

# Tree Cover Status & Change

FOR CHARLOTTESVILLE, VA

**42.5%**

**Total Percent** of City with Tree Cover

**\$1.6 Million**

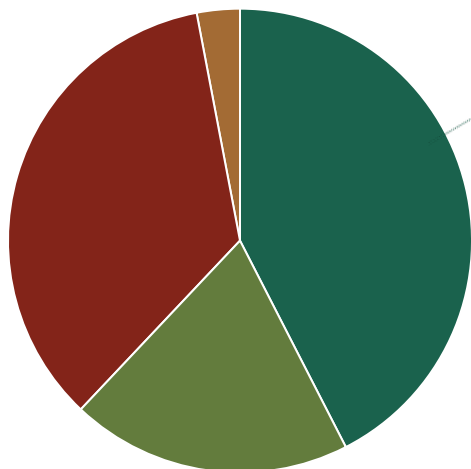
**Annual Benefits** provided by Tree Cover (in reduced air pollution, stormwater, & carbon dioxide)

**-75 Acres**

**Net Loss** of Tree Cover on Developed Lands, 2014 to 2018

## What is the land use/land cover breakdown in your city?

6,553 ACRES OF LAND AREA IN CHARLOTTESVILLE



**42.5%** **Tree Cover**<sup>1</sup>  
2,783 acres

**35%** **Impervious**  
(Buildings/Pavement)  
2,292 acres

**19.6%** **Turf Grass**  
1,285 acres

**3%** **Other**<sup>2</sup>  
193 acres

1. Tree cover includes all trees occurring on all land uses, such as individual trees found over turf, impervious, agricultural, wetlands, or other lands. It also includes areas of "forest," defined in this dataset as patches of tree cover 1 acre or greater, with a minimum patch width of 240 feet.
2. Other includes a mixture of non-treed land uses not captured in the main pie chart categories. See the *Data Guide* for detailed definitions of "other" and all the land use categories.

Land use/land cover statistics were generated based on 2018 imagery using the 2022 edition of the *Chesapeake Bay Land Use and Land Cover Database*.

## Where does tree cover occur in your city?



**19.2%**

is in forest  
(534 acres)



**12.9%**

is over impervious  
(359 acres)



**63.1%**

is over turf grass  
(1,755 acres)



**4.9%**

is other tree cover  
(135 acres)

## What are some benefits of tree cover in your city?



### Total Air Pollution Removal Value

**171,000 lbs** removed annually  
**\$600,000** saved annually

Total air pollution removal includes CO, NO<sub>2</sub>, O<sub>3</sub>, SO<sub>2</sub>, and Particulate Matter (PM2.5, PM10).



### Gallons of Reduced Stormwater Runoff Value

**45 million gallons** reduced annually  
**\$402,100** saved annually



### Carbon Sequestered Value

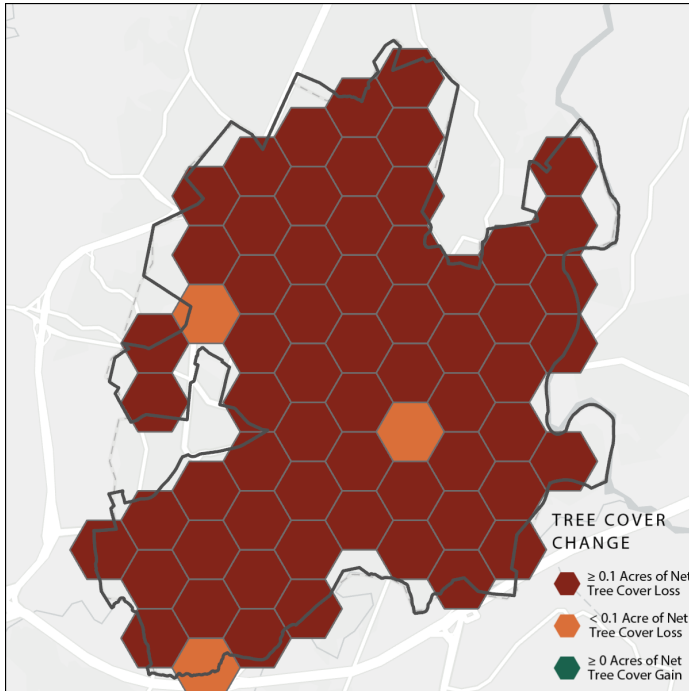
**4,000 tons** removed annually  
**\$0.6 million** saved annually

Calculated based on 2018 tree cover data using:  
[landscape.itreetools.org](https://landscape.itreetools.org)



**CHESAPEAKETREES.NET**  
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# How is tree cover changing on developed and developing lands?



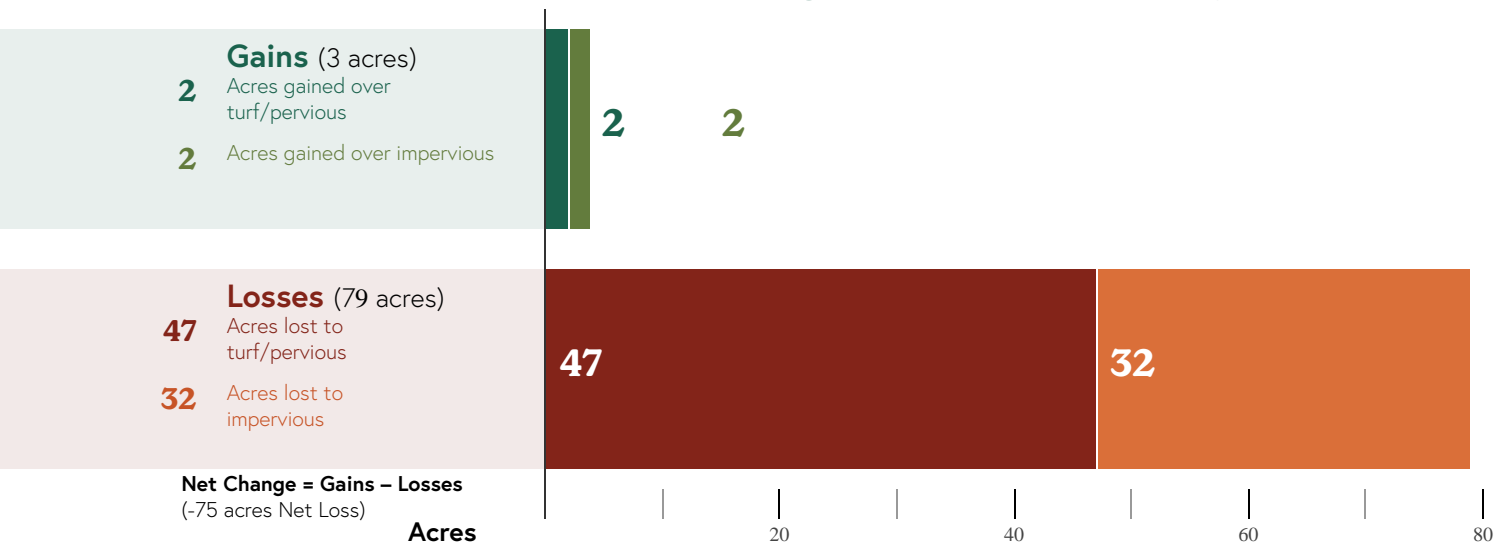
Understanding how your tree cover changes over time can inform the sustainable management of forests and community trees. The map to the left shows where your city has lost and gained tree cover from 2014 to 2018, focusing on land that is already or newly developed.

Tree cover can be lost quickly due to human activities (e.g., construction) or natural events (e.g., severe weather).

Tree cover can be gradually increased through tree planting and natural regrowth, but these gains may take 10-15 years to be detected in high resolution imagery.

Since mature, healthy trees provide significantly greater community benefits than newly planted trees, it is important to both preserve existing tree cover and seek opportunities to grow new trees and forests. Local land use planning, ordinances, and tree programs play a critical role!

## Tree Cover Change on developed/developing lands (2014–2018)



### Learn More:

#### Chesapeake Tree Canopy Network

Links to county fact sheets, user guides, map viewers, datasets, and more

#### Tree Equity Score

Explore maps of how tree benefits are distributed across communities

#### Capitalizing on the Benefits of Trees

A slideshow for local leaders featuring tree benefits, case studies and resources

#### State Urban and Community Forestry Assistance

(Lara Johnson, Virginia Website)



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