NCPTA & NCDOT-IMD PRESENT

"Data for Mobility & the Importance of an Accurate Count"

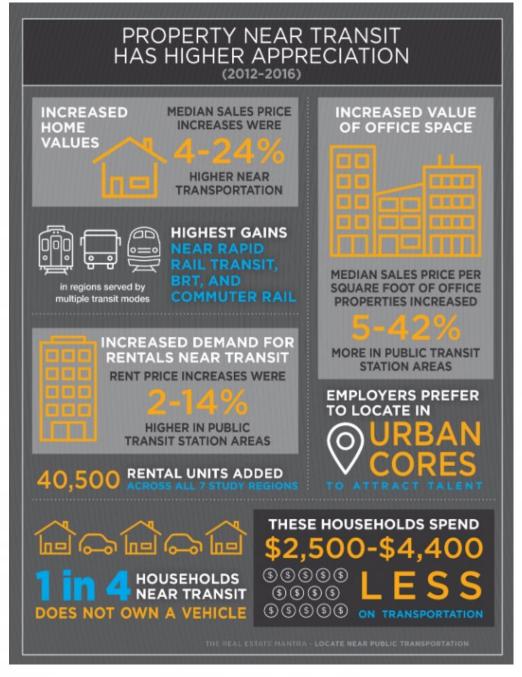
Presented by:

Miguel Fernandez – Transportation Planner – PART

Bob Coats - Governor's Census Liaison - NC Office of State Budget and Management

- Please make sure you sign-in with your name and organization.
- Please use the Chat option to let us know how many people are at your location.
- Please use the Chat option for any questions for the presenters, we will address them at the end of the presentations.





Data-Driven Transit Planning

Data for Mobility & the Importance of an Accurate Count

Public Transportation Webinar Series
January 14, 2020

Miguel Fernandez
Transportation Planner
Piedmont Authority for Regional Transportation

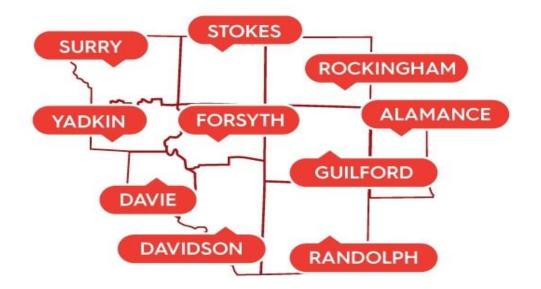


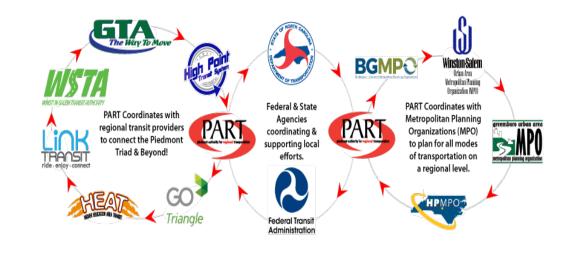
- About PART
- How Data is Used in Transit Planning
- Challenges
- Looking Forward



About PART

- Our goal is to improve transportation through regional cooperation.
- PART is a unit of local government which serves a 10county territory of the Piedmont Triad Region.







PART Regional System Map



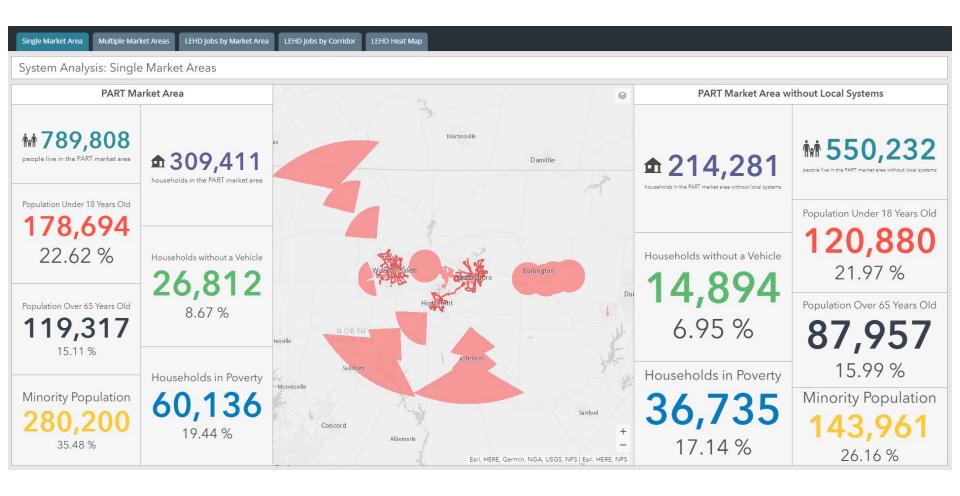


Data Sources

- American Community Survey (ACS)
- OnTheMap
- Automatic Passenger Counters (APC's)
- Surveys

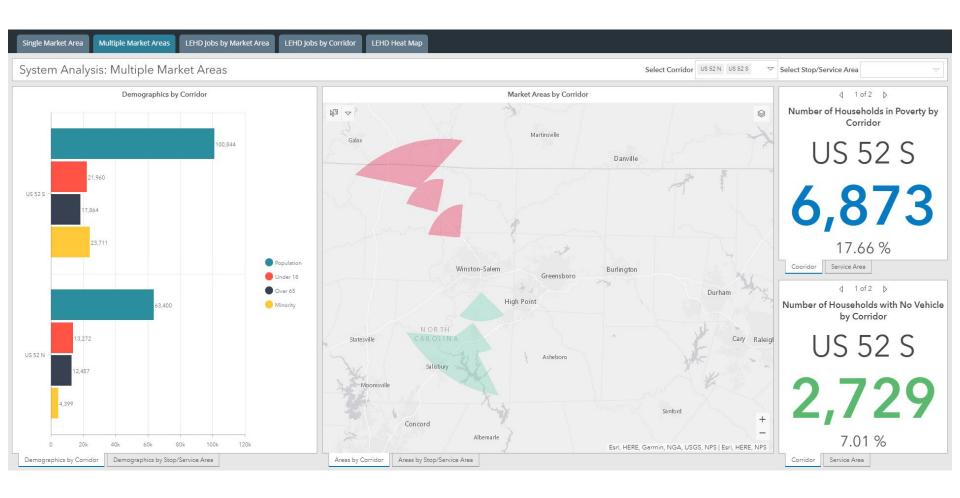


System Analysis



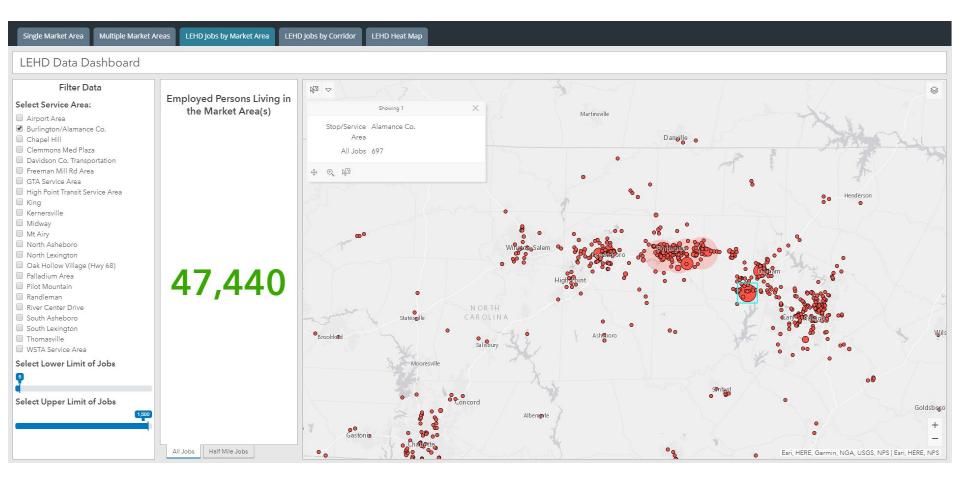


Rideshed by Corridor





LEHD Data by Rideshed





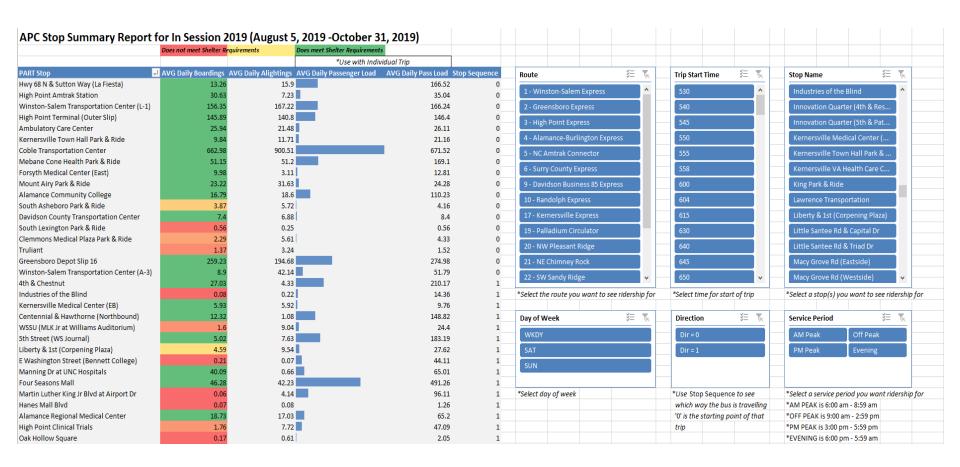
Automatic Passenger Counter (APC) Data

- Sensor that detects when bus doors open and close
- Infrared sensors at bus door counts passengers boarding and alighting
- Sensor that detects wheelchair ramp and bike rack activity
- GPS device that provides latitude and longitude



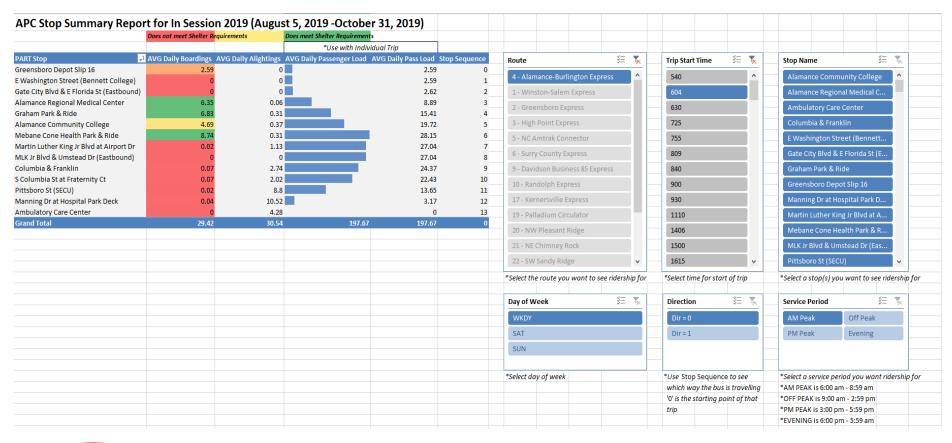


APC Stop Summary Data



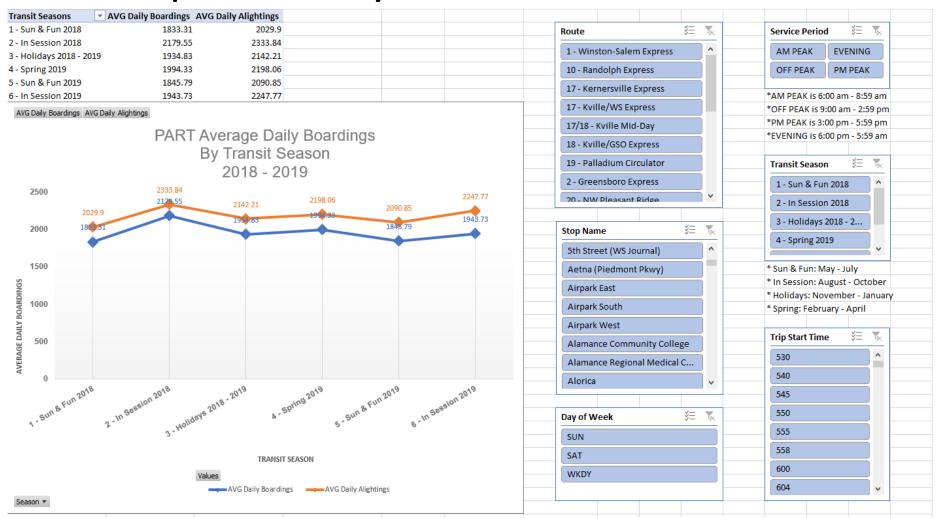


APC Stop Summary Data



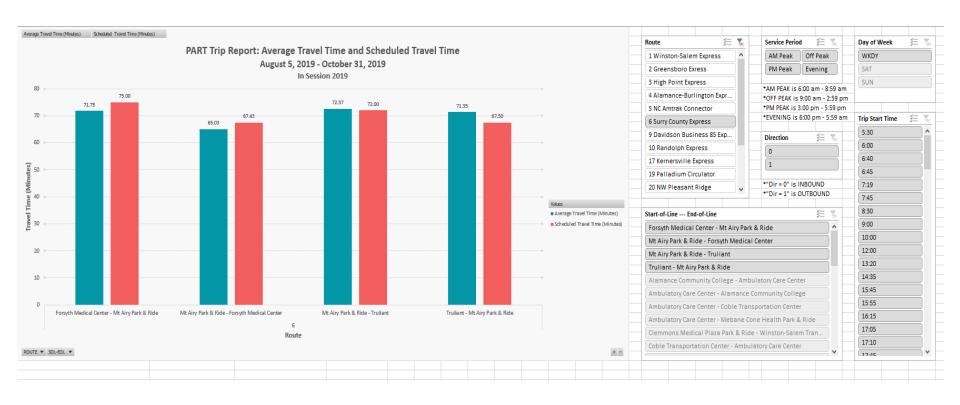


APC Stop Summary





APC Trip Report Data



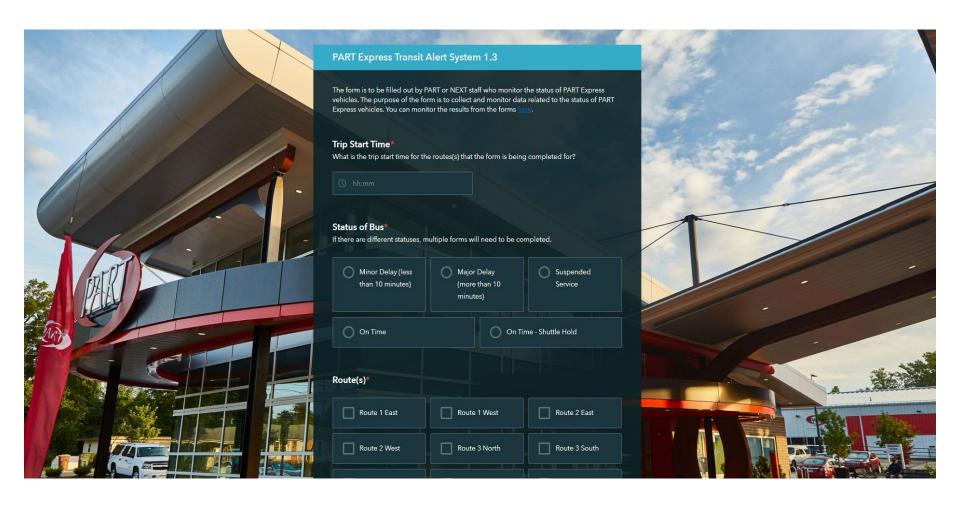


Performance Measures





Transit Alert System





Transit Alert System





Challenges

- Longitudinal Employer-Household Dynamics data from 2015
- No deployment plan for buses and APC's
- Updating the Performance Measures dashboard is a very manual process
- There was a learning curve when PART made the switch from the email blast to the Transit Alert System



Looking Forward

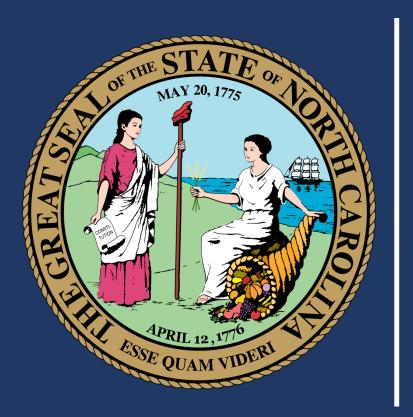
- Deep analysis of Transit Alert System
- Conduct further passenger surveys to refine PART's rideshed
- Update Bus Stop Inventory



Thank you!

Miguel Fernandez
Transportation Planner
Piedmont Authority for Regional Transportation
miguelf@partnc.org





Making NC Count Piedmont Authority for Regional Transportation January 14, 2020

Bob Coats Governor's Census Liaison North Carolina State Data Center Office of State Budget & Management, Demographic & Economic Analysis Section

Bob.Coats@osbm.nc.gov



North Carolina Population vs. Other States

9th Largest State at 10.5 Million

4th Largest Population Gain (952,000 people), April 2010 to July 2019

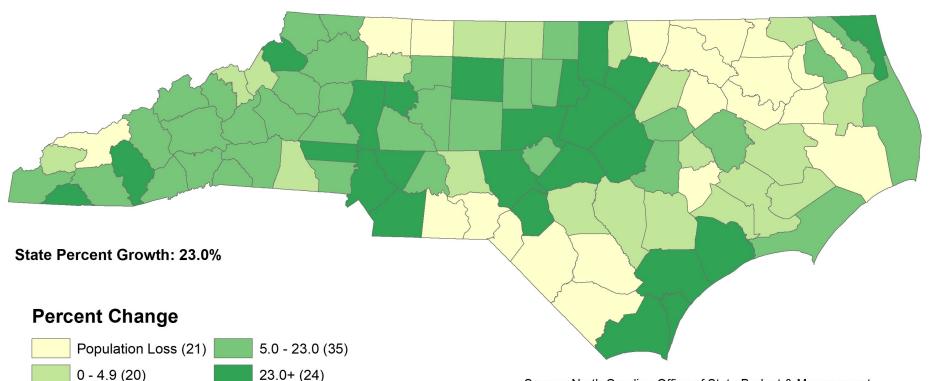
	Population Estimate		Change, 2010-2018	
Geographic Area	April 1, 2010	July 1, 2018	Numeric	Percent
United States	308,758,105	328,239,523	19,481,418	6.3
California	37,254,519	39,512,223	2,257,704	6.1
Texas	25,146,091	28,995,881	3,849,790	15.3
Florida	18,804,564	21,477,737	2,673,173	14.2
New York	19,378,144	19,453,561	75,417	0.4
Pennsylvania	12,702,868	12,801,989	99,121	0.8
Illinois	12,831,572	12,671,821	-159,751	-1.2
Ohio	11,536,751	11,689,100	152,349	1.3
Georgia	9,688,729	10,617,423	928,694	9.6
North Carolina	9,535,751	10,488,084	952,333	10.0
Michigan	9,884,116	9,986,857	102,741	1.0

Source: U.S. Census Bureau, Population Estimates, Vintage 2019. 2010 census estimates base.



Projected Population Change, July 1, 2019 – July 1, 2039

Projected Growth in Majority of NC Counties



Source: North Carolina Office of State Budget & Management, Demographic & Economic Analysis, Population Projections, Vintage 2019.

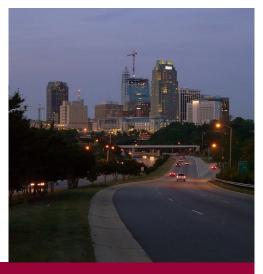


You May Have Heard ...



MAKE NC COUNT

CENSUS 2020





Shape your future START HERE >



Census Impact

Our Voice (Representation)

- Census is required by the US Constitution
- Count every resident, once, and in the right place
- Apportionment and Redistricting

Our Tax Dollars (Funding)

- \$1,623 per person, per year in Federal Funding to NC based on Census data in FY2015
- About \$200 per person, per year in state funding based on Census data

Our Future (Planning)

- Largest survey in the US providing reliable, comparable data
- Vital for business and local government service



Decennial Census is a Foundation

Geographic Foundation

- Census Redistricting
 Establishes the smallest geographic units (census blocks)
 used for redistricting
- Participant Statistical Areas Survey (PSAP)
 Defining statistical boundaries for the next decade including tribal areas and Census Designated Areas
- Boundary Annexation Survey (annual)
 Verifying boundary changes

Demographic Foundation

Largest and most granular survey
 Foundation for other Census estimates, models, and surveys throughout the decade like ACS and LEHD



Census Data at Work



Classroom

Service Audience





Infrastructure Workload



What Can We Expect?

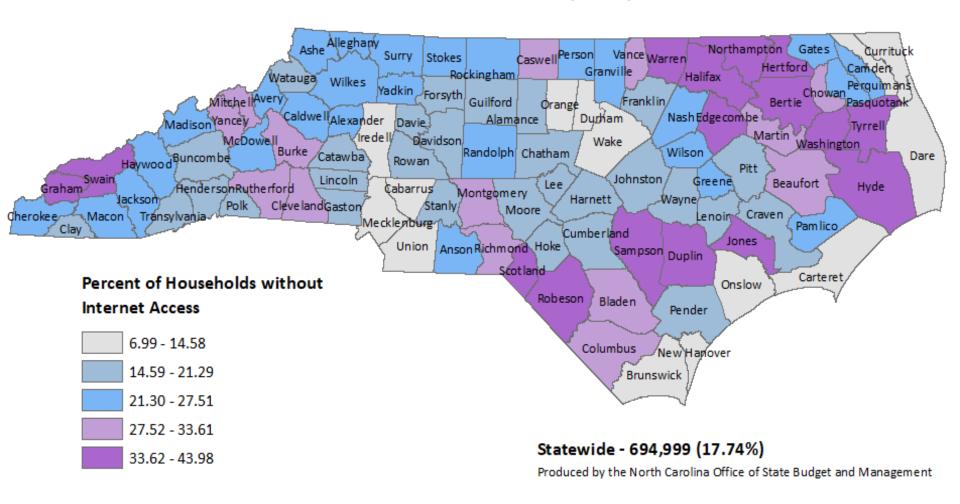
- Census Mailings in March 2020
 Internet, phone, and paper response options will be available
- April 1, 2020 is Census Day
 Non-response Follow Up will begin in April
- State Populations must be reported by December 31, 2020
 These numbers determine apportionment of seats in Congress
- Redistricting Files will be delivered in Spring 2021
- Census Count Challenges can be submitted through 2023
 Challenges can only be submitted by local/tribal governments
- Metropolitan Statistical Areas will be redefined in 2023



Internet Access in North Carolina

Percent of Households Without Internet Access

Source: 2014-2018 American Community Survey, US Census Bureau



Questionnaire Assistance

- Assistance in responding to the 2020 Census will be available through online chat or by phone
- Census staff may be available on the ground in mid-March to assist
- Local communities should plan to schedule Census assistance at locations with internet access





- Start/join a Complete Count Committee
 Stay connected with the NC CCC
- Involve agency partners staff and customers
- Leverage your existing resources

Add the NC Census Logo to your website and email taglines

Link to census.nc.gov

Use #MakeNCCount and @NCCensus on social media

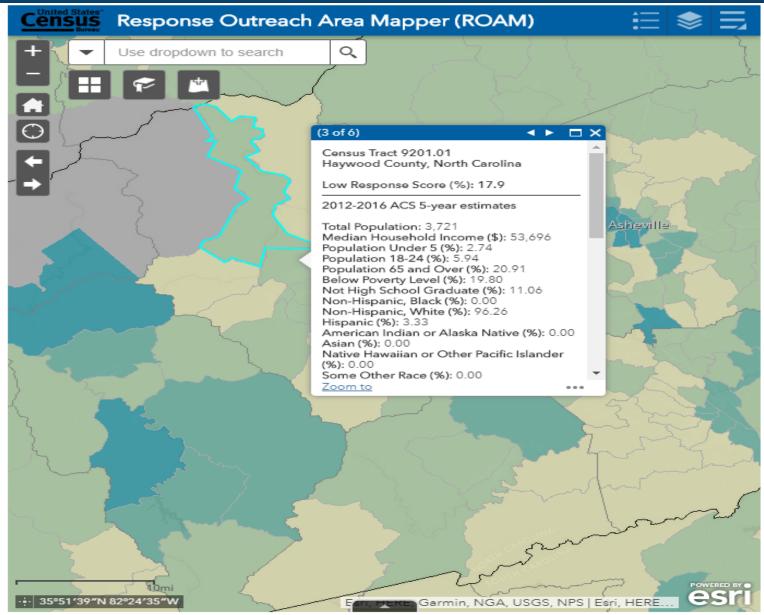
Include Census logo, reference, or content on standard work processes (mailings, documents, listservs, blogs, etc.)

Add Census message at conferences



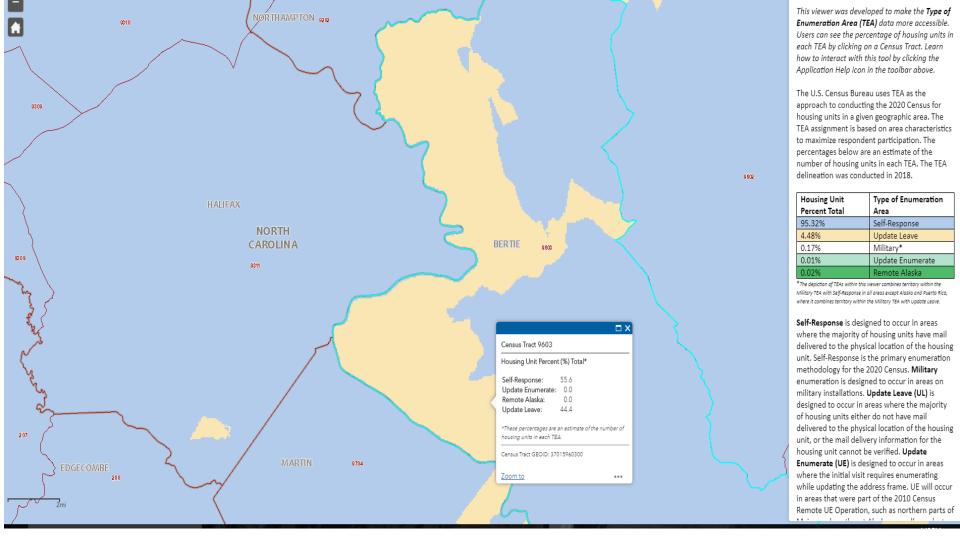


ROAM – https://www.census.gov/roam



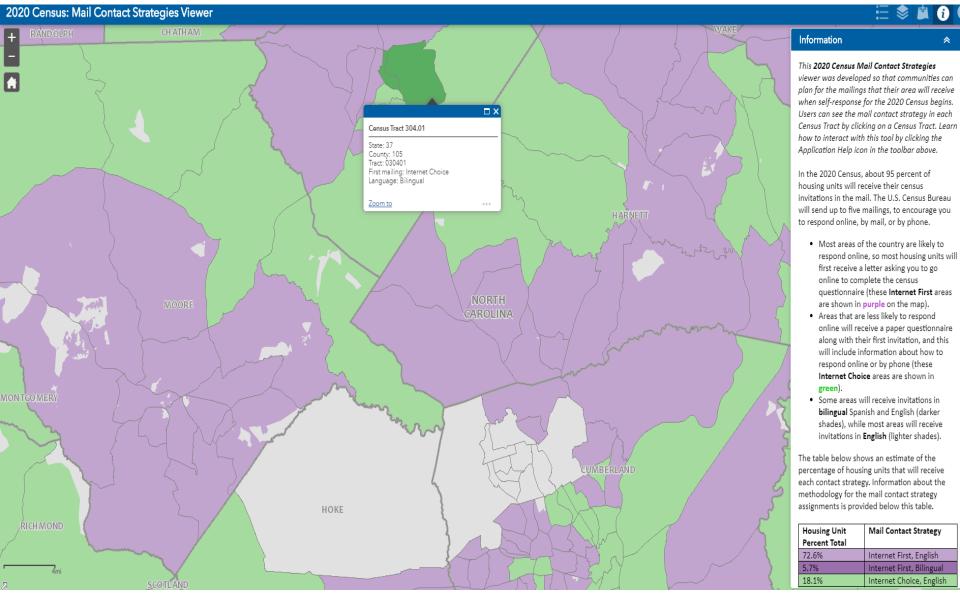
2020 Census: Type of Enumeration Area (TEA) Viewer

Type of Enumeration Area (TEA) Viewer



Information

Mail Contact Strategies Viewer





NC Census Website – https://census.nc.gov



Home Contacts

Q

North Carolina 2020 Census

Make NC Count

The Census is your chance to make sure your community counts. Participating in the Census will help make sure your community gets:

- · Fair representation in Congress
- Financial resources for health, schools, transportation, and more
- Information leaders need to help your community plan for the future.



What is the Census?



Differential Privacy

- New privacy strategy that will better protect confidentiality
- Introduces privacy-loss budget (or epsilon) that will decrease data accuracy to protect confidentiality
- Data tables for small population groups or geographies may not be produced ... at least initially



2020 Census Product Summary

Summary of Proposed 2020 Data Products

Proposed 2020 Data Product	Status	
Apportionment Product	The current disclosure avoidance system either supports or is being expanded to support these 2020 Census data products	
Redistricting File		
Demographic Profiles		
Demographic and Housing Characteristics File (DHC)		
Tables that require complex person/household joins	We continue to research ways to create public data products that include these tables that will meet user needs yet maintain data confidentiality.	
Tables that include detailed race and Hispanic Origin groups		
Tables that include data for American Indian and Alaska Native groups		
Congressional District Demographic and Housing Characteristics File	Data in these files are primarily dependent on the production of the files listed above.	
Census Briefs		
Population and Housing Tables (CPH-Ts)		
Special Reports		
Public Use Microdata Sample (PUMS) File	We continue to discuss the release of a PUMS file for the 2020 Census.	
Summary of Population and Housing Characteristics (CPH-1)	We are proposing not to publish these files in 2020. Data from these products will be available in other files.	
Population and Housing Unit Counts Report Series (CPH-2)		



MAKE NC COUNT

CENSUS 2020

Contact

Bob Coats (984) 236-0687

Bob.Coats@osbm.nc.gov

Governor's Census Liaison, North Carolina State Data Center Demographic and Economic Analysis Section NC Office of State Budget and Management

Question & Answer Session:

Please use the Chat option on the right to ask your questions.

• Please use the Chat option to let us know how many people are at your location.

Please visit our website for this presentation, previous presentations and our schedule of future Webinars on exciting topics in today's Mobility solutions and related subjects.

https://connect.ncdot.gov/business/Transit/Pages/Transit-Lunch-Learn-Series.aspx

Thank you and please join us for our next Webinar in March. More details to come.