

## **About the Data Sources**

- The data and visualizations reported are from two data sources: 1) the daily Kentucky Public Health KY COVID-19 Daily Summary (<https://chfs.ky.gov/agencies/dph/covid19/COVID19DailyReport.pdf>); and 2) the daily Indiana State Department of Health Covid-19 County-Wide Test, Case, and Death Trends (<https://hub.mph.in.gov/dataset/covid-19-county-wide-test-case-and-death-trends/resource/afaa225d-ac4e-4e80-9190-f6800c366b58>).
- From Kentucky Public Health: *The data collected by the Kentucky Department for Public Health (KDPH) on case patients comes from a number of sources, including electronic laboratory reports, provider case disease and COVID-19 investigation reports, local health department investigation results, hospital infection prevention clinical patient data, and KDPH investigation results. Data is often found incomplete and/or incorrect and during KDPH investigation individual patient-level data is added to, corrected, and de-duplicated so that overall case counts and aggregate data values change daily.* The charts herein represent historic accumulations of the daily numbers posted in the Kentucky Public Health (KPH) daily report. Note that the date used in the x-axis of the visualizations is the report date in the header of the KPH report.
- From Indiana State Department of Health: *All data displayed is preliminary and subject to change as more information is reported to ISDH. New positive cases, deaths and tests have occurred over a range of dates but were reported to ISDH in the last 24 hours. Tests are displayed by the date the test was performed and deaths are displayed by the date the death occurred. Expect historical data to change as data is reported to ISDH.* The charts herein represent the updated historic file posted daily by ISDH.

*Italicized text represents a direct quote from the source website.*

## About the Calculations

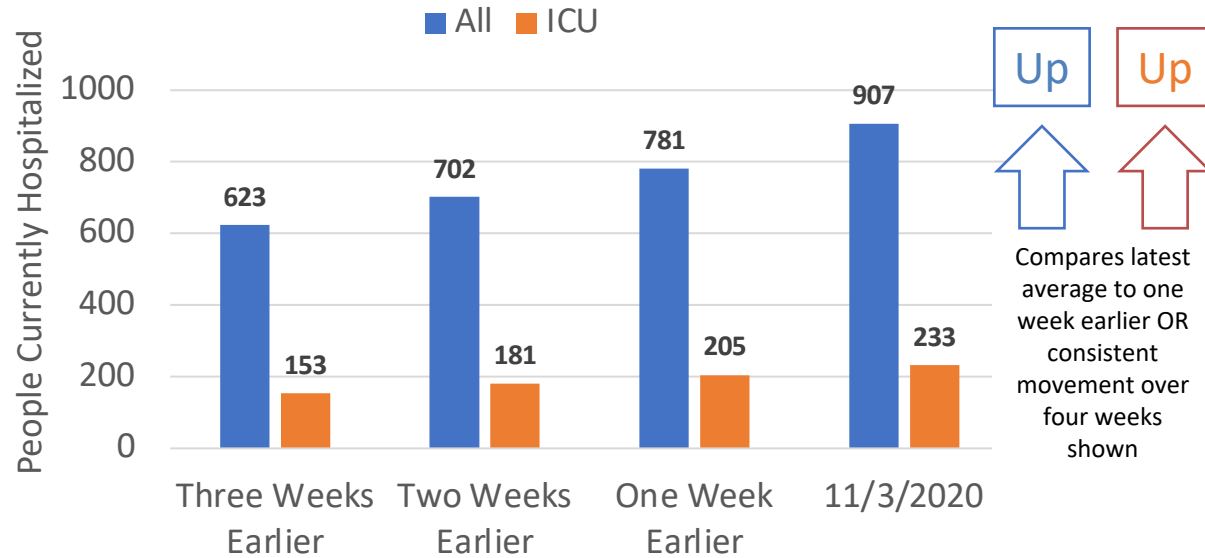
- A 14-day Trailing Average is computed by averaging all available daily values among the latest reported date and previous 13 calendar days. (For example, the average between July 16 and July 29, 2020 would be reported on July 29, 2020) If a day's data is unavailable within that time window (for instance, the KPH report does not usually include hospitalization data on Sundays), the average is performed without that day. For instance, if there are only 13 values over the last two weeks, the average is taken over those 13 values.
- Louisville Metro data represents a sum of the data from the counties listed below. The counties are based on the OMB's delineation for Louisville/Jefferson County CBSA as of March 2020. (<https://www.census.gov/programs-surveys/metro-micro/about/delineation-files.html>)
  - Kentucky counties: Bullitt, Henry, Jefferson, Oldham, Shelby and Spencer
  - Indiana counties: Clark, Floyd, Harrison and Washington



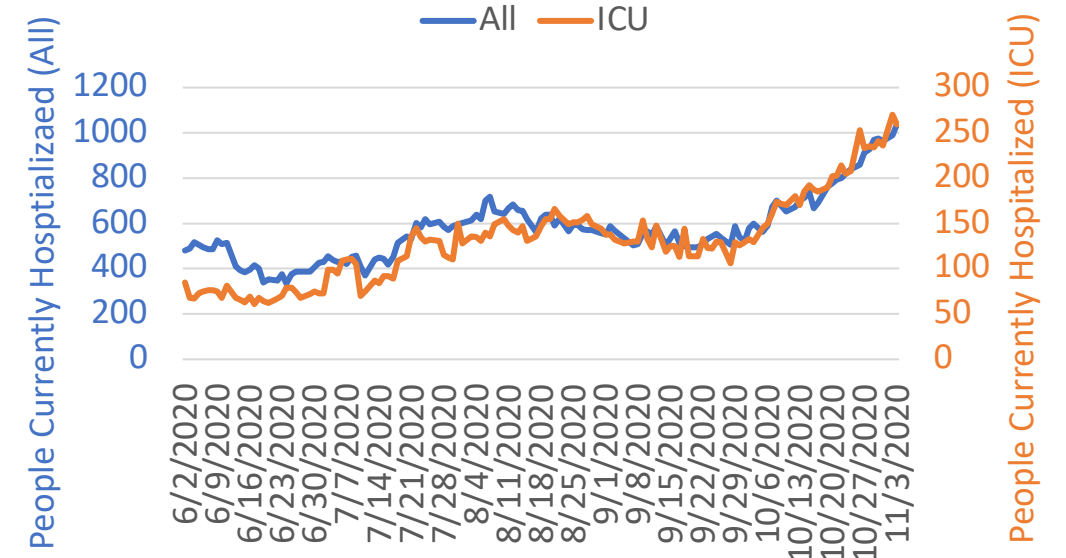
## About the Trends

- **For the 14-day-averages, Up or Down** means an increase or decrease in the 14-day-average of a quantity between today and a week ago, where the absolute change is at least 5%, OR consistent directional change across the four weeks shown. **Same** means that the absolute change in the 14-day-average of a quantity between today and a week ago was less than 5%.
- **[Prospective addition] For the daily plots, Up or Down** means that the Mann-Kendall test indicated a statistically significant trend at a 95% confidence level over the last 14 days of data. **No trend** means that the null hypothesis could not be rejected using the statistical test.

### Kentucky Covid-19 Hospitalizations (14-day Trailing Average)



### Kentucky Covid-19 Hospitalizations (Daily View)

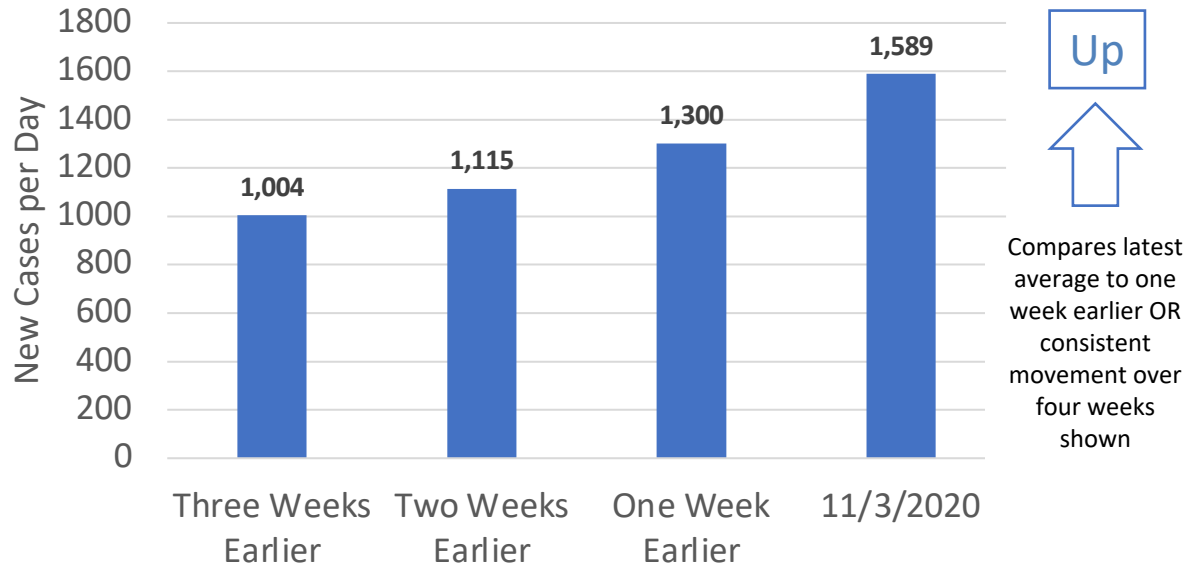


Source: Kentucky Public Health daily report

<https://chfs.ky.gov/agencies/dph/covid19/COVID19DailyReport.pdf>

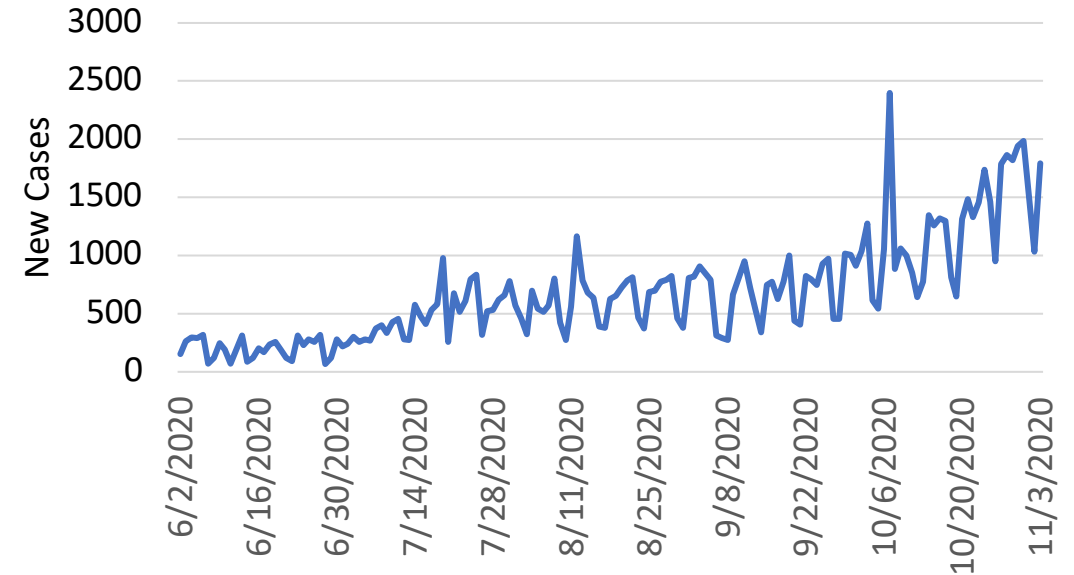
November 4, 2020

### Kentucky New Covid-19 Cases (14-day Trailing Average)



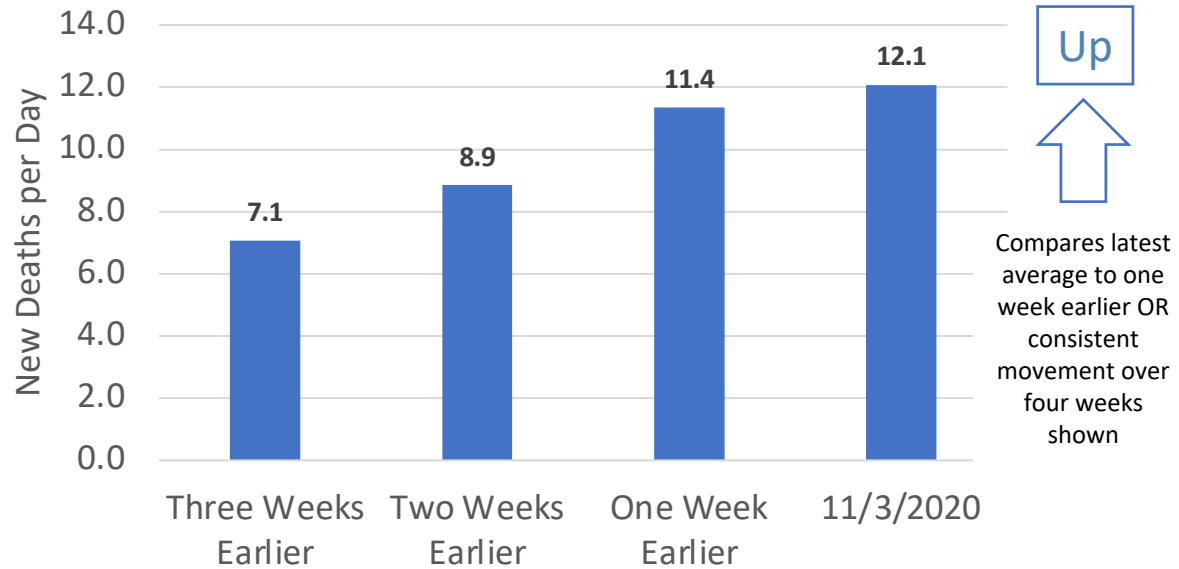
\*KPH noted that a backlog of case data from one jurisdiction contributed to the case total on 10/7/2020. Of those 2,398 cases, 926 were new cases.

### Kentucky New Cases (Daily View)

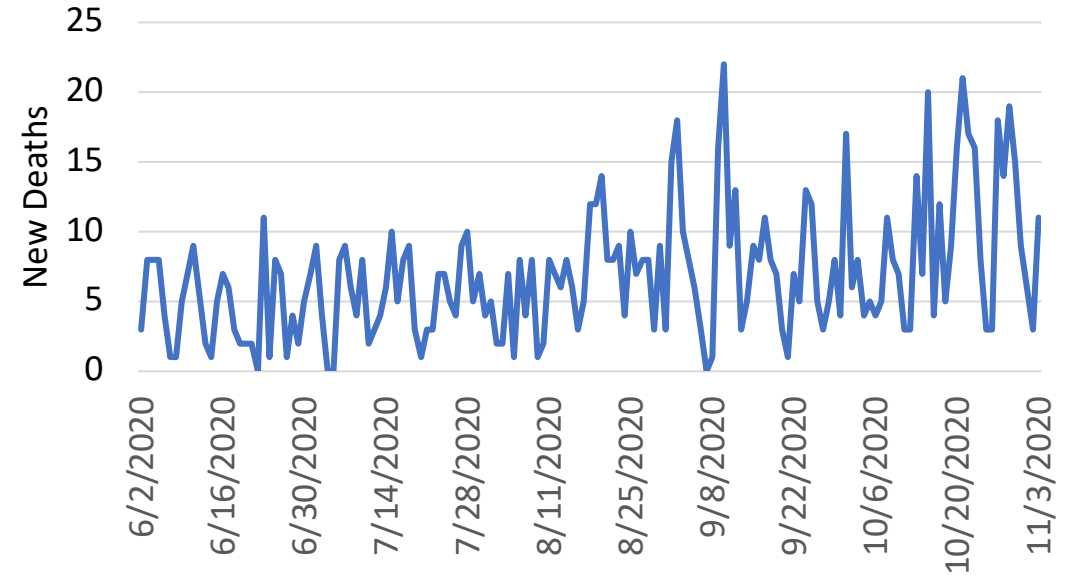


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Kentucky New Deaths - Covid-19  
(14-day Trailing Average)



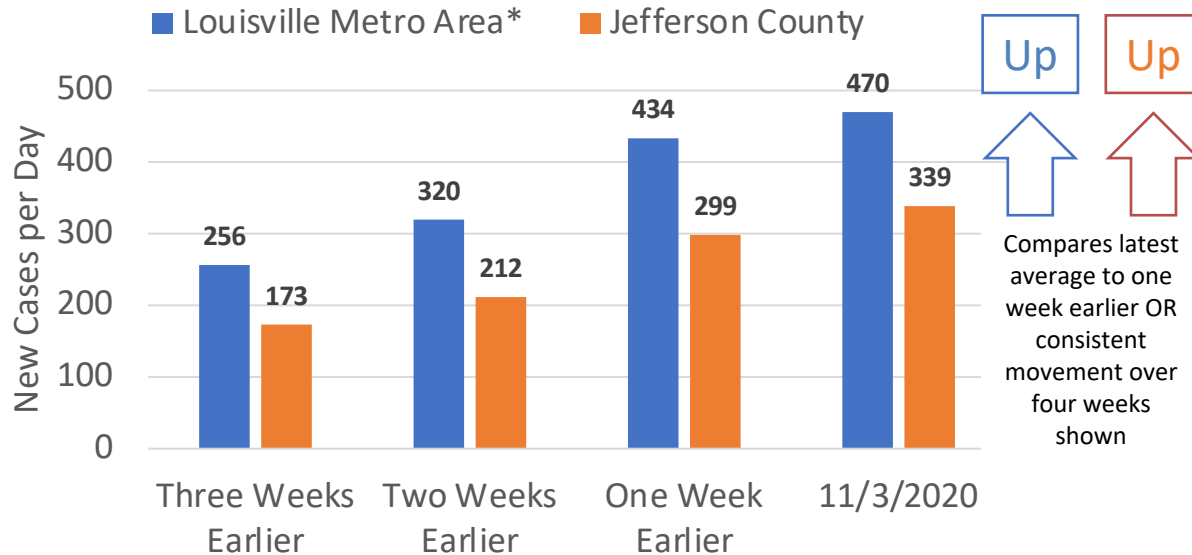
Kentucky New Deaths  
(Daily View)



Source: Kentucky Public Health daily report

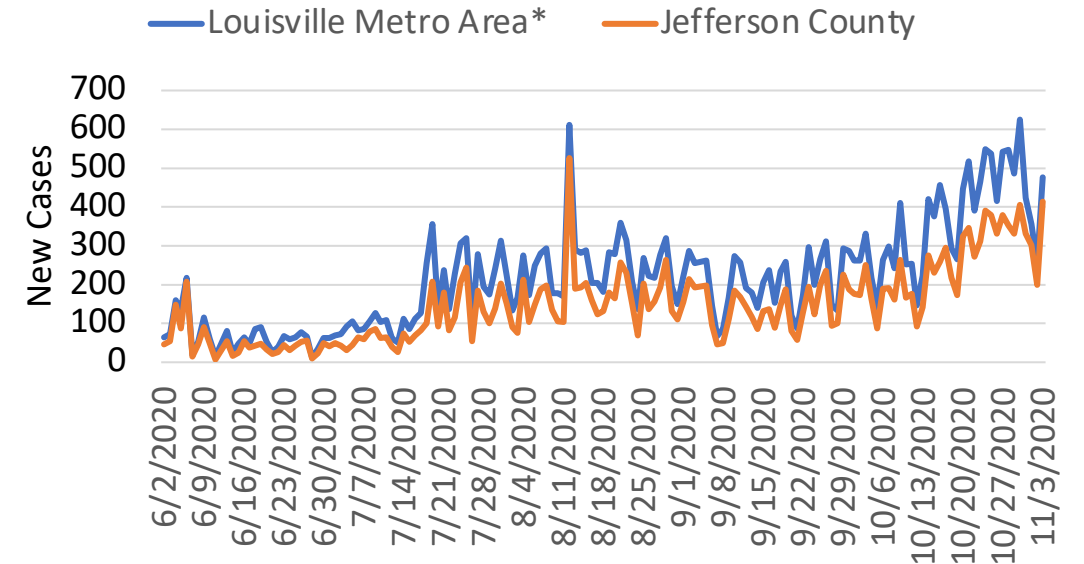
<https://chfs.ky.gov/agencies/dph/covid19/COVID19DailyReport.pdf>

Local New Covid-19 Cases  
(14-day Trailing Average)



\*Louisville Metro Area represents a sum over the U.S. OMB Metropolitan Statistical Area including Bullitt, Henry, Jefferson, Oldham, Shelby and Spencer counties in Kentucky and Clark, Floyd, Harrison and Washington counties in Indiana.

Local New Covid-19 Cases  
(Daily View)



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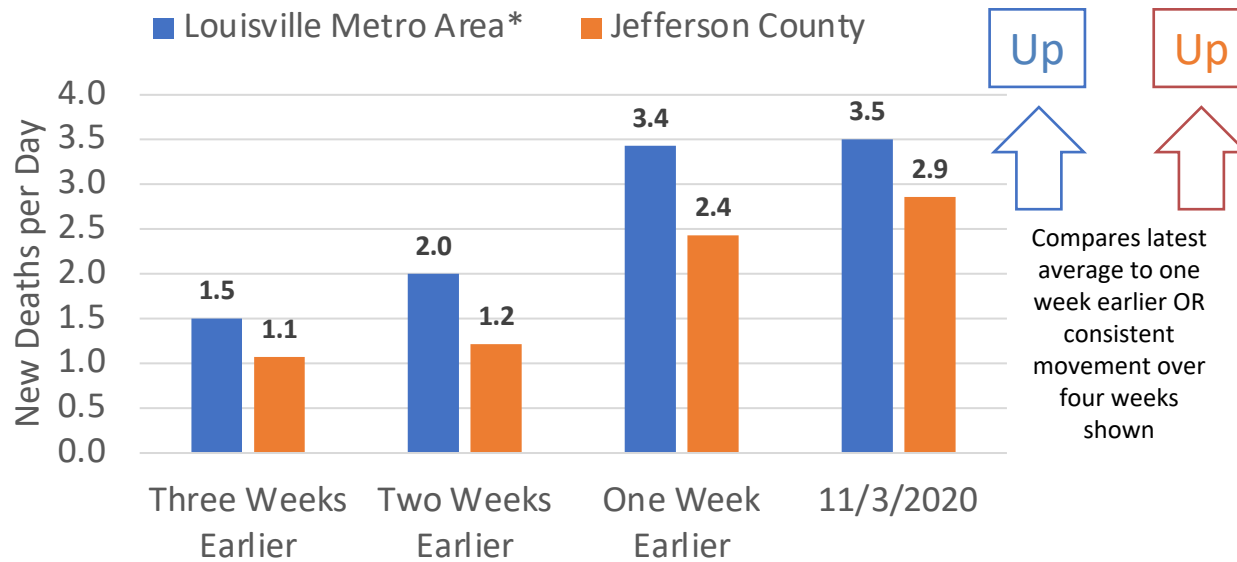
Sources: Kentucky Public Health daily report

<https://chfs.ky.gov/agencies/dph/covid19/COVID19DailyReport.pdf>

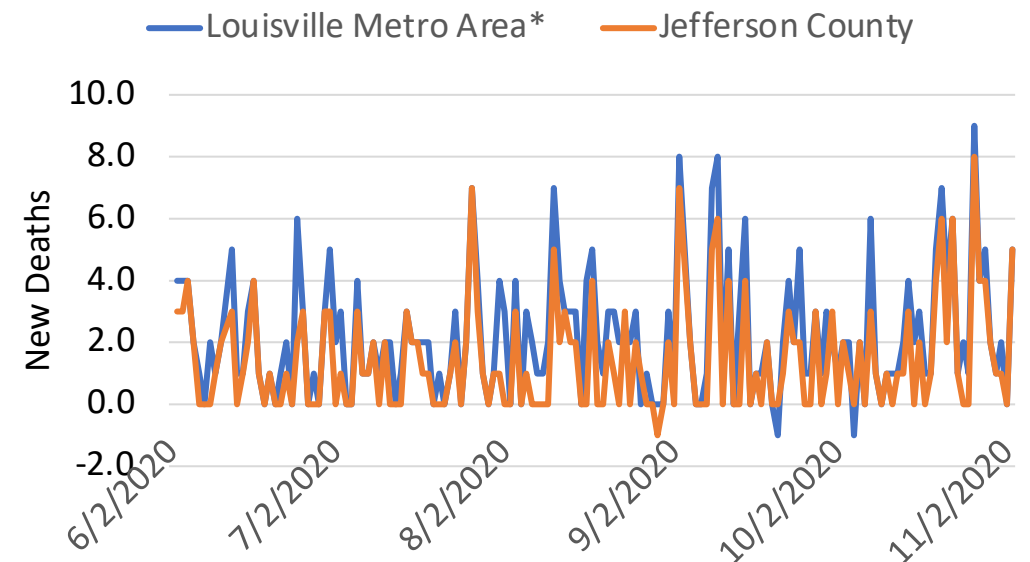
Indiana State Department of Health Data Hub

<https://hub.mph.in.gov/dataset/covid-19-county-wide-test-case-and-death-trends>

Local New Deaths - Covid-19  
(14-day Trailing Average)



Local New Deaths - Covid-19  
(Daily View)



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