

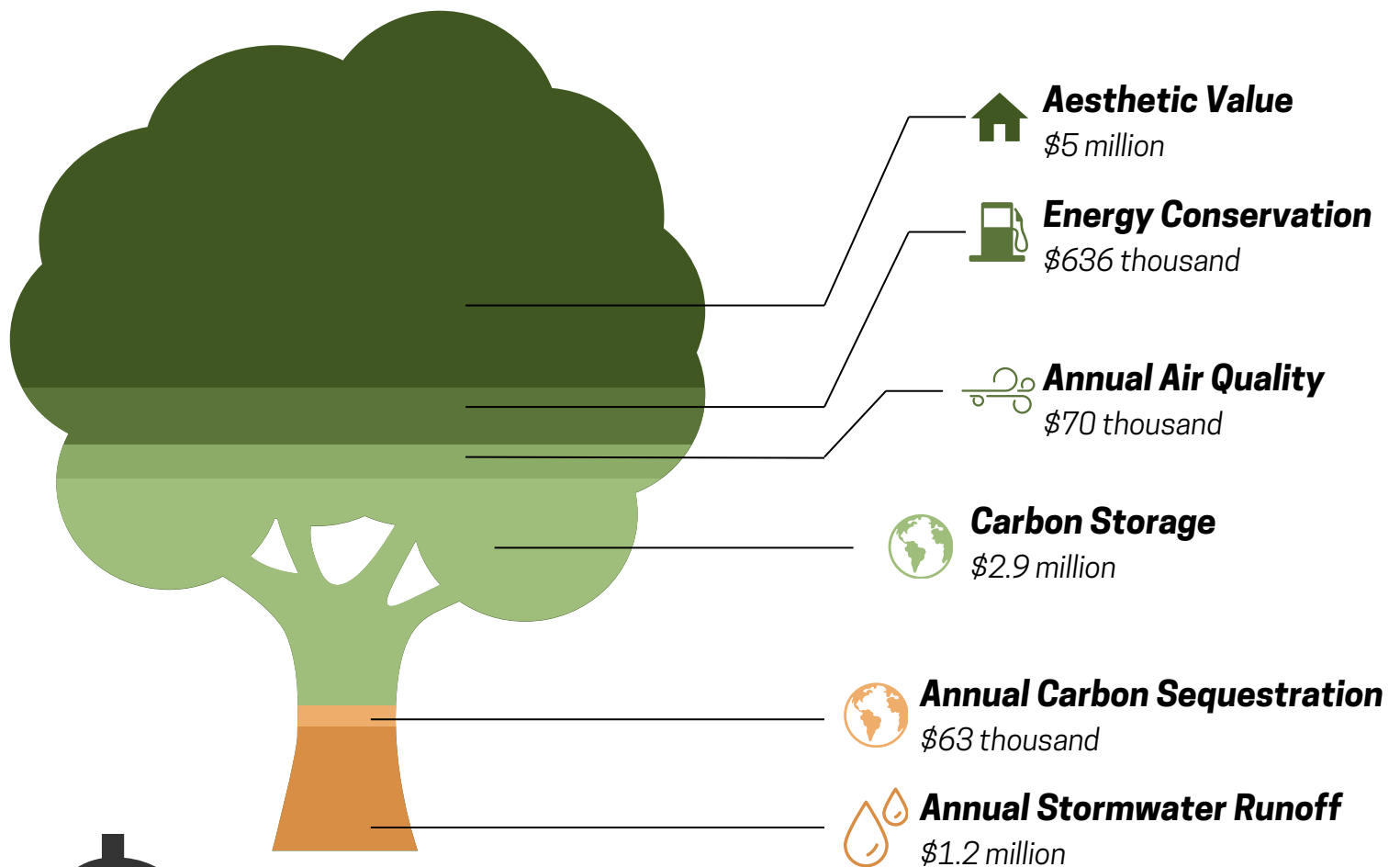
**Street trees** provide millions of dollars of environmental, economic, and social benefits to our community. For every \$1 Metro Nashville spends on street trees it realizes \$3 in benefits. Tree benefits increase as trees grow, highlighting the importance of providing ongoing maintenance of larger trees.

## Trees...

- Reduce stormwater runoff
- Sequester and store carbon
- Improve air quality
- Conserve energy
- Raise property value

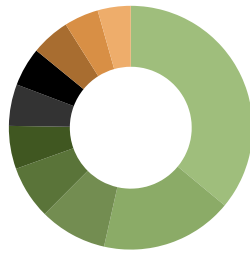
# Street Tree Benefits

**Metro Nashville** public street trees provide...



**9.85 million** in total benefits

# Top 10 Tree Species by % of population

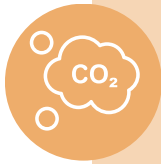


- Northern hackberry (18.9%)
- Crapemyrtle (9.2%)
- Eastern redbud (4.7%)
- Cherry (3.7%)
- Sugar maple (3.0%)
- Callery pear (2.9%)
- American elm (2.7%)
- Flowering dogwood (2.4%)
- Thuja (red cedar) (2.3%)
- Eastern red cedar (2.7%)



## Trees reduce stormwater runoff and improve water quality

Metro Nashville's street trees intercept rainfall and pull stored water from the soil. This reduces runoff by **138,500,000 gallons** of water annually, for a savings of **\$1.2 million**



## Trees absorb carbon each year

Street trees in Metro Nashville sequester **386 tons** of carbon annually at a value of **\$63 thousand**



## Trees keep carbon stored in their wood

Street trees in Metro Nashville store **16.8 thousand tons** of carbon in their wood at a value of **\$2.9 million**



## Trees improve air quality

Street trees in Metro Nashville remove **13.7 tons** of air pollutants annually, including particulate matter, for a savings of **\$70 thousand**



## Trees save energy

Metro Nashville street trees cool impervious surfaces and slow cold, winter wind, saving residents approximately **\$636 thousand** annually in energy costs



## Trees add intangible values to our city

Metro Nashville street trees provide aesthetic value, privacy, wildlife habitat, and a sense of place and well-being at a value of **\$5 million**

Analysis was conducted using iTree Streets and iTree Eco. These are tree management and analysis tools for urban forest managers that use tree inventory data to quantify the dollar value of annual environmental and aesthetic benefits. The iTree Suite is a free state-of-the-art, peer-reviewed software suite from the USDA Forest Service. [www.itreetools.org](http://www.itreetools.org).



**RootNashville is a campaign to plant 500,000 trees in Nashville and Davidson County by 2050. To learn more about how you can participate in the campaign, please visit [rootnashville.org](http://rootnashville.org).**



[trees.nashville.gov](http://trees.nashville.gov)



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