

Virginia's Street Trees: Ambassadors of the Urban Forest

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Virginia Cooperative Extension

A partnership of Virginia Tech and Virginia State University www.ext.vt.edu



August 15th 2012

Street Trees in Virginia ~

What We Have, What We Want,
& How We Get There

PRESENTATION OVERVIEW

- Workshop context
- Workshop objectives
- Brief history of street trees
- Tour of Virginia Street Tree Assessment Project website

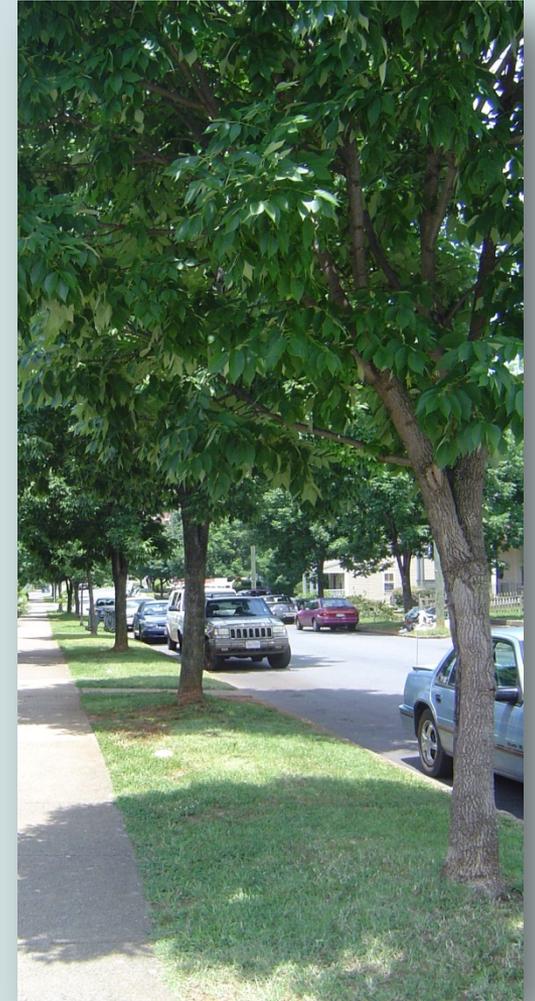


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WORKSHOP CONTEXT

Why are street trees ambassadors of the urban forest?

- Street trees are immersed in the built environment
- Citizens have a high level of interaction with them
- Their assets and liabilities are readily noticed by the public
- Citizens form their opinions and values of urban forests based on their experiences with street trees



WORKSHOP CONTEXT

Where are we right now?

59% Say Creating New Jobs More Important Than Protecting Environment

in [Politics](#)

 [Email this](#)  [Share This](#)

Tuesday, January 24, 2012

Despite President Obama's decision last week to delay the Keystone XL pipeline from Canada to Texas for environmental reasons, most voters think creating jobs trumps the environment.

A new Rasmussen Reports national telephone survey finds that 59% of Likely U.S. Voters say, generally speaking, that creating new jobs is more important than environmental protection. Twenty-nine percent (29%) disagree and say protecting the environment is more important. Another 12% are not sure. (To see survey question wording, [click here](#).)



WORKSHOP CONTEXT

Where are we right now?

**Two National Surveys of 1,000 Likely Voters
June 27-28 and July 1-2, 2012**

ISSUE	VERY IMPORTANT
Economy	74%
Health Care	67%
Gov't Ethics and Corruption	64%
Taxes	55%
Energy Policy	44%
Education	55%
Social Security	60%
Immigration	47%
National Security/War on Terror	46%
Afghanistan	30%

RASMUSSENTM
REPORTS

Thursday, July 05, 2012

www.rasmussenreports.com

WORKSHOP CONTEXT

Where are we right now?

Save Urban & Community Forestry Program from Being Repealed!



Washington, DC (June 18, 2012)- Help save the U.S. Forest Service Urban and Community Forestry Program! Among the hundreds of Farm Bill amendments filed in the Senate is Amendment 2292 from Sen. Tom Coburn (R-OK) that would repeal the U.S. Forest Service Urban and Community Forestry (U&CF) Program. This amendment has been identified as one of 40 priority amendments by Senate Republicans. ACTrees believes U&CF is a vital program. We strongly encourage you to reach out to your Senators and ask that they oppose Amendment 2292. Votes are expected as early as today, Monday June 18.

ACTrees fully supports the U&CF Program, which provides assistance to over 7,000 communities in all states and territories. Many state forestry agencies rely on funds from the federal U&CF program to provide assistance and cost-share grants to communities. If you have ever received training, technical assistance, or funding from your state urban and community forestry program, you have benefited from the federal investment in the U.S. Forest Service U&CF program.

The [flawed reasoning](#) behind [Amendment 2292](#) suggests that local and national nonprofits can do the work of the U&CF program, without U&CF assistance. Tell your Senators that's not true-U&CF is vital for supporting, enhancing, and innovating the community forestry work that nonprofits are doing in cities and towns all across the country.



WORKSHOP CONTEXT

Where are we right now?

Eastern U.S. storms kill 13, cut power to millions

35

Like 83

Tweet 19

Share 5

Short URL Email Print



By ASSOCIATED PRESS | 6/30/12 8:00 AM EDT Updated: 6/30/12 9:54 PM EDT

WASHINGTON — Millions across the mid-Atlantic region sweltered Saturday in the aftermath of violent storms that pummeled the eastern U.S. with high winds and downed trees, killing at least 13 people and leaving 3 million without power during a heat wave.

WORKSHOP CONTEXT

Where are we right now?

High winds and mature trees prove to be a dangerous mix

Summer's storms highlight need for inspections

COMMENTS (1) SIZE: + / - PRINT



By Meredith Somers - The Washington Times

Monday, July 30, 2012

Follow @meredithsomers



Enlarge Photo

Erin Hodges and her fiance John Hopewell of Falls Church get around ... [more >](#)

PHOTO GALLERY:



3 Photos

Violent storms last month and a deadly incident two weeks ago are amplifying the danger presented by falling trees and tree limbs, which can be a hazard to houses, cars, people and power lines.

On July 17, a 64-year-old Reston man was crushed to death by a 100-foot oak tree that fell on his car in Great Falls. An arborist with the [Virginia Department of the Environment](#) said the tree was rotten on the inside, but no one had called to complain about the ivy-covered behemoth in the many years it stood along [Georgetown Pike](#).

Dying trees are a hazard in themselves, but experts said people need to watch out even for the healthiest trees, especially after severe weather — something the D.C.-area has had no shortage of this year.

At the end of June, a rare derecho storm tore through the mid-Atlantic region, bringing with it 60 mph winds that ripped roofs from homes and knocked over thousands of trees and pulled down electrical lines. Nearly 30 deaths nationally were attributed to the storm, including one 90-year-old woman in Virginia who died when a tree fell through her roof, and a tree-trimmer working in Garrett County, Md., who fell to his death trying to remove debris. A D.C. woman was paralyzed after a tree landed on her while she was riding her motorcycle during the storm.

WORKSHOP CONTEXT

Where are we right now?



Monday, August 06, 2012

Restoring power post-storm cost \$37 million, Appalachian Power reports

By Laurence Hammack | The Roanoke Times

More than a month after a windstorm caused record power outages, Appalachian Power Co. has put a price tag on restoring electricity to its Virginia customers – \$37 million.

But it's still too soon to say whether the costs of repairing downed power lines will be passed on to customers in the form of a rate increase, a spokesman for the utility said today.

Appalachian spent a total of \$94 million repairing damage in Virginia and West Virginia caused by a derecho storm that hit the night of June 29, downing trees and power lines with wind gusts of 80 mph.

At the peak of the crisis, about 243,000 Appalachian customers in Virginia were powerless.

Appalachian will factor in the \$37 million cost of restoring electricity in its next biennial proposal, due in March, to the State Corporation Commission, the agency that has the final say on rate increases.

Although the cost of the storm will be included in Appalachian's proposal, "we can't say with certainty that it will result in a rate increase," spokesman Todd Burns said.

WORKSHOP CONTEXT

Where are we right now?



WORKSHOP CONTEXT

Where are we right now?

Do Unsafe Streets Prevent Us From Walking and Biking?

by JOSEPH CUTRUFO on Tuesday, May 24, 2011 at 1:45 PM



6 likes. Sign Up to see what your friends like.

A new study in the American Journal of Public Health says that Americans aren't walking or cycling as much as we think they are. Even though [transit use is up](#), active transportation has mostly stagnated.

The [research](#), which was conducted by Dr. John Pucher of Rutgers University's Bloustein School of Planning and Public Policy, shows that walking has increased (though not by much) among those who are well-educated, employed, and living without a car. It's also mostly men who are walking and cycling more. Despite programs designed to get [women, children and seniors](#) walking more for health and transportation, these segments of the population are actually walking less now than they were a decade ago.



WORKSHOP CONTEXT

Where are we right now?



dcc-stpaul-mpls.org

Street Tree Functions

- Traffic calming
- Physical barrier
- Shade
- Stress relief

WORKSHOP CONTEXT

Where are we right now?

Asthma in the US

Growing every year

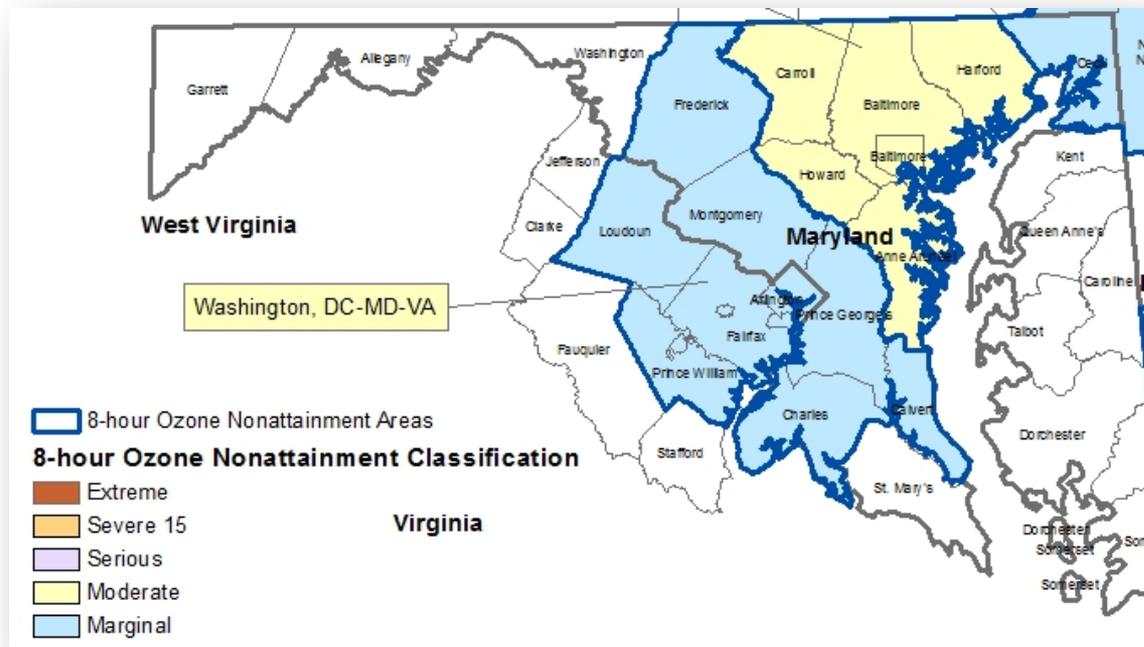
CDC
VitalSigns™
May 2011

1 in 12

12M

\$56
Billion

www.cdc.gov/VitalSigns/Asthma



What Can Be Done



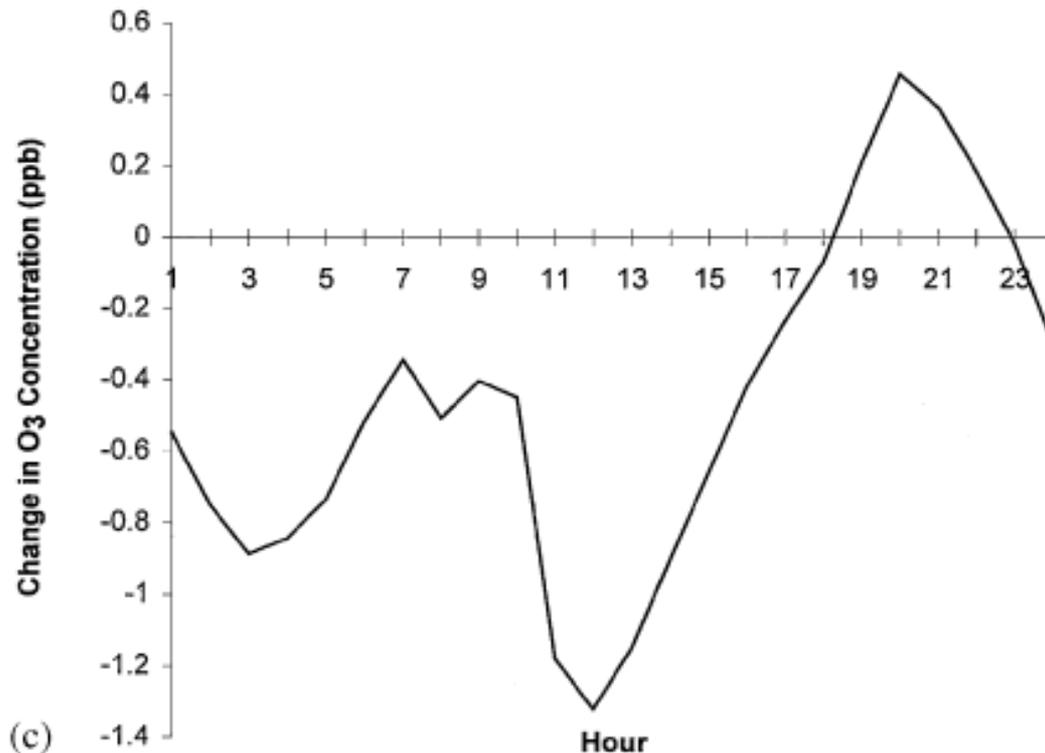
Federal, state, and local health officials can:

- Track asthma rates and the effectiveness of control measures so continuous improvements can be made in prevention efforts.
- Promote influenza and pneumonia vaccination for people with asthma.
- Promote improvements in indoor air quality for people with asthma through measures such as smoke-free air laws and policies, healthy schools and workplaces, and improvements in outdoor air quality.

www.epa.gov/oar/oaqps/greenbk

WORKSHOP CONTEXT

Where are we right now?



A modeling study of the impact of urban trees on ozone

David J. Nowak^{a,*}, Kevin L. Civerolo^b, S. Trivikrama Rao^b, Gopal Sistla^b,
Christopher J. Luley^c, Daniel E. Crane^a

Atmospheric Environment 34 (2000) 1601–1613

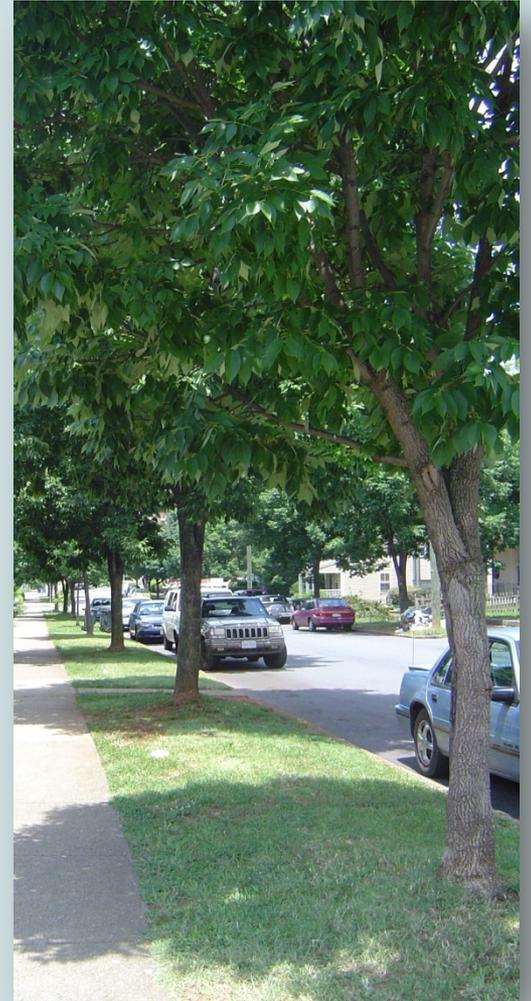
Increasing urban tree cover from 20 to 40% led to:

“Overall, 8-hour average ozone concentration in urban areas dropped by 0.5 ppb (1%) throughout the day.”

“However, nighttime ozone concentrations increased due to reduced wind speeds and loss of NO_x scavenging of ozone from increased deposition of NO_x.”

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WORKSHOP OBJECTIVES

- Learn about the abundance, composition, and benefits of Virginia's street trees through an unprecedented i-Tree study
- Identify challenges and opportunities facing Virginia's street trees
- Improve the value and sustainability of our municipal street trees by applying basic principles and leveraging our collective resources



PRESENTATION OVERVIEW

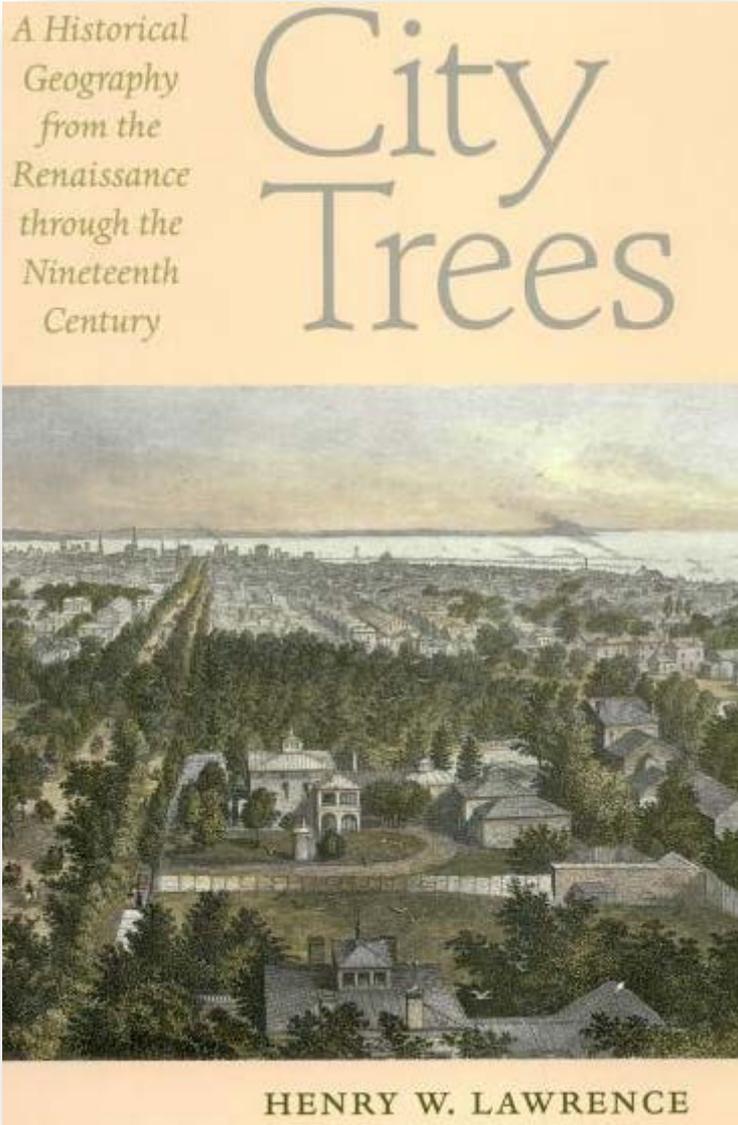
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BRIEF HISTORY OF STREET TREES



Books

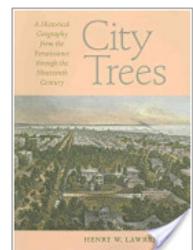
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[Find in a library](#)
[All sellers »](#)

City Trees: A Historical Geography from the Renaissance Through



[x+1](#) [0](#)
[Henry W. Lawrence](#)
★★★★★
0 Reviews

University of Virginia Press, Nov 30, 2008 - 336 pages
For those who have ever wondered why we have trees in cities
Trees: A Historical Geography from the Renaissance through t
guide to the history of trees in urban landscapes. Covering four
trees became integral to urban landscapes by looking at the h
[More »](#)

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[Preview this book »](#)



City Trees: A Historical Geography from the Renaissance Books) [Paperback]

[Henry W. Lawrence](#) (Author)

★★★★★ (1 customer review) | [Like](#) (0)

Price: **\$35.00** & this item ships for **FREE with Super Saver Shipping.**

Only 6 left in stock (more on the way).

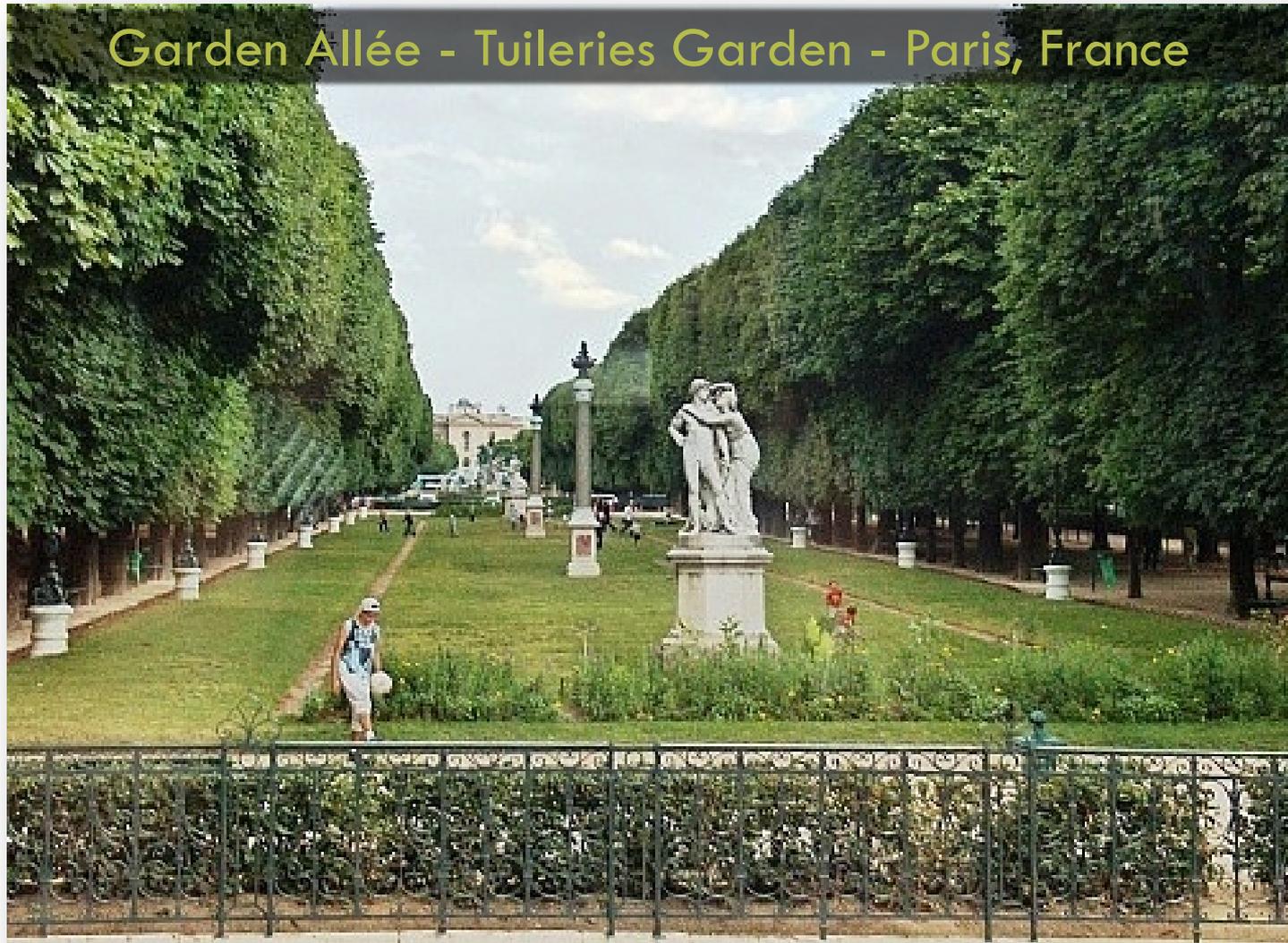
Ships from and sold by **Amazon.com**. Gift-wrap available.

Want it delivered Wednesday, August 15? Order it in the next 3 hours and 42 m

14 new from \$34.99 **10 used** from \$14.00

BRIEF HISTORY OF STREET TREES

Modern concepts of street trees traced to Renaissance Europe

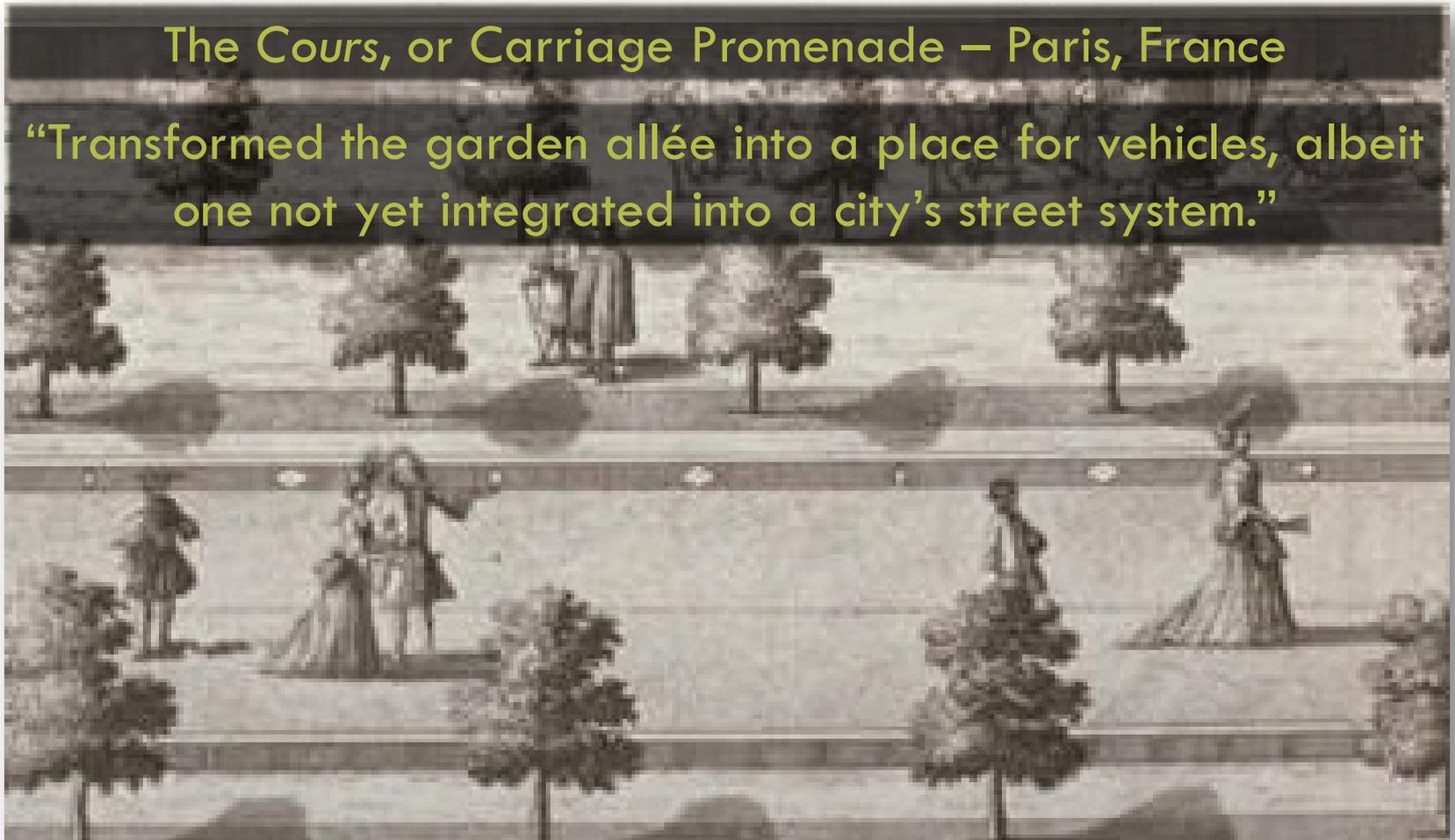


BRIEF HISTORY OF STREET TREES

Modern concepts of street trees traced to Renaissance Europe

The Cours, or Carriage Promenade – Paris, France

“Transformed the garden allée into a place for vehicles, albeit one not yet integrated into a city’s street system.”



BRIEF HISTORY OF STREET TREES

Modern concepts of street trees traced to Renaissance Europe

Cours de la Reine – Paris, France (1616)



BRIEF HISTORY OF STREET TREES

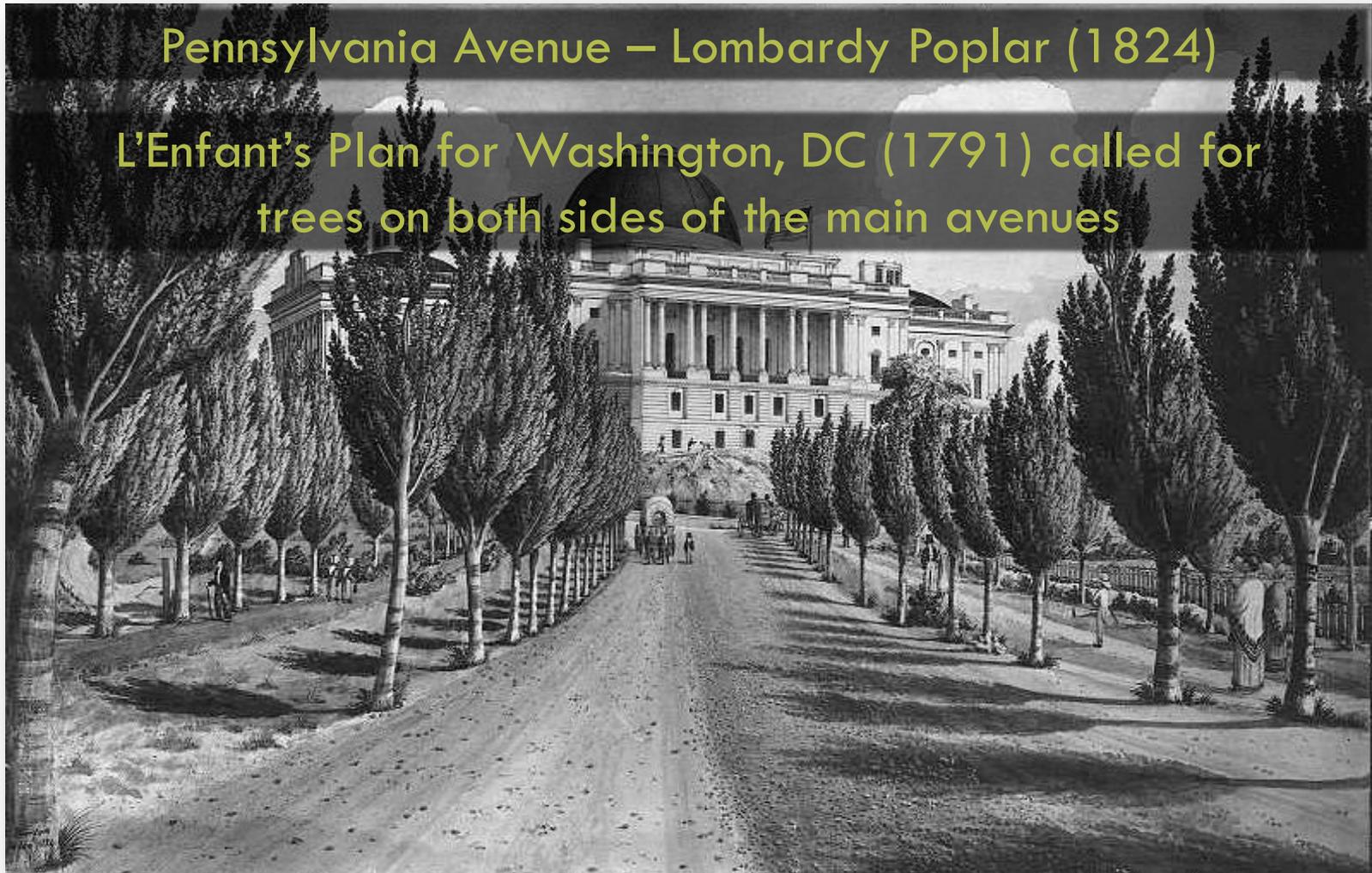
Modern concepts of street trees traced to Renaissance Europe

Avenue des Champs-Élysées – Paris, France (1724)



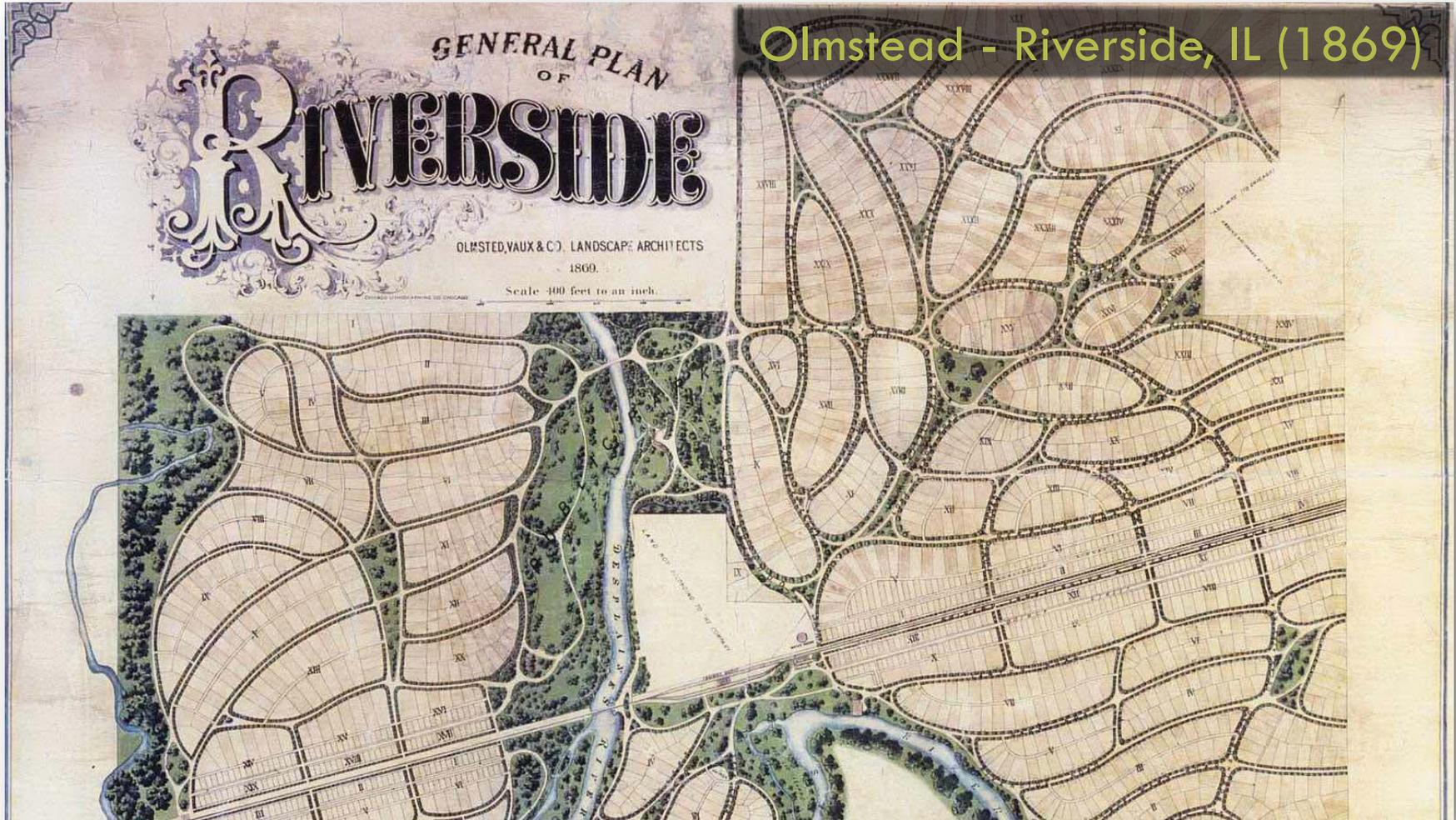
BRIEF HISTORY OF STREET TREES

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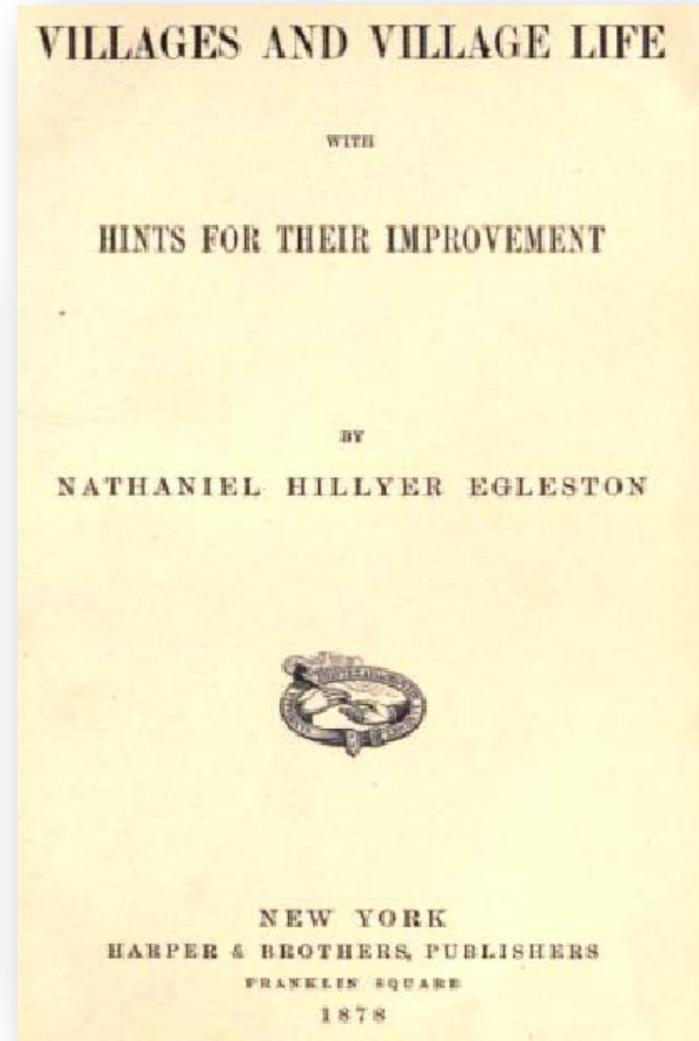
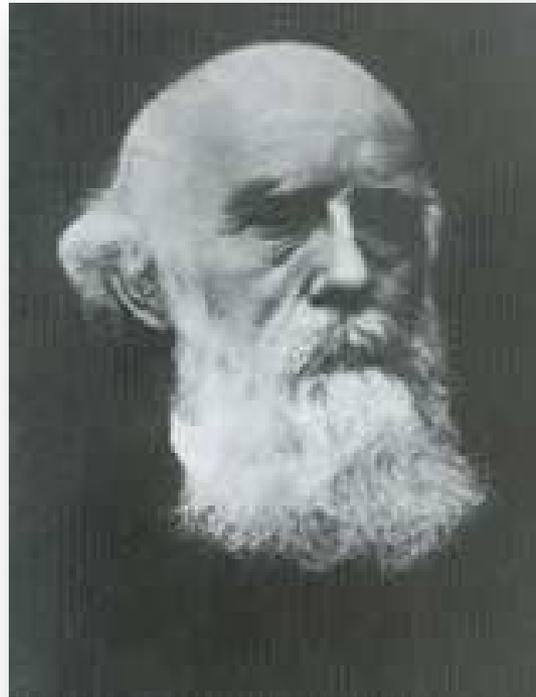
Americans developed concepts of design and management



BRIEF HISTORY OF STREET TREES

Americans developed concepts of design and management

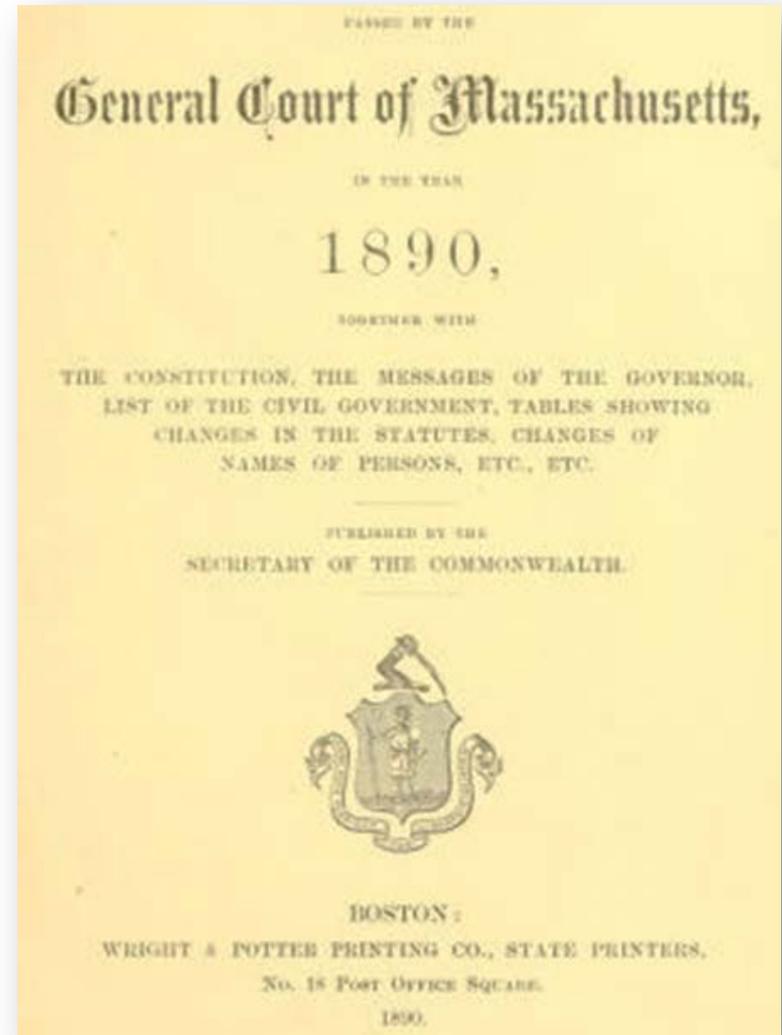
Nathaniel Eggleston
2nd Chief of USDA Forestry
Division (1883-86)



BRIEF HISTORY OF STREET TREES

Americans developed concepts of design and management

Nail Laws enabled towns to distinguish which shade trees were public; MA (1890)



BRIEF HISTORY OF STREET TREES

Americans developed concepts of design and management

Nail Laws enabled towns to distinguish which shade trees were public; MA (1890)

AN ACT RELATIVE TO PRESERVING ORNAMENTAL AND SHADE TREES *Chap.196*
ON THE HIGHWAYS.

Be it enacted, etc., as follows:

SECTION 1. The mayor and aldermen of the cities and the selectmen of the towns within the Commonwealth are hereby authorized to designate and preserve, as herein-
Shade, etc., tree to be designated and preserved.

after provided in this act, trees within the limits of the highways for the purposes of ornament and shade; and to so designate not less than one such tree in every thirty-three feet where such trees are growing and are of a diameter of one inch or more.

Method of designation.

SECTION 2. Said mayor and aldermen and selectmen shall, between the first day of September and the thirty-first day of December in each year, designate such trees as are selected by them for the purposes set forth in this act by driving into the same, at a point not less than four nor more than six feet from the ground and on the side toward the center of the highway, a nail or spike with a head with the letter M plainly impressed upon it; said nails and spikes to be procured and furnished by the secretary of the Commonwealth to said mayor and aldermen and selectmen as required by them for the purposes of this act. Said mayor and aldermen and selectmen, between the first day of September and the thirty-first day of December of each succeeding year, shall renew such of said nails and spikes as shall have been destroyed or defaced; and shall also designate, in the same manner as hereinbefore stated, such other trees as in their judgment should be so designated to carry out the requirements of this act.

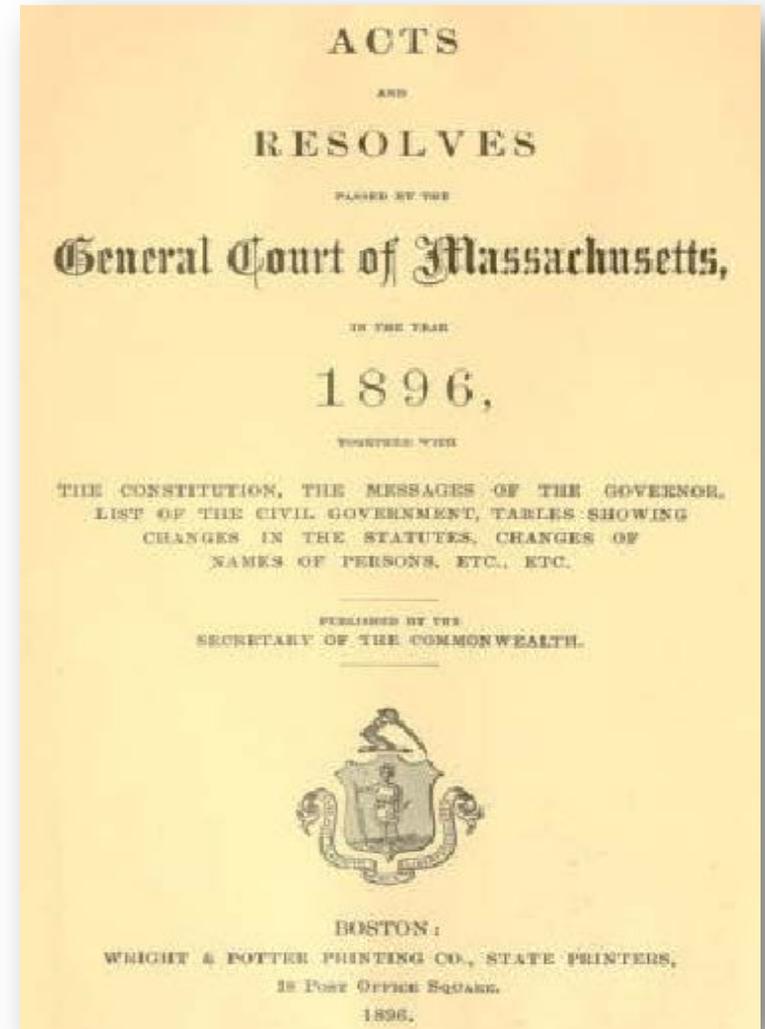
BRIEF HISTORY OF STREET TREES

Americans developed concepts of design and management

Nail Laws enabled towns to distinguish which shade trees were public; MA (1890)

Tree Warden Laws enabled towns to appoint a warden to care for and protect public trees

Philadelphia hired **Chief Forester John C. Lewis** – might be the first professional urban forester in America by title.

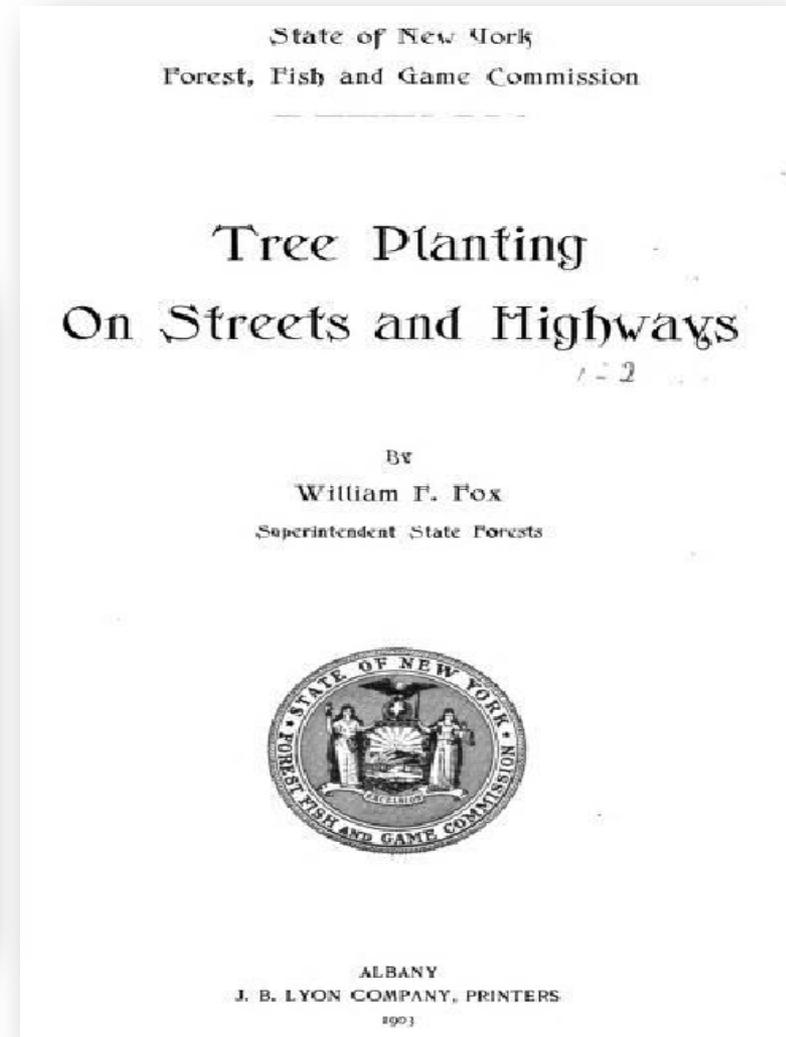


BRIEF HISTORY OF STREET TREES

Americans developed concepts of design and management

William Fox

NY Superintendent of
State Forests



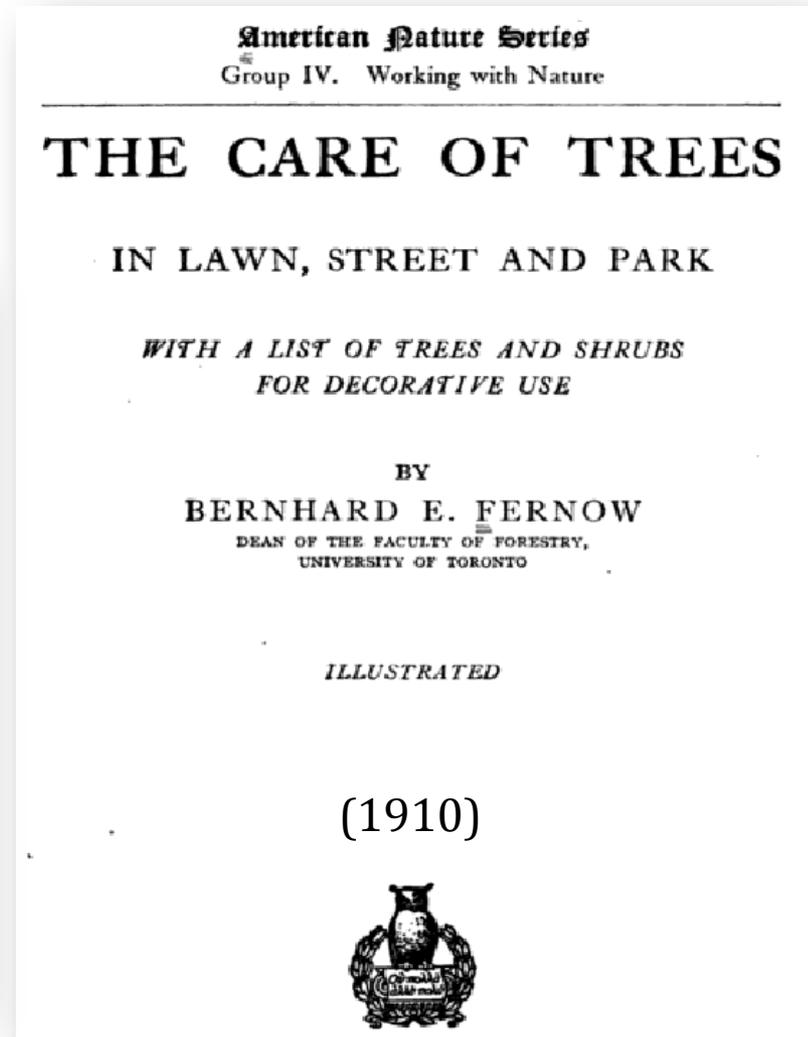
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Bernhard Fernow
3rd Chief of USDA
Forestry Division



en.wikipedia.org



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en.wikipedia.org

THE CARE OF TREES

CHAPTER I

INTRODUCTORY



HIS book is not a sentimental effusion on the beauty and need of trees, but a compilation of information such as the owner of trees may be in search of.

Throughout our entire continent, especially in its more settled parts, and most of all in its cities, there has never before been such widespread interest as is now manifested in trees and tree-planting for shade and ornament. Although this kind of tree-planting has been quite assiduously practised in past generations, and although as a result we are the heirs of stately elms and oaks and maples, the necessity of greater care for this inheritance has only of late been fully realized. As a consequence, the "Tree Warden" and "City Forester" have become recognized institutions, and the statutes of several states for the protection of planted trees bear testimony to the popular sentiment, and to the conception that the care of public shade trees is a public duty.

Although with this awakened interest there has come forward a large amount of information regarding the care of trees, in the form of bulletins and essays, these generally confine themselves to some particular phase of the subject; a collective and more comprehensive manual, so far as the writer knows, is still lacking. It is to supply this gap that

BRIEF HISTORY OF STREET TREES

Americans developed concepts of design and management

1918 – Milwaukee, WI forestry program begins when Otto W. Spidel is hired as city forester with a salary of \$2,025 and a budget of \$15,000



1925 – Green Bay, WI initiates first street tree planting program

1939 – Madison, WI street tree inventory conducted by Work Projects Administration (WPA)

Year	Trees Removed	Trees Surviving	Stumps Removed	Trees Planted by WPA	Trees Planted by City	Trees Planted by Private	Replacements	Number of Permits Written	Number of Telephone Calls	Inspections
1931	16	35	1300	1	4	0	0	0		
1932	70	83	1000	32	11	0	5	63		
1933	208	296	9	92	61	1	6	203	1850	724
1934	289	222	25	64	64	7	13	528	3200	1145
1935	329	243	31	58	105	32	0	623	3500	1350
1936	738	1180	12	3	447	88	38	1032	4600	2100
Total	1890	2059	2377	247	732	128	55	2449	12950	6329

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BRIEF HISTORY OF STREET TREES

Americans developed concepts of design and management



www.ontarioforesthistry.ca

Eric Jorgensen (l) and graduate student Bill Morsink (r)

“A specialized branch of forestry that has as its objectives the cultivation and management of trees for their present and potential contribution to the physiological, sociological and economic well-being of urban society.” ~ Jorgensen (1967)

16 USC Chapter 41 - COOPERATIVE FORESTRY ASSISTANCE

(c) General authority

The Secretary is authorized to provide financial, technical, and related assistance to State foresters or equivalent State officials for the purpose of encouraging States to provide information and technical assistance to units of local government and others that will encourage cooperative efforts to plan urban forestry programs and to plant, protect, and maintain, and utilize wood from, trees in open spaces, greenbelts, roadside screens, parks, woodlands, curb areas, and residential developments in urban areas. In providing such assistance, the Secretary is authorized to cooperate with interested members of the public, including nonprofit private organizations. The Secretary is also authorized to cooperate directly with units of local government and others in implementing this section whenever the Secretary and the affected State forester or equivalent State official agree that direct cooperation would better achieve the purposes of this section.

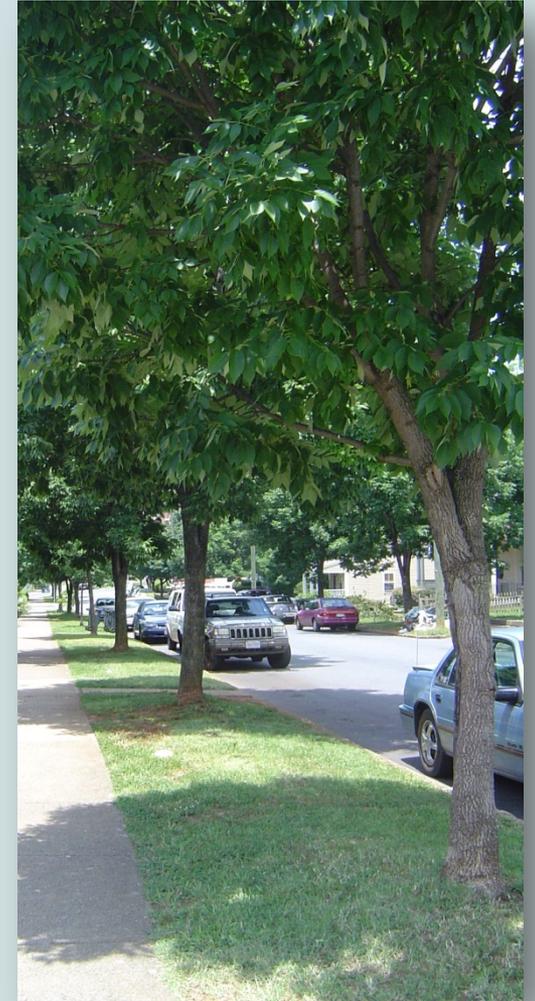
(d) Program of education and technical assistance

The Secretary, in cooperation with State foresters and State extension directors or equivalent State officials and interested members of the public, including nonprofit private organizations, shall implement a program of education and technical assistance for urban and community forest resources. The program shall be designed to—

- (1) assist urban areas and communities in conducting inventories of their forest resources, including inventories of the species, number, location, and health of trees in urban areas and communities, identifying opportunities for the establishment of plantings for the purposes of conserving energy, and determining the status of related resources (including fish and wildlife habitat, water resources, and trails);

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Ambassadors of the Urban Forest

TOUR OF STREET TREE ASSESSMENT WEBSITE

urbanforestry.frec.vt.edu/streets/index.html

Virginia Street Tree Assessment Project

An application of i-Tree Streets

[HOME](#) [LOCALITY REPORTS](#) [RESOURCES](#) [ASSESS YOUR TREES](#) [COLLABORATORS](#) [ABOUT US](#)

Welcome!

The Virginia Street Tree Assessment Project is a collaboration between the Virginia Tech Department of Forest Resources & Environmental Conservation and the Virginia Department of Forestry. The goal of this project is to improve our understanding of the abundance, composition, and benefits of municipal street trees throughout the Commonwealth. Since 2008, project collaborators have partnered with over twenty Virginia municipalities to inventory and assess their street trees.



Why Street Trees?

Street trees are arguably the most vital component of the public urban forest. Typically situated in the public right-of-way between the edge of roadway pavement and adjacent private property, these trees can provide a range of important social, economic, and environmental benefits, including:

- Safer and more comfortable walking environments
- Reduced urban traffic speeds
- Greater shopping and tourism activity
- Increased real estate value
- Longer pavement life
- Less stormwater runoff
- Lower air temperatures and energy costs

Links

- [VT Urban Forestry Gateway](#)
- [i-Tree: Urban Forestry Assessment Tools](#)
- [Virginia Geospatial Extension Program](#)
- [Virginia Urban Forest Council](#)

Related Projects

- [Urban Tree Canopy Analysis of Virginia Localities](#)
- [Municipal Urban Forest Assessments](#)
 - [Town of Abingdon](#)
 - [City of Charlottesville](#)
 - [City of Falls Church](#)
 - [City of Roanoke](#)
 - [City of Winchester](#)

Contact Us

Eric Wiseman, Project Leader
228 Cheatham Hall
Blacksburg, VA 24061

TOUR OF STREET TREE ASSESSMENT WEBSITE

Virginia Street Tree Assessment Project
An application of i-Tree Streets

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Locality Reports

The table below contains summary statistics for the street tree assessments conducted to date. Place the mouse pointer over each column header to see a description of the metric. For an overview of the methods used to conduct these street tree assessments, visit Resources.

Locality	Inventory Type	Street Tree Population	Annual Benefits (\$)	Replacement Value (\$)	Links
Abingdon	Complete	1,193	65,171	2,829,814	report
Alexandria	Complete	7,565	1,047,157	22,171,857	report
Arlington CDP	Complete	20,355	2,145,911	35,615,750	report
Buchanan	Sample	771 (±112)	34,380 (±5,005)	1,467,544 (±213,639)	report
Charlottesville	Complete	5,988	603,290	28,892,459	report
Culpeper	Sample	1,733 (±219)	94,861 (±11,977)	3,545,449 (±447,633)	report
Emporia	Sample	1,042 (±163)	55,037 (±8,583)	4,828,583 (±753,038)	report
Falls Church	Sample	3,935 (±401)	668,996 (±68,237)	16,831,983 (±1,716,836)	report
Farmville	Sample	3,613 (±366)	195,644 (±18,000)	9,452,069 (±1,050,000)	report

Links

- [VT Urban Forestry Gateway](#)
- [i-Tree: Urban Forestry Assessment Tools](#)
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- [Virginia Urban Forest Council](#)

Related Projects

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 - [City of Falls Church](#)
 - [City of Roanoke](#)
 - [City of Winchester](#)

Contact Us

Eric Wiseman, Project Leader
228 Cheatham Hall
1000 University Ave, Charlottesville, VA 22904

TOUR OF STREET TREE ASSESSMENT WEBSITE

urbanforestry.frec.vt.edu/streets/reports.html

Winchester	Sample	8,990 (± 774)	980,731 ($\pm 84,400$)	33,228,972 ($\pm 2,859,631$)	report
Wytheville	Sample	6,159 (± 674)	425,963 ($\pm 46,614$)	17,487,620 ($\pm 1,913,702$)	report

Click the place marks to learn more about that locality's urban forest

View Larger Map

© 2010, Virginia Tech, Department of **Forest Resources and Environmental Conservation**
Design by: **styleshout** and **S.B. Gugercin**

TOUR OF STREET TREE ASSESSMENT WEBSITE

urbanforestry.frec.vt.edu/streets/treeselection.html

Virginia Street Tree Assessment Project

An application of i-Tree Streets

HOME LOCALITY REPORTS RESOURCES ASSESS YOUR TREES COLLABORATORS ABOUT US

Tree Selection Tools

Virginia Tech's **Virginia Urban Street Tree Selector**: 7 selection criteria and 74 candidate species, focused specifically on urban street trees.

Urban Forest Ecosystem Institute's **SelectTree**: an interactive program designed to match specific tree species to particular sites based on compatible characteristics. SelectTree presently searches a database of 1,481 candidate species and provides 49 selection criteria to choose from.

Rutgers and University of Florida's **Northern Tree Selector**: this tool provides 50 selection criteria and searches 976 candidate species. It is for the northeast US, zones 2-7.

The University of Illinois Extension's **Selecting Trees for Your Home**: 9 selection criteria and 121 candidate species.

Utah State University's **Tree Browser**: browse 242 trees by 21 characteristics including growth,

Links

- VT Urban Forestry Gateway
- i-Tree: Urban Forestry Assessment Tools
- Virginia Geospatial Extension Program
- Virginia Urban Forest Council

Related Projects

- Urban Tree Canopy Analysis of Virginia Localities
- Municipal Urban Forest Assessments
 - Town of Abingdon
 - City of Charlottesville
 - City of Falls Church
 - City of Roanoke
 - City of Winchester

Contact Us
Eric Wiseman, Project Leader
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Blacksburg, VA 24061

TOUR OF STREET TREE ASSESSMENT WEBSITE

urbanforestry.frec.vt.edu/streets/assessyourtrees.html

Virginia Street Tree Assessment Project

An application of i-Tree Streets

- HOME
- LOCALITY REPORTS
- RESOURCES
- ASSESS YOUR TREES
- COLLABORATORS
- ABOUT US

Assess your Trees

On your own

Want to do a tree assessment in your own neighborhood or community? [Click here](#) to learn more about i-Tree, a free software tool.



Curious about the benefits that your tree provides? Try out the [National Tree Benefit Calculator](#).



Open Tree Map

[Open Tree Map](#) enables individuals, organizations, and governments to search and contribute to a collaborative, interactive, and dynamic map of a community's tree population.



Partner with us

Does your municipality have street tree data that you would like to contribute to this project?



Links

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TOUR OF STREET TREE ASSESSMENT WEBSITE

The screenshot shows a web browser window with the URL urbanforestry.frec.vt.edu/streets/collaborators.html. The website has a navigation bar with the following tabs: HOME, LOCALITY REPORTS, RESOURCES, ASSESS YOUR TREES, COLLABORATORS, and ABOUT US. The main content area is divided into three columns. The left column features three sections: **Virginia Tech**, **Virginia Department of Forestry**, and **Davey Tree Expert Company**. The middle column lists staff members under two sub-headers: **Principals** and **Field Technicians**. The right column contains **Links**, **Related Projects**, and **Contact Us** information. A disclaimer at the bottom right states that the project was funded by the Virginia Department of Forestry, Charlottesville, VA and the USDA Forest Service.

urbanforestry.frec.vt.edu/streets/collaborators.html

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HOME LOCALITY REPORTS RESOURCES ASSESS YOUR TREES COLLABORATORS ABOUT US

Virginia Tech

Principals

Eric Wiseman, Ph.D.– Project Leader

John McGee, Ph.D.– Co-Investigator

Jen McKee– GIS Technical Advisor

Sarah Gugercin–website and design

Post Doc

Julia Bartens

Graduate Students

Mason Patterson

Tyler Wright

Field Technicians

Andrew Benjamin

Jordan Endahl

Danielle Gift

Cindy Green

Jeannette Hoffman

Jamie King

Dustin Mays

John Pancake

John Peterson

Mike Webb

Virginia Department of Forestry

Chris Asaro, Ph.D.– Forest Health

Barbara White– Urban and Community Forestry

Davey Tree Expert Company

Al Zelaya– Davey Expert and Urban Forester

Scott Maco– Research Urban Forester

Links

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