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 February 16, 2023 and March 1, 2023 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:

2/16/2023 - 3/1/2023^d

		Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	9	(0.8%)	9	(1.4%)	64	(4.8%)	
Decreasing, notable ^b	412	(35.3%)	186	(29.0%)	342	(25.6%)	
Decreasing, not notable	231	(19.8%)	75	(11.7%)	45	(3.4%)	
Same number, both weeks ^c	128	(11.0%)	107	(16.7%)	463	(34.7%)	
Increasing, not notable	113	(9.7%)	50	(7.8%)	19	(1.4%)	
Increasing, notable	273	(23.4%)	214	(33.4%)	402	(30.1%)	

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



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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.

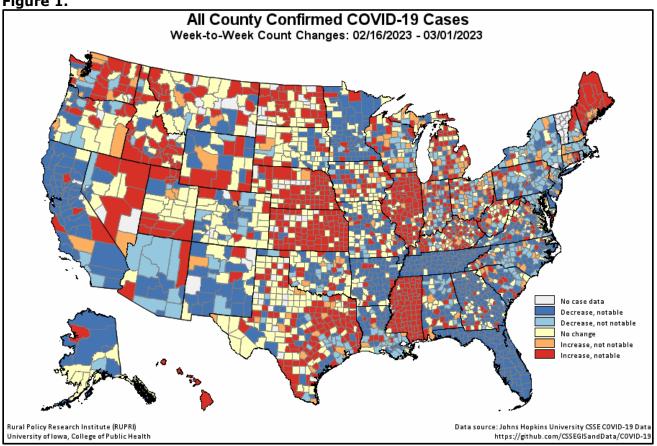
Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by

county geography: 2/16/2023 - 3/1/2023d

	Metropolitan		Nonmetropolitan		Noncore	
	(n=1,157	of 1,166)	(n=632	2 of 641)	(n=1,271	of 1,335)
Any decrease	643	(55.6%)	261	(41.3%)	387	(30.4%)
Notable decrease ^b	412	(35.6%)	186	(29.4%)	342	(26.9%)
Same number, both weeks ^c	128	(11.1%)	107	(16.9%)	463	(36.4%)
Any increase	386	(33.4%)	264	(41.8%)	421	(33.1%)
Notable increase ^b	273	(23.6%)	214	(33.9%)	402	(31.6%)
Increase of 100% or more	95	(8.2%)	81	(12.8%)	215	(16.9%)

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

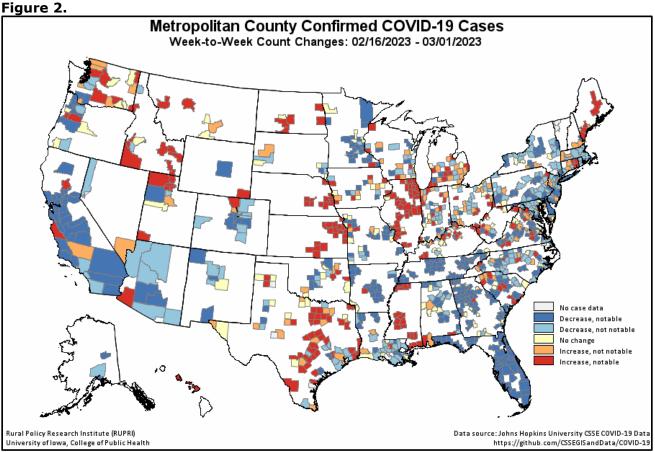
Figure 1.



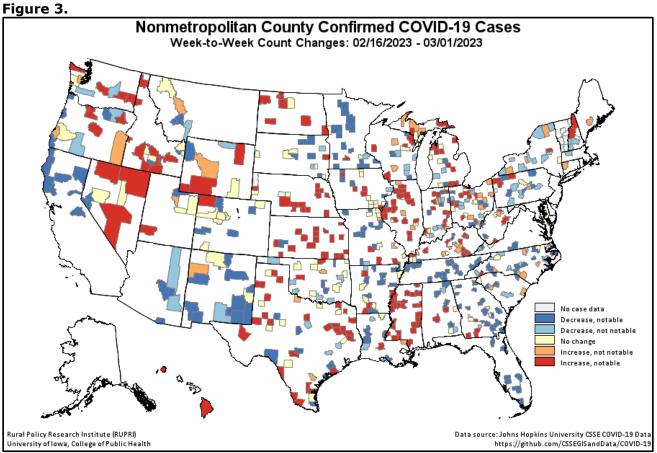
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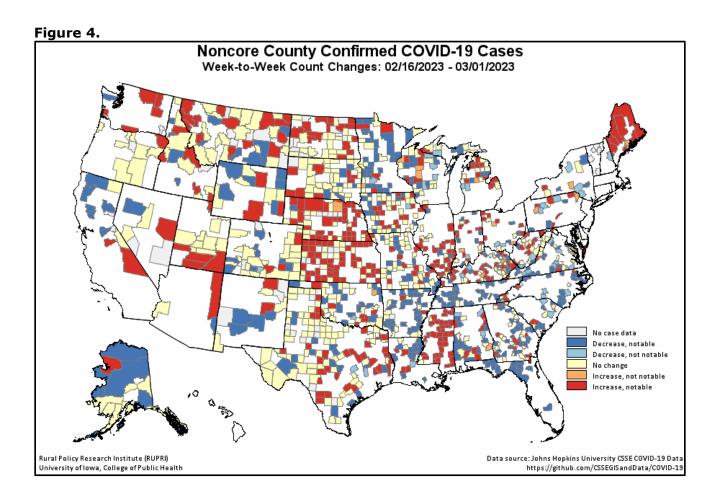
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Additional changes were made to the report starting 4/26/2021 to better account for the Utah practice of providing aggregated incidence and mortality data for less populous counties.

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/.