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" (https://ruprihealth.org/publications/policybriefs/2020/County-COVID Trajectories.pdf). This data brief looks at the new case counts in every US county between October 17, 2021, and October 30, 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 in newly confirmed COVID-19 cases, by county geography:

10/17/2021 - 10/30/2021

	Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	2	(0.2%)	4	(0.6%)	12	(0.9%)
Decreasing, notable ^b	238	(20.4%)	141	(22.0%)	427	(32.0%)
Decreasing, not notable	409	(35.1%)	180	(28.1%)	172	(12.9%)
Same number, both weeks ^c	113	(9.7%)	73	(11.4%)	304	(22.8%)
Increasing, not notable	235	(20.2%)	135	(21.1%)	108	(8.1%)
Increasing, notable	169	(14.5%)	108	(16.8%)	312	(23.4%)

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



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^{bw}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.

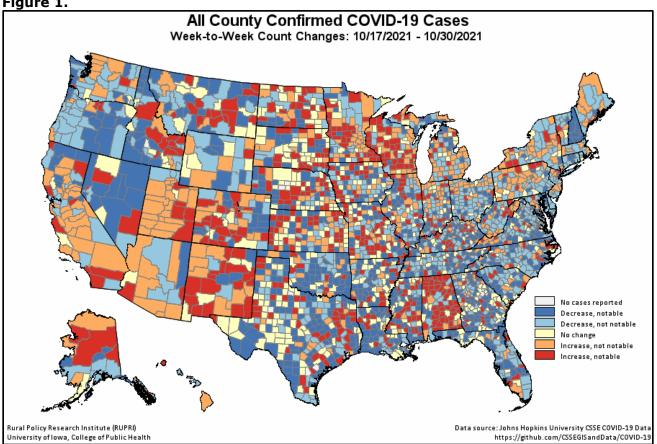
Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by

county geography: 10/17/2021 - 10/30/2021

	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,164)	of 1,166)	(n = 63)	7 of 641)	(n = 1,323	of 1,335)
Any decrease	647	(55.6%)	321	(50.4%)	599	(45.3%)
Notable decrease ^b	238	(20.4%)	141	(22.1%)	427	(32.3%)
Same number, both weeks ^c	113	(9.7%)	73	(11.5%)	304	(23.0%)
Any increase	404	(34.7%)	243	(38.1%)	420	(31.7%)
Notable increase ^b	169	(14.5%)	108	(17.0%)	312	(23.6%)
Increase of 100% or more	36	(3.1%)	26	(4.1%)	136	(10.3%)

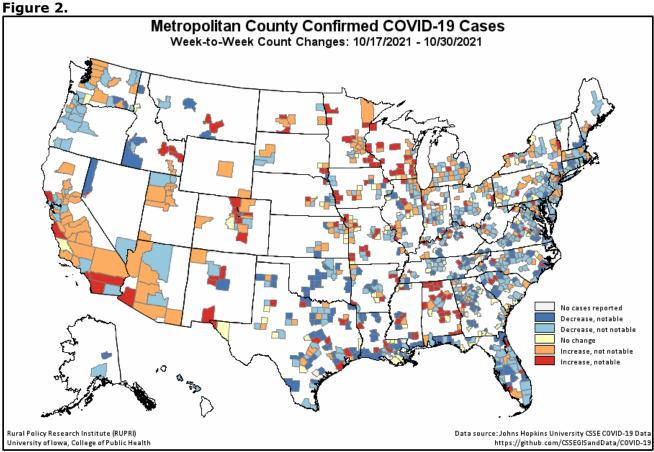
^aComparison of number of new cases in first week of 14-day period with new cases in second week.

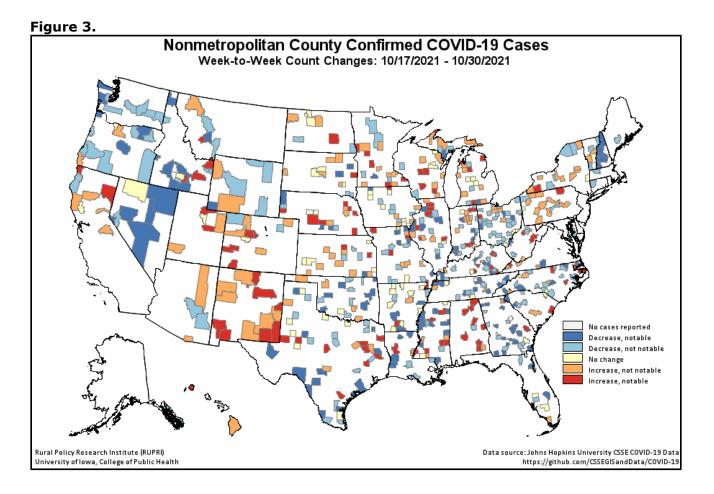
Figure 1.

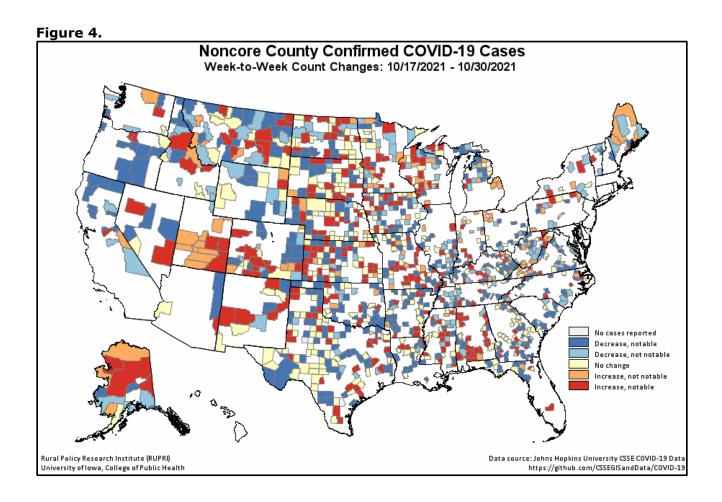


b"Notable" trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent.

^cIncludes counties with an absolute change in count of two or fewer.







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.

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 https://www.ers.usda.gov/data-products/urban-influence-codes/.