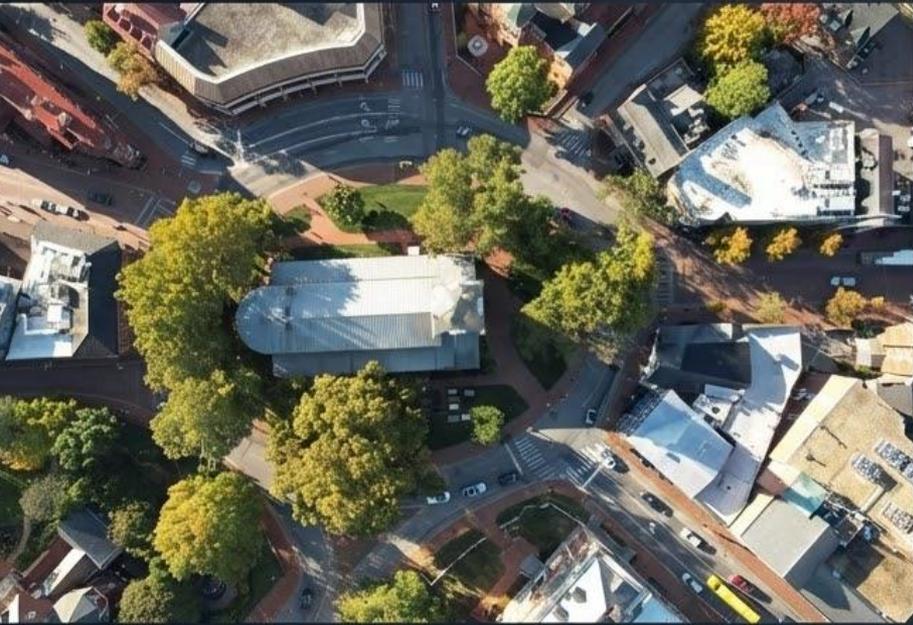


City of Annapolis Urban Forestry



WHAT IS URBAN TREE CANOPY?

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



ANNUAL ECOSYSTEM BENEFITS OF ANNAPOLIS' URBAN FOREST



TOTAL ECOSYSTEM BENEFITS VALUE
\$859,506



STORMWATER
\$214,498 23 MILLION GALLONS OF
AVOIDED RUNOFF



CARBON SEQUESTRATION
\$248,694 2,915,884 LBS SEQUESTERED



AIR QUALITY
\$396,314 161,185 LBS OF
POLLUTION REMOVED

Benefits of urban trees



1 Cool the air



2 Improve physical
and mental health



3 Filter urban
pollutants



4 Increase urban
biodiversity



5 Increase
property value

Figure 4: Benefits of urban trees. Credit Food and Agriculture Organisation of the United Nations / City of Sydney

PROGRAM HISTORY

- The 2009 Comprehensive Plan set a tree canopy goal based on a 2006 tree canopy study that recommended 50% canopy cover by 2036.
- The 2006 analysis showed the City to have approximately 41% tree canopy coverage.
- Program was not adequately funded.

"In a study of all (245) small watersheds in Montgomery County, MD, Goetz et al. (2003) found overall of tree cover of 44.6% to be associated with stream health ratings of 'good' "

Excerpt from 2006 Urban Tree Canopy Plan



Robert L. Ehrlich, Jr., Governor
Michael S. Steele, Lt. Governor
C. Ronald Franks, Secretary

A report on Annapolis' present and potential Urban Tree Canopy

Prepared for:

The Honorable Ellen O. Moyer, Mayor
City of Annapolis

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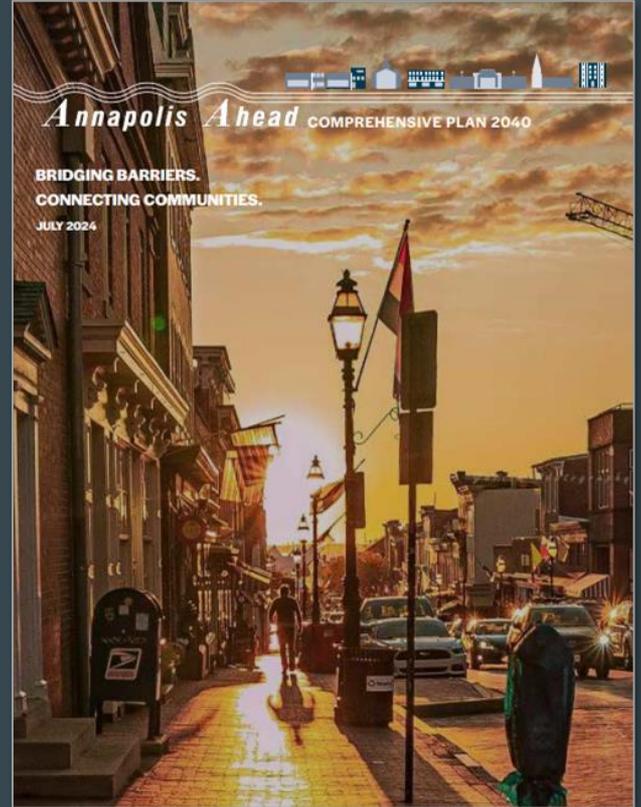


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410.260.8DNR or toll free in Maryland 877.620.8DNR • www.dnr.maryland.gov • TTY users call via Maryland Relay

PROGRAM HISTORY

- The 2040 Comprehensive Plan set a tree canopy goal of 50% canopy cover by 2050.
- A 2023 canopy analysis showed the City tree canopy coverage at 43%.
- Dedicated funding from Stormwater Restoration Fee

Urban forestry is essential to comprehensive plan priorities including sustainable development, a lower carbon footprint and prioritized environmental assets



WHERE WE ARE NOW

4,548 Total Area in Acres

4,529 Land Area without Water

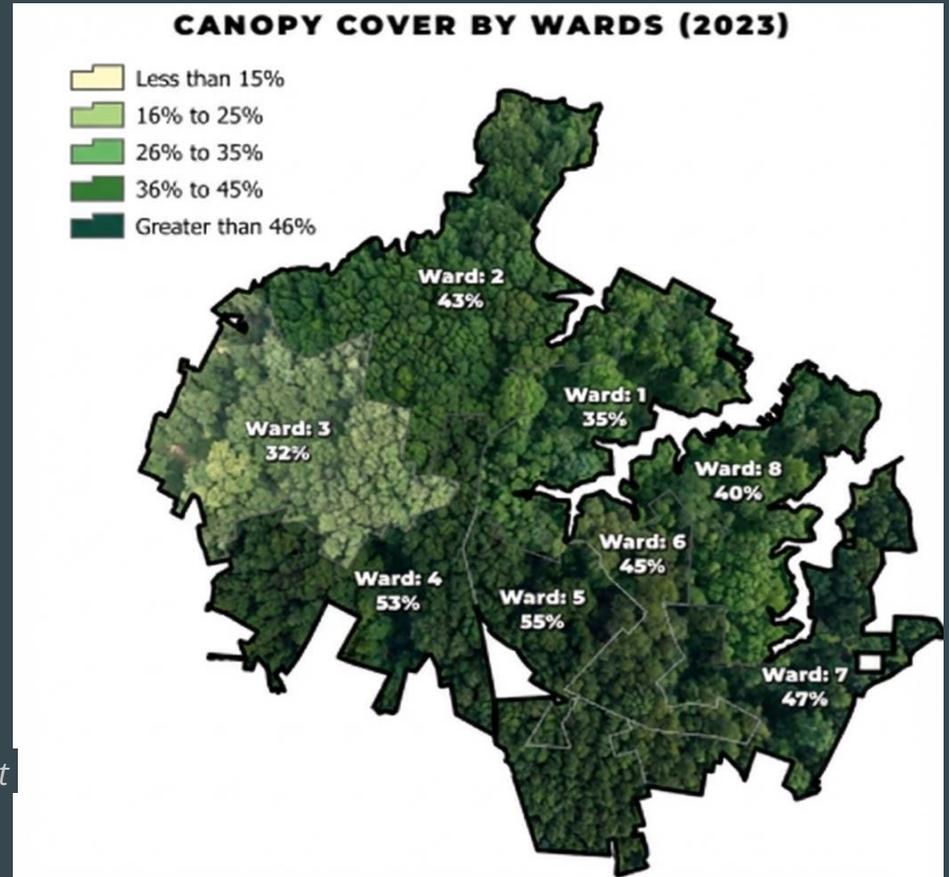
1,966 Urban Tree Canopy 2023

790 Plantable Space (Acres)

43% Canopy Cover

308 Canopy Needed (Acres)

Only 7% of the Annapolis tree canopy covers impervious surfaces leaving us more vulnerable to heat island impacts and increased stormwater runoff



MEETING OUR GOAL

- Proactive maintenance program
- Planting programs
 - Replant Annapolis
 - Free trees for residents
- Code and policy changes
 - FCA
 - Critical Area
 - Site Design Standards
- Grants
 - AA County Planting Mini Grant
 - Watershed Restoration and Forestry
- Resident engagement
- Canopy analysis every 5 years



PROGRAM BUDGET

	FY2027	FY2028	FY2029	FY2030	FY2031
Trees to be Planted	450	500	550	600	650
Planting Costs	\$210,000	\$237,500	\$275,000	\$300,000	\$325,000
Maintenance Costs	\$200,000	\$225,000	\$250,000	\$275,000	\$300,000
Additional Staff	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000
Other (Software)	\$15,000	\$15,000	\$15,000	*\$60,000	\$15,000
Total Cost	\$515,000	\$567,500	\$630,000	\$665,000	\$730,000
				*canopy and inventory update	