

## Daily Epidemiologic Summary

# COVID-19 in Ontario: January 15, 2020 to March 06, 2021

This report includes the most current information available from CCM as of **March 06, 2021**.

Please visit the interactive [Ontario COVID-19 Data Tool](#) to explore recent COVID-19 data by public health unit, age group, sex, and trends over time.

A [weekly summary report](#) is available with additional information to complement the daily report.

This **daily** report provides an epidemiologic summary of recent COVID-19 activity in Ontario. The change in cases is determined by taking the cumulative difference between the current day and the previous day.

## Highlights

- There are a total of 308,296 confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
  - An increase of 1,299 confirmed cases (percent change of +31.2%)
  - An increase of 15 deaths (percent change of +150.0%)
  - An increase of 1,105 resolved cases (percent change of -4.1%)

In this document, the term 'change in cases' refers to cases publicly reported by the province for a given day. Data corrections or updates can result in case records being removed and or updated from past reports and may result in subset totals for updated case counts (i.e., age group, gender) differing from the overall updated case counts.

The term public health unit reported date in this document refers to the date local public health units were first notified of the case.

## Case Characteristics

**Table 1a. Summary of recent confirmed cases of COVID-19: Ontario**

	Change in cases March 05, 2021	Change in cases March 06, 2021	Percentage change March 06, 2021 compared to March 05, 2021	Cumulative case count as of March 06, 2021
Total number of cases	990	1,299	+31.2%	308,296
Number of deaths	6	15	+150.0%	7,067
Number resolved	1,152	1,105	-4.1%	290,840

**Note:** The number of cases publicly reported by the province each day may not align with case counts reported to public health on a given day; public health unit reported date refers to the date local public health was first notified of the case. Data corrections or updates can result in case records being removed and or updated from past reports.

**Data Source:** CCM

**Table 1b. Summary of recent confirmed cases of COVID-19 by age group and gender: Ontario**

	Change in cases March 05, 2021	Change in cases March 06, 2021	Cumulative case count as of March 06, 2021
Gender: Male	509	644	151,786
Gender: Female	476	618	154,860
Ages: 19 and under	177	272	41,619
Ages: 20-39	396	448	113,005
Ages: 40-59	287	355	88,966
Ages: 60-79	105	175	44,226
Ages: 80 and over	23	40	20,400

**Note:** Not all cases have a reported age or gender reported. Data corrections or updates can result in case records being removed and or updated from past reports and may result in subset totals (i.e., age group, gender) differing from past publicly reported case counts.

**Data Source:** CCM

**Table 2. Summary of recent confirmed cases of COVID-19 in school aged children by age group, August 30, 2020 to March 06, 2021: Ontario**

	Change in cases March 05, 2021	Change in cases March 06, 2021	Cumulative case count from August 30, 2020 to March 06, 2021
Ages: 4 to 8	41	67	7,039
Ages: 9 to 13	54	71	9,425
Ages: 14 to 17	36	54	9,812

**Note:** Includes all confirmed cases of COVID-19 for specified ages, regardless of school attendance. Data corrections or updates can result in case records being removed and or updated from past reports and may result in subset totals (i.e., age group) differing from past publicly reported case counts.

**Data Source:** CCM

**Table 3. Summary of recent confirmed cases of COVID-19 in long-term care homes: Ontario**

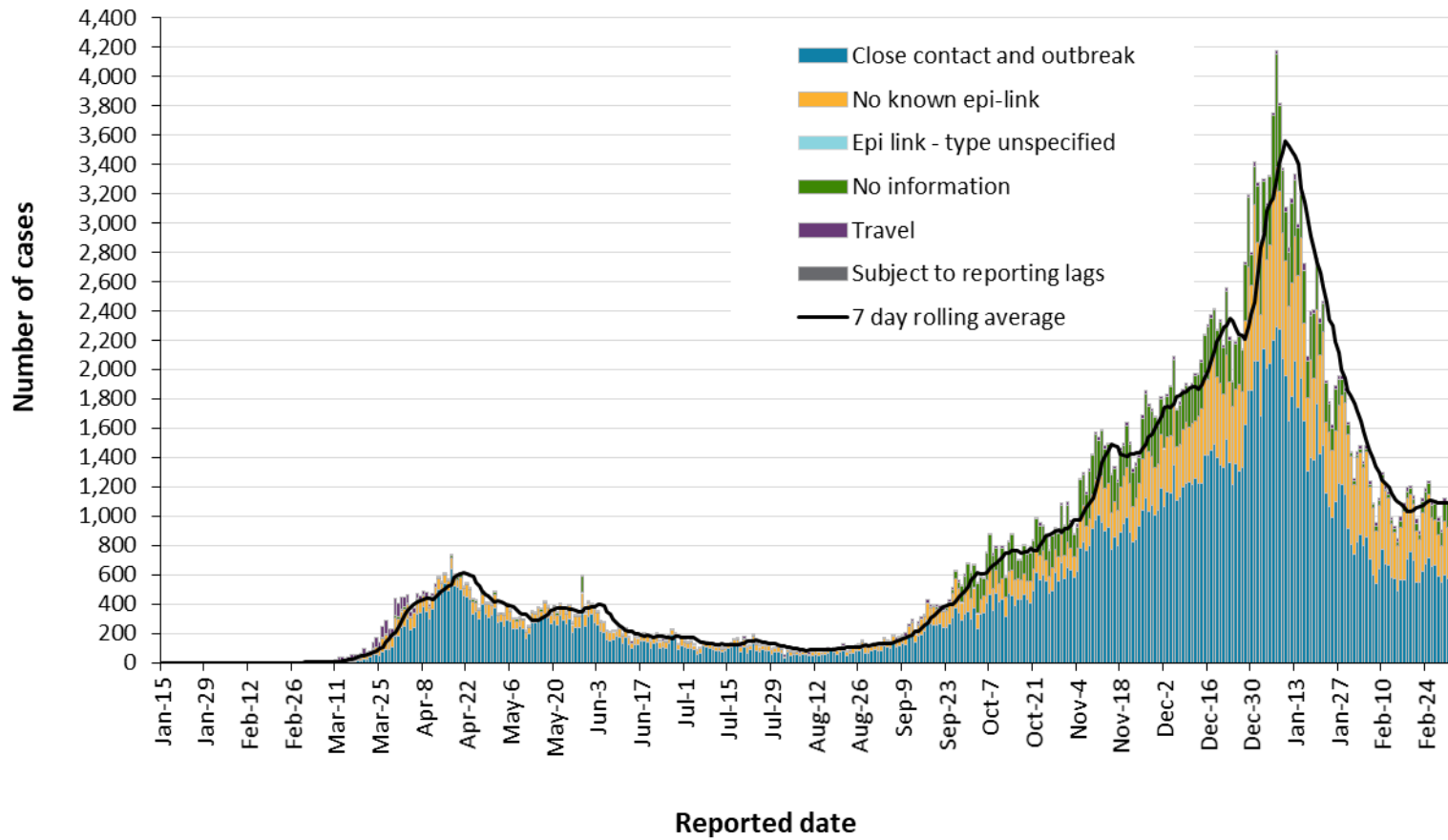
Long-term care home cases	Change in cases March 05, 2021	Change in cases March 06, 2021	Cumulative case count as of March 06, 2021
Residents	12	4	14,980
Health care workers	33	4	6,689
Deaths among residents	2	1	3,876
Deaths among health care workers	0	0	10

**Note:** Information on how long-term care home residents and health care workers are identified is available in the technical notes. Also, the change in cases in these categories may represent existing case records that have been updated.

**Data Source:** CCM

# Time

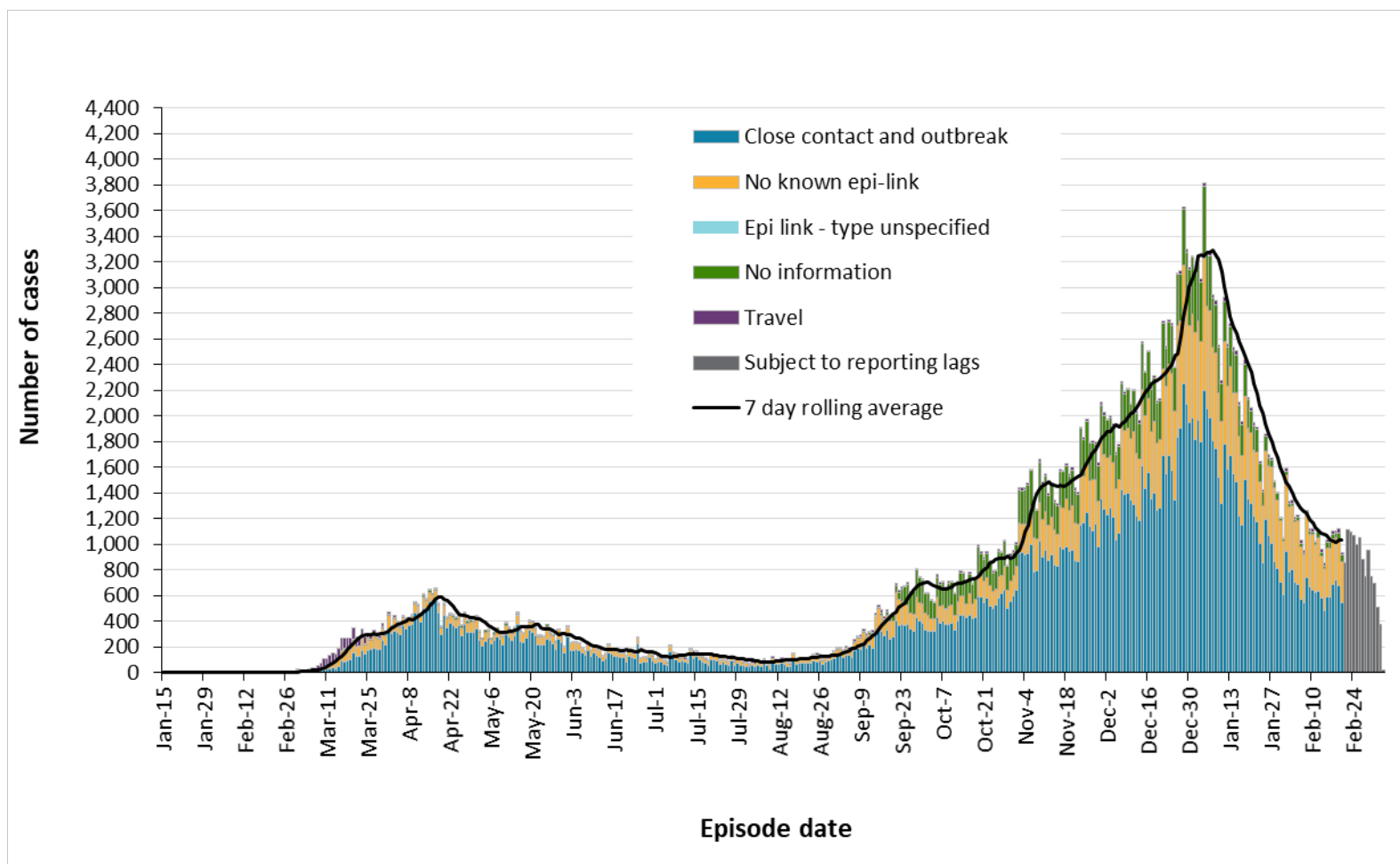
Figure 1. Confirmed cases of COVID-19 by likely acquisition and public health unit reported date: Ontario, January 15, 2020 to March 06, 2021



Data Source: CCM

COVID-19 in Ontario: January 15, 2020 to March 06, 2021

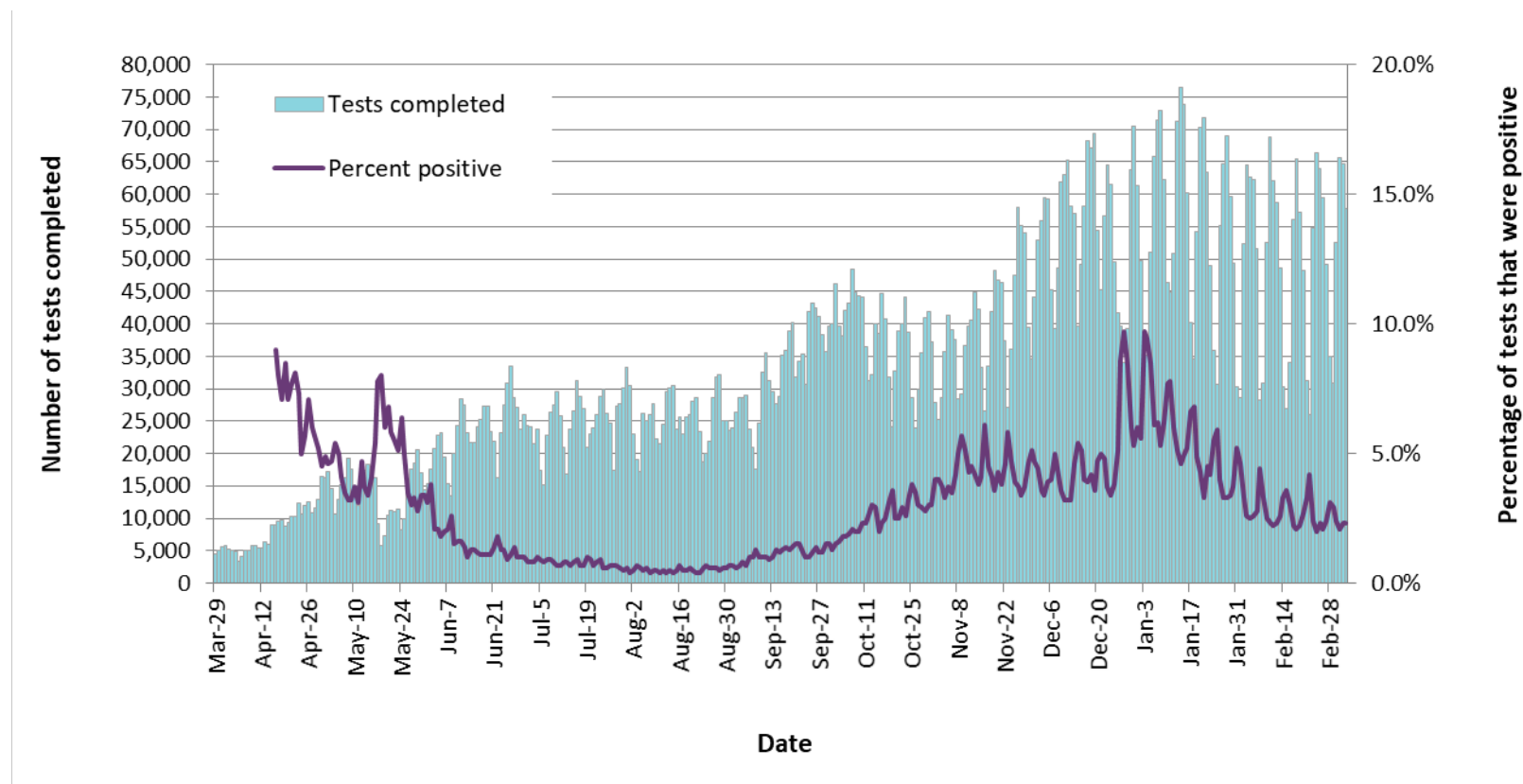
**Figure 2. Confirmed cases of COVID-19 by likely acquisition and approximation of symptom onset date: Ontario, January 15, 2020 to March 06, 2021**



**Note:** Not all cases may have an episode date and those without one are not included in the figure. Episode date is defined and available in the technical notes.

**Data Source:** CCM

**Figure 3. Number of COVID-19 tests completed and percent positivity: Ontario, March 29, 2020 to March 05, 2021**

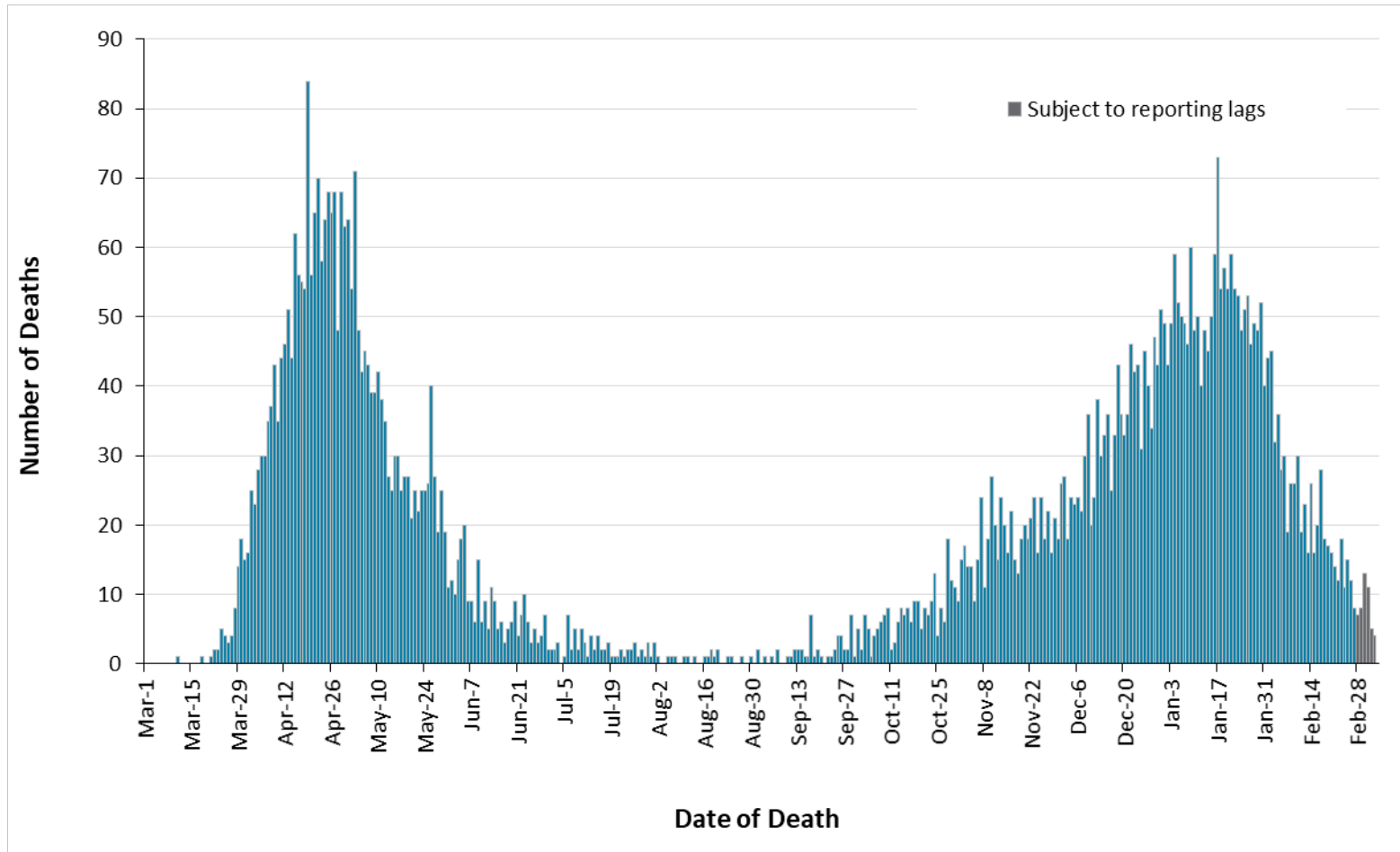


**Note:** The number of tests performed does not reflect the number of specimens or persons tested. More than one test may be performed per specimen or per person. As such, the percentage of tests that were positive does not necessarily translate to the number of specimens or persons testing positive.

**Data Source:** The Provincial COVID-19 Diagnostics Network, data reported by member microbiology laboratories.

# Severity

Figure 4. Confirmed deaths among COVID-19 cases by date of death: Ontario, March 1, 2020 to March 06, 2021



**Note:** Cases without a death date are not included in the figure.

**Data Source:** CCM

COVID-19 in Ontario: January 15, 2020 to March 06, 2021



**Table 4. Confirmed cases of COVID-19 by severity: Ontario**

	Cumulative case count as of March 06, 2021	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	7,067	2.3%
Deaths reported in ages: 19 and under	2	<0.1%
Deaths reported in ages: 20-39	30	<0.1%
Deaths reported in ages: 40-59	287	0.3%
Deaths reported in ages: 60-79	1,948	4.4%
Deaths reported in ages: 80 and over	4,799	23.5%
Ever in ICU	2,781	0.9%
Ever hospitalized	15,530	5.0%

**Note:** Not all cases have an age reported. Data corrections or updates can result in case records being removed and/or updated and may result in totals differing from past publicly reported case counts.

**Data Source:** CCM

## Geography

**Table 5. Summary of recent confirmed cases of COVID-19 by public health unit and region: Ontario**

Public Health Unit Name	Change in cases March 05, 2021	Change in cases March 06, 2021	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	4	5	503	573.7
Thunder Bay District Health Unit	54	53	1,911	1,274.3
<b>TOTAL NORTH WEST</b>	58	58	2,414	1,015.8
Algoma Public Health	0	0	200	174.8
North Bay Parry Sound District Health Unit	2	-1	266	205.0
Porcupine Health Unit	0	0	342	409.9
Public Health Sudbury & Districts	17	34	764	383.9
Timiskaming Health Unit	1	3	103	315.1
<b>TOTAL NORTH EAST</b>	20	36	1,675	299.5
Ottawa Public Health	60	48	15,068	1,428.7
Eastern Ontario Health Unit	12	9	2,748	1,316.7
Hastings Prince Edward Public Health	0	2	423	251.0
Kingston, Frontenac and Lennox & Addington Public Health	2	3	729	342.7
Leeds, Grenville & Lanark District Health Unit	19	8	914	527.8
Renfrew County and District Health Unit	1	6	365	336.0
<b>TOTAL EASTERN</b>	94	76	20,247	1,051.0

Public Health Unit Name	Change in cases March 05, 2021	Change in cases March 06, 2021	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	32	58	12,085	1,696.4
Haliburton, Kawartha, Pine Ridge District Health Unit	8	5	1,051	556.3
Peel Public Health	173	192	62,178	3,871.7
Peterborough Public Health	8	12	709	479.1
Simcoe Muskoka District Health Unit	27	36	6,724	1,121.4
York Region Public Health	82	116	29,332	2,392.9
<b>TOTAL CENTRAL EAST</b>	<b>330</b>	<b>419</b>	<b>112,079</b>	<b>2,501.4</b>
Toronto Public Health	284	329	96,147	3,081.3
<b>TOTAL TORONTO</b>	<b>284</b>	<b>329</b>	<b>96,147</b>	<b>3,081.3</b>
Chatham-Kent Public Health	-2	5	1,361	1,280.1
Grey Bruce Health Unit	3	2	696	409.7
Huron Perth Public Health	7	7	1,377	985.3
Lambton Public Health	27	21	2,224	1,698.2
Middlesex-London Health Unit	8	29	6,293	1,239.9
Southwestern Public Health	5	3	2,568	1,214.2
Windsor-Essex County Health Unit	27	32	13,116	3,087.4
<b>TOTAL SOUTH WEST</b>	<b>75</b>	<b>99</b>	<b>27,635</b>	<b>1,634.5</b>
Brant County Health Unit	8	12	1,874	1,207.5
City of Hamilton Public Health Services	24	89	10,799	1,823.7

Public Health Unit Name	Change in cases March 05, 2021	Change in cases March 06, 2021	Cumulative case count	Cumulative rate per 100,000 population
Haldimand-Norfolk Health Unit	5	12	1,427	1,250.9
Halton Region Public Health	34	39	9,394	1,517.4
Niagara Region Public Health	8	33	8,733	1,848.3
Region of Waterloo Public Health and Emergency Services	33	59	10,975	1,878.1
Wellington-Dufferin-Guelph Public Health	17	38	4,897	1,570.0
<b>TOTAL CENTRAL WEST</b>	<b>129</b>	<b>282</b>	<b>48,099</b>	<b>1,688.1</b>
<b>TOTAL ONTARIO</b>	<b>990</b>	<b>1,299</b>	<b>308,296</b>	<b>2,074.1</b>

**Notes:** Health units with data corrections or updates could result in records being removed from totals resulting in negative counts.

**Data Source:** CCM

## Outbreaks

**Table 6. Summary of recent confirmed COVID-19 outbreaks reported in long-term care homes, retirement homes and hospitals by status: Ontario**

Institution type	Change in outbreaks March 05, 2021	Change in outbreaks March 06, 2021	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	7	3	78	1,303
Retirement homes	5	4	58	770
Hospitals	1	-1	20	418

**Note:** Ongoing outbreaks include all outbreaks that are 'Open' in CCM without a 'Declared Over Date' recorded, or where the outbreak started more than five months ago, even for outbreaks where the Outbreak Status value selected in CCM is 'OPEN'. The start of the outbreak is determined by the onset date of first case, or if missing the outbreak reported date, or else if that is also missing, then the outbreak created date.

**Data Source:** CCM

## Variant COVID-19 Cases

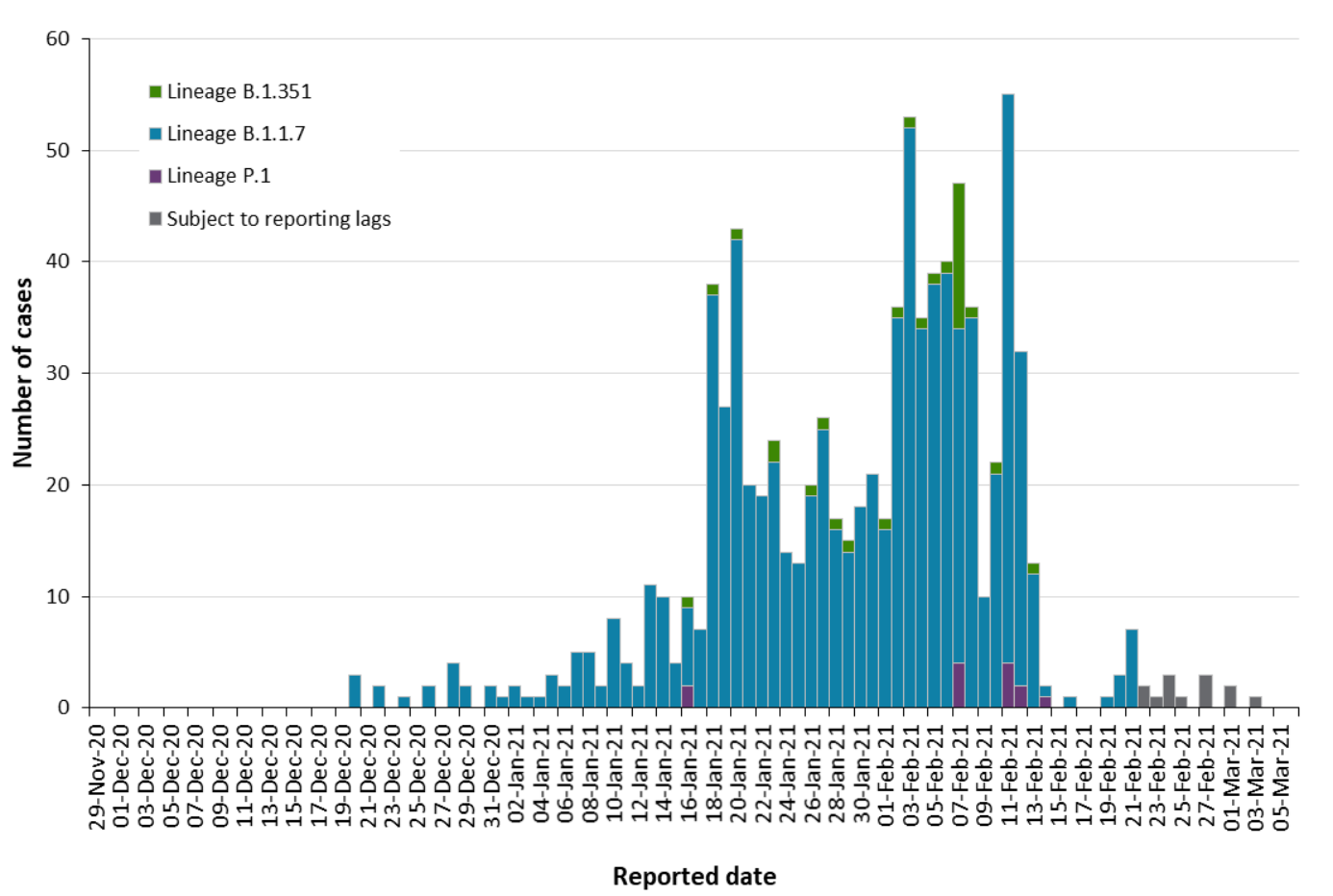
**Table 7. Summary of confirmed variant of concern (VOC) cases: Ontario**

Variant	Change in cases March 05, 2021	Change in cases March 06, 2021	Cumulative case count up to March 06, 2021
Lineage B.1.1.7	27	2	828
Lineage B.1.351	0	0	31
Lineage P.1	5	5	13

**Note:** Interpret the VOC trends with caution due to the varying time required to complete whole genome sequencing following the initial positive test for SARS-CoV-2. Due to the nature of the WGS process, test results may be completed in batches. Data corrections or updates can result in case records being removed and/or updated and may result in totals differing from past publicly reported case counts. For a breakdown of confirmed VOC cases by PHU and interim N501Y mutation screening test volumes and percent positivity please see Appendix A and B.

**Data Source:** CCM

**Figure 5. Confirmed COVID-19 variants of concern (VOC) cases by public health unit reported date: Ontario, November 29, 2020 to March 06, 2021**



**Note:** Reported date is based on the date the case was reported, not the date that the VOC was identified. Additional testing was conducted on January 20, 2021 which led to an increase in the number of cases with variants of concern identified. Further details on screening for variants of concern can be found in the [technical notes](#). Interpret the VOC trends with caution due to the varying time required to complete whole genome sequencing following the initial positive test for SARS-CoV-2.

**Data Source:** CCM

**Table 8. Summary of confirmed variant of concern (VOC) cases by age group and gender: Ontario**

	Lineage B.1.1.7	Lineage B.1.351	Lineage P.1	Cumulative case count as of March 06, 2021
Gender: Male	401	15	7	423
Gender: Female	425	16	6	447
Ages: 19 and under	108	2	0	110
Ages: 20-39	312	14	6	332
Ages: 40-59	220	7	4	231
Ages: 60-79	124	8	3	135
Ages: 80 and over	64	0	0	64

**Note:** Not all cases have a reported age or gender reported. Data corrections or updates can result in case records being removed and or updated from past reports and may result in subset totals (i.e., age group, gender) differing from past publicly reported case counts.

**Data Source:** CCM



**Table 9. Summary of confirmed variant of concern (VOC) cases likely source of acquisition: Ontario**

	Lineage B.1.1.7	Percentage	Lineage B.1.351	Percentage	Lineage P.1	Percentage	Cumulative case count up to March 06, 2021	Cumulative percentage
Travel	49	5.9%	5	16.1%	1	7.7%	55	6.3%
Outbreak-associated or close contact of a confirmed case	614	74.2%	24	77.4%	6	46.2%	644	73.9%
Epidemiological link – type unspecified	0	0.0%	0	0.0%	0	0.0%	0	0.0%
No known epidemiological link	155	18.7%	2	6.5%	6	46.2%	163	18.7%
Information missing or unknown	10	1.2%	0	0.0%	0	0.0%	10	1.1%
<b>Total</b>	<b>828</b>		<b>31</b>		<b>13</b>		<b>872</b>	

**Note:** Information for how cases are grouped within each category is available in the technical notes.

**Data Source:** CCM

# Technical Notes

## Data Sources

- The data for this report were based on information successfully extracted from the Public Health Case and Contact Management Solution (CCM) for all PHUs by PHO as of **March 06, 2021 at 1 p.m.**
- CCM is a dynamic disease reporting system, which allows ongoing updates to data previously entered. As a result, data extracted from CCM represent a snapshot at the time of extraction and may differ from previous or subsequent reports.
- Ontario population projection data for 2020 were sourced from Ministry, IntelliHEALTH Ontario. Data were extracted on November 26, 2019.
- COVID-19 test data were based on information from The Provincial COVID-19 Diagnostics Network, reported by member microbiology laboratories.
- N501Y mutation screening test and percent positivity data were based on the MOH extract of the Ontario Laboratory Information System (OLIS) by Health Analytics & Insight Branch (HAIB), MOH accessed on **March 05, 2021** on the MOH SAS server.

## Data Caveats

- The data only represent cases reported to public health units and recorded in CCM. As a result, all counts will be subject to varying degrees of underreporting due to a variety of factors, such as disease awareness and medical care seeking behaviours, which may depend on severity of illness, clinical practice, changes in laboratory testing, and reporting behaviours.
- Lags in CCM data entry due to weekend staffing may result in lower case counts than would otherwise be recorded.
- Only cases meeting the confirmed case classification as listed in the [MOH Case Definition – Coronavirus Disease \(COVID-19\) document](#) are included in the report counts from CCM. This includes persons with:
  - laboratory confirmation by a validated NAAT assay
  - a validated point-of-care (POC) assay deemed acceptable to provide a final result
  - a validated laboratory-based serological assay SARS-CoV-2
- Cases of confirmed reinfection, as defined in the provincial case definitions, are counted as unique investigations.
- Case classification information may be updated for individuals with a positive result issued from a point-of-care assays.

- The number of tests performed does not reflect the number of specimens or persons tested. More than one test may be performed per specimen or per person. As such, the percentage of tests that were positive does not necessarily translate to the number of specimens or persons testing positive.
- Reported date is the date the case was reported to the public health unit.
- Case episode date is based on an estimate of the best date of disease onset. This date is calculated based on either the date of symptom onset, specimen collection/test date, or the date reported to the public health unit.
- Resolved cases are determined only for COVID-19 cases that have not died. Cases that have died are considered fatal and not resolved. The following cases are classified as resolved:
  - Cases that are reported as 'recovered' in CCM
  - Cases that are not hospitalized and are 14 days past their episode date
  - Cases that are currently hospitalized (no hospital end date entered) and have a status of 'closed' in CCM (indicating public health unit follow-up is complete) and are 14 days past their symptom onset date or specimen collection date
- Hospitalization includes all cases for which a hospital admission date was reported at the time of data extraction. It includes cases that have been discharged from hospital as well as cases that are currently hospitalized. Emergency room visits are not included in the number of reported hospitalizations.
- ICU admission includes all cases for which an ICU admission date was reported at the time of data extraction. It is a subset of the count of hospitalized cases. It includes cases that have been treated or that are currently being treated in an ICU.
- Orientation of case counts by geography is based on the diagnosing health unit (DHU). DHU refers to the case's public health unit of residence at the time of illness onset and not necessarily the location of exposure. Cases for which the DHU was reported as MOH-PHO (to signify a case that is not a resident of Ontario) have been excluded from the analyses.
- Likely source of acquisition is determined by examining the epidemiologic link and epidemiologic link status fields in CCM. If no epidemiologic link is identified in those fields the risk factor fields are examined to determine whether a case travelled, was associated with a confirmed outbreak, was a contact of a case, had no known epidemiological link (sporadic community transmission) or was reported to have an unknown source/no information was reported. Some cases may have no information reported if the case is untraceable, was lost to follow-up or referred to FNIHB. Cases with multiple risk factors were assigned to a single likely acquisition source group which was determined hierarchically in the following order:
  - For cases with an episode date *on or after* April 1, 2020: Outbreak-associated > close contact of a confirmed case > travel > no known epidemiological link > information missing or unknown

- For cases with an episode date *before* April 1, 2020: Travel > outbreak-associated > close contact of a confirmed case > no known epidemiological link > information missing or unknown
- Deaths are determined by using the outcome field in CCM. Any case marked 'Fatal' is included in the deaths data. The CCM field Type of Death is not used to further categorize the data.
  - The date of death is determined using the outcome date field for cases marked as 'Fatal' in the outcome field.
- COVID-19 cases from CCM for which the Classification and/or Disposition was reported as ENTERED IN ERROR, DOES NOT MEET DEFINITION, IGNORE, DUPLICATE, or any variation on these values have been excluded. The provincial case count for COVID-19 may include some duplicate records, if these records were not identified and resolved.
- Ongoing outbreaks include all outbreaks that are 'Open' in CCM without a 'Declared Over Date' recorded, or where the outbreak started more than five months ago, even for outbreaks where the Outbreak Status value selected in CCM is 'OPEN'. The start of the outbreak is determined by the onset date of first case, or if missing the outbreak reported date, or else if that is also missing, then the outbreak created date.
- 'Long-term care home residents' includes cases that reported 'Yes' to the risk factor 'Resident of a long-term care home'; or 'Yes' to the risk factor 'Resident of nursing home or other chronic care facility' and reported to be part of an outbreak assigned as a long-term care home (via the Outbreak number or case comments field); or were reported to be part of an outbreak assigned as a long-term care home (via the outbreak number or case comments field) with an age over 70 years and did not report 'No' to the risk factors 'Resident of long-term care home' or 'Resident of nursing home or other chronic care facility'. 'Long-term care home residents' excludes cases that reported 'Yes' to any of the health care worker occupational risk factors.
- The 'health care workers' variable includes cases that reported 'Yes' to any of the occupation of health care worker, doctor, nurse, dentist, dental hygienist, midwife, other medical technicians, personal support worker, respiratory therapist, first responder.
- 'Health care workers associated with long-term care outbreaks' includes 'health care workers' reported to be part of an outbreak assigned as a long-term care home (via the outbreak number or case comments field). Excludes cases that reported 'Yes' to risk factors 'Resident of long-term care home' or 'Resident of nursing home or other chronic care facility' and 'Yes' to the calculated 'health care workers' variable.
- Percent change is calculated by taking the difference between the current period (i.e., daily count or sum of the daily count over a 7-day period) and previous period (i.e., daily count or sum of the daily count over a 7-day period), divided by the previous period.
- PANGO lineage B.1.1.7: This lineage was first detected in England in September, 2020. Early evidence suggests that the N501Y mutation may increase SARS-CoV-2 transmissibility. The PANGO lineage B.1.1.7 is assigned to genome sequences with at least 5 of the 17 defining B.1.1.7 SNPs.

- PANGO lineage B.1.351 (also known as 501Y.V2): This lineage was first detected October, 2020 in South Africa and has several mutations of concern, including spike (S) gene: N501Y, K417N, and E484K. Early evidence suggests that these mutations may increase SARS-CoV-2 transmissibility and decrease vaccine efficacy. The PANGO lineage B.1.351 will be assigned to genome sequences at least 5 of the 9 defining B.1.351 SNPs.
- PANGO lineage P.1 (also known as 501Y.V3): This lineage was first detected January, 2021 in Brazil and has several mutations of concern, including spike (S) gene N501Y, K417T, and E484K. Early evidence suggests that these mutations may increase SARS-CoV-2 transmissibility and decrease vaccine efficacy. The PANGO lineage P.1 is assigned to genome sequences with more than 10 of the 17 defining P.1 SNPs.
- Public Health Ontario conducts variants of concern (VOC) surveillance on a subset of SARS-CoV-2 positive specimens. Additional SARS-CoV-2 specimens are referred to PHO Laboratory for screening provided they meet the criteria outlined here: <https://www.publichealthontario.ca/en/laboratory-services/test-information-index/covid-19-voc>
- Screening results for the spike (S) gene N501Y mutation presented in this report are extracted from OLIS and may differ from data in CCM, especially related to public health unit attribution.
- Screening results for the spike (S) gene N501Y mutation presented in this report do not include all provincial results because:
  - Some labs are conducting screening but are not submitting directly, or indirectly via PHO to OLIS
  - Some labs are not providing sufficient information alongside specimens transferred to PHO for testing/OLIS entry, so they are rejected from OLIS
  - Some labs may be submitting screening results to OLIS in a manner that does not conform with the VOC nomenclature, and
  - The Ministry of Health does not receive test results for specimens without an associated health card number, or that have a consent block

## Appendix A

**Table A1. Weekly rates of confirmed COVID-19 cases per 100,000 population over recent rolling 7-day periods, by reported date and public health unit: Ontario, February 19 to Mar 03, 2021**

Public Health Unit Name	Feb 19 to Feb 25	Feb 20 to Feb 26	Feb 21 to Feb 27	Feb 22 to Feb 28	Feb 23 to Mar 01	Feb 24 to Mar 02	Feb 25 to Mar 03	% change from Feb 19-Feb 25 to Feb 25-Mar 03
<b>NORTH WEST</b>								
Northwestern Health Unit	54.7	61.6	47.9	52.5	52.5	52.5	58.2	+6.4%
Thunder Bay District Health Unit	198.7	186.7	191.4	200.1	196.7	181.4	202.1	+1.7%
<b>NORTH EAST</b>								
Algoma Public Health	1.7	0.9	3.5	3.5	3.5	3.5	2.6	+52.9%
North Bay Parry Sound District Health Unit	6.2	4.6	2.3	2.3	3.1	4.6	4.6	-25.8%
Porcupine Health Unit	26.4	25.2	16.8	18.0	12.0	14.4	14.4	-45.5%
Public Health Sudbury & Districts	15.1	21.1	27.6	36.2	45.2	50.7	56.8	+276.2%
Timiskaming Health Unit	3.1	6.1	6.1	6.1	6.1	6.1	21.4	+590.3%
<b>EASTERN</b>								
Ottawa Public Health	34.3	34.0	34.5	34.1	36.2	38.0	38.8	+13.1%
Eastern Ontario Health Unit	26.8	27.3	26.4	29.7	32.6	28.7	31.6	+17.9%
Hastings Prince Edward Public Health	10.1	9.5	11.9	15.4	16.0	14.2	13.7	+35.6%
Kingston, Frontenac and Lennox & Addington Public Health	5.2	4.7	4.7	3.3	4.7	7.5	8.0	+53.8%

Public Health Unit Name	Feb 19 to Feb 25	Feb 20 to Feb 26	Feb 21 to Feb 27	Feb 22 to Feb 28	Feb 23 to Mar 01	Feb 24 to Mar 02	Feb 25 to Mar 03	% change from Feb 19-Feb 25 to Feb 25-Mar 03
Leeds, Grenville & Lanark District Health Unit	4.6	5.2	6.4	9.2	11.0	20.8	21.4	+365.2%
Renfrew County and District Health Unit	21.2	23.0	24.9	25.8	28.5	29.5	23.0	+8.5%
<b>CENTRAL EAST</b>								
Durham Region Health Department	40.0	35.8	32.4	31.2	32.3	32.4	34.0	-15.0%
Haliburton, Kawartha, Pine Ridge District Health Unit	17.5	16.4	13.2	12.7	12.7	10.6	13.2	-24.6%
Peel Public Health	89.8	89.5	91.2	90.3	90.3	89.2	86.9	-3.2%
Peterborough Public Health	14.2	15.5	18.9	29.1	30.4	38.5	40.5	+185.2%
Simcoe Muskoka District Health Unit	49.0	45.9	41.9	37.9	37.5	37.0	36.2	-26.1%
York Region Public Health	58.7	55.6	52.4	53.4	54.5	51.8	50.0	-14.8%
<b>TORONTO</b>								
Toronto Public Health	75.5	73.4	71.0	69.6	68.6	67.5	65.3	-13.5%
<b>SOUTH WEST</b>								
Chatham-Kent Public Health	10.3	11.3	9.4	6.6	6.6	7.5	9.4	-8.7%
Grey Bruce Health Unit	5.3	4.7	4.7	4.7	3.5	2.4	1.2	-77.4%
Huron Perth Public Health	21.5	22.9	19.3	22.2	23.6	26.5	24.3	+13.0%
Lambton Public Health	48.1	58.8	58.0	59.6	60.3	73.3	90.1	+87.3%
Middlesex-London Health Unit	15.0	13.8	17.1	16.6	16.0	19.3	20.3	+35.3%

Public Health Unit Name	Feb 19 to Feb 25	Feb 20 to Feb 26	Feb 21 to Feb 27	Feb 22 to Feb 28	Feb 23 to Mar 01	Feb 24 to Mar 02	Feb 25 to Mar 03	% change from Feb 19-Feb 25 to Feb 25-Mar 03
Southwestern Public Health	16.5	33.1	35.0	36.9	36.9	38.8	34.5	+109.1%
Windsor-Essex County Health Unit	51.6	49.7	53.9	53.4	47.1	41.0	37.2	-27.9%
<b>CENTRAL WEST</b>								
Brant County Health Unit	72.2	76.7	94.7	98.6	108.2	101.8	90.2	+24.9%
City of Hamilton Public Health Services	57.8	56.9	56.2	59.3	55.7	56.9	55.1	-4.7%
Haldimand-Norfolk Health Unit	26.3	28.1	30.7	30.7	33.3	35.1	36.8	+39.9%
Halton Region Public Health	32.5	34.1	37.5	37.5	38.3	39.6	42.5	+30.8%
Niagara Region Public Health	24.1	23.7	25.0	25.8	26.2	27.3	30.3	+25.7%
Region of Waterloo Public Health and Emergency Services	63.0	60.9	60.2	60.6	60.4	63.7	57.3	-9.0%
Wellington-Dufferin-Guelph Public Health	38.8	43.3	45.8	44.6	43.9	47.4	47.1	+21.4%
<b>TOTAL ONTARIO</b>	<b>52.3</b>	<b>51.5</b>	<b>51.3</b>	<b>51.3</b>	<b>51.4</b>	<b>51.4</b>	<b>50.8</b>	<b>-2.9%</b>

**Note:** Rates are based on the sum of the daily case counts during the date ranges specified in each column.

**Data Source:** CCM



**Table A2. Summary of confirmed variant of concern (VOC) cases by public health unit: Ontario as of March 06, 2021**

Public Health Unit Name	Cumulative count for Lineage B.1.1.7	Cumulative count for Lineage B.1.351	Cumulative count for Lineage P.1
Algoma Public Health	0	0	0
Brant County Health Unit	0	0	0
Chatham-Kent Public Health	1	0	0
City of Hamilton Public Health Services	3	0	0
Durham Region Health Department	32	0	1
Eastern Ontario Health Unit	0	0	0
Grey Bruce Health Unit	0	0	0
Haldimand-Norfolk Health Unit	1	0	0
Haliburton, Kawartha, Pine Ridge District Health Unit	0	0	0
Halton Region Public Health	19	0	0
Hastings Prince Edward Public Health	0	0	0
Huron Perth Public Health	0	0	0
Kingston, Frontenac and Lennox & Addington Public Health	1	0	0
Lambton Public Health	0	0	0
Leeds, Grenville & Lanark District Health Unit	0	0	0
Middlesex-London Health Unit	4	0	0
Niagara Region Public Health	2	0	0

Public Health Unit Name	Cumulative count for Lineage B.1.1.7	Cumulative count for Lineage B.1.351	Cumulative count for Lineage P.1
North Bay Parry Sound District Health Unit	2	16	0
Northwestern Health Unit	1	0	0
Ottawa Public Health	8	2	0
Peel Public Health	158	10	1
Peterborough Public Health	1	0	0
Porcupine Health Unit	0	0	0
Public Health Sudbury & Districts	3	0	0
Region of Waterloo Public Health and Emergency Services	11	0	0
Renfrew County and District Health Unit	0	0	0
Simcoe Muskoka District Health Unit	214	0	0
Southwestern Public Health	2	0	0
Thunder Bay District Health Unit	0	0	0
Timiskaming Health Unit	0	1	0
Toronto Public Health	210	2	9
Wellington-Dufferin-Guelph Public Health	3	0	0
Windsor-Essex County Health Unit	1	0	0
York Region Public Health	151	0	2
<b>TOTAL ONTARIO</b>	<b>828</b>	<b>31</b>	<b>13</b>

**Note:** Caution should be taken when interpreting VOC data due to the nature of the screening and confirmation process, including delays between specimen collection and whole genome sequencing (WGS). A confirmed VOC case is defined as a COVID-19 case in whom a designated VOC was detected by WGS of their SARS-CoV-2 positive specimen. Data corrections or updates can result in case records being removed and/or updated and may result in totals differing from past publicly reported case counts.

**Data Source:** CCM

## Appendix B

The laboratory detection of a variant of concern is a two-step process. Samples that test positive for SARS-CoV-2 and have a cycle threshold (Ct) value  $\leq 35$  can be tested for the N501Y mutation. If positive for the N501Y mutation these samples then undergo whole genome sequencing (WGS) to confirm the presence of a designated VOC. The table below refers to step one of this process.

**Note:** The number of specimens screened for the spike (S) gene N501Y mutation is defined as the number of unique specimens with a test request code indicating a VOC screening test (TR12952-8). The number of specimens with spike (S) gene N501Y mutation detected is defined as the number of unique specimens where the Observation Value for the VOC screening test result was 'Detected'. The N501Y mutation screening results presented here do not include all screening results in the province. Further details can be found in the [technical notes](#). Testing numbers may be subject to change due to reporting lags. Data presented in Appendix B are from OLIS and may differ from that presented in CCM, especially related to public health unit attribution. These data are interim and will change as data collection and reporting methods are refined in the coming weeks.

**Table B1. Interim cumulative number of specimens screened for N501Y mutation and percent positivity: Ontario as of March 05, 2021**

	Cumulative number of specimens screened for the spike (S) gene N501Y mutation	Cumulative number of specimens with spike (S) gene N501Y mutation detected	Cumulative percent positivity
Specimens screened	26,229	4,395	16.8%

**Data Sources:** OLIS. Note that these are interim data sources to be replaced by CCM once data becomes available.

**Table B2. Interim daily number of specimens screened for N501Y mutation and percent positivity: Ontario as of March 05, 2021**

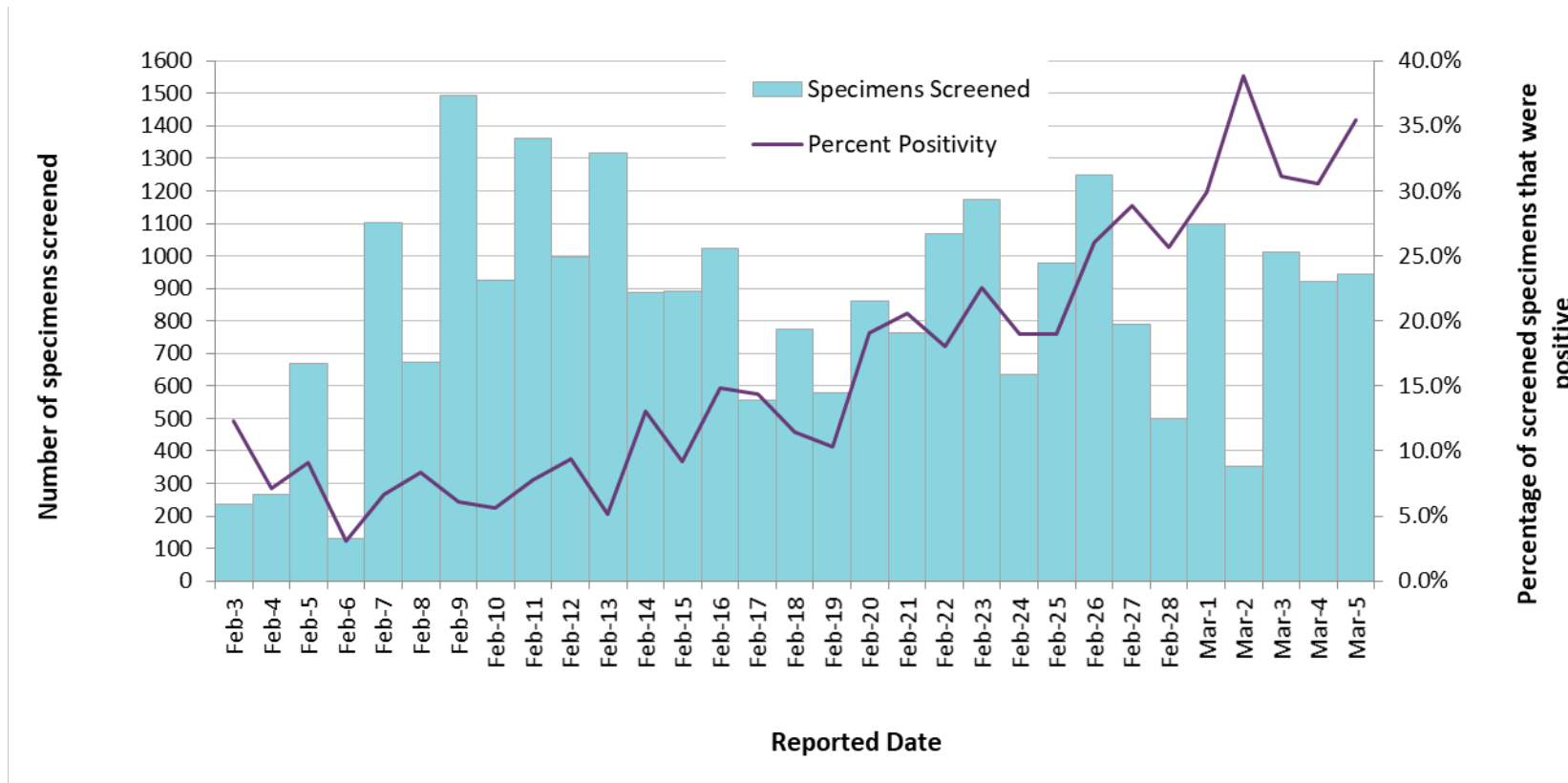
Reported Date <sup>1</sup>	# of specimens screened for the spike (S) gene N501Y mutation	# of specimens with spike (S) gene N501Y mutation detected	Daily percent positivity	Weekly percent positivity over a rolling 7-day period
February 27, 2021	791	228	28.8%	22.2%
February 28, 2021	499	128	25.7%	22.6%
March 01, 2021	1,098	328	29.9%	24.6%

Reported Date <sup>1</sup>	# of specimens screened for the spike (S) gene N501Y mutation	# of specimens with spike (S) gene N501Y mutation detected	Daily percent positivity	Weekly percent positivity over a rolling 7-day period
March 02, 2021	353	137	38.8%	25.9%
March 03, 2021	1,012	315	31.1%	27.6%
March 04, 2021	923	282	30.6%	29.4%
March 05, 2021	942	334	35.5%	31.2%

<sup>1</sup> Reporting date refers to the Observation Release Date

**Data Sources:** OLIS. Note that these are interim data sources to be replaced by CCM once data becomes available.

**Figure 6. Number of specimens screened for the spike (S) gene N501Y mutation and percent positivity: Ontario, February 03, 2021 to March 05, 2021**



**Note:** Reporting date refers to the Observation Release Date

**Data Sources:** OLIS. Note that these are interim data sources to be replaced by CCM once data becomes available.

**Table B3. Interim number of specimens screened for N501Y mutation and percent positivity: Ontario, February 27, 2021 to March 05, 2021**

Public Health Unit Name	# of specimens screened for the spike (S) gene N501Y mutation	# of specimens with spike (S) gene N501Y mutation detected	Weekly percent positivity over a rolling 7-day period	Cumulative percent positivity February 03 to March 05
Algoma Public Health	5	0	0.0%	4.5%
Brant County Health Unit	76	3	3.9%	2.3%
Chatham-Kent Public Health	19	1	5.3%	0.5%
City of Hamilton Public Health Services	338	57	16.9%	8.2%
Durham Region Health Department	241	98	40.7%	20.9%
Eastern Ontario Health Unit	36	6	16.7%	4.5%
Grey Bruce Health Unit	3	1	33.3%	2.7%
Haldimand-Norfolk Health Unit	36	4	11.1%	3.6%
Haliburton, Kawartha, Pine Ridge District Health Unit	22	7	31.8%	10.9%
Halton Region Public Health	84	14	16.7%	8.6%
Hastings Prince Edward Public Health	22	8	36.4%	16.7%
Huron Perth Public Health	28	2	7.1%	1.7%
Kingston, Frontenac and Lennox & Addington Public Health	18	1	5.6%	1.9%
Lambton Public Health	78	7	9.0%	2.9%

Public Health Unit Name	# of specimens screened for the spike (S) gene N501Y mutation	# of specimens with spike (S) gene N501Y mutation detected	Weekly percent positivity over a rolling 7-day period	Cumulative percent positivity February 03 to March 05
Leeds, Grenville & Lanark District Health Unit	26	5	19.2%	9.1%
Middlesex-London Health Unit	81	2	2.5%	2.6%
Niagara Region Public Health	73	19	26.0%	13.9%
North Bay Parry Sound District Health Unit	4	3	75.0%	57.4%
Northwestern Health Unit	22	1	4.5%	1.9%
Ottawa Public Health	132	16	12.1%	12.8%
Peel Public Health	1,058	370	35.0%	18.5%
Peterborough Public Health	23	8	34.8%	13.0%
Porcupine Health Unit	12	0	0.0%	5.3%
Public Health Sudbury & Districts	133	48	36.1%	24.0%
Region of Waterloo Public Health and Emergency Services	272	44	16.2%	12.2%
Renfrew County and District Health Unit	12	0	0.0%	0.0%
Simcoe Muskoka District Health Unit	84	38	45.2%	32.0%
Southwestern Public Health	23	0	0.0%	4.2%
Thunder Bay District Health Unit	226	0	0.0%	0.8%
Timiskaming Health Unit	1	0	0.0%	33.3%



Public Health Unit Name	# of specimens screened for the spike (S) gene N501Y mutation	# of specimens with spike (S) gene N501Y mutation detected	Weekly percent positivity over a rolling 7-day period	Cumulative percent positivity February 03 to March 05
Toronto Public Health	1,778	795	44.7%	20.2%
Wellington-Dufferin-Guelph Public Health	98	34	34.7%	13.7%
Windsor-Essex County Health Unit	135	12	8.9%	2.9%
York Region Public Health	381	140	36.7%	21.3%
<b>TOTAL<sup>1</sup></b>	<b>5,618</b>	<b>1,752</b>	<b>31.2%</b>	<b>16.8%</b>

<sup>1</sup>The N501Y screening results presented here do not include all screening results in the province. Further details can be found in the [technical notes](#).

**Data Sources:** OLIS. Note that these are interim data sources to be replaced by CCM once data becomes available.

## Disclaimer

This document was developed by Public Health Ontario (PHO). PHO provides scientific and technical advice to Ontario's government, public health organizations and health care providers. PHO's work is guided by the current best available evidence at the time of publication.

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## For Further Information

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## Public Health Ontario

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