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 August 8, 2021, and August 21, 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 trendsa in newly confirmed COVID-19 cases, by county geography:8/8/2021 - 8/21/2021

	Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	14	(1.2%)	20	(3.1%)	80	(6.0%)
Decreasing, notable ^b	48	(4.1%)	30	(4.7%)	153	(11.5%)
Decreasing, not notable	191	(16.4%)	81	(12.6%)	121	(9.1%)
Same number, both weeks ^c	64	(5.5%)	54	(8.4%)	263	(19.7%)
Increasing, not notable	404	(34.6%)	164	(25.6%)	164	(12.3%)
Increasing, notable	445	(38.2%)	292	(45.6%)	554	(41.5%)

^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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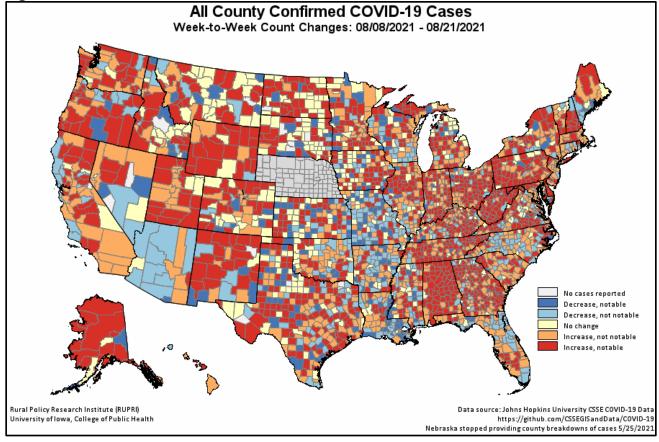
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Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 8/8/2021 – 8/21/2021

	0, 21, 202					
	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,15)	2 of 1,166)	(n = 62	1 of 641)	(n = 1,25	55 of 1,335)
Any decrease	239	(20.7%)	111	(17.9%)	274	(21.8%)
Notable decrease ^b	48	(4.2%)	30	(4.8%)	153	(12.2%)
Same number, both weeks ^c	64	(5.6%)	54	(8.7%)	263	(21.0%)
Any increase	849	(73.7%)	456	(73.4%)	718	(57.2%)
Notable increase ^b	445	(38.6%)	292	(47.0%)	554	(44.1%)
Increase of 100% or more	60	(5.2%)	64	(10.3%)	195	(15.5%)

^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.

Figure 1.



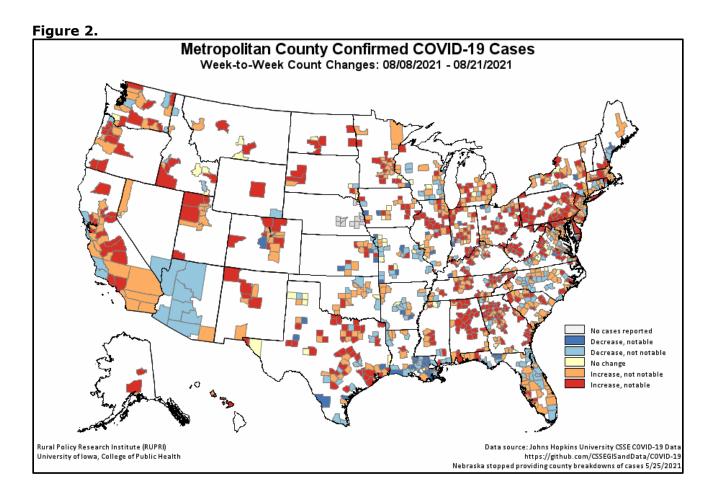


Figure 3.

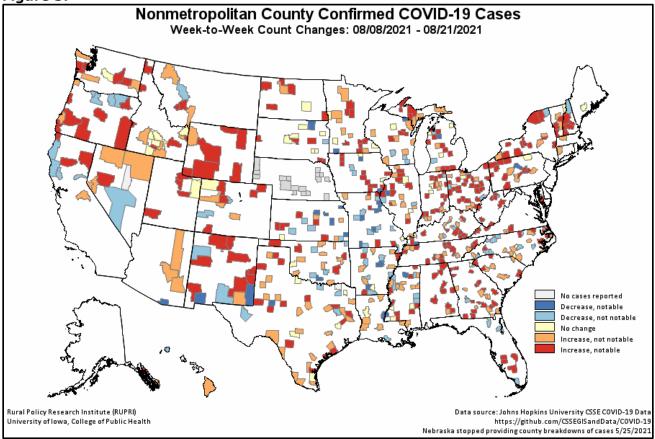
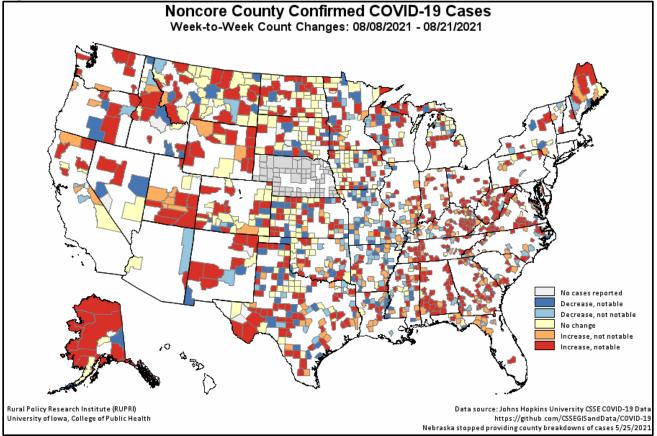


Figure 4.



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.

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.

Nebraska stopped reporting county-level case and mortality data on 5/25/2021. Therefore, total cases/deaths for metropolitan and nonmetropolitan counts are undercounts.

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>.