

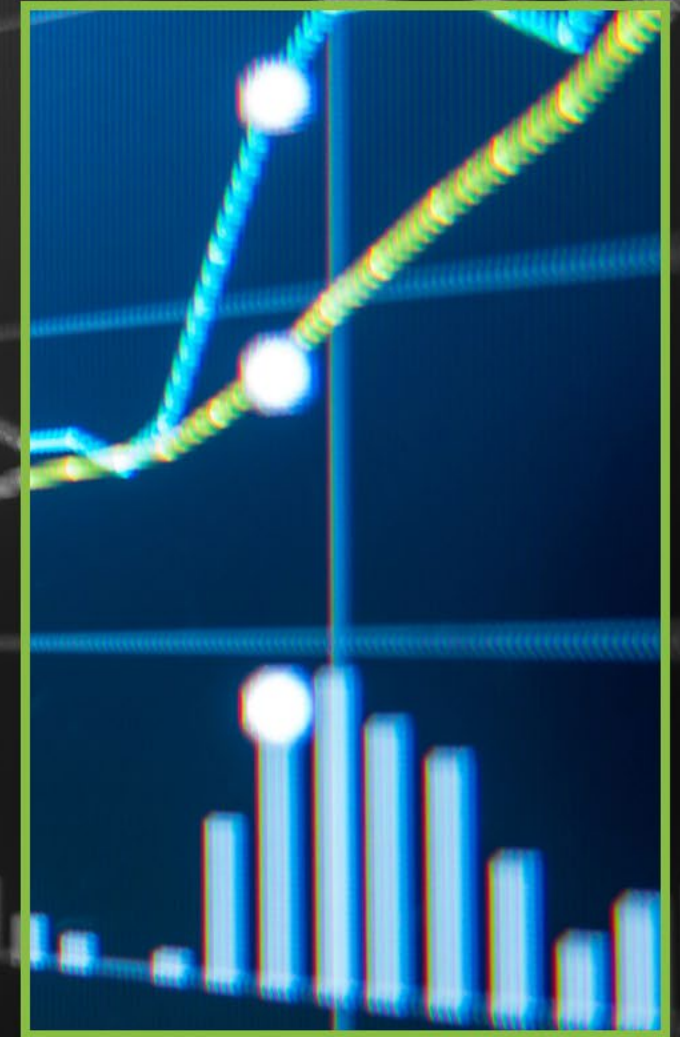
# Defining Rural America

Alexander Hermann, Keith Wiley, Zoraima Diaz-Pineda,  
Jaya Dey



# In Search of Rural: How Varying Definitions Shape Housing Research

Alexander Hermann and Whitney Airgood-Obrycki  
Harvard University



#RuralResearchSymposium



# Roadmap

- Introduction, data, and methods
- Defining rural areas
- Mapping rural areas
- Key findings
  - Size of the rural housing market
  - Race/ethnicity
  - Demographics
  - Rural housing stock
- Future work and conclusions



# Introduction

- Researching housing challenges and characteristics in rural areas is often complicated by the lack of “good data”
- Researchers often define rural based on practical considerations like data availability and geography
- We hope to show: the choice of rural definition matters significantly and requires careful consideration



# Data and Methods

- Replicate common definitions of rural at the county, zip code, census tract, and urban area/cluster geographies
- Use 2019 American Community Survey 5-Year Estimates to show how population, housing unit, and household counts, as well as other common housing, demographic, and economic characteristics vary depending on the rural definition used
  - What do these different definitions of rural tell us about the size of the rural housing market?
  - What do they tell us about the scope and extent of rural housing, demographic, and economic challenges and realities?



# Common Ways to Define Rural

- “Not urban”
- Population
- Housing and population density
- Accessibility to cities and economic interdependence
- Commuting times and adjacency
- Perceptions
- Typologies of rural



# Four Categories

- Residual
- Character
- Perceptual
- Policy



# Rural Definitions

- **Residual**

- Office of Management and Budget (OMB)
- Census Urban and Rural Classification (Census)

- **Character**

- Housing Assistance Council (HAC)
- USDA Rural-Urban Commuting Area (RUCA)
- USDA Rural-Urban Continuum Codes (RUCC)

- **Perceptual**

- HUD Urban Perceptions Small Area Index (HUD)
- Trulia Perception-Based Indicator (Trulia)

- **Policy**

- USDA Eligibility (USDA)
- FHFA Duty to Serve (FHFA)





# Rural Definitions

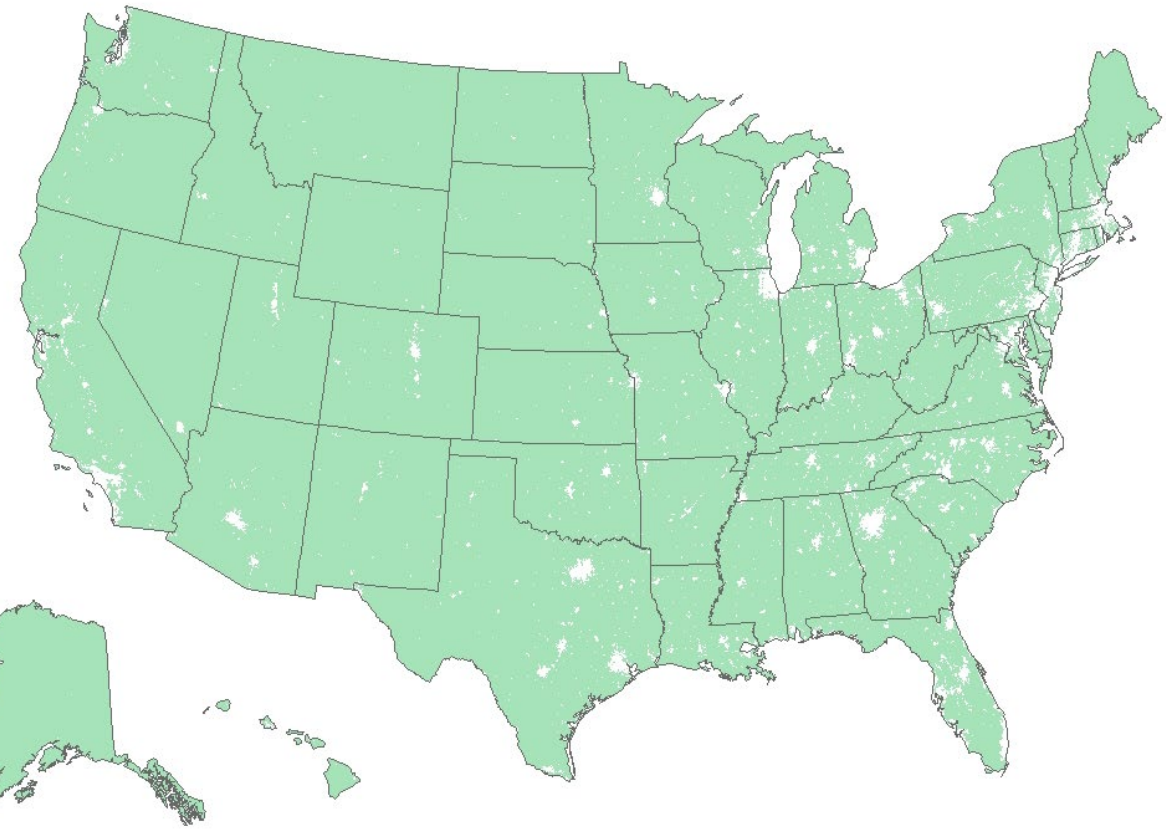
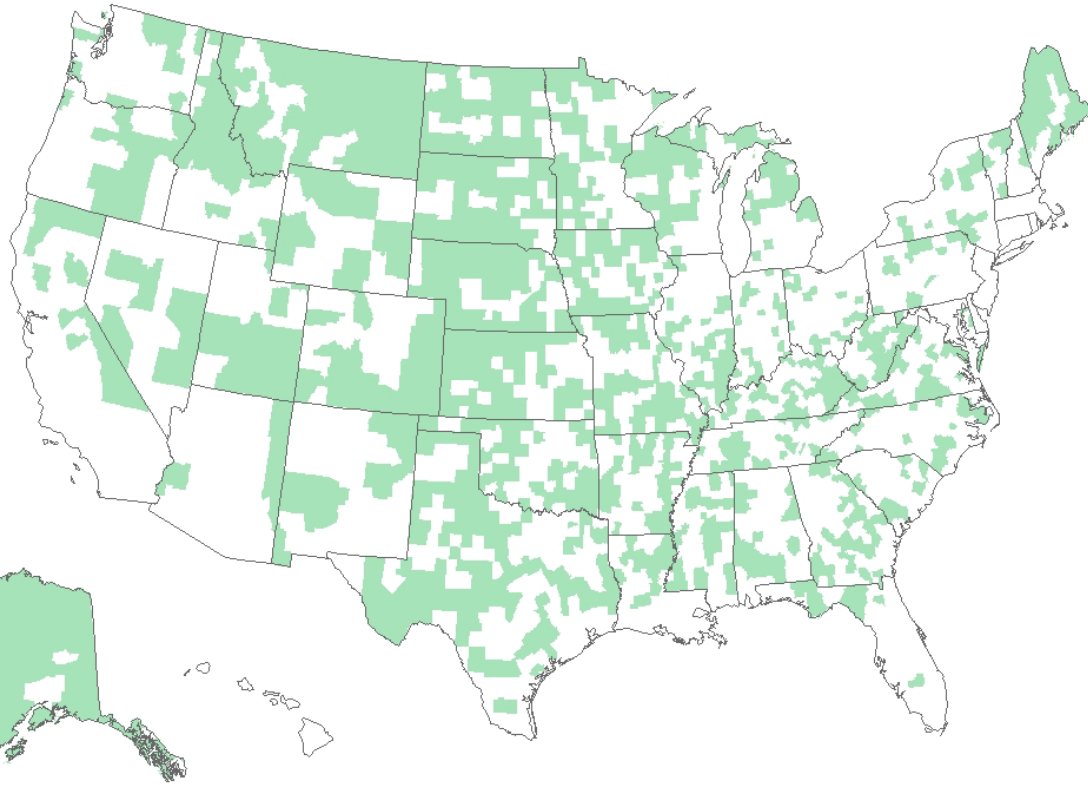
Definition	Year	Updates	Geo.	Defining Rural
<b>OMB</b>	2018	Periodic	County	Define MSAs that have at least one urbanized area of 50,000 people or more and adjacent territory with a high degree of integration. Everything else is categorized as non-metropolitan, a common proxy for rural.
<b>Census</b>	2010	Decennial	UA/UC	Define UAs and UCs by population density and adjacency. Everything else is categorized as rural.
<b>HAC</b>	2019	One-time	Tract	Under 16 housing units per square mile; small-town tracts also have a commuting component
<b>RUCA</b>	2010	Decennial	Tract	Primary commuting flows to a tract outside an UA or UC
<b>RUCC</b>	2013	Decennial	County	In non-metro counties, an urban population with under 2,500 people
<b>HUD</b>	2017	One-time	Tract	AHS (2017) asked respondents to define their neighborhood as urban, suburban, or rural; neighborhood characteristics associated with these perceptions were then used to predict the likelihood any given tract would be seen as rural
<b>Trulia</b>	2015	One-time	Zip	Trulia asked respondents to define their neighborhood as urban, suburban, or rural; neighborhood characteristics associated with these perceptions were then used to predict the likelihood of any given tract would be seen as rural
<b>FHFA</b>	2021	Annual	Tract	All tracts outside MSAs; tracts within MSAs that are outside a UA and have under 64 housing units per square mile
<b>USDA</b>	2021	Annual	Tract	Determined by population, MSA status, mortgage credit availability, and previous rural designation



# Residual

OMB

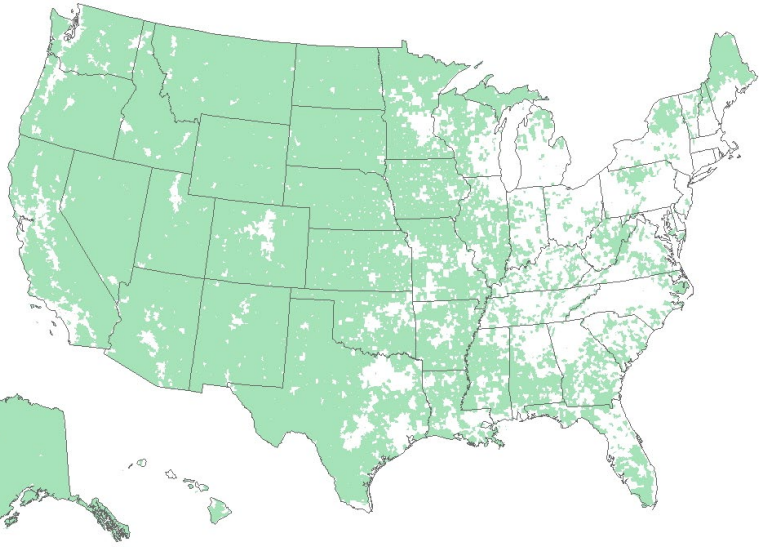
Census



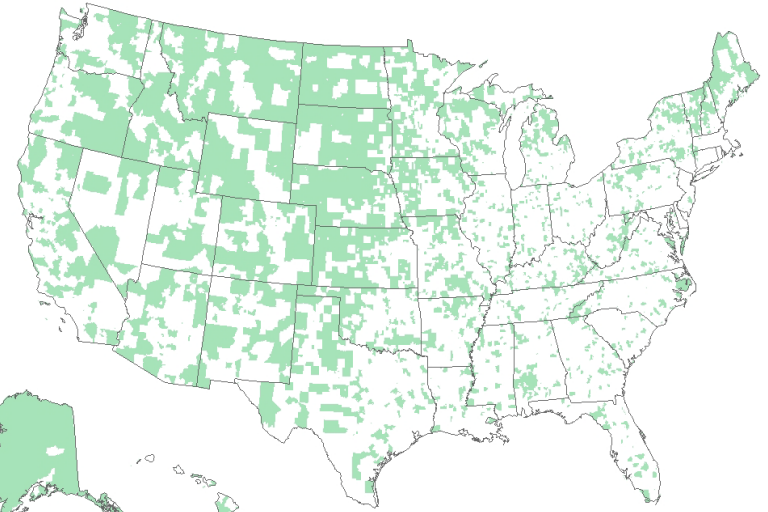


# Character

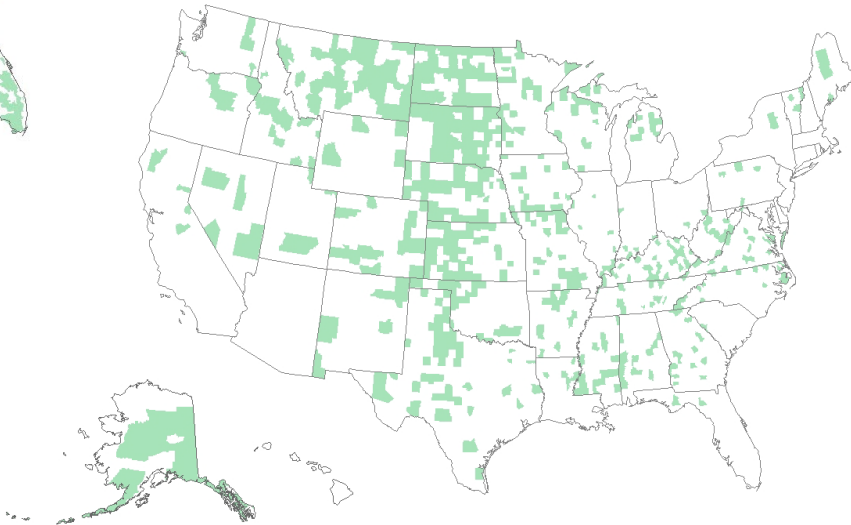
HAC



RUCA



RUCC

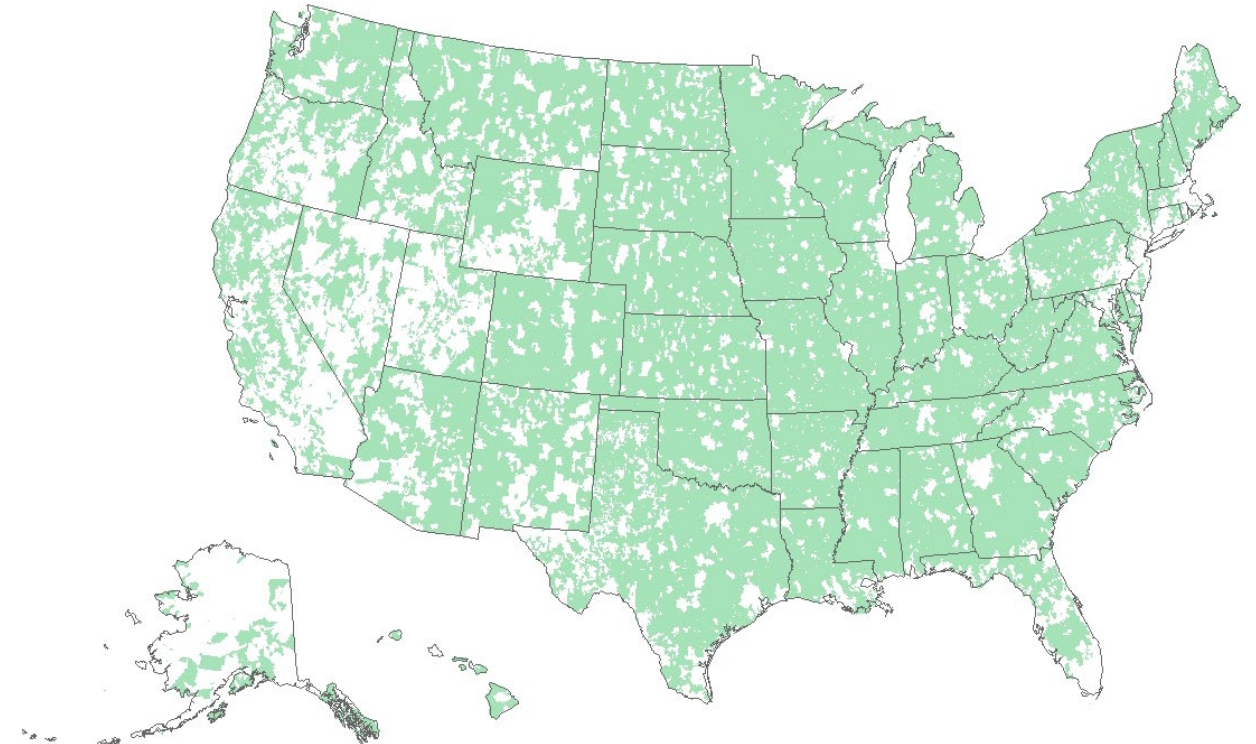
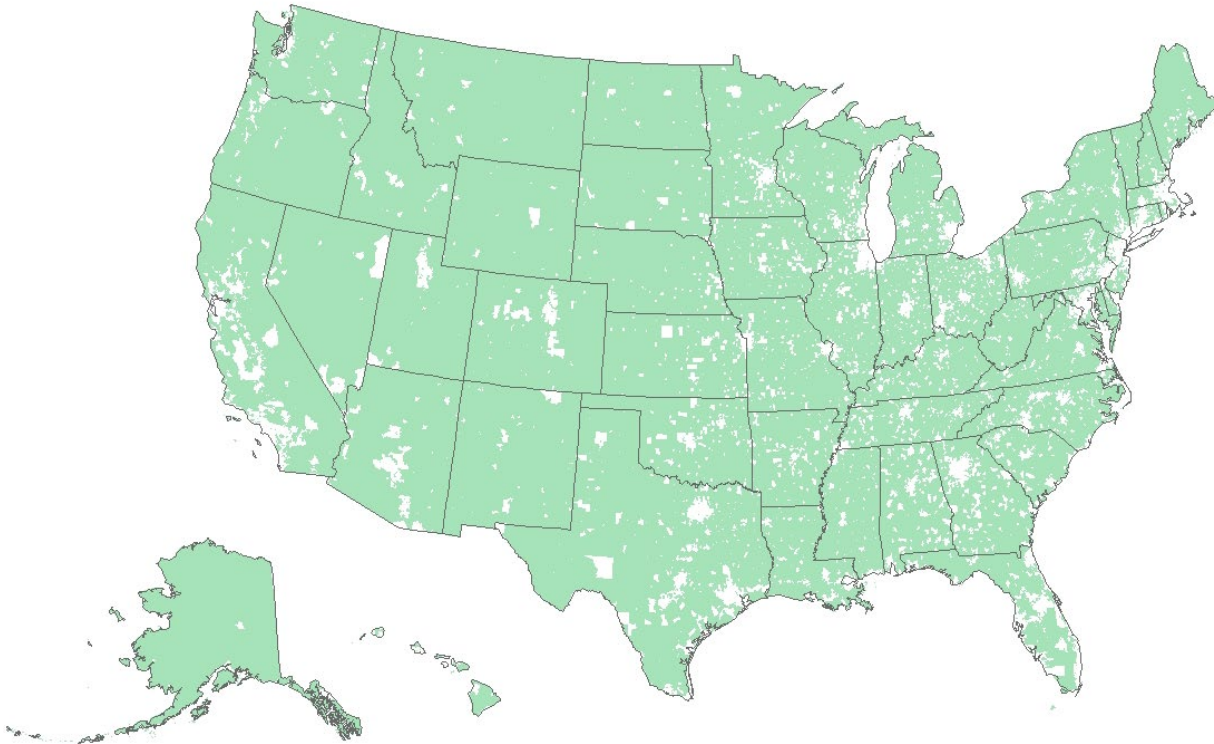




# Perceptual

HUD

Trulia

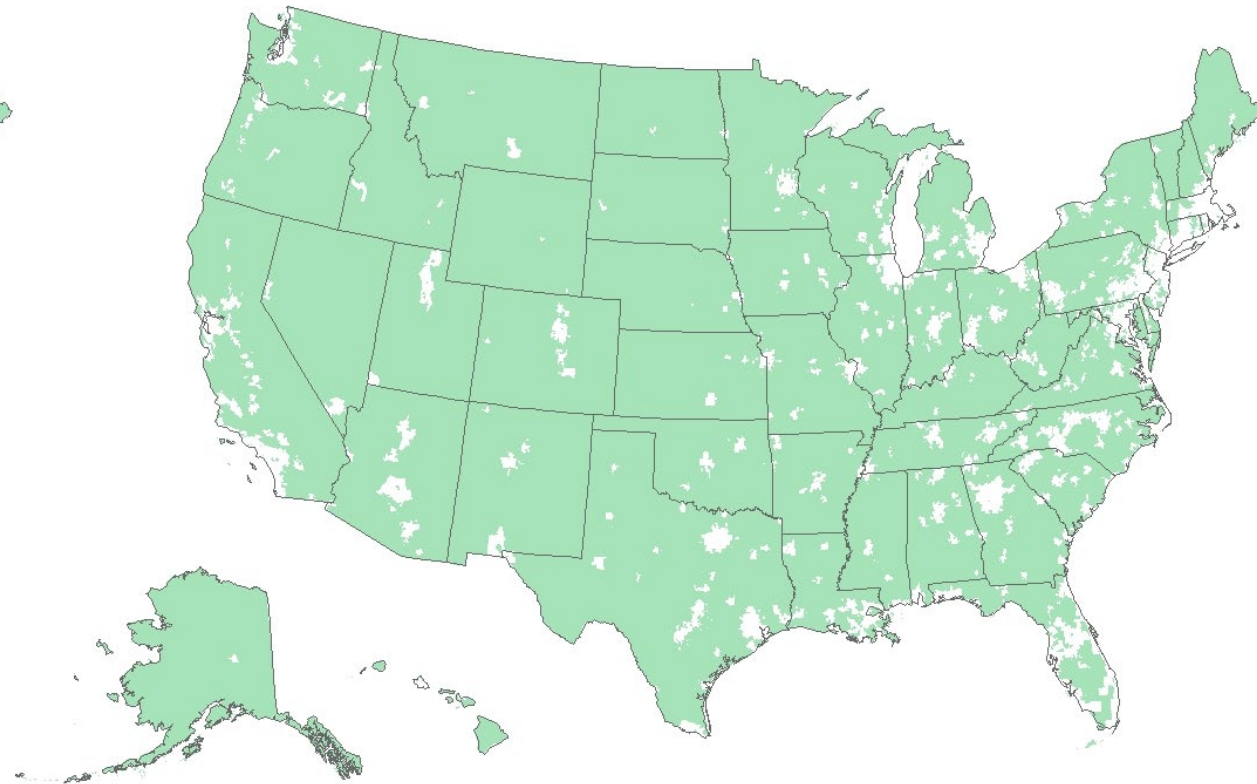
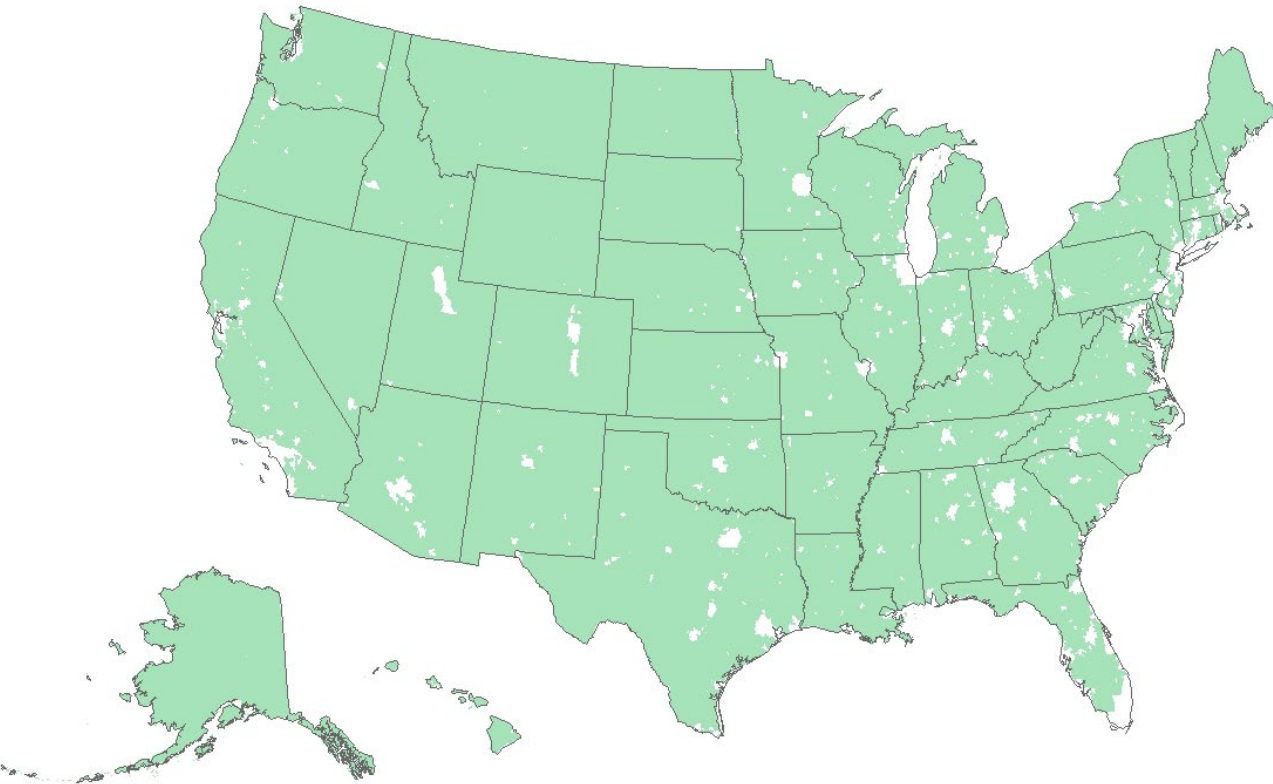




# Policy

USDA Eligibility

FHFA





# Key Findings

- Choice of rural definition matters greatly for the size of the rural housing market
- For the most part, rural challenges are directionally similar regardless of definition used
  - But even then, magnitudes can still vary considerably
- In other cases, choice of definition matters directionally for rural challenges and realities



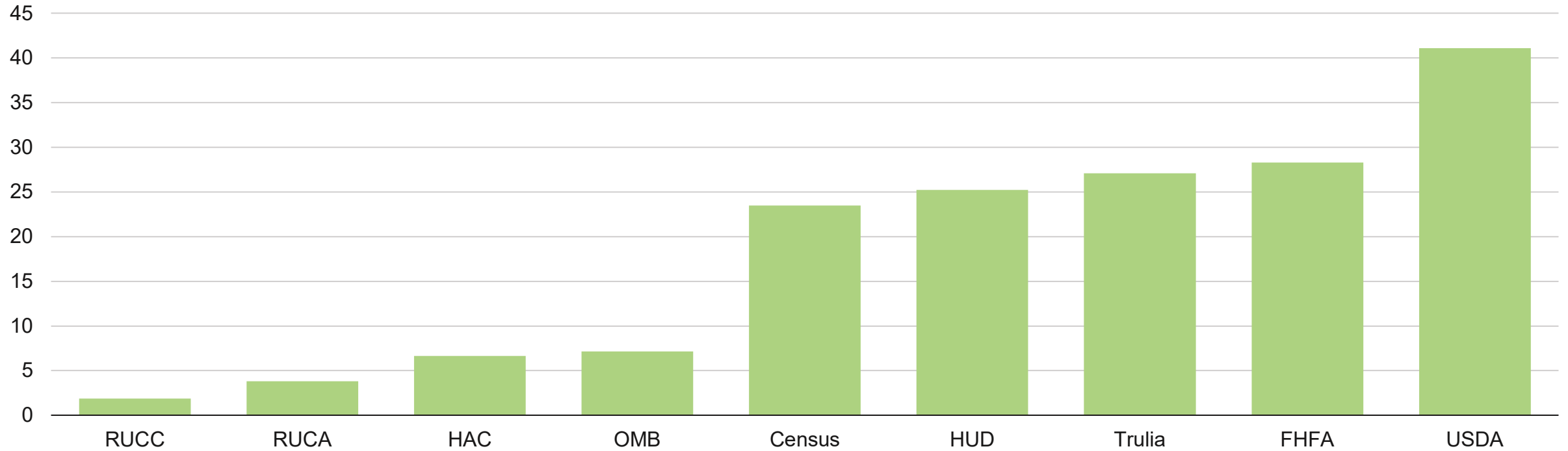
# Size of the Rural Housing Market

	Residual		Character			Perceptual		Policy		US Overall	Summary		
	OMB	Census	HAC	RUCA	RUCC	HUD	Trulia	FHFA	USDA		Min	Max	Avg
<b>Millions</b>													
Land Area (Sq. miles)	1.8	3.4	2.8	1.7	0.9	3.2	2.3	3.3	3.4		0.9	3.4	2.5
Housing Units	9.6	29.2	8.8	5.5	2.7	31.0	33.3	35.1	49.3	137.4	2.7	49.3	22.7
Households	7.2	23.5	6.7	3.8	1.9	25.2	27.1	28.3	41.1	120.8	1.9	41.1	18.3
Total Population	18.2	62.2	18.3	9.7	4.7	67.0	71.5	74.2	109.5	324.7	4.7	109.5	48.4
<b>Per Sq. Mile</b>													
Population Density	10	18	7	6	5	21	31	22	32	92	5	32	17
Housing Unit Density	5	9	3	3	3	10	14	11	14	39	3	14	8



# Household Counts Vary Considerably by Definition

Households (Millions)

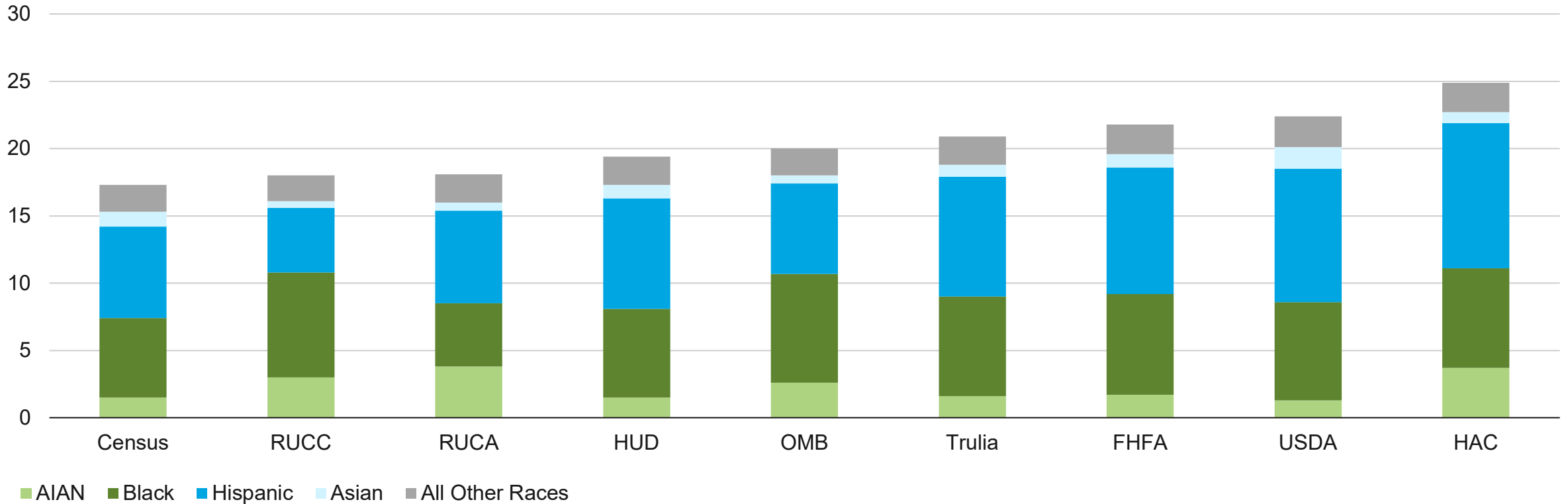






# The Share of the Population Who Are People of Color Varies Considerably...

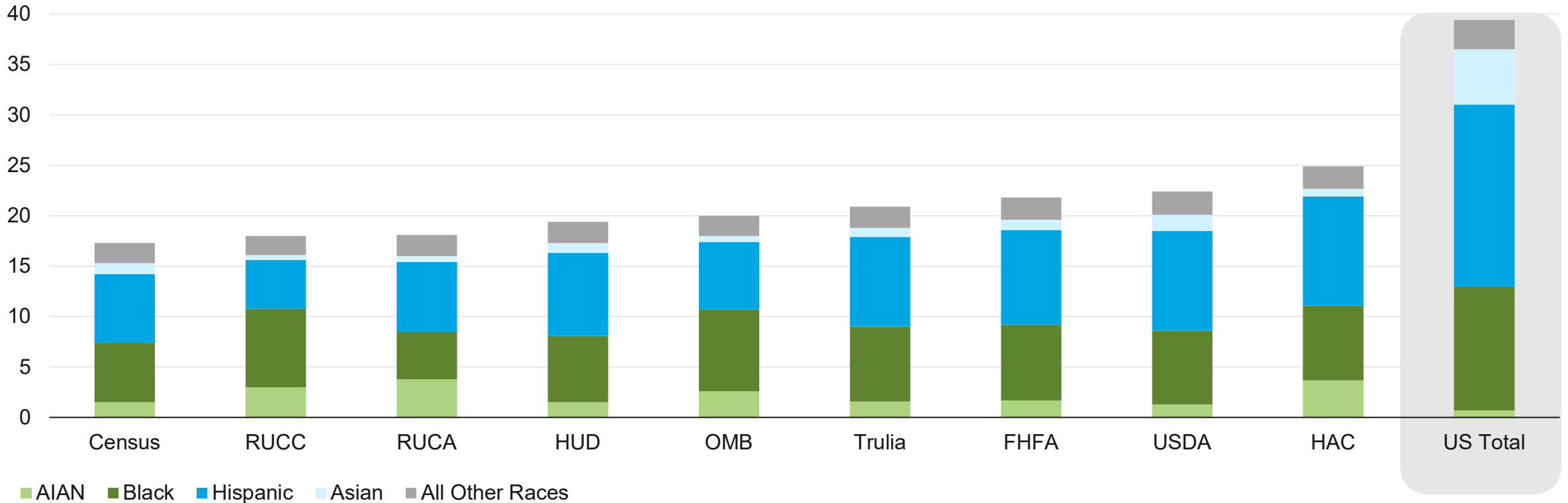
### Share People of Color (Percent)





# ... But in All Cases, Rural Areas are Less Diverse than the Country Overall

### Share People of Color (Percent)





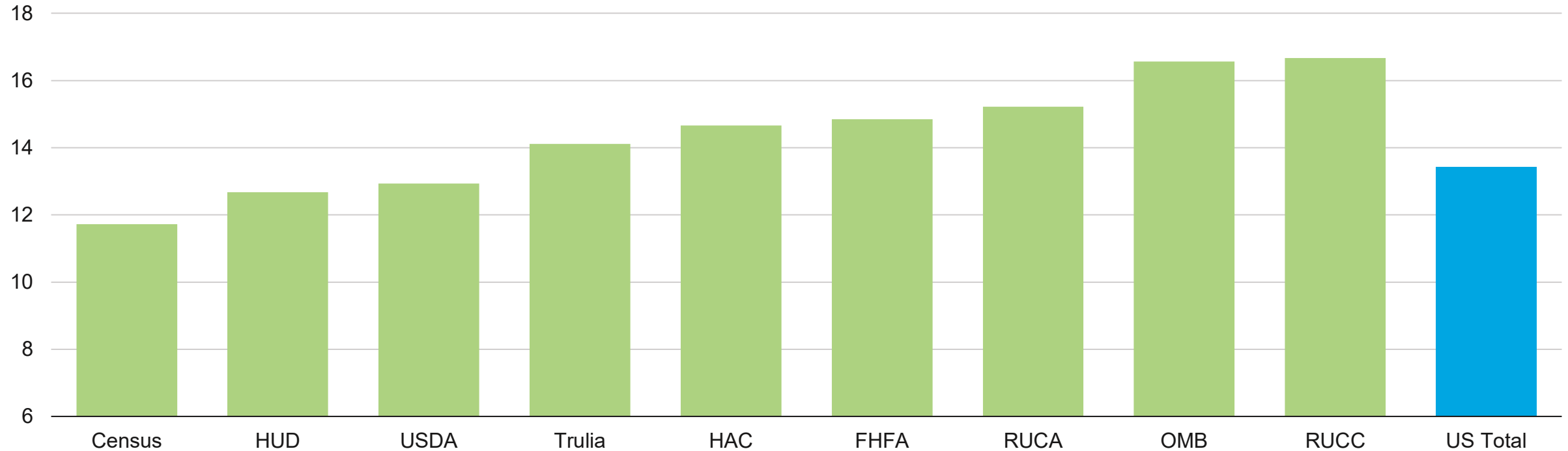
# Rural Demographic Realities

	Residual		Character			Perceptual		Policy		US Overall	Summary		
	OMB	Census	HAC	RUCA	RUCC	HUD	Trulia	FHFA	USDA		Min	Max	Avg
<b>Percent</b>													
Age 65 and Older	20.4	18.9	18.7	21.3	21.9	18.6	18.4	18.5	17.9	15.6	17.9	21.9	19.4
Poverty Rate	16.6	11.7	14.7	15.2	16.7	12.7	14.1	14.8	12.9	13.4	11.7	16.7	14.4
Bachelor's Degree	17.8	23.5	18.2	19.4	17.9	22.1	20.9	20.8	24.4	32.1	17.8	24.4	20.6
<b>Dollars</b>													
Median Household Income	47,400		52,905	50,549	46,052	57,717	53,350	52,675	57,668	61,705	46,052	57,717	52,290



# Depending on Rural Definition, Poverty Rates Can Be Either Below or Above the Overall US Rate

Poverty Rate (Percent)





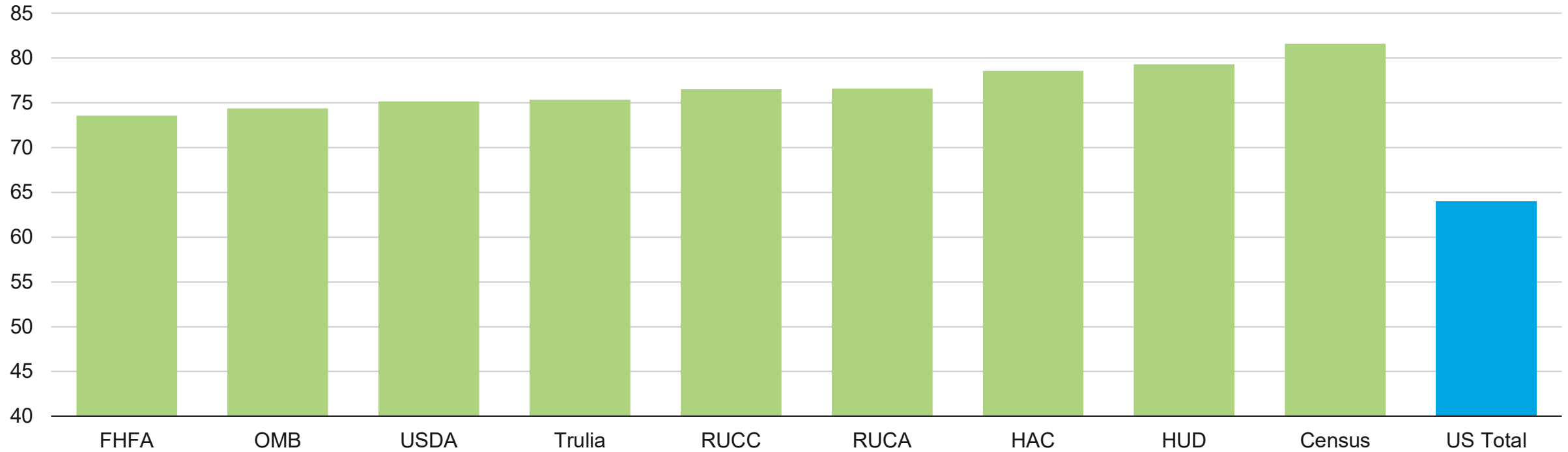
# Rural Housing Stock

	Residual		Character			Perceptual		Policy		US Overall	Summary		
	OMB	Census	HAC	RUCA	RUCC	HUD	Trulia	FHFA	USDA		Min	Max	Avg
<b>Percent</b>													
Homeownership Rate	74.4	81.6	78.6	76.6	76.5	79.3	75.4	73.6	75.2	64.0	73.6	81.6	76.8
Share Single-Family Units	75.3	78.6	76.8	78.2	76.5	77.1	75.6	74.7	76.1	67.4	74.7	78.6	76.5
Share Mobile Homes Share Structures Built Before 1990	15.9	16.3	18.2	14.3	16.9	16.5	15.0	14.3	13.0	6.2	13.0	18.2	15.6
Share without Internet Access	68.5	58.3	64.2	68.9	67.6	60.0	63.0	65.0	60.5	66.6	58.3	68.9	64.0
	32.7	23.3	31.5	31.0	35.3	23.7	25.6	26.0	21.6	16.8	21.6	35.3	27.9
<b>Dollars</b>													
Median Home Value	113,400		127,000	124,000	106,700	156,600	143,100	142,000	162,400	201,200	106,700	162,400	134,400
Median Gross Rent	663		697	670	622	773	735	736	789	1,078	622	789	711



# Homeownership Rates Vary Considerably with Rural Definition, but are All Above the National Rate

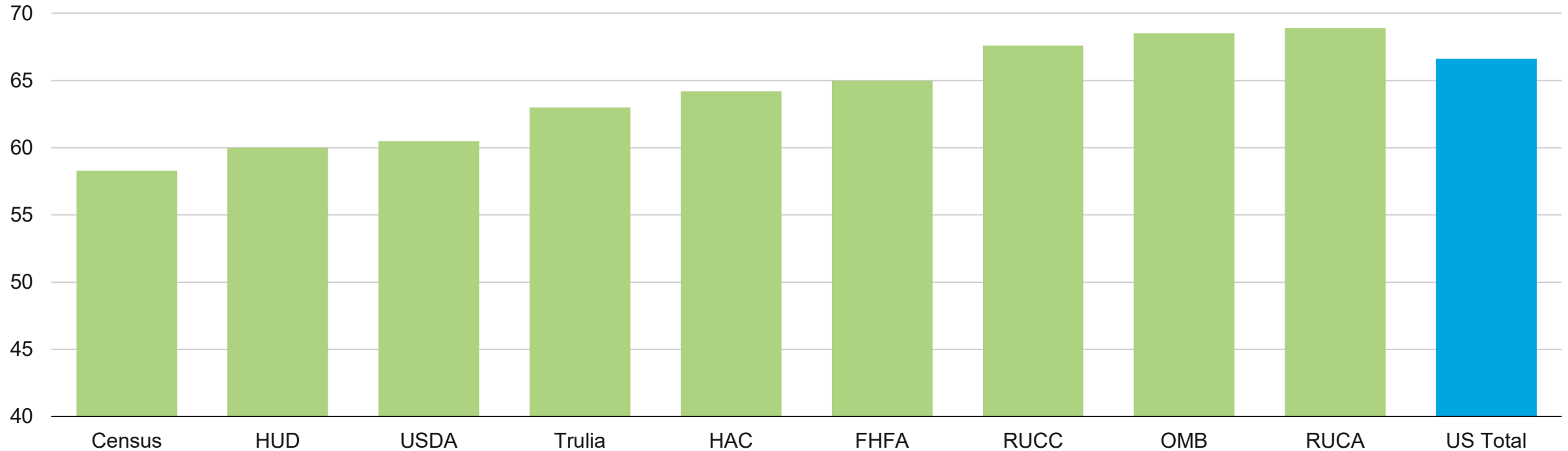
Homeownership Rate (Percent)





# Extent of Older Housing Varies Considerably Depending on Rural Definition Chosen

Share of Housing Units Built Before 1990 (Percent)





# Additional Research

- Areas of future inquiry
  - Housing costs/affordability
  - Racial equity
  - Commuting times
  - Measures of spatial isolation
- Regional and state differences
- Further explore commonalities and differences across measures
- Policy implications





# Preliminary Conclusions

- No single definition of rural is “correct,” but choice matters significantly
- For the most part, key rural challenges are directionally similar regardless of definition used but even then magnitudes can vary greatly. However, this isn’t always the case either
- Perceptual definitions tend to be more broadly encompassing; use of narrower definitions might seem exclusionary as a result
- Defining rural has implications for how resources are distributed and our understanding of the severity of rural housing challenges

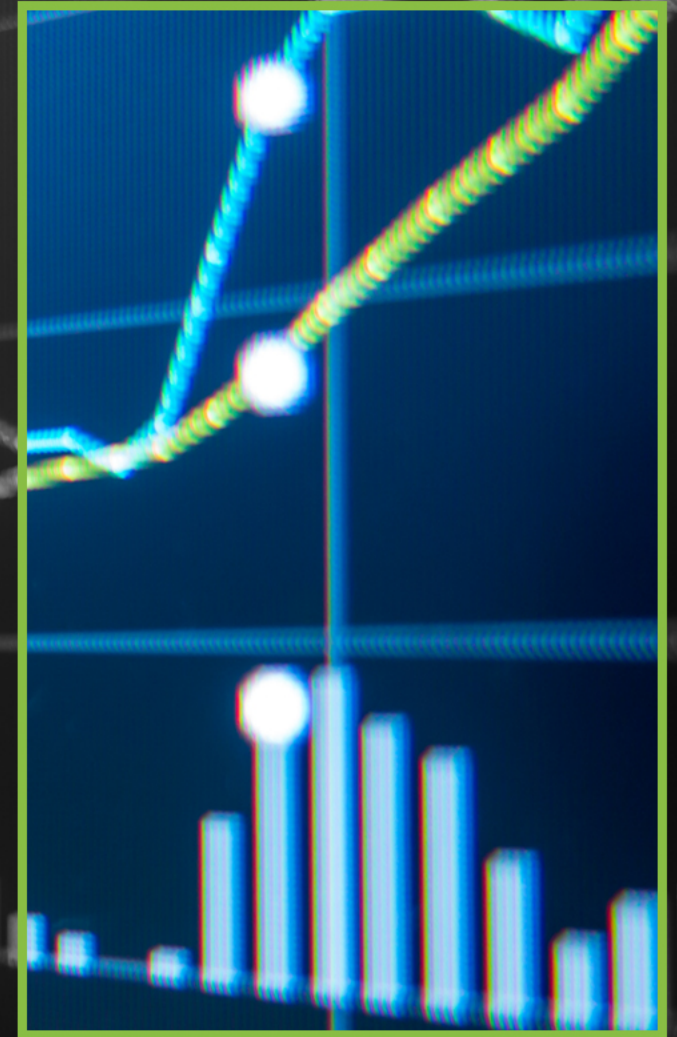


**Thank  
You**

# Concentrated Poverty in the Rural Southeast

Keith Wiley

Housing Assistance Council



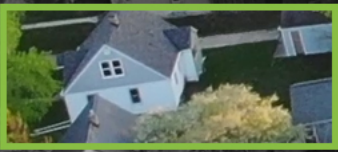
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...concentrated poverty exacts a grave day-to-day toll on the people who continue to live in its midst and threatens to perpetuate disadvantage across generations.

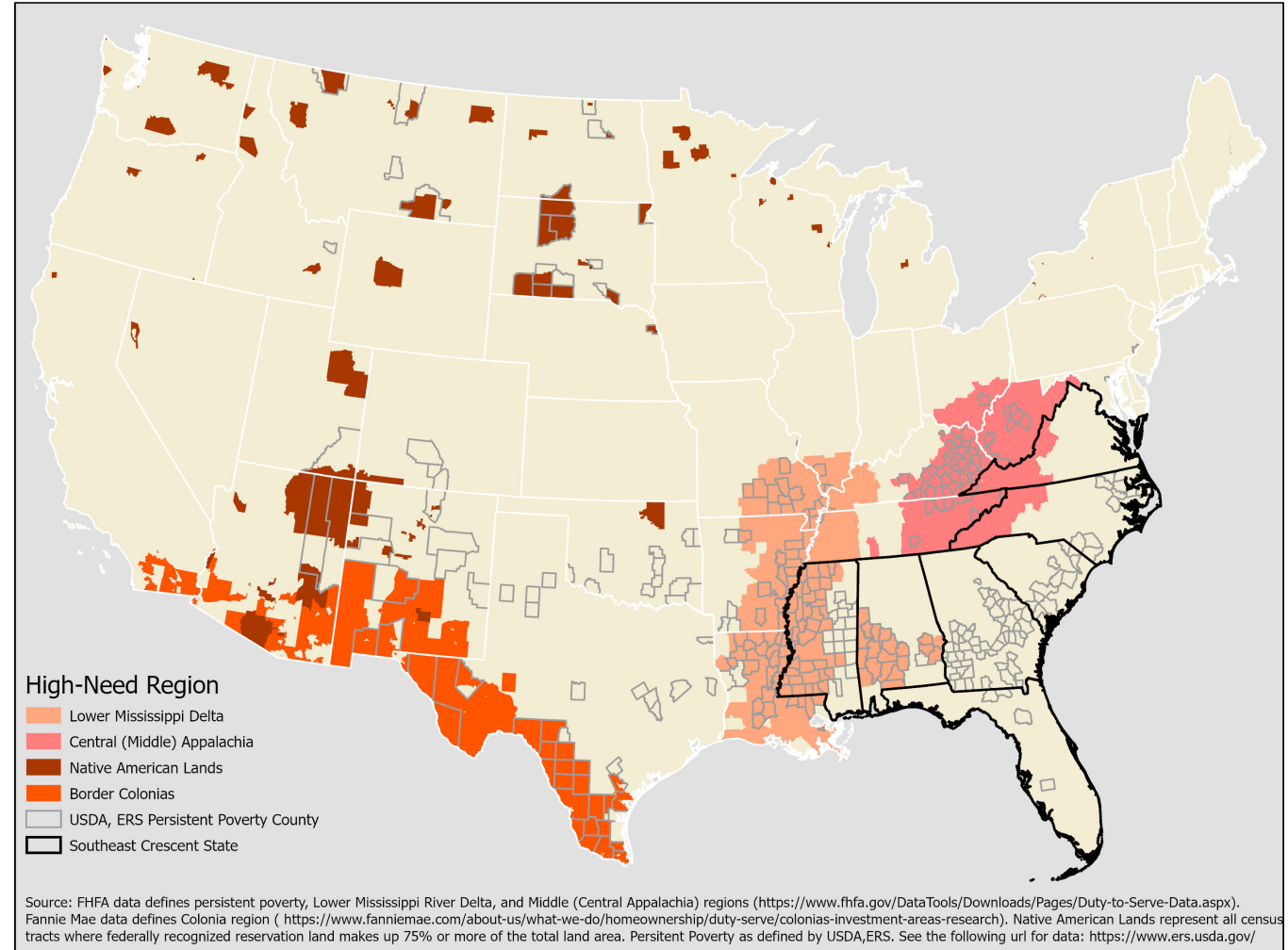
Quote from page vii of 2008 Brookings Institute/Federal Reserve Bank joint report entitled *"The Enduring Challenge of Concentrated Poverty in America. Case Studies from Communities Across the US."*





# Persistent Poverty Counties

## High-Need Regions & Persistent Poverty

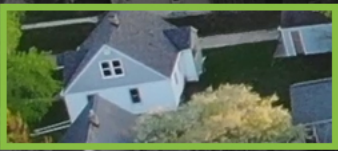


- Total – 353
- Outside metropolitan area – 298 (84%)
- High need regions – 213 (60%)
- Southeast Crescent – 83 (24%)



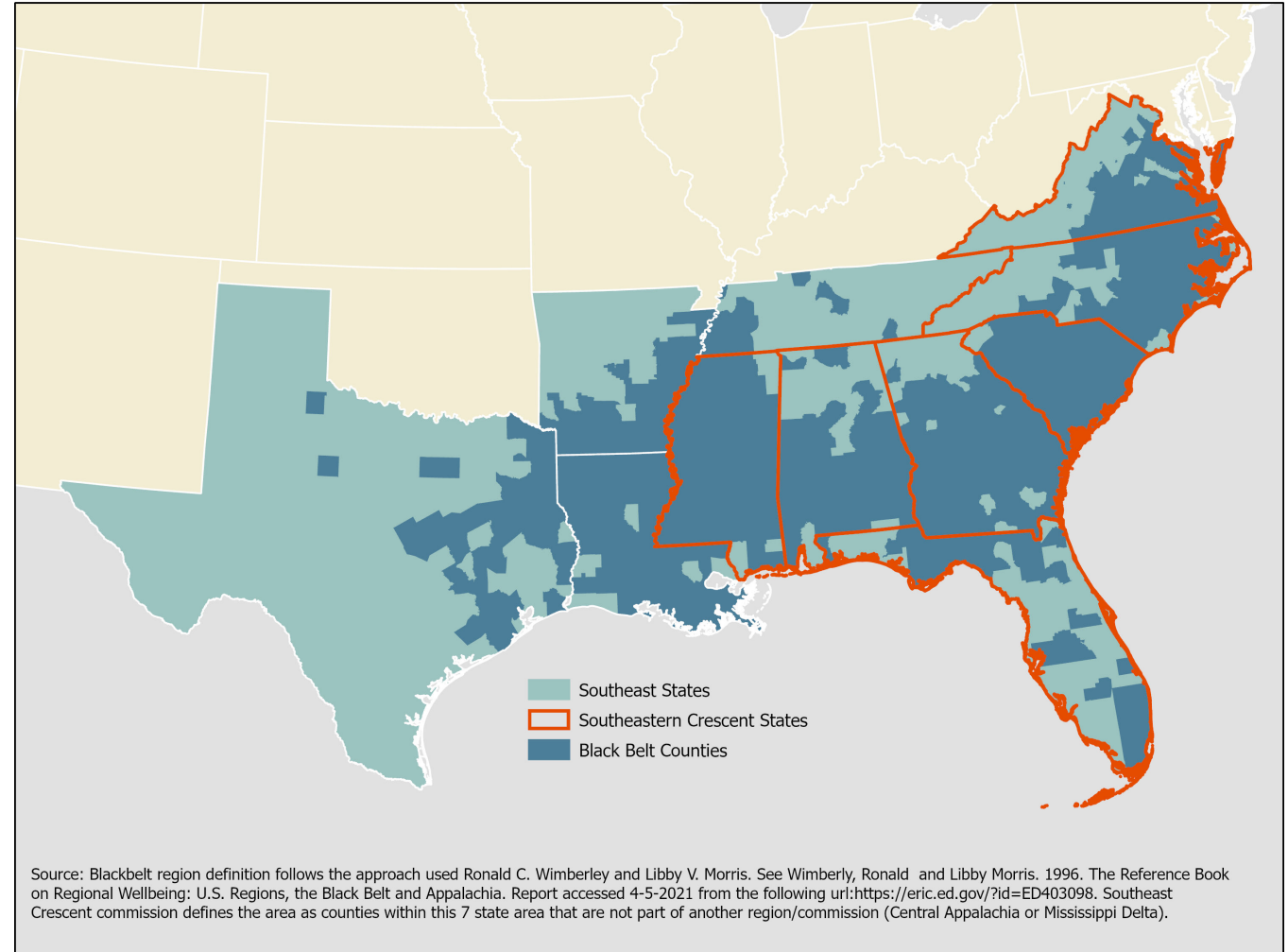
# Background

- Research defines as the Black Belt, counties in the South (Virginia to Texas), with an above average percent Black or African American population.
- In 2000 Congress authorized the Delta Regional Authority (Lower Mississippi Delta Region).
- In 2008 Congress created the Southeast Crescent Regional Commission.
- The Southeast Crescent region includes counties in Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina, and Virginia.



# Black Belt Region

## Black Belt/Southeast Crescent Region



- Total – 592
- Persistent Poverty – 189 (32%)
- Lower Mississippi Delta – 150 (25%)
- Entire Appalachia Region – 54 (9%)
- Central Appalachia Region – 5 (1%)



# Defining High Poverty Southeast

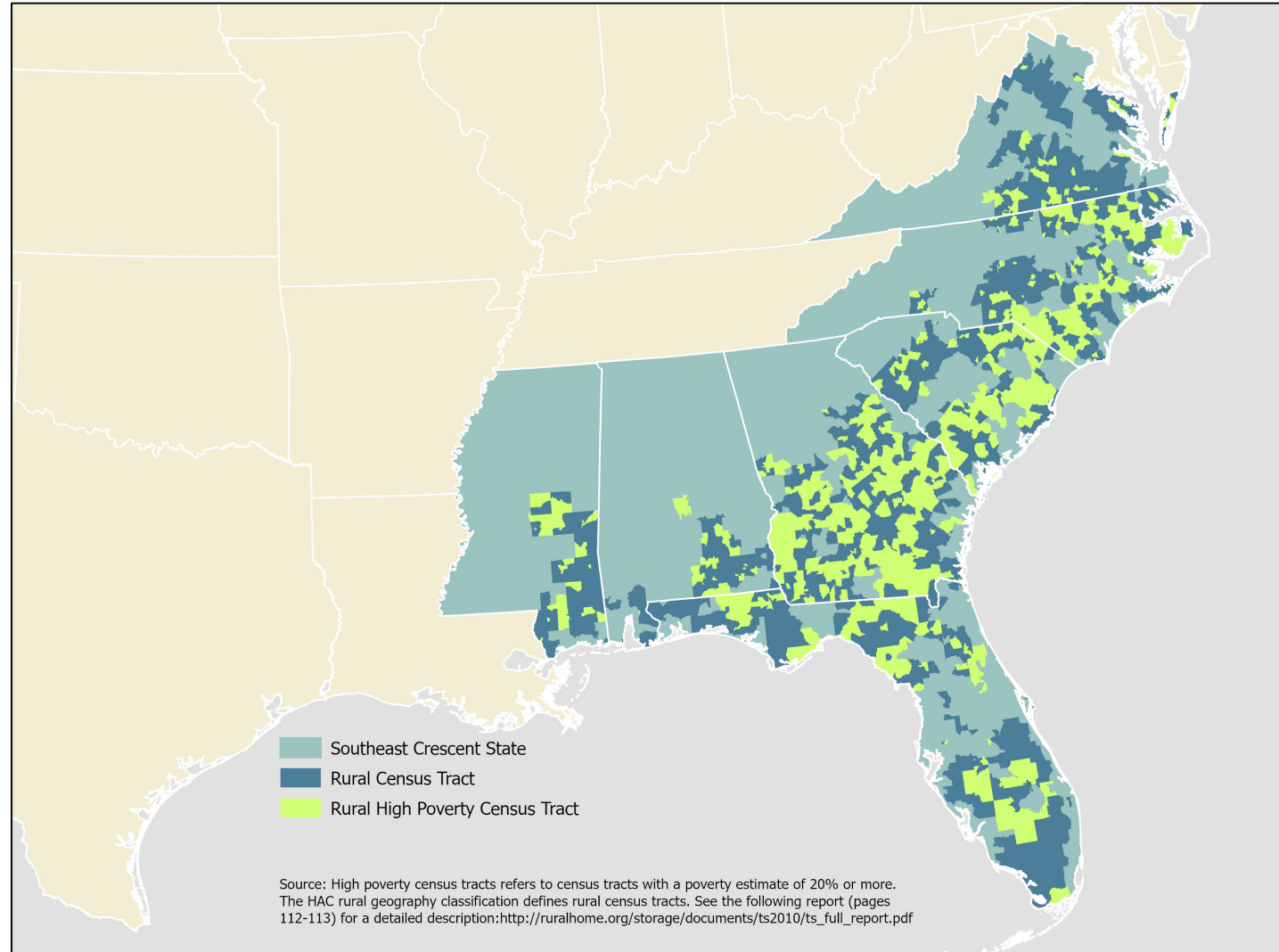
- Use framework from Southeast Crescent Regional Commission
  - Seven state region of Southeast
  - Exclude counties already part of the Appalachian Regional Commission or Delta Authority service area
- Focus on rural geography and high poverty areas
  - Use census tract geography
  - Rurality measured based on housing unit density and commuting patterns
  - High poverty defined as census tracts with poverty rates of 20% or more





## Rural Southeast

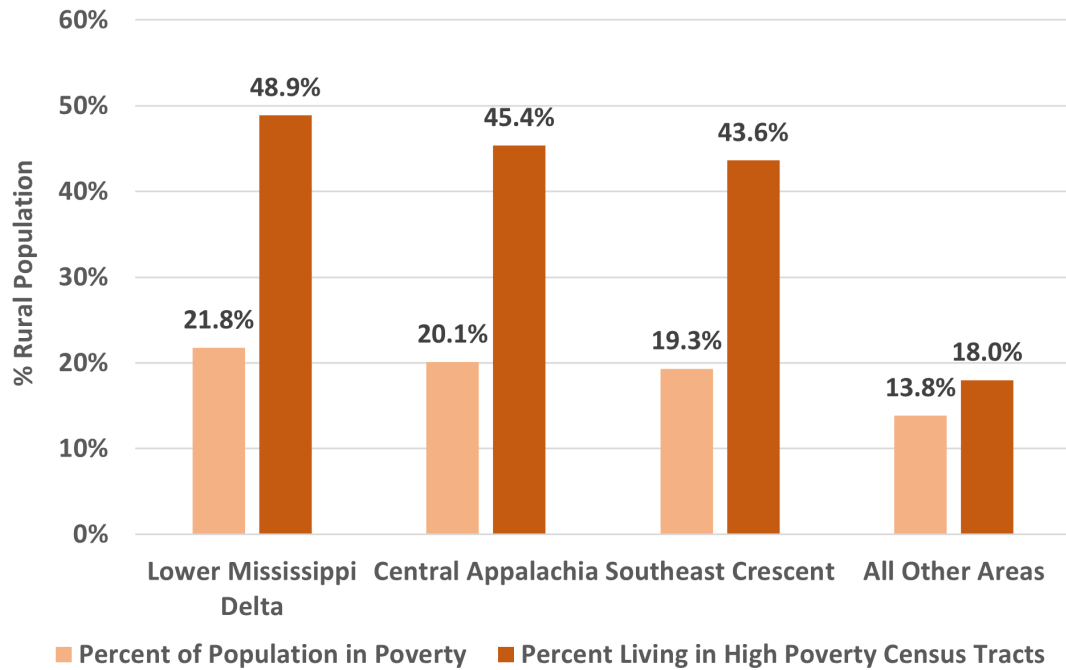
High  
Poverty  
Southeast





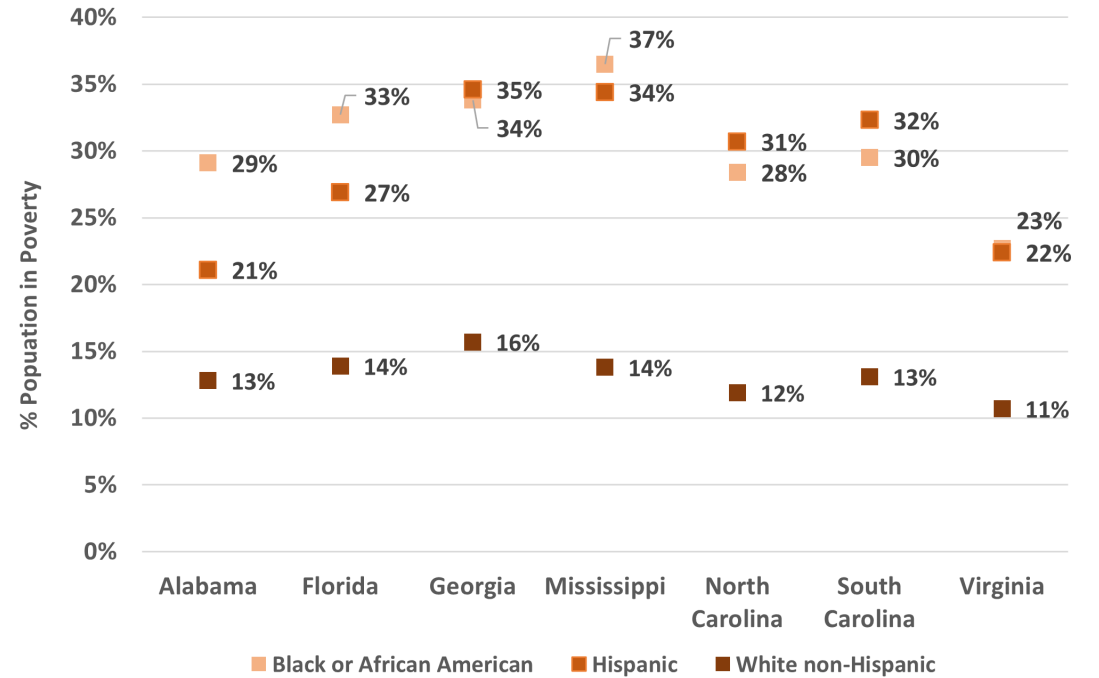
# Poverty Rates

## Poverty in High Need Regions



Source: Author American Community Survey(ACS) 2019 5-Year estimates.

## Poverty Rates Rural Southeast Crescent Region

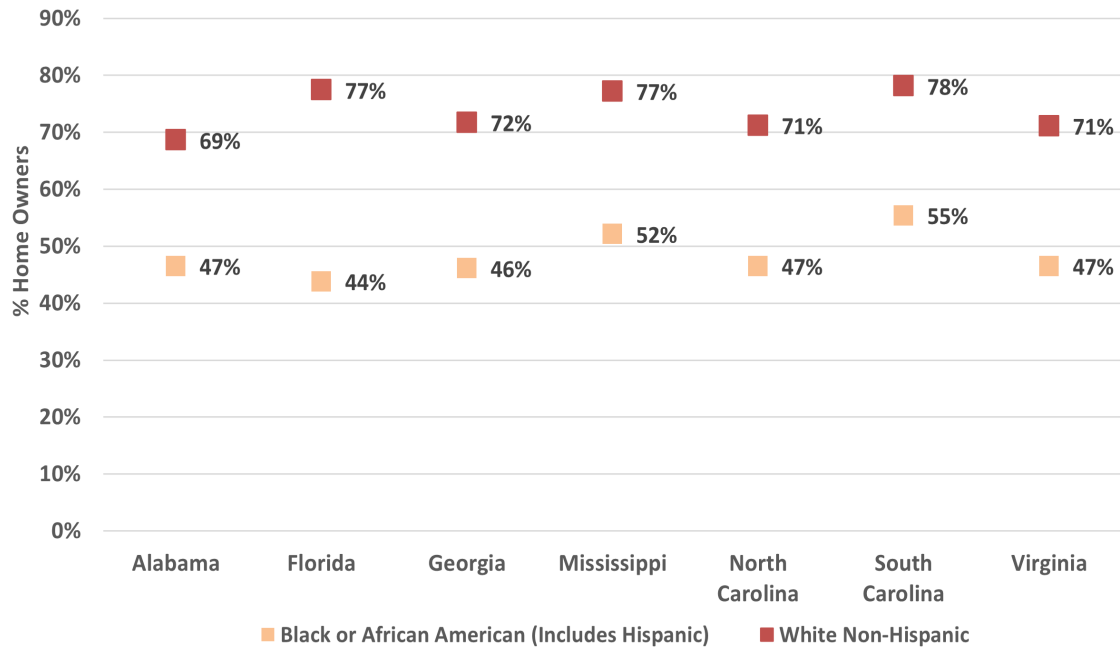


Source: Author tabulation of American Community Survey (ACS) 2019 5-Year estimate.



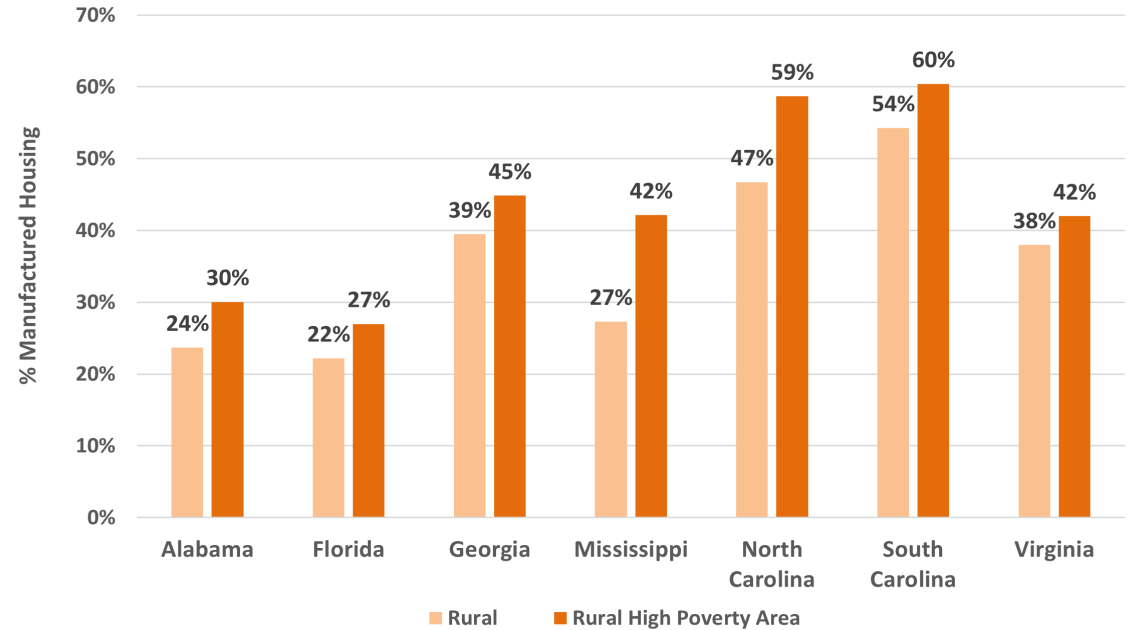
# Housing Characteristics

### Homeownership in High Poverty Rural Census Tracts, Southeast Crescent Region



Source: Author tabulation of American Community Survey (ACS) 2019 5-Year estimates.

### Non-White non-Hispanic Share of Manufactured Housing in the Rural Southeast Crescent

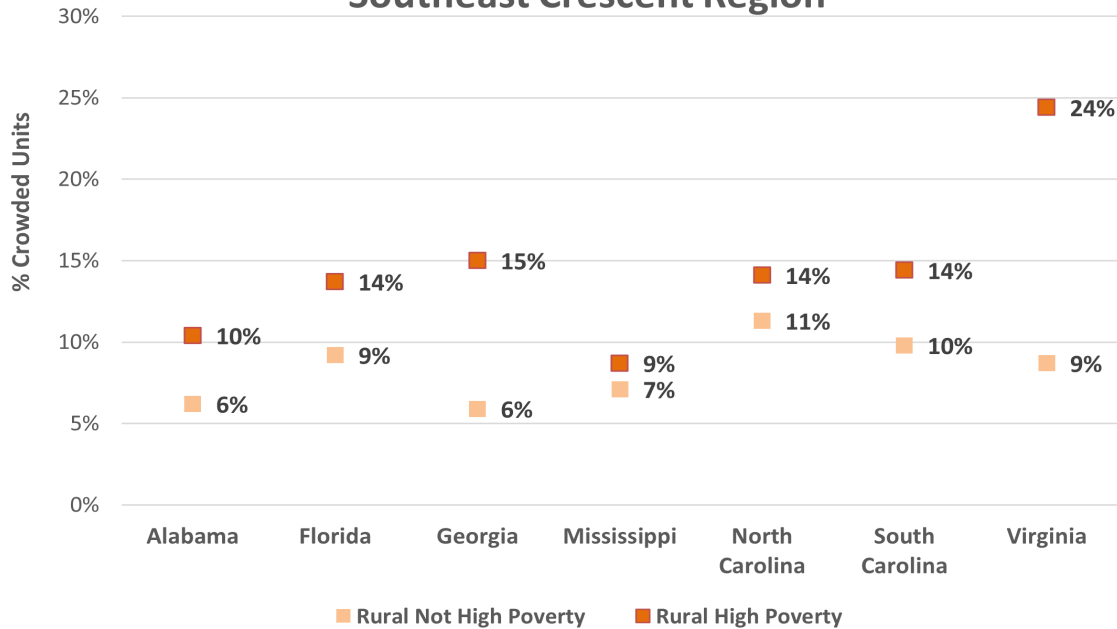


Source: Author tabulation of American Community Survey (ACS) 2019 5-Year estimates



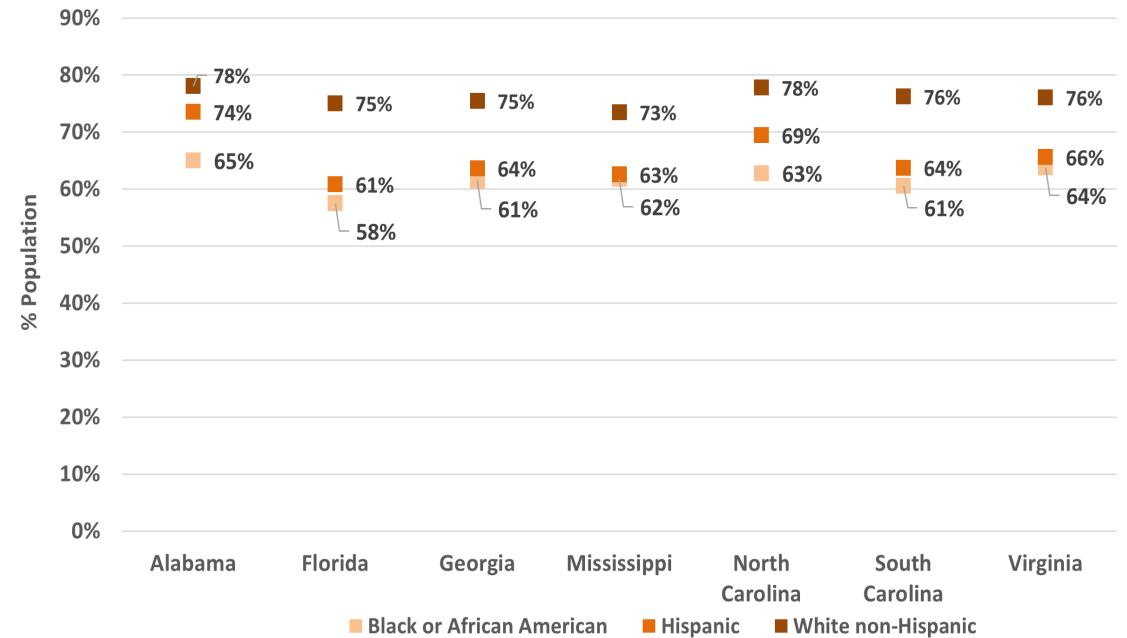
# Housing Characteristics

### Hispanic/Latino Crowded Households, Rural Southeast Crescent Region

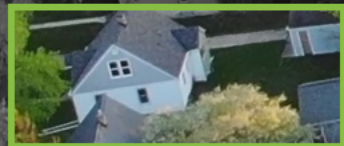


Source: Autor tabulation of American Community Survey (ACS) 2019 5-Year estimates

### Access to Computer and Broadband Subscription, High Poverty Rural Southeast Crescent Region

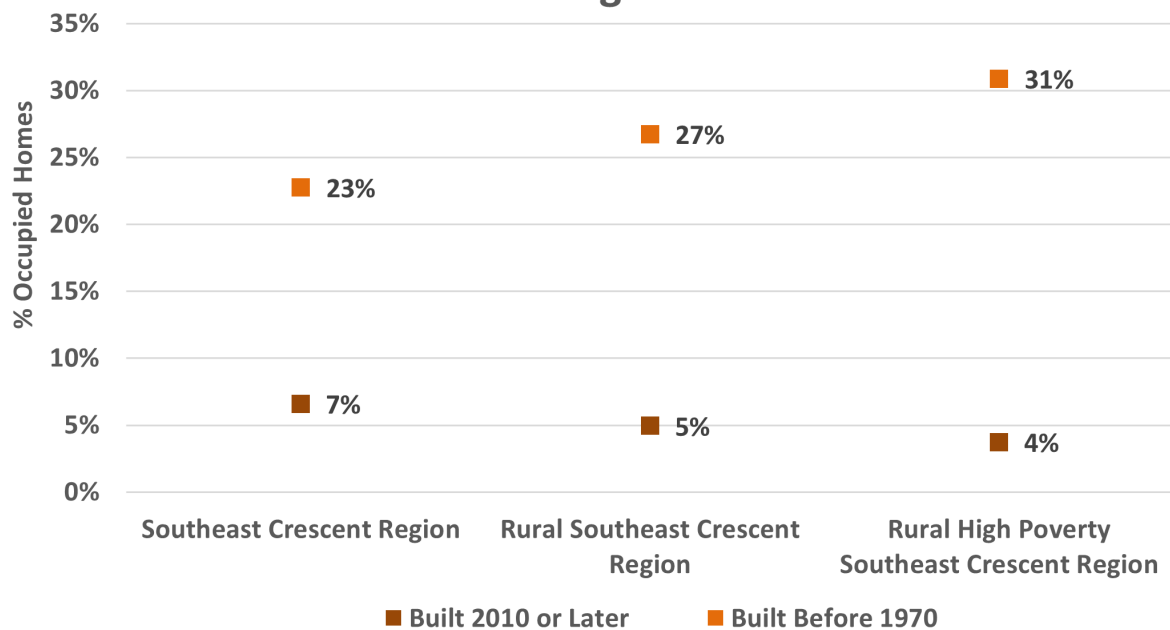


Source: Author tabulation of American Community Survey (ACS) 2019 5-Year estimate.



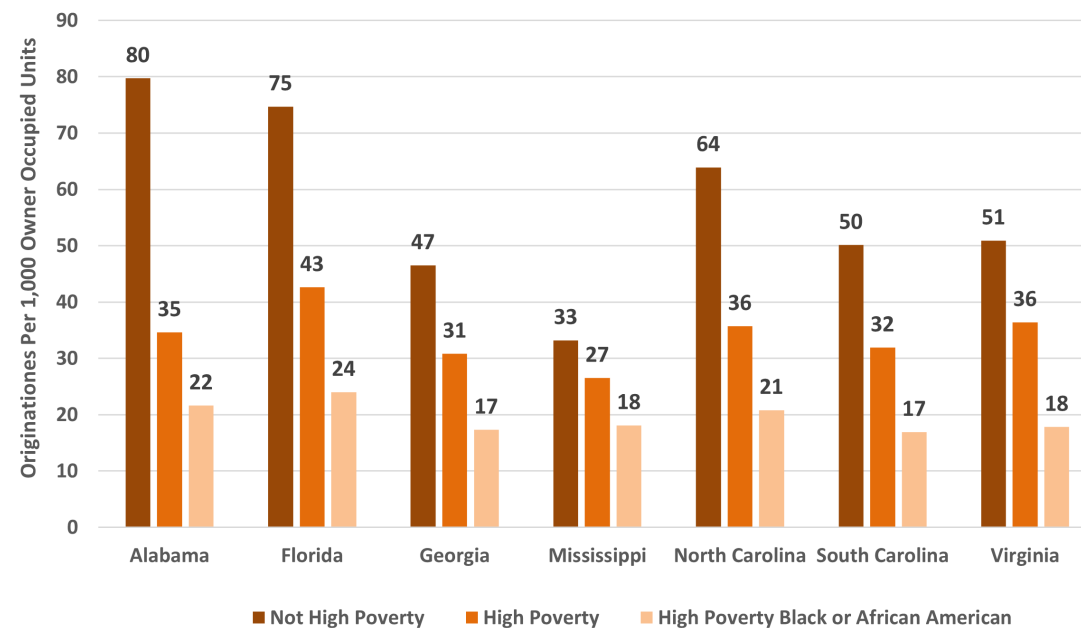
# Housing Characteristics

### Homes by Select Year Built, Southeast Crescent Region



Source: Author tabulation American Community Survey(ACS) 2019, 5-Year estimates.

### HMDA 2020 Home Purchase Lending, Rural Southeast Crescent



Source: Author tabulation Home Mortgage Disclosure Act (HMDA) calendar year 2020 home purchase first lien loan originations.



# Southeast Region Commission

- Commission has been inactive since its creation – no federal co-chair appointed
- Calls to activate the commission
- President Biden has nominated a federal co-chair



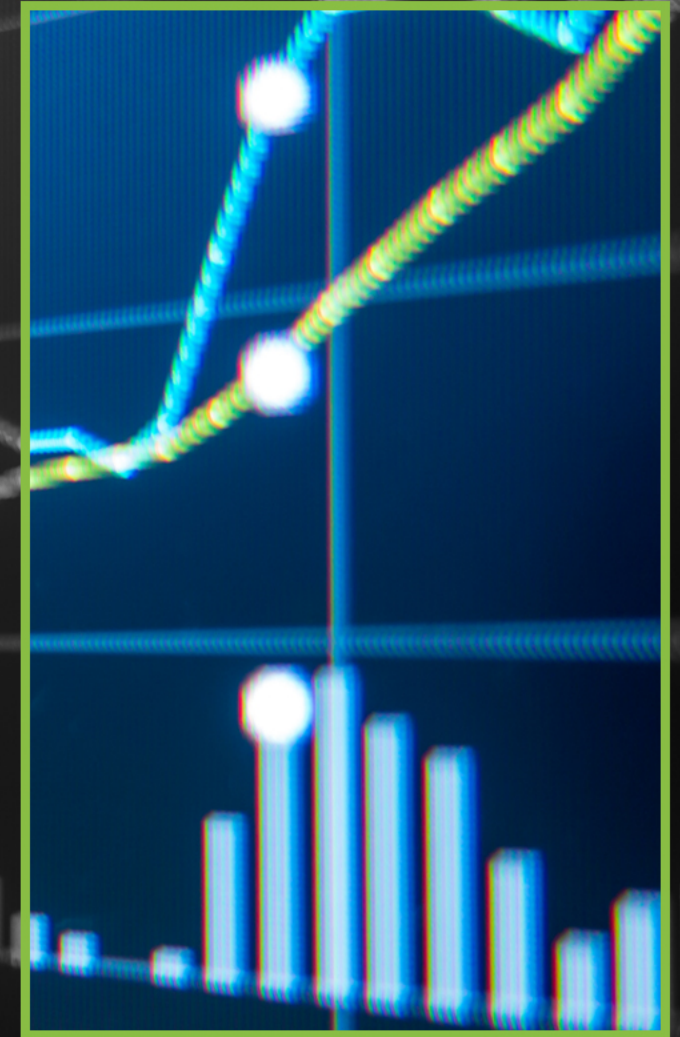
**Thank  
You**

# Household Financial Profiles

Lower Rio Grande Valley Colonias and Rural Areas

Zoraima Diaz-Pineda

cdcb | come dream. come build.







#RuralResearchSymposium





# Demographic Profile

	<b>Age</b>	<b>Metro</b>	<b>Colonia/Rural</b>
	Average	35	45
	Under 30	35%	21%
	Over 60	4%	20%
	Household Size	3.3	3.2



# Financial Pulse

Area Media Income	
M	CoRu
<b>Average</b>	
78%	63%
<b>Under 80%</b>	
59%	75%
<b>Under 50%</b>	
23%	44%

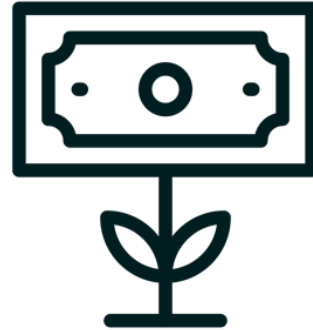
Household Income	
M	CoRu
<b>Avg. Annual HH</b>	
\$37,714	\$30,129
<b>Avg. Annual HH MP</b>	
\$33,149	\$27,263
<b>MP &lt; Poverty Line</b>	
36%	56%



# Financial Immune System



**No Savings**



**< \$3,000**



**Avg. Savings**

50% | 52%

70% | 74%

\$2,189 | \$1,702



# Financial Cholesterol



Debt to Income Ratio

28% | 21%



DTI > 13%

70% | 56%

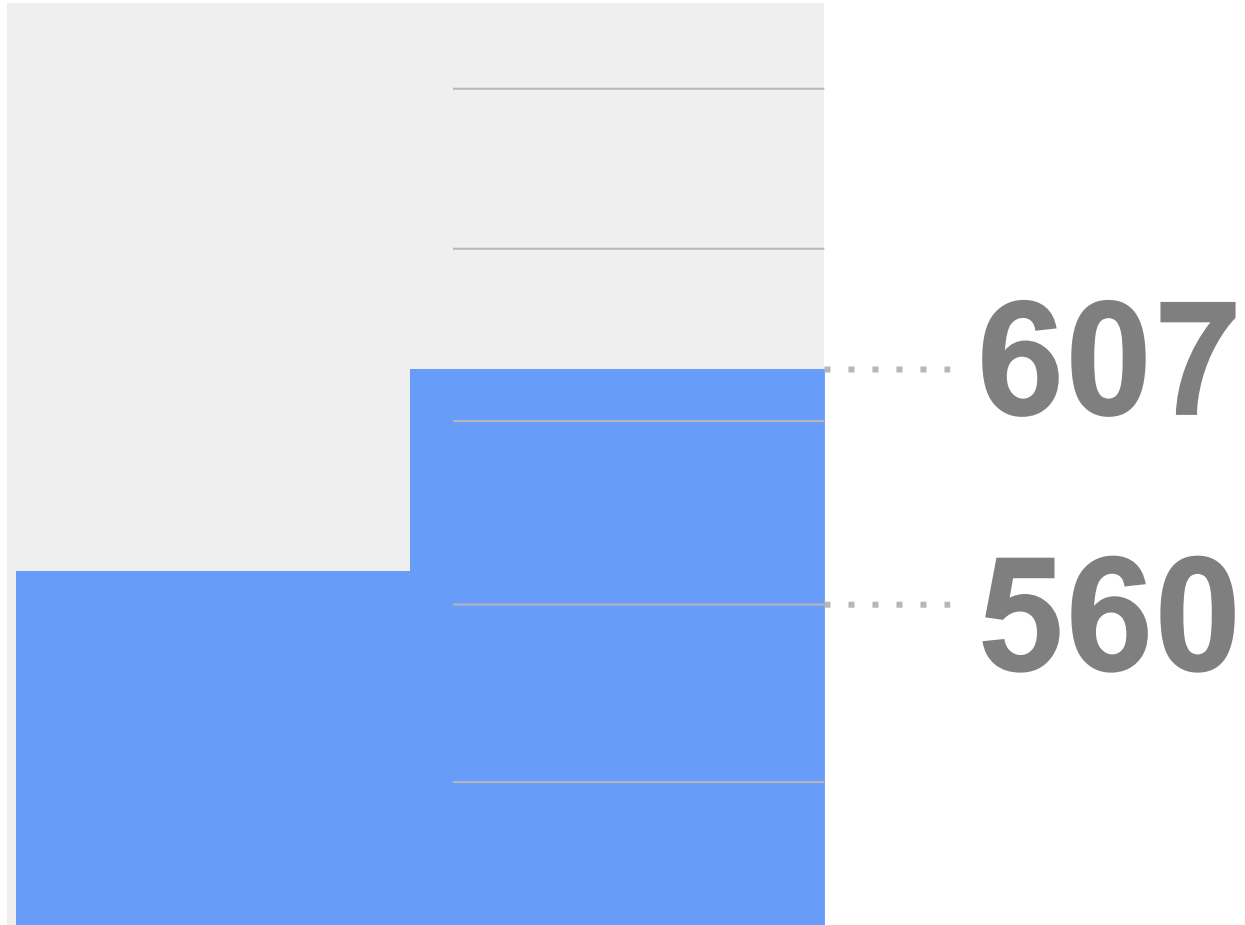


Avg. Monthly Debt Payments

\$628 | \$489



# Financial Blood Sugar



## Credit Challenged

**57% Metro**

**67% CoRu**

## Credit Invisible

**4% Metro**

**9% CoRu**








# Financial Blood Sugar

Accounts Past Due	More than 3 Past Due	AFSP
59%	39%	23%
59%	39%	36%

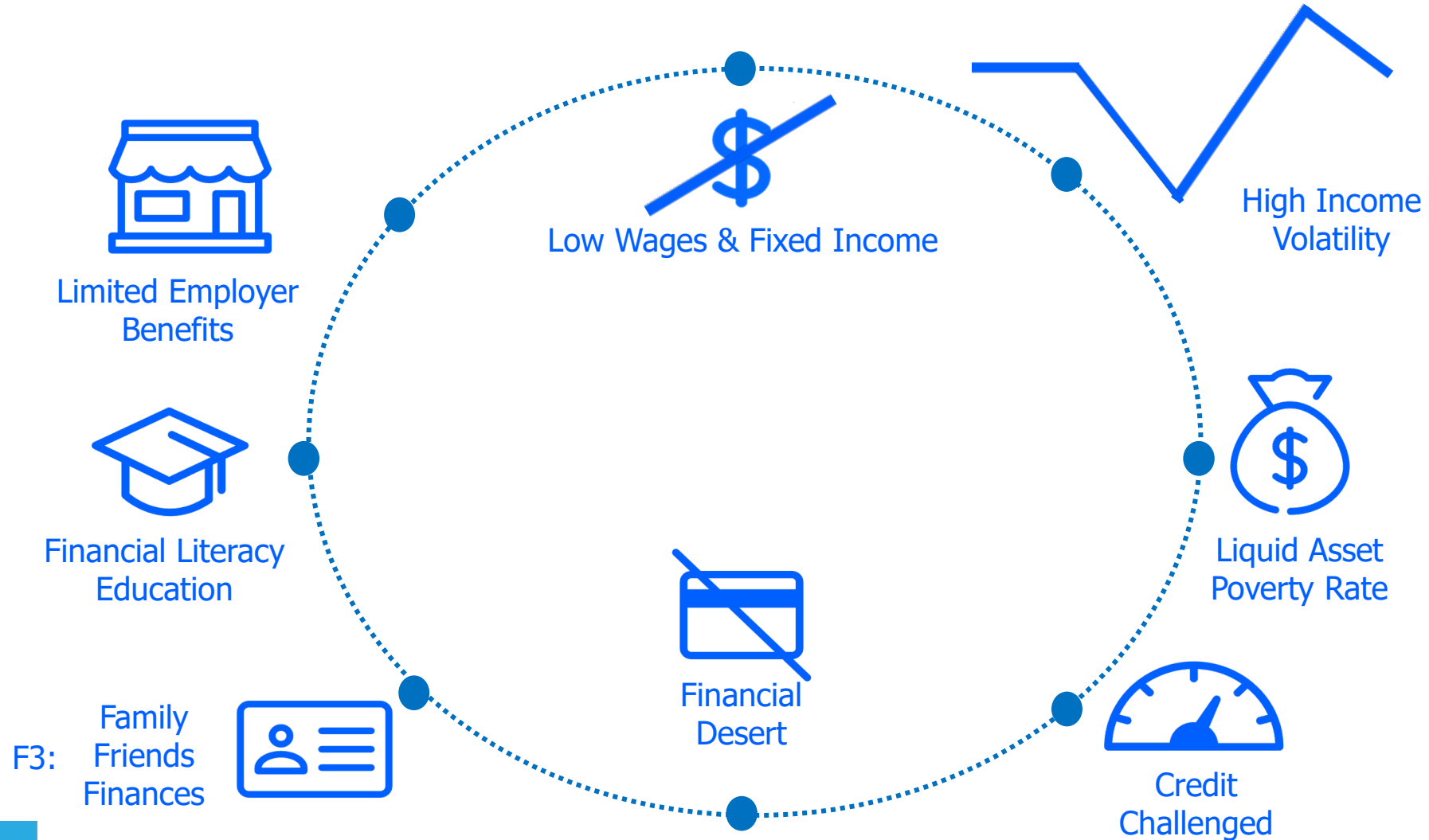


# Client Cohorts

Cohorts	Characteristics
Elderly	 Elderly, low-income, low assets, middle school education
Deep Debtors	 Low income, high DTI and negative net worth
Fixed Income	 Low-income, low net-worth, lower debt, SSI/SSDI
High Earners	 Higher Income, low assets and net worth
Savers	 Middle income, higher savings, total assets and net worth



# Cycle of Chronic Financial Illness







# Quantifying Dreams



Debt to Income Ratio

5%



Monthly Debt Payments

\$106



Credit Score

82



Savings

\$4,898



10.7



# Existing Housing Stock



Photo Credit: Brenda Bazán



# Existing Housing Stock



Photo Credit: Brenda Bazán



# MiCasita



bc Workshop



# Community Capital

**FINANCIALLY UNHEALTHY  
HOUSEHOLDS**

---

**CAUGHT IN A CYCLE OF  
CHRONIC FINANICAL  
ILLNESS**

---

**OPERATE OUTSIDE THE  
FINANCIAL MAINSTREAM**

**HOPEFUL  
PERSISTENT  
ENTRPRENUERIAL  
RESOURCEFUL  
CREATIVE  
RESILIENT**

# p3: people, policy, power



## EVICTIION: CAMERON COUNTY FACT SHEET

Updated January 20, 2021

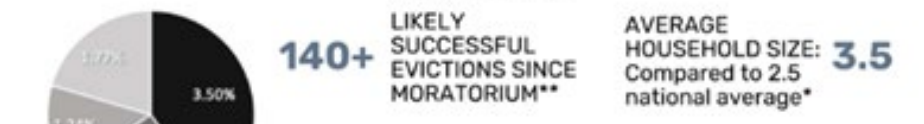
Eviction filing data collected by cdc b through open records requests to Cameron County Justice of the Peace Courts.



**2,081** EVICTIONS FILED SINCE SEPT 2018

**2+** AN AVERAGE OF EVICTIONS FILED PER DAY FOR THE LAST TWO YEARS

**551** EVICTIONS FILED SINCE MORATORIUM (3/27/2020)



- NEGATIVE IMPACTS OF EVICTION**
- Previous eviction has been shown to significantly increase risk of unemployment (Desmond & Gershenson, 2016).
  - Persons threatened by eviction are more likely to experience



# Thank You



[zdiaz@cdcb.org](mailto:zdiaz@cdcb.org)



# In Search of Rural: How Varying Definitions Shape Housing Research

## ALEXANDER HERMANN

Senior Research Analyst, Joint Center for Housing Studies, Harvard University

Alexander Hermann is a senior research analyst, working on projects related to housing markets, demographics, and housing policy. Prior to joining the Center, he worked as a grant writer at a Detroit nonprofit providing housing and treatment services to homeless populations. Alex received a master's in Public Policy and a master's in Urban Planning from the University of Michigan.







# Concentrated Poverty in the Rural Southeast

## KEITH WILEY

### Research Associate, Housing Assistance Council

Keith Wiley is a research associate at the Housing Assistance Council. He specializes in data management and analysis, particularly working with large datasets. His areas of interest include rural housing and development, federal housing and financial oversight policies, smart growth planning and policies, and environmental economics. Keith holds a Ph.D. in Public Policy from the University of Maryland, Baltimore County and a master of Public Policy degree from American University.





# Household Financial Profiles

## ZORAIMA DIAZ-PINEDA

**Director of Policy, Impact, and Innovation, cdc **| come dream. come build.****

Zoraima Díaz-Pineda serves as the director of policy, impact, and innovation at cdc **| come dream. come build.**, in the southernmost stretch of the U.S.-Mexico frontera. As a practitioner, researcher, policy analyst, collaborative thought partner and advocate, Zoraima is committed to creating opportunities for low- and moderate-income households and women of color in small communities and rural areas to build financial health and wealth. She applies a gender and racial equity solution-focused approach to develop innovative financial products, services, and policies and drive investment into Community Development Financial Institutions working in long-standing persistent poverty counties, small cities, rural areas and colonias.

## JAYA DEY

### Senior Economist, Freddie Mac

Jaya Dey is senior economist and quantitative analytics director in the Single-Family Client and Community Engagement division. Her area of research is housing policy issues with a focus on affordability, access to credit, understanding barriers to minority homeownership and housing supply. She has contributed to various peer-reviewed academic journal publications, white papers and research reports. Prior to Freddie Mac, she was a faculty member at Oklahoma State University and Saint Louis University. She holds a doctorate in economics from The Ohio State University and a master's degree in economics from Indian Statistical Institute, New Delhi.