



**Warnell School of Forestry
& Natural Resources**
UNIVERSITY OF GEORGIA



**COMMUNITY FORESTRY
& ARBORICULTURE**

The New University of
Georgia Community
Forestry &
Arboriculture
Emphasis: Bringing
Community Forestry to
the Next Generation of
Professionals

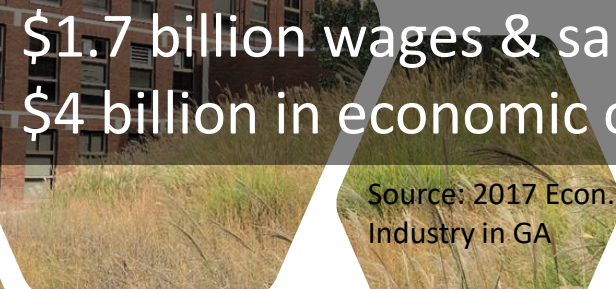
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Georgia Urban Forestry Direct & indirect economic activity (2017)

- 46,209 jobs
- \$1.7 billion wages & salaries
- \$4 billion in economic output



Source: 2017 Econ. Ben. Forest
Industry in GA

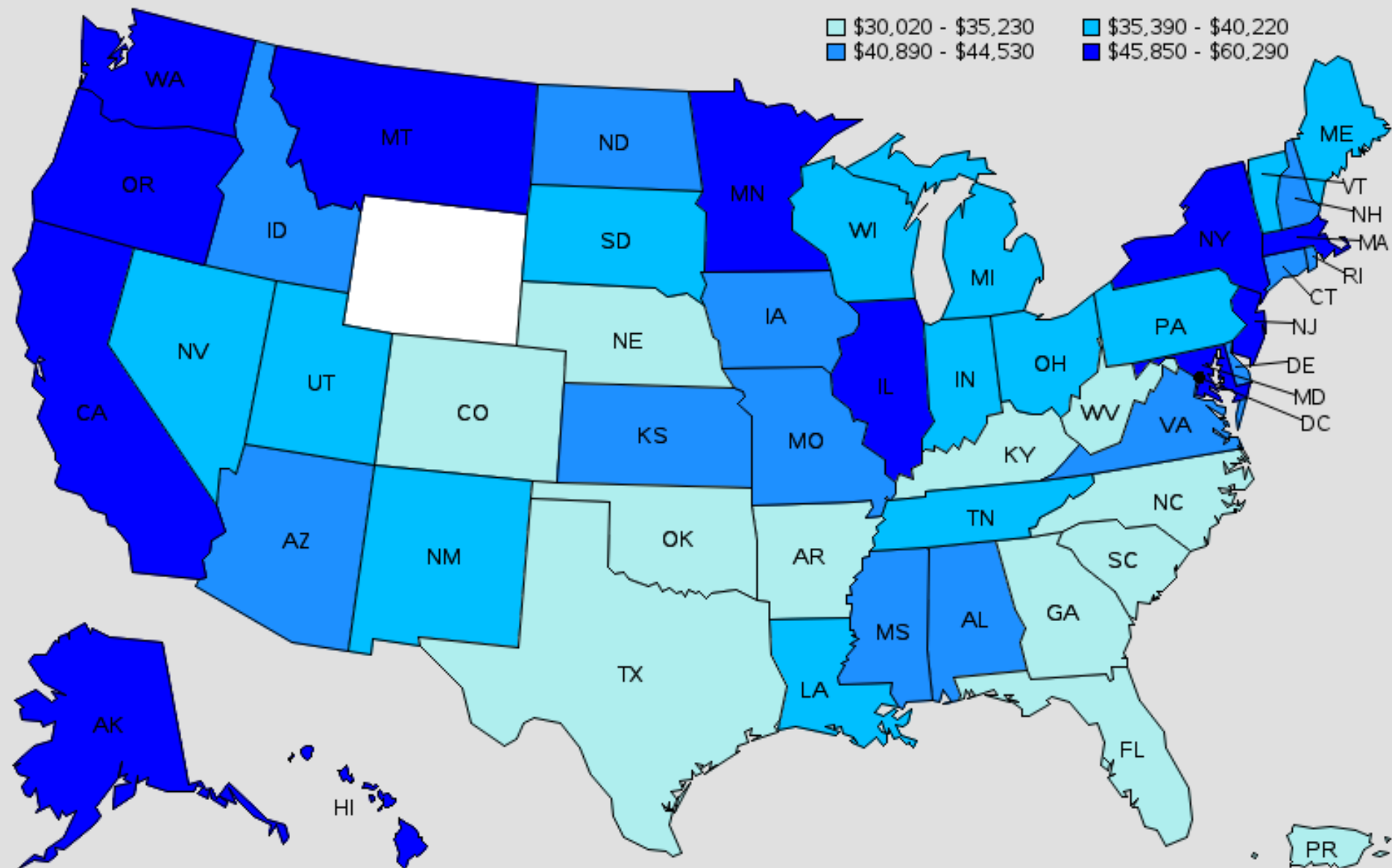
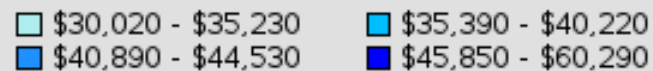
Tree Care Sector Employment in Georgia (May 2018)

Code	Title	Employment	Mean Annual Wage
37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers	3,460	\$46,990
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	660	\$36,960
37-3011	Landscaping and Groundskeeping Workers	23,030	\$28,900
37-3013	Tree Trimmers and Pruners	1,080	\$30,020
37-3019	Grounds Maintenance Workers, All Other	220	\$47,100

Source: Bur. Labor Stats. Occ. Empl. Stats.

Annual mean wage of tree trimmers and pruners, by state, May 2018

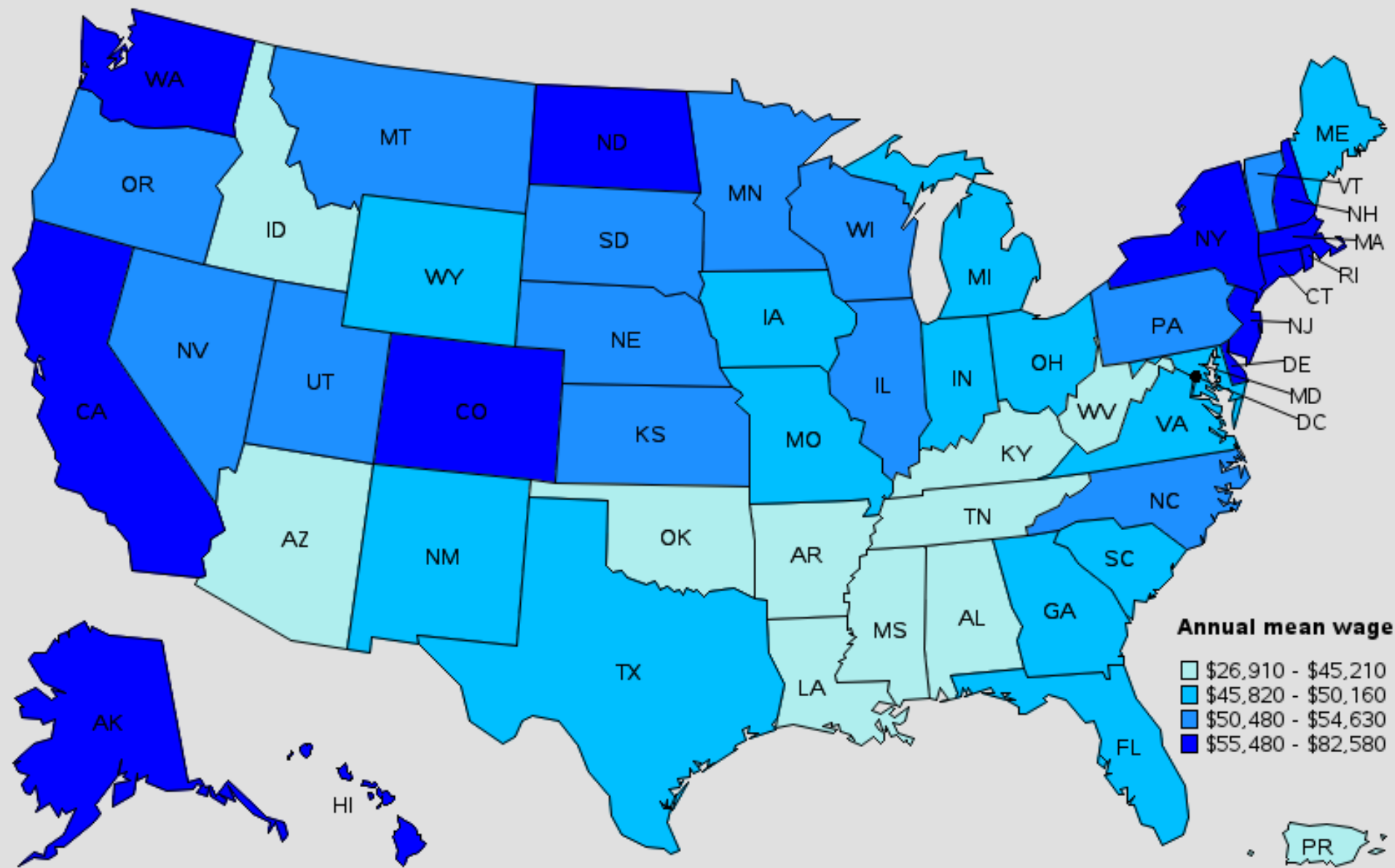
Annual mean wage



Blank areas indicate data not available.

Source: Bur. Labor Stats. Occ. Empl. Stats.

Annual mean wage of first-line supervisors of landscaping, lawn service, and groundskeeping workers by state, May 2018



Blank areas indicate data not available.

Source: Bur. Labor Stats. Occ. Empl. Stats.

Common Knowledge

- Shortage of skilled workers in the tree care industry
- Need for increased awareness of the career path



TCIA
Workforce
Development
Locations:

Greater Atlanta
Tree Care Sector
Partnership



Looking towards
the future

Scanning the Horizon for the Future of Arboriculture

By David N. Bengston

Introduction

The “Great Acceleration” is upon us, an era of rapid and transformative change (Steffen et al. 2015). According to some observers, we have reached a historic inflection point in which multiple mega-trends—such as technological disruption, economic globalization, and climate change—are accelerating and interacting at the same time. Rapid social, technological, environmental, economic, and political change is the broad context for arboriculture in the 21st century. The recent past and business-as-usual thinking may not be good guides for navigating this turbulent future.

Faced with rapid, widespread, and accelerating change, what can we do to thrive and build resilience in our organizations and professional lives? The Forest Futures Horizon Scanning Project at the US Forest Service is an effort to proactively respond to the increasing pace and complexity of change, to “look beyond the headlights” in order to help the Forest Service and its partners better anticipate and prepare for change. Horizon scanning is a process for identifying early indicators of change in the external environment of an organization or field. The focus is on external change because most of us are already aware of internal developments through reading newsletters, magazines like *Arborist News*, and attending conferences. But external developments can blindside us if we’re not paying attention.

Horizon scanning is one of the core tools of Futures Research (Bengston 2013) and is widely practiced in many corporations, every branch of the US military, and throughout the intelligence community. The basic idea is that although we can’t predict the long-term future because of fundamental uncertainties, there are clues out there—indicators of change—if we search for them. Indicators of change include emerging issues, trends, counter-trends, and broad driving forces that could shape the future. Effective horizon scanning serves as an early warning system to identify potential opportunities and threats, enables decision makers to plan accordingly and take timely action, and fosters a forward-looking culture throughout an organization.

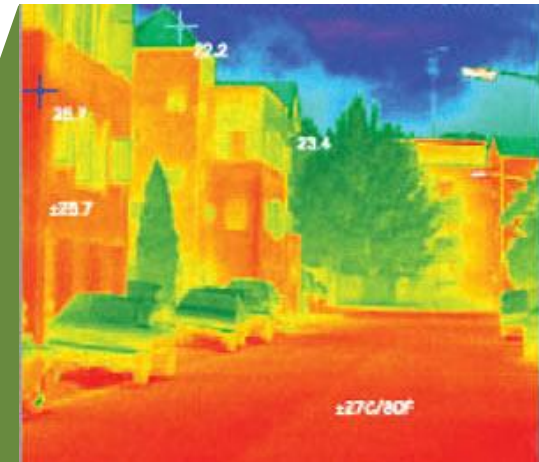
The Forest Service’s Forest Futures Horizon Scanning Project was designed in collaboration with futurists at the



Bosco Verticale (Vertical Forest) is a pair of residential towers in the Porta Nuova district of Milan, Italy. Photo by Patrick Bomboert, <https://www.flickr.com/photos/capture-creation/23388324221>.



Researched on
the Internet



Signals of
change

A professional view

- Environmentally friendly equipment
- Professionalism
- Training
- Youth education
- Diversity
- Recruiting
- Collaborations

A Membership View on the Future of Arboriculture and ISA

By Cecil Konijnendijk, ISA Board of Directors

Arboriculture and urban forestry are changing rapidly, not in the least because of changes in society. But what are these changes, and what lies ahead in the future? What is ISA's role in preparing the industry for things to come? These are some of the questions addressed in a series of linkage activities with members and components carried out by the ISA Board of Directors (BoD) during the past years. This article highlights some of the findings so far and reports from recent linkage activities at the ISA Annual Conference and Tradeshow in Knoxville, Tennessee.

Ownership Linkage

During the past few years, the ISA BoD has stepped up its interactions with the wider ISA membership. A specific ownership linkage committee was set up for this

purpose. This committee, chaired by current President-Elect Anne Beard, has organised a series of workshop sessions with different parts of the ISA membership (our 'owners'), such as the Council of Representatives, students, participants in the Women in Arboriculture breakfast, and participants in the International Tree Climbing Championships. These sessions have taken different forms, from facilitated focus-group style discussions, to surveys, but all have addressed a similar set of questions about the future and needs of our profession and the role ISA can play. The recent Annual Conference and Tradeshow in Knoxville, TN hosted ownership linkage sessions with non-US ISA members (representing five different continents) and with component representatives.





Connecting
the dots



UGA Warnell School of Forestry &
Natural Resources

Community Forestry & Arboriculture

Backstory...

Tree management
class (Coder,
Morris)

Certificate

Supportive
administration

Stakeholder
support

Accepted as
program by UGA:
March 2018

COFA starting
date: Fall 2019



UGA COFA

- First two years are non-professional courses
- Area of Emphasis within the Natural Resource Management & Sustainability undergraduate major
- Degree: Bachelor of Science in Forest Resources
- Prepares students for careers in community natural resources management.

Graduates may work as:

Tree, forest, and environmental advocates for interest groups and nongovernmental organizations

Municipal foresters

Commercial forest health care providers

Community planners, designers, and consultants

Commercial tree health care and estate management firms

Municipal governments

Non-governmental organizations

Utility providers



Related minors and certificate programs

Environmental soil science minor

Geography minor

Horticulture minor

Environmental design minor

Water resources certificate

Environmental education certificate

Sustainability certificate

Urban and metropolitan studies certificate

GIS certificate

Courses

Field methods	Soils and hydrology	Economics of renewable resources	Society and natural resource
Urban tree management I	Ecology of natural resources	Spatial analysis	Community soils & site development
Dendrology	Practicum (Maymester)	Urban tree management II	Internship (Summer)
Community forest management	Senior project	Renewable resource policy	

Examples of Options/Electives

Sociology of
urban life

Informatics and
data analysis

Computational
plant science

Urban ecology

Introduction to
business
management

History of urban
planning

Intermediate
microeconomics

Environmental
design uses of
GIS

Integrated pest
management

Land use
planning

Plants of the
South

Designing
healthy places

Business
Spanish

Community soils & site development

Climate, microclimate impacts of development

Characteristics & classification of urban soils

Correction of soil physical limitations

Soil chemistry and biology

Pesticides and contaminants

Planning and site development

Tree protection

Tree production and transplanting

Root management

Fertilization and irrigation



Community forest management

Community forest resilience & systems

Inventories and data-based decision-making

Simulation modeling

Risk management

Right-of-way management

Urban ecology & silviculture

Planning

Governance



Practicum (3 weeks)

Tree measurements

Site assessment and landscape design

Working with stakeholders/clients (Atlanta)

Tree production & selection

Site preparation

Large tree installation

Tree inventory

Health and vigor assessment

Working in trees/ safety (Atlanta)

Utility right-of-way management (Atlanta)

Large equipment

Residential tree care (training, cable, soils)
(Charlotte, NC)

Internship

- Must be approved and students must receive permission to enroll in course before starting work experience (1 credit hour for each 100 work hours)
- Internship approved by internship coordinator for COFA
- Generally 8 weeks, full time, paid
- YouTube Videos:
<https://www.warnell.uga.edu/undergraduate/alternative-study/internships>



How can
you help?

- Students
- Internships
- Funding for teaching equipment
- Demonstrations
- Guest speaking in classes
- Be advocates!



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Please take a brochure

Thanks

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