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 April 4, 2021, and April 17, 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: 4/4/2021 – 4/17/2021

	Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	11	(0.9%)	10	(1.6%)	99	(7.4%)
Decreasing, notable ^b	191	(16.4%)	151	(23.6%)	313	(23.4%)
Decreasing, not notable	259	(22.2%)	78	(12.2%)	61	(4.6%)
Same number, both weeks ^c	135	(11.6%)	128	(20.0%)	462	(34.6%)
Increasing, not notable	283	(24.3%)	73	(11.4%)	39	(2.9%)
Increasing, notable	287	(24.6%)	201	(31.4%)	361	(27.0%)

^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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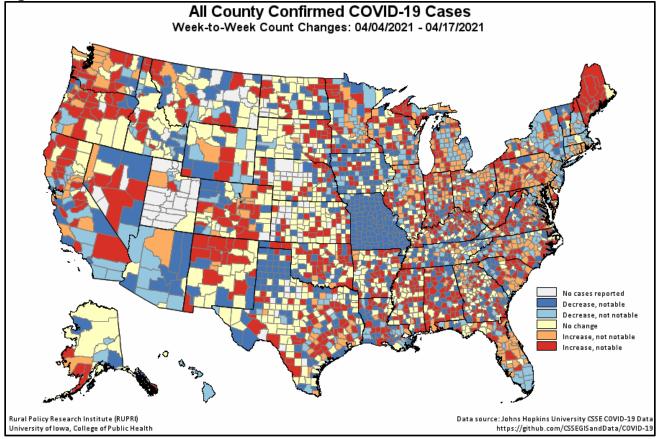


Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 4/4/2021 - 4/17/2021

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	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,155	5 of 1,166)	(n = 63	1 of 641)	(n = 1,23	86 of 1,335)
Any decrease	450	(39.0%)	229	(36.3%)	374	(30.3%)
Notable decrease ^b	191	(16.5%)	151	(23.9%)	313	(25.3%)
Same number, both weeks ^c	135	(11.7%)	128	(20.3%)	462	(37.4%)
Any increase	570	(49.4%)	274	(43.4%)	400	(32.4%)
Notable increase ^b	287	(24.8%)	201	(31.9%)	361	(29.2%)
Increase of 100% or more	61	(5.3%)	62	(9.8%)	196	(15.9%)

^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.



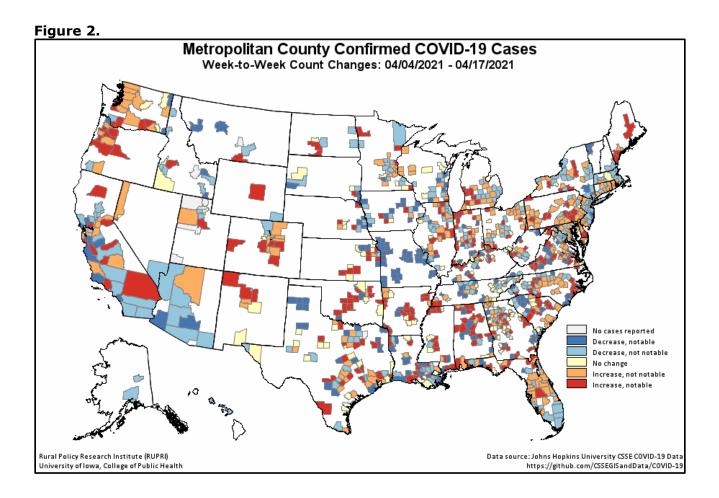


Figure 3.

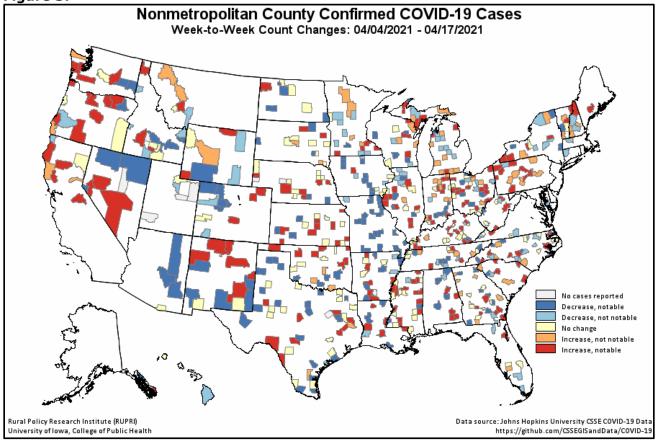
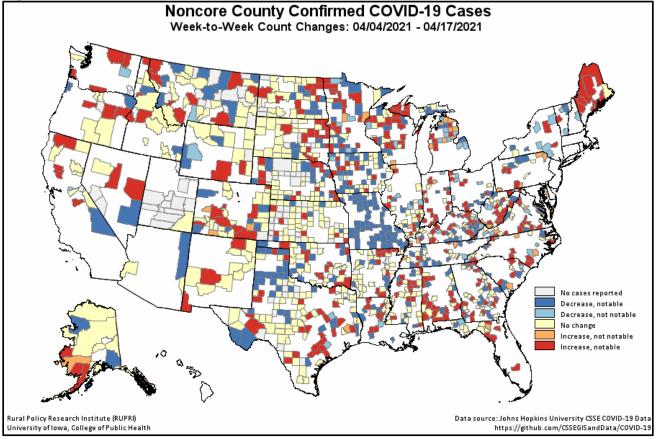


Figure 4.



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>.