Massachusetts Urban & Community Forestry Program

The Citizen Forester

JANUARY 2014

The State of Our Urban Forests

By **Rick Harper**

Background: Citizens in the Northeast enjoy larger, more forest-covered tracts of land in the present-day 21st century than we did 100 years ago! The reasons behind this may be numerous, but one important factor is that we have shifted away from a predominantly agrarian/local resource-based economy to a more urban/suburban way of life, where many of our goods (and services) come from other parts of the country and, indeed, other parts of the world. Additionally, our communities themselves have become more forested over the last century. The city of Oakland, CA only featured 2% canopy cover in 1850, but today large cities like Boston and New York enjoy in the vicinity of 30% or more urban tree canopy cover!

A recent U.S. Forest Service study (Nowak & Greenfield, 2012) has some very sobering things to say about the state of our urban forests, however. In looking at 20 cities across the U.S., this study indicates that tree cover in our urban areas is actually declining at a rate of almost 20,000 acres (approximately 7900 ha) per year. On a per-tree basis, that equates to about four million trees being lost every 12 months!

Up Ahead:

Tree cover in 17 of the 20 cities analyzed in the study declined, while 16 cities saw significant increases in impervious (i.e., paved areas, rooftops) cover. This news is troubling on a number of fronts, since the health of our urban forests and community green spaces can often be linked to the health of our communities' economy and can even impact the health of our citizens living there! Additionally, our understanding relative to the overall benefits of trees has increased significantly in recent years: we now know that urban trees provide a return as much as three times greater than the costs associated with establishing and maintaining them (i.e., as much as $2,500 in environmental services including carbon sequestration and reduced heating and cooling costs) over the lifespan of an average city tree.

Life with Trees: In addition to our urban areas being more forested, more people now actually live in these urban settings. In 2011 it was determined that about 80% of the U.S. population lives in or immediately around an urban area; a century ago it was less than 5%! As with any situation, there are of course benefits and perils that come with this lifestyle where large numbers of us "live with the trees." Larger trees for example, can present a threat to property – and even life – especially during a high-wind or storm event, as they may even be more prone to losing limbs or even complete structural failure (i.e., falling over). Second, we know that with every new and exciting tree planting event comes the responsibility to perform follow-up inspections and maintenance.

Increased Competition: Finally, when a tree is established, it is important to remember that even with routine maintenance, the journey may not be an easy one. According to Nowak and Greenfield, important factors like invasive insects and competition for useable space (both useable soil below ground and space to grow above ground) may ultimately dictate – at least in-part – the survival rates of our urban trees.

For more information on urban trees and their benefits visit: www.itreetools.org

To learn more about the U.S. Forest Service study titled "Trees & Impervious Cover Change in U.S. Cities" by D.J. Nowak and E.J. Greenfield, visit: http://www.fs.fed.us/news/2012/releases/02/urban-forests.shtml

Rick Harper serves as Extension Assistant Professor of Urban & Community Forestry, UMass Department of Environmental Conservation, Amherst, and is also an ISA Board-Certified Master Arborist.

2014 Massachusetts Arbor Day Poster Contest

TREES ARE TERRIFIC AND GOOD FOR OUR HEALTH!

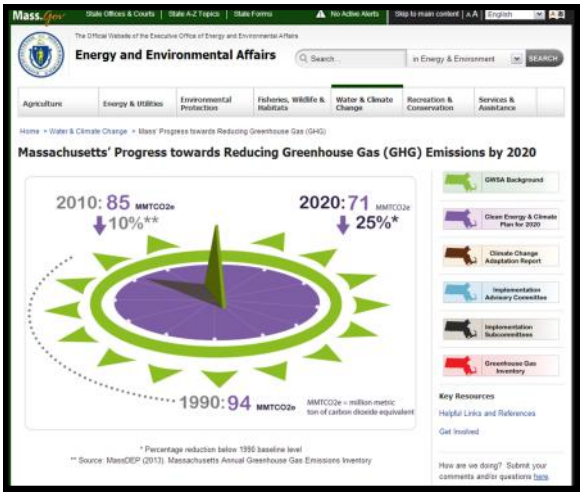
Each year, over 1500 Massachusetts fifth graders participate in the Arbor Day Poster Contest. The winners reap rewards, including art supplies, ice cream, and a tree for their school. Each year there is a theme, such as "Trees are Terrific…from acorn to oak!" (2003) or "Trees are Terrific....In Cities and Towns!" (2009), selected to encourage students to think about trees in new ways.

The 2014 theme, ***Tress are Good for Our Health*** is designed to increase students' understanding of trees and the role trees play in their community and the impact of trees on health and well-being.
The deadline for this year's entries is April 18, 2014.

Download - Poster Contest Rules and Information Packet

Patrick Administration Launches New, Innovative Website to Communicate Global Warming Initiatives and Progress

BOSTON – Tuesday, December 3, 2013 – The Massachusetts Executive Office of Energy and Environmental Affairs (EEA) today launched a new dashboard for Global Warming Solutions Act (GWSA) initiatives. "The new dashboard will communicate the Commonwealth's progress towards reducing our greenhouse gas (GHG) emissions and help us shape future GHG reduction policies," said EEA Secretary Rick Sullivan. "It's also a great tool to engage the citizens of the Commonwealth so they can monitor, measure and contribute to our work toward meeting our GWSA goals for 2020 and beyond."



The dashboard aims to be a user-friendly and engaging website that utilizes cutting-edge graphics and case studies to present data and enhance public awareness on the status of GWSA implementation. The system is one of the first of its kind nationwide, and is expected to serve as a regional and national model that other states can adopt to analyze their efforts in reducing GHG emissions.

Governor Patrick signed the GWSA into law in 2008, which established the most ambitious, economy-wide greenhouse gas emission limits for any single state in the country:

- 25 percent below statewide 1990 GHG emission levels by 2020.
- At least 80 percent below statewide 1990 GHG emission levels by 2050.

Explore the dashboard by clicking here: http://www.mass.gov/eea/air-water-climate-change/climate-change/massachusetts-global-warming-solutions-act/

Species Spotlight—White fir, *Abies concolor*

By **Mollie Freilicher**
MA-DCR
Community Action Forester

Though native to the mountain west, white fir can be found in parks and yards throughout Massachusetts and for urban-hardy conifers, it is tough to beat. Where it is native, white fir can reach heights exceeding 100 feet, but in urban areas in the East, it does not grow so tall. It can grow to heights of 30 to 50 feet with a narrow spread, ranging from 15 to 30 feet. Here in Massachusetts, white fir is within its hardiness limit of USDA Zone 3. The form of white fir is symmetrical and pyramidal when young, maintaining a roughly pyramidal, dense form into maturity. The growth rate is typically slow.

The leaves are silvery blue-green needles, 1.5 – 2.5 inches long, that curve upward like ribs (think of a mammal's ribcage or wooden ribs of a boat). Two white bands may be present on either side of the needle. Twigs are orange-tinged at first, turning dark-green and gray as they mature. The bark of white fir is smooth and gray, with some resin pockets on young trees. Bark becomes furrowed and platy as the tree ages. Flowers are monoecious with yellow, catkin-like male flowers and inconspicuous yellow-brown female flowers. The fruit is a stalked cone, three to six inches long, that turns from pale green to brown as it matures, eventually falling off the tree and shattering to disperse seeds.

White fir is a tough conifer for urban environments, tolerating heat, drought, and cold. It transplants well and does best in rich, well-drained soil, but is adaptable, as long as it is not planted in heavy clay soils. White fir makes a great specimen tree, but young trees should be protected from deer in areas where browsing may be a problem. Relatively free of disease and insect problems, white fir is likely to establish well in urban areas and function as a valuable member of the urban forest.

Photos: Form: UConn Plant Database; Leaves, flowers, bark, and fruit: Virginia Tech.

Growing on Trees

Oregon State University to Offer Online Urban Forestry Courses During Winter Quarter

Oregon State University (OSU) will offer two online urban forestry courses during Winter Quarter 2014 (January 6 – March 21, 2014). FES/HORT 350 *Urban Forestry* is an introductory undergraduate course the covers a wide range of urban forestry concepts and topics and is suitable for anyone wanting a comprehensive understanding of the urban forestry discipline. FES/HORT 455/555 *Urban Forest Planning Policy and Management* is an upper-level undergraduate/graduate course that offers a detailed look at the complex challenges faced by urban forestry professionals. Participants enrolling in FES/HORT 455/555 should have urban forestry work experience, or have completed the FES/HORT 350 class as a prerequisite. Both courses are available as part of online degrees, or as stand-alone courses available for professional development.

OSU will also offer FES/HORT 447/547 Arboriculture as an online course during Spring Quarter 2014 (March 31 – June 13, 2014). This course is suitable preparation for individuals interested in taking the ISA-Certified Arborist Exam.

OSU also offers a new online Bachelor of Science in Natural Resources – Urban Forest Landscapes option. Information about this option may be found at http://catalog.oregonstate.edu/OptionDetail.aspx?id=959

For additional information, visit Ecampus at: http://ecampus.oregonstate.edu/

We do our best to ensure that listings are accurate, but please check with program organizers for the most up-to-date information.

Health Benefits of Nature Resource Guide

A growing body of research proves what we all know to be true—nature is good for us. A new online guide launched by the American Society of Landscape Architects (ASLA) showcases the long- and short-term mental and physical health benefits of spending time outside. "We created this guide to expand public awareness about the benefits of green spaces, as well as to urge people to get out and take advantage of the designed and natural landscapes available to them," said Nancy Somerville, Hon. ASLA, CEO of ASLA. "This online resource fully documents the benefits of interacting with nature."

The guide, part of ASLA's series of sustainable design resource guides and toolkits, includes hundreds of free research studies by leading scientists, news articles, and case studies of parks and other designed green spaces. Resources, which have been reviewed by expert advisers, are organized into 23 health issues that affect adults and children, including asthma, depression, chronic stress, obesity, and autism spectrum disorders. Each issue is organized by a description of the health problem, of how nature helps, and of the role of landscape architects in solving the problem.

Explore the Guide:
http://www.asla.org/healthbenefitsofnature.aspx

Video: Investing From the Ground Up: Community Tree Success

http://www.youtube.com/watch?v=97dNssC3E3A

This video takes viewers across California and showcases the stories of everyday people who share, in their own words, how trees improve their lives, communities, and economic well-being. It is a great video for improving the public's knowledge and understanding of the importance of trees in their community.

Learn more at Invest from the Ground Up.

Growing on Trees

New Study Reveals Promise and Peril of Land-Use Decisions

Changes to the Land: Four Scenarios for the Future of the Massachusetts Landscape, a recently-released, ground-breaking report by Harvard University's Harvard Forest and the Smithsonian Institution, reveals that, if left unchecked, recent development trends will undermine significant land conservation gains in Massachusetts, jeopardize water quality, and limit the natural landscape's ability to protect against climate change. The report is based on a study that used sophisticated computer models to conduct a detailed, acre-by-acre analysis of four different land-use scenarios for the entire forested landscape of Massachusetts. The good news is that the research shows alternatives exist for protecting and enhancing vital forest benefits for people and nature. Click here to download the report and for related info.

Download the full report.

Browse the press release, photos, executive summary, and related events.

Wind Wood Utilization Website

http://www.windwoodutilization.org/

While not specifically for urban forestry, the Wind Wood Utilization site is the hub for information specifically relating to the preparation for, response to, and recovery from, major wind events, and the utilization of downed and damaged timber and woody debris that can be generated.

- The website features quick links to a variety of resources: Service provider contact information for loggers, foresters, and trucking contractors
- Market information for local, regional, national, and global buyers of timber products and biomass
- Information on the basic governmental processes involved in disaster planning, declaration, and response and recovery, with specific emphasis on the processes effecting disaster debris management and cleanup and timber salvage
- Information on locating supplies, fuel, equipment dealers, lodging, medical services, and other items necessary to conduct business for foresters and loggers
- Lessons learned and knowledge gained from experiences with past wind events by various stakeholders including, landowners, foresters, local and state governments, federal agencies, and others.

This website is a project of the Woody Biomass Utilization Group, an inter-agency working group, and was created by the Mississippi State University Department of Forestry. It is supported by Mississippi State University's Sustainable Energy Research Center, with funding from the United States Department of Energy.

Non-Profits Invited to Apply to Azavea 'Summer of Maps' to Receive Pro Bono Spatial Analysis

December 18, 2013—Azavea, an award-winning geospatial analysis (GIS) software development company, invites non-profits nationwide to submit an application to be considered for its third Summer of Maps. Azavea Summer of Maps is a program that offers $5,000 stipends to student GIS analysts to perform pro bono geospatial data analysis projects for non-profit organizations over a three-month period in the summer of 2014. The application process is organized into two phases. The first phase, organization applications, is currently open, and organizations have until February 9 to submit their application at http://www.summerofmaps.com.

Growing on Trees

Practical Application of Tree Filter Systems

By **Paul Iorio**, StormTree LLC

Tree filter with attached catch basin (left) or curb inlet (right).

Many of us are familiar with rain gardens, a bioretention stormwater practice that incorporates primarily shrubs and herbaceous perennials within a prepared bed or constructed low-lying swale or basin. Rain gardens typically require a surface "footprint" of greater than 100 square feet to provide effective collection and treatment of stormwater runoff emanating from a catchment area of greater than 1,000 square feet. Tree filter systems are unique in that much of the collection and treatment practice occurs beneath the surface allowing for a smaller surface footprint. The actual collection or entry point is typically a concrete structure with a catch basin or gutter opening integrated with the street curbing.

Tree filter systems rely on physical, biological, and chemical remediation functions such as surface sediment containment, soil microbiological breakdown, and chemical transformation processes. These processes act in concert to treat and "cleanse" stormwater contaminated with pollutants such as oil/grease, phosphorous, nitrogen, bacteria, and heavy metals, prior to subsurface infiltration to groundwater and/or the aquifer. Fortunately, trees and plant systems in general have the ability to partition, assimilate, and/or process the low level concentrations of contaminants found in the typical stormwater drain. It would be simplistic to suggest that contaminated stormwater is the chemical equivalent of fertilizer to a tree; however, many of the soluble (and insoluble) contaminants in stormwater are listed ingredients on the back of bags of tree/shrub fertilizer. […]

In the summer of 2013, StormTree LLC was contracted to provide tree filter systems for a parking lot reconstruction project at the offices of the Massachusetts Department of Transportation (Mass DOT) on Kneeland Street in Boston, MA. Working in conjunction with the BSC Group, a Boston based engineering firm, two tree filter systems were designed to be the primary stormwater management control for the Newly constructed parking lot. The R. Zoppo Corporation, Stoughton, MA, provided the excavation and installation services. The parking lot layout included an approximately 150' (long) by 11' (wide) island that separated the parking lot into two sections. A six foot wide concrete sidewalk extended the length of the island; the remaining five foot wide portion was a landscape corridor.

Learn about how these filter systems were installed in Boston and read the complete article in the Ecological Landscaping Association Newsletter.

From the Archive: From the Wood Education and Resource Center

Small Sawmill Workshop

This workshop (*October 24, 2013*) focused on small sawmills and lumber-drying operations that use gas engines, diesel engines, and single-phase electric power. To view workshop handouts and photos, **click here.**

Profitably Drying Small Quantities of Lumber Workshop

This workshop (*September 25-26, 2013*) demonstrated the use of a 900-board-foot conventional steam dry kiln using sample boards to monitor the drying process. Attendees learned how dry kilns work and how they can add profitability to a sawmill and/or wood processing operation. To view workshop handouts and photos, **click here.**

To check out the Wood Education Resource Center website, click here: http://www.na.fs.fed.us/werc.

Growing on Trees

Scholarship Opportunity

GCA Fellowship in Urban Forestry

Through generous donations from its members and Casey Trees in Washington, D.C., the Garden Club of America offers a fellowship in urban forestry for qualified U.S. students.

The Garden Club of America strives to stimulate the knowledge and love of gardening, to share the advantages of association by means of educational meetings, conferences, correspondence, and publications, and to restore, improve, and protect the quality of the environment through educational programs and action in the fields of conservation and civic improvement.

Eligibility: Must be a graduate or advanced undergraduate student studying urban forestry, environmental studies, horticulture, forestry, or related courses of study with a special interest in the urban forest. An award of $4,000 is provided, and a recipient may reapply for an additional year. Students must be enrolled during the academic year following the award decision.

Purpose and Focus: With this fellowship, the Garden Club of America seeks to forward their goal of advancing our knowledge of urban forests and increasing the number of scientists in the field of urban forestry. The Garden Club of America has a history of interest in the health of the urban forest and would like to support young scientists in their undergraduate and graduate studies in this field.

Application Process: Applicants should complete **EITHER** the undergraduate or graduate electronic application form. A letter of recommendation is welcome; however, all applications must include an Academic Advisor Recommendation form completed and signed by the student's faculty advisor and mailed to:
GCA Fellowship in Urban Forestry
c/o Virginia Tech Urban Forestry
310 Cheatham Hall
Blacksburg, VA 24061 -0324

Application Deadline: January 31. (The application is complete when both the online application and printed advisor recommendation form are received). Final award decisions are made in late March. Fellowship recipients will receive official notification of their award from the Garden Club of America.

More information: http://urbanforestry.frec.vt.edu/scholarship/

From the Ecological Landscaping Association

Managing Large-Scale Landscapes

January 16, 2014, 8:30 a.m. - 4:30 p.m.
Wellesley, MA
If you are interested in sustainable landscapes for colleges, parks departments, public agencies, cemeteries, golf courses, forests, land trusts, public gardens, or other large landscapes, this event is for you. Join ELA and Wellesley College for a symposium on maintaining large-scale landscapes that utilize fewer inputs, are designed and maintained with the environment in mind, and become more sustainable over time. Experts who work daily in successful, sustainable large-scale landscapes will lead four panel discussions.
Learn more! Register online today!

20th Annual ELA Conference & Eco-Marketplace

February 26-27, 2014
Springfield, MA

Join friends, colleagues, and the ecological community for two full days of education and networking.

February 26 features two intensive workshops:

- **Managing Tree Health**
- **Soil: the Base Layer of Ecological Health**

February 26 Keynote Presentation:

- **Dr. John Todd**, John Todd Ecological Design

The February 27 schedule features presentations, panel discussions, and a hands-on green roof workshop. Throughout the ELA Conference, the Eco-Marketplace showcases ecological products and services.

Download ELA Conference Brochure for details!

Register early for discounts!

Growing on Trees

Online Mapping Tools for the Natural Resource Professional - Google Earth Part 1 and 2 (Basic and Intermediate Webinars)

Sponsored by: North Carolina State University Extension Forestry, Southern Region Extension Forestry, Texas A&M Agrilife Extension.

Webinar 1: Online mapping tools for the natural resource professional - Part 3: Google Earth (GE) Part 1 (Basics)

Webinar 2: Online mapping tools for the natural resource professional - Part 4: Google Earth (GE) Part 2 (Intermediate)

What will you learn? This mapping tool is a must for all natural resource professionals. It is one of the best ways to develop and share map data with landowners, as it allows visualization at the landscape level. You can create, save, and share project datasets freely, view historic aerial images, and add GPS, photos, and even your own aerial images. This section covers basic information about GE navigation, exploratory tools, searches, layers, and data creation in My Places. Data creation will consist of development of project folders and creation of points (placemarks), lines (pathways), and polygons. Importing GPS data will be introduced. Editing spatial data and descriptive information and saving and sharing data files will be covered. Part 4 will review GE basics and then extends to details about creating and editing data.

Who should participate? Foresters, Natural Resource Professionals, Land Managers, Conservationists, Wildlife Biologists

Session Details:

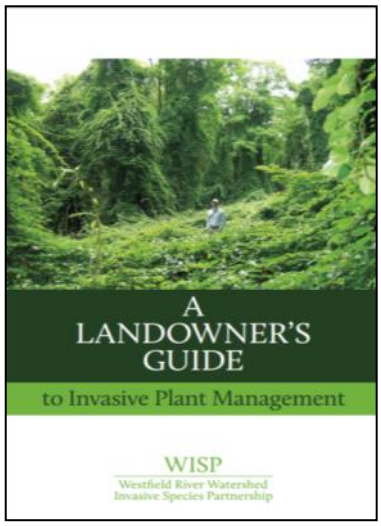
Webinar 1: Google Earth Basics, Jan 15, 2014 12:00 pm US/Eastern, Duration: 01:00 (hh:mm)

Webinar 2: Google Earth Intermediate, Jan 22, 2014 12:00 pm US/Eastern, Duration: 01:00 (hh:mm)

****** Please join the session 15 minutes prior to the start of the webinar. ******

Register and learn more at: http://www.forestrywebinars.net/upcoming-webinars-1

A Landowner's Guide to Invasive Plant Management



This booklet provides up-to-date information on managing invasive plants in Massachusetts and provides methods and strategies suitable for private and public landowners. Learn about the impact of invasive plants and the mechanical, chemical, and other methods for controlling them. Also included is a list of resources for additional information on identification, reporting, and control.

Download the publication at: http://www.thetrustees.org/assets/documents/what-we-care-about/WISP_Invasives_Management.pdf

Upcoming Conferences

Check the calendar for lots of upcoming educational opportunities in Massachusetts

News

Orange Hopes to Launch 'Firewood Bank'

By Linda Enerson

(December 13, 2013) Orange — Town officials are partnering with the state Department of Conservation and Recreation in hopes of launching the first "firewood bank" in Massachusetts. A firewood bank works somewhat like a fuel-assistance program, providing winter fuel for residents with wood-burning stoves. Income-eligible residents who cannot afford fuel for the winter are able to take wood for free. Town Economic Development Director Kevin Kennedy said that he and a representative from DCR identified a small piece of town-owned land beside the Armory that would be an ideal site for the project. The lot is directly across the street from the Food Pantry. Residents who are eligible for the wood will need to be on some kind of assistance, such as food stamps or WIC, and can access the wood-bank after picking up food at the pantry. Kennedy said that other states have wood banks, but he knows of no towns yet in Massachusetts that have initiated such a program. Read the complete story at the *Greenfield Recorder*. Read more about wood banks in the July 2012 *Citizen Forester*.

New Life for Old Trees in Stoughton, WI

One of the newest park benches in the city is more than just a place to sit – it's a piece of art that commemorates the former mayor who helped start the city's growing urban forestry program.

Near the edge of Norse park, a single park bench sits near a tree honoring former Mayor Helen Johnson. The bench, made of reclaimed wood that might have otherwise ended up as mulch or in the city yard waste site, is just one example of how the city is taking a lead role in recycling dead and dying trees and using the material to make functional pieces for the city. The program continues to grow as the city looks to expand its partnerships with businesses and other groups in the community – including for the construction of a solar kiln to dry out the lumber. Read the full story at ConnectStoughton.com.

Emerald Ash Borer May Have Met Its Match

December 18, 2013 — Woodpeckers find emerald ash borers a handy food source and may slow the spread of this noxious pest, even ultimately controlling it, suggest researchers from the University of Illinois at Chicago. Their findings are published online in the journal *Forest Ecology and Management. Read the full story at* Science Daily.

Mutated White Pine Rust Threatens Northeast Trees

By Krishna Ramanujan, Cornell Chronicle (NY),

A white pine-decimating fungus has mutated, allowing it to infect immune and resistant plants, which is alarming researchers, growers, loggers, and forest managers. White pine blister rust (WPBR) infects white pines and *Ribes*, a plant genus that include gooseberries and currants. Some states, such as Maine, prohibit planting *Ribes* to protect valuable Northeast pines, yet New Hampshire, Connecticut, New York, and Massachusetts, among others, have developed currant and gooseberry fruit industries in the last decades using WPBR immune varieties. Cornell and University of Connecticut researchers have identified WPBR-immune currant cultivars infected with the disease in Connecticut in the last few years, and more recently in New Hampshire. In areas where commercial currants have been infected, nearby white pines also have the disease. "The prevalence is not well understood, we only found it in New Hampshire because we were looking for it," said Kerik Cox, associate professor of plant pathology and plant-microbe biology, of the mutated WVBR. "If we started looking elsewhere, we might be surprised. It could really damage the white pine industry in five to ten years," he added. Read more at *The Cornell Chronicle*.

Urban Foraging: An "Intimate Connection" With Nature in the City

What are the benefits of foraging in an urban forest? Researchers in Seattle have found some answers, several of which position urban gathering as a way people are connecting with nature in cities today. Melissa R. Poe and her fellow researchers have compiled over two years of ethnographic research findings as a case study in a larger comparative city project, interviewing nearly 60 self-identified gatherers in Seattle's urban forests. The research team also conducted extensive field observations, identifying additional gatherers and discovering further insights into the process and benefits derived from foraging in urban forests. Read the full article here or read the original research article published in *Human Ecology* here.

On the Horizon

Dec 31 **Deadline: Tree City USA, Tree Line USA, Tree Campus USA Applications Questions on Tree City, Tree Line, or Tree Campus Questions? Contact Mollie Freilicher**

Jan 14-15 Mass Tree Wardens 101st Annual Conference, Sturbridge, MA, www.masstreewardens.org

Jan 16 CTPA Winter Conference, Aqua Turf, Farmington, CT, www.ctpa.org

Feb 5-7 New England Grows, Boston, MA, www.newenglandgrows.org

Feb 23-28 Municipal Forestry Institute, Society of Municipal Arborists, Nebraska City, NE, www.urban-forestry.com

Feb 26-27 20th Annual Ecological Landscaping Association Conference and Eco-Marketplace, www.ecolandscaping.org

Feb 27-Mar1 COURSE FULL: Tree Risk Assessment Qualification Course, NEC-ISA, Portland, ME

Mar 3-5 COURSE FULL: Tree Risk Assessment Qualification Course, NEC-ISA, Portland, ME

Mar 5 Massachusetts Environmental Education Society Annual Conference, Worcester, MA http://massmees.wordpress.com/annual-conference/

Mar 11 UMass Community Tree Conference, Amherst, MA

Mar 14-16 Splicing Workshop, New England Chapter-ISA, Weare, NH, www.newenglandisa.org

Mar 25 MAA Safety Saves, Massachusetts Arborists Association, Wellesley, MA, www.massarbor.org

Mar 25 MAA Dinner Meeting, Massachusetts Arborists Association, Framingham, MA, www.massarbor.org

April 1 **Deadline**: Intent to Apply: Urban and Community Forestry Challenge Grants

April 1 Tree Planting Professional Development Series, MTWFA, Sturbridge, MA www.masstreewardens.org

April 4 MCA Exam, Massachusetts Arborist Association, Wellesley, MA, www.massarbor.org

April 24-25 Conference: Designing for Success: Ecological Restoration in Times of Change; Amherst, MA

May 1 **Deadline for Applications**: Urban and Community Forestry Challenge Grants

May 30 New England Chapter-ISA Tree Climbing Championship, Burlington, VT www.newenglandisa.org

For information on how the DCR Urban and Community Forestry Program can work with your community, contact Mollie Freilicher

Bureau of Forestry
Department of Conservation and Recreation
251 Causeway Street, Suite 900
Boston, MA 02114

Mollie Freilicher, Community Action Forester
mollie.freilicher@state.ma.us, (413) 577-2966

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If you have a topic you'd like to see covered or want to submit an item to *The Citizen Forester* (article, photo, event listing, etc.), please contact Mollie Freilicher or click here.

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