

# RUPRI Center for Rural Health Policy Analysis

## Rural Data Update

Brief No. 2020-6

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<http://www.public-health.uiowa.edu/rupri/>

### County-Level 14-Day COVID-19 Case Trajectories

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#### Background

This document updates maps and tables for the Rural Data Brief "County-Level 14-Day COVID-19 Case Trajectories" ([https://ruprihealth.org/publications/policybriefs/2020/County\\_COVID\\_Trajectories.pdf](https://ruprihealth.org/publications/policybriefs/2020/County_COVID_Trajectories.pdf)). This data brief looks at the new case counts in every US county between July 4, 2022, and July 17, 2022, to quantitatively evaluate 14-day trends in metropolitan, nonmetropolitan, and noncore counties. Previous versions of this document can be found at: [https://ruprihealth.org/publications/policybriefs/2020/COVID\\_Projects.html](https://ruprihealth.org/publications/policybriefs/2020/COVID_Projects.html)

Data on confirmed COVID-19 cases were obtained from the Johns Hopkins University COVID-19 Data Repository<sup>1</sup>. The number of cases in each county was aggregated for each week in the two-week period, and the totals for each week were compared. To minimize the impact of counties with very minor real variation in weekly counts, those with a change in case count of two or fewer (either increase or decrease) were coded as "Same number, both weeks." Counties that saw more than a 25 percent increase or decrease in number of cases between the weeks were labelled "notable" (including counties that went from 3 or more to none [notable decrease] and counties that went from none to 3 or more [notable increase]). Counties in the 50 states and the District of Columbia were classified as metropolitan, nonmetropolitan, or noncore based on Urban Influence Codes<sup>2</sup>.

**Table 1. 14-day trends<sup>a</sup> in newly confirmed COVID-19 cases, by county geography: 7/4/2022 – 7/17/2022**

	<b>Metropolitan (n = 1,166)</b>	<b>Nonmetropolitan (n = 641)</b>	<b>Noncore (n = 1,335)</b>
No cases reported	15 (1.3%)	18 (2.8%)	81 (6.1%)
Decreasing, notable <sup>b</sup>	78 (6.7%)	47 (7.3%)	167 (12.5%)
Decreasing, not notable	204 (17.5%)	84 (13.1%)	90 (6.7%)
Same number, both weeks <sup>c</sup>	73 (6.3%)	47 (7.3%)	291 (21.8%)
Increasing, not notable	337 (28.9%)	145 (22.6%)	121 (9.1%)
Increasing, notable	459 (39.4%)	300 (46.8%)	585 (43.8%)

<sup>a</sup>Comparison of number of new cases in first week of 14-day period with new cases in second week. Nebraska (July 2022) stopped reporting county-level case data. This means that national figures are undercounts.

<sup>b</sup>"Notable" trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent.

<sup>c</sup>Includes counties with an absolute change in count of two or fewer.



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**Table 2. 14-day trends<sup>a</sup> in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 7/4/2022 – 7/17/2022**

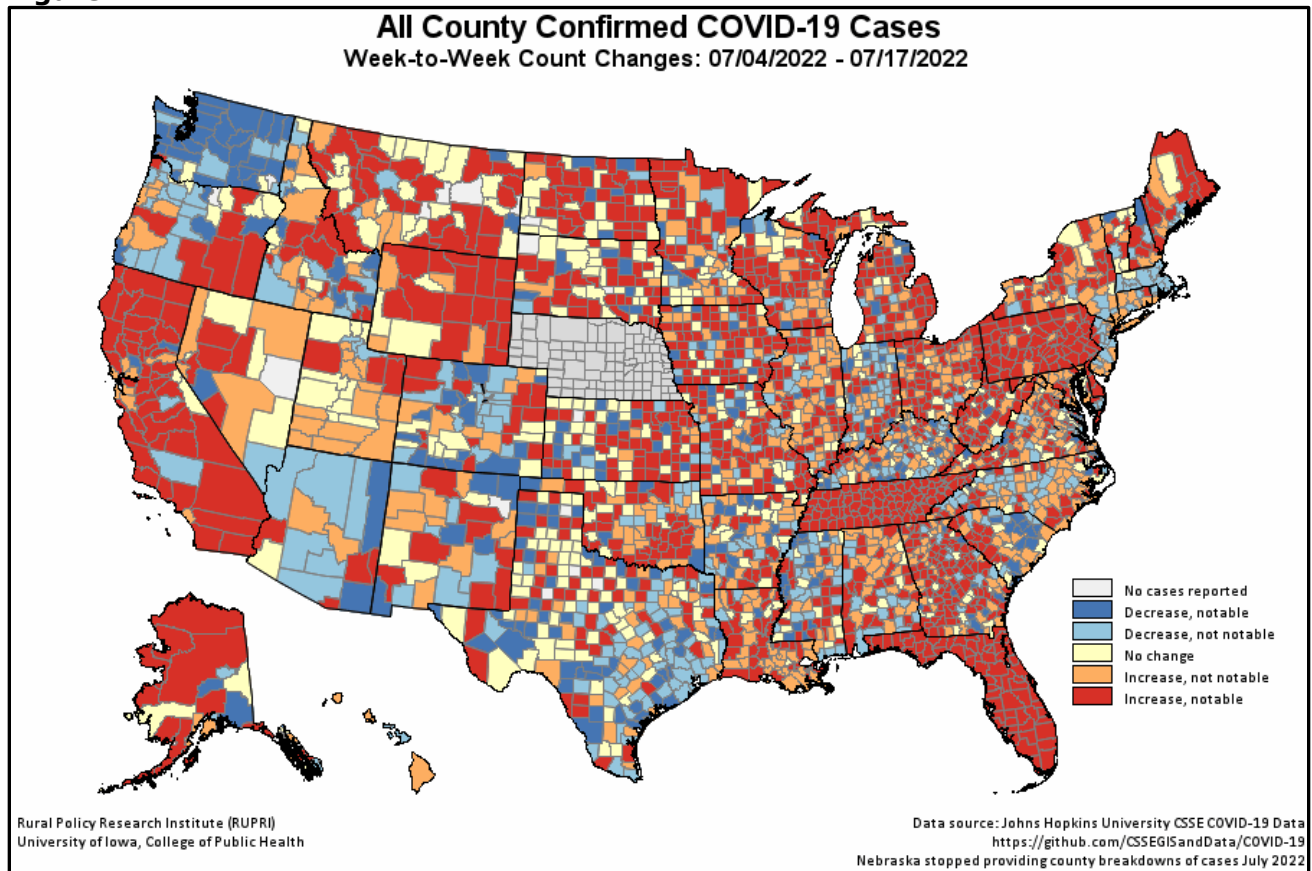
	<b>Metropolitan (n=1,151 of 1,166)</b>		<b>Nonmetropolitan (n=623 of 641)</b>		<b>Noncore (n=1,254 of 1,335)</b>	
<i>Any decrease</i>	282	(24.5%)	131	(21.0%)	257	(20.5%)
Notable decrease <sup>b</sup>	78	(6.8%)	47	(7.5%)	167	(13.3%)
Same number, both weeks <sup>c</sup>	73	(6.3%)	47	(7.5%)	291	(23.2%)
<i>Any increase</i>	796	(69.2%)	445	(71.4%)	706	(56.3%)
Notable increase <sup>b</sup>	459	(39.9%)	300	(48.2%)	585	(46.7%)
Increase of 100% or more	56	(4.9%)	48	(7.7%)	223	(17.8%)

<sup>a</sup>Comparison of number of new cases in first week of 14-day period with new cases in second week. Nebraska (July 2022) stopped reporting county-level case data. This means that national figures are undercounts.

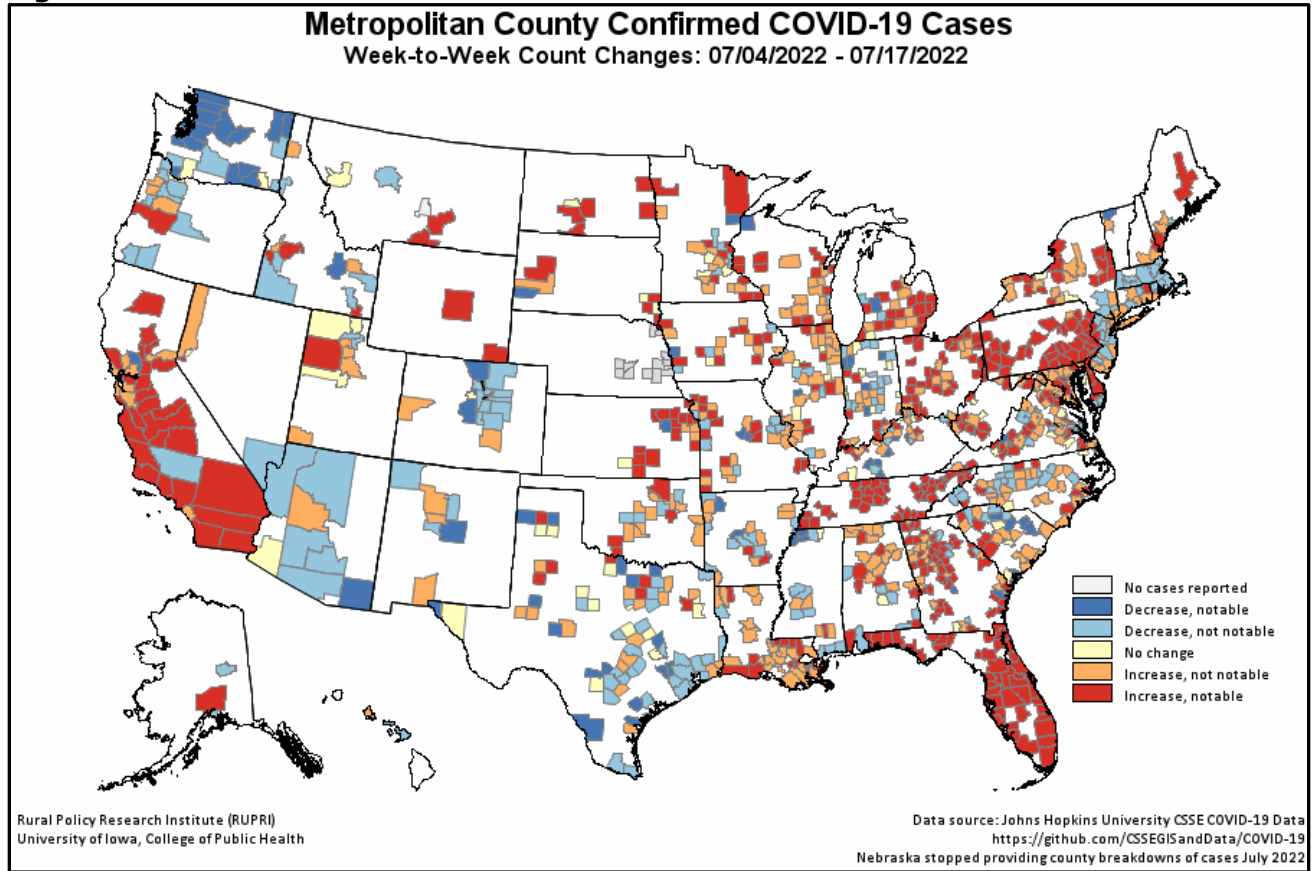
<sup>b</sup>“Notable” trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent.

<sup>c</sup>Includes counties with an absolute change in count of two or fewer.

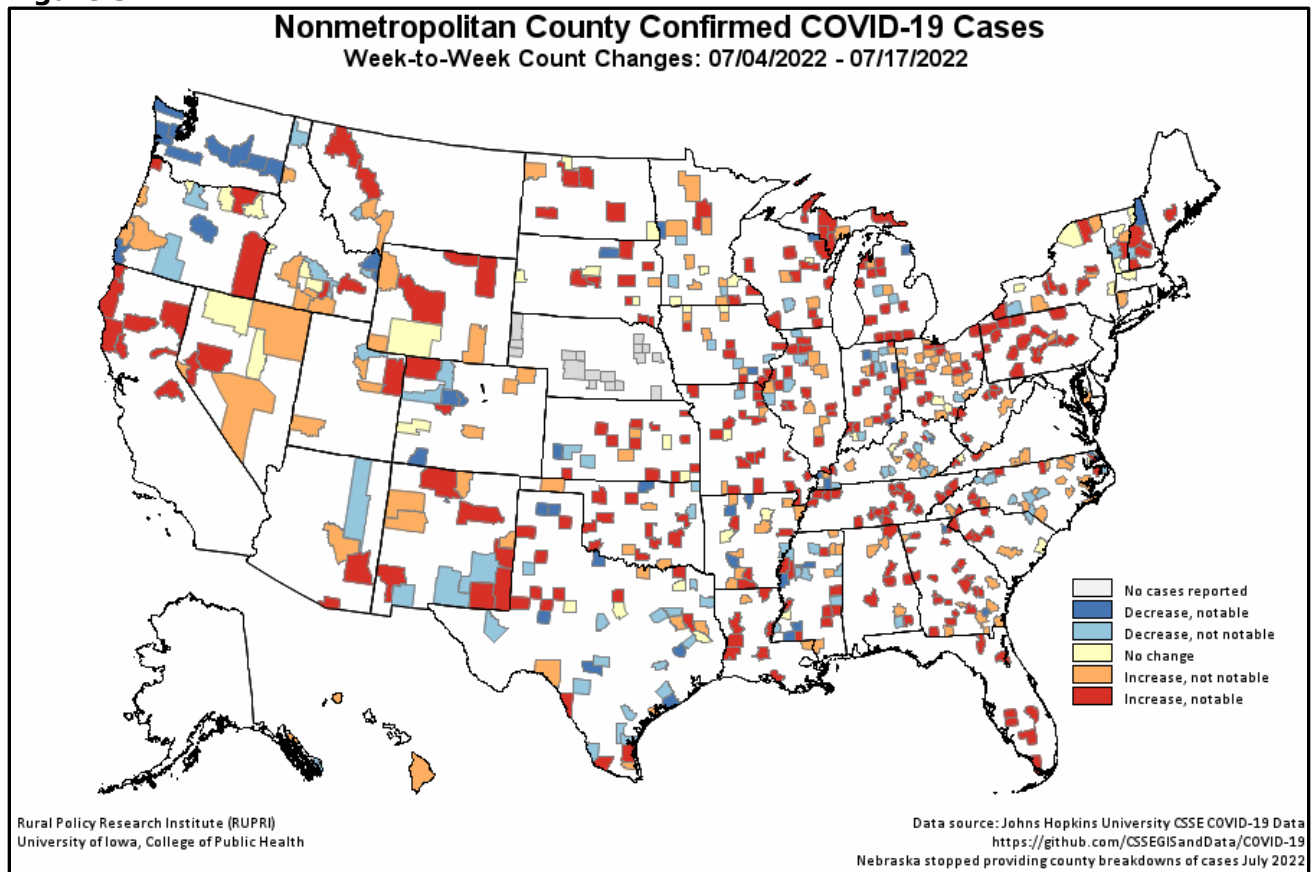
**Figure 1.**



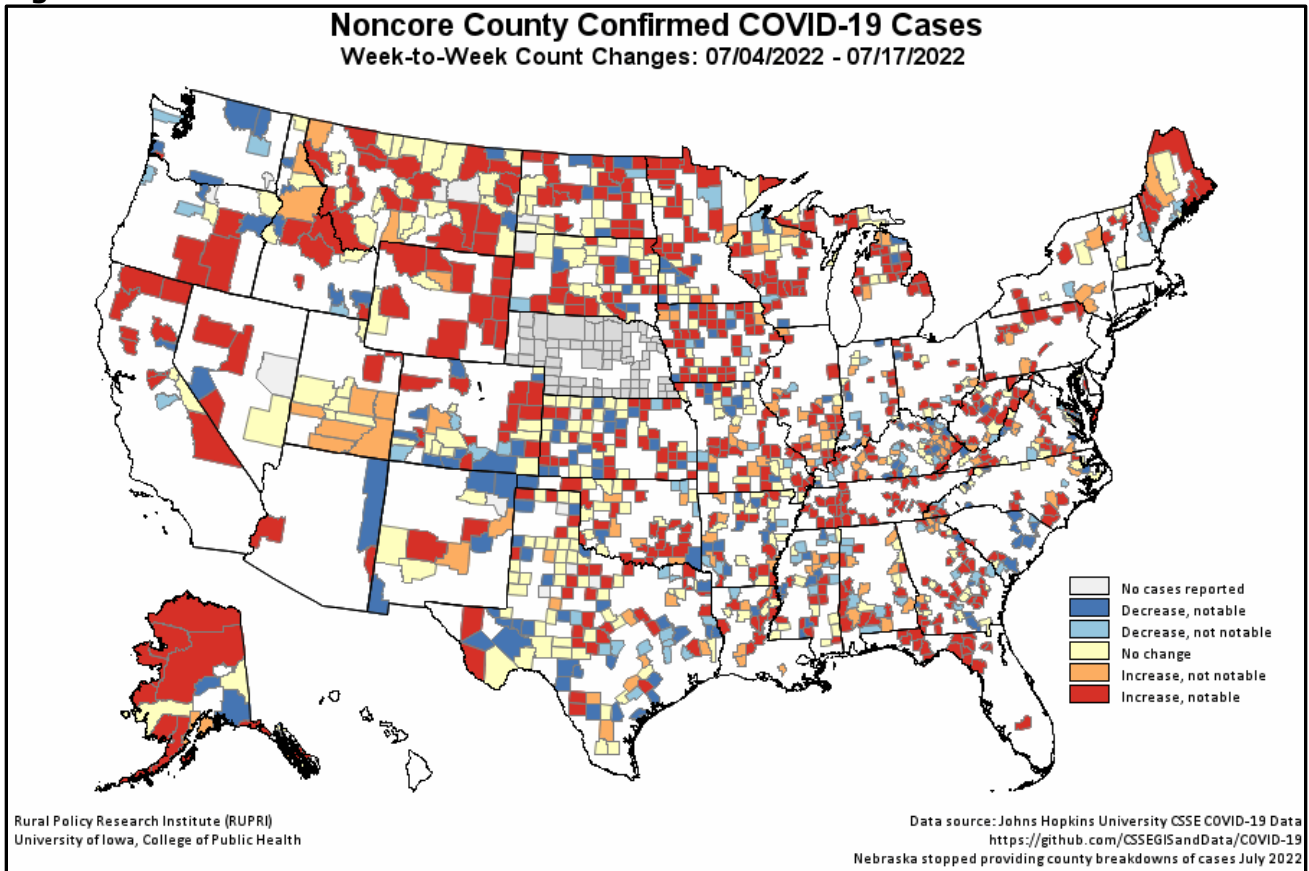
**Figure 2.**



**Figure 3.**



**Figure 4.**



<sup>1</sup> COVID-19 case and death data for this ongoing report were previously obtained from [USAFacts.org](https://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). While both sources employ similar approaches and resources to produce their data, the Johns Hopkins data is released in a more timely fashion making it more suitable for use in these reports.

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.

<sup>2</sup> U.S. Department of Agriculture, Economic Research Service (2019). "Urban Influence Codes." Retrieved May 20, 2020 from <https://www.ers.usda.gov/data-products/urban-influence-codes/>.