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 May 2, 2021, and May 15, 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:5/2/2021 - 5/15/2021

	Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	2	(0.2%)	10	(1.6%)	100	(7.5%)
Decreasing, notable ^b	473	(40.6%)	254	(39.6%)	391	(29.3%)
Decreasing, not notable	308	(26.4%)	92	(14.4%)	60	(4.5%)
Same number, both weeks ^c	147	(12.6%)	129	(20.1%)	518	(38.8%)
Increasing, not notable	98	(8.4%)	32	(5.0%)	21	(1.6%)
Increasing, notable	138	(11.8%)	124	(19.3%)	245	(18.4%)

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

^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.



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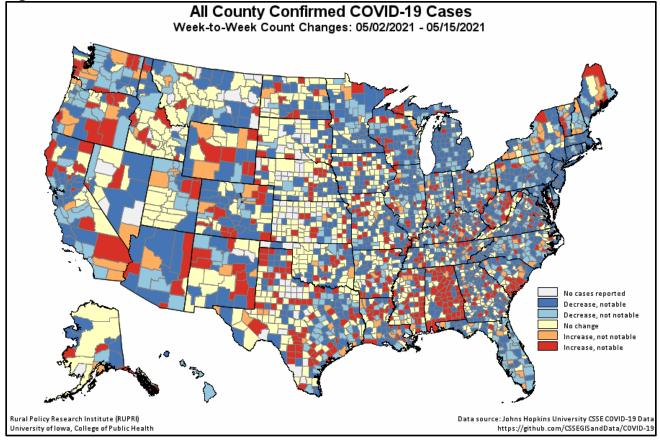
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Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 5/2/2021 – 5/15/2021

	Metropolitan		Nonmetropolitan		Noncore					
	(n = 1,164	of 1,166)	(n = 63	1 of 641)	(n = 1,23	35 of 1,335)				
Any decrease	781	(67.1%)	346	(54.8%)	451	(36.5%)				
Notable decrease ^b	473	(40.6%)	254	(40.3%)	391	(31.7%)				
Same number, both weeks ^c	147	(12.6%)	129	(20.4%)	518	(41.9%)				
Any increase	236	(20.3%)	156	(24.7%)	266	(21.5%)				
Notable increase ^b	138	(11.9%)	124	(19.7%)	245	(19.8%)				
Increase of 100% or more	57	(4.9%)	50	(7.9%)	158	(12.8%)				

^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.



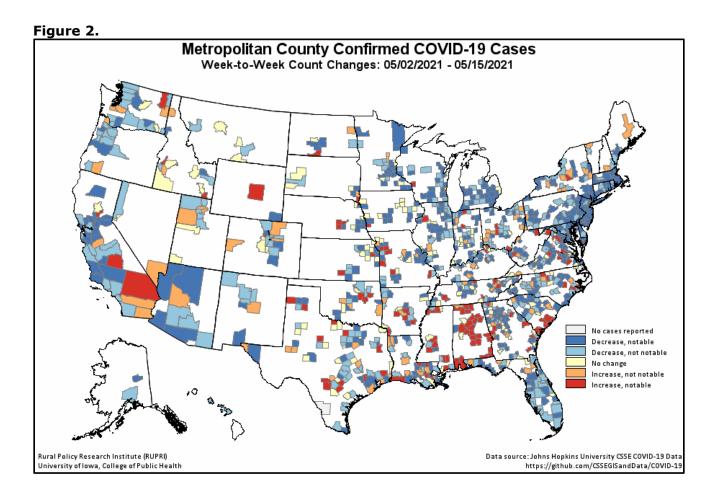
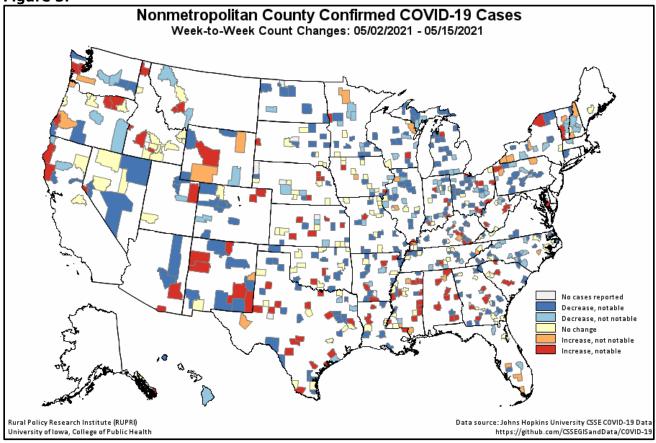
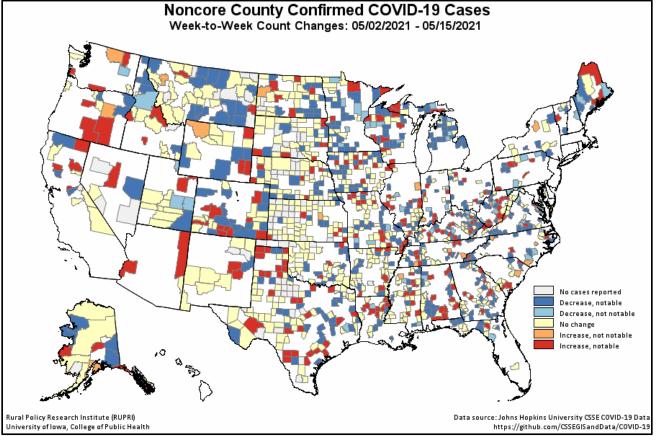


Figure 3.







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.

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.

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>.