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 September 20, 2020, and October 3, 2020, 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 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 ^a in newly confirmed COVID-19 cases, by county geography:
9/20/2020 – 10/3/2020

	Metropolitan (n = 1,166)		Nonmetropolitan (n = 641)		Noncore (n = 1,335)	
No cases reported	9	(0.8%)	10	(1.6%)	66	(4.9%)
Decreasing, notable ^b	216	(18.5%)	148	(23.1%)	319	(23.9%)
Decreasing, not notable	245	(21.0%)	84	(13.1%)	71	(5.3%)
Same number, both weeks ^c	142	(12.2%)	108	(16.8%)	392	(29.4%)
Increasing, not notable	213	(18.3%)	84	(13.1%)	57	(4.3%)
Increasing, notable	341	(29.2%)	207	(32.3%)	430	(32.2%)

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

^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.



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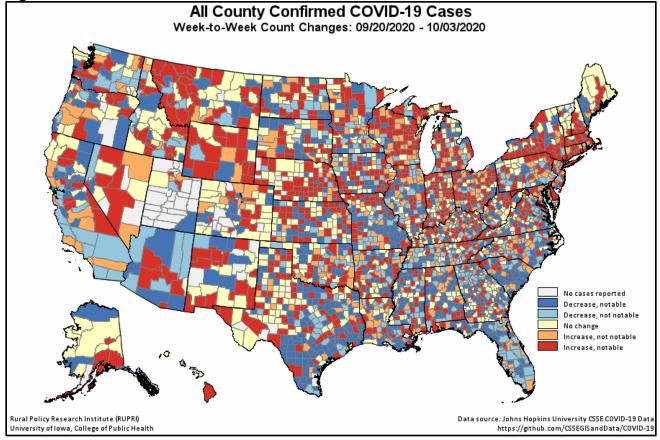
Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 9/20/2020 – 10/3/2020

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	Metropolitan		Nonmetropolitan		Noncore	
	(n = 1,157	of 1,166)	(n = 63 ⁻	1 of 641)	(n = 1,269	of 1,335)
Any decrease	461	(39.8%)	232	(36.8%)	390	(30.7%)
Notable decrease ^b	216	(18.7%)	148	(23.5%)	319	(25.1%)
Same number, both weeks ^c	142	(12.3%)	108	(17.1%)	392	(30.9%)
Any increase	554	(47.9%)	291	(46.1%)	487	(38.4%)
Notable increase ^b	341	(29.5%)	207	(32.8%)	430	(33.9%)
Increase of 100% or more	89	(7.7%)	79	(12.5%)	240	(18.9%)

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

^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.

Figure 1.



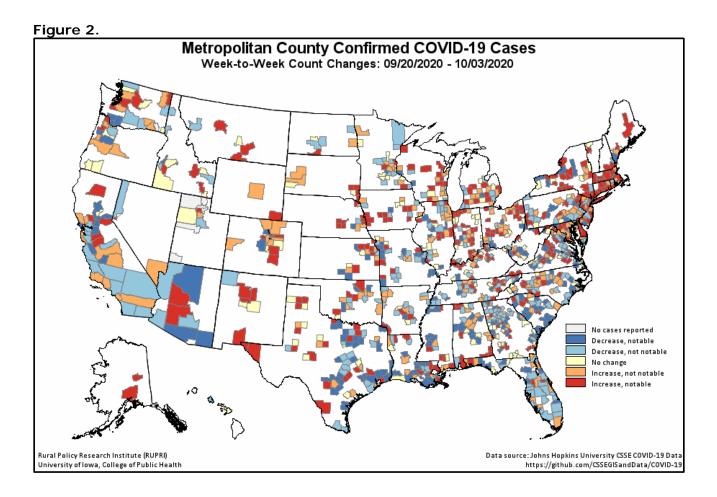
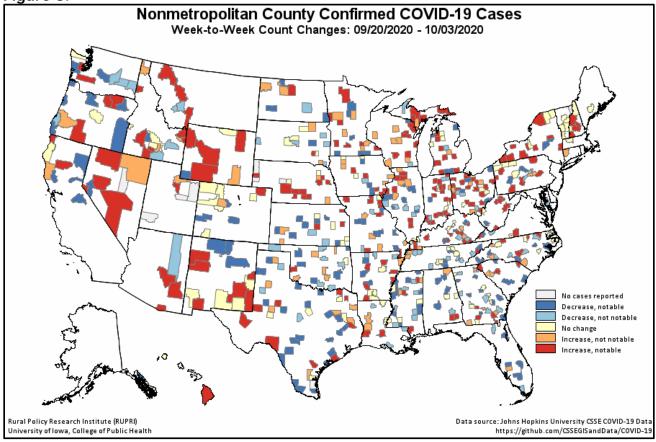
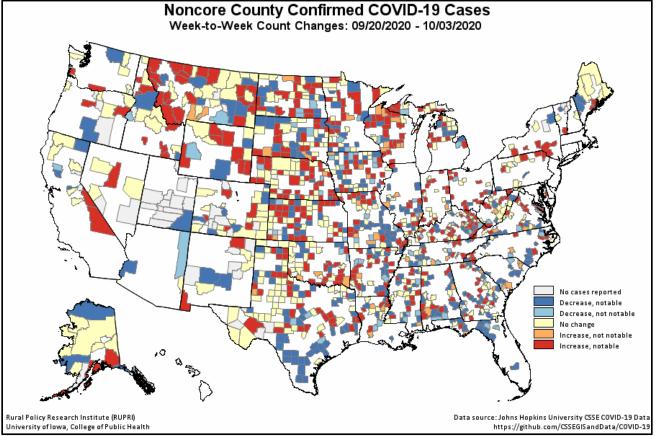


Figure 3.







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/.