

Daily Epidemiologic Summary

COVID-19 in Ontario: January 15, 2020 to December 25, 2020

This report includes the most current information available from CCM and other case management systems (CCM plus) as of **December 25, 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 169,411 confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
 - An increase of 2,142 confirmed cases (percent change of -0.8%)
 - An increase of 38 deaths (percent change of -11.6%)
 - An increase of 1,913 resolved cases (percent change of -14.5%)

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

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

Case Characteristics

	Change in cases December 24	Change in cases December 25	Percentage change December 25 compared to December 24	Cumulative case count as of December 25
Total number of cases	2,159	2,142	-0.8%	169,411
Number of deaths	43	38	-11.6%	4,359
Number resolved	2,237	1,913	-14.5%	145,173

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

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

	Change in cases December 24	Change in cases December 25	Cumulative case count as of December 25
Gender: Male	1,039	1,006	83,025
Gender: Female	1,092	1,116	85,314
Ages: 19 and under	283	270	21,812
Ages: 20-39	764	738	61,847
Ages: 40-59	668	633	48,630
Ages: 60-79	314	358	24,381
Ages: 80 and over	128	141	12,699

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

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

Data Source: CCM plus

Table 2. Summary of recent confirmed cases of COVID-19 in school aged children by agegroup, August 30 to December 25, 2020: Ontario

	Change in cases December 24	Change in cases December 25	Cumulative case count from August 30 to December 25
Ages: 4 to 8	53	49	3,509
Ages: 9 to 13	78	61	4,861
Ages: 14 to 17	60	64	4,727

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.

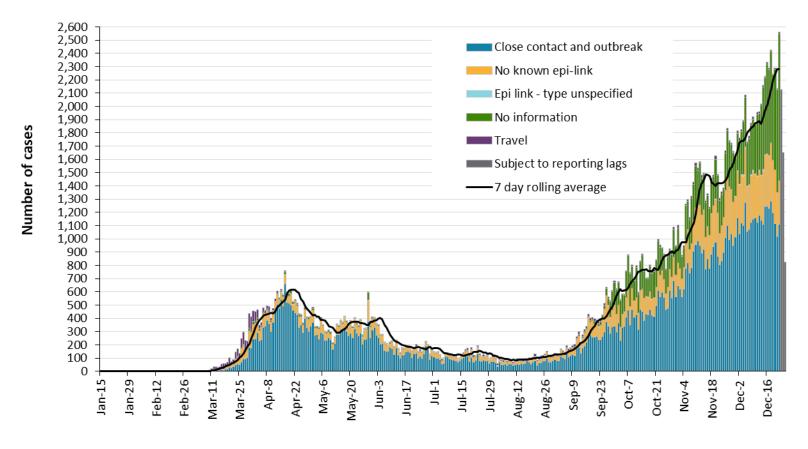
Long-term care home cases	Change in cases December 24	Change in cases December 25	Cumulative case count as of December 25
Residents	97	80	10,492
Health care workers	48	19	4,135
Deaths among residents	22	17	2,682
Deaths among health care workers	0	0	8

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

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

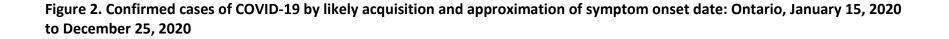
Time

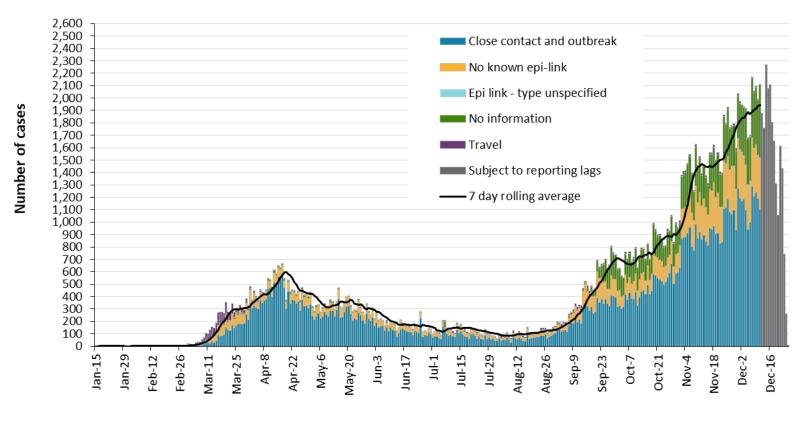
Figure 1. Confirmed cases of COVID-19 by likely acquisition and public health unit reported date: Ontario, January 15, 2020 to December 25, 2020



Reported date

Data Source: CCM plus





Episode date

Note: Not all cases may have an episode date and those without one are not included in the figure. Episode date is defined and available in the technical notes.

Data Source: CCM plus

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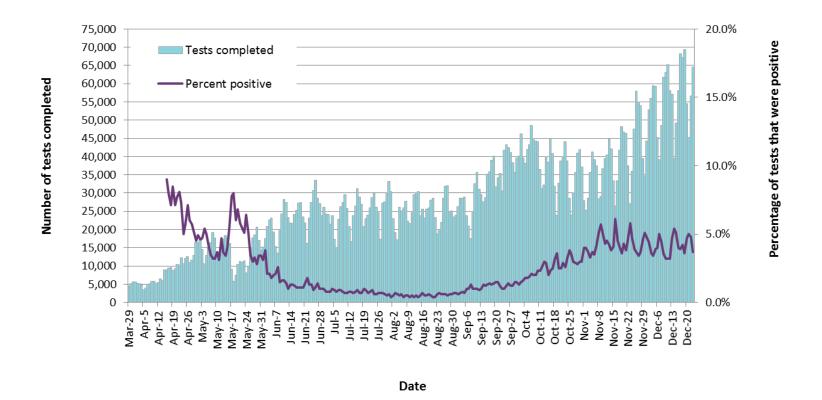


Figure 3. Number of COVID-19 tests completed and percent positivity: Ontario, March 29, 2020 to December 23*, 2020

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.

*The daily number of tests completed and percent positivity are not available for December 24, 2020.

Data Source: The Provincial COVID-19 Diagnostics Network, data reported by member microbiology laboratories.

Severity

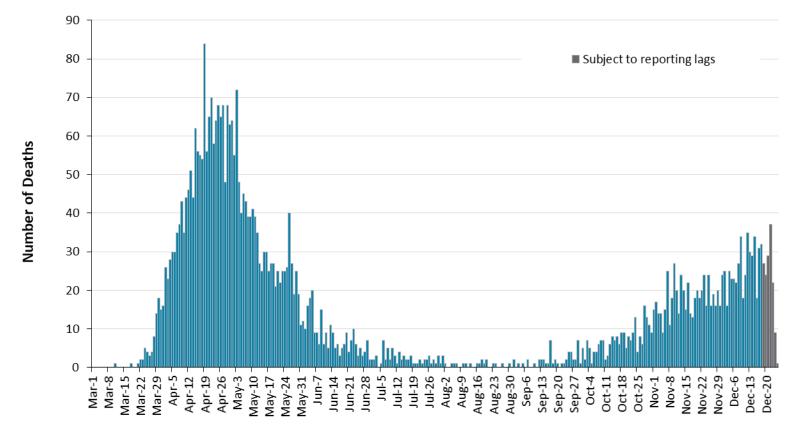
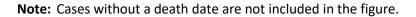


Figure 4. Confirmed deaths among COVID-19 cases by date of death: Ontario, March 1, 2020 to December 25, 2020

Date of Death



	Cumulative case count as of December 25	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	4,359	2.6%
Deaths reported in ages: 19 and under	1	<0.1%
Deaths reported in ages: 20-39	18	<0.1%
Deaths reported in ages: 40-59	172	0.4%
Deaths reported in ages: 60-79	1,154	4.7%
Deaths reported in ages: 80 and over	3,013	23.7%
Ever in ICU	1,841	1.1%
Ever hospitalized	9,309	5.5%

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

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

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 24	Change in cases December 25	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	2	5	153	174.5
Thunder Bay District Health Unit	10	4	558	372.1
TOTAL NORTH WEST	12	9	711	299.2
Algoma Public Health	1	0	64	55.9
North Bay Parry Sound District Health Unit	4	8	124	95.6
Porcupine Health Unit	0	0	127	152.2
Public Health Sudbury & Districts	0	2	261	131.1
Timiskaming Health Unit	3	5	56	171.3
TOTAL NORTH EAST	8	15	632	113.0
Ottawa Public Health	54	74	9,650	915.0
Eastern Ontario Health Unit	17	18	1,273	609.9
Hastings Prince Edward Public Health	2	0	261	154.9
Kingston, Frontenac and Lennox & Addington Public Health	7	13	505	237.4
Leeds, Grenville & Lanark District Health Unit	5	2	647	373.6
Renfrew County and District Health Unit	1	5	227	209.0
TOTAL EASTERN	86	112	12,563	652.2

Public Health Unit Name	Change in cases December 24	Change in cases December 25	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	93	67	6,745	946.8
Haliburton, Kawartha, Pine Ridge District Health Unit	7	6	484	256.2
Peel Public Health	385	344	37,130	2312.0
Peterborough Public Health	4	8	297	200.7
Simcoe Muskoka District Health Unit	51	52	3,309	551.9
York Region Public Health	213	262	16,001	1305.4
TOTAL CENTRAL EAST	753	739	63,966	1427.6
Toronto Public Health	616	541	54,909	1759.7
TOTAL TORONTO	616	541	54,909	1759.7
Chatham-Kent Public Health	9	10	618	581.3
Grey Bruce Health Unit	11	1	431	253.7
Huron Perth Public Health	16	28	611	437.2
Lambton Public Health	2	20	596	455.1
Middlesex-London Health Unit	44	50	2,798	551.3
Southwestern Public Health	31	24	1,098	519.2
Windsor-Essex County Health Unit	135	131	6,686	1573.8
TOTAL SOUTH WEST	248	264	12,838	759.3
Brant County Health Unit	3	17	889	572.8
City of Hamilton Public Health Services	77	136	5,475	924.6

Public Health Unit Name	Change in casesChange in casesDecember 24December 25		Cumulative case count	Cumulative rate per 100,000 population
Haldimand-Norfolk Health Unit	9	12	833	730.2
Halton Region Public Health	96	93	5,232	845.1
Niagara Region Public Health	78	93	3,494	739.5
Region of Waterloo Public Health and Emergency Services	105	67	5,480	937.8
Wellington-Dufferin-Guelph Public Health	68	44	2,389	765.9
TOTAL CENTRAL WEST	436	462	23,792	835.0
TOTAL ONTARIO	2,159	2,142	169,411	1139.7

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 24	Change in outbreaks December 25	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	4	10	181	879
Retirement homes	3	3	99	454
Hospitals	4	2	53	231

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 25, 2020 at 1 p.m.
 - Information successfully uploaded to the Ministry from Local Systems: Toronto Public Health (Coronavirus Rapid Entry System) CORES as of **December 25, 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 25, 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 10, 2020 to December 22, 2020

Public Health Unit Name	Dec 10 to Dec 16	Dec 11 to Dec 17	Dec 12 to Dec 18	Dec 13 to Dec 19	Dec 14 to Dec 20	Dec 15 to Dec 21	Dec 16 to Dec 22	% change from Dec 10-16 to Dec 16- 22
NORTH WEST								
Northwestern Health Unit	3.4	3.4	5.7	5.7	5.7	10.3	11.4	+235.3%
Thunder Bay District Health Unit	32.0	37.3	40.0	44.7	44.0	48.7	58.0	+81.3%
NORTH EAST								
Algoma Public Health	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.0%
North Bay Parry Sound District Health Unit	9.2	10.8	12.3	12.3	12.3	12.3	13.1	+42.4%
Porcupine Health Unit	2.4	3.6	3.6	4.8	3.6	8.4	10.8	+350.0%
Public Health Sudbury & Districts	3.5	4.5	4.0	4.0	4.0	5.0	5.5	+57.1%
Timiskaming Health Unit	15.3	15.3	27.5	33.7	36.7	45.9	55.1	+260.1%
EASTERN								
Ottawa Public Health	30.2	30.8	28.2	27.4	26.9	27.1	30.2	0.0%

Public Health Unit Name	Dec 10 to Dec 16	Dec 11 to Dec 17	Dec 12 to Dec 18	Dec 13 to Dec 19	Dec 14 to Dec 20	Dec 15 to Dec 21	Dec 16 to Dec 22	% change from Dec 10-16 to Dec 16- 22
Eastern Ontario Health Unit	58.9	55.6	50.8	44.1	40.7	40.7	45.0	-23.6%
Hastings Prince Edward Public Health	22.0	14.2	16.0	14.8	16.6	14.8	15.4	-30.0%
Kingston, Frontenac and Lennox & Addington Public Health	43.7	40.9	37.6	35.7	35.7	32.4	28.7	-34.3%
Leeds, Grenville & Lanark District Health Unit	31.8	26.6	24.8	21.4	20.8	19.6	17.9	-43.7%
Renfrew County and District Health Unit	17.5	18.4	15.6	15.6	13.8	16.6	16.6	-5.1%
CENTRAL EAST								
Durham Region Health Department	87.5	89.4	92.2	89.0	93.5	97.6	97.1	+11.0%
Haliburton, Kawartha, Pine Ridge District Health Unit	30.2	28.1	25.4	24.3	23.8	24.3	23.3	-22.8%
Peel Public Health	194.5	194.7	194.8	201.3	208.6	195.0	190.7	-2.0%

Public Health Unit Name	Dec 10 to Dec 16	Dec 11 to Dec 17	Dec 12 to Dec 18	Dec 13 to Dec 19	Dec 14 to Dec 20	Dec 15 to Dec 21	Dec 16 to Dec 22	% change from Dec 10-16 to Dec 16- 22
Peterborough Public Health	15.5	15.5	16.9	16.2	16.2	19.6	20.3	+31.0%
Simcoe Muskoka District Health Unit	52.4	55.5	57.0	59.5	60.9	62.4	63.4	+21.0%
York Region Public Health	101.6	104.2	115.6	120.8	119.5	124.3	128.0	+26.0%
TORONTO								
Toronto Public Health	142.2	145.2	148.0	147.2	150.0	145.2	149.9	+5.4%
SOUTH WEST								
Chatham- Kent Public Health	25.4	31.0	25.4	32.0	31.0	32.9	38.6	+52.0%
Grey Bruce Health Unit	15.9	15.9	15.9	17.7	17.7	18.8	21.2	+33.3%
Huron Perth Public Health	60.1	59.4	53.7	51.5	54.4	58.7	52.2	-13.1%
Lambton Public Health	24.4	35.9	41.2	55.7	57.3	64.9	82.5	+238.1%
Middlesex- London Health Unit	54.8	62.1	70.3	76.3	83.7	88.9	100.3	+83.0%
Southwestern Public Health	79.9	80.4	81.3	78.0	77.1	93.6	100.7	+26.0%
Windsor- Essex County Health Unit	213.7	243.4	250.7	267.6	274.2	285.8	288.4	+35.0%

Public Health Unit Name	Dec 10 to Dec 16	Dec 11 to Dec 17	Dec 12 to Dec 18	Dec 13 to Dec 19	Dec 14 to Dec 20	Dec 15 to Dec 21	Dec 16 to Dec 22	% change from Dec 10-16 to Dec 16- 22
CENTRAL WEST								
Brant County Health Unit	70.9	77.3	75.4	69.6	59.3	59.3	59.9	-15.5%
City of Hamilton Public Health Services	115.2	126.0	127.0	121.9	120.1	122.8	127.3	+10.5%
Haldimand- Norfolk Health Unit	44.7	41.2	47.3	60.5	60.5	63.1	61.4	+37.4%
Halton Region Public Health	71.9	74.5	77.5	84.0	85.4	86.7	84.8	+17.9%
Niagara Region Public Health	76.4	79.2	101.6	107.3	109.8	112.8	118.9	+55.6%
Region of Waterloo Public Health and Emergency Services	87.1	87.1	92.2	98.2	98.7	106.1	106.3	+22.0%
Wellington- Dufferin- Guelph Public Health	95.2	94.6	101.0	93.6	91.4	95.5	96.8	+1.7%
TOTAL ONTARIO	97.7	100.6	103.7	105.6	107.5	107.3	109.6	+12.2%

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

Disclaimer

This document was developed by Public Health Ontario (PHO). PHO provides scientific and technical advice to Ontario's government, public health organizations and health care providers. PHO's work is guided by the current best available evidence at the time of publication.

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

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