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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 September 5, 2021, and September 18, 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 geograph	ıy:
9/5/2021 - 9/18/2021	-

	Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	15	(1.3%)	19	(3.0%)	72	(5.4%)
Decreasing, notable ^b	160	(13.7%)	71	(11.1%)	225	(16.9%)
Decreasing, not notable	306	(26.2%)	160	(25.0%)	198	(14.8%)
Same number, both weeks ^c	53	(4.5%)	42	(6.6%)	203	(15.2%)
Increasing, not notable	385	(33.0%)	170	(26.5%)	205	(15.4%)
Increasing, notable	247	(21.2%)	179	(27.9%)	432	(32.4%)

^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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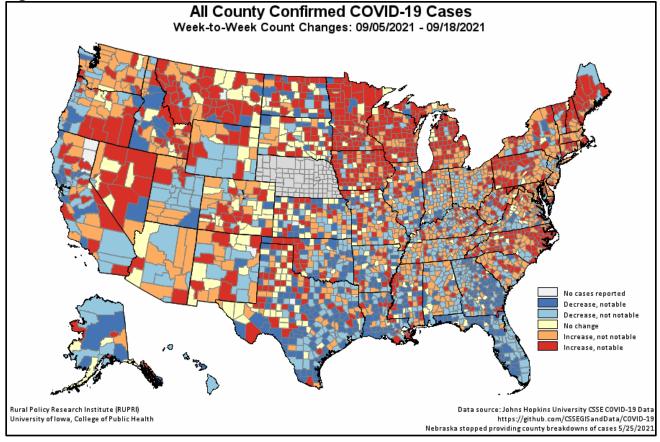
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Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 9/5/2021 – 9/18/2021

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	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,151	of 1,166)	(n = 62	2 of 641)	(n = 1,26	53 of 1,335)
Any decrease	466	(40.5%)	231	(37.1%)	423	(33.5%)
Notable decrease ^b	160	(13.9%)	71	(11.4%)	225	(17.8%)
Same number, both weeks ^c	53	(4.6%)	42	(6.8%)	203	(16.1%)
Any increase	632	(54.9%)	349	(56.1%)	637	(50.4%)
Notable increase ^b	247	(21.5%)	179	(28.8%)	432	(34.2%)
Increase of 100% or more	15	(1.3%)	16	(2.6%)	121	(9.6%)

^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.



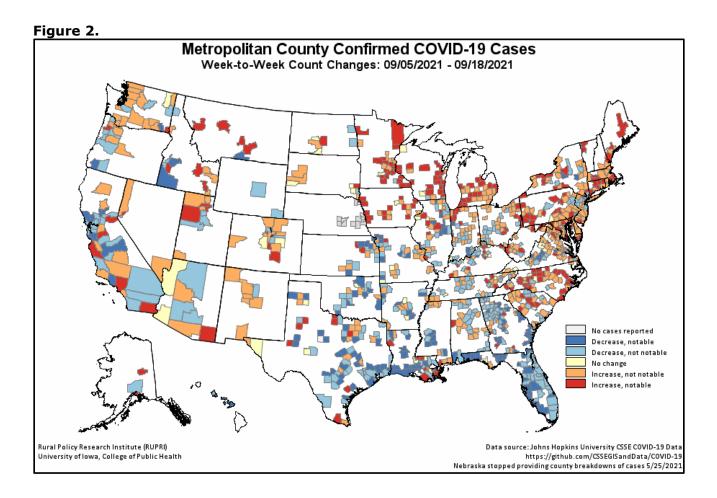
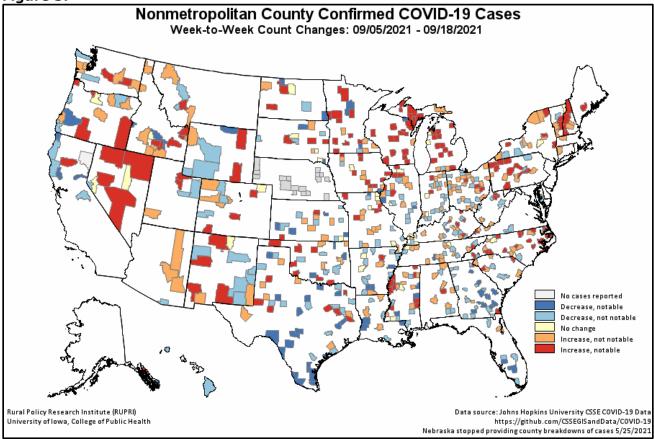
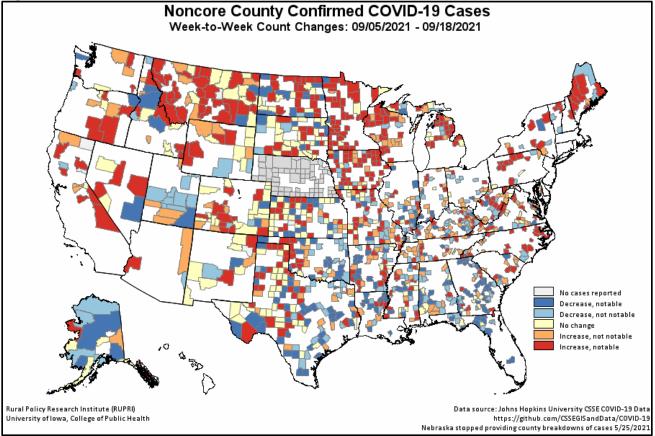


Figure 3.







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.

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>.