

## CREATE VIBRANT COMMUNITIES

- Incorporating trees into common spaces in public housing increases social activities.<sup>1</sup>
- Having larger trees in yards and on the street can improve home values by 3%-15%.<sup>2</sup>
- Shoppers will spend 9%-12% more in areas with better tree canopy.<sup>3</sup>

## REDUCE AIR POLLUTION

- Neighborhoods with lots of trees have lower childhood asthma rates.

## PROVIDE SHADE & COOLING

- Tree canopy can reduce temperatures by up to 20 degrees, lowering health risks and utility bills.

# TREES in COMMUNITIES



## IMPROVE HUMAN HEALTH

- Trees help reduce stress, lower blood pressure, and boost the immune system.
- Shade from trees reduces radiation that causes skin cancer.

## CONTROL STORMWATER

- Tree roots can trap sediment and filter contaminants from stormwater.
- One tree can reduce stormwater runoff by 13,000 gallons per year.<sup>4</sup>

## IMPROVE PUBLIC SAFETY

- Areas with increased green space have lower crime rates.<sup>3</sup>

Source:  
[Chesapeake Forest Restoration Strategy](#)

# Tree canopy outcome: what is our goal?



Through the *Chesapeake Bay Watershed Agreement*, the Chesapeake Bay Program has committed to...

Continually increase urban tree canopy capacity to provide air quality, water quality and habitat benefits throughout the watershed. **Expand urban tree canopy by 2,400 acres by 2025.**

**Goal: *Vital Habitats***

**Outcome: *Tree Canopy***

# It's not just about planting...

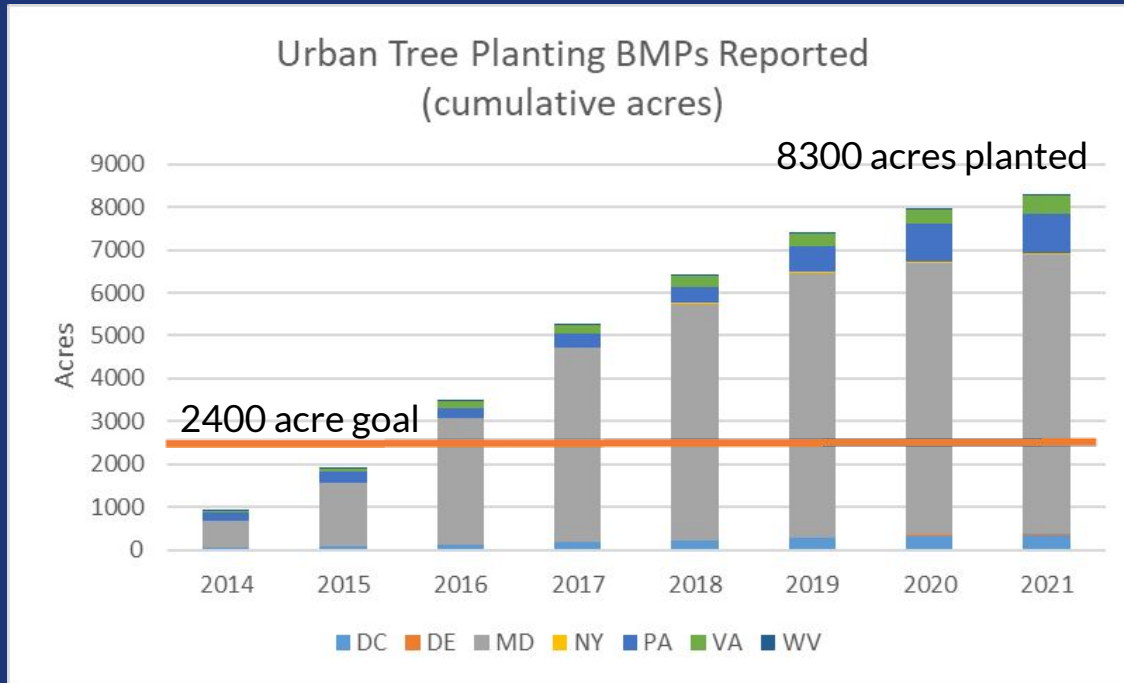


We track Tree Canopy progress in two ways:

- 1) States report three urban tree planting BMPs annually for TMDL
- 2) Long term progress analyzed through high resolution Land Cover/Land Use updates

# How are we doing?

## New Plantings



## Land Cover Change Detected from Imagery

Tree Canopy Net Change in Census Places (2013/14-2017/18)	
Jurisdiction (CB Only)	Net Change (Acres)
Delaware	-28
DC	21
Maryland	-13,804
New York	78
Pennsylvania	-2,444
Virginia	-9,548
West Virginia	-107
<b>Total</b>	<b>-25,832</b>

# County data now available...

## Tree Cover Status & Change FOR CUMBERLAND COUNTY, PA

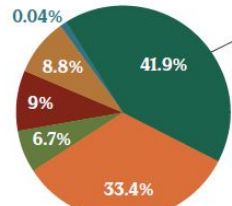
**41.6%**  
Total Percent of  
County with Tree Cover

**\$14+ Million**  
Annual Benefits provided by Tree Cover  
(in reduced air pollution, stormwater, & carbon dioxide)

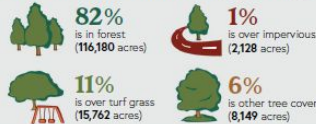
**433 Acres**  
Net Loss of Tree Cover on  
Developed Lands, 2013 to 2017

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

**341,668 ACRES OF LAND AREA**  
IN CUMBERLAND COUNTY



### Where does tree cover occur in your county?

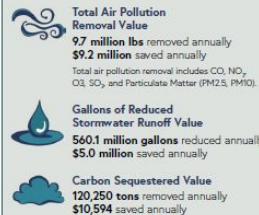


<b>41.9%</b> Tree Cover <sup>1</sup> 142,219 acres	<b>9%</b> Impervious (Buildings/Pavement) 30,882 acres
<b>33.4%</b> Agriculture 113,222 acres	<b>8.8%</b> Other <sup>2</sup> 29,890 acres
<b>6.7%</b> Turf Grass (Lawns) 22,569 acres	<b>0.04%</b> Non-Forested Wetlands 162 acres

- 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.
- Other includes a mixture of non-forest 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.

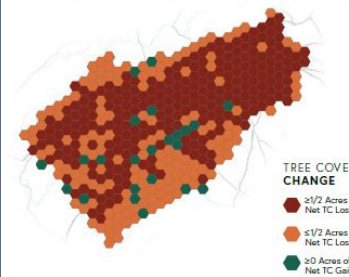
Land use/land cover statistics were generated using the 2022 edition of the Chesapeake Bay Land Use and Land Cover Database.

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



Calculated based on 2017 tree cover data using: [landscapeitertools.com](https://landscapeitertools.com)

### How is tree cover changing on developed and developing lands?



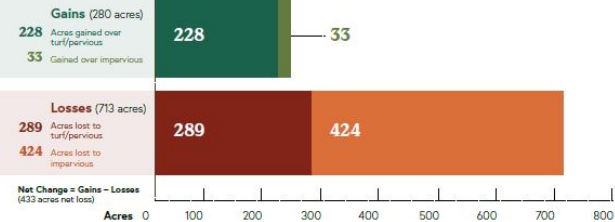
Understanding how your tree cover changes over time can inform the sustainable management of forests and community trees. The map to the left shows where your county has lost and gained tree cover from 2013 to 2017, focusing on land that is already or newly developed.

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 maintaining this new growth requires long-term investments.

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 (2013-2017)



### 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

(State contact and website)



CHESAPEAKE TREES.NET  
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# Progress is not equitably distributed



# But there is also good news



INFLATION REDUCTION ACT

**\$1.5 billion** for the U.S. Forest Service's Urban & Community Forestry Program to help communities plant & care for urban trees.

↓

**BENEFITS INCLUDE:**

- Contribute to carbon emissions removal
- Create new urban forestry jobs
- Reduce heat-related illnesses & utility costs & consumption
- Increase tree canopy in BIPOC communities

*Image, The Nature Conservancy*