### **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-19county-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**

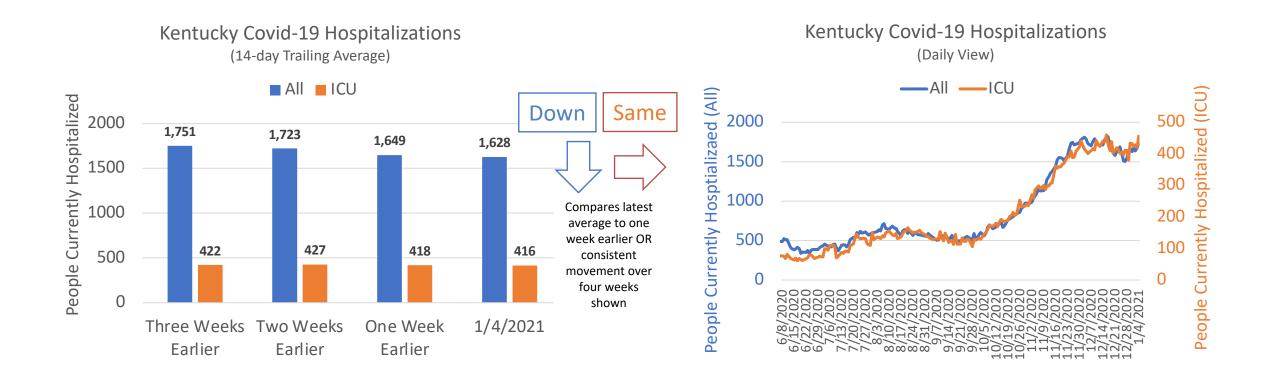
- A 14-day Trailing Average is computed by averaging all available daily values among the latest reported date and previous 13 calendar days. (For example, the average between July 16 and July 29, 2020 would be reported on July 29, 2020) If a day's data is unavailable within that time window (for instance, 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. (<a href="https://www.census.gov/programs-surveys/metro-micro/about/delineation-files.html">https://www.census.gov/programs-surveys/metro-micro/about/delineation-files.html</a>)
  - Kentucky counties: Bullitt, Henry, Jefferson, Oldham, Shelby and Spencer
  - Indiana counties: Clark, Floyd, Harrison and Washington

## **About the Trends**



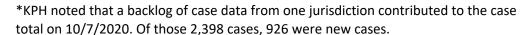
- For the 14-day-averages, Up or Down means an increase or decrease in the 14-day-average of a quantity between today and a week ago, where the absolute change is at least 5%, OR consistent directional change across the four weeks shown. Same means that the absolute change in the 14-day-average of a 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.





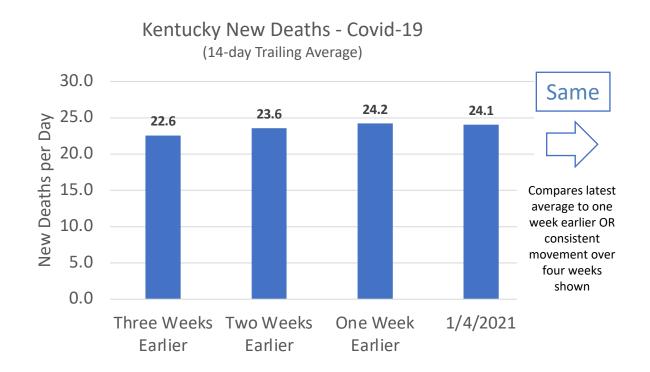


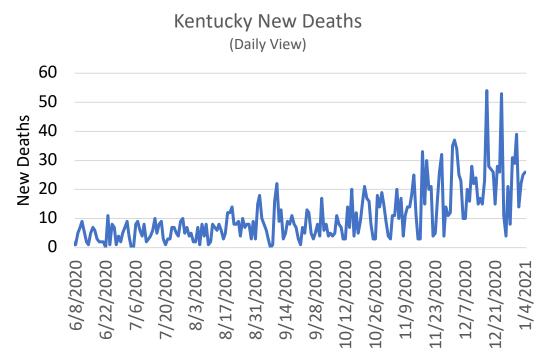
### Kentucky New Covid-19 Cases (14-day Trailing Average) 3500 3,294 Same 2,996 3000 Cases per Day 2,498 2,414 2500 2000 Compares latest 1500 average to one week earlier OR New 1000 consistent movement over 500 four weeks shown Three Weeks Two Weeks 1/4/2021 One Week Earlier Earlier Earlier



### Kentucky New Cases (Daily View) 5000 4500 4000 Cases 3500 3000 2500 2000 mount when we will be a second 1500 1000 500 1/4/2021 7/20/2020 8/10/2020 8/31/2020 10/12/2020 11/23/2020 12/14/2020 6/8/2020 6/29/2020 9/21/2020 11/2/2020

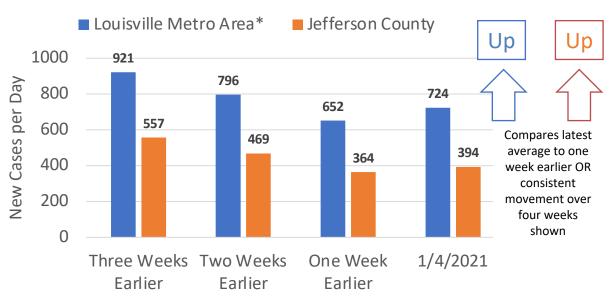
\*KPH noted that a backlog of case data from one jurisdiction contributed to the case total on 10/7/2020. Of those 2,398 cases, 926 were new cases.





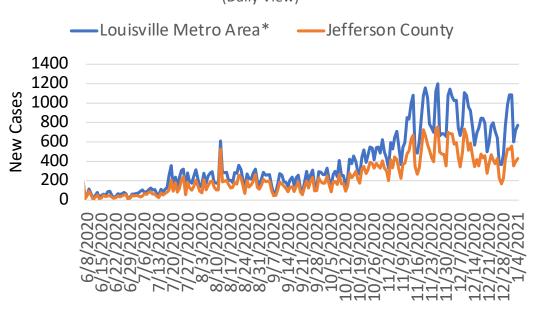


# Local New Covid-19 Cases (14-day Trailing Average)



\*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)



\*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.

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



#### (14-day Trailing Average) ■ Louisville Metro Area\* Jefferson County Same Down 7.0 6.1 New Deaths per Day 6.0 5.5 5.1 Compares latest 4.0 3.0 average to one 2.6 2.6 2.6 week earlier OR consistent movement over 1.0 four weeks shown 0.0 Three Weeks Two Weeks One Week 1/4/2021

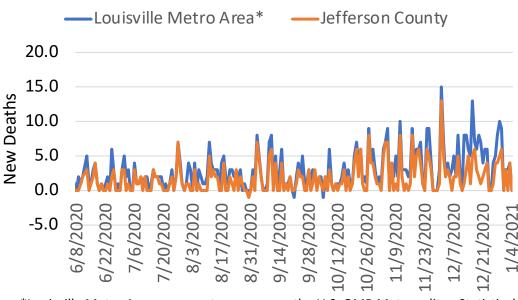
Earlier

Local New Deaths - Covid-19

\*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.

Earlier

# Local New Deaths - Covid-19 (Daily View)



\*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.

Sources: Kentucky Public Health daily report
<a href="https://chfs.ky.gov/agencies/dph/covid19/COVID19DailyReport.pdf">https://chfs.ky.gov/agencies/dph/covid19/COVID19DailyReport.pdf</a>
<a href="Indiana">Indiana</a> State Department of Health Data Hub
<a href="https://hub.mph.in.gov/dataset/covid-19-county-wide-test-case-and-death-trends">https://hub.mph.in.gov/dataset/covid-19-county-wide-test-case-and-death-trends</a>



Earlier