

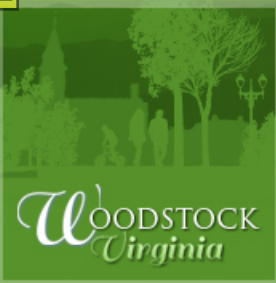
# Woodstock, Virginia

## Urban Forest Cloud Tree Canopy Planning Tools

WOODSTOCK  
Virginia







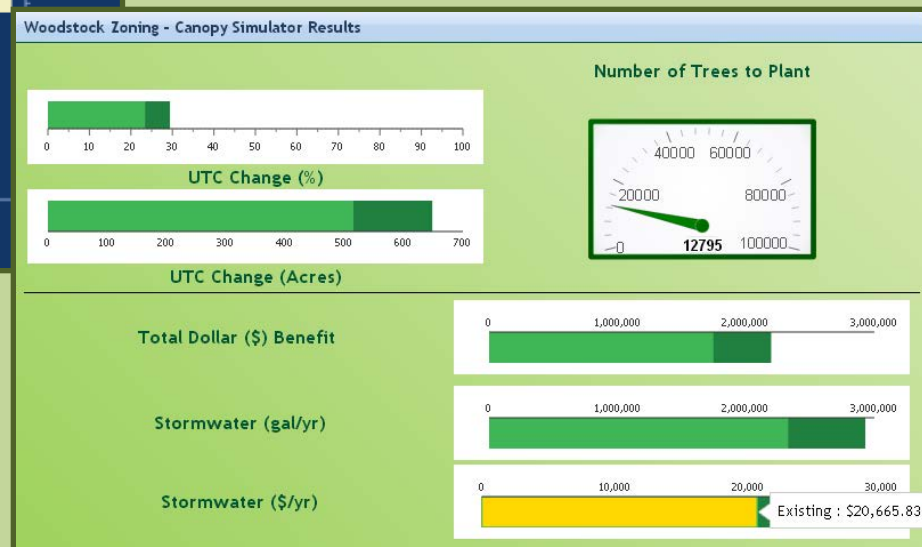
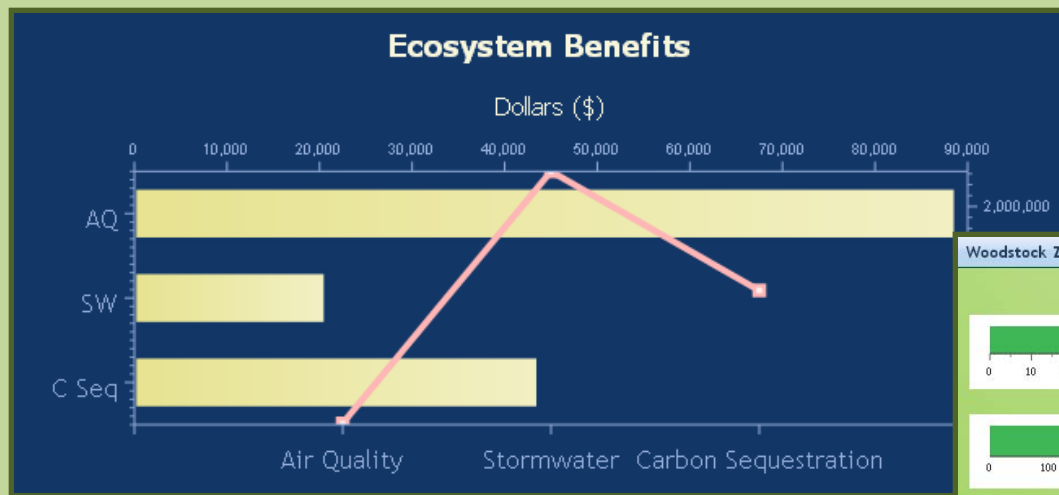
# About Woodstock

- Small, historic town located in the Shenandoah Valley
- Close proximity to Northern Virginia
- Close proximity to George Washington National Forest & Shenandoah National Park, Woodstock is flanked by the Shenandoah River
- Woodstock features (or nearby features) include visits to caverns, music and festival events, vineyards, dining, and many outdoor recreation opportunities



# Motivation & Goal for Participating

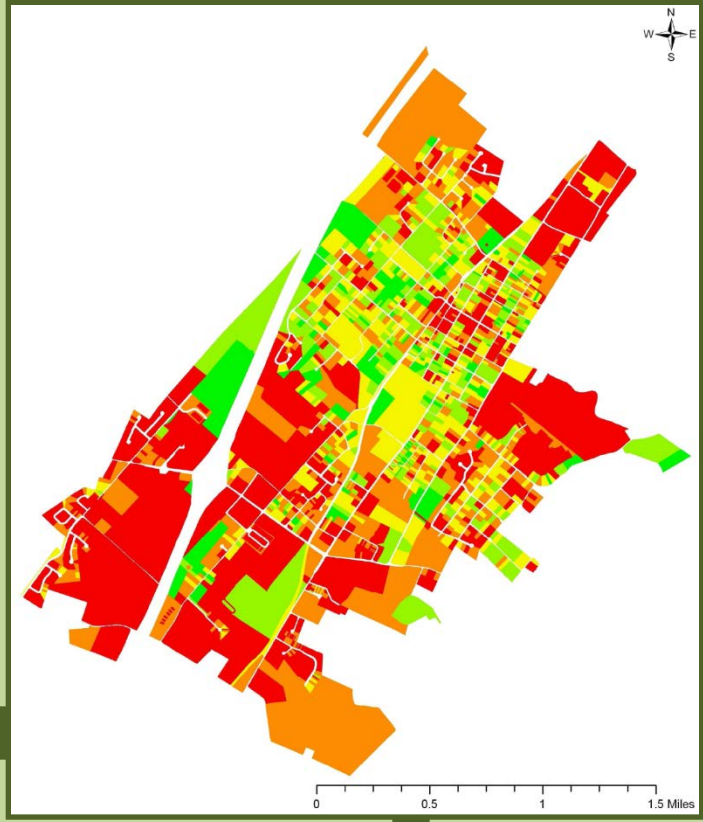
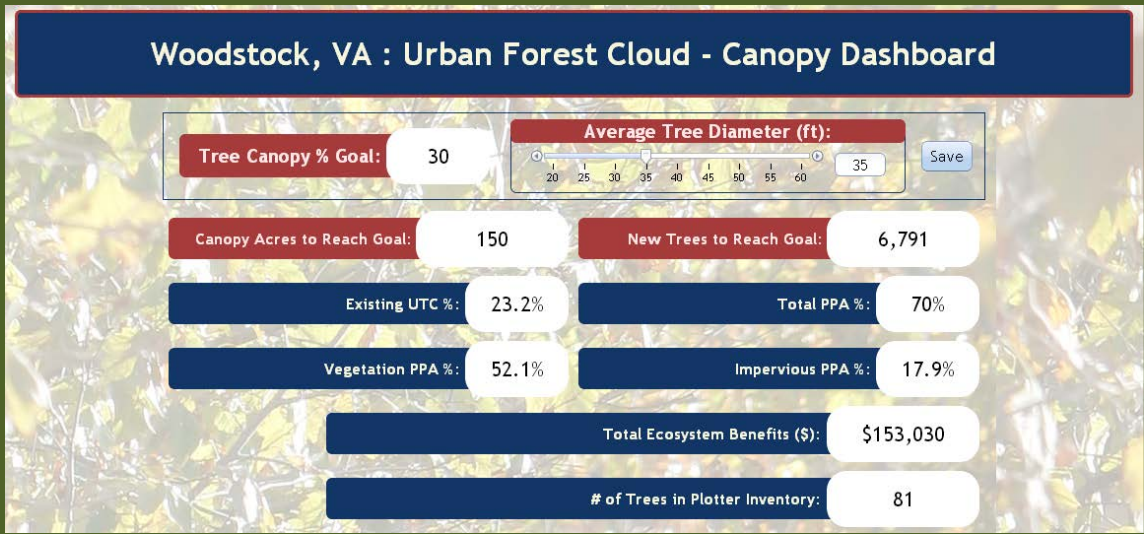
- Identification of potential planting areas – by land use
- Inform budgetary and policy decisions
- Use as an educational tool
- Use in making maps for grant applications



# Existing UTC Conditions & Opportunities



- Existing Conditions:
  - 21.7% UTC Based on 2008 Imagery
  - 23.2% UTC Currently
  - Town Council Goal = 30%
  - 30% = 6,791 TREES?!

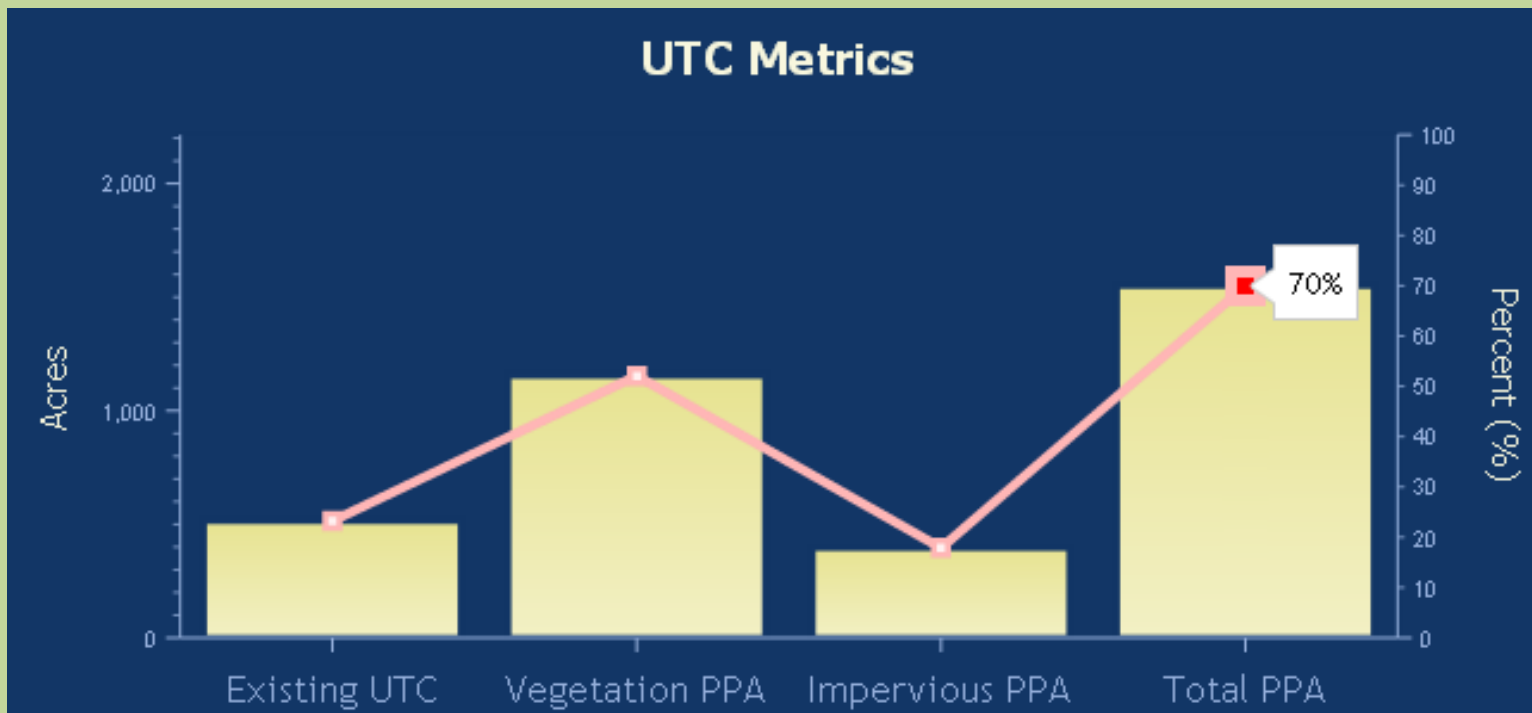




# Existing UTC Conditions & Opportunities



- Woodstock's Total Potential Planting Area = 70%



# Existing UTC Conditions & Opportunities

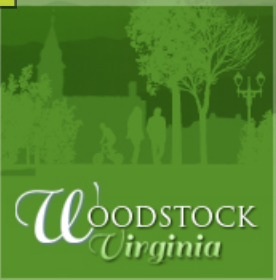
WOODSTOCK  
Virginia

- Strong Tree Board
- Small Staff
- Urban Forestry Ordinance
- Economic Development Focus
- Urban Forest Cloud Tool
- Beautification & Benefits

- Expert Advice/Volunteers!
- Interdisciplinary Approach
- Update
- Business+Trees
- GIS
- Risk Management & Spending



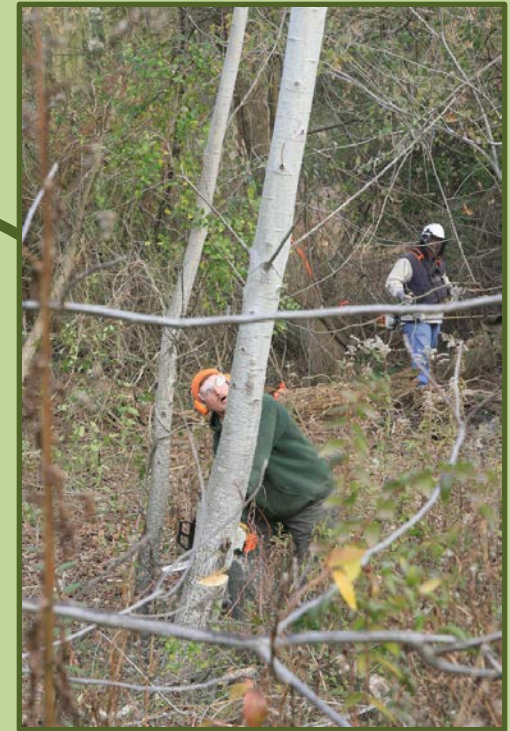
# UTC Plan Objectives



Tree Planting!



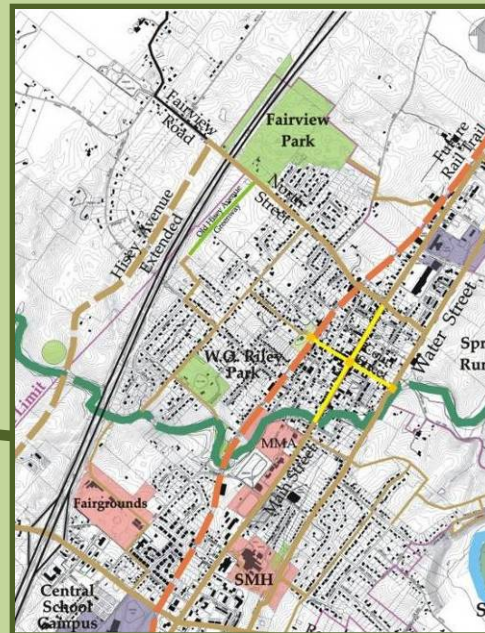
Education



Invasive Removal



Regulation



Protection & Connection



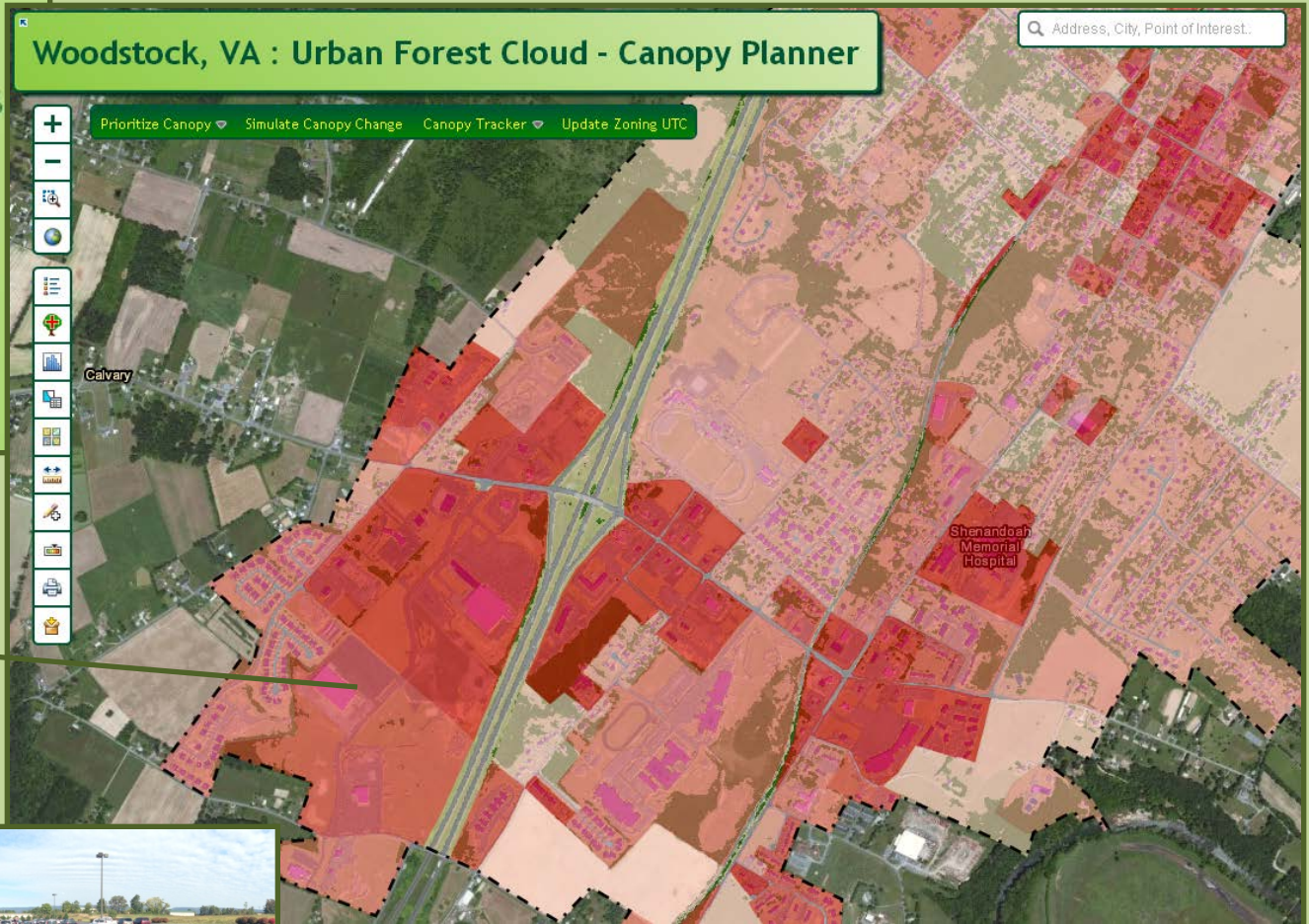


# Urban Forest Cloud Usage: Grant Application



## Woodstock Zoning

### Planting Area Impervious %





# Urban Forest Cloud Usage: Grant Application



## Woodstock, VA : Urban Forest Cloud - Canopy Planner

Prioritize Canopy Simulate Canopy Change Canopy Tracker Update Zoning UTC

- Add Canopy Addition Area
- Add Canopy Loss Area
- Add Canopy Protection Area
- Delete Area(s)

This screenshot shows the main interface of the Canopy Planner. It features a map of a residential and commercial area with several buildings highlighted in purple. A dropdown menu is open, listing actions: "Add Canopy Addition Area", "Add Canopy Loss Area", "Add Canopy Protection Area", and "Delete Area(s)". The top navigation bar includes "Prioritize Canopy", "Simulate Canopy Change", "Canopy Tracker", and "Update Zoning UTC".

Woodstock, VA : Urban Forest Cloud - Canopy Planner

Address, City, Po...

Prioritize Canopy Simulate Canopy Change Canopy Tracker Update Zoning UTC

### Woodstock Addition Areas

ID #	3
Name	Lowe's Parking Area Retrofit Pro...
Project Start Date	5/26/2014
Number of Trees Planted	8
New Canopy Acres Expected	
Type	Planting Project
Status	Proposed
Project Contact Person	Angela Clem
Total Project Costs (\$)	22,000

**Planting Purpose**

<input type="checkbox"/> Air Quality	<input checked="" type="checkbox"/> Aesthetics/Property Value
<input checked="" type="checkbox"/> Energy Conservation	<input type="checkbox"/> Environmental Equity
<input type="checkbox"/> Habitat Enhancement	<input type="checkbox"/> Noise Abatement / Traffic Calming
<input type="checkbox"/> Recreation Enhancement	<input checked="" type="checkbox"/> Stormwater Mitigation

Notes/Comments: Chesapeake Bay Restoration Fund Grant

This screenshot shows a detailed view of a project entry in the Canopy Planner. The project is titled "Lowe's Parking Area Retrofit Project" and is a "Planting Project" with a status of "Proposed". It is managed by Angela Clem and has a total cost of \$22,000. The planting purpose is selected as "Aesthetics/Property Value" and "Stormwater Mitigation". The project is funded by the "Chesapeake Bay Restoration Fund Grant". The background shows a map of the same area with purple highlighted buildings.

# Urban Forest Cloud Usage: Citizen Education



## Woodstock, VA : Urban Forest Cloud - Canopy Planner

Prioritize Canopy Simulate Canopy Change Canopy Tracker Update Zoning UTC

**Query:**

Choose Layer: Woodstock Zoning

Query Type:  AND  OR [Select By Extent](#)

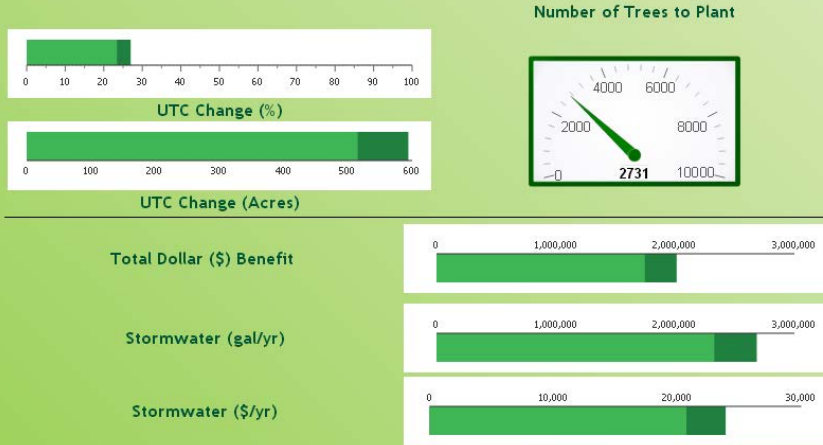
Filter Values:

UTC Zoning IS Agriculture Commercial Industrial Public

Existing Tree Canopy % < 20

[Apply Selection](#) [Apply Filter](#) [Remove Filter](#) 44 / 185

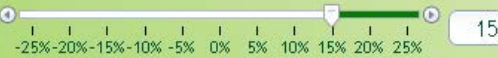
### Woodstock Zoning - Canopy Simulator Results



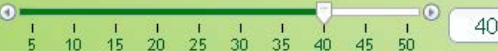
### Simulate Canopy Change

Layer: Woodstock Zoning

Change to Existing UTC Percent



Average Full Grown Tree Crown Diameter (ft)



[Reset](#) [Open Charts](#) [OK](#)



# Urban Forest Cloud Usage: Grant Application



### Woodstock, VA : Urban Forest Cloud - Tree Plotter

Address, City, Point of Interest

**Woodstock Tree Inventory**

- Street Tree
- Park Tree
- Memorial Tree
- Other Public Tree
- Private Tree
- Proposed Tree Planting

**Woodstock Addition Areas**

Woodstock Addition Areas

**Woodstock Loss Areas**

Woodstock Loss Areas

**Woodstock Protection Areas**

Woodstock Protection Areas

**Existing Feature** (2 of 2)

Tree ID: 1

Tree Type: Street Tree

Street Name: N Main St

Address #: 489

Location: VDOT ROW

Site Type: Planting Strip

Species: Elm

DBH:

Utility: No Lines Present

Condition:

Management Need:

Latitude: 38.8876

Longitude: -78.5009

Surveyor Name:

Notes/Comments: 'Allee' Lacebark Elm (DED Resistant)

Save Delete Copy

**TRIBUTE TREES**  
Woodstock Commemorative Tree Program



# Contact Us

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