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 4, 2021, and July 17, 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:

7/4/2021 - 7/17/2021

	Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	25	(2.1%)	30	(4.7%)	211	(15.8%)
Decreasing, notable ^b	86	(7.4%)	68	(10.6%)	166	(12.4%)
Decreasing, not notable	32	(2.7%)	19	(3.0%)	12	(0.9%)
Same number, both weeks ^c	163	(14.0%)	168	(26.2%)	497	(37.2%)
Increasing, not notable	95	(8.1%)	30	(4.7%)	24	(1.8%)
Increasing, notable	765	(65.6%)	326	(50.9%)	425	(31.8%)

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



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#1U1GRH07633 and #U1C RH20419. The information, conclusions and opinions expressed in this policy brief are those of the authors and no endorsement by FORHP, HRSA, HHS is intended or should be inferred.



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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.

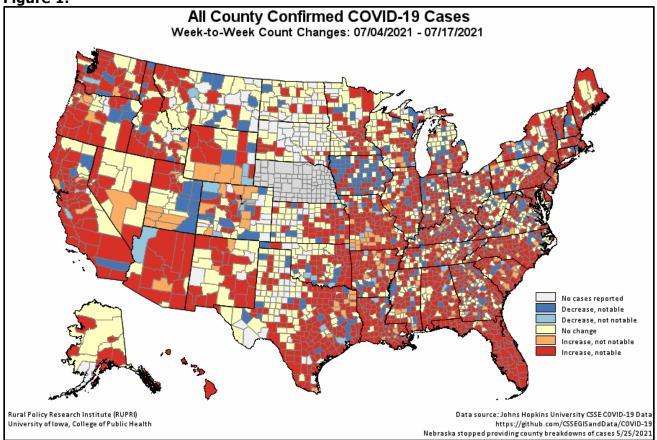
Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by

county geography: 7/4/2021 - 7/17/2021

	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,141	of 1,166)	(n = 61	1 of 641)	(n = 1,1	24 of 1,335)
Any decrease	118	(10.3%)	87	(14.2%)	178	(15.8%)
Notable decrease ^b	86	(7.5%)	68	(11.1%)	166	(14.8%)
Same number, both weeks ^c	163	(14.3%)	168	(27.5%)	497	(44.2%)
Any increase	860	(75.4%)	356	(58.3%)	449	(39.9%)
Notable increase ^b	765	(67.0%)	326	(53.4%)	425	(37.8%)
Increase of 100% or more	342	(30.0%)	176	(28.8%)	279	(24.8%)

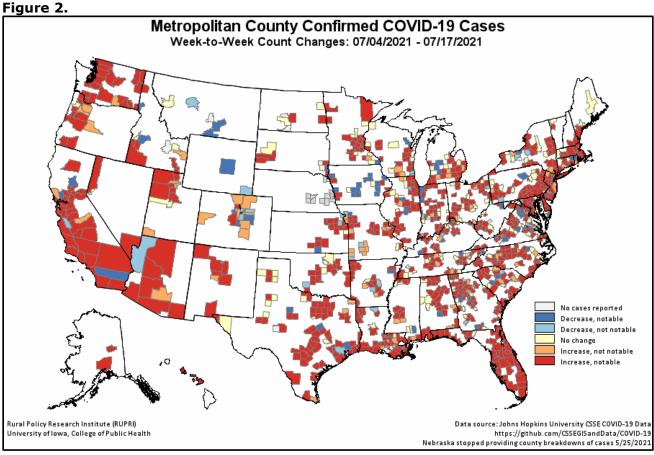
^aComparison of number of new cases in first week of 14-day period with new cases in second week.

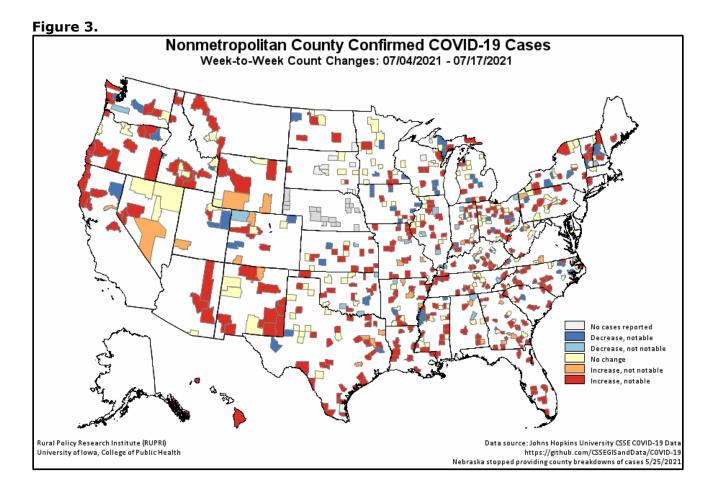
Figure 1.

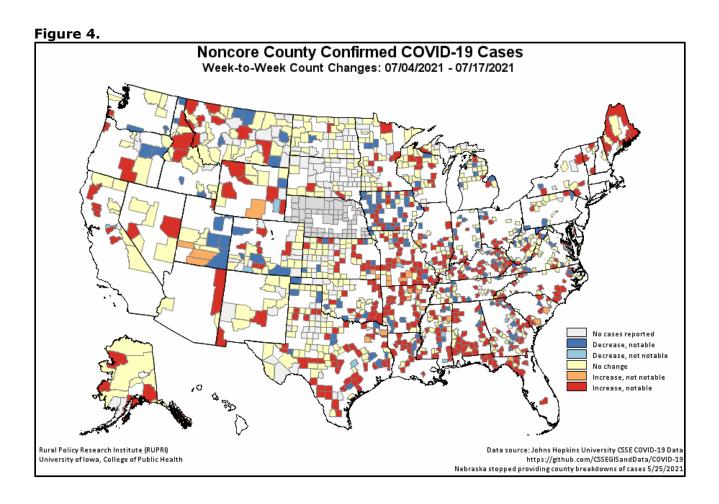


b"Notable" trends indicate weekly changes in new cases exceeding (either increasing or decreasing) 25 percent.

^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/.