

#### DAILY EPIDEMIOLOGICAL SUMMARY

# COVID-19 in Ontario: January 15, 2020 to April 3, 2022

Due to changes in the Ministry of Health's <u>updated guidance on testing and case</u>, <u>contact and outbreak management</u>, case counts in this report are an underestimate of the true number of individuals with COVID-19 in Ontario. In addition, data for hospitalizations, intensive care unit (ICU) admission and deaths in the most recent reporting period should be interpreted with caution due to data entry and reporting lags.

#### Introduction

This report includes the most current information available from CCM as of April 3, 2022.

A <u>weekly summary report</u> is available with additional information to complement the daily report.

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

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

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

## Highlights

- There are a total of 1,174,686 confirmed cases of COVID-19 in Ontario reported to date.
- Compared to the previous day, this represents:
  - An increase of 2,248 confirmed cases (percent change of -26.9%)
  - An increase of 0\* deaths (percent change of -100.0%)
  - An increase of 1,697 resolved cases (percent change of -8.3%)

#### Case Characteristics

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

	Change in cases April 2, 2022	Change in cases April 3, 2022	Percentage change April 3, 2022 compared to April 2, 2022	Cumulative case count as of April 3, 2022
Total number of cases	3,077	2,248	-26.9%	1,174,686
Number of deaths	8	0	-100.0%	12,470
Number resolved	1,851	1,697	-8.3%	1,137,062

**Note:** The number of cases publicly reported by the province each day may not align with case counts reported to public health on a given day; public health unit reported date refers to the date local public health was first notified of the case. Data corrections or updates can result in case records being removed and or updated from past reports. The number of deaths presented in the change in cases column for each day only includes deaths that occurred in the last 30 days.

<sup>\*</sup>This number only includes deaths that have occurred in the last month.

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

	Change in cases April 2, 2022	Change in cases April 3, 2022	Cumulative case count as of April 3, 2022	
Sex: Male	1,250	906	554,212	
Sex: Female	1,792	1,325	613,345	
Ages: 0-4	97	84	35,055	
Ages: 5-11	145	134	70,240	
Ages: 12-19	186	129	100,367	
Ages: 20-39	1,110	793	449,502 326,890	
Ages: 40-59	920	664		
Ages: 60-79	386	305	141,177	
Ages: 80 and over	230	142	51,058	

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

Data Source: CCM

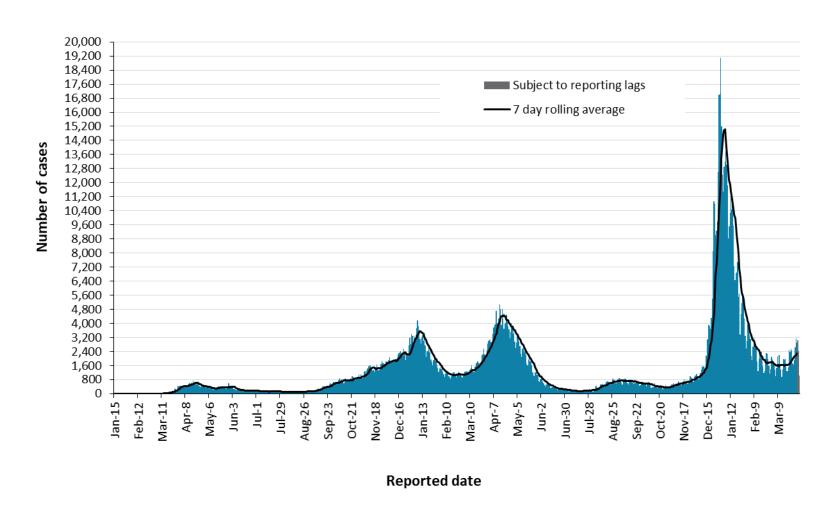
Table 2. Summary of recent confirmed cases of COVID-19 in long-term care homes: Ontario

Long-term care home cases	Change in cases April 2, 2022	Change in cases April 3, 2022	Cumulative case count as of April 3, 2022
Residents	43	24	26,086
Health care workers	14	7	11,922
Deaths among residents	1	0	4,420
Deaths among health care workers	0	0	10

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

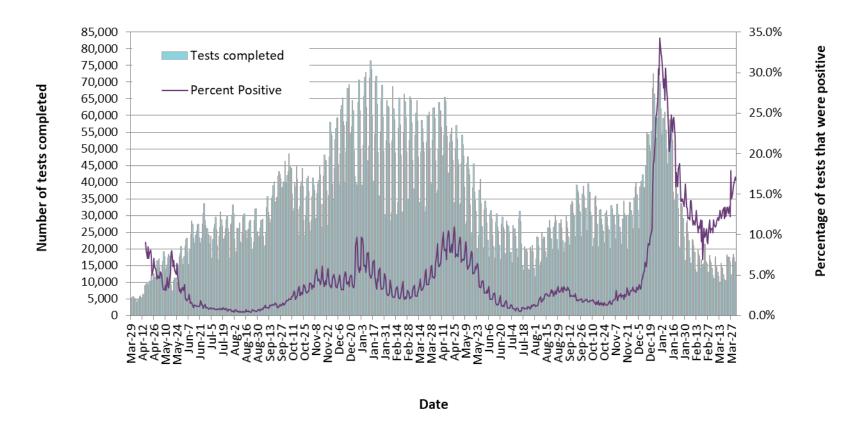
### Time

Figure 1. Confirmed cases of COVID-19 by public health unit reported date: Ontario, January 15, 2020 to April 3, 2022



Note: Changes in testing eligibility went into effect on December 31, 2021, limiting access to testing and resulting in a change in the population being tested.

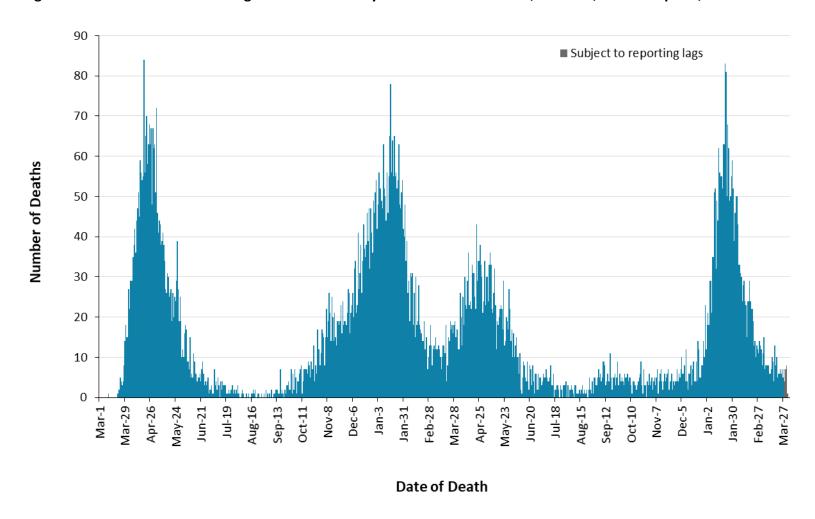




**Note:** The number of tests performed does not reflect the number of specimens or persons tested. More than one test may be performed per specimen or per person. As such, the percentage of tests that were positive does not necessarily translate to the number of specimens or persons testing positive. Changes in testing eligibility went into effect on December 31, 2021, limiting access to testing and resulting in a change in the population being tested. **Data Source:** The Provincial COVID-19 Diagnostics Network, data reported by member microbiology laboratories.

## Severity

Figure 3. Confirmed deaths among COVID-19 cases by date of death: Ontario, March 1, 2020 to April 3, 2022



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

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

	Cumulative case count as of April 3, 2022	Percentage of all cases	
Cumulative deaths reported (please note there may be a reporting delay for deaths)	12,470	1.1%	
Deaths reported in ages: 19 and under	15	<0.1%	
Deaths reported in ages: 20-39	131	<0.1%	
Deaths reported in ages: 40-59	885	0.3%	
Deaths reported in ages: 60-79	4,197	3.0%	
Deaths reported in ages: 80 and over	7,241	14.2%	
Ever in ICU	8,000	0.7%	
Ever hospitalized	43,922	3.7%	

**Note:** Not all cases have an age reported. Data corrections or updates can result in case records being removed and/or updated and may result in totals differing from past publicly reported case counts. Percentage of deaths reported for each age group is calculated using all cases in the age group as the denominator.

# Geography

Table 4. Summary of recent confirmed cases of COVID-19 by public health unit and region: Ontario

Public Health Unit Name	Change in cases April 2, 2022	Change in cases April 3, 2022	Cumulative case count	Cumulative rate per 100,000 population
Northwestern Health Unit	41	8	6,771	8,340.2
Thunder Bay District Health Unit	28	21	9,902	6,278.8
TOTAL NORTH WEST	69	29	16,673	6,979.3
Algoma Public Health	53	45	6,822	5,789.2
North Bay Parry Sound District Health Unit	13	52	4,636	3,585.2
Porcupine Health Unit	38	17	6,374	7,498.8
Public Health Sudbury & Districts	60	28	12,840	6,255.6
Timiskaming Health Unit	7	5	1,416	4,178.8
TOTAL NORTH EAST	171	147	32,088	5,616.8
Ottawa Public Health	235	103	66,862	6,409.7
Eastern Ontario Health Unit	64	27	14,429	6,684.5
Hastings Prince Edward Public Health	50	51	8,162	4,722.6
Kingston, Frontenac and Lennox & Addington Public Health	125	73	13,047	6,235.7
Leeds, Grenville & Lanark District Health Unit	36	23	7,496	4,165.7
Renfrew County and District Health Unit	18	11	3,844	3,543.7
TOTAL EASTERN	528	288	113,840	5,900.1

Public Health Unit Name	Change in cases April 2, 2022	Change in cases April 3, 2022	Cumulative case count	Cumulative rate per 100,000 population
Durham Region Health Department	127	81	56,348	7,920.4
Haliburton, Kawartha, Pine Ridge District Health Unit	35	28	7,784	4,081.2
Peel Public Health	153	139	176,499	11,287.6
Peterborough Public Health	33	29	6,254	4,222.3
Simcoe Muskoka District Health Unit	175	131	39,247	6,492.3
York Region Public Health	183	149	102,492	8,539.1
TOTAL CENTRAL EAST	706	557	388,624	8,795.0
Toronto Public Health	645	590	292,543	9,789.3
TOTAL TORONTO	645	590	292,543	9,789.3
Chatham-Kent Public Health	23	19	7,372	6,914.3
Grey Bruce Health Unit	71	30	7,241	4,110.7
Huron Perth Public Health	18	21	6,334	4,331.1
Lambton Public Health	14	7	10,453	7,861.1
Middlesex-London Health Unit	97	72	34,341	6,725.5
Southwestern Public Health	23	34	12,118	5,535.7
Windsor-Essex County Health Unit	99	96	39,740	9,221.6
TOTAL SOUTH WEST	345	279	117,599	6,827.4
Brant County Health Unit	33	34	10,519	6,850.2
City of Hamilton Public Health Services	154	113	51,524	8,857.2
Haldimand-Norfolk Health Unit	30	15	7,597	6,330.4

Public Health Unit Name	Change in cases April 2, 2022	Change in cases April 3, 2022	Cumulative case count	Cumulative rate per 100,000 population
Halton Region Public Health	85	75	44,778	7,333.7
Niagara Region Public Health	106	30	36,459	7,568.4
Region of Waterloo Public Health and Emergency Services	132	66	42,586	7,036.3
Wellington-Dufferin-Guelph Public Health	73	25	19,856	6,364.2
TOTAL CENTRAL WEST	613	358	213,319	7,446.2
TOTAL ONTARIO	3,077	2,248	1,174,686	7,972.6

**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 5. Summary of recent confirmed COVID-19 outbreaks reported in long-term care homes, retirement homes and hospitals by status: Ontario

Institution type	Change in outbreaks April 2, 2022	Change in outbreaks April 3, 2022	Number of ongoing outbreaks	Cumulative number of outbreaks reported
Long-term care homes	7	4	100	2,291
Retirement homes	6	2	65	1,567
Hospitals	3	2	40	1,224

**Note:** Ongoing outbreaks are those that are reported in CCM as 'Open' and without a 'Declared Over Date' recorded. 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 successfully extracted from the Public Health Case and Contact Management Solution (CCM) for all PHUs by PHO as of **April 3, 2022 at 1 p.m**. for cases reported from May 1, 2021 onwards and as of **March 31, 2022 at 9 a.m.** for cases reported up to April 30, 2021.
- CCM is a dynamic disease reporting system, which allows ongoing updates to data previously entered. As a result, data extracted from CCM represent a snapshot at the time of extraction and may differ from previous or subsequent reports.
- Ontario population estimate data were sourced from Statistics Canada. Population estimates 2001-2020: Table 1 annual population estimates by age and sex for July 1, 2001 to 2020, health regions, Ontario [unpublished data table]. Ottawa, ON: Government of Canada; 2021 [received April 32, 2021].
- COVID-19 test data were based on information from The Provincial COVID-19 Diagnostics Network, reported by member microbiology laboratories.

#### **Data Caveats**

- Due to changes in the availability of testing, driven by increasing COVID-19 cases related to the Omicron variant, case counts in this report are an underestimate of the true number of individuals with COVID-19 in Ontario. As such, data should be interpreted with caution.
- The data only represent cases reported to public health units and recorded in CCM. As a result, all counts will be subject to varying degrees of underreporting due to a variety of factors, such as disease awareness and medical care seeking behaviours, which may depend on severity of illness, clinical practice, changes in laboratory testing, and reporting behaviours.
- Data cleaning for older cases is incorporated on Mondays and Thursdays and may impact the case count published on Tuesdays and Fridays.
- Lags in CCM data entry due to weekend staffing may result in lower case counts than would otherwise be recorded.
- Only cases meeting the confirmed case classification as listed in the <u>MOH Case Definition</u> –
   Coronavirus Disease (COVID-19) document are included in the report counts from CCM.
- Cases of confirmed reinfection, as defined in the provincial case definitions, are counted as unique investigations.
- Case classification information may be updated for individuals with a positive result issued from a point-of-care assays.
- The number of tests performed does not reflect the number of specimens or persons tested. More than one test may be performed per specimen or per person. As such, the percentage of tests that were positive does not necessarily translate to the number of specimens or persons testing positive.
- Reported date is the date the case was reported to the public health unit.

- For surveillance purposes, a COVID-19 death is defined as a death resulting from a clinically compatible illness unless there is a clear alternative cause of death that cannot be related to COVID-19 (e.g., trauma, medically assisted death). There should be no period of complete recovery from COVID-19 between illness and reported death.
- Deaths are determined by using the Outcome and Type of Death fields in CCM. COVID-19 deaths are counted where the Outcome value is 'Fatal' and the Type of Death value is not 'DOPHS was unrelated to cause of death'.
  - COVID-19 deaths are placed in time using the 'Date of Death' field in CCM. If the date of death is missing, the outcome date field is used as a proxy.
- Resolved cases are determined only for COVID-19 cases that are not considered COVID-19 deaths. The following cases are classified as resolved:
  - Cases that are reported as 'recovered' in CCM based on local public health unit assessment
  - Cases that are not hospitalized and are 14 days past their symptom onset date or specimen collection date (where symptom onset date is not known)
  - 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
  - Cases that died with a Type of Death = "DOPHS was unrelated to cause of death". These are considered resolved for the purpose of COVID-19 surveillance and reporting
- Hospitalization includes all cases hospitalized (or that had their hospital stay extended) because
  of COVID-19. It includes cases that have been discharged from hospital as well as cases that are
  currently hospitalized. Includes Intensive Care Unit (ICU) cases but not emergency room visits.
  Hospitalizations were identified by a reported hospital admission date or reported 'Yes' for
  hospitalization/ICU
- ICU admission includes all cases for which an ICU admission date was reported at the time of data extraction. It is a subset of the count of hospitalized cases. It includes cases that have been treated or that are currently being treated in an ICU.
- Orientation of case counts by geography is based on the permanent health unit. This is
  equivalent to the diagnosing health unit (DHU) in iPHIS. DHU refers to the case's public health
  unit of residence at the time of illness onset and not necessarily the location of exposure. Cases
  for which the DHU was reported as MOH-PHO (to signify a case that is not a resident of Ontario)
  have been excluded from the analyses.
- Male/Female information presented in this report are sourced from the Sex field in CCM and are
  intended to represent sex assigned at birth. On October 14, 2021 changes were made in CCM to
  enable reporting on the Sex field where these data are supplemented by archived Male/Female
  information previously entered in the Gender field.
- 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 are those that are reported in CCM as 'Open' and without a 'Declared Over Date' recorded. Closed outbreaks are 'Closed' or have a 'Declared Over Date' recorded in CCM or where the outbreak start date (determined by the onset date of first case, or if missing the reported date, or if missing the created date) is more than 5 months from the current date, even for outbreaks where the outbreak status value selected in CCM is 'OPEN'.
- '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, March 19, 2022 to March 31, 2022

Public Health Unit Name	Mar 19 to Mar 25	Mar 20 to Mar 26	Mar 21 to Mar 27	Mar 22 to Mar 28	Mar 23 to Mar 29	Mar 24 to Mar 30	Mar 25 to Mar 31	% change from Mar 19 – Mar 25 to Mar 25 – Mar 31
NORTH WEST								
Northwestern Health Unit	458.2	443.4	434.8	459.4	412.6	411.4	391.7	-14.5%
Thunder Bay District Health Unit	125.6	123.6	107.8	121.1	118.6	118.6	117.9	-6.1%
NORTH EAST								
Algoma Public Health	316.5	313.1	303.0	306.3	285.1	290.2	261.4	-17.4%
North Bay Parry Sound District Health Unit	105.2	108.3	110.6	111.4	107.5	133.0	137.7	+30.9%
Porcupine Health Unit	150.6	170.6	158.8	143.5	163.5	144.7	168.2	+11.7%
Public Health Sudbury & Districts	149.6	156.4	161.7	172.5	152.5	165.2	169.5	+13.3%
Timiskaming Health Unit	188.9	191.8	177.1	191.8	218.4	203.6	209.5	+10.9%
EASTERN								
Ottawa Public Health	66.9	70.5	75.0	77.8	82.6	91.1	93.9	+40.4%
Eastern Ontario Health Unit	83.9	83.4	85.2	85.7	86.6	101.5	96.4	+14.9%
Hastings Prince Edward Public Health	160.3	159.1	166.6	174.7	177.6	188.0	194.4	+21.3%

Public Health Unit Name	Mar 19 to Mar 25	Mar 20 to Mar 26	Mar 21 to Mar 27	Mar 22 to Mar 28	Mar 23 to Mar 29	Mar 24 to Mar 30	Mar 25 to Mar 31	% change from Mar 19 – Mar 25 to Mar 25 – Mar 31
Kingston, Frontenac and Lennox & Addington Public Health	255.2	277.7	278.2	299.7	287.2	317.8	330.3	+29.4%
Leeds, Grenville & Lanark District Health Unit	80.6	88.9	89.5	91.7	91.7	93.9	100.6	+24.8%
Renfrew County and District Health Unit	88.5	93.1	97.7	111.5	110.6	128.1	118.0	+33.3%
CENTRAL EAST								
Durham Region Health Department	78.2	78.6	89.0	89.0	98.8	106.5	105.4	+34.8%
Haliburton, Kawartha, Pine Ridge District Health Unit	80.7	80.2	80.7	86.5	89.7	86.5	84.4	+4.6%
Peel Public Health	43.1	45.8	46.5	46.9	46.9	50.1	52.2	+21.1%
Peterborough Public Health	95.2	87.8	95.9	92.5	98.6	101.3	104.0	+9.2%
Simcoe Muskoka District Health Unit	119.6	119.8	127.5	131.8	138.6	142.8	157.0	+31.3%
York Region Public Health	73.5	78.0	80.3	82.0	80.4	84.6	85.3	+16.1%
TORONTO								
Toronto Public Health	88.9	90.1	93.9	96.4	99.0	102.3	104.1	+17.1%
SOUTH WEST								
Chatham-Kent Public Health	91.9	95.7	106.9	109.7	108.8	98.5	91.0	-1.0%

Public Health Unit Name	Mar 19 to Mar 25	Mar 20 to Mar 26	Mar 21 to Mar 27	Mar 22 to Mar 28	Mar 23 to Mar 29	Mar 24 to Mar 30	Mar 25 to Mar 31	% change from Mar 19 – Mar 25 to Mar 25 – Mar 31
Grey Bruce Health Unit	93.7	102.2	99.9	95.9	92.0	113.5	122.6	+30.8%
Huron Perth Public Health	112.8	114.9	114.9	116.9	101.9	100.5	99.2	-12.1%
Lambton Public Health	115.1	127.1	145.9	142.1	145.9	158.7	158.7	+37.9%
Middlesex-London Health Unit	109.7	110.8	111.4	119.5	113.8	113.2	113.2	+3.2%
Southwestern Public Health	92.3	97.8	92.7	102.8	106.0	110.5	111.0	+20.3%
Windsor-Essex County Health Unit	120.9	123.0	129.3	123.0	130.9	135.5	139.0	+15.0%
CENTRAL WEST								
Brant County Health Unit	97.0	95.1	92.5	90.5	84.7	90.5	96.4	-0.6%
City of Hamilton Public Health Services	129.8	139.6	137.9	140.1	138.6	145.8	143.7	+10.7%
Haldimand-Norfolk Health Unit	80.0	89.2	88.3	103.3	88.3	119.2	125.8	+57.3%
Halton Region Public Health	93.7	95.6	98.6	100.2	103.5	104.5	103.8	+10.8%
Niagara Region Public Health	92.2	91.8	89.9	91.1	98.6	105.0	111.1	+20.5%
Region of Waterloo Public Health and Emergency Services	77.8	80.3	80.8	85.4	86.4	90.5	99.5	+27.9%
Wellington- Dufferin-Guelph Public Health	100.3	106.1	106.4	111.2	121.5	122.8	126.0	+25.6%

Public Health Unit Name	Mar 19 to Mar 25	Mar 20 to Mar 26	Mar 21 to Mar 27	Mar 22 to Mar 28	Mar 23 to Mar 29	Mar 24 to Mar 30	Mar 25 to Mar 31	% change from Mar 19 – Mar 25 to Mar 25 – Mar 31
TOTAL ONTARIO	94.7	97.6	100.0	102.9	104.0	109.3	111.5	+17.7%

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

Table A2. Number of confirmed COVID-19 cases with a fatal outcome by date of death in the last 30 days: Ontario

Date of Death	Number of deaths
March 5, 2022	11
March 6, 2022	15
March 7, 2022	7
March 8, 2022	8
March 9, 2022	8
March 10, 2022	8
March 11, 2022	8
March 12, 2022	6
March 13, 2022	6
March 14, 2022	7
March 15, 2022	10
March 16, 2022	9
March 17, 2022	4
March 18, 2022	13
March 19, 2022	8
March 20, 2022	10
March 21, 2022	5
March 22, 2022	6
March 23, 2022	6
March 24, 2022	7
March 25, 2022	6

Date of Death	Number of deaths
March 26, 2022	7
March 27, 2022	5
March 28, 2022	7*
March 29, 2022	4*
March 30, 2022	7*
March 31, 2022	8*
April 1, 2022	1*
April 2, 2022	0*
April 3, 2022	0*

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

\*Subject to reporting lags

#### Citation

Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic summary: COVID-19 in Ontario – January 15, 2020 to April 3, 2022. Toronto, ON: Queen's Printer for Ontario; 2022.

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