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# AGRICULTURE PROJECTS FUNDED IN TEXAS

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

Texas has been awarded \$7,033,213 grants to support 108 projects, including but not limited to, 33 research and/or education projects, 7 professional development projects and 25 producer-led projects. Texas has also received additional SARE support through multi-state projects.

## RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">LS19-313</a>	Organic and Conventional Agriculture: Learning from Each Other to Promote Soil Health and Economic Viability in West Texas	\$299,667	Dr.Katie Lewis Texas A&M AgriLife Research
<a href="#">LS19-312</a>	Regional Food Transportation for Texas Farmers	\$299,311	Caroline Krejci The University of Texas at Arlington
<a href="#">LS18-288</a>	A Southern Regional Water Conference to Improve Producer Adoption of Sustainable Water Management Practices	\$48,000	Dr.Diane Boellstorff Texas A&M AgriLife Extension Service
<a href="#">LS17-277</a>	Indicators and Soil Conservation Practices for Soil Health and Carbon Sequestration	\$312,000	Dr.Barbara Bellows Tarleton State University/ TIAER
<a href="#">LS17-283</a>	Developing Organic Cropping Systems for Grain Production in Texas	\$276,000	Ronnie Schnell Texas A&M University, Soil & Crop Sciences
<a href="#">LS17-286</a>	Long-term Agroecosystems Research and Adoption in the Texas Southern High Plains - Phase III	\$300,000	Dr.Charles West Texas Tech University
<a href="#">LS16-275</a>	Evaluating Organic Pest Control Products for Strawberries in Combination with High and Low Tunnels for Limited Resource Farmers in the Mid-South	\$246,413	Dr.Russell Wallace Texas A&M University AgriLife Extension
<a href="#">LS16-271</a>	Intensifying Cropping Systems in Semi-Arid Environments to Enhance Soil Health and Profitability	\$232,827	Dr.Paul DeLaune Texan A&M AgriLife Research / Soil and Crop Sciences
<a href="#">LS14-261</a>	Long-term AgroEcosystems Research and Adoption in the Texas Southern High Plains – Phase II	\$300,000	Dr.Charles West Texas Tech University
<a href="#">LS14-264</a>	Beyond Fresh: Expanding Markets for Sustainable Value-added Food Products in Texas	\$220,000	Mike Morris National Center for Appropriate Technology
<a href="#">LS12-249</a>	Improving Soil Quality to Increase Yield and Reduce Diseases in Organic Rice	\$225,000	Fugen Dou Texas A&M AgriLife Research

Production

<a href="#"><u>LS11-238</u></a>	Long-term AgroEcosystems Research and Adoption in the Texas Southern High Plains – Phase I	\$329,999	Dr.Charles West Texas Tech University Philip Brown Texas Tech University
<a href="#"><u>LS10-229</u></a>	Integrated Crop and Livestock Systems for Enhanced Soil Carbon Sequestration and Microbial Diversity in the Semiarid Texas High Plains	\$160,000	Dr.Jennifer Moore-Kucera Texas Tech University
<a href="#"><u>LS10-236</u></a>	Traceability in Specialty Crop Production and Supply Chains: Distilling a Research and Extension Agenda	\$33,000	Kathryn Boys Virginia Tech Kathryn Boys Clemson University
<a href="#"><u>LS08-202</u></a>	Crop-livestock Systems for Sustainable High Plains Agriculture	\$200,000	Dr.Vivien Allen Texas Tech University
<a href="#"><u>LS08-208</u></a>	Marketing of locally produced sustainable animal fiber products	\$140,000	John Bernard University of Delaware Hikaru Hanawa Peterson Kansas State University Gwendolyn Hustvedt Texas State University
<a href="#"><u>LS07-201</u></a>	Pigeon pea: a multipurpose, drought resistant forage, grain and vegetable crop for sustainable southern farms	\$200,000	Dr.John Sloan Texas AgriLife Research
<a href="#"><u>LS05-175</u></a>	Sustainable and profitable control of invasive plant species by small ruminants	\$178,000	Dr.James Muir Texas A&M AgriLife Research
<a href="#"><u>LS05-214</u></a>	SARE Research and Education Program Impacts and Diffusion	\$31,526	Marari Suvedi CARRS Center for Evaluative Studies
<a href="#"><u>LS03-150</u></a>	Sustainable and profitable control of invasive species by browsing goats on small farms	\$14,199	Dr.James Muir Texas A&M AgriLife Research
<a href="#"><u>LS03-144</u></a>	Expanding the Marketing Opportunities for Organic Growers in Texas	\$19,924	Douglas Constance Sam Houston State University
<a href="#"><u>LS02-131</u></a>	Forage and Livestock Systems for Sustainable High Plains Agriculture	\$251,805	Dr.Vivien Allen Texas Tech University
<a href="#"><u>LS00-117</u></a>	System for value-added export of manure nitrogen and phosphorus through turfgrass sod	\$149,726	Donald Vietor, PhD Texas A&M University, Soil & Crop Sciences
<a href="#"><u>LS99-100</u></a>	Systems for sustainability of alfalfa production on acid, Coastal Plain soils using various harvesting strategies	\$149,750	Vincent Haby Texas Agricultural Experiment Station
<a href="#"><u>LS99-108</u></a>	System for Conserving and Adding Value to Manure Sources of Nutrients in Turf-grass Sod	\$16,854	Donald Vietor, PhD Texas A&M University, Soil & Crop Sciences
<a href="#"><u>LS98-097</u></a>	Introducing Alternative Crops Into Traditional Cotton-Grain Farming to Aid	\$114,279	Roland E. Roberts Texas A&M University Research and Extension Center

	Transition To "Freedom to Farm" Agriculture		
<a href="#">LS97-082</a>	Sustainable Crop/Livestock Systems in the Texas High Plains	\$222,125	Dr.Vivien Allen Texas Tech University
<a href="#">LS95-069</a>	Managing Soil Phosphorous Accumulation From Poultry Litter Application Through Vegetable/Legume Rotations	\$135,000	D. R. Earhart Texas Agricultural Experiment Station
<a href="#">LS92-048</a>	Developing Environmentally Sound Poultry Litter Management Practices for Sustainable Cropping Systems	\$140,000	D. R. Earhart Texas Agricultural Experiment Station
<a href="#">LS92-047</a>	Farm Scale Evaluation of Alternative Cotton Production Systems	\$60,000	William M. Lyle Texas Agricultural Experiment Station
<a href="#">LS89-015</a>	Enhancement of the Stability of Southern Region Agroecosystems Through Profitable Transition to Sustainable Agriculture	\$121,989	Keith Jones Texas Department of Agriculture
<a href="#">LS88-002</a>	Whole-farm Low/Reduced Input Farming Systems and Educational Program	\$90,000	Hoover Carden Prairie View A & M University
<a href="#">LS88-010</a>	Solarization and Living Mulch to Optimize Low-Input Production Systems for Small Fruits (88-87-4)	\$80,000	Charles Long Texas A & M University

#### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">ES19-147</a>	Training Texas County Extension Agents and Mentor Ranchers to Improve Small Ruminant Health and Productivity Through Natural Genetic Selection Strategies	\$76,996	Dr.Reid Redden Texas A&M AgriLife Extension
<a href="#">ES18-139</a>	Natural Resource Management for Sustainable Agriculture Production in East Texas	\$42,773	Dr.Vanessa Corriher-Olson Texas A&M AgriLife Extension
<a href="#">ES18-142</a>	Promotion and Adoption of Sustainable Agriculture Practices in Texas: Training the Trainers	\$80,000	Dr.Jake Mowrer Texas A&M Agrilife Extension
<a href="#">ES17-136</a>	Ranching with Wildlife: Teaching Sustainable Livestock Production Practices for Wildlife Habitat	\$78,838	John Tomecek Texas A&M Agrilife Extension Service
<a href="#">ES13-120</a>	Farming for the Future: Adopting Sustainable Agriculture Practices	\$55,904	Dr.Megan Clayton Texas A&M AgriLife Extension Service
<a href="#">ES99-045</a>	Achieving Rangeland Sustainability Through Total Resource Management	\$157,061	William Fox, Ph.D. Texas Cooperative Extension C. Wayne Hanselka, Ph.D. Texas Cooperative Extension
<a href="#">LST94-002</a>	Environmentally and Economically Sustainable Use of Rangeland	\$72,570	James F. Cadenhead Texas A & M Research and Extension

## FARMER/RANCHER GRANTS

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#"><u>FS19-312</u></a>	Tagasaste: A new feed source for West Texas	\$9,670	Malinda Beeman
<a href="#"><u>FS18-306</u></a>	Subsoiling: An affordable and effective water and soil conservation strategy	\$9,720	Amanda Krause Parker Creek Ranch
<a href="#"><u>FS17-299</u></a>	Organic Sweet Potato as a Commercial Crop in South Texas	\$10,000	Lois Kim Farmer
<a href="#"><u>FS14-281</u></a>	Organic Cultivation Methods for Asparagus as an Alternative Crop in South Texas	\$14,736	Gilbert Garza Texas/Mexico Border Coalition CBO
<a href="#"><u>FS13-277</u></a>	Evaluating switchgrass in marginal land as a beneficial insect habitat and as compost source for vegetable production	\$8,379	Cynthia Remsing Lynn Remsing
<a href="#"><u>FS12-262</u></a>	Development of an innovative forage crop system for pasture raised swine	\$8,303	Ron Luce Poppa Skinny's Farm
<a href="#"><u>FS10-246</u></a>	Low Cost Geothermal Greenhouse Heating System for Southern Climates	\$9,999	Tanya Miller Millican Farms, LLC
<a href="#"><u>FS07-219</u></a>	Treating Soil Compaction Using Woven Weed Fabric	\$9,886	Roy Riddle
<a href="#"><u>FS06-198</u></a>	Evaluation of Mulches for Organic Cantaloupe Production in Semi-Arid Regions	\$9,855	John Chandler
<a href="#"><u>FS06-205</u></a>	Cover Crop Optimization for Sustainable Forage Systems on a Southern Dairy Farm	\$9,872	Neil R. Miller World Hunger Relief, Inc.
<a href="#"><u>FS05-196</u></a>	Weed Control for Row Crops Using Corrugating Linerboard/Medium Paper	\$7,399	Michael E. Tolbert The Landowners Association of Texas–Tyler Chapter
<a href="#"><u>FS05-190</u></a>	Addressing Cedar Infestations – Using Animal Impact to Increase Forage Production and Improve Soil Health	\$14,987	Peggy Cole Jones Holistic Resource Management of Texas, Inc
<a href="#"><u>FS03-161</u></a>	Sustainable Pastured Layer Research Project	\$14,992	Graciela Alvarado Texas/Mexico Border Coalition Community Based Org.
<a href="#"><u>FS03-174</u></a>	Goat Range-Nutrition Performance Test	\$13,113	Marvin F. Shurley Meat Goat Association
<a href="#"><u>FS02-151</u></a>	Increase Soil Organic Matter in Citrus Soils	\$8,112	Jim Hoffmann
<a href="#"><u>FS01-142</u></a>	Pepitas de Ajo: permanent ground cover	\$14,132	Lydia Villanueva

	in garlic production		Comm. Approaching Sustainability w/ Agroecology
<a href="#">FS99-090</a>	Crop Rotation and Rotational Grazing Study	\$9,876	Ken Graff
<a href="#">FS99-088</a>	Internal Parasite Resistance Selection Method for Sheep	\$4,844	Ray Cloudt
<a href="#">FS98-075</a>	An Intensive Marketing Workshop for Growers and Ranchers	\$7,561	Sue Johnson Texas Organic Growers Association
<a href="#">FS97-050</a>	Effects of Conservation Tillage on Water Quality in Southern Texas	\$8,000	Charles Eubanks Cameron County Field
<a href="#">FS97-053</a>	Cool Season and Warm Season Grasses to Stabilize Erodible Soils and Increase Profitability	\$10,000	David Kearney Wichita County Field Crops Committee
<a href="#">FS96-036</a>	Native Warm Season Grasses As Alternative Hay Source to Annual Sorghum/Sudan Grasses on Family-Operated Goat Dairy	\$9,640	Lee B. Dexter White Egret Farm
<a href="#">FS95-021</a>	Pecan IPM Using Black-Eyed Peas as a Trap Crop	\$4,000	Kyle Brooksheir
<a href="#">FS94-001</a>	Controlling Aphids with Harmonia Lady Beetle in Pecan Orchards	\$4,600	Cindy Wise Texas Pecan Growers Assoc.
<a href="#">FS94-010</a>	Site Specific Applications of Seed/Fertilizer/Chemicals	\$10,000	Ricky & Becky Meinen

#### GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">GS19-211</a>	Roadblocks to Success: Needs assessment of small producers in Texas	\$10,132	Ken Mix Katie Tritsch Texas State University
<a href="#">GS19-209</a>	Improving Resilience, Sustainability and Nutritional Properties of Specialty Crops Using Composted Spent Coffee Grounds	\$16,044	David Reed Amanda Birnbaum
<a href="#">GS19-198</a>	The Success of Organic and Other Sustainable Dual-Purpose Wheat Systems Depend on Access to Adapted Varieties	\$16,500	Curtis Adams Philip Hinson
<a href="#">GS18-179</a>	Developing Suitable Cover Crop Systems for South Texas: Evaluating Different Late-Summer and Winter Cover Crop Species	\$16,352	Muthu Bagavathiannan Spencer Samuelson
<a href="#">GS18-193</a>	Investigating Controls Over Nodulation and Nitrogen Fixation in Leguminous Cover Crops in Subtropical South Texas	\$16,500	Dr.Alexis Racelis University of Texas - Rio Grande Valley Stephanie Kasper University of Texas Rio Grande Valley

<a href="#"><u>GS18-196</u></a>	Effects of Cumulative Cattle Trampling on Soil Bulk Density and Infiltration of Rain Water on an Annual Forage Crop Pasture	\$9,001	Dr.Charles West Texas Tech University Kathryn Radicke
<a href="#"><u>GS16-160</u></a>	Agroecological methods to manage brassica pests on organic farms	\$11,000	Dr.Alexis Racelis University of Texas - Rio Grande Valley Madiline Marshall
<a href="#"><u>GS16-161</u></a>	Examining the role of bats in pest management in agroecosystems of south Texas	\$10,223	Dr.Alexis Racelis University of Texas - Rio Grande Valley Katharine Jones The University of Texas at Rio Grande Valley
<a href="#"><u>GS15-148</u></a>	Multifunctionality of Cover Crops in South Texas: Looking at multiple benefits of cover cropping on small farms in a subtropical climate	\$8,953	Dr.Alexis Racelis University of Texas - Rio Grande Valley Savannah Rugg University of Texas Pan-American
<a href="#"><u>GS15-152</u></a>	Evaluation of winter annual cover crops under multiple residue managements: Impacts on land management, soil water depletion, and cash crop productivity.	\$9,383	Dr.Charles West Texas Tech University Dr.Lisa Baxter University of Georgia (Tifton Campus)
<a href="#"><u>GS14-133</u></a>	Effects of Simulated and Insect Herbivory on Total and Protein Percipitable Phenolic Concentrations of Two Legumes	\$9,040	Dr.James Muir Texas A&M AgriLife Research Tiana Blackmon Tarleton State University
<a href="#"><u>GS14-138</u></a>	Use of Artificial Lighting to Increase Photoperiod Length for Pasture-Raised Laying Hens to Improve Egg Productivity and Quality	\$10,997	Dr.Jackie Wahrmund University of Kentucky Margaret Morgan Texas A&M University-Commerce
<a href="#"><u>GS12-109</u></a>	Factors contributing to the economic impact of cotton fleahoppers, <i>Pseudatomoscelis seriatus</i>	\$9,336	Micky Eubanks Auburn University Loriann Garcia Texas A&M University
<a href="#"><u>GS11-107</u></a>	Managing Climate Change on Apple Orchards	\$9,954	Dr.James Veteto University of North Texas Stephen Carlson University of North Texas
<a href="#"><u>GS11-108</u></a>	Evaluating functional diversity in an organic intercropping system	\$10,000	Dr.Astrid Volder Texas A&M University Jose Franco Texas A&M University
<a href="#"><u>GS07-056</u></a>	Allelopathic effects of small grain cover crops on cotton plant growth and yields	\$10,000	Dr.Vivien Allen Texas Tech University Yue Li Texas Tech University
<a href="#"><u>GS07-064</u></a>	Cropping systems for sustainable nutrient management and dairy production	\$10,000	Donald Vietor, PhD Texas A&M University, Soil & Crop Sciences Ronnie Schnell Texas A&M University, Soil & Crop Sciences
<a href="#"><u>GS04-040</u></a>	Cycling of composted biosolids through turfgrass sod enhances sustainability across agricultural and urban landscapes	\$10,000	Donald Vietor, PhD Texas A&M University, Soil & Crop Sciences Nels Hansen Soil & Crop Sciences Department
<a href="#"><u>GS03-021</u></a>	Development of Methodology to Measure Net Feed Efficiency in Bulls to	\$10,000	Gordon Carstens Texas A&M University

Enhance Profitability and Environmental Sustainability of Beef Production

<a href="#"><u>GS02-012</u></a>	Optimizing Water Use for Three Old World Bluestems in the Texas High Plains	\$10,000	Dr.Vivien Allen Texas Tech University Dirk Philipp Texas Tech University
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#### ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#"><u>OS19-128</u></a>	Sustainable Pasture Management in Texas: Optimizing forage production and nutrient use in various environments and soils	\$14,298	James Kiniry
<a href="#"><u>OS19-131</u></a>	Advancing the Frontier of Legume Cover Crops and Building Integrated System Resilience in Semi-arid West Texas	\$15,000	Dr.Reagan Noland Texas A&M AgriLife Extension
<a href="#"><u>OS18-121</u></a>	Integrating Cover Crops as Potential Weed and Pest Management Strategy in Organic Vegetable Farms in South Texas	\$15,000	Pushpa Soti University of Texas Rio Grande Valley
<a href="#"><u>OS18-119</u></a>	Supporting Alternative Crop Options Through Improved Fertility Recommendations for Canola in Central and South Texas	\$14,811	Larry Redmon Texas Cooperative Extension
<a href="#"><u>OS17-108</u></a>	Using Mycorrhizal Fungi to Improve Soil Health and Increase Yield in Organic Vegetable Farms	\$14,995	Dr.Alexis Racelis University of Texas - Rio Grande Valley
<a href="#"><u>OS16-095</u></a>	Deep Soil Profile Sampling of Nitrate for Residual Nitrogen Credit in Winter Wheat – Texas Blacklands	\$15,000	Dr.Jake Mowrer Texas A&M Agrilife Extension
<a href="#"><u>OS14-089</u></a>	Developing farmer- appropriate integrated pest management strategies in South Texas: The potential of push-pull technologies to regulate organic brassica pest	\$15,000	Dr.Alexis Racelis University of Texas - Rio Grande Valley
<a href="#"><u>OS14-087</u></a>	Determining accurate nitrate level requirements in an aquaponic system.	\$9,737	Dr.Joseph Masabni Texas A&M AgriLife Extension
<a href="#"><u>OS13-072</u></a>	Huitlacoche Production as an Alternative Crop in South Texas	\$14,962	Dr.Alexis Racelis University of Texas - Rio Grande Valley
<a href="#"><u>OS12-067</u></a>	Adaptable Wide Stale Seedbed System Combining Precision Fertilizer Placement, Conservation Irrigation Management with Reduced Tillage Practices for Long Term Farm Sustainability	\$15,000	Dionicio Valdez Texas A&M AgriLife Extension Service
<a href="#"><u>OS10-053</u></a>	BIOLOGICAL CONTROL OF SALT CEDAR ON WEST TEXAS RANCHES CONSERVES FORAGE AND WATER RESOURCES	\$14,965	Allen Knutson Texas AgriLife Extension Service
<a href="#"><u>OS06-031</u></a>	Use of Guar (Cyamopsis tetragonolaba (L.) Taub) for cover crop rotation and green manuring	\$15,000	Dr.Russell Wallace Texas A&M University AgriLife Extension



<a href="#"><u>OS05-023</u></a>	Livestock and Feedstock: Distiller's Grain and Fuel Ethanol	\$15,000	Peggy Korth Water Assurance Technology Energy Resources
<a href="#"><u>OS04-021</u></a>	Comparison of Stockpiled Bermudagrass + Annual Ryegrass and Traditional Hay-Only Winter Feeding Practices	\$14,645	Larry Redmon Texas Cooperative Extension
<a href="#"><u>OS02-006</u></a>	Evaluation and Maintenance of Sustainable Systems for Alfalfa Production and Marketing Strategies on Coastal Plain Soils	\$15,000	Larry Redmon Texas Cooperative Extension

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

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#"><u>CS10-081</u></a>	Establishing Sustainable Agriculture & Community Development in Elgin Texas	\$10,000	Amy Miller City of Elgin
<a href="#"><u>CS10-076</u></a>	Investing in Community Linkages to Improve our Food System	\$10,000	Jay Crossley Houston Tomorrow
<a href="#"><u>CS06-040</u></a>	Building Local Food & Local Communities in Western Oklahoma	\$10,000	Darryl Birkenfield Ogallala Commons
<a href="#"><u>CS03-012</u></a>	Sustainable Agriculture Innovations Lead to Rural Success	\$10,000	Gayla Kessinger Canutillo Independent School

#### **MATCHING GRANTS PROGRAM GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#"><u>MS09-001</u></a>	Building a Sustainable Future for Agriculture	\$15,000	Dr. Vivien Allen Texas Tech University

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

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#"><u>STX18-001</u></a>	2018 Model State Program Report	\$55,396	Dr. Diane Boellstorff Texas A&M AgriLife Extension Service
<a href="#"><u>STX17-001</u></a>	STX17-001 Model State Program	\$55,555	Dr. Diane Boellstorff Texas A&M AgriLife Extension Service Nelson Daniels Prairie View A&M University
<a href="#"><u>STX16-001</u></a>	2016-2017 Model State Program Texas A&M University	\$22,222	Dr. Diane Boellstorff Texas A&M AgriLife Extension Service



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**Total funding from the USDA SARE program to  
Texas  
\$7,033,213**

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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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