



CHARLOTTESVILLE,  
VIRGINIA



7,006 TOTAL ACRES  
6,980 LAND ACRES  
46,553 RESIDENTS

## A FORECAST ANALYSIS OF POSSIBLE PLANTING SCENARIOS

The forest of Charlottesville offers a lot more than greener views and patches of shade. It creates meaningful environmental, economic, and social benefits for the community, valued at almost \$16 million/year. In 2020, a Tree canopy assessment was undertaken to better understand the composition of the City's canopy infrastructure. This assessment identified tree canopy, possible planting area (PPA), and areas unsuitable for planting. It analysed how they are currently distributed throughout the city. The results will allow the City to revise existing strategies and develop new ones to protect and expand the tree canopy.

Building upon the results of this assessment, the aim of this summary report is to analyze and communicate the effects of various planting strategies on Charlottesville's future canopy resource. Four scenarios were chosen (see results table below) to illustrate how Charlottesville's canopy cover could shift over a time period from now (2023) to 2050. The results presented for each scenario may be used as guidelines to inform the scale and methods of future planting efforts.

38%

TREE CANOPY

22%

POSSIBLE PLANTING AREA

36%

TOTAL IMPERVIOUS  
AREA

*\*Charlottesville's 2023 canopy cover is an assumption based on 2020 canopy data and input from ReLeaf Cville.*

### ANNUAL TREE PLANTING REQUIRED FOR EACH SCENARIO



500 BUSINESS AS  
USUAL  
2,572 MAINTAIN  
EXISTING  
UTC %  
3,697 ATTAINABLE  
GROWTH  
4,500 AGGRESSIVE  
GROWTH



RELEAF  
CVILLE



Planting **2,572**  
**trees per year** will  
maintain the citywide  
canopy cover, and any  
additional plantings  
will increase citywide  
canopy.

### Total Number of Trees Required for Possible Planting Scenarios

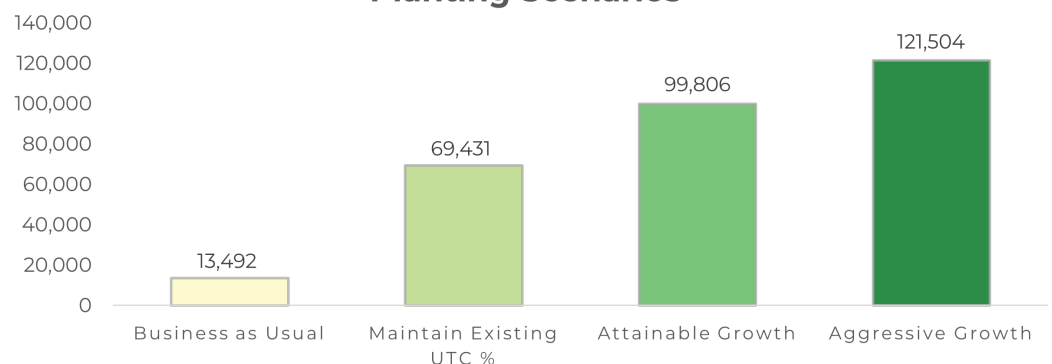


Figure 1. The total number of tree plantings required over the next 27 years for each of the scenarios.