

IMPORTANCE OF A COMMUNITY TREE PROGRAM:

A Guide to Starting and Sustaining a Street Tree Planting Program

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Street Trees





Why Do It?/Benefits



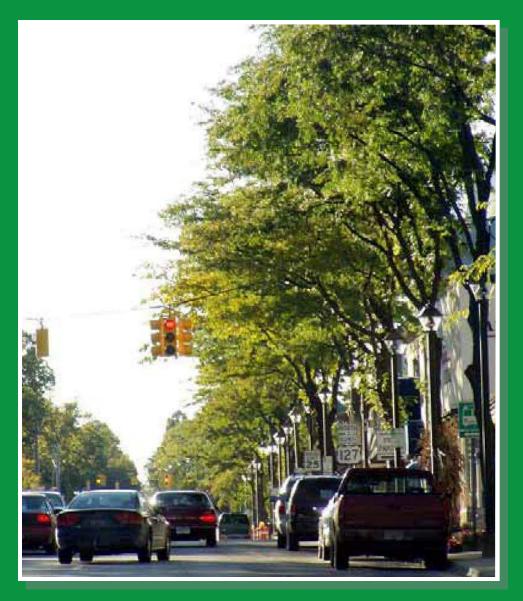
















Create Safer Walking Environments





Create Safer Walking Environments





Create Safer Walking Environments





Increased Neighborhood Security





Street Trees Improve Business





Street Trees Improve Business





Street Trees Improve Business





Storm drainage/improve water quality





provide rain, sun & skin protection





Reduce pollution



lower urban air temperatures significantly impact energy costs











Softens Street Features





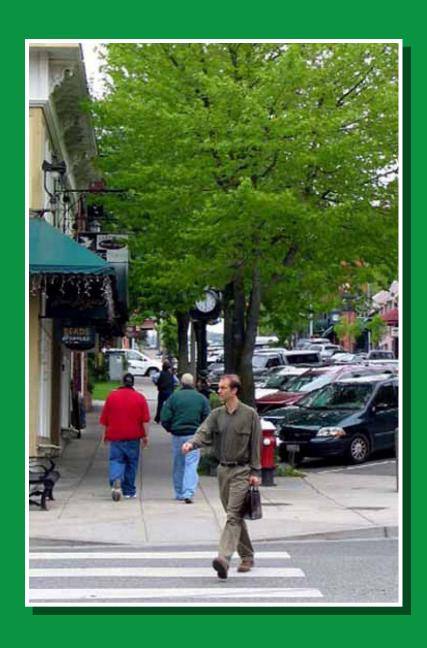
Increased Emotional Health





Increased Emotional Health





Connection to Nature





Increased property values





Increased property values





How To Do It? Watertown Case Study

How You Can Start and Grow a Tree Planting Program in

Your Community

Brief History ofWatertown's UrbanForest

- Decade of Disaster
- Tree Watertown



Our Partnerships and Success
 Stories

History of Watertown's Urban Forest

Tree planting &
 beautification has been a
 part of Watertown's
 culture since its founding.

In 1805, the early settlers of Watertown deeded an area of land in the center of Watertown for public use.

In 1853, Public Square was formalized with the creation of a park area in the center of the village.







• In the late 1890's, the City Beautiful Movement was introduced to cities all across America, including Watertown.

• During this time streets throughout the City were lined with trees, both within the City right of way and behind walks on private property.

 Watertown's Olmsted designed Thompson Park was built.

• These efforts created pleasant streets and avenues and a majestic tree canopy & urban forest in the first half of the twentieth century.



History of Watertown's Urban Forest





History of Watertown's Urban Forest

The Decline of the Urban Forest

- Dutch Elm Disease strikes
 Watertown in the 1950's and
 nearly all elms were lost,
 significantly depleting the
 city's tree canopy.
- By the 1970's and 1980's many of the maples were reaching or approaching maturity.
- Little effort existed in tree replacement.



The Decade of Disaster

The Unthinkable Happens...



The Decade of Disaster!



- June 18, 1990: Straight line winds. Damage concentrated on SW section of City.
- March 2-4, 1991: Ice Storm. Widespread damage.
- July 15, 1995: Microburst. Scattered damage.
- January 4-10, 1998: Ice Storm. Widespread damage.



The Decade of Disaster





- Step 1: Form a tree committee with municipal cooperation and support.
 - Tree Watertown formed in 1995 after the Microburst under the leadership of former Mayor Tom Walker and City resident Samuel Thomas.
 - A turning point and new beginning for the City.
 - Tree Watertown comprised of volunteers from various backgrounds.
 - Appointed as official Street Tree Advisory Board on December 18, 2000.



Tree Watertown



- Step 2: Establish credibility for tree board.
 - Start with a highly visible, signature project to create interest and excitement about trees.
 - Arbor Day Ceremony.
 - Spring or Fall Tree Planting.
 - Educational Program in Local School.
 - Combination of the Above.





- Initial Tree Watertown Project.
 - Washington Street TreePlanting Project Spring1996.
 - \$4,000 grant from the Northern New York Community Foundation for 21 trees.
 - Educational component involving elementary school children.
 - Credibility and RespectEarned in the Community.







- Step 3: Build Partnerships
 - You can't do it alone. Utilize a variety of funding sources and create different partnerships along the way.
 - City of Watertown
 - Watertown Noon Rotary Club
 - USDA Forest Service
 - National Grid
 - NNY Community Foundation
 - Watertown City School District
 - Girl Scouts
 - City Planning Board
 - NYS DEC



Partner: City of Watertown

- Advocated for funding in the City's budget. \$7,500 for trees in 1997
- Tree planting by DPW
- 90-100 bare root trees per year.
- Every year since 1997
- Planning Staff to manage project
- Small tree pruning every winter
- Tree work throughout the year



- Partner: WatertownNoon Rotary Club
 - Annual Tree Planting Started in 1976.
 - Formalized a partnership with the City starting in 1995 and with Tree Watertown in 1997.
 - Approximately 50 bare root trees per year.
 - City Planning Staff manages the project, DPW pre-digs the holes and Rotary volunteers plant the trees.







Partner: USDA Forest Service

- \$15,500 tree and planting space inventory in 1999
- \$180,997 grant for the development of a management plan, tree planting and maintenance program in 2000
 - 973 trees planted
- \$180,997 grant for tree planting in 2001
 - 1084 trees planted



South Pleasant Street - 2000



South Pleasant Street - 2013



Partner: National Grid

- 10,000 TREES... and Growing!Program
- \$50 per tree reimbursement for planting the "right tree in the right place" small maturing trees under primary power lines
- \$79,340 from 2000 2014







Partner: Northern New York Community Foundation – Carolyn Whitney Tree Planting Fund

- Carolyn Whitney was a City resident who passed away in 2007 and bequeathed \$100,000 to the foundation specifically for tree planting in the City.
- Interest from fund generates \$3,000-\$5,000 annually which is made available for trees.
- First planting was in the Fall of 2008 on Sherman Street (Ms. Whitney's neighborhood) and included the planting of 29 trees.
- 314 total trees planted since 2008 using this funding.



Carolyn Whitney Tree Planting Project Meadowbrook Playground

- Carolyn Whitney Tree Planting Project
 - Arbor Day 2009 at Sherman Elementary



Partner: Watertown City School District

- Partnership began in 2004 when Tree Watertown held its annual Fall Tree Planting Project at Sherman Street Elementary.
- 8 trees planted along the street using funding from Tree Watertown and the City of Watertown
- The Watertown City School District provided \$750 per year in funding from 2005-2010 for the planting of approximately 10 bare root trees per year.
- The City of Watertown assists with pre-digging the planting holes, similar to our Rotary tree planting project held in the spring.





Partner: Girl Scouts – NYPENN Pathways

Fall 2011 Tree Planting Project –
 Starbuck Elementary

Fall 2012 Project - 100 Trees, 100
 Girls Celebrating the 100th
 Anniversary of Girl Scouts - 287
 volunteer girl scouts, parents and
 Tree Watertown members.
 (593 volunteer hours)





Partner: City of Watertown Planning Board

- The Planning Board's former Chairman had a passion for improving the City's streetscape and advocated for tree plantings as part of site plan approvals.
- The approval process was streamlined with the development of Landscaping and Buffer Zone Guidelines in 2007 – Standard by which all site plan applications are now judged.

Appendix A Landscaping and Buffer Zone Guidelines Adopted by the City of Watertown Planning Board

August 7, 2007

Introduction

A landscape plan is required as part of every site plan review application. These guidelines are the minimum plantings that the Planning Board expects to see on the landscape plan regarding number, type, size, and arrangement of trees and shrubs.

Landscaping is required to minimize negative impacts from development by creating visual and noise buffers between adjoining property uses and promoting harmonious streetscapes. The intent of these guidelines is also to replace trees lost due to development and to stabilish incentives for the preservation of existinct trees.

These guidelines will also provide direction to the applicants where buffer zones are uired under Section 310-59 of the City of Watertown Zoning Ordinance.

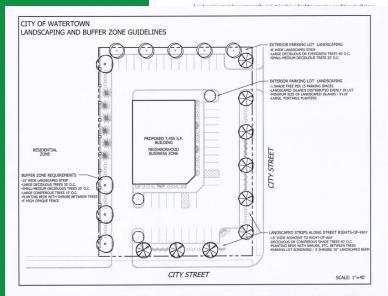
eneral Provisions

A tree schedule shall be included on each landscape plan. No one (1) species of tree may take up more than fifteen (15) percent of the total amount of the landscape plantings.

Where the location of existing overhead or underground utility lines conflicts with the required landscaping strip and tree planting, the Planning Board may approve an alternative plan to meet the intent of these guidelines.

It is recommended that trees from the list provided below be considered. Tree diameter shall be measured four feet from the base of the tree. The developer/owner should make every effort to preserve and protect existing significant trees over twelve (12) inches in diameter.

Tree removal or planting in the city right-of-way shall be in accordance with Chapter 28 of the Code of the City of Watertown.





Kinney Drugs – State Street



Walgreen's – Eastern Boulevard

Partner: NYS Department of Environmental Conservation

- Urban and Community Forestry Grant
 Program 6 grants through this program over the last 12 years. For tree planting, watering and maintenance projects.
- Invaluable partnership.
- NYSDEC not only a great partner for grants, but the ongoing support from Region 6 Senior Forester, Glen Roberts, has been key to our program.
 - Tree Watertown member
 - Tree inspections
 - Tree pruning workshops
 - Overall program assistance, etc.







- Step 4: Keep the Momentum Going.
 - Do more than just tree planting...
 - Tree pruning workshops.
 - Tree sales.
 - Involve local media.
 - Build more partnerships.
 - Educational events.
 - Tree HeritageProgram.
 - "About Trees"Preschool Program.







- Step 5: Commitment to Tree Program.
 - Arbor Day Events
 - 2014 marked our 17th annual observance.





Arbor Day Celebrations









- Commitment to Tree Program
 - Obtain Tree City USA Designation by meeting four standards:
 - Tree Board or Department
 - Tree Care Ordinance
 - Community Forestry Program with an Annual Budget of at Least \$2 Per Capita
 - Conduct an Arbor Day Observance

Watertown has been a Tree City USA every year since 2000.





- Commitment to Tree Program
 - Summer Watering & Maintenance Program
 - Take care of your newly planted trees
 - Water is the key to survival
 - Mulch



- Commitment to Tree Program
 - Tree Pruning Program Developed for DPW
 - Train small trees for proper form and structure
 - Avoid failure in the future
 - Winter pruning in between snow events
 - 750-1000 trees pruned annually







• Step 1: Form a Tree Committee with Municipal Cooperation and Support.

• Step 2: Establish Credibility for Tree Board.

• Step 3: Build Partnerships

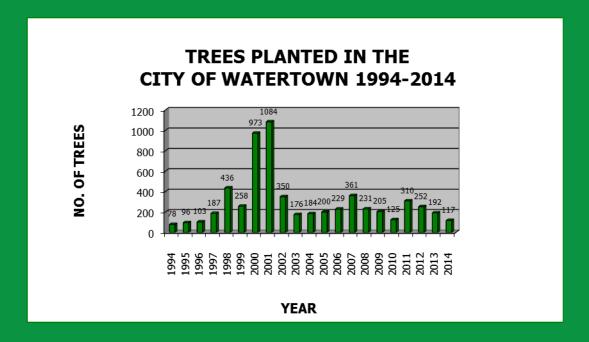
• Step 4: Keep the Momentum Going.

• Step 5: Commitment to Tree Program.



6,196

Trees planted in the City of Watertown from 1994 – 2014







The Details







Check List for developing a tree program

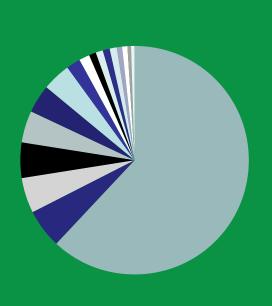
- Envision your community's future with trees.
- Or the DARK SIDE envision your community without trees!
- Set goals and priorities.
- Write a tree ordinance.
- Conduct an inventory and develop a management plan.
- Create a tree advocacy group.



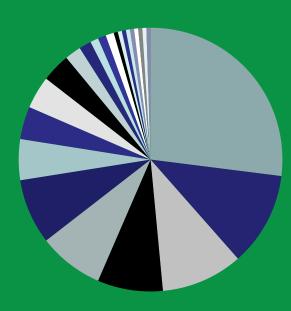
Inventory

- Health
- Size or age
- Diversity
- Maintenance Needs
- Planting Needs

City of Watertown Street Tree Composition 1999 to 2009



- Maple
- Ash
- Honeylocust
- Other Species
- Tree Lilac
- Crabapple
- ■Linden
- Spruce
- Corktree
- Birch
- **■** Coffeetree
- Elm
- Ornamental Pear
- Mountainash
- Oak
- Catalpa
- Cherry



- Maple
- Ash
- Tree Lilac
- Crabapple
- Linden
- Serviceberry
- Honeylocust
- Oak
- Ornamental Pear
- Other
- **■** Coffeetree
- Amur Maackia
- Corktree
- Hackberry
- ■Horsechestnut
- Catalpa
- Cherry
- **■**Elm



Biodiversity

- Variety of habitat, flowering, longevity
- More resilient
- Worst case scenario.
- All your trees will die!

Worcester, Mass.



Worcester, Mass.





Insects & diseases







Responsible Planting

- Should be in accordance to a need identified in the long range plan.
- Enhance diversity.
- Tree must match location.
- Many urban tree locations require a "small" tree.... Plant a "large" tree when possible.
- Long range objective: safe, healthy, pleasing, functional.



Tree Planting

- Selecting high-quality nursery trees
- Handling, transporting and storing nursery trees
- Plant properly
- Post-planting maintenance

Spring vs. Fall planting





Common causes of Death to Trees

Planting:

- Planting too deep
- Under watering



Strategies to reduce costs

- Plant bare root trees
- Use trained volunteers
- Follow up care
- Prune early
- Match tree to site





Appropriate Tree Species Lists

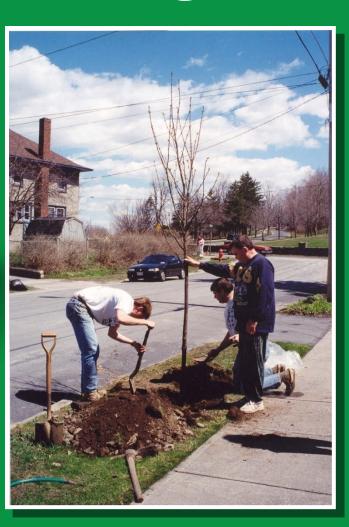


Cornell University Woody Plants Data Base

http://woodyplants.cals.cornell.edu

Planting AND Maintenance





Good planting practice

- •Watering
- •Mulching
- •Leave stakes on for one year
- •Protect from injury



Common causes of Death to Trees

Leading cause of death for tree in the community

- Salt (roadside trees)
- Injury to roots
- Injury to the crown
- No watering





Hazard Trees





Hazard Trees

Considerations

- When a tree is a hazard to the public who is responsible for the safety of the public. Who has ownership?
- Is it DOT, county, home owner, village?
- Who is going to evaluate the tree?
- Is the process covered in the ordinance? Or what is the process for removal



Grant Funding Available

- NYSDEC,
- NNY Community Foundation,
- National Grid (10,000 Trees Reimbursement Program)
- Municipal Budgets
- Capital fund
- New construction
- Possible cost-share with home owners
- Memorial
- Grants trusts
- Sponsor Tree Sales



More Grants

- Local Business Associations
- Clubs Civic groups
- NYS Urban and Community Forestry Grant, provided through the states Environmental Protection Fund.
- Forest Service Grant: Northeastern Area State & Private Forestry Great Lakes Restoration Initiative.
- SWAT Cornell Crew (student weekend arborists team)
- Storm water run-off grants. Parking lots with water catchment, tree islands



Where to get help?

- NYS DEC
- Region 6 Glen Roberts, Mike Marsh,
 Steve Sherwood, Mike Giocondo, Andrew
 Drake
- Cornell Cooperative Extension:
- Sue Gwise
- Paul Hetzler







The best time to plant a tree was twenty years ago.

The second best time, is today.