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 January 10, 2021, and January 23, 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	/ :
1/10/2021 – 1/23/2021	

		MetropolitanNonmetropolitan(n = 1,166)(n = 641)		Noncore (n = 1,335)		
No cases reported	8	(0.7%)	4	(0.6%)	32	(2.4%)
Decreasing, notable ^b	397	(34.0%)	275	(42.9%)	529	(39.6%)
Decreasing, not notable	537	(46.1%)	196	(30.6%)	232	(17.4%)
Same number, both weeks ^c	40	(3.4%)	35	(5.5%)	218	(16.3%)
Increasing, not notable	111	(9.5%)	68	(10.6%)	95	(7.1%)
Increasing, notable	73	(6.3%)	63	(9.8%)	229	(17.2%)

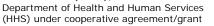
^aComparison of number of new cases in first week of 14-day period with new cases in second week.

^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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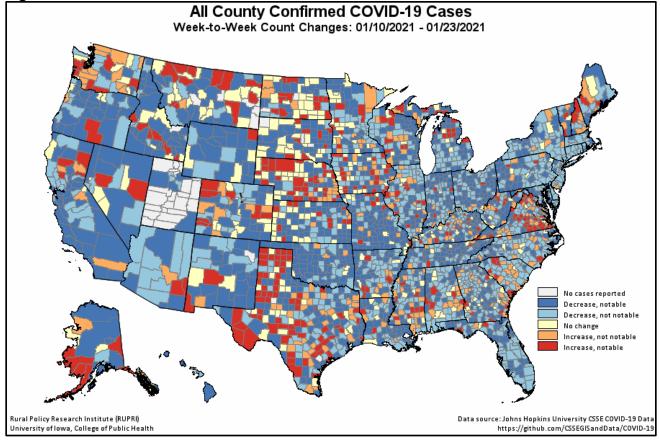
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Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 1/10/2021 – 1/23/2021

	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,158	3 of 1,166)	(n = 63	7 of 641)	(n = 1,3	03 of 1,335)
Any decrease	934	(80.7%)	471	(73.9%)	761	(58.4%)
Notable decrease ^b	397	(34.3%)	275	(43.2%)	529	(40.6%)
Same number, both weeks ^c	40	(3.5%)	35	(5.5%)	218	(16.7%)
Any increase	184	(15.9%)	131	(20.6%)	324	(24.9%)
Notable increase ^b	73	(6.3%)	63	(9.9%)	229	(17.6%)
Increase of 100% or more	17	(1.5%)	14	(2.2%)	88	(6.8%)

^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.

Figure 1.



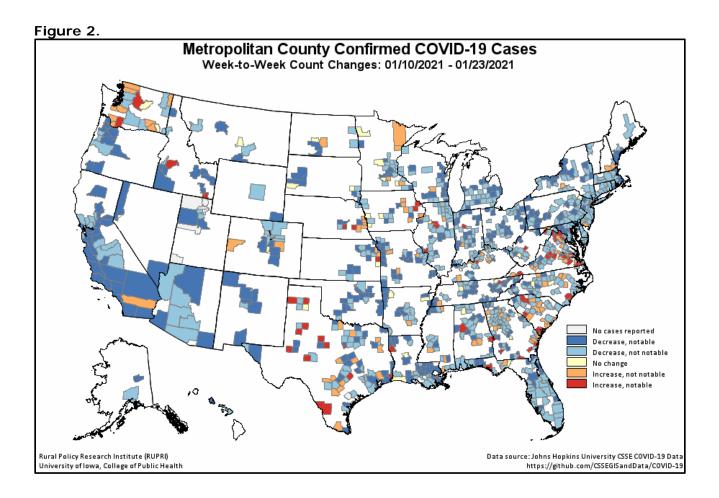
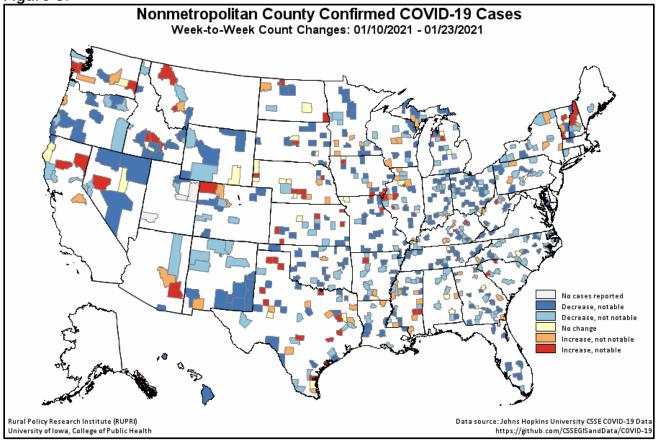
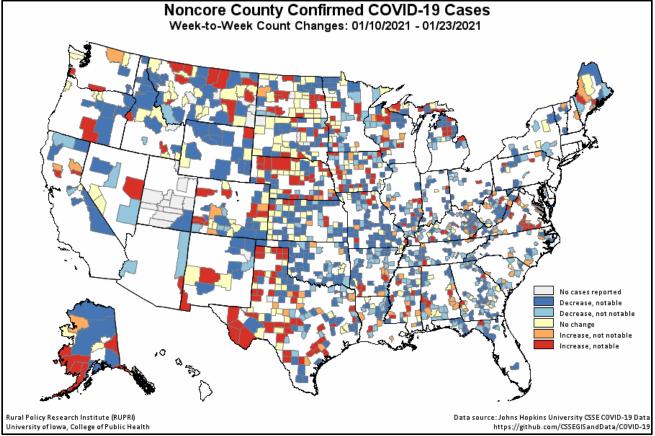


Figure 3.







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.

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>.