

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 March 19, 2022, and April 1, 2022, 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: 3/19/2022 – 4/1/2022

	Metropolitan (n = 1,166)	Nonmetropolitan (n = 641)	Noncore (n = 1,335)
No cases reported	10 (0.9%)	9 (1.4%)	119 (8.9%)
Decreasing, notable ^b	405 (34.7%)	274 (42.7%)	424 (31.8%)
Decreasing, not notable	125 (10.7%)	38 (5.9%)	16 (1.2%)
Same number, both weeks ^c	216 (18.5%)	180 (28.1%)	551 (41.3%)
Increasing, not notable	119 (10.2%)	20 (3.1%)	11 (0.8%)
Increasing, notable	291 (25.0%)	120 (18.7%)	214 (16.0%)

^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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Table 2. 14-day trends^a in newly confirmed COVID-19 cases, in counties with any cases, by county geography: 3/19/2022 – 4/1/2022

	Metropolitan (n = 1,156 of 1,166)	Nonmetropolitan (n = 632 of 641)	Noncore (n = 1,216 of 1,335)
Any decrease	530 (45.8%)	312 (49.4%)	440 (36.2%)
Notable decrease ^b	405 (35.0%)	274 (43.4%)	424 (34.9%)
Same number, both weeks ^c	216 (18.7%)	180 (28.5%)	551 (45.3%)
Any increase	410 (35.5%)	140 (22.2%)	225 (18.5%)
Notable increase ^b	291 (25.2%)	120 (19.0%)	214 (17.6%)
Increase of 100% or more	109 (9.4%)	71 (11.2%)	150 (12.3%)

^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.

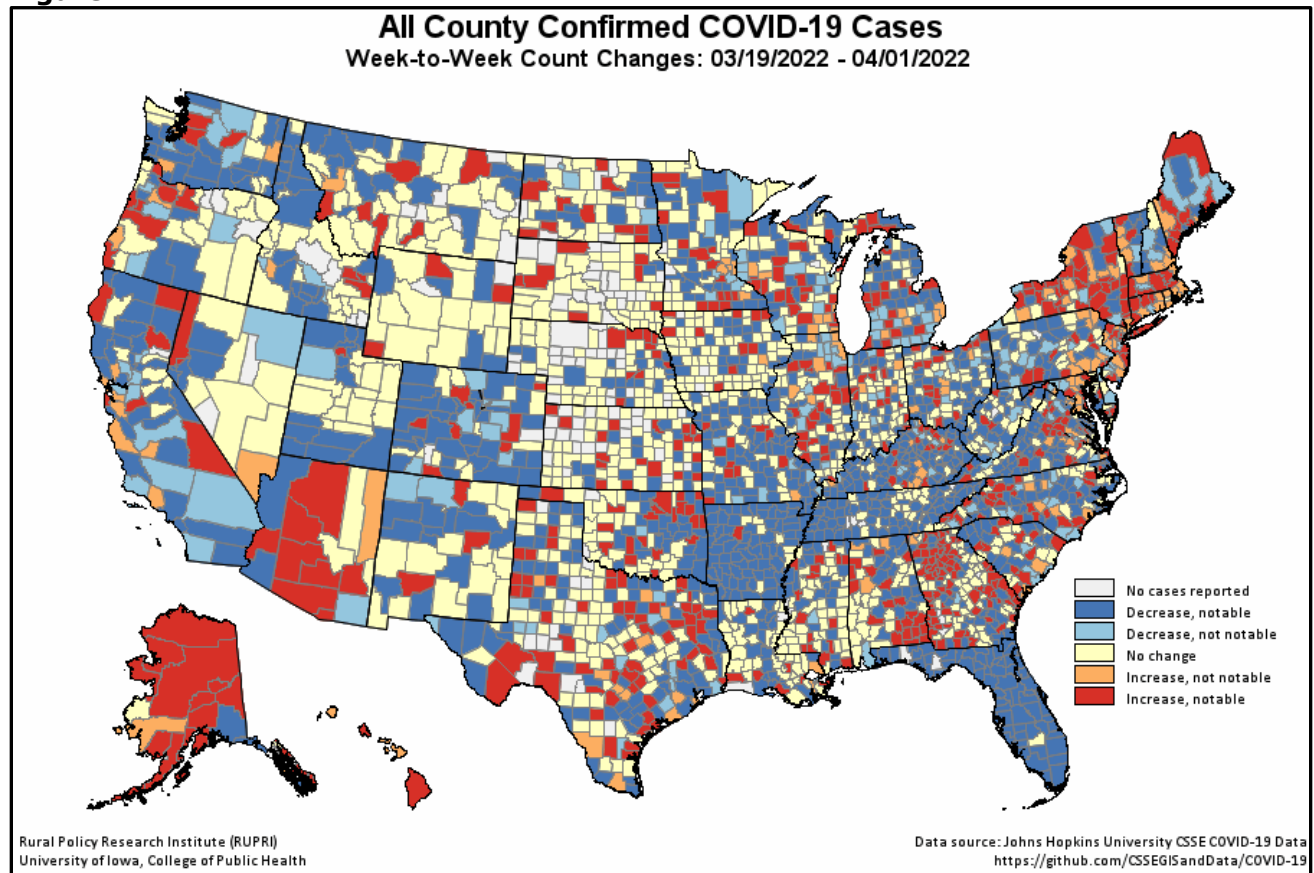


Figure 2.

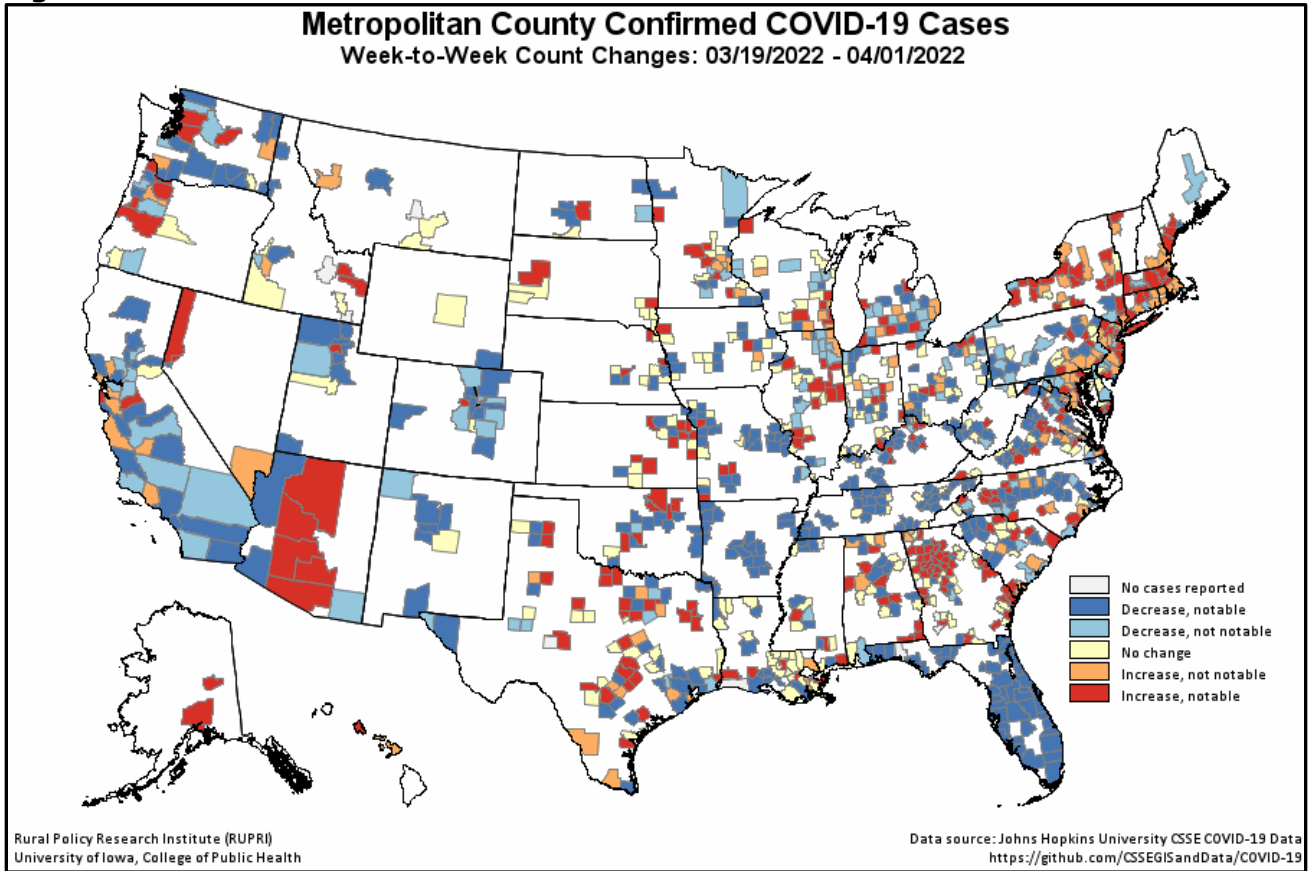


Figure 3.

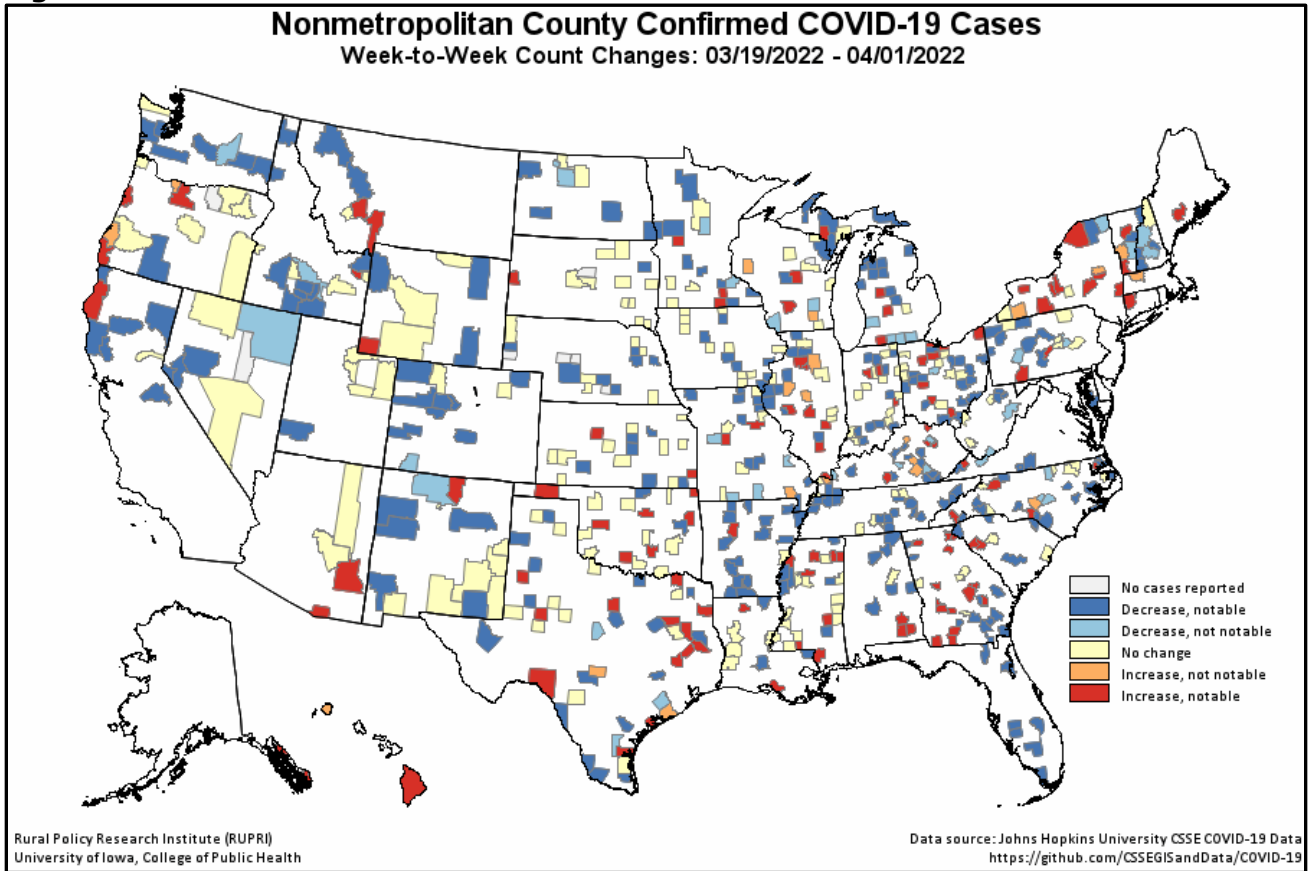
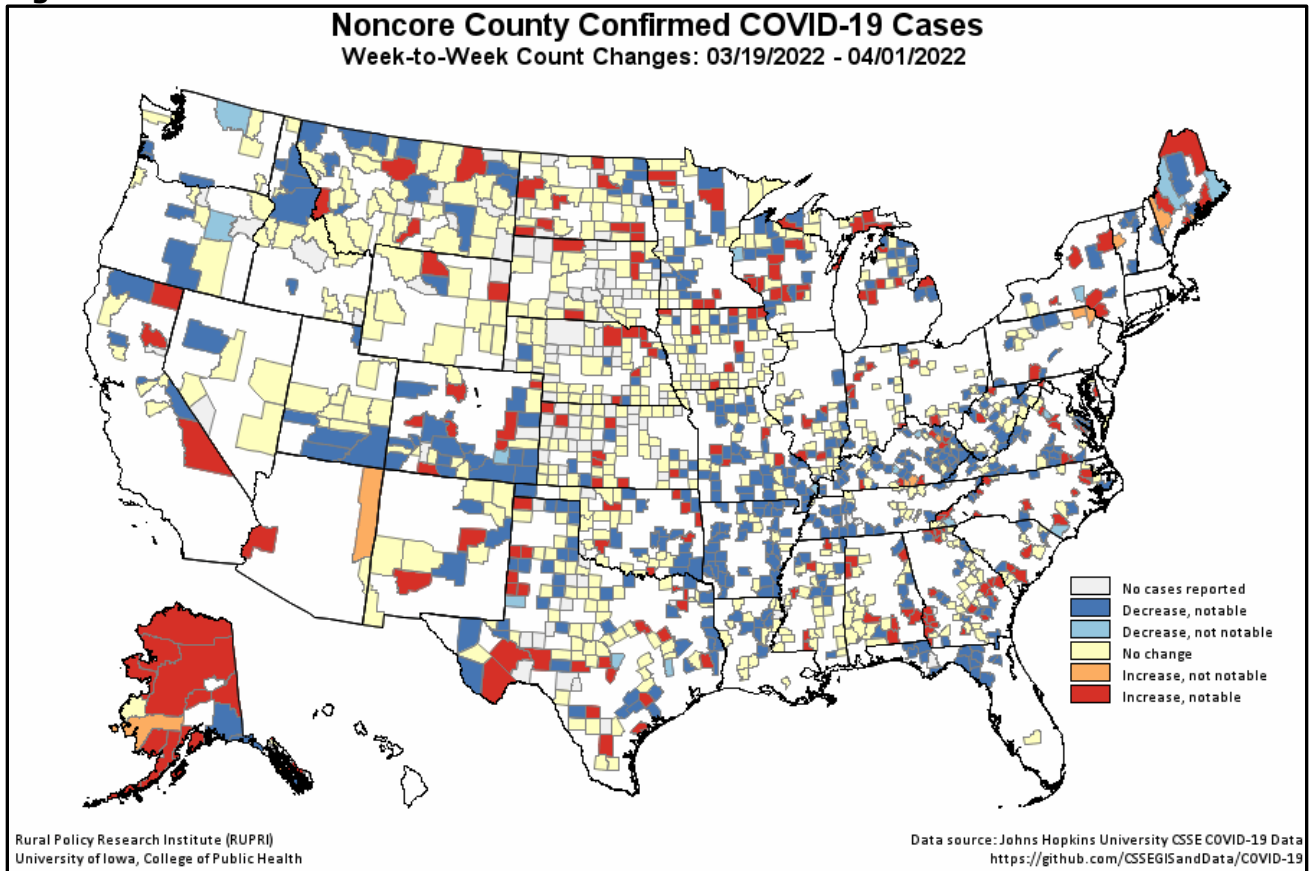


Figure 4.



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.

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.

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/>.