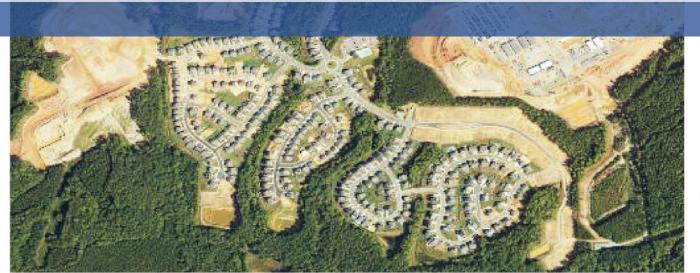


CLICK TO KNOW MORE



GEOSPATIAL INFORMATION DRIVING INNOVATION AT THE U.S. CENSUS BUREAU







CENSUS BUREAU VISION AND MISSION

Vision

To be the trusted source for timely and relevant statistical information, and the leader in data-driven innovation.



Mission

To serve as the nation's leading provider of quality data about its people and economy.





OUR WORK AT THE CENSUS BUREAU



Data Collection

3 Primary Censuses

Over 100 ongoing surveys



Data Analysis

Editing, Imputation, Estimation

Disclosure and Confidentiality



Data Dissemination

Data Tools and Applications

data.census.gov



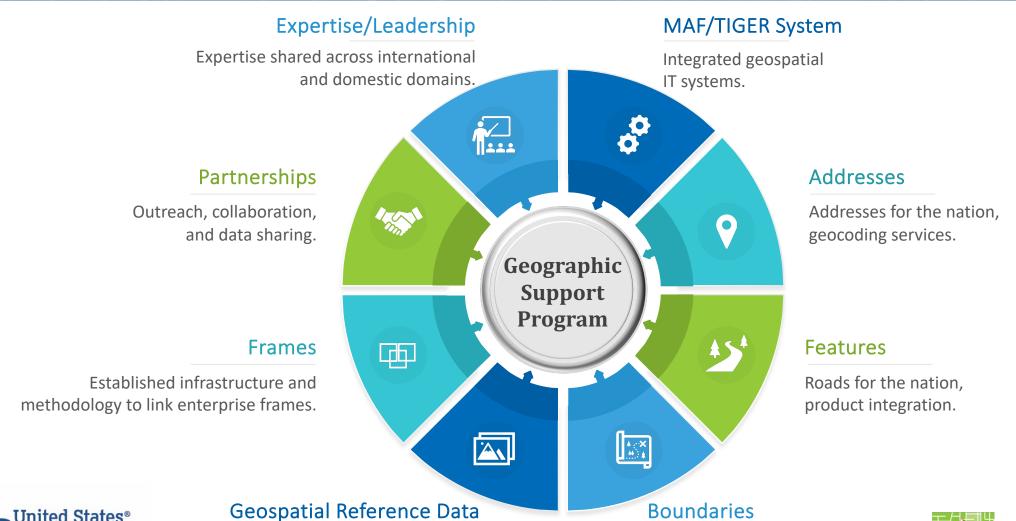


GEOGRAPHY DIVISION'S GEOGRAPHIC SUPPORT PROGRAM

THE FOUNDATION THAT SUPPORTS CENSUS BUREAU DATA COLLECTION, ANALYSIS, AND DISSEMINATION

Government unit boundaries

for the nation, statistical areas.



Sourced from federal, tribal,

state, and local providers.



U.S. CENSUS BUREAU GEOSPATIAL FOUNDATION

Geospatial information in our MAF/TIGER System includes...



Over 14 million unique geographic areas, including legal, administrative, and statistical areas (e.g., census tracts, block groups, blocks)



Legal boundaries for approximately 40,000 units of government



Approximately 7 million miles of roads



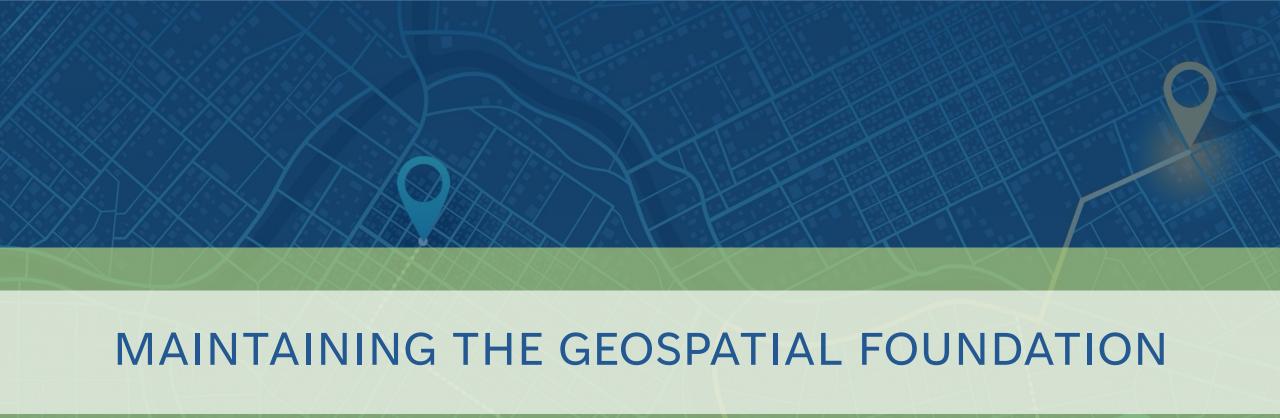
More than 144.5 million housing units

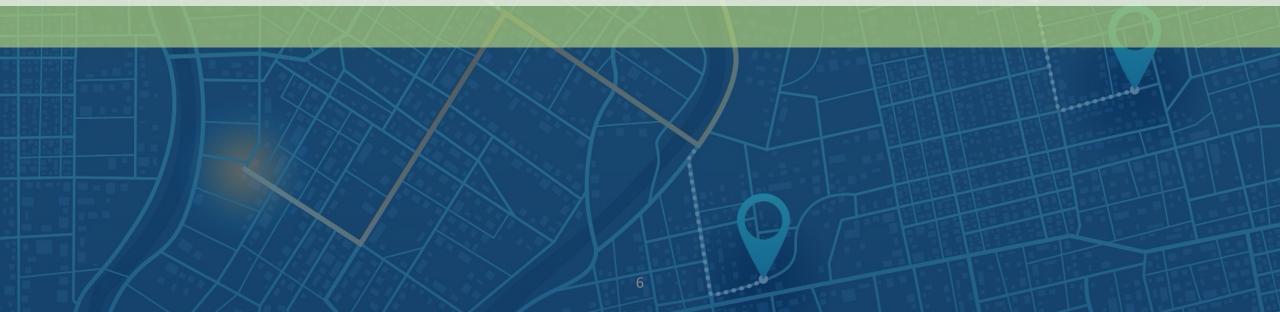


Structure points for approximately 94% of those housing units

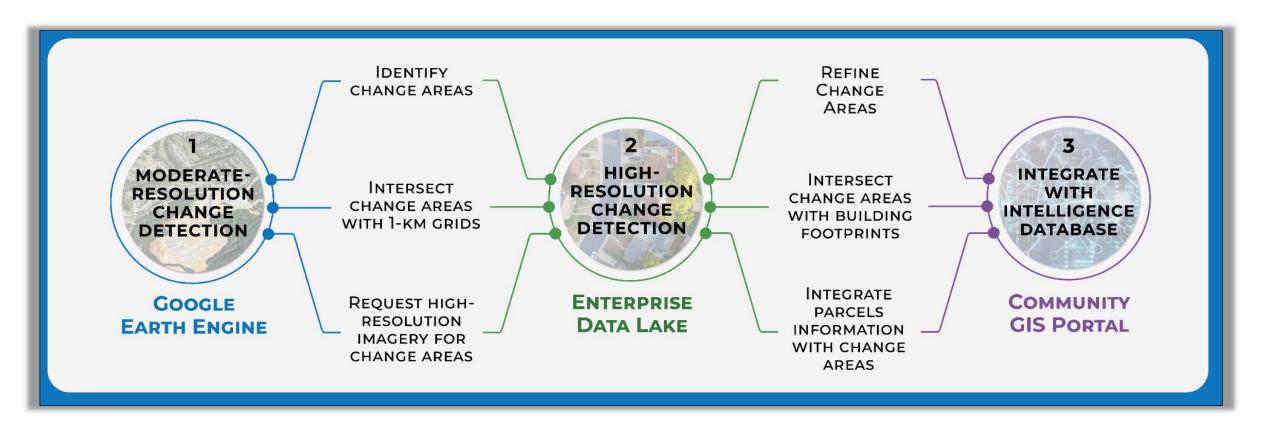








CHANGE DETECTION







CHANGE DETECTION - MODERATE RESOLUTION







CHANGE DETECTION - HIGH RESOLUTION







CHANGE DETECTION - PARCEL MATCHING









Enterprise Fusion Center

Critical Times and Significant Events

Mission: To continuously collect, curate, and analyze a range of risk indicators, and disseminate and report key information to the right stakeholders before a disruption escalates in severity, ultimately making the Census Bureau more resilient.



Align



Centralize



Integrate



Establish



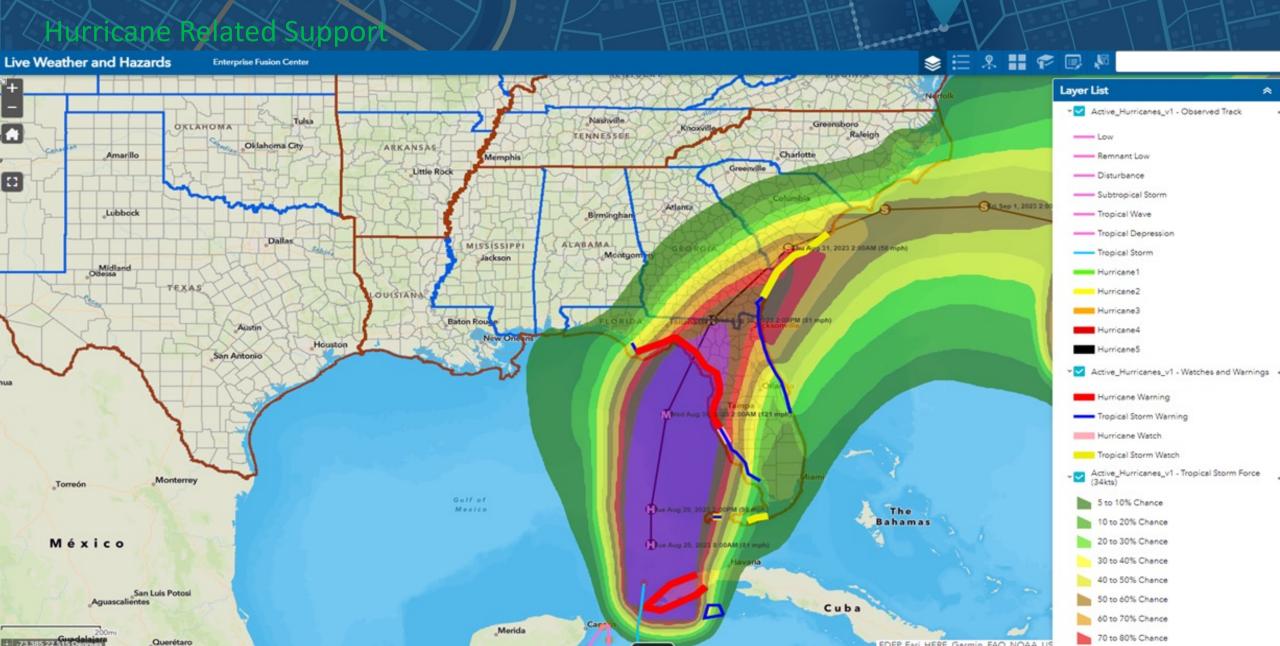
Build











COVID-19 Pandemic Support



2020 Census Executive Snapshot July 10, 2020



| LOW | successive weeks has to be less than 10% each week. The ACO is not low risk and the rate of new cases is <100 per 100K population. | | | | | |
|--------|--|--|--|--|--|--|
| MEDIUM | | | | | | |
| HIGH | The ACO is not low risk and the rate of new cases is >=100 per 100K population. | | | | | |

DHS Risk Categorization

The growth in new

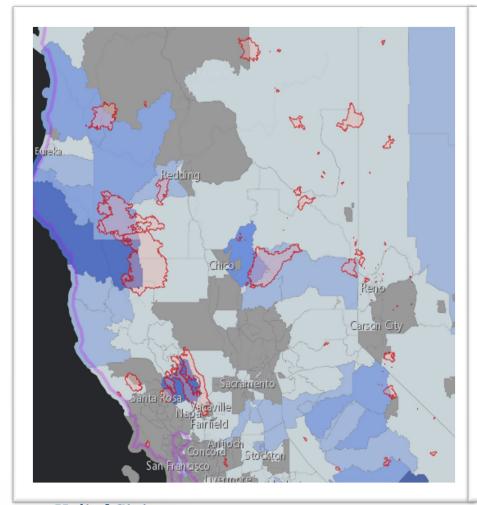


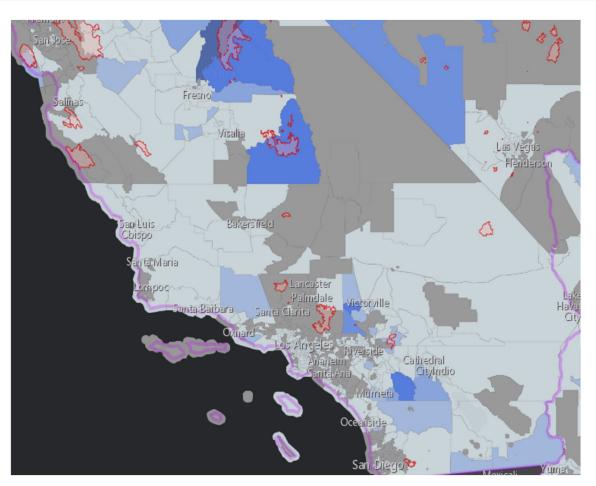
| COVID-19 by RCC counties | Total RCC Population | ACO Risk Score | | | | County Level Growth | | | |
|--------------------------|----------------------|----------------|--------|------|------------|----------------------|----------|------|----------------|
| | | Low | Medium | High | Total ACOs | Stable or Decreasing | Moderate | High | Total Counties |
| ATL RCC | 60,260,086 | 1 | 0 | 41 | 42 | 84 | 126 | 378 | 588 |
| CHI RCC | 53,393,891 | 18 | 6 | | 32 | 260 | 332 | 56 | 640 |
| DAL RCC | 55,174,159 | 6 | - 4 | 40 | 50 | 309 | 402 | 217 | 921 |
| LA RCC | 58,359,491 | 2 | 10 | 31 | 43 | 62 | 119 | 47 | 221 |
| NY RCC | 43,180,814 | 41 | 1 | 0 | 42 | 128 | 22 | | 150 |
| PHI RCC | 57,871,082 | 18 | 6 | 12 | 36 | 179 | 362 | 59 | 600 |
| Total for 7/10 | 328,239,523 | 86 | 27 | 132 | 245 | 1,022 | 1,363 | 757 | 3,142 |
| Total for 7/09 | 328,239,523 | 89 | 25 | 131 | 245 | 1,053 | 1,376 | 713 | 3,142 |

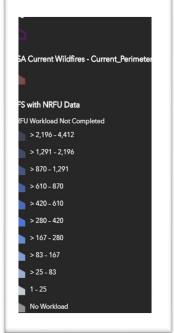
Shape your future start HERE >



Wildfire Related Support



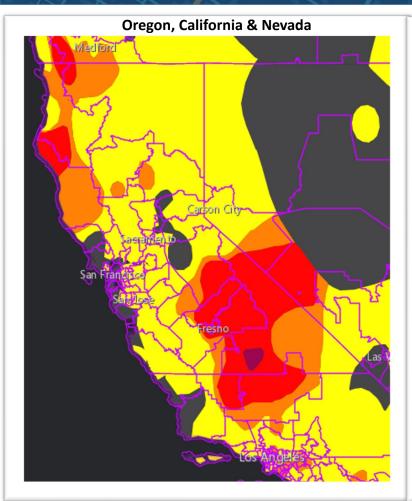


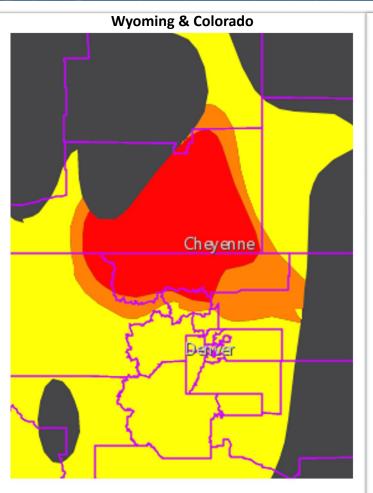


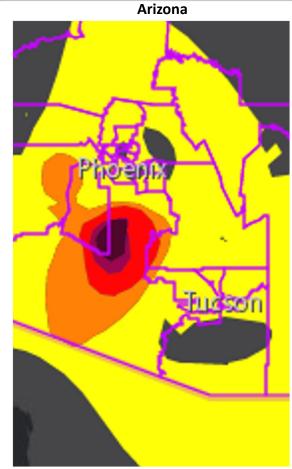




Air Quality Related Support



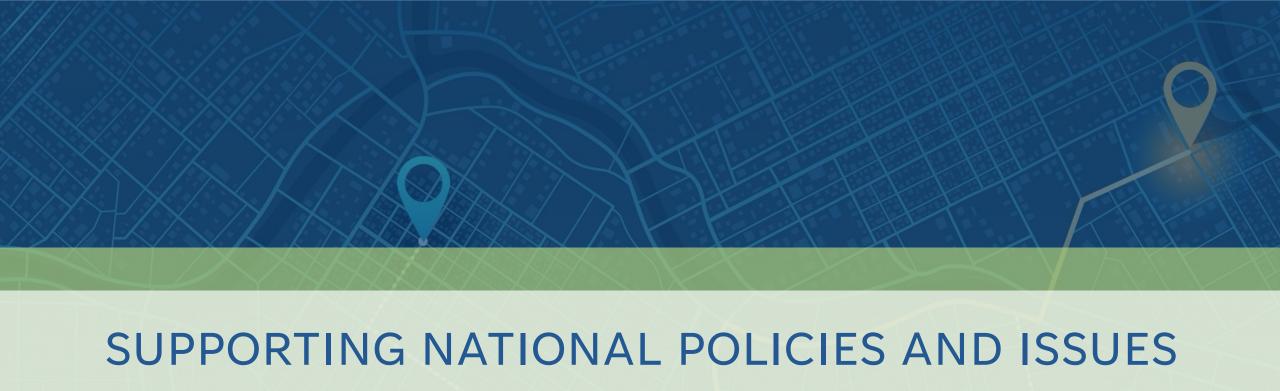


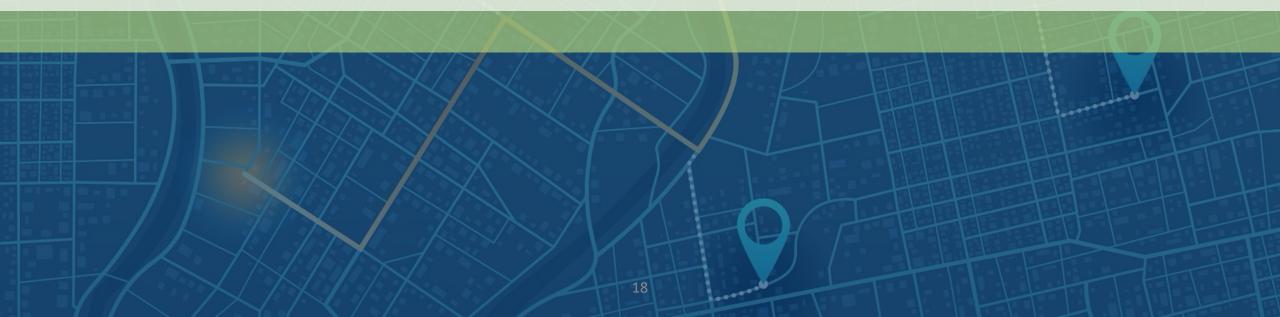




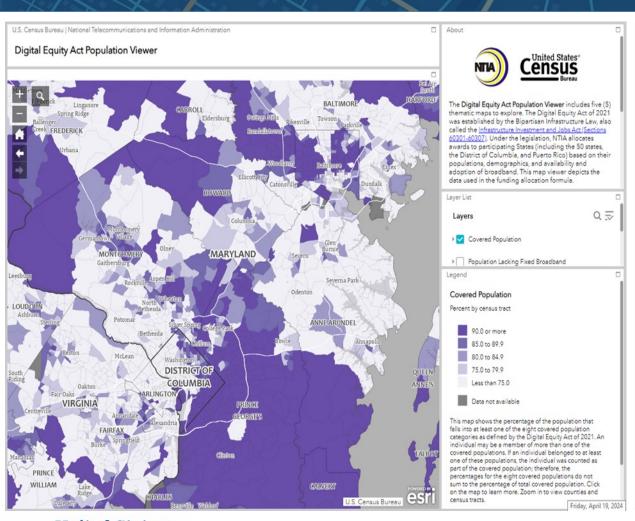


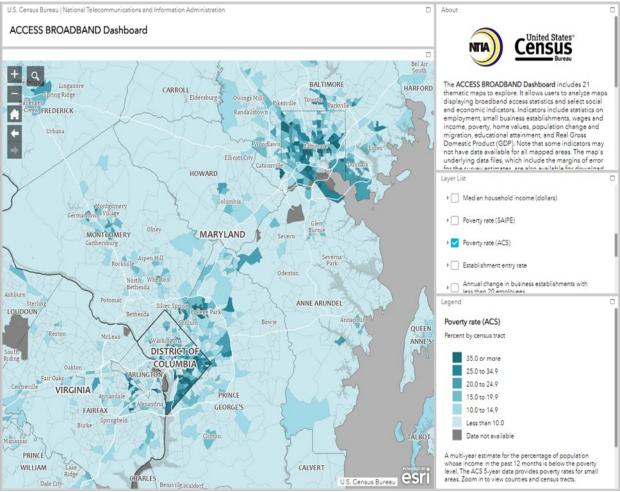






DIGITAL EQUITY













WHAT IS COMMUNITY RESILIENCE?

MEASURING COMMUNITY RESILIENCE

Percentage of Residents

Community Resilience Estimates

Number of Residents

Select State: Select one state

Select County:

53

Number of Residents

Percentage of Residents

27

Figure 3.

U.S. Counties More/Less Socially Vulnerable Than Nation to Extreme Heat: 2019



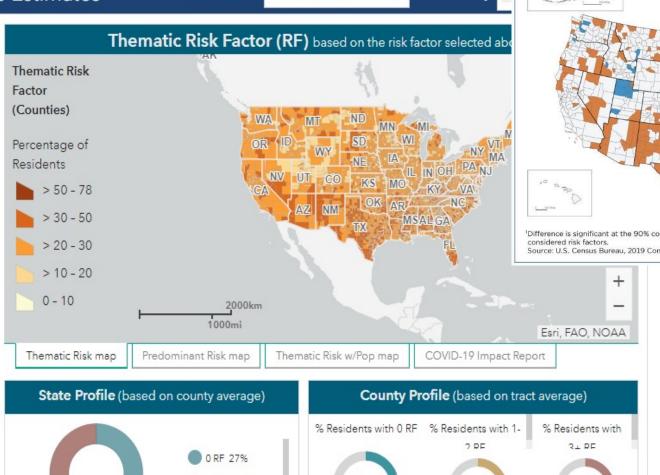
Community resilience is the capacity of individuals and households to absorb, endure, and recover from the health, social, and economic impacts of a disaster such as a hurricane or pandemic.

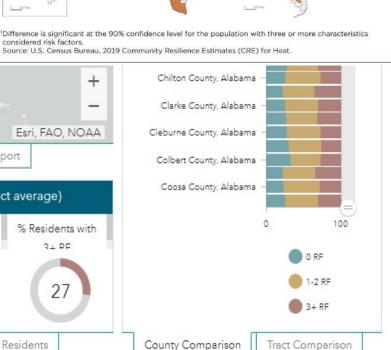
When disasters occur, recovery depends on the community's ability to withstand the effects of the event. In order to facilitate disaster preparedness, the Census Bureau has developed new small area estimates, identifying communities where resources and information may effectively mitigate the impact of disasters.

individual and household characteristics are determining factors in the differential impact of a disaster. Some groups are less likely to have the capacity and resources to overcome the obstacles presented during a hazardous event. Resilience estimates can aid stakeholders and public health officials in modeling these differential impacts and developing plans to reduce a disaster's potential effects

Individual and household characteristics from the 2018 American Community Survey (ACS) were modeled, in combination with publiclyavailable data from the 2018 National Health Interview Survey (NHIS), to provide tract and county level estimates.

information on Census Bureau





Difference¹ from

Not significantly

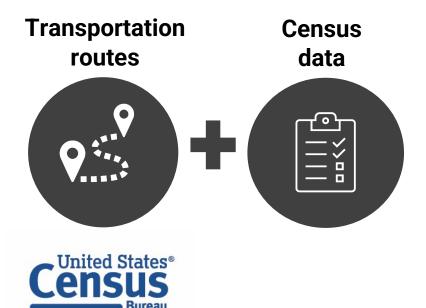
FRANCIS SCOTT KEY BRIDGE COLLAPSE



ROADMAP

ROute Analysis for Disaster Management And Preparedness

Part of the broader Community Resilience Estimates program, this method uses road network data to plot driving, walking or other transportation routes to assist members of the public and government partners in emergency management.



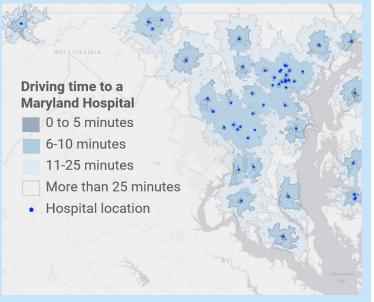
Transportation Routes

Following the collapse of the Key Bridge in Baltimore, analysts identified a subset of American Community Survey respondents who likely drove over the bridge as part of their regular commute to work. This was accomplished by plotting the likely driving route to work for every car-commuting ACS respondent who lived or worked in Baltimore city or County. This revealed distinct sociodemographic differences between bridge and non-bridge commuters.



Critical Infrastructure

This method can be used to identify catchment areas for critical infrastructure. In this analysis, shaded areas represents areas represent driving times to the nearest hospital in the state of Maryland. The same analysis could be applied to any set of geographic points such as shelters or community cooling centers during heat waves. For disaster route contingency planning, the underlying map data can be transformed to simulate when key road networks are altered.















THANK YOU!

