



Published by the Tennessee Urban Forestry Council

Trees Make a Difference

Fall Quarter 2009

Governor Helps Kick-Off Tennessee Groves

Save the Dates

18th Annual Urban Forestry Conference - Greening Our Communities: The Urban Forestry Approach. October 22-23, 2009, Lipscomb University, Nashville. Keynote: Alice Ewen Walker of Alliance for Community Trees. Continuing Education Credits: Pesticide, ISA, Landscape Architects & Nursery Professionals. Planners and Engineers may apply for points. See greeningyourcommunity.org.

11th Annual Tennessee Tree Climbing Championship, October 24, Nashville.

Public Forum: Let's Talk Trees - Managing Nashville's Urban Forest. Learn about the state of Nashville's urban forest and discuss related issues. 10-12, Centennial Park. Free admission. Presented by Trees Nashville and TUFC. Visit www.TreesNashville.org.

On June 30th Governor Phil Bredesen joined TDOT Commissioner Gerald Nicely and Department of Tourist Development Commissioner Susan Whitaker at the Bristol Welcome Center to launch Tennessee Groves, a program that provides people with a way to memorialize loved ones, commemorate special events and beautify the state. The program is a partnership between TDOT and TUFC. (Continued on Page 4).



Attending were Ted Daily, district forester; Tom Simpson, East TN urban forester, Jon Nessel, The Ornamentor, Chattanooga; Tennessee Governor Phil Bredesen; Jennifer Smith, TUFC director; Hester Rodgers, Pulaski Tree Board President; Jeremy Stout, Bristol urban forester; Todd Morgan, Community Development Corporation, Morristown; Nancy Estes, Bristol Tree Board past president

WANTED



See <http://www.tennesseetrees.org>



Tennessee Groves Chairman for TUFC, Jon Nessel, of Chattanooga chats with Governor Bredesen about tree care at the celebration.

Alice Ann Barge Wins National Award

Nashville Tree Foundation founding board member Alice Ann Barge received the President's Volunteer Service Award for lifetime achievement. She accepted the award May 14 at a Keep America Beautiful Great American Cleanup Kick-Off event at Bicentennial Mall at the foot of the state capitol. Keep America Beautiful President Matt McKenna read the proclamation signed by President Barack Obama, his first since taking office.

Alice Ann has dedicated her life to Nashville and especially its trees. She has been involved with the Horticultural Society of Davidson County for many years. As a fourth-grade teacher for many years at Oak Hill School, Alice Ann's science classes zeroed in on trees and how they function. She initiated many student-led projects including labeling the trees on the school property, many more than 200 years old.

She was instrumental in the Metropolitan Council establishing the Metropolitan Tree Board in 1985 and has served continuously on the Tree Board and its successor Metro Tree Advisory Council since its inception. She is MTAC's only life member.

She has served on the board of the Nashville Tree Foundation since its founding in 1986. The foundation's highly popular Big Old Tree Contest followed the guidelines of one of her projects while a teacher.

"Her knowledge and love of trees continues to be an inspiration--and often a special project--to all those with whom she is associated," said Tree Foundation president Betty Brown. "In addition to the Tree Advisory and Tree Foundation this includes her garden club, her church, her family and friends," Brown said.



Nashville Tree Foundation founding board member Alice Ann Barge accepts her presidential proclamation from Nashville mayor Karl Dean and Keep America Beautiful president Matt McKenna.



TUFC Mission Statement

The Tennessee Urban Forestry Council serves as an advisory body to promote healthy and sustainable urban and community forests in Tennessee by providing leadership and guidance through education, planning, advocacy, and collaboration.



Check out our website!
Always something new at tufc.com



TUFC 2009 Board

EAST TENNESSEE

Liz Didier - Utility Forester, Knoxville Utilities Board

Patrick Haller - SECRETARY, Haller Landscaping and Lawncare, Sparta

Todd Morgan - Program Director, Morristown Community Development Corporation

Jon Nettle - Arborist & Landscape Consultant, Chattanooga

Warren Nevad - Mgmt Consultant, UT Municipal Tech Advisory Svc.

Patrick Walding - IMMEDIATE PAST PRESIDENT, City Forester, Johnson City

MIDDLE TENNESSEE

Dr. Nathaniel Appleton
Postdoctoral Research Associate, TN State Univ.

Zach French - SECOND VICE PRESIDENT, Arborist, Tree Solutions Consulting, Nashville

Carl Herbison - Chairman, Dickson Tree Board

Karla Kean - PRESIDENT - TSU Extension, Clarksville

Heather Langford - FIRST VICE PRESIDENT
Sustainable Solutions Group, Nashville

Derrick Lynch, Environmental Systems Supervisor
Middle TN Electric Membership Corp., Murfreesboro

Gene Nix, Gibson Guitar, Nashville

Hester Rodgers - Chairman, Pulaski Tree Board

Todd Snackenbun, Arborist, City of Franklin

WEST TENNESSEE

Sharon Burch - Central Gardens Neighborhood Assn., Memphis

Jimmy Ferrell - TREASURER
Arborist, Ferrell's Tree Service, Memphis

Susan Murray - Urban Forestry Consultant

Trey Watson - Forester, Jackson Energy Authority, Jackson

ONE YEAR APPOINTMENTS

Dwight Barnett, Area Forester

Mike Leventhal - Asset Equity Corporation

Thomas Solinsky, SongForest

John Wasmer - ACRT, Operations Manager

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Carbon Capture

Air Pollution Helps Plants to Absorb More CO2

Washington, DC (April 23, 2009)- An article published in Nature found that increased atmospheric pollution has enhanced plant productivity by as much as a quarter since the 1960s, resulting in as much as 10 percent more CO2 uptake in the soil worldwide. It has been assumed that clear, sunny skies are ideal for the greatest plant growth, but the presence of clouds and pollution scatter the light in the process of diffuse radiation. This results in fewer leaves left in total shade and an increase in photosynthesis. "Surprisingly, the effects of atmospheric pollution seem to have enhanced global plant productivity by as much as a quarter from 1960 to 1999," said lead author Lina Mercado, a researcher at the Centre for Ecology and Hydrology in Britain. Researchers acknowledge that this presents a dilemma when trying to clean the atmosphere of particle pollution as well as reduce the concentration of atmospheric greenhouse gases.

"As we continue to clean up the air- which we must do for the sake of human health- the challenge of avoiding dangerous climate change through reductions in CO2 emissions will be even harder," said co-author Peter Cox, a researcher at Britain's University of Exeter.

BBC News - Pollution 'fights global warming':
http://actrees.org/files/Newsroom/bbc_co2plants.pdf

AP - Air pollution "helps plants blunt climate change"
http://actrees.org/files/Newsroom/ap_co2plants.pdf

New and Renewing Membership

West Tennessee Chapter

Jack Golio

Government

City of Lakeland

Individual

Tom Brashear
Robert Bruner
Thomas Close
David Cole
Becky Dan
Marti Foster
Stephan Kivett
Craig Lenocker
Lisa Limza
Noah Long
Randall Smith
Edward Wansing
Guy Zimmerman

Benefactor

Tennessee Valley Authority

Business

Bartlett Tree Expert
Knoxville Utility Board
Let it Grow, LLC
The Tree Firm

Tennessee Groves Kick-Off Celebration With Governor Bredesen

Memorialize Loved Ones, Commemorate Events, Beautify the State (Continued From Cover)

“Tennessee Groves is a beautiful way to create a lasting memory of a loved one, honor a fallen friend, or celebrate a special occasion, such as the birth of a child,” said Bredesen. “By planting flowers and trees we are adding to the natural beauty of our state and improving the air we breathe.”

Bredesen joined Nicely and TDOT’s Region One HELP crew to plant the first flowers in honor of Eddie Newcomb, a HELP Supervisor in Knoxville who died in May 2009. “The flowers planted today will be a lasting memorial to his service to the state,” added Nicely. “Eddie really enjoyed his work with the HELP unit in Knoxville and through the years he rescued hundreds of motorists. His legacy will continue each summer when these flowers bloom.”

Through Tennessee Groves, individuals or groups may purchase trees or flowers for planting at one of four Welcome Centers in the state: I-81 in Bristol, I-55 in Memphis, I-75 in Chattanooga and I-65 in Giles County south of Nashville beginning in the fall of 2009.

Donors will receive a certificate denoting the tree or flower to be planted, the donor’s name and the name of the person or event being honored. Individual trees will not be labeled; however, TUF C will record both the honorees and the donors in a book at each Tennessee Groves site. Trees will be planted each year between November and March which is the optimum time for tree planting.

“Our Welcome Centers are the front doors to our state and the Tennessee Groves program will create a stunning entry into Tennessee,” said Whitaker. “We are pleased to work with TDOT and TUF C to create beautiful gateways into the state that will also honor our citizens.”

Three types of plantings are available: shade trees, including sugar maples, red oaks and magnolias, are \$275; flowering trees such as dogwoods and redbuds are \$150; and flowers, including daffodils, tulips and daylilies are \$25.

“These flowering and shade trees will create a beautiful setting at our Welcome Centers and will improve the natural environment by cleaning and cooling the air and helping to control erosion which protects areas from water pollution,”

added Jennifer Smith, State Executive Director of the Tennessee Urban Forestry Council.

“Tennessee Groves is a good alternative to roadside memorials,” said TDOT Chief of Environment and Planning Ed Cole. “Memorials along a busy roadway are dangerous to both the person placing the memorial and passing motorists. Those memorials can be distracting and can serve as projectiles should a driver leave the roadway and strike it. In contrast, Tennessee Groves is a safe, lasting and legal way to honor and remember a loved one.”

For more information on the Tennessee Groves program or to purchase a tree or flower, visit www.tufc.com.



Commissioner Whitaker addressed the audience

Society of American Foresters Meeting With an Urban Forestry Twist

The Kentucky and Tennessee Society of American Foresters Meeting held recently in Lakeland had an Urban Forestry Twist with both traditional and urban foresters attending. The conference style meeting was chaired by Society member Nick Bridgeman who serves as president of the West Tennessee Chapter of the Urban Forestry Council and is Lakeland's Municipal Forester.

The speakers and tours focused on both traditional and urban forestry issues concerning the wildland urban interface and noted where they have overlapping and common niches. Traditional Foresters learned how to look at the trees up close, how they affect residents and citizens, and most importantly how the citizens form their objectives about their community forests. Urban Foresters learned to look past the trees at the forest itself, the benefits of and threats to the forest, and most importantly the forest's function as a living entity.

As both types of foresters came together as stewards and managers of natural resources, they found themselves having more in common than difference. Whether it is basal targets for optimal advanced hardwood regeneration or systemic treatment for bacterial leaf scorch, both believe in proper management based on sound science. They are fully aware that their lives are not static. Forests and the trees within them are no different. The conference and tour ended with a call for all Foresters (Traditional and Urban) to be vocal and involved in resource protection and conservation where you work and where you live. If we don't we'll have neither.



Meeting tour included an open space under conservation easement.

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Calendar of Events

September 12

Fifth Annual Forest Faire, Memphis; All About Trees Exhibits and Information. Tree ID; Seedlings for sale; Arboretum information; Morning children programs; Presented by Volentine-Evergreen Community Association and the Wolf River Conservancy; 10 am - 5 pm. Go to www.wolfriver.org for map.

September 15

12 week Prep Course for ISA Arborist Certification starting Sept 15. Memphis Botanic Garden. Instructor Wes Hopper. Enhance your knowledge of tree identification, function, evaluation and maintenance. Includes preparatory information and/or review for students taking the "Certified Arborist Examination" designated by the ISA's certification program. Advance registration required. For more information, Laurie Williams, (901) 636-4128 or laurie.williams@memphistn.gov.

September 26

Tree Climbing, Rigging and Safety Workshop, Memphis Botanic Garden, 9 am to 1 pm. Instructor Wes Hopper. For the beginning tree climber, covering tree risk assessment, aerial rescue and climbing techniques. Advance registration required. For more information: Laurie Williams at (901) 636-4128 or laurie.williams@memphistn.gov.

October 4-7

45th Society of Municipal Arborists Conference and Trade Show, Tools to Make Your Tree Counts, Programs, Tours and CEUs. Hyatt Regency, Savannah, GA. Dan Hartman, Urban Forester for Cleveland, TN, is SMA's president and will give the official welcome. Program/registration at <http://www.urban-forestry.com>.

October 8

West Tennessee Chapter of the TUFC Meeting, 12 noon to 3 pm, Memphis, Agricenter International. To get on the e-mail announcement list, contact Chapter Chairman Nick Bridgeman at nbridgeman@lakelandtn.org.

October 22-23

18th Annual Urban Forestry Conference and Trade Show
Greening Your Community: The Urban Forestry Approach, Lipscomb University, Nashville. For program/registration, visit greeningyourcommunity.org. Early Bird Registration Sept 25th. CEU Options: ISA, Pesticide, Landscape Architecture and Certified Nursery Professional. Thu., Oct 22 - Pre-conference Arborist Workshop--traditional arborist and utility arborist tracks, Tours, Trade Show, Welcome Reception and Dinner. Fri., Oct 23 Keynote and Concurrent Programs, Trade Show and Awards of Excellence Luncheon.



October 24

11th Annual Tree Climbing Championship, Centennial Park, Nashville. Competitor registration: greeningyourcommunity.org. To learn about being a judge, contact event chairman Scott Winningham at sawinningham@charter.net or (931) 261-1967. This statewide competition promotes professionalism and safety. Participants compete for the state title and an automatic berth in the ISA Southern Tree Climbing Competition held in the spring. The winner of the Southern competition proceeds to the international competition in late summer.

Public Forum: Let's Talk Trees - Managing Nashville's Urban Forest. The public is invited to learn about the state of Nashville's urban forest and to discuss related issues. 10 am to Noon, Centennial Park. Admission is free. Presented by Trees Nashville and TUFC. Visit www.TreesNashville.org.

November 5-7

Tree Care Industry Association's TCI Expo; Biltmore: pre-conference workshops Nov. 3 & 4; compare equipment, evaluate products, meet with tree care professionals from around the nation; in-depth discussions offering cutting edge research, best work practices and tips for growing your business. Also Student Career Days for arboriculture, horticulture and forestry students. Brochure or register: www.tcia.org. 1-800-733-2622.

November 9-11

Partners in Community Forestry National Conference, Arbor Day Foundation, Portland, OR. Doubetree Hotel. Details on the web at <http://www.arborday.org/pcfcall>.

November 13-14

Summit For a Sustainable Tennessee, Wilson Co. Ag Expo, Lebanon. TN Environmental Council. www.sustainabletn.org.

November 19

TUFC Board and Town Hall Meeting, Lakeland. For more information: Jennifer Smith (615) 352-8985 or tufc@comcast.net.

February 21-26, 2010

Municipal Foresters Institute (MFI), sponsored by the Society of Municipal Arborists (SMA), Lied Lodge & Conference Center Arbor Day Farm, Nebraska City, Nebraska. Registration closes Nov 15, 2009 or when full. Information and registration (706) 769-7412, www.urban-forestry.com. MFI is a high-level training institute educating professionals in urban forestry program leadership and management. This week-long event delivers a challenging opportunity to shape a successful tree care program. MFI does not include technical or arboriculture training, focusing on leadership and management tools of program administration, coalition building, strategic thinking, program planning and public relations.

April 6-8

16th Annual Trees and Utilities National Conference.

New Program - America's Historic Tree Register

American Forests is asking the public to go online and nominate their favorite tree for a place on *America's Historic Tree Register*. This nomination process is not just limited to the public but includes all established historic tree programs and historical societies.

This newly created Register will showcase historically and culturally significant trees, in addition to spotlighting trees that have played notable roles in an individual's life, such as one planted by an ancestor or those climbed as a child.

Trees can be nominated on <http://www.americanforests.org/htr/> and can be entered into one of 5 categories:

Historic trees – trees associated with a historic or cultural event

Famous people – trees associated with historical, cultural, literary, or artistic figures

Places – trees associated with a historic location, institution, park, or festival

Age – trees that are remarkably old

Unique – trees that are unusual in size, shape, or growing range, have survived through difficult circumstances, or are significant in folklore

The nominated tree will be published in the Register if its description qualifies for one of the five categories and has supporting documents. If a nominated tree does not qualify for the category, or cannot be authenticated, then it will be listed as a Personal Tree. This separate category is a part of the Historic Tree Program, but not of the official Register. It will include any tree that has a significant meaning to an individual, providing a forum for anyone to share the story of their special tree.

Trees selected for the Register may also be propagated, and the seedlings sold by American Forests' Historic Tree Program, so that anyone can share these living pieces of history. The Historic Tree Program's nursery brings history alive by providing the offspring of trees connected to famous people, events, and places.

America's Historic Tree Register is a project steeped in American Forests' history. The first reference to historic trees was featured in the American Forest magazine back in 1917. This project is supported by the U.S. Forest Service Urban and Community Forestry Program on the recommendation of the National Urban and Community Forestry Advisory Council.

For more information contact historictrees@amfor.org or Sheri Shannon (202) 737-1944



Stormwater Engineers Testing a Bioswale to Treat and Reduce Parking Lot Runoff

Effectiveness in trapping pollutants, increasing stormwater retention and making water available for trees

Davis, CA (March 1, 2009)- Dr. Qingfu Xiao has just released a report on Davis Soil used in a bioswale to mitigate parking lot stormwater runoff. The results show its effectiveness in trapping pollutants, increasing stormwater retention, and making water available to trees. Davis Soil is made of natural materials readily and inexpensively available in California, and Dr. Xiao's earlier report gave it high marks when compared with other engineered soils from Cornell and Carolina State.

A bioswale integrating Davis Soil (a mixture of Lava Rock and regular soils) and trees was installed in a parking lot on the University of California Davis's campus to evaluate the system's effectiveness on reducing storm runoff and pollutant loading from the parking lot and supporting tree growth. The control and treatment (best management practices or BMP) sites each had 8 parking spaces. These two sites were adjacent to one another and identical with the exception being that there was no Davis soil bioswale retrofit for the control site. A tree was planted at both sites. Storm runoff, pollutant loading, and tree growth were measured and monitored during February 2007 thru October 2008. There were 50 total storm events with a total precipitation of 563.8 mm (22.2 in) during this period.

Compared with the runoff from the control site, the BMP site reduced amount of surface runoff by 88.8 percent. The loading reduction for nutrients, metals, organic carbon, and solids were 95.3%, 86.7%, 95.5%, and 95.5%, respectively. The total loading reduction was 95.4 percent. Petroleum hydrocarbons (i.e., gas, diesel, and motor oil) from both sites were below the laboratory detectable limit. The nature of Davis soil proved a better aeration and drainage system for tree roots during high moisture season. The performance of this BMP demonstrated its potential use for reducing runoff from parking lot and supporting tree growth.

Urbanization converts largely pervious landscapes into buildings, roads, parking lots, and other impervious surfaces that increase storm runoff volume and contaminant loads. Urban storm runoff causes property damage, adds pollutants to receiving water bodies, increases the cost of infrastructure maintenance, and reduces groundwater recharge because of reduced infiltration.

Engineered soils are a type of soil that integrates soil and stones to support runoff storage, increase infiltration, and promote deep rooting that reduces the heaving of sidewalks, curbs and gutters by tree roots. They are highly porous, and have been used to expand the soil volume for trees in small tree wells in plazas and parking lots. In this study, pollutant removal rates of contaminated storm runoff and runoff storage capacities were tested for three different types of engineered soils. Surface runoff was collected from parking lots and streets in different types of land uses for a variety of storm sizes and seasons. The laboratory test results indicated that 29 to 84 percent of the nutrients in the storm runoff were removed by these engineered soils. The heavy metal removal rate ranged from 75 to 92 percent. Pollutant removal rates were strongly related to the type and size of rainfall event, runoff pollutants concentration, as well as the pollutants constituents and engineered soil types.

Related Resources:

Testing a Bioswale to Treat and Reduce Parking Lot Runoff - http://actrees.org/files/Research/psw_cufr761.pdf

Urban Runoff Pollutants Removal of Three Engineered Soils - http://actrees.org/files/Research/psw_cufr754.pdf

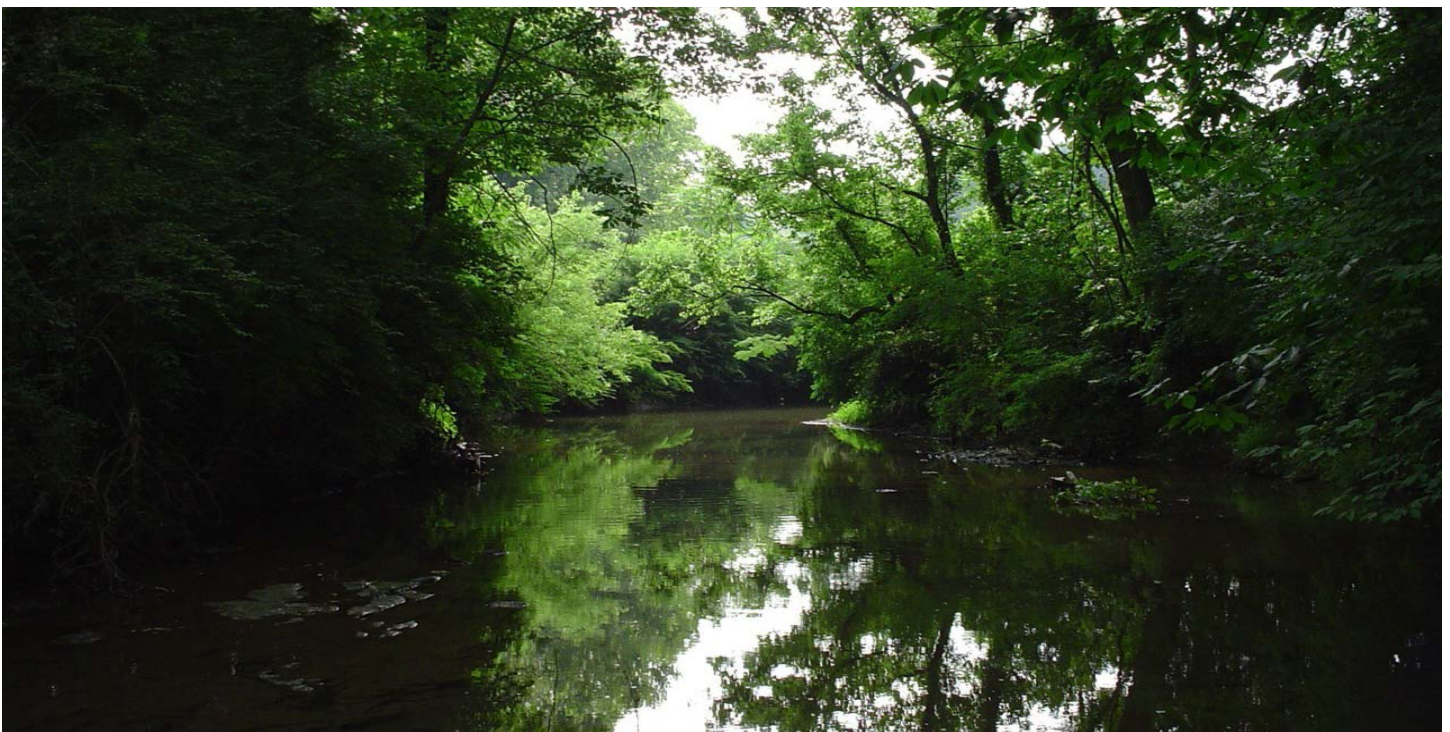


Urban & Community Forestry Grants Announced

The Tennessee Department of Agriculture, Forestry Division recently announced that 11 communities and non-profits across Tennessee have received Urban & Community Forestry grants to improve their community tree resource. These 11 entities and what they intend to accomplish include:

1. Clarksville - digitize tree inventory data to run canopy analysis through City Green
2. Nashville - detailed canopy cover study
3. Cumberland River Compact - educational programs for builders, developers, and the public on trees for the region
4. Kingston Pike/Sequoyah Hills Neighborhood in Knoxville - inventory and management for their neighborhood
5. First Presbyterian Church in Jackson - arboretum development and tree labeling for their grounds & landscape
6. Bartlett - pamphlets to support program effort
7. Milan Public Utilities - training and support for improved tree management & exploring achievement of Tree Line USA status
8. Nashville State Comm College - Design services to improve and update their grounds and landscape
9. Crossville - additional inventory of trees & update management plan
10. Tennessee Tech University - additional inventory of trees & update management plan for Cookeville TN
11. Urban Forestry Council - support the State Urban Forestry Conference & Tree Climb and planning retreat

The Urban & Community Forestry grants program is funded by the USDA Forest Service through the Tennessee Department of Agriculture, Forestry Division.



Is this a State Park? A National Park? No, it's the Sevenmile Creek at Ellington Agricultural Center. Six minutes by road from one of the busiest intersections in Nashville, it offers peace and tranquility to hikers on the "Rogers Walk"



Tennessee Urban Forestry Council

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Branching Out is a publication of the Tennessee Urban Forestry Council (TUFC).

Newsletter Committee:

Dr. Douglas Airhart, Dottie Mann and Jennifer Smith



The Tenn. Dept. of Agriculture, Div. of Forestry, and the TUFC work together to enhance urban forestry statewide.

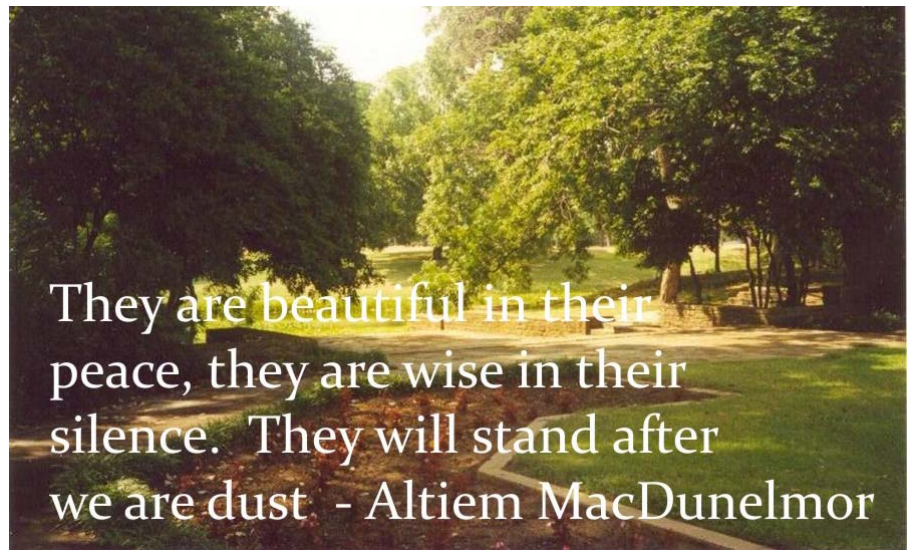
"To plant trees is to give body and life to one's dreams of a better world."

-- Russell Page

Volunteer to plant trees on Nashville Tree Foundation ReLeafing Day

Volunteer for the 8th ReLeafing Day, Inglewood neighborhood, November 21, Nashville 8:30 am. Nashville Tree Foundation, To volunteer: volunteers@nashvilletreefoundation.org. Volunteers needed to plant more than 100 powerline-approved trees. "The Foundation will return to the Inglewood neighborhood for its annual tree planting on the Saturday before Thanksgiving when we again will plant trees that can co-exist with powerlines," said Betty Brown, founding president of Nashville Tree Foundation. "This is a large, older established neighborhood that needs more trees."

Brown said the Foundation began planting powerline-approved trees on ReLeafing Day in 2005 to demonstrate the best trees to plant under powerlines that do not require pruning to reduce height. Representatives of Nashville Electric Service, one of the sponsors of the annual project, has surveyed the Inglewood neighborhood for sites that qualify for the FREE trees. Recipients will choose from four species, chosen from the list of 19 power-line approved trees compiled by the Metro Tree Advisory Committee that reach an average maximum height of 20 feet at maturity. That list is on the web at <https://secure.nashville.gov/beautification/docs/Trees/powerlineapproved.pdf>. ReLeafing Day is a joint project of the Foundation, Metro Tree Advisory Committee, Metro Parks, Metro Beautification and Environment Commission, and Nashville Electric Service in cooperation with the Inglewood Neighborhood Association.



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Tree Inventory
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Notable Trees of Tennessee Exhibit Touring Schedule

**Look for Schedule on www.tufc.com
If you want to host this exhibit, contact
Jennifer Smith - tufc@comcast.net**