Confirmed COVID-19 Cases, Metropolitan and Nonmetropolitan Counties
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Report
Early COVID-19 focus was on major metropolitan areas, but rural areas of the United States have also been hit hard by the pandemic. As of May 1, 2022, there were a total of 80,076,156 cases and 979,486 deaths identified in counties, with 11,588,025 cases and 177,503 deaths (about 14.5 percent of cases and 18.1 percent of deaths) reported in non-metropolitan counties (data obtained from the Johns Hopkins University COVID-19 Data Repository*).

Map 1. Counties with confirmed COVID-19 Cases

Data source: Johns Hopkins University CSSE COVID-19 Data
https://github.com/CSSEGISandData/COVID-19

* Confirmed cases / 10,000 population based on 2010 ACS 5-year estimates.

Rural Health Research & Policy Centers
University of Iowa, College of Public Health

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But as many experts have pointed out, the rate of growth in cases is very different depending on location. Further, the stress on the health care delivery system is proportionate – a small number of cases creates stress for low-capacity systems just as a large volume of cases creates stress for larger capacity systems.

Note that this document reports on confirmed COVID-19 cases and those numbers will be affected by the availability and utilization of testing resources. Recent and updated maps, and the “progression” of cases throughout the country, can be seen on the animated map on the RUPRI Health web site: [http://ruprihealth.org/publications/policybriefs/2020/COVID History/](http://ruprihealth.org/publications/policybriefs/2020/COVID History/)

Map 1 (above) displays the rates of confirmed COVID-19 cases in metropolitan and nonmetropolitan counties. Table 1 shows metropolitan and nonmetropolitan county confirmed case and death counts. It also depicts the rate of cases and deaths per 10,000 population (based on the 2018 American Community Survey 5-year estimates). Finally, it shows the number and proportion of metropolitan and nonmetropolitan counties exceeding various case and death rate levels. Map 2 displays the rates of COVID-19 deaths in metropolitan and nonmetropolitan counties.

**Table 1. Metropolitan and Nonmetropolitan Counties. Confirmed cases, deaths, and rates**

<table>
<thead>
<tr>
<th></th>
<th>Metropolitan</th>
<th>Nonmetropolitan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counties (total)</td>
<td>1,166</td>
<td>1,976</td>
</tr>
<tr>
<td>Population (2010 census)</td>
<td>276,820,000</td>
<td>46,082,565</td>
</tr>
<tr>
<td>Counties w/ confirmed cases</td>
<td>1,165 (99.9%)</td>
<td>1,972 (99.8%)</td>
</tr>
<tr>
<td>Counties w/ deaths</td>
<td>1,165 (99.9%)</td>
<td>1,960 (99.2%)</td>
</tr>
<tr>
<td>Confirmed cases</td>
<td>68,488,131 (24.7%)</td>
<td>11,588,025 (25.1%)</td>
</tr>
<tr>
<td>Deaths</td>
<td>801,983 (0.3%)</td>
<td>177,503 (0.4%)</td>
</tr>
<tr>
<td>Cases/10K population</td>
<td>2,474</td>
<td>2,515</td>
</tr>
<tr>
<td>Deaths/10K population</td>
<td>28.97</td>
<td>38.52</td>
</tr>
<tr>
<td>Counties w/ 1000+ cases/10K</td>
<td>1,161 (99.6%)</td>
<td>1,963 (99.3%)</td>
</tr>
<tr>
<td>Counties w/ 1500+ cases/10K</td>
<td>1,142 (97.9%)</td>
<td>1,908 (96.6%)</td>
</tr>
<tr>
<td>Counties w/ 2000+ cases/10K</td>
<td>987 (84.6%)</td>
<td>1,596 (80.8%)</td>
</tr>
<tr>
<td>Counties w/ 5+ deaths/10K</td>
<td>1,165 (99.9%)</td>
<td>1,947 (98.5%)</td>
</tr>
<tr>
<td>Counties w/ 10+ deaths/10K</td>
<td>1,143 (98.0%)</td>
<td>1,904 (96.4%)</td>
</tr>
<tr>
<td>Counties w/ 25+ deaths/10K</td>
<td>809 (69.4%)</td>
<td>1,608 (81.4%)</td>
</tr>
<tr>
<td>Counties w/ 50+ deaths/10K</td>
<td>93 (8.0%)</td>
<td>520 (26.3%)</td>
</tr>
</tbody>
</table>


*COVID-19 case and death data for this ongoing report were previously obtained from USAFacts.org. Reports after 8/15/2020 use data from the [COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University](https://github.com/CSSEGISandData/COVID-19). Similarly, previous reports had used population data from the U.S. 2010 decennial Census. Current reports utilize data from the Census Bureau’s 2018 American Community Survey 5-year population estimates.

Additional changes were made to the report starting 4/26/2021 to better account for the Utah practice of providing aggregated incidence and mortality data for less populous counties.

All data in this brief are based on county-level counts to facilitate metropolitan/nonmetropolitan reporting. Cases and deaths that could not be attributed to a county are excluded, meaning that national figures are undercounts.
Map 2. Counties with COVID-19 Deaths

Counties with COVID-19 Deaths
May 1, 2022
Metro deaths: 801,983  Nonmetro deaths: 177,503
Metro rate: 28.97  Nonmetro rate: 38.52

NOTE: Category thresholds are revised starting with 5/1/2022 report.

* Deaths/10,000 population based on 2018 ACS 5-yr estimates.
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Data source: Johns Hopkins University CSSE COVID-19 Data
https://github.com/CSSEGISandData/COVID-19
Map 3. State Metropolitan/Nonmetropolitan COVID-19 One-week Case Rates

Metropolitan/Nonmetropolitan COVID-19 Cases

New cases for week ending: May 1, 2022

* Cases / 10,000 population based on 2018 ACS 5-year estimates.
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