RUPRI Center for Rural Health Policy Analysis Rural Data Update

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County-Level 14-Day COVID-19 Case Trajectories

Fred Ullrich, BA; and Keith Mueller, PhD

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 September 19, 2021, and October 2, 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:

9/19/2021 - 10/2/2021

		Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	1	(0.1%)	2	(0.3%)	7	(0.5%)	
Decreasing, notable ^b	335	(28.7%)	189	(29.5%)	511	(38.3%)	
Decreasing, not notable	460	(39.5%)	215	(33.5%)	237	(17.8%)	
Same number, both weeks ^c	53	(4.5%)	39	(6.1%)	203	(15.2%)	
Increasing, not notable	205	(17.6%)	107	(16.7%)	119	(8.9%)	
Increasing, notable	112	(9.6%)	89	(13.9%)	258	(19.3%)	

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



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RUPRI Center for Rural Health Policy Analysis, University of Iowa College of Public Health, Department of Health Management and Policy, 145

Riverside Dr., Iowa City, IA 52242-2007, (319) 384-3830 http://www.public-health.uiowa.edu/rupri

E-mail: cph-rupri-inquiries@uiowa.edu

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.

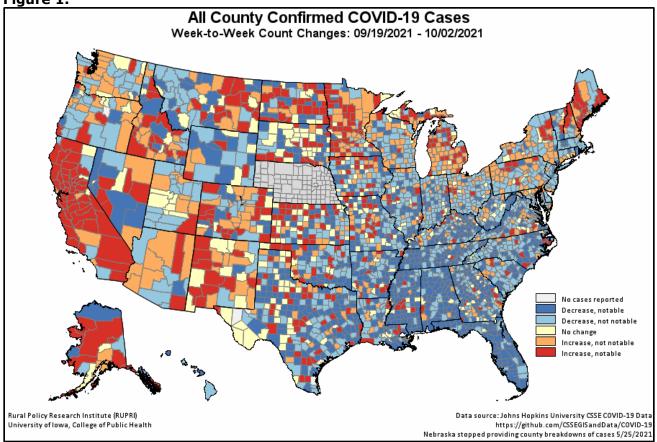
Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by

county geography: 9/19/2021 - 10/2/2021

	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,16	5 of 1,166)	(n = 63)	9 of 641)	(n = 1,3)	28 of 1,335)
Any decrease	795	(68.2%)	404	(63.2%)	748	(56.3%)
Notable decrease ^b	335	(28.8%)	189	(29.6%)	511	(38.5%)
Same number, both weeks ^c	53	(4.5%)	39	(6.1%)	203	(15.3%)
Any increase	317	(27.2%)	196	(30.7%)	377	(28.4%)
Notable increase ^b	112	(9.6%)	89	(13.9%)	258	(19.4%)
Increase of 100% or more	13	(1.1%)	14	(2.2%)	79	(5.9%)

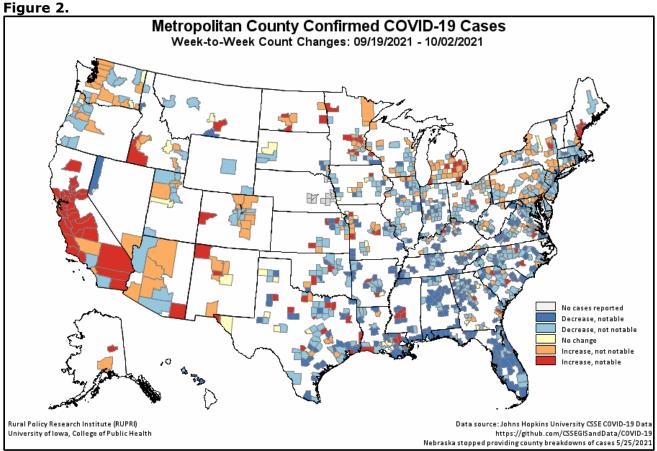
^aComparison of number of new cases in first week of 14-day period with new cases in second week.

Figure 1.

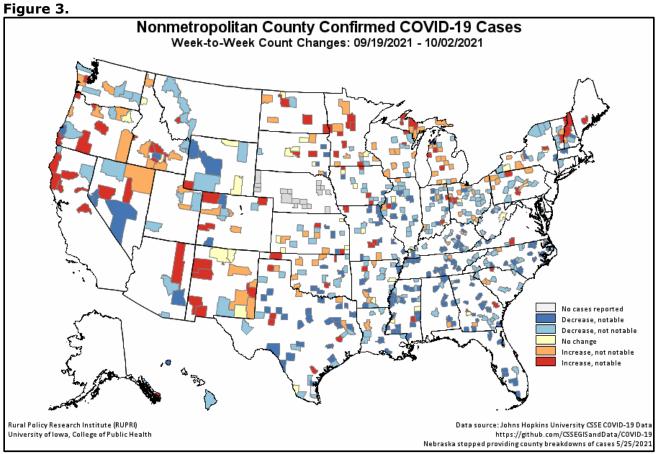


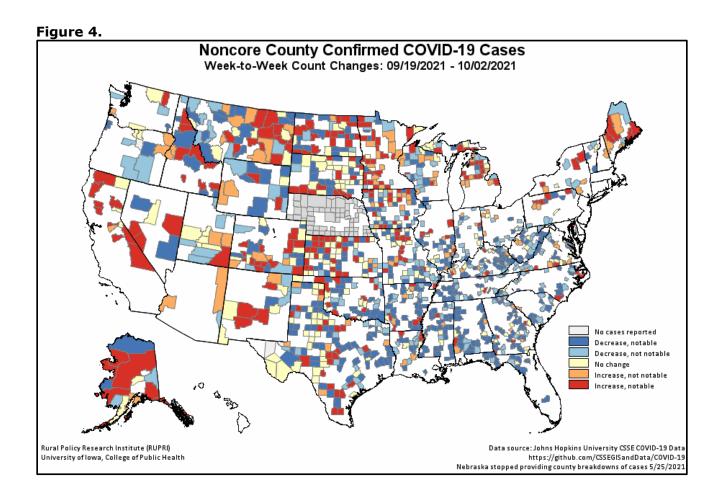
b"Notable" trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent.

^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.

Nebraska stopped reporting county-level case and mortality data on 5/25/2021. Therefore, total cases/deaths for metropolitan and nonmetropolitan counts are undercounts.

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/.