Public Health Ontario | Santé publique Ontario

DAILY EPIDEMIOLOGICAL SUMMARY

COVID-19 in Ontario: January 15, 2020 to July 30, 2021

This report includes the most current information available from CCM as of **July 30, 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 550,436 confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
    - An increase of 258 confirmed cases (percent change of +14.2%)
    - An increase of 6 deaths (percent change of -45.5%)
    - An increase of 137 resolved cases (percent change of -7.4%)

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

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

Case Characteristics

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

	Change in cases July 29, 2021	Change in cases July 30, 2021	Percentage change July 30, 2021 compared to July 29, 2021	Cumulative case count as of July 30, 2021
Total number of cases	226	258	+14.2%	550,436
Number of deaths	11	6	-45.5%	9,345
Number resolved	148	137	-7.4%	539,485

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

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

	Change in cases July 29, 2021	Change in cases July 30, 2021	Cumulative case count as of July 30, 2021
Gender: Male	99	124	274,378
Gender: Female	124	130	272,376
Ages: 19 and under	68	80	89,133
Ages: 20-39	81	115	206,200
Ages: 40-59	52	45	156,802
Ages: 60-79	18	16	72,991
Ages: 80 and over	10	0	25,216

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

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

	Change in cases July 29, 2021	Change in cases July 30, 2021	Cumulative case count from August 30, 2020 to July 30, 2021
Ages: 4 to 8	10	17	16,537
Ages: 9 to 13	20	15	20,640
Ages: 14 to 17	15	18	21,018

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

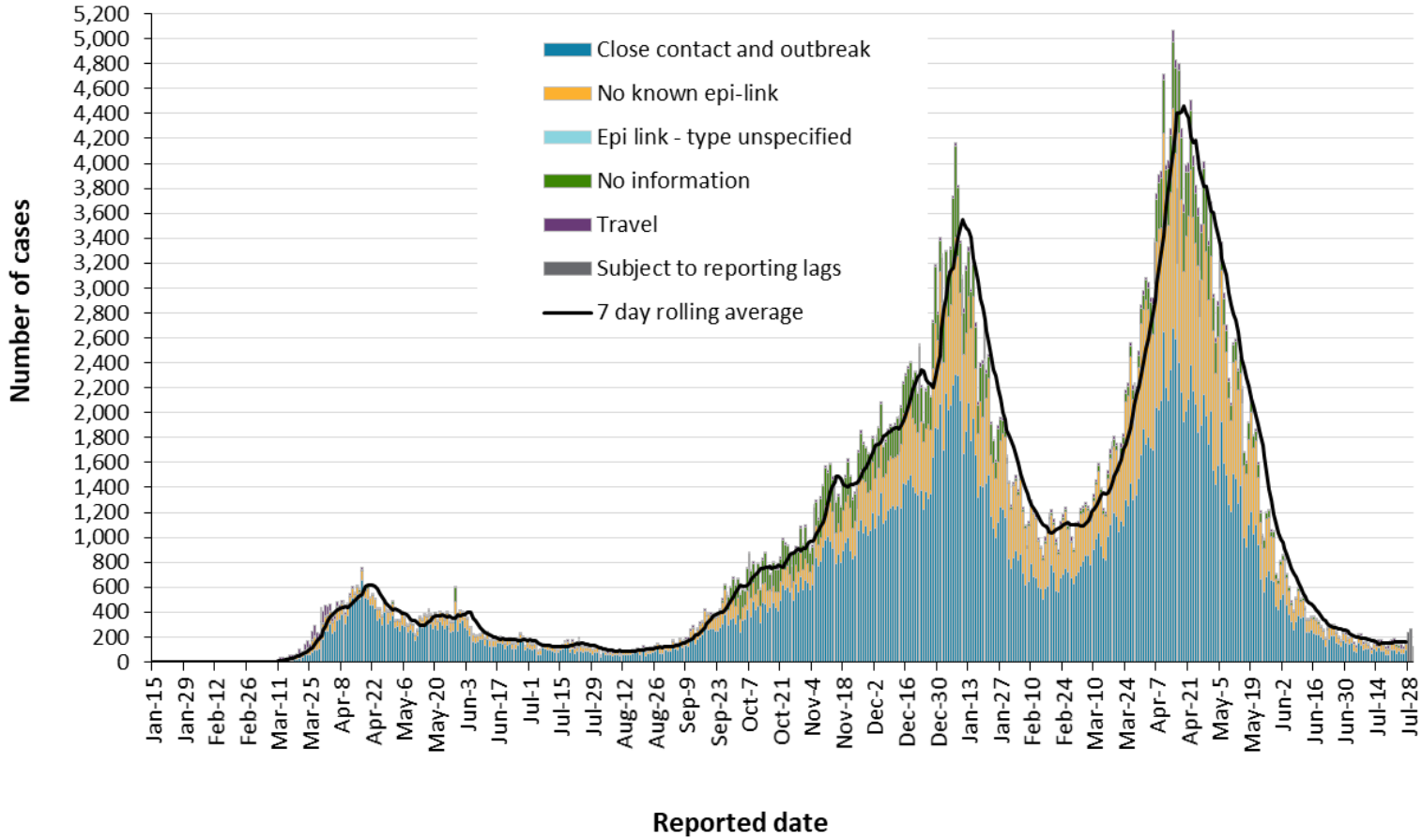
Table 3. Summary of recent confirmed cases of COVID-19 in long-term care homes: Ontario

Long-term care home cases	Change in cases July 29, 2021	Change in cases July 30, 2021	Cumulative case count as of July 30, 2021
Residents	6	-1	15,458
Health care workers	1	-1	7,240
Deaths among residents	1	0	3,980
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

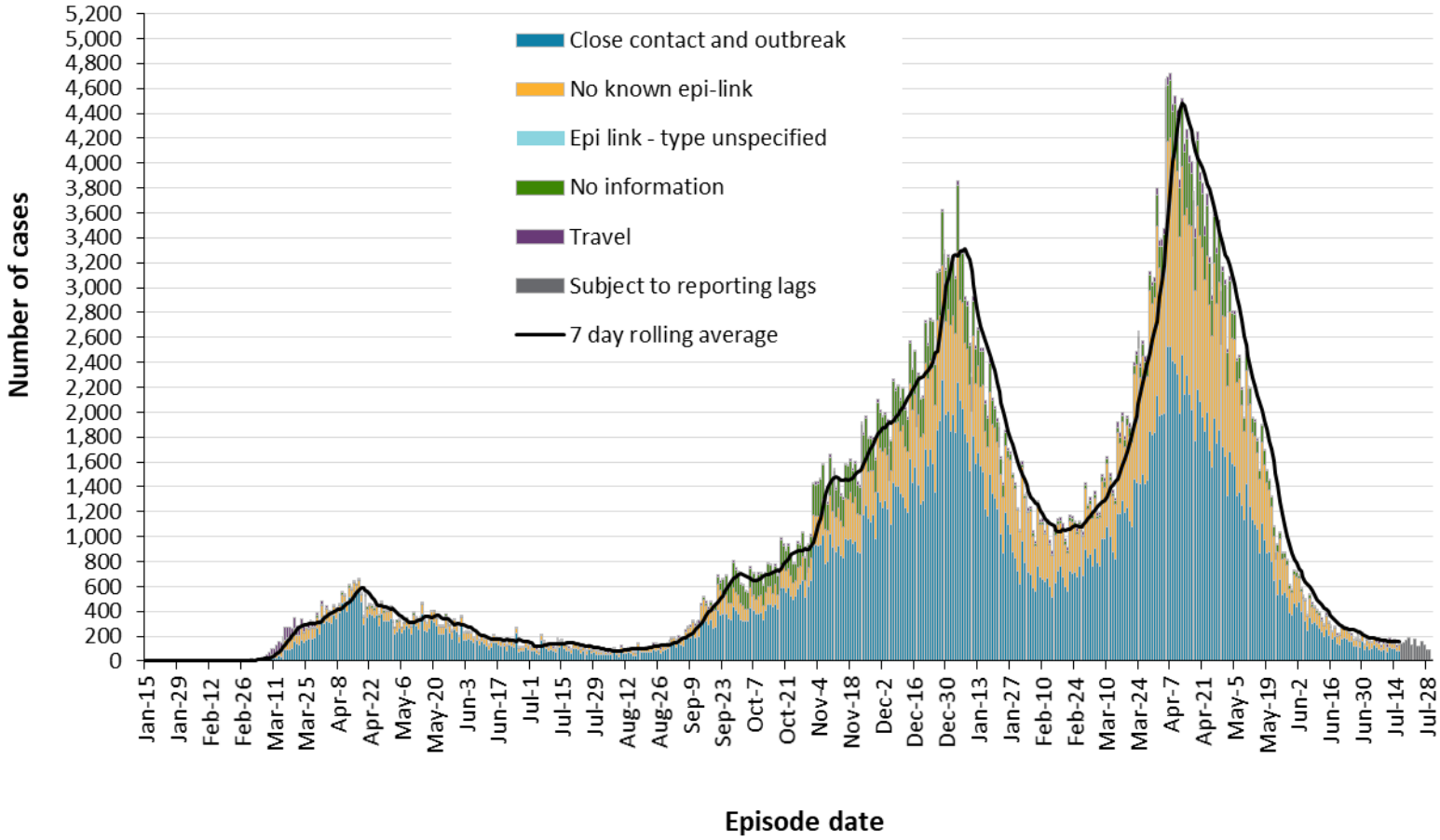
Time

Figure 1. Confirmed cases of COVID-19 by likely acquisition and public health unit reported date: Ontario, January 15, 2020 to July 30, 2021



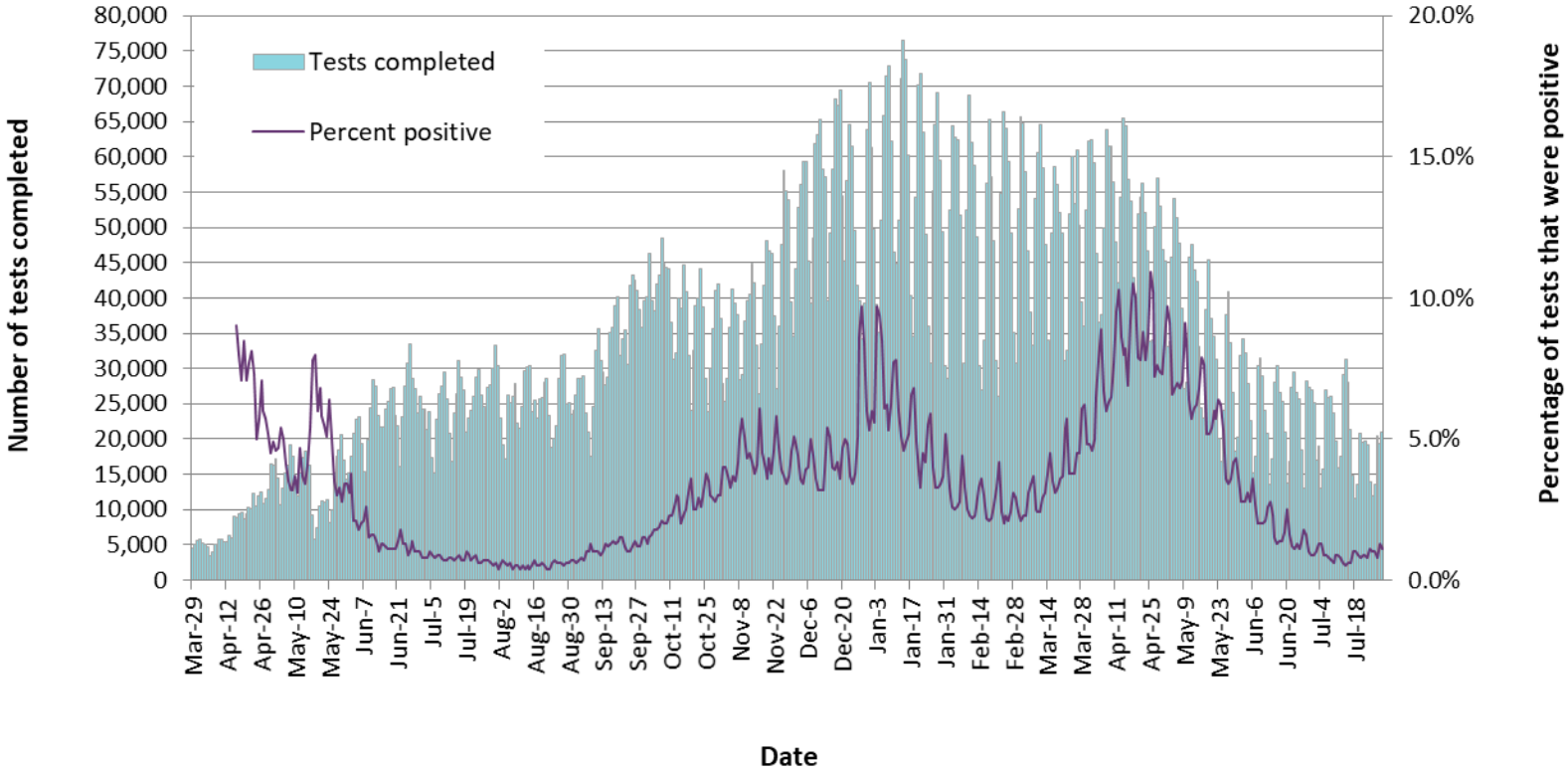
Data Source: CCM

Figure 2. Confirmed cases of COVID-19 by likely acquisition and approximation of symptom onset date: Ontario, January 15, 2020 to July 30, 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

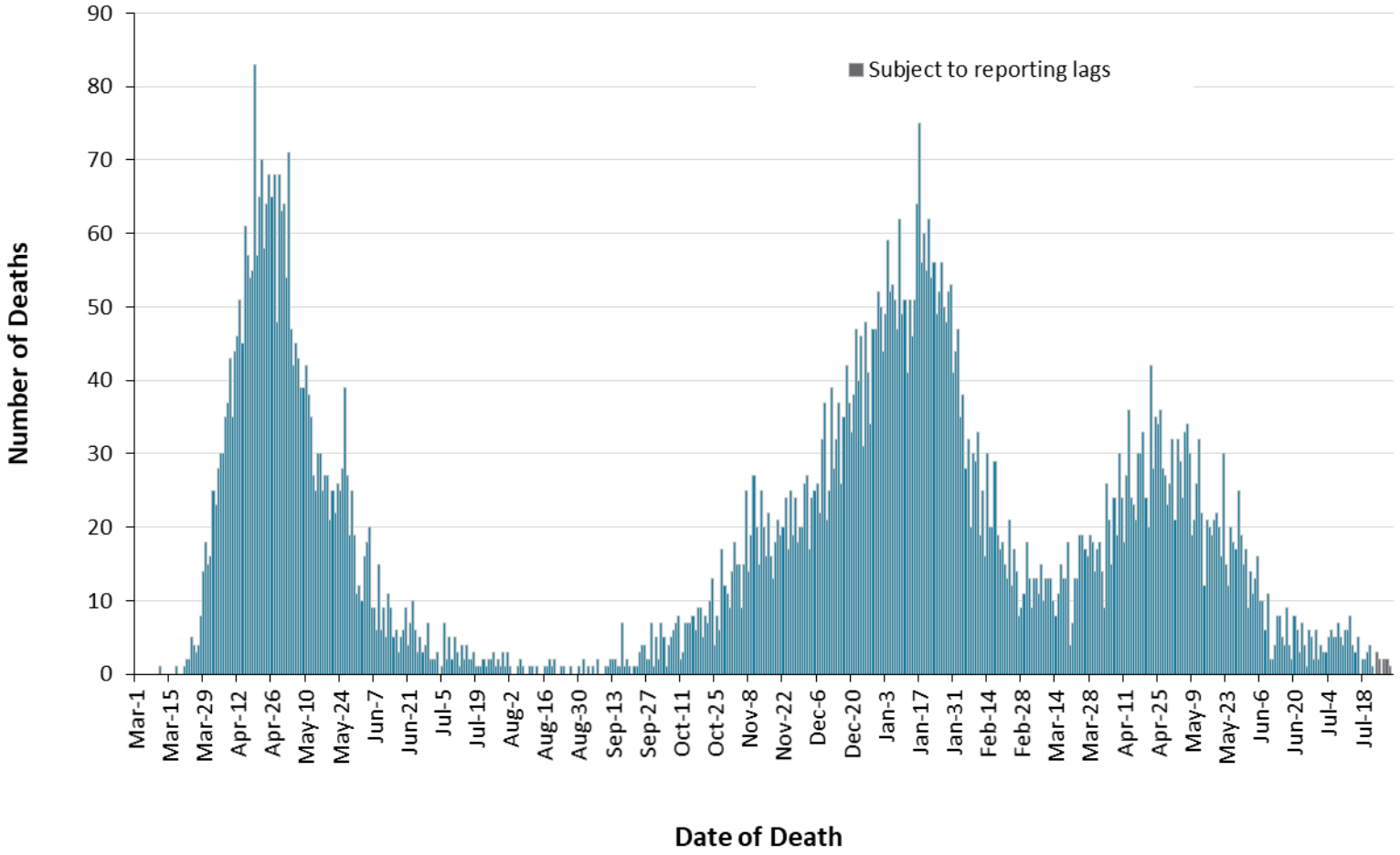
Figure 3. Number of COVID-19 tests completed and percent positivity: Ontario, March 29, 2020 to July 29, 2021



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 July 30, 2021



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 July 30, 2021	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	9,345	1.7%
Deaths reported in ages: 19 and under	4	<0.1%
Deaths reported in ages: 20-39	86	<0.1%
Deaths reported in ages: 40-59	605	0.4%
Deaths reported in ages: 60-79	2,999	4.1%
Deaths reported in ages: 80 and over	5,650	22.4%
Ever in ICU	5,466	1.0%
Ever hospitalized	28,283	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 5. Summary of recent confirmed cases of COVID-19 by public health unit and region: Ontario

Public Health Unit Name	Change in cases July 29, 2021	Change in cases July 30, 2021	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	0	0	1,100	1,254.6
Thunder Bay District Health Unit	-1	0	3,342	2,228.6
TOTAL NORTH WEST	-1	0	4,442	1,869.3
Algoma Public Health	0	0	405	353.9
North Bay Parry Sound District Health Unit	1	1	652	502.5
Porcupine Health Unit	3	3	2,145	2,570.7
Public Health Sudbury & Districts	-1	0	2,162	1,086.3
Timiskaming Health Unit	0	0	208	636.3
TOTAL NORTH EAST	3	4	5,572	996.2
Ottawa Public Health	9	5	27,801	2,636.0
Eastern Ontario Health Unit	1	1	4,631	2,218.9
Hastings Prince Edward Public Health	1	1	1,154	684.9
Kingston, Frontenac and Lennox & Addington Public Health	0	1	1,572	739.0
Leeds, Grenville & Lanark District Health Unit	-1	0	1,755	1,013.5
Renfrew County and District Health Unit	2	1	758	697.8
TOTAL EASTERN	12	9	37,671	1,955.5

Public Health Unit Name	Change in cases July 29, 2021	Change in cases July 30, 2021	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	9	22	25,422	3,568.5
Haliburton, Kawartha, Pine Ridge District Health Unit	3	1	2,251	1,191.4
Peel Public Health	24	26	110,018	6,850.6
Peterborough Public Health	4	3	1,640	1,108.3
Simcoe Muskoka District Health Unit	1	-4	12,458	2,077.8
York Region Public Health	13	33	52,862	4,312.5
TOTAL CENTRAL EAST	54	81	204,651	4,567.4
Toronto Public Health	62	53	166,016	5,320.4
TOTAL TORONTO	62	53	166,016	5,320.4
Chatham-Kent Public Health	1	2	1,917	1,803.1
Grey Bruce Health Unit	8	8	2,060	1,212.6
Huron Perth Public Health	0	2	1,973	1,411.7
Lambton Public Health	0	0	3,636	2,776.3
Middlesex-London Health Unit	8	11	12,767	2,515.5
Southwestern Public Health	4	4	3,952	1,868.6
Windsor-Essex County Health Unit	4	3	16,909	3,980.2
TOTAL SOUTH WEST	25	30	43,214	2,555.9
Brant County Health Unit	1	1	3,891	2,507.0
City of Hamilton Public Health Services	13	27	21,622	3,651.4

Public Health Unit Name	Change in cases July 29, 2021	Change in cases July 30, 2021	Cumulative case count	Cumulative rate per 100,000 population
Haldimand-Norfolk Health Unit	3	1	2,704	2,370.2
Halton Region Public Health	13	12	17,602	2,843.2
Niagara Region Public Health	2	6	16,346	3,459.6
Region of Waterloo Public Health and Emergency Services	35	28	18,380	3,145.3
Wellington-Dufferin-Guelph Public Health	4	6	8,325	2,669.1
TOTAL CENTRAL WEST	71	81	88,870	3,119.0
TOTAL ONTARIO	**226**	**258**	**550,436**	**3,703.0**

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 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 July 29, 2021	Change in outbreaks July 30, 2021	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	1	0	4	1,493
Retirement homes	0	0	0	874
Hospitals	1	-1	4	583

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

	Change in cases July 29, 2021	Change in cases July 30, 2021	Cumulative case count up to July 30, 2021
Variant of Concern			
Lineage B.1.1.7 (Alpha)*	28	2	145,538
Lineage B.1.351 (Beta)**	1	0	1,493
Lineage P.1 (Gamma) ***	0	0	5,161
Lineage B.1.617.2 (Delta)†	144	176	4,741
Mutations			
N501Y and E484K	5	2	4,301
N501Y (E484K unknown)‡	-9	5	12,932
E484K (N501Y negative)	-1	0	5,877
E484K (N501Y unknown)	1	-1	439
Mutation not detected§	119	51	14,886

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

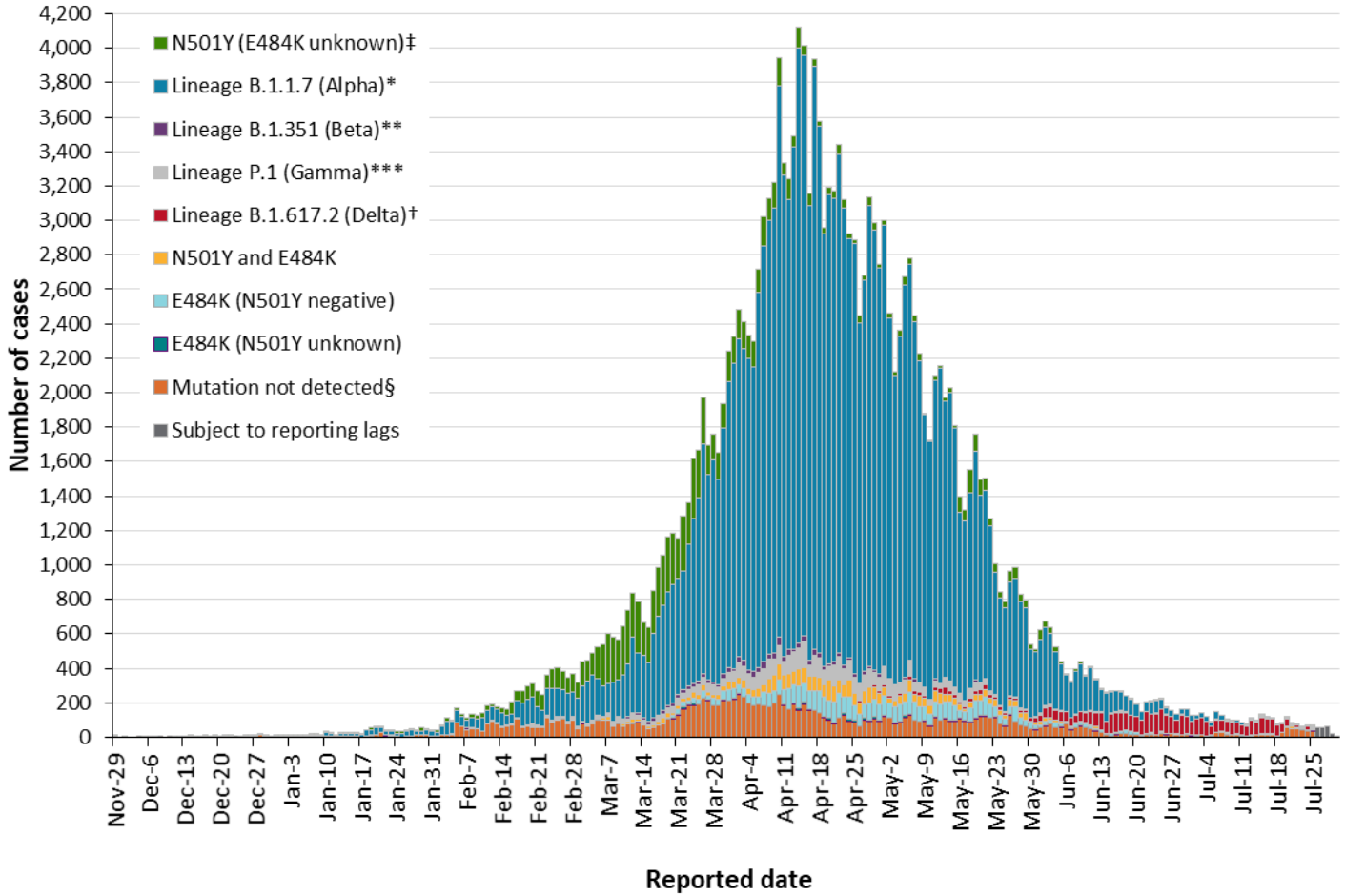
**Includes B.1.351 cases identified by genomic analysis and those presumed to be B.1.351 based on 'Mutation K417N+ and N501Y+ and E484K+' in the Investigation Subtype field

***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 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 July 30, 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 ≤ 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.

*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 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 **July 30, 2021 at 1 p.m**. for cases reported from February 1, 2021 onwards and as of **July 29, 2021 at 9 a.m.** for cases reported up to January 31, 2021.

- VOC data for this report were based on information successfully extracted from CCM for all PHUs by PHO as of **July 30, 2021 at 1 p.m.** for cases reported from April 1, 2021 onwards and as of **July 29, 2021 at 9 a.m.** for cases reported up to March 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 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.

- Data cleaning for older cases is incorporated on Mondays and may impact the case count published on Tuesdays

- 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.

- 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.

- 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-Co-V-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 a 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 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, P.1 and B.1.617.2)

- 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. 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, July 15 to July 27, 2021

Public Health Unit Name	July 15 to July 21	July 16 to July 22	July 17 to July 23	July 18 to July 24	July 19 to July 25	July 20 to July 26	July 21 to July 27	% change from July 15 - July 21 to July 21 - July 27
NORTH WEST								
Northwestern Health Unit	6.8	5.7	5.7	5.7	5.7	1.1	0.0	-100.0%
Thunder Bay District Health Unit	0.0	0.7	1.3	2.0	2.0	2.0	2.0	N/A
NORTH EAST								
Algoma Public Health	3.5	3.5	3.5	2.6	1.7	0.9	0.9	-74.3%
North Bay Parry Sound District Health Unit	19.3	15.4	13.9	10.0	8.5	6.2	3.9	-79.8%
Porcupine Health Unit	27.6	30.0	24.0	21.6	20.4	16.8	13.2	-52.2%
Public Health Sudbury & Districts	2.0	1.5	1.5	2.0	2.0	2.0	3.0	+50.0%
Timiskaming Health Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
EASTERN								
Ottawa Public Health	4.0	4.4	3.9	3.6	3.9	4.2	3.9	-2.5%
Eastern Ontario Health Unit	2.4	2.4	3.4	3.8	4.3	4.8	4.3	+79.2%
Hastings Prince Edward Public Health	4.2	3.0	2.4	2.4	2.4	3.0	3.0	-28.6%
Kingston, Frontenac and Lennox & Addington Public Health	0.5	0.0	0.0	0.0	0.0	0.0	0.0	-100.0%

Public Health Unit Name	July 15 to July 21	July 16 to July 22	July 17 to July 23	July 18 to July 24	July 19 to July 25	July 20 to July 26	July 21 to July 27	% change from July 15 - July 21 to July 21 - July 27
Leeds, Grenville & Lanark District Health Unit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
Renfrew County and District Health Unit	2.8	5.5	5.5	2.8	3.7	4.6	4.6	+64.3%
CENTRAL EAST								
Durham Region Health Department	7.4	7.7	8.3	8.1	8.7	8.8	8.3	+12.2%
Haliburton, Kawartha, Pine Ridge District Health Unit	6.9	9.0	9.0	12.2	12.7	12.7	13.2	+91.3%
Peel Public Health	6.8	7.1	7.7	7.8	8.1	8.0	8.7	+27.9%
Peterborough Public Health	2.7	2.7	2.7	3.4	2.7	2.0	4.1	+51.9%
Simcoe Muskoka District Health Unit	2.7	3.7	3.3	3.5	3.5	3.8	4.2	+55.6%
York Region Public Health	4.7	5.5	5.5	5.5	5.8	5.9	6.4	+36.2%
TORONTO								
Toronto Public Health	6.0	6.8	6.7	7.1	7.5	7.3	7.3	+21.7%
SOUTH WEST								
Chatham-Kent Public Health	3.8	8.5	9.4	13.2	15.0	15.0	16.0	+321.1%
Grey Bruce Health Unit	71.8	55.3	48.9	46.5	45.3	43.6	39.4	-45.1%
Huron Perth Public Health	11.4	9.3	10.0	7.2	6.4	6.4	6.4	-43.9%
Lambton Public Health	5.3	4.6	3.8	3.1	2.3	1.5	3.1	-41.5%
Middlesex-London Health Unit	9.7	9.7	10.0	9.9	9.7	9.7	8.5	-12.4%

Public Health Unit Name	July 15 to July 21	July 16 to July 22	July 17 to July 23	July 18 to July 24	July 19 to July 25	July 20 to July 26	July 21 to July 27	% change from July 15 - July 21 to July 21 - July 27
Southwestern Public Health	8.5	6.6	6.1	3.8	3.8	2.8	4.7	-44.7%
Windsor-Essex County Health Unit	3.5	4.2	4.9	5.4	5.9	6.6	6.6	+88.6%
CENTRAL WEST								
Brant County Health Unit	6.4	7.1	5.2	5.8	7.7	6.4	5.2	-18.8%
City of Hamilton Public Health Services	13.3	14.4	14.4	15.2	15.7	16.5	18.7	+40.6%
Haldimand-Norfolk Health Unit	5.3	6.1	7.9	7.0	5.3	6.1	5.3	0.0%
Halton Region Public Health	6.9	6.6	7.1	7.4	7.8	6.6	6.1	-11.6%
Niagara Region Public Health	5.1	4.2	4.7	4.9	4.4	5.1	4.4	-13.7%
Region of Waterloo Public Health and Emergency Services	23.3	22.8	20.7	17.8	15.6	16.1	16.8	-27.9%
Wellington-Dufferin-Guelph Public Health	8.0	5.5	5.5	6.1	5.8	7.1	5.5	-31.3%
TOTAL ONTARIO	**7.5**	**7.6**	**7.5**	**7.4**	**7.5**	**7.5**	**7.6**	**+1.3%**

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 July 30, 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	14	3	26
Brant County Health Unit	668	2	90	52	496
Chatham-Kent Public Health	129	5	16	8	100
City of Hamilton Public Health Services	5,052	66	104	242	2,077
Durham Region Health Department	9,518	65	267	129	1,206
Eastern Ontario Health Unit	652	46	19	3	267
Grey Bruce Health Unit	310	0	6	387	55
Haldimand-Norfolk Health Unit	368	3	22	26	405
Haliburton, Kawartha, Pine Ridge District Health Unit	443	0	23	48	308
Halton Region Public Health	5,086	30	166	188	606
Hastings Prince Edward Public Health	80	0	17	4	396
Huron Perth Public Health	276	0	12	50	29
Kingston, Frontenac and Lennox & Addington Public Health	455	2	35	8	129
Lambton Public Health	437	0	18	44	127
Leeds, Grenville & Lanark District Health Unit	295	19	0	0	40
Middlesex-London Health Unit	3,380	2	116	110	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	4,281	4	20	64	1,097
North Bay Parry Sound District Health Unit	235	28	2	23	14
Northwestern Health Unit	57	0	1	5	16
Ottawa Public Health	6,835	515	55	46	457
Peel Public Health	31,073	161	1,763	714	2,810
Peterborough Public Health	630	4	7	13	161
Porcupine Health Unit	1,096	2	0	41	8
Public Health Sudbury & Districts	691	13	10	8	268
Region of Waterloo Public Health and Emergency Services	3,121	21	96	1,247	256
Renfrew County and District Health Unit	232	8	7	2	12
Simcoe Muskoka District Health Unit	3,857	33	162	121	827
Southwestern Public Health	678	3	19	42	162
Thunder Bay District Health Unit	104	0	2	5	74
Timiskaming Health Unit	83	1	0	0	0
Toronto Public Health	45,562	375	1,520	763	7,921
Wellington-Dufferin-Guelph Public Health	2,078	1	80	176	175
Windsor-Essex County Health Unit	1,840	5	17	13	133

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‡
York Region Public Health	15,868	79	475	156	2,702
TOTAL ONTARIO	**145,538**	**1,493**	**5,161**	**4,741**	**23,549**

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 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 July 30, 2021. Toronto, ON: Queen's Printer for Ontario; 2021.

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Public Health Ontario

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