## 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" (<a href="https://ruprihealth.org/publications/policybriefs/2020/County-COVID Trajectories.pdf">https://ruprihealth.org/publications/policybriefs/2020/County-COVID Trajectories.pdf</a>). This data brief looks at the new case counts in every US county between November 14, 2021, and November 27, 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

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: 11/14/2021 - 11/27/2021

		Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	6	(0.5%)	4	(0.6%)	28	(2.1%)	
Decreasing, notable <sup>b</sup>	540	(46.3%)	360	(56.2%)	688	(51.5%)	
Decreasing, not notable	319	(27.4%)	130	(20.3%)	137	(10.3%)	
Same number, both weeks <sup>c</sup>	83	(7.1%)	53	(8.3%)	257	(19.3%)	
Increasing, not notable	135	(11.6%)	38	(5.9%)	65	(4.9%)	
Increasing, notable	83	(7.1%)	56	(8.7%)	160	(12.0%)	

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

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



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

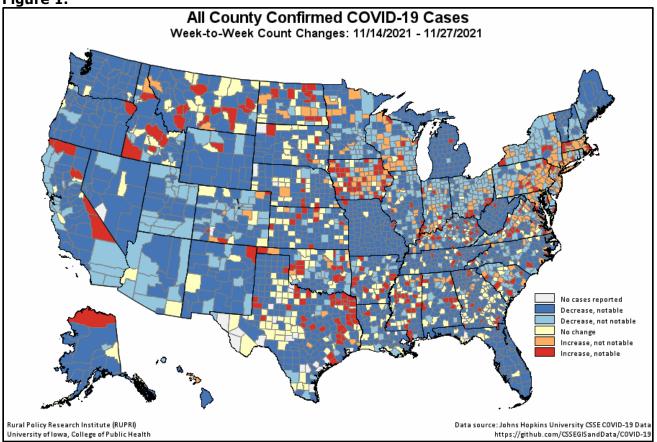
Table 2. 14-day trends<sup>a</sup> in newly confirmed COVID-19 cases, in counties with any cases, by

county geography: 11/14/2021 - 11/27/2021

	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,160)	of 1,166)	(n = 637)	7 of 641)	(n = 1,307	of 1,335)
Any decrease	859	(74.1%)	490	(76.9%)	825	(63.1%)
Notable decrease <sup>b</sup>	540	(46.6%)	360	(56.5%)	688	(52.6%)
Same number, both weeks <sup>c</sup>	83	(7.2%)	53	(8.3%)	257	(19.7%)
Any increase	218	(18.8%)	94	(14.8%)	225	(17.2%)
Notable increase <sup>b</sup>	83	(7.2%)	56	(8.8%)	160	(12.2%)
Increase of 100% or more	13	(1.1%)	17	(2.7%)	71	(5.4%)

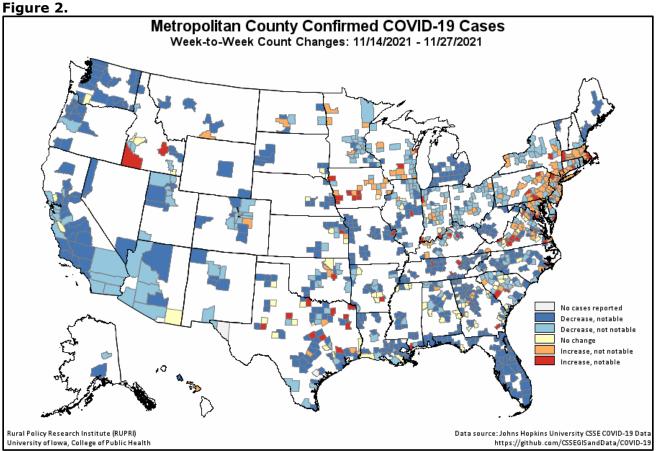
<sup>&</sup>lt;sup>a</sup>Comparison of number of new cases in first week of 14-day period with new cases in second week.

Figure 1.

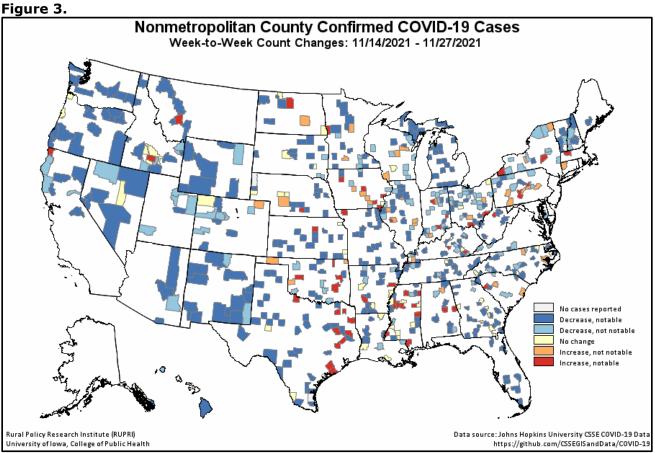


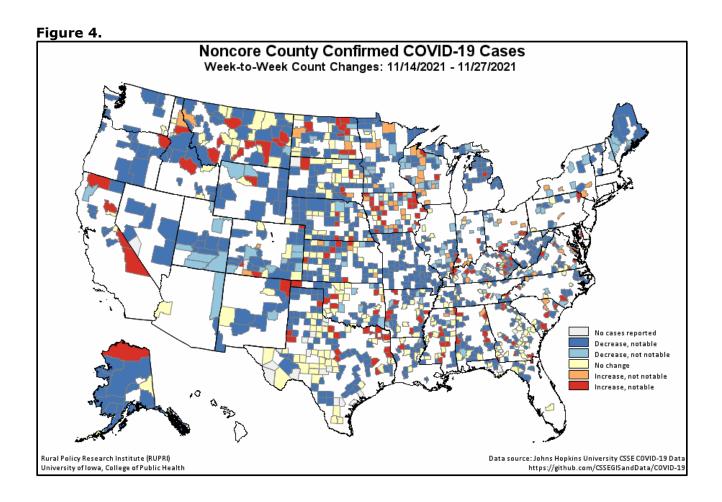
b"Notable" trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent.

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









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>&</sup>lt;sup>1</sup> COVID-19 case and death data for this ongoing report were previously obtained from <u>USAFacts.org</u>. Reports after 8/15/2020 use data from the <u>COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University</u>. 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>&</sup>lt;sup>2</sup> U.S. Department of Agriculture, Economic Research Service (2019). "Urban Influence Codes." Retrieved May 20, 2020 from <a href="https://www.ers.usda.gov/data-products/urban-influence-codes/">https://www.ers.usda.gov/data-products/urban-influence-codes/</a>.