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 July 11, 2021, and July 24, 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: 7/11/2021 - 7/24/2021

	Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	20	(1.7%)	26	(4.1%)	178	(13.3%)
Decreasing, notable ^b	48	(4.1%)	49	(7.6%)	103	(7.7%)
Decreasing, not notable	38	(3.3%)	14	(2.2%)	19	(1.4%)
Same number, both weeks ^c	114	(9.8%)	109	(17.0%)	392	(29.4%)
Increasing, not notable	86	(7.4%)	38	(5.9%)	33	(2.5%)
Increasing, notable	860	(73.8%)	405	(63.2%)	610	(45.7%)

^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.

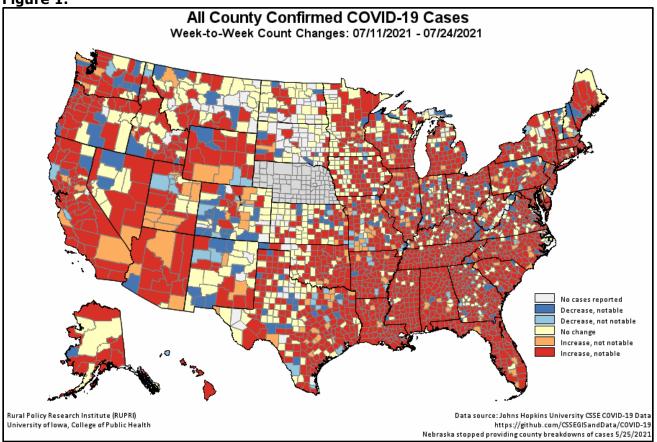
Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by

county geography: 7/11/2021 - 7/24/2021

	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,14)	l6 of 1,166)	(n = 61	L5 of 641)	(n = 1,15	7 of 1,335)
Any decrease	86	(7.5%)	63	(10.2%)	122	(10.5%)
Notable decrease ^b	48	(4.2%)	49	(8.0%)	103	(8.9%)
Same number, both weeks ^c	114	(9.9%)	109	(17.7%)	392	(33.9%)
Any increase	946	(82.5%)	443	(72.0%)	643	(55.6%)
Notable increase ^b	860	(75.0%)	405	(65.9%)	610	(52.7%)
Increase of 100% or more	369	(32.2%)	238	(38.7%)	400	(34.6%)

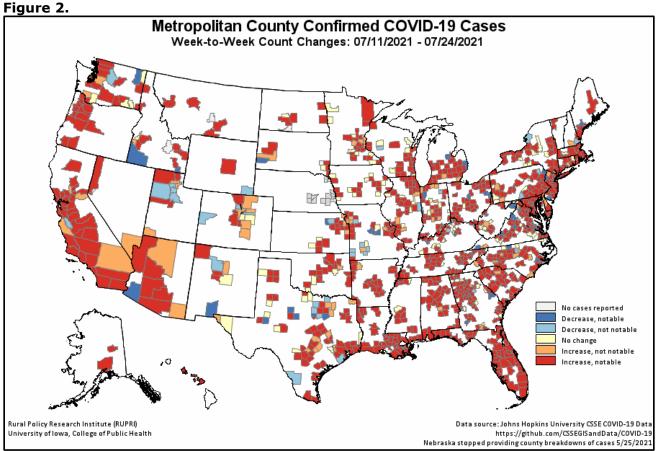
^aComparison of number of new cases in first week of 14-day period with new cases in second week.

Figure 1.

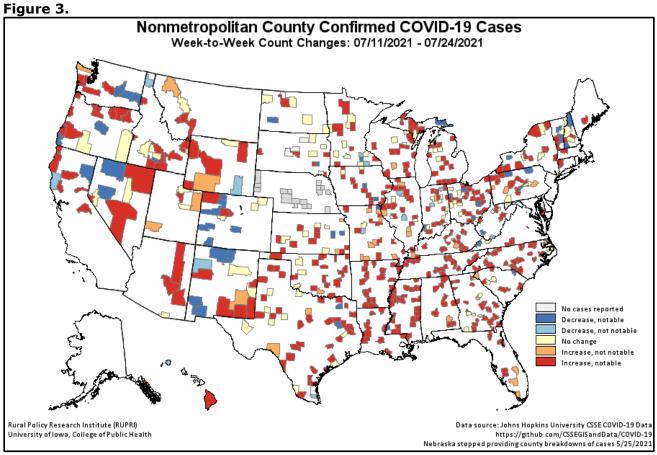


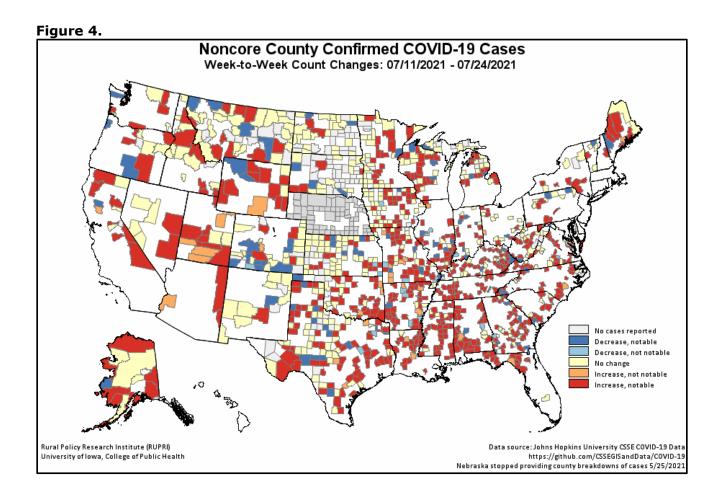
b"Notable" trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent.

^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/.