

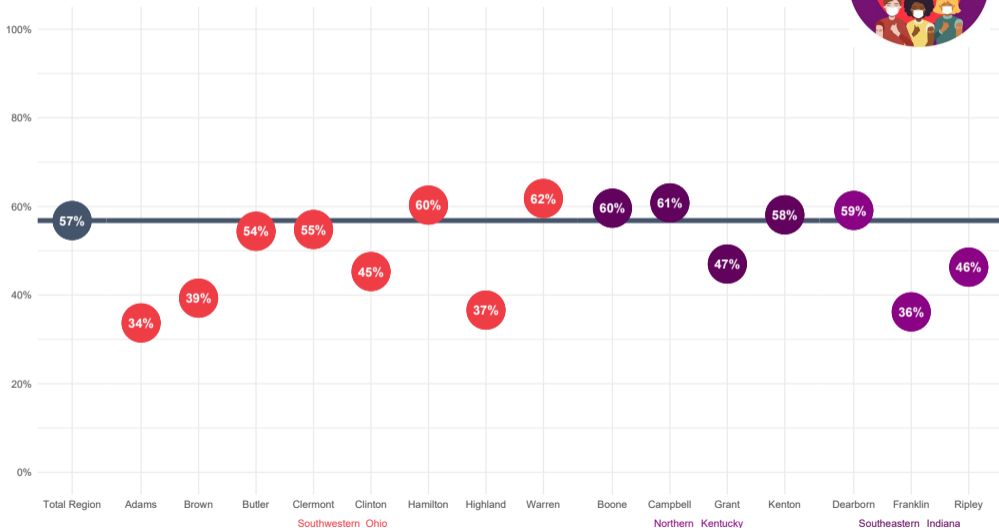
Greater Cincinnati COVID-19 Situational Awareness*

January 17, 2022

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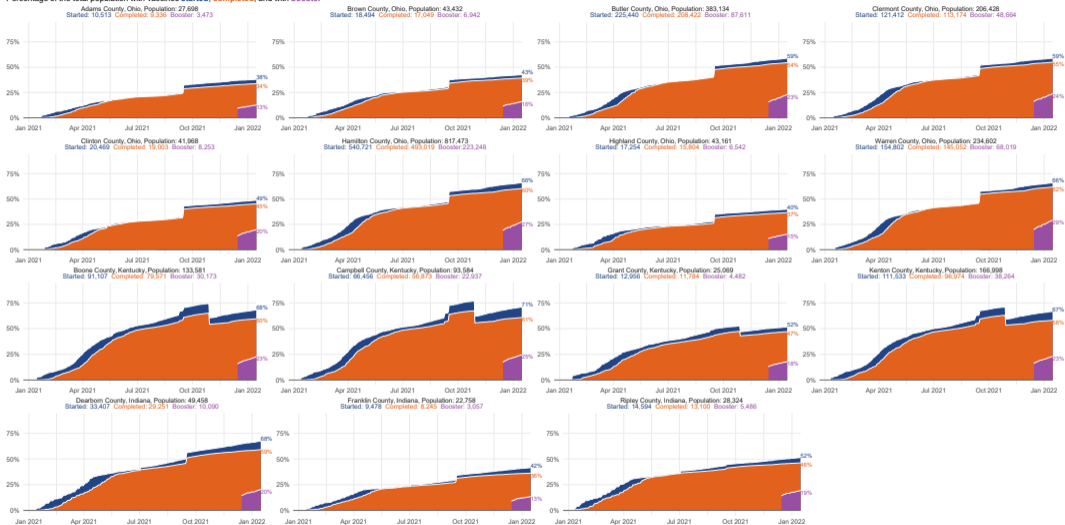
How are we doing getting people vaccinated against COVID-19?

Percentage of the total population that have completed a vaccine series



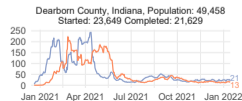
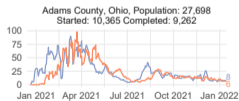
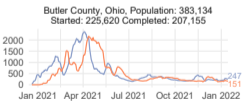
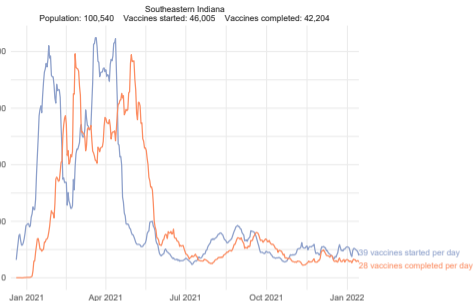
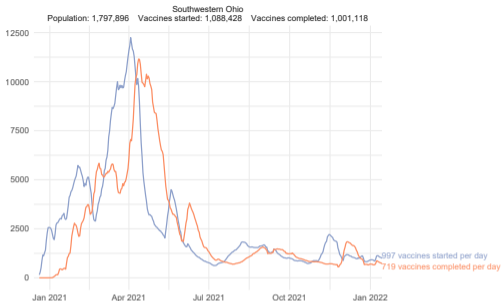
What is the COVID-19 vaccination rate in the entire population (all ages) over time?

Percentage of the total population with vaccines **started**, **completed**, and with **booster**



Source: CDC County data. <https://covid.cdc.gov/covid-data-tracker/#county-view>. Data as of January 15, 2022. On October 28th duplicate vaccinations were removed from the Kentucky data by the CDC causing a decrease in the rate. Large one day increases are likely due to updates and corrections to the data and not to an increase in vaccines given on that day.

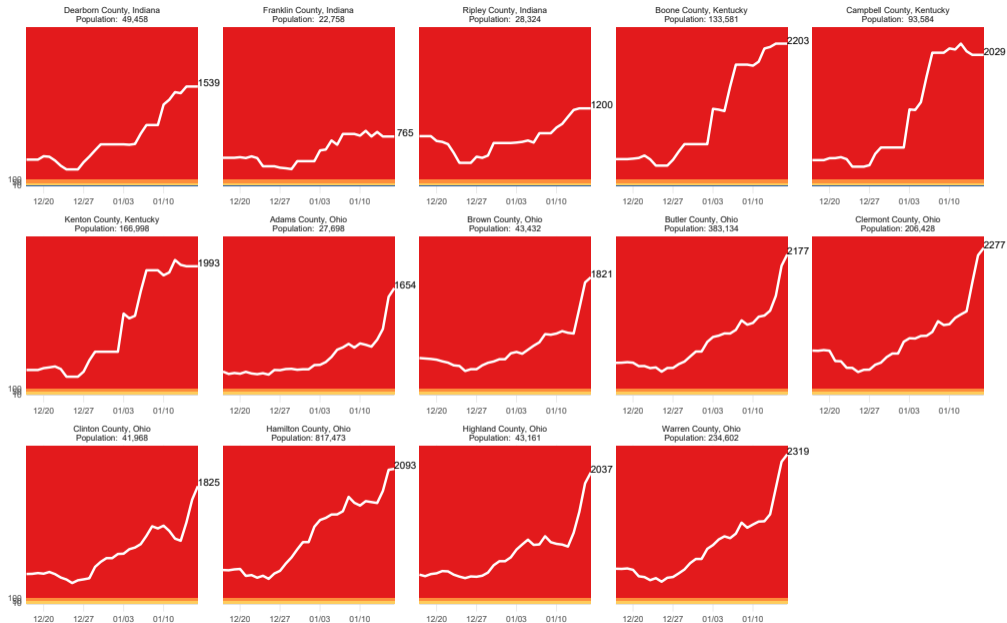
Seven day moving average, number of vaccines **started** and **completed** in Southwestern Ohio and Southeastern Indiana



Source: ODH. https://coronavirus.ohio.gov/static/dashboards/vaccine_data.csv on January 17th, 2022

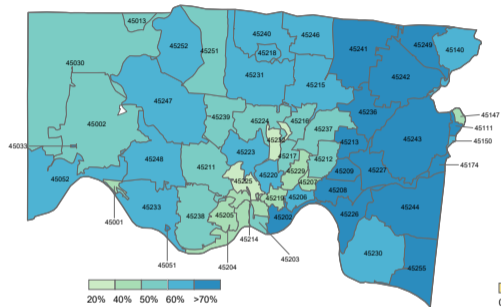
ISDH. <https://hub.mph.in.gov/dataset/c484a6a3-2f32-4af9-8e02-c98801c3454f/resource/a4d23ae8-34c2-4951-85e0-3ea9345ee6ea/download/county-vaccinations-by-date.csv> on January 17th, 2022

Seven day sum of new Covid cases per 100,000 people in each county with CDC levels

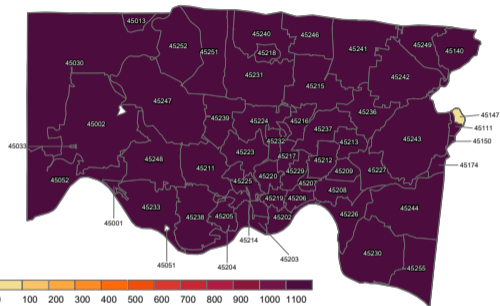


Levels are those found in CDC's Operational Strategy for K-12 Schools through Phased Mitigation, <https://www.cdc.gov/coronavirus/2019-ncov/downloads/community/schools-childcare/K-12-Operational-Strategy-02142021.pdf>
 Data from The New York Times, based on reports from state and local health agencies. <https://www.nytimes.com/interactive/2020/us/coronavirus-us-cases.html> Pulled: 2022-01-17

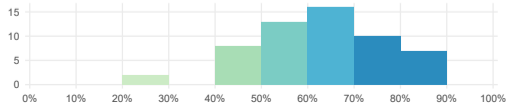
Percentage vaccinated by ZIP code



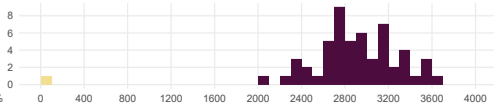
COVID-19 cases per 100,000 population in last 14 days



Distribution of percentage vaccinated in ZIP codes



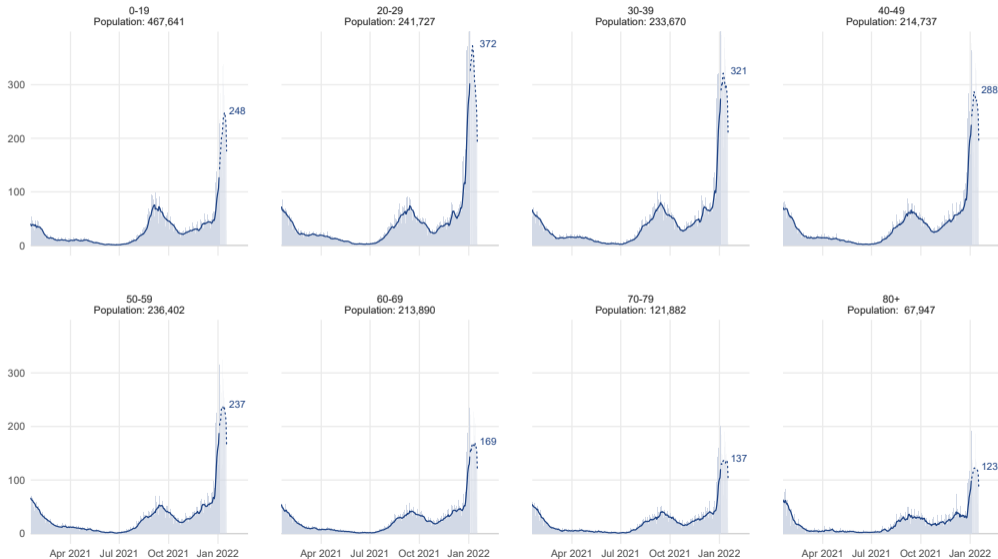
Distribution of cases per 100,000 over last 14 days



Seven day moving average of new Covid-19 cases by onset date per 100,000 by age group in Region 6

Label indicates highest seven day moving average in the last two weeks, preliminary data should be considered a floor for the eventual case count

More than two weeks out Preliminary counts

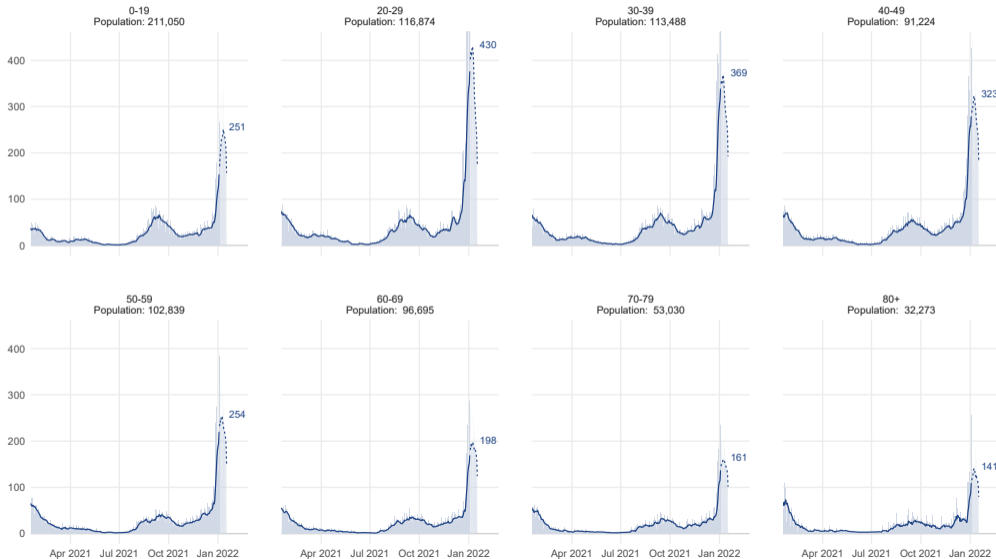


Source: ODH COVID-19 Dashboard on 01/17/2022. Population estimates from US Census Population Estimates Program, Vintage 2019

Seven day moving average of new Covid-19 cases by onset date per 100,000 by age group in Hamilton County

Label indicates highest seven day moving average in the last two weeks, preliminary data should be considered a floor for the eventual case count

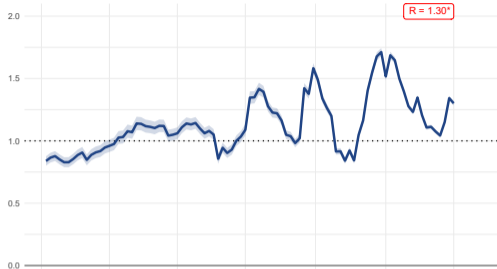
More than two weeks out Preliminary counts



Source: ODH COVID-19 Dashboard on 01/17/2022. Population estimates from US Census Population Estimates Program, Vintage 2019

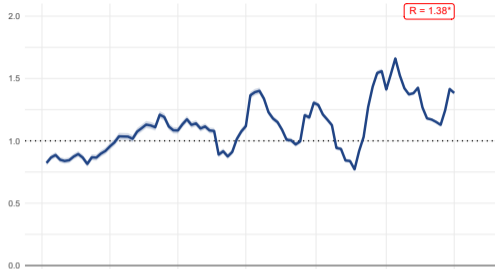
Hamilton County, Ohio

Estimated R

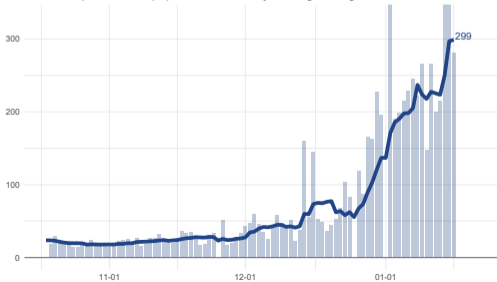


Fourteen County Region

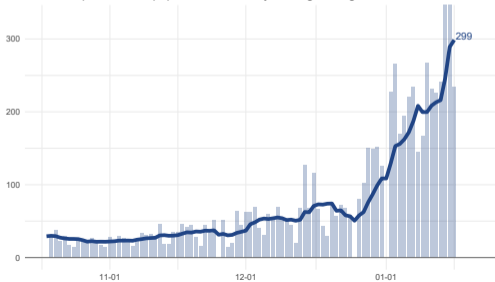
Estimated R



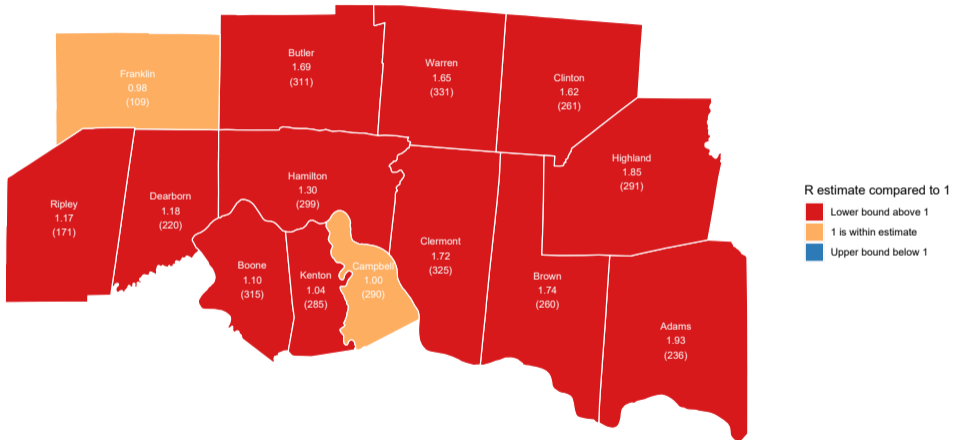
Incidence per 100,000 population and 7-day moving average



Incidence per 100,000 population and 7-day moving average

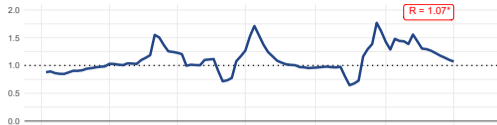


Map of R estimates for 14 county area with average daily number of cases per 100,000 population in the last week
Estimated R value is based on the rate of change in incidence cases and should be considered along with the count



Mean serial interval (SI): 4.7 and standard deviation of SI: 2.9. Data from The New York Times, based on reports from state and local health agencies.
<https://www.nytimes.com/interactive/2020/us/coronavirus-us-cases.html> Pulled: 2022-01-17

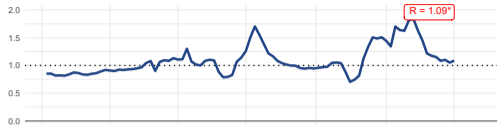
Indiana Estimated R



Incidence per 100,000 population and 7-day moving average



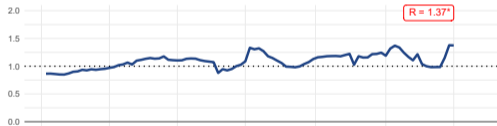
Kentucky Estimated R



Incidence per 100,000 population and 7-day moving average



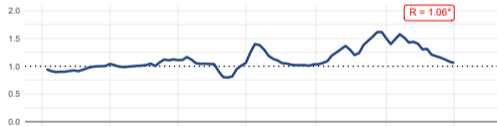
Ohio Estimated R



Incidence per 100,000 population and 7-day moving average



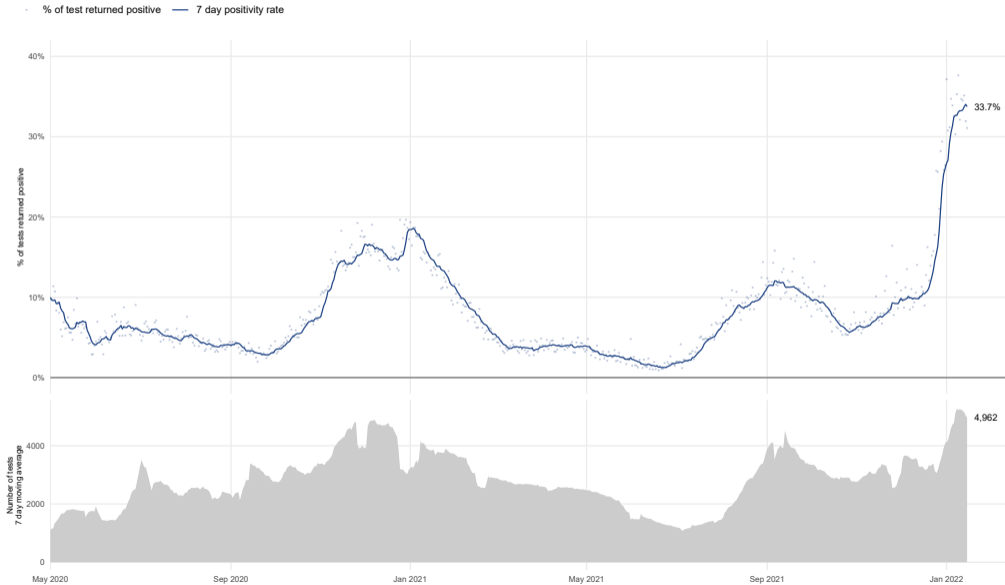
United States Estimated R



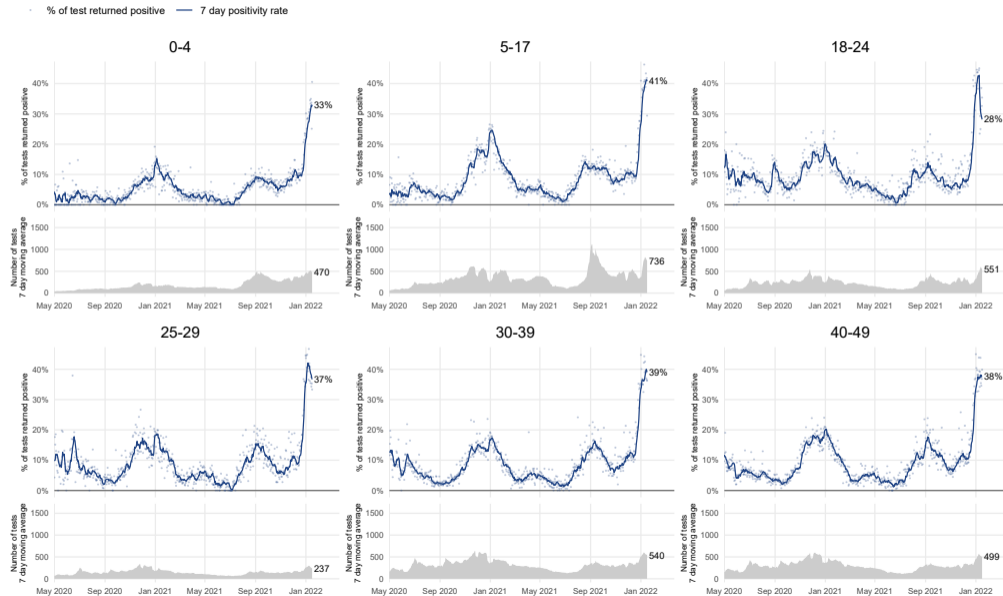
Incidence per 100,000 population and 7-day moving average



Percentage of test results returned positive in 14 county region



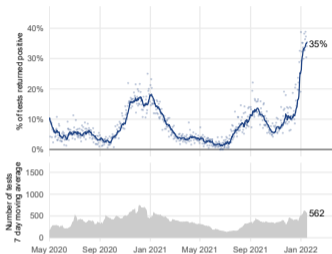
Percentage of test results returned positive by age of patient for 14 county area



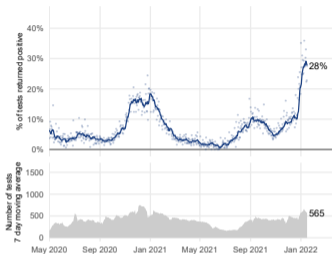
Percentage of test results returned positive by age of patient for 14 county area

• % of test returned positive — 7 day positivity rate

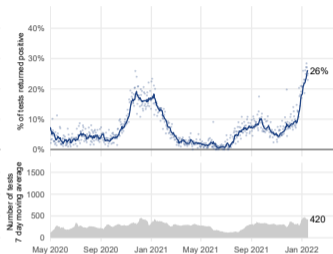
50-59



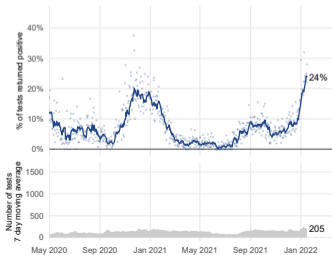
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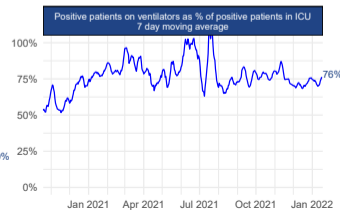
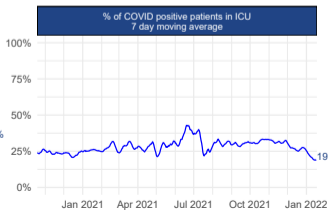
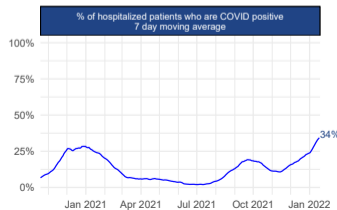
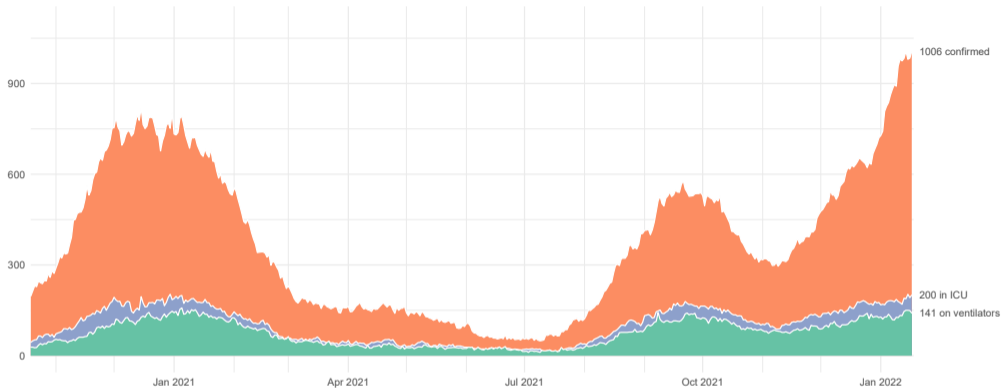
70-79



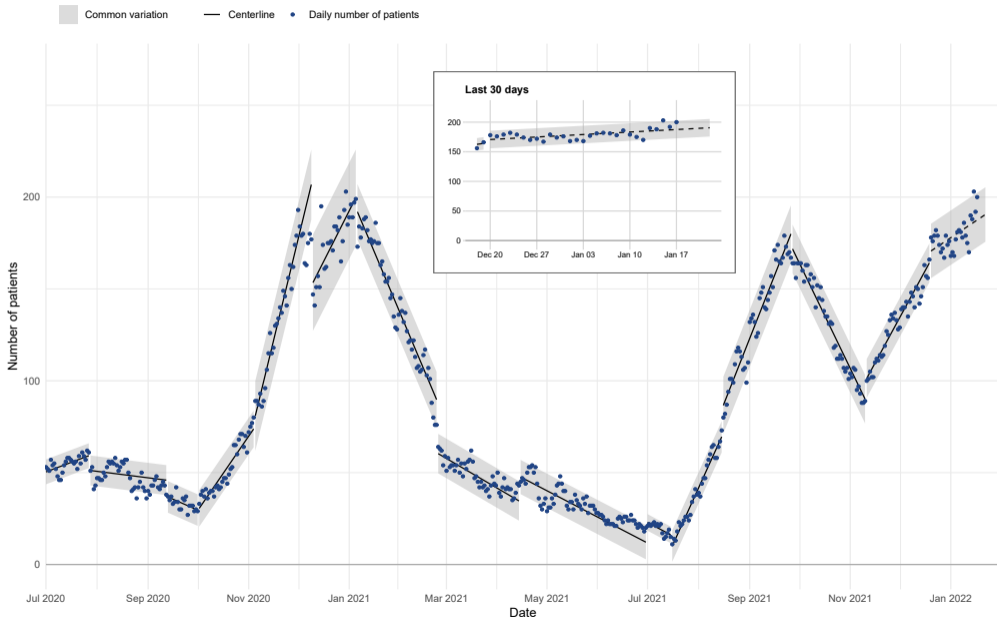
80-89



Number of COVID positive patients in Region 6 hospitals

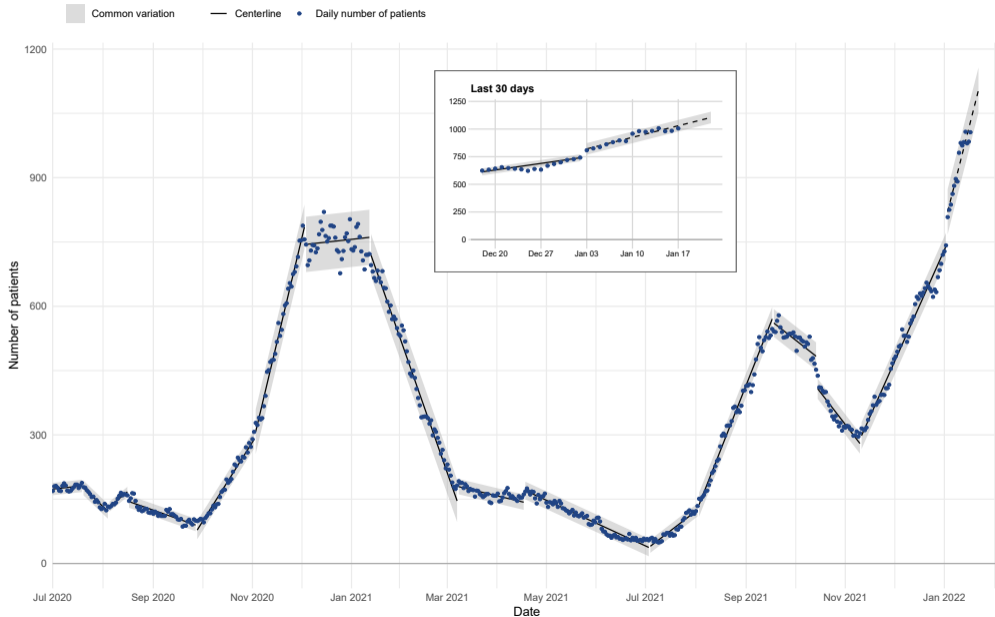


Number of positive COVID-19 patients in Region 6 ICUs



Dashed line indicates a temporary centerline that will change over time. Source: Ohio Hospital Association Hospital Resource Tracker on January 17th

Number of positive COVID-19 patients in Region 6 hospitals

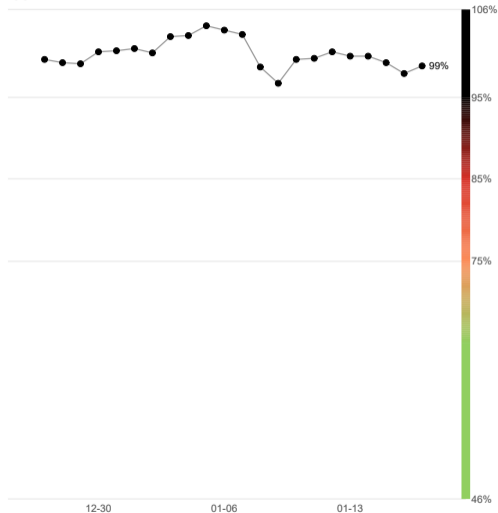


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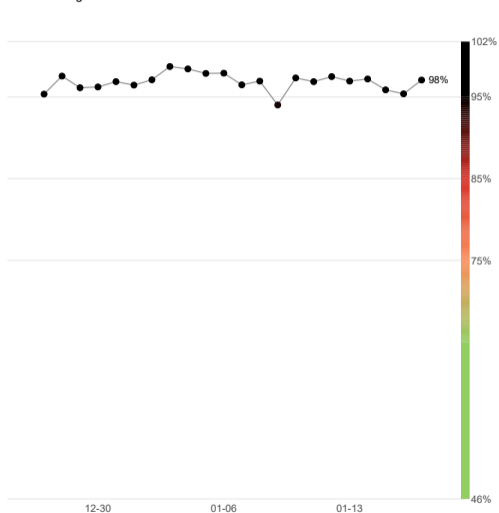
Percentage of adult beds occupied in the Greater Cincinnati Area

Upper limit reflects currently staffable beds in the area including those beyond the region's normal capacity

ICU beds



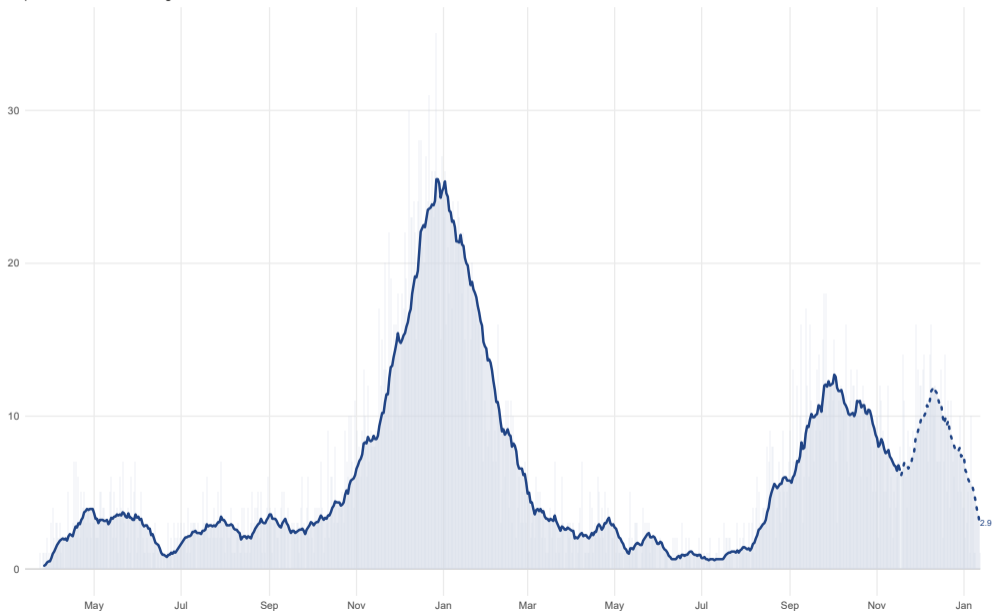
Medical-Surgical beds



- Usual operations and staffing
- Mild to moderate staffing strain; staff managing higher than usual patient volumes
- Moderate to extreme staffing strain; staff pulled from other areas to manage care outside usual scope
- Critical operations, "all hands on deck", greatest good provided to the greatest number of patients

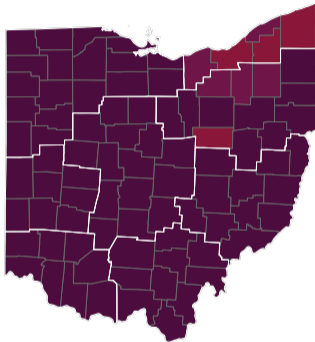
Seven day moving average of COVID-19 deaths in Southwestern Ohio

Reports of deaths tend to lag 1-2 months

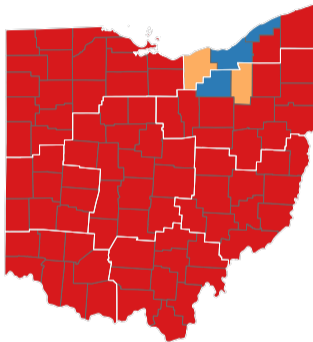


Source: ODH, Verified deaths by county of residence, https://coronavirus.ohio.gov/static/dashboards/COVIDDeathData_CountyOfResidence.csv, pulled on: 2022-01-17

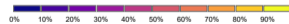
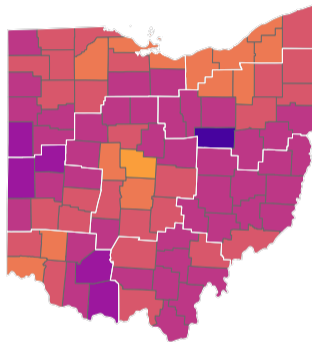
Daily 7 day running sum of cases per 100,000 population
Cases by onset date from Ohio Department of Health



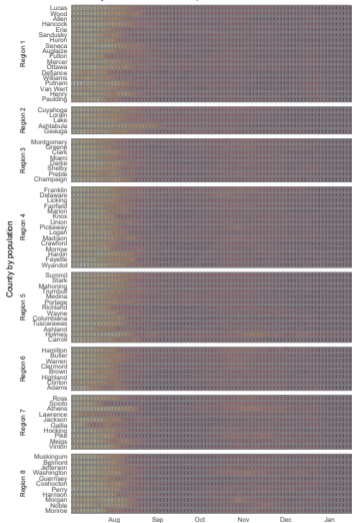
R effective in Ohio relative to 1 by county
New cases reported daily by New York Times



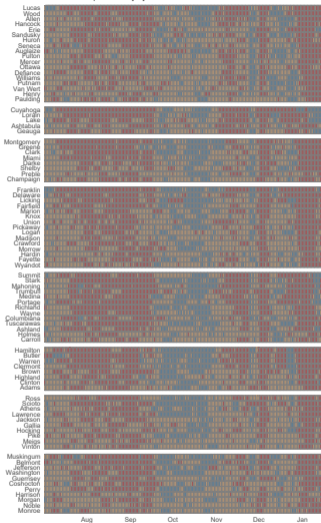
% of population with vaccination started
Ohio Department of Health



Daily 7 day running sum of cases per 100,000 population
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% of population with vaccination started
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