

DAILY EPIDEMIOLOGICAL SUMMARY

COVID-19 in Ontario: January 15, 2020 to December 4, 2021

This report includes the most current information available from CCM as of December 4, 2021.

A weekly summary report is available with additional information to complement the daily report.

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. For more information about whole genome sequencing, please see the <u>SARS COV-2 Whole Genome Sequencing in Ontario report</u>.

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 623,497 confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
 - An increase of 1,184 confirmed cases (percent change of +12.4%)
 - An increase of 0 deaths (percent change of -100.0%)
 - An increase of 609 resolved cases (percent change of -15.7%)

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 December 3, 2021	Change in cases December 4, 2021	Percentage change December 4, 2021 compared to December 3, 2021	Cumulative case count as of December 4, 2021	
Total number of cases	1,053	1,184	+12.4%	623,497	
Number of deaths	7	0	-100.0%	10,024	
Number resolved	722	609	-15.7%	605,358	

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 December 3, 2021	Change in cases December 4, 2021	Cumulative case count as of December 4, 2021
Sex: Male	512	603	311,694
Sex: Female	535	578	309,594
Ages: 0-4	62	69	18,341
Ages: 5-11	190	242	35,976
Ages: 12-19	67	88	55,330
Ages: 20-39	313	347	232,575
Ages: 40-59	276	278	173,841
Ages: 60-79	119	131	80,616
Ages: 80 and over	25	31	26,710

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.

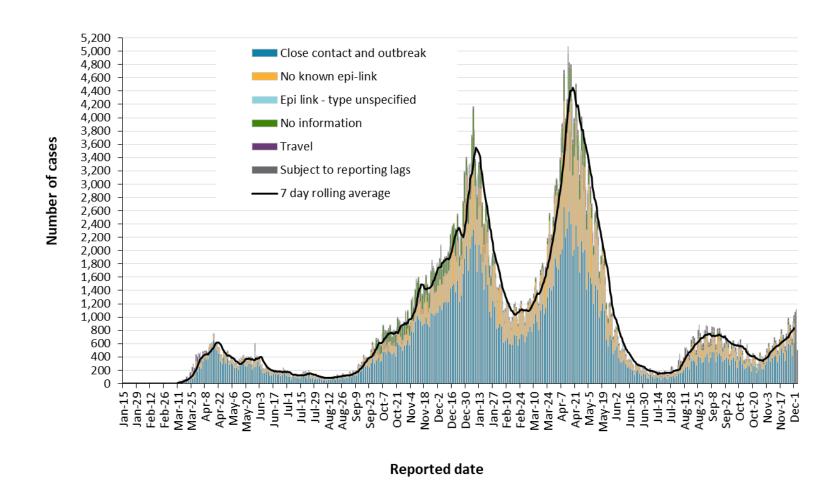
Table 2. Summary of recent confirmed cases of COVID-19 in long-term care homes: Ontario

Long-term care home cases	Change in cases December 3, 2021	Change in cases December 4, 2021	Cumulative case count as of December 4, 2021
Residents	2	0	15,664
Health care workers	0	0	7,419
Deaths among residents	1	0	4,026
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 <u>technical notes</u>. Also, the change in cases in these categories may represent existing case records that have been updated.

Time

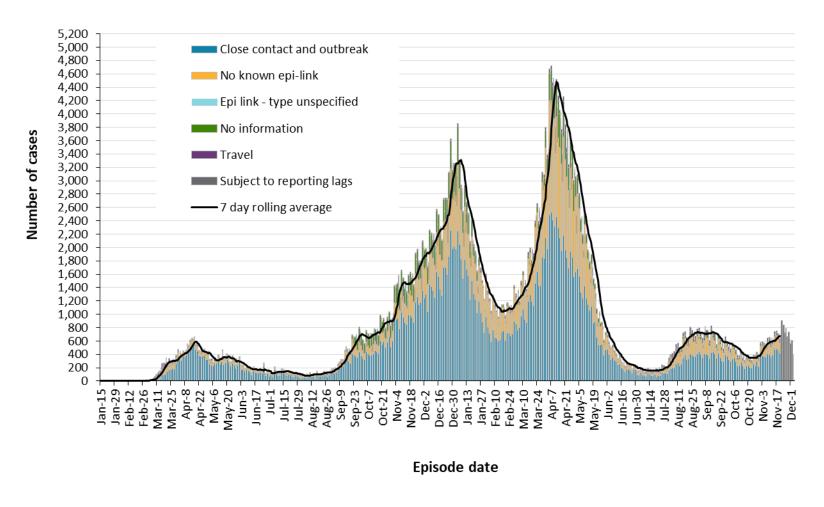
Figure 1. Confirmed cases of COVID-19 by likely acquisition and public health unit reported date: Ontario, January 15, 2020 to December 4, 2021



Data Source: CCM

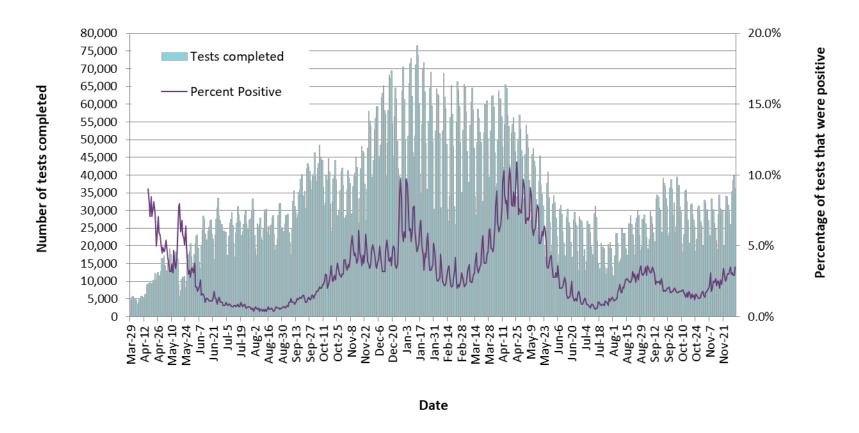
COVID-19 in Ontario: January 15, 2020 to December 4, 2021

Figure 2. Confirmed cases of COVID-19 by likely acquisition and approximation of symptom onset date: Ontario, January 15, 2020 to December 4, 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 <u>technical notes</u>. **Data Source**: CCM

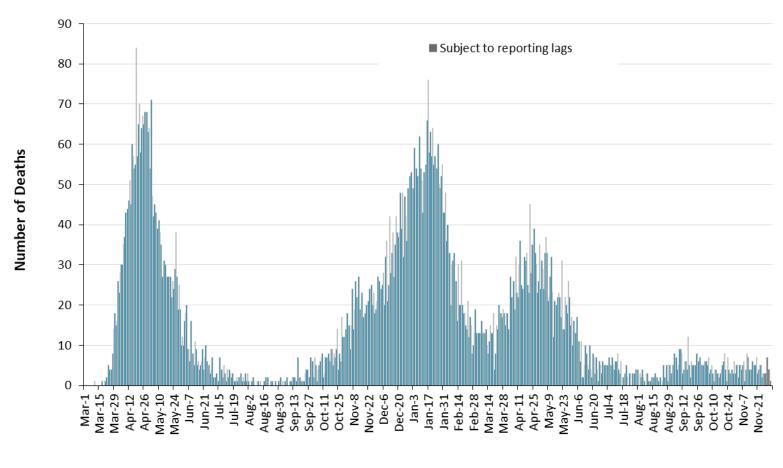
Figure 3. Number of COVID-19 tests completed and percent positivity: Ontario, March 29, 2020 to December 3, 2021



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 December 4, 2021



Date of Death

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

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

	Cumulative case count as of December 4, 2021	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	10,024	1.6%
Deaths reported in ages: 19 and under	7	<0.1%
Deaths reported in ages: 20-39	107	<0.1%
Deaths reported in ages: 40-59	700	0.4%
Deaths reported in ages: 60-79	3,301	4.1%
Deaths reported in ages: 80 and over	5,908	22.1%
Ever in ICU	6,216	1.0%
Ever hospitalized	31,467	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. Percentage of deaths reported for each age group is calculated using all cases in the age group as the denominator.

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 December 3, 2021	Change in cases December 4, 2021	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	2	7	1,250	1,539.7
Thunder Bay District Health Unit	30	30	3,677	2,331.6
TOTAL NORTH WEST	32	37	4,927	2,062.4
Algoma Public Health	44	26	1,274	1,081.1
North Bay Parry Sound District Health Unit	6	7	934	722.3
Porcupine Health Unit	0	1	2,278	2,680.0
Public Health Sudbury & Districts	50	36	3,977	1,937.6
Timiskaming Health Unit	7	9	407	1,201.1
TOTAL NORTH EAST	107	79	8,870	1,552.6
Ottawa Public Health	69	54	32,256	3,092.2
Eastern Ontario Health Unit	14	17	5,964	2,762.9
Hastings Prince Edward Public Health	29	22	1,817	1,051.3
Kingston, Frontenac and Lennox & Addington Public Health	40	40	2,761	1,319.6
Leeds, Grenville & Lanark District Health Unit	5	10	2,096	1,164.8
Renfrew County and District Health Unit	4	3	919	847.2
TOTAL EASTERN	161	146	45,813	2,374.4

Public Health Unit Name	Change in cases December 3, 2021	Change in cases December 4, 2021	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	29	18	28,266	3,973.1
Haliburton, Kawartha, Pine Ridge District Health Unit	0	8	2,601	1,363.7
Peel Public Health	59	81	117,479	7,513.1
Peterborough Public Health	6	9	2,047	1,382.0
Simcoe Muskoka District Health Unit	101	96	16,168	2,674.6
York Region Public Health	54	88	58,988	4,914.6
TOTAL CENTRAL EAST	249	300	225,549	5,104.4
Toronto Public Health	139	152	178,830	5,984.1
TOTAL TORONTO	139	152	178,830	5,984.1
Chatham-Kent Public Health	14	33	3,061	2,870.9
Grey Bruce Health Unit	11	9	2,509	1,424.4
Huron Perth Public Health	9	12	2,634	1,801.1
Lambton Public Health	11	18	4,427	3,329.3
Middlesex-London Health Unit	45	34	15,025	2,942.6
Southwestern Public Health	24	45	5,505	2,514.8
Windsor-Essex County Health Unit	54	86	22,186	5,148.2
TOTAL SOUTH WEST	168	237	55,347	3,213.3
Brant County Health Unit	18	12	5,045	3,285.4
City of Hamilton Public Health Services	33	36	25,885	4,449.7

Public Health Unit Name	Change in cases December 3, 2021	Change in cases December 4, 2021	Cumulative case count	Cumulative rate per 100,000 population
Haldimand-Norfolk Health Unit	13	15	3,491	2,909.0
Halton Region Public Health	30	56	19,923	3,263.0
Niagara Region Public Health	41	41	19,036	3,951.6
Region of Waterloo Public Health and Emergency Services	39	46	21,092	3,484.9
Wellington-Dufferin-Guelph Public Health	23	27	9,689	3,105.5
TOTAL CENTRAL WEST	197	233	104,161	3,635.9
TOTAL ONTARIO	1,053	1,184	623,497	4,231.7

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

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 December 3, 2021	Change in outbreaks December 4, 2021	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	0	1	7	1,555
Retirement homes	-1	0	7	924
Hospitals	0	1	7	622

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.

Variant COVID-19 Cases

Table 6. Summary of confirmed COVID-19 cases with a lineage* detected from October 31, 2021 to December 4, 2021: Ontario

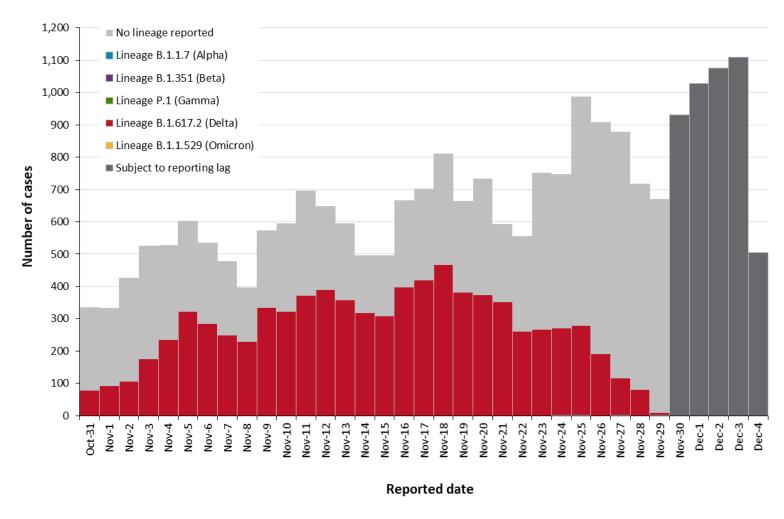
	Change in cases December 3, 2021	Change in cases December 4, 2021	Cumulative case count since October 31, 2021**
Variant of Concern			
Lineage B.1.1.7 (Alpha)	0	0	1
Lineage B.1.351 (Beta)	0	0	0
Lineage P.1 (Gamma)	0	0	1
Lineage B.1.617.2 (Delta)	326	558	8,077
Lineage B.1.1.529 (Omicron)	4	2	10

Note: Interpret the VOC trends with caution due to the varying time required to complete 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 Lineage 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 with a lineage identified by genomic analysis and reported in CCM as of the extraction time. B.1.617.2 (Delta) includes all Delta sublineage cases identified by genomic analysis.

^{**}Cumulative case counts may be impacted by lags in case identification, reporting and/or data entry.

Figure 5. Confirmed COVID-19 cases with a lineage* detected by public health unit reported date: Ontario, October 31, 2021 to December 4, 2021



Note: Reported date is the date the case was reported, not the date that the VOC was identified. Details on testing for variants of concern are in the <u>technical notes</u>. Interpret the VOC 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. *Includes all confirmed COVID-19 cases with a lineage identified by genomic analysis. B.1.617.2 (Delta) includes all Delta sublineage cases identified by genomic analysis. 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 December 4, 2021 at 1
 p.m. for cases reported from February 1, 2021 onwards and as of December 2, 2021 at 9 a.m.
 for cases reported up to January 31, 2021.
- 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 <u>MOH Case Definition</u> –
 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.
- 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 ≤30, may then undergo genomic analyses to identify the VOC lineage.
- If a VOC is identified through genomic analysis cases initially classified as a mutation may be updated and moved to the appropriate lineage (e.g. B.1.1.529, B.1.617.2)

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, November 19 to December 1, 2021

Public Health Unit Name	Nov 19 to Nov 25	Nov 20 to Nov 26	Nov 21 to Nov 27	Nov 22 to Nov 28	Nov 23 to Nov 29	Nov 24 to Nov 30	Nov 25 to Dec 1	% change from Nov 19 – Nov 25 to Nov 25 – Dec 1
NORTH WEST								
Northwestern Health Unit	22.2	22.2	16.0	16.0	19.7	20.9	20.9	-5.9%
Thunder Bay District Health Unit	41.2	50.1	57.1	55.2	57.7	58.3	62.1	+50.7%
NORTH EAST								
Algoma Public Health	160.4	168.9	170.6	170.6	183.3	184.1	196.9	+22.8%
North Bay Parry Sound District Health Unit	12.4	10.8	13.9	13.9	11.6	11.6	13.1	+5.6%
Porcupine Health Unit	11.8	12.9	11.8	12.9	10.6	9.4	9.4	-20.3%
Public Health Sudbury & Districts	118.4	112.5	100.8	102.8	115.5	122.8	127.6	+7.8%
Timiskaming Health Unit	215.4	227.2	197.7	197.7	168.2	141.7	132.8	-38.3%
EASTERN								
Ottawa Public Health	25.5	28.1	27.4	27.1	26.5	29.4	30.9	+21.2%
Eastern Ontario Health Unit	40.3	42.2	38.9	39.4	39.4	42.2	38.9	-3.5%
Hastings Prince Edward Public Health	57.3	64.2	65.4	66.5	68.9	75.2	68.9	+20.2%
Kingston, Frontenac and Lennox & Addington Public Health	90.8	98.9	103.7	115.2	118.1	113.3	111.8	+23.1%

Public Health Unit Name	Nov 19 to Nov 25	Nov 20 to Nov 26	Nov 21 to Nov 27	Nov 22 to Nov 28	Nov 23 to Nov 29	Nov 24 to Nov 30	Nov 25 to Dec 1	% change from Nov 19 – Nov 25 to Nov 25 – Dec 1
Leeds, Grenville & Lanark District Health Unit	18.3	17.8	13.9	15.6	15.6	16.1	15.0	-18.0%
Renfrew County and District Health Unit	18.4	22.1	22.1	22.1	21.2	22.1	24.9	+35.3%
CENTRAL EAST								
Durham Region Health Department	26.8	28.5	29.4	29.4	29.5	31.3	32.0	+19.4%
Haliburton, Kawartha, Pine Ridge District Health Unit	11.5	12.6	15.2	15.2	16.8	16.8	20.4	+77.4%
Peel Public Health	21.5	21.3	21.4	22.6	23.7	23.5	26.3	+22.3%
Peterborough Public Health	27.7	27.7	25.7	29.0	27.0	29.0	28.4	+2.5%
Simcoe Muskoka District Health Unit	75.9	82.2	84.9	85.7	84.9	85.9	91.5	+20.6%
York Region Public Health	25.2	27.2	28.6	28.1	26.4	26.6	27.6	+9.5%
TORONTO								
Toronto Public Health	20.9	21.7	22.9	23.1	23.7	24.9	26.1	+24.9%
SOUTH WEST								
Chatham-Kent Public Health	52.5	56.3	56.3	64.7	71.3	80.7	87.2	+66.1%
Grey Bruce Health Unit	19.3	22.1	26.7	26.1	26.7	25.5	25.0	+29.5%
Huron Perth Public Health	29.4	33.5	33.5	41.7	44.4	43.1	45.1	+53.4%
Lambton Public Health	36.8	36.8	36.8	34.6	36.1	38.4	39.9	+8.4%
Middlesex-London Health Unit	21.9	22.1	22.9	24.7	23.1	24.7	28.2	+28.8%

Public Health Unit Name	Nov 19 to Nov 25	Nov 20 to Nov 26	Nov 21 to Nov 27	Nov 22 to Nov 28	Nov 23 to Nov 29	Nov 24 to Nov 30	Nov 25 to Dec 1	% change from Nov 19 – Nov 25 to Nov 25 – Dec 1
Southwestern Public Health	83.1	86.3	85.0	82.7	78.1	72.2	74.9	-9.9%
Windsor-Essex County Health Unit	83.5	93.3	107.9	113.9	123.4	126.7	134.8	+61.4%
CENTRAL WEST								
Brant County Health Unit	67.7	74.2	87.3	82.7	83.4	91.8	93.8	+38.6%
City of Hamilton Public Health Services	26.5	24.4	25.6	25.8	28.5	28.5	30.1	+13.6%
Haldimand-Norfolk Health Unit	85.0	85.8	85.8	95.0	89.2	86.7	88.3	+3.9%
Halton Region Public Health	23.3	26.7	27.5	30.6	34.7	37.3	38.7	+66.1%
Niagara Region Public Health	26.2	25.7	25.1	27.0	28.9	29.3	30.9	+17.9%
Region of Waterloo Public Health and Emergency Services	37.2	34.4	34.2	30.4	27.8	32.4	34.4	-7.5%
Wellington-Dufferin- Guelph Public Health	19.9	20.8	20.8	23.4	24.0	24.4	26.3	+32.2%
TOTAL ONTARIO	34.2	35.8	36.8	37.7	38.4	39.6	41.6	+21.6%

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

Table A2. Cumulative* count of confirmed COVID-19 cases with lineage** identified by public health unit: Ontario, as of December 4, 2021

Public Health Unit Name	Lineage B.1.1.7 (Alpha)	Lineage B.1.351 (Beta)	Lineage P.1 (Gamma)	Lineage B.1.617.2 (Delta)	Lineage B.1.1.529 (Omicron)
Algoma Public Health	0	0	0	112	0
Brant County Health Unit	0	0	0	150	0
Chatham-Kent Public Health	0	0	0	85	0
City of Hamilton Public Health Services	0	0	0	292	1
Durham Region Health Department	0	0	0	390	3
Eastern Ontario Health Unit	0	0	0	112	0
Grey Bruce Health Unit	0	0	0	54	0
Haldimand-Norfolk Health Unit	0	0	0	223	0
Haliburton, Kawartha, Pine Ridge District Health Unit	0	0	0	35	0
Halton Region Public Health	0	0	0	234	1
Hastings Prince Edward Public Health	0	0	0	106	0
Huron Perth Public Health	0	0	0	115	0
Kingston, Frontenac and Lennox & Addington Public Health	0	0	0	328	0
Lambton Public Health	0	0	0	91	0
Leeds, Grenville & Lanark District Health Unit	0	0	0	82	0
Middlesex-London Health Unit	0	0	0	192	0
Niagara Region Public Health	0	0	0	110	0

Public Health Unit Name	Lineage B.1.1.7 (Alpha)	Lineage B.1.351 (Beta)	Lineage P.1 (Gamma)	Lineage B.1.617.2 (Delta)	Lineage B.1.1.529 (Omicron)
North Bay Parry Sound District Health Unit	0	0	0	25	0
Northwestern Health Unit	0	0	0	11	0
Ottawa Public Health	1	0	0	435	4
Peel Public Health	0	0	0	571	0
Peterborough Public Health	0	0	0	56	0
Porcupine Health Unit	0	0	0	31	0
Public Health Sudbury & Districts	0	0	0	109	0
Region of Waterloo Public Health and Emergency Services	0	0	0	404	0
Renfrew County and District Health Unit	0	0	0	28	0
Simcoe Muskoka District Health Unit	0	0	0	828	0
Southwestern Public Health	0	0	0	355	0
Thunder Bay District Health Unit	0	0	0	56	0
Timiskaming Health Unit	0	0	0	34	0
Toronto Public Health	0	0	1	1,166	0
Wellington-Dufferin-Guelph Public Health	0	0	0	142	0
Windsor-Essex County Health Unit	0	0	0	452	0
York Region Public Health	0	0	0	663	1
TOTAL ONTARIO	1	0	1	8,077	10

Note: Interpret the VOC trends with caution due to the varying time required to complete 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 Lineage field only. Changes to the VOC testing algorithm may impact counts and trends. Further details can be found in the data caveats section.

*Cumulative counts include cases with a reported date since October 31, 2021 and may be impacted by lags in case identification, reporting and/or data entry.

**Includes all confirmed COVID-19 cases with a lineage identified by genomic analysis and reported in CCM as of the extraction time. B.1.617.2 (Delta) includes all Delta sublineage cases identified by genomic analysis.

Citation

Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic summary: COVID-19 in Ontario – January 15, 2020 to December 4, 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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