TREE CANOPY MANAGEMENT STRATEGY

Assessment of the Region's Tree and Forest Resources

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Tree Canopy – Triple Bottom Line Asset

- Water quality from forest lands & urban tree canopy
 - Non-fragmented & riparian forest lands reduce water pollution
 - Chesapeake Bay Program
 - Watershed Model accounting framework recognizes tree canopy land uses
 - Credits for urban tree BMPs can help achieve Watershed Improvement Plan goals & MS4 permit requirements
- Air quality, urban heat island, & climate change benefits
 - 1997 Ozone NAAQS State Implementation Plan (2007)
 - Smart Surfaces providing water quality, air quality, energy/climate, health, & economic benefits
- Quality of life parks, property values, silviculture



Regional Tree Canopy Workgroup

- Tree Canopy Management Strategy is a product of the Regional Tree Canopy Workgroup
- COG ad-hoc Workgroup established in 2007
 - Develop strategies, tactics, & recommendations to conserve & manage regional tree & forest resources
 - Identify opportunities to manage our urban forests collaboratively at a regional scale
- Local & state representation



Urban Forest Defined

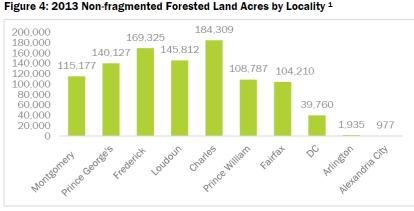
- 1. Street trees
- 2. Public trees
- 3. Residential trees
- 4. Urban trees
- 5. Wooded areas
- 6. Riparian buffers



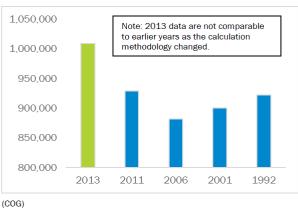


State of the Canopy

- Land clearing began prior to European settlement for hunting, agriculture & travel 50% forests cover of Chesapeake watershed
- Urbanization, agriculture, military activity, & timber harvests reduced forest to 40-50% by mid 20th century
- 2013 is new baseline prior USGS land cover data had less resolution
 - 2013 Chesapeake Conservancy Land Cover Data measure nonfragmented forest land equal to 1.01 million acres or 45.7% of 2.21 million acres







(COG)



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Threats to Tree Canopy

Threats to Forests

- Deer overpopulation and browse
- Fragmentation of forest ecosystems
- Invasive plants
- Loss of forested properties

Threats to Urban Tree Canopy

- Insufficient species diversity
- Inadequate planting space
- Insufficient funding for tree programs

Shared Threats to Urban Tree Canopy & Forests

- Pests and diseases
- Development and redevelopment of land
- Absences of regional forest planning
- Effects of climate change
- Lack of public awareness and support
- Storm damage



Local Action Examples

- 1885 Falls Church Village Improvement Society tree care & planting
- 1892 First Arbor Day in Virginia
- 1914 Maryland Roadside Tree Law
- 1973 Fairfax County tree preservation ordinance
- 1983 Takoma Park tree canopy ordinance
- 1989 Virginia legislation enabling tree preservation in development
- 2002 Casey Trees established
- 2004 Arlington County Urban Forest Master Plan
- 2009 Virginia legislation enabling tree conservation ordinance
- 2009 Fairfax tree conservation ordinance
- 2009 District & Fairfax County quantify environmental value of tree canopy
- 2013 Montgomery County Forest Conservation Law & Roadside Tree Protection Law



Local Urban Forest Programs

Table 3. Results Of 2018 Survey to Assess Urban Forest Programs Across the Region

Jurisdiction	Tree or Forest Protection Ordinance	Tree Canopy Assessment	Tree Canopy/ Forest Cover Goal	Plan to Increase Tree Canopy	On/off-site, Bank, fee-in- lieu Mitigation	GI, UF, GS Plan **	Tree City USA, 2017
District of Columbia		•					
Charles Co.	•	0		0		0	0
Frederick Co.	•	0				٠	0
Frederick	•			•		٠	
Montgomery Co.	•	•		0		٠	
Gaithersburg	•			•	•	٠	
Rockville	•	٠				٠	
Takoma Park						٠	
Prince George's Co.	•	•		•		٠	
Laurel						٠	
Bowie	•	•				٠	
College Park			0	•	0	٠	
Greenbelt		•			0	٠	
Hyattsville			•	•	0	۲	
Bladensburg	0		0	•	0	0	0
Alexandria	•	•	•	•		٠	
Arlington Co.	•					٠	
Fairfax Co.	•	•		•			
City of Fairfax	•	•	0		0	۲	
Falls Church					0	0	
Loudoun Co.		0			0		0
Prince William Co.		0			0		0
Manassas					0	O	
Manassas Park	0	0	0	0	0	٠	0
% Implemented + In Progress	90%	77%	77%	60%	42%	79%	75%

Table 3. Key

Unknown O Not Started

- In Progress/ Partially Applied
- Implemented/Yes

"Tree Canopy / Forest Cover Goal" updated from CEEPC 2013 survey

Gaithersburg, City of Fairfax, City of Falls Church, Bladensburg, College Park rely on underlying county tree canopy assessments

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GI = Green Infrastructure UF = Urban Forest GS = Green Space

Montgomery Co. and Loudoun Co. apply goals to specific developments or master plans

(COG)



Goals, Strategies & Implementation Steps

- 1. Protect, manage & expand urban forestry assets for health & quality of life
- 2. Optimize urban forest programs
- 3. Develop a regional urban forest action plan, & canopy goals
- 4. Inspire the community to take ownership of efforts to protect & expand urban forests
- 5. Integrate urban forestry with Region Forward



Recommendations

- 1. Encourage COG member jurisdictions to conserve and expand urban forests
- 2. Establish on-going forest policy advisory committee
- 3. Align regional urban forest initiatives & metrics with Region Forward vision (Accessible, Sustainable, Prosperous, Livable)



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