



Sustainable Agriculture
Research & Education

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AGRICULTURE PROJECTS FUNDED IN ARKANSAS

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

Arkansas has been awarded \$6,289,670 grants to support 94 projects, including but not limited to, 31 research and/or education projects, 15 professional development projects and 8 producer-led projects. Arkansas has also received additional SARE support through multi-state projects.

State Sustainable Agriculture Coordinators:

Henry S. English
University of Arkansas at Pine Bluff
englishh@uapb.edu
(807) 575-7246

Amanda McWhirt
University of Arkansas Cooperative Extension
amcwhirt@uaex.edu
(501) 671-2229

RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
LS18-292	Taking Your Farm to the Next Level: Business and financial planning for sustainable farms and ranches	\$47,000	Margo Hale NCAT
LS18-295	Increasing Farm Profitability Through Whole Farm Record-Keeping and Analysis	\$43,000	Steve Muntz Southern SAWG
LS17-282	High Tunnel Grape Production Systems: A Novel Sustainable Approach to Growing Grapes	\$266,986	Dr.M. Elena Garcia University of Arkansas Division of Agriculture
LS16-274	The Impact of Mineral Particle Film on Blackberry Diseases and Insects, and Primocane Fruit Quality and Yield	\$174,290	Sherri Sanders University of Arkansas CES
LS16-276	Validating Sustainability/Resilience and Quality of Life Indices to Identify Farm- and Community-Level Needs and Research and Education Opportunities	\$203,560	Dr.James Worstell Delta Land & Community
LS13-259	Participatory assessment of progress, barriers and opportunities for sustainability in Southern agricultural systems	\$100,000	Dr.James Worstell Delta Land & Community
LS12-250	Extending the Market Season with High Tunnel Technology for Organic Fruit Production	\$214,948	Dr.Curt Rom University of Arkansas
LS10-226	Integrating Free Range Poultry with Ruminant and Agroforestry Production in a Systems Approach	\$210,000	Dr.Anne Fanatico Appalachian State University

LS08-204	Sustainable control of gastro-intestinal nematodes in organic and grass-fed small ruminant production systems	\$230,000	Dr.Joan Burke USDA, Agricultural Research Service
LS05-176	Best management practices for organic orchard nutrition	\$200,000	Dr.Curt Rom University of Arkansas
LS04-167	The Southern Region Organic Fruit Production Initiative: Identifying Barriers, Needed Research, Markets, and Opportunities	\$15,555	Dr.Curt Rom University of Arkansas
LS04-160	Using Parasitoids in an Integrated Pest Management Approach to Control Flies on Dairy Farms	\$288,000	Kelly Loftin University of Arkansas CES
LS04-166	Increasing the effectiveness of assisting farmers with sustainable on-farm enterprise	\$15,860	Keith Richards Southern SAWG
LS03-145	Technical and Economic Analysis of the Potential for Conversion of Poultry and Swine Production Facilities to Greenhouses and Mushroom Houses	\$17,448	Michael Evans University of Arkansas
LS02-133	Rotational Grazing on Land Receiving Manure Applications; Impacts of Land Management Practices on Soil and Water Quality	\$195,972	Jeff Birkby National Center for Appropriate Technology (NCAT)
LS01-130	Building from excellent agents to effective organizers of collaborative, sustainable rural enterprise	\$19,990	Dr.James Worstell Delta Land & Community
LS00-113	Whole Farm Planning for Grass-fed Beef	\$214,069	Ann Wells National Center for Appropriate Technology
LS98-095	Intergenerational Education for Sustainable Agriculture	\$176,240	Savanah Williams Southern Sustainable Agriculture Working Group Keith Richards Southern SAWG
LS98-096	Integrating Farmer-driven, Value-added Enterprises Into Sustainable Agricultural Systems	\$120,590	Keith Richards Southern SAWG
LS96-076	Integration of Pastured Poultry Production Into the Farming Systems of Limited Resource Farmers	\$149,624	Skip Polson Heifer Project International
LS95-067	The Development of Pasture-Based Swine Production Systems for Limited Resource Farms in the Mississippi Delta	\$274,412	Bryant Stephens AK Land & Farm Development Corp.
LS94-061	Integrating Sustainable Forestry into Whole Farm Management of Minority	\$246,710	Erin Hughes Winrock International

and Limited Resource Landowners in Two Regions of Arkansas

LS92-049	Organic Soil Amendments of Agricultural By-Products for Vegetable Production Systems in the Mississippi Delta Region	\$140,000	Tina Gray Teague Arkansas State University, Agricultural Research
LS91-038	Developing and Extending Minimum Input Strategies for Weed Control in Agronomic and Horticultural Crops	\$100,000	Ford L. Baldwin University of Arkansas, Cooperative Extension
LS91-039	Use of Poultry Litter as a Soil Amendment in Southern Row Crop Agriculture: A Feasibility Study Based on Agronomic, Environmental, and Economic Factors (AS93-10)	\$300,000	David M. Miller University of Arkansas, Agronomy
LS91-040	Utilization of Winter Legume Cover Crops for Pest and Fertility Management in Cotton	\$304,000	Craig S. Rothrock University of Arkansas, Plant Pathology
LS90-023	A Mid-South Conference on LISA-Related Agroforestry Practices and Policies	\$18,000	D. Henderson Winrock International Institute for Agricultural Development
LS89-019	Development of a Plan for Implementing a Low-input Sustainable Forage Production System in the Oklahoma-Arkansas Ozark Highland Region and Similar Land Areas	\$15,000	Douglas Butts Soil Conservation Service
LS88-011.2	Developing and Extending Minimum Input Strategies for Weed Control in Agronomic and Horticultural Crops	\$100,000	Ford L. Baldwin University of Arkansas, Cooperative Extension
LS88-004	Planning Grant: Development of a Farmer/Extension/Research Network and Farming Systems Data Base for Low-Input Agriculture	\$15,000	Ted Jones University of Arkansas
LS88-011	Developing and Extending Minimum Input Strategies for Weed Control in Agronomic and Horticultural Crops	\$190,000	Ford L. Baldwin University of Arkansas, Cooperative Extension

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
ES17-135	Integrating Cover Crops into Vegetable Production: Extension educator training for Arkansas	\$72,493	Amanda McWhirt University of Arkansas Cooperative Extension
ES13-116	Increasing the Professional Technical Support for Local, Sustainable Food Distribution Systems in the Southern Region	\$79,776	Keith Richards Southern SAWG
ES13-118	Training and Tools for Assisting Small and Mid-Scale Producers of Horticulture Crops with Business Decisions	\$79,857	Steve Muntz Southern SAWG

ES08-089	Toolbox for Small Ruminant Educators: Building on the Small Ruminant Resource Manual	\$61,523	Linda Coffey National Center for Appropriate Technology (NCAT)
ES08-091	Organic Dairy Training Conferences and Educational Materials for Professionals	\$97,456	Dr.Wayne Kellogg University of Arkansas
ES07-088	Building Organic Agriculture Extension Training Capacity in the Southeast	\$195,000	Heather Friedrich University of Arkansas Dr.M. Elena Garcia University of Arkansas Division of Agriculture
ES04-076	Putting it all together: using livestock to manage natural resources	\$80,187	Teresa Mauerer NCAT
ES02-060	Enhancing Educator Knowledge of Sheep and Goat Production	\$49,998	Linda Coffey National Center for Appropriate Technology (NCAT)
ES00-051	Preparing Traditional Providers for Delivery of Sustainable Agriculture Information	\$8,976.05	Rex Doufour National Center for Appropriate Technology (NCAT)
ES99-044	Development of a Dairy Farm Sustainability Checksheet and Establishment of Distance Education Program for Training CES and NRCS Personnel to Work with Dairy Farmers	\$54,621	Ann Wells National Center for Appropriate Technology
ES98-038	Motivating Teams for Enterprise Facilitation	\$96,000	Dr.James Worstell Delta Land & Community
ES97-019	Nuisances in the Community: Training on the Issues and the Methods of Mediation	\$56,000	Jim Horne Kerr Center for Sustainable Agriculture Janie Simms Hipp National Center for Ag Law Research & Info, University of Arkansas
ES97-031	Development of Sustainability Checksheet, Manual and Workshops to Train Educators Planning Beef Programs	\$69,936	Ron Morrow NCAT/ATTRA
ES97-034	Multi-state Value-Added Team Building in the Northern Mississippi River Delta Region	\$20,000	Dr.James Worstell Delta Land & Community
LST96-013	Sustainable Agriculture Marketing through Collaborative Policy Development	\$40,900	Dr.James Worstell Delta Land & Community

FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
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FS06-207	Networking Sheep and Goat Producers: Strength in Numbers	\$10,000	Janice Neighbor
FS04-178	Farmers Working with Farmers to Establish Managed Grazing Systems	\$14,740	Frank Bostwick Grassroots Grazing Group
FS03-165	Economics of Plant Spacing on Tomato Yield and Quality	\$7,378	Paul E. Cooper 100 East First
FS02-160	Small Dairy Business Plan for On-Farm Mini-Processing Facility	\$9,980	Sam Ward
FS01-143	Biological Fly Control on Arkansas Dairies Utilizing Parasitoids	\$15,000	Floyd Wiedower Arkansas Dairy Cooperative Association
FS00-123	Cooperative Marketing of Organic Produce and Animal Products Direct to Consumers	\$15,000	Margaret Carey Organic Growers Assoc.
FS95-032	Native Pecan Orchard Management Using Best Management Practices	\$5,986	Bill Wilson
FS94-015	Farmer-to-Farmer Transfer of Knowledge About Rotational Grazing	\$9,988	Luane Schroeder

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
GS18-189	Exploring Cover Crops in an Integrated Approach to Reduce Disease Pressure and Increase Beneficial Insects in Watermelon Production	\$13,664	Dr. Jackie Lee University of Arkansas Cooperative Extension Service Paige Hickman
GS18-186	Development of Native Pollinator Habitat within Livestock Pasture	\$11,324	Neelendra Joshi University of Arkansas Roshani Sharma Acharya University of Arkansas
GS16-154	Kairomone-Based Control of Sesiid Borers in Peach Orchards	\$2,066	Dr. William Baltosser University of Arkansas at Little Rock Matthew Hetherington University of Arkansas at Little Rock
GS15-143	Pollinator Communities On Native Emergent Wetlands, Managed Emergent Wetlands, and Adjacent Croplands in the Lower Mississippi Alluvial Valley of Arkansas	\$11,000	Ashley Dowling University of Arkansas Phillip Stephenson University of Arkansas
GS14-136	Sustainable management of high tunnel	\$10,951	Dr. Curt Rom

	organic vegetable production with short-season winter cover crops		University of Arkansas Luke Freeman University of Arkansas
<u>GS13-122</u>	Improving lamb performance with sericea lespedeza and molybdenum	\$10,007	Dr.Charles Rosenkrans University of Arkansa Mohan Acharya University of Arkansas
<u>GS13-123</u>	Ground cover and organic nutrient management practices altering the denitrifier community in an organic apple orchard soil	\$11,000	Dr.Mary Savin University of Arkansas Jade Ford University of Arkansas
<u>GS11-106</u>	Evaluation of the Utility of Adding Artificial Bumble Bee Nesting Sites to Increase Pollination Services in a Small Farm Environment	\$9,000	Allen Szalanski University of Arkansas Amber Tripodi University of Arkansas
<u>GS09-084</u>	Microbial changes associated with use of brassica cover crops in a strawberry production system	\$9,971	Craig S. Rothrock University of Arkansas, Plant Pathology Dr.Terry Kirkpatrick University of Arkansas Mandy Cox University of Arkansas
<u>GS07-061</u>	Importance of Brassica soil amendments for managing soilborne disease in ornamentals and vegetables	\$9,944	Craig S. Rothrock University of Arkansas, Plant Pathology Kimberly Cochran University of Arkansas
<u>GS05-048</u>	The Effects of Different Organic Apple Production Systems on Seasonal Variation of Soil Properties and Foliar Nutrient Concentration	\$10,000	Dr.Curt Rom University of Arkansas
<u>GS04-033</u>	Impact of Potential Organic Pesticides and Potential Fruit Crop Load Regulators on Photosynthesis and Growth of Apple	\$10,000	Dr.Curt Rom University of Arkansas Jason D. McAfee University of Arkansas
<u>GS03-030</u>	Evaluation of Microbial Ecology in Pasture Ecosystems with Long-term Poultry Litter Additions	\$9,990	Dr.Mary Savin University of Arkansas Peter J. Tomlinson University of Arkansas - Fayetteville
<u>GS03-026</u>	Compatibility of Plant Defense Elicitors with Aphid- and Nematode-Resistant Tomato Varieties in Integrated Pest Management	\$10,034	William Cooper University of Arkansas Department of Entomology
<u>GS03-029</u>	Performance and Quality of Pasture-raised Poultry: Label Rouge – Type	\$9,940	Dr.Anne Fanatico Appalachian State University
<u>GS01-010</u>	Enhancing the Sustainability of Tall Fescue Forage Systems for Beef Cattle Production with Non-Toxic Endophyte Technology	\$10,000	Jane Parish Univ. of Arkansas Cooperative Extension Service

ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE support	Project Leaders
<u>OS18-116</u>	Cover Crop Effect on Nematode Activity in the Soil	\$15,000	Matthew Davis University of Arkansas Jackson County Extension Service
<u>OS13-073</u>	Investigation of Potential Biological Control Agents for Internal Parasite Control in Goats	\$14,930	Dr.Yong Park University of Arkansas
<u>OS13-077</u>	Establishment of native pollinator habitat in organic and conventional small ruminant pastures	\$15,000	Dr.Joan Burke USDA, Agricultural Research Service
<u>OS12-064</u>	An alternative organic strawberry production system grown vertically in high tunnels	\$15,000	Dr.M. Elena Garcia University of Arkansas Division of Agriculture
<u>OS09-045</u>	Identifying ewes resistant to gastrointestinal parasitic worms during gestation and lactation	\$14,866	Dr.Joan Burke USDA, Agricultural Research Service
<u>OS08-044</u>	The Use of Controlled Grazing, Chicory Pasture and Herbal Treatments to Prevent Parasitism in Sheep and Goats, Phase II	\$14,941	Dr.Ann Wells Heifer Ranch
<u>OS07-036</u>	Sensory Evaluation of Alternative Turkey Genotypes	\$14,962	Dr.Ann Fanatico Appalachian State University
<u>OS07-039</u>	The Use of Controlled Grazing and two Herbal Treatments to Prevent Parasitism in Sheep and Goats	\$14,967	Dr.Ann Wells Heifer Ranch
<u>OS06-028</u>	An alternative planting strategy for establishing clover in pastures	\$14,992	John Jennings University of Arkansas
<u>OS05-024</u>	Sustainable Grazing Systems for Arkansas: Native warm season grass establishment and control of cool season annual weeds	\$14,800	Ron Morrow USDA-NRCS
<u>OS03-016</u>	Use of Parasitoids and Passive Traps as Alternative Methods of Fly Control on Dairy Farms in Arkansas	\$15,000	Jodie A. Pennington University of Arkansas CES

SUSTAINABLE COMMUNITY INNOVATION GRANTS

Project #	Project Title	SARE support	Project Leaders
<u>CS12-089</u>	Next Steps: Creating a Sustainable Farm to School Program	\$10,000	Dana Smith Fayetteville Public Schools
<u>CS11-085</u>	Building a Model Farm to School Program using Community Partnerships	\$10,000	Dr.Curt Rom University of Arkansas

CS07-057	Integrating Nature into Agri-tourism	\$9,950	Kathy Radomski Phillips Community College UA
CS05-035	Assessing and Meeting the Growing Needs of Arkansas' Women in Agriculture	\$9,901	Dr.Jennie Popp University of Arkansas
CS03-014	Northwest Arkansas Local Food Initiative: Promoting All-Ozark Meals	\$9,978	Julia Sampson ATTRA

MATCHING GRANTS PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
MS09-004	Development of a Sustainable Agriculture Program for the University of Arkansas	\$15,000	Dr.Jennie Popp University of Arkansas

PDP STATE PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
SAR18-002	SAR18-002	\$11,111	Dr.Henry English University of Arkansas- Pine Bluff
SAR18-001	SAR18-001	\$44,444	Dr.M. Elena Garcia University of Arkansas Division of Agriculture
SAR17-001	SAR17-001 Model State Program	\$44,444	Dr.M. Elena Garcia University of Arkansas Division of Agriculture
SAR17-002	SAR17-002 Model State Program	\$11,111	Dr.Henry English University of Arkansas- Pine Bluff
SAR16-001	2016-2017 Model State Program University of Arkansas	\$11,111	Dr.M. Elena Garcia University of Arkansas Division of Agriculture
SAR16-002	2016-2017 Model State Program University of Arkansas at Pine Bluff	\$11,111	Dr.Henry English University of Arkansas- Pine Bluff
SAR15-002	2015 Model State Program	\$11,111	Dr.Henry English University of Arkansas- Pine Bluff

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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.

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