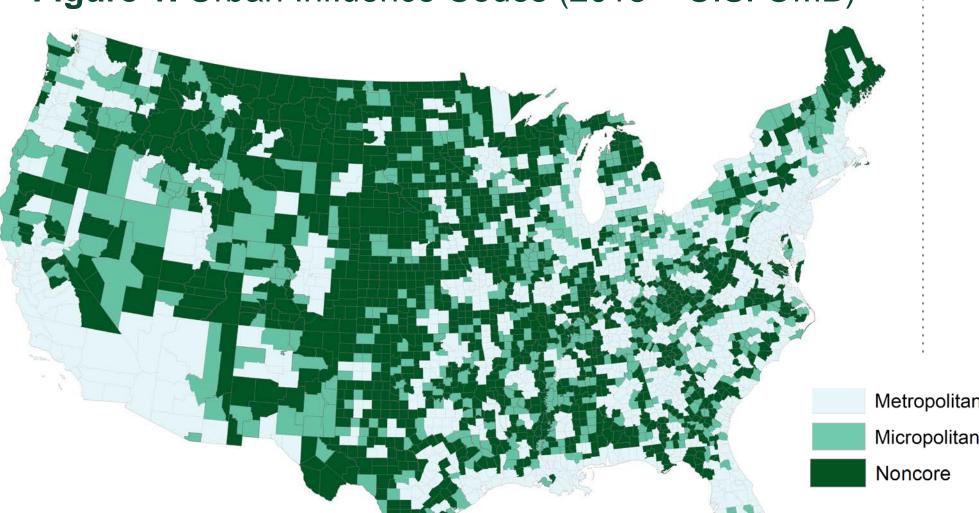
The Community Reinvestment Act (CRA) and Non-Metropolitan Small Business Lending

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How does the presence or absence of small business loans affect the emergence and development of rural businesses in traditionally underserved areas? In our ongoing work, we have established that locally oriented businesses such as small manufacturing establishments and retail outlets are associated with a number of beneficial local outcomes and promote nonmetropolitan community resilience. In this poster, we address how the Community Reinvestment Act (CRA) [and its economic capitals] have contributed to the growth of small businesses in areas that were previously credit-constrained. The CRA establishes lending, investments, and services in low- and neighborhoods traditionally underserved by financial institutions. Using an innovative longitudinal dataset created in-house from public disclosure flat files, we employ data on lending in more than 3,000 U.S. counties. Ultimately, the goal of this poster project is to provide captivating analytical visualizations, along with relevant documentation to further the knowledge in the rural social sciences on business lending in underserved nonmetropolitan communities.

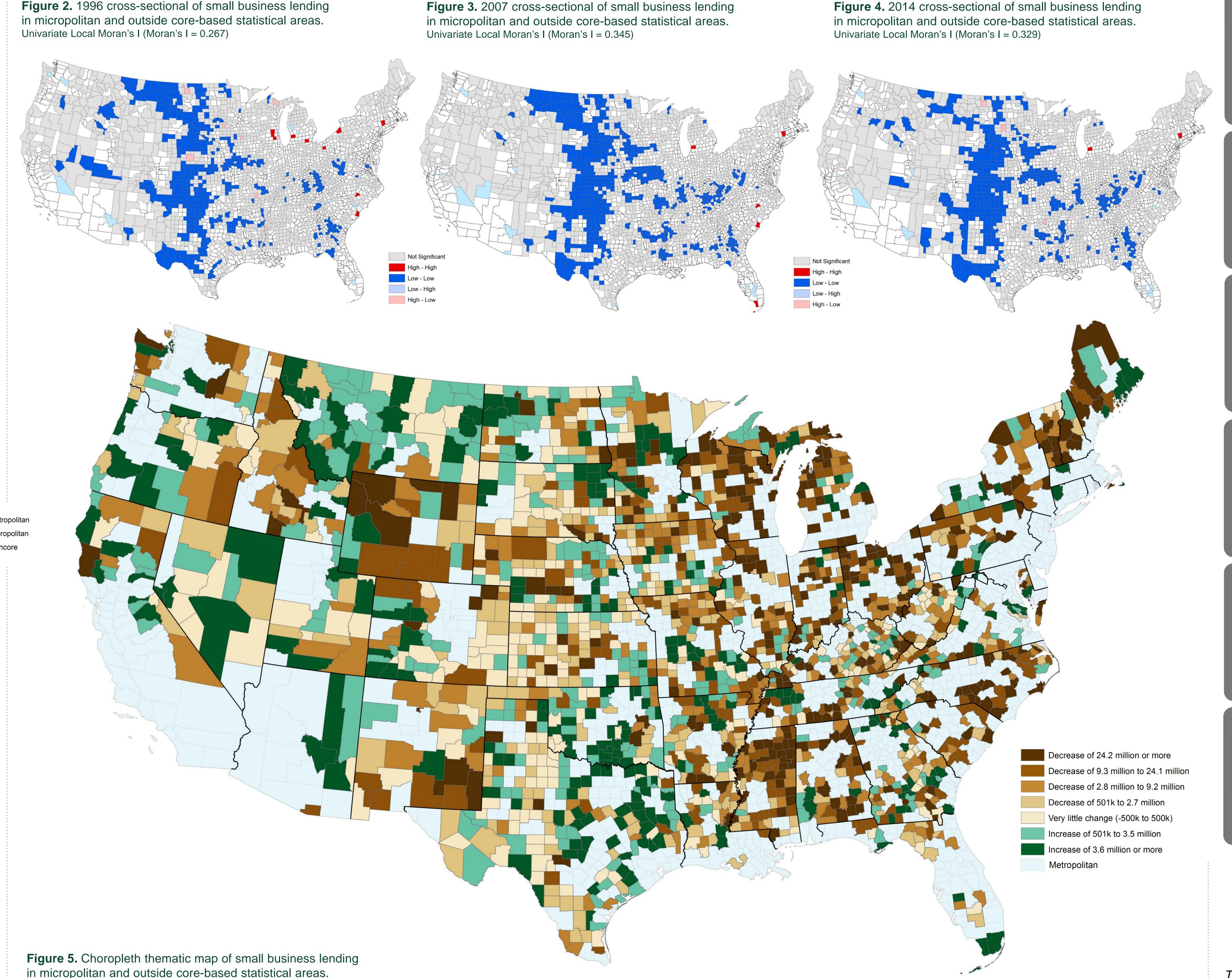
Figure 1. Urban Influence Codes (2013 – U.S. OMB)



METHOD

Data for this poster was retrieved from the Federal Financial Institutions Examination Council's (FFIEC) public portal and processed using SAS for movement into the Texas Federal Statistical Data Center (at Texas A&M University, College Station, Texas), in support of TX1320 'Local Credit Availability and the Performance of Small and Young Businesses'. The data illustrated in this poster represents county-level total loan amounts originated to businesses with gross annual revenues of less than one million.

Figures 1 and 5 were compiled in ESRI ArcGIS Pro 2.0, and provide the standard for analyses (using the 2013 OMB Urban Influence Codes. Figures 2-4, with particular years chosen for their salience, were computed in GeoDa 1.8.16.4 using queen contiguity weights and compiled in ESRI ArcGIS Pro 2.0. The univariate LISA (Local Moran's I) chosen to demonstrate local spatial autocorrelation across the non-metropolitan geography; all mapped clusters are significant at p < .001 with 999 permutations. Figure 5 represents the change from the average of the first three, and last three years of available loan data (with all counts weighted to the 2017 average annual consumer price index (CPI)). A choropleth thematic map is chosen to proportionally pattern and bin (in seven quantiles) the statistical variable. Graphical output emphasizes micropolitan and outside core based statistical areas. Six counties in Figure 5, finally, are profiled using the USDA County Typology Codes.



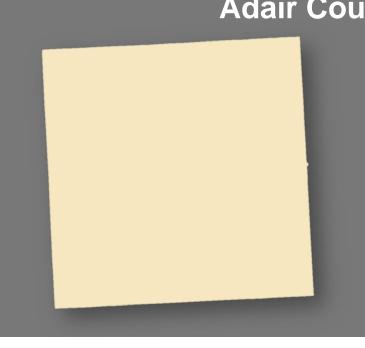


Decrease of 35m in lending
Noncore not adjacent
Recreation economy
Average education
Less than 65% employed
No population decline
Less than 20% in poverty

Schuyler County, Missouri



Adair County, Iowa



Very little change (4.8k)
Noncore adjacent to metro
Nonspecialized economy
Average education
Less than 65% employed
Population loss
Less than 20% in poverty

Pulaski County, Illinois



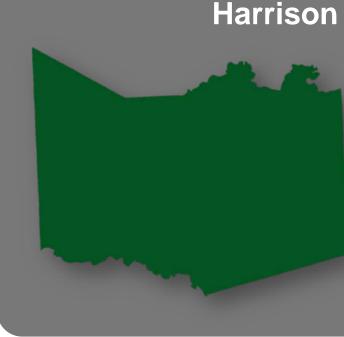
Increase of 645k in lending
Noncore adjacent to metro
Government economy
Average education
Less than 65% employed
Population loss
Persistent poverty

Lincoln County, Maine



Increase of 12m in lending
Micro not adjacent to metro
Recreation economy
Average education
Average unemployment
No population decline
Less than 20% in poverty

Harrison County, Texas



Increase of 38m in lending
Micro adjacent to metro
Mining economy
Average education
Average unemployment
No population decline
Persistent related child poverty





United States Department of Agriculture National Institute of Food and Agriculture

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Change between 1995/6/7 and 2013/4/5

(years averaged, adjusted for inflation)