

RUPRI Center for Rural Health Policy Analysis

Rural Data Update

May 27, 2020

<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 May 10, 2020, and May 23, 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 USAFacts.org¹. 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

	Metropolitan (n = 1,166)	Nonmetropolitan (n = 641)	Noncore (n = 1,335)
No cases reported	59 (5.1%)	75 (11.7%)	475 (35.6%)
Decreasing, notable ^b	230 (19.7%)	113 (17.6%)	132 (9.9%)
Decreasing, not notable	115 (9.9%)	22 (3.4%)	9 (0.7%)
Same number, both weeks ^c	306 (26.2%)	244 (38.1%)	526 (39.4%)
Increasing, not notable	106 (9.1%)	14 (2.2%)	11 (0.8%)
Increasing, notable	350 (30.0%)	173 (27.0%)	182 (13.6%)

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

	Metropolitan (n = 1,107 of 1,166)	Nonmetropolitan (n = 566 of 641)	Noncore (n = 860 of 1,335)
Any decrease	345 (31.2%)	135 (23.9%)	141 (16.4%)
Notable decrease ^b	230 (20.8%)	113 (20.0%)	132 (15.3%)
Same number, both weeks ^c	306 (27.6%)	244 (43.1%)	526 (61.2%)
Any increase	456 (41.2%)	187 (33.0%)	193 (22.4%)
Notable increase ^b	350 (31.6%)	173 (30.6%)	182 (21.2%)
Increase of 100% or more	172 (15.5%)	121 (21.4%)	144 (16.7%)

^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.



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Figure 1.

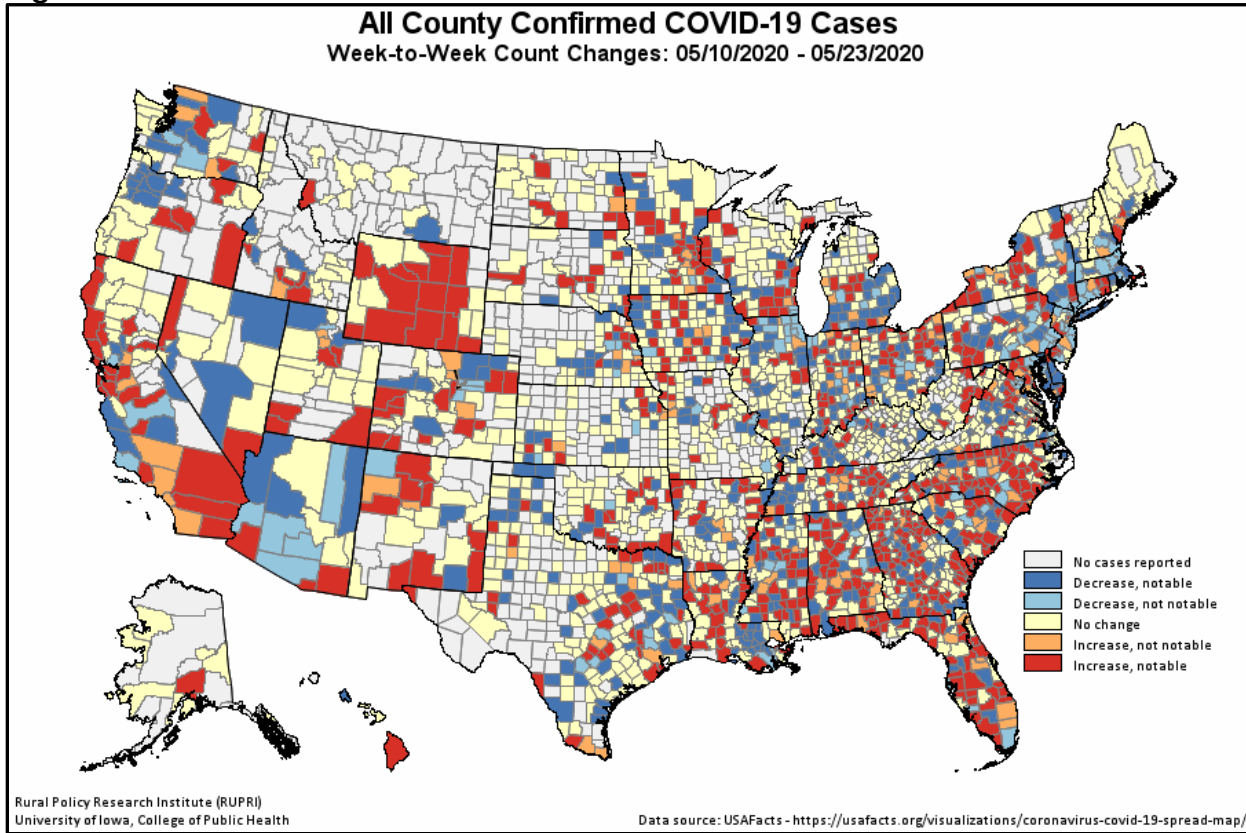


Figure 2.

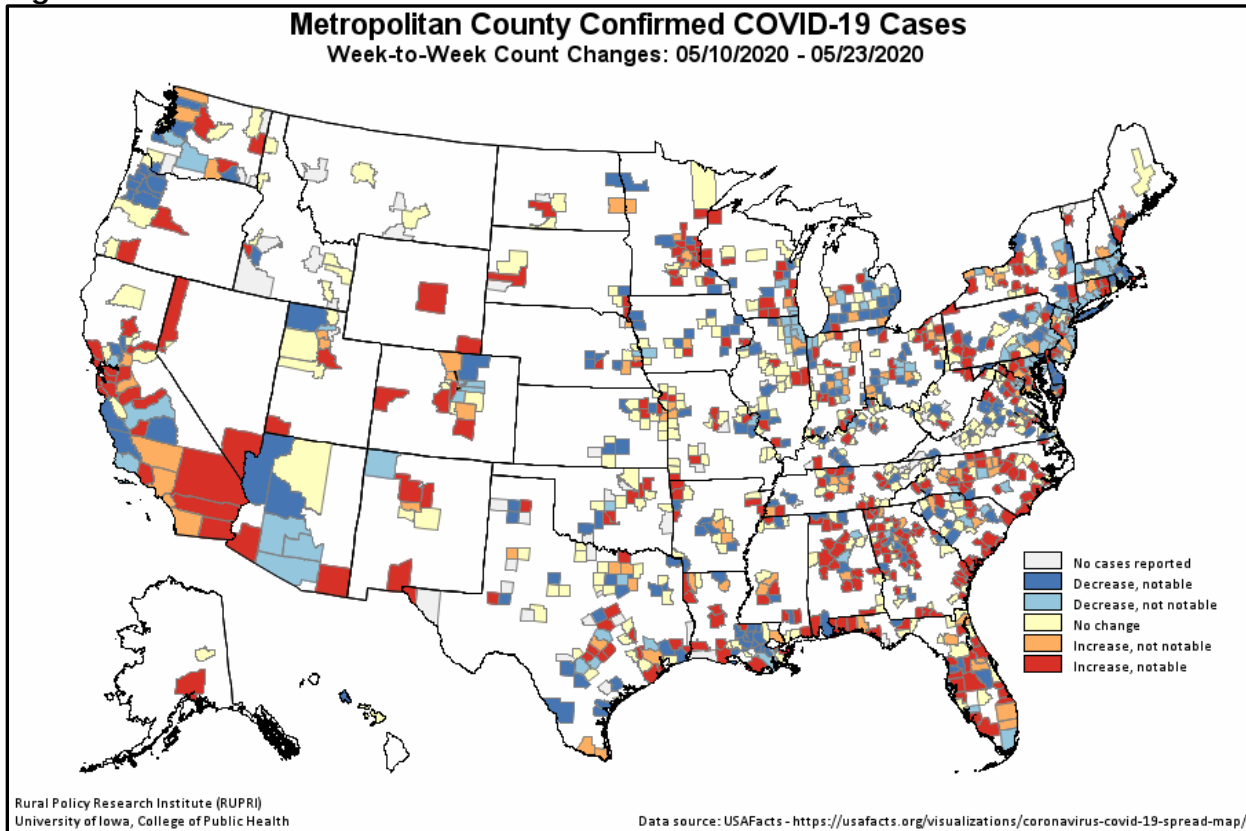


Figure 3.

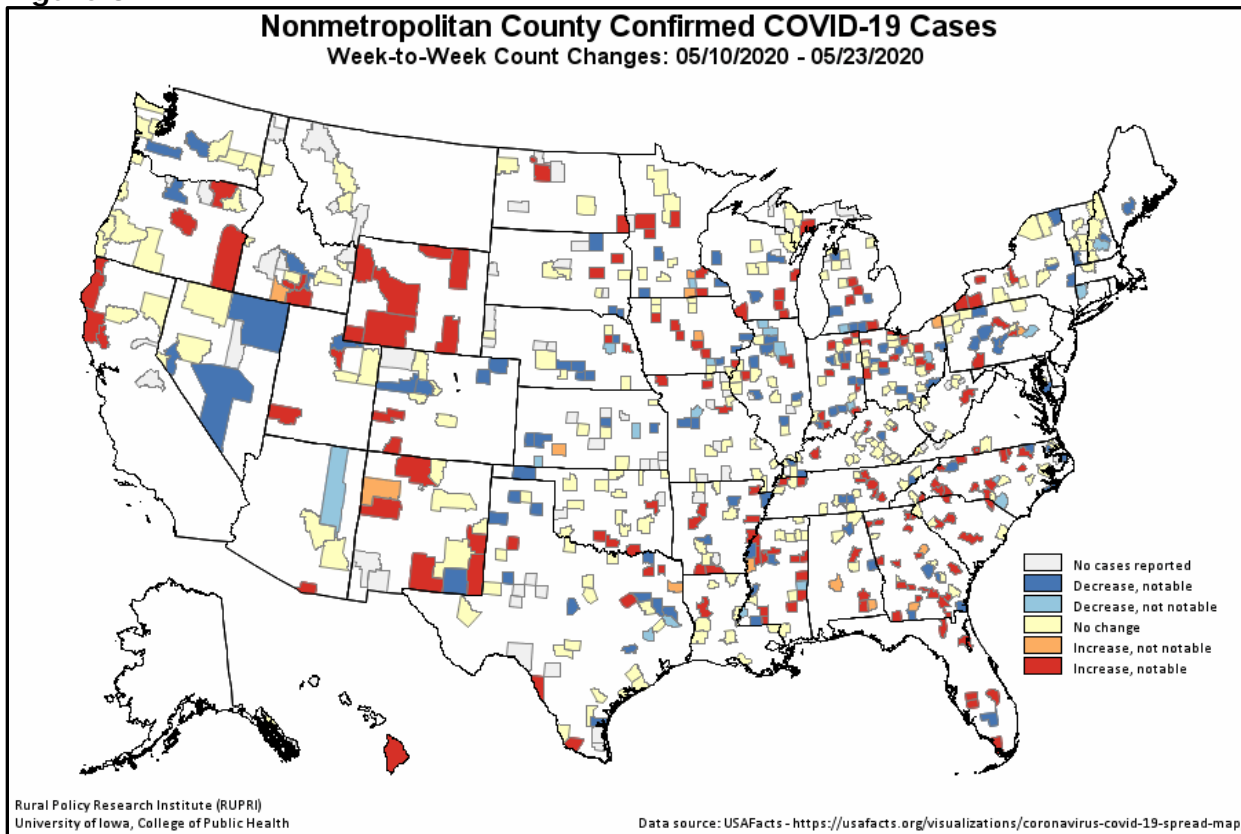
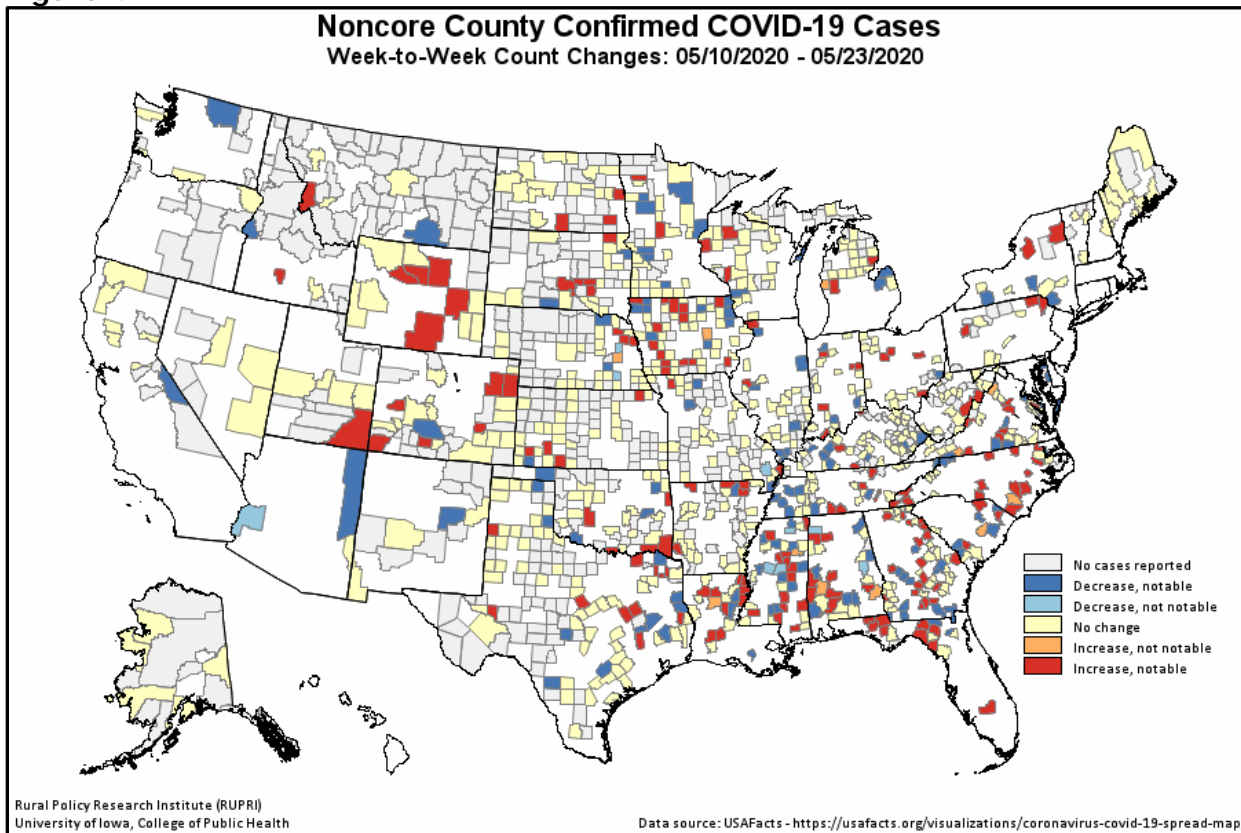


Figure 4.



¹ USAFacts.org (2020). "Coronavirus Locations: COVID-19 Map by County and State." Data retrieved from <https://usafacts.org/visualizations/coronavirus-covid-19-spread-map/>.

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/>.