

DAILY EPIDEMIOLOGICAL SUMMARY

COVID-19 in Ontario: January 15, 2020 to November 12, 2021

This report includes the most current information available from CCM as of **November 12, 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 606,507 confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
 - An increase of 661 confirmed cases (percent change of +10.5%)
 - An increase of 6* deaths (percent change of +50.0%)
 - An increase of 469 resolved cases (percent change of +1.5%)

* This number only includes deaths that have occurred in the last month.

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, sex) 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 November 11, 2021	Change in cases November 12, 2021	Percentage change November 12, 2021 compared to November 11, 2021	Cumulative case count as of November 12, 2021
Total number of cases	598	661	+10.5%	606,507
Number of deaths	4	6	+50.0%	9,927
Number resolved	462	469	+1.5%	591,994

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. The number of deaths presented in the change in cases column for each day only includes deaths that occurred in the last 30 days.

Data Source: CCM

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

	Change in cases November 11, 2021	Change in cases November 12, 2021	Cumulative case count as of November 12, 2021
Sex: Male	289	348	303,220
Sex: Female	285	313	301,129
Ages: 0-4	16	30	17,464
Ages: 5-11	94	94	32,816
Ages: 12-19	40	65	54,067
Ages: 20-39	194	188	227,690
Ages: 40-59	167	174	169,595
Ages: 60-79	70	96	78,438
Ages: 80 and over	17	14	26,330

Note: Not all cases have a reported age or sex 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, sex) differing from past publicly reported case counts.

Data Source: CCM

Table 2. Summary of recent confirmed cases of COVID-19 in long-term care homes: Ontario

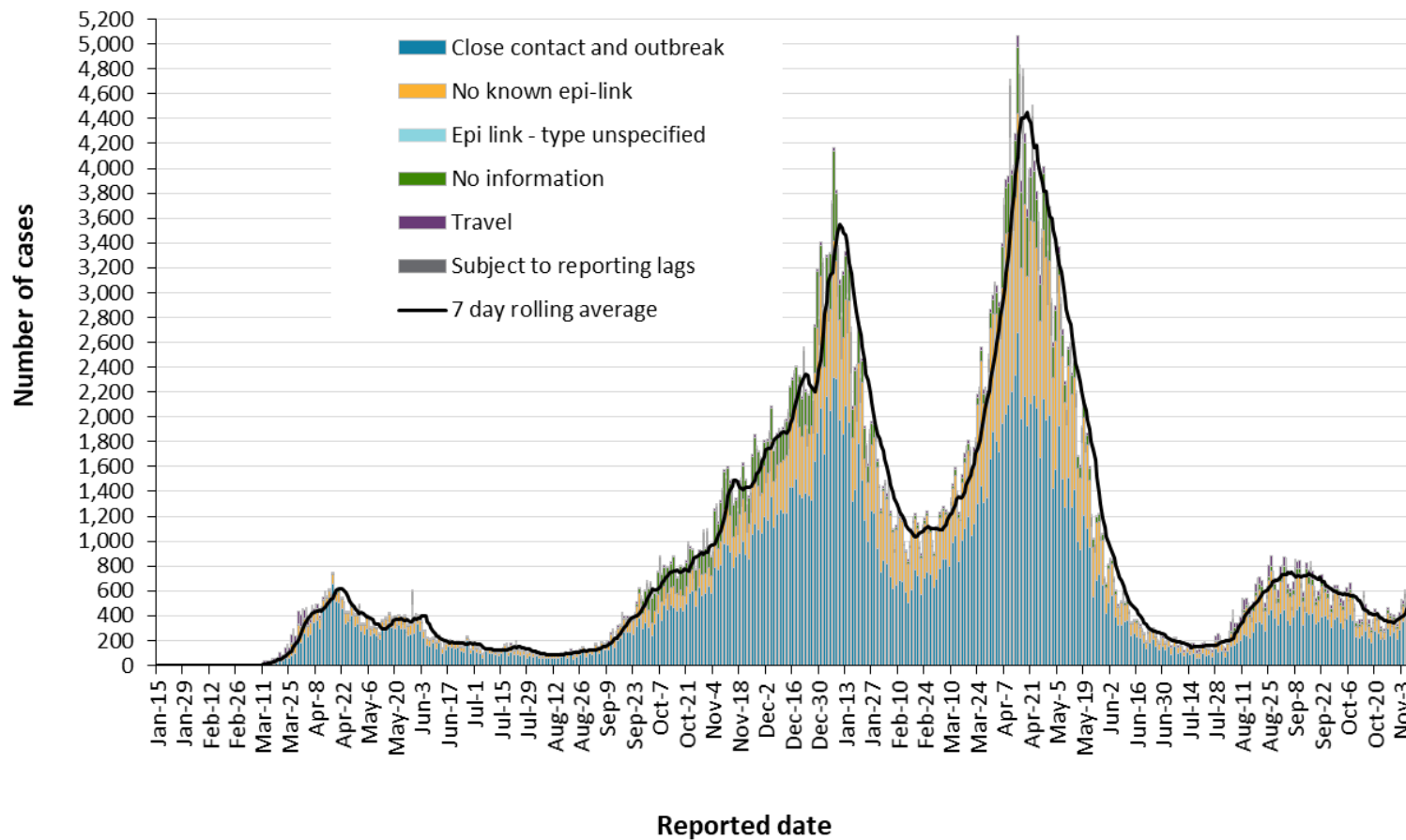
Long-term care home cases	Change in cases November 11, 2021	Change in cases November 12, 2021	Cumulative case count as of November 12, 2021
Residents	3	0	15,643
Health care workers	1	0	7,409
Deaths among residents	0	0	4,022
Deaths among health care workers	0	0	10

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

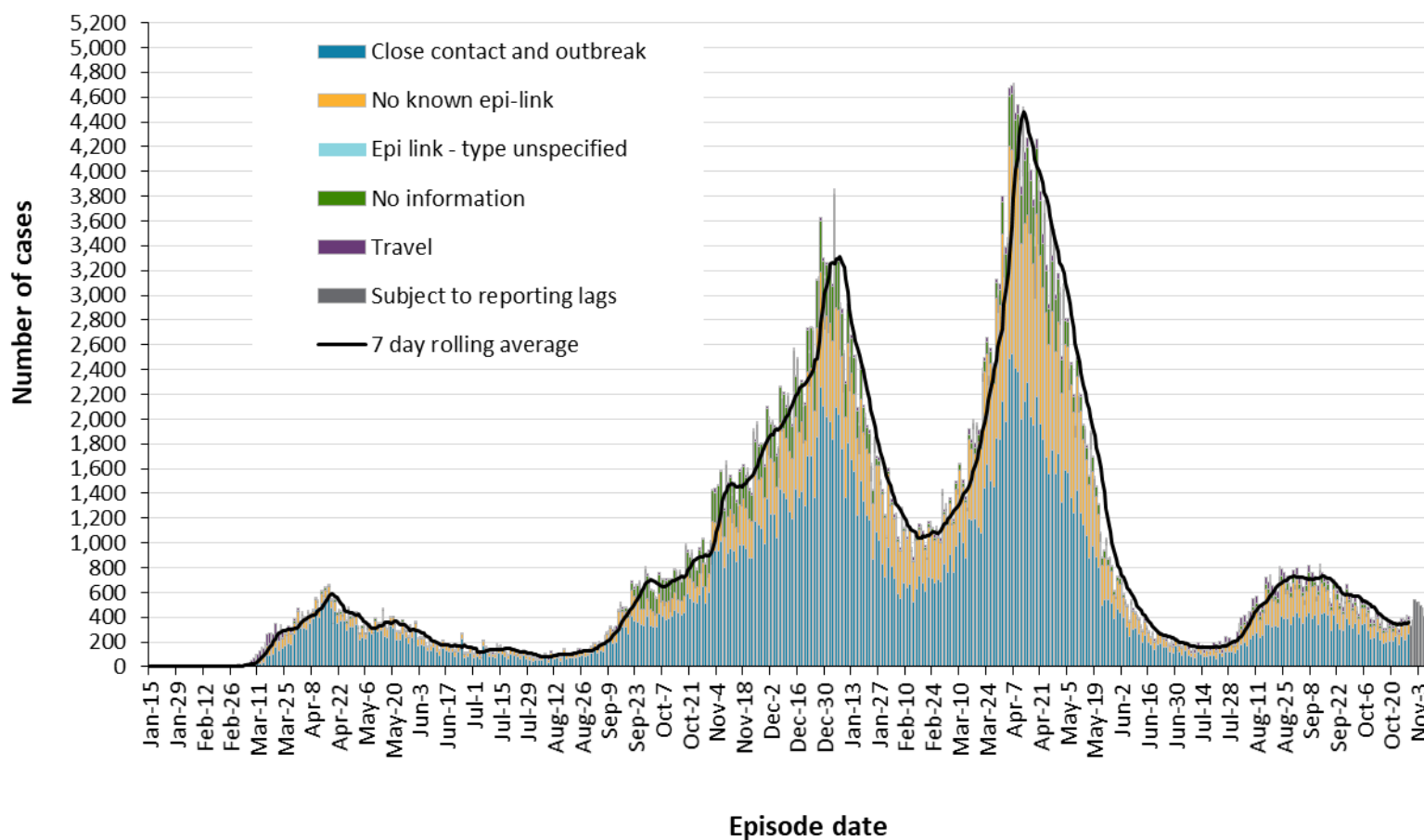
Figure 1. Confirmed cases of COVID-19 by likely acquisition and public health unit reported date: Ontario, January 15, 2020 to November 12, 2021



Data Source: CCM

COVID-19 in Ontario: January 15, 2020 to November 12, 2021

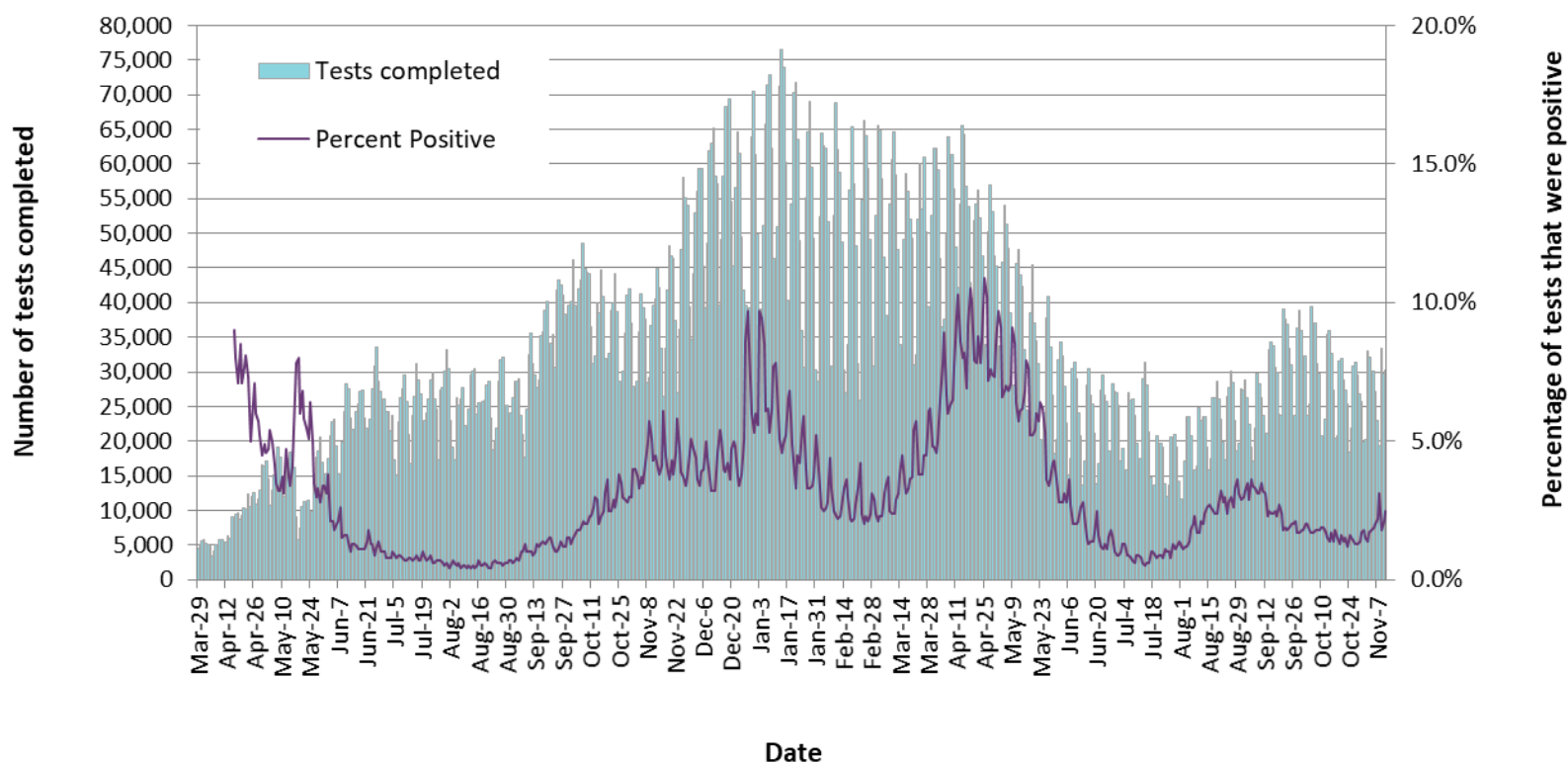
Figure 2. Confirmed cases of COVID-19 by likely acquisition and approximation of symptom onset date: Ontario, January 15, 2020 to November 12, 2021



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 November 11, 2021

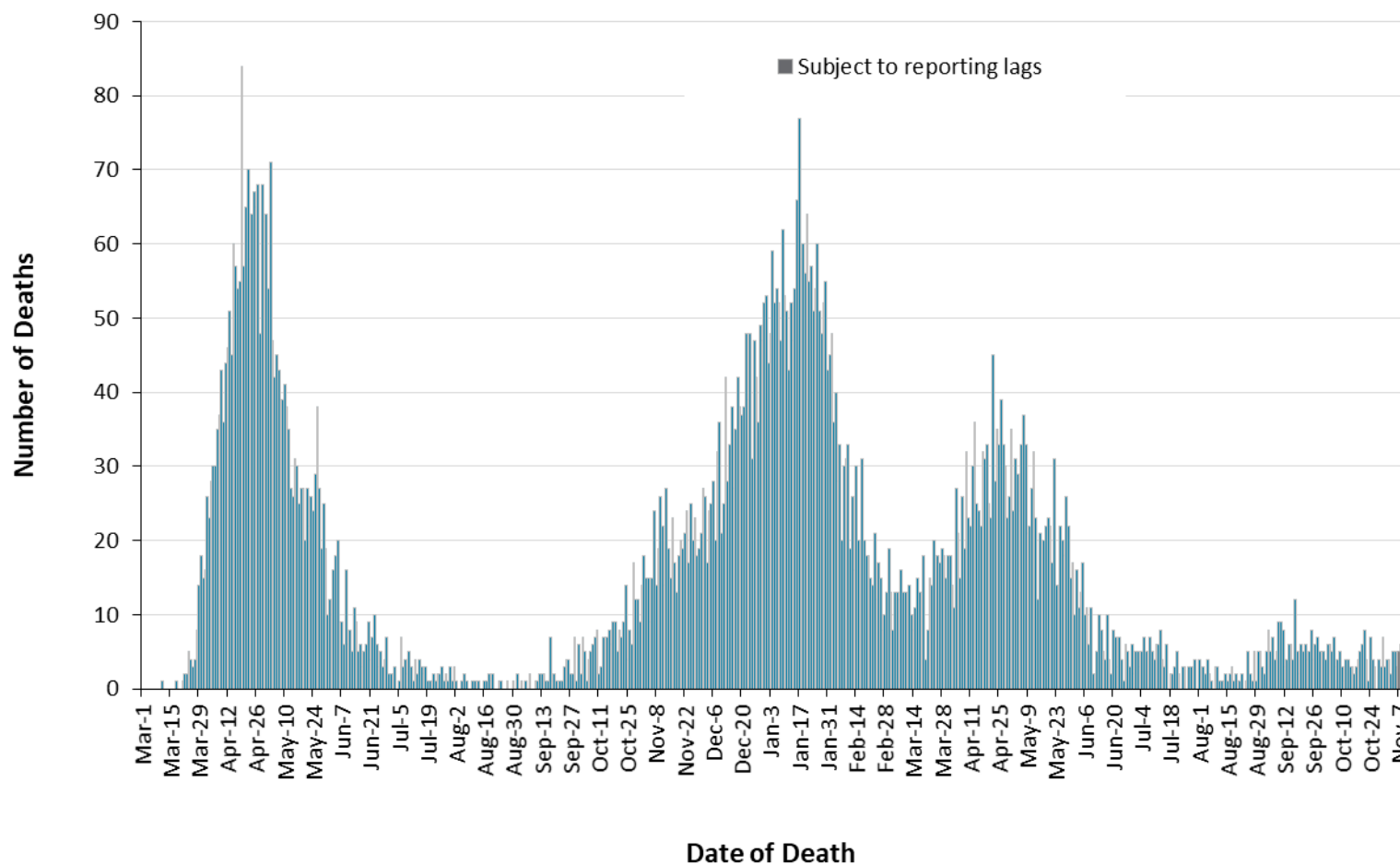


Note: The number of tests performed does not reflect the number of specimens or persons tested. More than one test may be performed per specimen or per person. As such, the percentage of tests that were positive does not necessarily translate to the number of specimens or persons testing positive.

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 November 12, 2021



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

Data Source: CCM

Table 3. Confirmed cases of COVID-19 by severity: Ontario

	Cumulative case count as of November 12, 2021	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	9,927	1.6%
Deaths reported in ages: 19 and under	6	<0.1%
Deaths reported in ages: 20-39	105	<0.1%
Deaths reported in ages: 40-59	693	0.4%
Deaths reported in ages: 60-79	3,252	4.1%
Deaths reported in ages: 80 and over	5,870	22.3%
Ever in ICU	6,068	1.0%
Ever hospitalized	30,867	5.1%

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. Percentage of deaths reported for each age group is calculated using all cases in the age group as the denominator.

Data Source: CCM

Geography

Table 4. Summary of recent confirmed cases of COVID-19 by public health unit and region: Ontario

Public Health Unit Name	Change in cases November 11, 2021	Change in cases November 12, 2021	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	0	0	1,203	1,481.8
Thunder Bay District Health Unit	2	1	3,458	2,192.7
TOTAL NORTH WEST	2	1	4,661	1,951.1
Algoma Public Health	27	29	661	560.9
North Bay Parry Sound District Health Unit	4	2	864	668.2
Porcupine Health Unit	3	1	2,249	2,645.9
Public Health Sudbury & Districts	32	35	3,205	1,561.5
Timiskaming Health Unit	3	1	257	758.4
TOTAL NORTH EAST	69	68	7,236	1,266.6
Ottawa Public Health	37	49	31,310	3,001.5
Eastern Ontario Health Unit	3	16	5,712	2,646.2
Hastings Prince Edward Public Health	2	5	1,514	876.0
Kingston, Frontenac and Lennox & Addington Public Health	13	21	2,105	1,006.1
Leeds, Grenville & Lanark District Health Unit	9	5	1,976	1,098.1
Renfrew County and District Health Unit	1	1	845	779.0
TOTAL EASTERN	65	97	43,462	2,252.5

Public Health Unit Name	Change in cases November 11, 2021	Change in cases November 12, 2021	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	37	35	27,648	3,886.3
Haliburton, Kawartha, Pine Ridge District Health Unit	0	3	2,519	1,320.7
Peel Public Health	43	27	116,387	7,443.3
Peterborough Public Health	3	4	1,940	1,309.8
Simcoe Muskoka District Health Unit	55	50	14,608	2,416.5
York Region Public Health	32	54	57,993	4,831.7
TOTAL CENTRAL EAST	170	173	221,095	5,003.6
Toronto Public Health	63	86	176,693	5,912.6
TOTAL TORONTO	63	86	176,693	5,912.6
Chatham-Kent Public Health	9	5	2,826	2,650.5
Grey Bruce Health Unit	8	3	2,401	1,363.0
Huron Perth Public Health	12	4	2,461	1,682.8
Lambton Public Health	4	8	4,265	3,207.4
Middlesex-London Health Unit	7	19	14,602	2,859.7
Southwestern Public Health	35	20	4,948	2,260.3
Windsor-Essex County Health Unit	43	43	20,881	4,845.4
TOTAL SOUTH WEST	118	102	52,384	3,041.3
Brant County Health Unit	19	11	4,714	3,069.8
City of Hamilton Public Health Services	14	12	25,366	4,360.5

Public Health Unit Name	Change in cases November 11, 2021	Change in cases November 12, 2021	Cumulative case count	Cumulative rate per 100,000 population
Haldimand-Norfolk Health Unit	16	9	3,150	2,624.8
Halton Region Public Health	12	15	19,382	3,174.4
Niagara Region Public Health	22	36	18,508	3,842.0
Region of Waterloo Public Health and Emergency Services	23	36	20,413	3,372.8
Wellington-Dufferin-Guelph Public Health	5	15	9,443	3,026.7
TOTAL CENTRAL WEST	111	134	100,976	3,524.7
TOTAL ONTARIO	598	661	606,507	4,116.4

Notes: Health units with data corrections or updates could result in records being removed from totals, leading to negative or zero counts.

Data Source: CCM

Outbreaks

Table 5. 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 November 11, 2021	Change in outbreaks November 12, 2021	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	1	0	3	1,547
Retirement homes	1	2	8	918
Hospitals	1	1	15	612

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 with a Ct value of ≤ 30 , these samples may then undergo genomic analyses to identify the VOC lineage. 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. For more information about whole genome sequencing, please see the [SARS CoV-2 Whole Genome Sequencing in Ontario report](#).

Table 6. Summary of confirmed COVID-19 cases with a mutation or VOC detected: Ontario

	Change in cases November 11, 2021	Change in cases November 12, 2021	Cumulative case count up to November 12, 2021
Variant of Concern			
Lineage B.1.1.7 (Alpha)*	0	0	146,508
Lineage B.1.351 (Beta)**	0	0	1,503
Lineage P.1 (Gamma) ***	0	0	5,231
Lineage B.1.617.2 (Delta)†	45	197	22,249
Mutations			
N501Y and E484K	2	0	4,473
N501Y (E484K unknown)‡	-1	-2	12,298
E484K (N501Y negative)	0	1	5,964
E484K (N501Y unknown)	0	0	425
Mutation not detected§	319	115	38,328

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 [data caveats](#) 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

**Includes B.1.351 cases identified by genomic analysis and those presumed to be B.1.351 based on 'Mutation K417N+ and N501Y+ and E484K+' in the Investigation Subtype field

***Includes P.1 cases identified by genomic analysis and those presumed to be P.1 based on 'Mutation K417T+ and N501Y+ and E484K+' in the Investigation Subtype field

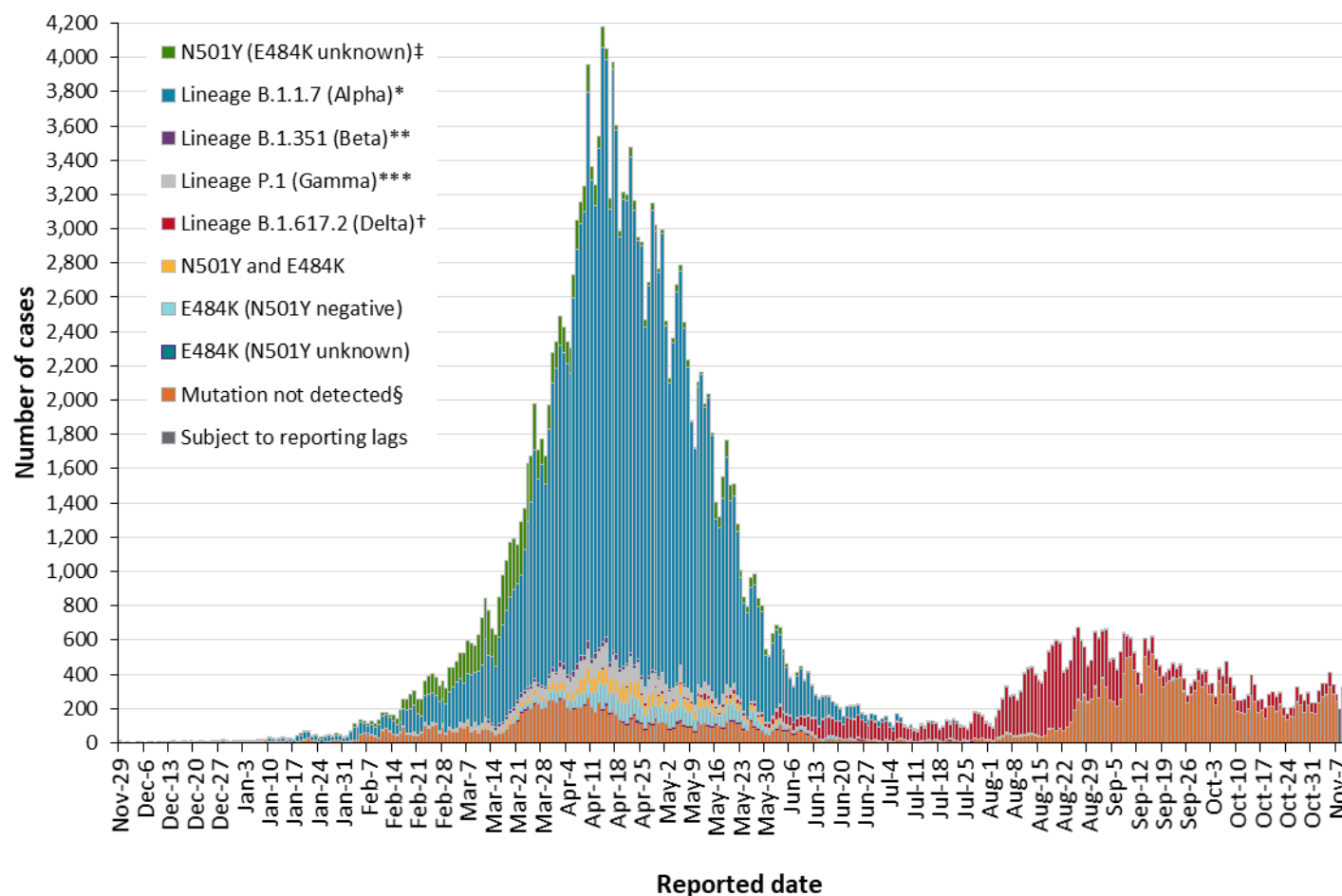
†Includes B.1.617.2 and AY.3 cases identified by genomic analysis. Mutations common to B.1.617.2 are not included in the current VOC mutation test.

‡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.

§Includes cases identified as 'Mutation not detected' or 'Mutation N501Y- and E484K-' in the Investigation Subtype field only.

Data Source: CCM

Figure 5. Confirmed COVID-19 cases with a mutation or VOC detected by public health unit reported date: Ontario, November 29, 2020 to November 12, 2021



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 [technical notes](#). 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, P.1 and B.1.617.2 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 [data caveats](#) section. As of March 22, 2021, positive specimens with a Ct \leq 35 are tested for both the N501Y and E484K mutation, with all E484K positive specimens with a Ct \leq 30 forwarded for further genomic analysis. If found to be positive for the N501Y mutation only, no further genomic analysis are performed as these are presumed to be B.1.1.7. As of May 26, 2021, cases where an E484K mutation is detected will no longer be reflexed for sequencing as VOC testing labs switched to a representative sampling method where only a proportion of all positives with a Ct \leq 30 are forwarded for further genomic analysis.

*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

**Includes B.1.351 cases identified by genomic analysis and those presumed to be B.1.351 based on 'Mutation K417N+ and N501Y+ and E484K+' in the Investigation Subtype field

***Includes P.1 cases identified by genomic analysis and those presumed to be P.1 based on 'Mutation K417T+ and N501Y+ and E484K+' in the Investigation Subtype field

†Includes B.1.617.2 and AY.3 cases identified by genomic analysis. Mutations common to B.1.617.2 are not included in the current VOC mutation test.

‡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.

§Includes cases identified as 'Mutation not detected' or 'Mutation N501Y- and E484K-' in the Investigation Subtype field only.

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 **November 12, 2021 at 1 p.m.** for cases reported from February 1, 2021 onwards and as of **November 11, 2021 at 9 a.m.** for cases reported up to January 31, 2021.
- VOC testing data for this report were based on information successfully extracted from CCM within the laboratory object for select Logical Observation Identifiers Names and Codes (LOINC) for cases reported between February 07, 2021 and August 17, 2021, for all PHUs by PHO as of September 29, 2021 at 1 p.m. VOC testing data for cases reported between February 07, 2021 and August 17, 2021 are supplemented with information from the Investigation lineage and Investigation mutation field. For cases reported as of August 18, 2021, VOC test value is assigned based on information solely from the Investigation lineage and Investigation mutation fields for all PHUs.
- 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 estimate data were sourced from Statistics Canada. Population estimates 2001-2020: Table 1 annual population estimates by age and sex for July 1, 2001 to 2020, health regions, Ontario [unpublished data table]. Ottawa, ON: Government of Canada; 2021 [received April 22, 2021].
- 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.
- Data cleaning for older cases is incorporated on Mondays and Thursdays and may impact the case count published on Tuesdays and Fridays.
- 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.
- 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 represents an estimate of disease onset. This date is calculated based on the earliest 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 or hospitalization/ICU was reported as 'Yes' 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 permanent health unit. This is equivalent to the diagnosing health unit (DHU) in iPHIS. 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.
- Male/Female information presented in this report are sourced from the Sex field in CCM and are intended to represent sex assigned at birth. On October 14, 2021 changes were made in CCM to enable reporting on the Sex field where these data are supplemented by archived Male/Female information previously entered in the Gender field.
- 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.
 - If the date of death is missing the outcome date field is used as a proxy 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.
- Public Health Ontario conducts testing and genomic analyses for SARS-CoV-2 positive specimens using the criteria outlined here: <https://www.publichealthontario.ca/en/laboratory-services/test-information-index/covid-19-voc>
- Lineage nomenclature is dynamic. PANGO lineage naming and assignment may change as more samples are sequenced and analyzed.
- Variant status may be updated based on scientific evidence. Variants designated as a VOC in Canada is available on the [Public Health Agency of Canada's SARS-CoV-2 Variants webpage](#).

- 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-CoV-2 specimens with Ct values ≤ 35 are tested for a N501Y mutation. As of March 22, 2021, positive specimens with a Ct ≤ 35 are tested for both the N501Y and E484K mutation, with all E484K positive specimens with a Ct ≤ 30 forwarded for further genomic analysis. If found to be positive for the N501Y mutation only, no further genomic analysis are performed as these are presumed to be B.1.1.7. As of May 26, 2021, cases where an E484K mutation is detected will no longer be reflexed for sequencing as VOC testing labs switched to a representative sampling method where only a proportion of all positives with a Ct ≤ 30 are forwarded for further 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 with a Ct value of ≤ 30 , these samples may then undergo genomic analyses to identify the VOC lineage. 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 lineage and Investigation mutation 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'
 - For cases reported post CCM release 14 (August 18, 2021), VOC test value is assigned based on information solely from the Investigation lineage and Investigation mutation fields
- 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, P.1 and B.1.617.2)
- LOINC codes 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. LOINC codes 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.

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, October 28 to November 9, 2021

Public Health Unit Name	Oct 28 to Nov 3	Oct 29 to Nov 4	Oct 30 to Nov 5	Oct 31 to Nov 6	Nov 1 to Nov 7	Nov 2 to Nov 8	Nov 3 to Nov 9	% change from Oct 28 – Nov 3 to Nov 3 – Nov 9
NORTH WEST								
Northwestern Health Unit	7.4	8.6	8.6	8.6	9.9	7.4	7.4	0.0%
Thunder Bay District Health Unit	12.0	11.4	14.0	15.2	16.5	16.5	12.7	+5.8%
NORTH EAST								
Algoma Public Health	35.6	29.7	30.5	32.2	23.8	34.8	39.9	+12.1%
North Bay Parry Sound District Health Unit	18.6	26.3	30.2	30.9	34.8	39.4	41.0	+120.4%
Porcupine Health Unit	11.8	11.8	11.8	12.9	12.9	14.1	25.9	+119.5%
Public Health Sudbury & Districts	82.8	75.5	88.7	91.6	107.2	109.6	116.9	+41.2%
Timiskaming Health Unit	20.7	20.7	20.7	20.7	23.6	20.7	20.7	0.0%
EASTERN								
Ottawa Public Health	17.9	18.6	21.8	22.9	23.6	25.8	26.7	+49.2%
Eastern Ontario Health Unit	15.3	18.1	17.1	18.5	21.3	23.2	24.6	+60.8%
Hastings Prince Edward Public Health	9.8	8.7	12.2	12.2	13.3	11.6	10.4	+6.1%
Kingston, Frontenac and Lennox & Addington Public Health	33.0	37.3	40.1	49.7	54.5	53.5	59.7	+80.9%

Public Health Unit Name	Oct 28 to Nov 3	Oct 29 to Nov 4	Oct 30 to Nov 5	Oct 31 to Nov 6	Nov 1 to Nov 7	Nov 2 to Nov 8	Nov 3 to Nov 9	% change from Oct 28 – Nov 3 to Nov 3 – Nov 9
Leeds, Grenville & Lanark District Health Unit	3.9	7.2	9.4	10.6	12.2	13.9	17.8	+356.4%
Renfrew County and District Health Unit	8.3	7.4	7.4	8.3	9.2	8.3	5.5	-33.7%
CENTRAL EAST								
Durham Region Health Department	5.5	6.5	8.2	9.0	10.8	13.2	15.3	+178.2%
Haliburton, Kawartha, Pine Ridge District Health Unit	5.2	5.2	7.3	7.3	7.3	6.3	5.8	+11.5%
Peel Public Health	13.5	14.6	15.4	15.8	16.1	16.1	17.3	+28.1%
Peterborough Public Health	6.1	7.4	13.5	12.8	16.2	18.2	19.6	+221.3%
Simcoe Muskoka District Health Unit	31.4	35.7	39.0	42.2	41.7	43.3	47.6	+51.6%
York Region Public Health	21.6	21.7	23.4	24.6	24.3	23.4	22.3	+3.2%
TORONTO								
Toronto Public Health	12.8	13.5	14.1	13.7	14.0	14.1	13.4	+4.7%
SOUTH WEST								
Chatham-Kent Public Health	42.2	37.5	31.0	31.9	35.6	40.3	34.7	-17.8%
Grey Bruce Health Unit	18.7	18.2	20.4	20.4	18.7	17.0	14.8	-20.9%
Huron Perth Public Health	25.3	25.3	28.7	30.8	32.1	33.5	39.0	+54.2%
Lambton Public Health	37.6	35.3	37.6	42.1	39.9	37.6	32.3	-14.1%
Middlesex-London Health Unit	13.3	13.3	12.1	11.4	12.1	12.5	13.5	+1.5%

Public Health Unit Name	Oct 28 to Nov 3	Oct 29 to Nov 4	Oct 30 to Nov 5	Oct 31 to Nov 6	Nov 1 to Nov 7	Nov 2 to Nov 8	Nov 3 to Nov 9	% change from Oct 28 – Nov 3 to Nov 3 – Nov 9
Southwestern Public Health	50.7	57.6	59.4	60.8	58.9	60.8	67.2	+32.5%
Windsor-Essex County Health Unit	34.8	35.0	37.1	36.2	33.9	35.5	41.3	+18.7%
CENTRAL WEST								
Brant County Health Unit	22.8	20.8	24.7	25.4	35.8	33.2	33.9	+48.7%
City of Hamilton Public Health Services	18.0	18.4	21.7	20.5	21.1	17.5	18.9	+5.0%
Haldimand-Norfolk Health Unit	45.0	54.2	55.8	60.0	61.7	60.0	66.7	+48.2%
Halton Region Public Health	13.8	13.8	15.2	15.2	15.6	16.2	15.6	+13.0%
Niagara Region Public Health	33.2	33.8	36.5	41.1	42.6	40.5	40.5	+22.0%
Region of Waterloo Public Health and Emergency Services	19.3	19.2	20.5	23.5	28.6	28.6	30.1	+56.0%
Wellington-Dufferin-Guelph Public Health	14.4	16.7	18.9	19.9	21.5	27.2	27.2	+88.9%
TOTAL ONTARIO	19.0	19.7	21.5	22.3	23.3	23.8	24.7	+30.0%

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 November 12, 2021

Public Health Unit Name	Cumulative count for Lineage B.1.1.7 (Alpha)*	Cumulative count for Lineage B.1.351 (Beta)**	Cumulative count for Lineage P.1 (Gamma)***	Cumulative count for Lineage B.1.617.2 (Delta)†	Cumulative count for mutations‡
Algoma Public Health	68	0	15	47	26
Brant County Health Unit	670	2	97	357	508
Chatham-Kent Public Health	131	5	16	269	109
City of Hamilton Public Health Services	5,066	66	105	1,765	2,093
Durham Region Health Department	9,524	66	270	816	1,212
Eastern Ontario Health Unit	665	46	21	168	268
Grey Bruce Health Unit	310	0	6	625	58
Haldimand-Norfolk Health Unit	369	3	23	143	408
Haliburton, Kawartha, Pine Ridge District Health Unit	446	0	23	174	307
Halton Region Public Health	5,090	30	169	783	620
Hastings Prince Edward Public Health	112	0	18	129	391
Huron Perth Public Health	279	0	12	173	30
Kingston, Frontenac and Lennox & Addington Public Health	458	2	35	131	132
Lambton Public Health	438	0	18	185	134
Leeds, Grenville & Lanark District Health Unit	294	19	0	75	44
Middlesex-London Health Unit	3,384	2	124	841	189

Public Health Unit Name	Cumulative count for Lineage B.1.1.7 (Alpha)*	Cumulative count for Lineage B.1.351 (Beta)**	Cumulative count for Lineage P.1 (Gamma)***	Cumulative count for Lineage B.1.617.2 (Delta)†	Cumulative count for mutations‡
Niagara Region Public Health	4,286	4	20	245	1,104
North Bay Parry Sound District Health Unit	235	28	3	96	13
Northwestern Health Unit	67	0	1	26	17
Ottawa Public Health	6,851	515	55	720	473
Peel Public Health	31,191	163	1,774	3,070	2,858
Peterborough Public Health	630	4	8	140	162
Porcupine Health Unit	1,108	2	0	82	9
Public Health Sudbury & Districts	689	13	10	85	268
Region of Waterloo Public Health and Emergency Services	3,134	21	98	1,931	254
Renfrew County and District Health Unit	232	8	7	20	12
Simcoe Muskoka District Health Unit	4,010	36	174	736	681
Southwestern Public Health	690	3	21	281	170
Thunder Bay District Health Unit	104	1	2	35	74
Timiskaming Health Unit	84	1	0	6	0
Toronto Public Health	46,071	375	1,524	4,534	7,476
Wellington-Dufferin-Guelph Public Health	2,085	1	81	491	177
Windsor-Essex County Health Unit	1,857	8	19	1,249	143
York Region Public Health	15,880	79	482	1,821	2,740

Public Health Unit Name	Cumulative count for Lineage B.1.1.7 (Alpha)*	Cumulative count for Lineage B.1.351 (Beta)**	Cumulative count for Lineage P.1 (Gamma)***	Cumulative count for Lineage B.1.617.2 (Delta)†	Cumulative count for mutations‡
TOTAL ONTARIO	146,508	1,503	5,231	22,249	23,160

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 [data caveats](#) 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.

**Includes B.1.351 cases identified by genomic analysis and those presumed to be B.1.351 based on 'Mutation K417N+ and N501Y+ and E484K+' in the Investigation Subtype field

***Includes P.1 cases identified by genomic analysis and those presumed to be P.1 based on 'Mutation K417T+ and N501Y+ and E484K+' in the Investigation Subtype field

†Includes B.1.617.2 and AY.3 cases identified by genomic analysis. Mutations common to B.1.617.2 are not included in the current VOC mutation test.

‡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

Citation

Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic summary: COVID-19 in Ontario – January 15, 2020 to November 12, 2021. Toronto, ON: Queen’s Printer for Ontario; 2021.

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For Further Information

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Public Health Ontario

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