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 $332 million to more than 7,748 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.

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

$14,472,457 in total funding

229 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: 229 grants

- 72 Research and Education
- 17 Sustainable Community Innovation
- 28 Professional Development Program
- 56 Farmer/Rancher
- 42 Graduate Student
- 14 On Farm Research/Partnership

Total funding: $14,472,457

- $10,902,057 Research and Education
- $220,117 Sustainable Community Innovation
- $2,285,252 Professional Development Program
- $402,069 Farmer/Rancher
- $460,430 Graduate Student
- $202,532 On Farm Research/Partnership

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

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 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

For detailed information on SARE projects, go to 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.
North Carolina has been awarded $14,472,457 grants to support 224 projects, including but not limited to, 67 research and/or education projects, 28 professional development projects and 56 producer-led projects. North Carolina has also received additional SARE support through multi-state projects.

### RESEARCH AND EDUCATION GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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<tr>
<td>LS21-347</td>
<td>Farmer Direct Sales During and After COVID-19</td>
<td>$49,950</td>
<td>Molly Nicholie&lt;br&gt;Appalachian Sustainable Agriculture Project (ASAP)&lt;br&gt;Duane Adams&lt;br&gt;The AB-Tech Western Regional Small Business Center&lt;br&gt;Amy DeCamp&lt;br&gt;Appalachian Sustainable Agriculture Project (ASAP)&lt;br&gt;Amy Marion&lt;br&gt;Appalachian Sustainable Agriculture Project (ASAP)&lt;br&gt;Craig Mauney&lt;br&gt;NC State Extension: Mountain Horticulture Crops Research and Ext&lt;br&gt;David Smiley&lt;br&gt;Appalachian Sustainable Agriculture Project (ASAP)</td>
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<td>LS21-357</td>
<td>Southern Pasture-Raised Beef: From Farm to Table to Us</td>
<td>$380,203</td>
<td>Dr.Stephan van Vliet&lt;br&gt;Duke University School of Medicine&lt;br&gt;Dr.James Bain&lt;br&gt;Duke University&lt;br&gt;Dr.Alan Franzluebbers&lt;br&gt;North Carolina State University&lt;br&gt;Dr.Matt Poore&lt;br&gt;North Carolina State University&lt;br&gt;Dr.Sierra Young&lt;br&gt;North Carolina State University</td>
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<td>LS21-356</td>
<td>Securing Land Tenure Rights for Heirs Property Owners</td>
<td>$400,000</td>
<td>Savi Horne&lt;br&gt;Land Loss Prevention Project&lt;br&gt;Billy Lawton&lt;br&gt;Center Hill Farms&lt;br&gt;Lorette Picciano&lt;br&gt;Rural Coalition&lt;br&gt;Dr.Robert Zabawa&lt;br&gt;Tuskegee University, College of Agriculture, Environment and Nut</td>
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<td>LS21-351</td>
<td>Saving Seed for Resilient Local Systems: An online, video based course on saving seed from the Utopian Seed Project</td>
<td>$49,775</td>
<td>Chris Smith&lt;br&gt;The Utopian Seed Project</td>
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<tr>
<td>LS20-323</td>
<td>Building Resilient and Successful Farm Businesses in the Southern Appalachians</td>
<td>$50,000</td>
<td>Cameron Farlow&lt;br&gt;Organic Growers School</td>
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</table>
Navigating Financial and Mental Health Crises

LS20-336

$299,959

Laketa Smith
The Rural Advancement Foundation International - USA
Scott Marlow
RAFI-USA
Savi Horne
Land Loss Prevention Project
Robert Maggiani
NCAT

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

Application of the Banker Trap Plant (BTraP) Concept of Trap Cropping for the Management of the Harlequin Bug, a Pest of Brassicaceae: A new paradigm in small farm IPM

LS19-311

$257,987

Louis Jackai
N. Carolina Agricultural and Technical State University

Promoting Adoption of Cover Crops in Southeastern Farming Systems

LS18-294

$48,000

Michelle Lovejoy
NC Foundation for Soil and Water Conservation

CEFS Long-term Systems Research: Providing the Building Blocks for Resilient Food Production Systems Phase III

LS18-303

$100,000

Dr. S. Chris Reberg-Horton
North Carolina State University

Enhancing System Sustainability by Mitigating the Impact of Three Major Constraints to Efficient Cowpea Production and Use: Pests, Pollination and Nodulation

LS17-279

$210,000

Dr. Beatrice Dingha
North Carolina A&T State University

A Supply Chain Approach to Finding Win-win Sustainable Solutions for Edible But Unharvested Produce

LS17-280

$219,971

Rebecca Dunning
North Carolina State University Horticulture
<table>
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<tr>
<th>Project No.</th>
<th>Project Title</th>
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<th>Principal Investigator</th>
<th>Institution</th>
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<td>LS17-284</td>
<td>Biological Control of Two-spotted Spider Mite on Vegetables</td>
<td>$200,000</td>
<td>James Walgenbach</td>
<td>NCSU</td>
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<td>LS17-285</td>
<td>Growing Local - Phase III</td>
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<td>LS15-267</td>
<td>CEFS Long-Term Systems Research: Providing the Building Blocks for Resilient Food Production Systems</td>
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<td>LS14-260</td>
<td>Growing Local - Phase II</td>
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<td>LS12-247</td>
<td>CEFS Long-Term Systems Research: Providing the Building Blocks for Resilient Food Production Systems</td>
<td>$300,000</td>
<td>Dr. S. Chris Reberg-Horton</td>
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<td>LS12-248</td>
<td>Quantifying the Multiplier Effect: What Sustainable Local Food Systems can Mean to Local Communities</td>
<td>$211,000</td>
<td>Drew Marticorena</td>
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<td>LS11-239</td>
<td>Growing Local - Phase I</td>
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<td>LS11-246</td>
<td>Saving Endangered Hog Breeds</td>
<td>$151,215</td>
<td>Dr. Alison Martin</td>
<td>The Livestock Conservancy</td>
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<td>LS10-227</td>
<td>Lighting up the black box: Improving legume performance on organic farms by optimizing microbially-mediated plant and soil nitrogen cycling processes.</td>
<td>$192,000</td>
<td>Dr. Julie Grossman</td>
<td>University of Minnesota</td>
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<td>LS09-224</td>
<td>Research and educational support for organic dairy farming in the South</td>
<td>$250,000</td>
<td>Dr. Steven Washburn</td>
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<td>LS08-203</td>
<td>Exploiting the organic peanut market: refining production systems for the Southeast</td>
<td>$175,000</td>
<td>Mark Boudreau</td>
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<td>LS08-210</td>
<td>Reduced tillage in organic systems: a soil and water quality imperative</td>
<td>$190,000</td>
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<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>
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<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>
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<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>
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<td>Project ID</td>
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<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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<td>LS05-169</td>
<td>Exploiting the Organic Peanut Market: Design of Production Systems for the Southeast</td>
<td>$159,000</td>
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<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>
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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>
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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>
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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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<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>
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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>
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<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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<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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<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</td>
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<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>
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<td>LS01-128</td>
<td>Influence of microbial species and functional diversity in soils on</td>
<td>$167,842</td>
<td>Jean Ristaino</td>
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<td>pathogen dispersal and ecosystem processes in organic and conventional</td>
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<td>LS00-109</td>
<td>Increasing Growers’ Quality of life through Direct Marketing: The Role</td>
<td>$45,000</td>
<td>Susan Andreatta</td>
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<td>of Farmers’ Markets and Consumer Supported Agriculture</td>
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<td>William Wicklife, II</td>
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<td>The Impact of Agricultural Systems on Soil Quality and Sustainability</td>
<td>$191,263</td>
<td>Mary Barbercheck</td>
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<td>LS99-106</td>
<td>Integrated Crop and Sylvan Systems with Swine: A State and National</td>
<td>$156,262</td>
<td>Charles Talbott</td>
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<td>Development of Decision Support Systems for Improvement of Silvicultural</td>
<td>$26,204</td>
<td>Fredrick Cubbage</td>
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<td>Practices on Farm-Based Non-Industrial Private Forests</td>
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<td>LS98-094</td>
<td>A Model for Long-Term, Large-Scale Systems Research Directed Toward</td>
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<td>Impacts on Agricultural Sustainability from Structural Change in Peanut</td>
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<td>David Harris</td>
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<td>LS96-077</td>
<td>Development of Sustainable Cropping Systems for Seedless Watermelon</td>
<td>$182,751</td>
<td>M. R. Reddy</td>
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<td>and Fall Lettuce in Rotation with Green Manures</td>
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<td>LS95-060</td>
<td>Animal Waste, Winter Cover Crops, and Biological Antagonists for</td>
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<td>Sustained Management of Columbia Lance and Other Associated Nematodes</td>
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<td>LS95-065</td>
<td>Wildlife Enhancement and Education as a Catalyst in the Widespread</td>
<td>$98,205</td>
<td>Pete Bromley</td>
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<td>LS94-059</td>
<td>Assessing the Impact of Beneficial Insect Populations on Organic Farms</td>
<td>$17,735</td>
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<td>LS94-063</td>
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<td>$180,497</td>
<td>Dr. Steven Washburn</td>
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<td>LS92-045</td>
<td>Organic Nitrogen Sources for Sweetpotatoes: Production Potential and</td>
<td>$105,000</td>
<td>Wanda W. Collins</td>
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<td>LS91-032</td>
<td>Economically Viable Production of Vegetables in The Southern Region</td>
<td>$37,000</td>
<td>Mary Peet</td>
<td>North Carolina State University</td>
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<td>Using Low-input and Sustainable Techniques: A Data Base</td>
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</table>
### Improved Nitrogen Use-Efficiency in Cover Crop Based Production Systems

**Project #:** LS91-035  
**Title:** Improved Nitrogen Use-Efficiency in Cover Crop Based Production Systems  
**SARE Support:** $179,992  
**Project Leader:** Michael G. Wagger  
**Institution:** North Carolina State University

### Swine Waste — Low-cost Alternative to Commercial Fertilizer for Production of Forage for Grazing Cattle

**Project #:** LS90-026  
**Title:** Swine Waste — Low-cost Alternative to Commercial Fertilizer for Production of Forage for Grazing Cattle  
**SARE Support:** $50,000  
**Project Leader:** Dr. J. Paul Mueller  
**Institution:** North Carolina State University

### On-Farm Demonstrations and Research of Low-input Sustainable Farming

**Project #:** LS89-014  
**Title:** On-Farm Demonstrations and Research of Low-input Sustainable Farming  
**SARE Support:** $100,000  
**Project Leader:** William W. Dow  
**Institution:** Carolina Farm Stewardship Association

### Composting Poultry Litter — Economics and Market Potential of a Renewable Resource

**Project #:** LS89-018  
**Title:** Composting Poultry Litter — Economics and Market Potential of a Renewable Resource  
**SARE Support:** $15,000  
**Project Leader:** L. M. Safley  
**Institution:** North Carolina State University

### Planning Funds for a Proposal on Extending the Issue of Sustainable Agriculture to Small Farms in North Carolina, Tennessee and Virginia

**Project #:** LS88-005  
**Title:** Planning Funds for a Proposal on Extending the Issue of Sustainable Agriculture to Small Farms in North Carolina, Tennessee and Virginia  
**SARE Support:** $15,000  
**Project Leader:** M. Ray McKinnie  
**Institution:** North Carolina A & T State University

### Planning Grant: On-farm Demonstration of Low-input Farming

**Project #:** LS88-006  
**Title:** Planning Grant: On-farm Demonstration of Low-input Farming  
**SARE Support:** $15,000  
**Project Leader:** William W. Dow  
**Institution:** Carolina Farm Stewardship Association

### A Comparison of Cropping Systems Managed Conventionally or with Reduced Chemical Input

**Project #:** LS88-009  
**Title:** A Comparison of Cropping Systems Managed Conventionally or with Reduced Chemical Input  
**SARE Support:** $255,000  
**Project Leader:** Larry King  
**Institution:** North Carolina State University

## PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| ES19-146  | Effectively Using Permanent and Temporary Electric Fence Technology: Adviser training to support producers implementing adaptive grazing management | $79,954      | Dr. Matt Poore  
North Carolina State University |
| ES18-140  | Training Innovative and Impactful Trainers to Provide Beginning Farmer Support in the Southern Appalachians                                      | $43,450      | Cameron Farlow  
Organic Growers School |
| ES17-134  | 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 | $79,985      | J. Dara Bloom  
NC State University |
| SC14-001  | Institutionalizing Cover Crop Research and Education in the Southeast                                                                       | $129,712     | Dr. S. Chris Reberg-Horton  
North Carolina State University |
| ES14-124  | Strengthening University Local Food Systems: Train the Trainer Approach through Extension, Student, and Food Service Collaboration          | $78,547      | Kathleen Liang  
North Carolina A&T State University |
| ES13-115  | Building Local Food Systems: Training the Trainers, Peer Collaboration, and Materials Development                                             | $64,113      | S. Gary Bullen  
N.C. State University |
| ES13-119  | Moving the NC Local Food System Toward Sustainability: A Comprehensive Graduate course in Local Food Systems for Cooperative Extension Agents, Specialists, and other Educators | $79,063      | Joanna Massey Lelekacs  
NC State Extension / CEFS |
| ES10-103  | Building Capacity: Farm to School                                                                                                           | $78,303      | Emily Jackson  
Appalachian Sustainable Agriculture Project |
<table>
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<tr>
<th>Project Code</th>
<th>Project Title</th>
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</table>
| ES10-104     | Back to Basics: Training the Trainers at the Eastern Apicultural Society Conference | $22,313        | Dr. David Tarpy  
North Carolina State University |
| ES10-105     | Multiple Livestock Species  
Integrated Parasite Management Train-the-Trainer Programs with On-Farm, Computer-based and Traditional Training Sessions | $86,105        | Dr. Niki Whitley  
NC A&T SU Cooperative Extension Program |
| ES09-095     | Training the Trainers in Community-based Food Systems: a project-oriented case study approach | $99,266        | Dr. Nancy Creamer  
North Carolina State University |
| ES08-090     | An agent Training Program in Safe Food Handling & Legal Liability             | $77,344        | Diane Ducharme  
NCSU |
| ES08-092     | Energy Training for Agricultural Professionals in the Southern SARE Region   | $97,684        | Mike Morris  
National Center for Appropriate Technology  
Steve Moore  
Center for Environmental Farming Systems |
| ES08-093     | Agritourism Training for Agriculture Professionals                           | $82,986        | Kent Wolfe  
CAED |
| ES06-083     | Pasture Pork 101: Comprehensive Agent Training in Pasture-based Hog production | $62,500        | Todd See  
North Carolina State University |
| ES05-078     | Sustainable Production Systems for Range-Reared Standard Turkeys            | $109,444       | Marjorie Bender  
American Livestock Breeds Conservancy |
| ES05-079     | Direct Market Training for Agricultural Professionals                       | $96,757        | S. Gary Bullen  
N.C. State University |
| ES03-065     | Building Sustainable Soil Systems                                           | $119,848       | Wilfred Cromartie  
SARE |
| ES03-066     | Producer Managed Efforts in Marketing of Livestock & Livestock Products    | $89,400        | John O'Sullivan  
Cooperative Extension Program |
| ES01-058     | Sustaining Agriculture through Community Partnerships                       | $49,884        | Robin Kohanowich  
Central Carolina Community College |
| ES00-047     | Training in Alternative Research Strategies for Sustainable Farming Systems | $101,800       | Noah Ranells  
NCSU (former staff)  
Phil Rzewnicki  
NCSU  
Keith Baldwin  
NC A&T State University |
| ES99-043     | Multimedia Training Resources on Sustainable Greenhouse Vegetable Production | $39,887        | Mary Peet  
North Carolina State University |
| ES98-039     | Multi Disciplinary Training on Pasture-Based Dairy Systems - A Sustainable Alternative for the Region | $53,429        | Dr. Steven Washburn  
North Carolina State University |
| ES98-040     | Grazing Management Training to Enhance the Sustainability of Pasture-Based Beef Production Systems | $31,745        | Jim Green  
North Carolina State University, Crop Science Dept. |
| ES98-042     | Training in Agriculture Program (TAP)                                      | $17,890        | Dorothy Barker  
Operation Spring Plant, Inc. |
<table>
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<th>Project #</th>
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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>
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<tr>
<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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**FARMER/RANCHER GRANTS**

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<th>Project #</th>
<th>Project Title</th>
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<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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<tr>
<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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<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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<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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<td>FS13-265</td>
<td>Sustainable Forages as an Alternative to Supplemental Feeding</td>
<td>$9,798</td>
<td>Ryan Higgs Blue Ridge Apiaries</td>
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<tr>
<td>FS13-268</td>
<td>Closed Loop Mushroom Production on 100% Waste Substrate</td>
<td>$7,623</td>
<td>Joseph Allawos 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 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 NC Sweet Potato 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. Silver Spoon Apiaries, Inc</td>
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<td>FS10-244</td>
<td>Sustainable Honeybee Strains for Western North Carolina</td>
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<td>FS09-232</td>
<td>Natural Controls for Honey Bee Pests</td>
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<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 Blue Ridge Hops</td>
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<td>FS09-239</td>
<td>Wasabi Production</td>
<td>$8,649</td>
<td>Deidra Smith Amy Sue Blum SARE Southern Region</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>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>
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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>
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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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<td>FS03-163</td>
<td>Managing Beneficial Insects and Using Pest Trap Crops in Organic Broccoli</td>
<td>$9,950</td>
<td>Charles A. Church</td>
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<td>FS03-164</td>
<td>Test Growing &amp; Marketing Specialty Woody Cutflowers</td>
<td>$8,555</td>
<td>Susan Wright Cochran</td>
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<td>FS03-167</td>
<td>Mountain Tailgate Market Association Marketing Initiative</td>
<td>$14,280</td>
<td>Charlie Jackson</td>
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<td>Short- and Long-term Crop Replacement Project</td>
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<td>Dairy Goat Woodland Grazing Project</td>
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<td>Brit Pfann</td>
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<td>144 Celebrity Dairy Way</td>
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<td>FS03-175</td>
<td>Greenhouse Grown Fraser Fir Tree Seedlings</td>
<td>$7,401</td>
<td>Justin Wells</td>
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<td>Sugar Grove Botanical Farm, Inc.</td>
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<td>FS02-146</td>
<td>Farmscaping Organic Broccoli to Increase Beneficial Insect Numbers</td>
<td>$9,855</td>
<td>Charles A. Church</td>
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<td>FS02-152</td>
<td>Biodiverse-Organic Christmas Tree Production</td>
<td>$9,333</td>
<td>Mark Lackey</td>
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<td>FS01-132</td>
<td>Ginsing Production Utilizing Natural Fungicides</td>
<td>$9,986</td>
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<td>FS00-114</td>
<td>Creating a Tailgate Farmers Market</td>
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<td>FS00-128</td>
<td>Direct Marketing Opportunities to Improve Economic Outlook</td>
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<td>Andy Youngblood</td>
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<td>FS99-085</td>
<td>Effects of Cover Crops on Weed and Insect Management in Blackberries</td>
<td>$9,935</td>
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<td>FS99-091</td>
<td>Ratite Marketing Education Program</td>
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<td>FS99-096</td>
<td>Use of Low Value Hardwoods for Shiitake Mushroom Production</td>
<td>$1,929</td>
<td>Walker H. Rayburn, Jr.</td>
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<td>FS99-097</td>
<td>Oriental Persimmons and Pawpaws: Two Sustainable Crops for the South</td>
<td>$6,534</td>
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<td>FS99-105</td>
<td>Low Cost Compost Screening</td>
<td>$2,975</td>
<td>Carl Weston</td>
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<td>FS98-068</td>
<td>Late Blight Suppression in Tomatoes Using Competing Fungi on Leaf Surfaces</td>
<td>$5,800</td>
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<td>FS98-071</td>
<td>Workshop on Parasite Control Through On-Farm Fecal Studies</td>
<td>$6,545</td>
<td>Susan Gladin</td>
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<td>FS98-076</td>
<td>Development of Low Input Sustainable Practices for Rose Production</td>
<td>$2,690</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>
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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>
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<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</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</td>
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</table>

*Indigo Farm*
### Alternatives to Chemicals in the Peanut Cotton Rotation

FS96-044

Hubert Morris

$9,366

### Demonstration of High Value, Small Scale Sustainable Vegetable and Fruit Production Methods

FS95-027

Larry and Judy McPherson

$9,612

### Hydroponic Vegetable Production in Conjunction with a Trout Farming Operation

FS95-034

Best Trout and Organic Farm

$9,975

### Perennial Warm Season Grasses as Summer Pasture

FS94-007

Norman and Karen Jordan

$733

### Meat Goats for Weed Control and Alternative Income on Cattle Operations

FS94-008

Tony Kern

KC Ranch

$2,020

### Plant Shelters to Extend the Growing Season for Herbs

FS94-013

Richard Morgan

Harmony Herb Farm

$3,550

## GRADUATE STUDENT GRANTS

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<tr>
<th>Project #</th>
<th>Project Title</th>
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</table>
| 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 |
| GS21-252  | Improving Nutsedge and Grass Control in Organic Production Systems Using Sequential Mowing and Organic Herbicide Application | $15,654      | Dr. Katherine Jennings  
NCSU  
Stephen Ippolito  
North Carolina State University |
| GS21-242  | Equity and Environment in Scaled-Up Sustainable Food Systems Development       | $16,500      | Nichola Lowe  
University of North Carolina at Chapel Hill  
Sophie Kelmenson  
University of North Carolina at Chapel Hill |
| 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 |
<table>
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<tr>
<th>Project Code</th>
<th>Project Title</th>
<th>Funding</th>
<th>Principal Investigator(s)</th>
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| GS15-140     | Farm-to-Childcare in North Carolina; A Holistic Case Study                                        | $10,636 | 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. S. 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 |
| GS12-115     | Breeding Wheat for Increased Weed-Suppressive Ability against Italian Ryegrass                     | $10,952 | Dr. S. Chris Reberg-Horton  
North Carolina State University  
Margaret Worthington  
NCSU |
| GS11-099     | 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 |
| GS11-102     | 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 |
| GS11-104     | 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 |
| GS10-088     | 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 |
| GS10-089     | 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 |
| GS10-091     | Managing field borders for weed seed predators                                                   | $9,856  | Dr. S. Chris Reberg-Horton  
North Carolina State University  
Aaron Fox  
North Carolina State University |
| GS10-094     | 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

Yasmin Cardoza
North Carolina State University
Amos Little
North Carolina State University

Southeastern North Carolina Food Systems Project

Leslie Hossfeld
University of North Carolina Wilmington
Raven Bruno
UNCW

Elucidating the role of cellulases involved in biological control of Phytophthora root rot

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

Dr. S. 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

Dr. Wei Shi
North Carolina State University
Lei Tian
North Carolina State University

Cover crop mulches for no-till organic onion production

Dr. Nancy Creamer
North Carolina State University
Emily Vollmer

Potential of grafting to improve nutrient management of heirloom tomatoes on organic farms

Mary Peet
North Carolina State University
Dr. Frank Louws
NC State University
Suzanne O’Connell
North Carolina State University

Omega-3 Purlsane Eggs

Thomas Rufty
NCSU Crop Science Department
Laura Vance
NCSU Crop Science Department

Effects of management practices and plant growth regulators on the allelopathic potential of rye (Secale cereale)

James Burton
North Carolina State University
David Danehower
North Carolina State University
Christine Sickler
North Carolina State University

Testing Technologies for Affordable Bioshelters

Mary Hoepfl
Appalachian State University
Yonatan Strauch
Appalachian State University


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

Inducing Disease Resistance and Increased Production in Organic Heirloom Tomato Production Through Grafting

Dr. Frank Louws
NC State University
Cary Rivard
North Carolina State University

Optimizing substrates, composts, and fertilizer transplant additions for organic transplant production

Mary Peet
North Carolina State University
Elizabeth Larrea
North Carolina State University
Effects of Tillage, Rotation, and Organic Inputs on Soil Ecological Properties in Vegetable Crop Production Systems

Natural Vegetation and its Influence on Weed Populations in Neighboring Fields

Evaluation of Beneficial Insect Habitat for Organic Farms

Breeding a better cover crop: a screen of rye germplasm for weed suppression

Interactions between predators and insect-parasitic nematodes in soil

Evaluation of Cover Crops and Conservation Tillage for Conventional and Organic Sweetpotato (Ipomoea batatas) Production in North Carolina

On-farm Trials to Evaluate New Tomato Breeding Lines with Verticillium Wilt Race 2 Tolerance

Southern Pea (Vigna unguiculata) Production Under Conservation Tillage Systems in North Carolina

Evaluating Scale-appropriate Technology for Organic No-till Vegetable Production

Regenerative Grazing to Mitigate Climate Change

Demonstration of Root Zone Heating Supported by the Developed Biomass Greenhouse Heating System

Evaluating On-Farm Use of Multi-Species Cover Crops

Optimizing biological control of greenhouse pests with banker plant systems

Increasing on-farm sustainability through agritourism research: An examination of agritourism visitors, farms, and marketing strategies

Grafting Heirloom Tomatoes on Disease Resistant Rootstock in Western North Carolina

GS04-035 Effects of Tillage, Rotation, and Organic Inputs on Soil Ecological Properties in Vegetable Crop Production Systems $9,998 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. S. 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

ON FARM RESEARCH/PARTNERSHIP GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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</thead>
<tbody>
<tr>
<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 NC State University</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. Kim Tungate University of Mount Olive</td>
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<tr>
<td>OS19-129</td>
<td>Evaluating Scale-appropriate Technology for Organic No-till Vegetable Production</td>
<td>$14,904</td>
<td>Karen McSwain Carolina Farm Stewardship Association</td>
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<td>OS19-125</td>
<td>Regenerative Grazing to Mitigate Climate Change</td>
<td>$14,787</td>
<td>Saskia Cornes 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 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 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 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 North Carolina State University</td>
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<tr>
<td>OS09-046</td>
<td>Grafting Heirloom Tomatoes on Disease Resistant Rootstock in Western North Carolina</td>
<td>$4,960</td>
<td>Susan Colucci NC Cooperative Extension</td>
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</tbody>
</table>
OS09-050 Development and Implementation of On-Farm Biological Soil Disinfestation to Manage Soilborne Diseases In Organic Strawberry Production Systems $15,000 Dr. Frank Louws NC State University

OS08-042 New Tools to Make Organic No-till Soybeans and Corn a Reality $14,917 Dr. S. Chris Reberg-Horton North Carolina State University

OS07-038 On-Farm Biofuel Production from Sweet Sorghum Juice $14,898 Matthew Veal North Carolina State University

OS06-032 Opportunities for pasture-raised Jersey beef in the Southeast $14,952 Dr. Steven Washburn North Carolina State University

OS05-025 Salmonella Contamination and Antibiotic Resistance on Pastured Poultry and Conventional Poultry Farms $9,542 Cedarose Siemon Independent Research Scientist

SUSTAINABLE COMMUNITY INNOVATION GRANTS

<table>
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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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<tbody>
<tr>
<td>CS15-092</td>
<td>How Local Food System Development Affects the Sustainability of Agriculture: The Impact of Farmer-Consumer Interactions on Production Practices</td>
<td>$34,830</td>
<td>Charlie Jackson Appalachian Sustainable Agriculture Project</td>
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<tr>
<td>CS12-088</td>
<td>Community Farm &amp; Food Project Phase II - Initiation</td>
<td>$9,996</td>
<td>Allison Kiehl Southern Appalachian Highlands Conservancy</td>
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<tr>
<td>CS11-086</td>
<td>Community Farm and Food Project Phase I - Assessing Needs and Building Partnerships</td>
<td>$10,000</td>
<td>Allison Kiehl Southern Appalachian Highlands Conservancy</td>
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<td>CS10-079</td>
<td>PolkFresh TradePost Project: A Strategy to Implement Polk County's 20/20 Vision plan for Sustainable Community Development</td>
<td>$10,000</td>
<td>Carol Lynn Jackson PolkFresh TradePost Project</td>
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<tr>
<td>CS10-082</td>
<td>Farming and Agricultural Recommendations for Mount Pleasant (F.A.R.M.)</td>
<td>$10,000</td>
<td>Stacy Piehl Town of Mount Pleasant Michael Robertson Town of Mount Pleasant</td>
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<td>CS09-070</td>
<td>Stecoah Kitchen Entrepreneurship &amp; Agri-tourism Project</td>
<td>$10,000</td>
<td>Beth Fields Stecoah Valley Arts, Crafts &amp; Educational Center, Inc.</td>
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<td>CS08-063</td>
<td>SNAP! A Sustainable Network at Polk From Farm to Fork and back to Farm again</td>
<td>$10,000</td>
<td>Mary Lyth</td>
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<td>CS07-055</td>
<td>Stecoah Kitchen Entrepreneurship &amp; Agri-Tourism Project</td>
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<td>Beth Fields Stecoah Valley Arts, Crafts and Educational Center, Beth Fields Stecoah Valley Arts, Crafts &amp; Educational Center, Inc.</td>
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<td>CS06-045</td>
<td>Establishing community and business partnerships to build a market identity for local seafood</td>
<td>$9,950</td>
<td>Jennifer Ulz Carteret Community College</td>
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<td>CS06-050</td>
<td>Getting your small farm products to market / a three county program to solve product logistics: marketing/sales, product development, packages and labeling, transportation</td>
<td>$40,000</td>
<td>David Kendall North Carolina Cooperative Extension</td>
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<td>PI/Institution</td>
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<td>CS05-033</td>
<td>Women Farmers Building a Healthy Community and Economy in the High Country</td>
<td>$9,900</td>
<td>Chelly Richards Blue Ridge Women in Agriculture (BRWIA)</td>
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<td>CS04-021</td>
<td>A Strategy for Sustaining Henderson County Agricultural Communities</td>
<td>$8,500</td>
<td>Lori Sand Henderson County Planning Department</td>
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<td>CS04-027</td>
<td>Agricultural Community Support Across Boundaries</td>
<td>$10,000</td>
<td>Tom Elmore Land-of-Sky Regional Council</td>
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<td>CS04-030</td>
<td>Healthy Livestock Agriculture &amp; Healthy People: Connecting Local Pasture-Raised Food and Consumers in Central North Carolina</td>
<td>$10,000</td>
<td>Sally Norton Program on Integrative Medicine</td>
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<td>CS03-009</td>
<td>Strengthening Rural Communities Through Direct Marketing</td>
<td>$9,941</td>
<td>Gerry Alfano Park and Recreation-Greensboro Farmers Curb Market Susan Andreatta University of North Carolina at Greensboro</td>
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<td>CS03-018</td>
<td>New River Sustainable Agriculture Marketing Plan</td>
<td>$10,000</td>
<td>Hollis Wild Appalachian Trees</td>
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<td>CS02-005</td>
<td>SE North Carolina Agri-Tourism Corridor Development</td>
<td>$7,000</td>
<td>Mikki Sager The Conservation Fund</td>
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**Total funding from the USDA SARE program to North Carolina**

$14,472,457

For further information on projects, contact Candace Pollock, Southern SARE public relations coordinator, at (770) 412-4786 or cpollock@uga.edu.

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