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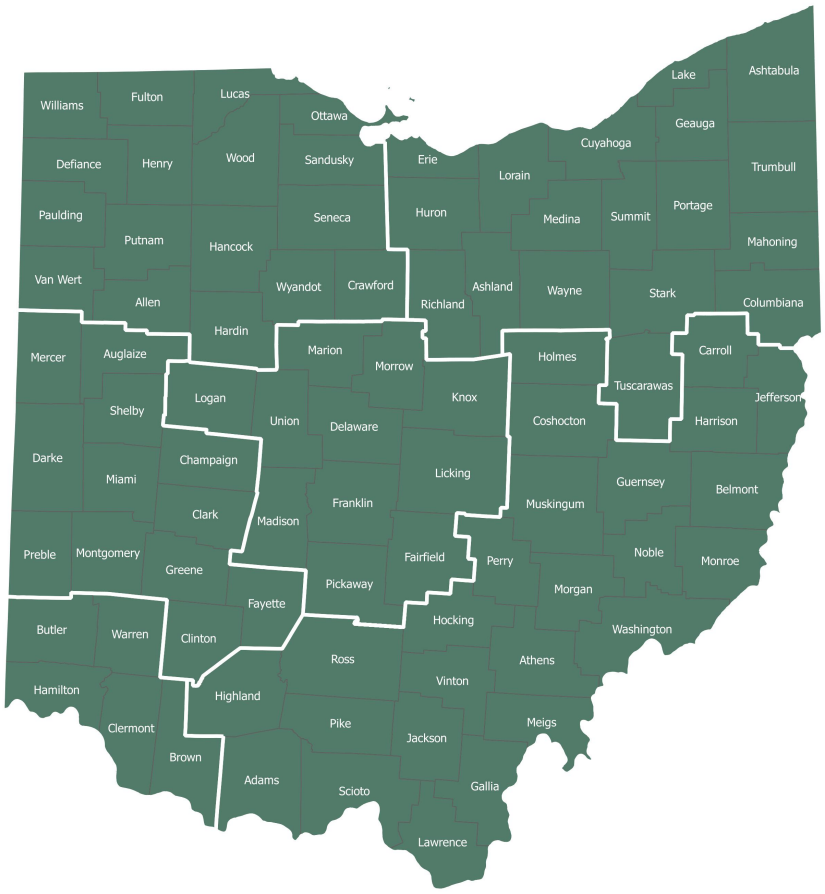
# Map of Ohio by Region

*The following presentation summarizes Ohio COVID-19 data obtained from the Department of Health COVID-19 warehouse. Data for the state of Ohio and Fairfield County are presented. In addition to descriptive reports for the state and individual counties available on the state website, the Ohio Alliance for Innovation in Population Health has summarized trends by region of state and has calculated county level outcome indicators that measure disease transmission, population susceptability to adverse outcomes and the effectiveness of health systems at mitigating the effects of COVID-19. These measures will be explained at greater length later in this report.*

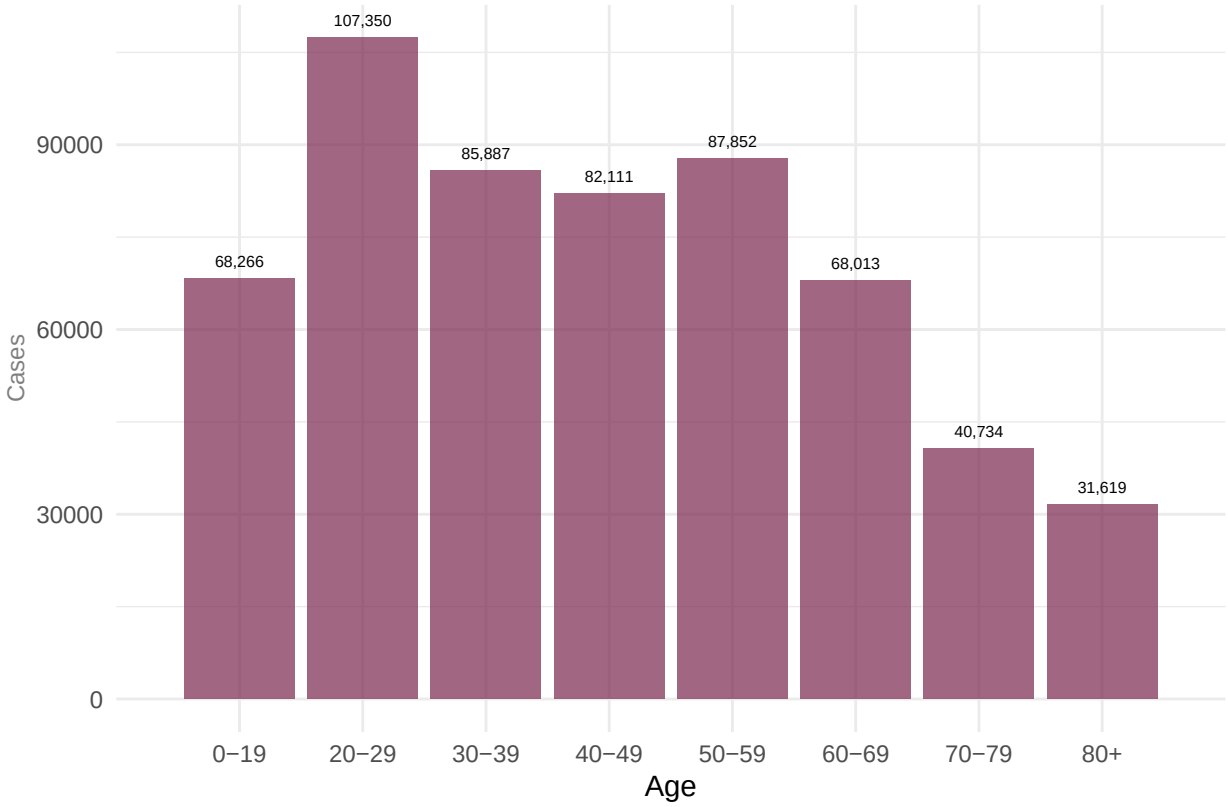
**Figure 1**
Ohio Regions by County



# Cases, Hospitalizations and Deaths for Ohio to Date

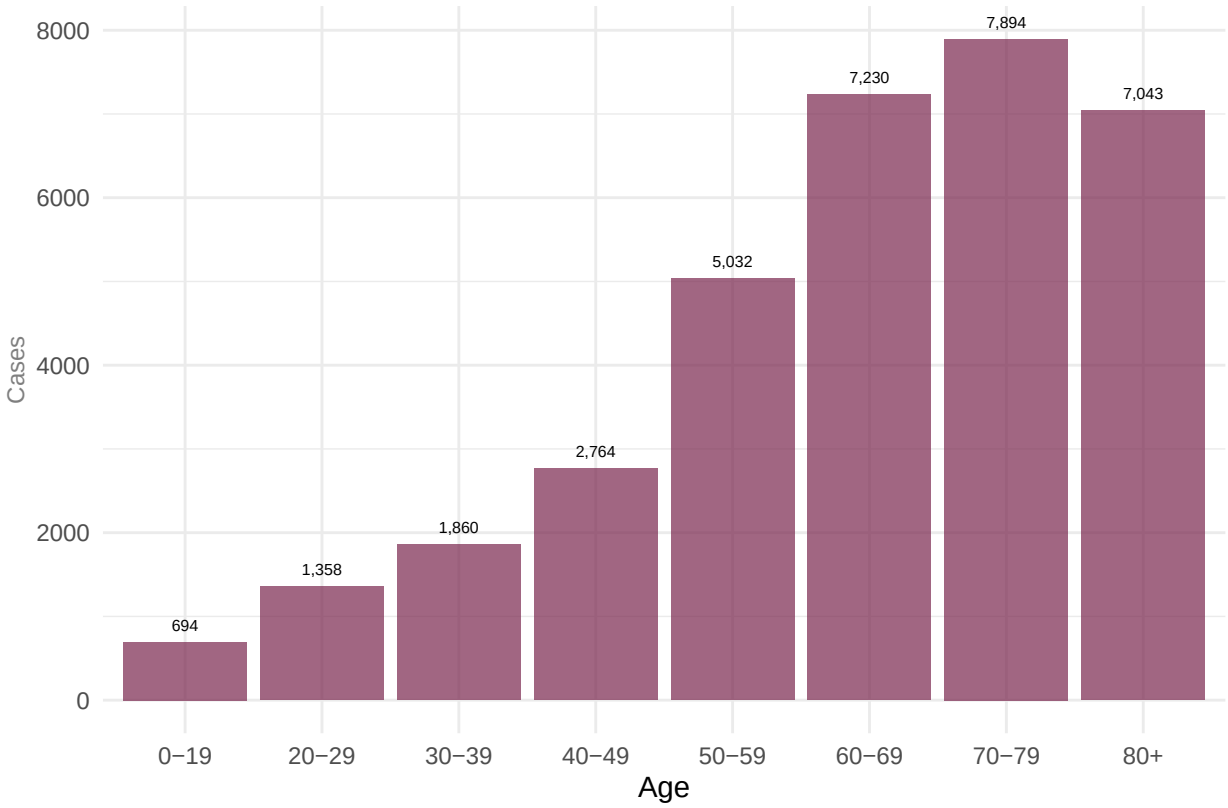
*The following series of graphs show the total number of Ohio cases, hospitalizations and deaths attributable to COVID-19 by reported age group of infected persons.*

**Figure 2**
Ohio Infections by Age



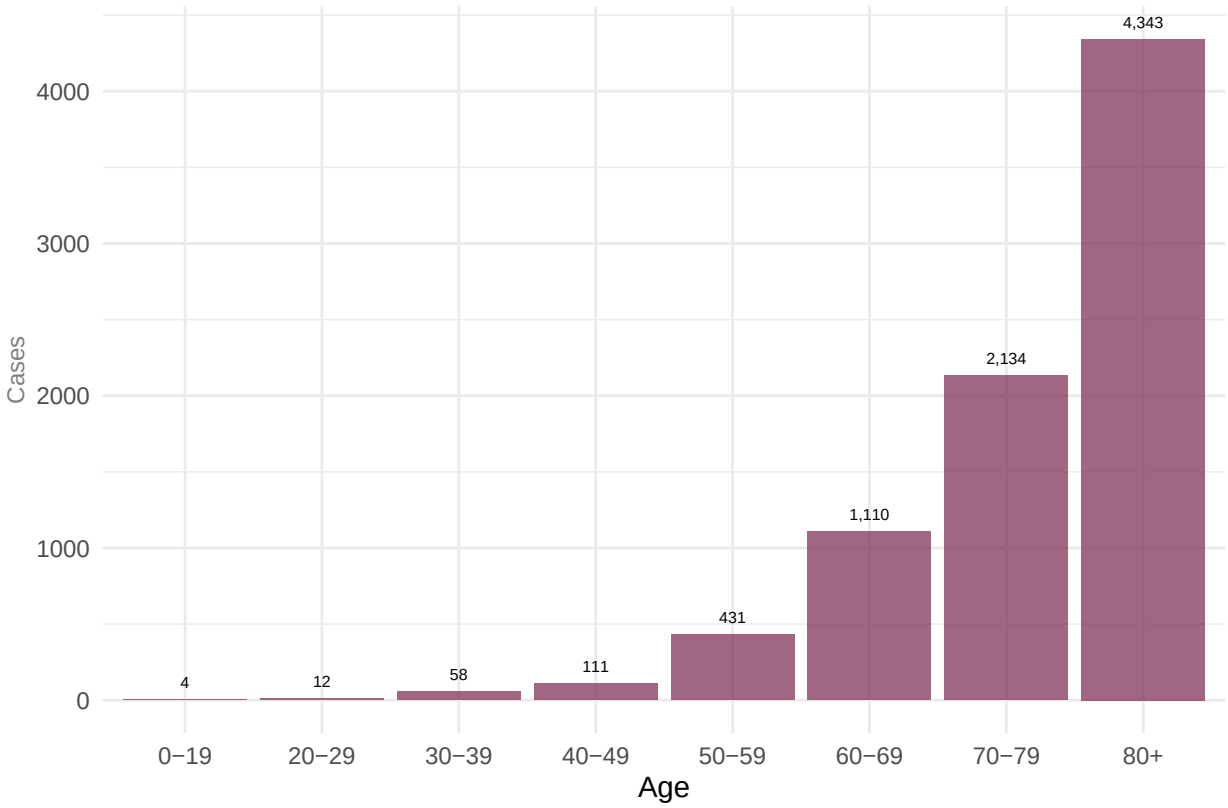

Source: Ohio Department of Health

**Figure 3**
Ohio Hospitalizations by Age




Source: Ohio Department of Health

**Figure 4**
Ohio Deaths by Age

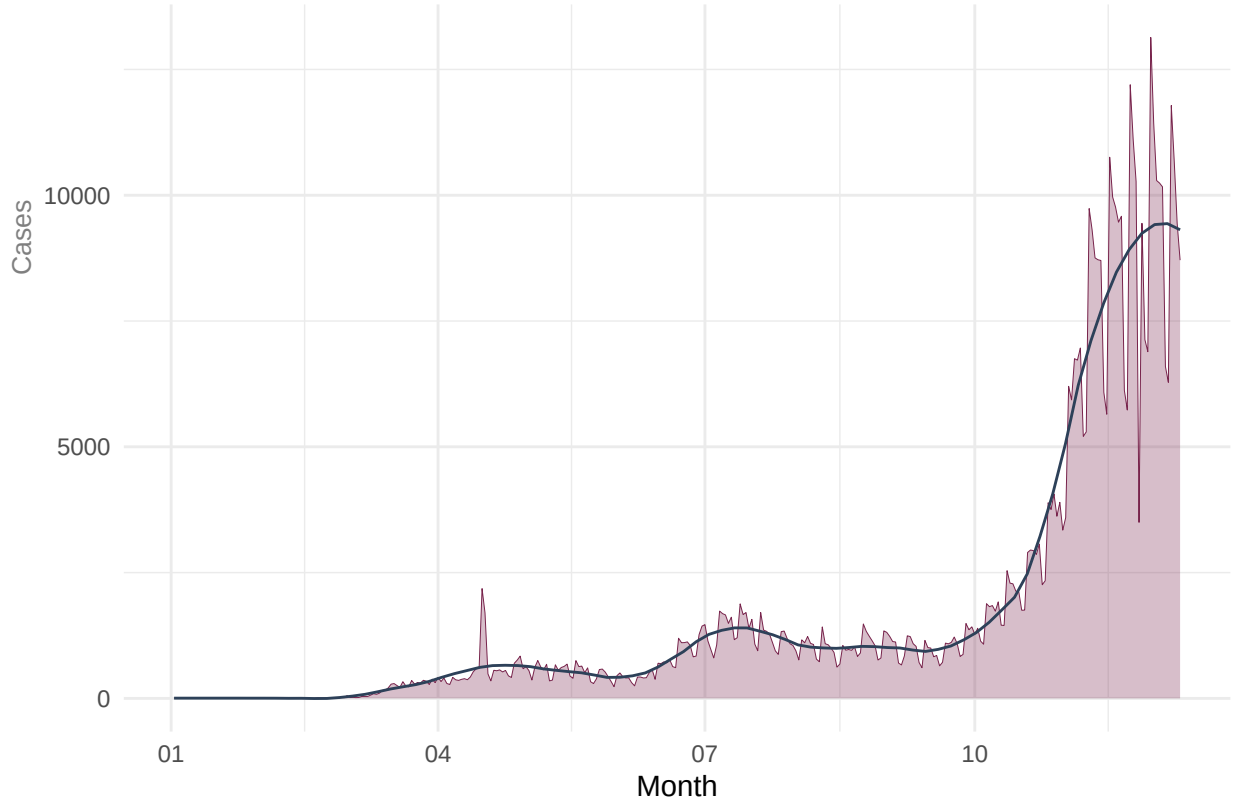



Source: Ohio Department of Health

# Cases, Hospitalizations and Deaths for Ohio and Region Over Time

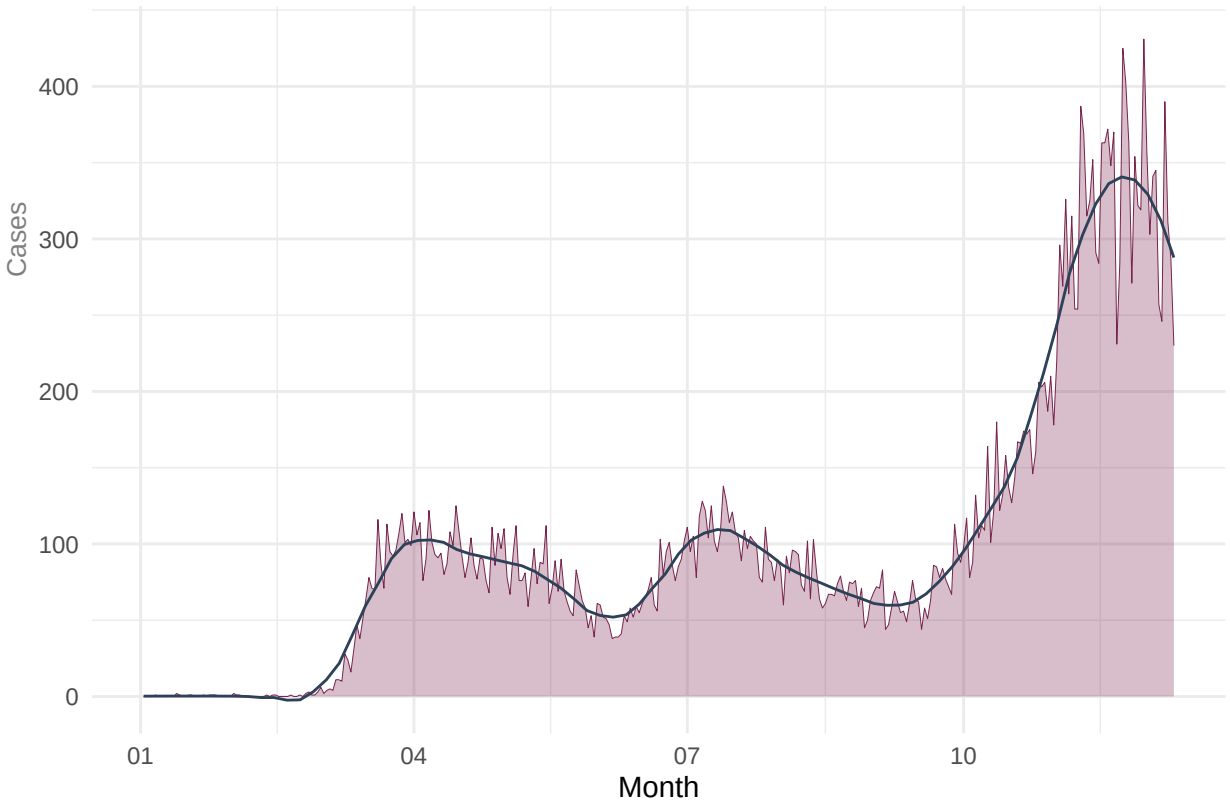
*The following graphs show the number of infections, hospitalizations and deaths by day since the beginning of the pandemic. The number of infections in recent weeks has increased dramatically and is generally consistent with temporal pattern associated with influenza. Hospitalization data displays a multi-modal pattern with peaks in the spring, summer and fall. Deaths, however, have declined since the spring peak. A series of graphs summarizing these data by region of state is also presented.*

**Figure 5**
Total Ohio Infections Over Time



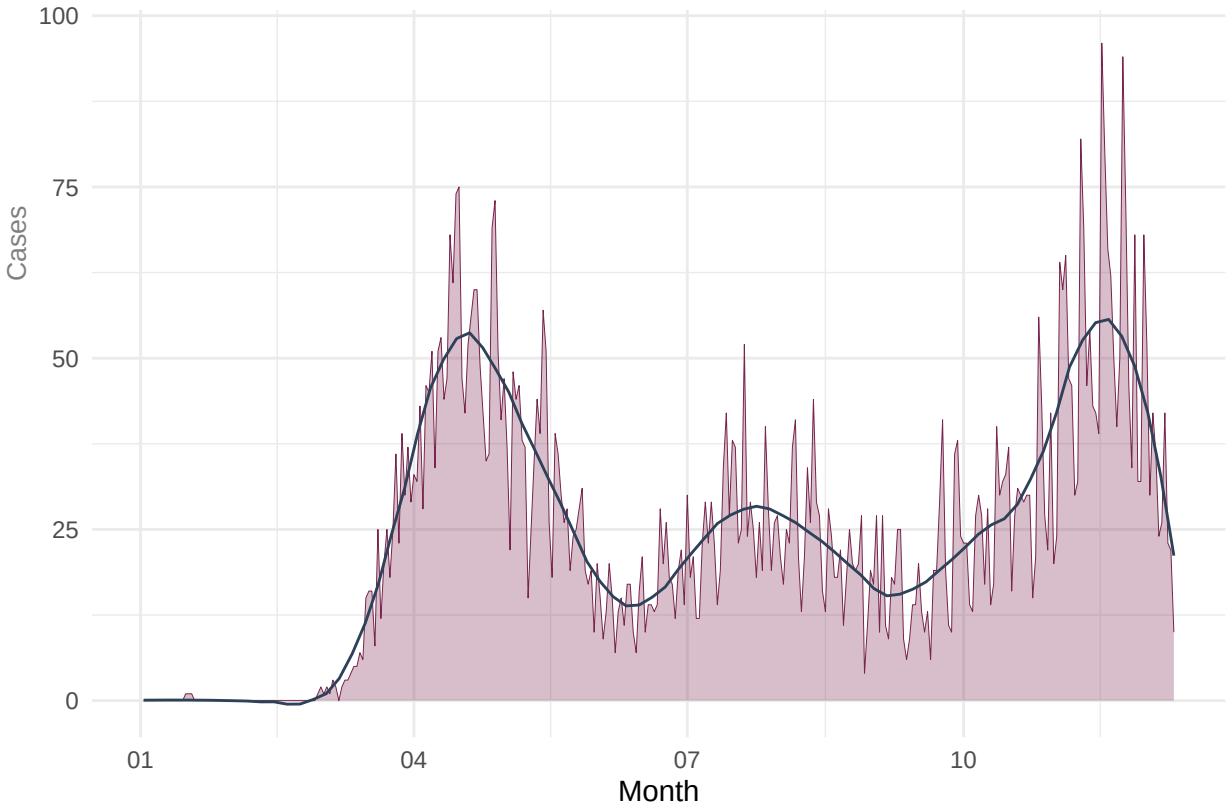

Source: Ohio Department of Health

**Figure 6**
Total Ohio Hospitalizations Over Time



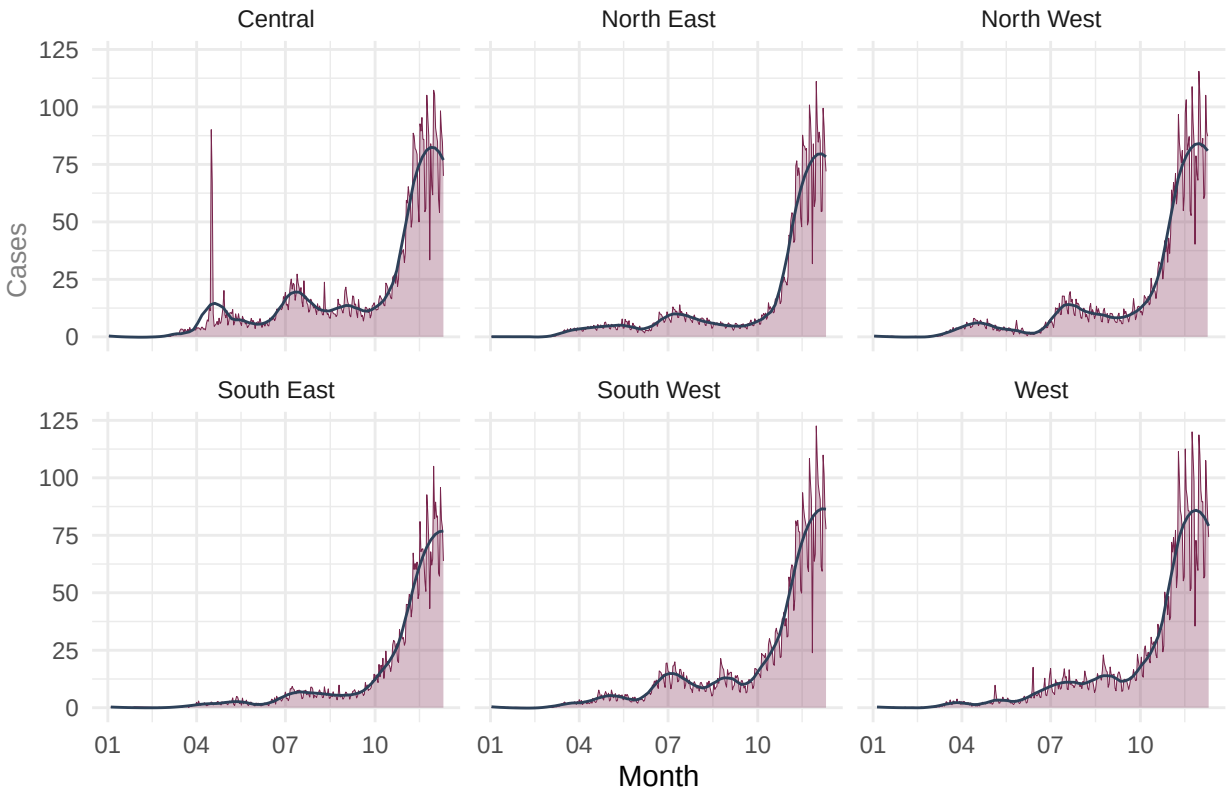

Source: Ohio Department of Health

**Figure 7**
Total Ohio Deaths Over Time



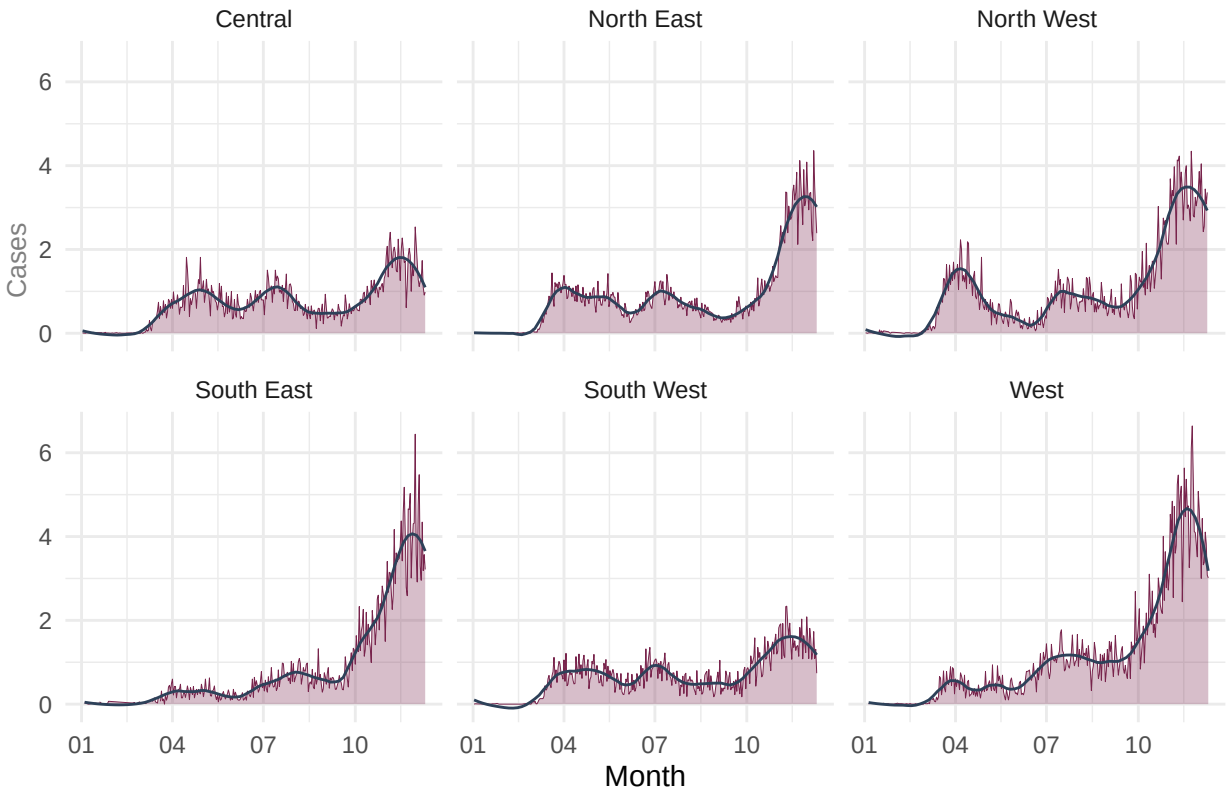

Source: Ohio Department of Health

**Figure 8**
Rate per 100,000 Infections by Region of State



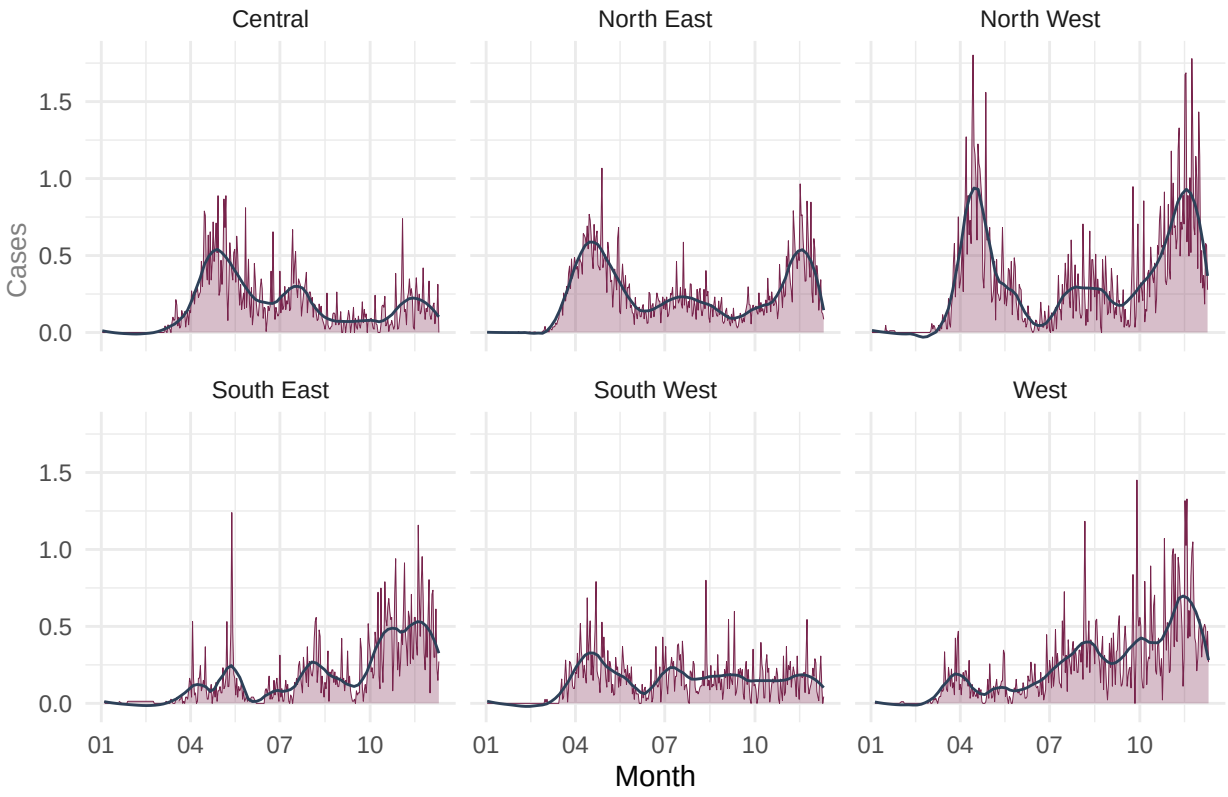

Source: Ohio Department of Health

**Figure 9**
Rate per 100,000 Hospitalizations by Region of State




Source: Ohio Department of Health

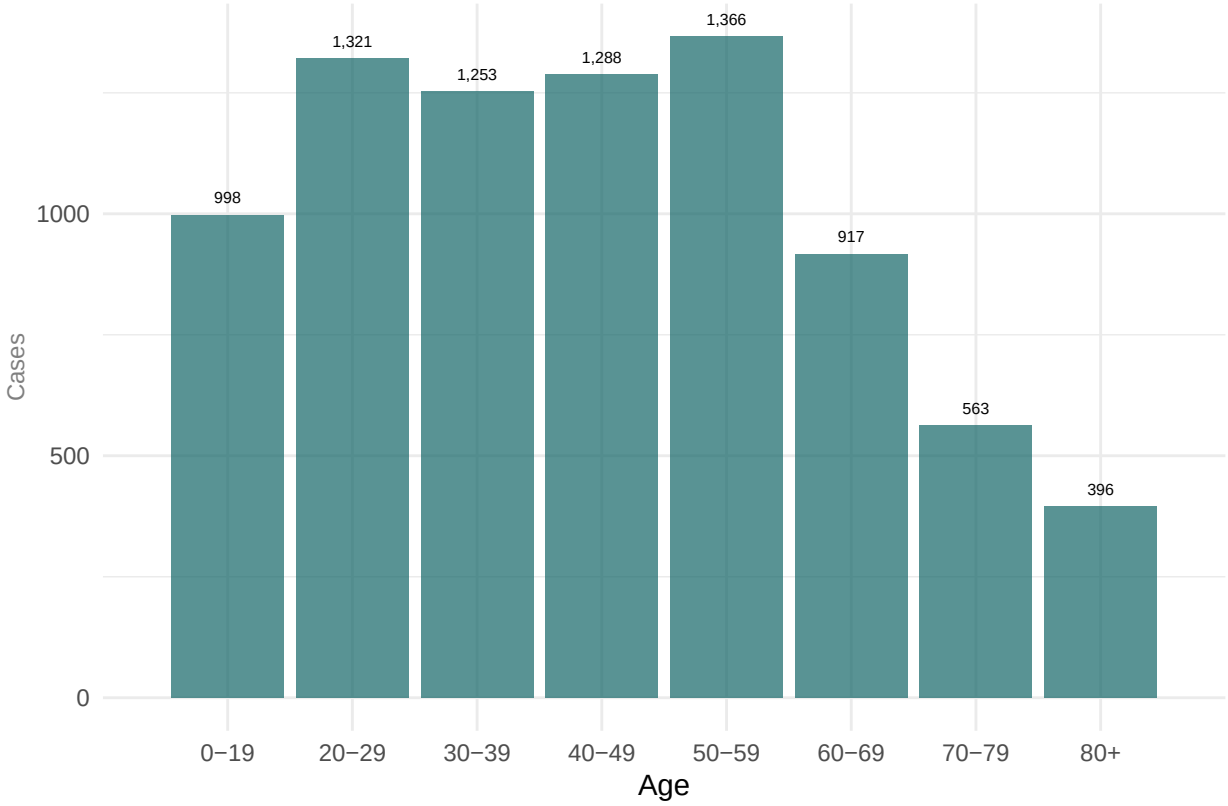
**Figure 10**
Rate per 100,000 Deaths by Region of State




Source: Ohio Department of Health

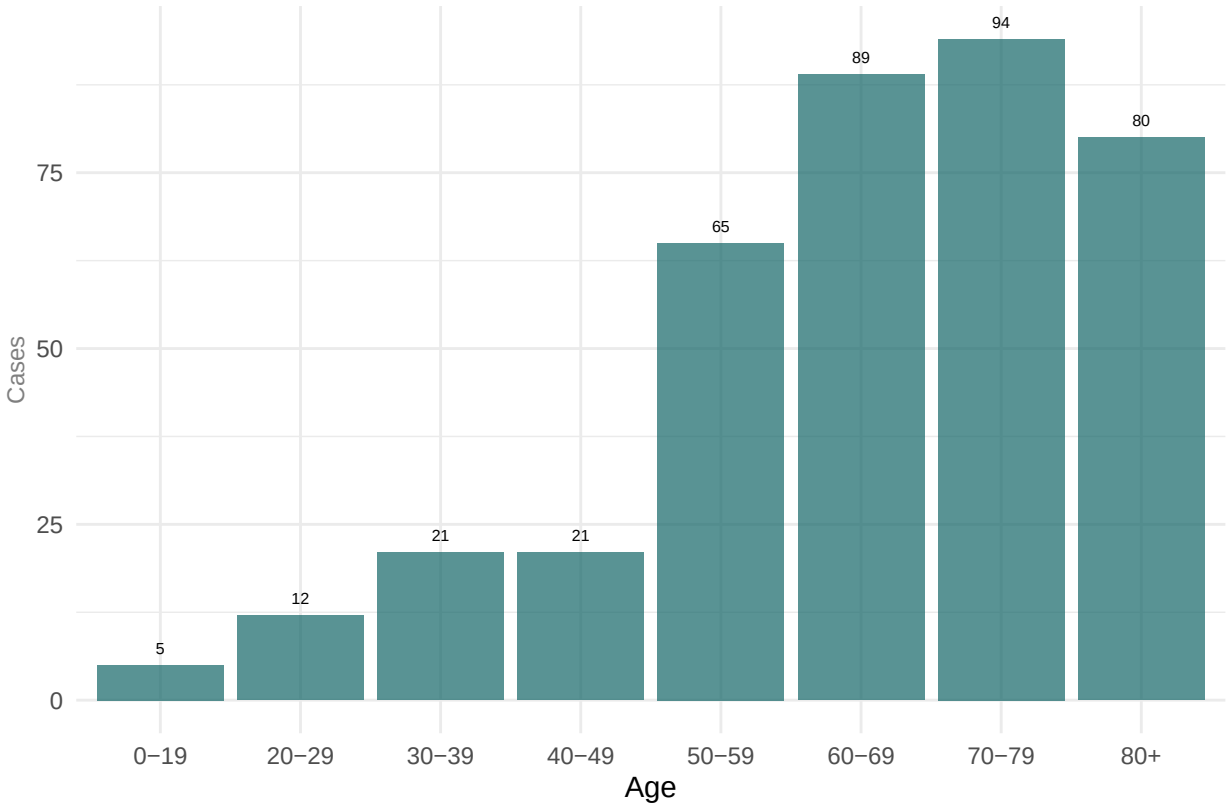
# Fairfield County Specific Data

**Figure 11**
Fairfield Co. Infections by Age



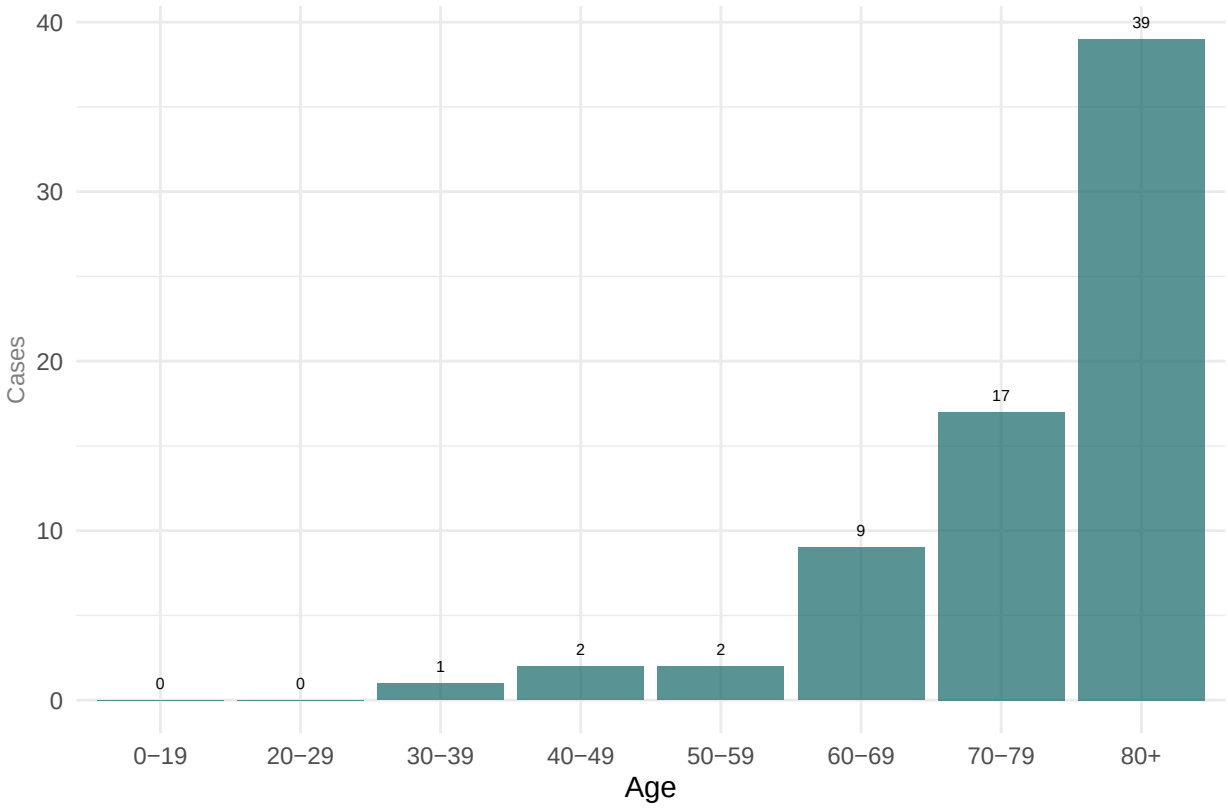

Source: Ohio Department of Health

**Figure 12**
Fairfield Co. Hospitalizations by Age



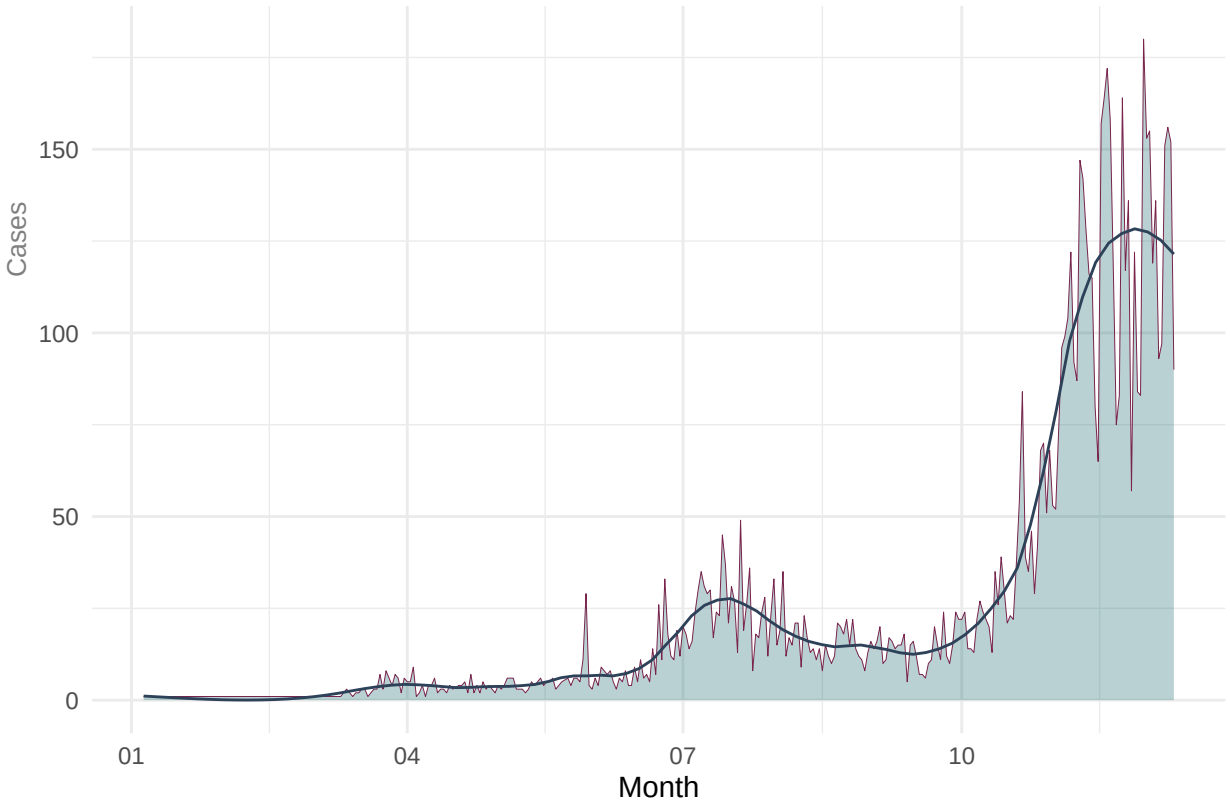

Source: Ohio Department of Health

**Figure 13**
Fairfield Co. Deaths by Age



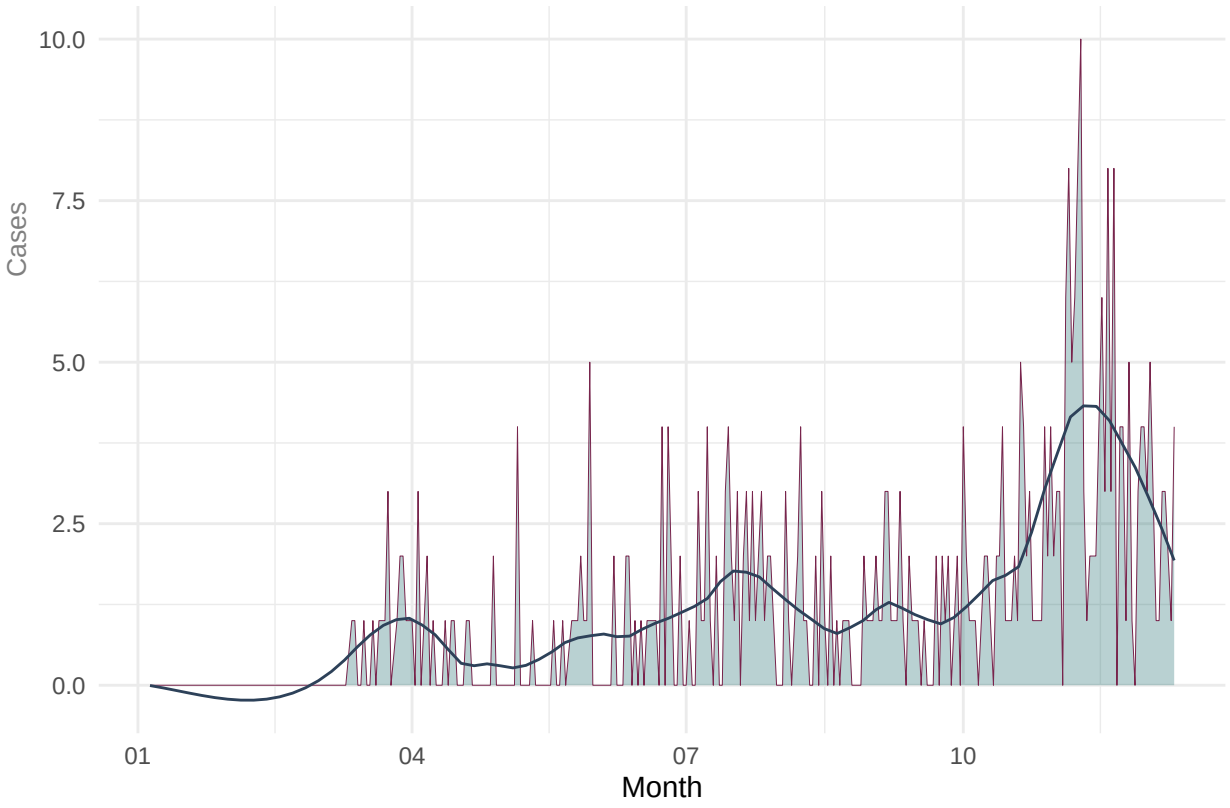

Source: Ohio Department of Health

**Figure 14**
Fairfield Co. Infections Over Time



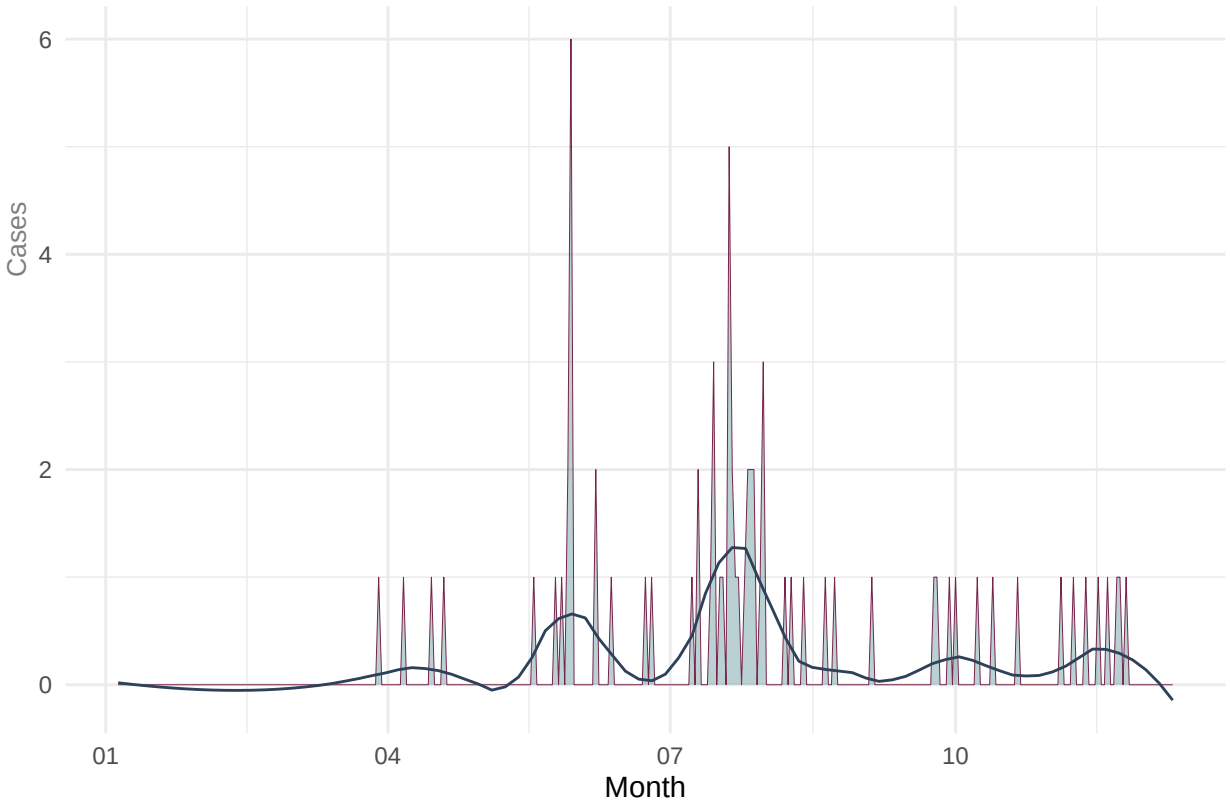

Source: Ohio Department of Health

**Figure 15**
Fairfield Co. Hospitalizations Over Time




Source: Ohio Department of Health

**Figure 16**
Fairfield Co. Deaths Over Time

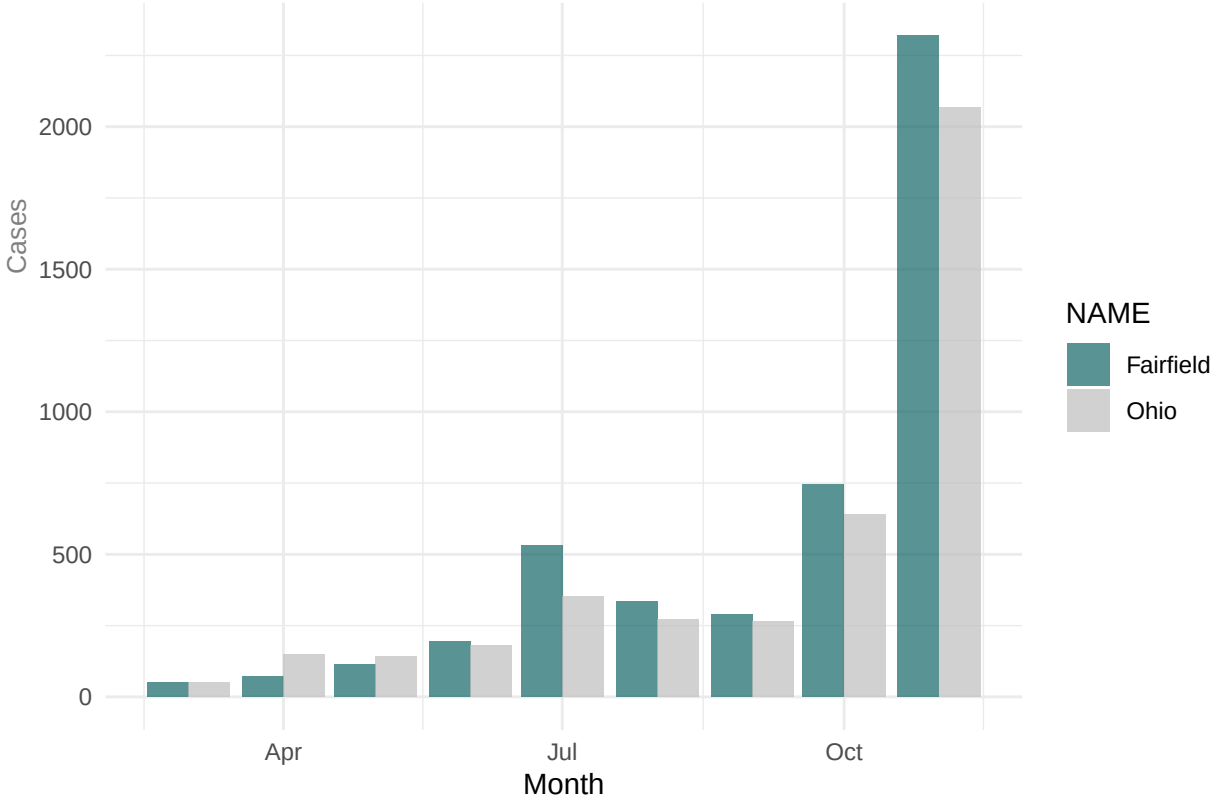



Source: Ohio Department of Health

# Fairfield Co. Infection Rate per 100,000 Population

*The Infection Rate per 100,000 population is a proposed measure of how efficiently the Coronavirus transmits within a geographic area. Transmission efficiency is a function of population density, and the concentration of residential institutions which are difficult to influence by short-term policy actions, as well as adherence to social distancing, mask compliance and other behavioral factors that can be influenced through state and local policy decisions. The following graph shows how the infection rate per 100,000 population has changed by month for Fairfield County and Ohio.*

**Figure 17**
Fairfield Co. Infection Rate per 100,000 Population

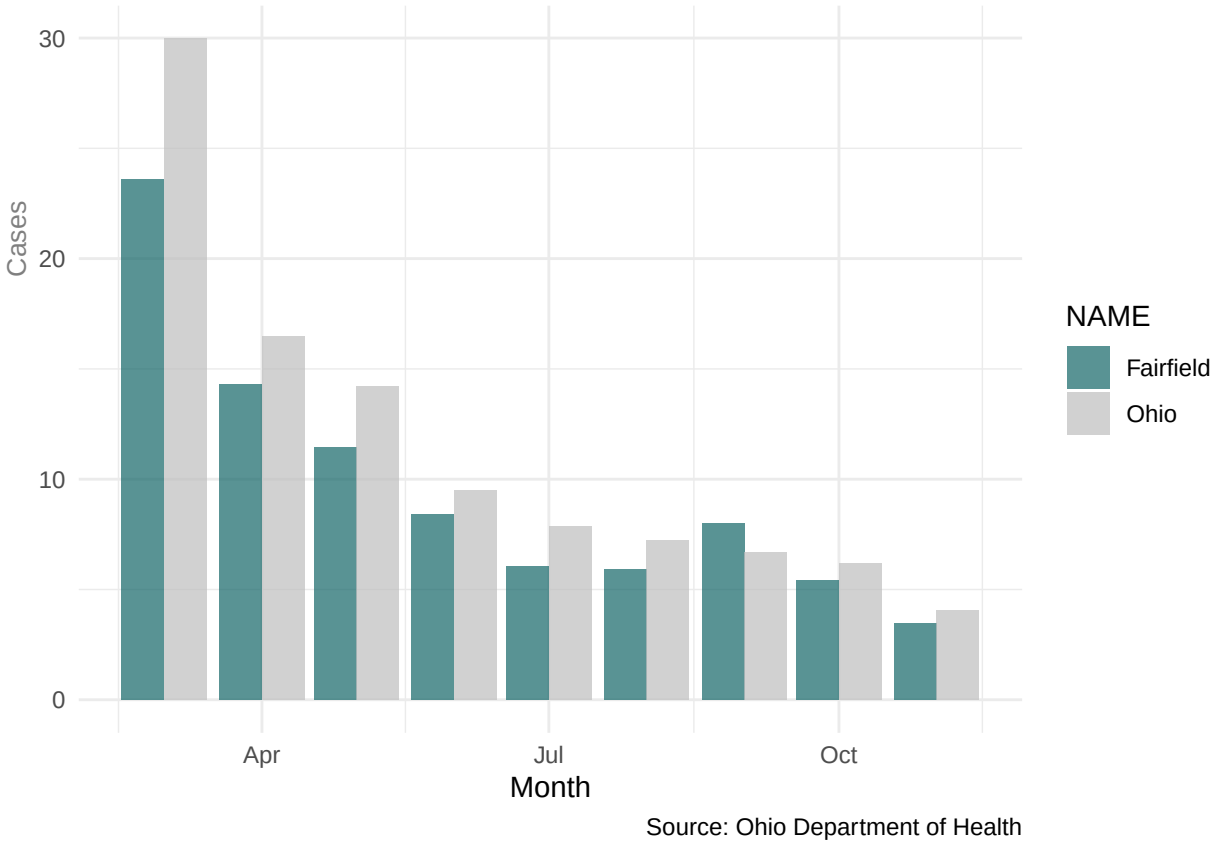



Source: Ohio Department of Health

# Fairfield Co. Rate of Hospitalizations to Infections

*The ratio of hospitalizations to infections (H2I) is a proposed measure for how susceptible the population of a geographic area is to adverse outcomes associated with COVID-19. This measure is calculated by dividing the number of hospitalizations by the total number of infections.*

*For the purposes of this exercise, it is assumed that high ratios of hospitalizations to infections is indicative of a geographic region that has a higher percentage of persons struggling with underlying conditions and therefore more susceptible to adverse outcomes.*

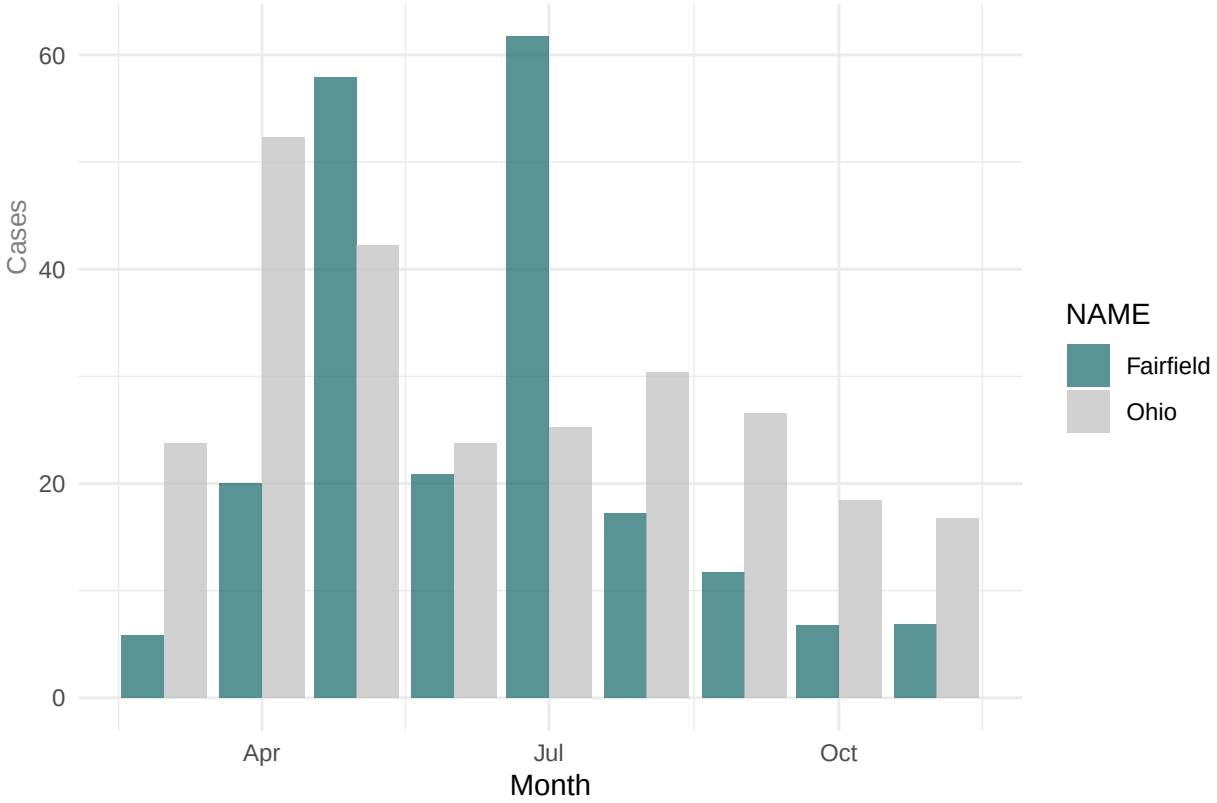



Source: Ohio Department of Health

# Fairfield Co. Ratio of Deaths to Hospitalizations

*The ratio of hospitalizations to Deaths (D2H) is a proposed measure for the effectiveness of local health systems at mitigating the effects of COVID-19. This measure is calculated by dividing the number of hospitalizations by the total number of deaths. It is assumed that severity of illness for hospital admissions is similar acFairfield Ohio communities and therefore survival rates indicate greater or lesser success in mitigating the effects of the disease.*

**Figure 18**
Fairfield Co. Ratio of Deaths to Hospitalizations




Source: Ohio Department of Health