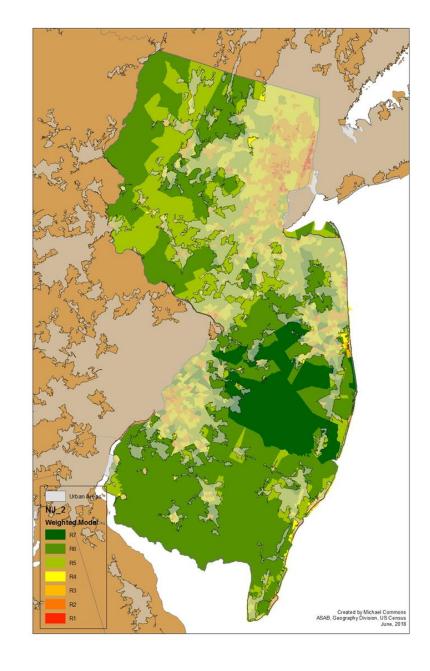
Defining Rurality

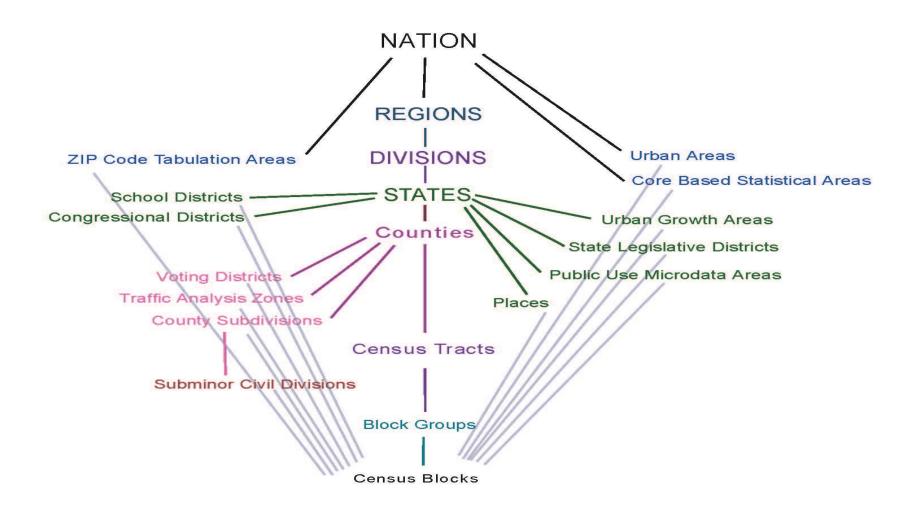
Michael Commons Geography Division US Census Bureau

June 20th, 2018



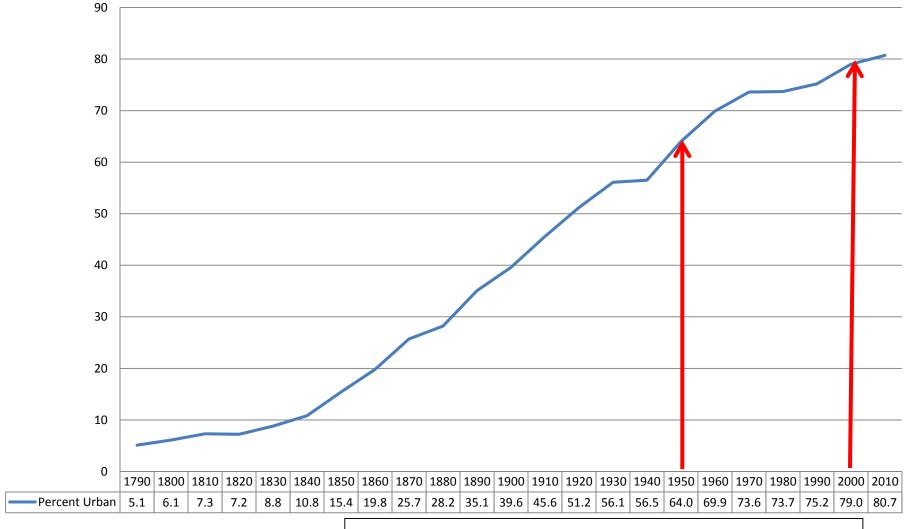


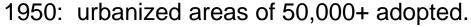
Standard Hierarchy of Census Geographic Entities





Urban Population as a Percentage of Total US Population, 1790-2010





2000: urban clusters of 2,500-49,999 adopted.



Census Bureau designated Urban Areas

- Delineated decennially
- Two types of urban areas:
 - Urbanized Areas (UAs) of 50,000 or more people
 - Urban Clusters (UCs) of at least 2,500 and less than 50,000 people

Urban and Rural Population in the United States: 2010 and 2000

	2000 Population	2000 Percent	2010 Population	2010 Percent
Urban	222,360,539	79.0	249,253,271	80.7
Urbanized Area	192,323,824	68.3	219,922,123	71.2
Urban Cluster	30,036,715	10.7	29,331,148	9.5
Rural	59,061,367	21.0	59,492,267	19.3

What is "Rural?"

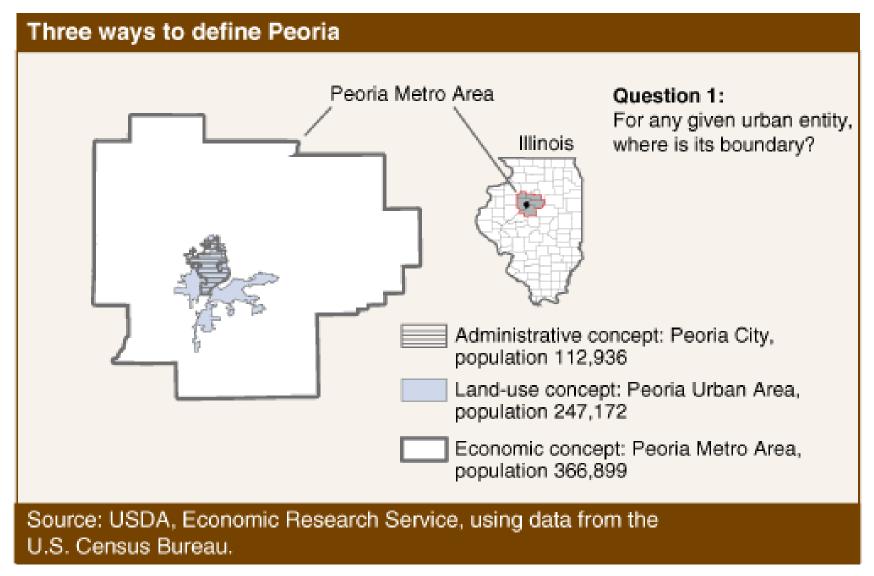
What is "rural?" What characterizes "rurality?"

- Low population density.
- Small numbers of people.
- Low levels of urbanization/urban population.
- Distance from/proximity to [larger] urban centers.
- Isolation and remoteness.

What is "Rural?"

- Rural often is defined as the residual. This could be "not urban" or "not metropolitan" in a dichotomous classification, or what remains after all other categories in a multi-category classification have been defined.
- "Rural" sometimes is defined as less than a specific population size threshold, such as, less than 2,500 or less than 10,000. This might be applied in an administrative unit-based definition. For example: incorporated places less than 10,000 people.

For any given urban entity, where is the boundary?





What is the minimum population size for an entity to be considered urban?

Depending on the definition, population size thresholds range from 2,500 to 50,000 people Question 2: What is the minimum population size for an entity to be considered urban? Saginaw, MI Richmond, IN Dublin, GA Bridgeport, AL Buena Vista, CO 2,195 2,728 15,857 39,124 61,799 Always rural Sometimes urban, sometimes rural Always urban Source: USDA, Economic Research Service, using data from the U.S. Census Bureau.



Urban and Rural in the United States

Classifications tend to be dichotomous:

- Urban and Rural;
- Metropolitan and Nonmetropolitan
- Rural/nonmetropolitan are residual categories

Classifications tend to describe:

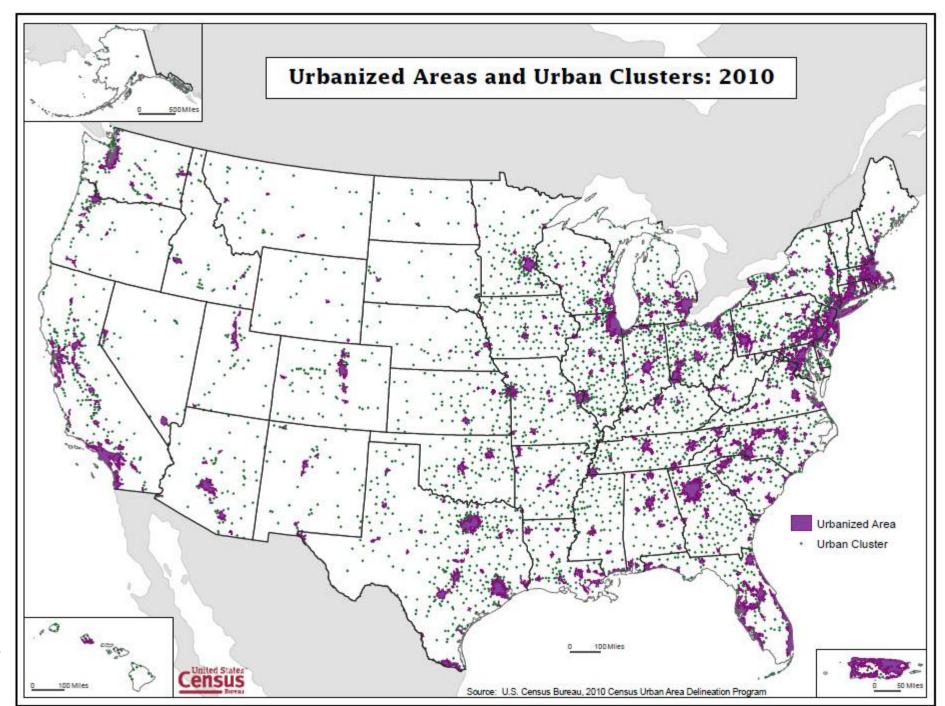
- Form/Structural (settlement patterns); or
- Function (economic and social relationships)

Census Bureau urban/rural = structural urban

Office of Management and Budget metropolitan and micropolitan statistical areas = functional urban

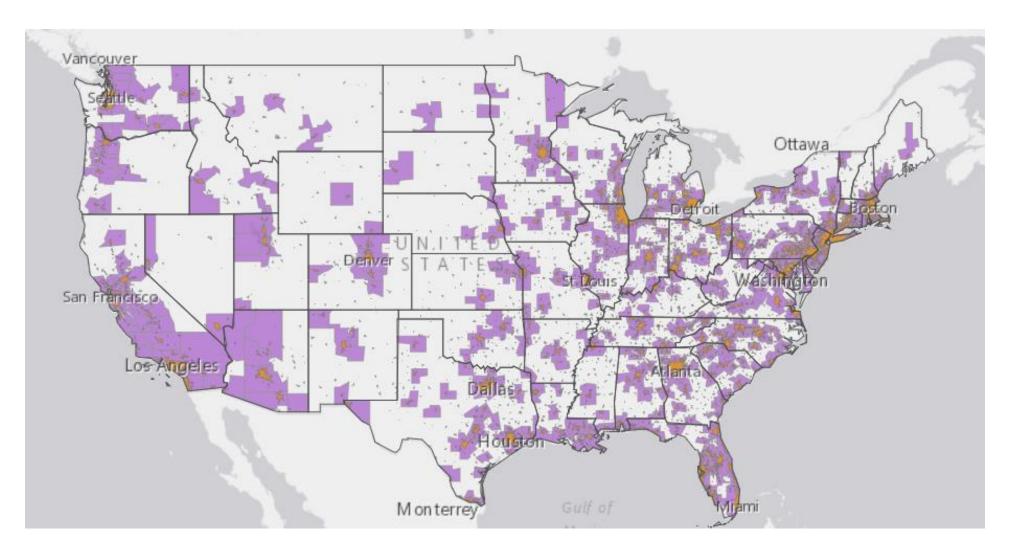
Census Bureau's Urban and Rural Classification

- The Census Bureau identifies and classifies urban and rural areas after each decennial census.
- Urban areas of at least 2,500 people have been identified since 1906.
- Urbanized areas of 50,000 or more people were first defined for the 1950 Census. Urban places of at least 2,500 people were identified outside urbanized areas. Urban clusters of 2,500 - 49,999 were first defined after Census 2000.
- The Census Bureau identifies urban and rural areas solely for the purpose of tabulating and presenting statistical data.
- Final criteria for defining urban areas published in the Federal Register, vol.
 76, no. 164 (August 24, 2011), pp. 53030-53043.
- More information: https://www.census.gov/geo/reference/ua/urban-rural-2010.html





Urban Areas and Metropolitan Statistical Areas





What is Rural?

USDA/Economic Research Service Rural-Urban Continuum Codes

- Nine-level classification commonly used with rural programs, research, and analysis.
- County-based.
- Classifies nonmetropolitan counties based on amount of urban population and adjacency or lack of adjacency to a metropolitan area.

Code	Description				
Metropolitan Counties					
1	Counties in metro areas of 1 million population or more				
2	Counties in metro areas of 250,000 to 1 million population				
3	Counties in metro areas of fewer than 250,000 population				
Nonmetropolitan Counties					
4	Urban population of 20,000 or more, adjacent to a metro area				
5	Urban population of 20,000 or more, not adjacent to a metro area				
6	Urban population of 2,500 to 19,999, adjacent to a metro area				
7	Urban population of 2,500 to 19,999, not adjacent to a metro area				
8	Completely rural or less than 2,500 urban population, adjacent to a metro area				
	Completely rural or less than 2,500 urban population, not adjacent to a metro				
9	area				



Rural-Urban Continuum Codes

USDA/Economic Research Service

Metro Counties:

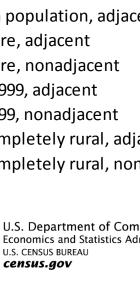
CODE	population	size of	metro area
	p	0 0.	

- 1 million or more
- 250,000 to 1 million
- fewer than 250,000

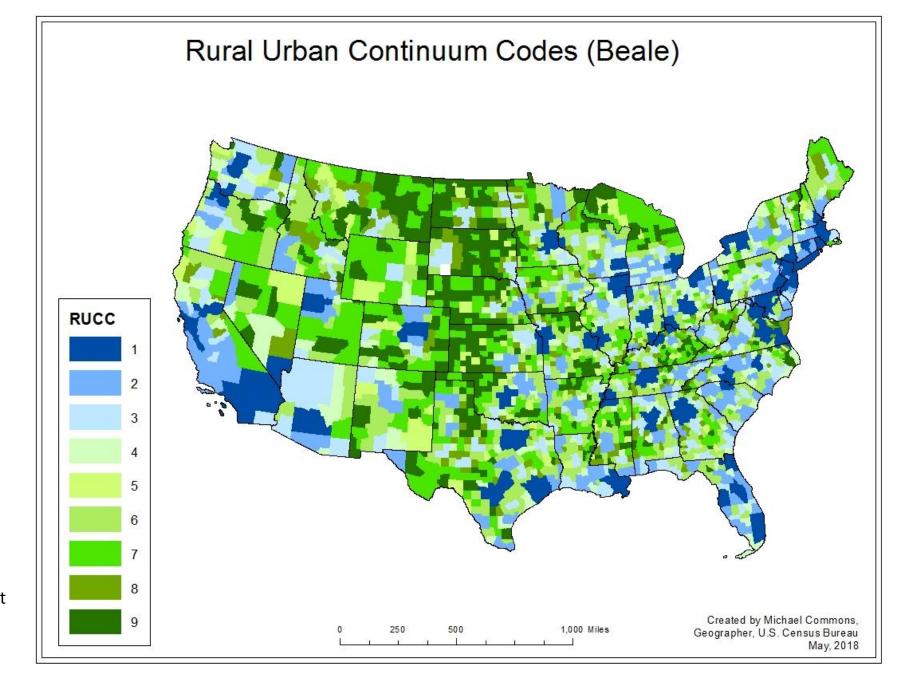
Nonmetro counties:

CODE size of urban population, adjacency

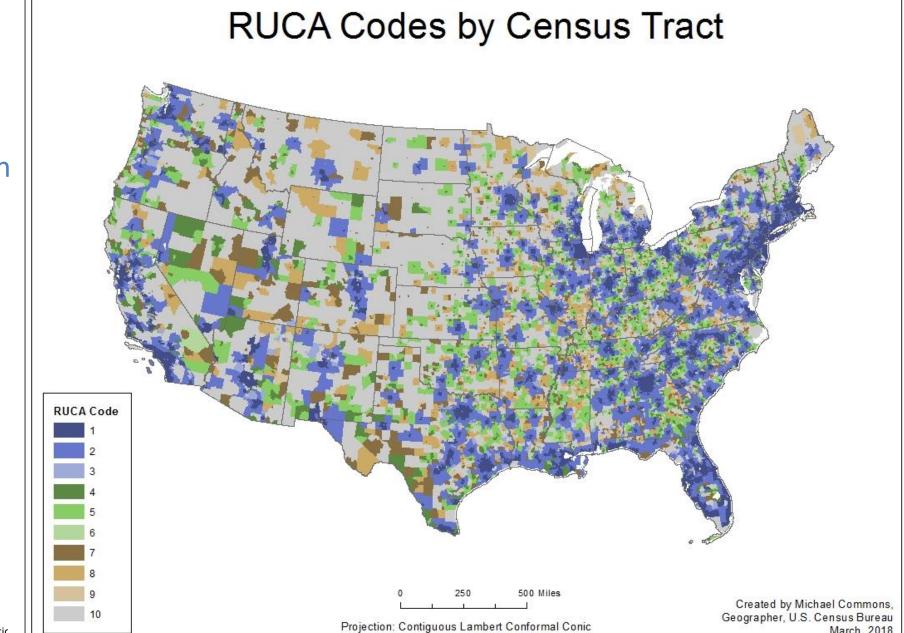
- 20,000 or more, adjacent
- 20,000 or more, nonadjacent
- 2,5000 to 19,999, adjacent
- 2,500 to 19,999, nonadjacent
- < 2,500 or completely rural, adjacent
- < 2,500 or completely rural, nonadjacent







Rural-Urban **Commuting Areas** USDA/Economic Research



March, 2018



Service

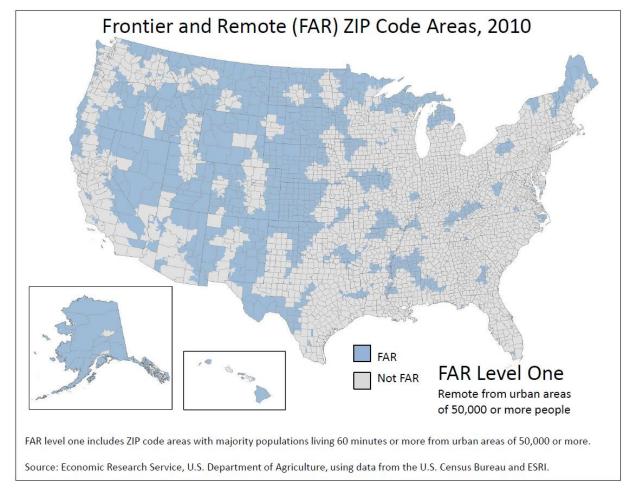
U.S. Department of Commerce Economics and Statistics Administratic U.S. CENSUS BUREAU census.gov

Rural-Urban Commuting Areas

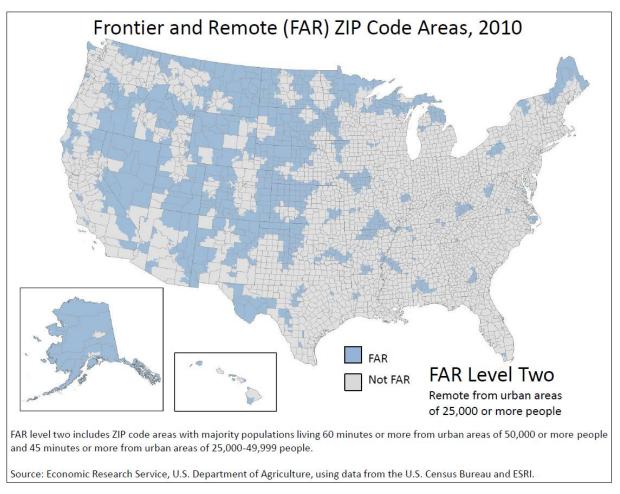
USDA/Economic Research Service

- 1 Metropolitan area core: primary flow within an Urbanized Area (UA)
- 2 Metropolitan area high commuting: primary flow 30% or more to a UA
- 3 Metropolitan area low commuting: primary flow 10% to 30% to a UA
- 4 Micropolitan area core: primary flow within an Urban Cluster of 10,000 to 49,999 (large UC)
- 5 Micropolitan high commuting: primary flow 30% or more to a large UC
- 6 Micropolitan low commuting: primary flow 10% to 30% to a large UC
- 7 Small town core: primary flow within an Urban Cluster of 2,500 to 9,999 (small UC)
- 8 Small town high commuting: primary flow 30% or more to a small UC
- 9 Small town low commuting: primary flow 10% to 30% to a small UC
- 10 Rural areas: primary flow to a tract outside a UA or UC

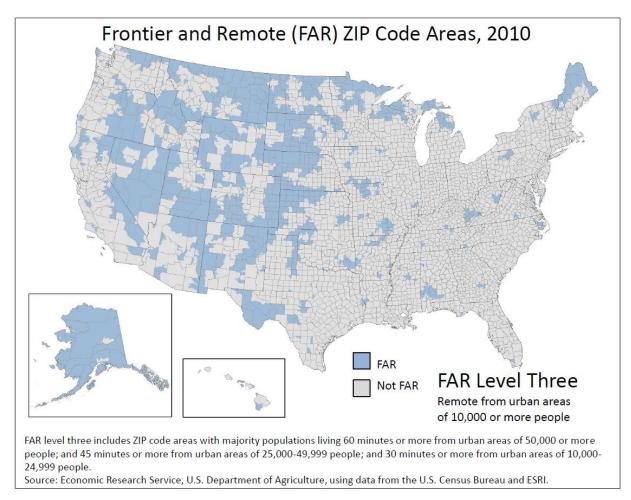




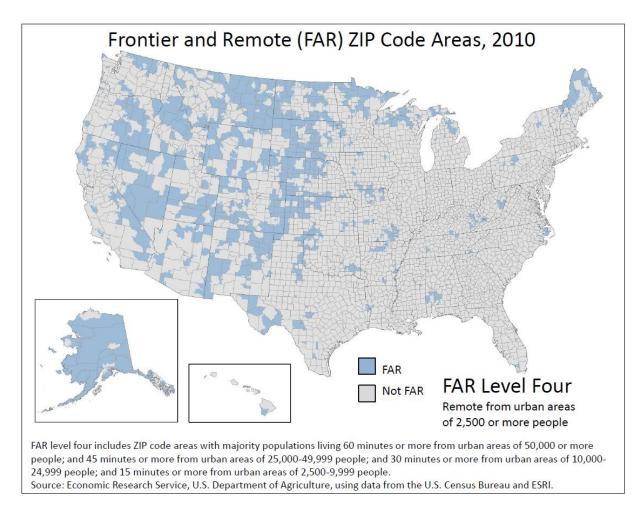












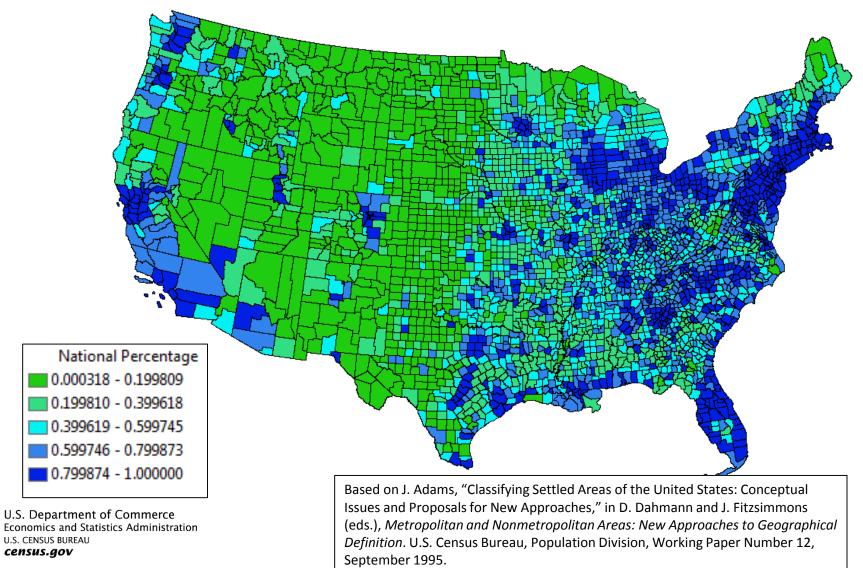


What is Rural?

Comparative Density Approach

- In this approach, counties are ranked based on population density within state as well as nationally.
- Each county is assigned a percentile score based on its population density relative to other counties in the state and other counties in the nation. An overall score can be computed by combining the state and national scores.
 - Score = (# of counties county rank from top)/# of counties
 - Overall Score = National Score x State Score
- Counties can be grouped based on similarity of scores.
- Proposed by John Adams (University of Minnesota) as part of research into new approaches to defining metropolitan areas commissioned by the Office of Management and Budget, 1995.

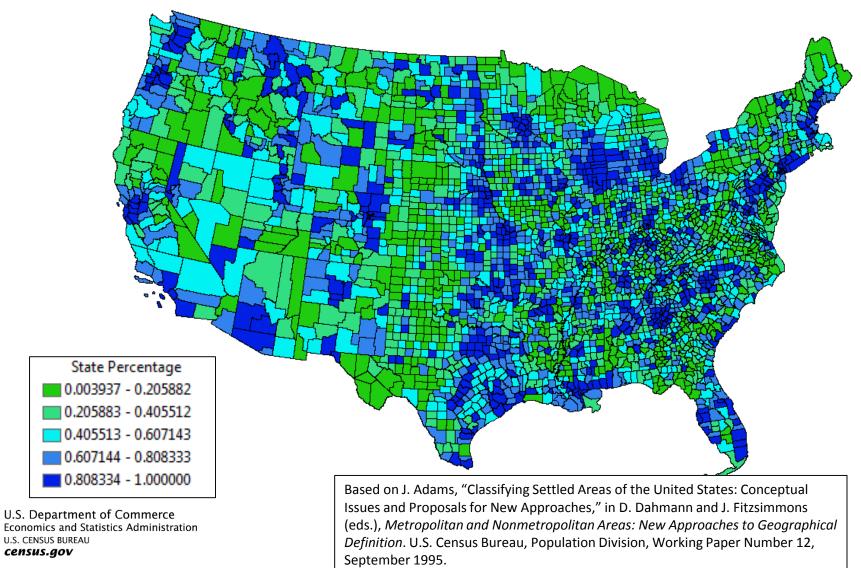
Comparative Density Approach: National Percentage Scores





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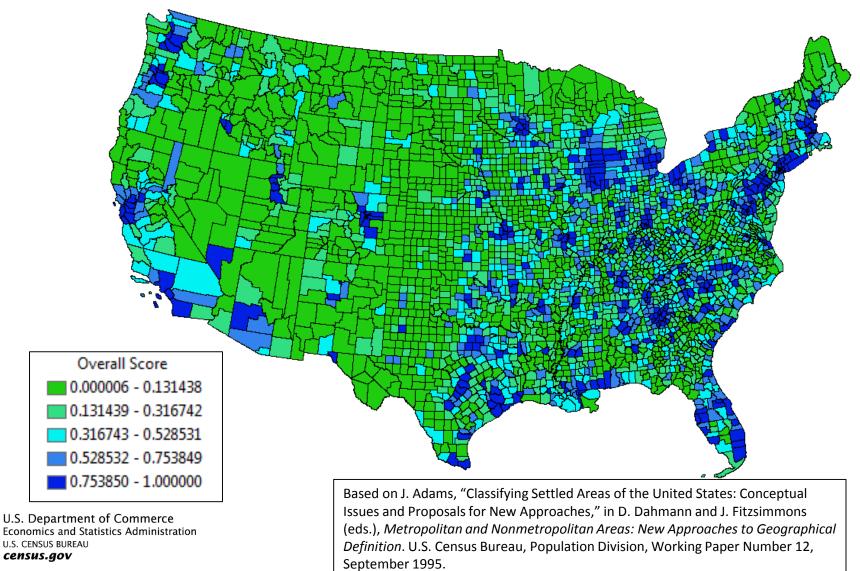
Comparative Density Approach: State Percentage Scores





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Comparative Density Approach: Overall Scores



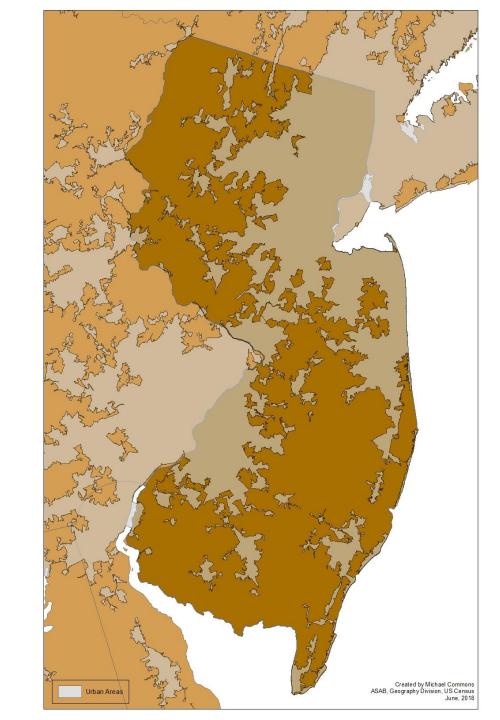


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Urban Areas

Urban Population: 8,394,909

Rural Population: 396,985



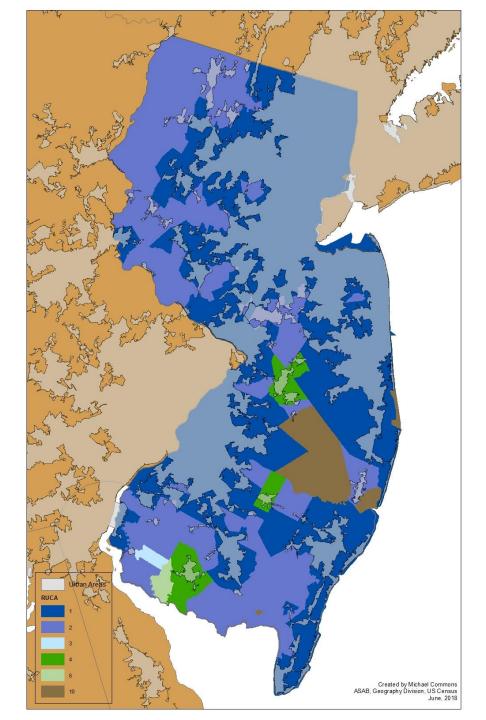
RUCA

Urban Population: 8,782,309

Rural Population: 9,585

- 1 Metropolitan area core: primary flow within an Urbanized Area (UA)
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- 3 Metropolitan area low commuting: primary flow 10% to 30% to a UA
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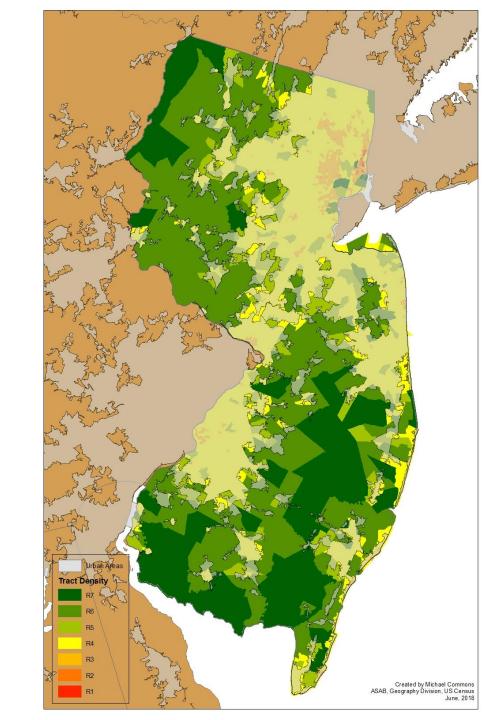




Tract Density

Urban Population: 8,398,466

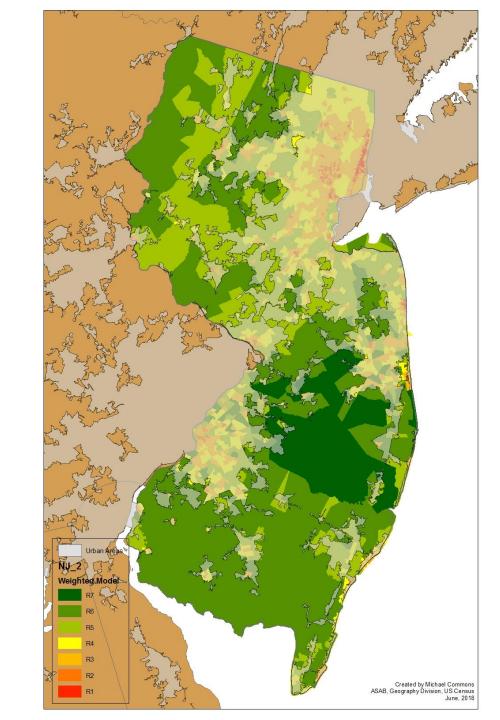
Rural Population: 393,428

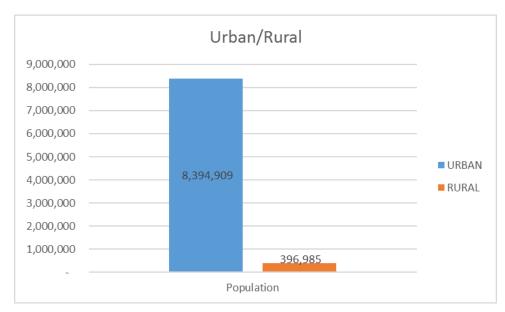


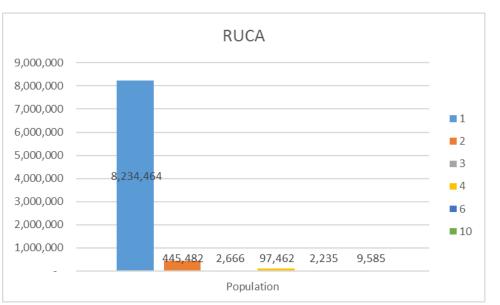
Weighted Model

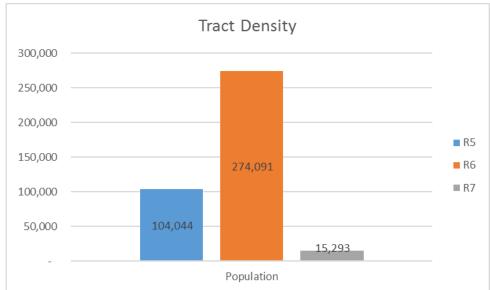
Urban Population: 8,394,909

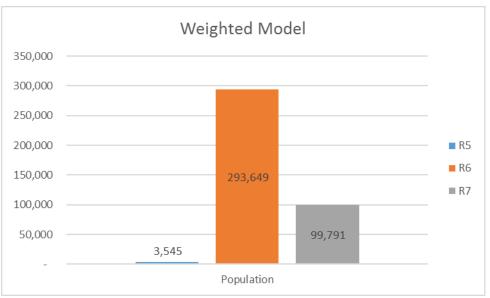
Rural Population: 396,985



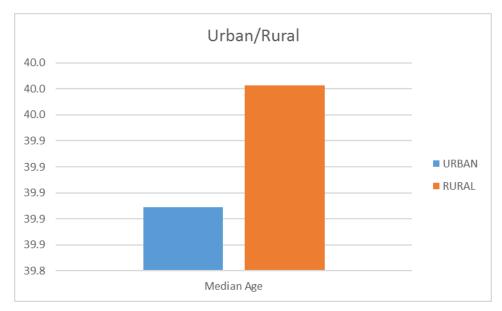


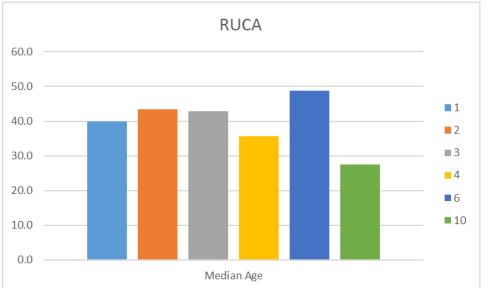


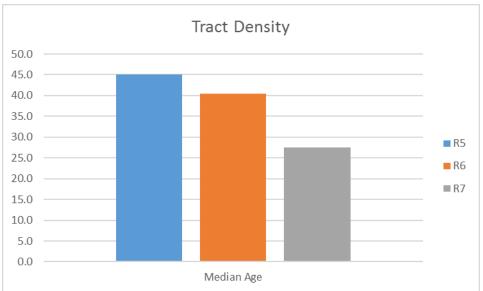


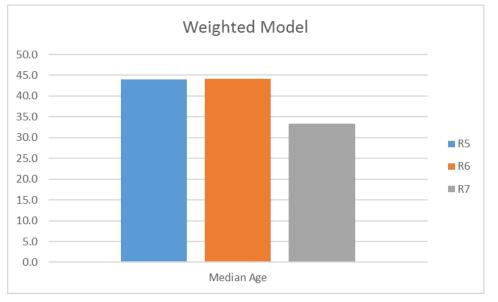




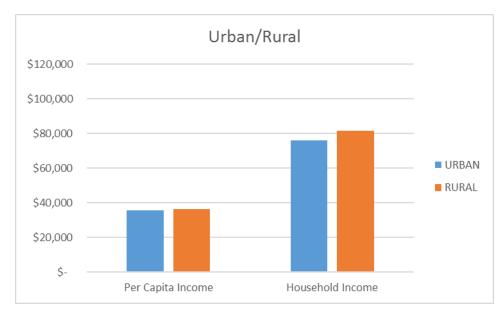


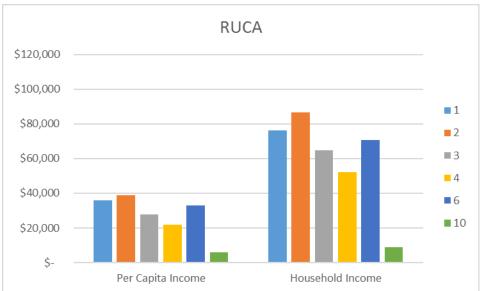


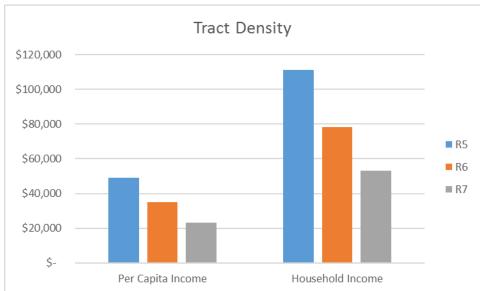


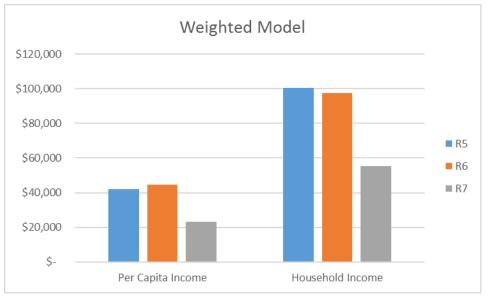






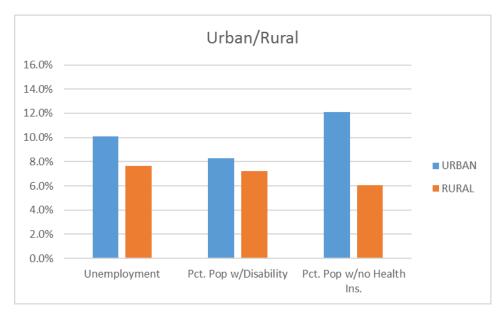


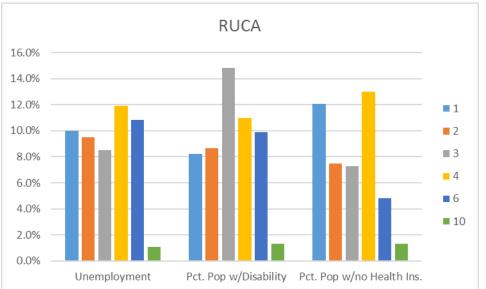


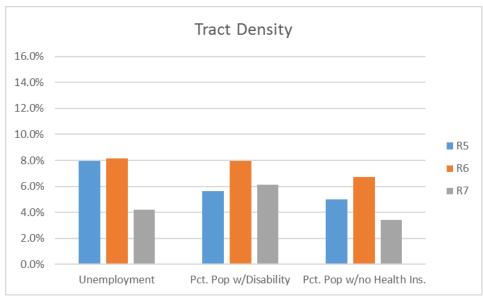


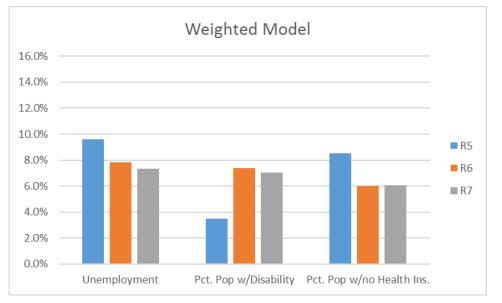


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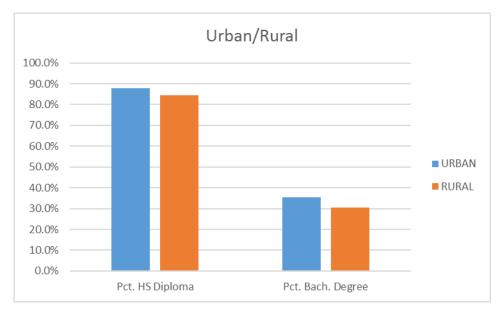


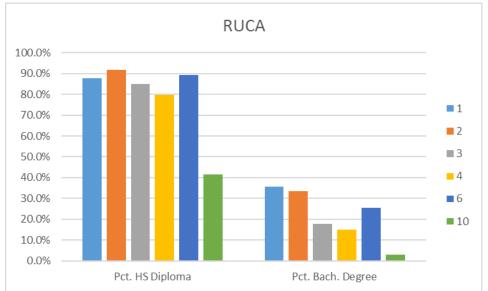


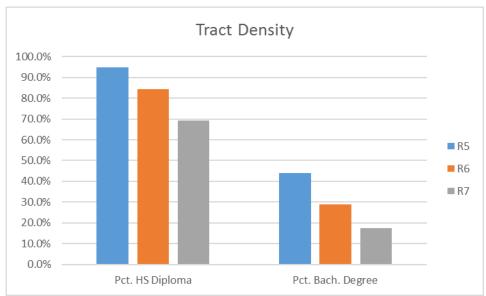


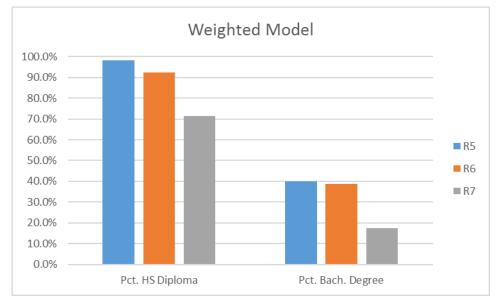


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Rural Statistical Areas

Project Goals

- Develop an objective process for identifying and grouping sub-state areas of 65,000 or more people for purposes of tabulating and disseminating ACS 1-year data.
- Focus on meeting need for annual data for rural areas.
 - However, if the classification includes all counties, then we cannot apply the term "rural."
- Process should result in areas that are comparable from one state to another.
- Use counties as building blocks.
 - Counties are recognizable geographic units.
 - Greater availability of statistical and other data at the county-level.
 - But, large counties in the West pose challenges.

Rural Statistical Areas

Proposed Criteria and Concept

Each statistical area:

- Must have a population of 65,000 or more.
- Should encompass one or more contiguous counties (or other geographic unit).
- Should, to the extent possible, encompass areas with similar levels of rurality.
- Statistical areas should be comparable from one state to another.

Rural Statistical Areas

Thoughts and Items for Consideration

- Population density should be a primary factor considered when defining areas.
- Socio-economic integration, proximity to larger urban centers, and common regional ties should be considered.
- Delineation of areas should be rural-centric.
- The classification should encompass the entirety of the United States and Puerto Rico.
- Should areas be state-based? Or, should they be allowed to cross state lines?
- Should counties be the "building blocks?"

Thank you!

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