


CASEY  
TREES  
CARBON  
STORAGE  
REPORT

*How much carbon is stored in D.C. trees?*





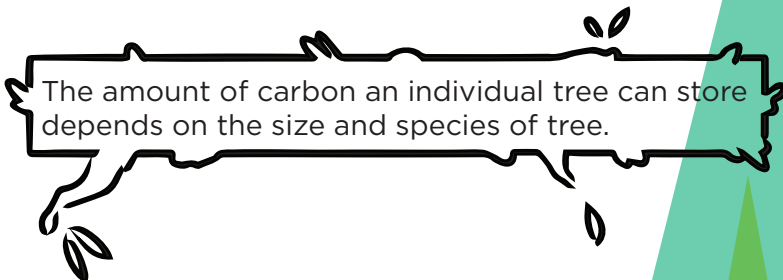
**CLIMATE CHANGE** is the largest threat to the stability of our planet and combating it will take many different strategies. Here at Casey Trees we know of one solution that's helping right now and it's in your backyard.

Those trees standing tall on our streets, in our parks and in your yard provide enormous benefits to the environment.

**TREES ARE A SOLUTION**

# HOW DO TREES HELP?

Trees store carbon through a process called photosynthesis. **As trees grow they absorb carbon dioxide from the atmosphere and store that carbon in their trunk branches and roots.**

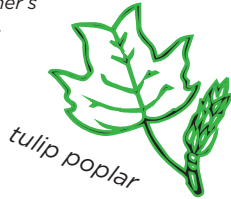


The amount of carbon an individual tree can store depends on the size and species of tree.

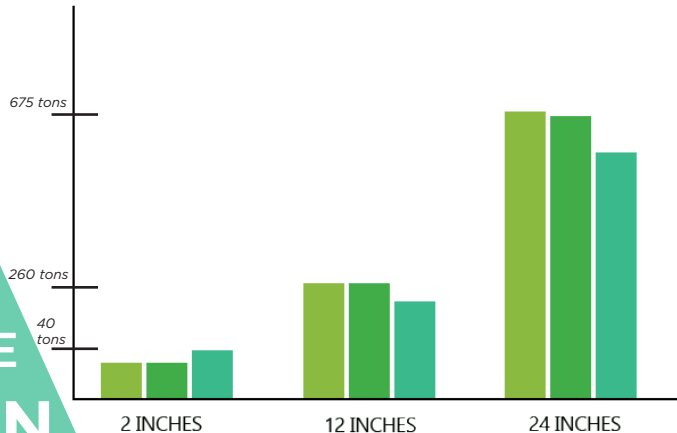
# CARBON STORED GRAPH

Below is a table showing the amount of carbon in different size and species of trees. We chose crape myrtle, tulip poplar and elm because they have the highest "importance values" in DC.

*These trees measured in last summer's iTree Eco Study conducted in 2015.*



## CARBON STORED BY DIAMETER



**BIGGER  
TREES  
STORE  
MORE  
CARBON**

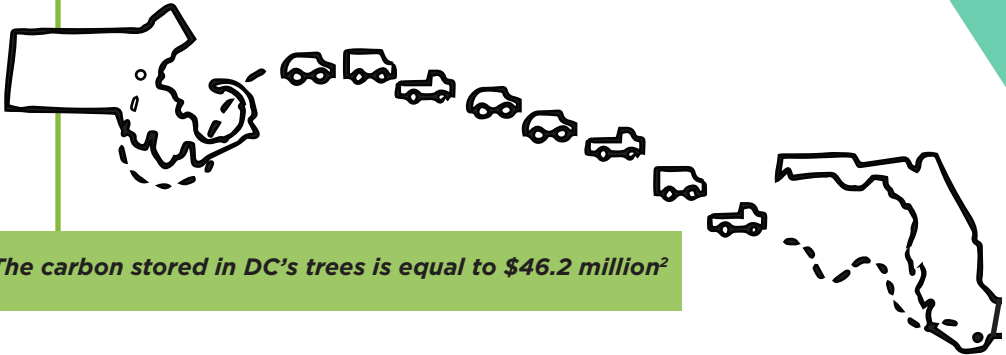
# HOW MUCH CARBON IS STORED IN DC'S URBAN FOREST?

**649,000 tons** of carbon

**2.38 million tons** of CO<sup>2</sup>

Equivalent to removing **506,772 vehicles** from the road...

If you were to line those vehicles up end to end they would stretch from Boston to Miami.<sup>1</sup>



*The carbon stored in DC's trees is equal to \$46.2 million<sup>2</sup>*

# WHAT CAN YOU DO?



*Because bigger trees store significantly more carbon,  
we need your help to protect the district's larger trees!*

# ADDITIONAL INFORMATION

## FULL REPORT:

[http://caseytrees.org/wp-content/uploads/2016/07/iTree-2015-Report\\_English.pdf](http://caseytrees.org/wp-content/uploads/2016/07/iTree-2015-Report_English.pdf)

**DATA ANALYSIS MODEL:** <http://www.itreetools.org/eco>

**METHODOLOGY:** [http://www.itreetools.org/eco/sample\\_inv.php](http://www.itreetools.org/eco/sample_inv.php)

## TREE CANOPY PROTECTION ACT:

<http://caseytrees.org/get-involved/action/comments/legislation/tree-canopy-protection-amendment-act-of-2015/>

## I-TREE ECO LEAFLET ARTICLE:

<http://caseytrees.org/leaflet/preliminary-i-tree-ecosystems-analysis-results-are-in/>

## FOOTNOTES:

1. *Length of a car = .002796 miles x 506772 vehicles = 1417 miles*
2. *Based on the EPAs \$71/ton of carbon*



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WASHINGTON DC  
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