Greater Cincinnati COVID-19 Situational Awareness*

November 07, 2021

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How are we doing among those old enough to get the COVID-19 vaccines?
Percentage of the eligible population (currently 12 years and older) that have received at least one dose

Source: CDC County data. https://covid.cdc.gov/covid-data-tracker/#county-view. Data as of November 07, 2021. On October 28th duplicate vaccinations were removed from the Kentucky data by the CDC causing a decrease in the rate.
What is the COVID-19 vaccination rate in the entire population (all ages) over time?

Percentage of the total population with vaccines started and completed

<table>
<thead>
<tr>
<th>County</th>
<th>Population</th>
<th>Started</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams County, Ohio</td>
<td>27,698</td>
<td>9,676</td>
<td>8,573</td>
</tr>
<tr>
<td>Brown County, Ohio</td>
<td>43,432</td>
<td>17,156</td>
<td>15,979</td>
</tr>
<tr>
<td>Butler County, Ohio</td>
<td>383,134</td>
<td>207,027</td>
<td>193,531</td>
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<tr>
<td>Clermont County, Ohio</td>
<td>206,428</td>
<td>112,096</td>
<td>105,655</td>
</tr>
<tr>
<td>Clinton County, Ohio</td>
<td>41,968</td>
<td>18,937</td>
<td>17,793</td>
</tr>
<tr>
<td>Hamilton County, Ohio</td>
<td>817,473</td>
<td>491,926</td>
<td>457,580</td>
</tr>
<tr>
<td>Highland County, Ohio</td>
<td>43,161</td>
<td>15,974</td>
<td>14,717</td>
</tr>
<tr>
<td>Warren County, Ohio</td>
<td>234,602</td>
<td>140,958</td>
<td>134,304</td>
</tr>
<tr>
<td>Boone County, Kentucky</td>
<td>133,581</td>
<td>81,596</td>
<td>73,060</td>
</tr>
<tr>
<td>Campbell County, Kentucky</td>
<td>93,584</td>
<td>56,893</td>
<td>52,466</td>
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<tr>
<td>Grant County, Kentucky</td>
<td>25,069</td>
<td>11,901</td>
<td>10,883</td>
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<tr>
<td>Kenton County, Kentucky</td>
<td>166,998</td>
<td>100,037</td>
<td>89,847</td>
</tr>
<tr>
<td>Dearborn County, Indiana</td>
<td>49,458</td>
<td>30,146</td>
<td>27,572</td>
</tr>
<tr>
<td>Franklin County, Indiana</td>
<td>22,758</td>
<td>8,207</td>
<td>7,756</td>
</tr>
<tr>
<td>Ripley County, Indiana</td>
<td>28,324</td>
<td>13,362</td>
<td>12,415</td>
</tr>
</tbody>
</table>

Source: CDC County data. https://covid.cdc.gov/covid-data-tracker/#county-view. Data as of November 07, 2021. 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

Southwestern Ohio
Population: 1,797,896 Vaccines started: 1,000,081 Vaccines completed: 930,747

Southeastern Indiana
Population: 100,540 Vaccines started: 42,041 Vaccines completed: 39,455

Warren County, Ohio, Population: 234,602
started: 141,063 Completed: 132,651

Highland County, Ohio, Population: 43,161
started: 15,711 Completed: 14,434

Hamilton County, Ohio, Population: 817,473
started: 480,074 Completed: 445,402

Clinton County, Ohio, Population: 41,968
started: 18,664 Completed: 17,556

Ripley County, Indiana, Population: 28,324
started: 11,616 Completed: 10,919

Franklin County, Indiana, Population: 22,758
started: 8,783 Completed: 8,298

Dearborn County, Indiana, Population: 49,458
started: 21,642 Completed: 20,238

Source: ODH. https://coronavirus.ohio.gov/static/dashboards/vaccine_data.csv on November 7th, 2021
ISDH. https://hub.mph.in.gov/dataset/c484a6a3-2b2-4af9-6e2-c98b1c34547/resource/a4d23ae8-34c2-4951-85e0-3ea9345ee6e9/download/county-vaccinations-by-date.csv on November 7th, 2021
Seven day sum of new Covid cases per 100,000 people in each county with CDC levels


COVID cases in last two weeks and vaccines started in ZIP codes
ZIP codes with low vaccination rates and high case rates highlighted

Case count per 100k over last 14 days

% with vaccines started

Source: ODH data on 11-07-2021
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.

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

Hamilton County, Ohio
R = 1.07*

Fourteen County Region
R = 1.02

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.

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

Source: The Health Collaborative data as of 11/07/2021. Most recent 3 days highly subject to change.
Percentage of test results returned positive by age of patient for 14 county area

Source: The Health Collaborative data as of 11/07/2021. Most recent 3 days highly subject to change.
Number of COVID positive patients in Region 6 hospitals

Source: Ohio Hospital Association Hospital Resource Tracker on November 7th
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 November 7th.
Number of positive COVID-19 patients in Region 6 hospitals

Dashed line indicates a temporary centerline that will change over time. Source: Ohio Hospital Association Hospital Resource Tracker on November 7th.
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

Source: Surgenet data as of November 7th, 2021 at 19:11. Includes data from all regional acute care hospitals.
Reports of deaths tend to lag 1-2 months.