WESTERVILLE, OHIO 2011-2021 Tree Canopy Summary

Community & County Overview

The City of Westerville has an estimated population of 39,163 residents and encompasses an area of 12.75 square miles. In Westerville, 29.8% of land is covered by tree canopy compared to 23.9% of land in Franklin County¹.

Trees provide essential ecosystem services. Franklin County's trees save \$10 million by absorbing stormwater, \$8 million by storing carbon, and \$15 million of avoided healthcare costs from air pollution².

Westerville 365,700 Estimated total trees

+196 Acres

Area change in tree canopy from new plantings & incremental growth (558.2 acres of gain -362.1 acres of loss).

> +2.4% Change in tree canopy area

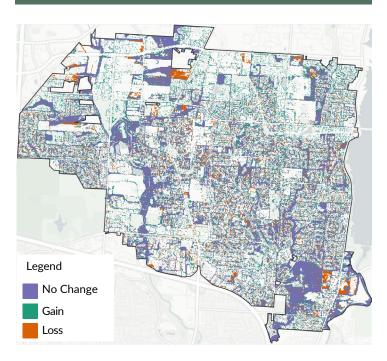
Franklin County 12.8 Million Estimated total trees

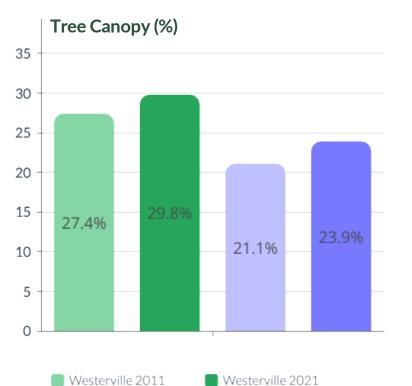
+9.712 Acres

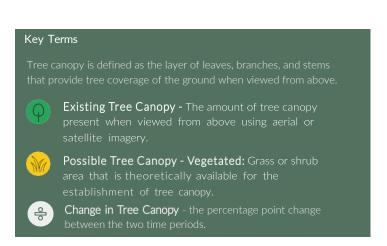
Area change in tree canopy from new plantings & incremental growth (19,202 acres of gain -9.490 acres of loss).

> +2.8% Change in tree canopy area

2011-2021 Tree Canopy Change Map







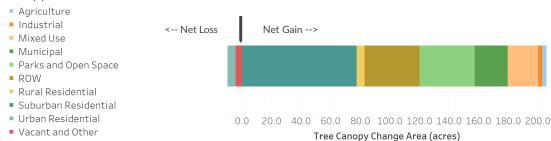
Franklin County 2011 Franklin County 2021

1 Population and area milage from 2021 Mid-Ohio Regional Planning Commission and Franklin County Engineer's Office data. 2 Ecosystem services calculations are based on the iTree Eco methodology and values for Franklin County. Nowak, D.J., 2021. Understanding i-Tree: 2021 summary of programs and methods. US Department of Agriculture, Forest Service, Northern Research Station.

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Canopy Change by Land Use

The City of Westerville gained the most canopy on Suburban Residential land use and had the most net loss in canopy on Urban Residential land use.



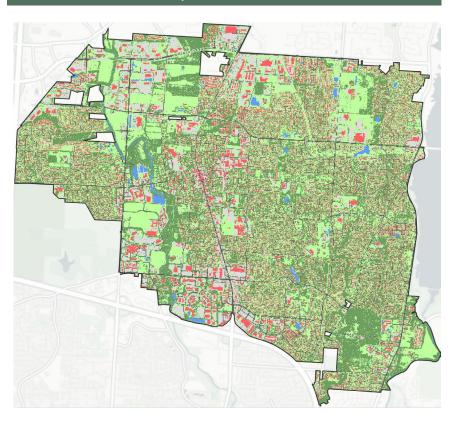
Possible Tree Canopy

In Westerville, 36% of land could be planted with additional trees, compared to 48% in Franklin County. Tree canopy is one of seven classifications from the high-resolution land cover map (right) that forms the foundation of this project. In this assessment, any areas with no trees, buildings, roads, or bodies of water are considered Possible Tree Canopy and represent locations in which trees could theoretically be established without having to remove paved surfaces.

Environmental Equity

- Tree Canopy: The extent of canopy cover in Westerville is 29.8% of its total land area while it is 23.9% for Franklin County.
- Temperature: The average high in °F for Westerville is 94 (max. 98), and 93 (max. 107) for Franklin County in 2021. Combining this information with tree canopy values allows us to understand the role trees could play in reducing heat islands.
- Asthma Rate: Average asthma rates per 1,000
 residents in Westerville are 9.67 while this value
 is 9.93 for Franklin County. Combining this
 information with tree canopy values allows us to
 understand the role trees could play in removing
 pollutants from the air.
- Income: Westerville has a median household income of \$70,164, while Franklin County's is \$59,097. Combining this information with tree canopy values allows us to understand the role trees could play in promoting equity for socioeconomically vulnerable groups.

2021 Land Cover Map





Recommendations



Preserving existing tree canopy is the most effective means for securing future tree canopy, as loss is an event but gain is a process.



Plant new trees in areas where tree canopy is low or in locations where there has been tree canopy removed to help grow canopy.



Refer to the full Tree Canopy Assessment and corresponding geographic data available by Franklin County and its jurisdictions to help manage trees.