# NORTH CAROLINA URBAN FORESTRY PLAN (2004-2008)

In simple terms, urban forestry can be defined as the management of all wooded vegetation within urban areas (Phillips, *Urban Trees*, 1993). But this definition does not even begin to address the complexity of the actual practice of urban forestry. This complexity comes from the extent to which humans impact their environment (Miller, *Urban Forestry*, 1996):



- More people living in cities requires the expansion of the cities into the surrounding rural woodlands.
- Social value shifts to reflect urban living exert a strong influence on the management of rural land.
- Urbanization continues to have a negative impact on vegetation within cities as well as in the urban/rural interface and rural forests.

That said, urban forestry, as defined by the Society of American Foresters, is a specialized branch of forestry that aims to cultivate and manage trees for their present and potential contributions to the physiological, sociological and economic well-being of urban society. In its broadest sense, urban forestry embraces a multifaceted managerial system that includes municipal watersheds, wildlife habitats, outdoor recreation opportunities, landscape design, recycling of municipal wastes, tree care, and the future production of wood fiber as a raw material.

Urban forestry, then, addresses woodlands, groups of trees, individual trees, and the urban fringe, wherever people live. And these areas provide benefits as well as challenges.

#### I. FORESTRY IN NORTH CAROLINA

North Carolina has a long history of management and stewardship of the state's forest resources. More recently, emphasis has extended to the urban forest resource in order to maintain and improve the quality of life in our communities. There is a growing realization that the urban forest must be managed with stewardship in mind, as population and development continue to increase. The benefits of a managed urban forest contribute to the economic and environmental well-being of all North Carolina communities.



The NC Division of Forest Resources' Urban and Community Forestry Program has made significant progress since it was established in the early 1970s. Prior to 1991, the program's funding was tenuous. Then, in response to the 1990 Farm Bill, state urban forestry programs were funded through the USDA Forest Service. In addition, a budget for Urban and Community Forestry Grants was established and Urban Forest Councils were established in all 50 states.

This five-year plan for the NC Division of Forest Resources' Urban and Community Forestry Program builds on the accomplishments since 1991. The plan encompasses our progress and present status followed by a plan of action for the next five years. Assistance was provided from the USDA Forest Service, the NC Urban Forest Council and the NC Cooperative Extension Service.

#### II. WHERE ARE WE NOW?

# **Demographics**

According to the 2000 census, North Carolina's population was 8 million people and it was the eleventh most populous state in the nation. Based on 2003 estimates, the state has grown about 4.5% since the 2000 census. The source of the growth is shared by migration and increases in the resident population.

In addition, there are changes in the population's composition. The age of the population is increasing which will have a significant impact in the needs and expectations of citizens. Experts anticipate that this group will have greater disposable income, be more politically active and be looking for volunteer activities within their communities. At the opposite end of the age spectrum, people in the echo boom generation (children of the baby boomers) are expected to increase the population under 10 years old and increase the demand for programs for these younger citizens.

An increase of high tech industries and the growth of urban centers has created a more affluent and cosmopolitan population. North Carolina has become a predominately urban state (51% of the population resides within a municipality based on 2002 estimates). However, much of the state is still relatively rural in nature, with only six municipalities with populations greater than 100,000 and only 25 of the 100 counties having at least one municipality with a population greater than 20,000. Of the 543 municipalities in the 2000 census, 232 had populations less than 1,000 with another 228 having 1,000-7,500 people. This leaves only 83 municipalities with a population greater than 7,500.

# <u>Overview of Urban Forests/</u> Forestry in North Carolina

Throughout North Carolina forests and trees face many challenges. Studies show that in urban environments only one tree is planted for every four removed. Due to improper planting and care, trees in urbanized areas live an average of seven years, never reaching maturity. Compacted or paved ground creates high summer temperatures and prevents water from filtering down to a tree's root zone. Thousands of acres of forested land are cleared for development, leaving fragments of forest scattered throughout the landscape. There is little concern for the replacement of lost canopy cover due to development activities.



The magnitude of the increasing significance of urban forestry in North Carolina can be seen in the following table which shows a 1.1 million acre decrease in

timberland between 1990 to 2002. This reduction in acreage is overwhelming urban, developmental and *permanent*.

Timberland Change 1990-2002	Acres
Area of timberland 1992	18,710,381
Additions from non-forest	618,991
Diversions to:	
Noncommercial forest	20,789
Agriculture	567,654
Water	18,172
Urban (and other)	1,038,340
Area of timberland in 2002	17,684,417
Net change in timberland	-1,025,964

Given that urbanization has such a profound impact upon the air, forests and rivers of the state, the practice of urban forestry can make a strong positive contribution to the mitigation of these effects. An Urban Forestry technical assistance program can link cities and the forested urban fringe. Such a program is also a valuable means to educate the public of the need for specialized forestry practices in the expanding zone of fragmented forestland.

# **Local/State/National Programs:**

Currently, about 65 communities in North Carolina have a tree ordinance. Thirty-one municipalities employ a full-time urban forester, arborist, horticulturist or landscape supervisor. The NC Division of Forest Resources (NCDFR) employs two full-time urban foresters and involves a number of field personnel to assist cities and towns in urban forestry matters. The Cooperative Extension Service provides valuable educational assistance to municipalities across the state through their county agents. The statewide Master Gardener Program has a new training module on trees and tree care.



Tree City USA (TCUSA) communities are committed to the management of the urban forest. TCUSA communities have a tree ordinance, spend a minimum of \$2.00 per capita on trees and many have tree boards. This program, sponsored by the National Arbor Day Foundation and administered by the Division of Forest Resources, has 51 communities presently registered as Tree Cities.

#### III. WHERE ARE WE GOING?/HOW WILL WE GET THERE?

#### **Urban Forestry Program of the**



#### **Division of Forest Resources**

The Mission of the Department of Environment and Natural

**Resources** is to provide leadership education and advocacy for the responsible stewardship of North Carolina's environment and natural resources.

The Mission of the Division of Forest Resources is to develop, protect and manage the multiple resources of North Carolina's forests through professional stewardship, enhancing the quality of life for our citizens while ensuring the continuity of these vital resources.

The Objective of the Urban Forestry Program is to provide technical assistance and services to individuals, groups, communities, governmental agencies and organizations with respect to the protection, improvement, management, establishment and utilization of trees and shrubs in urban areas, communities, and open spaces, for the improvement of the beauty and livability of the urban environment.









#### IV. PROGRAM GOALS

The goals developed to reach the mission statement of the Urban and Community Forestry Program:

#### Goal 1: Public Awareness, Education and Communication

Objective: Increase the knowledge level of North Carolinians regarding the importance of trees to the social, economic and environmental well-being of the citizens and the state.

#### Actions:

- A. Provide information, training and other educational opportunities for arborists, tree boards, municipal tree managers, volunteers and other urban forestry partners through mailings, programs, public events, media campaigns and personal contact.
- B. Create relevant informational materials for distribution to the public through field staff, North Carolina Urban Forest Council (NCUFC) workshops, Cooperative Extension Service, and other cooperators.
- C. Increase public awareness of professionalism and the importance of certified arborists.
- D. Support the initiative of NC State University College of Natural Resources in creating an urban forestry curriculum and distance education programs.
- E. Promote the NC Champion Tree Program with a new web site.
- F. Create a calendar of Champion Trees for distribution.
- G. Support conservation education projects and programs which include a specific urban forestry message.
- H. Maintain a statewide mailing list/database that includes U&CF partners and resources.

<u>**Objective:**</u> Support NCDFR field staff in working with communities, interest groups, local governments.

#### Actions:

- A. Educate field technicians and foresters regarding urban forestry issues with in-house and external training opportunities.
- B. Equip field personnel with proper resources and support materials, including internal web site, references, urban forester consultant lists, and similar material.

- C. Keep field personnel informed regarding urban forestry programs, grant applications, educational opportunities.
- D. Provide state and county fairs with urban forestry materials.

**Objective:** Increase awareness of urban forestry within "green industry" (e.g., lawn care, landscaping, etc.).

#### Actions:

- A. Promote and support compatible goals and objectives of the North Carolina Urban Forest Council including marketing, education and training offerings.
- B. Support urban forestry goals and objectives of the North Carolina Cooperative Extension Service for their programs in Entomology, Plant Pathology, Soil Science, Horticulture and Forestry.
- C. Encourage and support outreach activities by non-profit groups, including the NCUFC, to other green industry organizations, such as booths, workshop partnerships, etc.

# Goal 2: Sustained and independent comprehensive urban forestry programs

**Objective:** Increase number of communities with urban management programs.

#### Actions:

- A. Encourage and promote the Tree City USA program, new certifications, recertification and Tree Growth Awards.
- B. Assist communities establish local tree boards.
- C. Assist cities and towns with the adoption of urban tree management and/or landscape ordinances.
- D. Provide access to appropriate tree inventory programs and consultants for tree inventories.
- E. Promote the "Hire an Urban Forester" to communities, encouraging partnerships between communities.
- F. Promote assessments of tree cover and canopy loss in urbanized areas.

**Objective:** Increase participation of interest groups in urban forestry activities in their locales.

#### Actions:

- A. Promote Arbor Day poster contests, celebrations and tree plantings.
- B. Encourage local interest group involvement with NeighborWoods and other local initiatives.
- C. Promote the inclusion of volunteer participation (Scouts, schools, clubs) in grant applications.
- D. Promote the identification and inclusion of underserved and at-risk groups and communities in grant projects.
- E. Increase availability of workshops and other educational opportunities to all areas of the state, such as the I-40 workshop series and the Carolina Canopy workshops by the

NCUFC, and multiple presentations of workshops across the state.

**Objective:** Increase level of tree care and maintenance for sustainability.

#### Actions:

- A. Encourage proper planting and follow-up tree care techniques through educational opportunities by sub-grantees of the Urban and Community Forestry Program as well as NC Cooperative Extension Service and NC Urban Forest Council.
- B. Support tree-planting initiatives and projects which include educational elements for proper tree planting and care.
- C. Promote use of appropriate species, particularly native trees and shrubs where appropriate.
- D. Promote hazard tree assessment and mitigation through materials, workshops in urban forestry ordinances and management plans.
- E. Provide assistance to individuals, organizations, homeowner associations and communities, which may include, where appropriate, management plans, tree selection, planning, maintenance, hazard tree identification, removal recommendations and insect and disease problems.
- F. Promote the creation or improvement of tree ordinances using seven main components: tree protection, tree planting, tree inventory, tree maintenance, hazard tree mitigation, publications/promotion and education.

# Goal 3: Integration of goals of urban forestry, silviculture, resource planning, water quality, fire protection, and insect and disease.

<u>**Objective:**</u> Increase understanding and importance of planning for trees.

#### Actions:

- A. Promote and provide access to workshops on zoning and design, building with trees and tree protection for local government, planners, developers, and other appropriate entities.
- B. Promote the inclusion of green and natural spaces in projects and planning naturalizing, linkages, corridors, reducing maintained areas.
- C. Provide and create additional materials and support information for people in areas of North Carolina under development pressure.

**Objective:** Increase understanding of silviculture in the urban interface.

#### Actions:

A. Create a web site with local ordinance information relating to trees, for landowners, developers and other interested parties.

- B. Encourage the management of small wooded properties in the urban interface, through informational materials and workshops.
- C. Promote "suburban" silviculture techniques that are acceptable in and around populated areas.
- D. Promote wildland/urban interface standards for fire protection and prevention in planning for developments in wooded areas, through programs such as FireWise.
- E. Provide assistance as requested for planning in the urban/rural interface.
- F. Promote urban forest management for the benefits that can be achieved for urban wildlife, soil protection, and water quality improvements.

#### RESOURCE INFORMATION

#### **ORGANIZATIONS**

American Nursery and Landscape Association 1000 Vermont Avenue NW, Suite 300 Washington, DC 20005-4914 202.789.2900 www.anla.org

American Farmland Trust 1200 18th Street NW, Suite 800 Washington, DC 20036 202-331-7300 www.farmland.org

American Forests PO Box 2000 1516 P Street NW Washington, DC 20013 202.955.4500 www.americanforests.org

American Horticultural Society 7931 East Boulevard Alexandria, VA 22308 800.777.7931 www.ahs.org

American Planning Association 122 South Michigan Avenue, Suite 1600 Chicago, IL 60603 312.431.9100 www.planning.org/index.html

American Society of Consulting Arborists 15245 Shady Grove Road, Suite 130 Rockville, MD 20850 301.947.0483 www.asca-consultants.org

American Society of Landscape Architects 636 Eye Street NW Washington, DC 20001-3736 202.898.2444 www.asla.org

Army Environmental Policy Institute 430 Tenth Street NW, Suite 206 Atlanta, GA 30318-5768 404.786.2445 www.aepi.army.mil Associated Landscape Contractors of America 150 Elder Street, Suite 270 Herndon, VA 20170 800.395.ALCA www.alca.org

College of Natural Resources, NCSU
Department of Forestry
Box 8008
Raleigh, NC 27695-8008
919.515.2891
http://natural-resources.ncsu.edu/for/

Duke Power Company PO Box 1090 Charlotte, NC 28201-1090 www.duke-energy.com

Entomological Society of America 9301 Annapolis Road Lanham, MD 20706-3115 301.731.4535 www.entsoc.org

Extension Forestry North Carolina State University Box 8003 Raleigh, NC 27695-8003 919.515.5638 www.ces.ncsu.edu/nreos/forest

Garden Club of NC Inc. 505 Oberlin Road, #150 Raleigh, NC 27605 919.834.0686

Green Laws
Highlighting legal standards and
technical requirements for site
development planning, tree
preservation and landscape
ordinance legislation.
www.greenlaws.lsu.edu

International Society of Arboriculture PO Box 3129 Champaign, IL 61826-3129 217.355.9411 www.isa-arbor.com International Society of Arboriculture, Southern Chapter 213 Apollo Drive Mount Airy, NC 27030 336.789.4747 www.isasouthern.org

Land Trust Alliance 1319 F Street NW, Suite 501 Washington, DC 20004 202.638.4725 www.lta.org/org.html

National Alliance for Community Trees 4302 Baltimore Ave Bladensburg, MD 20710-1031 301.699.8635 www.actrees.org

National Arbor Day Foundation 100 Arbor Avenue Nebraska City, NE 68410 402.474.5655 www.arborday.org

National Arborist Association Route 101, PO Box 1094 Amherst, NH 03031-1094 603.673.3311 www.natlarb.com

National Scenic Byways Resource Center 130 Paley Way Alpharetta, GA 30022 770.619.1822

National Tree Trust 1120 G Street NW, Suite 770 Washington, DC 20005 800.846.8733 www.nationaltreetrust.org

National Urban & Community Forestry Advisory Council USDA Forest Service 20628 Diane Drive Sonora, CA 95370 209.536.9201 www.treelink.org/nucfac/index.htm

National Wildlife Federation 11100 Wildlife Center Drive Reston, VA 20190-5362 800.822.9919 www.nwf.org. NC Department of Environment and Natural Resources 512 N Salisbury Street Raleigh, NC 27626 919.733.4984

NC Department of Transportation 1 S Wilmington Street Raleigh, NC 27611 919.733.2520 www.ncdot.org

www.enr.state.nc.us

NC Division of Community Assistance 301 N Wilmington Street Raleigh, NC 27801 919.733.4151 www.dca.commerce.state.nc.us

NC Division of Forest Resources 512 N Salisbury Street Raleigh, NC 27699 919.733.2162 www.dfr.state.nc.us

NC Division of Parks and Recreation 512 N Salisbury Street Raleigh, NC 27699 919.733.4181 www.ils.unc.edu/parkproject/ncparks.html

NC Electric Membership Corporation 3400 Sumner Boulevard Raleigh, NC 27616 800.662.8835 www.ncemcs.com

NC Forestry Association. 1600 Glenwood Avenue, Suite 1 Raleigh, NC 27608 800.231.7723 www.ncforestry.org

NC Society of Consulting Foresters 3625 Westridge Circle Rocky Mount, NC 27804 252.443.5667

NC Board of Registration for Foresters PO Box 27393 Raleigh, NC 27611 919.772.5883 http://members.aol.com/ncbrf/index.htm NC Urban Forest Council PO Box 25852 Winston-Salem, NC 27114-5852 336.774.0215 www.ncufc.org

NC Wildlife Resources Commission 1726 Mail Service Center Raleigh, NC 27699-1726 919.662.4370 www.wildlife.state.nc.us

Progress Energy Carolinas PO Box 1551 Raleigh, NC 27602-1551 800.452.2777 www.progress-energy.com

Scenic NC 19 W Hargett Street PO Box 628 Raleigh, NC 27602-0628 919.832.3687

Society of American Foresters 5400 Grosvenor Lane Bethesda, MD 20814-2198 301.897.8720 www.safnet.org

Southern Center for Wildland-Urban Interface Research and Information 408 W University Avenue, Suite 306 Gainesville, FL 32601 352.376.3213 www.interfacesouth.org Society of Municipal Arborists 7000 Olive Boulevard University City, MO 63130-2300 314.862.1711 www.urban-forestry.com

Tree Care Industry Organization 3 Perimeter Road, Unit 1 Manchester, NH 03103 800.733.2622 www.natlarb.com

Treelink Includes an extensive links list, research, news, forums, and urban forestry educational materials. www.treelink.org

USDA Forest Service, Southern Region 1720 Peachtree Road NW Atlanta, GA 30367-9102 404.347.1647 www.urbanforestrysouth.org

USDA-Natural Resources Conservation Service, NC Office 4405 Bland Road, Suite 205 Raleigh, NC 27609 919.873.2100 www.nc.nrcs.usda.gov

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Abiotic Disorders of Landscape Plants: A Diognostic Guide. 2003. Costello *et.al*. University of California, Pub 3420. http://anrcatalog.ucdavis.edu

An Illustrated Guide to Pruning, 2<sup>nd</sup> ed. 2002. Edward Gilman. Delmar Publishers, Albany, NY

Arboriculture and the Law. 1992. Merullo and Valentine. International Society of Arboriculture (ISA), PO Box 3129, Champaign, IL www.isa-arbor.com

<u>Arboriculture, Integrated Management of Landscape Trees, Shrubs and Vines, 4<sup>th</sup> ed.</u> 2003. Harris *et.al.* Prentice Hall. Englewood Cliffs, NJ

<u>Diseases of Trees and Shrubs.</u> 1987. Sinclair, Lyon & Johnson. Cornell University Press, Ithaca, NY

<u>Drought Resistant Trees.</u> 1989. University of Georgia Cooperative Extension Service, Athens, GA

<u>Forestry Handbook,</u> 1984. Society of American Foresters 5400 Grosvenor Lane, Bethesda, MD

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<u>Insects That Feed on Trees and Shrubs, 2<sup>nd</sup> ed.</u> 1991. Johnson and Lyon. Cornell University Press, Ithaca, NY

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Modern Arboriculture, 1991. 100 Tree Myths, 1993. Alex Shigo. Shigo and Trees Associates, PO Box 769, Durham, NH www.chesco.com/~treeman/treeinfo.html

<u>Pirone's Tree Maintenance, 7<sup>th</sup> ed.</u> 2000. Hartman *et.al.* Oxford Press, New York, NY <u>Principles and Practice of Planting Trees and Shrubs.</u> 1997. Watson and Himelick. ISA.

Protecting Trees from Construction

Damage: A Homeowner's Guide, 2<sup>nd</sup> ed.

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Minnesota Extension Service.

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distribution/housingandclothing/DK6135.html

<u>Shading Our Cities.</u> 1989. Moll and Ebenreck, eds. Island Press, Washington, DC

Storms over the Urban Forest. 1994. Burban and Andresen. USDA Forest Service

Recommended Trees for Urban Landscapes:
Large Trees for North Carolina; Plants for
Seashore; Plants for Wet Sites; Small Trees
for North Carolina; Trees for Difficult Sites;
Trees, Utility Lines. Horticulture
Information Leaflets. NC Cooperative
Extension Service.
www.ces.ncsu.edu/depts/
hort/consumer/hortinfo.html

<u>Street Tree Factsheets.</u> 1993. Gerhold *et.al.*, eds. Pennsylvania State University Publications Office

<u>Trees for Urban and Suburban Landscapes.</u> 1997. Edward Gilman. Delmar Publishers, Albany, NY

<u>Urban Forestry: Planning and Managing</u> <u>Urban Greenspaces, 2<sup>nd</sup> ed.</u> 1996. Robert Miller. Prentice Hall, Inglewood Cliffs, NJ

<u>Urban Soils: Applications and Practices.</u> 1999. Philip Craul. John Wiley & Sons Indianapolis, IN

<u>Urban Soil in Landscape Design.</u> 1992. Philip Craul. John Wiley & Sons, Indianapolis, IN

Weed Science Society of America Handbook Weed Science Society of America, 309 W Clark Street, Chicago, IL

#### STANDARDS AND GUIDELINES

A Photographic Guide to the Evaluation of Hazard Trees in Urban Areas. 1991. International Society of Arboriculture (ISA), PO Box 3129, Champaign, IL www.isa-arbor.com

American Standard for Nursery Stock. 1996. American Nursery and Landscape Association, 1000 Vermont Avenue NW, Suite 300, Washington, DC www.anla.org

ANSI A300: <u>Tree, Shrub, and Other Woody</u>
<u>Plant Maintenance - Standard Practices;</u>
<u>Best Management Practices</u>

<u>Pruning - Part 1-2001</u>

<u>Fertilization - Part 2-2004</u>

<u>Support Systems - Part 3-2000</u>

<u>Lightning Protection Systems - Part 4-2002</u>

<u>Management of trees and shrubs during</u>

<u>site planning, site development, and</u>

<u>construction - Part 5</u>

<u>Transplanting - Part 6</u>

<u>Integrated Vegetation Management - Part 7</u>

ISA.

ANSI Z133.1-2001: American National
Standard for Arboricultural Operations Pruning, Repairing, Maintaining, and
Removing Trees, and Cutting Brush-Safety
Requirements.
ISA.

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Trees and Overhead Electric Wires: Proper Pruning and Selection. 1994. E.B. Himelick. ISA.

# Appendix 1

#### 1. Communities with tree ordinances:

Asheville\* Oriental\* **Granite Quarry** Black Mountain\* Greensboro\* Raleigh\* Red Springs\* Boone\* Greenville\* Brevard\* Hamlet\* Rocky Mount\* Hendersonville\* Rowland Burlington\* Carrboro\* **Hickory** St. Pauls\* Salisbury\* Carv\* Hillsborough Chadbourne\* Jacksonville\* Shelby Kinston\*

Chapel Hill Southern Pines\* Charlotte\* Knightdale\* Southport\* Clinton\* Laurinburg\* Statesville\* Concord Lenoir St. Pauls\* Davidson Lexington Surf City\* Long Beach\* Durham\* Taylorsville\* Valdese\* Eden\* Louisburg Edenton\* Lumberton\* Wake Forest\* Marion\* Weaverville\* Elon Enfield\* Matthews\* Wendell\* Erwin\* Maxton\* Wilkesboro Farmville\* Mocksville\* Wilson\*

Fayetteville\* Monroe\* Winston-Salem\* Franklin Mooresville Yanceyville\*

Franklinton\* Morganton \* indicates Tree City USA

Coldshoro\* New Born\* certification.

Goldsboro\* New Bern\*
Graham\* Oak Island\*

# Communities with programs coordinated by an urban forester, arborist or landscape supervisor.

Apex Gastonia Salisbury Asheville Graham Southern Pines Boone Greensboro Statesville **Surf City** Brevard Greenville Carrboro Hickory Valdese Jacksonville Wendell Cary Laurinburg Chapel Hill Wilmington Wilson Charlotte Lumberton

Durham Mount Airy Winston-Salem

Farmville New Bern Fayetteville Raleigh

20 of the 33 municipalities with a population greater than 20,000 people are included in this list.

# 3. NC community populations, according to the 2000 census.

<u>Population</u>	Number of Communities	
<1.000	004	
<1,000	234	
1,000-2,500	118	
2,5000-5,000	82	
5,000-7,500	23	
7,500-10,000	21	
10,000-15,000	14	
15,000-25,000	25	
25,000-50,000	8	
50,000-100,000	9	
100,000-250,000	4	
250,000-500,000	1	
>500,000	1	

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