

Tree Cover Status & Change

FOR CARROLL COUNTY, MD

33.9%

Total Percent of County with Tree Cover

\$29.5 Million

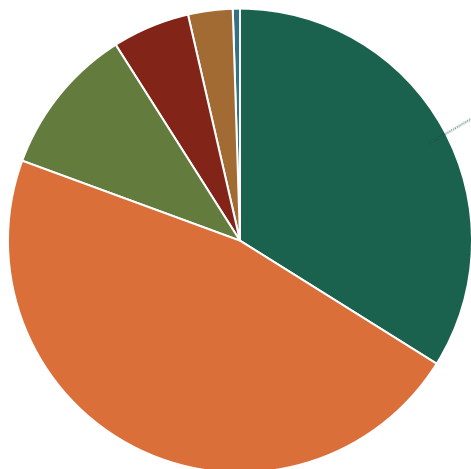
Annual Benefits provided by Tree Cover (in reduced air pollution, stormwater, & carbon dioxide)

149 Acres

Net Gain of Tree Cover on Developed Lands, 2013 to 2018

What is the land use/land cover breakdown in your county?

286,934 ACRES OF LAND AREA
IN CARROLL COUNTY



Where does tree cover occur in your county?



70.3%

is in forest
(68,282 acres)



1.5%

is over impervious
(1,449 acres)



17.3%

is over turf grass
(16,786 acres)



10.9%

is other tree cover
(10,635 acres)

What are some benefits of tree cover in your county?



Total Air Pollution Removal Value

7.2 Million lbs removed annually

\$4.3 Million saved annually

Total air pollution removal includes CO, NO₂, O₃, SO₂, and Particulate Matter (PM2.5, PM10).



Gallons of Reduced Stormwater Runoff Value

152.6 million gallons reduced annually

\$1.4 million saved annually



Carbon Sequestered Value

127,000 tons removed annually

\$23.9 million saved annually

Calculated based on 2018 tree cover data using:
landscape.itreetools.org

33.9% Tree Cover ¹
97,152 acres

5.4% Impervious
(Buildings/Pavement)
15,604 acres

46.7% Agriculture
134,065 acres

3.1% Other ²
9,010 acres

10.4% Turf Grass
(Lawns)
29,699 acres

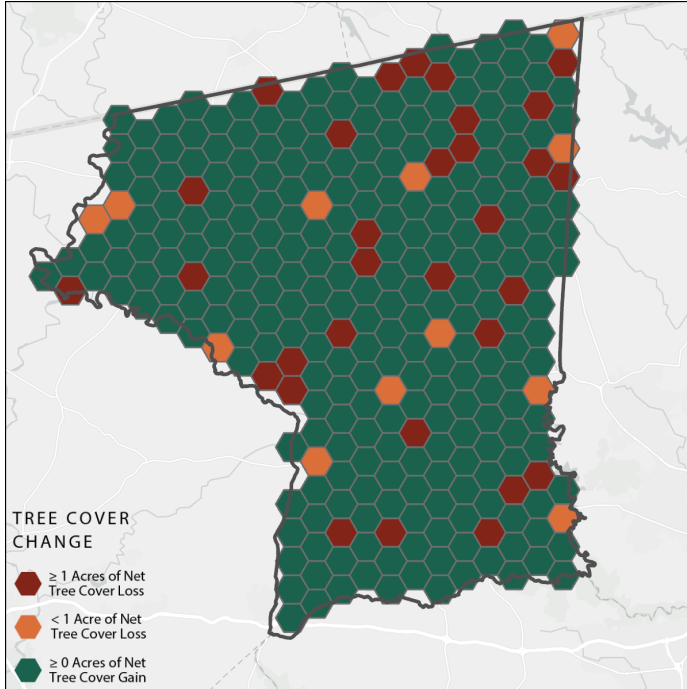
0.5% Non-Forested
Wetlands
1,404 acres

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](#).

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 county has lost and gained tree cover from 2013 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 (2013–2018)

426 **Gains** (491 acres)
Acres gained over turf/pervious

64 Acres gained over impervious

163 **Losses** (341 acres)
Acres lost to turf/pervious

178 Acres lost to impervious

Net Change = Gains – Losses
(149 acres Net Gain)

Acres

163

178

426

64

100

200

300

400

500

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

(Maryland Website)



Fact sheets produced through a grant from the **USDA Forest Service**. USDA is an equal opportunity provider, employer and lender.