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 $309 million to more than 7,407 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

$13,282,479 in total funding
202 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: 202 grants
- 55 Farmer/Rancher
- 39 Graduate Student
- 12 On Farm Research/Partnership
- 28 Professional Development Program
- 68 Research and Education

Total funding: $13,282,479
- $399,346 Farmer/Rancher
- $411,950 Graduate Student
- $163,802 On Farm Research/Partnership
- $2,285,252 Professional Development Program
- $10,022,129 Research and Education

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.
AGRICULTURE PROJECTS FUNDED IN NORTH CAROLINA
by USDA’s Sustainable Agriculture Research and Education (SARE) Program

North Carolina has been awarded $13,502,596 grants to support 214 projects, including but not limited to, 63 research and/or education projects, 28 professional development projects and 55 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>
</tr>
</thead>
</table>
| LS20-321  | Small Ruminant Producers Program: A pilot program for small ruminant producers and county agents | $31,895      | Kingsley Ekwemalor  
NC A&T  
Dr.Andrea Gentry-Apple  
North Carolina Agricultural and Technical State University  
Johnny Rogers  
North Carolina State University |
| LS20-323  | Building Resilient and Successful Farm Businesses in the Southern Appalachians | $50,000      | Cameron Farlow  
Organic Growers School |
| LS20-326  | Promoting Southeastern Agriculture Resilience with Carbon Farm Planning        | $50,000      | Michelle Lovejoy  
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 |
| LS20-333  | Development of a Sustainable Cropping System for Industrial Hemp Production by Limited Resource Farmers | $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 |
| LS20-336  | Navigating Financial and Mental Health Crises                                  | $299,959     | Laketa Smith  
The Rural Advancement Foundation International - USA  
Scott Marlow  
RAFI-USA  
Savi Horne  
Land Loss Prevention Project  
Robert Maggiani  
NCAT  
Robin Tutor-Marcom  
North Carolina Agromedicine Institute, East Carolina University |
<table>
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<tr>
<th>Project Code</th>
<th>Project Title</th>
<th>Budget</th>
<th>Principal Investigator</th>
<th>Affiliation</th>
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<tr>
<td>LS19-310</td>
<td>Cool-season Annual Grass, Grass-Forb, and Grass-Legume Forage Systems for Southeastern Beef Cattle Production</td>
<td>$270,708</td>
<td>Deidre Harmon</td>
<td>NC State University</td>
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<td>LS18-294</td>
<td>Promoting Adoption of Cover Crops in Southeastern Farming Systems</td>
<td>$48,000</td>
<td>Michelle Lovejoy</td>
<td>NC Foundation for Soil and Water Conservation</td>
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<td>LS18-303</td>
<td>CEFS Long-term Systems Research: Providing the Building Blocks for Resilient Food Production Systems Phase III</td>
<td>$100,000</td>
<td>Dr.S. Chris Reberg-Horton</td>
<td>North Carolina State University</td>
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<td>LS17-279</td>
<td>Enhancing System Sustainability by Mitigating the Impact of Three Major Constraints to Efficient Cowpea Production and Use: Pests, Pollination and Nodulation</td>
<td>$210,000</td>
<td>Dr.Beatrice Dingha</td>
<td>North Carolina A&amp;T State University</td>
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<tr>
<td>LS17-280</td>
<td>A Supply Chain Approach to Finding Win-win Sustainable Solutions for Edible But Unharvested Produce</td>
<td>$219,971</td>
<td>Rebecca Dunning</td>
<td>North Carolina State University Horticulture</td>
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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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<tr>
<td>LS17-285</td>
<td>Growing Local - Phase III</td>
<td>$300,000</td>
<td>Charlie Jackson</td>
<td>Appalachian Sustainable Agriculture Project</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>
<td>$300,000</td>
<td>Dr.S. Chris Reberg-Horton</td>
<td>North Carolina State University</td>
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<td>LS14-260</td>
<td>Growing Local – Phase II</td>
<td>$299,943</td>
<td>Charlie Jackson</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>
<td>North Carolina State University</td>
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<tr>
<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>
<td>NCSU</td>
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<td>LS11-239</td>
<td>Growing Local – Phase I</td>
<td>$296,645</td>
<td>Charlie Jackson</td>
<td>Appalachian Sustainable Agriculture Project</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>
<td>North Carolina State University</td>
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<tr>
<td>Grant ID</td>
<td>Project Title</td>
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<td>Principal Investigator(s)</td>
<td>Institution</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>
<td>$175,000</td>
<td>Sang Hyon Oh&lt;br&gt;North Carolina A&amp;T State University</td>
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<tr>
<td>LS08-203</td>
<td>Exploiting the organic peanut market: refining production systems for the Southeast</td>
<td>$175,000</td>
<td>Mark Boudreau&lt;br&gt;Hebert Green Agroecology, Inc.&lt;br&gt;Dr. Mark Boudreau&lt;br&gt;Hebert Green Agroecology</td>
<td>North Carolina A&amp;T State University</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>
<td>Dr. James Mueller&lt;br&gt;North Carolina 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&lt;br&gt;Appalachian Sustainable Agriculture Project</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&lt;br&gt;North Carolina State University</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 Born Diseases and to Increase Nutrient Uptake Efficiency in an Intensive Farming System for Market Gardeners</td>
<td>$193,000</td>
<td>Mary Peet&lt;br&gt;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&lt;br&gt;Hebert Green Agroecology, Inc.</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&lt;br&gt;North Carolina State University</td>
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<tr>
<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&lt;br&gt;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&lt;br&gt;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&lt;br&gt;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&lt;br&gt;Rural Advancement Foundation International - USA</td>
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<tr>
<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&lt;br&gt;NCSU -- Crop Science Department</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&lt;br&gt;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&lt;br&gt;North Carolina State University</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&lt;br&gt;NC A&amp;T State University</td>
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<tr>
<td>Project Code</td>
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<td>Amount</td>
<td>PI Name</td>
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<td>LS02-134</td>
<td>The Importance of Genetics: Biological fitness and productivity in</td>
<td>$182,386</td>
<td>Marjorie Bender</td>
<td>American Livestock Breeds Conservancy</td>
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<td>range-based systems comparing standard turkey varieties and industrial stocks</td>
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<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</td>
<td>North Carolina State University</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. James Mueller</td>
<td>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</td>
<td>American Livestock Breeds Conservancy</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</td>
<td>University of North Carolina at Greensboro</td>
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<td>William Wicklife, II</td>
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<td>North Carolina State Cooperative Extension</td>
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<td>LS00-110</td>
<td>The Impact of Agricultural Systems on Soil Quality and Sustainability</td>
<td>$191,263</td>
<td>Mary Barbercheck</td>
<td>North Carolina State University</td>
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<td>LS99-106</td>
<td>Integrated Crop and Sylvan Systems with Swine: A State and National Initiative</td>
<td>$156,262</td>
<td>Charles Talbott</td>
<td>NCA&amp;T 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</td>
<td>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. James Mueller</td>
<td>North Carolina State University</td>
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<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</td>
<td>Center for Sustainable Systems</td>
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<td>LS97-086</td>
<td>Equal Access to Agriculture Programs and Opportunities</td>
<td>$151,290</td>
<td>David Harris</td>
<td>Land Loss Prevention Project</td>
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<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</td>
<td>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</td>
<td>North Carolina State University</td>
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<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</td>
<td>North Carolina State University</td>
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</table>
LS94-059  Assessing the Impact of Beneficial Insect Populations on Organic Farms (AS94-013) $17,735  George Kennedy  
North Carolina State University

LS94-060  Animal Waste, Winter Cover Crops, and Biological Antagonists for Sustained Management of Nematodes on Cotton $46,721  Kenneth R. Barker  
North Carolina State University

LS94-063  Regional Center for Sustainable Dairy Farming $180,497  Dr. Steven Washburn  
North Carolina State University

LS92-045  Organic Nitrogen Sources for Sweetpotatoes: Production Potential and Economic Feasibility $105,000  Wanda W. Collins  
North Carolina State University, Horticultural Science

LS91-035  Improved Nitrogen Use-Efficiency in Cover Crop Based Production Systems $179,992  Michael G. Wagger  
North Carolina State University

LS91-032  Economically Viable Production of Vegetables in The Southern Region Using Low-input and Sustainable Techniques: A Database $37,000  Mary Peet  
North Carolina State University

LS90-026  Swine Waste — Low-cost Alternative to Commercial Fertilizer for Production of Forage for Grazing Cattle $50,000  Dr. James Mueller  
North Carolina State University

LS89-014  On-Farm Demonstrations and Research of Low-input Sustainable Farming $100,000  William W. Dow  
Carolina Farm Stewardship Association

LS89-018  Composting Poultry Litter — Economics and Market Potential of a Renewable Resource $15,000  L. M. Safley  
North Carolina State University

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

LS88-006  Planning Grant: On-farm Demonstration of Low-input Farming $15,000  William W. Dow  
Carolina Farm Stewardship Association

LS88-009  A Comparison of Cropping Systems Managed Conventionally or with Reduced Chemical Input $255,000  Larry King  
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 |
<table>
<thead>
<tr>
<th>Grant Code</th>
<th>Project Title</th>
<th>Budget</th>
<th>Investigator(s)</th>
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<td>SC14-001</td>
<td>Institutionalizing Cover Crop Research and Education in the Southeast</td>
<td>$129,712</td>
<td>Dr. S. Chris Reberg-Horton North Carolina State University</td>
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<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 North Carolina A&amp;T State University</td>
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<tr>
<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 N.C. State University</td>
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<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 NC State Extension / CEFS</td>
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<tr>
<td>ES10-103</td>
<td>Building Capacity: Farm to School</td>
<td>$78,303</td>
<td>Emily Jackson Appalachian Sustainable Agriculture Project</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 North Carolina State University</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 NC A&amp;T SU Cooperative Extension Program</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 North Carolina State University</td>
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<td>ES08-093</td>
<td>Agritourism Training for Agriculture Professionals</td>
<td>$82,986</td>
<td>Kent Wolfe CAED</td>
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<tr>
<td>ES08-090</td>
<td>An agent Training Program in Safe Food Handling &amp; Legal Liability</td>
<td>$77,344</td>
<td>Diane Ducharme NCSU</td>
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<td>ES08-092</td>
<td>Energy Training for Agricultural Professionals in the Southern SARE Region</td>
<td>$97,684</td>
<td>Mike Morris National Center for Appropriate Technology Steve Moore Center for Environmental Farming Systems</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 North Carolina State University</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 American Livestock Breeds Conservancy</td>
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<td>ES05-079</td>
<td>Direct Market Training for Agricultural Professionals</td>
<td>$96,757</td>
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<td>ES03-065</td>
<td>Building Sustainable Soil Systems</td>
<td>$119,848</td>
<td>Wilfred Cromartie SARE</td>
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<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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<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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</table>
**Training in Alternative Research Strategies for Sustainable Farming Systems**  
ES00-047

Training in Alternative Research Strategies for Sustainable Farming Systems  
Noah Ranells  
NCSU (former staff)  
Phil Rzewnicki  
NCSU  
Keith Baldwin  
NC A&T State University  
$101,800

**Multimedia Training Resources on Sustainable Greenhouse Vegetable Production**  
ES99-043

Multimedia Training Resources on Sustainable Greenhouse Vegetable Production  
Mary Peet  
North Carolina State University  
$39,887

**Multi Disciplinary Training on Pasture-Based Dairy Systems - A Sustainable Alternative for the Region**  
ES98-039

Multi Disciplinary Training on Pasture-Based Dairy Systems - A Sustainable Alternative for the Region  
Dr. Steven Washburn  
North Carolina State University  
$53,429

**Grazing Management Training to Enhance the Sustainability of Pasture-Based Beef Production Systems**  
ES98-040

Grazing Management Training to Enhance the Sustainability of Pasture-Based Beef Production Systems  
Jim Green  
North Carolina State University, Crop Science Dept.  
$31,745

**Training in Agriculture Program (TAP)**  
ES98-042

Training in Agriculture Program (TAP)  
Dorothy Barker  
Operation Spring Plant, Inc.  
$17,890

**Southern Region Sustainable Ag Training Consortium**  
ES97-014

Southern Region Sustainable Ag Training Consortium  
Roger G. Crickenberger  
North Carolina State University  
$116,723

**Building Capacity in Sustainable Agriculture: A Comprehensive Training Program in Organic Farming Systems**  
ES97-025

Building Capacity in Sustainable Agriculture: A Comprehensive Training Program in Organic Farming Systems  
Dr. Nancy Creamer  
North Carolina State University  
$97,500

**Southern Region Sustainable Agriculture Training Consortium (LST96-8)**  
LST94-001

Southern Region Sustainable Agriculture Training Consortium (LST96-8)  
Roger G. Crickenberger  
North Carolina State University  
$199,620

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### FARMER/RANCHER GRANTS

<table>
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<tr>
<th>Project #</th>
<th>Project Title</th>
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<th>Project Leaders</th>
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| FS19-313  | Bee Pollen Identification for Increased Sustainability | $9,938 | Ryan Higgs  
Blue Ridge Apiaries  |
| FS18-305  | Growing Upland Rice for the Local Food Market | $9,773 | Gregory Chatham  |
| FS18-307  | Weed Control Among Brambles: Biodegradable paper barrier or plastic barrier? | $3,050 | Danielle Crocker  |
| FS13-264  | Pastured Rabbit Integrated Farming Project | $2,000 | Michelle Bernard  
Spellcast Farm  |
| FS13-265  | Sustainable Forages as an Alternative to Supplemental Feeding | $9,798 | Ryan Higgs  
Blue Ridge Apiaries  |
| FS13-268  | Closed Loop Mushroom Production on 100% Waste Substrate | $7,623 | joseph allawos  
Asheville Fungi  |
| FS13-274  | Comparing Season Extension Mechanisms on Winter Green Production in the Southern Appalachian Mountains | $3,737 | Paul Littman  
Ivy Creek Family Farm  |
| FS12-260  | Encouraging Expanded Organic Sweet Potato Production in North Carolina | $15,000 | John Kimber  
NC SweetPotato Commission Foundation  |
FS11-252 Impact of Supplemental Feed Type on Winter Survival of Honey Bee Colonies $9,957 Barry Harris, Jr. Silver Spoon Apiaries, Inc

FS10-244 Sustainable Honeybee Strains for Western North Carolina $9,959 Ryan Higgs Blue Ridge Apiaries

FS09-232 Natural Controls for Honey Bee Pests $10,000 Scott Barlow

FS09-237 Growing Organic Hops for the Local Market $8,268 Rita Pelczar Blue Ridge Hops

FS09-239 Wasabi Production $8,649 Deidra Smith Amy Sue Blum SARE Southern Region

FS09-240 Early growing season strategy $3,482 Hollis Wild Appalachian Trees

FS08-230 Building Capacity for Pastured Poultry Production in Western North Carolina $7,755 Casey McKissick

FS07-216 Season Extension for Winter CSA and Restaurant Sales $5,829 Annie Louise Perkinson

FS07-220 Meeting the Needs of Microbreweries with Fresh Hops Production $9,762 Linda Sakiewicz

FS06-197 Increasing Economic Viability and Promoting Sustainable Agriculture through Agritourism $7,485 Amy Ager Hickory Nut Gap Farm – Spring House Meats

FS06-199 Capillary Irrigation for Container Nurseries: a practical alternative to overhead irrigation? $9,867 Ellen J. Colodney Coastal Plain Conservation Nursery, Inc

FS06-206 A Diversifying and Marketing Strategy for Sustaining Small Farm Agriculture $9,976 Nancy C. Moretz

FS06-211 Value from byproducts of the Southern Wine Grape Industry $9,925 Ben Webb Sandy Cross Vineyard

FS04-185 Farmstead Cheese (Queso Blanco) for the Latino Food Market $4,361 Tom Shore

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

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
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<td>Short- and Long-term Crop Replacement Project</td>
<td>$9,787</td>
<td>Phillis Kenlaw</td>
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<td>FS03-171</td>
<td>Dairy Goat Woodland Grazing Project</td>
<td>$9,900</td>
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<td>144 Celebrity Dairy Way</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>
<td>Watauga River Farms</td>
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<td>FS02-152</td>
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<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>
<td>Robert Eidus</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>
<td>$9,050</td>
<td>Andy Youngblood</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>Carl Weston</td>
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<td>Effects of Cover Crops on Weed and Insect Management in Blackberries</td>
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<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>
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<td>FS98-068</td>
<td>Late Blight Suppression in Tomatoes Using Competing Fungi on Leaf Surfaces</td>
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<td>FS98-071</td>
<td>Workshop on Parasite Control Through On-Farm Fecal Studies</td>
<td>$6,545</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>
<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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</table>
Effect of Different Application Rates of Swine Lagoon Effluent on Corn and Wheat $2,317 John Hart

Forest Site Preparation with Swine $5,088 Thomas Livingston

Aquaculture Conversion Model Emphasizing Poultry and Hog Facilities Re-Use and Recycled On-Farm Resources $6,000 Benny Bunting

Identification of Cover Crops to Enhance the Habitat of Specific Beneficial Insects in Sustainable Production Systems $8,452 Kenny Haines Misty Morning Farm

Multiple On-Farm Use of Aquatic Plants and Animals $9,575 Harvey Harman Sustenance Farm

Alternatives to Chemicals in the Peanut Cotton Rotation $9,366 Hubert Morris

Hydroponic Vegetable Production in Conjunction with a Trout Farming Operation $9,975 Carl Zietlow Best Trout and Organic Farm

Demonstration of High Value, Small Scale Sustainable Vegetable and Fruit Production Methods $9,612 Larry and Judy McPherson

Perennial Warm Season Grasses as Summer Pasture $733 Norman and Karen Jordan

Meat Goats for Weed Control and Alternative Income on Cattle Operations $2,020 Tony Kern KC Ranch

Plant Shelters to Extend the Growing Season for Herbs $3,550 Richard Morgan Harmony Herb Farm

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

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

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 Jordan Cox-O’Neill North Carolina State University

Optimizing Electrical and Mechanical Palmer Amaranth Control and Reducing Seed Production and Viability $16,498 Dr. Katherine Jennings Levi Moore 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  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

GS14-135  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

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

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  
North Carolina 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

GS10-094  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

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
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<tr>
<th>Project ID</th>
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<tr>
<td>GS10-089</td>
<td>The Black Pearl Pepper Banker Plant for Biological Control of Thrips in Commercial Greenhouses</td>
<td>$9,959</td>
<td>Dr. Steven Frank North Carolina State University, Sarah Wong North Carolina State University</td>
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<td>GS10-091</td>
<td>Managing field borders for weed seed predators</td>
<td>$9,856</td>
<td>Dr. S. Chris Reberg-Horton North Carolina State University, Aaron Fox North Carolina State University</td>
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<td>GS09-078</td>
<td>Evaluating vermicompost mediated host plant resistance as a sustainable alternative to manage agricultural insect pests</td>
<td>$9,810</td>
<td>Yasmin Cardoza North Carolina State University, Amos Little North Carolina State University</td>
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<tr>
<td>GS08-067</td>
<td>Southeastern North Carolina Food Systems Project</td>
<td>$10,000</td>
<td>Leslie Hossfeld University of North Carolina Wilmington, Raven Bruno UNCW</td>
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<td>GS08-068</td>
<td>Elucidating the role of cellulases involved in biological control of Phytophthora root rot</td>
<td>$9,931</td>
<td>George Place North Carolina State University, Kelly Ivors North Carolina State University, Brantlee Spakes Richter North Carolina State University</td>
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<tr>
<td>GS08-073</td>
<td>Traits of Interest for Improving Weed Suppressive Ability in Soybean During the Critical Period for Weed Competition</td>
<td>$9,972</td>
<td>Dr. S. Chris Reberg-Horton North Carolina State University, Kelly Ivors North Carolina State University, George Place North Carolina State University</td>
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<td>GS08-076</td>
<td>Chemistry and Biodegradability of Dissolved Soil Organic Matter in Diverse Farming Systems</td>
<td>$9,850</td>
<td>Dr. Wei Shi North Carolina State University, Lei Tian North Carolina State University</td>
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<td>GS07-058</td>
<td>Cover crop mulches for no-till organic onion production</td>
<td>$10,000</td>
<td>Dr. Nancy Creamer North Carolina State University, Emily Vollmer North Carolina State University, Dept. Hort. Sci.</td>
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<td>GS07-060</td>
<td>Potential of grafting to improve nutrient management of heirloom tomatoes on organic farms</td>
<td>$10,000</td>
<td>Mary Peet North Carolina State University, Dr. Frank Louws North Carolina State University, Suzanne O’Connell North Carolina State University</td>
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<tr>
<td>GS07-062</td>
<td>Omega-3 Purlsane Eggs</td>
<td>$10,000</td>
<td>Thomas Rufty NCSU Crop Science Department, Laura Vance NCSU Crop Science Department</td>
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<td>GS06-051</td>
<td>Effects of management practices and plant growth regulators on the allelopathic potential of rye (Secale cereale)</td>
<td>$9,780</td>
<td>James Burton North Carolina State University, David Danehower North Carolina State University, Christine Sickler North Carolina State University</td>
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<tr>
<td>GS06-052</td>
<td>Testing Technologies for Affordable Bioshelters</td>
<td>$9,914</td>
<td>Mary Hoepfl Appalachian State University, Yonatan Strauch Appalachian State University</td>
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</table>
Inducing Disease Resistance and Increased Production in Organic Heirloom Tomato Production Through Grafting

Effects of Tillage, Rotation, and Organic Inputs on Soil Ecological Properties in Vegetable Crop Production Systems

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

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

GS01-008
Breeding a better cover crop: a screen of rye germplasm for weed suppression

GS00-004
Interactions between predators and insect-parasitic nematodes in soil

GS00-006
Evaluation of Cover Crops and Conservation Tillage for Conventional and Organic Sweetpotato (Ipomoea batatas) Production in North Carolina

Project # | Project Title | SARE Support | Project Leaders
--- | --- | --- | ---
OS19-129 | Evaluating Scale-appropriate Technology for Organic No-till Vegetable Production | $14,904 | Karen McSwain Carolina Farm Stewardship Association

OS19-125 | Regenerative Grazing to Mitigate Climate Change | $14,787 | Saskia Cornes Duke University

OS18-123 | Demonstration of Root Zone Heating Supported by the Developed Biomass Greenhouse Heating System | $14,883 | Dr.Ok-Youn Yu Appalachian State University

OS17-105 | Evaluating On-Farm Use of Multi-Species Cover Crops | $15,000 | Michelle Lovejoy NC Foundation for Soil and Water Conservation

OS10-052 | Optimizing biological control of greenhouse pests with banker plant systems | $14,959 | Steven Frank NCSU

OS10-055 | Increasing on-farm sustainability through agritourism research: An examination of agritourism visitors, farms, and marketing strategies | $15,000 | Dr.Samantha Rich North Carolina State University

OS09-046 | Grafting Heirloom Tomatoes on Disease Resistant Rootstock in Western North Carolina | $4,960 | Susan Colucci NC Cooperative Extension
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| 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  
North Carolina 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**

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</table>
| CS15-092  | 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                                          |
| CS12-088  | Community Farm & Food Project Phase II - Initiation                           | $9,996       | Allison Kiehl  
Southern Appalachian Highlands Conservancy                                             |
| CS11-086  | Community Farm and Food Project Phase I - Assessing Needs and Building Partnerships | $10,000     | Allison Kiehl  
Southern Appalachian Highlands Conservancy                                             |
| CS10-079  | 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                                                               |
| CS10-082  | 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                                                             |
| CS09-070  | Stecoah Kitchen Entrepreneurship & Agri-tourism Project                        | $10,000      | Beth Fields  
Stecoah Valley Arts, Crafts & Educational Center, Inc.                                |
| CS08-063  | SNAP! A Sustainable Network at Polk From Farm to Fork and back to Farm again | $10,000      | Mary Lyth                                                                 |
| CS07-055  | 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.                                |
| CS06-045  | Establishing community and business partnerships to build a market identity for local seafood | $9,950       | Jennifer Ulz  
Carteret Community College                                                             |
| CS06-050  | 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                                                   |
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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</td>
<td>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</td>
<td>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</td>
<td>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</td>
<td>Program on Integrative Medicine</td>
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<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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<td>CS03-009</td>
<td>Strengthening Rural Communities Through Direct Marketing</td>
<td>$9,941</td>
<td>Gerry Alfano</td>
<td>Park and Recreation-Greensboro Farmers</td>
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<td>Susan Andreatta</td>
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<td>University of North Carolina at Greensboro</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</td>
<td>The Conservation Fund</td>
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**Total funding from the USDA SARE program to North Carolina**

$13,502,596

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

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