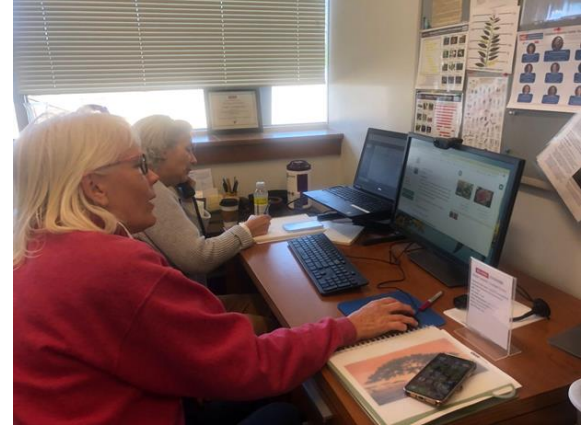


Extension Horticulture Program

2023 Impacts and Updates



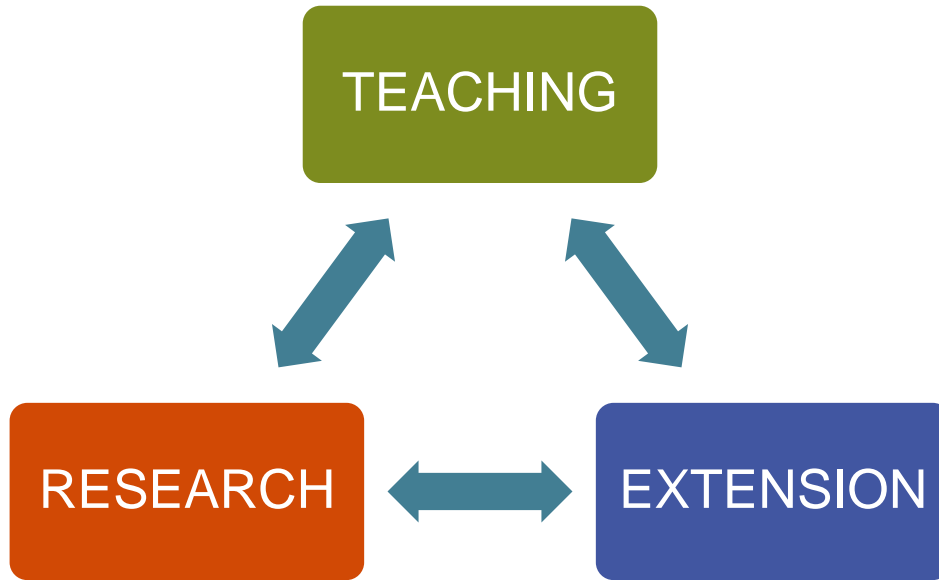
Matt Jones

Extension Agent - Horticulture

What is NC Cooperative Extension?

A Brief Refresher

Land-Grant University Model



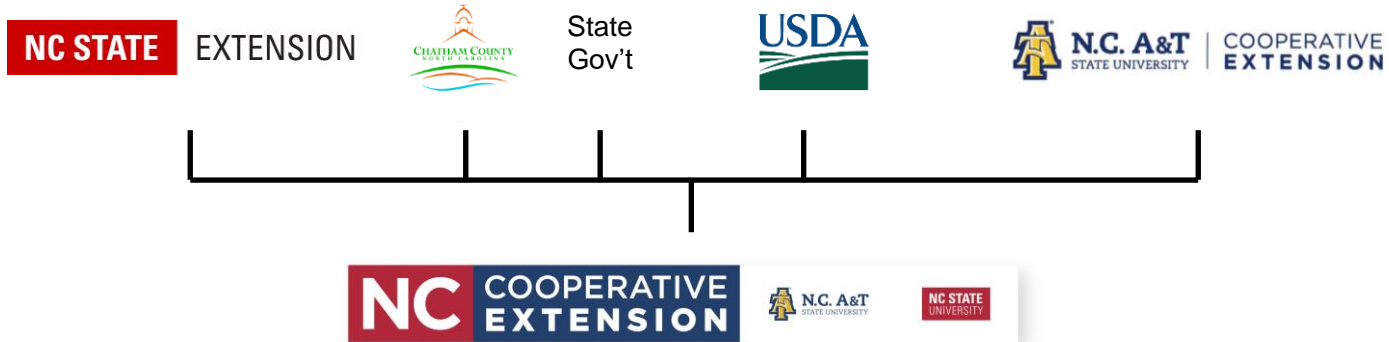
Progress Through Partnerships



- **Federal, State, County Funding**
- **State Match to Federal Capacity Dollars – 1:1**
- **Unique Partnership with Counties**

Partnering for Prosperity

North Carolina is home to two land-grant institutions: NC State University and N.C. A&T State University. The universities work alongside federal, state and local governments to form a strategic partnership called **N.C. Cooperative Extension.**



Core Program Areas

Extension improves the lives of North Carolinians through programs and partnerships focused on agriculture, food and nutrition, and 4-H youth development.

Agriculture



Extension keeps North Carolina's \$100+ billion agriculture industry growing and sustainable by connecting growers with research-based information and technology.

Food and Nutrition



Extension helps people make healthier decisions, reduce their risk of chronic disease and live better lives. Through a range of FCS efforts, our experts promote a lifetime of good health.

Youth Development



Extension's 4-H program is the largest youth development organization in North Carolina. Through clubs and camps, 4-H equips hundreds of thousands of youth with life skills for success.

Evolving and Expanding

Extension was created over 100 years ago to help bring agricultural research to farmers and rural areas. In the 21st century, we have grown to encompass much more without losing sight of our mission.

We continue to evolve and innovate to meet the needs of the diverse audiences we serve statewide.



Lawns + Gardens



**Disaster Planning
+ Response**



**Environmental +
Natural Resources**



**Homes +
Families**



**Community +
Rural Development**



Horticulture Outreach Program

Chatham County

Outreach and Education for...

Commercial Nurseries



Green Industry Professionals



Home & Community Gardeners



Master Gardener Volunteers

NC STATE EXTENSION
Master Gardener | Chatham County



County Situation

Population
Growth

Environmental Impacts
Agricultural Impacts

Rural
Character

Program Goals

- 1) Promote biodiverse & ecologically-functional landscapes
- 2) Promote home food production and composting

Landscape & Green Industry Conference 2023

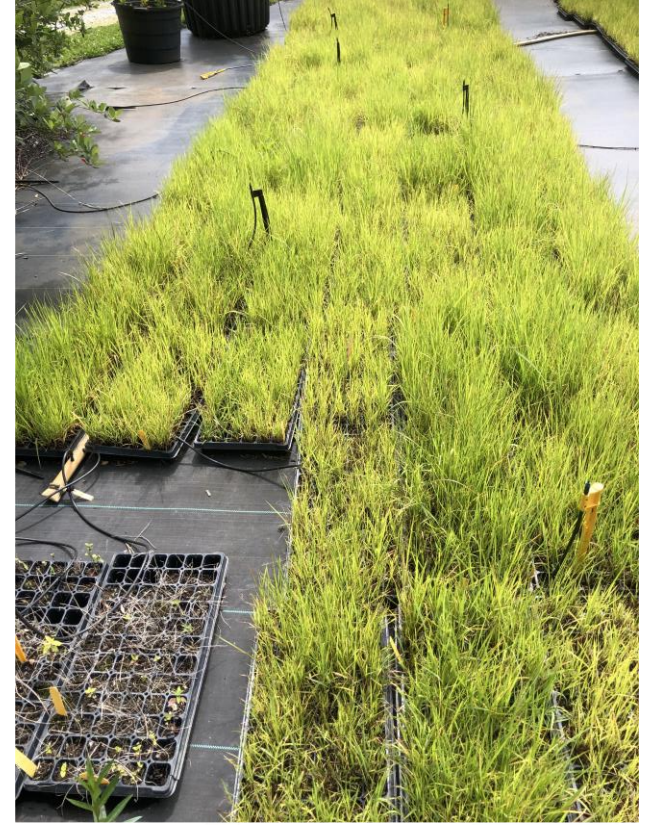
- **Extension Resources and Underutilized Landscape Plants** – Matt Jones and Amanda Wilkins
- **Tree and Shrub Boot Camp** – Travis Black
- **What Can We Do to Make Plants More Resilient in a Warming World?** – Dr. Barb Fair
- **Annuals and Perennials for Phytophthora-infested Landscape Beds** – Ella Reeves
- **Business Purchasing and Succession** – Dana Massey and Paige Moody
- **Licensed Applicator Responsibilities** – Tyler Harran



66

9 CEUs

Nursery and Landscape Consultations



Extension Gardener Workshops and Webinars

- Vegetable Seed Starting (2x)
- Warm Season Crops for Vegetable Gardens (2x)
- Pest, Disease and Weed Management for Veggies (2x)
- What's the Matter with My 'Mater? (2x)
- Identification of Trees of the Piedmont
- **Native Perennials for the Home Garden**
- Fundamentals of Composting



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Other Workshops and Events

- Native Plants for Creeks and Streams
- Sandhills Turf and Ornamental Spring and Fall Meetings
- Installation and Maintenance of Wetland Plants
- Aquatic Weed Management (2x)
- Be a Winner at the NC State Fair!
- Harvest Delights: Growing and Cooking Fall Vegetables
- Pasture Weed ID and Management
- Numerous community groups
- EMG training around the state



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Fearrington Village Forest Walk



Joint Aquatic Weed ID Workshops w/ Randolph County



NC STATE

EXTENSION

Master Gardener | Chatham County

2023 Master Gardener Volunteer Output

61

Active Volunteers

3,440

Hours Volunteered

15

New Students

1,720

Client Contacts

\$103,028

Volunteer Value

EMG Core Training

Volunteer Skills

- Interactive, hands-on workshops
- Deepen and apply your knowledge
- Find research-based information/resources
- Diagnostic skills and problem solving

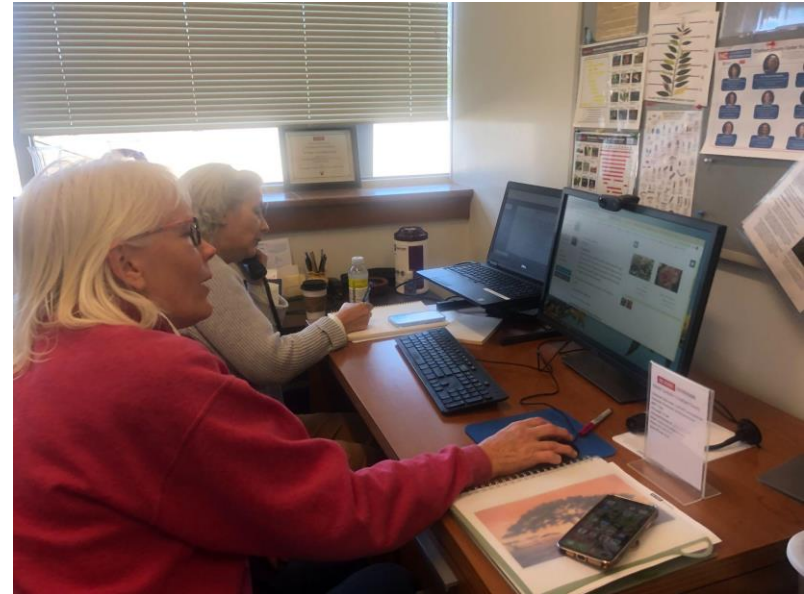


5. EMG Core Training

MGV Class	Date	Time
Orientation; Extension History, Resources, & Research Methods	Sept. 12	9:30 AM – 3:30 PM
Botany and Plant Identification	Sept. 19	
Diseases & Disorders of Plants	Sept. 26	
Beneficial & Pest Insects of Plants	Oct. 3	
Weed Ecology & Management	Oct. 10	
Soils & Fertility Management	Oct. 17	
Diagnostics & Integrated Pest Management	Oct. 24	
Final Review & Exam	Oct. 31	
Graduation Ceremony and 2022 Class Intern Project Presentations	Dec. 13	

New Initiatives

- New Plant Clinic Operations Manual and Training Program
- Therapeutic Horticulture Team
- **Chatham Park and new resident brochure and website**
- Demonstration Garden Signage
- Tomato Variety Trial...Trial



Tomato Variety Trial

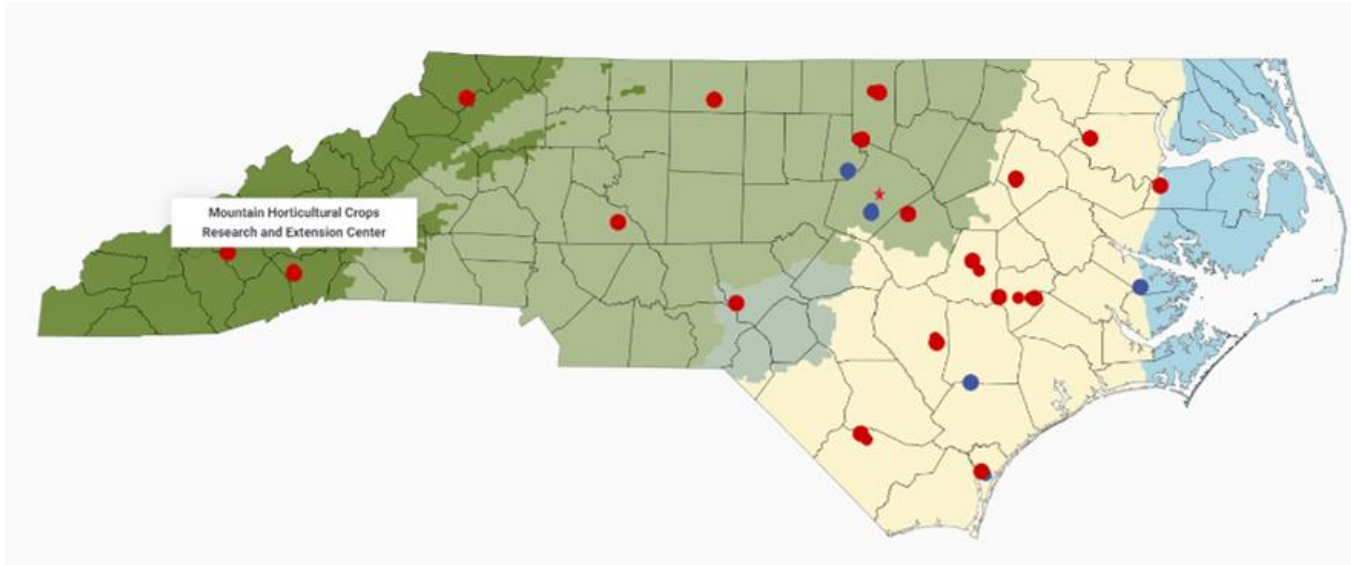
NC STATE

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Tomato Trial Background

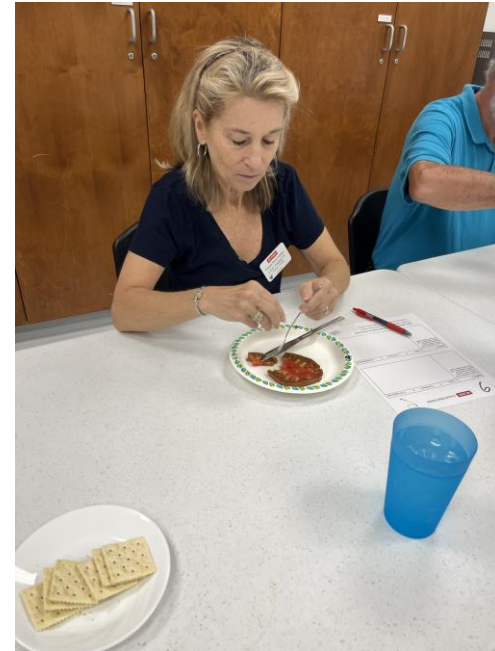


NC State University and NC Department of Agriculture
Research Stations & Field Laboratories

Tomato Variety Trail Objectives

- Assess performance of three new tomato cultivars in a home garden setting.
 - Yield
 - Harvest window
 - Pest and disease tolerance
- Compare taste, aroma, and culinary appearance
- Capture MGV growing experiences, volunteer satisfaction
- Evaluate research trial itself to prepare for expanded county participation in 2024.

Tomato Trial Tasting



Grafted Tomato Plant Sale

- Bacterial-wilt resistant tomato plants
- Raised over \$4,000 to support outreach and education programs

NC STATE EXTENSION

Master Gardener | Chatham County





- Joint Pilot Program between Chatham and Durham Counties
- Once a month weekend program
- Competitive application process
- Working directly with regional conservation organizations
 - Complete an Impact Project



Keep
Durham
Beautiful



NORTH CAROLINA
BOTANICAL
GARDEN



NEW HOPE
AUDUBON



NORTH CAROLINA
Museum of
Natural Sciences

ROCKY RIVER HERITAGE FOUNDATION



- Joint Pilot Program between Chatham and Durham Counties
- Once a month weekend program
- Competitive application process
- Working directly with regional conservation organizations
 - Complete an Impact Project

Date	Topic	Instructor / Logistics
January 13	Welcome & Orientation	Instructor: Dr. Lise Jenkins, Program Chairperson Location: Chatham County Extension Center How this works - logistics Observations & the scientific method Your Impact Project
HABITAT MODULE		
January 20	Forest Systems	Instructor: Johnny Randall, Conservation, NC Botanical Garden Location: NC Botanical Garden Characteristics of piedmont forests Individual vs system perspective Impact of light, soils, disturbance, land use, and climate on forests Services provided by forests
February 17	River Systems	Instructor: Brena Jones, Aquatic Wildlife, NC Wildlife Resources Commission Location: Chatham County Extension Center Components of a river Types of creeks, streams, and rivers comprising piedmont watersheds Mussels: something small to understand something big River services, disturbance, and impact
March 16	Piedmont Climate / Geology	<u>Climate</u> Instructor: Dr. Walt Robinson, Climate & Society, NC State University Location: Zoom Piedmont's existing climate Impact of climate change <u>Geology</u> Field trips - multiple choices, size limits, 1-2 hr hike, meet at trail head, locations around our region
FOOD WEB MODULE		
April 20	Botany	Instructor: Matt Jones, Agent, Chatham County Extension Location: Stan M. Adams Training Facility, 2832 Big Woods Rd, Chapel Hill Plant taxonomy Anatomy and physiology Converting the sun's energy . foundations of the food web How to identify plants
June 1	Insects	Instructor: Dr. Ashley Troth, Agent, Durham County Extension Location: Durham County Extension Center Insects anatomy & life cycles Identification & classification Next step in the food web A brief history of time and how insects became specialists vs generalists

Regional Landscape and Green Industry Conferences

Multi-County Strategy

Lee County – January

- Jan 9 – Marketing for Landscape Businesses
- Jan 11 – Bookkeeping for Landscape Businesses

Moore County – Feb. 8th

- Soil Preparation for Landscapers
- Climate Change and Tree Species Selection
- Diseases of the Cupressaceae
- Scale Insects of Woody Ornamentals
- Aquatic Weed Management

Chatham County – Feb. 23rd

- Next Slide

Randolph County – June 5th

- At NC Zoo – including greenhouse tours
- Greenhouse-focused topics: nutrients, IPM, etc.

Lee County – November TBD

- Aquatic Weed Management

Landscape & Green Industry Conference 2024

- **Extension Resources and Perennials as Shrub Alternatives** – Matt Jones and Amanda Wilkins (NCSU)
- **Mole and Vole Management** – Marshall Warren (NCSU)
- **Tree Risk Assessment** – Dr. Barb Fair (NCSU)
- **Organic Lawn Care** – Dr. Grady Miller (NCSU)
- **Tree Management in Urban Settings** – Travis Black (Bartlett)

Consumer Horticulture Programs

- Winter Tree ID (Jan)
 - Veg. Seed Starting (Feb.)
 - Lawn Care (Apr./May)
 - Easy Fruits for the Home Garden (Apr/May?)
 - Veggie Series (4x May-Aug)
 - Be a Winner at the NC State Fair (July)
 - Native Perennials (Sept)
 - Native Shrubs (Sept)
 - Herb Symposium (Sept 20)
 - Spring Flowering Bulbs (Oct)
 - Composting (Nov)
- EMG -Taught**
- Companion Planting
 - Houseplants
 - Tool Sharpening
 - Firewise Landscaping

Questions?

Thank you!