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 December 19, 2022 and January 1, 2023 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: $12/19/2022 - 1/1/2023^d$

	Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	104	(8.9%)	55	(8.6%)	130	(9.7%)
Decreasing, notable ^b	448	(38.4%)	243	(37.9%)	468	(35.1%)
Decreasing, not notable	269	(23.1%)	97	(15.1%)	70	(5.2%)
Same number, both weeks ^c	77	(6.6%)	89	(13.9%)	385	(28.8%)
Increasing, not notable	126	(10.8%)	48	(7.5%)	36	(2.7%)
Increasing, notable	142	(12.2%)	109	(17.0%)	246	(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.

^d Case reporting has become less reliable as surveillance has gotten less comprehensive and states have reduced the frequency of their reports. Counts are therefore under reported.



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Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by county geography: $12/19/2022 - 1/1/2023^d$

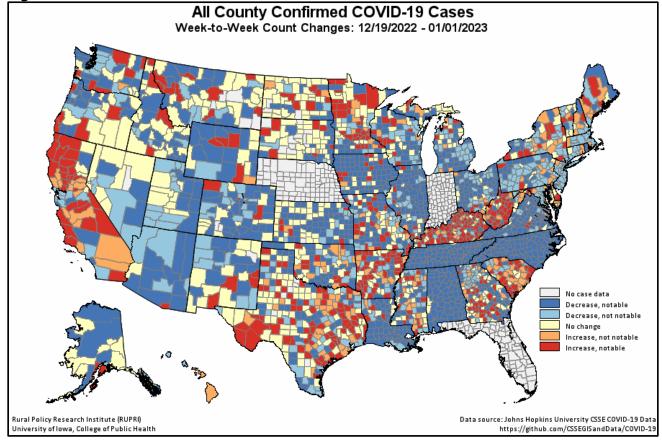
	Metropolitan (n=1,062 of 1,166)		Nonmetropolitan (n=586 of 641)		Noncore (n=1,2405of 1,335)	
Any decrease	717	(67.5%)	340	(58.0%)	538	(44.6%)
Notable decrease ^b	448	(42.2%)	243	(41.5%)	468	(38.8%)
Same number, both weeks ^c	77	(7.3%)	89	(15.2%)	385	(32.0%)
Any increase	268	(25.2%)	157	(26.8%)	282	(23.4%)
Notable increase ^b	142	(13.4%)	109	(18.6%)	246	(20.4%)
Increase of 100% or more	29	(2.7%)	27	(4.6%)	126	(10.5%)

^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.

^dCase reporting has become less reliable as surveillance has gotten less comprehensive and states have reduced the frequency of their reports. Counts are therefore under reported.

Figure 1.



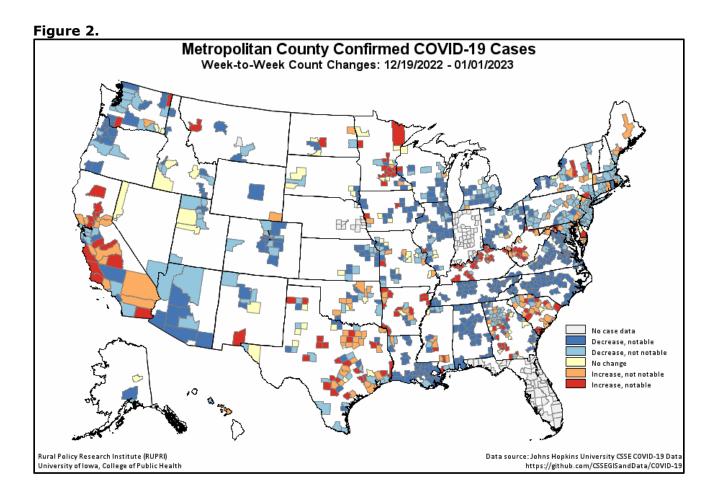
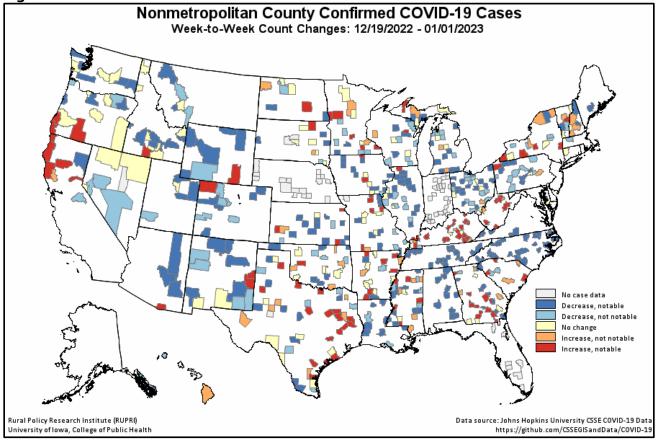
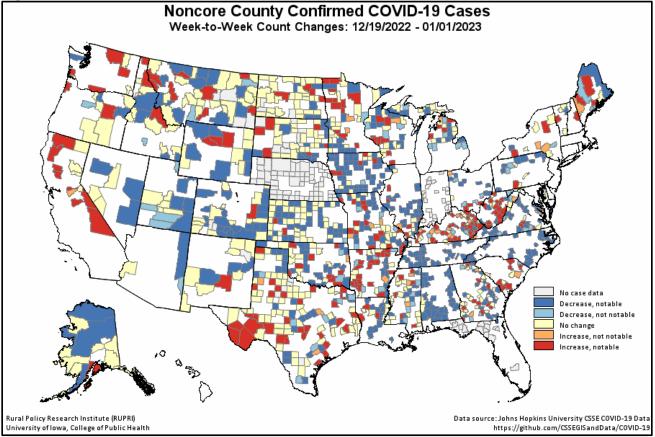


Figure 3.







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>.