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, granteeproduced information products and other educational materials.

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

Florida

Project Highlight: *Grafted Specialty Tomatoes More Resilient*

Demand for organic heirloom and specialty tomatoes grown in high tunnels is rising, making them high-value crops. Unfortunately, growers of such tomatoes in Florida face challenges in managing soil-borne diseases. Due to Fusarium wilt, one farm faced the complete crop failure of a tomato popular in the local market. University of Florida researcher Xin Zhao partnered with the farm, Frog Song Organics, to see if grafting with resistant rootstocks would control soil-borne diseases in organic high tunnel production systems.

Their experiment compared grafted and non-grafted specialty tomatoes for soil-borne disease resistance, yield and fruit quality. They found that grafting was an effective tool for managing Fusarium wilt and improving the overall health of tomato plants. Yields significantly improved in grafted tomato production compared with non-grafted controls. Even with higher production costs associated with the grafting, the grafted plants resulted in increased net profits.

One hundred professionals and 450 farmers learned of the rewarding research findings at workshops and presentations. Zhao views this on-farm research project as a successful demonstration of technology transfer through a collaborative and productive partnership with local growers to address production issues.

For more information on this project, see sare.org/projects, and search for project number OS13-083.

SARE in Florida

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

$9,166,877 in total funding

192 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 Florida

Total awards: 192 grants

- 36 Research and Education
- 7 Sustainable Community Innovation
- 10 Professional Development Program
- 27 Farmer/Rancher
- 77 Graduate Student
- 31 On Farm Research/Partnership
- 4 Education Only

Total funding: $9,166,877

- $6,492,511 Research and Education
- $87,296 Sustainable Community Innovation
- $651,193 Professional Development Program
- $262,085 Farmer/Rancher
- $988,071 Graduate Student
- $503,453 On Farm Research/Partnership
- $182,268 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/florida

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/florida to learn more.

Gilbert Queeley
Florida A&M University
(850) 412-5255
gilbert.queeley@famu.edu

Marilyn (Mickie) Swisher
University of Florida
(352) 273-3538
mesw@ufl.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.
Florida has been awarded $9,166,877 grants to support 190 projects, including but not limited to, 34 research and/or education projects, 10 professional development projects and 27 producer-led projects. Florida 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>
| LS23-380  | Passionfruit: Laying the Groundwork for an Emerging Specialty Fruit Crop in Florida | $383,000     | Dr. Ali Sarkhosh  
University of Florida  
Mark Bailey  
University of Florida Cooperative Extension Service  
Dr. Jonathan Crane  
University of Florida/Tropical Research and Education Center  
Stafford Crossman  
University of The Virgin Islands  
David Dinkins  
University of Florida, Institute of Food and Agricultural Sciences  
Dr. Islam El-Sharkawy  
Florida A&M University  
Vanessa Forbes  
University of the Virgin Islands  
Tatiana Sanchez  
UF/IFAS Extension Alachua County  
Dr. Steven Sargent  
University of Florida Horticultural Sciences Department  
Brandon White  
University of Florida, Institute of Food and Agricultural Sciences |
| LS23-381  | Establishing domestic vanilla cultivation in southern Florida, Puerto Rico, and the US Virgin Islands | $383,000     | Dr. Xingbo Wu  
University of Florida  
Dr. Paul Bayman  
Vanilla Castañer LLC  
Trent Blare  
Dr. Thomas Zimmerman  
University of the Virgin Islands |
| LS22-370  | Using rootstocks to increase blueberry farming sustainability in the South East | $371,000     | Dr. Gerardo Nunez  
University of Florida  
Dr. John Diaz  
University of Florida  
Dr. Islam El-Sharkawy  
Florida A&M University  
Gabriel Maltais-Landry  
University of Florida  
Dr. Zilfina Rubio Ames  
University of Georgia  
Ariel Singerman  
University of Florida |
<table>
<thead>
<tr>
<th>Project Code</th>
<th>Project Title</th>
<th>Budget</th>
<th>Principal Investigators</th>
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<tbody>
<tr>
<td>LS21-353</td>
<td>Evaluating the Dual-Purpose of Chickpea: A Cash and Cover Crop for Agricultural Production Systems in the Southeast</td>
<td>$397,648</td>
<td>md ali babar (University of Florida), Dr. Oscar Liburd (University of Florida), Gabriel Maltai-Landry (University of Florida), Dr. Jorge Ruiz-Menjivar (University of Florida), Dr. Marilyn Swisher (University of Florida), Chris Wilson (University of Florida), Alejandro Bolques (Florida A&amp;M University)</td>
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<td>LS21-354</td>
<td>The Use of Cyanobacteria Biofertilizers to Increase Crop Productivity, Improve Soil Health, and Agricultural Sustainability in Florida</td>
<td>$242,000</td>
<td>Dr. Krishnaswamy Jayachandran (Florida International University), Dr. Mahadev Bhat (Florida International University), Dr. Saoli Chanda (Florida International University), Dr. Leonard Scinto (Florida International University), Dr. Sanku Dattamudi (Texas A&amp;M University - Kingsville)</td>
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<tr>
<td>LS21-360</td>
<td>Specialty Pumpkin: Laying the Groundwork for an Emerging Crop and Lucrative Products</td>
<td>$399,999</td>
<td>Dr. Geoffrey Meru (University of Florida), Dr. Carlene Chase (University of Florida), Dr. Andrew MacIntosh (University of Florida), Dr. Angela Ramirez (University of Puerto Rico), Dr. Jorge Ruiz-Menjivar (University of Florida), Andre da Silva (Auburn University)</td>
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<tr>
<td>LS20-334</td>
<td>Optimizing Nutrient and Water Management for Organic Mixed Vegetable Production Systems</td>
<td>$299,116</td>
<td>Gabriel Maltai-Landry (University of Florida), Kevin Athearn (University of Florida), Eban Bean (Agricultural and Biological Engineering, UF/IFAS), Dr. Carlene Chase (University of Florida), Tatiana Sanchez (UF/IFAS Extension Alachua County)</td>
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<tr>
<td>LS20-342</td>
<td>Enhancing Hedgerow Systems in Fruit Tree Production to Improve Beneficial Insect Diversity and Abundance</td>
<td>$311,118</td>
<td>Dr. Xavier Martini (University of Florida), Dr. Michael Andreu (University of Florida), Brett Blaauw (University of Georgia), Dr. Lauren Diepenbrock (University of Florida), Dr. Rachel Mallinger (University of Florida)</td>
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<td>LS19-315</td>
<td>Enhancing Seed Production of Regionally Adapted Crops in the Southeastern Farmer Seed System</td>
<td>$310,537</td>
<td>Dr. Hector Perez (University of Florida)</td>
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<td>LS18-291</td>
<td>Managing Plant-parasitic Nematodes and Promoting Beneficial Soil Organisms Through Sod-based Crop Rotation</td>
<td>$198,669</td>
<td>Zane Grabau (University of Florida)</td>
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<td>LS18-297</td>
<td>Shade and Ground Cover Growing Systems for Tea Production in Florida</td>
<td>$200,000</td>
<td>Brantlee Richter (University of Florida)</td>
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<td>Project Code</td>
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<tr>
<td>LS16-270</td>
<td>Cover Crop Diversity through Evaluation and Increase from Breeder Stocks and Germplasm Repositories</td>
<td>$201,249</td>
<td>Dr. Carlene Chase</td>
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<tr>
<td>LS11-244</td>
<td>Taking advantage of pest thrips ecology to increase sustainability of vegetable crop production</td>
<td>$235,000</td>
<td>Dr. Stuart Reitz</td>
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<tr>
<td>LS10-228</td>
<td>Educating and Training Future Farmers, Researchers and Extension Personnel in Sustainable Agriculture</td>
<td>$245,000</td>
<td>Rosalie Koenig</td>
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<tr>
<td>LS10-233</td>
<td>Integrated Use of Grafting Technology to Improve Disease Resistance and Fruit Yield in Specialty Melon Production</td>
<td>$223,000</td>
<td>Dr. Xin Zhao</td>
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<tr>
<td>LS10-235</td>
<td>Preparing Small Scale Limited Resource Vegetable Farmers for Organic Farming in North Florida</td>
<td>$15,000</td>
<td>Dr. Odemari Mbuya</td>
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<tr>
<td>LS09-216</td>
<td>Improving the quality of life for Southern organic farmers and farm workers</td>
<td>$190,000</td>
<td>Leah Cohen</td>
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<tr>
<td>LS08-205</td>
<td>Selecting a sunn hemp cover crop genotype for weed suppression and seed production</td>
<td>$170,000</td>
<td>Dr. Carlene Chase</td>
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<tr>
<td>LS07-199</td>
<td>Integrating plant essential oils and kaolin for the sustainable management of thrips and tomato spotted wilt on tomato</td>
<td>$185,000</td>
<td>Dr. Stuart Reitz</td>
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<tr>
<td>LS06-187</td>
<td>Silicon soil amendments for enhancing disease resistance while improving overall crop health for cucurbits in organic farming systems</td>
<td>$180,000</td>
<td>Dr. Robert McGovern</td>
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<tr>
<td>LS06-192</td>
<td>Biorational approaches for management of bacterial wilt and bacterial spot on tomato</td>
<td>$150,000</td>
<td>Dr. Jeffrey Jones</td>
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<td>LS05-170</td>
<td>Integrated Management of Purple and Yellow Nutsedge in Organic Vegetable Production</td>
<td>$125,000</td>
<td>Dr. Carlene Chase</td>
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<tr>
<td>LS04-168</td>
<td>Development of Florida Native Plants as Farmscaping Cover Crops and Value-added Crops for Limited-Resource Farmers in Central Florida</td>
<td>$15,000</td>
<td>Robert Kluson</td>
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<tr>
<td>LS03-148</td>
<td>Development of sustainable vegetable production systems for south Florida and Virginia based on use of cover crops and precision irrigation</td>
<td>$179,776</td>
<td>Waldemar Klassen</td>
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<td>LS02-136</td>
<td>Enhancing the Economic and Environmental Competitiveness of Small Farms Through Agroforestry</td>
<td>$189,600</td>
<td>Shibu Jose</td>
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<tr>
<td>LS02-140</td>
<td>A System Approach for Improved Integration of Green Manure in Commercial Vegetable Production Systems</td>
<td>$171,800</td>
<td>Johannes Scholberg</td>
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<td>LS00-118</td>
<td>Management of Small Rural Holdings as Economic and Ecological Units</td>
<td>$21,406</td>
<td>David Zimet</td>
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<tr>
<td>Project #</td>
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<tr>
<td>LS99-101</td>
<td>Developing Effective Methods to Assess the Impact of Community Food Security Programs on Purchases of Local Farm Produce in Three Southern Communities</td>
<td>$20,000</td>
<td>Ellen Huntley Florida Organic Growers</td>
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<td>AS95-019</td>
<td>Biological Control Methods for Citrus Rust Mites and Spider Mites on Florida Citrus Utilizing Predaceous Arthropods as Part of IPM</td>
<td>$75,000</td>
<td>Carl C. Childers IFAS Citrus Research</td>
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<tr>
<td>LS92-046</td>
<td>Development of Cropping Systems for Nematode Management on Agronomic and Horticultural Crops</td>
<td>$155,000</td>
<td>D.W. Dickson University of Florida R. McSorley Dept. of Entomology &amp; Nematology, U of Florida Rodrigo Rodriguez-Kabana Auburn University, Plant Pathology</td>
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<tr>
<td>LS91-031</td>
<td>Biological Control and its Economics in the Southern United States</td>
<td>$49,970</td>
<td>J. Howard Frank University of Florida, Entomology and Nematology</td>
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<tr>
<td>LS91-042</td>
<td>Intensive Short Course on Grant Preparation for Future Applicants to the LISA Competitive Grants Program</td>
<td>$39,000</td>
<td>Carl Barfield University of Florida</td>
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<tr>
<td>LS90-021</td>
<td>An Educational Program in Low-input Sustainable Agriculture Production Technology and Philosophy</td>
<td>$18,000</td>
<td>Stephen A. Ford University of Florida</td>
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**PROFESSIONAL DEVELOPMENT PROGRAM GRANTS**

<table>
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<th>Project #</th>
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<tr>
<td>SPDP21-03</td>
<td>Bridging the Food Supply and Sustainable Agriculture Systems with the Nonprofit Sector</td>
<td>$77,867</td>
<td>Dr.Kimberly Wiley University of Florida Dr.Jennifer Jones University of Florida Dr.Marilyn Swisher University of Florida</td>
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<td>ES09-097</td>
<td>Moving nursery producers toward sustainable production practices</td>
<td>$76,237</td>
<td>Gary Knox University of Florida</td>
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<td>ES03-067</td>
<td>What Service Providers Must Know About Organic Rules and Regulations</td>
<td>$133,762</td>
<td>Rosalie Koenig University of Florida</td>
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<td>ES01-054</td>
<td>Growing with the Community: A Hands-on Training Design for Agricultural Educators, Farmers and Community Leaders</td>
<td>$49,735</td>
<td>Ellen Huntley Florida Organic Growers</td>
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<td>ES01-055</td>
<td>Delivery of Biological Control Information and Technology in Florida</td>
<td>$49,919</td>
<td>James Cuda University of Florida</td>
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<td>ES01-056</td>
<td>Training in production and utilization of composted waste materials in warm, humid climates to improve soils for horticultural cropping systems</td>
<td>$47,896</td>
<td>Monica Ozores-Hampton University of Florida/SWFREC</td>
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<td>ES97-030</td>
<td>Integrated Production of Sustainable Crops for Small Farmers in North Florida</td>
<td>$8,375</td>
<td>Gary Knox University of Florida</td>
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<tr>
<td>Project #</td>
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<td>ES97-036</td>
<td>Sustainable Agriculture Training Initiative for Texas</td>
<td>$70,136</td>
<td>Nancy Roe</td>
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<td>LST96-012</td>
<td>Facilitating Farmer to Farmer Networks: An Experimental Approach</td>
<td>$80,997</td>
<td>Dr. Marilyn Swisher</td>
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<td>LST94-007</td>
<td>Evaluating Sustainability: Gaining Insights</td>
<td>$56,269</td>
<td>Dr. Marilyn Swisher</td>
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<td>University of Florida</td>
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<td>FS22-339</td>
<td>Methodology to enhance nutrition and economics of microalgae use as live feeds in marine aquaculture</td>
<td>$14,985</td>
<td>Nicole Kirchhoff, PhD</td>
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<td>Live Advantage Bait LLC</td>
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<td>FS20-323</td>
<td>Evaluating Mobile Slaughter Access for Producers and Local Partners</td>
<td>$10,700</td>
<td>Sheila Austin</td>
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<td>Red Boot Goat Farm</td>
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<td>FS19-317</td>
<td>Analysis of the Antioxidant Qualities of Flowers and Fruits of Several Commercial Varieties of Sambucus nigra ssp. Canadensis (The North American Black Elderberry) in Florida</td>
<td>$9,971</td>
<td>Heather Martin</td>
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<td>Hyldemoer &amp; Co., LLC</td>
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<td>FS19-314</td>
<td>Season Extension and Increased Economic Sustainability for South Florida Growers: Using high tunnels to extend tomato production</td>
<td>$9,665</td>
<td>Moses Kashem</td>
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<td>St. Simon's Farm; Urban Vegetable Project Produce Sales LLC</td>
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<td>FS19-319</td>
<td>Sweet Potatoes and Their Vines: A nutritional and sustainable alternative for food and livestock feed</td>
<td>$9,926</td>
<td>April Singleton</td>
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<td>L&amp;B Farm</td>
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<td>FS10-248</td>
<td>Florida Meat Goat Study</td>
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<td>Rita Pruette</td>
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<td>Granny Smith Farms</td>
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<td>FS06-209</td>
<td>Developing Model CSA Software for Multi-cropping and Harvesting</td>
<td>$9,800</td>
<td>Margaret Pikarsky</td>
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<td>Bee Heaven Farm</td>
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<td>FS03-176</td>
<td>Developing Guidelines for Farmers to Market Directly to Consumers at Community Farmers’ Markets</td>
<td>$14,000</td>
<td>Sharon Yeago</td>
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<td>Alachua County Farmers’ Market, Inc.</td>
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<td>FS02-149</td>
<td>Ultraviolet Light absorbing films and nets for insect and disease control in an organic greenhouse</td>
<td>$8,010</td>
<td>Jim Gibbons</td>
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<td>FS01-129</td>
<td>Development of Multi-Herd Management software for small farmers</td>
<td>$9,949</td>
<td>Dee Blaha</td>
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<td>FS01-135</td>
<td>Soil Fertility improvement in Fruit Orchards by Windrowing Urban Plant Debris and Poultry Litter</td>
<td>$8,644</td>
<td>William Graves, IV</td>
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<td>Tetley Groves, Inc.</td>
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<td>FS01-138</td>
<td>Developing a model to increase support for organic farming research at Land Grant Institutions</td>
<td>$14,999</td>
<td>Marty Mesh</td>
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<td>FL Certified Organic Growers and Consumers, (POG)</td>
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<td>FS01-139</td>
<td>Composted Yard Waste as a Replacement for Pine Bark Mulch in Blueberry Production</td>
<td>$9,800</td>
<td>Richard Nogaj</td>
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<td>Harvest for Humanity</td>
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</table>
Using companion plants to increase biological control for thrips in pepper crops

$9,300

Chuck Obern

Practical Evaluation of Vermicompost on Horticultural Crops

$9,820

Cynthia L. Connolly

Marketing to the Department of Defense Food Service

$15,000

Glyen Holmes

New North Florida Coop

Does Compost Use Affect Post-Harvest Quality of Vegetables?

$9,960

Nancy Roe

Alternative Production Methods for Increasing Sustainability of North Florida Strawberry Producers

$9,964

Larry Gillard

South Georgia Farmers Co-op

Developing a Model for Successful Direct Marketing in Southern Communities

$7,020

Trace Giornelli

Alternative Parasite Control Methods for Goat Producers: A Comparative Analysis

$5,960

Charles Johnson

C&M Farms

Developing an Organically Approved Soil Mix for Use in Vegetable Transplant Production

$7,660

Rosalie Koenig

University of Florida

Feasibility of Indoor Culture and Production of Ornamental Goldfish

$2,216

Robert Draughon

Effect of Limited Environmental Controls on Shiitake Mushroom Production in the Southern Coastal Plain

$9,990

Charles McRae

Development of Potting Soil Mixes from Local Wastes

$9,600

Steve Garrison

Almond Tree Nursery

Testing the Efficacy of Alternative Methods of Whitefly Control in Organic Vegetable Production

$5,200

Rosalie Koenig

University of Florida

Management of Artificial and Restored Wetlands to Improve Water Quality

$10,000

A. Glenn Simpson

Big Island Grove

Biological Control of Flower Thrips in Pepper Fields

$9,950

Ted & Trudy Winsberg

Green Cay Farms

GRADUATE STUDENT GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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</thead>
</table>
| GS23-276  | Heat Stress and Its Influence on Subtropical Annual Crops and Their Pollinators: Implications for agriculture in an era of climate change | $16,358      | Dr.Krishnaswamy Jayachandran Florida International University
                                                                   Blaire Kleiman Florida International University |
| GS23-277  | Sowing Seeds Abroad: Exploring the Lived Experiences of African Immigrant Farmers in the United States | $8,074       | Dr.Matthew Benge University of Florida
                                                                   Willis Ochieng University of Florida |
Genetic Analysis and Breeding as Tools for Sustainable Management of Neopestalotiopsis sp. Outbreaks in Strawberry

$13,660
Dr. Vance Whitaker
University of Florida
Elissar Alam
University of Florida

Toward an Optimum Legume Proportion in Legume-grass Pastures: From radiation use efficiency to animal performance

$15,029
Dr. Lynn Sollenberger
University of Florida
Nicolas Caram
University of Florida

Intercropping Cassava and Legumes for Local Food Security in Florida and Puerto Rico

$11,459
Gregory MacDonald
University of Florida
Micah Dettweiler
University of Florida

Examining Carbon-Farming Practices to Address Soil Sustainability in the Everglades Agricultural Area, South Florida

$16,500
Jehangir Bhadha
University of Florida, Institute of Food and Agricultural Sciences Everglades Research and Education Center
Noel Manirakiza
University of Florida

Cultivar and Soil Amendment Effects on Peanut (Arachis hypogaea L.) Grown with Organic Practices in Florida

$16,500
Dr. Jianping Wang
University of Florida
Sandaru Malaweera
University of Florida

Optimizing Planting Density to Increase the Sustainability of Blueberry Farms

$16,417
Dr. Gerardo Nunez
University of Florida
Martin Zapien
University of Florida

Integration of Root-knot Nematode Resistant Pepper Cultivars into an Organic and Sustainable Production System in Florida

$16,232
Dr. Bala Rathinasabapathi
University of Florida
Dominick Padilla
University of Florida

Beetle Herding: Development of Strategies to Optimize Biological Control of Air Potato Using Attractants

$12,921
Dr. Xavier Martini
University of Florida
Jessica Griesheimer
University of Florida

Sustainable Strategies to Alleviate Heat Stress in Lettuce

$16,392
Alfred Huo
University of Florida
Chi Nguyen
University of Florida

How Do Soil Microbes Respond to Chickpea Replacing a Bare Fallow Period in Southeastern Row Crop Agroecosystems?

$16,484
Gabriel Maltais-Landry
University of Florida
Julia Barra Netto-Ferreira
University of Florida

Improving Blueberry Farming Sustainability Through Better Fertilizer Timing

$15,620
Dr. Gerardo Nunez
University of Florida
Lauren Goldsby
University of Florida

Identifying the Microbial-mediated Strategies for Optimum Phosphorus Uptake in Bahiagrass and Rhizoma Peanut Mixture

$16,454
Dr. Hui-Ling Liao
University of Florida
Adesuwa Erhunnwunse
University of Florida

Examining Field Crop Farmers’ Climate Change Perceptions, Adaptation Strategies, and Resilience in Florida: A spatial econometric approach

$15,775
Dr. Jorge Ruiz-Menjivar
University of Florida
Yong Liu
University of Florida

Agricultural Water Resource Management in Puerto Rico and the U.S. Virgin Islands

$13,076
Dr. Marilyn Swisher
University of Florida
Megan Donovan, M.S.
University of Florida

Sustainable Management Practices for Vanilla Cultivation

$16,499
Dr. Xingbo Wu
University of Florida
Jesse Potts
University of Florida
<table>
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<tr>
<th>Project Number</th>
<th>Title</th>
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<th>Principal Investigator(s)</th>
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| GS21-239       | Quantifying and Understanding Factors Affecting Tissue Nitrate Accumulation in Organic Celery | $16,497      | Dr. Xin Zhao  
University of Florida  
Zachary Ray  
University of Florida |
| GS21-243       | Arbuscular Mycorrhizal Fungal Associations in Tea Under Sustainable Production Systems in Florida | $16,444      | Dr. Bala Rathinasabapathi  
University of Florida  
Caitlin Clarke  
University of Florida |
| GS21-244       | What’s the Buzz? Assessing Efficacy, Synergisms, and Sustainability of Pollinators in Southern Highbush Blueberry (Vaccinium corymbosum L.) | $16,493      | Dr. Rachel Mallinger  
University of Florida  
John Ternest  
University of Florida Department of Entomology and Nematology |
| GS21-247       | Small-scale Farmer Networks in Florida: Understanding and measuring their impacts and exploring the role of extension in their success | $15,930      | Paul Monaghan  
University of Florida  
Jose Perez  
University of Florida |
| GS21-249       | Forecasting Pasture Productivity from Satellite Imagery for Use in Adaptive Grazing Management | $16,445      | Chris Wilson  
University of Florida  
Hunter Smith  
University of Florida |
| GS20-219       | Translating Grazing: Calculating Nitrogen Credits from Cool-Season Integrated Crop Livestock Systems | $16,493      | Dr. Marcelo Wallau  
University of Florida  
Kacey Aukema  
University of Florida |
| GS20-221       | Assessing Anaerobic Soil Disinfestation for Improving Weed and Soilborne Disease Management in High-tunnel and Open-field Salad Green Production | $16,499      | Dr. Xin Zhao  
University of Florida  
Isaac Vincent  
University of Florida |
| GS20-222       | Agroecological Intensification of Warm-season Pastures for Improved Productivity and Quality and Ecosystem Services | $16,173      | Chris Wilson  
University of Florida  
Hannah Rusch  
University of Florida |
| GS20-223       | Intercropping for Pest Control in Organic Kale in Northern Florida | $16,279      | Nora Underwood  
Florida State University  
Penelope Ales  
Florida State University |
| GS20-224       | Determining How the Ubiquitous Fungi Mortierella Regulates Belowground N Dynamics Under Different Crop Rotation Systems | $16,144      | Dr. Hui-Ling Liao  
University of Florida  
Kaile Zhang  
University of Florida |
| GS20-225       | Deploying Oak Mulch to Contain and Suppress HLB Disease in Citrus | $12,347      | Lorenzo Rossi, Ph.D.  
University of Florida  
Lukas Hallman  
UF/IFAS |
| GS20-231       | Evaluating Local Food Hubs as Alternative Food Systems to Preserve Specialty Crop Producers and Build Resilient Communities in North Central Florida | $14,028      | Dr. Jonathan Watson  
University of Florida  
BHAGATVEER SANGHA  
University of Florida |
| GS20-234       | Development of Push-pull System for Ambrosia Beetles, Vectors of Laurel Wilt Disease in Florida Avocado | $11,564      | Dr. Xavier Martini  
University of Florida  
Derrick Conover  
University of Florida |
| GS19-199       | Sustainable Strategies to Combat the Papaya Ringspot Virus | $16,495      | Dr. Alan Chambers  
University of Florida TREC  
Sarah Brewer  
University of Florida |
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<td>GS19-206</td>
<td>Developing Efficient Probiotics for Microbiota of Diarrhea-Resistant Livestock</td>
<td>$16,266</td>
<td>Dr. Kwangcheol Jeong, Peixin Fan</td>
<td>University of Florida, University of Florida</td>
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<td>GS19-210</td>
<td>Toward the Development of a Push-Pull Strategy to Control Whiteflies in Florida Vegetables</td>
<td>$9,308</td>
<td>Dr. Xavier Martini, Nicholas Johnston</td>
<td>University of Florida, North Florida Research and Education Center</td>
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<td>GS19-203</td>
<td>Evaluation of Cladosporium cladosporioides and Its Extracts for the Management of Pathogenic Bipolaris Species</td>
<td>$14,332</td>
<td>Dr. Erica Goss, Ashish Adhikari</td>
<td>University of Florida, University of Florida, Plant Pathology</td>
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<td>GS18-184</td>
<td>Evaluation of Biocides to Manage Silverleaf Whitefly (Hemiptera: Aleyrodidae) in Tomatoes in Florida</td>
<td>$16,500</td>
<td>Muhammad Haseeb, Jermaine Perier</td>
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<td>GS18-190</td>
<td>Innovations in Spotted Wing Drosophila (Drosophila suzukii Matsumura) Monitoring and Attract-and-Kill for Development of More Targeted IPM Programs</td>
<td>$16,334</td>
<td>Dr. Oscar Liburd, Gabrielle LaTora</td>
<td>University of Florida, University of Georgia</td>
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<td>GS18-191</td>
<td>Developing Attract and Reward Strategy to Control Thrips and Whiteflies in Florida Tomato</td>
<td>$10,316</td>
<td>Dr. Xavier Martini, Iris Strzyzewski</td>
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<td>GS18-195</td>
<td>Elucidating the Effects of Organic vs. Conventional Cropping Practice and Rhizobia Inoculation on Peanut Yield and Rhizosphere Microbial Diversity</td>
<td>$16,496</td>
<td>Dr. Jianping Wang, Dev Paudel</td>
<td>University of Florida, University of Florida</td>
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<td>GS18-181</td>
<td>Integrated Weed Management for Long-Term Nutsedge Control and Its Economic Impact in Florida Vegetable Production</td>
<td>$15,361</td>
<td>Peter Dittmar, Ranjeet Randhawa</td>
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<td>GS17-169</td>
<td>Identifying Marketing Opportunities Under the New Organic Transitional Certification Program</td>
<td>$16,492</td>
<td>Zhifeng Gao, Xuqi Chen</td>
<td>University of Florida, University of Florida</td>
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<td>GS17-170</td>
<td>Companion Planting of Native Insectary Plants to Benefit Crop Plants: The promotion of beneficial insects in agricultural communities via trophic resource enhancement</td>
<td>$10,332</td>
<td>Dr. Suzanne Koptur, Andrea Salas</td>
<td>Florida International University, Florida International University</td>
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<td>GS17-171</td>
<td>Development of an Integrated Pest and Disease Management Program Utilizing Companion Plants and Inundative Biological Control for Organic Squash Production</td>
<td>$16,245</td>
<td>Dr. Oscar Liburd, Lorena Lopez</td>
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<td>GS17-172</td>
<td>Effects of Herbivore-Induced Plant Volatiles in Various Maturity Stages of Pepper on the Attractiveness of Orius insidiosus</td>
<td>$9,787</td>
<td>Dr. Xavier Martini, Edward Traczyk</td>
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<td>GS17-173</td>
<td>Genetic Markers for Resistance to Gastrointestinal Nematode Infections for a Sustainable Florida Native Sheep Production</td>
<td>$16,500</td>
<td>Raluca Mateescu, Zaira Magdalena Estrada Reyes</td>
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<td>GS17-178</td>
<td>Overcoming Microclimate Challenges to Improve Organic Spinach Production in Florida</td>
<td>$16,495</td>
<td>Dr. Xin Zhao, Craig Frey</td>
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<td>GS15-141</td>
<td>Creating successful Farm to School Programs in Florida: A County-wide Feasibility Study of Direct, Local Procurement</td>
<td>$11,000</td>
<td>Ray Bucklin, Dr. Jonathan Watson, University of Florida</td>
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<td>GS15-145</td>
<td>Sustainable Management Strategies for Management of Key Insect and Nematode Pests in Squash Cropping Systems</td>
<td>$10,121</td>
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<td>GS15-146</td>
<td>Investigating New Management Approaches for Picture-Winged Flies in Sweet Corn</td>
<td>$7,432</td>
<td>Dr. Gregg Nuessly, University of Florida/IFAS/EREC, Dr. David Owens, University of Delaware</td>
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<td>GS15-149</td>
<td>Natural essential oil compounds with heat treatment to control stem-end rot on grapefruit during postharvest handling and marketing</td>
<td>$10,948</td>
<td>Dr. Mark Ritenour, University of Florida, Jiaqi Yan, University of Florida</td>
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<td>GS15-151</td>
<td>Legume Proportion of Grass-Legume Mixtures Affects Greenhouse Gas Emissions from Animals Grazing Pasture</td>
<td>$11,000</td>
<td>Dr. Lynn Sollenberger, Dr. Jose Dubeux, Jr., University of Florida - NFREC, Marta Kohmann, University of Florida</td>
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<td>GS14-129</td>
<td>Potential use of seeded peanuts as warm-season legumes in the U.S. southern Coastal Plains</td>
<td>$10,687</td>
<td>Dr. Jose Dubeux, Jr., University of Florida - NFREC, Edwin Mozley, University of Florida</td>
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<td>GS14-134</td>
<td>Effect of Nematode Suppression Using Cover Crops Resistant to Nematodes on Peanut Production</td>
<td>$10,429</td>
<td>Dr. Patricio Munoz, University of Florida, Lin Xing, University of Florida</td>
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<td>GS14-137</td>
<td>Impacts of land use intensification on soil organic carbon stocks, soil carbon fractions and microbial activities in subtropical grazing land ecosystems</td>
<td>$10,982</td>
<td>Dr. Maria Silveira, University of Florida, Sutie Xu, University of Florida</td>
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<td>GS13-119</td>
<td>Nitrogen dynamics of cover crops with sorghum for increased sustainability</td>
<td>$10,997</td>
<td>Dr. John Erickson, Jeffrey Fedenko, University of Florida</td>
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<td>GS12-114</td>
<td>Developing an integrated pest management program for a newly introduced pest in Florida blueberries: the spotted wing drosophila, Drosophila suzukii</td>
<td>$10,837</td>
<td>Dr. Oscar Liburd, University of Florida, Lindsay Iglesias, University of Florida</td>
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<td>GS12-117</td>
<td>Assessment of long-term management impact on soil C dynamics in subtropical grasslands</td>
<td>$10,879</td>
<td>Dr. Maria Silveira, University of Florida, Julius Adewopo, Florida</td>
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<td>GS11-100</td>
<td>Efficacy of Entomopathogenic Fungi in Controlling the Small Hive Beetle; a Destructive and Invasive Pest of Honey Bee Colonies</td>
<td>$9,996</td>
<td>Lambert Kanga, Florida A&amp;M University, Saundra Wheeler, Penn State University</td>
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<td>GS11-101</td>
<td>Understanding olfactory cues in host location and dispersal range of the filth fly parasitoid Spalangia cameroni (Hymenoptera:Pteromalidae) to improve the use as sustainable biological control agents for fly control on livestock operations</td>
<td>$9,828</td>
<td>Dr. Norman Leppla, University of Florida, Dr. Erika Machtinger, Pennsylvania State University</td>
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<td>GS11-105</td>
<td>Strategies for Increasing Rhizoma Peanut Contribution to Productivity and Ecosystem Services of Low-Input Pasture Systems</td>
<td>$9,978</td>
<td>Dr. Kim Mullenix, Auburn University/Alabama Cooperative Ex, Dr. Lynn Sollenberger, University of Florida</td>
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 GS10-092  Do Human-modified Landscapes Affect Solitary Bee Diversity, Foraging, and Reproduction in Northern Florida?  
$10,000  
Dr.Katie Sieving  
Wildlife Ecology / UF  
Rosalyn Johnson  
University of Florida

 GS10-093  Improving nutrient retention with biochar  
$9,852  
Dr.Danielle Treadwell  
University of Florida  
Seth Friedmen  
Univ of Florida

 GS10-096  Integrated Use of Grafting Technology to Improve Disease Resistance, Yield and Fruit Quality in Organic Heirloom Tomato Production  
$10,000  
Dr.Danielle Treadwell  
University of Florida  
Charles Barrett  
University of Florida

 GS10-097  Enhancing nitrogen and water use efficiency in tomato production by using grafting technique  
$10,000  
Dr.Xin Zhao  
University of Florida  
Desire Djidonou  
Horticultural Science Uvi Florida

 GS09-082  The Smells and Sounds of a Subterranean Sessid: Mating disruption and acoustic detection of grape root borer  
$9,434  
Dr.Oscar Liburd  
University of Florida  
William Sanders  
University of Florida

 GS09-087  Bioenergy and Biofertilizer for Small-Farm Enterprises  
$10,000  
Dr.Ann C. Wilkie  
University of Florida-IFAS  
Ryan E. Graunke  
University of Florida-IFAS

 GS08-075  Comprehensive evaluation of windbreaks of fast-growing trees  
$9,191  
Donald L Rockwood  
University of Florida  
Bijay Tamang  
University of Florida

 GS07-057  Optimizing buckwheat use as a weed suppressive cover crop for sustainable cropping systems in Florida  
$10,000  
Dr.Carlene Chase  
University of Florida  
Pei-wen Huang  
University of Florida

 GS07-063  Reducing nutrient loss below the root zone of drip-irrigated vegetables using low-pressure, increased irrigation time  
$9,966  
Bee Ling Poh  
University of Florida  
Eric Simonne  
University of Florida

 GS06-053  Are bluebirds good for farms, and are farms good for bluebirds?  
$10,000  
Dr.Katie Sieving  
Wildlife Ecology / UF  
John Deluca  
Dept. of Wildlife Ecology and Conservation, UF

 GS05-045  Development of an IPM Program for Control of Flower-Thrips in Blueberries in Southeastern United States  
$9,914  
Dr.Oscar Liburd  
University of Florida  
Hector Arevalo  
University of Florida

 GS04-039  Potential for nitrate-nitrogen leaching in a silvopastoral system compared with open pasture and loblolly pine plantation  
$9,998  
Ann Blount  
Susan Bambo  
University of Florida

 GS02-013  Developing a System to Produce Organic Plug Transplants for Organic Strawberry Production  
$9,500  
Daniel Cantliffe  
University of Florida  
Ashwin Paranjpe  
University of Florida

 GS02-018  Analysis of a Biological Control Strategy and its Potential in a Pest Management Program in Florida Cabbage  
$10,000  
Dr.Stuart Reitz  
USDA-ARS  
Nathan Herrick  
USDA-ARS-CMAVE

 GS02-019  Chemical Ecology of Microtheca ochroloma  
$3,057  
Susan Webb  
University of Florida  
Dr.Marilyn Swisher  
University of Florida  
Kristen Bowers  
USDA-ARS-CMAVE
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| GS01-009   | Competition for Nitrogen and Groundwater Nitrate Levels in Temperate Alley Cropping Systems | $10,000      | Shibu Jose  
University of Florida  
Samuel Allen  
University of Florida |
| GS00-001   | Induction of Volatile Emissions from Peanut Plants in Response to Fungal and Insect Damage | $10,000      | James Tumlinson  
Insect Attractants Unit  
Yasmin Cardoza  
Department of Entomology and Nematology |
| GS00-005   | Investigating the potential use of Trichogramma, a hymenopteran egg parasitoid, in the integrated management of lepidopteran pests of cabbage in Puerto Rico | $10,000      | Richard Pluke  
University of Florida  
Richard Pluke  
University of Florida |

**ON FARM RESEARCH/PARTNERSHIP GRANTS**

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| OS23-164   | On-farm Development of Innovative Compost-based Tabletop Systems for Improving Local Strawberry Production in Florida | $29,997      | Dr.Xin Zhao  
University of Florida |
| OS22-153   | Enhancing Stink Bug Biological Control for Increased Sustainability of Rice Production in Florida | $19,982      | Dr.Julien Beuzelin  
University of Florida, Institute of Food and Agricultural Sciences Everglades Research and Education Center |
| OS21-142   | Bridging the Fall Forage Gap with Stockpiled Limpograss Along the Southern Gulf Coast | $19,981      | Dr.Jose Dubeux, Jr.  
University of Florida - NFREC |
| OS21-146   | Evaluating Sorrel (Hibiscus sabdariffa) Varieties for Production in Florida   | $19,708      | Dr.Norma Samuel  
UF/IFAS Extension |
| OS21-147   | Development of a Push-Pull System in Avocado Groves in South Florida          | $19,923      | Dr.Xavier Martini  
University of Florida |
| OS21-148   | Plant Sap Analysis as a Tool to Optimize Fertilizer Application for Sustainable Citrus Production | $20,000      | Lorenzo Rossi, Ph.D.  
University of Florida |
| OS20-132   | Fertilizer Mismanagement Impacts on Pasture Health                           | $19,828      | Cheryl Mackowiak  
University of Florida |
| OS20-135   | On-farm Evaluation of an Innovative Anaerobic Soil Disinfection Practice for Improving Organic Carrot Production in North Florida | $19,995      | Dr.Xin Zhao  
University of Florida |
| OS20-137   | Combining Non-crop Habitat and Semiochemical Lures to Increase Natural Enemy Recruitment and Retention in Florida Vegetable Crops | $18,164      | Dr.Xavier Martini  
University of Florida |
| OS18-113   | Trap Assisted Scouting for Asian Cockroach Management in Florida              | $14,782      | Dr.Julien Beuzelin  
University of Florida, Institute of Food and Agricultural Sciences Everglades Research and Education Center |
| OS18-114   | Assisting Vegetable Growers in Florida with Soil Health Evaluation Associated with Cover Cropping/Green Manure Practice During Summer | $15,000      | Jehangir Bhadha  
University of Florida, Institute of Food and Agricultural Sciences Everglades Research and Education Center |
| OS17-104   | Evaluating the Effect of Biological Control and Planting Mixed Varieties to Manage Whitefly and Aphid Pests in Organic Squash | $14,821      | Dr.Oscar Liburd  
University of Florida |
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<td>OS17-106</td>
<td>Developing Sustainable and New Alternative Non-chemical Weed Control Strategies for Container Nursery Growers</td>
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<td>Dr. Stephen Christopher Marble University of Florida/Institute of Food and Agricultural Sciences</td>
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<td>OS17-110</td>
<td>Farmers’ Evaluation of Cover Crop Effects on Sandy Soils in the Suwannee River Basin in North Florida</td>
<td>$14,744</td>
<td>Kevin Atiern University of Florida</td>
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<td>OS16-098</td>
<td>Using Flowering Plants on Strawberry Field Edges to Enhance Natural Enemies and Pollinators and Improve Pest Control and Fruit Quality</td>
<td>$14,996</td>
<td>Justin Renkema University of Florida</td>
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<td>OS14-086</td>
<td>Use of non-native invasive tree logs for commercial mushroom production on small farms</td>
<td>$14,984</td>
<td>Dr. Stephen Hight USDA-ARS</td>
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<td>OS13-075</td>
<td>Large Scale Recycling of Used Potting Media with Solarization</td>
<td>$3,161</td>
<td>Shawn Steed UF/IFAS Extension</td>
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<td>OS13-078</td>
<td>Novel approaches to establish rhizome peanut (Arachis glabrata Benth) on bahiagrass (Paspalum notatum Flugge) pasture: from research to on-farm application</td>
<td>$14,945</td>
<td>Dr. Jose Dubeux, Jr. University of Florida - NFREC</td>
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<td>OS13-079</td>
<td>Establishing and Evaluating Selected Cover Crops on Small Farms to Increase the Impact of Beneficial Arthropods on Crop Pests</td>
<td>$14,984</td>
<td>Robert Hochmuth University of Florida</td>
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<td>OS13-082</td>
<td>Propagation of edible Pecan Truffle (Tuber lyonii) in pecan nurseries</td>
<td>$14,978</td>
<td>Dr. Matthew Smith University of Florida</td>
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<td>OS13-083</td>
<td>Grafting heirloom tomatoes for organic high tunnel production to improve season extension, disease control, and fruit yield: A partnership with local growers for technology transfer</td>
<td>$14,999</td>
<td>Dr. Xin Zhao University of Florida</td>
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<td>OS12-063</td>
<td>Offseason Management for Organic High Tunnels for Improved Pest Suppression and Soil Health</td>
<td>$14,967</td>
<td>Dr. Carlene Chase University of Florida</td>
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<td>OS11-060</td>
<td>Investigating various tactics of intercropping buckwheat with squash to increase natural enemy populations, reduce pest and disease pressure and increase yield</td>
<td>$14,978</td>
<td>Dr. Oscar Liburd University of Florida</td>
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<td>OS10-054</td>
<td>Evaluating compost and lime effects on soil organic matter, soil microbial communities and the control of Fusarium wilt in commercial tomato grown in Florida’s sandy soils</td>
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<td>Amy Shober University of Florida</td>
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<td>OS10-056</td>
<td>Improving Cover Crop Management in Florida Row, Vegetable and Organic Citrus Systems</td>
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<td>Dr. Danielle Treadwell University of Florida</td>
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<td>OS08-043</td>
<td>Monitoring Nutrient Availability and Leaching Below the Root Zone in Organic Vegetable Production</td>
<td>$14,900</td>
<td>Dr. Danielle Treadwell University of Florida, Bee Ling Poh University of Florida, Eric Simonne University of Florida</td>
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<td>OS06-029</td>
<td>Development and implementation of a trap cropping system to suppress stink bugs in the southern Coastal Plain</td>
<td>$15,000</td>
<td>Dr. Russell Mizell, III NFREC-Quincy, University of Florida</td>
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<td>OS05-026</td>
<td>Optimization of Irrigation Practices in Organic and Sustainable Vegetable Production with Soluble Dye as an Educational Tool</td>
<td>$14,663</td>
<td>Eric Simonne University of Florida</td>
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<td>OS04-022</td>
<td>A Low Cost Trapping System for Control of the Small Hive Beetle Aethina Tumida Murray, A Pest of Honey Bee Colonies</td>
<td>$15,000</td>
<td>Peter Teal USDA-ARS/CMAVE</td>
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<td>OS03-015</td>
<td>Performance of Various Forage Combinations Under Thinned Pine Canopies in North Florida</td>
<td>$14,982</td>
<td>Ann Blount</td>
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<td>OS03-017</td>
<td>Soil Water Movement in Vegetables Grown with Plasticulture</td>
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<td>Eric Simmone Univ. of Florida IFAS</td>
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**SUSTAINABLE COMMUNITY INNOVATION GRANTS**

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<td>CS15-094</td>
<td>Who’s Connected? Sustainable Producers in the North Central Florida Food System</td>
<td>$34,665</td>
<td>Dr. Kathryn Stofer University of Florida</td>
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<tr>
<td>CS09-072</td>
<td>Wildwood Growers’ Market - Starting a Local Food System</td>
<td>$7,910</td>
<td>Susan Kelly UF/IFAS Sumter Co. Extension</td>
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<td>CS06-044</td>
<td>Florida Farm Link – Building the Foundation of a Sustainable Community Food System by Connecting Sustainable Agriculture to Economic Development Initiatives</td>
<td>$9,521</td>
<td>Laura Morton NRCS/Florida West Coast RC&amp;D</td>
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<td>CS04-023</td>
<td>Youth as Community Organizers</td>
<td>$10,000</td>
<td>Ellen Huntley Florida Organic Growers</td>
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<td>CS04-028</td>
<td>Farming and Conservation Easements: A Win-Win Partnership</td>
<td>$10,000</td>
<td>Mark Hostetler University of Florida</td>
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<td>CS03-010</td>
<td>&quot;Santa Rosa Fresh&quot; Marketing Assistance</td>
<td>$10,000</td>
<td>Paula Davis Santa Rosa County Joan Hughes TEAM Santa Rosa EDC</td>
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<td>CS02-008</td>
<td>Test Marketing of New Label in Southwest Florida for USA Grown/Living Wage Produce</td>
<td>$5,200</td>
<td>Richard Nogaj Harvest for Humanity</td>
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**EDUCATION ONLY 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>EDS23-046</td>
<td>Local Food Needs Local Seed: Increasing Production and Use of Locally Adapted Seed with a Farm to Community Network</td>
<td>$41,000</td>
<td>Melissa DeSa Working Food</td>
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<td>EDS22-34</td>
<td>Community Apiary - Providing Experiential Education and Access for Novice Beekeepers in an Urban Setting</td>
<td>$49,801</td>
<td>Ju’Coby Pittman Clara White Mission Octavious Carr The Herban Bee Mallory Schott Clara White Harvest Farms</td>
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EDS19-10  Harnessing Microbes for Sustainable Food Production  $44,468  Masanori Fujimoto
University of Florida

EDS18-08  Educational Materials for Cover Crop Adoption and Use in the Subtropics and Tropics  $46,999  Dr.Danielle Treadwell
University of Florida

Total funding from the USDA SARE program to Florida
$9,166,877

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).