

# Spatial Equity NYC

A project by  
Transportation Alternatives and the  
MIT Norman B. Leventhal Center





What is spatial equity?







Search for your town

New York

Municipal report →

NY Congressional District 12

Census Block Group 360610126005

# 93

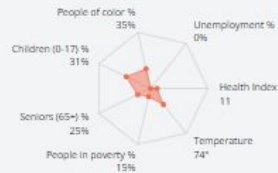
Tree Equity Score

RANK

3,439th of 6,221  
blockgroups in New York

### Score indicators

Priority index



Canopy cover goal: 20%



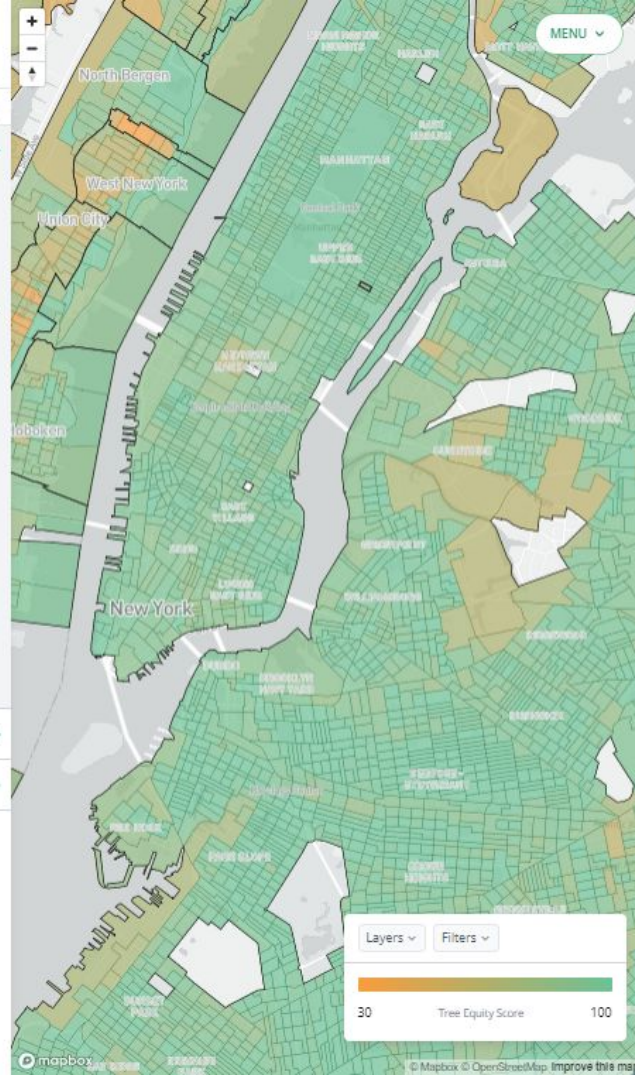
Current canopy cover: 2%

NY Congressional District 12

District report →

New York

State report →



# Data Layers

## **HEALTH:**

Child Asthma ER Visits  
Serious Traffic Injuries  
Air Pollution  
Noise Pollution  
Traffic Fatalities

## **ENVIRONMENT:**

Flooding  
Surface Temperature  
Permeable Surfaces  
Tree Canopy  
Park Access

## **MOBILITY:**

Pedestrian Plazas  
Sidewalk Area  
Bike Parking  
Bus Lanes  
Bus Speeds  
Protected Bike Lanes  
Traffic Volume  
Public Seating

# Data Layers

**CENSUS:** Commute Modes  
Commute Times, by Mode  
Race/Ethnicity  
Poverty Rate  
Vehicle Ownership

# Reliable Data Sources

The logo for NYC OpenData, featuring the text "NYC OpenData" in white on a blue background. "NYC" is in a bold, sans-serif font, and "OpenData" is in a regular, sans-serif font.

**NYC** OpenData

The logo for the United States Census Bureau, featuring the text "United States Census Bureau" in white on a dark blue background. "United States" is in a small, sans-serif font, "Census" is in a large, bold, sans-serif font, and "Bureau" is in a small, sans-serif font below a horizontal line.

United States<sup>®</sup>  
**Census**  
Bureau

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## About the Data

Spatial Equity NYC is a project of  
Transportation Alternatives and MIT.



## About the Data

### Methodology and Data Sources

All of the data on Spatial Equity NYC was collected from existing open data sources; this project aims to make existing data more legible and accessible to the public. The data sources used in this project are listed below. The data was processed and analyzed using open-source GIS software and visualized using React, D3, DeckGL, and Mapbox.

The administrative boundaries used in this analysis include the City Council, Community District Tabulation Areas, and the 2020 Neighborhood Tabulation Areas (both are variants of Community Boards and Neighborhoods in New York that align with census boundaries). In all cases where data was available at all three scales, the direct data source was used. In situations where data was not available, which was often the case for the City Council scale, a standard proportional split method was used to aggregate the data from a smaller scale up to the missing scale.

Data Layers	Source	Year
Asthma	New York City Community Health Survey (CHS)	2017-2019
► Bus Speeds	MTA, State of New York	2023
Bus Lanes	Department of Transportation (DOT)	2023
Parks	New York City Department of Health and Mental Hygiene NYC Tracking Program: Environment and Health Data Portal. [Active Design - Walking Distance to a Park]	2017
Extreme Heat	U.S. Geological Survey	2018
► Permeable Surface Area	Department of Environmental Protection (DEP)	2017
► Noise Pollution	Bureau of Transportation Statistics (BTS), U.S. Department of Transportation (USDOT)	2020
Bike Parking	Department of Transportation (DOT)	2023



# Live Demo

