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 $312 million to more than 7,507 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 in Oklahoma

Project Highlight: Growing a Local Understanding of Soil Health

Some farming practices commonly used in Oklahoma have reduced the state’s soil quality, leading to soils that are often low in organic matter. To remain productive, attention needs to be placed on improving and monitoring soil quality.

Realizing the importance of such attention, Kefyalew Desta used a SARE grant to obtain local soil quality information and develop a soil quality assessment index that can be used to quantify the overall soil quality status of a farm. As Desta was testing soil properties on-farm, 65 percent of the owners participated in the sampling and discussed the results.

This engagement of the farmers paid off. According to Desta, at the beginning of the project, 65 percent of them did not know the difference between soil health and soil fertility. Following the on-farm sampling and trainings, 80 percent of the farmers are now communicating with ag educators to seek help in soil health analysis. At least 60 percent plan to use on-site soil quality testing as part of their routine soil management. Desta also coordinated in-service trainings and demonstrations, reaching over 200 people.

For more information on this project, see sare.org/projects, and search for project number OS11-058.

$3,373,238 in total funding

47 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 Oklahoma

Total awards: **47 grants**
- 13 Farmer/Rancher
- 2 Graduate Student
- 8 On Farm
- Research/Partnership
- 7 Professional Development Program
- 15 Research and Education
- 2 Sustainable Community Innovation

Total funding: **$3,373,238**
- $122,429 Farmer/Rancher
- $19,969 Graduate Student
- $113,934 On Farm
- Research/Partnership
- $635,389 Professional Development Program
- $2,464,653 Research and Education
- $16,864 Sustainable Community Innovation

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/oklahoma](southern.sare.org/sare-in-your-state/oklahoma)

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/oklahoma](southern.sare.org/state-pages/oklahoma) to learn more.

**Terry Gipson**  
Langston University  
(405) 466-6126  
terry.gipson@langston.edu

**Jason Warren**  
Oklahoma State University  
(405) 744-1721  
jason.warren@okstate.edu

For detailed information on SARE projects, go to [www.SARE.org](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 OKLAHOMA
by USDA's Sustainable Agriculture Research and Education (SARE) Program

Oklahoma has been awarded $3,373,238 grants to support 46 projects, including but not limited to, 14 research and/or education projects, 7 professional development projects and 13 producer-led projects. Oklahoma has also received additional SARE support through multi-state projects.

## RESEARCH AND EDUCATION GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| LS20-338  | Researching & Networking Native American & Socially Disadvantaged Farmers Traditional Market Gardening Production System Resiliency | $298,066     | Dr. Joshua Ringer  
Langston University School of Agriculture and Applied Sciences  
Julie Gahn  
Oklahoma Farmers and Ranchers Association  
Denis Haga  
Pawnee Nation College  
Dr. Tracey Payton-Miller  
Langston University School of Agriculture and Applied Sciences  
Dr. Monte Randall  
College of the Muscogee Nation |
| LS20-344  | Developing a Sustainable Meat Goat Production and Marketing System for the Southeastern United States through an 1890 Universities Consortium | $600,000     | Terry Gipson  
Langston University  
Dr. Richard Browning, Jr.  
Tennessee State University  
Dr. Nirodha De Silva  
Langston University  
Dr. Kesha Henry  
Prairie View A&M University  
Dr. Uma Karki  
Tuskegee University  
Dr. Brou Kouakou  
Fort Valley State University  
Angela McKenzie-Jakes  
Florida A&M University  
Dr. Roger Merkel  
Langston University  
Dr. Dahlia O’Brien  
Virginia State University |
| LS06-189  | Increasing Sustainability of Southern Great Plains’ Agriculture Through No-till Production Systems | $183,000     | Jeff Edwards  
Oklahoma State University |
| LS02-139  | Developing Sustainable Stored Grain IPM Systems in Oklahoma and Texas | $133,371     | Thomas Phillips  
Oklahoma State University |
| LS01-119  | Use of goats for sustainable vegetation management in grazing lands | $172,210     | Arthur Goetsch  
Langston University |
| LS00-116  | Developing Plans for Sustainable Beef Marketing Strategies | $19,700      | Eric Allenbach  
The Kerr Center for Sustainable Agriculture, Inc. |
| LS99-102  | Demonstration of a Sustainable Integrated Production System for Native Pecan and Beef Cattle Producers and its Effect on Ecology in Flood Prone Areas | $210,188     | B. Dean McCraw  
Dept. of Horticulture |
LS96-074 Improving Integrated Resource Management Skills of Beef Producers $163,642 Damona Doye Oklahoma State University

LS96-079 Multi-Cropping Cattle and Watermelon in the Southern Plains $54,752 Warren Roberts Oklahoma State University, Department of Horticulture


LS94-058 Post-CRP Land Management and Sustainable Production Alternatives for Highly Erodible Land in the Southern Great Plains $196,100 Thanh H. Dao USDA ARS

LS91-036 Pest Management and Orchard Floor Management Strategies to Reduce Pesticide and Nitrogen Inputs $150,000 Michael Smith Oklahoma State University

LS90-028 Substitution of Cultural Practices for Herbicides to Control Annual Rye Grass and Cheat in Small Grains $60,000 John B. Solie Oklahoma State University

LS89-013 Substitution of Cultural Practices for Herbicides to Control Annual Rye Grass and Cheat in Small Grains $140,000 John B. Solie Oklahoma State University

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES19-145</td>
<td>Southern Region SARE Professional Development Grant -- The Road to Soil Health</td>
<td>$59,442</td>
<td>Amy Hays Noble Research Institute, LLC</td>
</tr>
<tr>
<td>ES02-062</td>
<td>A Training and Educational Program to Ensure the South’s Future</td>
<td>$119,905</td>
<td>Jim Horne Kerr Center for Sustainable Agriculture</td>
</tr>
<tr>
<td>ES98-037</td>
<td>Oklahoma Master Woodland Owner Program</td>
<td>$23,640</td>
<td>William Ross Oklahoma State University Department Of Forestry</td>
</tr>
<tr>
<td>ES97-021</td>
<td>State Training Enhancement Project to Ensure Effective Sustainable Agriculture Training in Integrated Erosion Control Systems</td>
<td>$10,000</td>
<td>Gerrit Cuperus Oklahoma State University</td>
</tr>
<tr>
<td>ES97-024</td>
<td>Barriers to Sustainable Agriculture Training in Oklahoma</td>
<td>$10,000</td>
<td>Derrell Peel Oklahoma State University</td>
</tr>
<tr>
<td>ES97-027</td>
<td>A Training Program for Agriculture Educators Targeting Integrated Cow/calf Operation Management Systems</td>
<td>$342,389</td>
<td>Steven Smith Oklahoma State University</td>
</tr>
<tr>
<td>ES97-020</td>
<td>State Training in Integrated Erosion Control Systems</td>
<td>$70,013</td>
<td>Gerrit Cuperus Oklahoma State University</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>FS14-283</td>
<td>Diversification of Winter Wheat &amp; Beef Cattle Production fields Through Agroforestry &amp; Covercrop integration</td>
<td>$9,107</td>
<td>Doug Ringer Farmer</td>
</tr>
<tr>
<td>FS11-254</td>
<td>Hitting Seasonal Market Highs by breeding Meat Goats during the Summer months</td>
<td>$2,821</td>
<td>James Jones Rockin Double J Boer Goats</td>
</tr>
</tbody>
</table>
Sustainable Hair Sheep Silvopastoral System $9,980 Brother Joseph-Marie Owen

Oklahoma Farm Direct Retail Market Project $15,000 Kathy Carter-White Cherokee Small Farm Project

White Wheat Marketing System $15,000 Bob Dietrick Oklahoma White Wheat Producers’ Alliance

Fixed Film Anerobic Methane Digester $9,184 Michael H. Green

Low Cost Method of Establishing High Seral Native Grass Species $8,519 Terry Stuart Forst

The Effect of Crop Land Applied Poultry Litter on Water Quality $9,556 Rick Jeans

Integrated Goat Management System for Fiber and Meat $10,000 Claud Evans

Economics of Extended-season Cut Flower Production $8,100 Vicki Stamback Bear Creek Farm

Sustainable Wheat Management Systems $9,344 Curtis Torrance

Demonstration of No-Tillage Grain Production for Soil and Moisture Conservation $9,818 Bob Dietrick Oklahoma White Wheat Producers’ Alliance

Cut Flowers as a Sustainable Agriculture Alternative $6,000 Vicki Stamback Bear Creek Farm

---

**GRADUATE STUDENT GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS08-066</td>
<td>Conservation of Predatory Carabid Beetles (Coleoptera: Carabidae) in agroecosystems of the Southern Great Plains</td>
<td>$9,996</td>
<td>Kristopher Giles Oklahoma State University Sarah Donelson Oklahoma State University</td>
</tr>
<tr>
<td>GS03-025</td>
<td>Integrating Effects of Natural Enemies into Winter Wheat Greenbug Management</td>
<td>$9,973</td>
<td>Kristopher Giles Oklahoma State University Douglas Jones Oklahoma State University</td>
</tr>
</tbody>
</table>

**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>OS18-115</td>
<td>Practical Approaches to Microbial Community Analyses for Production Agriculture in the Southern Great Plains</td>
<td>$9,745</td>
<td>Dr.David Brown USDA-ARS Dr.Curtis Dell USDA-ARS</td>
</tr>
<tr>
<td>OS18-120</td>
<td>A Comparison of Row Cover Materials for Use in Excluding Major Insect Pests from Cucurbit Crops</td>
<td>$14,933</td>
<td>Dr.Eric Rebek Oklahoma State University Dr.Jim Shrefler Oklahoma State University</td>
</tr>
<tr>
<td>OS14-091</td>
<td>Row Cover Use Methods for Cucurbit Pest and Pollinator Management</td>
<td>$14,995</td>
<td>Dr.Jim Shrefler Oklahoma State University</td>
</tr>
<tr>
<td>Project #</td>
<td>Project Title</td>
<td>SARE Support</td>
<td>Project Leaders</td>
</tr>
<tr>
<td>-----------</td>
<td>-------------------------------------------------------------------------------</td>
<td>--------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td>CS11-084</td>
<td>Traditional Mvskoke Foods Recovery Project</td>
<td>$9,964</td>
<td>Stephanie Berryhill</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mvskoke Food Sovereignty Initiative</td>
</tr>
<tr>
<td>CS02-007</td>
<td>Pioneering the Way to the Future</td>
<td>$6,900</td>
<td>Diann Neal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Okemah Chamber of Commerce</td>
</tr>
</tbody>
</table>

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

$3,373,238

For further information on projects, contact Candace Pollock, Southern SARE public relations coordinator, at (770) 412-4786 or cpollock@uga.edu.
Sustainable Agriculture Research and Education (SARE) is funded by USDA’s National Institute of Food and Agriculture (NIFA).