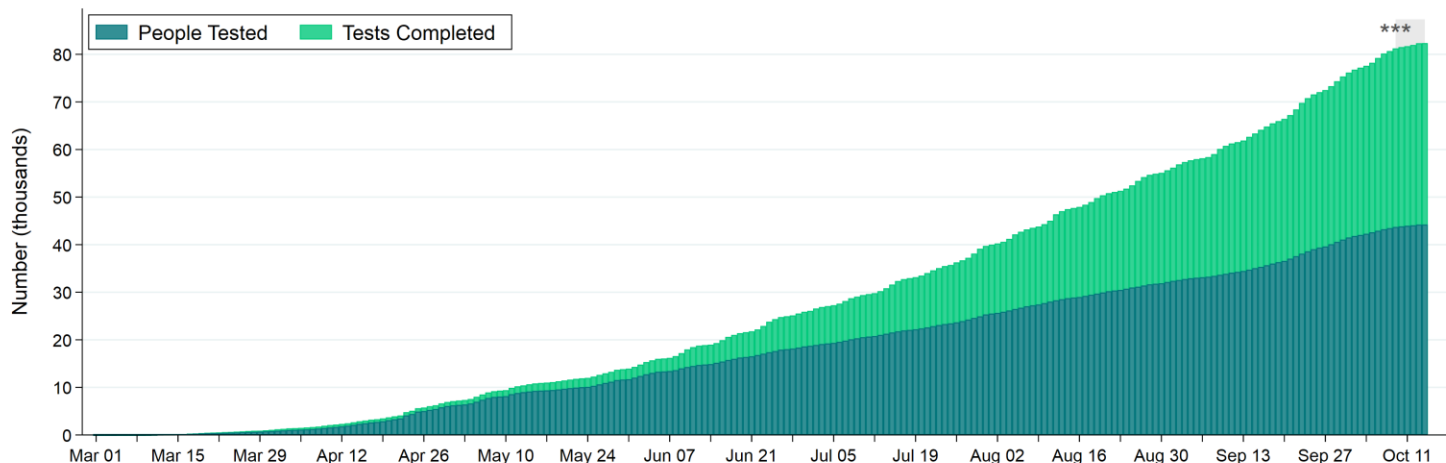
Please note: Effective October 16, 2020, Public Health Sudbury & Districts switched to a new, more complete source of data on COVID testing, which includes information on all tests and not just those performed at COVID Assessment Centres. Because of this, testing numbers will be significantly higher than those previously reported.

FIGURE 7. Number of tests and people tested in Sudbury and districts, March 30 to October 14, 2020



Data source: COVID-19 Testing Report (SAS Visual Analytics), Ministry of Health, October 16, 2020

FIGURE 8. Cumulative number of tests and people tested in Sudbury and districts, March 30 to October 14, 2020



Data source: COVID-19 Testing Report (SAS Visual Analytics), Ministry of Health, October 16, 2020

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

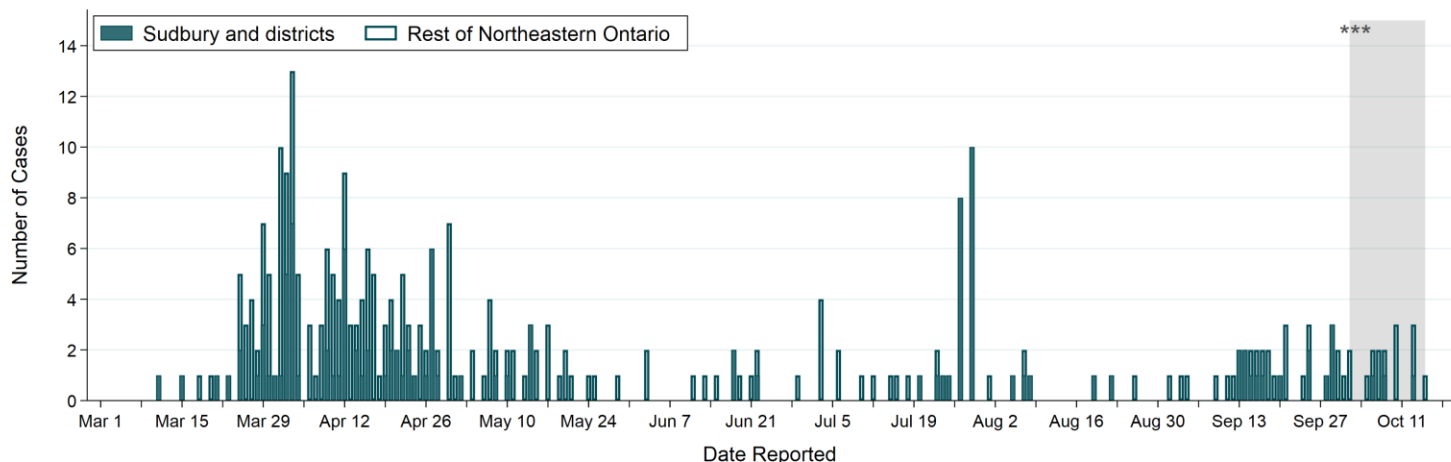
TABLE 5. Summary of active outbreaks in schools, Sudbury and districts

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

Data Source: Public Health Sudbury & Districts

Regional Context

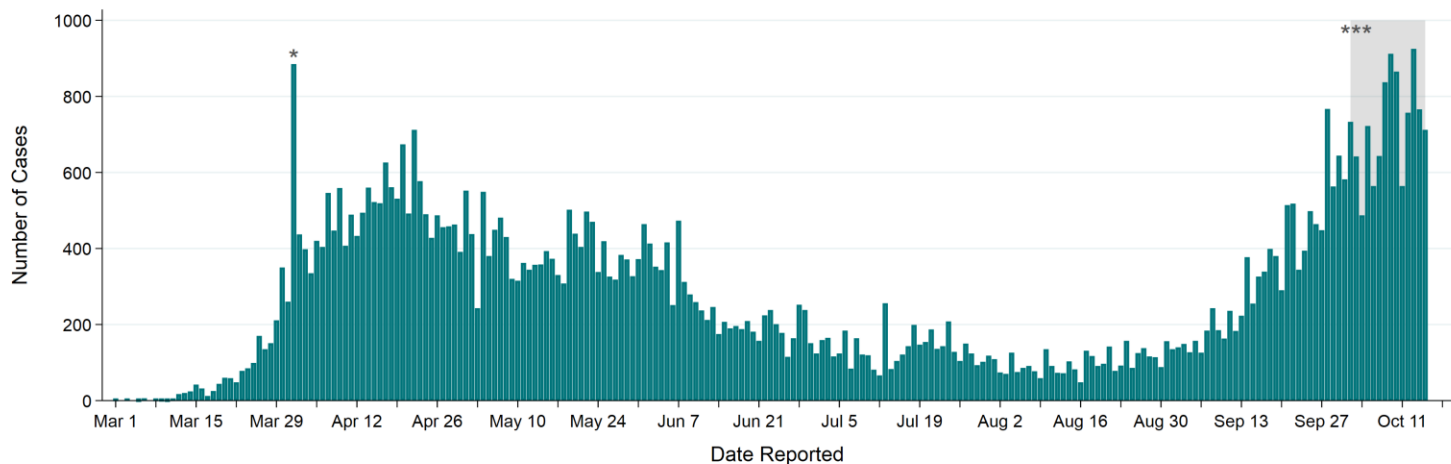
FIGURE 9. Confirmed cases, by date of reporting, Sudbury and districts and Northeastern Ontario



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: October 16, 2020)

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

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

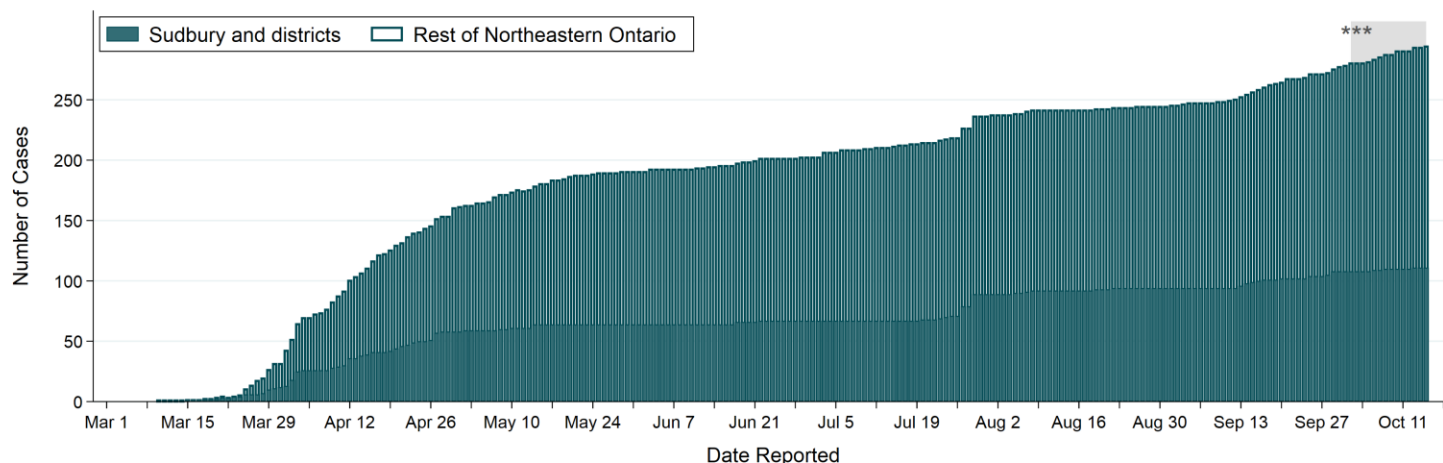


Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: October 16, 2020)

* 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

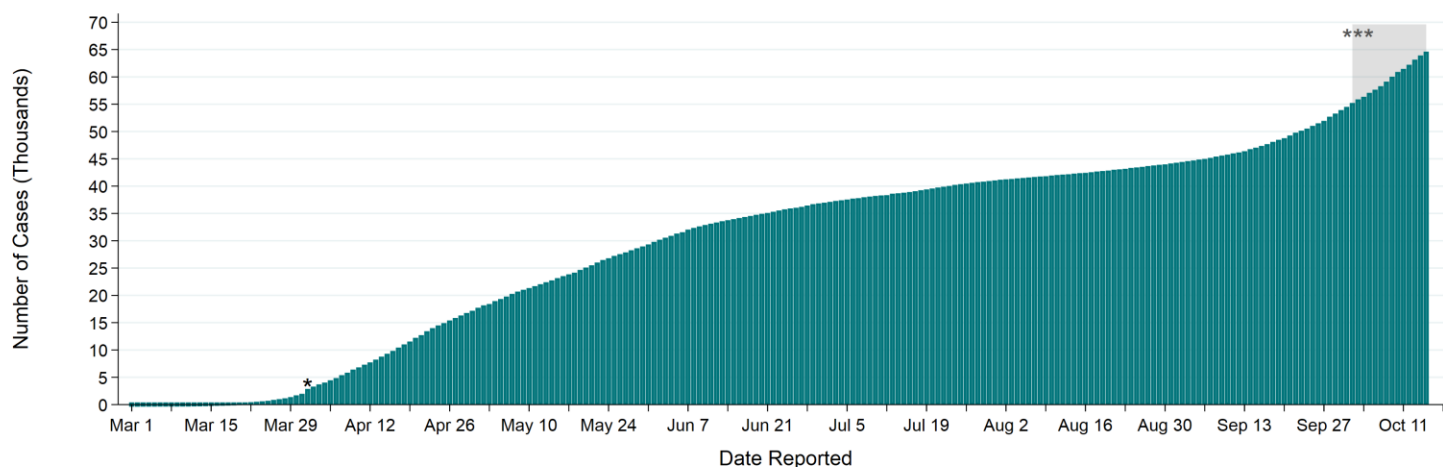
FIGURE 11. Cumulative confirmed cases, by date of reporting, Sudbury and districts and Northeastern Ontario



Data Source: COVID-19 Canada Open Data Working Group <https://github.com/ishaberry/Covid19Canada> (Access Date: October 16, 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: October 16, 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 case summary

Geographic Area	Confirmed Cases	Incidence per 100,000*	Deceased	Case Fatality Rate	Resolved	Resolved Rate	Prevalence per 100,000**	Data Availability†
Canada	191,732	510.1	9,699	5.1%	171,189	89.3%	54.7	October 15
Ontario	62,196	424.3	3,022	4.9%	56,313	90.5%	40.1	October 15
Northern Ontario	475	59.6	13	2.7%	460	96.8%	1.9	October 15
Northeastern Ontario	297	53.1	12	4.0%	286	96.3%	2.0	October 15
Public Health Sudbury & Districts	111	55.8	2	1.8%	109	98.2%	1.0	October 15

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 report is based on the most currently available information at date and time of production.

TABLE 7. Regional COVID-19 testing summary

Geographic Area	Tests Completed	Tests per 100,000	% Tests that were Positive*	People Tested	People Tested per 100,000	% People Tested who were Positive**	Data Availability†
Canada	Not Available	Not Available	Not Available	8,403,144	22,355	2.3%	October 15
Ontario	4,129,858	28,171	1.7%	2,453,434	16,735	2.5%	October 14
Northern Ontario	304,427	38,201	0.2%	160,942	20,196	0.3%	October 14
Northeastern Ontario	211,645	37,834	0.2%	109,331	19,544	0.3%	October 14
Public Health Sudbury & Districts	82,357	41,416	0.2%	44,221	22,238	0.3%	October 14

Data source: Statistics Canada, Government of Canada COVID-19 Update; COVID-19 Testing Report (SAS Visual Analytics), Ontario Ministry of Health, October 16, 2020

* This is calculated using the following formula: Total Positive Tests / Total Tests x 100%. Note: an individual person may be tested on multiple different occasions. Samples collected on each such occasion may undergo multiple tests, and thus may yield multiple positive tests. The number of positive tests will therefore exceed the number of confirmed cases within an area.

** This is calculated using the following formula: Total Confirmed Cases / Total People Tested x 100%

† This report is based on the most currently available information at date and time of production.