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# AGRICULTURE PROJECTS FUNDED IN TENNESSEE

by USDA's  
Sustainable Agriculture Research and Education (SARE) Program  
1988-2019

Tennessee has been awarded \$2,473,794 grants to support 68 projects, including but not limited to, 10 research and/or education projects, 6 professional development projects and 23 producer-led projects. Tennessee has also received additional SARE support through multi-state projects.

## RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">LS18-287</a>	Cover Crops in Woody Ornamental Production: Impact on Plant Growth, Arthropod Pests, Soil-Borne Pathogens and Weeds	\$284,869	Dr.Karla Addesso Tennessee State University
<a href="#">LS13-254</a>	Improving Fitness in Meat Goat Herds through Better Genetic Management	\$230,000	Dr.Richard Browning, Jr. Tennessee State University
<a href="#">LS12-253</a>	Breeding Organic Corn varieties to resist GMO contamination	\$48,183	Dr.Dennis West University of Tennessee
<a href="#">LS05-172</a>	Forage systems for the sustainable production of uniform goat carcasses	\$200,000	Richard Joost University of Tennessee at Martin
<a href="#">LS03-147</a>	Bioactive Natural Products: A feasible method of organic disease management in float bed production systems	\$19,883	Kimberly Gwinn University of Tennessee
<a href="#">LS03-152</a>	Improving Organic Crop Production with Enhanced Biofumigation and Composting Systems	\$273,440	Carl Sams The University of Tennessee
<a href="#">LS95-068</a>	Using Farm Family Studies to Teach Sustainable Agriculture	\$146,630	Tim Cross University of Tennessee, Ag Economics
<a href="#">LS94-064</a>	Development of Sustainable Area-Wide Weed Management Practices for Improved Land Utilization (AS93-08)	\$3,760	Jerome F. Grant University of Tennessee, Entomology & Plant Pathology
<a href="#">LS93-052</a>	Utilization of Dairy Manure in Low-input, Conservation Tillage Animal Feed Production Systems	\$90,635	Michael D. Mullen University of Tennessee, Plant and Soil Science
<a href="#">LS90-022</a>	Influence of Integrated Pest Management (IPM) On Low-input Sustainable Agriculture (LISA) in the Southern Region	\$25,000	Charles H. Hadden University of Tennessee

## PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
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<a href="#">ES18-141</a>	Soil SMaRTS (Specific Management and Resources Training for Sustainability) for Soil Health in Tennessee	\$77,413	Dr.Jason deKoff Tennessee State University
<a href="#">ES14-121</a>	Sustainable ACEs (Agriculture, Curricula, Energy) for Tennessee	\$77,757	Dr.Jason deKoff Tennessee State University
<a href="#">ES03-069</a>	Training Educators to Protect Honey Bee Pollinators with Sustainable Pest Management	\$126,648	Dr.John Skinner Univ. Tennessee
<a href="#">ES02-061</a>	A Statewide Journey of Sustainable Success: Hands-On Training	\$48,000	Rob Holland Center for Profitable Agriculture
<a href="#">ES97-029</a>	Implementing Tennessee's Strategic Plan for Sustainable Agriculture: Utilizing On-Farm Case Studies for Teaching Advanced Management and Marketing to Extension Staff	\$10,000	Dr.Clark Garland University of Tennessee
<a href="#">LST94-004</a>	Sustainable Dairy Systems Manual and Training	\$90,000	Dr.Clark Garland University of Tennessee

#### FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">FS19-315</a>	A Study of the Effects of Black Woven Polypropylene on Soil Biota	\$9,670	Tera Kurtz
<a href="#">FS18-310</a>	Increasing Farm Fertility and Profits with Mushroom Mulches	\$9,774	David Wells, III Henosis
<a href="#">FS17-294</a>	Adaptive Winter Squash	\$1,822	Megan Allen Care of the Earth Community Farm
<a href="#">FS17-295</a>	Incorporating Conservation Solutions into Alternative Crop Transplant Systems	\$9,999	Sarah Bellos Farmer
<a href="#">FS17-297</a>	Bacillus thuringiensis var. Israelensis as a Larvacidal on a Rotational Grazing System for Ruminants to Combat Haemonchus contortus	\$10,000	Jo Ann Harris Farmer
<a href="#">FS12-263</a>	Selective breeding of honey bees for multiple traits with a priority on nosema disease resistance	\$10,000	Michael Wilson Rosecomb Apiaries
<a href="#">FS10-241</a>	Sustainable Cultivation of Plant-derived Indigo for Diversification and On-farm Value-added Dye Pigment Production	\$9,871	Sarah Bellos Farmer
<a href="#">FS07-214</a>	Sustainable Low-Cost Heating for Season Extension Structures	\$14,928	Steve Hodges Clinch Appalachian Farm Enterprises
<a href="#">FS07-221</a>	Natural Comb Management of Honey Bees for Varroa Control	\$15,000	Michael Wilson

<a href="#">FS06-203</a>	A Demand-Driven Approach to Specialty Crop Market Development	\$12,324	Dianne Levy Appalachian Spring Cooperative
<a href="#">FS06-200</a>	Establishing Natural Controls of Competitive Fungi in the Production of Shiitake Mushrooms	\$8,832	James DAY
<a href="#">FS05-188</a>	Aquaculturally Derived Products as Fertilizers for High-value Organic Crop Production	\$9,953	Marc Cardosa
<a href="#">FS05-189</a>	Salsa Pepper Project	\$9,660	Sara Gardner
<a href="#">FS04-181</a>	Selection of Hygienic Honey Bee Queens Resistant to Tracheal Mites	\$9,987	Edwin Holcombe
<a href="#">FS02-155</a>	Cooperating for Success: Building a Value-added Marketing Cooperative for Advantage in the Marketplace	\$15,000	Paul Miller Appalachian Spring Cooperative
<a href="#">FS02-157</a>	Northern Tennessee Farmer's Association Cooperative Farmers Market Project	\$13,755	Michael Osborne Northern Tennessee Farmer's Assn. Cooperative
<a href="#">FS01-131</a>	Fungicidal Effects of Compost Tea on Organic Strawberry Production	\$9,814	John Dysinger Bountiful Blessings Organic Farm
<a href="#">FS99-087</a>	The Effect of Municipal Compost on Christmas Trees	\$6,985	Curtis Buchanan
<a href="#">FS99-103</a>	Evaluating the Cost of Production of Row Crops Using Precision Farming Technologies	\$7,816	J. Tucker
<a href="#">FS96-045</a>	Grazing Alternatives to Tall Fescue for Stocker Cattle	\$9,982	Chris Pitts
<a href="#">FS96-042</a>	Low Input Sustainable Agriculture Short Course	\$9,650	Alexander McGregor
<a href="#">FS96-043</a>	Sustainable Cultivation of Medicinal Herbs as a Cash Crop Alternative to Tobacco	\$5,004	Paul D. Miller Tamsen Farm
<a href="#">FS94-012</a>	Swine Lagoon Management System	\$10,000	Kenneth Moore

#### GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">GS17-168</a>	Evaluating Soil Microbial Communities and Cropping Systems for Biomass Feedstock Production on Degraded Lands	\$14,838	E. Kudjo Dzantor Tennessee State University Ekundayo Adeleke Tennessee State University
<a href="#">GS17-175</a>	Investigating the Impact of Plant	\$16,443	Dilip Nandwani

	Spacing on Yields of Sweet Potato Produced in Organic Systems		Tennessee State University Sochinwechi Nwosisi Tennessee State University
<a href="#"><u>GS16-155</u></a>	Sustainable Management of Soil-borne Diseases in Nursery Production	\$11,000	Dr.Fulya Baysal-Gurel Tennessee State University Prabha Liyanapathiranage
<a href="#"><u>GS16-157</u></a>	Integration of Silvopasture and Nut Production in the Southeast	\$7,906	Dr.Hill Craddock University of Tennessee at Chattanooga Conrad Blunck
<a href="#"><u>GS14-128</u></a>	Assessment of beneficial microorganisms: Trichoderma, Actinomycetes, and Bacillus in anaerobic soil disinfestation (ASD)	\$10,993	Dr.David Butler The University of Tennessee Utsala Shrestha University of Tennessee, Plant Sciences
<a href="#"><u>GS13-124</u></a>	Examining the Influence of Farmers' Market Managers Perceived Roles on Business Opportunities for Small- and Moderate-size Farms and Access to Healthful Foods for Low-income Households	\$6,479	Dr.Deborah Slawson East Tennessee State University Rachel Ward East Tennessee State University
<a href="#"><u>GS10-095</u></a>	Efficacy of entomopathogenic fungi in an integrated pest management plan for cucumber beetles in melons and pumpkins	\$8,154	Annette Wszelaki University of Tennessee Mary Rogers University of Tennessee
<a href="#"><u>GS09-086</u></a>	Testing the efficacy of three new alternative treatments for Nosema disease of honey bees in Tennessee	\$9,963	Dr.John Skinner Univ. Tennessee Paul Rhoades University of Tennessee
<a href="#"><u>GS08-077</u></a>	Providing habitat for native pollinators and determination of native pollinator contribution to pollination of cucurbits and blueberries at farm sites	\$10,000	Dr.John Skinner Univ. Tennessee Michael Wilson Rosecomb Apiaries
<a href="#"><u>GS04-038</u></a>	Determining Cost-Effectiveness of Best Management Practices in Sustainable Watershed Management: A Decision- Making Tool for Restoring Bullrun Creek	\$9,910	Joanne Logan University of Tennessee Candice Jones University of Tennessee
<a href="#"><u>GS02-016</u></a>	Collaborative Learning among Farmers as an Approach to Alternative Agricultural Education	\$9,540	John Peters University of Tennessee Robin Fazio Sonrisa Farm
<a href="#"><u>GS01-011</u></a>	Suppression of Soilborne Phytopathogenic Fungi of Tomatoes via Integrated Production Systems that Utilize Biofumigation, Composted Amendments, Solarization, and Chemical Fumigants.	\$10,000	Carl Sams The University of Tennessee Martin Lyons University of Tennessee
<a href="#"><u>GS00-002</u></a>	Control of Soilborne Plant Pathogens of tomatoes with incorporation of Indian Mustard (Brassica juncea)	\$10,000	Carl Sams The University of Tennessee Stephanie G Harvey Georgia Southwestern State University

#### ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#"><u>OS18-112</u></a>	Biofumigants for Sustainable Soil-borne Disease Management in Nursery Production	\$15,000	Dr.Fulya Baysal-Gurel Tennessee State University
<a href="#"><u>OS17-101</u></a>	Amblyseius swirskii Athias-Henriot for	\$14,872	Dr.Karla Addesso

	Control of Arthropod Pests in Woody Ornamental Propagation		Tennessee State University
<a href="#"><u>OS14-084</u></a>	Incorporating a Cover Crop into Field Grown Nursery Production to Manage Flatheaded Appletree Borer with the Simultaneous Benefit of Improved and Sustainable Weed Management	\$14,997	Dr.Karla Addesso Tennessee State University
<a href="#"><u>OS11-057</u></a>	Organic forage production systems for organic dairies in the Southern region	\$14,993	Dr.David Butler The University of Tennessee
<a href="#"><u>OS02-002</u></a>	Specialty Flowering Bulbs as a Sustainable Alternative Crop for Tobacco Farmers in Middle Tennessee	\$14,910	Steve Garton

#### **SUSTAINABLE COMMUNITY INNOVATION GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#"><u>CS10-075</u></a>	Building Sustainable Families through a Celebration of Low-Impact and Organic Community-Supported Agriculture	\$10,000	Ruth Correll UT Extension, Wilson County
<a href="#"><u>CS10-077</u></a>	Live Green and Prosper Community Education and Outreach Initiative	\$10,000	Erica Duarte Upper Cumberland Broadcast Council - WCTE
<a href="#"><u>CS07-056</u></a>	"Gathering" of Homestead Economic and Entrepreneurs of Food Based, Organic Foods and Other Related Businesses	\$10,000	Martha Pile UT Extension of Montgomery County
<a href="#"><u>CS07-056A</u></a>	"Gathering" of Homestead Economic and Entrepreneurs of Food Based, Organic Foods and Other Related Businesses	\$10,000	Martha Pile UT Extension of Montgomery County
<a href="#"><u>CS06-049</u></a>	Appalachian Sustainable Agriculture and Energy Project	\$40,000	John Jackson Appalachian Native Plants Inc
<a href="#"><u>CS06-048</u></a>	Schools + Potatoes Upper E. Tennessee Development System (SPUDS)	\$39,762	Steve Hodges Clinch Appalachian Farm Enterprises
<a href="#"><u>CS02-004</u></a>	Homegrown, From Our Farms to Your Table: Growing a Farmers' Cooperative in East Tennessee	\$6,436	Steve Hodges Clinch Appalachian Farm Enterprises

#### **PDP STATE PROGRAM GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#"><u>STN19-001</u></a>	2019 Model State Program	\$22,222	Rob Holland Center for Profitable Agriculture Roy Bullock Tennessee State University
<a href="#"><u>STN18-001</u></a>	STN18-001	\$55,555	Rob Holland Center for Profitable Agriculture
<a href="#"><u>STN17-001</u></a>	STN17-001 Model State Program	\$55,555	Rob Holland Center for Profitable Agriculture
<a href="#"><u>STN16-001</u></a>	2016-2017 Model State Program	\$22,222	Rob Holland

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## **Total funding from the USDA SARE program to Tennessee \$2,473,794**

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

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