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" (<u>https://ruprihealth.org/publications/policybriefs/2020/County</u> <u>COVID Trajectories.pdf</u>). This data brief looks at the new case counts in every US county between February 14, 2021, and February 27, 2021, to quantitatively evaluate 14-day trends in metropolitan, nonmetropolitan, and noncore counties. Previous versions of this document can be found at: <u>https://ruprihealth.org/publications/policybriefs/2020/COVID Projects.html</u>

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: 2/14/2021 - 2/27/2021

	Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	9	(0.8%)	9	(1.4%)	62	(4.6%)
Decreasing, notable ^b	266	(22.8%)	173	(27.0%)	399	(29.9%)
Decreasing, not notable	351	(30.1%)	114	(17.8%)	79	(5.9%)
Same number, both weeks ^c	106	(9.1%)	99	(15.4%)	382	(28.6%)
Increasing, not notable	186	(16.0%)	79	(12.3%)	46	(3.4%)
Increasing, notable	248	(21.3%)	167	(26.1%)	367	(27.5%)

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



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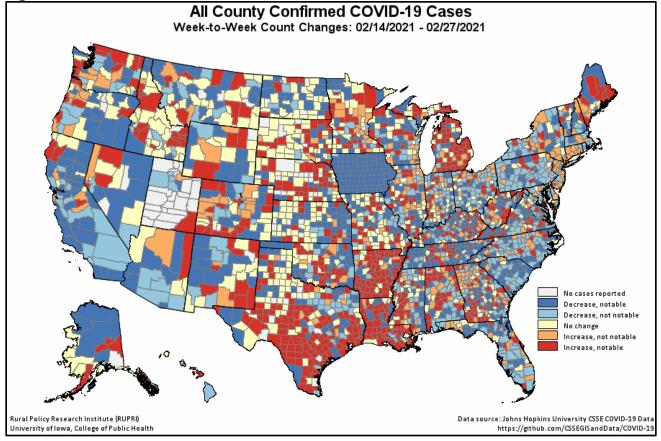
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Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 2/14/2021 – 2/27/2021

	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,157	' of 1,166)	(n = 63	2 of 641)	(n = 1,27	'3 of 1,335)
Any decrease	617	(53.3%)	287	(45.4%)	478	(37.5%)
Notable decrease ^b	266	(23.0%)	173	(27.4%)	399	(31.3%)
Same number, both weeks ^c	106	(9.2%)	99	(15.7%)	382	(30.0%)
Any increase	434	(37.5%)	246	(38.9%)	413	(32.4%)
Notable increase ^b	248	(21.4%)	167	(26.4%)	367	(28.8%)
Increase of 100% or more	65	(5.6%)	64	(10.1%)	209	(16.4%)

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

Figure 1.



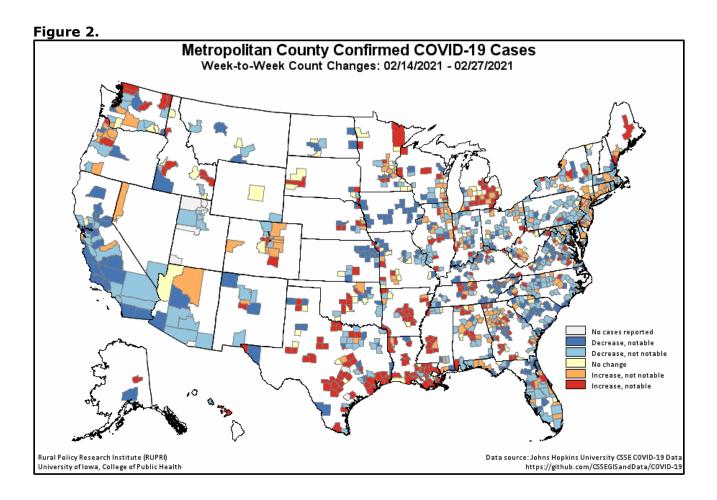


Figure 3.

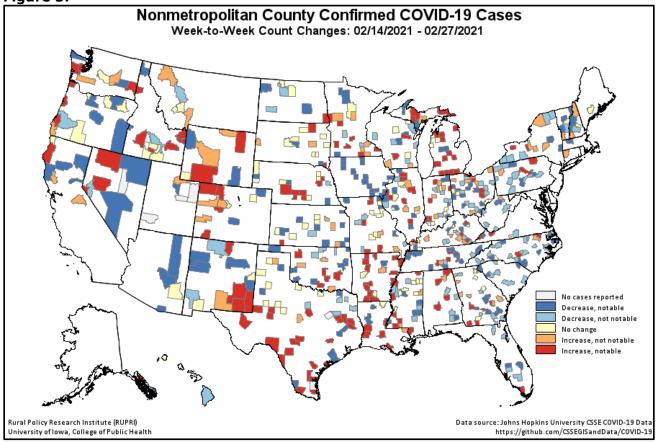
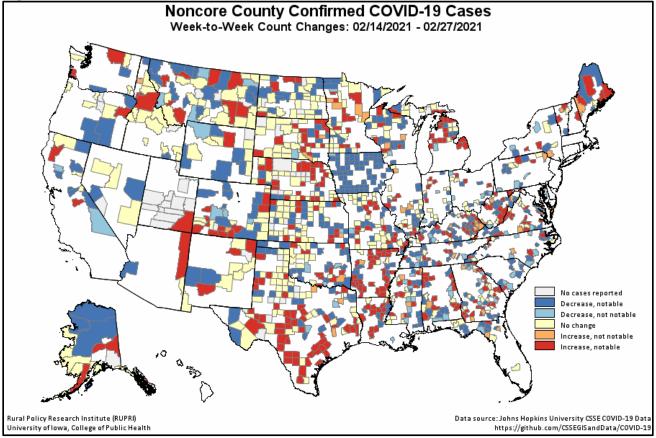


Figure 4.



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 <u>https://www.ers.usda.gov/data-products/urban-influence-codes/</u>.