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USDA Forest Service  
Northeastern Area, State and Private Forestry

# Urban Projects

From the Morgantown Field Office  
Serving the Mid-Atlantic States

## Asian Longhorned Beetle: Found in Worcester, MA

The Asian longhorned beetle (ALB) was discovered in Worcester, MA. The USDA Animal and Plant Health Inspection Service (APHIS) confirmed the finding in early August after an alert citizen from the Greendale section of Worcester reported finding an unusual beetle in a maple tree. This is the first detection of this invasive pest in Massachusetts.

The Massachusetts Department of Conservation and Recreation, Department of Agricultural Resources, and the city of Worcester are partnering with the U.S. Forest Service and USDA APHIS Plant Protection and Quarantine to coordinate a management plan to control ALB in Massachusetts. First steps include a survey of the area to determine the extent of the infestation and prevent its movement. Infested trees will be destroyed, and susceptible host trees may need treatment to prevent further infestations.

Inspection crews are surveying portions of Worcester and the neighboring towns of Boylston, West Boylston, Holden, and Shrewsbury. Crews and Forest Service smoke jumpers are inspecting ALB host tree species for signs of the beetle using

groundwork, specially trained tree climbers, and bucket trucks. As of October 31, 2008, crews have found 2,500 beetle-infested trees in the Worcester area. New York State will provide Massachusetts with professionals knowledgeable about tree identification, the target pest, and landowner interactions.

APHIS and State officials immediately quarantined the infested area to stop the spread of the beetle. Currently, the quarantined area is 62 square miles, and the interstate and intrastate movement of ALB host material is restricted.

Signs of an ALB infestation include adult beetles themselves during the summer and until frost, the perfectly round exit holes (about  $\frac{3}{8}$  to  $\frac{1}{2}$  inch in diameter) made by adult beetles when they emerge from trees, pockmarks on tree trunks and branches where females deposited eggs, frass (wood shavings and sawdust) produced by larvae feeding and tunneling, early fall coloration of leaves or dead branches, and running sap produced by the tree at egg laying sites or in response to larval tunneling.

To report signs or symptoms of ALB, call the Massachusetts ALB program at (508) 799-8330. For more information about ALB, visit <http://www.na.fs.fed.us/fhp/index.shtm>. ♦

# News from the USDA Forest Service

## Tree Inventory and Pest Detection in the Northeastern Area

The Forest Health Protection (FHP) and Urban and Community Forestry (UCF) Programs of the Northeastern Area are developing a tree inventory and pest detection effort that will provide new tools for the early detection of invasive pests in the urban forest and enhance the use of local tree inventory information to assess the risk of invasive pests and determine the appropriate management response.

Specific elements of this effort include:

- Finalizing development of the IPED pest detection module within the i-Tree software suite (<http://www.itreetools.org>);
- Collaborating with the National Plant Diagnostics Network (NPDN) so that both NPDN and Forest Service tools (such as the i-Tree software) are fully utilized through both organizations' efforts;
- Developing a data repository platform to consolidate and summarize local tree inventory information beyond the local level;
- Working with both State Forestry and Cooperative Extension staff to expand citizen monitoring and increase the use of i-Tree tools and the local inventory repository in citizen monitoring efforts.

Jessica Call has been brought on as a 1-year detailer to provide overall project leadership, oversight, and facilitation. For further information about the NA effort, please contact Jessica Call at 202-205-1056 or send an e-mail to [jessicacall@fs.fed.us](mailto:jessicacall@fs.fed.us).

## New Urban Forest Emergency Response Training Planned

Because trees provide important social, economic, and environmental benefits to residents in urban areas, dealing with downed and damaged trees quickly and providing critical information for response and recovery are important public issues. As evidenced by recent events, damaged trees left in the wake of natural disasters impact community resources, residents, budgets, and infrastructure. Local agencies sometimes find it difficult to respond to such incidents, and may not have the time or expertise to efficiently make tree damage assessments needed for response work. Getting that critical information quickly is the objective of an Urban Forest Emergency Response project underway in the Northeastern Area.

A methodology developed by Dudley Hartel and Eric Kuehler of the U.S. Forest Service Southern Region's Urban Forestry South Office will be used as a model. Urban forestry, fire, and other staff members of the U.S. Forest Service will work with State agency personnel and Massachusetts tree wardens to jointly develop the program in NA. Qualified foresters and arborists will be recruited and trained to assess damaged urban trees, estimate the tree debris to be removed, and evaluate the restoration work needed within the community.



The Urban Forestry South Office conducted a workshop about the process the week of July 15 in Virginia, which was attended by John Parry (DFO), Katie Armstrong (NFS), Henry Poole (Delaware Forest Service), Kate Forrer (University of Vermont Cooperative Extension), and Melissa LeVangie (Massachusetts Tree Wardens). Durham Field Office Group Leader Rob Clark has spearheaded the initiative. The training for the Northeastern Area is planned for early 2009 and, if successful, may be expanded in the future. *(Adapted from an article from FS News Notes Summer Issue)*

## Forest Service Hosts Green Infrastructure Concepts in Urbanizing Landscapes

This past July, the U.S. Forest Service offered a seminar on "Green Infrastructure Concepts at Work in Urbanizing Landscapes." The seminar, which was held in the Sidney Yates Building of the Forest Service Washington Office, hosted three presenters who provided inspiration on how we might begin to restore ecosystem function in urban landscapes and show local governments methods they can use to implement green infrastructure, including using indicators and measures to monitor and improve efforts.

The first speaker, Andy Lipkis of TreePeople in L.A., is a leader in developing innovative funding strategies and technologies for stormwater management and urban forestry. Andy is currently working on gathering support from local public works and other government agencies for a \$200 million project to restore a functioning urban forest landscape using a watershed approach in Los Angeles. Maureen Hart, President of Sustainable Measures in Hartford, CT, and Don Outen, Natural Resources Manager for Baltimore County, MD, presented “Measuring Green Infrastructure” sessions that shared experiences from Baltimore County and the Kansas City region.

## Al Todd to Head New Forest Service Ecosystem Unit

After working 16 years for the Forest Service Northeastern Area State and Private Forestry unit in Annapolis, MD, Al Todd accepted a transfer to the Forest Service Washington Office effective this past August. His new position involves working in some uncharted waters. Al has been asked to lead a new unit within the Cooperative Forestry Staff to focus on ecosystem service approaches for private forest lands. The unit will help develop guidance on ways to quantify and value ecosystem services (water, carbon, and biodiversity, among others), work with States and others to initiate projects that demonstrate these approaches, build networks both internally and externally with those working on ecosystem services, culture relationships with new and nontraditional partners, and facilitate participation of private forest lands in marketplaces for ecosystem services. Join us in wishing him the best. Al can still be reached at [atodd@fs.fed.us](mailto:atodd@fs.fed.us).

## Urban Tree Health Assessment: A Tool for Communities and Citizen Foresters

In order to preserve the health of urban trees, an effective monitoring regime is necessary. Communities often seek the help of citizen foresters (concerned volunteers from the community) to aid in data collection. Unfortunately, these volunteers have limited tools and resources that an arborist or other tree professional might have. An effective urban tree monitoring regime is one that uses tools available to the average citizen and allows for minimal knowledge of urban forestry.

The U.S. Forest Service Southern Research Station in Blacksburg, VA, is in the process of constructing a Web-based tool that will enable urban foresters, citizen foresters, and other concerned individuals to assess the health of urban trees using digital photographs. The

assessment will be based on tree crown characteristics, which serve as good indicators of overall tree health. The tool will allow individuals to upload digital images of urban trees, have those images processed using crown analysis software, and receive the results of the analysis. The software, which was developed by the Forest Service, will provide estimates of tree length, crown diameter, live crown ratio, crown volume, crown density, and foliage transparency. A database-driven Web site will allow users to monitor individual tree crown characteristics over time and assist in diagnosing declining tree health. To learn more, see <http://www.treesearch.fs.fed.us/pubs/29359>.

## Urban Forests and Climate Change: Greenhouse Gas Reporting Protocols

Humans add carbon dioxide and other greenhouse gases to the atmosphere through a number of activities, in particular the burning of coal, gasoline, and other fuels for energy. Urban forests are one solution to both. The U.S. Forest Service Center for Urban Forest Research has been working for years to quantify the contribution of trees to reducing global warming, and has been invited to lead a team in drafting Urban Forest Reporting Protocols for the California Climate Action Registry. The Registry is the first in the Nation to provide a forum for entities—corporations, municipalities, even individuals—to voluntarily report greenhouse gas emissions. For more information on urban forest reporting protocols and greenhouse gas emissions, visit <http://www.fs.fed.us/psw/programs/cufr/>.

## Urban Forest Inventory and Analysis Training Update

Staff from the Morgantown Field Office trained Tennessee Division of Forestry and Colorado State Forest Service crews this summer on how to take measurements on urban forest inventory and analysis (FIA) plots throughout both States. This is the fourth year of the 5-year duration for the urban FIA project. All FIA plots falling within Census-defined urban areas are included in the project. Within urban areas, crews are inventorying the plots similarly to a forest plot with the addition of several key measurements that enable the data to be analyzed using the Urban Forest Effects Model (UFORE). This includes estimates of carbon storage and sequestration, air pollution filtration, and pest risk. Colorado is also participating in the urban FIA project. Information about the urban FIA projects and a recent report for Wisconsin can be found at [http://www.na.fs.fed.us/pubs/fhm/pilot/pilot\\_study\\_wisconsin\\_02\\_lr.pdf](http://www.na.fs.fed.us/pubs/fhm/pilot/pilot_study_wisconsin_02_lr.pdf). ♦

# News from the Mid-Atlantic States

## DELAWARE

### Delaware Forest Service Begins Urban Heat Island Mitigation Project

Controlling the urban heat island effect is critical to urban air quality management. The Delaware Forest Service received funding from the U.S. Forest Service to mitigate the impacts of the urban heat island effect in Delaware’s largest cities and towns. Planting shade trees; reducing impervious surfaces; and using lighter, reflective pervious paving will all have a positive impact. Potential locations and community partners are currently in the planning stages of developing best management practices focused on reducing summertime surface and air temperature, ultimately addressing public health concerns and climate change issues regionally. For more information, contact Henry Poole, Delaware State Urban Forestry Coordinator, at [Henry.Poole@state.de.us](mailto:Henry.Poole@state.de.us).

### Mayor Baker Introduces Latest Tool to Strengthen City Neighborhoods

This June, Wilmington Mayor James M. Baker introduced the “Top 25 Vacant Property Offenders” campaign—Wilmington’s latest tool in the battle to strengthen city neighborhoods by decreasing the number of vacant properties. Mayor Baker said the negligent property owners being named publicly own properties that have been vacant 10 years or longer. He said they have continually thwarted every effort by the city to force them to fix up their properties, sell the properties, or enable the city to acquire the properties so they can be conveyed to an owner who cares about Wilmington and its neighborhoods. Jeff Starkey, the city’s Commissioner of the Department of Licenses and Inspections, said another component of the campaign is the posting of large violation posters on each of the Top 25 offenders’ properties listing the owner’s name, address, and telephone number. Neighbors are encouraged to contact the negligent property owners directly to voice their dissatisfaction with the state of the blighted property.

Commissioner Starkey said the Top 25 Vacant Property Offenders campaign is meant to complement the city’s highly successful Vacant Property Registration Fee Program—a program designed to improve city neighborhoods by penalizing property owners who fail to keep their properties occupied and in good working order. “The Vacant Property Registration Fee Program has been

very effective in reducing the number of vacant properties in Wilmington,” said Commissioner Starkey. “Since the program’s inception in 2003, more than 400 previously vacant properties have been demolished or renovated and placed back into active use. In addition, the Vacant Property Registration Fee Program has led to the issuance of more than \$61 million in rehabilitation permits.”

The Vacant Property Registration Fee Program has received national recognition from the U.S. Conference of Mayors and the Ash Institute at Harvard University, and has been replicated by municipalities across the country. To learn more see [http://www.ci.wilmington.de.us/newsroom/2008/0625\\_Vacant\\_Property\\_Offenders.html](http://www.ci.wilmington.de.us/newsroom/2008/0625_Vacant_Property_Offenders.html). ♦

## DISTRICT OF COLUMBIA

### DDOT and Department of Parks and Recreation Improve Tree Canopy

The Urban Forestry Administration (UFA) in the District of Columbia Department of Transportation (DDOT) is working with the DC Department of Parks and Recreation (DPR) to improve tree care at DPR facilities across the city. Tree work began in August and will continue into the fall. Dead, unhealthy, and hazardous trees are being removed, and pruning completed on trees that historically have not been cared for by UFA. All tree removals were identified through a professional assessment by UFA. Prior to this summer, the care of DPR trees was not within the scope of activities of the UFA. Through this new agreement, the District’s tree canopy will be enhanced and the condition of DPR parks and facilities grounds improved. “DPR is proud to see the urban forestry experts from DDOT’s UFA in our parks working hard to protect and promote the health of all of our trees,” said Clark E. Ray, DPR Director. UFA maintains and provides a regular schedule of tree maintenance for DPR. Significant tree maintenance—including removal of dead, dying, diseased, or dangerous trees—is performed every 7 years. During other years, trees are planted, inventoried, and protected through other regular care and maintenance. “UFA works to protect, promote, and enhance the tree canopy throughout the District,” said John P. Thomas, DDOT Associate Director. “As stewards of the District’s trees, DDOT takes the removal of any tree seriously. Tree removal is never the first or easiest decision but sometimes it is necessary for the safety and protection of District residents and the overall health of the tree canopy. We

always work to make the best decision for the health of our trees, our parks, and our residents.” (Adapted from an August 28, 2008, District of Columbia Press Release.)

### DDOT/Urban Forestry Administration Tree Watering Campaign

More than 4,000 street trees have been planted this season by DDOT’s Urban Forestry Administration (UFA) as part of a District-wide effort to re-green DC. This summer, UFA announced a new campaign to assure that trees in the District are watered properly. Residents who adopt a tree on their block can receive a free “ooze tube” tree-watering bag to fill every week or two from June to October.

Ooze tubes are great for watering trees because once filled, they water the tree very slowly and assure water availability during periods of dry weather. They only require refilling every 1-2 weeks and allow air circulation to the trunk and soil. This spring and summer, about 1,000 ooze tubes have been distributed. More than 100 citizens have participated as new stewards of street trees. For more information, contact Robert Corletta, Lead Urban Forester, UFA, at robert.corletta@dc.gov or by phone at 202.671.2162.♦



Ooze tubes are a cost-efficient watering bag for street trees.

### MARYLAND

#### Maryland Growing Home Campaign Wins National Award

The Growing Home Campaign was recognized as a winner of the National Association of Counties 2008 Achievement

Award at a ceremony held in July. The Growing Home program is an innovative market-based approach to increase the tree canopy in the Maryland region by offering homeowners comprehensive education about planting trees. The program offers a cash incentive of a \$10 Growing Home Tree Coupon that encourages tree planting on private residential land. Begun by Baltimore County in 2006, and expanded in 2008 to include a partnership with Baltimore City, the Growing Home program is a successful public-private partnership between local government, retail nurseries, garden centers, and homeowners. For more information about this innovative program, contact Diana Cohen, Baltimore County Department of Environmental Protection and Resource Management, at dcohen@baltimorecountymd.gov.♦

### NEW JERSEY

#### New Jersey LTE Bill Passes Assembly

In June 2008, the Licensed Tree Expert (LTE) bill (A-2872) was passed through the Assembly Regulated Professions Committee by unanimous vote. This is the first big step to successfully getting the LTE bill passed. The bill was reintroduced this May and referred to the Assembly Regulated Professions Committee. On June 5, it was reported out of Assembly Committee with Amendments and a second Reading.

As amended, this bill, to be known as the “Tree Experts and Tree Care Operators Licensing Act,” repeals the “tree expert act” and provides an entirely new licensing scheme for persons providing tree care services. The bill establishes the title “licensed tree expert” instead of the title of “certified tree expert,” as used in the current law, and creates a new license for tree care operators. The bill establishes the New Jersey Board of Tree Experts within the Department of Environmental Protection.

The bill provides requirements on becoming a licensed tree expert (education requirements: 4-year college degree or 2-year degree with examination, continuous arboriculture employment for at least 3 years or 5 without accredited education requirements) in addition to continuing education requirements. This bill also stipulates that every business engaged in providing tree care services shall be board registered, provide employee training, and adhere to safety standards of the American National Standards Institute (ANSI). The bill exempts from its provisions any employee of a public utility or employer under contract with a public utility for the purpose of line clearance, and any forestry activities that are conducted under programs approved by the State Forester. The board and

the Department of Environmental Protection are charged with administering the bill and imposing various sanctions, including fines, suspension, or revocation of licenses, and obtaining injunctive relief for violations of the bill's provisions. The LTE bill was amended to exempt from the provisions any employee of a municipality or county while engaged in the actual performance of his or her duties as an employee.

For more information, see <http://www.njleg.state.nj.us/Default.asp>. To view the complete bill, type A-2872 in "bill search."

## New Jersey Offers i-Tree Training at Rutgers

This summer, a dozen participants from around New Jersey took part in i-Tree training at Rutgers University. Shannon Buckley of the New Jersey Tree Foundation trained participants on how to use the Mobile Community Tree Inventory (MCTI) software. Alec McCartney, NJFS, presented the Storm Damage Assessment Protocol, and Brian Widner (NJFS) presented the street tree benefits analysis tool called STRATUM. Participants learned about field data collection methods using handheld computers.

We congratulate the New Jersey DEP Community Forestry Program for being the first State to replicate last year's Mid-Atlantic training hosted by the Forest Service. Train-the-trainer workshops are intended to provide the tools and resources necessary to transfer training to the local level. This proved to be very successful in New Jersey with representation by urban foresters from the cities of Asbury Park, Linden, Morristown, Bradely Beach, Phillipsburg, and East Orange, and the Borough of Ridgefield.



Shannon Buckley talks about the features of MCTI software during New Jersey's i-Tree training session.

## Sudden Oak Death Detection Surveys Conducted in New Jersey

This May, the New Jersey Forest Service and Morgantown Field Office staff set sudden oak death (SOD) traps in three locations throughout New Jersey. The New Jersey Division of Forestry joined the effort to re-establish plots in three watershed areas for the second field season. The three watersheds represent areas within the State with local nurseries that have possibly received plants infected with the SOD fungus from California nursery distributors. The SOD fungal contaminant is *Phytophthora ramorum*, which is responsible for widespread oak tree death in California and parts of Oregon.



Participants in New Jersey learn how to use the Storm Damage Assessment Protocol on a PDA.

Because environmental conditions are quite similar within the Mid-Atlantic States and because it has been shown that the SOD pathogen can infect oaks, a great concern exists that SOD may spread from contaminated plants acquired in California and be establishing here. Early detection to recognize and control this pathogen using established stream-baiting techniques has been effective in California. These same techniques are being used in New Jersey as well as other States within the Northeastern Area. Traps using rhododendron leaves are very effective when capturing spores of *Phytophthora* species, including *P. ramorum*. To learn more, contact Al Iskra, U.S. Forest Service, at [aiskra@fs.fed.us](mailto:aiskra@fs.fed.us).

## New Jersey Group Presented Smart Growth Awards

*New Jersey Future*, a statewide research and policy group based in Trenton, presented its prestigious 2008 Smart

Growth Awards to winners in seven categories this June. This group has been using these awards to propagate sound land-use planning and development. To learn more, see <http://www.smartgrowth.org/news/newsmail.asp?art=6608&state=31> ♦

## OHIO

### **An Integrated Approach to Mitigate and Manage the Effects of Invasive Plants in Forest Landscapes in Ohio**

The Ohio Department of Natural Resources, Division of Forestry has received funding to mitigate and manage the effects of invasive plants in heavily forested watersheds of Ohio. The effort will focus on strategic use of and integration with U.S. Forest Service programs in cooperation with the Natural Resources Conservation Service, the Wayne National Forest, the Ohio Invasive Plants Council, and the Northern Research Station. Outcomes include treatment and control efforts, the strategic use of EQIP funds, demonstration areas, and recommendations for invasive plant management.

### **Dr. Kathleen Wolf Keynote Speaker at Ohio 11<sup>th</sup> Annual Tree Care Conference**

Ohio ISA is pleased to announce that Dr. Kathleen Wolf, a research scientist at the College of Forest Resources, University of Washington, will be the keynote speaker at the 11<sup>th</sup> Annual Tree Care Conference scheduled for February 22-24, 2009, at the Crowne Plaza Columbus North Hotel in Columbus, OH.

Dr. Wolf’s research is primarily related to environmental psychology. She has worked professionally as both a landscape architect and environmental planner, and is a known lecturer who has published more than 18 scholarly and professional publications since 1993. Much of her current work focuses on gaining a better understanding of the human dimensions of urban forestry and urban ecosystems, and understanding and communicating human behavior as people experience nature in urban settings. To register for the conference or learn more, see <http://www.ohiochapterisa.org/>. *(Adapted from an article by Katrina Schnobrich, The Buckeye Arborist, September/October 2008)*

### **Ohio Urban Forestry Program Creating a Tree Commission Academy**

To address the rapid turnover of tree commission members, as well as increase efficiency, the Ohio Urban

Forestry Program is creating a Tree Commission Academy. This will be a 16- to 20-week course spread over a 2-year period to train new and novice members of local tree commissions. The four sets of progressive classes (freshman, sophomore, junior, and senior) are intended to provide tree commission members with the knowledge, skills, and tools to make them effective partners in the management of their urban forest resources. For more information, please contact Drew Todd, State UCF Coordinator, at [Drew.Todd@dnr.state.oh.us](mailto:Drew.Todd@dnr.state.oh.us). ♦

## PENNSYLVANIA

### **EAB Traps Set Up Statewide in PA**

Counties considered at high risk from the emerald ash borer (EAB) that threatens Pennsylvania’s ash trees were part of a systematic monitoring program this summer. Pennsylvania’s 300 million ash trees could be wiped out in little more than a decade if EAB becomes established in Pennsylvania. This summer, approximately 13,000 traps were set up in 35 counties in an attempt to determine whether and how far this invasive insect has spread since its discovery last summer in Butler County, north of Pittsburgh. Most of the traps were in western Pennsylvania, but others were deployed in a grid (each 1.5 miles square) across a smattering of counties in the east, including Lackawanna, Luzerne, and Monroe. These counties are viewed as most at risk for the spread of the emerald ash borer. The surveillance program will be supplemented with a separate monitoring effort for the rest of Pennsylvania by the State Department of Conservation and Natural Resources and the U.S. Department of Agriculture. It will focus mostly on high-risk public lands such as State parks and forest, said Donald Eggen, Ph.D., Chief of Forest Pest Management for the DCNR. The three-sided panel traps are a bright purple color that seems to attract the beetles, and are baited with manuka oil.

### **GreenPlan Philadelphia**

GreenPlan Philadelphia is a planning project to help provide a long-term, sustainable roadmap for using, acquiring, developing, funding, and managing open space in Philadelphia’s neighborhoods. The planning process for GreenPlan Philadelphia encompassed four phases that resulted in open space recommendations and action items. These include:

- Identification of open space priorities by civic partners engaged in the community,

- Analysis of community input, best practices, and citywide data.
- Plan development, which is a synthesis of analysis findings into specific recommendations for successful open space throughout the city.
- Citywide implementation of the recommendations.

GreenPlan Philadelphia’s Web site, which provides information about the plan, community meetings, and projects in the city, can be accessed at <http://www.greenplanphiladelphia.com/node/453>.

### **Philadelphia Parks & Recreation Changes Appear Positive for Trees**

This summer, Philadelphia Mayor Nutter included an additional \$2.5 million in his first budget, with \$1 million being allocated for planting 3,500 to 4,000 trees throughout the city’s parks, neighborhoods, and nine high-crime neighborhoods. Remaining funds will be used to hire new park staff, and purchase materials and supplies.

These budget increases signal a historic turning point for Fairmount Parks. This is the first time in decades that the park’s budget has seen an increase. But even more profound are the changes that may be coming. This summer, City Council held a hearing on bills that would consolidate the governance of Fairmount Park and the Recreation Department and would reconstitute the Fairmount Park Commission. If Philadelphia City Council keeps its schedule, voters will get their say in November on a charter to dissolve the Commission and reconstitute it under a Parks and Recreation Department. We’ll keep you posted.

### **TreeVitalize Wins Philadelphia Sustainability Award**

This year, seven winners were honored at the Pennsylvania Environmental Council’s 2008 awards ceremony. More than a dozen “sustainability innovators” were finalists for the awards presented at a ceremony held during the annual Philadelphia Flower Show. The awards showcase the Philadelphia region’s progress toward becoming the most sustainable city in America. TreeVitalize, southeastern Pennsylvania region, won for its successful, unique partnership between public, private, and nonprofit sectors. It was recognized for its efforts to address the problem of tree loss, which not only affects neighborhood aesthetics, but air quality. TreeVitalize plans to replicate efforts in Pittsburgh and other metro areas around the State. ♦

## **WEST VIRGINIA**

### **West Virginia Division of Forestry Cool Community Challenge Grants**

Many communities in West Virginia have an insufficient canopy cover and struggle to effectively manage and protect existing urban forest resources. West Virginia’s Cool Community initiative will focus on the strategic planting of trees within these communities with an emphasis on reducing energy demands for heating and cooling. The purpose is to increase urban canopy cover to mitigate energy demands for heating and cooling in economically challenged communities. Other outcomes include increased awareness by community leaders and citizens of the need to manage the urban forest. This awareness will lead to the formation of citizen tree boards and the adoption of local policies and ordinances to create and sustain management efforts for urban trees and forests. This September, the West Virginia U&CF Council will evaluate applications and determine award amounts. Additional information about urban and community forestry and related programs can be obtained from Bob Hannah, West Virginia State Urban Forestry Coordinator, at [Robert.L.Hannah@wv.gov](mailto:Robert.L.Hannah@wv.gov).

### **West Virginia Emerald Ash Borer Treatment Project**

A cooperative project that involved the West Virginia Department of Agriculture, USDA APHIS Plant Protection and Quarantine, USDA APHIS Otis Methods Laboratory, and the U.S. Forest Service this past July resulted in the collection of data on 30 trunk-injected trees treated with Syngenta Tree-age®. Binoculars were used to sample tree boles for signs of emerging emerald ash borers. In addition, foliage samples were collected from trees for chemical analysis. This is part of a 3-year project to examine the longevity and effectiveness of this insecticide against EAB.

### **West Virginia Master Gardeners Use Green Thumbs to Raise Awareness**

*Green Thumbs, Healthy Joints* is a project at the Center for Excellence in Disabilities funded by the West Virginia Bureau for Public Health. This project collaborates with Master Gardener groups to raise awareness about the wide variety of ergonomic tools and accessibility options available to persons with musculoskeletal conditions. Six *Green Thumbs* grants each were awarded this spring

to Master Gardener groups across the State. The awards included Greenbrier Valley Masters Gardeners, Berkeley-Jefferson County Master Gardeners, Monongalia County Master Gardeners, Braxton County Senior Center, and Potomac County Master Gardeners. All projects will focus on outdoor therapy gardens and activities. In addition, each group will receive ergonomic gardening tools. For more information, contact Tammy Hare at: [thare@hsc.wvu.edu](mailto:thare@hsc.wvu.edu). *(Adapted from an article from WVATS Spring 2008 Newsletter)*

### **Attention: Regional Reporters for MAC ISA Needed in West Virginia**

The MAC-ISA newsletter committee is interested in designating a number of messengers throughout the Chapter to be regional reporters. If you are interested or know someone who might be good at this, please contact Nancy Herwig or Jessie Strother at [macisa@hughes.net](mailto:macisa@hughes.net). ♦

## **Partner Highlights**

### **Conference of Mayors Urban and Community Forestry Resolution Passed**

This summer, three resolutions relevant to urban and community forestry were passed by the U.S. Conference of Mayors during their summer meeting. To date, 850 mayors around the Nation have signed this agreement. Under the agreement, participating cities commit to take the following three actions:

- Strive to meet or beat the Kyoto Protocol targets in their own communities, through actions ranging from anti-sprawl land use policies to urban forest restoration projects to public information campaigns;
- Urge their State governments and the Federal government to enact policies and programs to meet or beat the greenhouse gas emission reduction target suggested for the United States in the Kyoto Protocol (7 percent reduction from 1990 levels by 2012); and
- Urge the U.S. Congress to pass the bipartisan greenhouse gas reduction legislation, which would establish a national emission trading system.

For more information on the U.S. Conference of Mayors Climate Protection Agreement and the list of Mayors who voted for it, see <http://www.usmayors.org/climateprotection/agreement.htm>.

To read the UCF resolution drafted by the Alliance for Community Trees (ACT) ([www.actrees.org](http://www.actrees.org)) and sponsored by Sacramento Mayor Fargo, which sets the stage for a bigger request in years to come, see page 282 of the Conference of Mayors Resolutions document dated June 2, 2008, at <http://www.usmayors.org/76thAnnualMeeting/ProposedResolutions.pdf>.

### **Partners in Community Forestry National Conference**

The U.S. Forest Service is one of 17 national organizations cooperating with the Arbor Day Foundation and The Home Depot Foundation to host the Partners in Community Forestry National Conference November 18-20, 2008, in Atlanta, GA. The conference will give participants the opportunity to engage with diverse professionals and volunteers focused on promoting the growth of community forests and striving to develop healthy, livable communities.

Over 40 presentations in general and concurrent sessions will focus on community tree and livability issues from a variety of perspectives. Conference highlights will include a networking dinner event at the Georgia Aquarium, welcome reception at the Trees Atlanta Kendeda Center, and the choice of three different tours, all included in the cost of registration. To see the complete schedule or to register, go to <http://www.arborday.org/shopping/conferences/brochures/pcf/2008/call.cfm>.

The Alliance for Community Trees Annual Meeting and NeighborWoods Academy will be held November 17 in conjunction with the Partners in Community Forestry conference. To learn more, see [http://actrees.org/site/stories/act\\_annual\\_member\\_rally\\_2008.php](http://actrees.org/site/stories/act_annual_member_rally_2008.php).

### **Planning for Urban and Community Forestry**

The American Planning Association (APA) invited nine experts and representatives from American Forests, the International Society of Arboriculture, and the U.S. Forest Service to a symposium to help identify principles to

guide planning for urban and community forestry. The resulting document divided ideas into general, planning, and design principles, and outlined some general rules under each. Urban and community forestry has grown from the original view of it as an aesthetic amenity that softens the urban landscape to a solution to pressing urban environmental problems. The symposium described five general principles to govern its use in planning. The full report was made available this July from APA. For more information, see [http://findarticles.com/p/articles/mi\\_m1016/is\\_1\\_114/ai\\_n25410375/print?tag=artBody;coll](http://findarticles.com/p/articles/mi_m1016/is_1_114/ai_n25410375/print?tag=artBody;coll). (Adapted from an article by Jim Schwab, Senior Research Associate, APA)

### National Elm Trial



Typical planting site for National Elm Trial trees.

This June, via the Society of Municipal Arborists List Serve, Nancy Buley, Director of Marketing and Communications for J. Frank Schmidt & Son Company, shared her experience as she walked the UC Davis test site of the National Elm Trial with Dr. Greg McPherson, U.S. Forest Service

Research Scientist. The National Elm Trial is a volunteer effort to evaluate and promote the use of Dutch elm disease-resistant American and hybrid elms. This effort grew out of the NCR-193 Agricultural Experiment Station coordinating committee on insects and diseases of woody ornamentals. This group consists of researchers and extension specialists located at land grant universities around the United States. Dr. Costello of UC Davis is evaluating the elm cultivars in terms of form, structure, and maintenance requirements while other support research partners are measuring growth, insect, and disease susceptibility. The National Elm Trial will be a great resource in determining the regional suitability of the many new elm cultivars that are on the market.

In 2005, J. Frank Schmidt & Son donated five species each of 15 cultivars of hybrid and DED-resistant American elms to 15 sites trial sites across the United States. They represented most of the new elms in the marketplace, and



Nancy Buley inspects elm trees with Dr. Greg McPherson with the U.S. Forest Service.

a few more have been added for a total of 17 cultivars. The trees have been planted on sites in Alabama, California, Colorado, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, New Jersey, New York, North Dakota, Ohio, Utah, Vermont, Washington, and West Virginia. Princeton nurseries donated the American elm cultivars “Princeton” and “New Harmony”

for nine locations in 2007. The American elm cultivar “Jefferson” will be grown at Fort Collins and distributed to trial sites. The American elm cultivar “Prairie Expedition” from the North Dakota breeding program has been added to the trial list. To learn the location of the trail sites, or read more, see the recently updated Web site at <http://treehealth.agsci.colostate.edu/research/nationalelmtrial/NationalElmTrial.htm>.

### Morris Arboretum Introduces Conservation Arboriculture: Care of Veteran Trees

A new school of thought has arisen in the approach to managing veteran trees. Known as conservation arboriculture, this movement is a paradigm shift in arboriculture thinking and is improving the understanding of the aging tree process. This summer, the Morris Arboretum of the University of Pennsylvania hosted a workshop that featured speakers Neville Fay of the United Kingdom and Philip Van Wassenaeer of Ontario, Canada. Both are on the forefront of conservation arboriculture, and are challenging us to think of trees in a whole new way. In one of their few appearances in the United States, the speakers reviewed the history of veteran tree care in Europe and North America, discussed biodiversity and co-evolution, and demonstrated newly developed techniques such as natural fracture pruning and coronet cuts.

For more information on this new emerging subject, contact Jason Lubar, ISA Board Certified Master Arborist and Associate Director of Urban Forestry, The Morris Arboretum of the University of Pennsylvania, at [lubar@pobox.upenn.edu](mailto:lubar@pobox.upenn.edu).

## Urban and Community Forestry Survey Results Compelling

NCDC Imaging asked participants to complete a survey after conducting a recent Webinar (see the *Tools, Publications, and Resources* section of this newsletter). Eighty-one industry professionals responded, and some survey highlights are described here.

### Which type of urban forest benefit gets the attention of mayors and other decisionmakers?

- Social 21%
- Economic 86%
- Environmental 35%

### To reach urban forestry goals, who is the toughest (but most worthwhile) partner to make?

- City Council 33%
- Mayor's Office 25%
- Watershed Group 0%
- Stormwater Department 8%
- Parks Department 6%
- Water Quality Group 0.0%
- Other 27%

### Are you considering any of the following in 2008?

- Canopy Cover Mapping 48%
- i-Tree 50%
- Street Tree Inventory 38%
- Municipal Forester Institute 24%

### When are you planning to map urban tree canopy?

- Completed 23%
- 0-6 months 12%
- 6-12 months 17%
- 1-2 years 23%
- More than 2 years 25%

### Do you have access to current high-resolution imagery?

- Yes 63%
- No 36%

### Do you have access to municipal infrastructure data?

- Yes 70%
- No 30%

### Do you need training in managing data?

- Yes 52%
- No 48%

## Pennsylvania State Association of Boroughs Offers Municipal Training

The Pennsylvania State Association of Boroughs hosts a multitude of training sessions of value to community officials throughout the year. This year, the Pennsylvania State Association of Boroughs hosted training to strengthen subdivision and land development review in the comprehensive community planning process.

The courses are organized into three major components:

- 1) Principles of subdivision regulation and ordinance requirements.
- 2) Subdivision and land development review procedures.
- 3) Design and technical requirements in subdivision development.

The program is designed for members of planning commissions and other officials involved in the subdivision review process and land development process. To view a list of courses, see <http://www.boroughs.org/training>. ♦



Autumn greetings from northeastern Pennsylvania! (Photo by Donna Murphy)

## News from Across the Northeastern Area

### International Meeting on Urban and Peri-urban Forestry

In late July, Urban and Community Forestry Program Manager Phil Rodbell represented the United States as a delegate to a United Nation’s Food and Agriculture Organization (FAO) meeting on urban and peri-urban forestry in Bogota, Colombia. He was invited to share lessons learned in the United States on working with inner-city communities, and to help draft policy and recommendations to the world body on establishing a new emphasis area on this topic within the FAO. The select meeting of 18 countries included representatives from global and national forestry agencies, nongovernmental organizations, and research institutions from Africa, Asia, Europe, and North, Central, and South America. Results of the meeting included the “Bogota Declaration” that defines the need for this new emphasis, which will be presented at the 4<sup>th</sup> World Urban Forum in Nanjing, China, in November, and the 13<sup>th</sup> World Forestry Congress in Buenos Aires next year, among other venues. Five policy priority areas were developed at this “first annual international” meeting, including Strategic Processes and Tools; Innovative Research; Technology Transfer and Communications; People Involvement and Empowerment; and Design, Planning, and Management. The 2<sup>nd</sup> annual meeting is planned for Malaysia in December 2009.



This view of Bogota, Colombia, shows the important need for sound urban forestry management in this very urban city.

### Urban Forestry Team Conducts Management Plan Workshops across NA

Developing an urban forest management plan is considered an important step in fostering a sustainable

urban forestry program. However, it appears that the majority of communities do not have current or useable plans in place. To help communities begin developing urban forest management plans, the U.S. Forest Service, State urban and community forestry staff, and the Arbor Day Foundation teamed up to host training sessions in August and September in the Northeast, Mid-Atlantic, and Midwest regions served by the three Forest Service Field Offices. Over 100 professionals participated in the training.

The training consisted of a 1-day workshop lead by consultant Mark Duntemann, who focused on how to initiate the process of developing an urban forest management plan, analysis of resources, and management plan development strategies. In preparation for the training, two supplementary Webcasts were delivered by Dr. Chris Luley and Mark Duntemann. They served to introduce the subject to participants and get them thinking about their needs while adding valuable training time and keeping travel costs low. A third Webcast was delivered on October 16 that featured municipal arborists from each region who discussed hurdles they have faced in completing and implementing urban forest management plans. After this final Webcast, the Forest Service will create a Web-based resource page for urban forest management. It will host all workshop resources and additional pertinent information related to the subject.

In March 2009, workshop participants will be contacted to document how the training is being used with an emphasis on new efforts related to more comprehensive urban forestry management planning activities.

The training planning committee included State coordinators from Indiana, Ohio, and Massachusetts; Arbor Day staff; and U.S. Forest Service staff. John Parry of the Forest Service took the lead in developing the training and delivery in the Northeast. Jill Johnson and Donna Murphy delivered the training in the Midwest and Mid-Atlantic regions.

### Wisconsin Urban Forest Health Monitoring Report Spawns New Outcomes

Dick Rideout, Wisconsin State UCF Coordinator, says he is very excited about Wisconsin’s use of the urban FIA data and the results they have seen from the pilot Wisconsin Statewide Urban Forest Health Monitoring report. The data from this report have been used to influence policy and

behavior in Wisconsin. The report, which was written by Anne Cumming and others, summarizes the characteristics of Wisconsin's overall urban forestry resource (not just the street trees), and has been the foundation for several initiatives, reports, and policy recommendations. Highlights resulting from the use of these data include:

- The first detailed report with budget and policy recommendations from the Wisconsin Urban Forestry Council, which has been sent to the governor, State legislature, and natural resources board, and which may result in several budget initiative considerations.
- An urban forestry policy proposal to the Governor's Global Warming Task Force that generated 30 pages of positive public comments.
- An urban forestry request to generate the prototype issue template for the Forestry Division's annual report, which hasn't been published in years.
- The information in the report has enabled Wisconsin to begin formulating an ambitious Urban Forestry Council initiative called 20 Million by 2020, which is a private-public initiative to care for the 27 million existing urban trees and plant 20 million more by 2020.

If you have not seen the Wisconsin report, it can be found at [http://www.na.fs.fed.us/pubs/fhm/pilot/pilot\\_study\\_wisconsin\\_02\\_lr.pdf](http://www.na.fs.fed.us/pubs/fhm/pilot/pilot_study_wisconsin_02_lr.pdf).

## Living Memorials Wins National Arbor Day Foundation Award

The Northeastern Area's Living Memorials Project was one of four recipients of the Arbor Day Foundation's 2008 Project Award. Project Awards recognize outstanding collaborative efforts involving tree planting and environmental stewardship. The Living Memorials Project honors the losses of September 11, 2001. This congressionally supported initiative invokes the power of trees to bring people together and create lasting, living memorials to the victims of terrorism and their families, communities, and nations. To date, the project has recorded more than 600 Living Memorial sites in all 50 States as well as the United Kingdom, France, Japan, and Australia. The Living Memorials Project supports a network of people and places dedicated to the heroes and victims of 9/11. To learn more about the Living Memorials Project, see: <http://www.livingmemorialsproject.net/>. (Adapted from a Northeastern Area News Notes article May 2008)

## Urban Tree Canopy Tools, Assessment, Goal Setting, and Implementation

Healthy urban ecosystems play a vital role in determining the health of the human communities in which they occur. In the Northeastern United States, the dominant ecosystem type occurring in communities is the urban forest. Community street trees, parks, woodlands, and larger urban forest ecosystems provide a variety of well-documented environmental, social, and economic benefits with greater benefits being derived from increasing community forest canopy cover.

Recognizing the link between increasing canopy cover and improved community health, a new initiative will utilize state-of-the-art remote sensing and analysis tools to explore and document opportunities to increase canopy cover within high-priority urban centers. The project will also build the local capacity of selected urban centers to use the analyses and implement strategies by developing local networks and coalitions within each area.

Massachusetts, Connecticut, Rhode Island, Vermont, Washington, and the District of Columbia are working together to facilitate sharing and comparison of project successes and challenges among all participants. Ultimately, the goal is to develop replicable procedures and strategies that can be shared with other cities and others nationwide.

## Using a Native Wasp to Search for an Invasive Pest

Northeast and Mid-Atlantic forest health managers are using colonies of the native ground-nesting wasp *Cerceris fumipennis* to search for the emerald ash borer (EAB). Their goal is to monitor the wasp's natural predatory behavior as a means to detect EAB earlier. The distribution of *C. fumipennis* ranges in the East from Southern Canada to Mexico and as far west as the Rockies. The insect can be found in areas of hard-packed soil and sparse vegetation, such as ballparks, campsites, and parking lots. Adult *C. fumipennis* provision their nests with metallic wood-boring beetles, including EAB.

Newly trained survey participants will continue to search for and monitor *C. fumipennis* wasp colonies in their respective States through this fall looking for EAB. Participants come from all six New England States, as well as New York, Pennsylvania, Maryland, and West Virginia. The U.S. Forest Service, Northeastern Area State and Private Forestry, is providing funding and coordinating

training for the cooperative survey efforts in New York and New England. NA is also developing an online database for States to submit their survey data and to help identify all beetles collected by the wasp.

Even as *C. fumipennis* promises to be effective for biosurveillance, it does not appear to show much promise in controlling the spread of EAB. "While the *Cerceris* wasp is an excellent biosurveillance tool, it will not be an effective biocontrol agent because EAB is so prolific," said Michael Bohne, Acting Forest Service Durham Field Office Forest Health Group Leader.

The project has already received extensive media coverage. More information is available on the Internet at <http://www.na.fs.fed.us/nanews/archives/2008/archives08.shtm>.

### Weapon Found for Emerald Ash Borer

Valuable landscape ash trees may now be protected from the emerald ash borer (EAB) with a new insecticide called emamectin benzoate, according to researchers at Michigan State University. The new product, which will be sold as Tree-äge, was "remarkably effective" in controlling EAB, said Deborah McCullough, Michigan State University forest entomologist and EAB researcher. The Michigan Department of Agriculture approved a special registration for the product for use in ash trees for controlling EAB. It has also been used on fruit and vegetable crops. Last fall, some of the emamectin benzoate-treated ash trees were felled and debarked to see how many EAB larvae were feeding on each tree. The emamectin benzoate-treated trees showed more than 99 percent fewer larvae than untreated ash trees. Although the results are promising, McCullough cautions that more study is needed. (*Adapted from an article in the Buckeye Arborist May/June 2008*)

### Indiana Sample Urban Statewide Inventory Update

The objective of this effort is to assess the health and state of Indiana's urban forests via a sample statewide inventory and analysis of findings. The study will provide insight into the changes in Indiana's urban forests over time by comparing the 2008 study to a 1993 study. The study incorporates structure, function, and value analysis of Indiana's urban forests using STRATUM as well as non-STRATUM analyses such as management trends and community program costs and composition. To learn more, see [http://www.itreetools.org/street\\_trees/introduction\\_step1.shtm](http://www.itreetools.org/street_trees/introduction_step1.shtm).

### Indiana Releases State of the Urban Forest Report 2007–2009

The Center for Urban Policy and the Environment estimated and described the intangible economic benefits of resources committed to the urban forests of Indiana in a recent report to the Indiana Department of Natural Resources. Policymakers often rely upon statistics such as jobs, wages, spending, and citizens' willingness to pay for program outcomes when evaluating and determining how to distribute scarce public resources to a wide range of initiatives.

The report addressed the issue from two perspectives. 1) The monetary value residents of one urban area are willing to pay for a denser, healthier urban forest. 2) The economic activity generated by the horticulture industry as it assists with the preservation and expansion of the State's forests.

Two modeling techniques were used to estimate the monetary and economic values of forests. Monetary values were estimated by determining the housing price premium residents pay to live in denser, healthier forest areas. Due to the complexity of estimating monetary value, the calculation of resident willingness to pay was limited to Marion County and Indianapolis, IN. While this is only one urban area, it is a typical urbanized area with types of development that potentially compromise the preservation of the urban forest. To view the factsheet, see <http://www.policyinstitute.iu.edu/PubsPDFs/Urban%20Forest%20FactSheet3.pdf>. To request a copy of the full report, contact the Center at [www.urbancenter.iupui.edu](http://www.urbancenter.iupui.edu).

### Invasive Plants and CO<sub>2</sub>

To determine whether rising carbon dioxide levels have been a factor in the establishment and success of invasive plants, the potential response of invasive and noxious species and other plant groups to recent and projected changes in carbon dioxide have been compared to assess whether CO<sub>2</sub> preferentially selects for such species within ecosystems. A synthesis of literature results indicates that invasive, noxious weeds associated with managed systems have a larger-than-expected growth increase in response to both recent and projected increases in atmospheric CO<sub>2</sub> relative to other plant species. There is evidence from a limited number of experiments that rising levels of CO<sub>2</sub> can preferentially select for invasive, noxious species within plant communities. Ziska, L.H.; Bunce, J.A.; Goins, E.W. 2004. *Oecologia*. 139: 454–458. ♦

## Research Findings

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### State Urban and Community Forestry Program Funding, Technical Assistance, and Financial Assistance within the 50 United States

This article describes the enabling legislation for urban and community forestry (U&CF) technical and financial assistance, types and frequency of technical and financial assistance, and U&CF programs for the 50 States. In 2002, Federal and State money financed the 50 State U&CF programs. Federal funds accounted for 60 percent, and State funding was 33 percent of the total \$36 million Federal government U&CF allocation in 2002 that went directly to support programs. State U&CF programs distributed 38.3 percent of program monies to local programs through grants. Remaining program monies were used to support State U&CF programs through providing technical assistance, administration, volunteer partnerships, and program administration. Nearly all State U&CF coordinators suggested that funding of their State U&CF program was inadequate for current needs. For the complete article, see Hauer, Richard J.; Johnson, Gary R. 2008. State urban and community forestry program funding, technical assistance, and financial assistance within the 50 United States. *Arboriculture & Urban Forestry*. 34(5): 280–289.

### Mulch Flammability

This study determined the flammability characteristics of four mulch types—pinestraw, large and small pine bark, and shredded cypress mulch—both in the field and laboratory under two drought regimes. To quantify all four flammability components, the study was conducted at two locations. Field studies were conducted at the Ordway-Swidher Biological Station (Putman Hall, FL), and laboratory studies were conducted at the National Institute of Standards and Technology (NIST) Building and Fire Research Laboratory in Gathersburg, MD. The research provides an overview of field and laboratory studies and corresponding statistical analysis. Researchers include Wayne Zipperer, U.S. Forest Service; Alan Long and Brian Hinton, University of Florida; and Alexander Maranghides and William Mell, USDC NIST. For the complete article, contact Wayne Zipperer at [wzipper@fs.fed.us](mailto:wzipper@fs.fed.us) or go to [http://www.interfacesouth.org/resources/files/Zipperer\\_mulchproceedings%5B2%5D.pdf](http://www.interfacesouth.org/resources/files/Zipperer_mulchproceedings%5B2%5D.pdf).

### Portable Hot Water Immersion System

A prototype machine and methods of using a hot water immersion system were developed by an IPM team headed by Dr. Stanton Gill from the University of Maryland. This system has been shown to be effective in insect control and is currently being evaluated for disease control effectiveness. It is designed to increase safety to nursery industry workers, reduce plant losses, and reduce pesticide costs. For more information, contact Dr. Gill at [sgill@umd.edu](mailto:sgill@umd.edu). (*Adapted from an article "In Hot Water," Northeastern IPM Center, Insights, February 2008*)

### Evaluating Proximity Impacts from Multiple Sources of Environmental Contamination

This paper presents an analysis of the potential effects of multiple sources of environmental contamination on the sale price of single-family residential properties in Dayton, OH. These findings suggest that the market had become desensitized to the effects of contamination in the area and proximity to contamination sources. For more information, contact Thomas O. Jackson, Texas A&M University, at [tjackson@mays.tamu.edu](mailto:tjackson@mays.tamu.edu).

### Efficacy of Imazapyr and Glyphosate in the Control of Non-native Phragmites

The invasion by a non-native haplotype of Phragmites has become a major concern due to a reduction in plant diversity, reduction of faunal biodiversity, and changes in ecosystem structure. A randomized complete block design was used to compare the efficacy of two herbicides, glyphosate (Rodeo, Dow AgroSciences, IN, U.S.A.) and imazapyr (Habitat, BASF Corporation, NC, U.S.A.), on 1-ha Phragmites monocultures in a shallow borrow pit. No significant differences in non-Phragmites plant recolonization were observed between herbicide treatments over the 2-year study. These results suggest that imazapyr is superior in reducing Phragmites RIV, and that earlier applications of herbicides may be more effective on Phragmites. For more information, contact Thomas J. Mozdzer at [mozdzer@virginia.edu](mailto:mozdzer@virginia.edu).

## Tools, Publications, and Resources

### UNRI Webcast Archive

If you missed any of the Forest Service's Urban Natural Resources Institute (UNRI) monthly Informational Webcasts that highlight the work of Forest Service scientists and urban forestry partners, see the archive of previous Informational Webcasts at the UNRI Web site at <http://www.unri.org/webcasts/archive//>.

### New Smokey Bear Campaign Launched

This campaign is intended to prevent unwanted human-caused fires. The Web site targets young adults and encourages them to not only practice fire safety habits but also to step in when others act carelessly. The campaign, titled "Get Your Smokey On," encourages people to take personal responsibility for fire safety. This is the first time in the history of Smokey Bear campaigns that intervention is part of the prevention message. A second series of public service announcements was developed in partnership with the Walt Disney Company and features characters from the film "Sleeping Beauty." It can be previewed at <http://www.adcouncil.org/default.aspx?id=60>.

### The Large Tree Argument: The Case for Large-stature Trees vs. Small-stature Trees

This eight-page factsheet promotes planting large trees by making the argument that the benefits of large trees need to be marketed better. The factsheet provides an overview of the worth of trees, costs versus benefits, and a hypothetical example that substantiates the large-tree argument. This factsheet was produced by the U.S. Forest Service Center for Urban Forest Research, Pacific Southwest Research Station, and the Southern Center for Urban Forestry Research and Information, Southern Research Station. For more information, go to [http://www.fs.fed.us/psw/programs/cufr/products/cufr\\_511\\_large\\_tree\\_argument.pdf](http://www.fs.fed.us/psw/programs/cufr/products/cufr_511_large_tree_argument.pdf).

### Smart Growth Shareware

This is a library of Smart Growth resources for everyone interested in creating livable, well-planned communities. The CD ROM contains road-tested presentations and materials by local and national leaders and organizations, and easily downloadable publications, factsheets, and Web links to over 100 additional resources. Version 2 updated. To obtain a copy, contact Smart Growth America or go to [www.smartgrowthamerica.org](http://www.smartgrowthamerica.org).

### Citizen Planner Land Use Training Program

*Citizen Planner Online* was created through Michigan State

University Extension to provide a convenient training opportunity for busy citizens and professionals. <http://cponline.msu.edu/course/index.php?course>

### A Tree for Every Child Educational Toolkit

American Forests has relaunched *A Tree for Every Child*. This educational campaign is a hands-on, flexible environmental education program that allows students to see how practical action can create a better world. The toolkit includes creative activities and hands-on projects, as well as suggestions for further activities to continue the experience beyond the classroom. It also includes a guide to fundraising, so that those children who have learned why the world needs more trees can become actively involved in making it happen. The *A Tree for Every Child* curriculum is also supplemented by a variety of activities that can be found on the American Forests Web site at [http://www.americanforests.org/resources/kids/a\\_tree\\_for\\_every\\_child/](http://www.americanforests.org/resources/kids/a_tree_for_every_child/).

### Growing a Healthier DC

Casey Trees has just produced a new series of issue briefs on the roles that trees play in making Washington, DC, a world-class sustainable city. The series of nine issue briefs examines how green infrastructure can be used to maximize environmental, social, and economic benefits in an urban environment. To view the series, see <http://www.caseytrees.org/resources/index.html>.

### Forestry Images Needs More Photos for UCF

Forestry Images, an online photo resource, contains an urban forestry section. Although there are approximately 55,500 high-resolution images in the Forestry Images archive, the urban forestry section only has about 500 images. More images will be added, and images that are already in the system will be recategorized. If you have photos you would like to have posted in Forestry Images, please contact Joseph LaForest, The Bugwood Network, University of Georgia, at [laforest@uga.edu](mailto:laforest@uga.edu). You can browse to the urban forestry section from the Forestry Images main page or jump directly to <http://www.forestryimages.org/urban.cfm>.

### USDA 2008 Emerald Ash Borer Survey

The States of Illinois, Indiana, Iowa, Kentucky, Maryland, Michigan, New York, Ohio, Pennsylvania, West Virginia, and Wisconsin participated in a delimiting survey within a 100-mile band of known emerald ash borer (EAB) infestations. These States deployed purple traps in a 1.5-

mile by 1.5-mile grid where ash is found growing. To view a map of the targeted survey zones in the 2008 Emerald Ash Borer Survey Guidelines, or for more information, visit [www.purpleeabsurvey.info](http://www.purpleeabsurvey.info). The EAB survey is funded by the U.S. Department of Agriculture. For more information about EAB, please visit the APHIS Web site at [www.aphis.usda.gov](http://www.aphis.usda.gov).

### **TreeBank**

*TreeBank* is an online system that distributes donations from individuals and sponsors to local TreeBank “branches.” The program provides an easy way to build community funds for tree planting and care. It is a program of TreeLink, a 501(c)3 nonprofit organization dedicated to providing the most complete, objective information about urban forests. To learn more, see Treelink’s Web site at [www.treelink.org](http://www.treelink.org).

### **Revised ANSI A300 Pruning and Lightning Protection Standards Released**

The revised ANSI Pruning and Lightning Protection Standards have been updated and can be purchased from the Mid-Atlantic Chapter of ISA for \$20 (non-members) and \$15 (members). For more information, see <http://www.isa-arbor.com/>.

### **Multispectral and Hyperspectral Imaging Applications Webinar**

NCDC Imaging offered this Webinar, which introduced technology and urban forestry case studies from Providence, Chicago, Denver, San Francisco, Charlotte, Indianapolis, and Milwaukee. Topics included setting urban tree canopy (UTC) goals, using LiDAR imagery and hyperspectral data in both CityGreen and i-Tree applications to set UTC goals, managing emerald ash borer, managing stormwater, and reducing heat island effects. If you missed this Webinar, it is archived at <http://www.ncdcimaging.com/>.

### **Center for Watershed Protection Subwatershed Restoration Manual**

The Center for Watershed Protection is making the *Pollution Source Control Practices* manual in its Urban Subwatershed Restoration series permanently available for free download. The manual outlines methods to discover pollution sources and details how education, training, direct municipal services, subsidies, and recognition can positively reinforce pollution reduction. It also addresses the permits, ordinances, inspections, and enforcement that are needed for the most severe stormwater pollution sources. There are profile sheets on 21 stewardship

practices for residential neighborhoods, and 15 pollution-prevention techniques to control stormwater hot spots. To download a copy, see [http://www.cwp.org/formmaker/Download-Form\\_RedirectFormPage.html](http://www.cwp.org/formmaker/Download-Form_RedirectFormPage.html).

### **Pedestrian Fatality Rates Higher in D.C.’s Outer Suburbs**

Alarmed by the percentage of traffic fatalities among metro area residents who walk to work or transit, the capital-based Coalition for Smarter Growth urged immediate action in a Washington Area’s Mean Streets report to ensure that walking is a safe way to travel. For more information, see <http://www.smartgrowth.org/news/newsmail.asp?art=6605&state=9>.

### **Ohio Urban Forestry Web Site – Audio and Video Resources Have Been Expanded**

There has been exponential growth in content on the Ohio urban forestry Web site. There are several available audio and video components. The urban trees component is very well done. See “Urban Trees Enhance Communities in Many Ways,” which gives a good overview of the benefits of trees and an overview of the Ohio urban forestry program. <http://www.ohiodnr.com/Home/urban/defaultbu/tabid/5438/Default.aspx>

### **Creating Effective Water Resource Partnerships**

Learn how and why to reach out to water resource professionals to improve urban forestry management in this recorded presentation. [www.ncdcimaging.com/OunceofPrevention](http://www.ncdcimaging.com/OunceofPrevention)

### **Deer and Forests: Impacts of White-Tailed Deer Overabundance in Forest Ecosystems**

[http://www.na.fs.fed.us/fhp/special\\_interests/white\\_tailed\\_deer.pdf](http://www.na.fs.fed.us/fhp/special_interests/white_tailed_deer.pdf)

### **Climate Protection Strategies and Best Practices Guide**

This report presents efforts by cities in the United States to conserve energy and reduce the greenhouse gas emissions that threaten our planet. Annapolis, MD; Trenton, NJ; Columbus, OH; Minneapolis, MN; and New York efforts are a few of the many city highlights in this 75-page report. See <http://www.usmayors.org/climateprotection/documents/2007bestpractices-mcps.pdf>.

### **Reports for Eastern Forest Product Manufacturers**

The National Association of Home Builders Research Center has partnered with the Forest Service’s Wood Education and Resource Center to develop a Web site

featuring hardwood product usage data in residential construction. The Web site, “Reports for Eastern Forest Product Manufacturers,” is designed for small businesses investigating opportunities for hardwood products in residential applications. See <http://www.nahbrc.org/hardwood/default.aspx>.

### Managing Your Woodlot Web Site

The West Virginia University Division of Forestry and Natural Resources has partnered with the Forest Service’s Wood Education and Resource Center to update and expand the “Managing Your Woodlot” Web site. This Web site, which was developed to educate private forest landowners, includes a “stumpage/log value” calculator that provides a glimpse at the variability in value among hardwood species. The Web address is [http://ahc.caf.wvu.edu/index.php?option=com\\_content&task=blogsection&id=12&Itemid=91](http://ahc.caf.wvu.edu/index.php?option=com_content&task=blogsection&id=12&Itemid=91).

### Recommended Non-Invasive Listings

The Meijer and Lowe’s store chains are both moving forward with marketing a non-invasive plant list. Meijer has worked with The Nature Conservancy to develop a special non-invasive plant list, which has some very good plants and a large number of cultivars represented. This list targets the Midwest. See [http://www.nature.org/wherework/northamerica/states/michigan/files/Meijer\\_plant\\_list.pdf](http://www.nature.org/wherework/northamerica/states/michigan/files/Meijer_plant_list.pdf).

### Plant Color and Type Forecasting for 2009

Horticulture, and nature in general, are the basis for most societal trends or preferences, and they have a strong attraction for people. These societal trends can create marketing opportunities for business. ColorForward™ reviews colors in the scope of overall fashion and design trends, and comes up with elements that they believe will affect those trends. For references and further information, go to [http://www.fashiontrendsetter.com/content/color\\_trends/2008/ColorForward-2009.html](http://www.fashiontrendsetter.com/content/color_trends/2008/ColorForward-2009.html) and <http://www.mccormick.com/content.cfm?ID=13008>.

### Forest Connect Webcasts for Landowners

*Forest Connect* Webcasts teach landowners about the identification and basic ecology of common conifers in the Northeastern United States. These Internet seminars are offered the third Wednesday of each month at noon and again at 7:00 p.m. for approximately 1 hour. The *Forest Connect* Internet Seminar Series is an interactive Web conference. Since May 2007, Web-based seminars have connected forest owners, managers, and practitioners from throughout the United States and overseas. More than 720 owners and managers from 40 States and three countries are

registered and receiving announcements for the monthly Webcasts. To learn more, see <http://centralpaforest.blogspot.com/2008/01/internet-seminar-addresses-strategies.html>.

### New Michigan Pocket Guides on Weeds

These Pocket Guides are written by experts in the field and are specifically designed as a useful field information resource. Recent additions include *An IPM Pocket Guide for Weed Identification in Nurseries and Landscapes*, *A Pocket Guide for IPM Scouting in Herbaceous Perennials*, and *An IPM Pocket Guide for Weed Identification in Christmas Trees*. For more information, see <http://www.emdc.msue.msu.edu>.

### Climate Change Resource Center Web Site

This excellent resource contains extensive information and many tools for land managers. Information is sorted according to subject area; the Web site also contains an extensive library of extremely useful and relevant video lectures from Forest Service scientists and land managers. <http://www.fs.fed.us/ccrc/>

### Trees for Parking Lots and Paved Areas

This Web site investigates the challenges that parking lots and other paved areas pose for tree growth, offers new strategies for planting trees in such areas, and provides a list of trees that grow well in paved areas in the Mid-Atlantic region. Bonnie Appleton (Extension Specialist) and others. Tech. Pub. No. 430–028. Virginia Tech. [posted March 2002.] See <http://www.ext.vt.edu/pubs/trees/430-028/430-028.html>.

### Preserving Trees in Construction Sites

Mississippi offers a comprehensive and detailed publication for developers on how to plan and develop with trees in mind. The booklet provides tree protection guidelines as well as a checklist of steps to save and protect trees on construction sites. <http://msucare.com/pubs/publications/p2339.pdf>

### Building the Case for Tree Canopy in SIPs

This Web site, created by the National Tree Trust, Davey Resource Group, U.S. Forest Service, and the Center for Chesapeake Communities, is dedicated to building the case for urban tree canopy cover inclusion in State Implementation Plans (SIPs). This Web site contains documents that are critical to 1) understanding the link between trees and air quality, and 2) navigating the State air quality improvement planning process. For more information, go to <http://www.treescleanair.org/> ♦

# URBAN AND COMMUNITY FORESTRY

## Calendar of Events, Meetings, and Conferences

Complete Calendar Available Online at:

[www.fs.fed.us/na/morgantown/uf/ufcalendar.html](http://www.fs.fed.us/na/morgantown/uf/ufcalendar.html)

### November 2008

- 4 - 5 **Illinois Arborist Association Annual Conference and Trade Show**  
**Location:** Tinley Park, Illinois  
**Event Type:** Conference **Program:** UCF  
**Info:** Illinois Arborist Association  
 (877) 617-8887  
 Link: <http://www.illinoisarborist.org/calendar.htm>
- 11 - 12 **Certified Treecare Safety Professional Workshop and Certification Exam**  
 Advance coursework is required. Call (800) 733-2622 or visit [www.tcia.org](http://www.tcia.org) for more information and to enroll. CTSP is the tree care industry's only safety trainer credentialing program.  
**Location:** Milwaukee, Wisconsin  
**Event Type:** Conference **Program:** UCF  
**Info:** Jennifer Hughes (603) 314-5380  
 Email: [jhughes@TreeCareIndustry.org](mailto:jhughes@TreeCareIndustry.org)  
 Link: <http://www.tcia.org>
- 13 - 15 **TCI EXPO 2008**  
 The world's Largest Tree Care Industry EXPO and Conference. Look for the event brochure in upcoming months or visit the Website and click Meetings for details.  
**Location:** Milwaukee, Wisconsin  
**Event Type:** Conference **Program:** UCF  
**Info:** Jennifer Hughes (603) 314-5380  
 Email: [jhughes@TreeCareIndustry.org](mailto:jhughes@TreeCareIndustry.org)  
 Link: <http://www.tcia.org>
- 17 - 20 **Alliance for Community Trees-Annual Member Rally**  
 Features research about trees as a tool for community revitalization, nonprofit executive networking, grassroots program models, and NeighborWoods tools for community organizing.  
**Location:** Atlanta, Georgia  
**Event Type:** Meeting **Program:** UCF  
**Info:**  
 Link: <http://actrees.org/site/lists/friends>

- 19 **Webcast/Marketing & Communications-Part 11: Strategy & Public Relations**  
 Typically, Urban Natural Resources Institute (UNRI) webcasts are the third Wednesday of the month at 10:00 a.m. Central/11:00a.m. Eastern, and Alliance for Community Trees (ACT) webcasts are the third Thursday of the month at Noon Central/1:00 Eastern. All are 1 hour in duration. All are recorded and archived on the internet for later viewing.  
**Location:**  
**Event Type:** Web-cast **Program:** UCF  
**Info:**  
 Link: [http://actrees.org/site/stories/act\\_webcast\\_series.php](http://actrees.org/site/stories/act_webcast_series.php)
- 19 **Webcast/Northern Research Station: Scientist at Work**  
 Typically, Urban Natural Resources Institute (UNRI) webcasts are the third Wednesday of the month at 10:00 a.m. Central/11:00a.m. Eastern, and Alliance for Community Trees (ACT) webcasts are the third Thursday of the month at Noon Central/1:00 Eastern. All are 1 hour in duration. All are recorded and archived on the internet for later viewing.  
**Location:**  
**Event Type:** Web-cast **Program:** UCF  
**Info:**  
 Link: <http://www.unri.org/webcasts/>

### February 2009

- 22 - 24 **Ohio ISA 2009 11<sup>th</sup> Annual Tree Care Conference**  
**Location:** Crowne Plaza Columbus North Hotel  
 Columbus, Ohio  
**Event Type:** Conference  
 Save the dates. More to come!  
 Featuring Dr. Kathleen Wolf, Keynote Speaker, who will address trees, public values, and economics.  
 Link: <http://www.ohiochapterisa.org>

The next issue of **Urban Projects** from the Morgantown Field Office will be Winter 2008.

Please send articles or events to:

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 Mid-Atlantic Center for Urban and Community Forestry  
 Keystone College, P.O. Box 1466  
 La Plume, PA 18440-1099

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