

# 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

Fred Ullrich, BA; and Keith Mueller, PhD

#### 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 June 20, 2021, and July 3, 2021, 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: 6/20/2021 – 7/3/2021**

	<b>Metropolitan (n = 1,166)</b>	<b>Nonmetropolitan (n = 641)</b>	<b>Noncore (n = 1,335)</b>
No cases reported	30 (2.6%)	38 (5.9%)	225 (16.9%)
Decreasing, notable <sup>b</sup>	270 (23.2%)	165 (25.7%)	187 (14.0%)
Decreasing, not notable	106 (9.1%)	20 (3.1%)	13 (1.0%)
Same number, both weeks <sup>c</sup>	263 (22.6%)	166 (25.9%)	575 (43.1%)
Increasing, not notable	98 (8.4%)	24 (3.7%)	9 (0.7%)
Increasing, notable	399 (34.2%)	228 (35.6%)	326 (24.4%)

<sup>a</sup>Comparison of number of new cases in first week of 14-day period with new cases in second week.

<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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RURAL POLICY RESEARCH INSTITUTE

Riverside Dr., Iowa City, IA 52242-2007, (319) 384-3830

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

E-mail: [cph-rupri-inquiries@uiowa.edu](mailto:cph-rupri-inquiries@uiowa.edu)

RUPRI Center for Rural Health Policy Analysis,  
University of Iowa College of Public Health, Department of Health Management and Policy, 145

**Table 2. 14-day trends<sup>a</sup> in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 6/20/2021 – 7/3/2021**

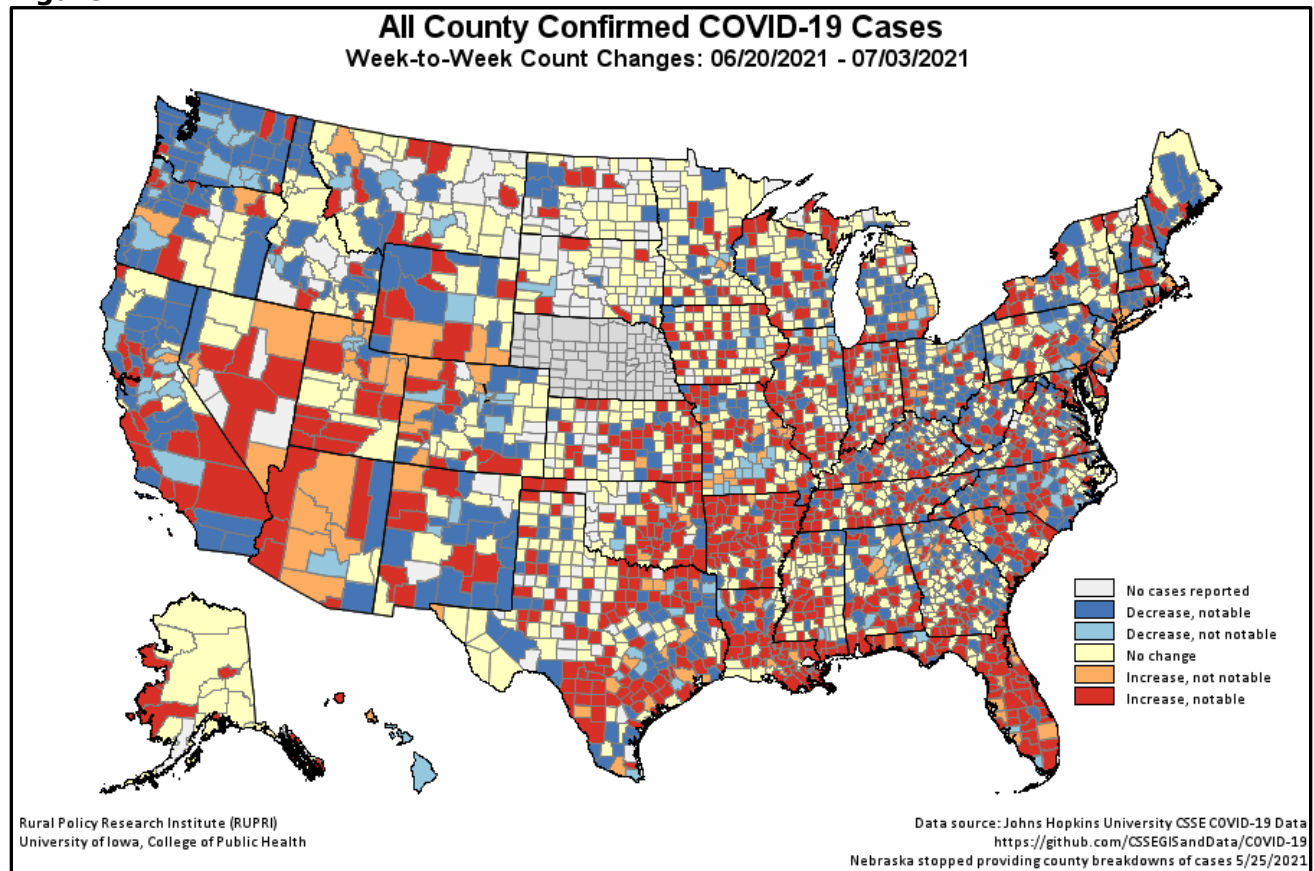
	<b>Metropolitan (n = 1,136 of 1,166)</b>	<b>Nonmetropolitan (n = 603 of 641)</b>	<b>Noncore (n = 1,110 of 1,335)</b>
Any decrease	376 (33.1%)	185 (30.7%)	200 (18.0%)
Notable decrease <sup>b</sup>	270 (23.8%)	165 (27.4%)	187 (16.8%)
Same number, both weeks <sup>c</sup>	263 (23.2%)	166 (27.5%)	575 (51.8%)
Any increase	497 (43.8%)	252 (41.8%)	335 (30.2%)
Notable increase <sup>b</sup>	399 (35.1%)	228 (37.8%)	326 (29.4%)
Increase of 100% or more	159 (14.0%)	125 (20.7%)	210 (18.9%)

<sup>a</sup>Comparison of number of new cases in first week of 14-day period with new cases in second week.

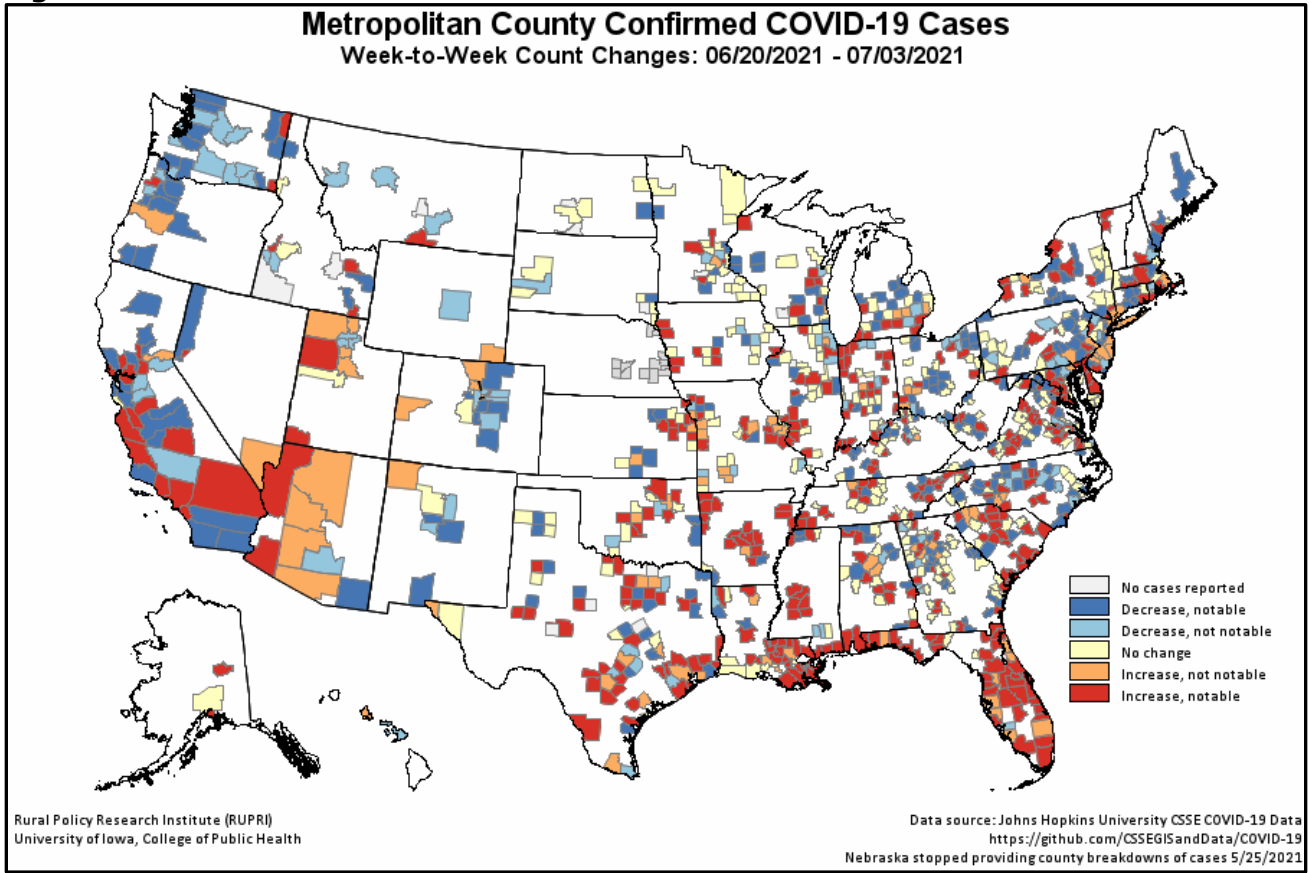
<sup>b</sup>"Notable" trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent.

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

**Figure 1.**



**Figure 2.**



**Figure 3.**

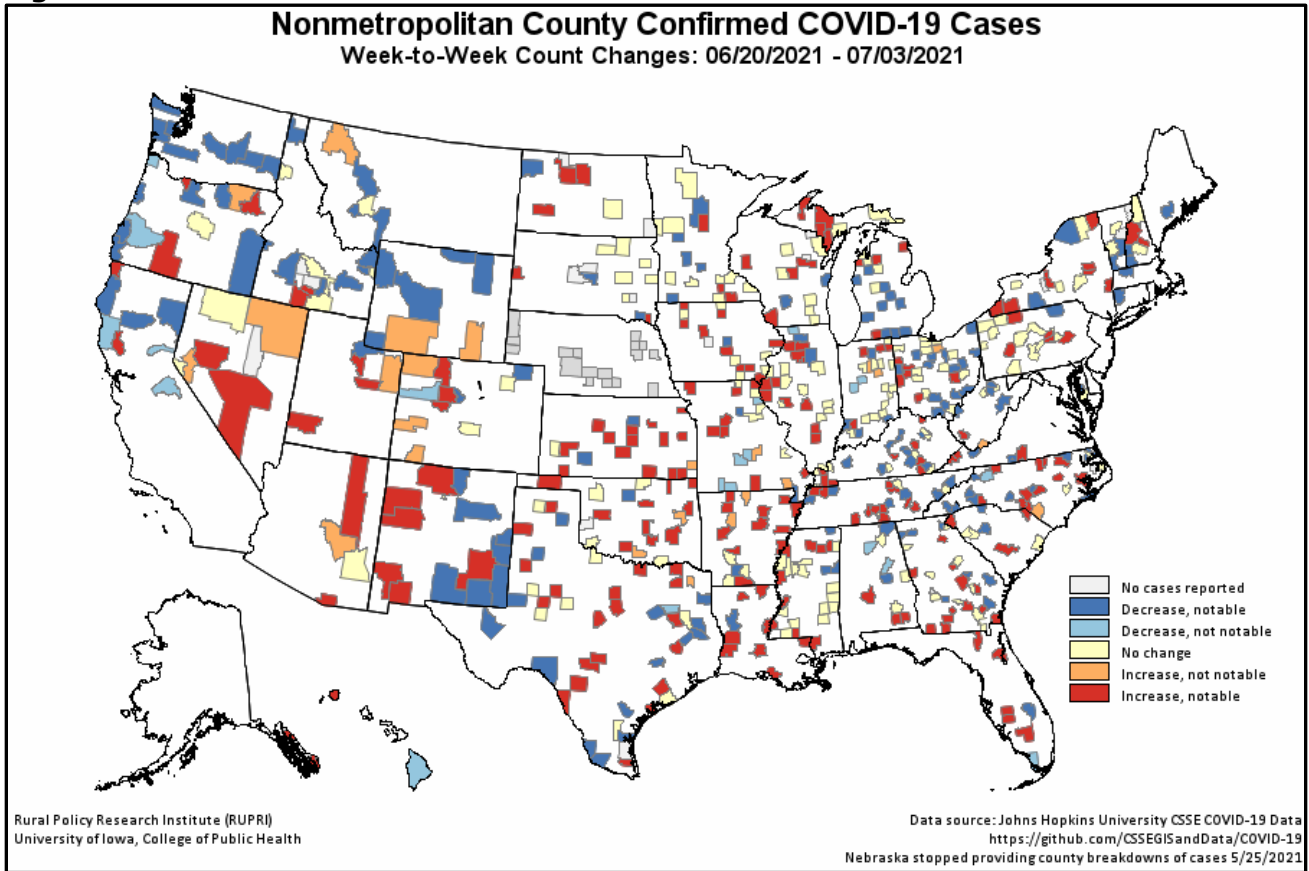
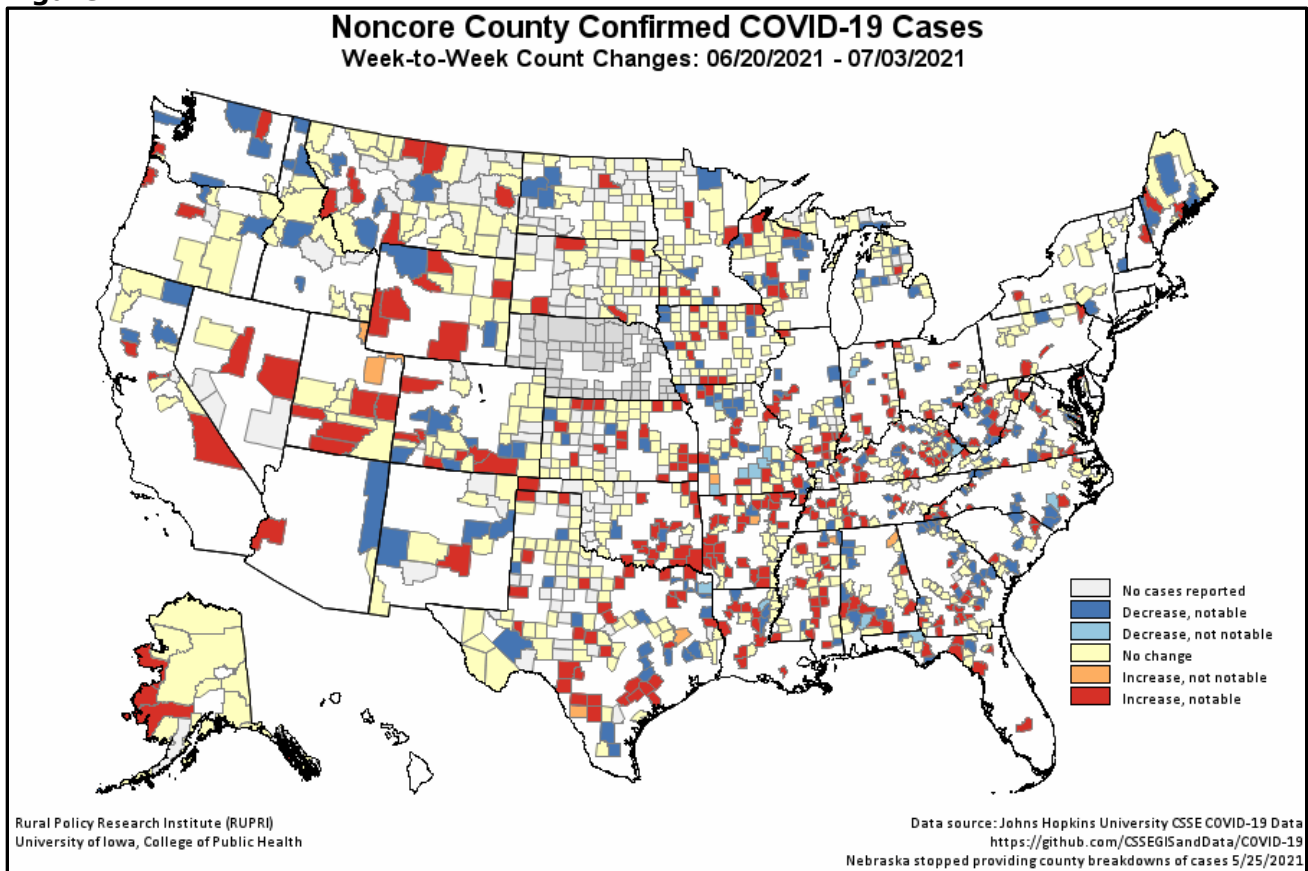


Figure 4.



<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/>.