# RUPRI Center for Rural Health Policy Analysis *Rural Data Update*

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http://www.public-health.uiowa.edu/rupri/

## **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 February 1, 2023 and February 14, 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 Repository<sup>1</sup>. 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 Codes<sup>2</sup>.

## Table 1. 14-day trendsa in newly confirmed COVID-19 cases, by county geography:2/1/2023 - 2/14/2023d

	Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	15	(1.3%)	21	(3.3%)	113	(8.5%)
Decreasing, notable <sup>b</sup>	307	(26.3%)	158	(24.6%)	332	(24.9%)
Decreasing, not notable	268	(23.0%)	92	(14.4%)	54	(4.0%)
Same number, both weeks <sup>c</sup>	162	(13.9%)	141	(22.0%)	483	(36.2%)
Increasing, not notable	177	(15.2%)	63	(9.8%)	41	(3.1%)
Increasing, notable	237	(20.3%)	166	(25.9%)	312	(23.4%)

<sup>a</sup>Comparison of number of new cases in first week of 14-day period with new cases in second week. <sup>b</sup>"Notable" trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent.

<sup>c</sup>Includes counties with an absolute change in count of two or fewer.

<sup>d</sup> 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<sup>a</sup> in newly confirmed COVID-19 cases, in counties with any cases, by county geography:  $2/1/2023 - 2/14/2023^d$ 

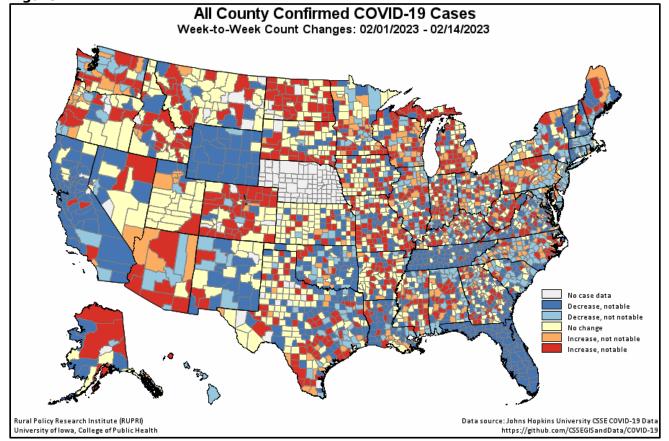
	Metropolitan		Nonmetropolitan		Noncore						
	(n=1,151	of 1,166)	(n=62	0 of 641)	(n=1,22	2 of 1,335)					
Any decrease	575	(50.0%)	250	(40.3%)	386	(31.6%)					
Notable decrease <sup>b</sup>	307	(26.7%)	158	(25.5%)	332	(27.2%)					
Same number, both weeks <sup>c</sup>	162	(14.1%)	141	(22.7%)	483	(39.5%)					
Any increase	414	(36.0%)	229	(36.9%)	353	(28.9%)					
Notable increase <sup>b</sup>	237	(20.6%)	166	(26.8%)	312	(25.5%)					
Increase of 100% or more	51	(4.4%)	48	(7.7%)	212	(17.3%)					

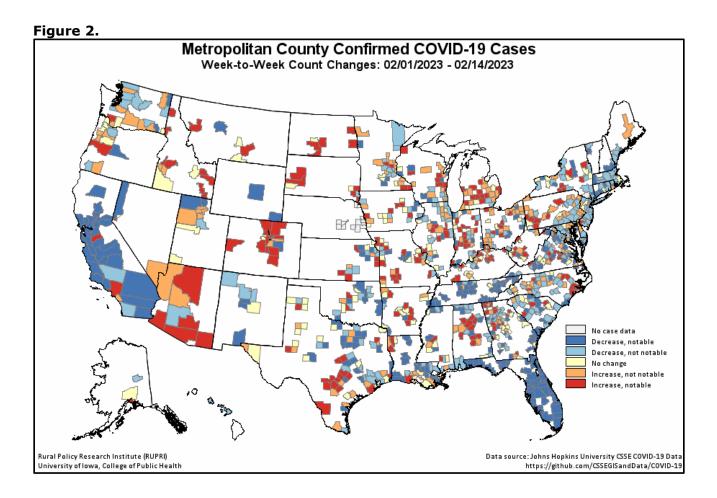
<sup>a</sup>Comparison of number of new cases in first week of 14-day period with new cases in second week.

<sup>b</sup>"Notable" trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent. <sup>c</sup>Includes counties with an absolute change in count of two or fewer.

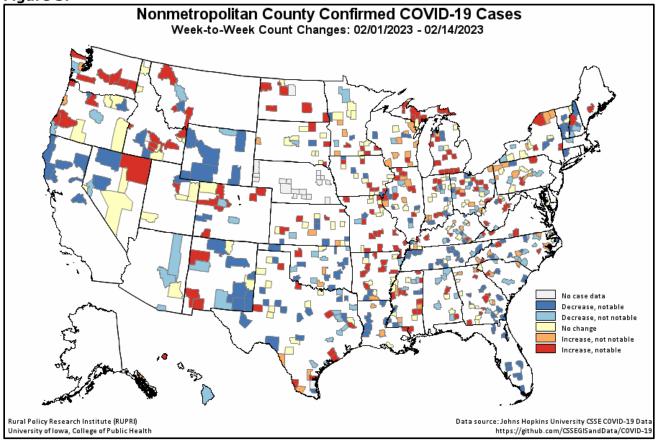
<sup>d</sup>Case reporting has become less reliable as surveillance has gotten less comprehensive and states have reduced the frequency of their reports. Counts are therefore under reported.

#### Figure 1.

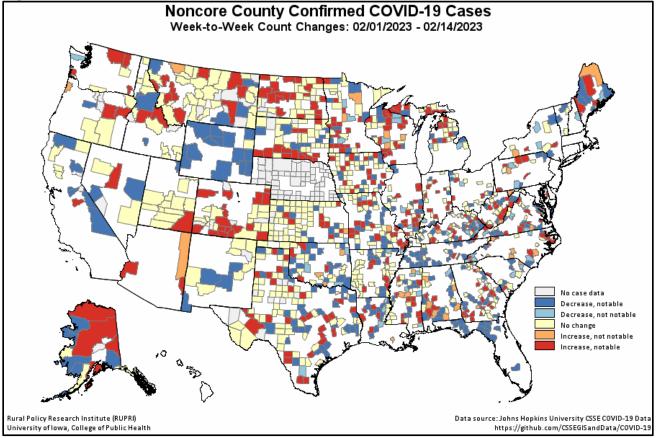




### Figure 3.



### Figure 4.



<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> 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>.