

RUPRI Center for Rural Health Policy Analysis

Rural Data Update

Brief No. 2020-6

MARCH 2021

<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 February 21, 2021, and March 6, 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^a in newly confirmed COVID-19 cases, by county geography: 2/21/2021 – 3/6/2021

	Metropolitan (n = 1,166)	Nonmetropolitan (n = 641)	Noncore (n = 1,335)
No cases reported	10 (0.9%)	7 (1.1%)	54 (4.0%)
Decreasing, notable ^b	401 (34.4%)	268 (41.8%)	487 (36.5%)
Decreasing, not notable	334 (28.6%)	120 (18.7%)	71 (5.3%)
Same number, both weeks ^c	107 (9.2%)	97 (15.1%)	426 (31.9%)
Increasing, not notable	180 (15.4%)	48 (7.5%)	36 (2.7%)
Increasing, notable	134 (11.5%)	101 (15.8%)	261 (19.6%)

^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.



Funded by the Federal Office of Rural Health Policy
www.ruralhealthresearch.org

#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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Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 2/21/2021 – 3/6/2021

	Metropolitan (n = 1,156 of 1,166)	Nonmetropolitan (n = 634 of 641)	Noncore (n = 1,281 of 1,335)
Any decrease	735 (63.6%)	388 (61.2%)	558 (43.6%)
Notable decrease ^b	401 (34.7%)	268 (42.3%)	487 (38.0%)
Same number, both weeks ^c	107 (9.3%)	97 (15.3%)	426 (33.3%)
Any increase	314 (27.2%)	149 (23.5%)	297 (23.2%)
Notable increase ^b	134 (11.6%)	101 (15.9%)	261 (20.4%)
Increase of 100% or more	43 (3.7%)	29 (4.6%)	137 (10.7%)

^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.

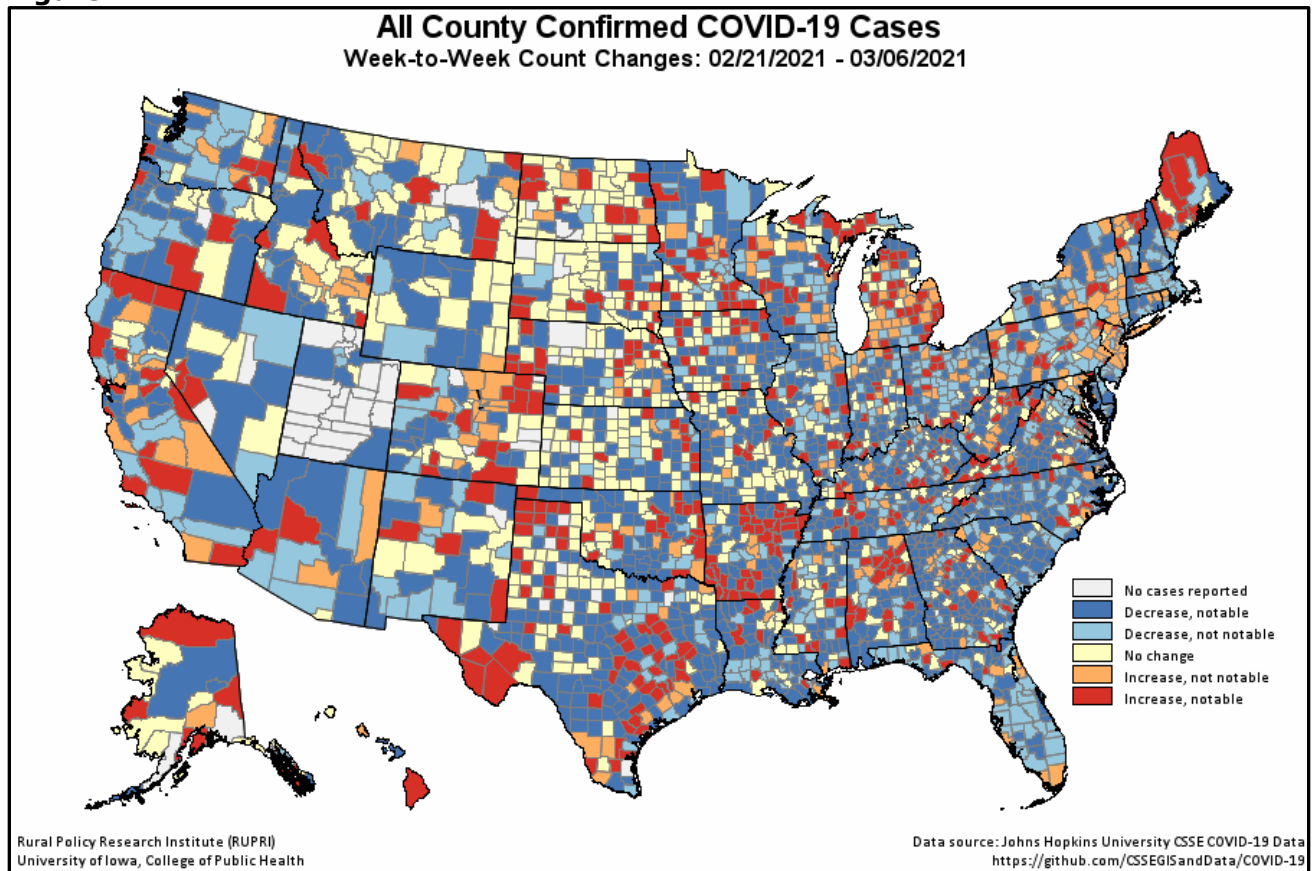


Figure 2.

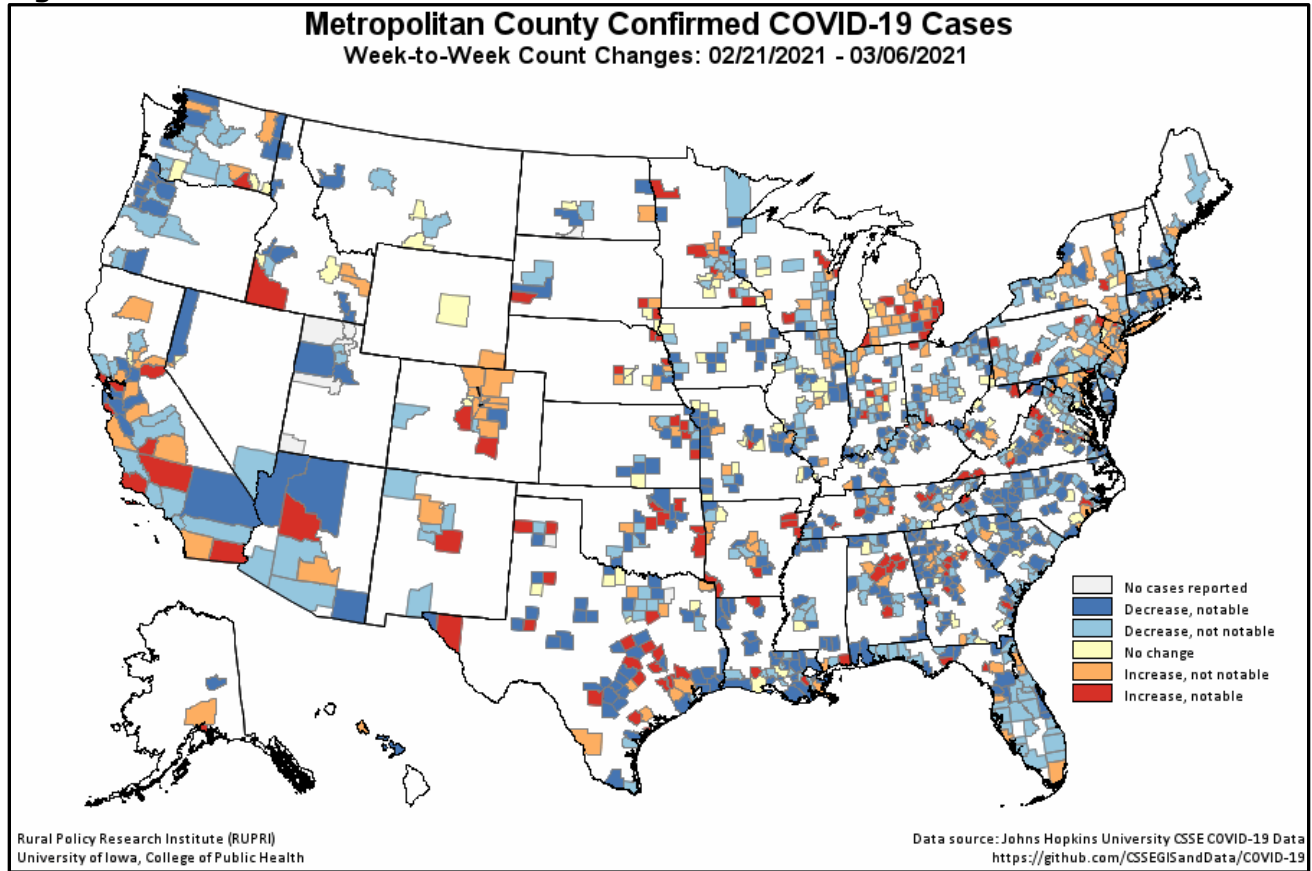


Figure 3.

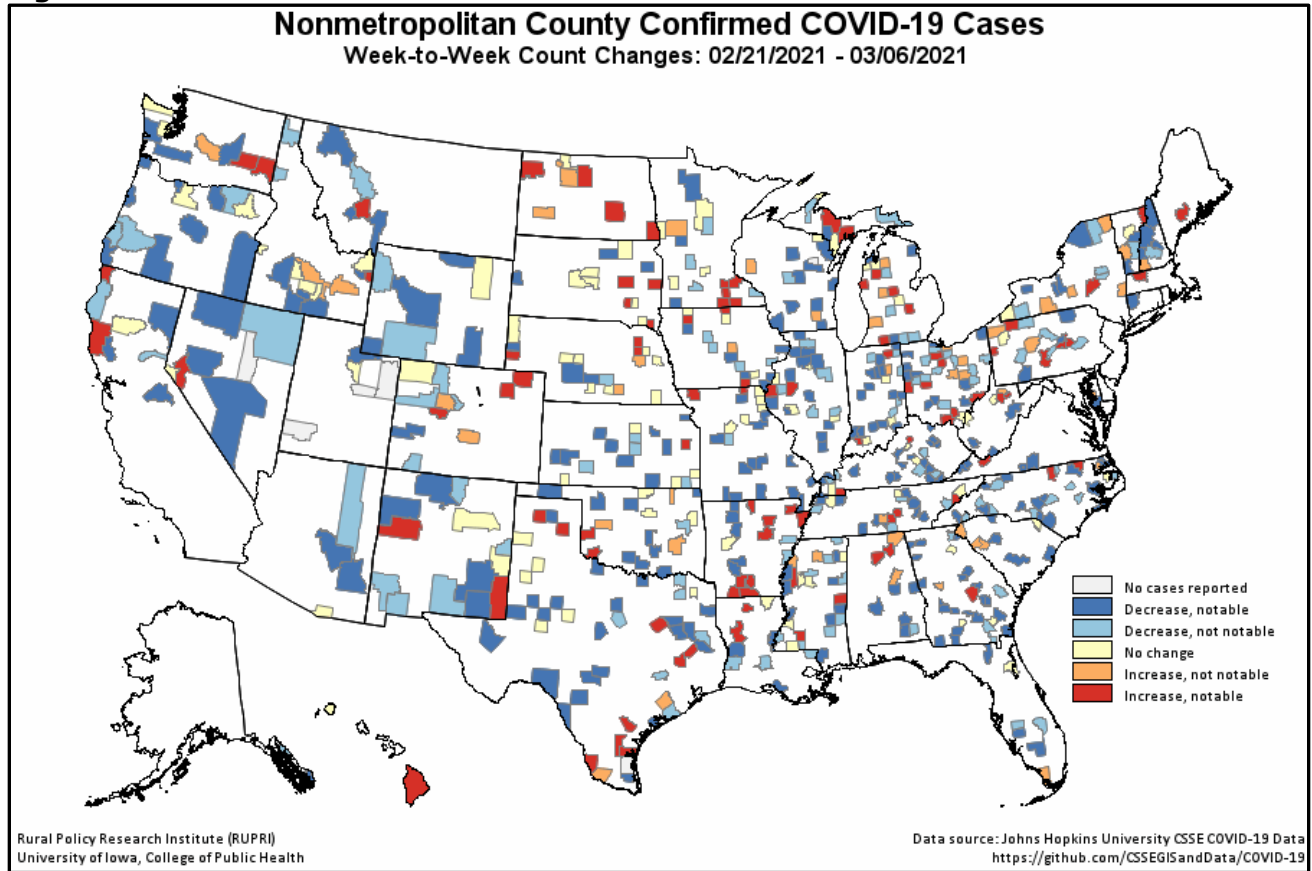
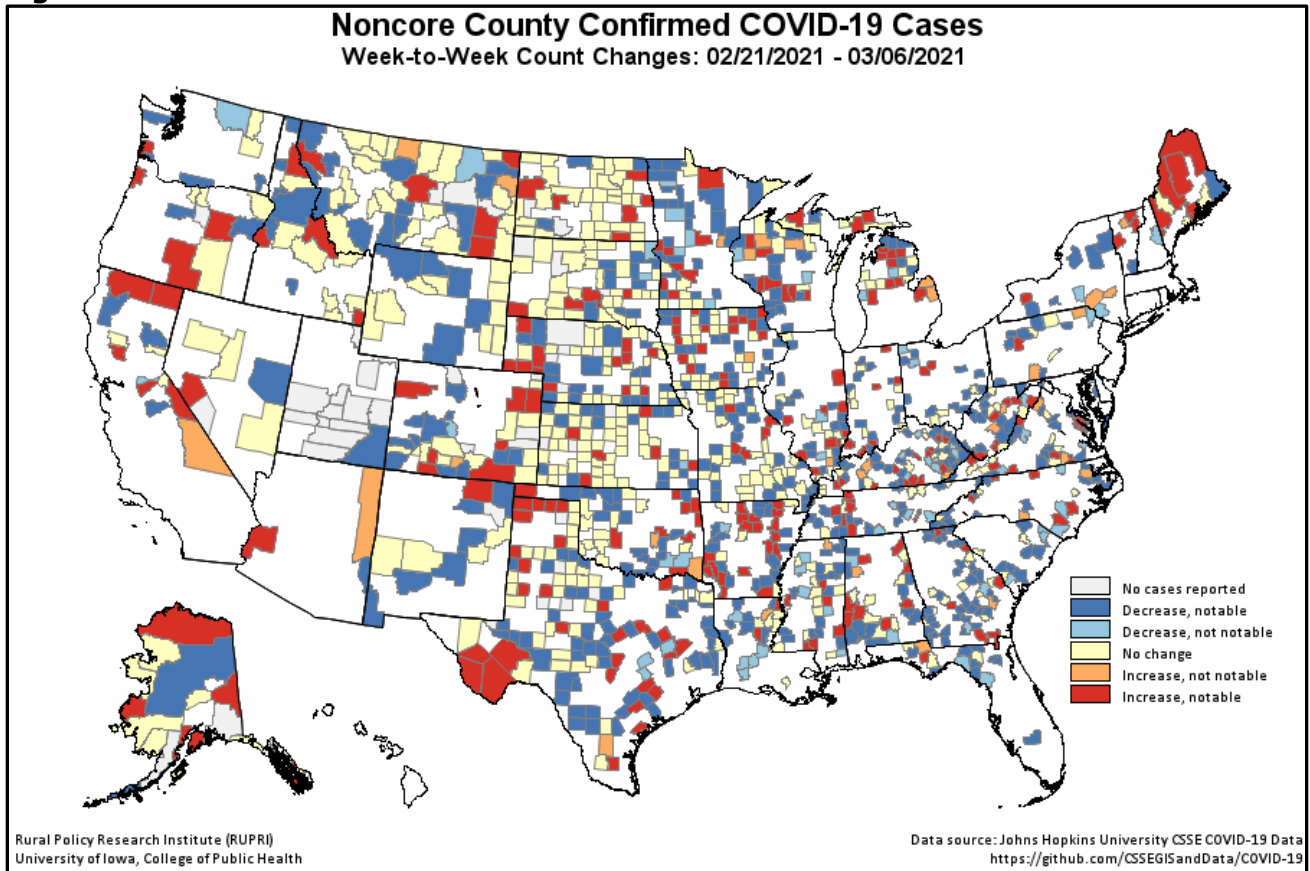


Figure 4.



¹ COVID-19 case and death data for this ongoing report were previously obtained from [USAFacts.org](https://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/>.