

Establishing Priorities for the Privacy Budget: The Case for Good Age Data

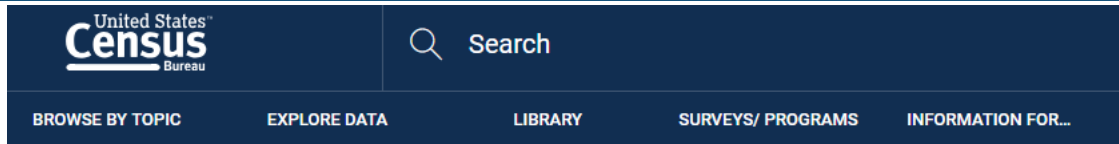
**Emergency Preparedness and the 2010
Census Demonstration Product**

Dec. 12th 2019

**Joseph J. Salvo
NYC Department of City Planning
Population Division**



What is the Census Bureau's Primary Mission?



// Census.gov / About the Bureau / What We Do

About the Bureau

Who We Are

What We Do

Combining Data

Business Opportunities

Census Careers

Advisors, Centers and
Research Programs

Congressional &
Intergovernmental
Affairs



What We Do

Our Mission

The Census Bureau's mission is to serve as the nation's leading provider of quality data about its people and economy.

Our Mission

The Census Bureau's mission is to serve as the nation's leading provider of quality data about its people and economy.

Twin Pillars: Achieving a Balance

United States
Census
Bureau

 Search

BROWSE BY TOPIC

EXPLORE DATA

LIBRARY

// Census.gov / About the Bureau / What We Do

About the Bureau

Who We Are

What We Do

 What We Do

Data Utility

Our Mission

The Census Bureau’s mission is to serve as the nation’s leading provider of quality data about its people and economy.



Title 13, U.S. Code

The Census Bureau is bound by Title 13 of the United States Code. These laws not only provide authority for the work we do, but also provide strong protection for the information we collect from individuals and businesses.

Title 13 provides the following protections to individuals and businesses:

- Private information is never published. It is against the law to disclose or publish any private information that identifies an individual or business such, including names, addresses (including GPS coordinates), Social Security Numbers, and telephone numbers.

Disclosure Avoidance

- The Census Bureau collects information to produce statistics. Personal information cannot be released against the law and government agencies cannot use the information for anything other than the purpose for which it was collected.
- Census Bureau employees are sworn to protect confidentiality. People sworn to uphold Title 13 are legally required to maintain the confidentiality of our data even after they leave the Bureau. Your privacy is sworn for life to protect your information and understands that the penalties for violation are for a lifetime.
- Violating the law is a serious offense. Anyone who violates this law will be fined, imprisoned, or both, including a federal prison sentence and a fine of up to \$250,000.

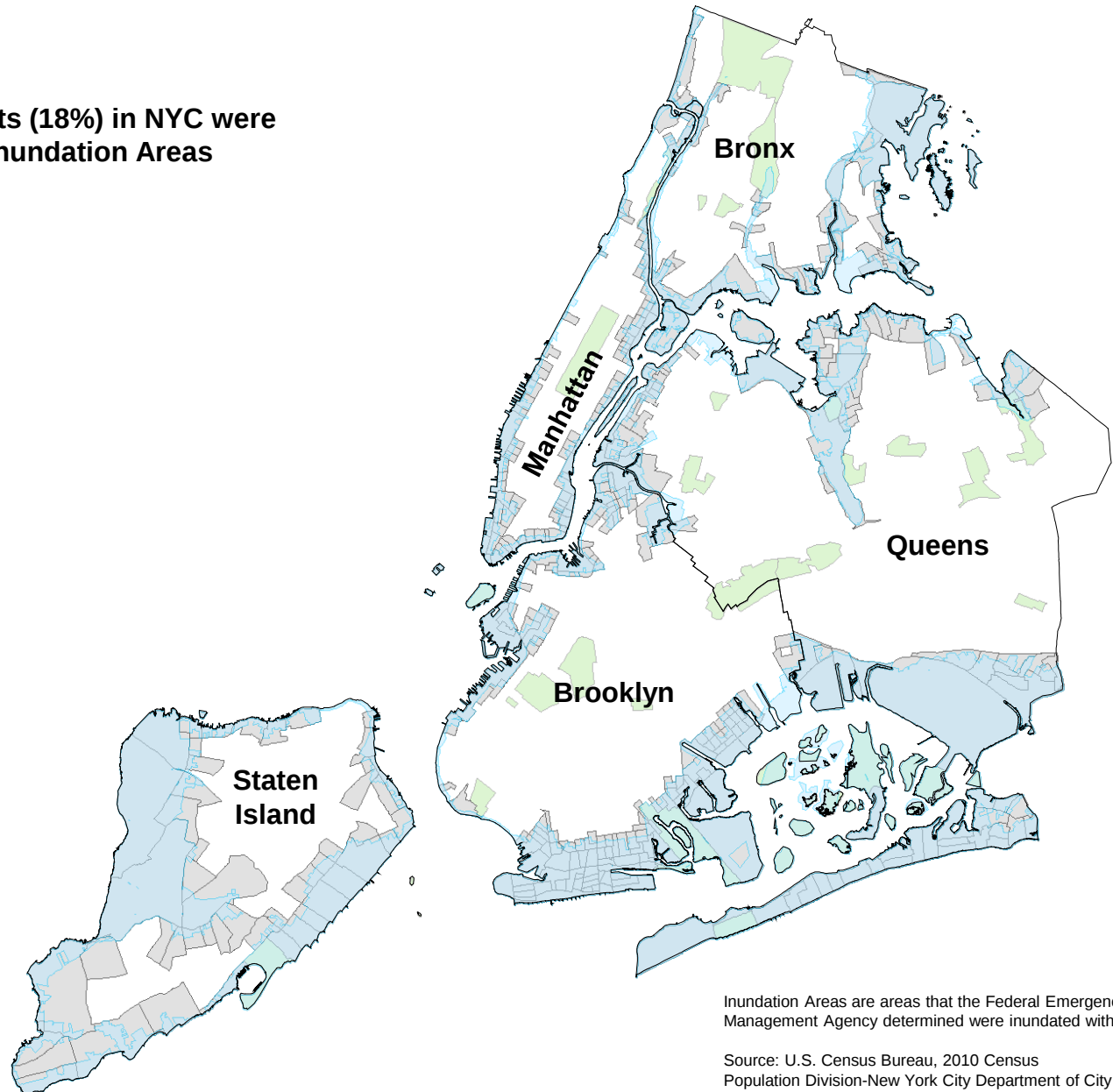
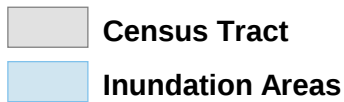




Emergency Preparedness and the Older Population of New York City

Hurricane Sandy Inundation Areas in New York City

394 of 2165 Census Tracts (18%) in NYC were in the Hurricane Sandy Inundation Areas



Inundation Areas are areas that the Federal Emergency Management Agency determined were inundated with flood waters

Source: U.S. Census Bureau, 2010 Census
Population Division-New York City Department of City Planning

Hazard Mitigation Strategies Require Serviceable Data

Mitigation Strategy

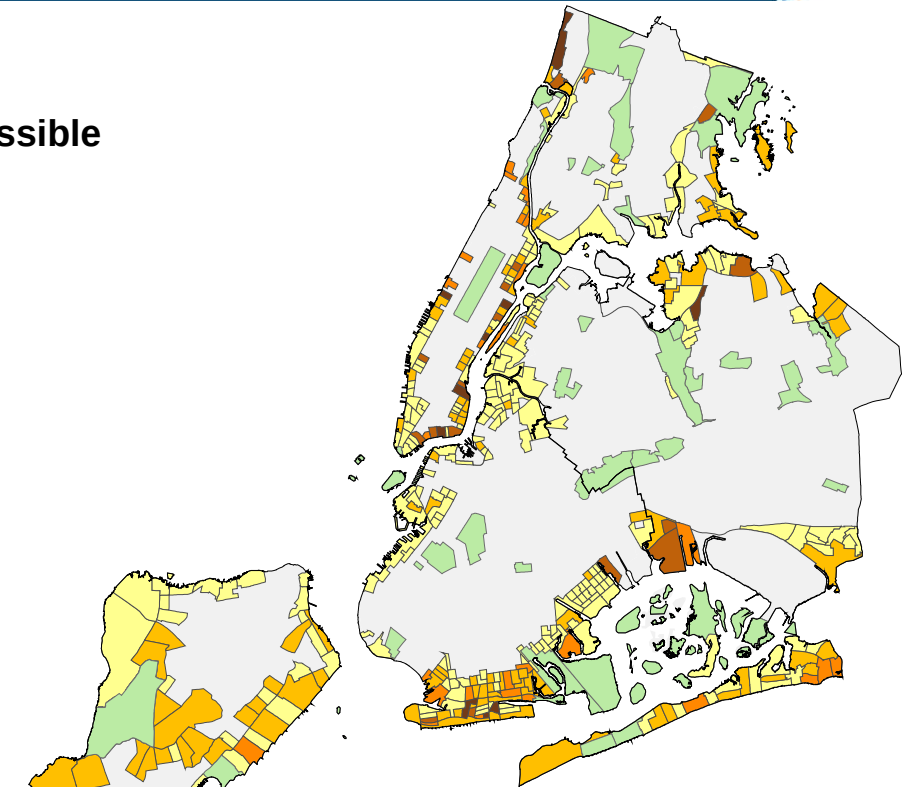
Ensure coastal storm shelters are physical accessible

Lead agency

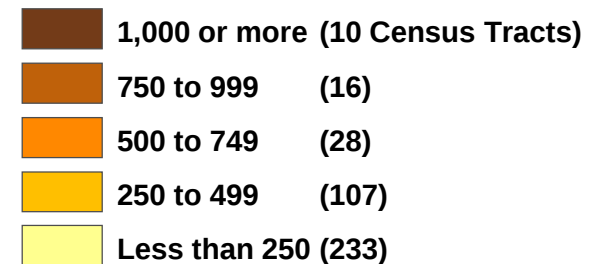
Mayor's Office for People with Disabilities

Importance of good data

Need characteristics of local population



Population 75 years and over



Inundation Areas are areas that the Federal Emergency Management Agency determined were inundated with flood waters

Source: U.S. Census Bureau, 2010 Census
Population Division-New York City Department of City Planning

Hazard Mitigation Strategies Require Serviceable Data

Mitigation Strategy

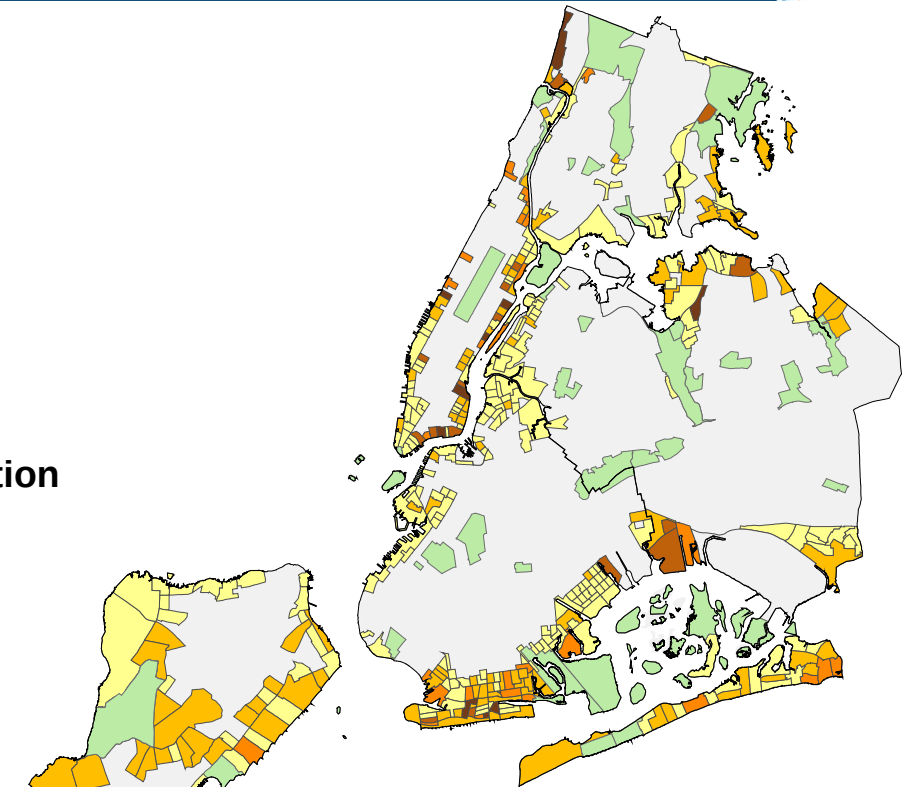
Establish evacuation fleet of 50 buses

Lead agency

Metropolitan Transportation Authority

Importance of precise population data

Need to identify areas with a large senior population



Population 75 years and over

Dark Brown	1,000 or more	(10 Census Tracts)
Brown	750 to 999	(16)
Orange	500 to 749	(28)
Yellow-Orange	250 to 499	(107)
Light Yellow	Less than 250	(233)

Inundation Areas are areas that the Federal Emergency Management Agency determined were inundated with flood waters

Source: U.S. Census Bureau, 2010 Census
Population Division-New York City Department of City Planning

Hazard Mitigation Strategies Require Serviceable Data

Mitigation Strategy

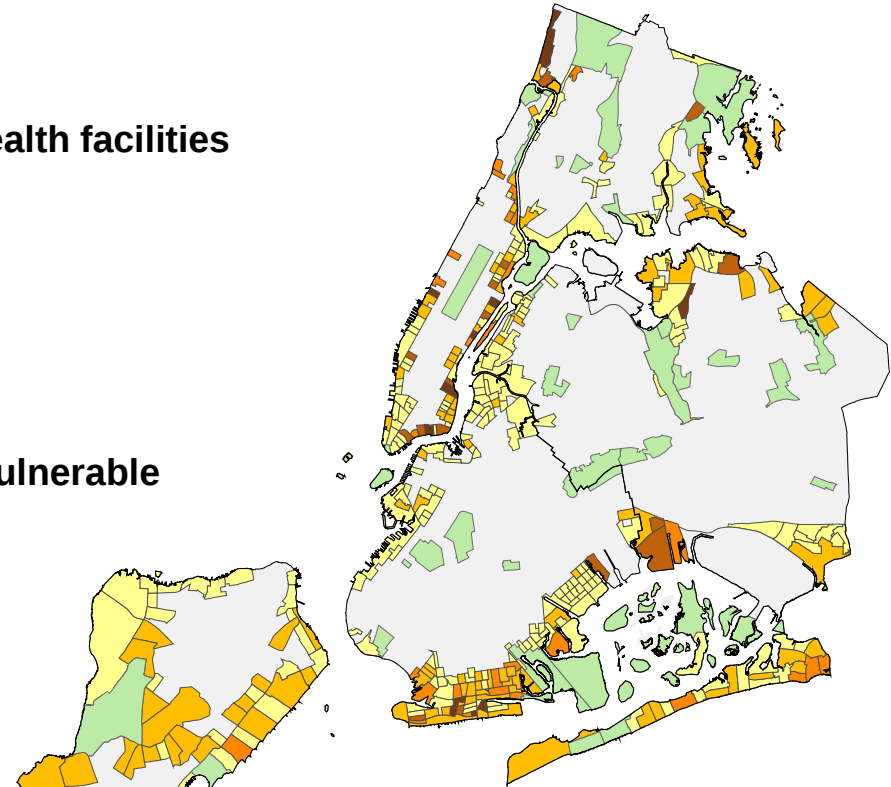
Install emergency generators at Department of Health facilities

Lead agency

Department of Health and Mental Hygiene

Importance of precise population data

Need to identify neighborhoods with significant vulnerable populations



Population 75 years and over	
1,000 or more (10 Census Tracts)	
750 to 999	(16)
500 to 749	(28)
250 to 499	(107)
Less than 250	(233)

Inundation Areas are areas that the Federal Emergency Management Agency determined were inundated with flood waters

Source: U.S. Census Bureau, 2010 Census
Population Division-New York City Department of City Planning

Population 75 and Over Hurricane Sandy Inundation Areas in New York City

2010 Published Data

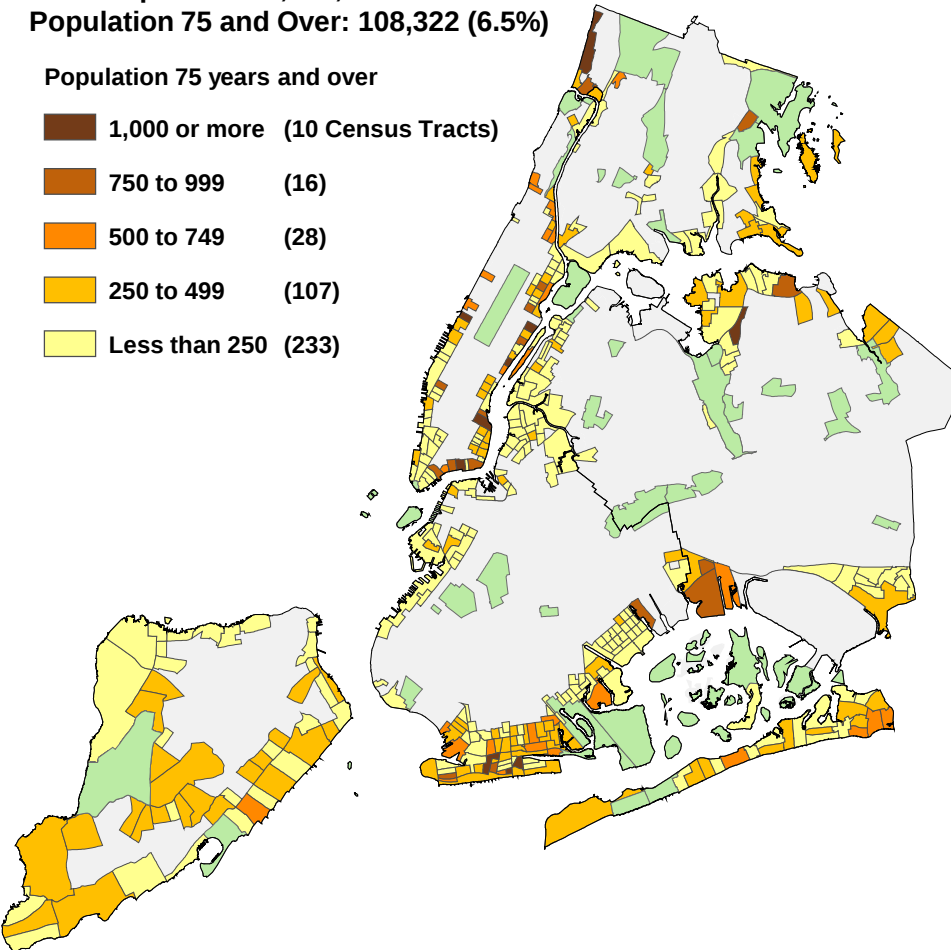
In Hurricane Sandy Inundation Areas

Total Population: 1,659,347

Population 75 and Over: 108,322 (6.5%)

Population 75 years and over

1,000 or more	(10 Census Tracts)
750 to 999	(16)
500 to 749	(28)
250 to 499	(107)
Less than 250	(233)



Inundation Areas are areas that the Federal Emergency Management Agency determined were inundated with flood waters

Source: U.S. Census Bureau, 2010 Census
Population Division-New York City Department of City Planning

Population 75 and Over

Hurricane Sandy Inundation Areas in New York City

2010 Published Data

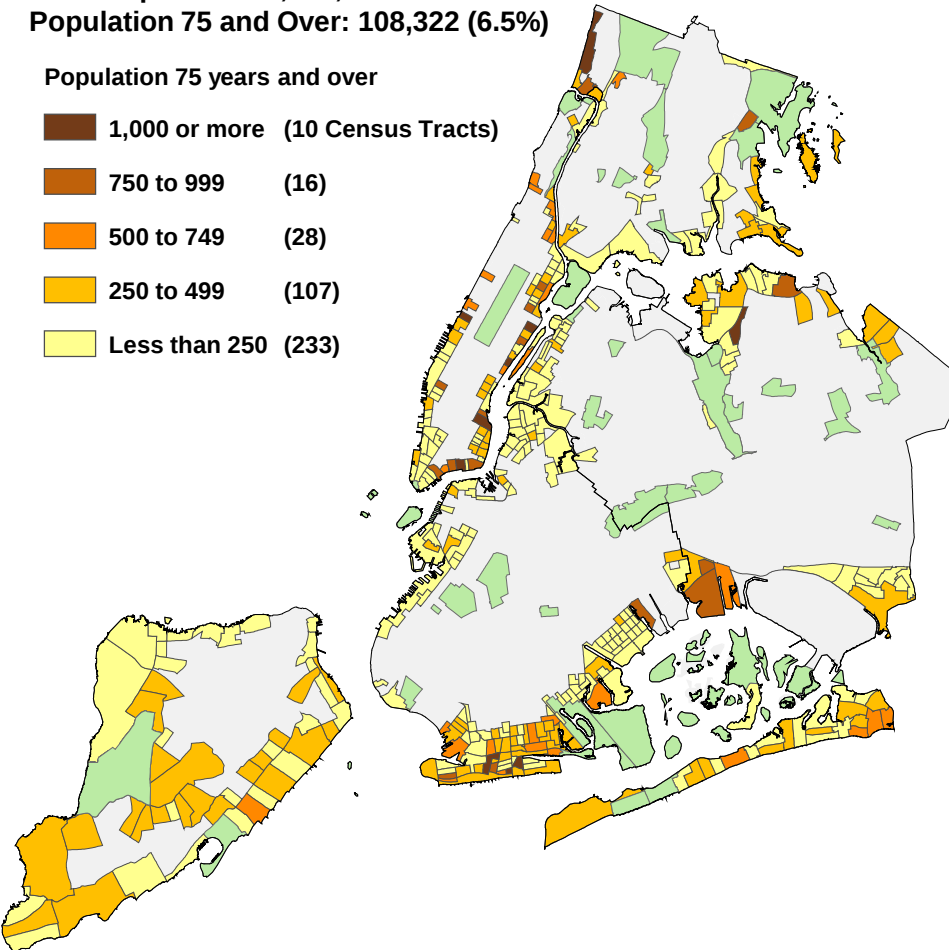
In Hurricane Sandy Inundation Areas

Total Population: 1,659,347

Population 75 and Over: 108,322 (6.5%)

Population 75 years and over

1,000 or more	(10 Census Tracts)
750 to 999	(16)
500 to 749	(28)
250 to 499	(107)
Less than 250	(233)



Almost one-half of tracts in the Hurricane Sandy Inundation Areas differed by 25% or more

Inundation Areas are areas that the Federal Emergency Management Agency determined were inundated with flood waters

Source: U.S. Census Bureau, 2010 Census
Population Division-New York City Department of City Planning 10

Population 75 and Over

Hurricane Sandy Inundation Areas in New York City

2010 Published Data

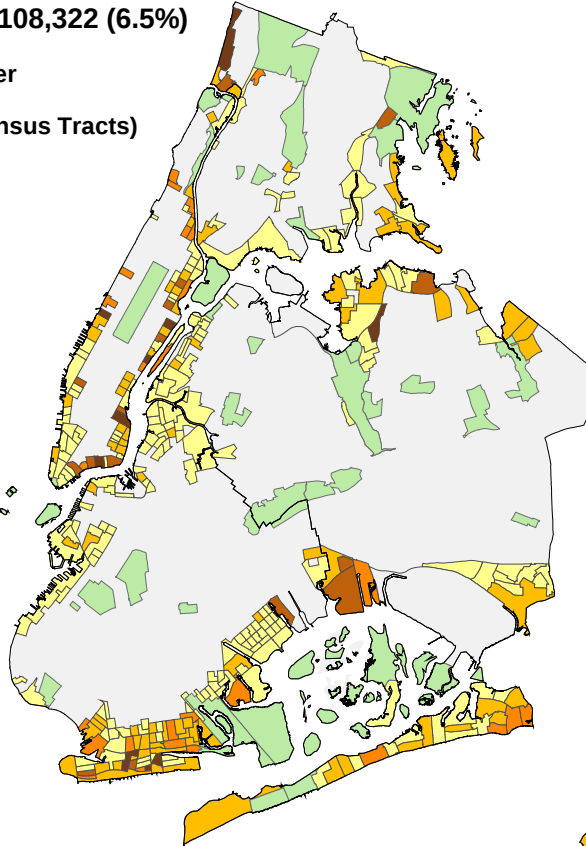
In Hurricane Sandy Inundation Areas

Total Population: 1,659,347

Population 75 and Over: 108,322 (6.5%)

Population 75 years and over

1,000 or more	(10 Census Tracts)
750 to 999	(16)
500 to 749	(28)
250 to 499	(107)
Less than 250	(233)



2010 Demonstration Product

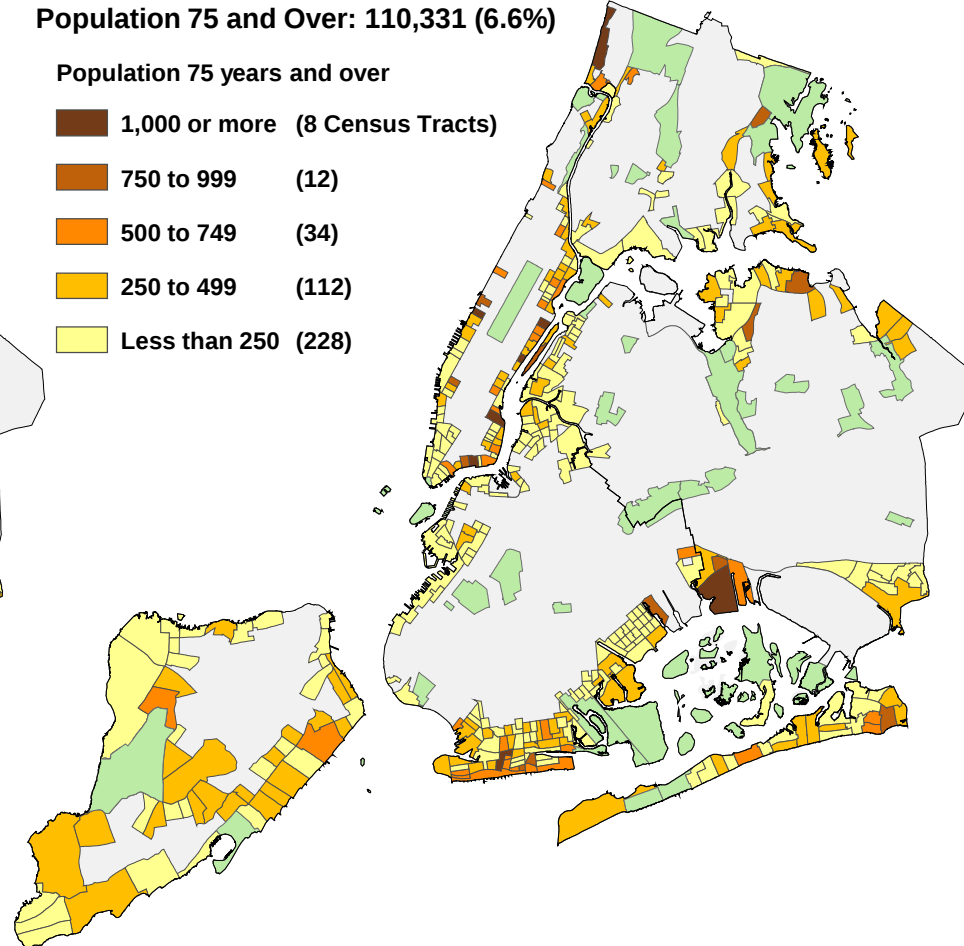
In Hurricane Sandy Inundation Areas

Total Population: 1,659,421

Population 75 and Over: 110,331 (6.6%)

Population 75 years and over

1,000 or more	(8 Census Tracts)
750 to 999	(12)
500 to 749	(34)
250 to 499	(112)
Less than 250	(228)



Almost one-half of tracts in the Hurricane Sandy Inundation Areas differed by 25% or more

Inundation Areas are areas that the Federal Emergency Management Agency determined were inundated with flood waters

Source: U.S. Census Bureau, 2010 Census and Demonstration Product
Population Division-New York City Department of City Planning

Lessons Learned

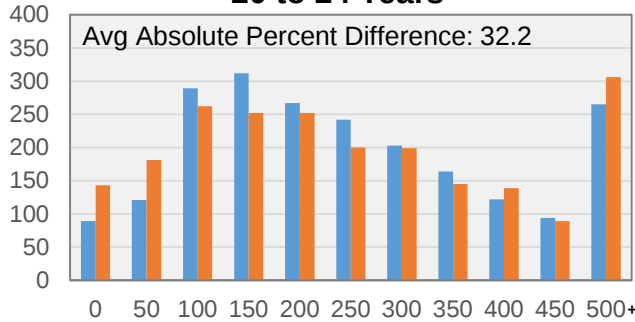
- 1. Summary statistics are a useful metric but the real litmus test is whether the available data are useful for the task at hand.**
- 2. No universal metric will suffice when making decisions on what is and what is not useful.**
- 3. But, given the timeline, a representative set of real-life applications must, of necessity, inform priorities.**

Aggregation of Age Groups for Census Tracts

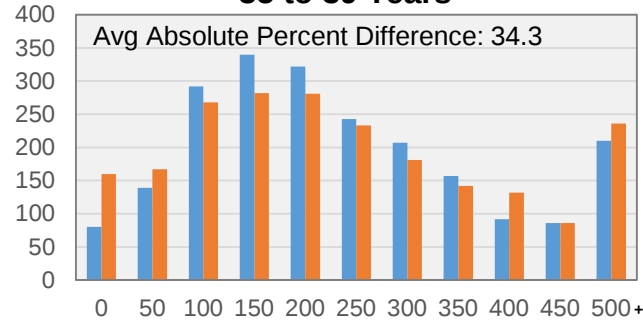
Frequency Distributions for Selected Age Groups

NYC Census Tracts, 2010 Published vs. Demonstration

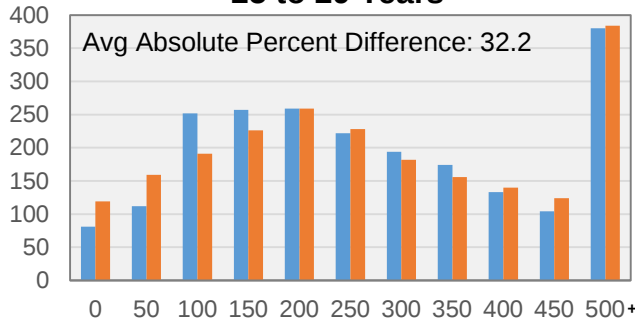
20 to 24 Years



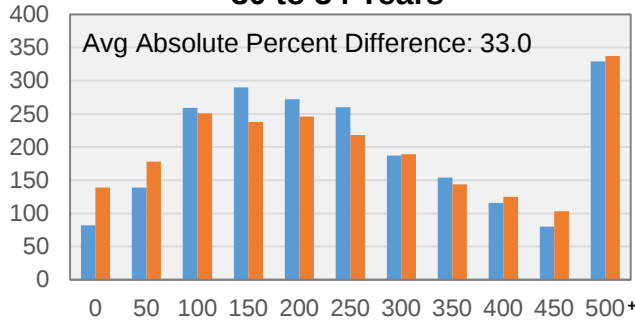
35 to 39 Years



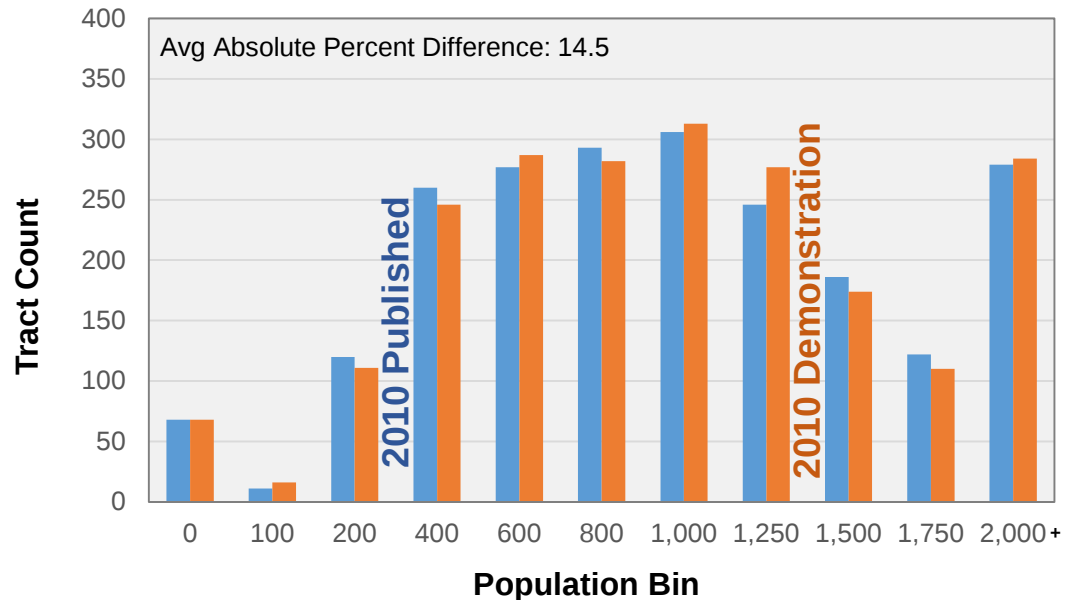
25 to 29 Years



30 to 34 Years



20 to 39 Years



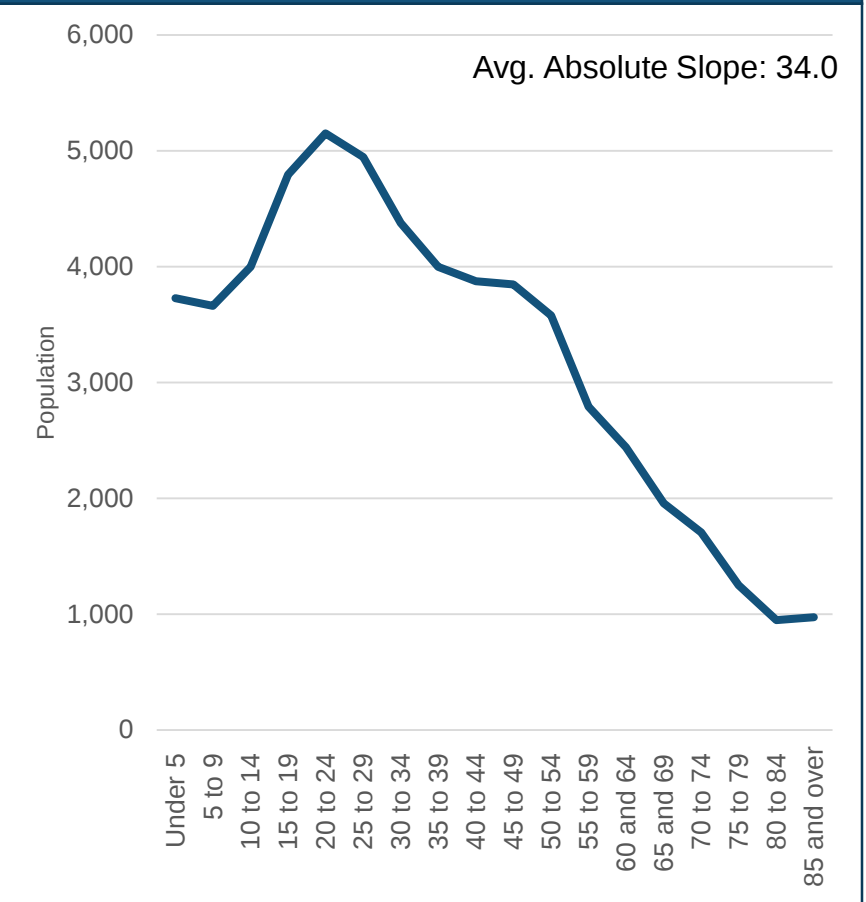


Aggregation to Larger Geographic Areas: Neighborhoods

Age Distribution for East Harlem North

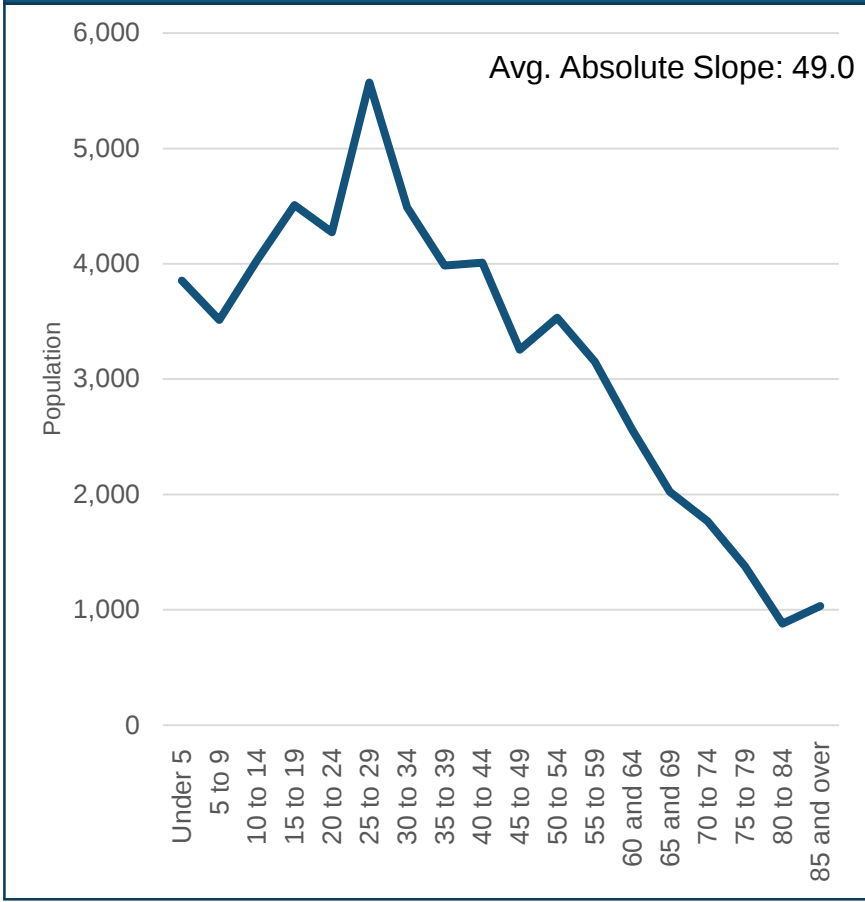


2010 Published Data



Total Population: 58,019

2010 Demonstration Product



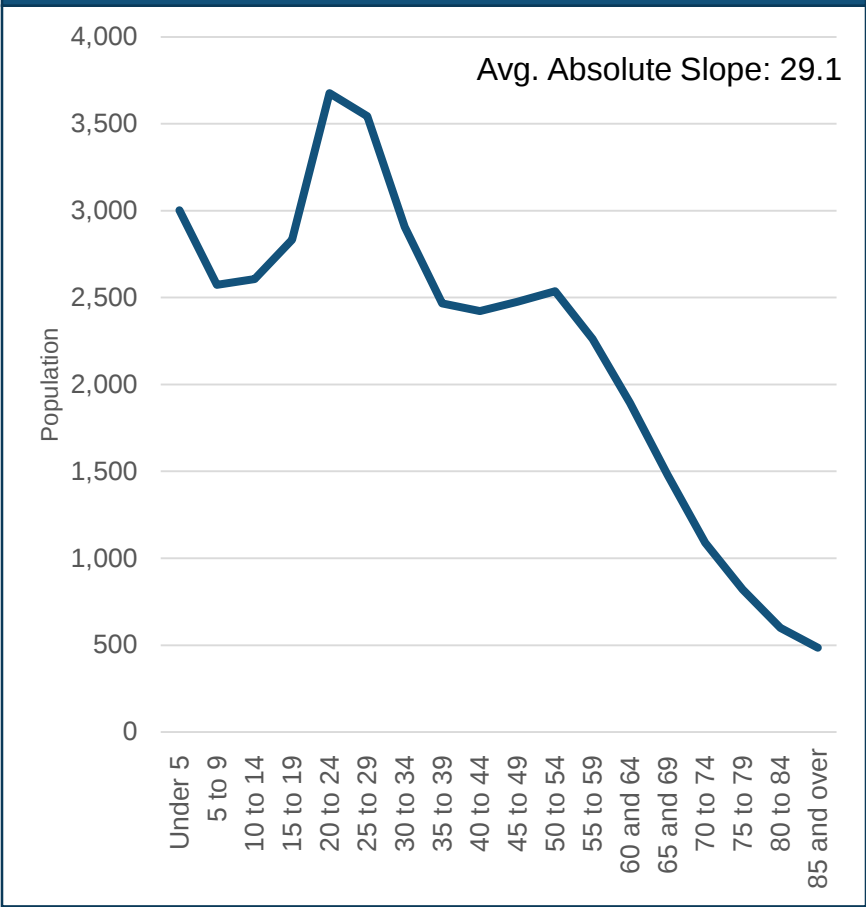
Total Population: 57,812

Average Absolute Percent Difference: 6.4

Age Distribution for Crown Heights South

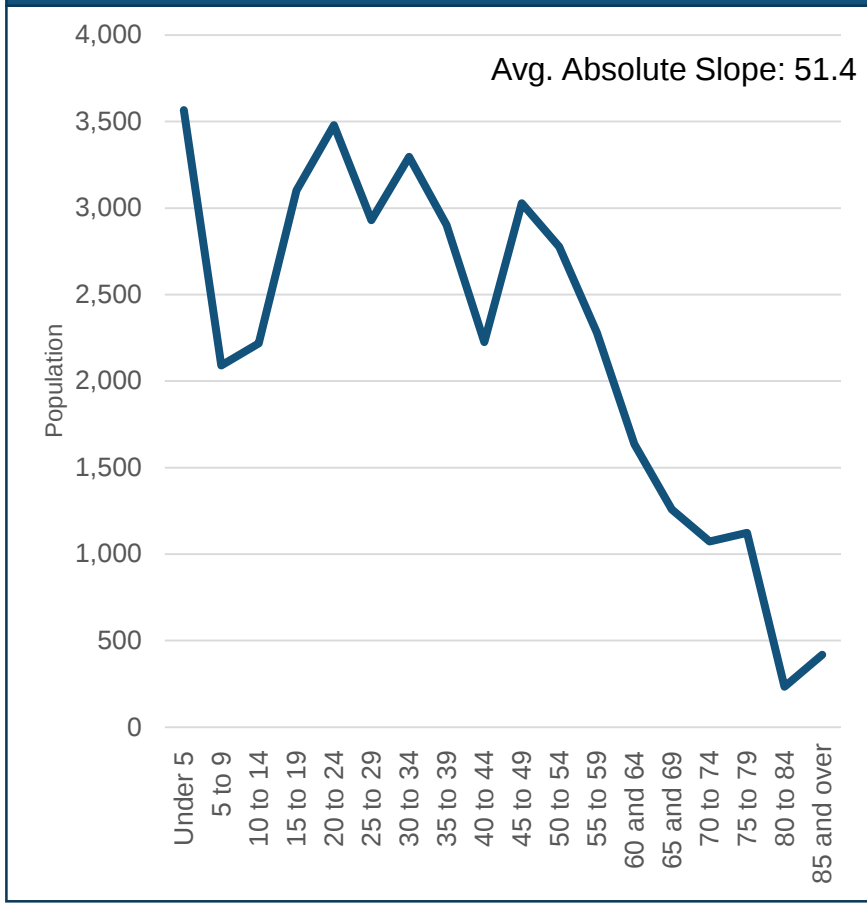


2010 Published Data



Total Population: 39,670

2010 Demonstration Product



Total Population: 39,640

Average Absolute Percent Difference: 16.6

Age: Taking its Share of Epsilon



From the standpoint of local government planning, age is the foundation for so much of what we do. For example, the identification of at-risk populations for:

- a) Drawing school zones**
- b) Projecting students affected by new housing development**
- c) Assessing the impact of changes in land use and zoning**
- d) Calculating vital rates to monitor public health**
- e) Intercensal population estimates**
- f) Projecting populations**



JSalvo@planning.nyc.gov

www.nyc.gov/population