

# RUPRI Center for Rural Health Policy Analysis

## Rural Data Update

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### 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 January 24, 2021, and February 6, 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: 1/24/2021 – 2/6/2021**

	Metropolitan (n = 1,166)	Nonmetropolitan (n = 641)	Noncore (n = 1,335)
No cases reported	7 (0.6%)	4 (0.6%)	34 (2.5%)
Decreasing, notable <sup>b</sup>	460 (39.5%)	268 (41.8%)	532 (39.9%)
Decreasing, not notable	416 (35.7%)	166 (25.9%)	167 (12.5%)
Same number, both weeks <sup>c</sup>	68 (5.8%)	50 (7.8%)	299 (22.4%)
Increasing, not notable	96 (8.2%)	65 (10.1%)	72 (5.4%)
Increasing, notable	119 (10.2%)	88 (13.7%)	231 (17.3%)

<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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**Table 2. 14-day trends<sup>a</sup> in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 1/24/2021 – 2/6/2021**

	Metropolitan (n = 1,159 of 1,166)		Nonmetropolitan (n = 637 of 641)		Noncore (n = 1,301 of 1,335)	
Any decrease	876	(75.6%)	434	(68.1%)	699	(53.7%)
Notable decrease <sup>b</sup>	460	(39.7%)	268	(42.1%)	532	(40.9%)
Same number, both weeks <sup>c</sup>	68	(5.9%)	50	(7.8%)	299	(23.0%)
Any increase	215	(18.6%)	153	(24.0%)	303	(23.3%)
Notable increase <sup>b</sup>	119	(10.3%)	88	(13.8%)	231	(17.8%)
Increase of 100% or more	26	(2.2%)	18	(2.8%)	98	(7.5%)

<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.**

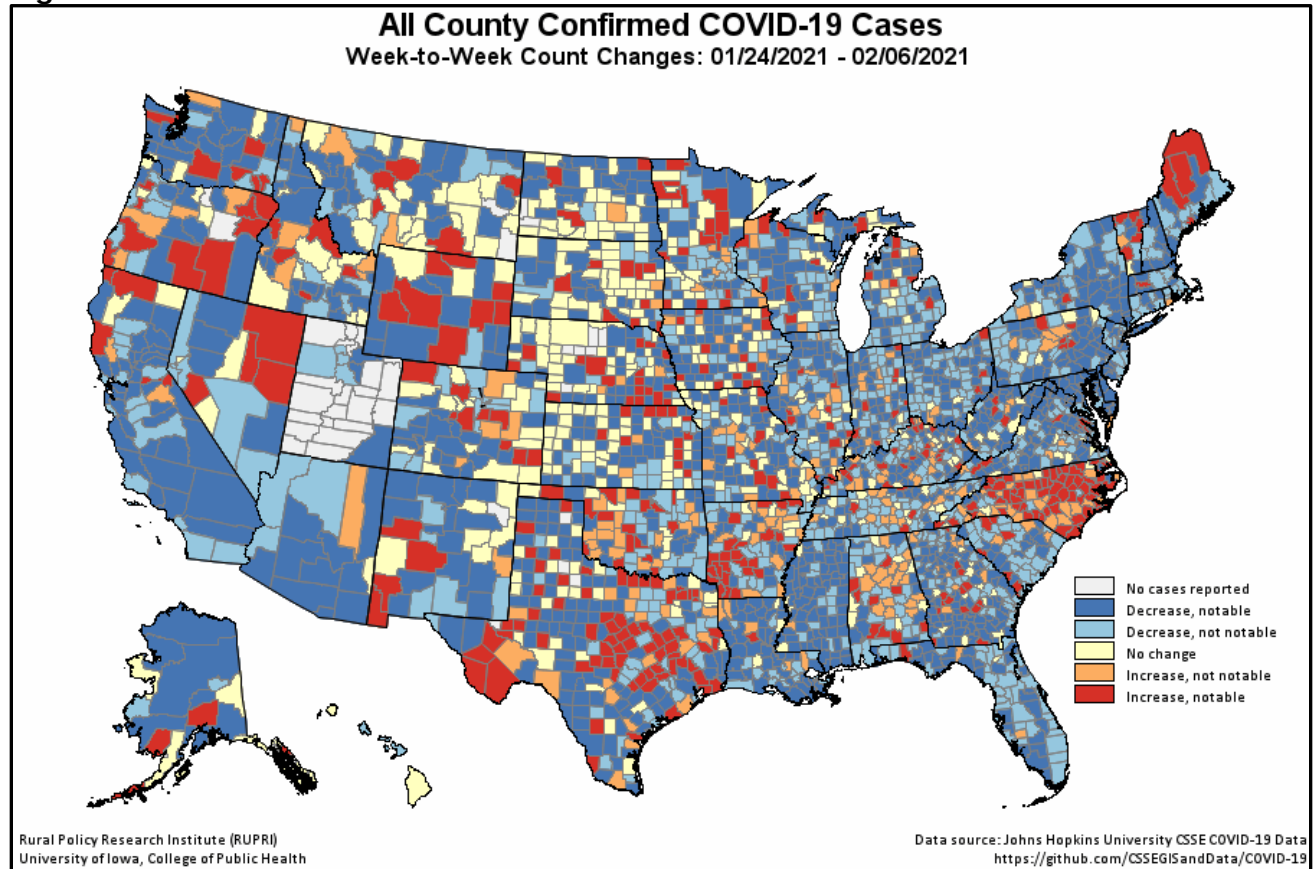


Figure 2.

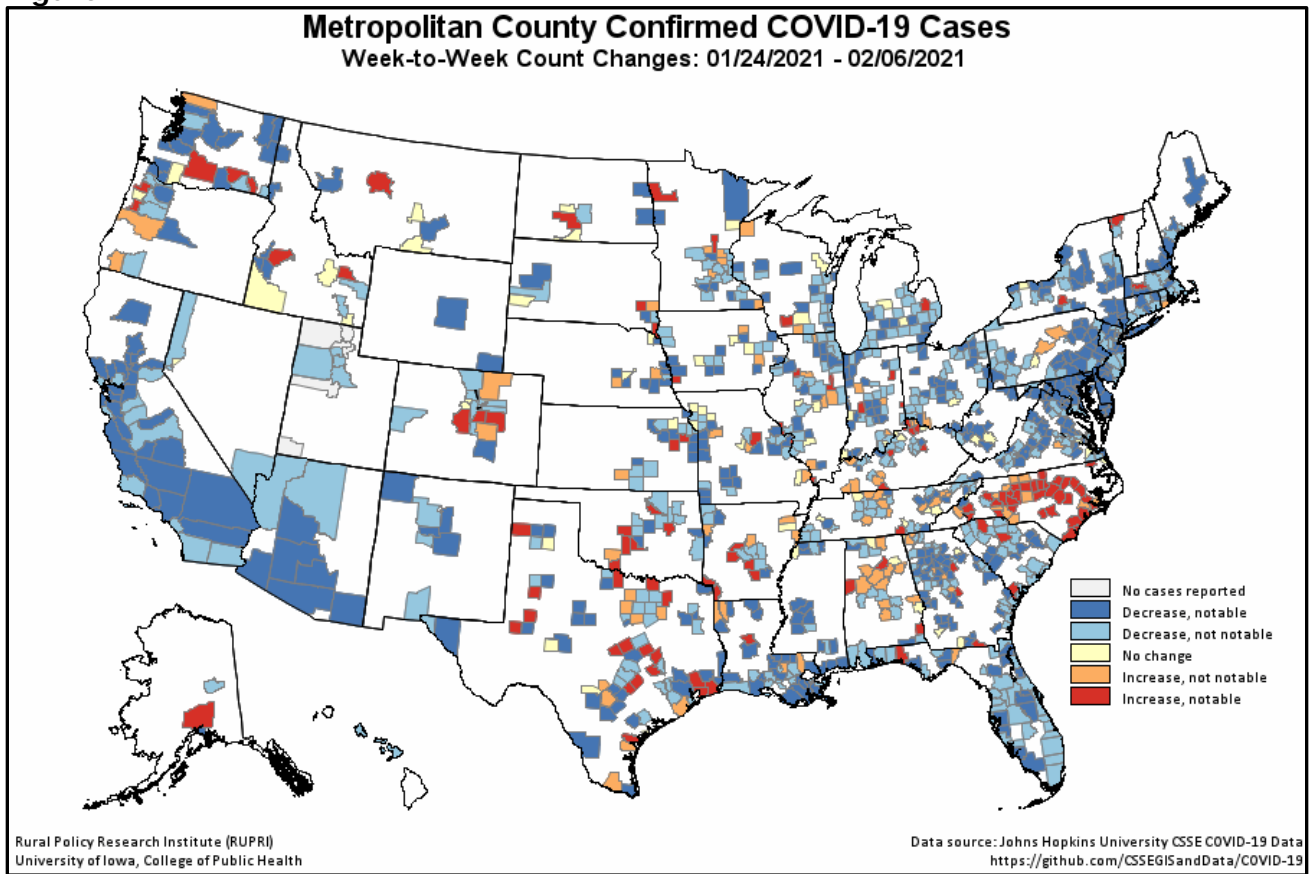


Figure 3.

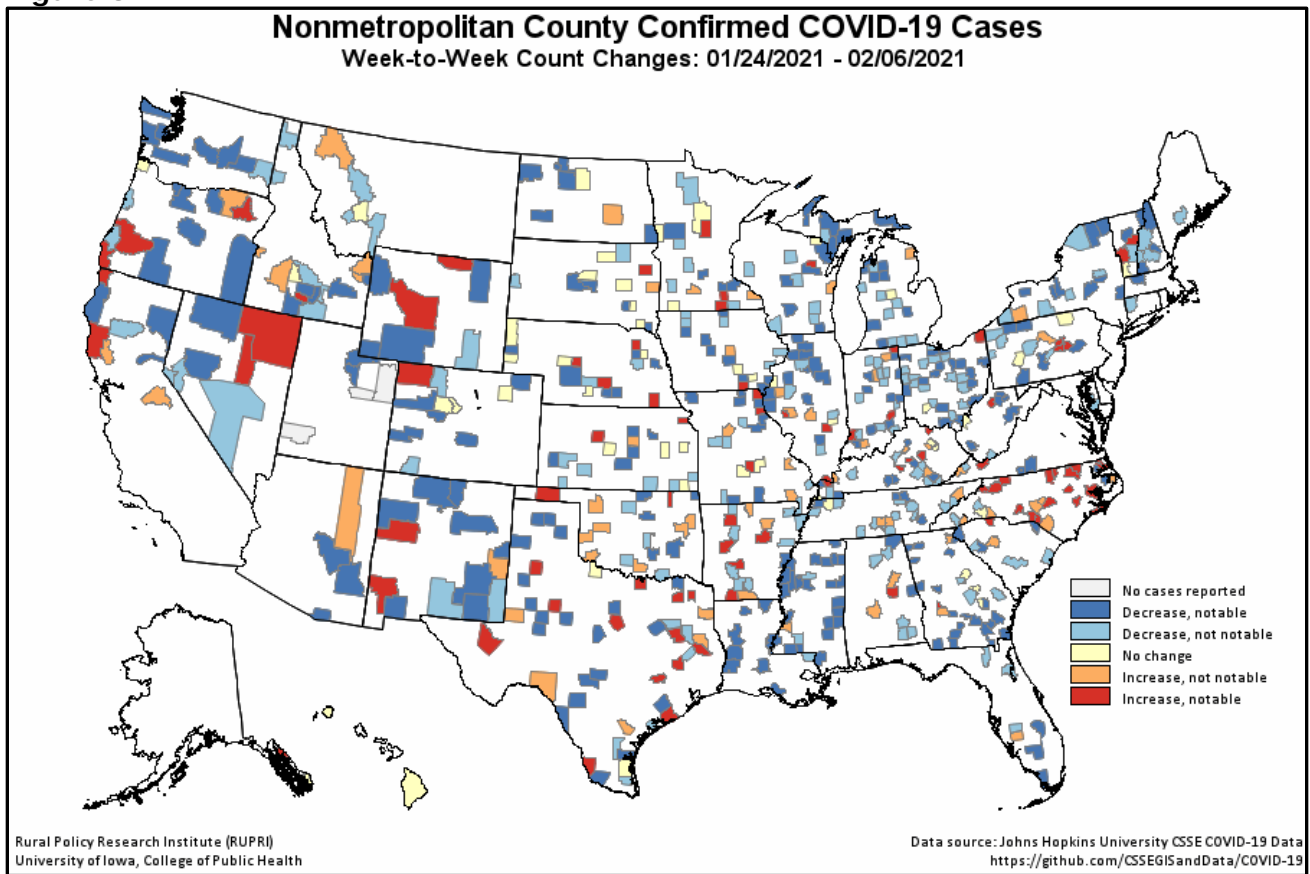
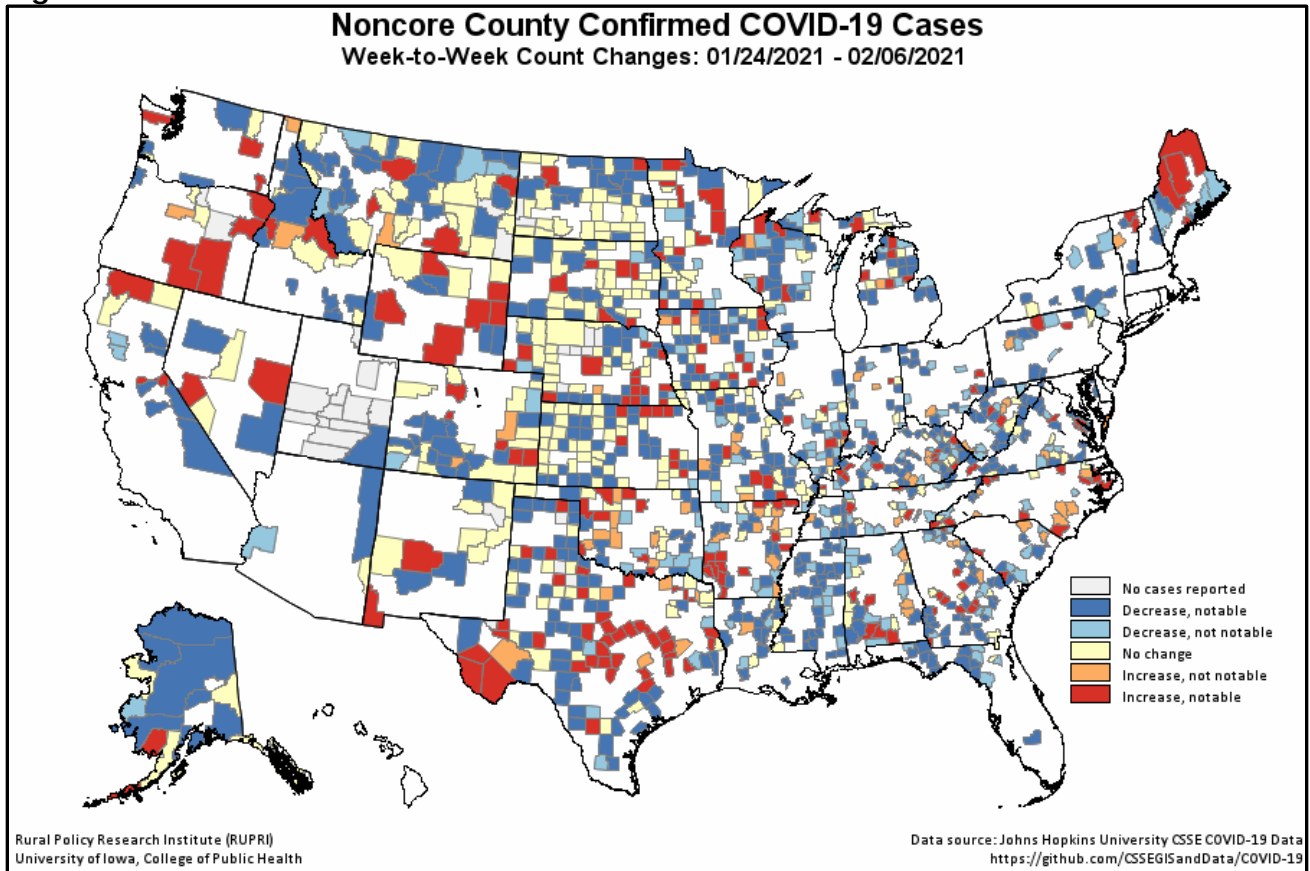


Figure 4.



<sup>1</sup> COVID-19 case and death data for this ongoing report were previously obtained from [USA Facts.org](https://datafairs.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.

<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/>.