District 8 2011-2021 Tree Canopy Summary

Council District Overview

Columbus Council District 8 has an estimated population of 100,581 residents and encompasses an area of 42.9 square miles. In this district, 22.3% of land is covered by tree canopy, compared to 22.0% of land in the City of Columbus.

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 pollution¹.

Council District 8

922,900 Estimated total trees

+613 Acres

Area change in tree canopy from new plantings & incremental growth
(1,352.3 acres of gain - 739.0 acres of loss).
+2.3%
Change in tree canopy area

District 8 2011

Columbus

4.8 Million Estimated total trees

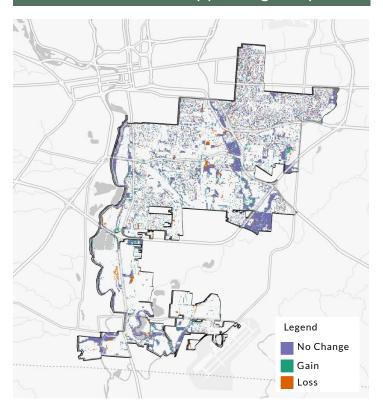
+3,353 Acres

Area change in tree canopy from new plantings & incremental growth
(7,871 acres of gain - 4,518 acres of loss).
+2.4%
Change in tree canopy area

City of Columbus 2011 City of Columbus 2021

District 8 2021

2011-2021 Tree Canopy Change Map



Key Terms

Tree canopy is defined as the layer of leaves, branches, and stems that provide tree coverage of the ground when viewed from above.

Existing Tree Canopy - The amount of tree canopy present when viewed from above using aerial or satellite imagery.

Possible Tree Canopy - Vegetated: Grass or shrub area that is theoretically available for the establishment of tree canopy.

Change in Tree Canopy - the percentage point change between the two time periods.

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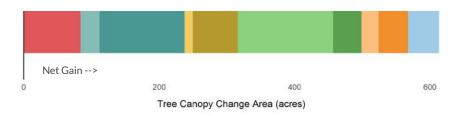
<-- Net Loss

Canopy Change by Land Use

Council District 8 gained the most canopy on Parks and Open Space land use and had a net gain in canopy across all types of land use.

Land Use

- Industrial
- Mixed Use
- Municipal
- Parks and Open Space
- ROW
- Rural Residential
- Suburban Residential
- Urban Residential
- Vacant and Other



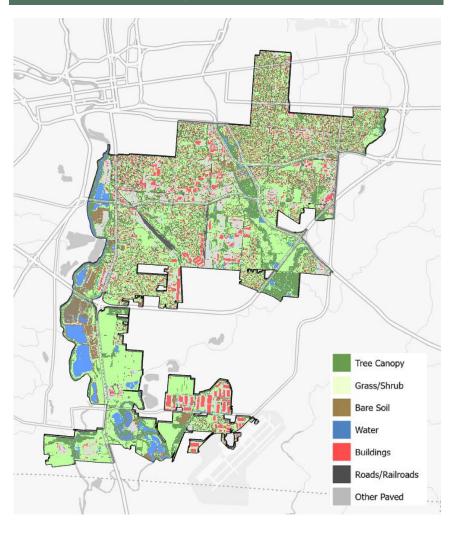
Possible Tree Canopy

In Council District 8, 40% of land could be planted with additional trees, compared to 37% in the City of Columbus. Tree canopy is one of seven classifications from the 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 Council District 8 is 22.3% of its total land area while it is 22.0% for the City of Columbus.
- Temperature: The average high in °F for both Council District 8 and for the City of Columbus is 96 (max. 101 and 107, respectively). 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 Council District 8 are 11.51 while this value is 10.48 for the City of Columbus. Combining this information with tree canopy values allows us to understand the role trees could play in removing pollutants from the air.
- Income: Council District 8 has a median household income of \$40,670, while the City of Columbus has one of \$45,675. Combining this information with tree canopy values allows us to understand the role trees could play in promoting equity for socio-economically 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 the City of Columbus and its communities to help manage trees.