

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” (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 6, 2020, and September 19, 2020, 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^a in newly confirmed COVID-19 cases, by county geography: 9/6/2020 – 9/19/2020

	Metropolitan (n = 1,166)	Nonmetropolitan (n = 641)	Noncore (n = 1,335)
No cases reported	15 (1.3%)	7 (1.1%)	99 (7.4%)
Decreasing, notable ^b	165 (14.2%)	91 (14.2%)	206 (15.4%)
Decreasing, not notable	182 (15.6%)	64 (10.0%)	42 (3.1%)
Same number, both weeks ^c	143 (12.3%)	132 (20.6%)	422 (31.6%)
Increasing, not notable	202 (17.3%)	66 (10.3%)	46 (3.4%)
Increasing, notable	459 (39.4%)	281 (43.8%)	520 (39.0%)

^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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opinions expressed in this policy brief are those of the authors and no endorsement by FORHP, HRSA, HHS is intended or should be inferred.

Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 9/6/2020 – 9/19/2020

	Metropolitan (n = 1,151 of 1,166)	Nonmetropolitan (n = 634 of 641)	Noncore (n = 1,236 of 1,335)
<i>Any decrease</i>	347 (30.1%)	155 (24.4%)	248 (20.1%)
Notable decrease ^b	165 (14.3%)	91 (14.4%)	206 (16.7%)
Same number, both weeks ^c	143 (12.4%)	132 (20.8%)	422 (34.1%)
<i>Any increase</i>	661 (57.4%)	347 (54.7%)	566 (45.8%)
Notable increase ^b	459 (39.9%)	281 (44.3%)	520 (42.1%)
Increase of 100% or more	163 (14.2%)	119 (18.8%)	319 (25.8%)

^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.

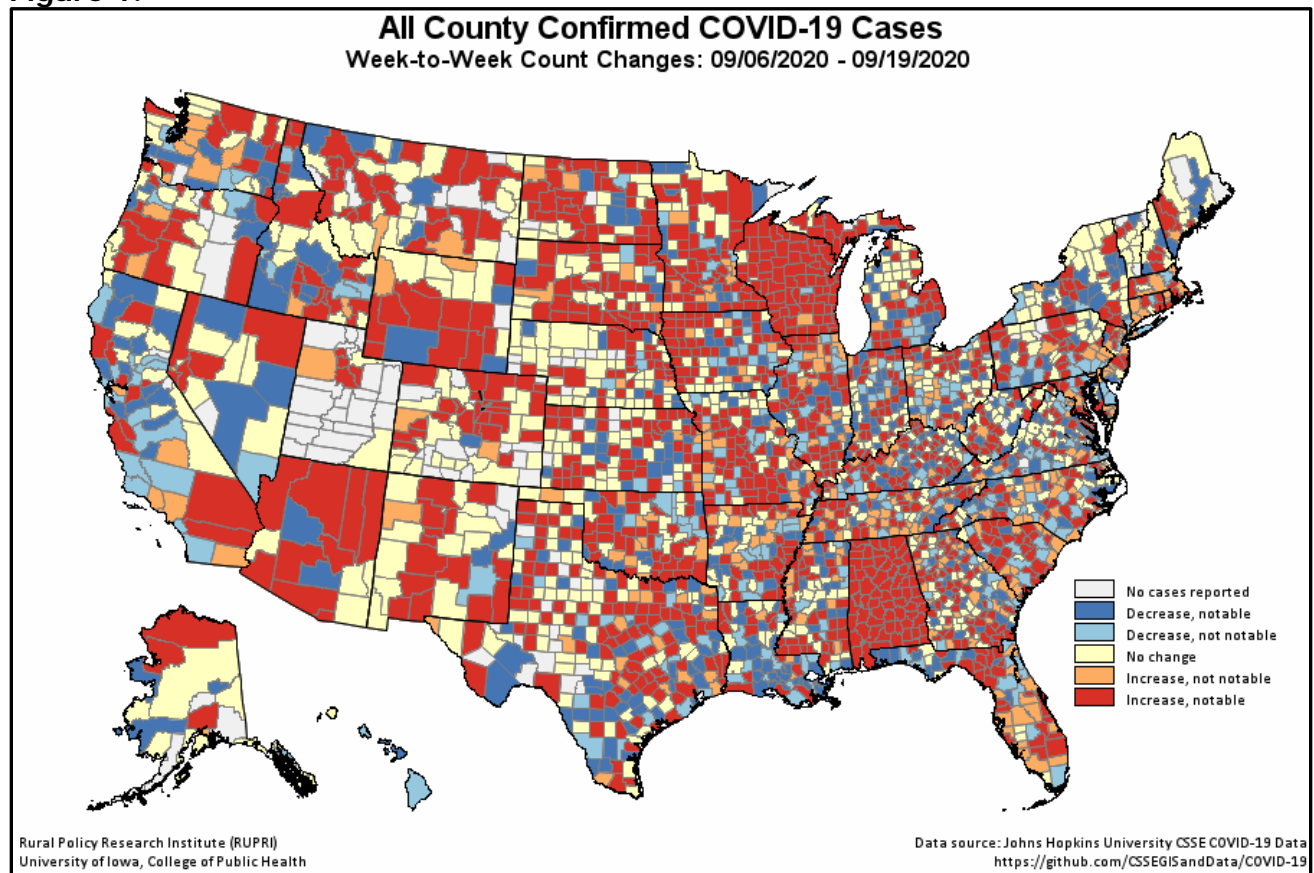


Figure 2.

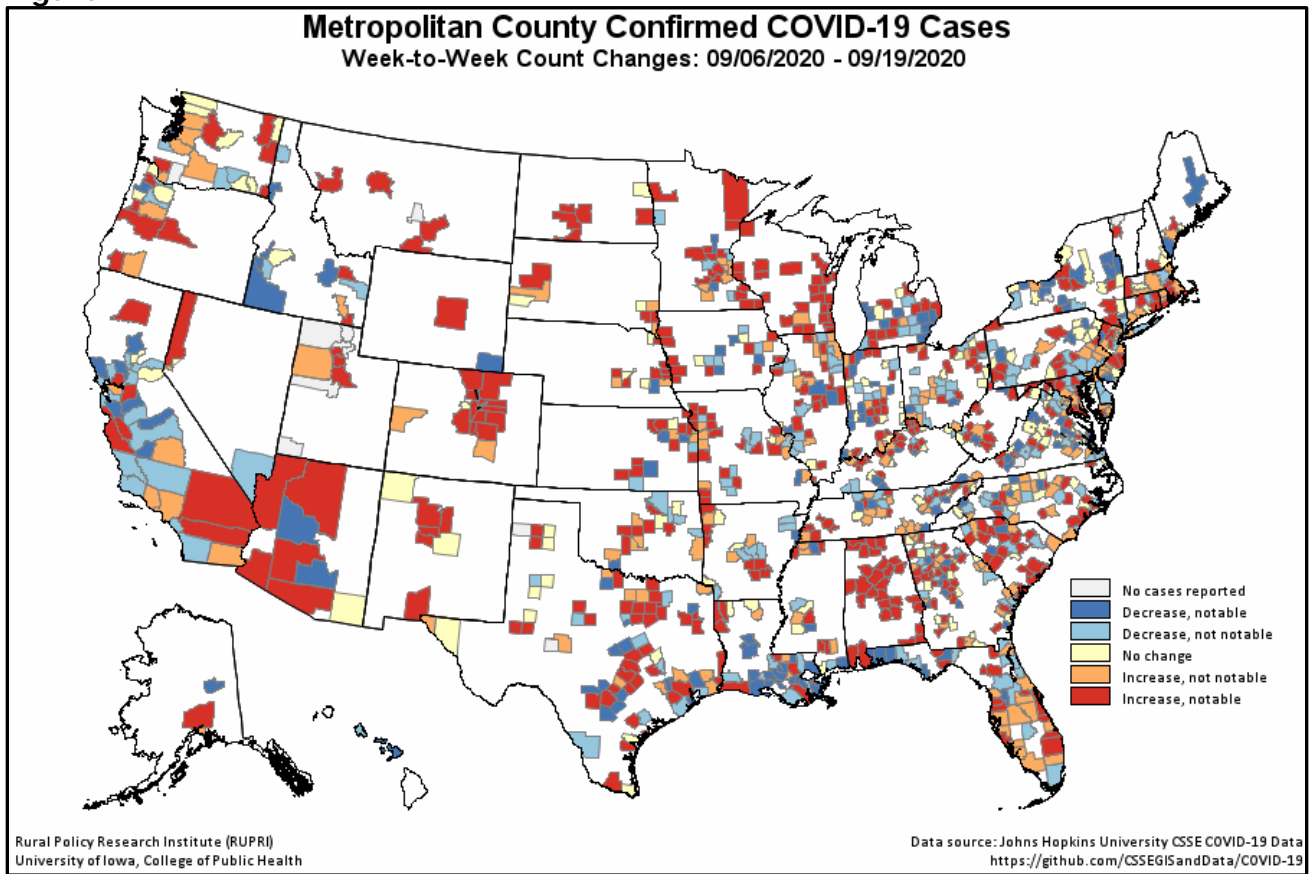


Figure 3.

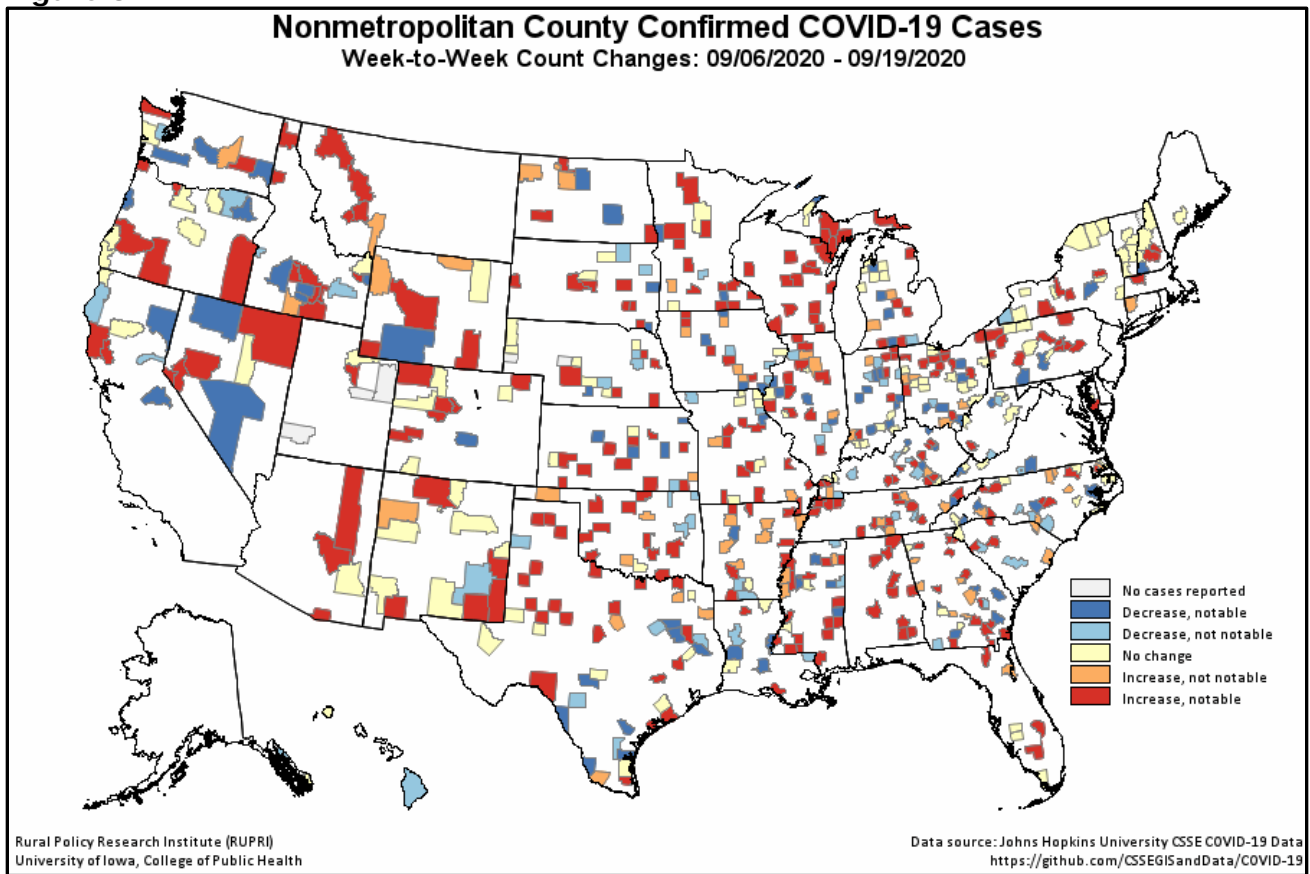
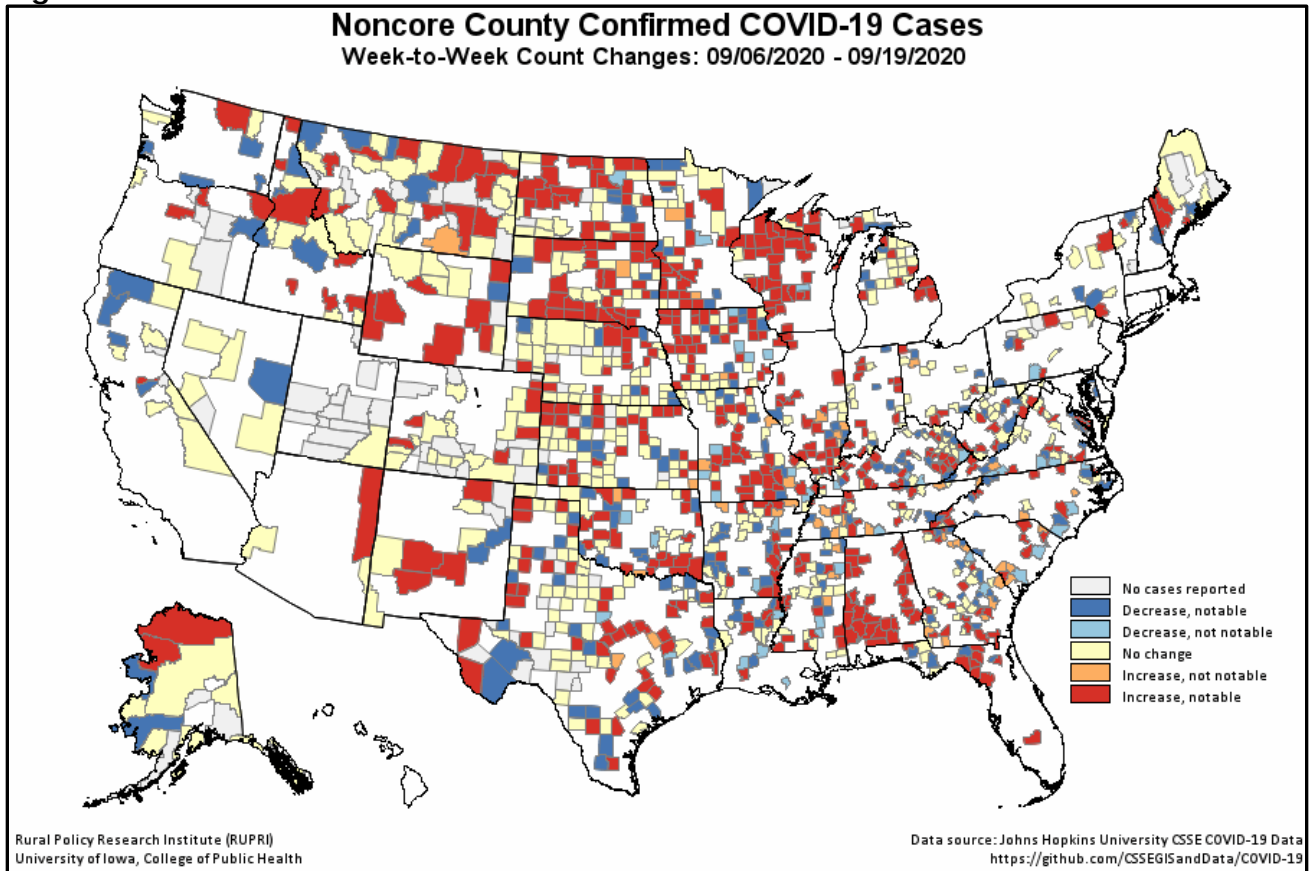


Figure 4.



¹ COVID-19 case and death data for this ongoing report were previously obtained from [USAFacts.org](https://data.usafacts.org/). Reports after 8/15/2020 use data from the [COVID-19 Data Repository by the Center for Systems Science and Engineering \(CSSE\) at Johns Hopkins University](https://github.com/CSSEGISandData/COVID-19). 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/>.