

Daily Epidemiologic Summary

COVID-19 in Ontario: January 15, 2020 to December 29, 2020

This report includes the most current information available from CCM and other case management systems (CCM plus) as of **December 29, 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 178,831 confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
 - An increase of 2,923 confirmed cases (percent change of +14.5%)
 - An increase of 19 deaths (percent change of -53.7%)
 - An increase of 2,237 resolved cases (percent change of +0.2%)

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 28	Change in cases December 29	Percentage change December 29 compared to December 28	Cumulative case count as of December 29
Total number of cases	2,553	2,923	+14.5%	178,831
Number of deaths	41	19	-53.7%	4,474
Number resolved	2,233	2,237	+0.2%	153,799

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 28	Change in cases December 29	Cumulative case count as of December 29
Gender: Male	1,242	1,441	87,604
Gender: Female	1,308	1,456	90,099
Ages: 19 and under	341	386	23,097
Ages: 20-39	855	1,039	65,133
Ages: 40-59	778	885	51,454
Ages: 60-79	423	458	25,818
Ages: 80 and over	154	159	13,293

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 29, 2020: Ontario

	Change in cases December 28	Change in cases December 29	Cumulative case count from August 30 to December 29
Ages: 4 to 8	48	63	3,708
Ages: 9 to 13	89	109	5,193
Ages: 14 to 17	98	96	5,076

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.

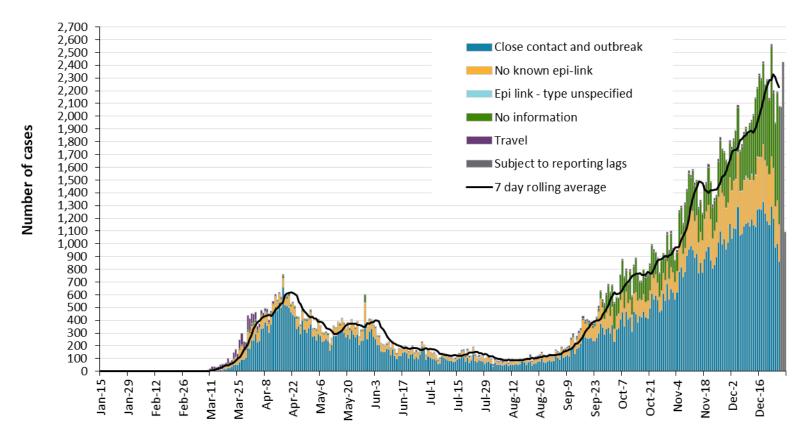
Long-term care home cases	Change in cases December 28	-	
Residents	78	105	10,830
Health care workers	33	28	4,256
Deaths among residents	18	12	2,738
Deaths among health care workers	0	0	8

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

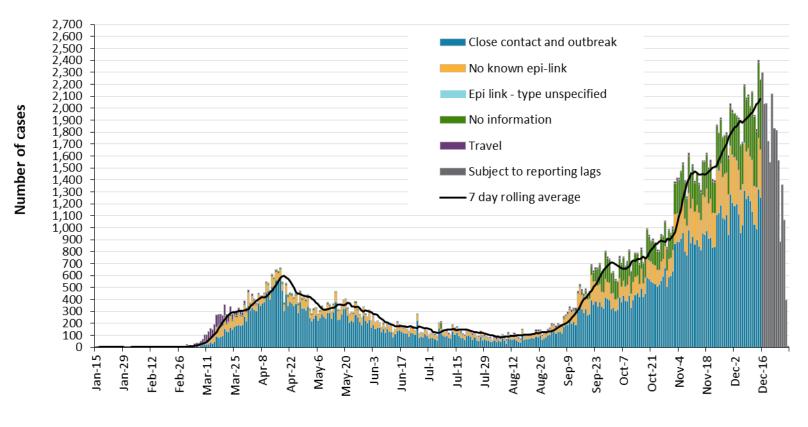
Figure 1. Confirmed cases of COVID-19 by likely acquisition and public health unit reported date: Ontario, January 15, 2020 to December 29, 2020



Reported date

Data Source: CCM plus

Figure 2. Confirmed cases of COVID-19 by likely acquisition and approximation of symptom onset date: Ontario, January 15, 2020 to December 29, 2020

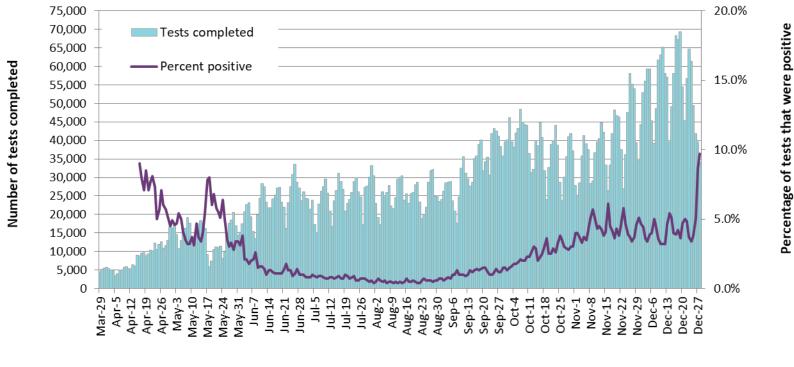


Episode date

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

COVID-19 in Ontario: January 15, 2020 to December 29, 2020





Date

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

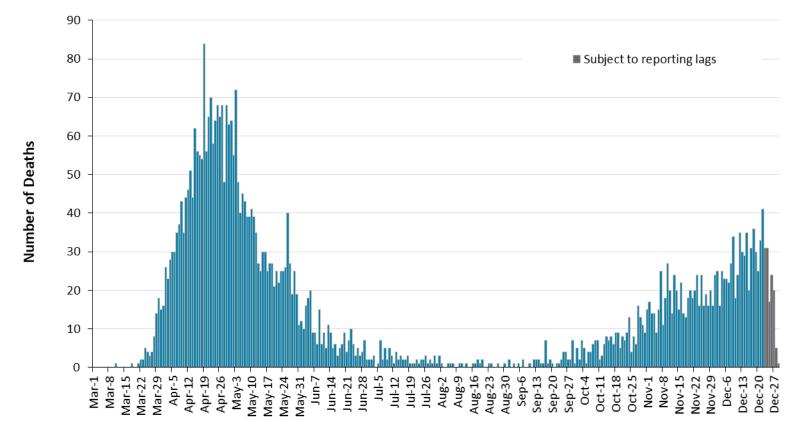
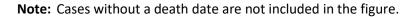


Figure 4. Confirmed deaths among COVID-19 cases by date of death: Ontario, March 1, 2020 to December 29, 2020

Date of Death



	Cumulative case count as of December 29	Percentage of all cases
Cumulative deaths reported (please note there may be a reporting delay for deaths)	4,474	2.5%
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	175	0.3%
Deaths reported in ages: 60-79	1,187	4.6%
Deaths reported in ages: 80 and over	3,092	23.3%
Ever in ICU	1,891	1.1%
Ever hospitalized	9,600	5.4%

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 28	Change in cases December 29	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	1	1	163	185.9
Thunder Bay District Health Unit	9	5	579	386.1
TOTAL NORTH WEST	10	6	742	312.2
Algoma Public Health	0	0	65	56.8
North Bay Parry Sound District Health Unit	0	6	126	97.1
Porcupine Health Unit	1	0	128	153.4
Public Health Sudbury & Districts	1	2	266	133.7
Timiskaming Health Unit	1	0	65	198.8
TOTAL NORTH EAST	3	8	650	116.2
Ottawa Public Health	65	68	9,873	936.1
Eastern Ontario Health Unit	16	16	1,336	640.1
Hastings Prince Edward Public Health	-1	5	271	160.8
Kingston, Frontenac and Lennox & Addington Public Health	3	4	521	244.9
Leeds, Grenville & Lanark District Health Unit	5	12	667	385.2
Renfrew County and District Health Unit	0	4	232	213.6
TOTAL EASTERN	88	109	12,900	669.6

Public Health Unit Name	Change in cases December 28	Change in cases December 29	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	108	158	7,141	1002.4
Haliburton, Kawartha, Pine Ridge District Health Unit	1	8	507	268.3
Peel Public Health	496	441	38,873	2420.6
Peterborough Public Health	0	3	323	218.3
Simcoe Muskoka District Health Unit	34	65	3,505	584.6
York Region Public Health	142	408	16,916	1380.0
TOTAL CENTRAL EAST	781	1083	67,265	1501.2
Toronto Public Health	895	998	57,786	1851.9
TOTAL TORONTO	895	998	57,786	1851.9
Chatham-Kent Public Health	19	21	673	633.0
Grey Bruce Health Unit	3	1	444	261.4
Huron Perth Public Health	8	17	662	473.7
Lambton Public Health	16	40	724	552.8
Middlesex-London Health Unit	86	67	3,112	613.2
Southwestern Public Health	25	46	1,229	581.1
Windsor-Essex County Health Unit	147	144	7,295	1717.2
TOTAL SOUTH WEST	304	336	14,139	836.2
Brant County Health Unit	11	25	952	613.4
City of Hamilton Public Health Services	144	69	5,862	989.9

Public Health Unit Name	Change in cases December 28	Change in cases December 29	Cumulative case count	Cumulative rate per 100,000 population
Haldimand-Norfolk Health Unit	10	4	862	755.6
Halton Region Public Health	78	114	5,571	899.9
Niagara Region Public Health	115	82	3,827	810.0
Region of Waterloo Public Health and Emergency Services	57	69	5,740	982.3
Wellington-Dufferin-Guelph Public Health	57	20	2,535	812.7
TOTAL CENTRAL WEST	472	383	25,349	889.7
TOTAL ONTARIO	2,553	2,923	178,831	1203.1

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 28	Change in outbreaks December 29	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	5	4	200	907
Retirement homes	5	7	111	478
Hospitals	0	2	52	236

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 29, 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 29, 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 29, 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.

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- 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 13, 2020 to December 26, 2020

Public Health Unit Name	Dec 14 to Dec 20	Dec 15 to Dec 21	Dec 16 to Dec 22	Dec 17 to Dec 23	Dec 18 to Dec 24	Dec 19 to Dec 25	Dec 20 to Dec 26	% change from Dec 14-20 to Dec 20- 26
NORTH WEST								
Northwestern Health Unit	5.7	10.3	11.4	11.4	19.4	19.4	22.8	+300.0%
Thunder Bay District Health Unit	44.0	48.7	58.0	58.0	50.7	46.7	38.7	-12.0%
NORTH EAST								
Algoma Public Health	0.0	0.0	0.9	1.7	1.7	1.7	2.6	N/A
North Bay Parry Sound District Health Unit	13.1	13.1	13.9	12.3	13.9	10.8	10.8	-17.6%
Porcupine Health Unit	3.6	8.4	10.8	10.8	9.6	9.6	7.2	+100.0%
Public Health Sudbury & Districts	4.0	5.0	5.5	6.0	5.5	6.5	6.5	+62.5%
Timiskaming Health Unit	36.7	45.9	55.1	61.2	70.4	79.5	76.5	+108.4%
EASTERN								
Ottawa Public Health	26.6	27.6	30.2	29.8	31.5	36.8	34.2	+28.6%

Public Health Unit Name	Dec 14 to Dec 20	Dec 15 to Dec 21	Dec 16 to Dec 22	Dec 17 to Dec 23	Dec 18 to Dec 24	Dec 19 to Dec 25	Dec 20 to Dec 26	% change from Dec 14-20 to Dec 20- 26
Eastern Ontario Health Unit	41.7	41.7	47.0	49.8	53.7	51.3	48.9	+17.3%
Hastings Prince Edward Public Health	16.6	14.8	15.4	16.6	14.8	11.3	9.5	-42.8%
Kingston, Frontenac and Lennox & Addington Public Health	35.7	32.4	28.7	27.3	27.3	22.1	24.4	-31.7%
Leeds, Grenville & Lanark District Health Unit	20.8	19.6	17.9	13.9	12.1	9.8	9.8	-52.9%
Renfrew County and District Health Unit	13.8	16.6	16.6	13.8	10.1	12.0	9.2	-33.3%
CENTRAL EAST								
Durham Region Health Department	93.2	96.9	96.7	96.4	92.2	89.3	87.7	-5.9%
Haliburton, Kawartha, Pine Ridge District Health Unit	23.8	24.9	23.8	25.4	26.5	25.4	22.8	-4.2%
Peel Public Health	208.6	195.1	190.9	194.5	190.5	182.1	176.2	-15.5%

Public Health Unit Name	Dec 14 to Dec 20	Dec 15 to Dec 21	Dec 16 to Dec 22	Dec 17 to Dec 23	Dec 18 to Dec 24	Dec 19 to Dec 25	Dec 20 to Dec 26	% change from Dec 14-20 to Dec 20- 26
Peterborough Public Health	16.2	19.6	20.3	20.3	22.3	31.8	30.4	+87.7%
Simcoe Muskoka District Health Unit	60.9	62.4	63.5	59.7	58.0	57.7	56.2	-7.7%
York Region Public Health	119.4	124.2	128.1	129.5	130.6	129.1	121.1	+1.4%
TORONTO								
Toronto Public Health	149.9	145.3	149.9	145.2	141.1	141.5	146.2	-2.5%
SOUTH WEST								
Chatham- Kent Public Health	32.0	35.7	40.4	37.6	35.7	45.1	46.1	+44.1%
Grey Bruce Health Unit	17.1	18.8	21.2	23.0	21.2	21.8	21.2	+24.0%
Huron Perth Public Health	54.4	58.7	52.2	50.8	61.5	63.7	75.1	+38.1%
Lambton Public Health	57.3	64.9	82.5	77.1	77.1	83.2	104.6	+82.5%
Middlesex- London Health Unit	83.7	88.9	100.3	99.1	92.8	87.9	91.0	+8.7%
Southwestern Public Health	77.1	95.0	103.5	96.5	96.5	104.0	100.7	+30.6%
Windsor- Essex County Health Unit	276.1	287.2	289.8	274.9	255.6	267.2	260.1	-5.8%

Public Health Unit Name	Dec 14 to Dec 20	Dec 15 to Dec 21	Dec 16 to Dec 22	Dec 17 to Dec 23	Dec 18 to Dec 24	Dec 19 to Dec 25	Dec 20 to Dec 26	% change from Dec 14-20 to Dec 20- 26
CENTRAL WEST								
Brant County Health Unit	60.6	60.6	62.5	63.1	51.5	50.3	48.3	-20.3%
City of Hamilton Public Health Services	119.2	121.4	126.0	122.9	108.2	108.9	106.4	-10.7%
Haldimand- Norfolk Health Unit	59.6	62.2	61.4	70.1	75.4	71.9	56.1	-5.9%
Halton Region Public Health	85.8	87.1	84.8	83.3	87.9	83.7	86.6	+0.9%
Niagara Region Public Health	109.4	112.6	118.5	125.1	131.9	114.3	110.1	+0.6%
Region of Waterloo Public Health and Emergency Services	98.6	106.1	106.4	110.7	109.2	104.4	97.0	-1.6%
Wellington- Dufferin- Guelph Public Health	92.0	96.2	97.1	103.6	105.5	93.6	95.2	+3.5%
TOTAL ONTARIO	107.5	107.4	109.7	108.8	106.5	104.9	103.7	-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 <u>cd@oahpp.ca</u>.

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