

Windsor-Essex County COVID-19 Weekly Epidemiologic Update

December 8, 2021

Data Highlights (week of November 29-December 5, 2021)

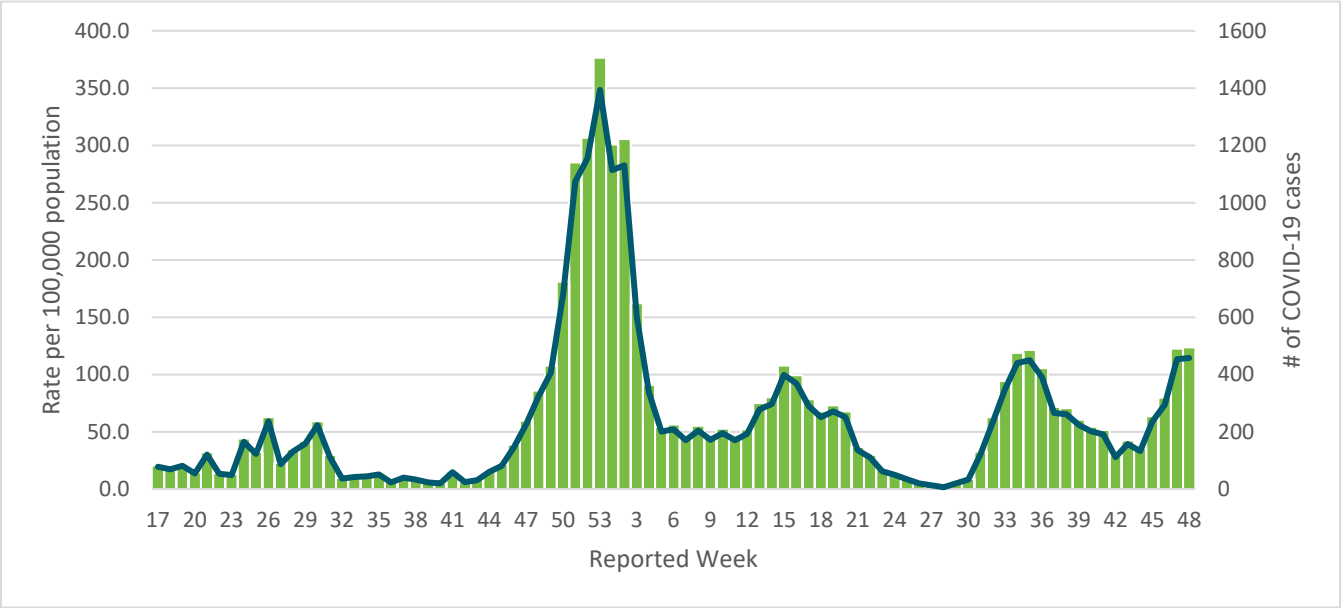
- 22,270 cases reported and 7-day moving average of 72.3 cases per 100,000 population
- For the week of November 29 – December 5, the case rate is 114.5 per 100,000 individuals, an increase of 1.1 compared to the previous week.
- Case rate is 1.6 times higher than the Southwest region (69.0 cases per 100,000), and 2.6 times higher than Ontario (44.2 cases per 100,000). Windsor-Essex has the third highest case rate in Ontario.
- Increase of 1.1% in percent positivity was observed this week, as it increased from 5.4% (November 14 - 20, 2021) to 6.5% (November 21 - 27, 2021).
- Highest number of cases (23%) were seen among 0-19 year olds in the past two weeks.
- Tecumseh had the highest weekly case rate of 124.7 cases per 100,000 population, followed by Kingsville (121.6 cases per 100,000) and Leamington (115.2 cases per 100,000 population).

COVID-19 Cases in Windsor-Essex County

Trends

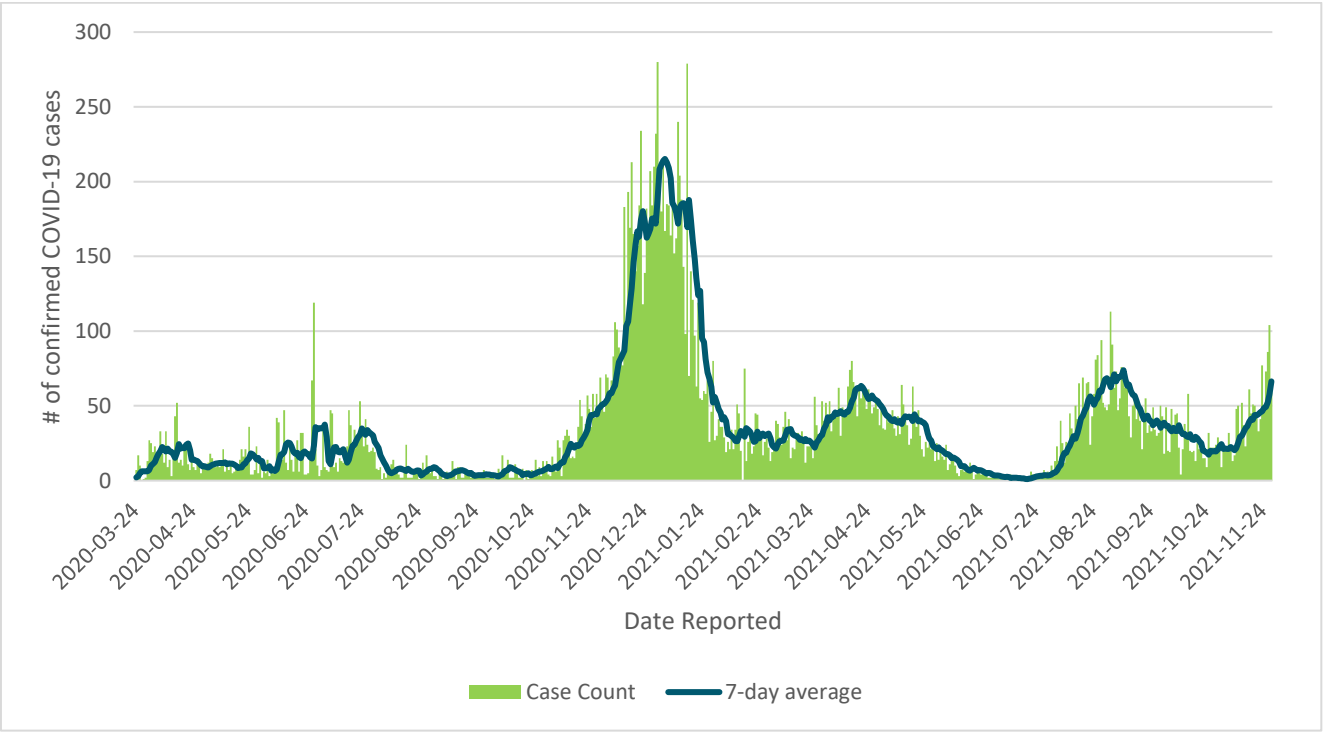
Up until December 5, the health unit reported 22,270 confirmed cases of COVID-19. For the most completed week November 29 – December 5, 2021, the case rate was 114.5 cases per 100,000 population, which is higher than the previous week's rate (November 23 – 28, 2021; 113.4 cases per 100,000 population; Figure 1). The current 7-day moving average of cases in WEC is 72.3 cases per 100,000.

Figure 1. Confirmed COVID-19 case rates in Windsor-Essex County by reported week: Week 17, 2020 to Week 48, 2021).



Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [07/Dec/2021] at 4:30 pm

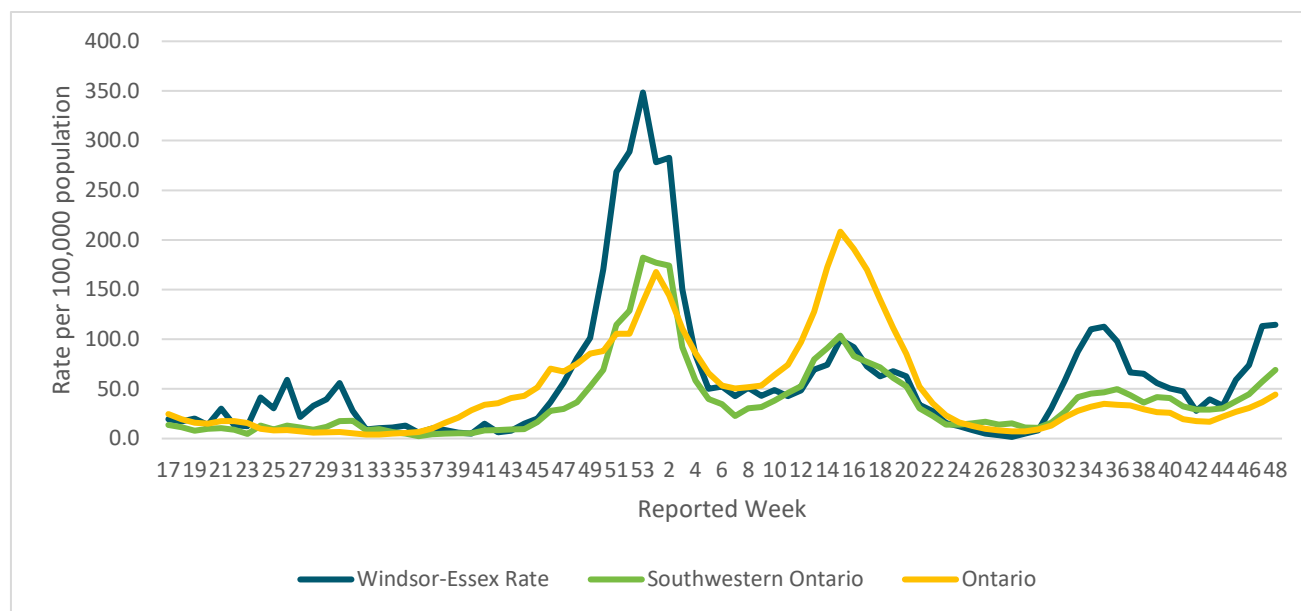
Figure 2. Confirmed COVID-19 cases in Windsor-Essex County by date: March 1, 2020 to December 5, 2021).



Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [07/Dec/2021] at 4:30 pm

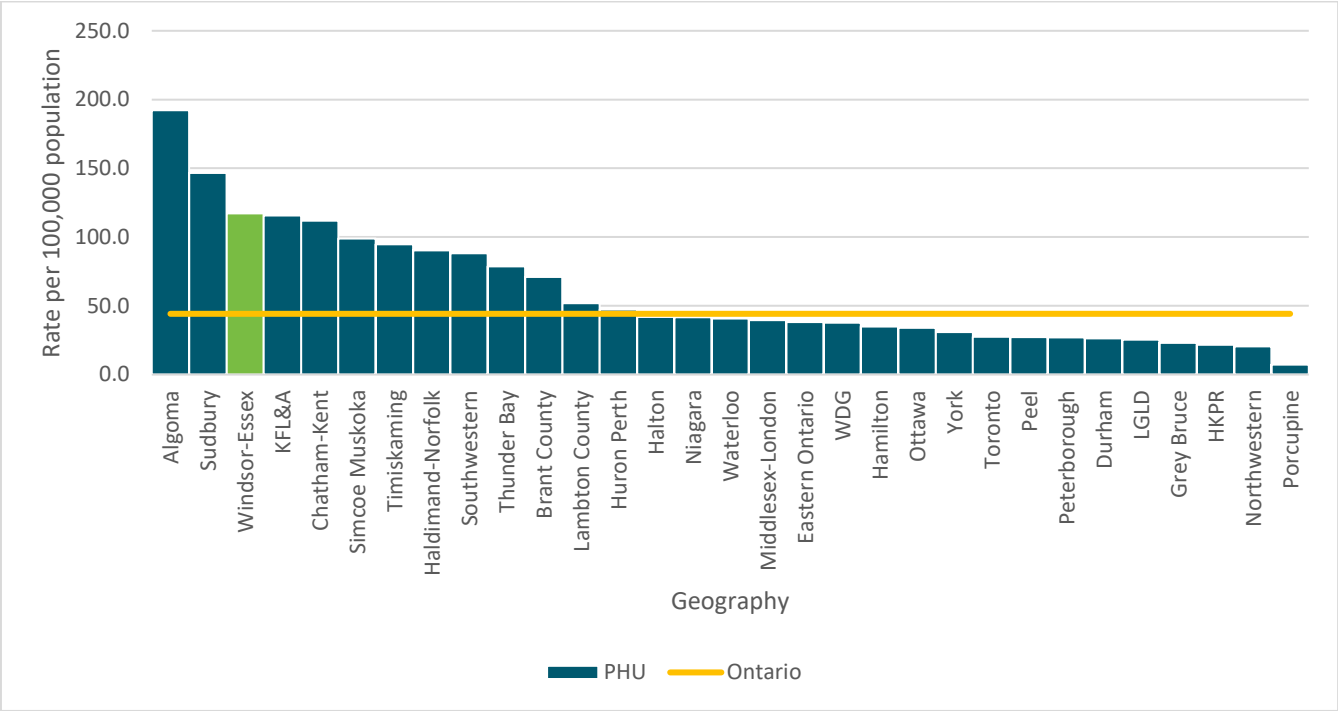
During the past week (November 29 – December 5, 2021), Windsor had a case rate of 114.5 cases per 100,000, which was 1.6 time higher than the Southwest regions (69.0 cases per 100,000) and 2.6 times higher than Ontario (44.2 cases per 100,000 in Ontario). As shown in Figure 3a, the case rate has been consistently increasing since November 8 (Week 44). Compared to other health units in Ontario, Windsor-Essex has the third highest case rate for the most completed week (Figure 3b). Although our rates have increased, we have seen increases across the province.

Figure 3a. Weekly COVID-19 case rates in Ontario: March 1, 2020 to December 5, 2021.



Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [09/Dec/2021] at 9:30 am

Figure 3b. Weekly COVID-19 case rates across health units in Ontario: March 1, 2020 to December 5, 2021.

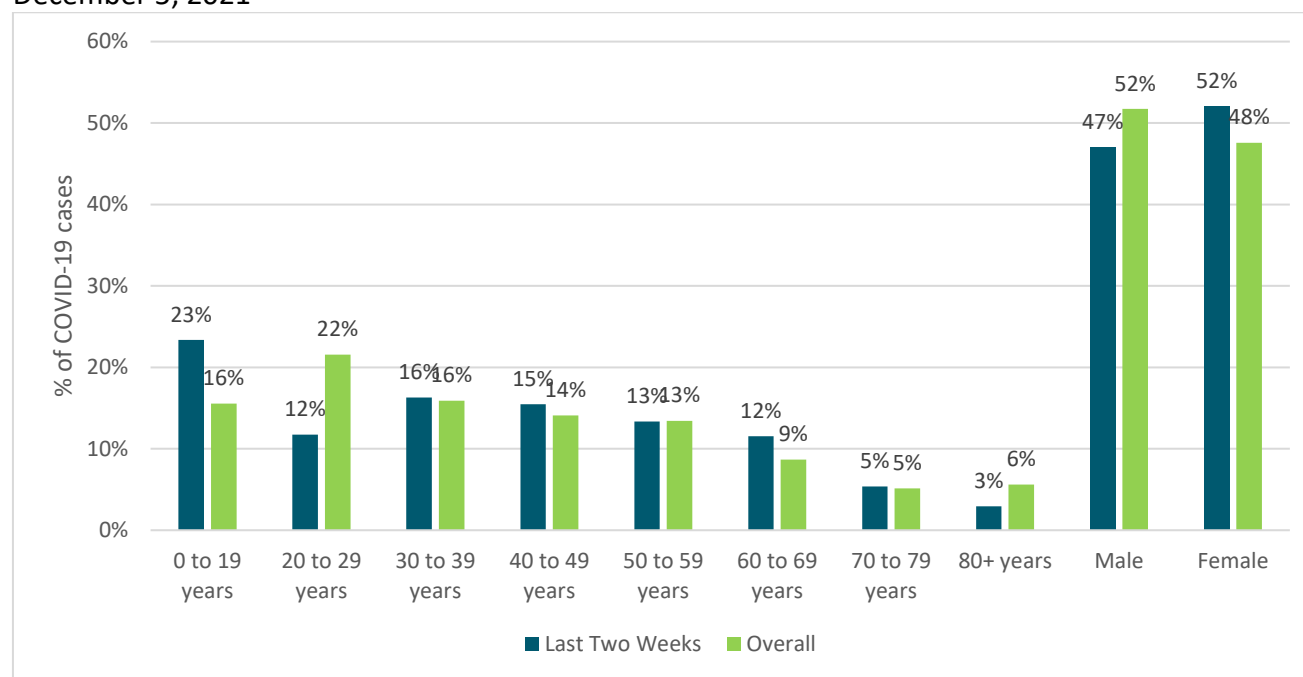


Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [09/Dec/2021] at 9:30 am

Age and Sex

Overall, approximately 48% of the cases were among females and 52% among males. In the past two weeks, a relatively higher number of cases were reported among 0-19 year olds. Compared to the overall cases, a relatively lower number of cases were observed for the 20-29 year olds and a higher number of cases were observed for 60-69 year olds during the past two weeks (Figure 4). From the onset of the pandemic locally (March 1, 2020 to November 7, 2021), only 15% of our cases were in the 0-19 age group. Higher number of cases in the 0-19 age group may be attributed to schools which increases the chance of acquiring the infection due to close proximity in classrooms and school buses. Increasing vaccination coverage might explain the decrease observed among the 20-29 year olds.

Figure 4. Distribution of confirmed COVID-19 cases by age and sex by reported date: March 1, 2020 to December 5, 2021

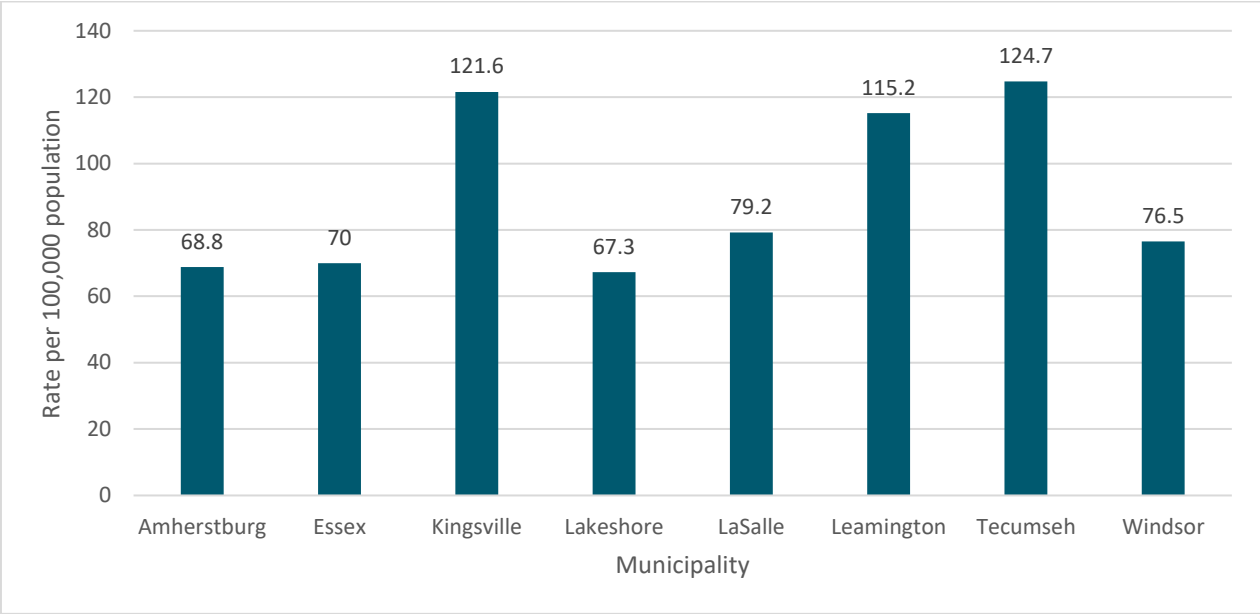


Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [07/Dec/2021] at 4:30 pm

Municipal Distribution

In the most recent completed week (November 29 – December 5, 2021), Tecumseh had the highest case rates (124.7 cases per 100,000 population), followed by Kingsville (121.6 cases per 100,000 population) and Leamington (115.2 cases per 100,000 population). Compared to the previous week (November 22 – 28, 2021), a significant increase is noted across all municipalities. This increase is may be due to an increase in social gatherings as the holidays approach.

Figure 5. Distribution of confirmed COVID-19 cases by municipality: November 29 – December 5, 2021

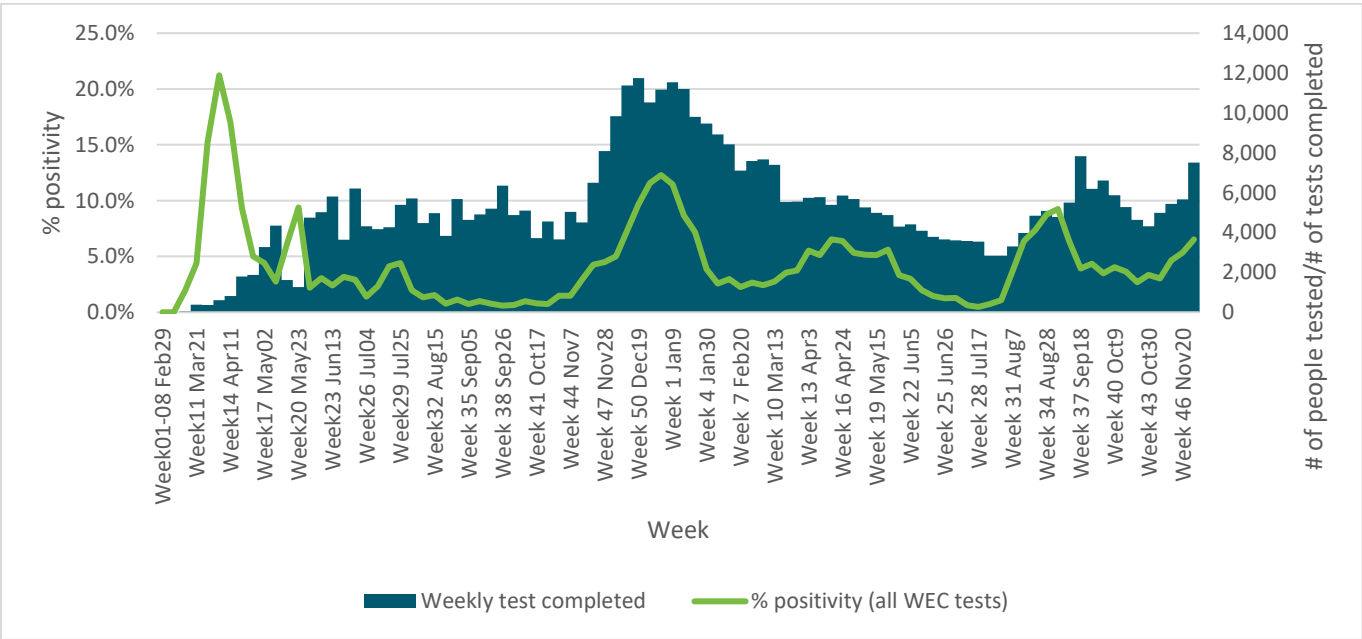


Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [08/Dec/2021] at 4:30 pm

Percent Positivity

The percent positivity for the most recent completed week, November 21 - 27, is 6.5%, which has increased by 1.1% in comparison to the previous week (November 14 - 20, 2021). Compared to other health units in the province, Windsor-Essex has the highest percent positivity.

Figure 6. Percent positivity of tests conducted in Windsor-Essex County for COVID-19: February 29 to November 27, 2021

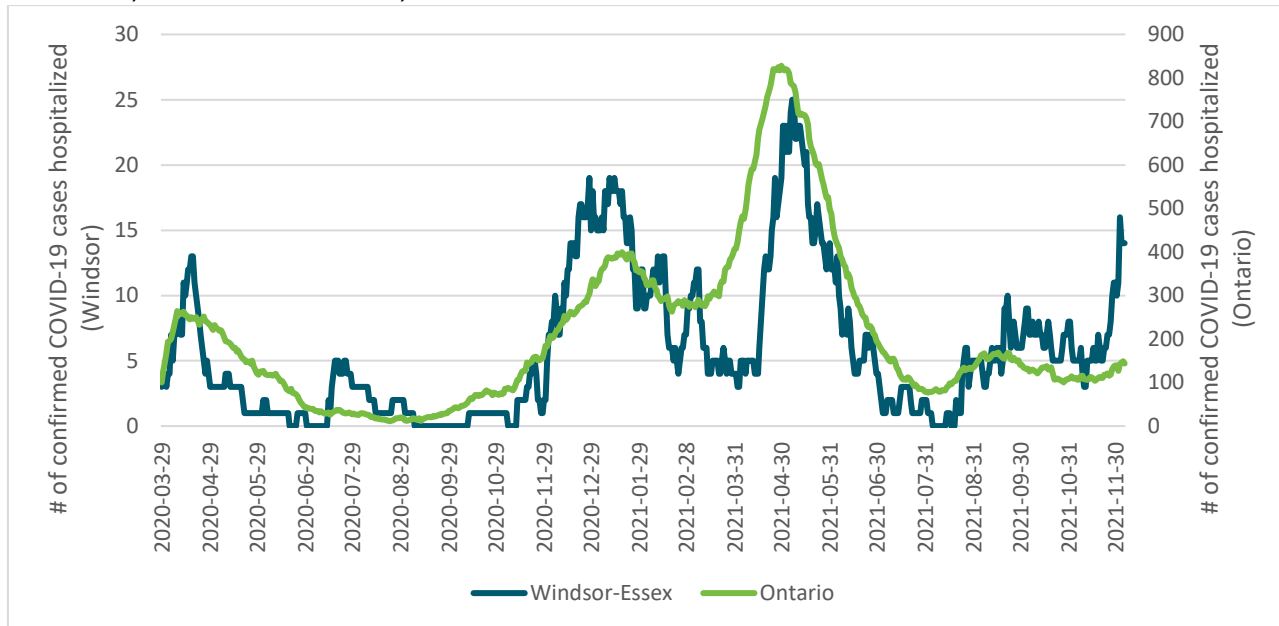


Source: COVID-19 Testing Report, SAS Visual Analytics Hub. Data extracted on December 7, 2021

Hospitalization and ICU Admissions

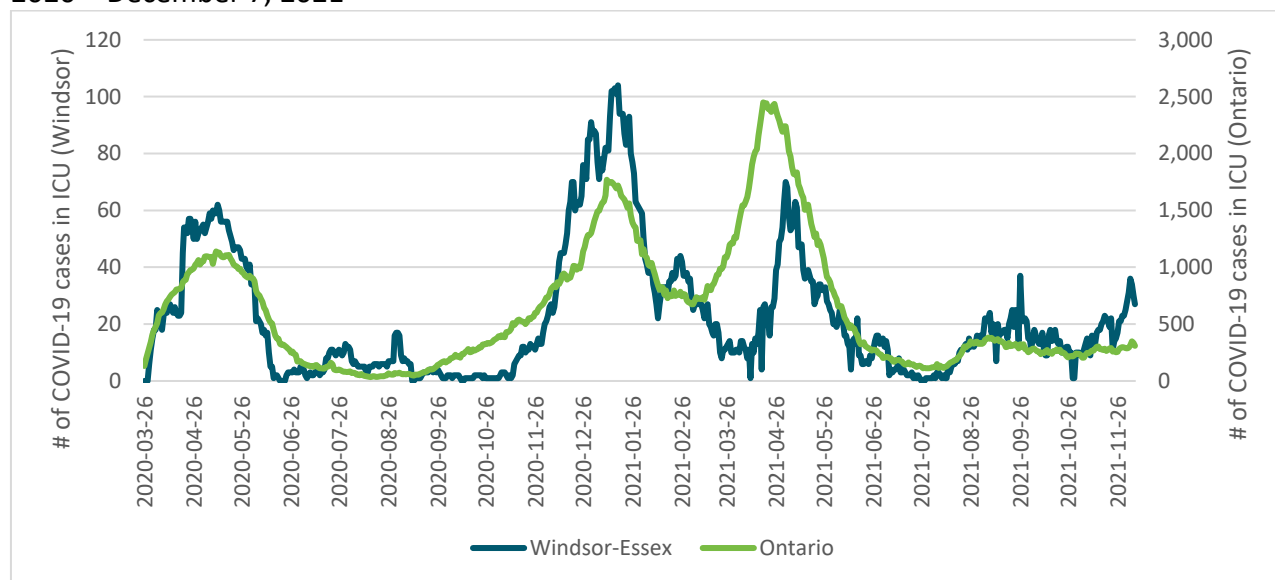
For the most recent week (November 29 – December 5, 2021), there have been 39 new hospital admissions compared to 29 new admissions seen during the previous week (November 22 – 28, 2021). There were 12 new COVID-19 patients were admitted to ICU for this week (November 29 – December 5, 2021), compared to seven admissions during the previous week. Compared to the last week, Ontario reported an increase in the average number of cases in ICU from 1898 to 2123.

Figure 7. Confirmed COVID-19 case in-patient hospitalizations in Ontario and Windsor-Essex County: March 29, 2020 – December 5, 2021



Source: COVID-19 Regional Hospitals Report, SAS Visual Analytics Hub. Data extracted on December 7, 2021

Figure 8. Confirmed COVID-19 case ICU hospitalizations in Ontario and Windsor-Essex County: March 26, 2020 – December 7, 2021

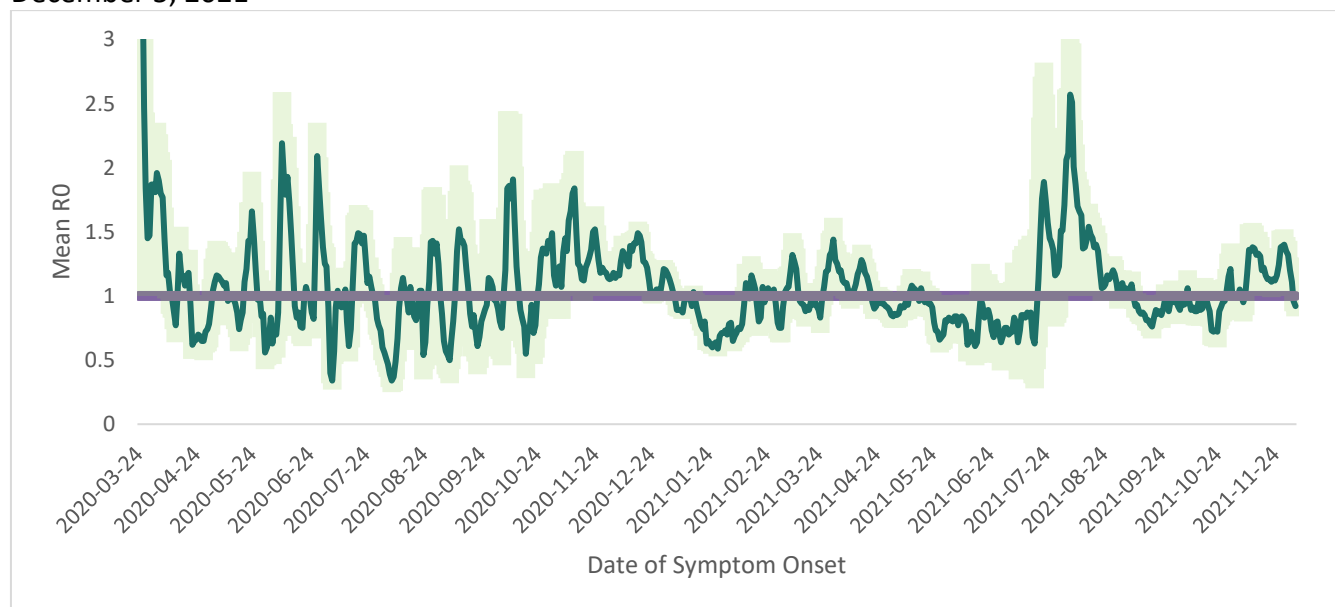


Source: COVID-19 Regional Hospitals Report, SAS Visual Analytics Hub. Data extracted on December 7, 2021

Effective Reproductive Number (R_t) for COVID-19

Compared to the previous week, the average reproductive number for this week (November 29 – December 5, 2021) has remain unchanged at one. During the current week, highest reproductive number of 1.52 was observed on November 29, 2021, after which a decline towards 0.92 was observed.

Figure 9. Median effective reproductive number for COVID-19 in Windsor-Essex County: March 25, 2020 – December 5, 2021



Source: Ontario Ministry of Health, Public Health Case and Contact Management Solution (CCM), extracted by the Windsor-Essex County Health Unit [07/Dec/2021] at 4:30 pm.

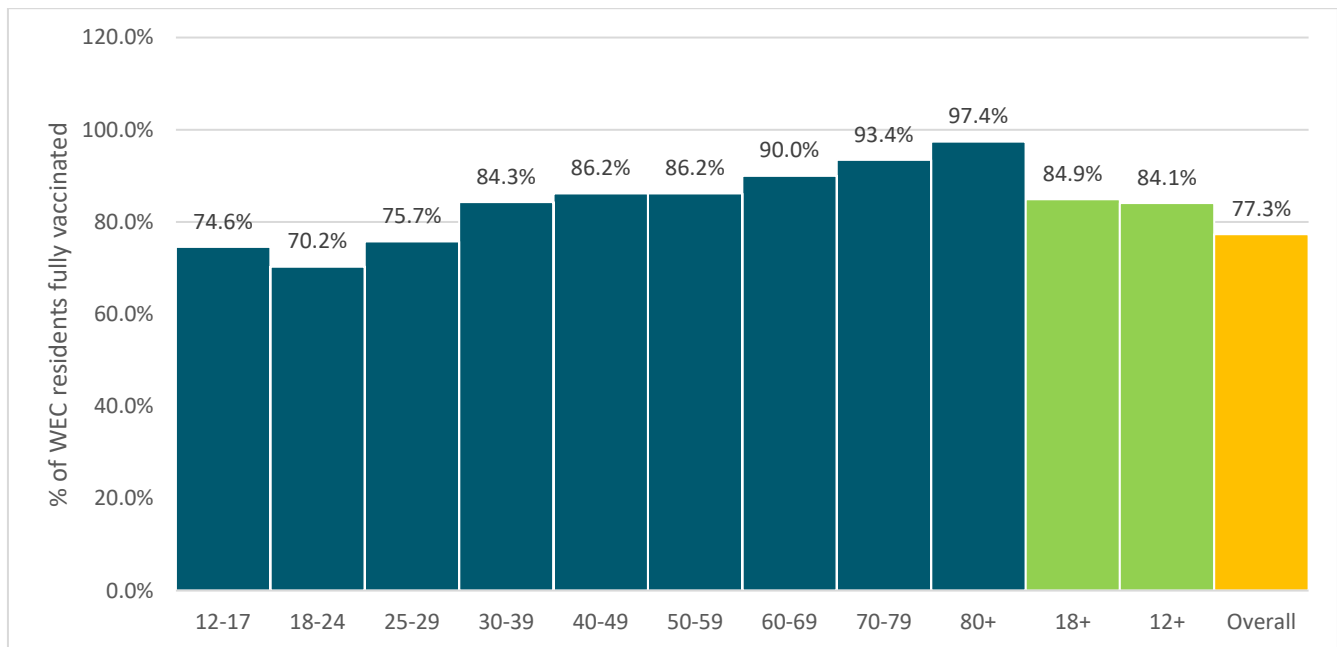
For more information on local COVID-19 statistics, please visit: <https://www.wechu.org/cv/local-updates>

COVID-19 Vaccination Status in Windsor-Essex County

Fully Vaccinated Coverage Rates by Age Group

Over 15,585 doses were administered to Windsor-Essex County residents in week 49 (December 1 to December 7) compared to 13379 doses in week 48 (November 24 to November 30). This represents a 16.5% increase between the two weeks. Overall, the 18-24 age group has the lowest coverage rate for two vaccines (70.2%), followed by those in the 12-17 age group (74.6%) and 25-29 age group (75.7%) (Figure 10).

Figure 10. COVID-19 fully vaccinated coverage rate by age group in Windsor-Essex County: December 8, 2021

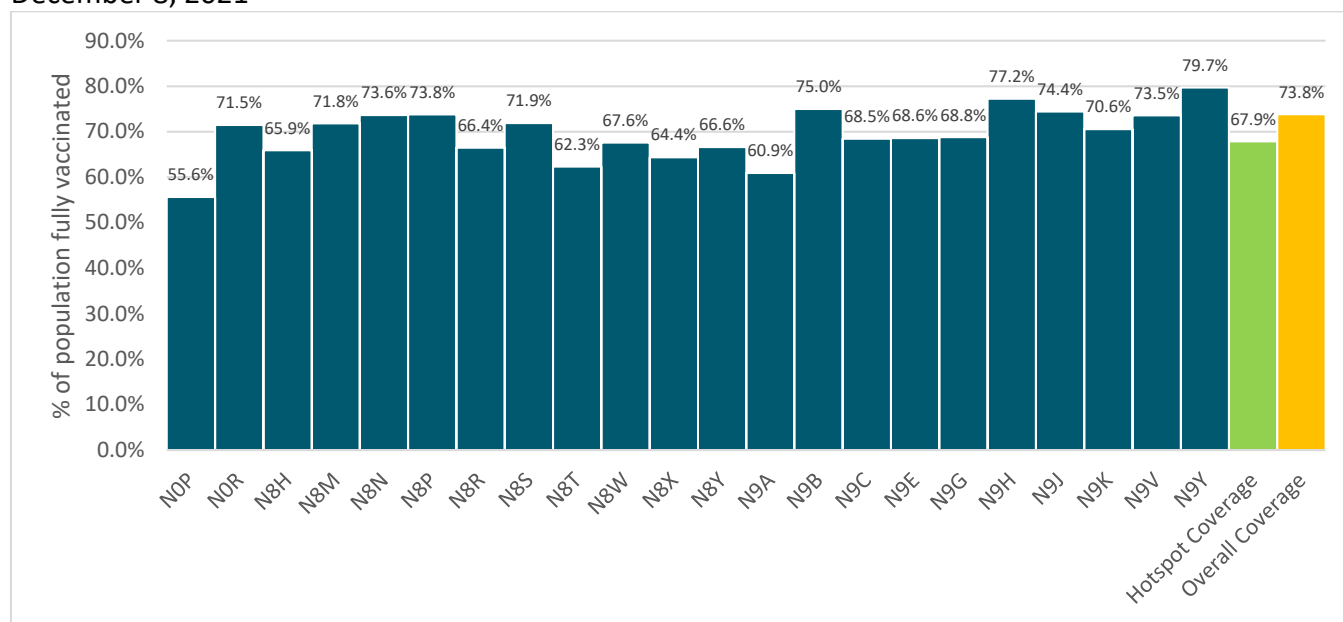


Source: Vaccine administration, Ontario Ministry of Health, IntelliHeath COVaxON. Data extracted on: December 8, 2021.

Fully Vaccinated Coverage Rate by Forward Sortation Area (FSA)

The overall fully vaccinated coverage rate is 73.8% and the coverage rate for those fully vaccinated is 67.9% among the hotspot FSAs. Eight FSAs have a coverage rate that is lower than the overall coverage among hotspot FSAs. Among these, FSA NOP (55.6%), N9A (60.9%) and N8T (62.3%) have the lowest coverage rates in WEC. (Figure 11).

Figure 11. COVID-19 fully vaccinated coverage rate by Forward Sortation Area in Windsor-Essex County: December 8, 2021



Note: Coverage rates by FSA include all Windsor-Essex County residents including children 0 to 4 years of age who are not eligible to receive the vaccine

Source: Vaccine administration, Ontario Ministry of Health, IntelliHeath COVaxON. Data extracted on: December 8, 2021

For more information on local COVID-19 vaccine statistics, please visit:

<https://www.wechu.org/cv/vaccination-stats>