

COVID-19 Windsor and Essex County: March 20, 2020 to July 17, 2020

Purpose

- Providing an epidemiologic summary of COVID-19 activity in Windsor and Essex County (WEC) to date

Source

- Windsor-Essex County Health Unit (WECHU), Infectious Disease Prevention (IDP) databases, extracted by Windsor-Essex County Health Unit [2020/07/16].
- Ontario Ministry of Health, integrated Public Health Information System (iPHIS) database, extracted by Windsor-Essex County Health Unit [2020/07/16].
- Ontario Agency for Health Protection and Promotion (Public Health Ontario). Epidemiologic Summary: COVID-19 in Ontario – January 15, 2020 to July 15, 2020). Toronto, ON: Queen's Printer for Ontario; 2020.

Highlights

- At the time of reporting, there are 1,857 confirmed cases of COVID-19 in WEC between March 20th and July 16th.
- The majority of cases in June and July have been from the agri-farm sector
- Based on the 7-day moving average, WEC remains high when looking at all cases in the community.
 - If agri-farm workers are excluded, the 7-day moving average stabilizes to approximately six cases
- As of July 16th, there were 308 cases in long-term care and retirement homes (including staff and residents).
- Windsor and Essex County has the 2nd highest incidence rate in the province and is higher than the Ontario rate.
- In the last two weeks, 81% of the cases reported were among males and 19% were among females.
 - 64% of the cases during this time period were among adults 20 to 39 years of age.
- Overall, the majority of the cases are from Leamington (36%), followed by Windsor (33%) and Kingsville (21%)
 - In the past 30 days, however, 47% of the cases have been from Leamington and 34% from Kingsville
 - In the past 7 days, however, 42% of the cases have been from Windsor, 34% from Kingsville and 17% from Leamington.
- The majority of cases identified are due to close contacts with individuals that were positive for COVID-19.
- Coughing (64%) was the most commonly reported symptom among cases with COVID-19 followed by fever (50%), headache (48%) and fatigue (44%).
- COVID-19 cases that are hospitalized have declined sharply in the June have been low in July

- ICU cases have been low to zero in the same timeframe.
- Approximately 28% of cases are still in self-isolation while 67% of cases have resolved.
- The overall case fatality rate in WEC is 3.7%, lower than the province (7.4%).
- The day-over-day doubling time has been trending positively in Canada and in Ontario. In Windsor-Essex, the day-over-day doubling time has varied due to the number of agri-farm cases.
- The mean R_0 (effective) value is 0.55 and has decreased from last week.
 - However, for the past month we have seen fluctuations with this number.



COVID-19 *LIVE UPDATE*

July 17, 2020

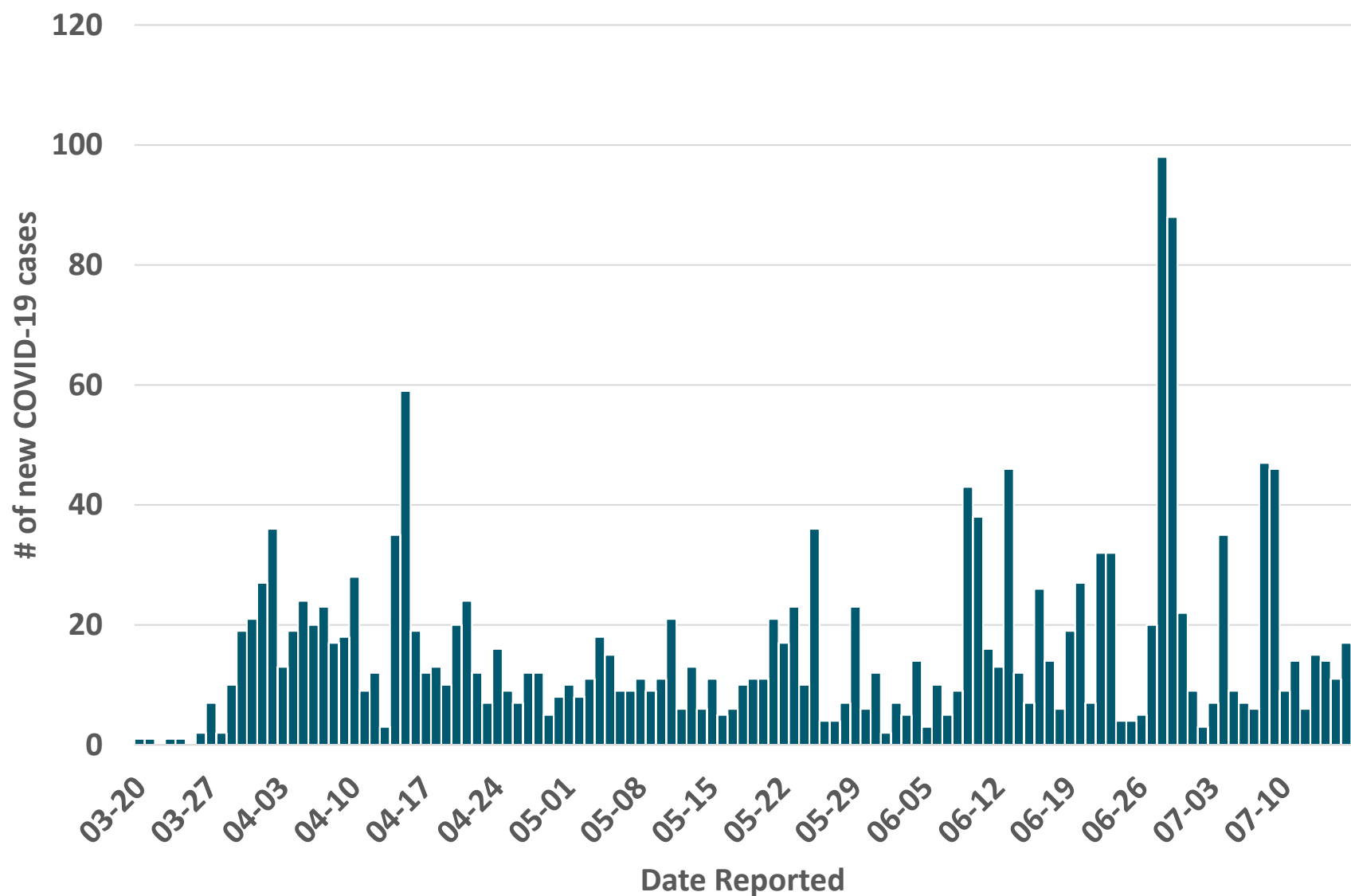
FOR UP-TO-DATE
CASE NUMBERS
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COVID-19 Epidemiological Summary

Content covered:

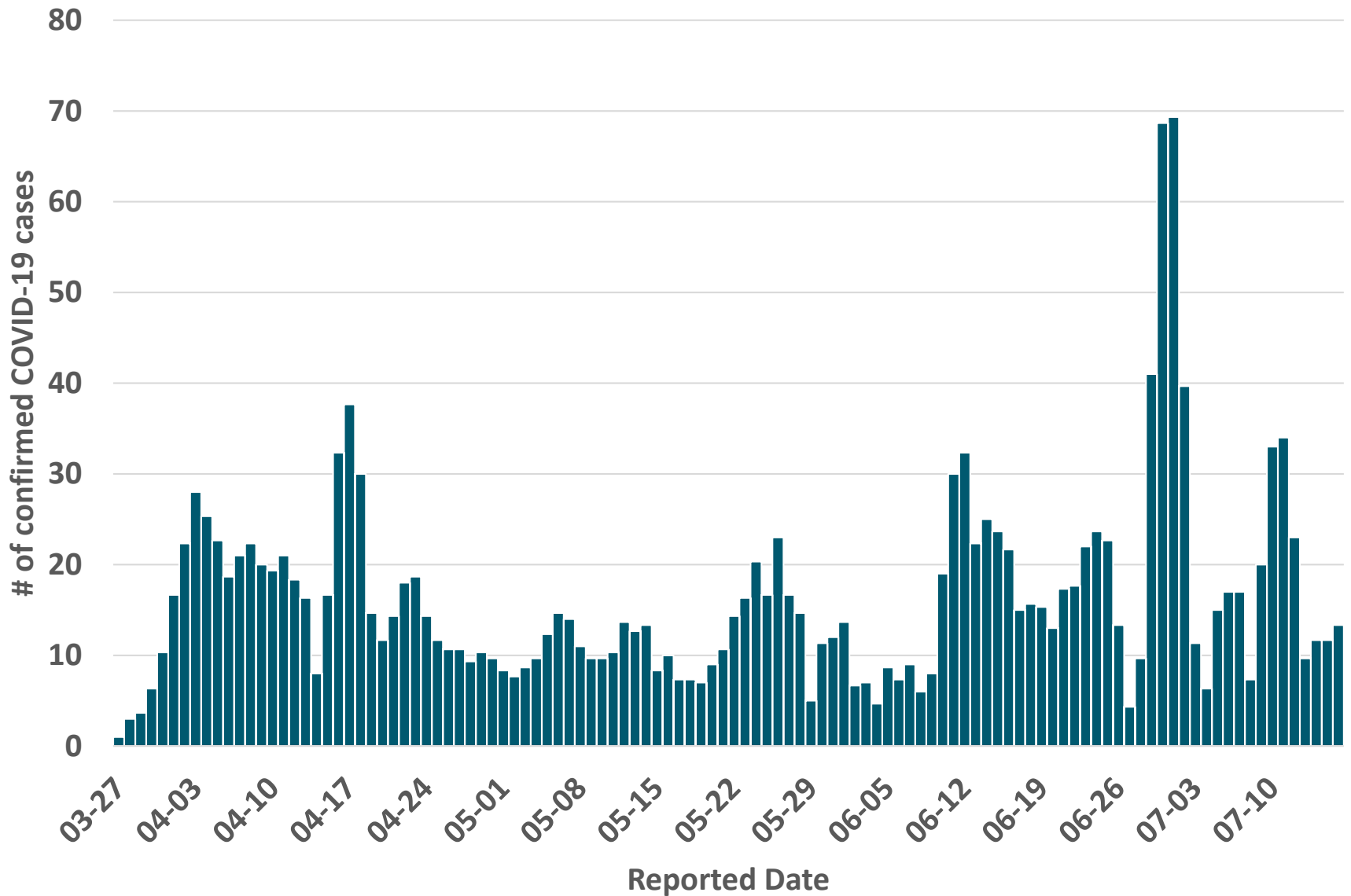
- Epidemic curves
- Regional & provincial rates
- Positive test turnaround time
- Case investigation time
- Age & sex distribution
- Distribution by municipality
- Exposure history
- Healthcare worker status
- Underlying conditions
- Top symptoms
- Hospitalizations & ICU
- Healthcare system capacity
- Current outcomes
- Breakdown by deaths
- Doubling time
- Mean R_0 (effective)

Epidemic Curve by Reported Date



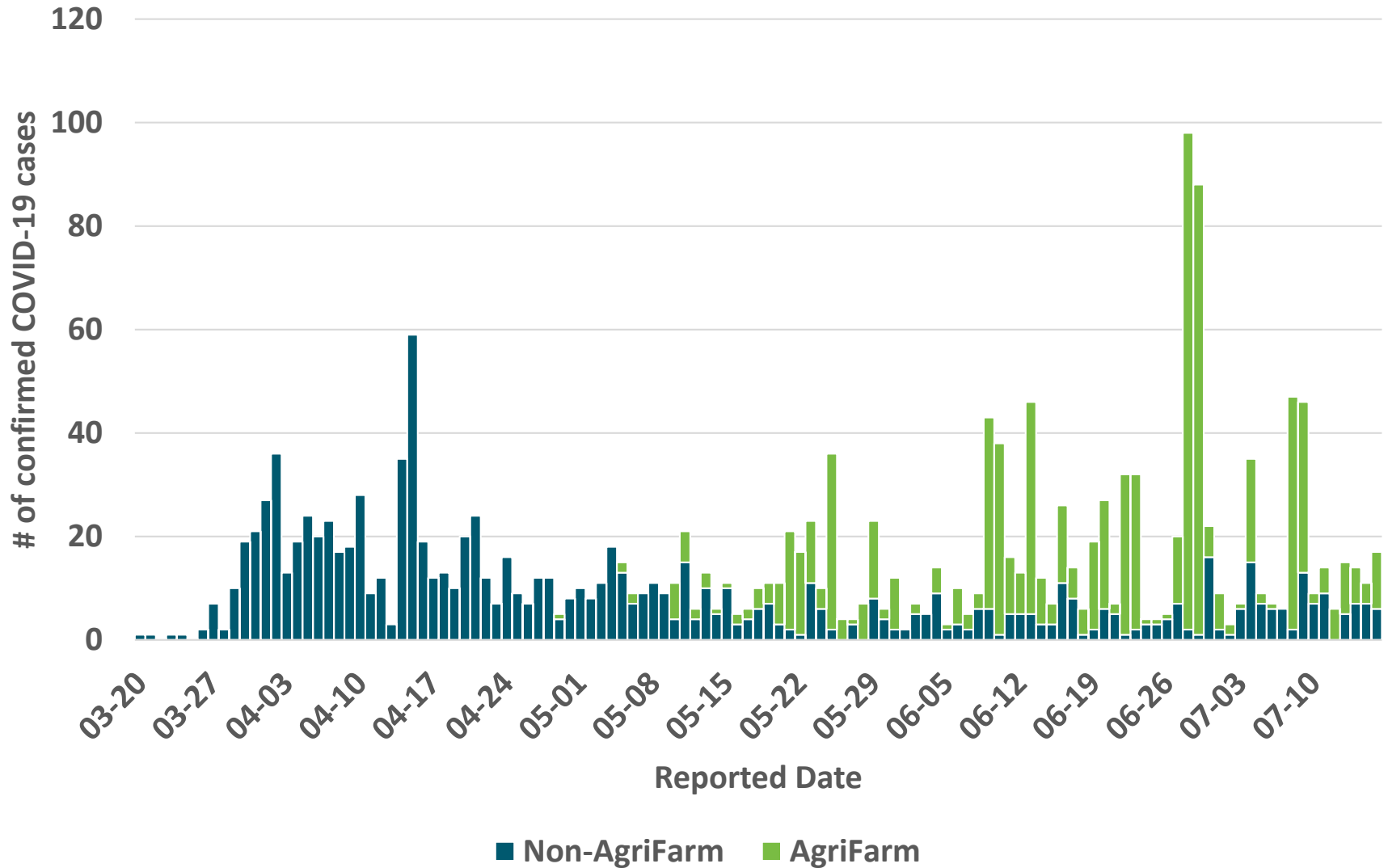
2020-07-21

Epidemic Curve by 3-Day Moving Average by Reported Date



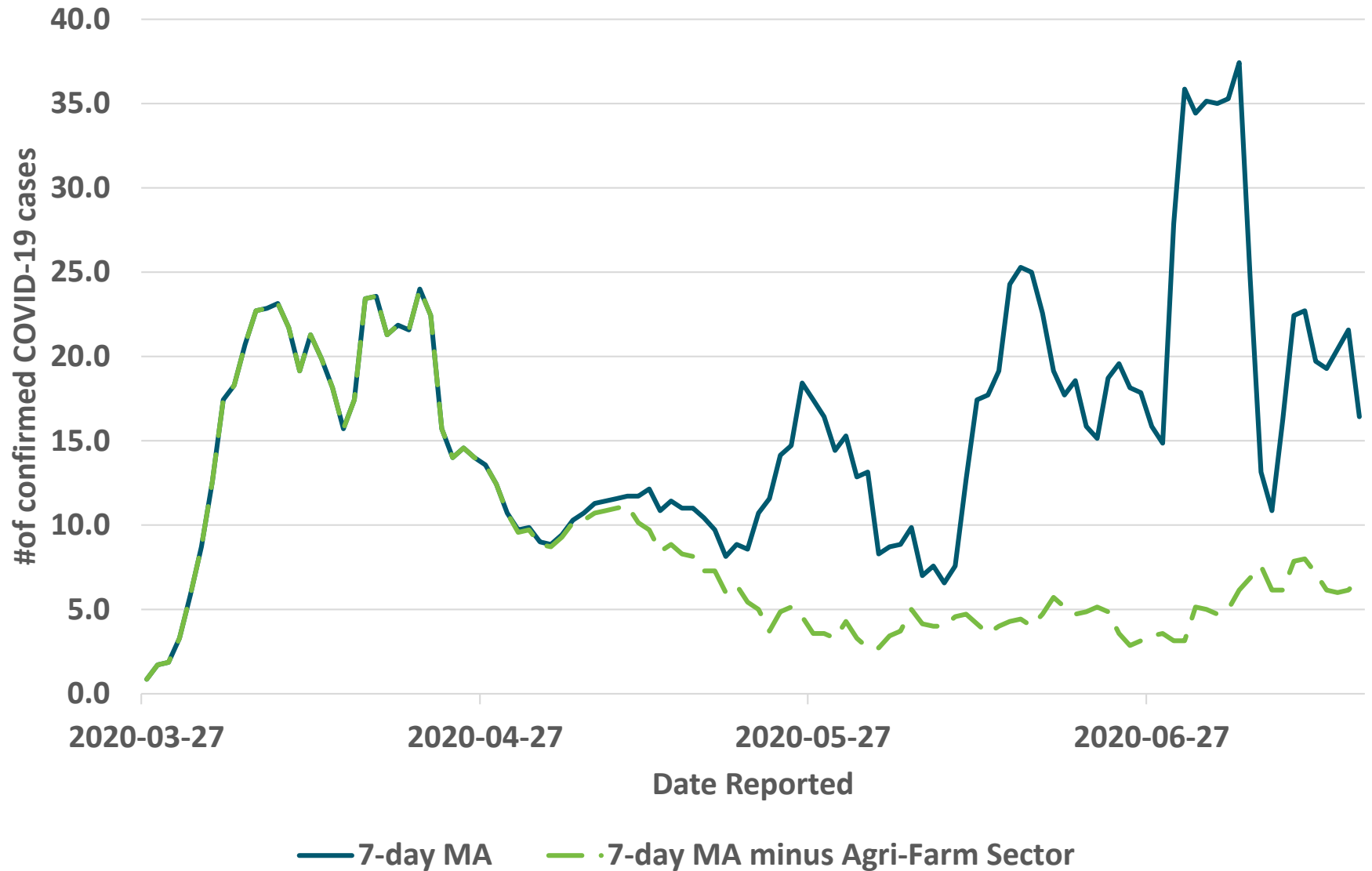
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Epidemic Curve by Agri-Farms Versus Non-Agri-Farm Cases by Reported Date



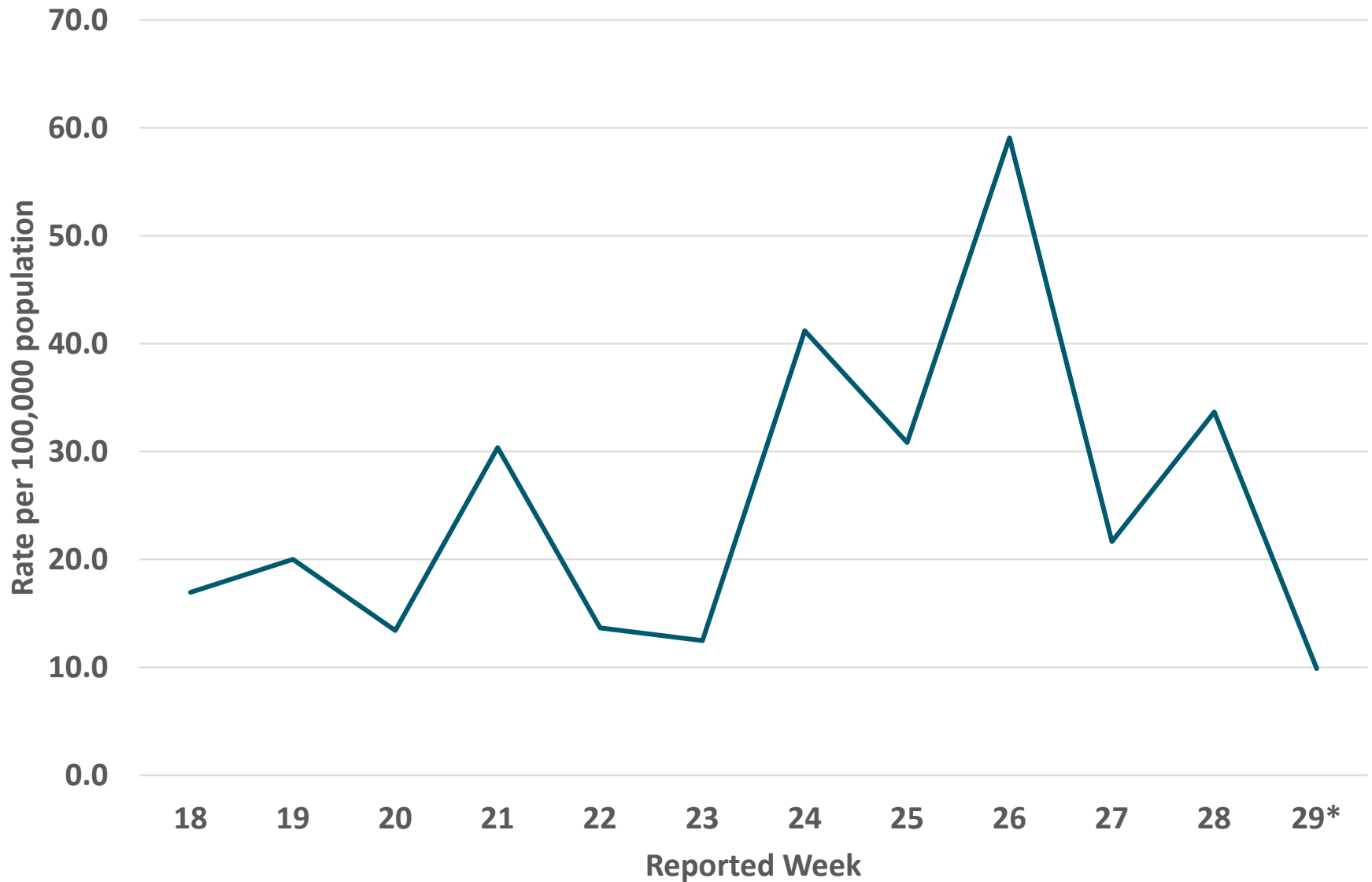
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7-Day Moving Average by Reported Date



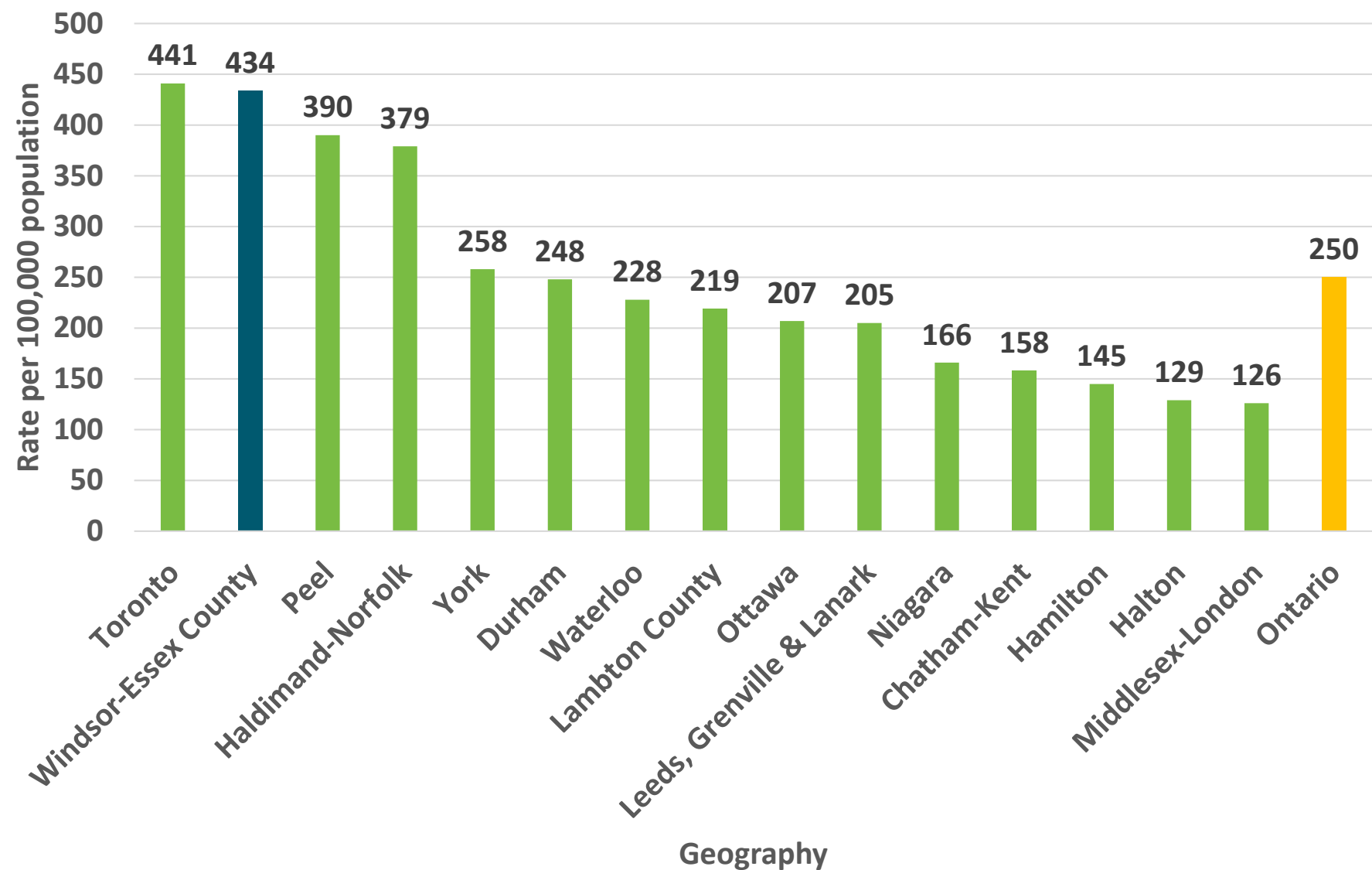
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Windsor-Essex Rate by Reported Week

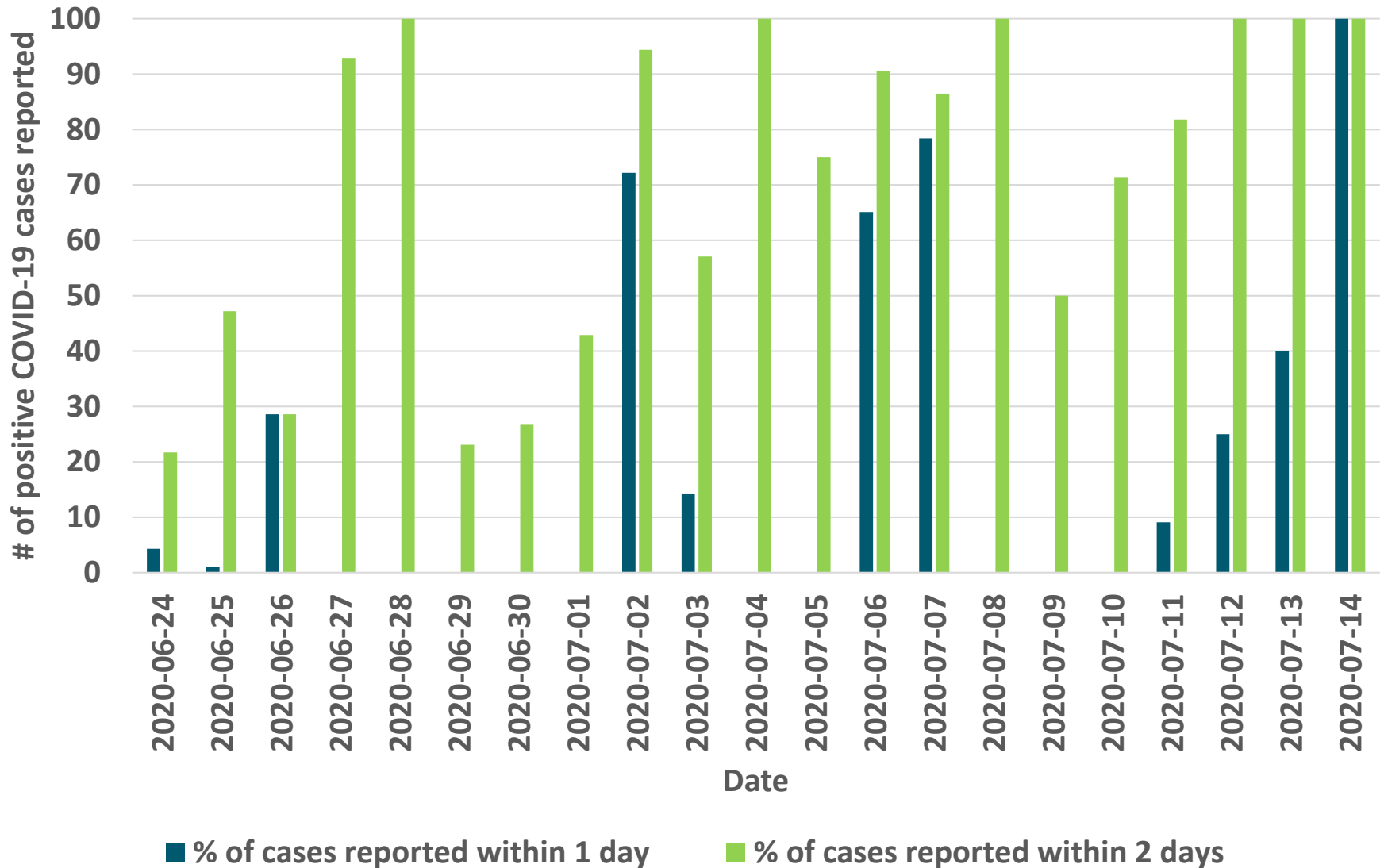


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Regional & Provincial Rates

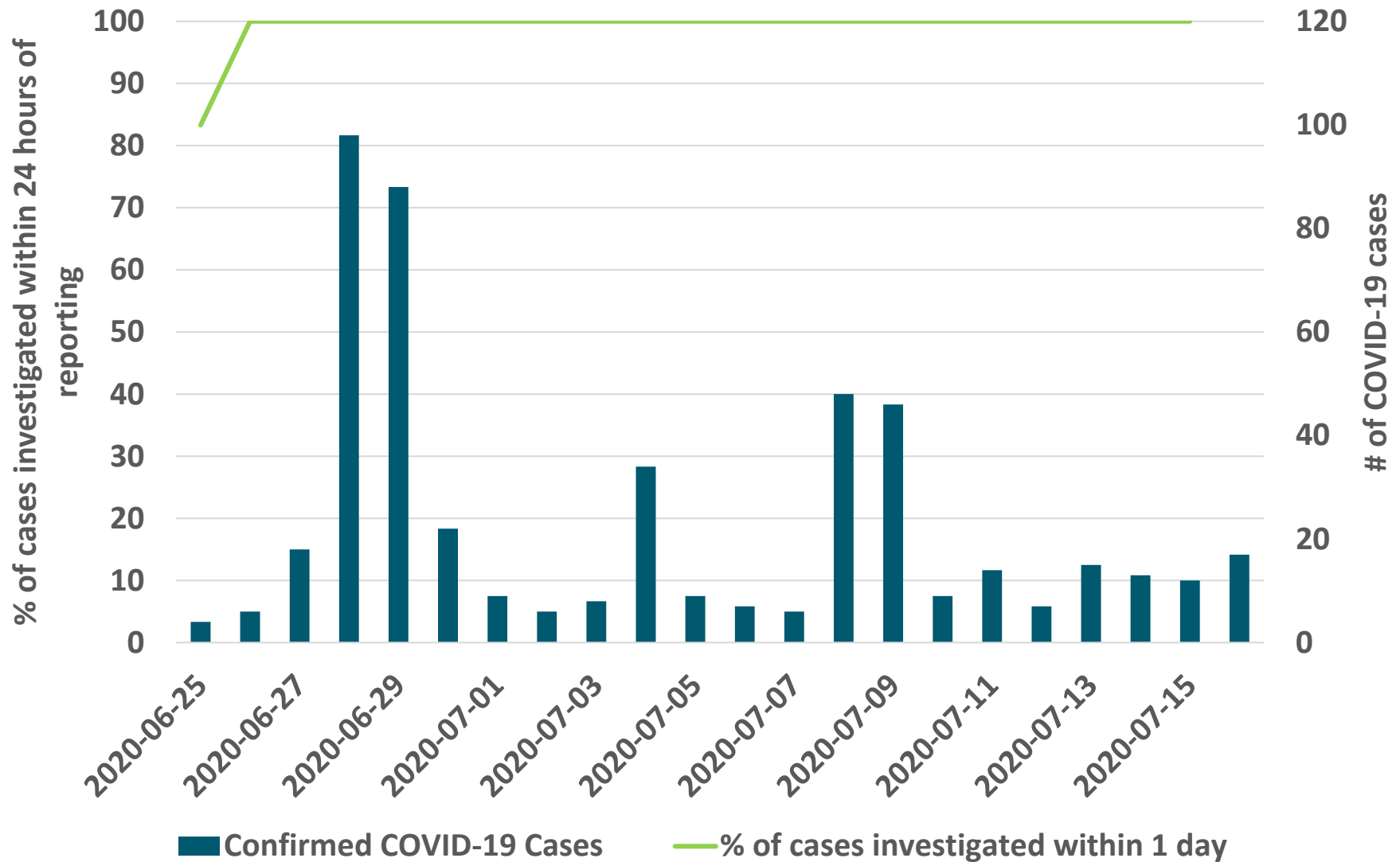


Percentage of positive tests reported in one and two days of test date



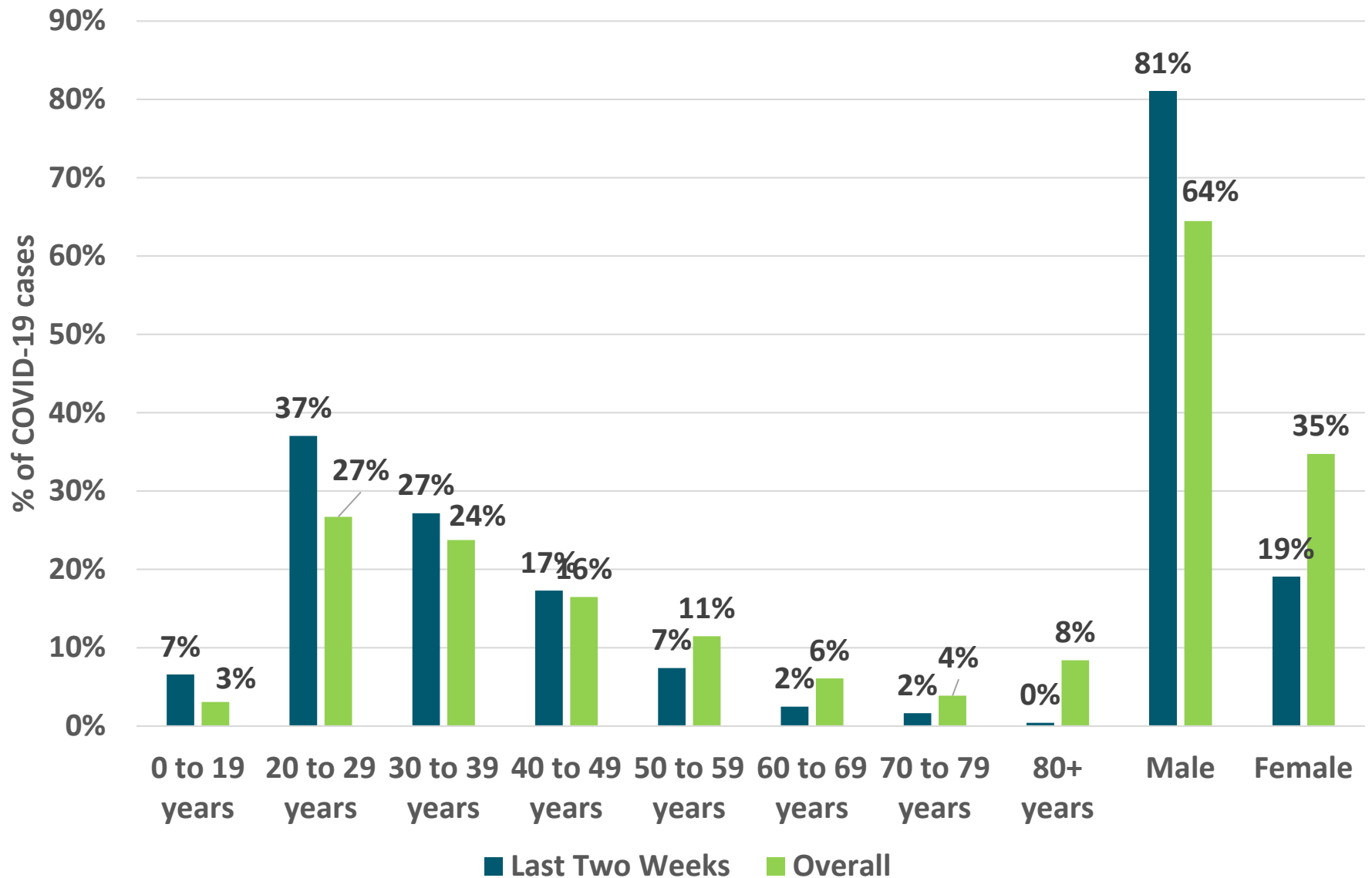
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Percent of New Cases Investigated Within 24 Hours of Reported Date

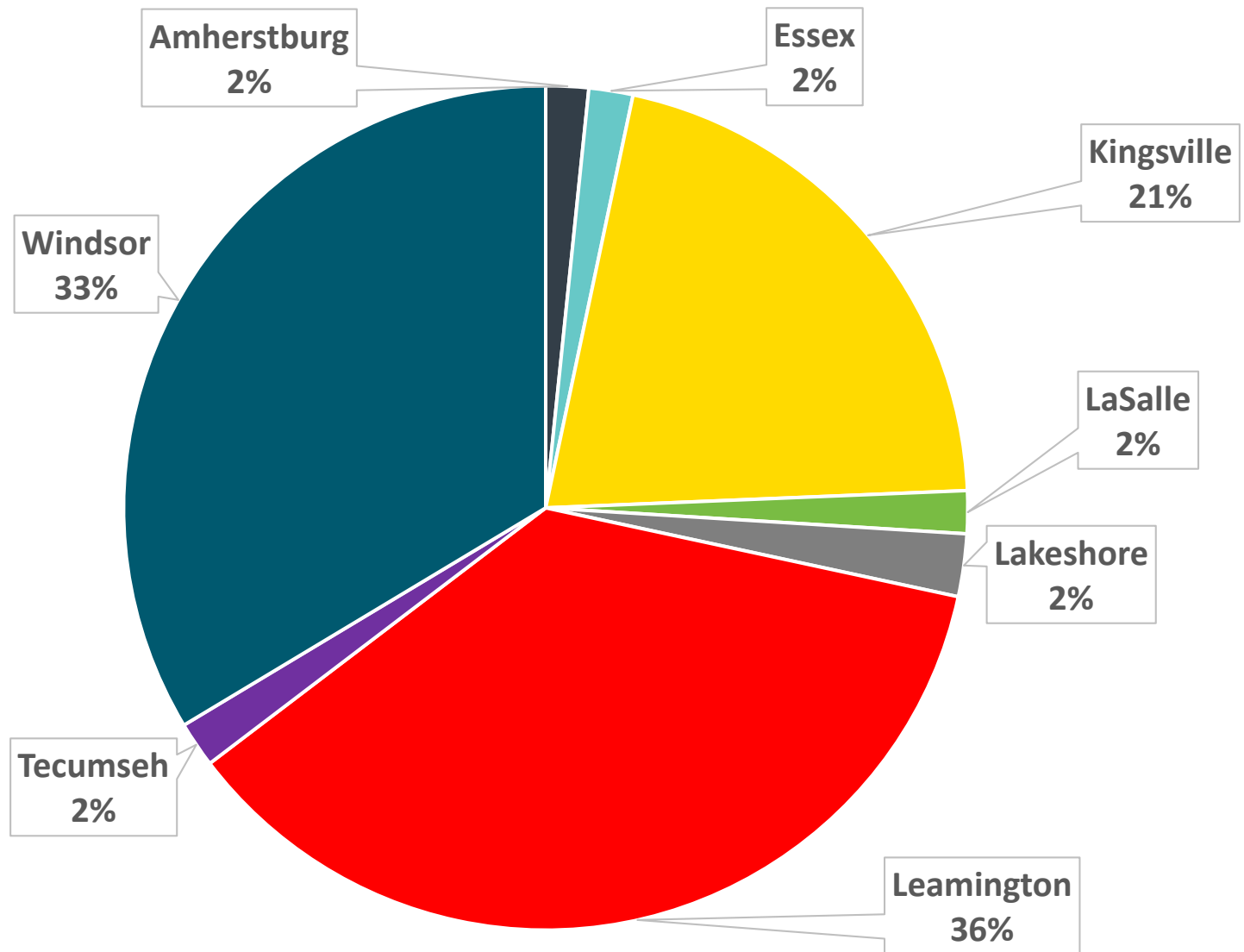


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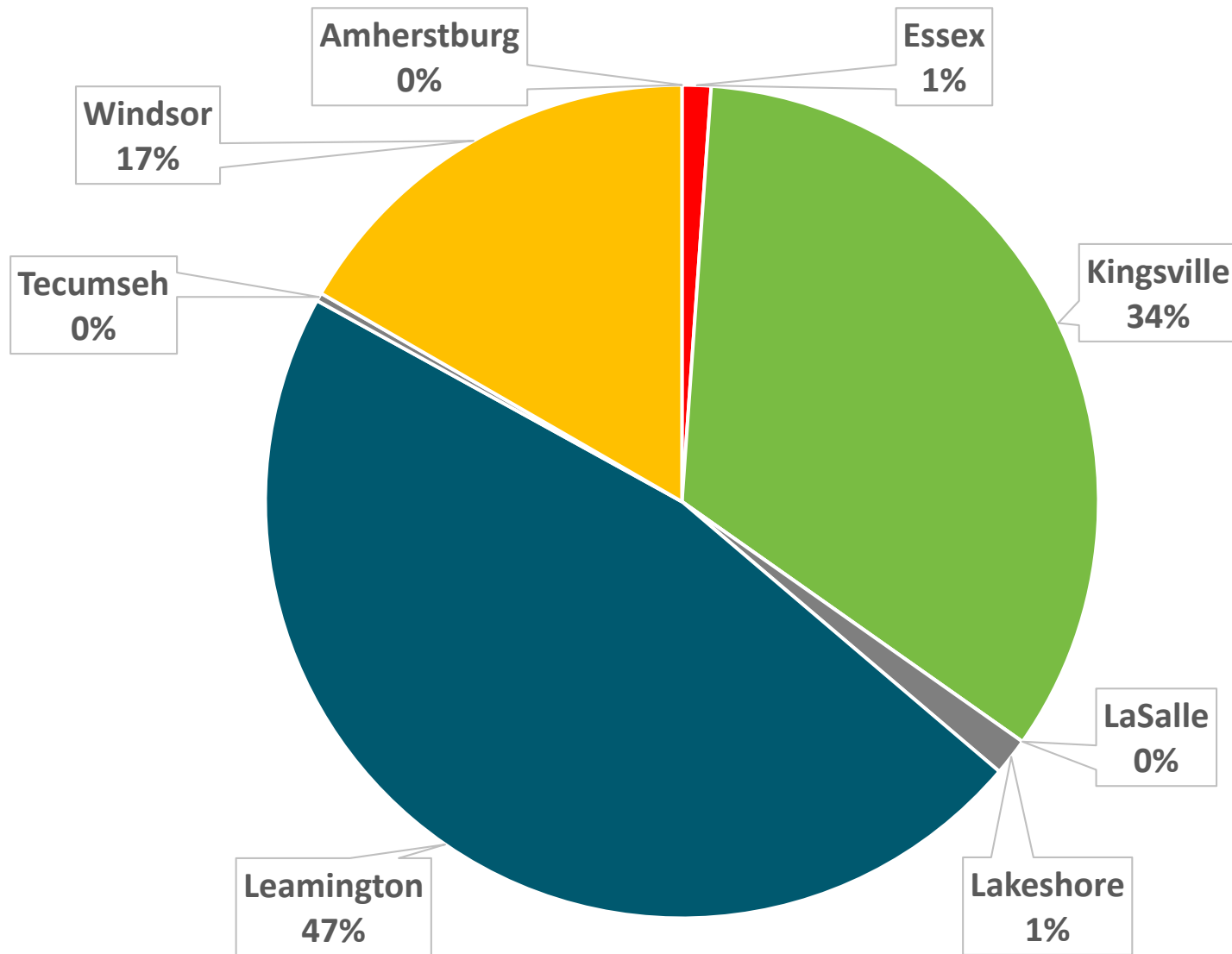
Age & Sex Distribution



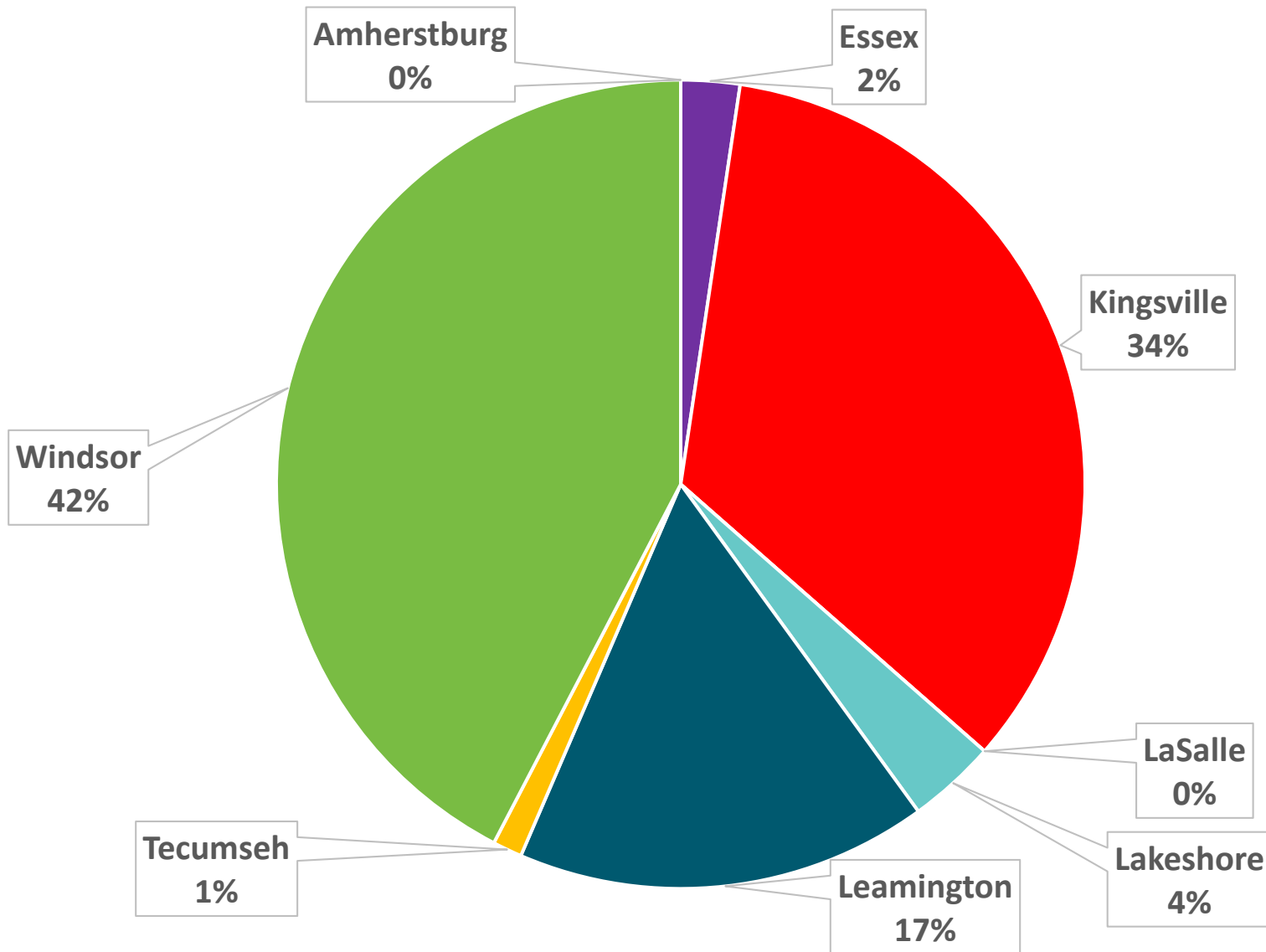
Distribution of COVID-19 Cases by Municipality



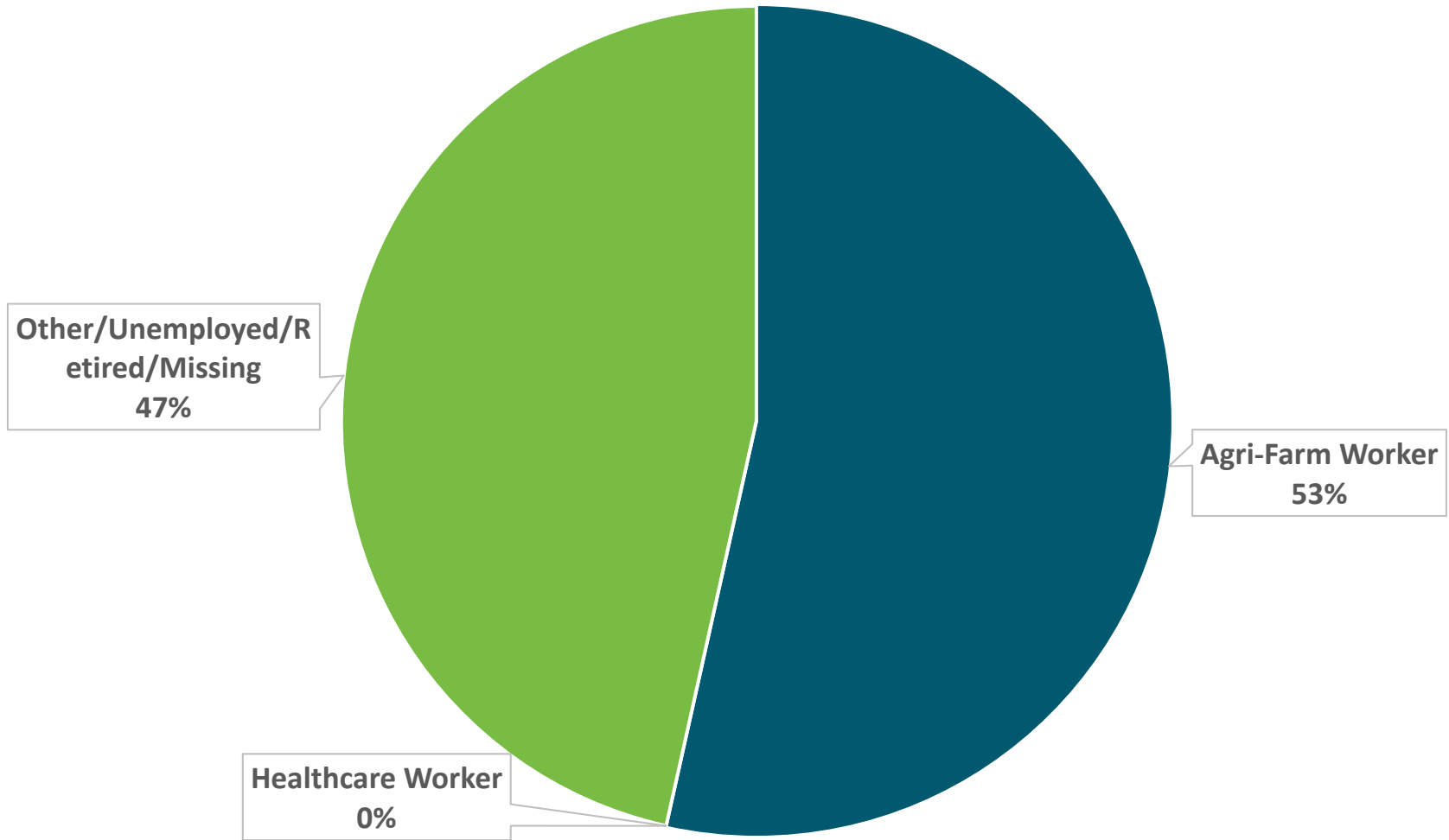
Distribution of COVID-19 Cases by Municipality in last 30 days (June 16th to July 15th)



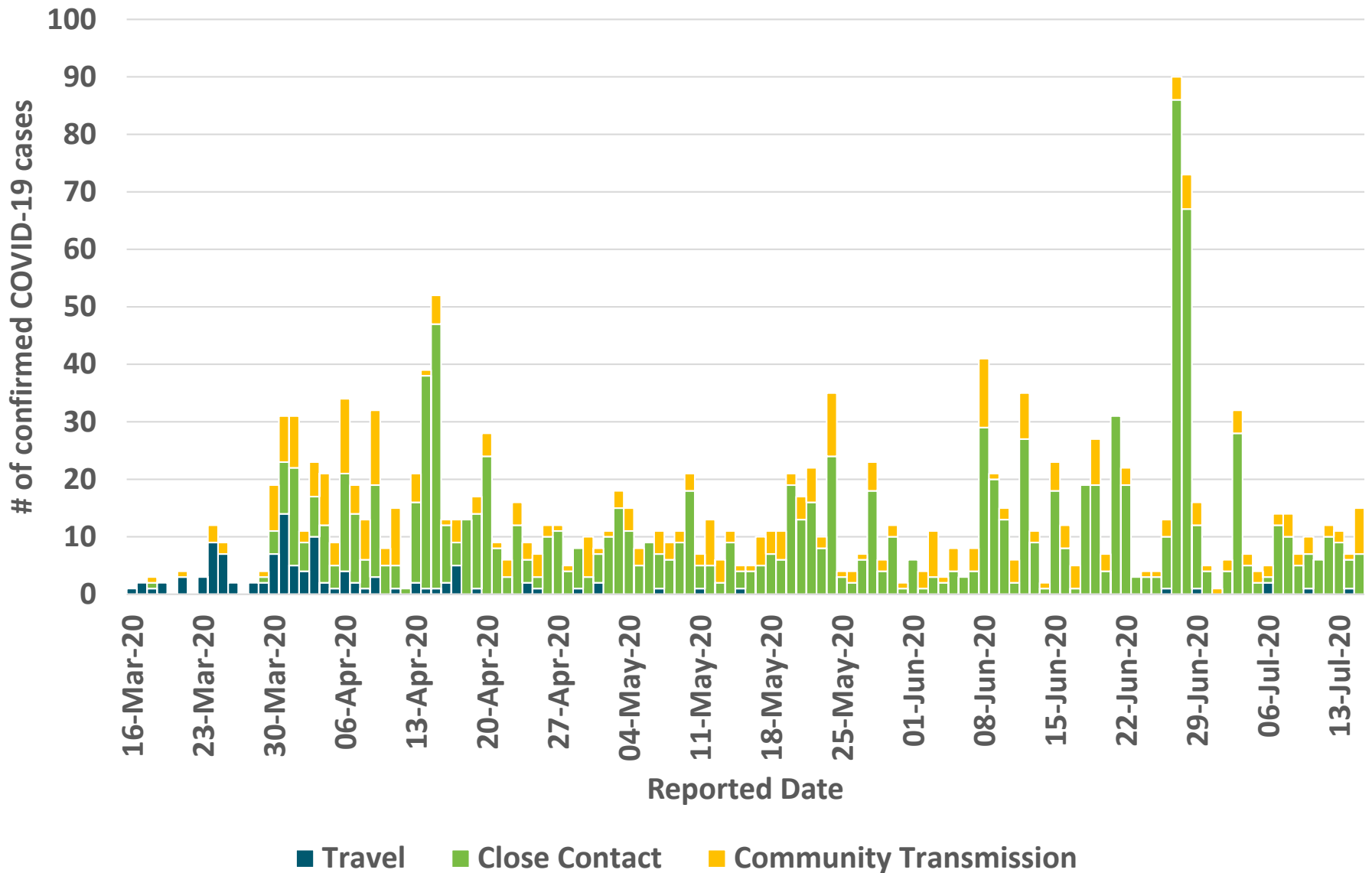
Distribution of COVID-19 Cases by Municipality in last 7 days (July 9th to July 15th)



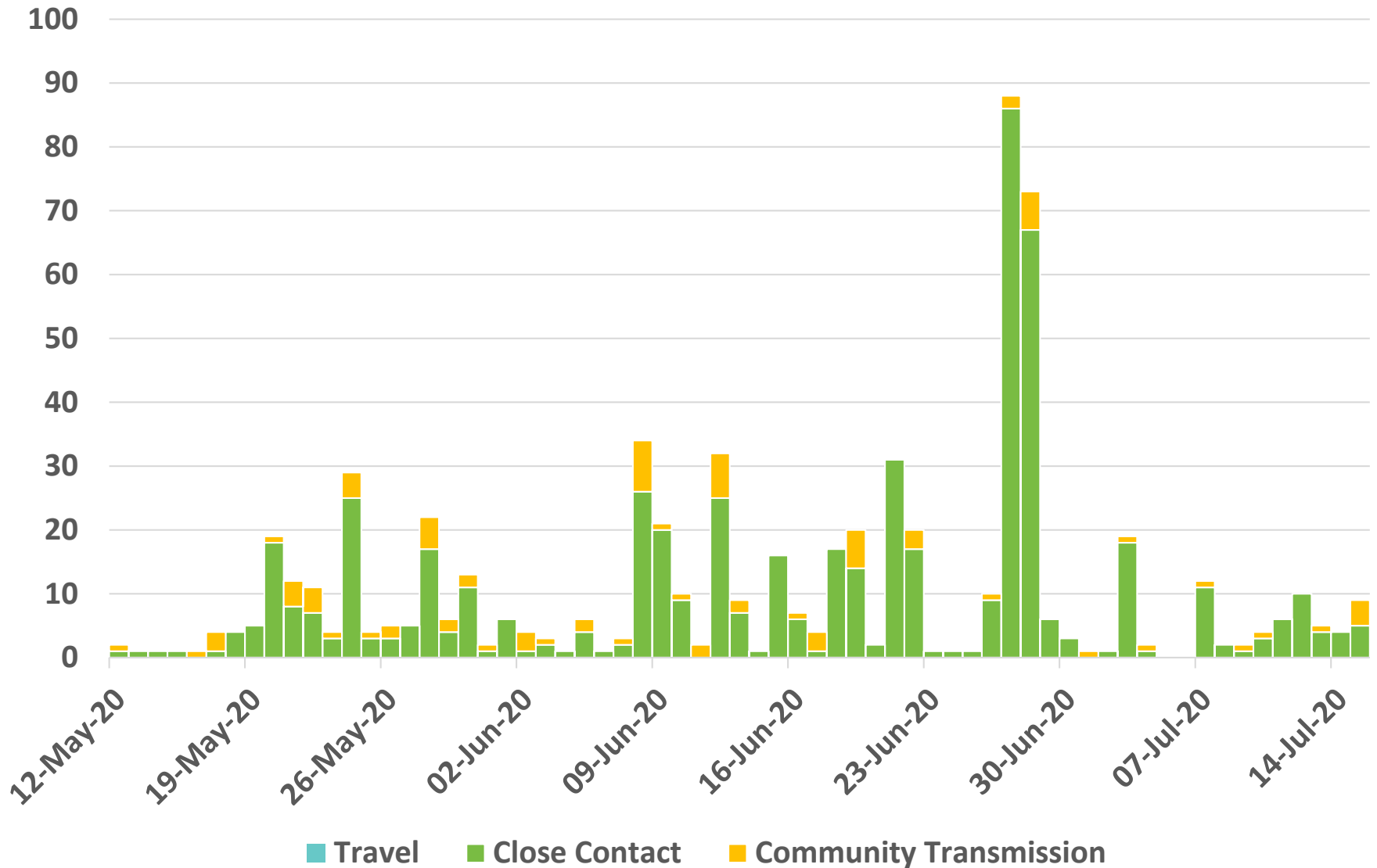
Distribution of COVID-19 Cases by Occupation in the last 7 days (July 9th to July 15th)



Exposure History by Reported Date

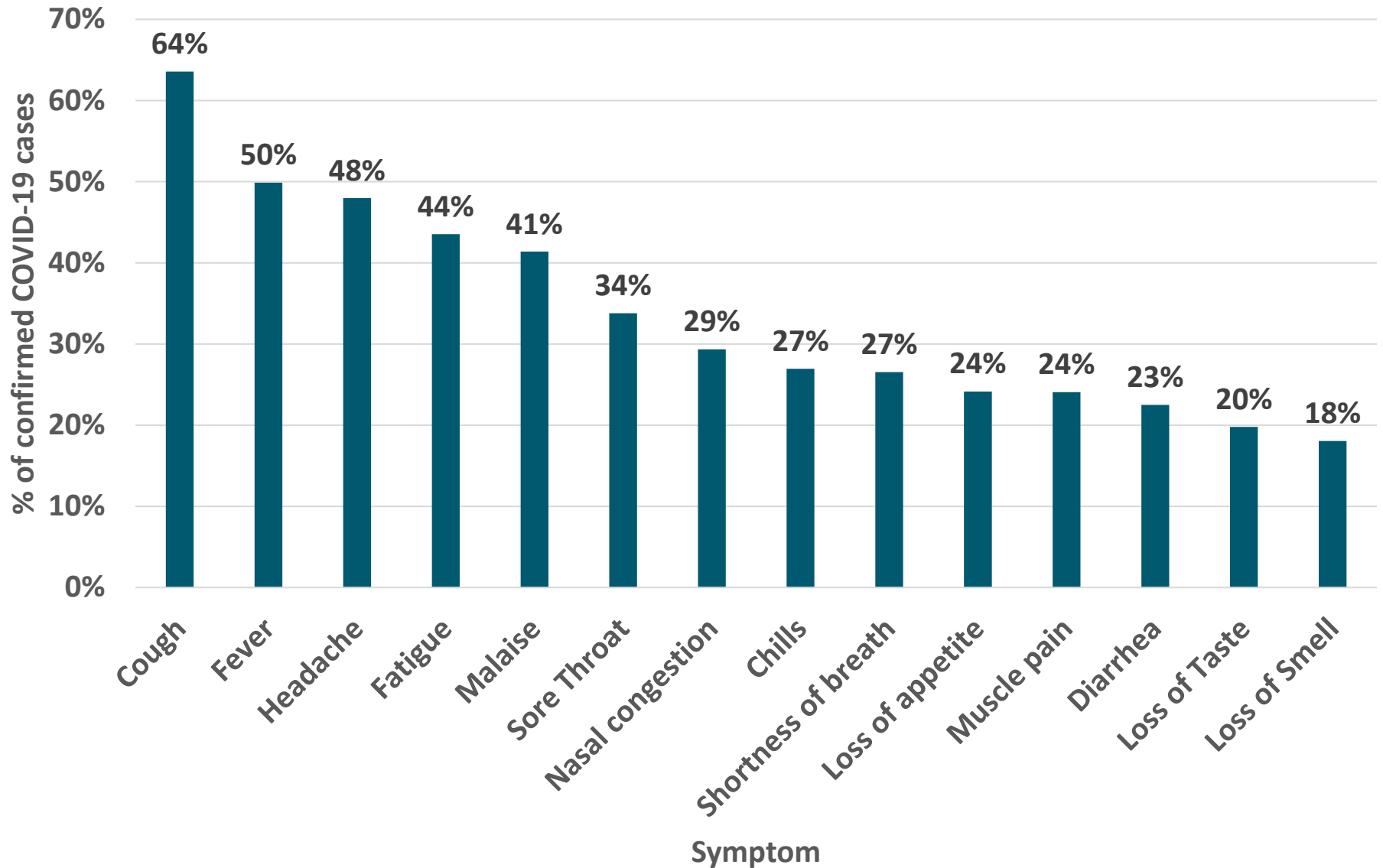


Exposure History by Reported Date Among Agri-Farm Workers

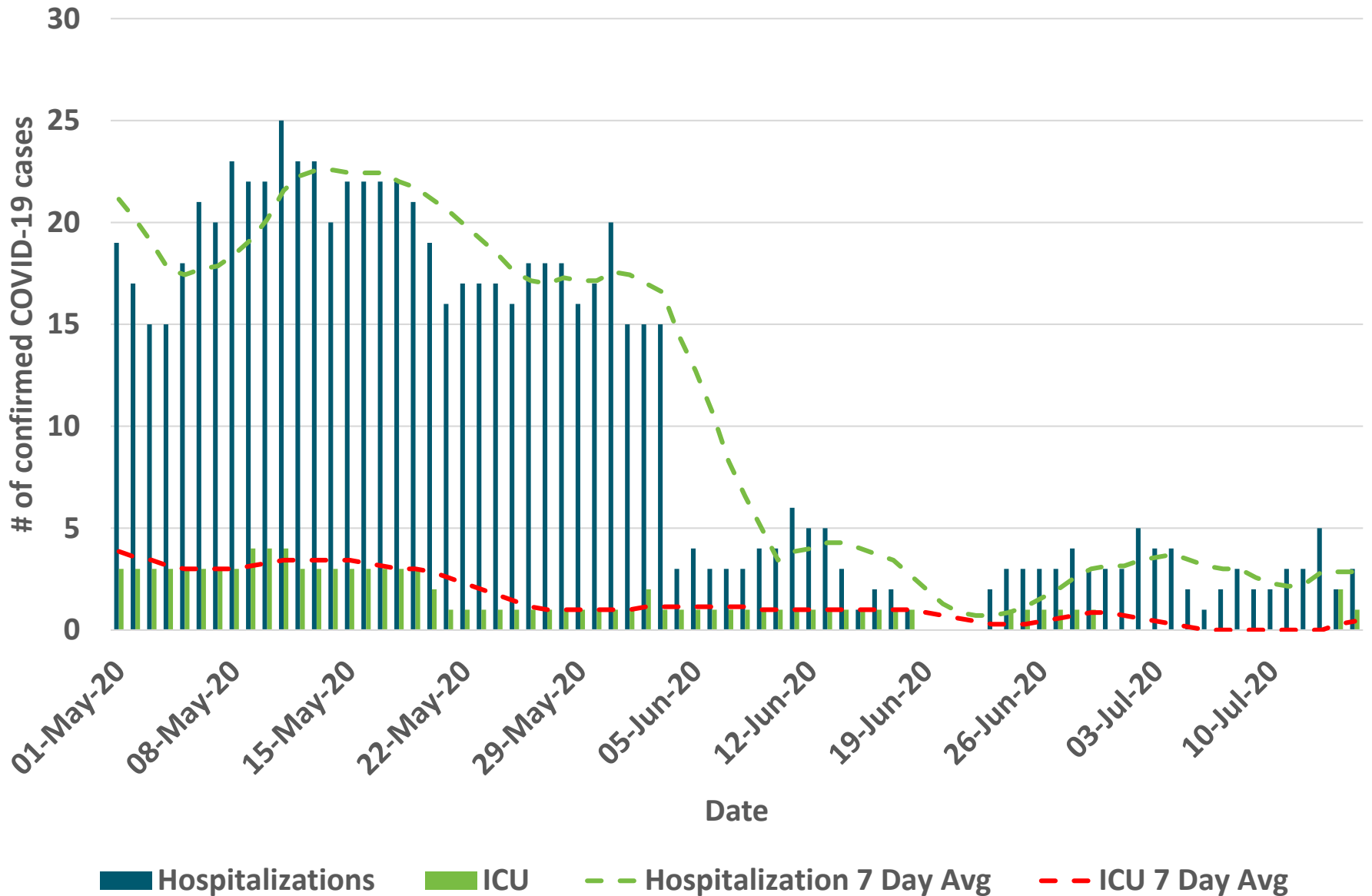


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Most Common Symptoms

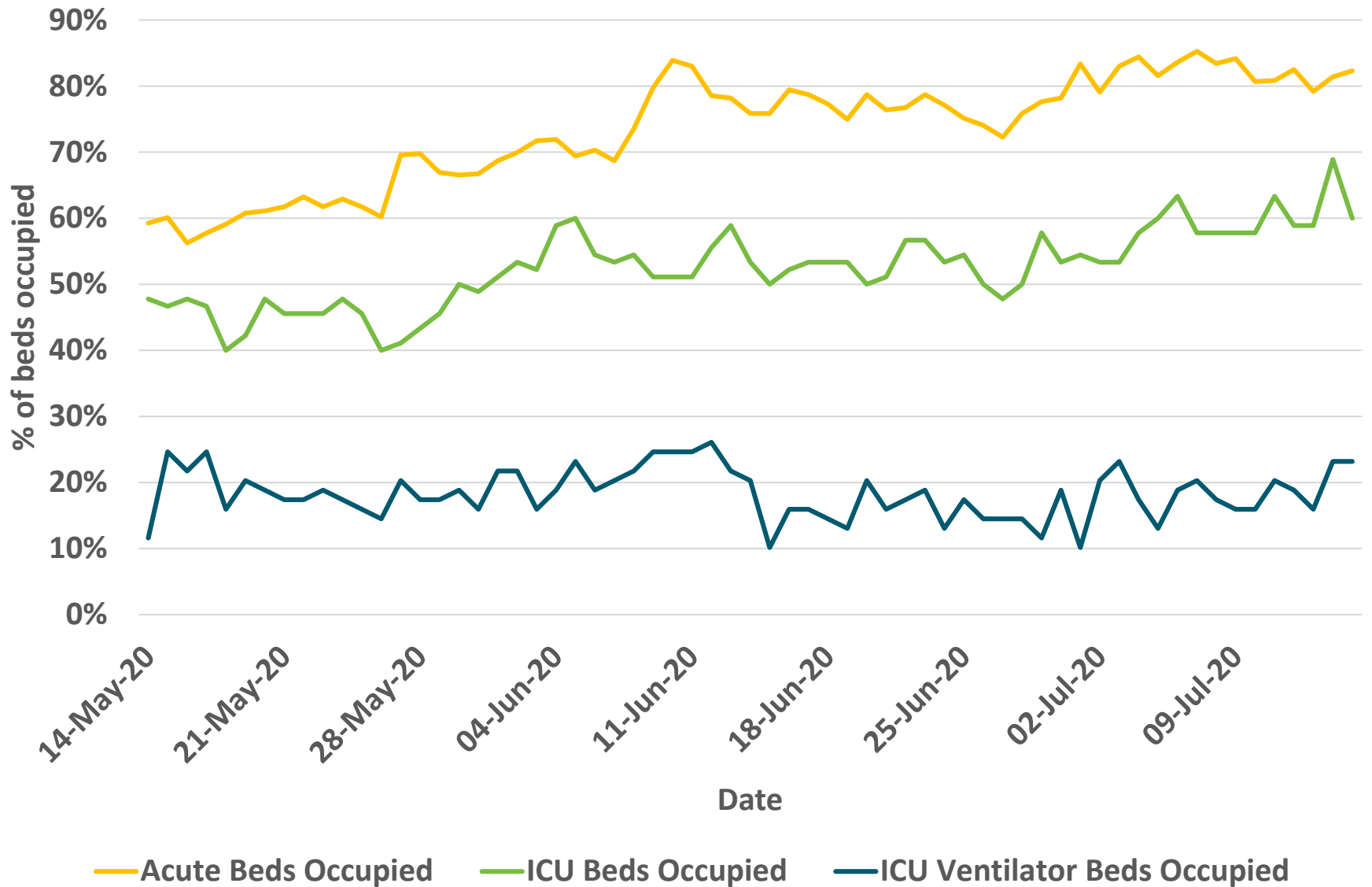


Hospitalizations & ICU for COVID-19



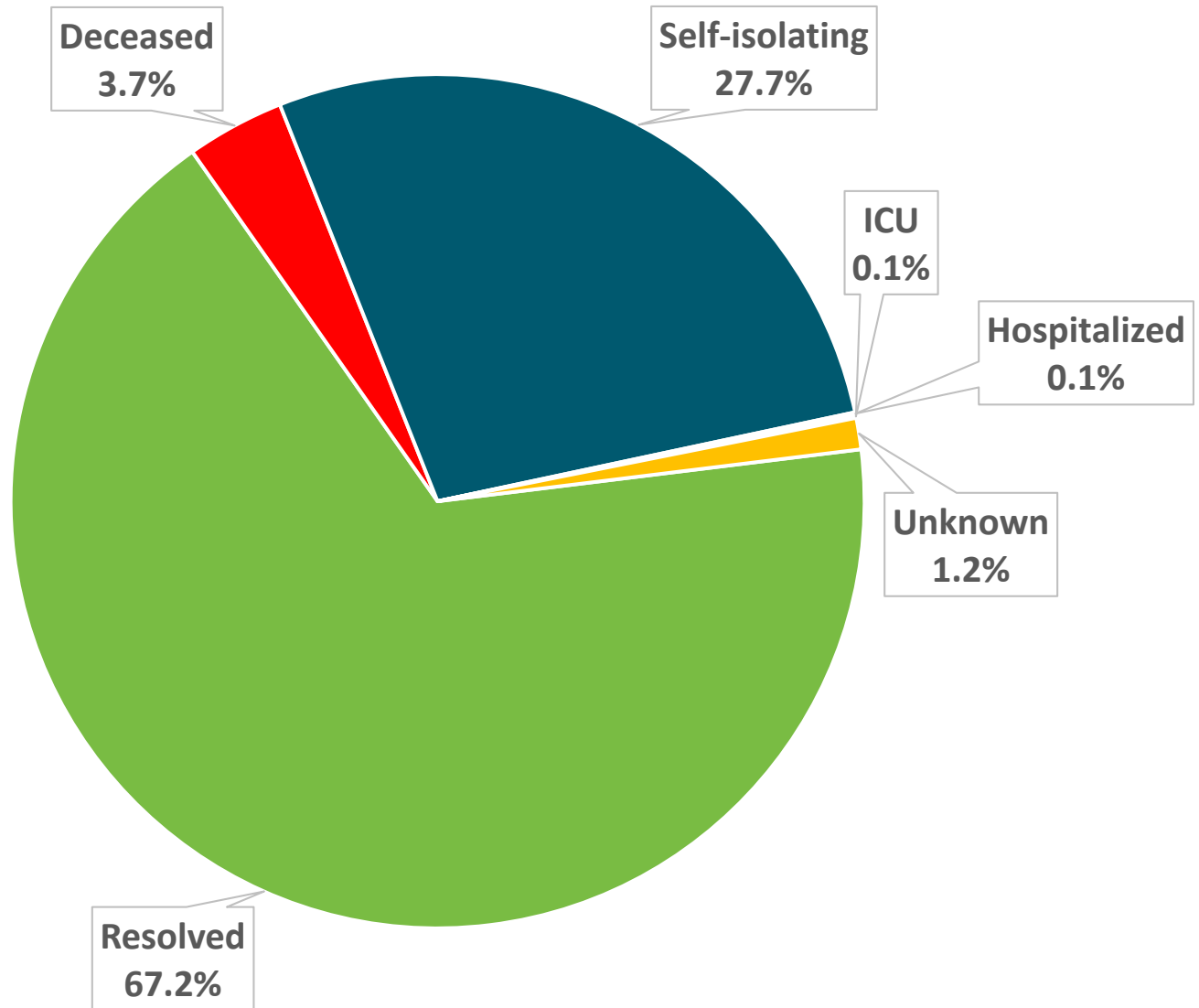
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Health Care System Capacity

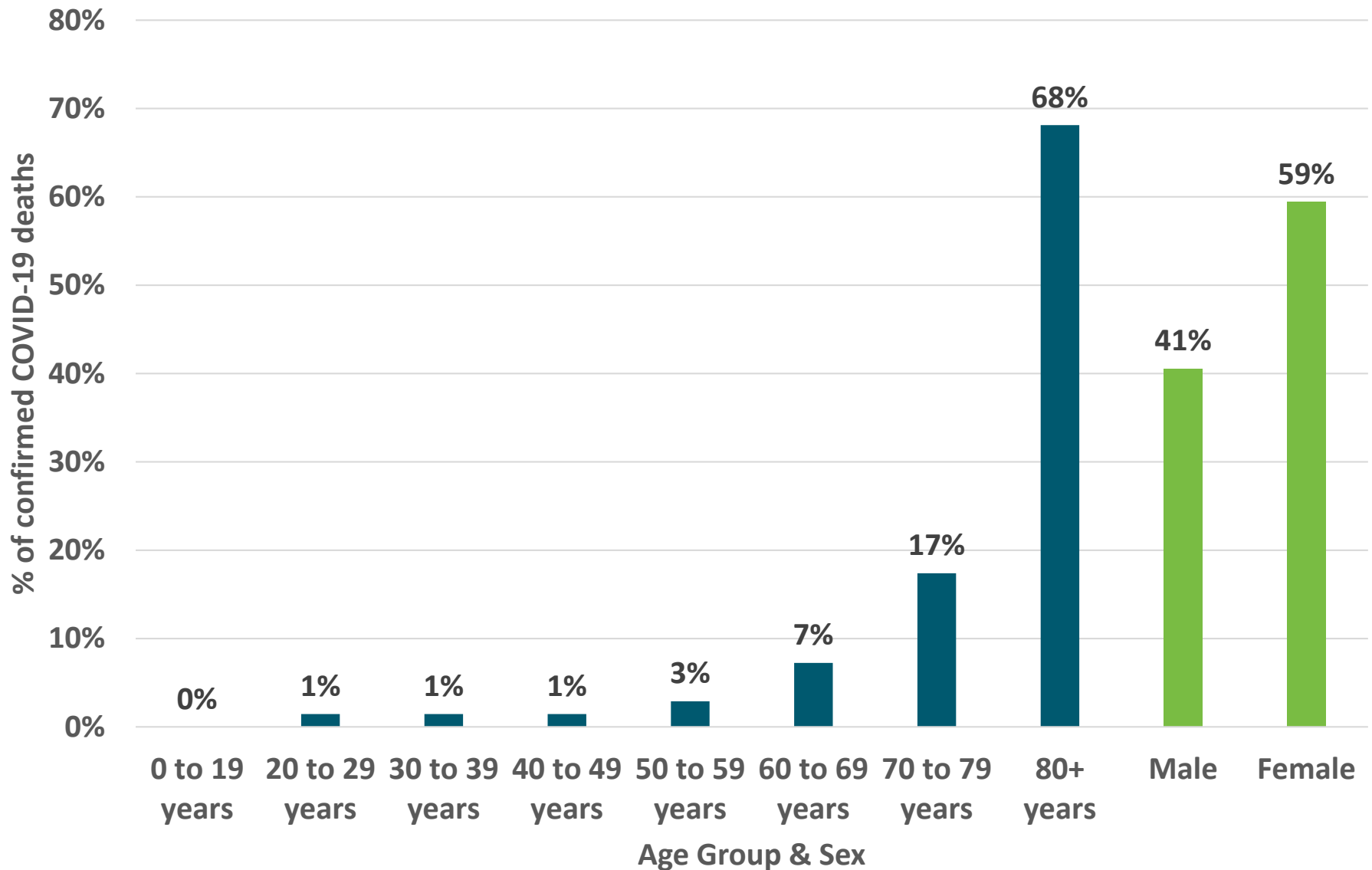


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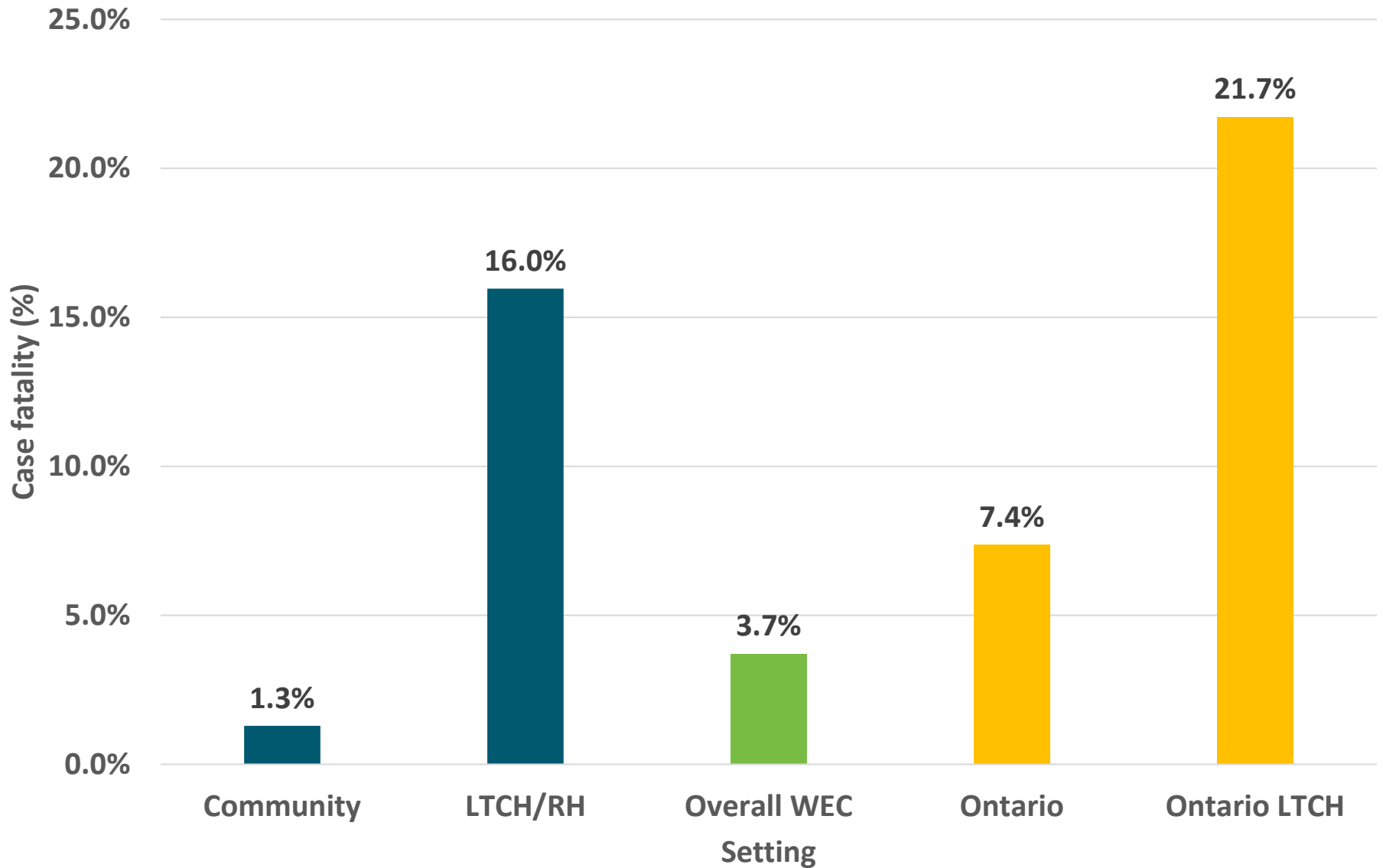
Current Outcomes



Age & Sex Breakdown of COVID-19 Deaths



Case Fatality Rate

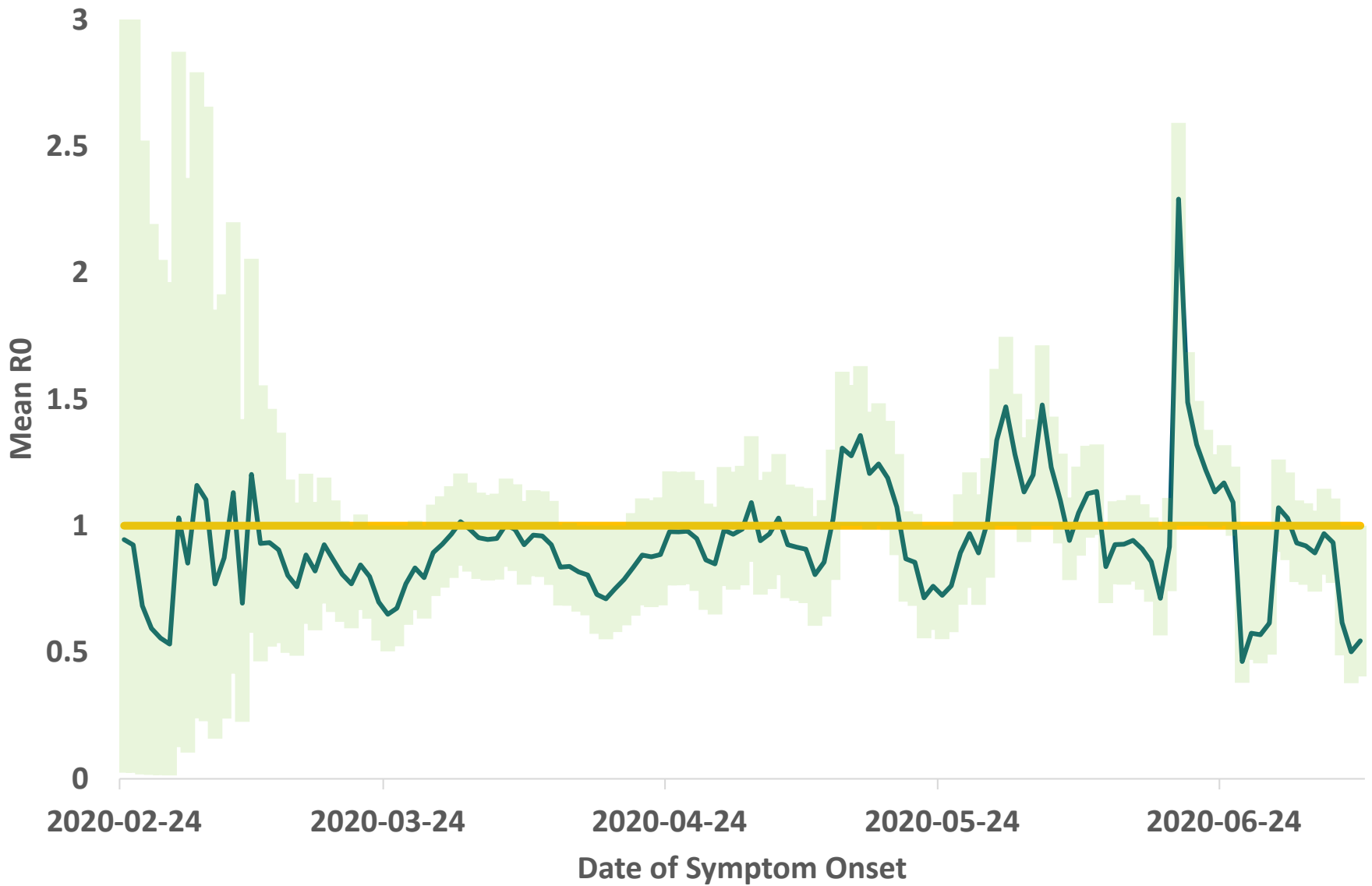


Doubling Time (Day over Day Comparison)



2020-07-21

Mean R0 (Effective)



2020-07-21

Summary

- Case counts in Windsor-Essex has stabilized to approximately 12 cases per day in the last week
 - The majority of cases are still from the agri-farm sector
- The primary source of exposure is through close contact with a confirmed case
- COVID-19 related hospitalizations and ICU capacity have decreased dramatically in June
- R_0 (effective) value is 0.55 indicating a decrease in transmission in Windsor-Essex
 - BUT we have seen variations in the past 1.5 months