What is SARE?

Since 1988, the Sustainable Agriculture Research & Education (SARE) program has been the go-to USDA grants and outreach program for farmers, ranchers, researchers and educators who want to develop innovations that improve farm profitability, protect water and land, and revitalize communities. To date, SARE has awarded over $360 million to more than 8,174 initiatives.

SARE is grassroots with far-reaching impact

Four regional councils of expert practitioners set priorities and make grants in every state and island protectorate.

SARE communicates results

SARE shares project results by requiring grantees to conduct outreach and grower engagement; and by maintaining an online library of practical publications, granteeproduced information products and other educational materials.

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SARE: Advancing the Frontier of Sustainable Agriculture in...

North Carolina

Project Highlight: Local Food Systems as a Means of Positive Change

For 10 years, the Appalachian Sustainable Agriculture Project (ASAP) worked to evaluate the impacts of local food systems on farm profitability and viability, production practices, distribution networks and the health of local communities. Their belief is that when the distance between consumer and producer decreases, transparency increases and drives changes in the way food is produced. Their decades-long work, however, led to unanswered questions, such as how are consumer values and behaviors impacting the characteristics of the local food system? What are the unintended consequences of localizing food production and consumption?

To find answers, ASAP has received three SARE grants since 2011 to examine the impacts of food system localization on local economies, farm profitability, production practices and health. In their first project they analyzed data and developed a working theoretical framework to understand how and why local food systems can be a means of creating positive food system change. Their two additional projects are 1) studying the impact of farmers’ market experiences on participants and their role in building a base of local food and farm supporters, and 2) quantifying the larger economic impact of farmers’ markets and looking more closely at their relationship to larger local food system dynamics.

For more information on these projects, see sare.org/projects, and search for project numbers LS11-239, LS14-260 and LS17-285.

SARE in North Carolina

southern.sare.org/sare-in-your-state/north-carolina

$14,888,229 in total funding

235 grant projects

(since 1988)

For a complete list of grant projects state by state, go to www.sare.org/state-summaries
## SARE Grants in North Carolina

**Total awards:** 235 grants

- 75 Research and Education
- 17 Sustainable Community Innovation
- 30 Professional Development Program
- 56 Farmer/Rancher
- 42 Graduate Student
- 15 On Farm Research/Partnership

**Total funding:** $14,888,229

<table>
<thead>
<tr>
<th>Category</th>
<th>Funding</th>
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</thead>
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<tr>
<td>Research and Education</td>
<td>$11,160,018</td>
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<tr>
<td>Sustainable Community Innovation</td>
<td>$2,424,454</td>
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<tr>
<td>Professional Development Program</td>
<td>$402,069</td>
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<tr>
<td>Farmer/Rancher</td>
<td>$459,039</td>
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<tr>
<td>Graduate Student</td>
<td>$222,532</td>
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<tr>
<td>On Farm Research/Partnership</td>
<td>$220,117</td>
</tr>
</tbody>
</table>

Find a complete list of projects on page 3.

## SARE's Impact

- 53 percent of producers report using a new production technique after reading a SARE publication.
- 79 percent of producers said they improved soil quality through their SARE project.
- 64 percent of producers said their SARE project helped them achieve higher sales.

Learn about local impacts at: [southern.sare.org/sare-in-your-state/north-carolina](http://southern.sare.org/sare-in-your-state/north-carolina)

## Contact Your SARE State Coordinator

SARE sustainable ag coordinators run state-level educational programs for Extension and other ag professionals, and many help grant applicants and recipients with planning and outreach. Visit [southern.sare.org/state-pages/north-carolina](http://southern.sare.org/state-pages/north-carolina) to learn more.

**Sanjun Gu**  
North Carolina A&T State University  
(336) 285-4954  
sgu@ncat.edu

**Chris Reberg-Horton**  
North Carolina State University  
(919) 515-7597  
chris_reberg-horton@ncsu.edu

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For detailed information on SARE projects, go to [www.SARE.org](http://www.SARE.org)

SARE is funded by the USDA’s National Institute of Food and Agriculture (NIFA).

This report includes summaries of competitive grant programs only. Some competitive grant programs that are no longer offered may be included or excluded from the totals in this report depending on the grant program and SARE region.
AGRICULTURE PROJECTS FUNDED IN NORTH CAROLINA
by USDA’s Sustainable Agriculture Research and Education (SARE) Program

North Carolina has been awarded $14,888,229 grants to support 230 projects, including but not limited to, 70 research and/or education projects, 30 professional development projects and 56 producer-led projects. North Carolina has also received additional SARE support through multi-state projects.

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| LS22-365   | Regional Evaluation of Cucumber High Tunnel Trellising Systems                | $158,000     | Gena Moore  
Carolina Farm Stewardship Association  
Karen McSwain  
Carolina Farm Stewardship Association |
| LS22-376   | North Carolina Small Ruminant Improvement Program                            | $49,996      | Andrew Weaver  
North Carolina State University  
Dr. Emily Cope  
North Carolina State University  
Johnny Rogers  
North Carolina State University |
| LS22-384   | Advancing Conservation through Educating and Empowering Women Farmers and Landowners in the Southeast | $50,000      | Gabrielle Roesch-McNally  
American Farmland Trust  
Lillian Alexander  
Black Family Land Trust, Inc.  
Courtney Owens  
Kentucky State University Cooperative Extension |
| LS21-357   | Southern Pasture-Raised Beef: From Farm to Table to Us                       | $380,203     | Dr. James Bain  
Duke University School of Medicine  
Dr. Alan Franzluebbers  
North Carolina State University  
Dr. Matt Poore  
North Carolina State University  
Dr. Sierra Young  
North Carolina State University  
Dr. Stephan van Vliet  
Utah State University |
| LS21-356   | Securing Land Tenure Rights for Heirs Property Owners                         | $399,965     | Savi Horne  
Land Loss Prevention Project  
Billy Lawton  
Center Hill Farms  
Lorette Picciano  
Rural Coalition  
Dr. Robert Zabawa  
Tuskegee University, College of Agriculture, Environment and Nut |
| LS21-351   | Saving Seed for Resilient Local Systems: An online, video based course on saving seed from the Utopian Seed Project | $49,775      | Chris Smith  
The Utopian Seed Project |
Farmer Direct Sales During and After COVID-19

**LS21-347**

$49,950

Molly Nicholie
Appalachian Sustainable Agriculture Project (ASAP)
Duane Adams
The AB-Tech Western Regional Small Business Center
Amy DeCamp
Appalachian Sustainable Agriculture Project (ASAP)
Amy Marion
Appalachian Sustainable Agriculture Project (ASAP)
Craig Mauney
NC State Extension: Mountain Horticulture Crops Research and Ext
David Smiley
Appalachian Sustainable Agriculture Project (ASAP)

Building Resilient and Successful Farm Businesses in the Southern Appalachians

**LS20-323**

$50,000

Cameron Farlow
Organic Growers School

Navigating Financial and Mental Health Crises

**LS20-336**

$299,959

Michelle Osborne
RAFI-USA
Scott Marlow
RAFI-USA
Savi Horne
Land Loss Prevention Project
Robert Maggiani
N. Carolina Agricultural and Technical State University

Development of a Sustainable Cropping System for Industrial Hemp Production by Limited Resource Farmers

**LS20-333**

$229,933

Dr. Beatrice Dingha
North Carolina A&T State University
Dr. Arnab Bhowmik
North Carolina A&T State University
Louis Jackai
N. Carolina Agricultural and Technical State University

Promoting Southeastern Agriculture Resilience with Carbon Farm Planning

**LS20-326**

$50,000

Amanda Egdorf-Sand
NC Foundation for Soil and Water Conservation
Pelayo Alvarez
Carbon Cycle Institute
Anne Coates
Thomas Jefferson Soil and Water Conservation District
Bryan Evans
NC Association of Soil and Water Conservation Districts
Cameron Farlow
Organic Growers School
Laura Lengnick
Cultivating Resilience LLC
Nathan Lowder
USDA Natural Resources Conservation Service Soil Health Division

Small Ruminant Producers Program: A pilot program for small ruminant producers and county agents

**LS20-321**

$31,895

Kingsley Ekwemalor
NC A&T
Dr. Andrea Gentry-Apple
North Carolina Agricultural and Technical State University
Johnny Rogers
North Carolina State University

Cool-season Annual Grass, Grass-Forb, and Grass-Legume Forage Systems for Southeastern Beef Cattle Production

**LS19-310**

$270,708

Deidre Harmon
NC State University

LS18-294 Promoting Adoption of Cover Crops in Southeastern Farming Systems $48,000 Michelle Lovejoy NC Foundation for Soil and Water Conservation

LS18-303 CEFS Long-term Systems Research: Providing the Building Blocks for Resilient Food Production Systems Phase III $100,000 Dr.Chris Reberg-Horton North Carolina State University

LS17-279 Enhancing System Sustainability by Mitigating the Impact of Three Major Constraints to Efficient Cowpea Production and Use: Pests, Pollination and Nodulation $210,000 Dr.Beatrice Dingha North Carolina A&T State University

LS17-280 A Supply Chain Approach to Finding Win-win Sustainable Solutions for Edible But Unharvested Produce $219,971 Rebecca Dunning North Carolina State University Horticulture

LS17-284 Biological Control of Two-spotted Spider Mite on Vegetables $200,000 James Walgenbach NCSU

LS17-285 Growing Local - Phase III $300,000 Charlie Jackson Appalachian Sustainable Agriculture Project

LS15-267 CEFS Long-Term Systems Research: Providing the Building Blocks for Resilient Food Production Systems $300,000 Dr.Chris Reberg-Horton North Carolina State University

LS14-260 Growing Local – Phase II $299,943 Charlie Jackson Appalachian Sustainable Agriculture Project

LS12-247 CEFS Long-Term Systems Research: Providing the Building Blocks for Resilient Food Production Systems $300,000 Dr.Chris Reberg-Horton North Carolina State University

LS12-248 Quantifying the Multiplier Effect: What Sustainable Local Food Systems can Mean to Local Communities $211,000 Drew Marticorena NCSU

LS11-239 Growing Local – Phase I $296,645 Charlie Jackson Appalachian Sustainable Agriculture Project

LS11-246 Saving Endangered Hog Breeds $151,215 Dr.Alison Martin The Livestock Conservancy

LS10-227 Lighting up the black box: Improving legume performance on organic farms by optimizing microbially-mediated plant and soil nitrogen cycling processes. $192,000 Dr.Julie Grossman University of Minnesota

LS09-224 Research and educational support for organic dairy farming in the South $250,000 Dr.Steven Washburn North Carolina State University

LS08-203 Exploiting the organic peanut market: refining production systems for the Southeast $175,000 Mark Boudreau Hebert Green Agroecology, Inc. Dr.Mark Boudreau Hebert Green Agroecology
<table>
<thead>
<tr>
<th>Proposal ID</th>
<th>Title</th>
<th>Funding</th>
<th>PI</th>
<th>Institution</th>
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<tbody>
<tr>
<td>LS08-210</td>
<td>Reduced tillage in organic systems: a soil and water quality imperative</td>
<td>$190,000</td>
<td>Dr. J. Paul Mueller</td>
<td>North Carolina State University</td>
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<tr>
<td>LS08-211</td>
<td>A multi-disciplinary approach to improve the environmental performance of niche pork production systems and marketability of Heritage swine breeds</td>
<td>$175,000</td>
<td>Sang Hyon Oh</td>
<td>North Carolina A&amp;T State University</td>
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<td>LS07-197</td>
<td>Appalachian grown: Farm to School Project</td>
<td>$170,000</td>
<td>Emily Jackson</td>
<td>Appalachian Sustainable Agriculture Project</td>
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<tr>
<td>LS07-200</td>
<td>Selecting cover crops for diverse functions: an integrated soil management approach for organic strawberry production in North Carolina</td>
<td>$200,000</td>
<td>Dr. Michelle Schroeder-Moreno</td>
<td>North Carolina State University</td>
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<tr>
<td>LS06-193</td>
<td>Grafting Rootstocks onto Heirloom and Locally Adapted Tomato Selections to Confer Resistance to Root-knot Nematodes and other Soil Borne Diseases and to Increase Nutrient Uptake Efficiency in an Intensive Farming System for Market Gardeners</td>
<td>$193,000</td>
<td>Mary Peet</td>
<td>North Carolina State University</td>
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<tr>
<td>LS05-169</td>
<td>Exploiting the Organic Peanut Market: Design of Production Systems for the Southeast</td>
<td>$159,000</td>
<td>Mark Boudreau</td>
<td>Hebert Green Agroecology, Inc.</td>
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<tr>
<td>LS05-173</td>
<td>Microarray Analysis and functional assays to assess microbial ecology and disease suppression in soils under organic or sustainable management</td>
<td>$250,000</td>
<td>Dr. Frank Louws</td>
<td>NC State University</td>
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<td>LS05-178</td>
<td>Sustainability indicators as management tools to guide farmers, scientists, policy makers and the general public</td>
<td>$250,000</td>
<td>Jon Brandt</td>
<td>North Carolina State University</td>
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<td>LS04-158</td>
<td>N2-fixation and weed competition: breaking the connection between crops and weeds</td>
<td>$248,000</td>
<td>Michael Burton</td>
<td>NCSU -- Crop Science Department</td>
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<td>LS04-161</td>
<td>Evaluation of Beneficial Insect Habitat for Organic Farms</td>
<td>$72,539</td>
<td>David Orr</td>
<td>North Carolina State University</td>
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<tr>
<td>LS04-165</td>
<td>Renewing the Agriculture of the Middle: A Planning grant request to develop a Southern Strategy</td>
<td>$15,500</td>
<td>Edna Rodriguez</td>
<td>Rural Advancement Foundation International - USA</td>
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<td>LS03-146</td>
<td>Appalachian Grown: Toward Regional Community-based Food Systems</td>
<td>$154,030</td>
<td>Charlie Jackson</td>
<td>Appalachian Sustainable Agriculture Project</td>
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<td>LS03-154</td>
<td>Examining pasture-based dairy systems to optimize profitability environmental impact, animal health and milk quality</td>
<td>$226,903</td>
<td>Dr. Steven Washburn</td>
<td>North Carolina State University</td>
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<tr>
<td>LS02-132</td>
<td>Cover Cropping and Residue Management for Weed Suppression, Soil Fertility and Organic Crop Production</td>
<td>$99,117</td>
<td>Keith Baldwin</td>
<td>NC A&amp;T State University</td>
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<tr>
<td>LS02-134</td>
<td>The Importance of Genetics: Biological fitness and productivity in range-based systems comparing standard turkey varieties and industrial stocks</td>
<td>$182,386</td>
<td>Marjorie Bender</td>
<td>American Livestock Breeds Conservancy</td>
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<tr>
<td>Project Number</td>
<td>Description</td>
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<td>Principal Investigator(s)</td>
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<tr>
<td>LS01-120</td>
<td>Long-Term, Large-Scale Systems Research Directed Toward Agricultural Sustainability</td>
<td>$230,000</td>
<td>Dr. J. Paul Mueller, North Carolina State University</td>
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<tr>
<td>LS01-122</td>
<td>The Importance of Genetics: Assessing the Immunological Health of Standard Turkey Varieties vs. Industrial Turkey Stocks and Its Implications for Sustainable Turkey Production Systems</td>
<td>$18,052</td>
<td>Donald Bixby, American Livestock Breeds Conservancy</td>
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<tr>
<td>LS01-128</td>
<td>Influence of microbial species and functional diversity in soils on pathogen dispersal and ecosystem processes in organic and conventional agroecosystems</td>
<td>$167,842</td>
<td>Jean Ristaino, North Carolina State University</td>
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<td>LS00-109</td>
<td>Increasing Growers’ Quality of life through Direct Marketing: The Role of Farmers’ Markets and Consumer Supported Agriculture</td>
<td>$45,000</td>
<td>Susan Andreatta, University of North Carolina at Greensboro William Wicklife, II, North Carolina State Cooperative Extension</td>
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<tr>
<td>LS00-110</td>
<td>The Impact of Agricultural Systems on Soil Quality and Sustainability</td>
<td>$191,263</td>
<td>Mary Barbercheck, North Carolina State University</td>
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<tr>
<td>LS98-091</td>
<td>Development of Decision Support Systems for Improvement of Silvicultural Practices on Farm-Based Non-Industrial Private Forests</td>
<td>$26,204</td>
<td>Fredrick Cubbage, Forestry Department, North Carolina State University</td>
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<tr>
<td>LS98-094</td>
<td>A Model for Long-Term, Large-Scale Systems Research Directed Toward Agricultural Sustainability</td>
<td>$256,604</td>
<td>Dr. J. Paul Mueller, North Carolina State University</td>
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<tr>
<td>LS97-085</td>
<td>Impacts on Agricultural Sustainability from Structural Change in Peanut, Poultry, Swine and Tobacco Production Systems</td>
<td>$174,858</td>
<td>Hal Hamilton, Center for Sustainable Systems</td>
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<tr>
<td>LS97-086</td>
<td>Equal Access to Agriculture Programs and Opportunities</td>
<td>$151,290</td>
<td>David Harris, Land Loss Prevention Project</td>
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<tr>
<td>LS96-077</td>
<td>Development of Sustainable Cropping Systems for Seedless Watermelon and Fall Lettuce in Rotation with Green Manures</td>
<td>$182,751</td>
<td>M. R. Reddy, NCA &amp; T State University, Natural Resources and Environmental Design</td>
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<tr>
<td>LS95-060.1</td>
<td>Animal Waste, Winter Cover Crops, and Biological Antagonists for Sustained Management of Columbia Lance and Other Associated Nematodes on Cotton</td>
<td>$96,691</td>
<td>Kenneth R. Barker, North Carolina State University</td>
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<tr>
<td>LS95-065</td>
<td>Wildlife Enhancement and Education as a Catalyst in the Widespread Implementation of Sustainable Agriculture Practices (Also listed as AS95-18)</td>
<td>$98,205</td>
<td>Pete Bromley, North Carolina State University</td>
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<tr>
<td>LS94-059</td>
<td>Assessing the Impact of Beneficial Insect Populations on Organic Farms (AS94-013)</td>
<td>$17,735</td>
<td>George Kennedy, North Carolina State University</td>
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**PROFESSIONAL DEVELOPMENT PROGRAM GRANTS**

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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
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<tbody>
<tr>
<td>SPDP22-13</td>
<td>Land Summit Professional Development</td>
<td>$59,206</td>
<td>Dr. Robert Branan, JD&lt;br&gt;North Carolina State University at Raleigh&lt;br&gt;Hannah Dankbar&lt;br&gt;North Carolina State University&lt;br&gt;Chad Poole, PhD, M.S., B.S., P.E.&lt;br&gt;Department of Biological and Agricultural Engineering (NCSU)</td>
</tr>
<tr>
<td>SPDP22-12</td>
<td>Grant-writing training for extension agents and service providers to support underserved farmers</td>
<td>$79,996</td>
<td>Kathleen Liang&lt;br&gt;North Carolina A&amp;T State University&lt;br&gt;Dr. Kenrett Jefferson-Moore&lt;br&gt;NC A&amp;T State University&lt;br&gt;Robyn Stout&lt;br&gt;NC 10% Campaign</td>
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<tr>
<td>ES19-146</td>
<td>Effectively Using Permanent and Temporary Electric Fence Technology: Adviser training to support producers implementing adaptive grazing management</td>
<td>$79,954</td>
<td>Dr. Matt Poore&lt;br&gt;North Carolina State University</td>
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<td>Project Code</td>
<td>Project Title</td>
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<tr>
<td>ES18-140</td>
<td>Training Innovative and Impactful Trainers to Provide Beginning Farmer Support in the Southern Appalachians</td>
<td>$43,450</td>
<td>Cameron Farlow</td>
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<tr>
<td>ES17-134</td>
<td>Moving Regional Food Systems Toward Sustainability: An adaptive and interactive online course in local food system development for NC, SC, and VA Extension agents and other service providers</td>
<td>$79,985</td>
<td>Dr. J. Dara Bloom</td>
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<tr>
<td>SC14-001</td>
<td>Institutionalizing Cover Crop Research and Education in the Southeast</td>
<td>$129,712</td>
<td>Dr. Chris Reberg-Horton</td>
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<tr>
<td>ES14-124</td>
<td>Strengthening University Local Food Systems: Train the Trainer Approach through Extension, Student, and Food Service Collaboration</td>
<td>$78,547</td>
<td>Kathleen Liang</td>
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<td>ES13-115</td>
<td>Building Local Food Systems: Training the Trainers, Peer Collaboration, and Materials Development</td>
<td>$64,113</td>
<td>S. Gary Bullen</td>
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<tr>
<td>ES13-119</td>
<td>Moving the NC Local Food System Toward Sustainability: A Comprehensive Graduate course in Local Food Systems for Cooperative Extension Agents, Specialists, and other Educators</td>
<td>$79,063</td>
<td>Joanna Massey Lelekacs</td>
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<tr>
<td>ES10-103</td>
<td>Building Capacity: Farm to School</td>
<td>$78,303</td>
<td>Emily Jackson</td>
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<td>ES10-104</td>
<td>Back to Basics: Training the Trainers at the Eastern Apicultural Society Conference</td>
<td>$22,313</td>
<td>Dr. David Tarpy</td>
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<td>ES10-105</td>
<td>Multiple Livestock Species Integrated Parasite Management Train-the-Trainer Programs with On-Farm, Computer-based and Traditional Training Sessions</td>
<td>$86,105</td>
<td>Dr. Niki Whitley</td>
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<td>ES09-095</td>
<td>Training the Trainers in Community-based Food Systems: a project-oriented case study team approach</td>
<td>$99,266</td>
<td>Dr. Nancy Creamer</td>
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<td>ES08-090</td>
<td>An agent Training Program in Safe Food Handling &amp; Legal Liability</td>
<td>$77,344</td>
<td>Diane Ducharme</td>
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<tr>
<td>ES08-092</td>
<td>Energy Training for Agricultural Professionals in the Southern SARE Region</td>
<td>$97,684</td>
<td>Mike Morris</td>
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<td>ES08-093</td>
<td>Agritourism Training for Agriculture Professionals</td>
<td>$82,986</td>
<td>Kent Wolfe</td>
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<td>ES06-083</td>
<td>Pasture Pork 101: Comprehensive Agent Training in Pasture-based Hog production</td>
<td>$62,500</td>
<td>Todd See</td>
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<td>ES05-078</td>
<td>Sustainable Production Systems for Range-Reared Standard Turkeys</td>
<td>$109,444</td>
<td>Marjorie Bender</td>
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<tr>
<td>ES05-079</td>
<td>Direct Market Training for Agricultural Professionals</td>
<td>$96,757</td>
<td>S. Gary Bullen</td>
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### Farmer/Rancher Grants

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<th>Project #</th>
<th>Project Title</th>
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<tr>
<td>ES03-065</td>
<td>Building Sustainable Soil Systems</td>
<td>$119,848</td>
<td>Wilfred Cromartie</td>
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<tr>
<td>ES03-066</td>
<td>Producer Managed Efforts in Marketing of Livestock &amp; Livestock Products</td>
<td>$89,400</td>
<td>John O'Sullivan, Cooperative Extension Program</td>
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<tr>
<td>ES01-058</td>
<td>Sustaining Agriculture through Community Partnerships</td>
<td>$49,884</td>
<td>Robin Kohanowich, Central Carolina Community College</td>
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<tr>
<td>ES00-047</td>
<td>Training in Alternative Research Strategies for Sustainable Farming Systems</td>
<td>$101,800</td>
<td>Noah Ranells, NCSU (former staff), Phil Rzewnicki, NC A&amp;T State University, Keith Baldwin</td>
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<tr>
<td>ES99-043</td>
<td>Multimedia Training Resources on Sustainable Greenhouse Vegetable Production</td>
<td>$39,887</td>
<td>Mary Peet, North Carolina State University</td>
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<td>ES98-039</td>
<td>Multi Disciplinary Training on Pasture-Based Dairy Systems – A Sustainable Alternative for the Region</td>
<td>$53,429</td>
<td>Dr. Steven Washburn, North Carolina State University</td>
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<tr>
<td>ES98-040</td>
<td>Grazing Management Training to Enhance the Sustainability of Pasture-Based Beef Production Systems</td>
<td>$31,745</td>
<td>Jim Green, North Carolina State University, Crop Science Dept.</td>
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<td>ES98-042</td>
<td>Training in Agriculture Program (TAP)</td>
<td>$17,890</td>
<td>Dorothy Barker, Operation Spring Plant, Inc.</td>
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<tr>
<td>ES97-014</td>
<td>Southern Region Sustainable Ag Training Consortium</td>
<td>$116,723</td>
<td>Roger G. Crickenberger, North Carolina State University</td>
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<tr>
<td>ES97-025</td>
<td>Building Capacity in Sustainable Agriculture: A Comprehensive Training Program in Organic Farming Systems</td>
<td>$97,500</td>
<td>Dr. Nancy Creamer, North Carolina State University</td>
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<td>LST94-001</td>
<td>Southern Region Sustainable Agriculture Training Consortium (LST96-8)</td>
<td>$199,620</td>
<td>Roger G. Crickenberger, North Carolina State University</td>
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</table>

**FARMER/RANCHER GRANTS**

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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
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<tbody>
<tr>
<td>FS21-337</td>
<td>Establishing and Grazing Native Warm Season Grass: How Average Daily Gain and Internal Parasite Burden are Affected in Weaned Lambs</td>
<td>$2,723</td>
<td>Lee Holcomb, LeeDer Farm</td>
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<td>FS19-313</td>
<td>Bee Pollen Identification for Increased Sustainability</td>
<td>$9,938</td>
<td>Ryan Higgs, Blue Ridge Apiaries</td>
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<tr>
<td>FS18-305</td>
<td>Growing Upland Rice for the Local Food Market</td>
<td>$9,773</td>
<td>Gregory Chatham</td>
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<td>FS18-307</td>
<td>Weed Control Among Brambles: Biodegradable paper barrier or plastic barrier?</td>
<td>$3,050</td>
<td>Danielle Crocker</td>
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<tr>
<td>FS13-264</td>
<td>Pastured Rabbit Integrated Farming Project</td>
<td>$2,000</td>
<td>Michelle Bernard, Spellcast Farm</td>
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<tr>
<td>Project Code</td>
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<td>FS13-265</td>
<td>Sustainable Forages as an Alternative to Supplemental Feeding</td>
<td>$9,798</td>
<td>Ryan Higgs</td>
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<td>FS13-268</td>
<td>Closed Loop Mushroom Production on 100% Waste Substrate</td>
<td>$7,623</td>
<td>Joseph Allawos</td>
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<td>Asheville Fungi</td>
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<td>FS13-274</td>
<td>Comparing Season Extension Mechanisms on Winter Green Production in the Southern Appalachian Mountains</td>
<td>$3,737</td>
<td>Paul Littman</td>
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<td>Ivy Creek Family Farm</td>
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<td>FS12-260</td>
<td>Encouraging Expanded Organic Sweet Potato Production in North Carolina</td>
<td>$15,000</td>
<td>John Kimber</td>
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<td>NC SweetPotato Commission Foundation</td>
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<td>FS11-252</td>
<td>Impact of Supplemental Feed Type on Winter Survival of Honey Bee Colonies</td>
<td>$9,957</td>
<td>Barry Harris, Jr.</td>
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<td>Silver Spoon Apiaries, Inc</td>
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<td>FS10-244</td>
<td>Sustainable Honeybee Strains for Western North Carolina</td>
<td>$9,959</td>
<td>Ryan Higgs</td>
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<td>FS09-232</td>
<td>Natural Controls for Honey Bee Pests</td>
<td>$10,000</td>
<td>Scott Barlow</td>
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<td>FS09-237</td>
<td>Growing Organic Hops for the Local Market</td>
<td>$8,268</td>
<td>Rita Pelczar</td>
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<td>FS09-239</td>
<td>Wasabi Production</td>
<td>$8,649</td>
<td>Deidra Smith</td>
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<td>Amy Sue Blum</td>
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<td>FS09-240</td>
<td>Early growing season strategy</td>
<td>$3,482</td>
<td>Hollis Wild</td>
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<td>Appalachian Trees</td>
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<td>FS08-230</td>
<td>Building Capacity for Pastured Poultry Production in Western North Carolina</td>
<td>$7,755</td>
<td>Casey McKissick</td>
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<td>FS07-216</td>
<td>Season Extension for Winter CSA and Restaurant Sales</td>
<td>$5,829</td>
<td>Annie Louise Perkinson</td>
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<td>FS07-220</td>
<td>Meeting the Needs of Microbreweries with Fresh Hops Production</td>
<td>$9,762</td>
<td>Linda Sakiewicz</td>
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<td>FS06-197</td>
<td>Increasing Economic Viability and Promoting Sustainable Agriculture through Agritourism</td>
<td>$7,485</td>
<td>Amy Ager</td>
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<td>Hickory Nut Gap Farm - Spring House Meats</td>
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<td>FS06-199</td>
<td>Capillary Irrigation for Container Nurseries: a practical alternative to overhead irrigation?</td>
<td>$9,867</td>
<td>Ellen J. Colodney</td>
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<td>Coastal Plain Conservation Nursery, Inc</td>
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<td>FS06-206</td>
<td>A Diversifying and Marketing Strategy for Sustaining Small Farm Agriculture</td>
<td>$9,976</td>
<td>Nancy C. Moretz</td>
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<td>FS06-211</td>
<td>Value from byproducts of the Southern Wine Grape Industry</td>
<td>$9,925</td>
<td>Ben Webb</td>
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<td>Sandy Cross Vineyard</td>
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<td>FS04-185</td>
<td>Farmstead Cheese (Queso Blanco) for the Latino Food Market</td>
<td>$4,361</td>
<td>Tom Shore</td>
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FS04-185: Farmstead Cheese (Queso Blanco) for the Latino Food Market
FS03-163  Managing Beneficial Insects and Using Pest Trap Crops in Organic Broccoli $9,950  Charles A. Church  Watauga River Farms

FS03-164  Test Growing & Marketing Specialty Woody Cutflowers $8,555  Susan Wright Cochran  Shady Grove Gardens & Nursery

FS03-167  Mountain Tailgate Market Association Marketing Initiative $14,280  Charlie Jackson  Mountain Tailgate Market Association

FS03-170  Short- and Long-term Crop Replacement Project $9,787  Phillis Kenlaw  104 Best Drive

FS03-171  Dairy Goat Woodland Grazing Project $9,900  Brit Pfann  144 Celebrity Dairy Way

FS03-175  Greenhouse Grown Fraser Fir Tree Seedlings $7,401  Justin Wells  Sugar Grove Botanical Farm, Inc.

FS02-146  Farmscaping Organic Broccoli to Increase Beneficial Insect Numbers $9,855  Charles A. Church  Watauga River Farms

FS02-152  Biodiverse-Organic Christmas Tree Production $9,333  Mark Lackey

FS01-132  Ginsing Production Utilizing Natural Fungicides $9,986  Robert Eidus  Eagle Feather Farm

FS00-114  Creating a Tailgate Farmers Market $4,380  Annie Louise Perkinson

FS00-128  Direct Marketing Opportunities to Improve Economic Outlook $9,050  Andy Youngblood

FS99-085  Effects of Cover Crops on Weed and Insect Management in Blackberries $9,935  Sam Bellamy  Indigo Farm

FS99-091  Ratite Marketing Education Program $7,250  Tina Hurdt

FS99-096  Use of Low Value Hardwoods for Shiitake Mushroom Production $1,929  Walker H. Rayburn, Jr.

FS99-097  Oriental Persimmons and Pawpaws: Two Sustainable Crops for the South $6,534  Lesley Sanderson

FS99-105  Low Cost Compost Screening $2,975  Carl Weston

FS98-068  Late Blight Suppression in Tomatoes Using Competing Fungi on Leaf Surfaces $5,800  Tom Elmore  Thatchmore Farm

FS98-071  Workshop on Parasite Control Through On-Farm Fecal Studies $6,545  Susan Gladin
<table>
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<tr>
<td>FS98-076</td>
<td>Development of Low Input Sustainable Practices for Rose Production</td>
<td>$2,690</td>
<td>Jacqueline Jones</td>
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<td>FS98-078</td>
<td>High-Fructose Corn Syrup as a Replacement for Mepiquat to Reduce Vegetative Growth in Cotton</td>
<td>$2,224</td>
<td>Hubert Morris</td>
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<td>FS98-083</td>
<td>Organic Specialty Lettuce Production in Tobacco Greenhouses</td>
<td>$7,455</td>
<td>John Vollmer</td>
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<td>FS97-048</td>
<td>Evaluation of Mycorrhizal Inoculation on Growth and Quality of Three Eastern North Carolina Christmas Tree Species</td>
<td>$650</td>
<td>Daniel Dorsey</td>
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<td>FS97-051</td>
<td>Effect of Different Application Rates of Swine Lagoon Effluent on Corn and Wheat</td>
<td>$2,317</td>
<td>John Hart</td>
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<td>FS97-054</td>
<td>Forest Site Preparation with Swine</td>
<td>$5,088</td>
<td>Thomas Livingston</td>
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<td>FS96-035</td>
<td>Aquaculture Conversion Model Emphasizing Poultry and Hog Facilities Re-Use and Recycled On-Farm Resources</td>
<td>$6,000</td>
<td>Benny Bunting</td>
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<td>FS96-037</td>
<td>Identification of Cover Crops to Enhance the Habitat of Specific Beneficial Insects in Sustainable Production Systems</td>
<td>$8,452</td>
<td>Kenny Haines Misty Morning Farm</td>
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<td>FS96-038</td>
<td>Multiple On-Farm Use of Aquatic Plants and Animals</td>
<td>$9,575</td>
<td>Harvey Harman Sustenance Farm</td>
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<td>FS96-044</td>
<td>Alternatives to Chemicals in the Peanut Cotton Rotation</td>
<td>$9,366</td>
<td>Hubert Morris</td>
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<tr>
<td>FS95-027</td>
<td>Demonstration of High Value, Small Scale Sustainable Vegetable and Fruit Production Methods</td>
<td>$9,612</td>
<td>Larry and Judy McPherson</td>
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<td>FS95-034</td>
<td>Hydroponic Vegetable Production in Conjunction with a Trout Farming Operation</td>
<td>$9,975</td>
<td>Carl Zietlow Best Trout and Organic Farm</td>
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<td>FS94-007</td>
<td>Perennial Warm Season Grasses as Summer Pasture</td>
<td>$733</td>
<td>Norman and Karen Jordan</td>
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<tr>
<td>FS94-008</td>
<td>Meat Goats for Weed Control and Alternative Income on Cattle Operations</td>
<td>$2,020</td>
<td>Tony Kern KC Ranch</td>
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<td>FS94-013</td>
<td>Plant Shelters to Extend the Growing Season for Herbs</td>
<td>$3,550</td>
<td>Richard Morgan Harmony Herb Farm</td>
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**GRADUATE STUDENT GRANTS**

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<th>Project #</th>
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<tr>
<td>GS21-252</td>
<td>Improving Nutsedge and Grass Control in Organic Production Systems Using Sequential Mowing and Organic Herbicide Application</td>
<td>$15,654</td>
<td>Dr.Katherine Jennings NCSU Stephen Ippolito North Carolina State University</td>
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</table>
GS21-242  Equity and Environment in Scaled-Up Sustainable Food Systems Development  $15,109  Nichola Lowe  University of North Carolina at Chapel Hill
Sophie Kelmenson  University of North Carolina at Chapel Hill

GS21-253  Combining Roller Crimpers and Electrical Methods for Termination of Cover Crops in Herbicide-free Reduced-tillage Vegetable Crop Production Systems  $16,326  Dr. Katherine Jennings  NCSU
Colton Blankenship  North Carolina State University

GS20-230  Investigating Social Networks for Cooperative Management Potential in Agriculture  $8,984  Dr. Jason Delborne  North Carolina State University
Dalton George  North Carolina State University

GS19-205  Optimizing Electrical and Mechanical Palmer Amaranth Control and Reducing Seed Production and Viability  $16,498  Dr. Katherine Jennings  NCSU
Levi Moore  North Carolina State University

GS19-215  Quantifying the Disease Ecology and Network Connectedness Across Pollinator Communities as a Result of Planted Pollinator Plots  $16,500  Dr. David Tarpy  North Carolina State University
Hannah Levenson  North Carolina State University

GS19-212  Rye With or Without Purple Top Turnips for Stocker Calf Grazing Over the Winter Following Corn Harvest as Part of a Southeastern U.S. Integrated Crop-Livestock System  $11,757  Carrie Pickworth  NC State University
Jordan Cox-O’Neill  North Carolina State University

GS18-185  Evaluation of Reduced and Strip-tillage Cover Crop Sweet Potato Production Systems on Soil Health, Sweet Potato Growth, and Weed Management Programs  $16,499  Dr. Katherine Jennings  NCSU
Stephen Smith  NCSU

GS16-156  Integrating Pest & Pollinator Management in Southern Berry Production  $10,921  Dr. Hannah Burrack  North Carolina State University
Jeremy Slone  NCSU

GS15-140  Farm-to-Childcare in North Carolina; A Holistic Case Study  $10,636  Dr. J. Dara Bloom  NC State University
Jacob Rutz  NCSU

GS15-142  Food Waste: Quantifying on-farm vegetable losses  $10,206  Dr. Nancy Creamer  North Carolina State University
Lisa Johnson  North Carolina State University

GS14-132  Production of a conditional sterile-male strain for the control of spotted-wing drosophila  $10,890  Fu-Chyun Chu  North Carolina State University

GS14-135  Identifying regionally adapted winter pea and faba bean genotypes that maximize grain and cover cropping potential  $10,957  Dr. Chris Reberg-Horton  North Carolina State University
Rachel Atwell  North Carolina State University

GS13-121  Identifying barriers to sustainable food production by low resource producers and purchase by low income consumers in Washington and Beaufort Counties, North Carolina  $7,614  Dr. Chantal Reid  Duke University, Dept of Biology
Kimberly Hill  Duke University

GS12-112  Contributions of legume cover crop root systems to soil carbon pools in organic systems using different termination strategies  $10,997  Julie Grossman  NCSU
Arun Jani  North Carolina State University
Breeding Wheat for Increased Weed-Suppressive Ability against Italian Ryegrass
$10,952
Dr. Chris Reberg-Horton
North Carolina State University
Margaret Worthington
NCSU

Plant mediated effects on parasitoid efficacy in a banker plant system
$9,930
Dr. Steven Frank
North Carolina State University
Travis McClure
NCSU
Sara Prado
NCSU

Verticillium Wilt Management: Elucidating Mechanisms of Resistance and Integration of Sustainable Alternatives in Tomato Production Systems
$9,970
Dr. Frank Louws
NC State University
Meagan Iott
North Carolina State University

Potential for Conservation Biological Control of Stink bugs in North Carolina
$9,735
David Orr
North Carolina State University
Dr. Sriyanka Lahiri
University of Florida

Predictors of short-term nitrogen availability in organic farming systems that utilize warm season cover crops
$10,000
Dr. Nancy Creamer
North Carolina State University
Suzanne O’Connell
North Carolina State University

The Black Pearl Pepper Banker Plant for Biological Control of Thrips in Commercial Greenhouses
$9,959
Dr. Steven Frank
North Carolina State University
Sarah Wong
North Carolina State University

Managing field borders for weed seed predators
$9,856
Dr. Chris Reberg-Horton
North Carolina State University
Aaron Fox
North Carolina State University

Evaluation of Herbal Remedies as Alternatives to Antibiotic Therapy in Dairy Cattle
$9,990
Dr. Steven Washburn
North Carolina State University
Dr. Kevin Anderson
North Carolina State University
Keena Mullen
North Carolina State University

Evaluating vermicompost mediated host plant resistance as a sustainable alternative to manage agricultural insect pests
$9,810
Yasmin Cardoza
North Carolina State University
Amos Little
North Carolina State University

Southeastern North Carolina Food Systems Project
$10,000
Leslie Hossfeld
University of North Carolina Wilmington
Raven Bruno
UNCW

Elucidating the role of cellulases involved in biological control of Phytophthora root rot
$9,931
George Place
North Carolina State University
Kelly Ivors
North Carolina State University
Brantlee Spakes Richter
North Carolina State University

Traits of Interest for Improving Weed Suppressive Ability in Soybean During the Critical Period for Weed Competition
$9,972
Dr. Chris Reberg-Horton
North Carolina State University
Kelly Ivors
North Carolina State University
George Place
North Carolina State University

Chemistry and Biodegradability of Dissolved Soil Organic Matter in Diverse Farming Systems
$9,850
Dr. Wei Shi
North Carolina State University
Lei Tian
North Carolina State University

Evaluating vermicompost mediated host plant resistance as a sustainable alternative to manage agricultural insect pests
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Dr. Chris Reberg-Horton
North Carolina State University
Kelly Ivors
North Carolina State University
George Place
North Carolina State University

Chemistry and Biodegradability of Dissolved Soil Organic Matter in Diverse Farming Systems
$9,850
Dr. Wei Shi
North Carolina State University
Lei Tian
North Carolina State University
GS07-058  Cover crop mulches for no-till organic onion production $10,000  Dr.Nancy Creamer
North Carolina State University
Emily Vollmer

GS07-060  Potential of grafting to improve nutrient management of heirloom tomatoes on organic farms $10,000  Mary Peet
North Carolina State University
Dr.Frank Louws
NC State University
Suzanne O'Connell
North Carolina State University

GS07-062  Omega-3 Purlsane Eggs $10,000  Thomas Rufty
NCSU Crop Science Department
Laura Vance
NCSU Crop Science Department

GS06-051  Effects of management practices and plant growth regulators on the allelopathic potential of rye (Secale cereale) $9,780  James Burton
North Carolina State University
David Danehower
North Carolina State University
Christine Sickler
North Carolina State University

GS06-052  Testing Technologies for Affordable Bioshelters $9,914  Mary Hoepfl
Appalachian State University
Yonatan Strauch
Appalachian State University

Duke University Nicholas School of the Environment
Lucy Henry
Duke University Nicholas School of the Environment

GS05-046  Inducing Disease Resistance and Increased Production in Organic Heirloom Tomato Production Through Grafting $10,000  Dr.Frank Louws
NC State University
Cary Rivard
North Carolina State University

GS04-032  Optimizing substrates, composts, and fertilizer additions for organic transplant production $10,000  Mary Peet
North Carolina State University
Elizabeth Larrea
North Carolina State University

GS04-035  Effects of Tillage, Rotation, and Organic Inputs on Soil Ecological Properties in Vegetable Crop Production Systems $9,988  Greg Hoyt
Dept. of Soil Science, NCSU
Laura Overstreet
North Carolina State University

GS03-027  Natural Vegetation and its Influence on Weed Populations in Neighboring Fields $9,932  Dr.J. Paul Mueller
North Carolina State University
Susan T. Jelinek
North Carolina State University

GS03-028  Evaluation of Beneficial Insect Habitat for Organic Farms $10,000  David Orr
North Carolina State University
Lisa Forehand
North Carolina State University

GS01-008  Breeding a better cover crop: a screen of rye germplasm for weed suppression $9,986  Dr.Nancy Creamer
North Carolina State University
Dr.Chris Reberg-Horton
North Carolina State University

GS00-004  Interactions between predators and insect-parasitic nematodes in soil $10,000  Mary Barbercheck
North Carolina State University
C. Marie Greenwood
North Carolina State University

GS00-006  Evaluation of Cover Crops and Conservation Tillage for Conventional and Organic Sweetpotato (Ipomoea batatas) Production in North Carolina $9,927  Dr.Nancy Creamer
North Carolina State University
Danielle Treadwell
North Carolina State University
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<tr>
<td>OS22-159</td>
<td>Researching Colocasia esculenta (aka Taro) in the Southeast as a Sustainable and Alternate Crop</td>
<td>$20,000</td>
<td>Chris Smith&lt;br&gt;The Utopian Seed Project</td>
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<td>OS21-145</td>
<td>Southern Pea (Vigna unguiculata) Production Under Conservation Tillage Systems in North Carolina</td>
<td>$18,730</td>
<td>Dr. Jason Davis&lt;br&gt;University of Mount Olive</td>
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<td>OS21-141</td>
<td>On-farm Trials to Evaluate New Tomato Breeding Lines with Verticillium Wilt Race 2 Tolerance</td>
<td>$20,000</td>
<td>Reza Shekasteband&lt;br&gt;NC State University</td>
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<td>OS19-129</td>
<td>Evaluating Scale-appropriate Technology for Organic No-till Vegetable Production</td>
<td>$14,904</td>
<td>Karen McSwain&lt;br&gt;Carolina Farm Stewardship Association</td>
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<tr>
<td>OS19-125</td>
<td>Regenerative Grazing to Mitigate Climate Change</td>
<td>$14,787</td>
<td>Saskia Cornes&lt;br&gt;Duke University</td>
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<td>OS18-123</td>
<td>Demonstration of Root Zone Heating Supported by the Developed Biomass Greenhouse Heating System</td>
<td>$14,883</td>
<td>Dr. Ok-Youn Yu&lt;br&gt;Appalachian State University</td>
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<tr>
<td>OS17-105</td>
<td>Evaluating On-Farm Use of Multi-Species Cover Crops</td>
<td>$15,000</td>
<td>Michelle Lovejoy&lt;br&gt;NC Foundation for Soil and Water Conservation</td>
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<td>OS10-052</td>
<td>Optimizing biological control of greenhouse pests with banker plant systems</td>
<td>$14,959</td>
<td>Steven Frank&lt;br&gt;NCSU</td>
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<tr>
<td>OS10-055</td>
<td>Increasing on-farm sustainability through agritourism research: An examination of agritourism visitors, farms, and marketing strategies</td>
<td>$15,000</td>
<td>Dr. Samantha Rich&lt;br&gt;North Carolina State University</td>
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<td>OS09-046</td>
<td>Grafting Heirloom Tomatoes on Disease Resistant Rootstock in Western North Carolina</td>
<td>$4,960</td>
<td>Susan Colucci&lt;br&gt;NC Cooperative Extension</td>
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<td>OS09-050</td>
<td>Development and Implementation of On-Farm Biological Soil Disinfestation to Manage Soilborne Diseases In Organic Strawberry Production Systems</td>
<td>$15,000</td>
<td>Dr. Frank Louws&lt;br&gt;NC State University</td>
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<tr>
<td>OS08-042</td>
<td>New Tools to Make Organic No-till Soybeans and Corn a Reality</td>
<td>$14,917</td>
<td>Dr. Chris Reberg-Horton&lt;br&gt;North Carolina State University</td>
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<td>$14,898</td>
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<td>Opportunities for pasture-raised Jersey beef in the Southeast</td>
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<td>OS05-025</td>
<td>Salmonella Contamination and Antibiotic Resistance on Pastured Poultry and Conventional Poultry Farms</td>
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<td>Cedarose Siemon&lt;br&gt;Independent Research Scientist</td>
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</table>

**SUSTAINABLE COMMUNITY INNOVATION GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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<tbody>
<tr>
<td>OS22-159</td>
<td>Researching Colocasia esculenta (aka Taro) in the Southeast as a Sustainable and Alternate Crop</td>
<td>$20,000</td>
<td>Chris Smith&lt;br&gt;The Utopian Seed Project</td>
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<tr>
<td>OS21-145</td>
<td>Southern Pea (Vigna unguiculata) Production Under Conservation Tillage Systems in North Carolina</td>
<td>$18,730</td>
<td>Dr. Jason Davis&lt;br&gt;University of Mount Olive</td>
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<td>OS21-141</td>
<td>On-farm Trials to Evaluate New Tomato Breeding Lines with Verticillium Wilt Race 2 Tolerance</td>
<td>$20,000</td>
<td>Reza Shekasteband&lt;br&gt;NC State University</td>
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<td>OS19-129</td>
<td>Evaluating Scale-appropriate Technology for Organic No-till Vegetable Production</td>
<td>$14,904</td>
<td>Karen McSwain&lt;br&gt;Carolina Farm Stewardship Association</td>
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<tr>
<td>OS19-125</td>
<td>Regenerative Grazing to Mitigate Climate Change</td>
<td>$14,787</td>
<td>Saskia Cornes&lt;br&gt;Duke University</td>
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<td>OS18-123</td>
<td>Demonstration of Root Zone Heating Supported by the Developed Biomass Greenhouse Heating System</td>
<td>$14,883</td>
<td>Dr. Ok-Youn Yu&lt;br&gt;Appalachian State University</td>
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<td>OS17-105</td>
<td>Evaluating On-Farm Use of Multi-Species Cover Crops</td>
<td>$15,000</td>
<td>Michelle Lovejoy&lt;br&gt;NC Foundation for Soil and Water Conservation</td>
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<tr>
<td>OS10-052</td>
<td>Optimizing biological control of greenhouse pests with banker plant systems</td>
<td>$14,959</td>
<td>Steven Frank&lt;br&gt;NCSU</td>
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<td>OS10-055</td>
<td>Increasing on-farm sustainability through agritourism research: An examination of agritourism visitors, farms, and marketing strategies</td>
<td>$15,000</td>
<td>Dr. Samantha Rich&lt;br&gt;North Carolina State University</td>
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<td>OS09-046</td>
<td>Grafting Heirloom Tomatoes on Disease Resistant Rootstock in Western North Carolina</td>
<td>$4,960</td>
<td>Susan Colucci&lt;br&gt;NC Cooperative Extension</td>
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<td>OS09-050</td>
<td>Development and Implementation of On-Farm Biological Soil Disinfestation to Manage Soilborne Diseases In Organic Strawberry Production Systems</td>
<td>$15,000</td>
<td>Dr. Frank Louws&lt;br&gt;NC State University</td>
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<td>OS08-042</td>
<td>New Tools to Make Organic No-till Soybeans and Corn a Reality</td>
<td>$14,917</td>
<td>Dr. Chris Reberg-Horton&lt;br&gt;North Carolina State University</td>
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How Local Food System Development Affects the Sustainability of Agriculture: The Impact of Farmer-Consumer Interactions on Production Practices $34,830
Charlie Jackson
Appalachian Sustainable Agriculture Project

Community Farm & Food Project Phase II - Initiation $9,996
Allison Kiehl
Southern Appalachian Highlands Conservancy

Community Farm and Food Project Phase I - Assessing Needs and Building Partnerships $10,000
Allison Kiehl
Southern Appalachian Highlands Conservancy

PolkFresh TradePost Project: A Strategy to Implement Polk County’s 20/20 Vision plan for Sustainable Community Development $10,000
Carol Lynn Jackson
PolkFresh TradePost Project

Farming and Agricultural Recommendations for Mount Pleasant (F.A.R.M.) $10,000
Stacy Piehl
Town of Mount Pleasant
Michael Robertson
Town of Mount Pleasant

Stecoah Kitchen Entrepreneurship & Agri-tourism Project $10,000
Beth Fields
Stecoah Valley Arts, Crafts & Educational Center, Inc.

SNAP! A Sustainable Network at Polk From Farm to Fork and back to Farm again $10,000
Mary Lyth

Stecoah Kitchen Entrepreneurship & Agri-Tourism Project $10,000
Beth Fields
Stecoah Valley Arts, Crafts and Educational Center
Beth Fields
Stecoah Valley Arts, Crafts & Educational Center, Inc.

Establishing community and business partnerships to build a market identity for local seafood $9,950
Jennifer Ulz
Carteret Community College

Getting your small farm products to market / a three county program to solve product logistics: marketing/sales, product development, packages and labeling, transportation $40,000
David Kendall
North Carolina Cooperative Extension

Women Farmers Building a Healthy Community and Economy in the High Country $9,900
Chelly Richards
Blue Ridge Women in Agriculture (BRWIA)

A Strategy for Sustaining Henderson County Agricultural Communities $8,500
Lori Sand
Henderson County Planning Department

Agricultural Community Support Across Boundaries $10,000
Tom Elmore
Land-of-Sky Regional Council

Healthy Livestock Agriculture & Healthy People: Connecting Local Pasture-Raised Food and Consumers in Central North Carolina $10,000
Sally Norton
Program on Integrative Medicine

Strengthening Rural Communities Through Direct Marketing $9,941
Gerry Alfano
Park and Recreation-Greensboro Farmers Curb Market
Susan Andreatta
University of North Carolina at Greensboro
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CS03-018</td>
<td>New River Sustainable Agriculture Marketing Plan</td>
<td>$10,000</td>
<td>Hollis Wild</td>
<td>Appalachian Trees</td>
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<tr>
<td>CS02-005</td>
<td>SE North Carolina Agri-Tourism Corridor Development</td>
<td>$7,000</td>
<td>Mikki Sager</td>
<td>The Conservation Fund</td>
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Total funding from the USDA SARE program to North Carolina $14,888,229

For further information on projects, contact 770-412-4787 or ssare@uga.edu. Sustainable Agriculture Research and Education (SARE) is funded by USDA’s National Institute of Food and Agriculture (NIFA).