

DAILY EPIDEMIOLOGICAL SUMMARY

COVID-19 in Ontario: January 15, 2020 to May 6, 2021

This report includes the most current information available from CCM as of May 6, 2021.

Please visit the interactive <u>Ontario COVID-19 Data Tool</u> to explore recent COVID-19 data by public health unit, age group, sex, and trends over time.

A <u>weekly summary report</u> 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 486,223* confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
 - An increase of 3,166* confirmed cases (percent change of -7.5%)
 - An increase of 23 deaths (percent change of -11.5%)
 - An increase of 3,875 resolved cases (percent change of -3.1%)

* Due to a technical issue with the laboratory data feed, today's case count may be underreported for the Central East, Central West and Toronto regions.

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

	Change in cases May 5, 2021	Change in cases May 6, 2021	Percentage change May 6, 2021 compared to May 5, 2021	Cumulative case count as of May 6, 2021
Total number of cases	3,424	3,166*	-7.5%	486,223*
Number of deaths	26	23	-11.5%	8,236
Number resolved	3,997	3,875	-3.1%	444,342

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

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.

* Due to a technical issue with the laboratory data feed, today's case count may be underreported for the Central East, Central West and Toronto regions.

Data Source: CCM

	Change in cases May 5, 2021	Change in cases May 6, 2021	Cumulative case count as of May 6, 2021
Gender: Male	1,713	1,592	241,637
Gender: Female	1,668	1,538	240,875
Ages: 19 and under	617	497	75,430
Ages: 20-39	1,424	1,357	180,177
Ages: 40-59	954	893	140,296
Ages: 60-79	380	349	66,323
Ages: 80 and over	49	67	23,885

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

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 agegroup, August 30, 2020 to May 6, 2021: Ontario

	Change in cases May 5, 2021	Change in cases May 6, 2021	Cumulative case count from August 30, 2020 to May 6, 2021
Ages: 4 to 8	116	113	13,759
Ages: 9 to 13	128	102	17,636
Ages: 14 to 17	141	121	17,722

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

Long-term care home cases	Change in cases May 5, 2021	Change in cases May 6, 2021	Cumulative case count as of May 6, 2021
Residents	3	9	15,191
Health care workers	8	7	6,999
Deaths among residents	0	2	3,931
Deaths among health care workers	0	0	10

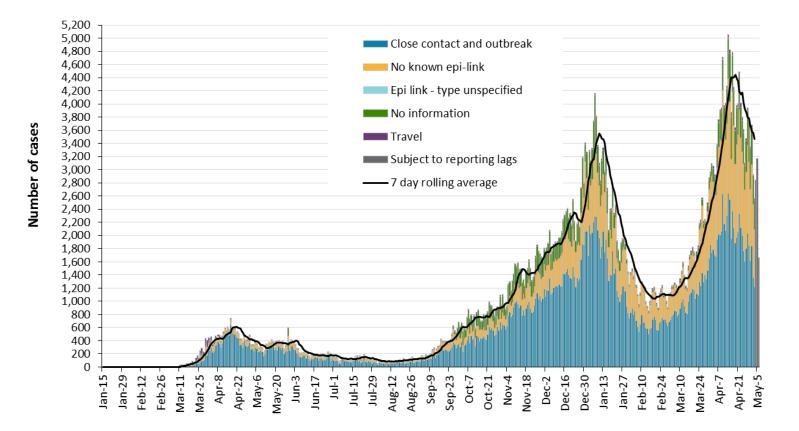
Table 3. Summary of recent confirmed cases of COVID-19 in long-term care homes: Ontario

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

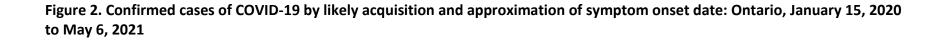
Data Source: CCM

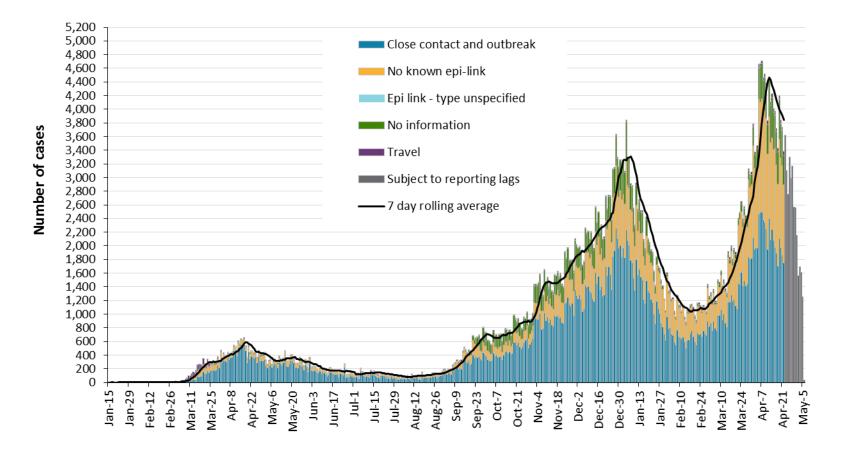
Time

Figure 1. Confirmed cases of COVID-19 by likely acquisition and public health unit reported date: Ontario, January 15, 2020 to May 6, 2021



Reported date





Episode date

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 <u>technical notes</u>. Data Source: CCM

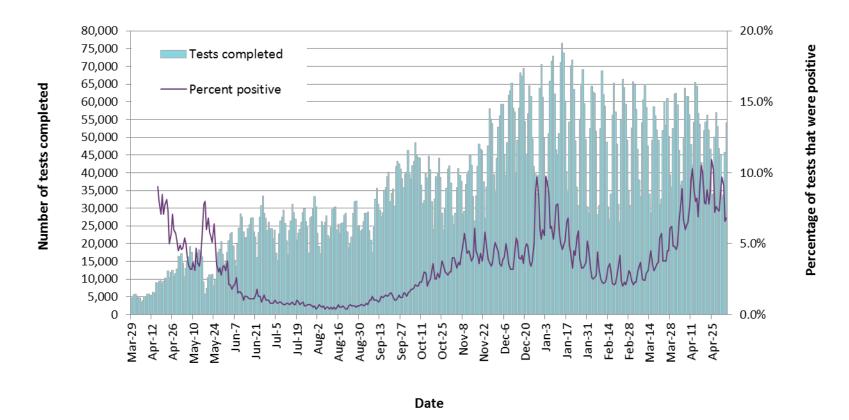


Figure 3. Number of COVID-19 tests completed and percent positivity: Ontario, March 29, 2020 to May 5, 2021

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

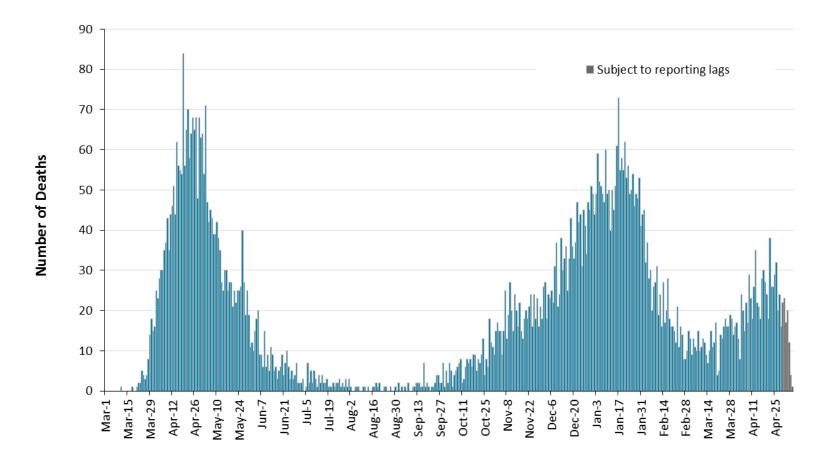


Figure 4. Confirmed deaths among COVID-19 cases by date of death: Ontario, March 1, 2020 to May 6, 2021

Date of Death

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

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

	Cumulative case count as of May 6, 2021	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	8,236	1.7%
Deaths reported in ages: 19 and under	4	< 0.1%
Deaths reported in ages: 20-39	55	< 0.1%
Deaths reported in ages: 40-59	405	0.3%
Deaths reported in ages: 60-79	2,470	3.7%
Deaths reported in ages: 80 and over	5,301	22.2%
Ever in ICU	4,321	0.9%
Ever hospitalized	23,571	4.8%

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 May 5, 2021	Change in cases May 6, 2021	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	15	7	979	1,116.6
Thunder Bay District Health Unit	9	1	3,130	2,087.2
TOTAL NORTH WEST	24	8	4,109	1,729.1
Algoma Public Health	3	5	347	303.2
North Bay Parry Sound District Health Unit	8	5	374	288.2
Porcupine Health Unit	12	14	675	809.0
Public Health Sudbury & Districts	11	11	1,974	991.8
Timiskaming Health Unit	4	-1	192	587.4
TOTAL NORTH EAST	38	34	3,562	636.8
Ottawa Public Health	108	106	25,078	2,377.8
Eastern Ontario Health Unit	23	15	4,370	2,093.8
Hastings Prince Edward Public Health	11	11	984	584.0
Kingston, Frontenac and Lennox & Addington Public Health	20	18	1,377	647.3
Leeds, Grenville & Lanark District Health Unit	10	1	1,659	958.0
Renfrew County and District Health Unit	7	5	620	570.7
TOTAL EASTERN	179	156	34,088	1,769.5

Public Health Unit Name	Change in cases May 5, 2021	Change in cases May 6, 2021	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	175	205	21,928	3,078.0
Haliburton, Kawartha, Pine Ridge District Health Unit	10	19	1,699	899.2
Peel Public Health	900	817	97,103	6,046.4
Peterborough Public Health	10	6	1,270	858.2
Simcoe Muskoka District Health Unit	95	64	11,001	1,834.8
York Region Public Health	291	300	47,963	3,912.8
TOTAL CENTRAL EAST	1,481	1,411	180,964	4,038.8
Toronto Public Health	958	876	149,688	4,797.1
TOTAL TORONTO	958	876	149,688	4,797.1
Chatham-Kent Public Health	5	3	1,797	1,690.2
Grey Bruce Health Unit	8	4	1,197	704.6
Huron Perth Public Health	10	9	1,638	1,172.0
Lambton Public Health	8	16	3,306	2,524.4
Middlesex-London Health Unit	89	83	10,968	2,161.1
Southwestern Public Health	15	12	3,500	1,654.9
Windsor-Essex County Health Unit	42	35	15,707	3,697.2
TOTAL SOUTH WEST	177	162	38,113	2,254.2
Brant County Health Unit	23	41	3,326	2,143.0
City of Hamilton Public Health Services	155	148	18,241	3,080.4
Haldimand-Norfolk Health Unit	29	13	2,383	2,088.9

COVID-19 in Ontario: January 15, 2020 to May 6, 2021

Public Health Unit Name	Change in cases May 5, 2021	Change in cases May 6, 2021	Cumulative case count	Cumulative rate per 100,000 population
Halton Region Public Health	129	139	15,387	2,485.4
Niagara Region Public Health	127	65	14,444	3,057.0
Region of Waterloo Public Health and Emergency Services	63	48	14,580	2,495.0
Wellington-Dufferin-Guelph Public Health	41	65	7,338	2,352.6
TOTAL CENTRAL WEST	567	519	75,699	2,656.8
TOTAL ONTARIO	3,424	3,166	486,223	3,271.1

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

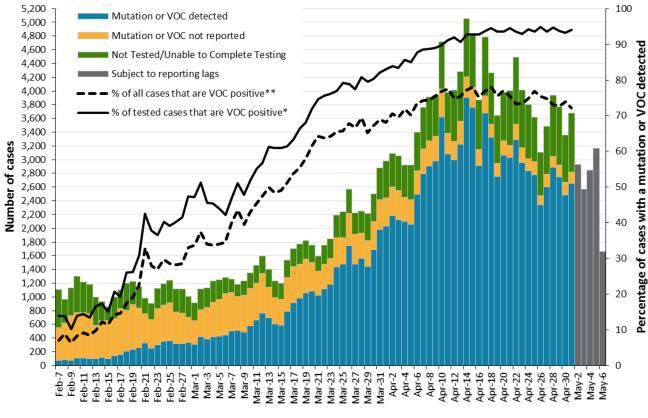
Institution type	Change in outbreaks May 5, 2021	Change in outbreaks May 6, 2021	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	1	1	50	1,447
Retirement homes	0	1	14	849
Hospitals	5	1	39	545

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

The laboratory detection of a variant of concern (VOC) is a multi-step process. Samples that test positive for SARS-CoV-2 and have a cycle threshold (Ct) value ≤ 35 can be tested for mutations common to variants of concern. If positive for the mutation of interest these samples may then undergo genomic analyses to identify the VOC. VOC lineages may still be confirmed using genomic analysis despite specific S gene mutation(s) being documented as 'unable to complete' due to poor sequence quality at the genome position.

Figure 5. Number of confirmed COVID-19 cases and percent positive for mutations or VOCs: Ontario, February 7, 2021 to May 6, 2021



Reported date

Note: Data used to calculate the number of cases tested for mutations common to VOCs or lineages using genomic analyses are obtained using information from the Laboratory object in CCM in addition to the data from the Investigation Subtype field. Therefore, comparisons to counts using only information from the Investigation Subtype field may not align. The percent of cases due to a VOC may be higher than described in this report. *The denominator includes only confirmed COVID-19 cases that were able to be tested for VOCs (e.g. those identified as 'Detected' or 'Not Detected'.

The denominator includes all confirmed COVID-19 cases, including those that were unable to be tested for VOCs (e.g. those identified as 'Detected', 'Not Detected' and 'Not Tested/Unable to Complete Testing'. **Data Source: CCM

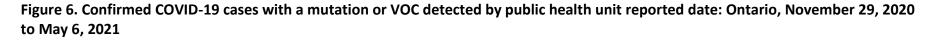
	Change in cases May 5, 2021	Change in cases May 6, 2021	Cumulative case count up to May 6, 2021
Variant of Concern			
Lineage B.1.1.7*	2,839	3,496	86,846
Lineage B.1.351	9	41	367
Lineage P.1	54	14	1,069
Mutations			
N501Y and E484K	98	117	6,339
N501Y (E484K unknown)**	-35	-447	22,036
E484K (N501Y negative)	147	108	3,274
E484K (N501Y unknown)	-5	-5	472

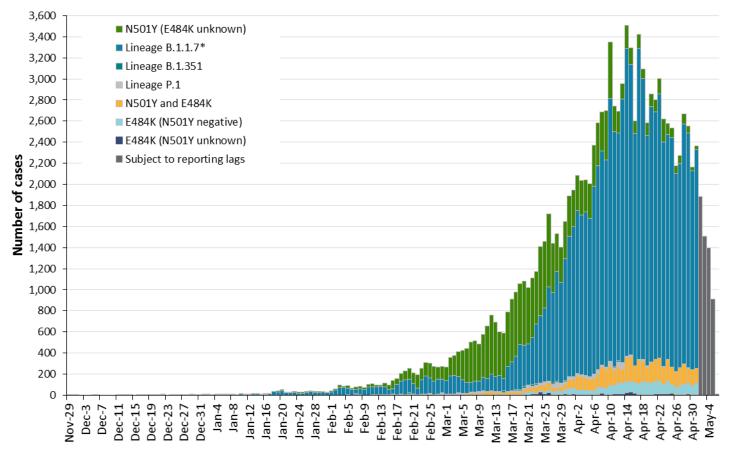
Table 7. Summary of confirmed COVID-19 cases with a mutation or VOC detected: Ontario

Note: Interpret the VOC and mutation trends with caution due to the varying time required to complete VOC testing and/or genomic analysis following the initial positive test for SARS-CoV-2. Due to the nature of the genomic analysis, 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. Data for calculating the change in cases and the cumulative case counts uses data from the Investigation Subtype field only. Changes to the VOC testing algorithm may impact counts and trends. Further details can be found in the <u>data</u> <u>caveats</u> section.

*Includes all confirmed COVID-19 cases where lineage B.1.1.7 was identified by genomic analysis and those presumed to be B.1.1.7 based on positive N501Y and negative E484K mutation in the Investigation Subtype field **The category 'N501Y (E484K unknown)' mainly consists of results from before the introduction of the E484K test. Counts will shift from this category into a VOC lineage category as E484K tests or genomic analysis are completed.

Data Source: CCM





Reported date

Note: Reported date is based on the date the case was reported, not the date that the VOC or mutation was identified. Further details on testing for variants of concern can be found in the <u>technical notes</u>. Interpret the VOC and mutation trends with caution due to the varying time required to complete testing and/or genomic analysis following the initial positive test for SARS-CoV-2. Data for calculating the change in cases and the cumulative case count uses data from the Investigation

Subtype field only. Data for cases with a B.1.1.7, B.1.351, and P.1 lineage detected or any of the mutations listed above are determined using the Investigation Subtype field only. Changes to the VOC testing algorithm may impact counts and trends. Further details can be found in the <u>data caveats</u> section. *Includes all confirmed COVID-19 cases where lineage B.1.1.7 was identified by genomic analysis and those presumed to be B.1.1.7 based on positive N501Y and negative E484K mutation. Starting March 22, 2021, specimens tested for the both the N501Y and E484K mutation, and if found to be positive for the N501Y mutation only, are not forwarded for further genomic analysis and presumed to be B.1.1.7. **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 **May 6, 2021 at 1 p.m**. for cases reported in 2021 and as of **May 3, 2021 at 9 a.m.** for cases reported in 2020.
- 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.

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 <u>MOH Case Definition</u> <u>Coronavirus Disease (COVID-19) document are included in the report counts from CCM</u>
- 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 testing and genomic analyses for SARS-CoV-2 positive specimens using the criteria outlined here: <u>https://www.publichealthontario.ca/en/laboratory-</u> services/test-information-index/covid-19-voc
- Changes to the VOC testing algorithm may occur over time and trends should be interpreted with caution. Since February 3, 2021 all PCR positive SARS-Co-V-2 specimens with CT values ≤ 35 are tested for a N501Y mutation. Starting March 22, 2021, these specimens are tested for the E484K mutation as well. Specimens that are positive for the N501Y mutation only are not being

forwarded for further genomic analysis. Specimens that are E484K positive (with or without N501Y) are forwarded for genomic analysis.

- The laboratory detection of a variant of concern is a multi-step process. Samples that test
 positive for SARS-CoV-2 and have a cycle threshold (Ct) value ≤ 35 can be tested for mutations
 common to variants of concern. If positive for the mutation of interest these samples may then
 undergo genomic analyses to identify the VOC. VOC lineages may still be confirmed using
 genomic analysis despite specific S gene mutation(s) being documented as 'unable to complete'
 due to poor sequence quality at the genome position.
- VOC testing data are analyzed for cases with a reported date on or after February 07, 2021. VOC testing data are based on CCM information reported within the laboratory object for select Logical Observation Identifiers Names and Codes (LOINC) and supplemented with information from the Investigation Subtype field. A confirmed Case Investigation is assigned a VOC test value (e.g., VOC test detected, VOC test not detected) based on the following hierarchy:
 - If multiple laboratory results are identified, a VOC test value is assigned based on the following hierarchy: Detected > Not Detected > Unable to complete
 - If a laboratory result is 'Not Detected' or 'Unable to complete', but data on the Investigation Subtype field is listed as a lineage or mutation common to a VOC, then the VOC test value is set to 'Detected'
- If a VOC is identified through genomic analysis cases initially classified as a mutation may be updated and moved to the appropriate lineage (B.1.1.7, B.1.351 and P.1)
- LOINCs are a set of internationally used result description codes. In the absence of a standard LOINC, Ontario Health can create local result codes, which are identified with an 'XON' prefix.
 LOINCs incorporate details of the result value (e.g. test method, target detected - such as IgG, DNA, isolate etc.) and are unique to each result.
- VOC testing data in this report are assigned on a per case basis. Multiple laboratory results may be associated to a single case investigation, but for analysis purposes are only counted once.
 - The percent of cases that test VOC positive is calculated by taking the number of VOC test positive, divided by the total number of confirmed COVID-19 cases for a given reported date.
- The VOC percent positive may be higher than described in this report. While all confirmed COVID-19 cases are included in the denominator, not all cases were able to be tested for VOCs. As testing algorithms change, the VOC percent positivity may not be reflective of the exact number of COVID-19 cases due to VOCs
- Only CCM case investigations with a CONFIRMED classification have their laboratory records with VOC testing information included in the percent positivity calculations

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, April 21 to May 3, 2021

Public Health Unit Name	Apr 21 to Apr 27	Apr 22 to Apr 28	Apr 23 to Apr 29	Apr 24 to Apr 30	Apr 25 to May 1	Apr 26 to May 2	Apr 27 to May 3	% change from Apr 21 - Apr 27 to Apr 27 - May 3
NORTH WEST								
Northwestern Health Unit	82.1	79.8	74.1	76.4	76.4	83.3	77.6	-5.5%
Thunder Bay District Health Unit	35.3	37.3	26.0	22.7	22.7	24.7	25.3	-28.3%
NORTH EAST								
Algoma Public Health	15.7	17.5	15.7	17.5	16.6	14.9	16.6	+5.7%
North Bay Parry Sound District Health Unit	11.6	11.6	10.8	11.6	11.6	10.8	11.6	0.0%
Porcupine Health Unit	85.1	91.1	87.5	82.7	93.5	87.5	73.1	-14.1%
Public Health Sudbury & Districts	26.1	26.1	31.7	32.2	32.7	33.2	30.6	+17.2%
Timiskaming Health Unit	73.4	73.4	76.5	67.3	61.2	52.0	61.2	-16.6%
EASTERN								
Ottawa Public Health	129.0	127.2	119.7	118.7	110.0	109.1	102.6	-20.5%
Eastern Ontario Health Unit	76.2	69.5	70.4	61.3	60.8	63.2	65.2	-14.4%
Hastings Prince Edward Public Health	38.0	45.7	46.9	46.9	40.4	38.0	39.2	+3.2%
Kingston, Frontenac and Lennox & Addington Public Health	35.7	36.7	36.2	37.6	31.5	36.7	44.2	+23.8%

Public Health Unit Name	Apr 21 to Apr 27	Apr 22 to Apr 28	Apr 23 to Apr 29	Apr 24 to Apr 30	Apr 25 to May 1	Apr 26 to May 2	Apr 27 to May 3	% change from Apr 21 - Apr 27 to Apr 27 - May 3
Leeds, Grenville & Lanark District Health Unit	39.3	41.0	38.1	32.9	30.0	34.1	30.6	-22.1%
Renfrew County and District Health Unit	42.3	42.3	43.3	41.4	39.6	28.5	31.3	-26.0%
CENTRAL EAST								
Durham Region Health Department	213.2	216.0	202.4	204.0	211.5	207.3	208.7	-2.1%
Haliburton, Kawartha, Pine Ridge District Health Unit	46.6	48.2	43.4	41.3	36.5	32.3	29.6	-36.5%
Peel Public Health	377.7	374.0	364.2	355.1	363.7	346.3	334.4	-11.5%
Peterborough Public Health	45.3	47.3	47.3	46.0	41.2	44.6	41.9	-7.5%
Simcoe Muskoka District Health Unit	100.7	99.7	96.6	93.6	94.7	95.2	93.4	-7.2%
York Region Public Health	223.8	222.2	204.9	198.6	190.6	186.7	174.3	-22.1%
TORONTO								
Toronto Public Health	245.0	246.9	250.2	242.1	242.1	235.8	233.3	-4.8%
SOUTH WEST								
Chatham-Kent Public Health	33.9	29.2	27.3	28.2	27.3	24.5	25.4	-25.1%
Grey Bruce Health Unit	35.9	35.9	31.2	30.0	28.3	28.3	27.7	-22.8%
Huron Perth Public Health	22.9	25.8	22.9	22.2	21.5	20.0	20.8	-9.2%
Lambton Public Health	57.3	53.4	49.6	51.2	53.4	53.4	53.4	-6.8%
Middlesex-London Health Unit	134.6	139.1	128.9	135.8	134.2	125.1	124.5	-7.5%

Public Health Unit Name	Apr 21 to Apr 27	Apr 22 to Apr 28	Apr 23 to Apr 29	Apr 24 to Apr 30	Apr 25 to May 1	Apr 26 to May 2	Apr 27 to May 3	% change from Apr 21 - Apr 27 to Apr 27 - May 3
Southwestern Public Health	62.4	60.0	61.0	56.3	53.0	52.5	48.7	-22.0%
Windsor-Essex County Health Unit	86.6	88.0	82.6	83.1	77.2	73.7	73.7	-14.9%
CENTRAL WEST								
Brant County Health Unit	143.7	128.9	121.1	129.5	112.1	112.8	113.4	-21.1%
City of Hamilton Public Health Services	167.4	171.1	173.9	187.8	180.9	181.2	184.1	+10.0%
Haldimand-Norfolk Health Unit	142.0	143.8	142.0	129.7	119.2	123.6	114.0	-19.7%
Halton Region Public Health	147.6	149.3	149.9	146.3	146.3	143.6	142.1	-3.7%
Niagara Region Public Health	228.6	216.3	198.9	167.6	182.9	166.4	163.2	-28.6%
Region of Waterloo Public Health and Emergency Services	98.4	96.0	90.9	79.1	76.8	80.3	80.6	-18.1%
Wellington-Dufferin- Guelph Public Health	119.3	115.1	103.6	104.8	95.9	97.8	91.4	-23.4%
TOTAL ONTARIO	178.4	177.9	173.1	168.7	167.8	163.2	159.6	-10.5%

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 COVID-19 cases with a mutation or VOC by public health unit: Ontario as of May 6, 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	Cumulative count for mutations**
Algoma Public Health	45	0	0	18
Brant County Health Unit	407	0	9	399
Chatham-Kent Public Health	60	4	1	114
City of Hamilton Public Health Services	3,572	2	3	1,057
Durham Region Health Department	7,027	15	55	1,043
Eastern Ontario Health Unit	543	9	0	309
Grey Bruce Health Unit	228	0	2	44
Haldimand-Norfolk Health Unit	282	0	3	269
Haliburton, Kawartha, Pine Ridge District Health Unit	211	0	4	202
Halton Region Public Health	3,740	12	34	552
Hastings Prince Edward Public Health	14	0	1	327
Huron Perth Public Health	68	0	0	61
Kingston, Frontenac and Lennox & Addington Public Health	277	0	14	136
Lambton Public Health	298	0	1	80
Leeds, Grenville & Lanark District Health Unit	238	5	0	43
Middlesex-London Health Unit	1,656	0	8	276
Niagara Region Public Health	2,516	0	2	909

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	Cumulative count for mutations**
North Bay Parry Sound District Health Unit	66	27	0	13
Northwestern Health Unit	28	0	1	27
Ottawa Public Health	4,260	34	0	765
Peel Public Health	19,652	44	249	5,221
Peterborough Public Health	312	0	0	166
Porcupine Health Unit	98	2	0	9
Public Health Sudbury & Districts	396	0	0	433
Region of Waterloo Public Health and Emergency Services	1,953	2	7	281
Renfrew County and District Health Unit	128	1	0	23
Simcoe Muskoka District Health Unit	2,664	13	52	858
Southwestern Public Health	460	0	2	74
Thunder Bay District Health Unit	10	0	0	40
Timiskaming Health Unit	66	1	0	0
Toronto Public Health	21,638	175	493	15,427
Wellington-Dufferin-Guelph Public Health	1,525	0	8	185
Windsor-Essex County Health Unit	999	3	4	90
York Region Public Health	11,409	18	116	2,670
TOTAL ONTARIO	86,846	367	1,069	32,121

Note: Interpret the VOC and mutation trends with caution due to the varying time required to complete VOC testing and/or genomic analysis following the initial positive test for SARS-CoV-2. Due to the nature of the genomic analysis, 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. Data for calculating the change in cases and the cumulative case count uses data from the Investigation Subtype field only. Changes to the VOC testing algorithm may impact counts and trends. Further details can be found in the <u>data</u> <u>caveats</u> section.

*Includes all confirmed COVID-19 cases where lineage B.1.1.7 was identified by genomic analysis and those presumed to be B.1.1.7 based on positive N501Y and negative E484K mutation.

**Mutations includes all confirmed COVID-19 cases with the following mutations detected, reported from the Investigation Subtype field: N501Y and E484K, N501Y (E484K unknown), E484K (N501Y negative), E484K (N501Y unknown).

If a VOC is identified through genomic analysis, the change in cases and/or cumulative case counts for mutations will fluctuate as the case is moved to one of the listed lineages.

Data Source: CCM

Table A3. Weekly percent positivity for cases tested for mutations or VOCs over recent rolling7-day periods, by reported date and public health unit: Ontario, April 19 to May 1, 2021

Public Health Unit Name	April 19 to April 25	April 20 to April 26	April 21 to April 27	April 22 to April 28	April 23 to April 29	April 24 to April 30	April 25 to May 1
Algoma Public Health	65.2	70.0	77.8	65.0	66.7	70.0	68.4
Brant County Health Unit	72.0	73.4	70.9	74.0	75.0	78.6	78.7
Chatham-Kent Public Health	82.8	84.4	86.1	87.1	82.8	76.7	75.9
City of Hamilton Public Health Services	77.5	76.7	76.9	77.0	74.5	73.0	70.8
Durham Region Health Department	81.8	81.8	83.3	83.7	84.0	84.7	86.3
Eastern Ontario Health Unit	43.1	44.3	35.2	37.2	40.1	35.2	40.2
Grey Bruce Health Unit	53.2	54.1	62.3	63.9	69.8	76.5	72.9
Haldimand-Norfolk Health Unit	72.0	72.8	72.2	70.1	71.6	68.9	64.7
Haliburton, Kawartha, Pine Ridge District Health Unit	70.5	67.1	69.3	72.5	72.0	73.1	68.1
Halton Region Public Health	76.8	79.2	77.9	77.9	76.5	75.7	75.1
Hastings Prince Edward Public Health	81.3	82.8	79.7	79.2	77.2	78.5	75.0
Huron Perth Public Health	87.1	86.7	78.1	80.6	81.3	77.4	80.0
Kingston, Frontenac and Lennox & Addington Public Health	75.8	73.2	71.1	70.5	72.7	73.8	79.1
Lambton Public Health	76.4	76.7	64.0	58.6	56.9	55.2	55.7
Leeds, Grenville & Lanark District Health Unit	50.8	52.2	44.1	39.4	33.3	35.1	34.6

Public Health Unit Name	April 19 to April 25	April 20 to April 26	April 21 to April 27	April 22 to April 28	April 23 to April 29	April 24 to April 30	April 25 to May 1
Middlesex-London Health Unit	72.5	73.3	74.5	73.2	73.1	71.8	72.0
Niagara Region Public Health	71.1	69.4	69.2	61.8	60.0	57.3	53.2
North Bay Parry Sound District Health Unit	33.3	42.9	40.0	20.0	21.4	26.7	40.0
Northwestern Health Unit	4.7	4.5	8.3	10.0	12.3	13.4	16.4
Ottawa Public Health	45.7	43.3	42.0	40.9	40.8	41.1	40.3
Peel Public Health	72.4	72.5	72.4	71.3	71.8	72.4	71.4
Peterborough Public Health	70.8	75.0	76.1	75.7	81.4	76.5	78.7
Porcupine Health Unit	76.8	79.7	81.7	81.6	79.5	78.3	79.5
Public Health Sudbury & Districts	88.9	85.7	86.5	82.7	87.3	87.5	87.7
Region of Waterloo Public Health and Emergency Services	70.4	67.1	67.1	67.4	67.2	72.5	70.2
Renfrew County and District Health Unit	63.4	67.4	82.6	84.8	83.0	82.2	83.7
Simcoe Muskoka District Health Unit	81.4	80.7	81.3	80.6	78.8	79.7	77.8
Southwestern Public Health	74.6	75.0	75.0	74.8	76.7	76.5	74.1
Thunder Bay District Health Unit	24.2	30.9	30.2	35.7	43.6	41.2	50.0
Timiskaming Health Unit	80.0	88.0	83.3	83.3	84.0	81.8	80.0
Toronto Public Health	81.4	81.4	80.8	81.6	81.4	81.0	81.0

Public Health Unit Name	April 19 to April 25	April 20 to April 26	April 21 to April 27	April 22 to April 28	April 23 to April 29	April 24 to April 30	April 25 to May 1
Wellington-Dufferin- Guelph Public Health	76.9	77.9	76.1	71.3	73.1	73.4	71.9
Windsor-Essex County Health Unit	70.1	73.4	75.5	72.2	71.8	72.2	71.0
York Region Public Health	82.1	81.9	81.7	82.2	81.1	81.6	82.4
TOTAL ONTARIO	75.2	75.1	74.8	74.5	74.4	74.5	74.1

Note: Data for calculating the number of cases tested for mutations common to VOCs or lineages using genomic analyses are obtained using information from the Laboratory object in CCM in addition to the data from the Investigation subtype field. Therefore, comparisons to counts using only information from the Investigation Subtype field may not align. The percent of cases due to a VOC may be higher than described in this report. While all confirmed COVID-19 cases are included in the denominator, not all cases were able to be tested for VOCs. Percent positivity is based on the sum of the daily cases that test positive divided by the number of cases reported during the date ranges specified in each column. **Data Source**: CCM.

Citation

Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic summary: COVID-19 in Ontario – January 15, 2020 to May 6, 2021. Toronto, ON: Queen's Printer for Ontario; 2021.

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. The application and use of this document is the responsibility of the user. PHO assumes no liability resulting from any such application or use. This document may be reproduced without permission for non-commercial purposes only and provided that appropriate credit is given to PHO. No changes and/or modifications may be made to this document without express written permission from PHO.

For Further Information

For more information, <u>cd@oahpp.ca.</u>

Public Health Ontario

Public Health Ontario is an agency of the Government of Ontario dedicated to protecting and promoting the health of all Ontarians and reducing inequities in health. Public Health Ontario links public health practitioners, front-line health workers and researchers to the best scientific intelligence and knowledge from around the world.

For more information about PHO, visit publichealthontario.ca.



©Queen's Printer for Ontario, 2021