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). This data brief looks at the new case counts in every US county between January 17, 2021, and January 30, 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 Repository¹. 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 Codes².

Table 1. 14-day trends^a in newly confirmed COVID-19 cases, by county geography: 1/17/2021 – 1/30/2021

		Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	7	(0.6%)	5	(0.8%)	28	(2.1%)	
Decreasing, notable ^b	338	(29.0%)	257	(40.1%)	522	(39.1%)	
Decreasing, not notable	533	(45.7%)	207	(32.3%)	203	(15.2%)	
Same number, both weeks ^c	56	(4.8%)	39	(6.1%)	283	(21.2%)	
Increasing, not notable	151	(13.0%)	76	(11.9%)	108	(8.1%)	
Increasing, notable	81	(6.9%)	57	(8.9%)	191	(14.3%)	

^aComparison of number of new cases in first week of 14-day period with new cases in second week.



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

^cIncludes counties with an absolute change in count of two or fewer.

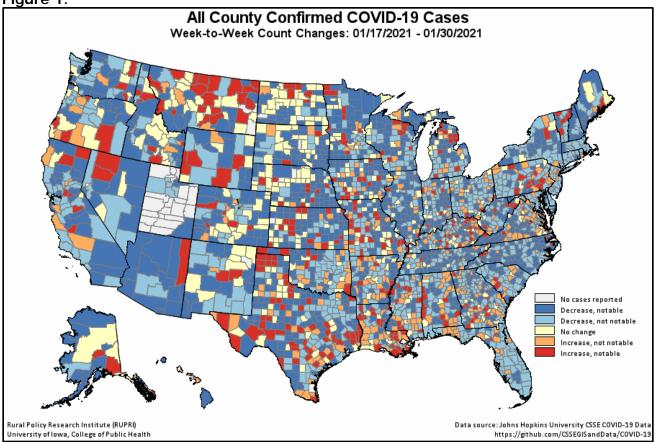
Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by

county geography: 1/17/2021 - 1/30/2021

	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,15)	9 of 1,166)	(n = 63)	36 of 641)	(n = 1,30)	7 of 1,335)
Any decrease	871	(75.2%)	464	(73.0%)	725	(55.5%)
Notable decrease ^b	338	(29.2%)	257	(40.4%)	522	(39.9%)
Same number, both weeks ^c	56	(4.8%)	39	(6.1%)	283	(21.7%)
Any increase	232	(20.0%)	133	(20.9%)	299	(22.9%)
Notable increase ^b	81	(7.0%)	57	(9.0%)	191	(14.6%)
Increase of 100% or more	9	(0.8%)	7	(1.1%)	79	(6.0%)

^aComparison of number of new cases in first week of 14-day period with new cases in second week.

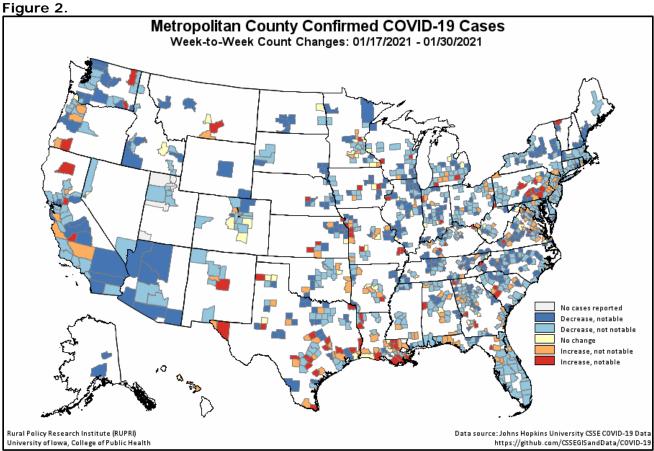
Figure 1.



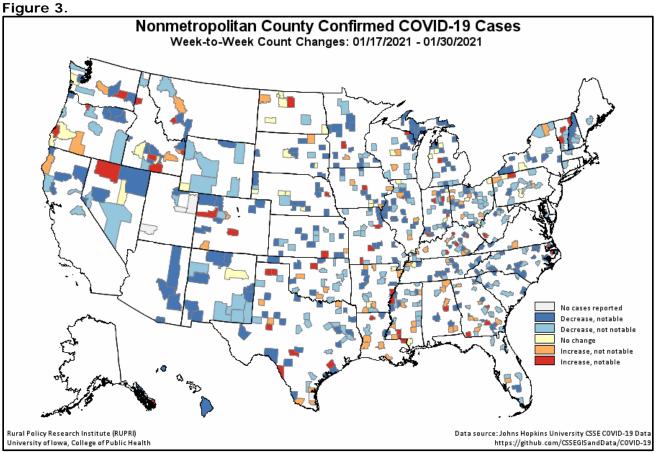
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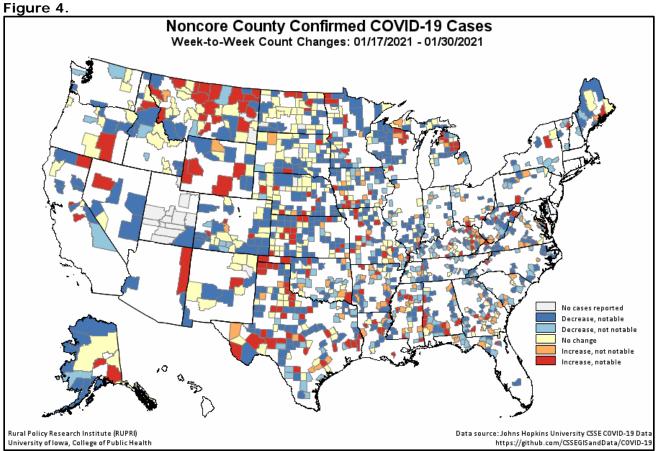












¹ COVID-19 case and death data for this ongoing report were previously obtained from <u>USAFacts.org.</u> Reports after 8/15/2020 use data from the <u>COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University</u>. While both sources employ similar approaches 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.

² 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/.