



MUNICIPALITY CHARLOTTE

COUNTY CHITTENDEN

<mark>state</mark> VERMONT

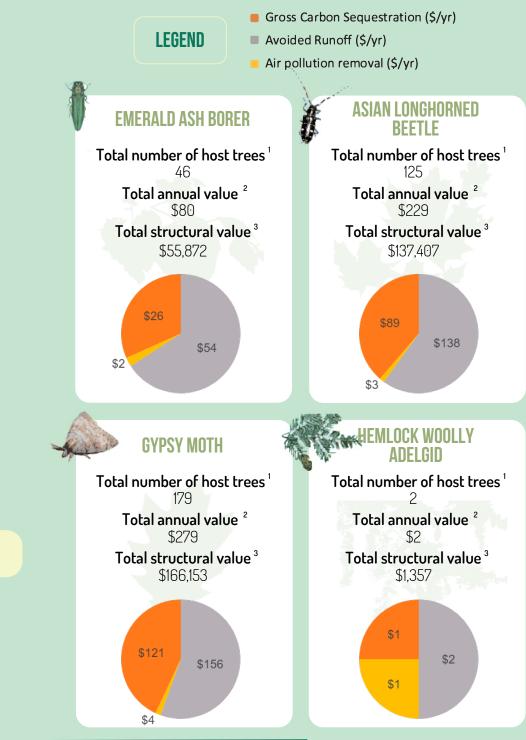
population 3,754

INVENTORY YEAR

2016

VALUE OF PUBLIC TREES AT RISK

Invasive pests and pathogens can kill public trees, resulting in losses of critical ecosystem services, like carbon sequestration, runoff mitigation, and air pollution removal. For each invasive threat, the annual benefits provided by all potential host trees are summed into a total potential loss. In addition to the loss of benefits, the cost of replacing dead trees is estimated as the total structural cost. Together, these values can be used to weigh the potential benefit losses and costs that a municipality may incur if the invasive pest or pathogen is not contained.



¹Total number of host trees includes any species or genus designated as a favored or occasional host of the pest or pathogen.

²Total annual value is the sum of the annual valuations of gross carbon sequestration, avoided runoff, and pollution removal.

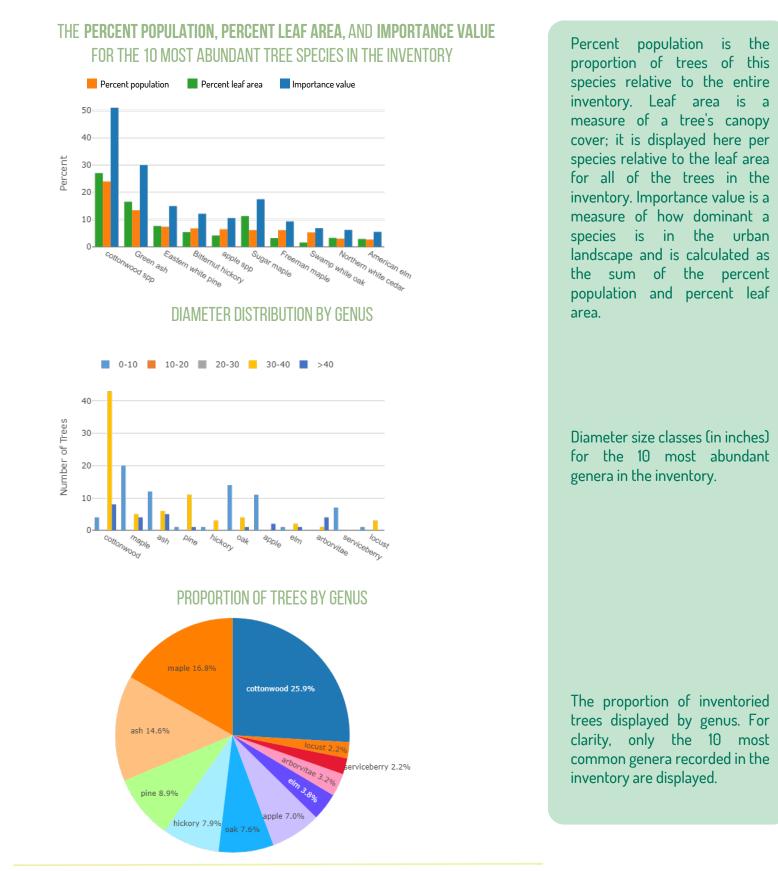
³ Total structural value is the estimated local cost of having to replace similar trees and can be interpreted as the value at risk of being lost.

Town of Charlotte, Vermont (2019). Charlotte, Vermont Street Tree Inventory. Available at:

https://www.uvm.edu/femc/data/archive/project/charlotte_vermont_street_tree_inventory

Valuations were generated with i-Tree Eco (Version 6.1.30) Estimate generated on: 2/5/2020

OVERVIEW OF TREE INVENTORY



For more information visit www.uvm.edu/femc/cooperative/projects/urban_pest_risk



🕲 (802) 656-2975 📈 femc@uvm.edu PDF created: 05/02/2023

