The background image shows a park scene with several trees, some with green leaves and others bare. In the background, a large, light-colored building with a gabled roof is visible. The text is overlaid on this image.

# Takoma Park Tree Canopy Assessment 2018

Excerpted from presentation provided to Takoma Park by  
Noah Ayles, University of Vermont  
March 23, 2019

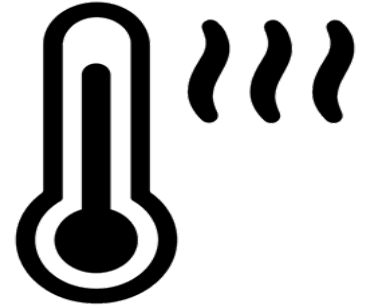
# Why do we care about trees?



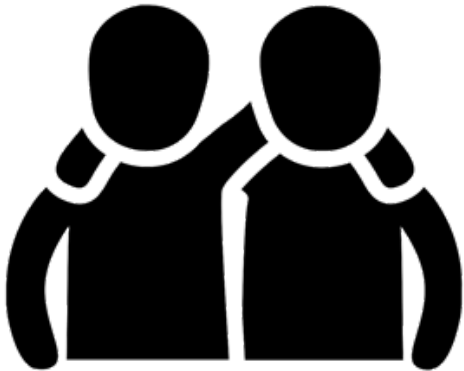
**Wildlife Habitat**



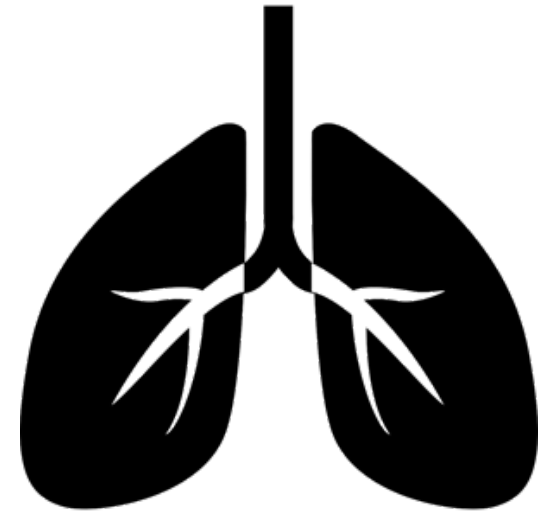
**Stormwater Runoff**



**Urban Heat Island**

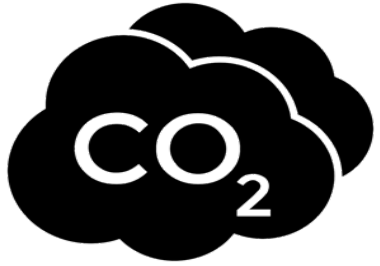


**Social Cohesion**



**Air Quality**

# What is our tree canopy worth?



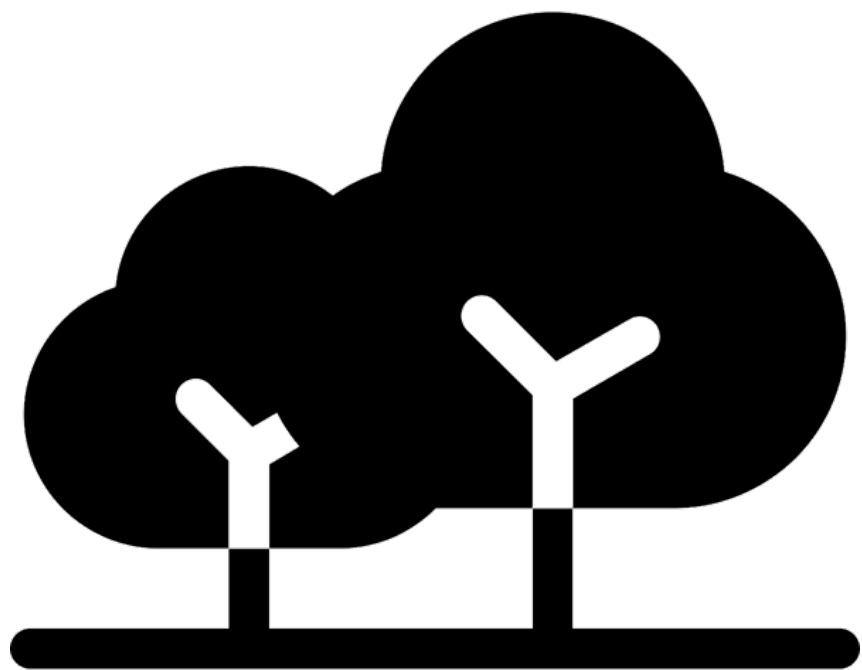
**Carbon Storage: \$4,278,690**



**Air Pollution Removal: \$234,072**



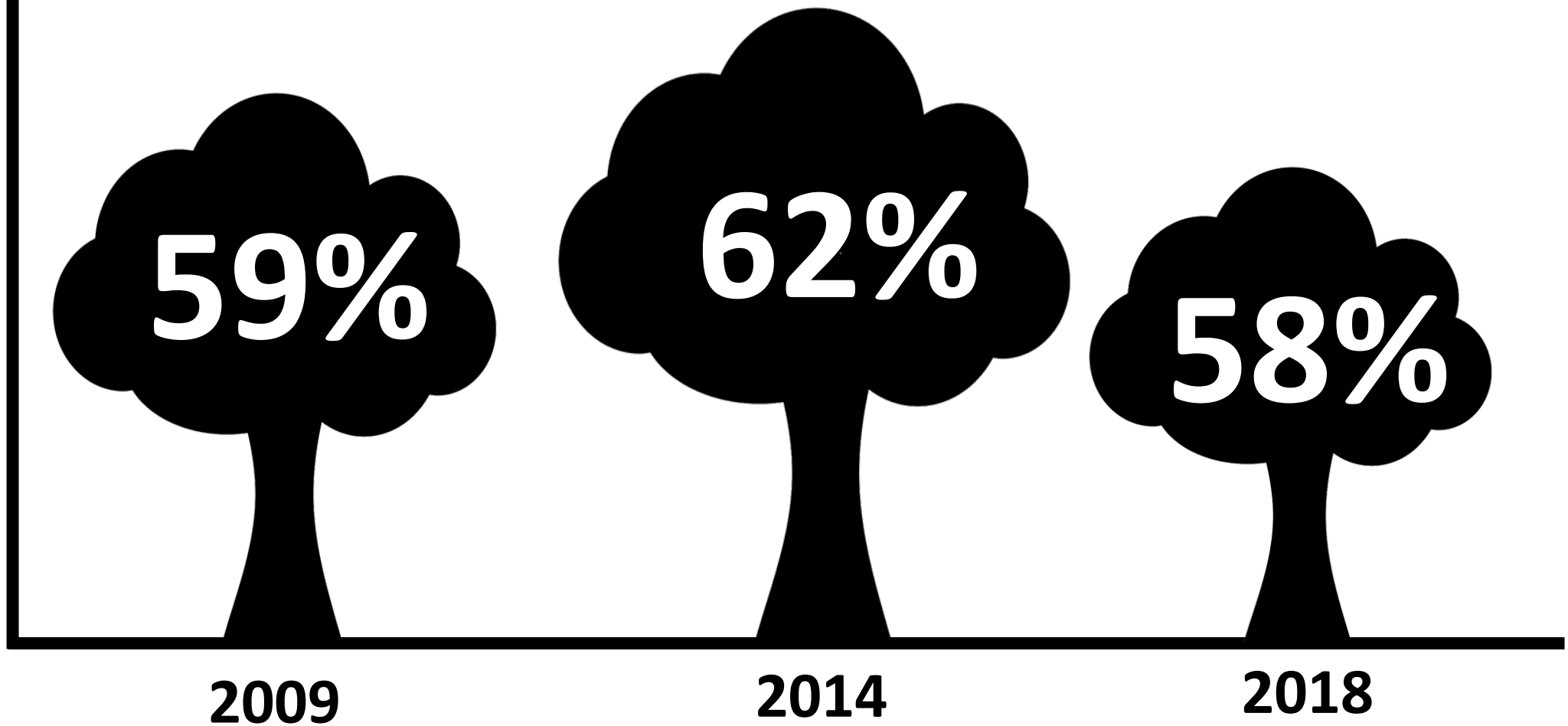
**Avoided Runoff: \$76,473**



58%

% of Takoma Park  
covered by tree canopy  
2018

# Tree Canopy % Comparison



*\* Based on land area (excludes water)*



An aerial photograph of a suburban neighborhood. The landscape is dominated by dense green trees. Scattered throughout the foliage are numerous houses with various roof colors, including grey, brown, and blue. A network of roads and streets is visible, winding through the residential areas. In the upper left, there are some larger, more industrial-looking buildings and parking lots. The overall scene depicts a typical suburban residential area with a high density of trees.

Aerial Image - 2017



# LIDAR Image – Tree Canopy & Land Cover



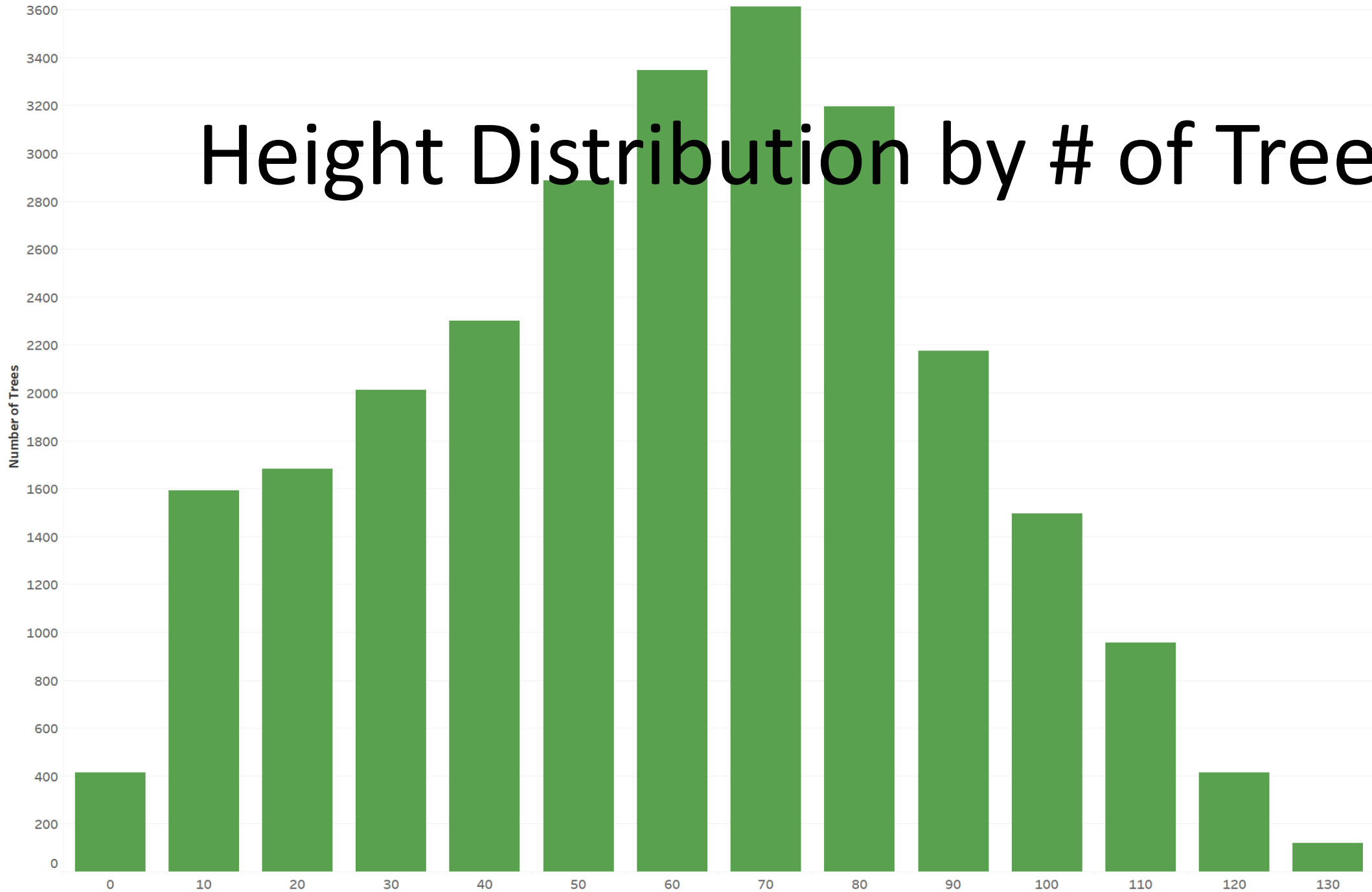


# Tree Canopy Distribution by Height





# Height Distribution by # of Trees

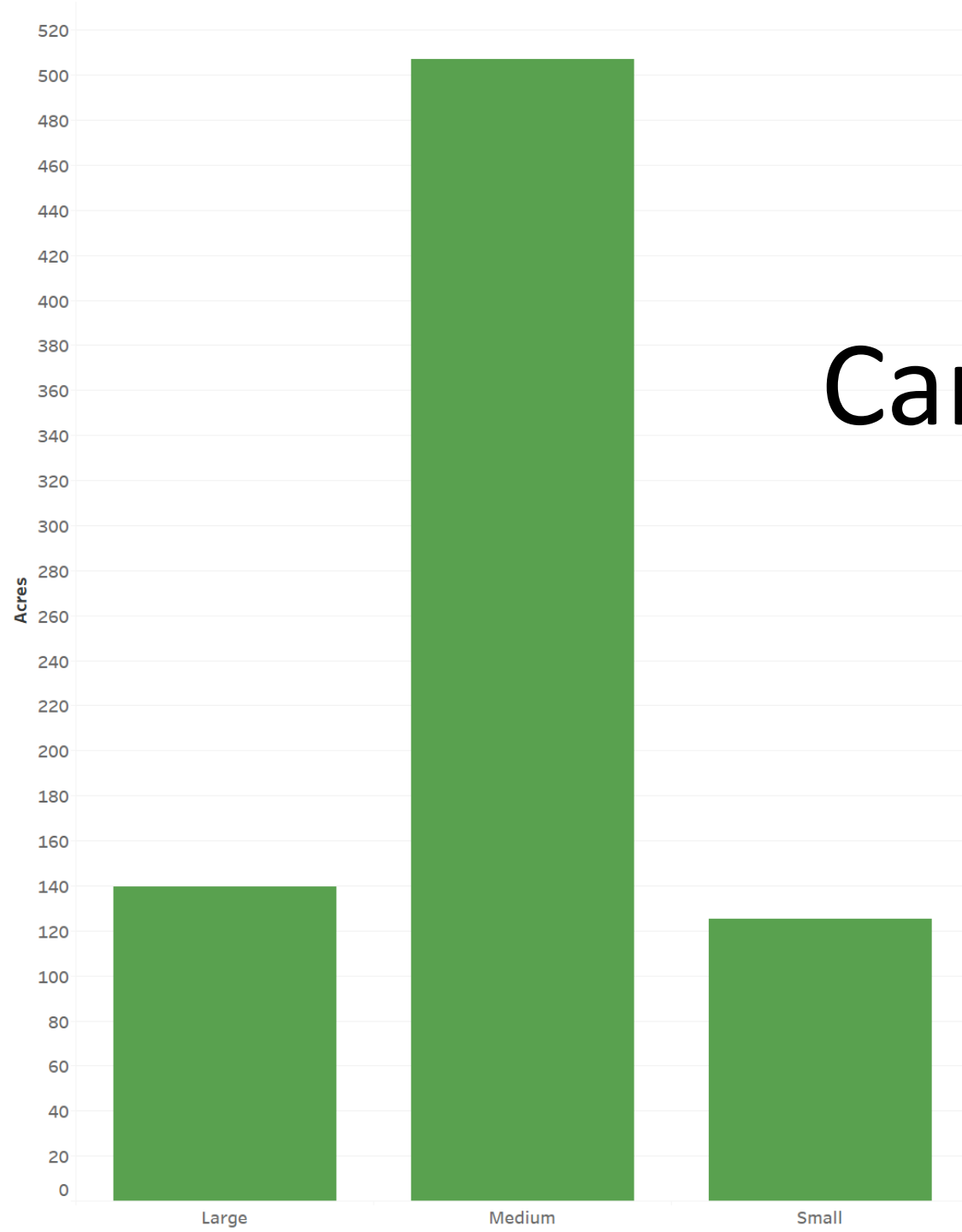




# Canopy Distribution by Patch Class



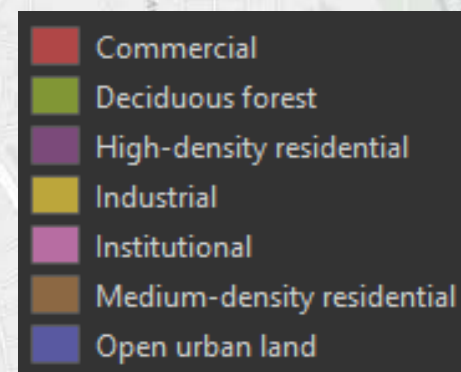
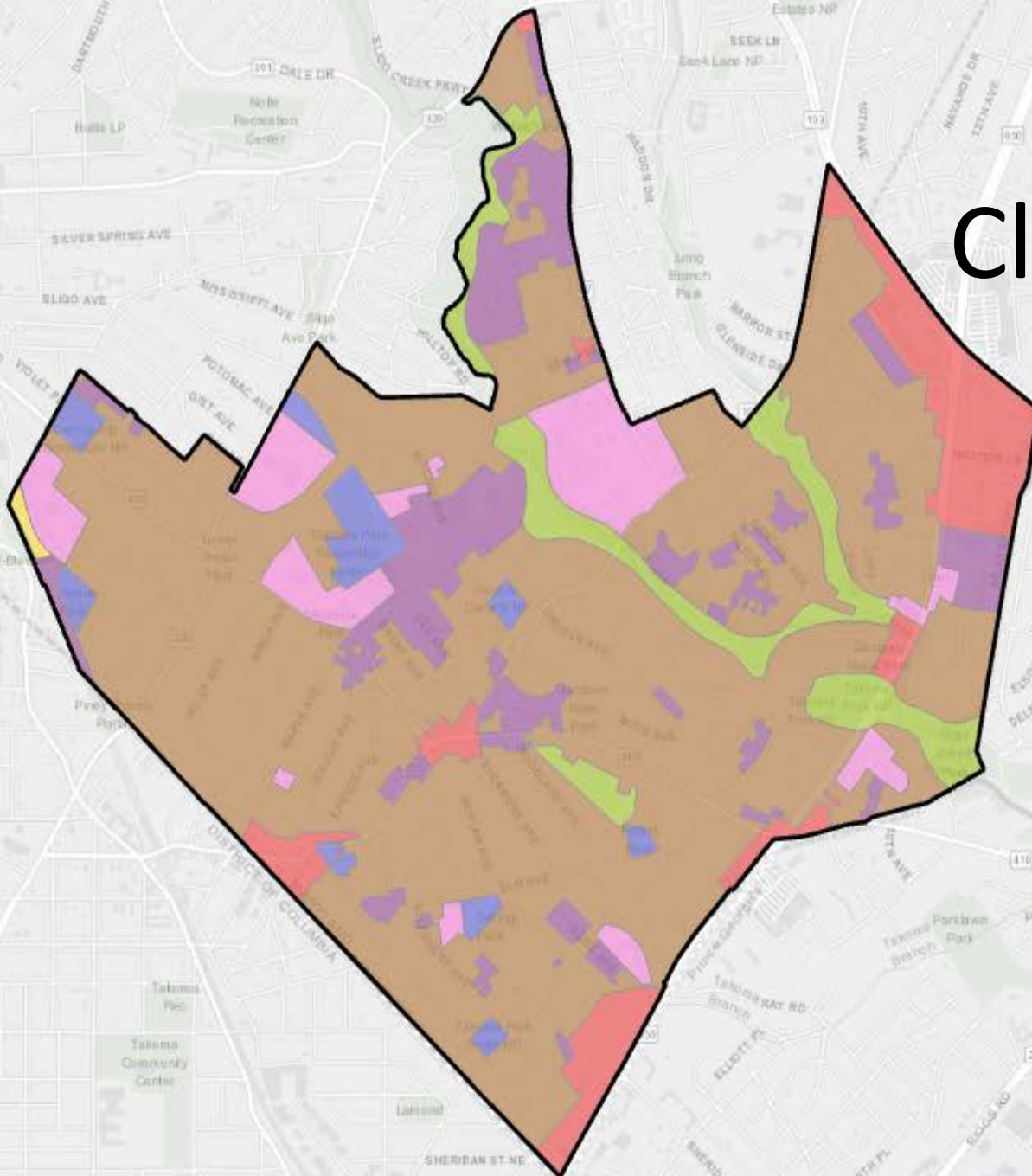




# Canopy Patch Class by Acres

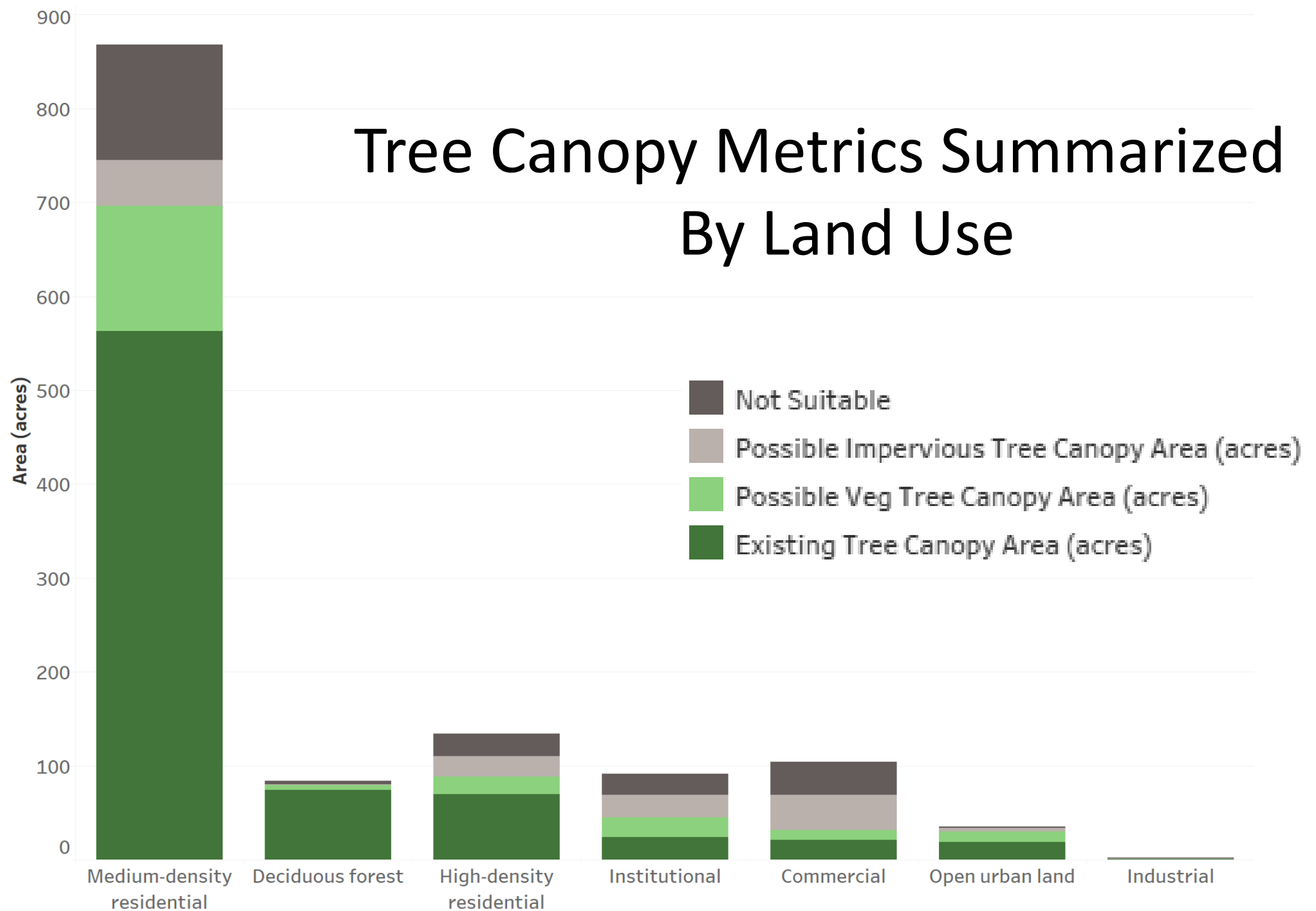


# Land Use Classification and Distribution

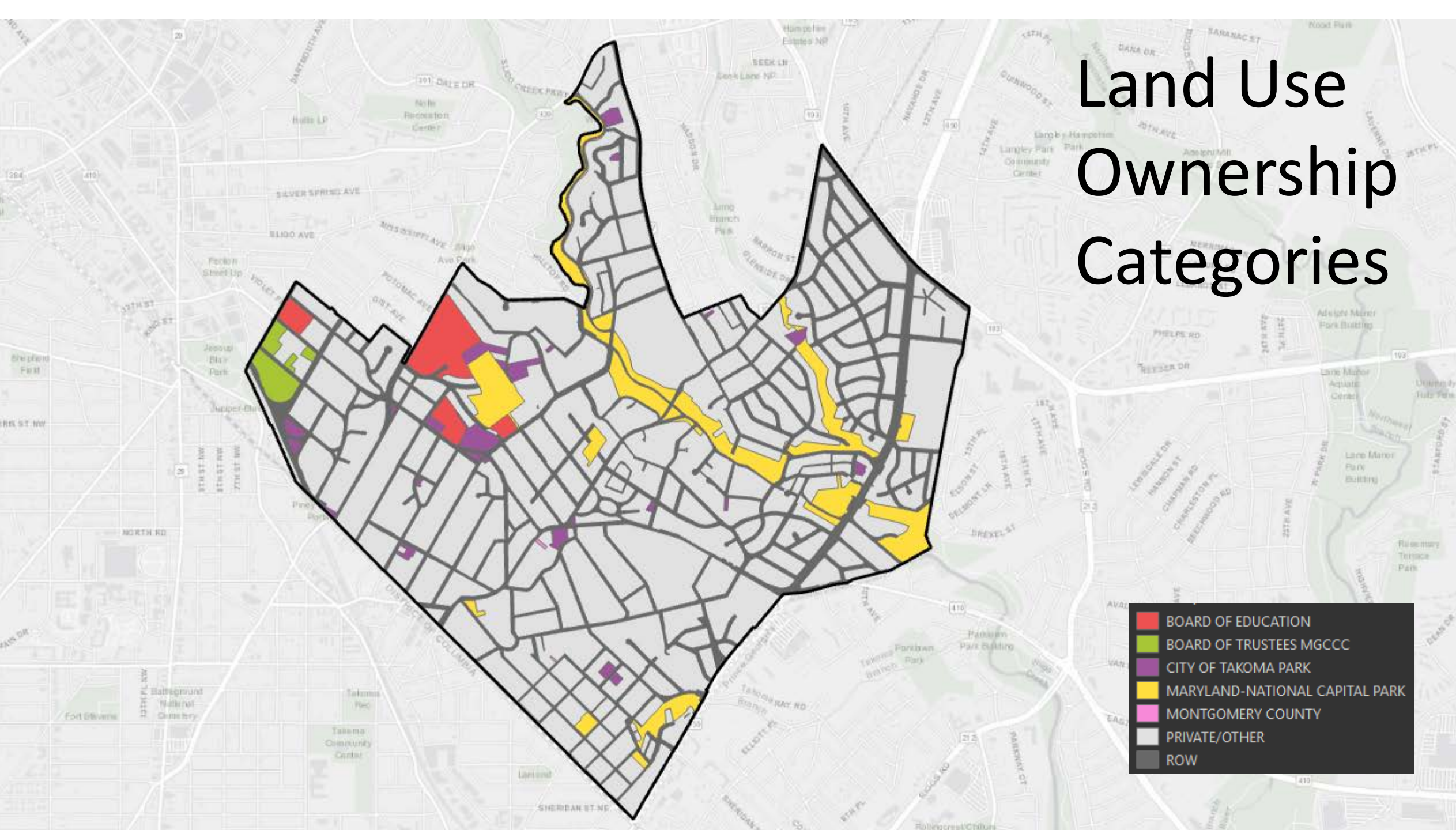




# Tree Canopy Metrics Summarized By Land Use

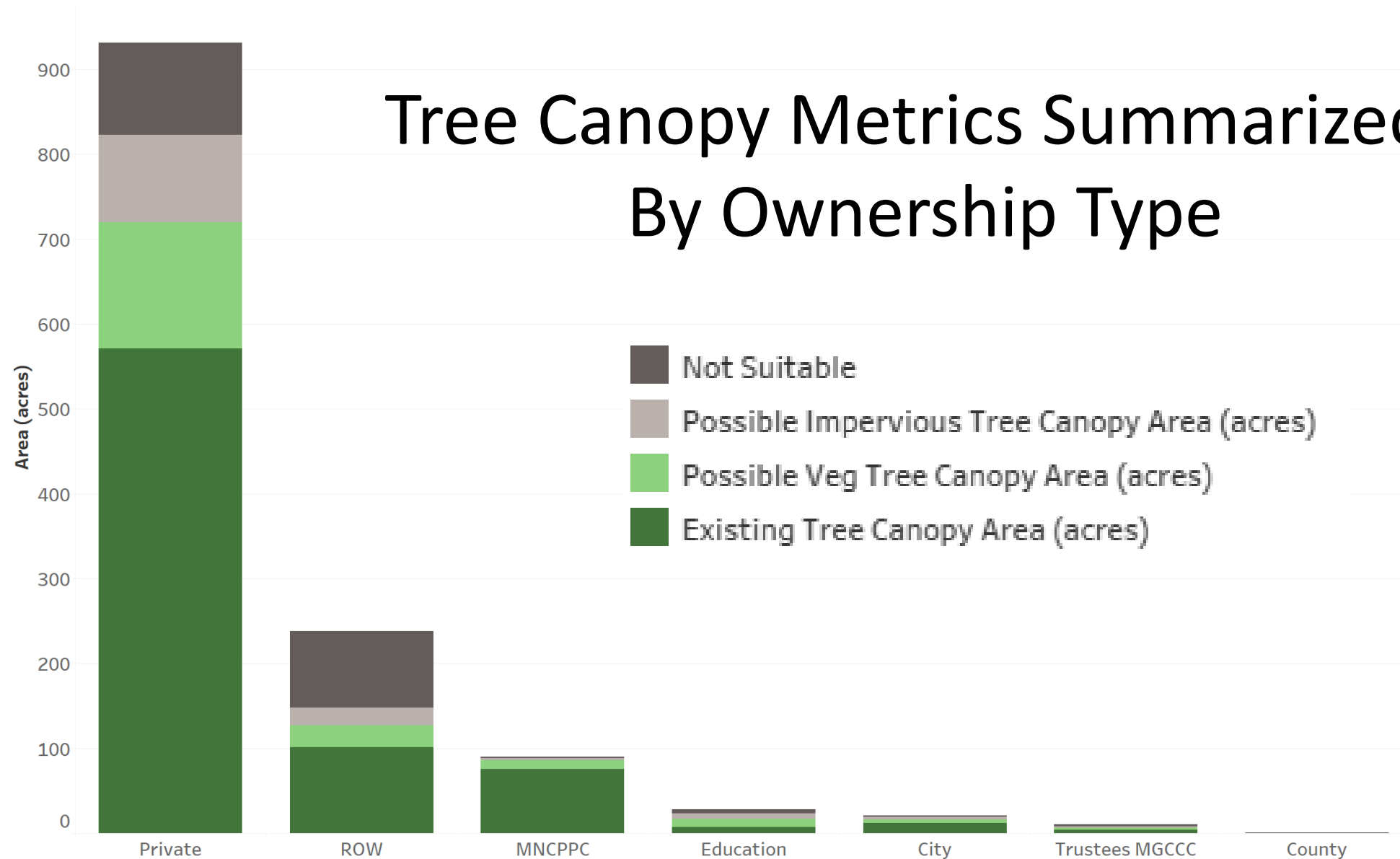


# Land Use Ownership Categories





# Tree Canopy Metrics Summarized By Ownership Type

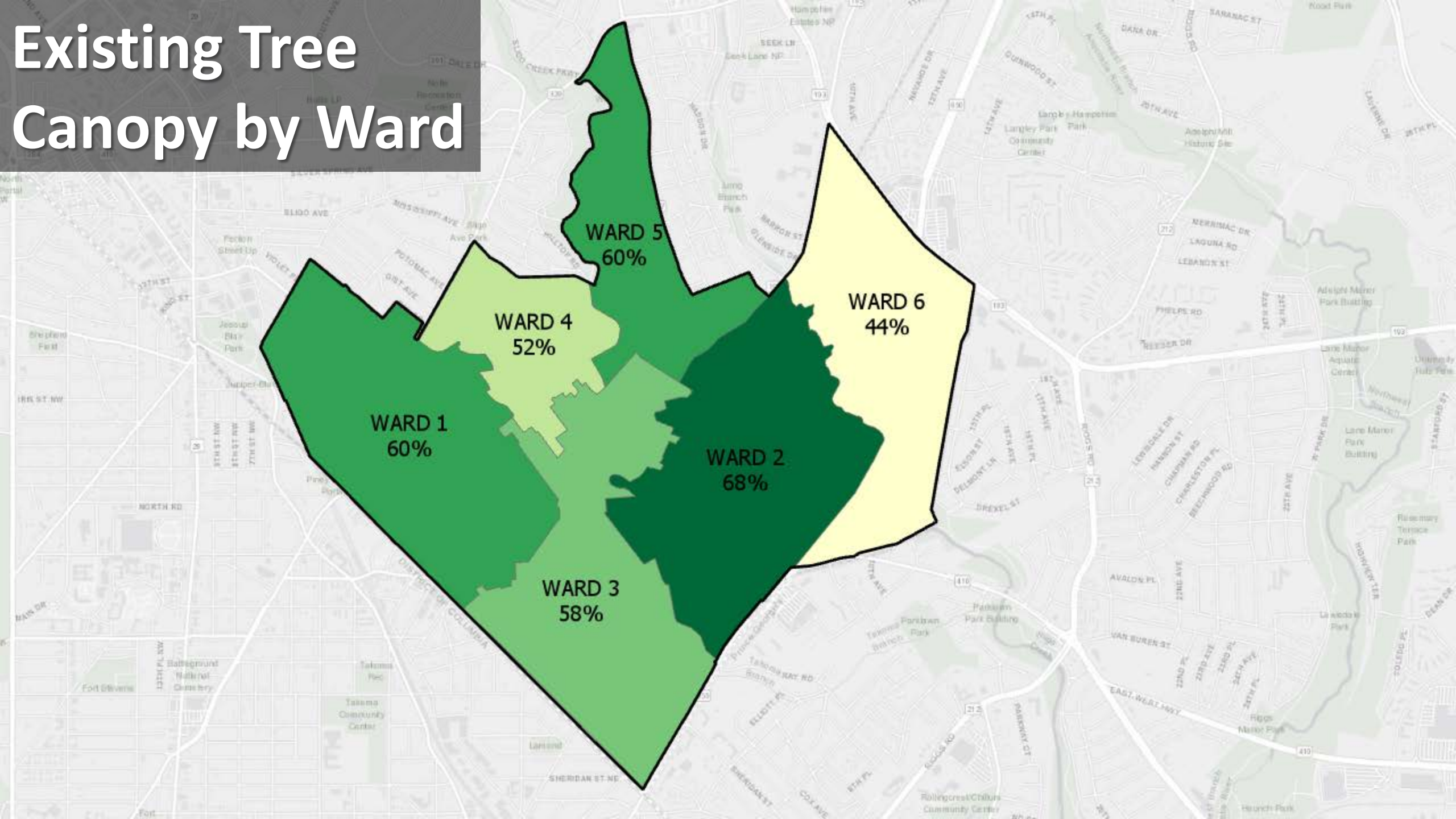


# Existing Tree Canopy By Ownership Type

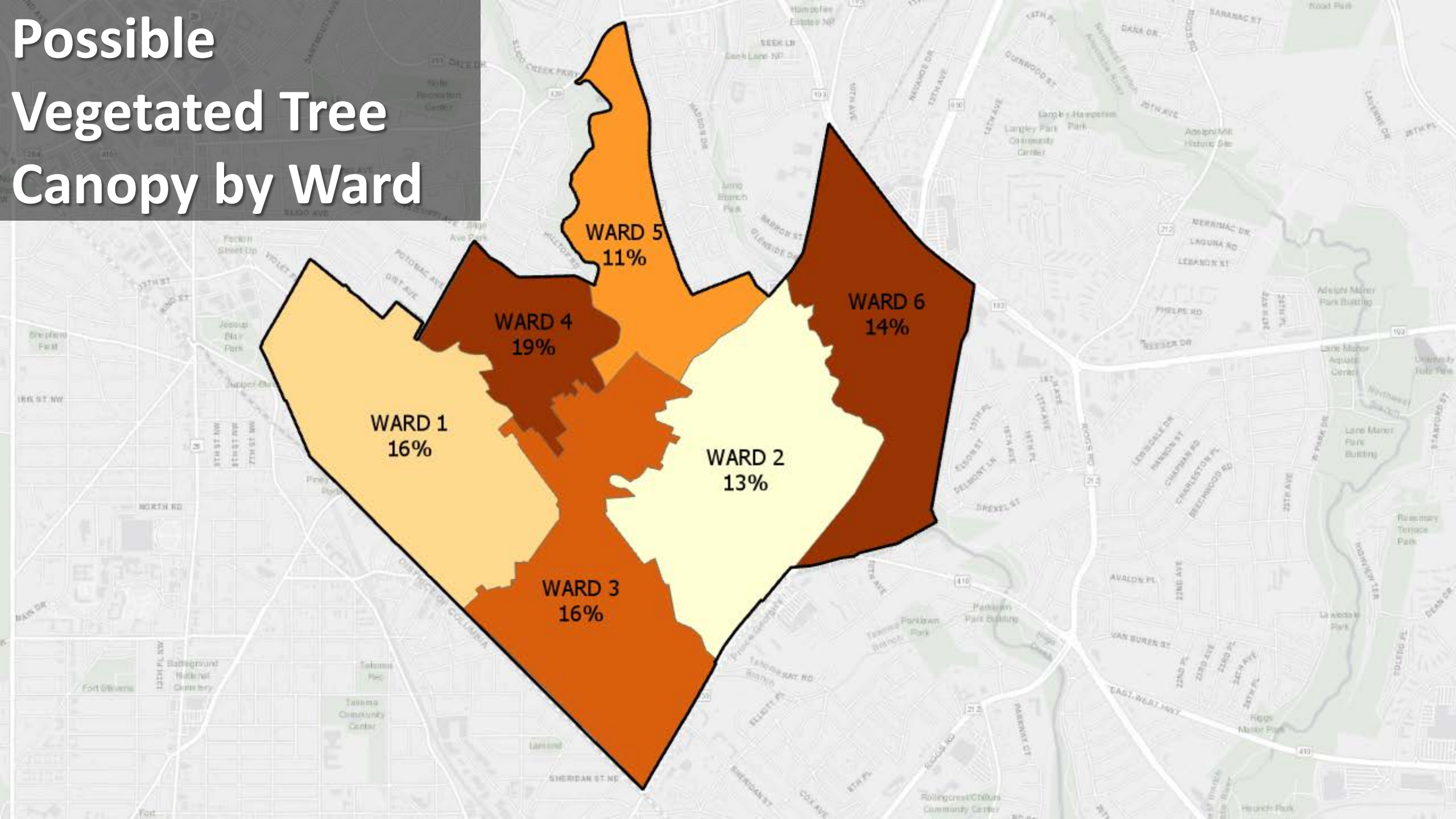




# Existing Tree Canopy by Ward

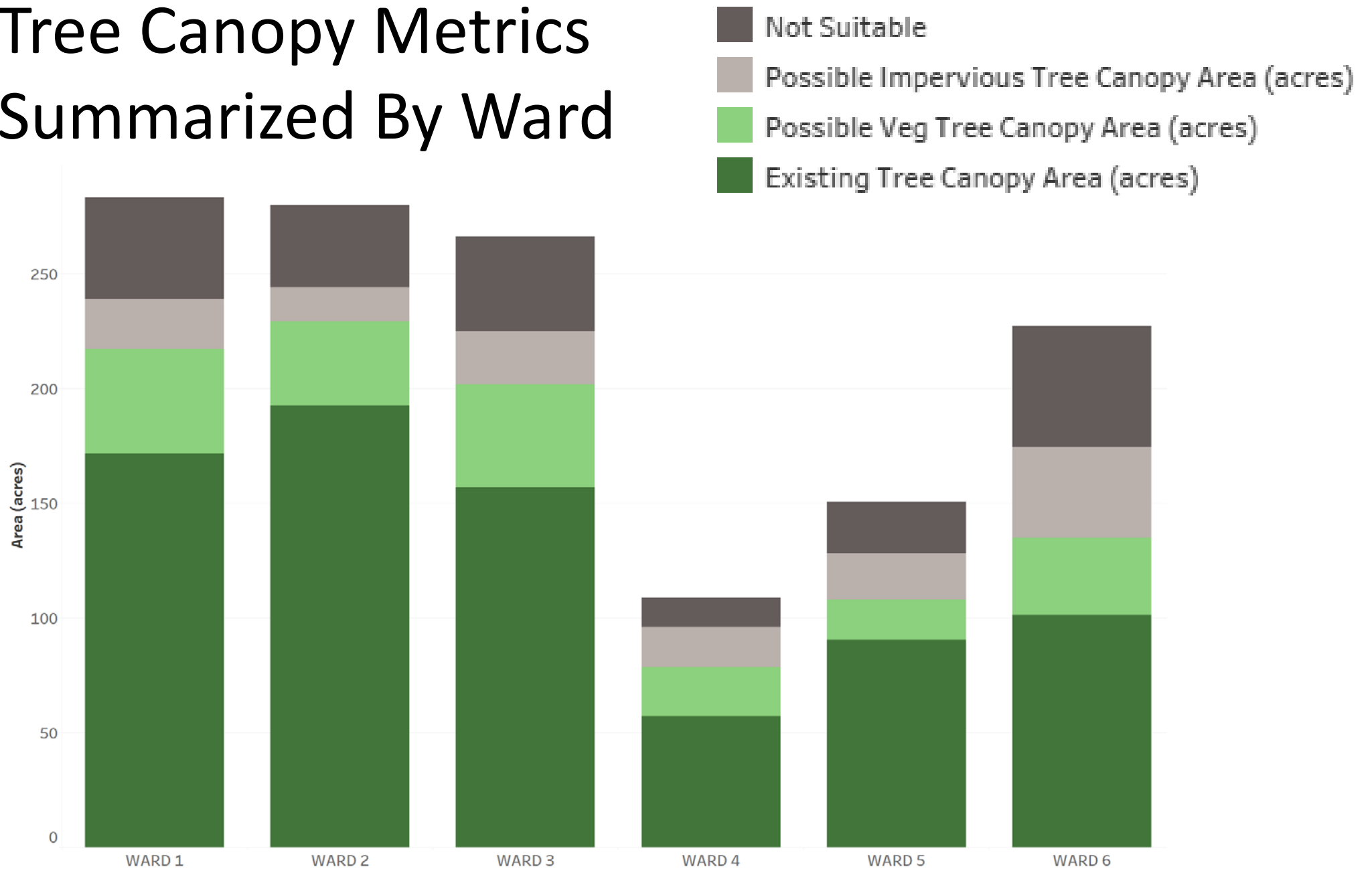


# Possible Vegetated Tree Canopy by Ward





# Tree Canopy Metrics Summarized By Ward





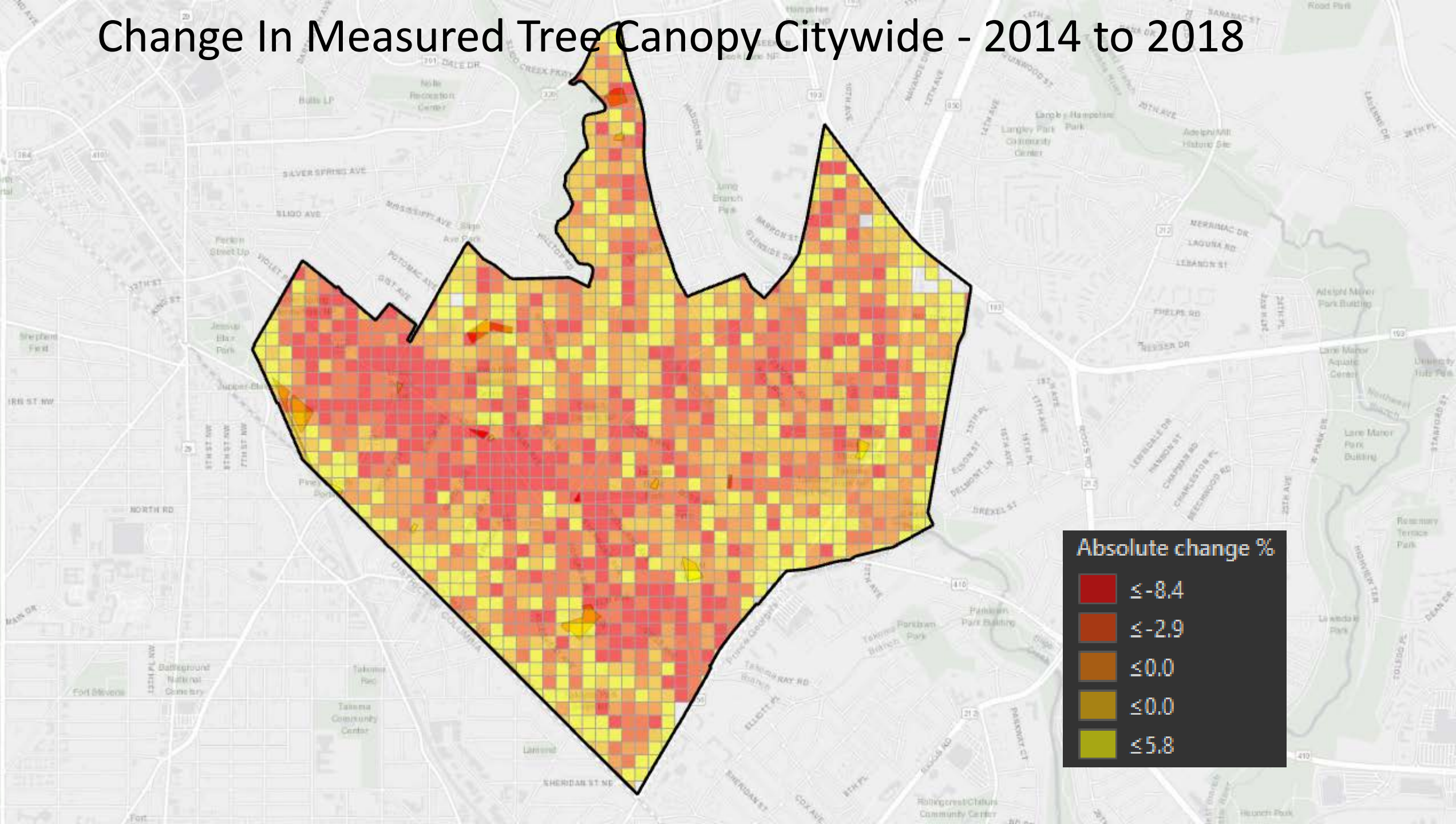


# LiDAR – Comparison of 2018 to 2014



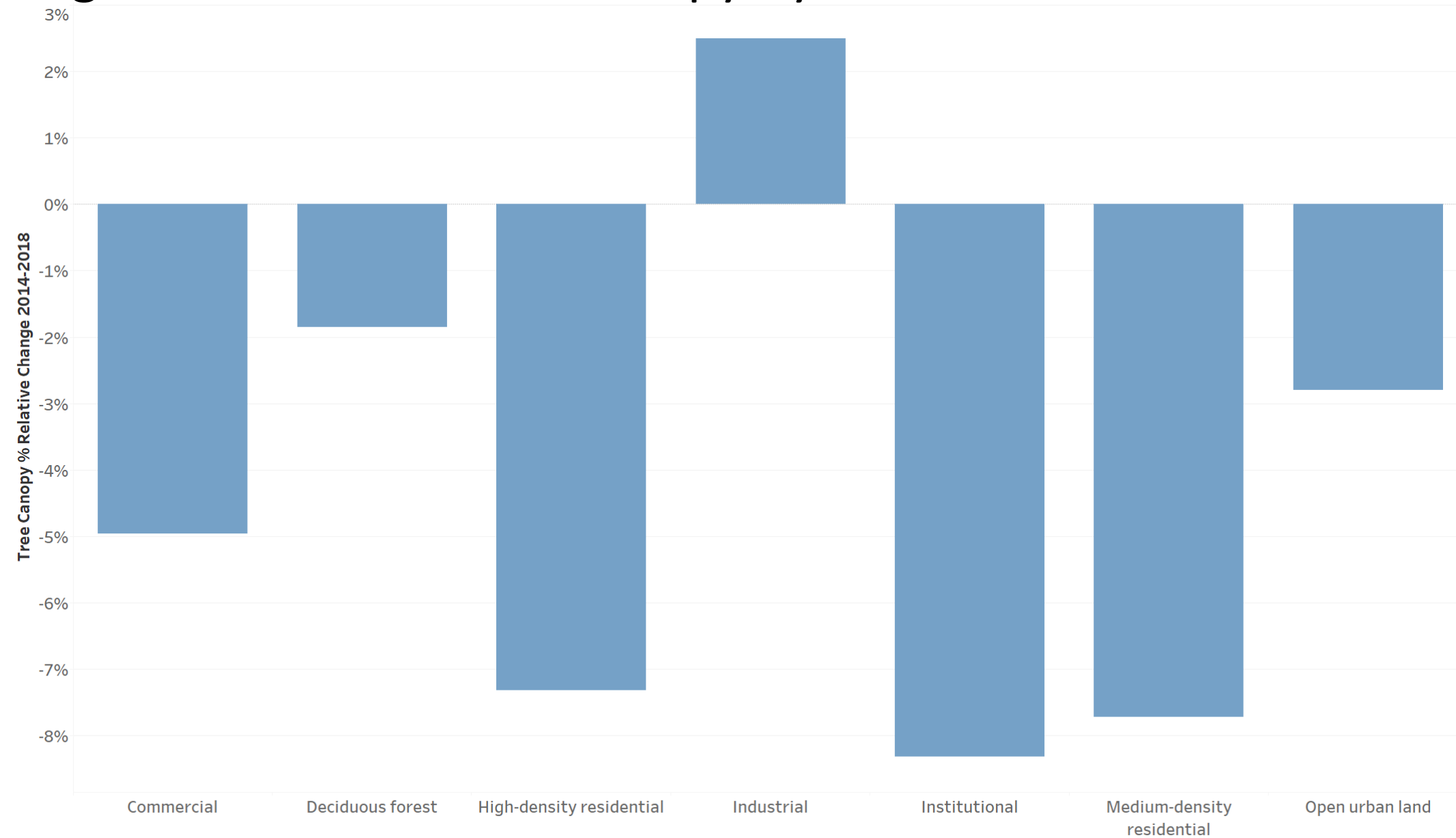


# Change In Measured Tree Canopy Citywide - 2014 to 2018





# Change In Measured Tree Canopy By Land Use from 2014 to 2018

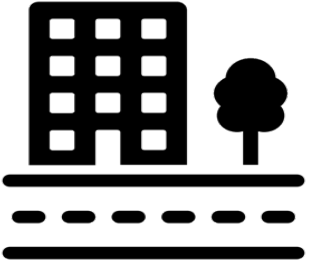


Change In Measured Tree  
Canopy By Land Ownership  
from 2014 to 2018



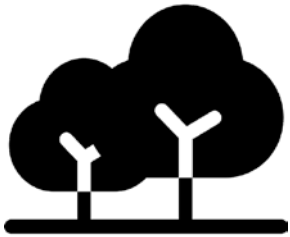


# General Conclusions



## **Takoma Park has a robust urban forest**

*The percent tree canopy is relatively high for an urban area and on par with similar communities (Greenbelt – 63%).*



## **Preserve the current tree canopy**

*It is less expensive and more efficient to retain the existing tree canopy.*



## **Residents are the key**

*Residents control most of the existing tree canopy and have the most room to plant new trees.*