

Daily Epidemiologic Summary

COVID-19 in Ontario: January 15, 2020 to December 16, 2020

This report includes the most current information available from CCM and other case management systems (CCM plus) as of **December 16, 2020**.

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

A 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 148,967 confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
 - An increase of 2,432 confirmed cases (percent change of +13.7%)
 - An increase of 23 deaths (percent change of -46.5%)
 - An increase of 2,009 resolved cases (percent change of -1.7%)

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, 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 December 15	Change in cases December 16	Percentage change December 16 compared to December 15	Cumulative case count as of December 16
Total number of cases	2,139	2,432	+13.7%	148,967
Number of deaths	43	23	-46.5%	4,058
Number resolved	2,043	2,009	-1.7%	127,425

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.

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

	Change in cases December 15	Change in cases December 16	Cumulative case count as of December 16
Gender: Male	1,067	1,180	72,990
Gender: Female	1,044	1,224	75,062
Ages: 19 and under	352	355	18,918
Ages: 20-39	819	886	54,506
Ages: 40-59	618	674	42,678
Ages: 60-79	277	357	21,389
Ages: 80 and over	74	156	11,448

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 plus

Table 2. Summary of recent confirmed cases of COVID-19 in school aged children by age group, August 30 to December 16, 2020: Ontario

	Change in cases December 15	Change in cases December 16	Cumulative case count from August 30 to December 16	
Ages: 4 to 8	85	57	2,974	
Ages: 9 to 13	104	91	4,141	
Ages: 14 to 17	86	92	3,999	

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.

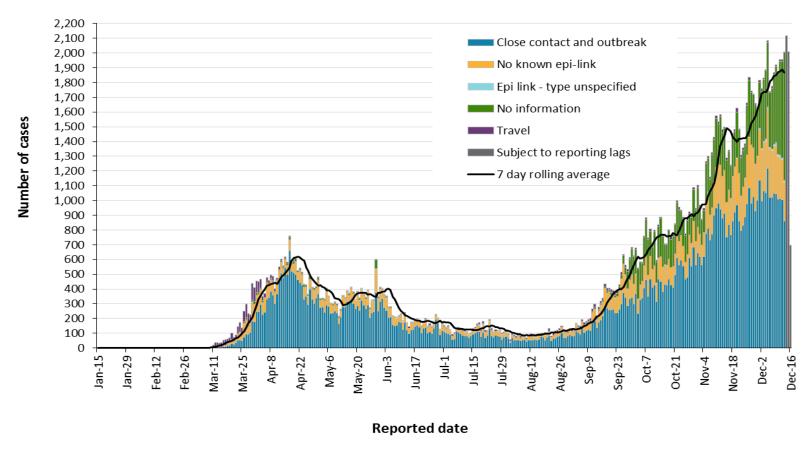
Table 3. Summary of recent confirmed cases of COVID-19 in long-term care homes: Ontario

Long-term care home cases	Change in cases December 15	Change in cases December 16	Cumulative case count as of December 16
Residents	84	76	9,538
Health care workers	31	33	3,750
Deaths among residents	22	13	2,526
Deaths among health care workers	0	0	8

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.

Time

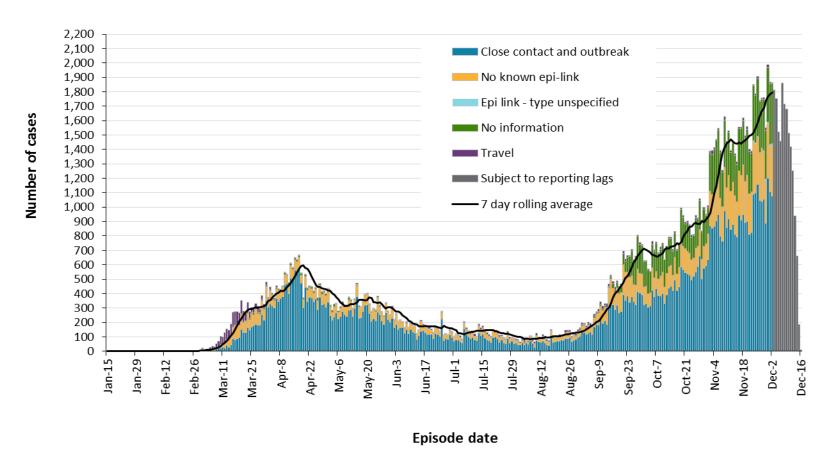
Figure 1. Confirmed cases of COVID-19 by likely acquisition and public health unit reported date: Ontario, January 15, 2020 to December 16, 2020



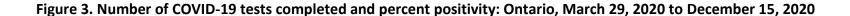
Data Source: CCM plus

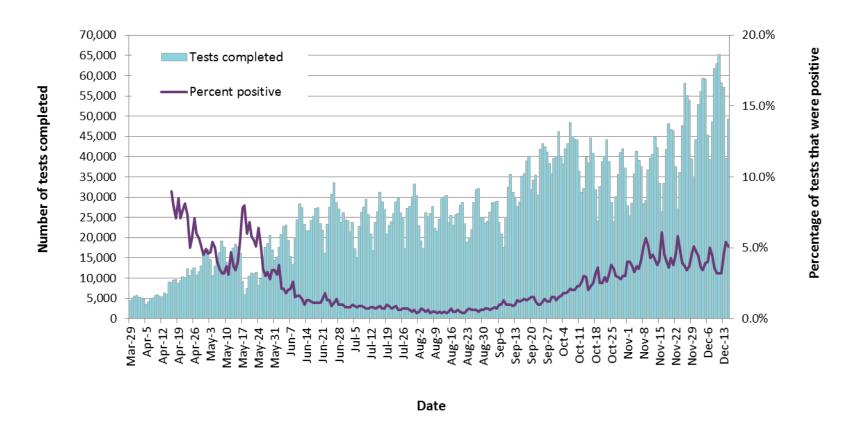
Note: The likely acquisition field was updated on December 16, 2020 to correct the classification of select cases into the category 'No information', which were previously reported as 'No known epi link'. This change mainly affects Toronto cases.

Figure 2. Confirmed cases of COVID-19 by likely acquisition and approximation of symptom onset date: Ontario, January 15, 2020 to December 16, 2020



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. The likely acquisition field was updated on December 16, 2020 to correct the classification of select cases into the category 'No information', which were previously reported as 'No known epi link'. This change mainly affects Toronto cases.



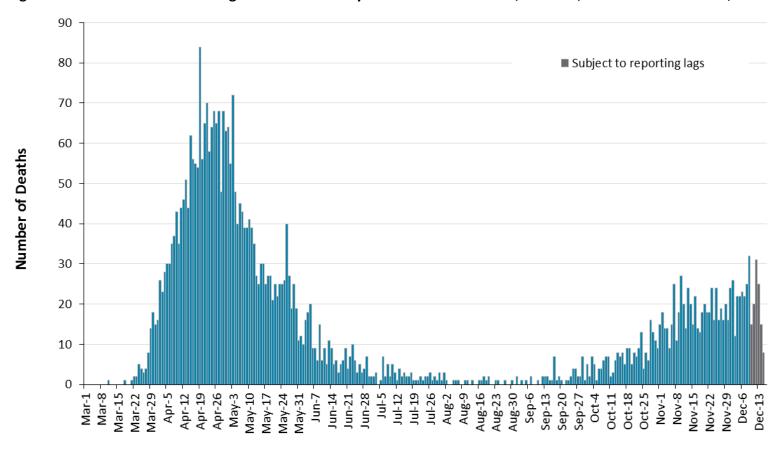


Note: The number of tests performed does not reflect the number of specimens or persons tested. More than one test may be performed per specimen or per person. As such, the percentage of tests that were positive does not necessarily translate to the number of specimens or persons testing positive.

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 16, 2020



Date of Death

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

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

	Cumulative case count as of December 16	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	4,058	2.7%
Deaths reported in ages: 19 and under	1	< 0.0%
Deaths reported in ages: 20-39	15	< 0.0%
Deaths reported in ages: 40-59	162	0.4%
Deaths reported in ages: 60-79	1,059	5.0%
Deaths reported in ages: 80 and over	2,821	24.6%
Ever in ICU	1,700	1.1%
Ever hospitalized	8,585	5.8%

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

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 December 15	Change in cases December 16	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	1	0	136	155.1
Thunder Bay District Health Unit	11	8	457	304.7
TOTAL NORTH WEST	12	8	593	249.5
Algoma Public Health	0	0	62	54.2
North Bay Parry Sound District Health Unit	2	0	96	74.0
Porcupine Health Unit	0	-1	117	140.2
Public Health Sudbury & Districts	-2	3	247	124.1
Timiskaming Health Unit	0	0	28	85.7
TOTAL NORTH EAST	0	2	550	98.3
Ottawa Public Health	36	70	9,208	873.1
Eastern Ontario Health Unit	10	19	1,138	545.3
Hastings Prince Edward Public Health	7	2	233	138.3
Kingston, Frontenac and Lennox & Addington Public Health	15	16	425	199.8
Leeds, Grenville & Lanark District Health Unit	4	6	610	352.3
Renfrew County and District Health Unit	0	0	203	186.9
TOTAL EASTERN	72	113	11,817	613.4

Public Health Unit Name	Change in cases December 15	Change in cases December 16	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	143	73	5,905	828.9
Haliburton, Kawartha, Pine Ridge District Health Unit	3	7	425	224.9
Peel Public Health	528	434	33,190	2,066.7
Peterborough Public Health	3	7	257	173.7
Simcoe Muskoka District Health Unit	46	47	2,825	471.2
York Region Public Health	148	209	13,867	1,131.3
TOTAL CENTRAL EAST	871	777	56,469	1,260.3
Toronto Public Health	780	737	49,388	1,582.8
TOTAL TORONTO	780	737	49,388	1,582.8
Chatham-Kent Public Health	4	6	563	529.5
Grey Bruce Health Unit	0	9	390	229.6
Huron Perth Public Health	13	17	502	359.2
Lambton Public Health	0	11	466	355.8
Middlesex-London Health Unit	12	63	2,205	434.5
Southwestern Public Health	11	35	826	390.5
Windsor-Essex County Health Unit	111	190	5,175	1,218.1
TOTAL SOUTH WEST	151	331	10,127	599.0
Brant County Health Unit	7	26	788	507.7
City of Hamilton Public Health Services	47	142	4,548	768.0

Public Health Unit Name	Change in cases December 15	Change in cases December 16	Cumulative case count	Cumulative rate per 100,000 population
Haldimand-Norfolk Health Unit	8	5	734	643.4
Halton Region Public Health	55	104	4,534	732.4
Niagara Region Public Health	51	45	2,752	582.5
Region of Waterloo Public Health and Emergency Services	52	77	4,693	803.1
Wellington-Dufferin-Guelph Public Health	33	65	1,974	632.9
TOTAL CENTRAL WEST	253	464	20,023	702.7
TOTAL ONTARIO	2,139	2,432	148,967	1,002.2

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

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 December 15	Change in outbreaks December 16	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	10	2	143	802
Retirement homes	7	4	86	418
Hospitals	2	2	42	203

Note: Ongoing outbreaks include all outbreaks that are 'Open' in CCM plus 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/iPHIS 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.

Technical Notes

Data Sources

- The data for this report were based on:
 - Information extracted from the Ontario Ministry of Health (Ministry) integrated Public Health Information System (iPHIS) database for Toronto Public Health as of **December 16**, 2020 at 3 p.m.
 - Information successfully uploaded to the Ministry from Local Systems: Toronto Public Health (Coronavirus Rapid Entry System) CORES as of **December 16, 2020 at 2 p.m.**
 - Information successfully extracted from the Public Health Case and Contact Management Solution (CCM) for all other PHUs by PHO as of **December 16, 2020 at 1 p.m.**
- CCM and CCM plus (which includes CCM, iPHIS, and CORES) are dynamic disease reporting
 systems, which allow ongoing updates to data previously entered. As a result, data extracted
 from CCM and the Local Systems 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 plus. As a
 result, all counts will be subject to varying degrees of underreporting due to a variety of factors,
 such as disease awareness and medical care seeking behaviours, which may depend on severity
 of illness, clinical practice, changes in laboratory testing, and reporting behaviours.
- Lags in CCM plus 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 <u>COVID-19 case</u>
 <u>definition</u> are included in the report counts from CCM plus. This includes persons with a positive detection of serum/plasma immunoglobulin G (IgG) antibodies to SARS-CoV-2, which was added to the confirmed case definition on August 6, 2020.
- The number of tests performed does not reflect the number of specimens or persons tested.
 More than one test may be performed per specimen or per person. As such, the percentage of tests that were positive does not necessarily translate to the number of specimens or persons testing positive.
- Reported date is the date the case was reported to the public health unit.

- Case episode date is based on an estimate of the best date of disease onset. This date is calculated based on either the date of symptom onset, specimen collection/test date, or the date reported to the public health unit.
- Resolved cases are determined only for COVID-19 cases that have not died. Cases that have died are considered fatal and not resolved. The following cases are classified as resolved:
 - Cases that are reported as 'recovered' in CCM
 - Cases that are not hospitalized and are 14 days past their episode date
 - Cases that are currently hospitalized (no hospital end date entered) and have a status of 'closed' in CCM (indicating public health unit follow-up is complete) and are 14 days past their symptom onset date or specimen collection date
- Hospitalization includes all cases for which a hospital admission date was reported at the time of
 data extraction. It includes cases that have been discharged from hospital as well as cases that
 are currently hospitalized. Emergency room visits are not included in the number of reported
 hospitalizations.
- ICU admission includes all cases for which an ICU admission date was reported at the time of data extraction. It is a subset of the count of hospitalized cases. It includes cases that have been treated or that are currently being treated in an ICU.
- Orientation of case counts by geography is based on the diagnosing health unit (DHU). DHU
 refers to the case's public health unit of residence at the time of illness onset and not
 necessarily the location of exposure. Cases for which the DHU was reported as MOH (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 and local systems. 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 plus. 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 plus 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 includes cases that are
 counted once across all systems from which the case data are obtained. Duplicate records may
 exist if these records were not identified and resolved prior to data upload to the Ministry.
- Ongoing outbreaks include all outbreaks that are 'Open' in CCM plus 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/iPHIS 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.

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, December 1, 2020 to December 13, 2020

Public Health Unit Name	Dec 1 to Dec 7	Dec 2 to Dec 8	Dec 3 to Dec 9	Dec 4 to Dec 10	Dec 5 to Dec 11	Dec 6 to Dec 12	Dec 7 to Dec 13	% change from Dec 1-7 to Dec 7-13
NORTH WEST								
Northwestern Health Unit	11.4	12.5	13.7	10.3	9.1	6.8	5.7	-50.0%
Thunder Bay District Health Unit	42.0	46.7	46.0	44.0	45.3	40.7	40.0	-4.8%
NORTH EAST								
Algoma Public Health	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.0%
North Bay Parry Sound District Health Unit	8.5	8.5	5.4	3.9	5.4	4.6	4.6	-45.9%
Porcupine Health Unit	12.0	10.8	7.2	1.2	0.0	1.2	2.4	-80.0%
Public Health Sudbury & Districts	3.5	5.0	5.0	4.5	4.5	5.0	3.5	0.0%
Timiskaming Health Unit	12.2	18.4	21.4	24.5	24.5	21.4	21.4	+75.4%
EASTERN								
Ottawa Public Health	27.3	29.9	29.9	29.1	30.2	30.2	29.8	+9.2%
Eastern Ontario Health Unit	72.8	67.1	69.0	64.7	60.4	64.7	50.3	-30.9%

Public Health Unit Name	Dec 1 to Dec 7	Dec 2 to Dec 8	Dec 3 to Dec 9	Dec 4 to Dec 10	Dec 5 to Dec 11	Dec 6 to Dec 12	Dec 7 to Dec 13	% change from Dec 1-7 to Dec 7-13
Hastings Prince Edward Public Health	20.2	21.4	24.3	27.3	27.9	28.5	29.7	+47.0%
Kingston, Frontenac and Lennox & Addington Public Health	24.4	29.6	32.0	35.3	41.4	40.9	40.9	+67.6%
Leeds, Grenville & Lanark District Health Unit	27.7	31.8	36.4	43.3	41.0	41.0	39.8	+43.7%
Renfrew County and District Health Unit	33.1	33.1	48.8	51.6	38.7	41.4	37.7	+13.9%
CENTRAL EAST								
Durham Region Health Department	89.3	83.4	86.7	83.7	88.2	78.5	76.2	-14.7%
Haliburton, Kawartha, Pine Ridge District Health Unit	19.6	16.4	20.1	24.3	28.1	31.2	33.9	+73.0%
Peel Public Health	205.4	198.3	198.0	195.1	194.5	184.4	183.4	-10.7%
Peterborough Public Health	10.1	12.2	10.8	10.8	10.8	12.2	14.2	+40.6%

Public Health Unit Name	Dec 1 to Dec 7	Dec 2 to Dec 8	Dec 3 to Dec 9	Dec 4 to Dec 10	Dec 5 to Dec 11	Dec 6 to Dec 12	Dec 7 to Dec 13	% change from Dec 1-7 to Dec 7-13
Simcoe Muskoka District Health Unit	52.0	56.5	55.9	55.7	54.7	53.9	49.4	-5.0%
York Region Public Health	107.9	104.2	109.2	110.3	106.3	102.1	102.4	-5.1%
TORONTO								
Toronto Public Health	121.5	124.8	123.0	122.6	120.9	120.9	124.3	+2.3%
SOUTH WEST								
Chatham- Kent Public Health	27.3	16.9	21.6	20.7	21.6	22.6	20.7	-24.2%
Grey Bruce Health Unit	15.9	18.8	18.8	18.2	18.2	20.0	21.2	+33.3%
Huron Perth Public Health	46.5	43.6	40.1	35.8	44.4	47.9	45.1	-3.0%
Lambton Public Health	17.6	15.3	19.1	19.1	15.3	16.0	18.3	+4.0%
Middlesex- London Health Unit	45.7	48.7	48.3	47.5	50.8	51.8	53.4	+16.8%
Southwestern Public Health	43.5	38.3	43.5	49.2	50.1	57.2	64.3	+47.8%
Windsor- Essex County Health Unit	107.1	124.8	133.5	137.0	144.8	148.8	171.8	+60.4%
CENTRAL WEST								

Public Health Unit Name	Dec 1 to Dec 7	Dec 2 to Dec 8	Dec 3 to Dec 9	Dec 4 to Dec 10	Dec 5 to Dec 11	Dec 6 to Dec 12	Dec 7 to Dec 13	% change from Dec 1-7 to Dec 7-13
Brant County Health Unit	31.6	33.5	37.4	41.9	46.4	54.8	65.1	+106.0%
City of Hamilton Public Health Services	84.8	86.1	88.0	92.2	93.4	103.3	113.1	+33.4%
Haldimand- Norfolk Health Unit	25.4	32.4	36.8	45.6	46.5	46.5	46.5	+83.1%
Halton Region Public Health	70.7	69.8	71.2	68.0	70.7	68.8	71.2	+0.7%
Niagara Region Public Health	36.2	39.2	40.4	48.9	55.0	60.1	63.9	+76.5%
Region of Waterloo Public Health and Emergency Services	75.3	69.1	68.1	72.6	77.7	76.8	80.4	+6.8%
Wellington- Dufferin- Guelph Public Health	70.2	77.6	85.9	82.1	80.5	87.5	88.5	+26.1%
TOTAL ONTARIO	86.8	87.1	88.2	88.4	88.9	88.0	89.8	+3.5%

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

Disclaimer

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For Further Information

For more information, email cd@oahpp.ca.

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