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 $389 million to more than 8,542 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, grantee-produced information products and other educational materials.

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

Georgia

Project Highlight: Wildflower Plots Boost Yields and Pollinators

The extensive loss in managed honeybee hives seen in recent years poses serious challenges to the farmers who grow crops that require pollination. Lower yields and higher pollination costs are the main threats to their businesses. Part of the solution is native bees. Across the country, far-sighted researchers and farmers are recognizing the importance of finding practices that increase native bee populations before a larger crisis hits.

In Georgia, one such farmer, Joe Dickey, has used two SARE grants to study the native bees present in his apple orchards and to establish wildflower plots that support their numbers. The effect on his apple crop was immediate: In 2016, apple production rose 30 percent from the previous two years when the wildflowers were absent from his orchard. Dickey’s next step is to compare annual wildflowers to perennial wildflowers to see which type is best at recruiting native bees.

At the same time, Dickey has been collaborating with Georgia Gwinnett College researcher Mark Schlueter on a series of five SARE grants to identify which native bees are best at pollinating apples. After looking at dozens of species, Schlueter discovered a mining bee that outshines the rest as an apple pollinator which farmers should prioritize. For more information on these projects, see sare.org/projects, and search for project numbers FS16-290 and FS17-296.

SARE in Georgia

southern.sare.org/sare-in-your-state/georgia

$12,574,142 in total funding

152 grant projects

(since 1988)

For a complete list of grant projects state by state, go to www.sare.org/state-summaries

www.sare.org
SARE Grants in Georgia

Total awards: 152 grants
58 Research and Education
10 Sustainable Community Innovation
8 Professional Development Program
31 Farmer/Rancher
23 Graduate Student
12 On Farm Research/Partnership
10 Education Only

Total funding: $12,574,142
$10,683,611 Research and Education
$96,594 Sustainable Community Innovation
$599,596 Professional Development Program
$265,353 Farmer/Rancher
$273,579 Graduate Student
$197,558 On Farm Research/Partnership
$457,851 Education Only

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/georgia

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/georgia to learn more.

Timothy Coolong
University of Georgia
(706) 542-2471
tcoolong@uga.edu

Mark Latimore
Fort Valley State University
(475) 825-6327
latimorm@fvsu.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 GEORGIA
by USDA’s Sustainable Agriculture Research and Education (SARE) Program

Georgia has been awarded $12,574,142 grants to support 149 projects, including but not limited to, 55 research and/or education projects, 8 professional development projects and 31 producer-led projects. Georgia 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>
| LS23-386  | Building-in Soil and Market Diversity for Greater Farm and Community Wellbeing                                                                      | $378,000     | Dr. Dorcas Franklin
University of Georgia, Crop and Soil Sciences
Kate Cassity-Duffey
University of Georgia
Mussie Habteselassie
University of Georgia-Griffin Campus
Dr. Stacie Harrison Barrett
Fort Valley State University
Dr. Kishan Mahmud
University of Arkansas
Dr. Laura Ney
University of Georgia |
| LS23-387  | Labor Demands and Hiring Practices of Southern Cattle-Dairy Farmers Under H-2A Program’s Current Guidelines and Proposed Modifications                                      | $345,000     | Dr. Cesar Escalante
University of Georgia
Dr. Shaheer Burney
University of Wisconsin - River Falls
Dr. Alejandro Gutierrez-Li
North Carolina State University
Dr. Grace Melo
Texas A & M University
Dr. Sushil Paudyal
Texas A&M University
Luis Peña-Lévano
University of Wisconsin - River Falls |
| LS22-368  | Managing Markets: Assessing the Relationship Between Farmers Market Management and Farmers’ Economic Viability and Quality of Life                                                                                 | $300,000     | Dr. Hilary King, PhD
Emory University
Emily Burchfield
Emory University
Marcus Coleman
Tulane University
Dr. Sarah Franzen
Louisiana State University
Dr. Andrea Rissing
School of Sustainability, Arizona State University |
| LS21-358  | Small Farms and Big Market Barriers                                                                                                                                                                          | $400,000     | Dr. Niki Whitley
Fort Valley State University
Dr. James Brown
Fort Valley State University |
University of Georgia
Dr. Julie Campbell
Department of Horticulture, University of Georgia
Dr. Cesar Escalante
University of Georgia |
<table>
<thead>
<tr>
<th>Project Code</th>
<th>Title</th>
<th>Funding</th>
<th>Principal Investigator(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS21-362</td>
<td>How Technology Enhances or Impedes Sustainable Agriculture for Black Limited Resource Farmers in the Southeast Black Belt Region</td>
<td>$199,840</td>
<td>John Littles, Sr. McIntosh SEED James Ford Square O Consulting LLC Handy Kennedy, Jr. HKJ Ranch</td>
</tr>
<tr>
<td>LS20-339</td>
<td>Exploring Agritourism to Increase Agricultural Sustainability and Resilience in the Municipality of Utuado, Puerto Rico</td>
<td>$300,000</td>
<td>Dr. Patrick Holladay Troy University Dr. Katja Brundiers Arizona State University Dr. Pablo Méndez-Lázaro University of Puerto Rico</td>
</tr>
<tr>
<td>LS20-340</td>
<td>Pecan Hedge-pruning: A Sustainable Management Option for the Southeastern US</td>
<td>$299,894</td>
<td>Dr. Jason Schmidt University of Georgia</td>
</tr>
<tr>
<td>LS19-309</td>
<td>Evaluating the Impact of Biostimulants on Blueberry Growth and Soil Biological Health</td>
<td>$297,119</td>
<td>Mussie Habtseleslassie University of Georgia-Giffin Campus</td>
</tr>
<tr>
<td>LS18-299</td>
<td>Sustainable Management Options for Whitefly-transmitted Viruses in Cucurbit Production</td>
<td>$290,000</td>
<td>Dr. Rajagopalbabu Srinivasan University of Georgia</td>
</tr>
<tr>
<td>LS18-298</td>
<td>Biocontrol with Benefits: Enhancing Sustainability by Adding Value</td>
<td>$260,000</td>
<td>Dr. David Shapiro-Ilan USDA-ARS</td>
</tr>
<tr>
<td>LS18-301</td>
<td>Expanding Marketing Opportunities for Dried Nutraceutical Sericea Lespedeza Products for Small-scale Farmers</td>
<td>$290,000</td>
<td>Thomas Terrill Fort Valley State University</td>
</tr>
<tr>
<td>LS17-278</td>
<td>Developing Sustainable Eastern Oyster (Crassostrea virginica) Farming in Georgia Through Evaluation of Grow-out Methodology, Distribution, and Marketing</td>
<td>$268,000</td>
<td>Thomas Bliss University of Georgia</td>
</tr>
<tr>
<td>LS17-281</td>
<td>Increasing Practice of Sustainable Forestry Among Minority and Limited-Resource Forest Landowners in Georgia</td>
<td>$260,888</td>
<td>Dr. Puneet Dwivedi University of Georgia</td>
</tr>
<tr>
<td>LS16-269</td>
<td>A Systems Approach for Estimating Plant Available Nitrogen from Organic Materials and Fertilizers</td>
<td>$248,324</td>
<td>Miguel Cabrera University of Georgia</td>
</tr>
<tr>
<td>LS14-262</td>
<td>The Sustainability of Organic Farms Under the H2A Program: Evaluating the Program’s Effects on Mitigating Farm Labor Shortages and Maintaining Business Viability</td>
<td>$101,096</td>
<td>Dr. Cesar Escalante University of Georgia</td>
</tr>
<tr>
<td>LS13-256</td>
<td>Food Hubs and the Regional Food System: Refining Our Understanding of Best Practices from Foodsheds to Operations</td>
<td>$230,000</td>
<td>Dr. Carrie Furman University of Georgia Crop and Soil Sciences Department</td>
</tr>
<tr>
<td>LS13-257</td>
<td>Using Durana Clover as a Living Mulch in an Integrated Corn and Livestock Production System</td>
<td>$224,000</td>
<td>Dr. Nicholas Hill University of Georgia</td>
</tr>
<tr>
<td>LS11-240</td>
<td>Organic Farms’ Credit Access and Farm Lenders’ Assessment of Organic Farms’ Credit Risks</td>
<td>$132,386</td>
<td>Dr. Cesar Escalante University of Georgia</td>
</tr>
<tr>
<td>LS11-241</td>
<td>Enhancing Natural Enemy Systems: Biocontrol Implementation for Peachtree Borers</td>
<td>$226,100</td>
<td>Dr. David Shapiro-Ilan USDA-ARS</td>
</tr>
<tr>
<td>Project Code</td>
<td>Title</td>
<td>Award Amount</td>
<td>Principal Investigator(s)</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------</td>
<td>--------------</td>
<td>-------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| LS11-243     | Improving the Welfare of Southeastern Dairy Families Through the Adoption of Sustainable Production Systems | $294,409     | Dr. Richard Lacy  
Dr. Dennis Hancock  
UGA  
Univ. of Georgia |
| LS11-245     | Assessing the Food and Environmental Safety and Economic Feasibility of Mobile Slaughter Units for Pasture Poultry Grower | $240,780     | Alali Walid  
University of Georgia |
| LS10-225     | Evaluation of Crop Rotation for High Value Cool Season Horticultural Crop Production in Organic and Sustainable Systems | $200,000     | Dr. George Boyhan  
University Of Georgia |
| LS10-232     | Integrating Canola and Sunflower with Organic Grain Production and Southeastern United States | $245,000     | Dr. Glynn Tillman  
Harry Schomberg  
USDA ARS |
| LS09-220     | Does floral farmscaping really improve insect biological control in vegetable systems of the Coastal Plain? | $165,000     | Peter Hartell  
University of Georgia  
John Ruberson  
University of Georgia |
| LS09-222     | Fish extracts for integrated disease, insect and fertility management in organic blueberries | $119,000     | Harald Scherm  
University of Georgia |
| LS07-194     | Labor input substitution decisions and business sustainability strategies under changing farm labor market conditions; comparative economic viability analyses of organic and conventional farming systems | $120,000     | Dr. Cesar Escalante  
University of Georgia |
| LS07-196     | Improved efficiency of grazing dairies using complementary pasture species and irrigation scheduling | $210,000     | Dr. Nicholas Hill  
University of Georgia |
| LS07-198     | Transition strategies for an organic peanut-grain cropping system | $220,000     | Dr. R. Scott Tubbs  
University of Georgia |
| LS06-186     | Increasing use of sustainable plants in production and landscape design | $180,000     | Dr. Kris Braman  
University of Georgia |
| LS06-190     | Perennial legumes as a sustainable source of soil organic matter in Southeastern organic farming systems | $190,000     | Carl Jordan  
University of Georgia |
| LS05-177     | Sustainable Control of Gastrointestinal Nematodes in Small Ruminants | $250,000     | Thomas Terrill  
Fort Valley State University |
| LS04-159     | Profitable alternatives to improve water quality from high nutrient status farms | $288,000     | Dr. Dorcas Franklin  
University of Georgia, Crop and Soil Sciences |
| LS04-164     | Sustainable Control of Gastrointestinal Nematodes in Small Ruminants using Forages Containing Condensed Tannins | $15,500      | Will R. Getz  
Fort Valley State University |
| LS03-153     | Integrating Biological Control into Pecan Weevil Management: A Sustainable Approach | $217,500     | Dr. David Shapiro-Ilan  
USDA-ARS |
Fort Valley State University |
LS02-142 Defining the Research Needs of Farmers in Organic Horticultural Production in the Southeast $21,080 Dr. George Boyhan University Of Georgia

LS02-143 Novel Methods for Sustainable Control of Gastrointestinal Nematodes in Small Ruminants $254,137 Thomas Terrill Fort Valley State University

LS01-121 Enhancing Sustainability in Cotton Production through Reduced Chemical Inputs, Cover Crops, and Conservation Tillage $207,867 Harry Schomberg USDA ARS

LS01-123 Crop/Livestock Integration: Restoring a Traditional Paradigm in Contemporary Agricultural Research, Outreach and Practice $21,121 Gary Hill University of Georgia, Animal & Dairy Science Dept

LS01-124 Novel Methods for Sustainable Control of Gastrointestinal Nematodes in Small Ruminants $12,600 Thomas Terrill Fort Valley State University

LS00-114 Investigation of Sustainability of Dairy Goat Industry by Innovative Method of Product Development $225,470 Young Park Fort Valley State University


LS97-088 Producers Assessment of Sustainable Land Management Practices to Protect Water Quality $228,864 Jill L. Steiner USDA-ARS, Campbell Center

LS96-078 Saving the Southern Legacy: Heirloom Plants and Local Knowledge for Profitable, Sustainable Agriculture $152,817 Robert E. Rhoades University of Georgia

LS94-057 Disease and Insect Management Using New Crop Rotations for Sustainable Production of Row Crops in the Southeastern United States $152,200 Barry Cunfer University of Georgia

LS93-056 Using Soldier Flies as a Manure Management Tool for Volume Reduction, House Fly Control and Feedstuff Production (AS93-09) $2150 Craig D. Sheppard University of Georgia

LS91-043 Cover Crops for Clean Water: A National Conference on the Role of Cover Crops in Improving Water Quality $8,000 William L. Hargrove University of Georgia

LS90-020 Effective Nitrogen for Low-input Forage and Grain Production in a Thermicudic Region $152,000 R. Russell Bruce USDA/ARS, Southern Piedmont Conservation Research Center

LS90-024 Development of an Environmentally Safe and Economically Sustainable Year-Round Minimum Tillage Forage Production System Using Farm Animal Manure as the Only Fertilizer $195,000 Joseph C. Johnson Jr. University of Georgia

LS90-025 Development of Fractionation and Treatment Systems for Poultry Litter to Enhance Utilization and Reduce Environmental Impact $141,000 William C. Merka University of Georgia

LS90-027 A Low-Input Manure Management System in Animal Housing for Housefly Control, Waste Reduction and Feed $18,000 Craig D. Sheppard University of Georgia
**PROFESSIONAL DEVELOPMENT PROGRAM GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPDP23-023</td>
<td>Funding, Fundamentals, and Fellowship: The MANRRS Grantsmanship Training Program</td>
<td>$72,700</td>
<td>Derris Devost- Burnett MANRRS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dr. Marcus Bernard MANRRS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dr. Olga Bolden-Tiller MANRRS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ebony Webber MANRRS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Dr. Tina Wu MANRRS</td>
</tr>
<tr>
<td>ES09-096</td>
<td>Training Educators and Agricultural Professionals on Sustainable, Pasture-based Dairy Systems</td>
<td>$89,321</td>
<td>Dr. Dennis Hancock Univ. of Georgia</td>
</tr>
<tr>
<td>ES08-094</td>
<td>Experiential Education to Form an Extension Organic Production Team in Georgia</td>
<td>$18,692</td>
<td>Julia Gaskin University of Georgia</td>
</tr>
<tr>
<td>ES06-084</td>
<td>Smart Drenching and FAMACHA Integrated Training for Sustainable Control of Gastrointestinal Nematodes in Small Ruminants</td>
<td>$72,955</td>
<td>Seyedmehdi Mobini Fort Valley State University</td>
</tr>
<tr>
<td>ES06-086</td>
<td>Southern Region Educator Trainings in Eight Farming Systems using unique tools and approaches</td>
<td>$121,968</td>
<td>Karen Adler Southern Sustainable Agriculture Working Group</td>
</tr>
<tr>
<td>ES03-068</td>
<td>Curriculum in Organic Agriculture for Agents and Teachers</td>
<td>$70,810</td>
<td>Alice Rolls Georgia Organics</td>
</tr>
<tr>
<td>ES99-046</td>
<td>Building Capacity in Organic AGRiculture: An Integrated Approach to Training Agricultural Information Providers</td>
<td>$115,000</td>
<td>Alice Rolls Georgia Organics</td>
</tr>
<tr>
<td>ES97-016</td>
<td>Developing Trained Professionals and Teaching Aids to Support Educational Programs Addressing Management of Stored Grain in the Southeast</td>
<td>$38,150</td>
<td>Steve Brown University of Georgia, Extension Entomology, Rural Development Center</td>
</tr>
</tbody>
</table>

**FARMER/RANCHER GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS23-349</td>
<td>Research for the Validation of Regenerative Citrus</td>
<td>$14,843</td>
<td>Herb Young Squeeze Citrus LLC</td>
</tr>
<tr>
<td>FS23-359</td>
<td>A Path to Southern Tea: Propagation of Camellia Sinensis to Support an Alternative Field Crop for Southern Farmers</td>
<td>$9,150</td>
<td>Jenny Jackson Jenny Jack Farm</td>
</tr>
<tr>
<td>Project ID</td>
<td>Title</td>
<td>Funding</td>
<td>Applicant/Institution</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------------------------</td>
<td>---------</td>
<td>-----------------------------------------------------</td>
</tr>
<tr>
<td>FS22-344</td>
<td>Enriching Vermicast through the Use of Bokashi-Fermented Food Waste Inputs</td>
<td>$15,000</td>
<td>Melanie Jones Trefoil Gardens</td>
</tr>
<tr>
<td>FS20-328</td>
<td>Testing Methods to Develop a Soil Food Web in Clay Soils</td>
<td>$14,860</td>
<td>Kirsten Simmons Ecosystem Farm</td>
</tr>
<tr>
<td>FS17-296</td>
<td>Which Wildflower is Best at the Recruitment of Native Bees into Agricultural Areas? A comparison of perennial vs. annual wildflowers</td>
<td>$10,000</td>
<td>Joe Dickey Farmer</td>
</tr>
<tr>
<td>FS17-303</td>
<td>Evaluation of Southern Stem Blight Control in Green Beans with Aerated Compost Tea in Drip System</td>
<td>$6,501</td>
<td>Joseph Reynolds Love is Love Farm</td>
</tr>
<tr>
<td>FS16-290</td>
<td>Measuring the Benefits of Wildflower Plots to Boost Fruit Yield and Pollinator Abundance in Georgia Apple Orchards</td>
<td>$10,000</td>
<td>Joe Dickey Farmer</td>
</tr>
<tr>
<td>FS14-278</td>
<td>Grazing Standing Corn and Climbing Beans</td>
<td>$6,107</td>
<td>Dr. Lynn Barber Heritage Acres</td>
</tr>
<tr>
<td>FS14-286</td>
<td>Production and Marketing of Pumpkin Seed Oil &amp; Related Products</td>
<td>$9,180</td>
<td>Bradley Weaver Bradley’s Farm</td>
</tr>
<tr>
<td>FS13-267</td>
<td>Mechanical and biological strategies to remove invasive Bermuda grass in preparation for organic vegetable production on raised beds</td>
<td>$9,560</td>
<td>Jennifer Taylor Lola’s Organic Farm</td>
</tr>
<tr>
<td>FS12-259</td>
<td>Black Soldier Flies as a Value-Adding Tool within Organic Farming Systems</td>
<td>$10,000</td>
<td>Hilary Halford White Oak Pastures, Inc.</td>
</tr>
<tr>
<td>FS11-253</td>
<td>Demonstrating the Potential for Triticale and Annual Ryegrass as both an Alternative Winter Crop and a Soil Organic Matter-Building Practice</td>
<td>$9,997</td>
<td>Jonny Harris Greenview Farms, Inc.</td>
</tr>
<tr>
<td>FS10-249</td>
<td>Production and Marketing of European Melons in the Southeast</td>
<td>$5,390</td>
<td>Brennan Washington Phoenix Gardens, LLC</td>
</tr>
<tr>
<td>FS09-234</td>
<td>“Sweet Petite” Value Added Processing for Small Sized Shrimp</td>
<td>$9,932</td>
<td>James Dubberly Dubberly’s Seafood</td>
</tr>
<tr>
<td>FS08-228</td>
<td>Sustainable Production and Niche Marketing of Pearl Millet</td>
<td>$9,911</td>
<td>Bryan Maw</td>
</tr>
<tr>
<td>FS07-212</td>
<td>Control of Corn Earworm using Brazilian free-tailed bats</td>
<td>$999</td>
<td>Frank Bibin Teresa Bibin</td>
</tr>
<tr>
<td>FS06-208</td>
<td>Evaluation of Compost Tea Application to Control Foliar Diseases in an Heirloom Tomato Crop</td>
<td>$9,720</td>
<td>Daniel Parson Gaia Gardens</td>
</tr>
<tr>
<td>FS02-145</td>
<td>Cotton Mill Farmer’s Market - Linking the Community to the Farm</td>
<td>$15,000</td>
<td>Meredith Barr Carroll Co. Farmland &amp; Rural Preservation Partners</td>
</tr>
<tr>
<td>FS02-156</td>
<td>Winter and Summer Cover Crops for Organic Pecan Production</td>
<td>$9,766</td>
<td>Kim M. Moore</td>
</tr>
</tbody>
</table>
**FS00-106**  Cover Crops for Christmas Trees and Other Orchard Crops  
$6,327  
Thomas Aiken

**FS00-111**  Using On-Farm Produced Compost to Reduce Production Costs, Disease and Fertilizer Input in Bell Pepper  
$9,536  
Bill Brimm  
Lewis Taylor Farm

**FS99-086**  Paper Wasp Colonization for Tent Caterpillar Control in Pecan Groves  
$506  
Frank Bibin

**FS99-099**  Alum Amended Solids Separation and Composting of Swine Waste  
$9,100  
Jimmy Shealy

**FS99-101**  Sustainable Winter Squash Production Using Poultry Litter  
$4,985  
Johnnie L. Stubbs

**FS98-072**  Microbial Input for Organic Production of Vegetables  
$9,039  
Skip Glover  
Glover Family Farm

**FS98-074**  Alfalfa Hay Production to Lower Soil Phosphorus Levels Caused by Animal Waste Application  
$9,556  
Keith Boozer  
Piedmont Area Poultry Association

**FS98-082**  Using Shearing to Control Nantucket Pine Tip Moth in Virginia Pine Christmas Trees  
$5,672  
William Slaughter

**FS97-058**  Evaluation of an Alternative Low-Input Production System for Fresh Market Tomato  
$5,109  
Greg & Dale Murray

**FS97-061**  Algae-based Winter Feed for Small-Scale Goat  
$7,907  
Rosemarie Szostak  
Oak Hill Farm

**FS94-004**  Nutrient Evaluation and On-Site Composting of Poultry Litter  
$3,000  
Andy Hickox

**FS94-006**  Insect Pest Management for Cotton  
$8,700  
Benny Johnston

---

**GRADUATE STUDENT GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| GS23-275   | Is Locally Sourced Biochar and Poultry Litter the Solution to Improving Soil Health and Sustainably Produce Tomatoes in South Georgia? | $16,500      | Ted McAvoy  
University of Georgia  
Emilio Suarez Romero  
University of Georgia |
| GS23-286   | Investigating the inoculation of peach with an entomopathogenic fungus as a potential biocontrol tactic against tree boring pests | $15,408      | Brett Blaauw  
University of Georgia  
Sabrina Barbosa  
Department of Entomology, University of Georgia |
| GS22-264   | Social Valuation of Forest-based Ecosystem Services of Female Forest Landowners in Georgia, United States | $15,081      | Dr.Puneet Dwivedi  
University of Georgia  
Kanchana Balasubramanian  
University of Georgia |
| GS22-269   | Exploration and Evaluation of the Native Parasitoids of Invasive Spotted-wing Drosophila, Drosophila suzukii for Biological Control | $13,354      | Dr.Ashfaq Sial  
University of Georgia  
Subin Neupane  
University of Georgia |
<table>
<thead>
<tr>
<th>Project Code</th>
<th>Project Title</th>
<th>Budget</th>
<th>Principal Investigator(s)</th>
</tr>
</thead>
</table>
| GS21-236    | Identifying the Roles of Predatory Natural Enemies in Pecan Systems:         | $15,707 | Dr. Jason Schmidt  
|             | Molecular-based framework for sustainable pest management                     |         | University of Georgia  
|             |                                                                               |         | Pedro Toledo  
|             |                                                                               |         | University of Georgia |
| GS20-233    | Effect of Ground Cover Management on Predators and Predation of Halyomorpha halyis in Georgia Peach Orchards | $16,111 | Brett Blaauw  
|             |                                                                               |         | University of Georgia  
|             |                                                                               |         | Daniel O'Connell  
|             |                                                                               |         | University of Georgia |
| GS19-217    | Evaluating Stakeholder Perceptions on Palmer Amaranth Management in Georgia    | $14,797 | Dr. Jennifer Thompson  
|             |                                                                               |         | University of Georgia  
|             |                                                                               |         | David Weisberger  
|             |                                                                               |         | University of Georgia |
| GS19-197    | Aphid Parasitism: A Sustainable BioControl Option Against Aphid Pests of Pecans in the Southeastern U.S. | $14,740 | Dr. Jason Schmidt  
|             |                                                                               |         | University of Georgia  
|             |                                                                               |         | Eddie Slusher  
|             |                                                                               |         | University of Georgia-Tifton |
| GS19-216    | Assessing the Conditions Informing Direct-to-Consumer Access for Hispanic Immigrant Farmers in the Southeast | $16,380 | Dr. Jennifer Thompson  
|             |                                                                               |         | University of Georgia  
|             |                                                                               |         | Emily Ramsey  
|             |                                                                               |         | University of Georgia |
| GS18-180    | Leveraging Pest Behavior for Implementation of Sustainable Management Tactics for Plum Curculio in Southeastern Peach Production | $16,464 | Brett Blaauw  
|             |                                                                               |         | University of Georgia  
|             |                                                                               |         | Tzu-Chin Liu  
|             |                                                                               |         | University of Georgia |
| GS18-182    | Effects of Imidacloprid Soil Drench Applications on Nesting Blue Orchard Mason Bees (Osmia lignaria) | $16,490 | Dr. Kamal Gandhi  
|             |                                                                               |         | University of Georgia  
|             |                                                                               |         | Dr. Christine Fortuin  
|             |                                                                               |         | Mississippi State University |
| GS16-159    | Evaluation of Pest and Disease Resistance in Winter Squash Varieties Under Organic Management in the Southeast | $10,944 | Dr. Elizabeth Little  
|             |                                                                               |         | University of Georgia  
|             |                                                                               |         | Zachary Matteen  
|             |                                                                               |         | Mississippi State University |
| GS16-163    | Evaluating conservation biological control options for spotted wing drosophila (Drosophila suzukii) | $10,849 | Dr. Jason Schmidt  
|             |                                                                               |         | University of Georgia  
|             |                                                                               |         | Seth Whitehouse  
|             |                                                                               |         | Mississippi State University |
| GNC15-208   | Why Do They Quit? Identifying Key Determinants of Beginning Farmers’ Decisions | $9,855  | Dr. Peggy Barlett  
|             |                                                                               |         | Emory College of Arts and Sciences  
|             |                                                                               |         | Dr. Andrea Rissing  
|             |                                                                               |         | School of Sustainability, Arizona State University |
| GS15-147    | Evaluation of High Tunnel Systems for Spring Organic Lettuce Production in Georgia | $11,000 | Dr. Suzanne O'Connell  
|             |                                                                               |         | University of Georgia  
|             |                                                                               |         | Theekshana Jayalath  
|             |                                                                               |         | University of Georgia |
| GS14-127    | Controlling Squash Bugs (Anasa tristis) Using Cover Crops and Organic Insecticides | $2,436  | David Berle  
|             |                                                                               |         | Lindsay Davies  
|             |                                                                               |         | University of Georgia |
| GS14-139    | A novel technique for treating seeds with biocontrol agents for the sustainable management of bacterial fruit blotch of watermelon | $9,500  | Dr. Ron Walcott  
|             |                                                                               |         | University of Georgia  
|             |                                                                               |         | Safira Sutton  
|             |                                                                               |         | University of Georgia |
| GS09-080    | Emerging Local Food Systems – The Role of Locally Developed Innovation in Small-scale Sustainable Farming in Northeast Georgia | $8,492  | Carl Jordan  
|             |                                                                               |         | University of Georgia  
|             |                                                                               |         | Justin Ellis  
|             |                                                                               |         | University of Georgia |
ON FARM RESEARCH/PARTNERSHIP GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS23-166</td>
<td>Saffron: A new high-value crop for underserved farmers in Southern US</td>
<td>$29,233</td>
<td>Reza Keshavarz Afshar Rodale Institute</td>
</tr>
<tr>
<td>OS22-150</td>
<td>Boosting Blueberry Patch Production and Native Bee Abundances Using Wildflower Patches</td>
<td>$20,000</td>
<td>Dr. Mark Schlueter Georgia Gwinnet College</td>
</tr>
<tr>
<td>OS19-126</td>
<td>Off-season Plant-parasitic Nematode Management for Vegetables through Biofumigant Cover Crops</td>
<td>$15,000</td>
<td>Abolfazl Hajihassani University of Georgia</td>
</tr>
<tr>
<td>OS17-102</td>
<td>Scale Management to Promote Sustainable Southeastern Peach Production</td>
<td>$14,985</td>
<td>Brett Blaauw University of Georgia</td>
</tr>
<tr>
<td>OS14-090</td>
<td>Investigating Artificial Native Bee Habitats as a Means to Boost Native Bee Pollination and Provide an Additional Revenue Source for Farmers</td>
<td>$15,000</td>
<td>Dr. Mark Schlueter Georgia Gwinnet College</td>
</tr>
<tr>
<td>OS13-074</td>
<td>Enhancement of Native Bee Pollination Services in Apples Orchards in Georgia</td>
<td>$15,000</td>
<td>Dr. Mark Schlueter Georgia Gwinnet College</td>
</tr>
<tr>
<td>OS13-081</td>
<td>Nesting Habitat Enhancements and Native Bee Population Measurements in Apple Orchards in Georgia</td>
<td>$15,000</td>
<td>Dr. Mark Schlueter Georgia Gwinnet College</td>
</tr>
<tr>
<td>OS12-066</td>
<td>Native Bee Assessment in North Georgia Apple Orchards: Measuring Diversity and Devising Methods to Boost Abundance</td>
<td>$15,000</td>
<td>Dr. Mark Schlueter Georgia Gwinnet College</td>
</tr>
<tr>
<td>OS11-061</td>
<td>A Measurement of the Pollination Success of Native Bees in North Georgia Apple Orchards: Is there a need for Commercial European Honeybees?</td>
<td>$15,000</td>
<td>Dr. Mark Schlueter Georgia Gwinnet College</td>
</tr>
</tbody>
</table>
### SUSTAINABLE COMMUNITY INNOVATION GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS09-049</td>
<td>Creating, planning, and using forage quality budgets to optimize milk production on grazing daries</td>
<td>$14,340</td>
<td>David Kissel</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>University of Georgia</td>
</tr>
<tr>
<td>OS07-034</td>
<td>Hydroseeded mulch as an alternative to plastic mulch films</td>
<td>$14,000</td>
<td>Dr. Gary L. Hawkins</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>University of Georgia</td>
</tr>
<tr>
<td>OS04-020</td>
<td>Increasing Farm Sustainability through the Use of Cover Crops for Weed Suppression in Non-Transgenic Conventional Cotton</td>
<td>$15,000</td>
<td>Dr. Gary L. Hawkins</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>University of Georgia</td>
</tr>
</tbody>
</table>

### EDUCATION ONLY GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDS23-050</td>
<td>Urban Agricultural Work/Study Experience for Young Urban Adults</td>
<td>$44,997</td>
<td>Tixie Fowler</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gardens for Growing Community, Inc.</td>
</tr>
<tr>
<td>EDS22-36</td>
<td>Organic For All - Whole Systems Organic Agriculture for Farmers of Color</td>
<td>$50,000</td>
<td>Dr. Jennifer Taylor</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IFOAM- North America (International Federation of Organic Agricultural Movements- North America)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ken McCormick</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IFOAM NA (International Federation of Organic Agriculture Moveme</td>
</tr>
</tbody>
</table>
EDS22-39  Tractor, Small Engine, and Hand Tool Selection, Use, Maintenance, and Repair for Small to Mid-Scale Sustainable Farms  $45,320  Lauren Cox  Georgia Organics

EDS21-25  Empowering Southern Sustainable Farmers with Proactive, Community-centered Farm Law Education, Resources, and Networks  $45,096  Eva Moss  Farm Commons  Rachel Armstrong  Farm Commons

EDS20-15  HABESHA Agriculture Leadership Opportunity (HALO Program)  $48,440  Cashawn Myers  HABESHA, Inc.


EDS19-12  A Working Group to Address the Challenge of Food Deserts Through Urban Agriculture  $50,000  Dr. Philip Omunga  Savannah State University

EDS18-04  Building a System of Sustainable Agriculture in the Southeast Black Belt Region Through Education and Technical Assistance  $47,000  John Littles, Sr  McIntosh SEED

EDS18-02  A Southern Cover Crop Website to Encourage Cover Crop Adoption  $46,998  Julia Gaskin  University of Georgia

EDS18-07  HABESHA Works Program Expansion and Incubator Development  $30,000  Cashawn Myers  HABESHA, Inc.

---

**Total funding from the USDA SARE program to Georgia**

$12,574,142

---

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