

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 \$309 million to more than 7,407 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.



www.sare.org

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

Kentucky

Project Highlight: *Training Ag Professionals on Sustainable Vegetable Production Methods*

Kentucky is home to numerous small, limited-resource farms. More than 75 percent of the state's 85,000 farms are smaller than 180 acres and 80 percent have an annual income under \$25,000, according to the USDA Census of Agriculture. Tobacco used to be an attractive option for these growers because it was highly profitable at small acreages compared to other crops, but that has changed with the elimination of price supports and marketing quotas.

Extension professionals at state universities in Kentucky and Tennessee are working to fill the void left by tobacco by increasing the acreage of sustainably farmed and certified organic vegetables. For this to happen, training in sustainable and organic vegetable farming for agricultural professionals who work closely with small-scale farmers is critical. With a SARE grant, a team led by the University of Kentucky collaboratively sponsored hands-on workshops, regional farm tours, training materials, videos and websites for farm educators.

The team trained 150 ag professionals and 150 growers. Prior to the training, many of the participants expressed their discomfort with organic vegetable production. Yet nearly 200 attended a field day heavily featuring organic production just a few years later, indicating a growing interest on their part.

For more information on this project, see sare.org/projects, and search for project number [ES10-101](#).

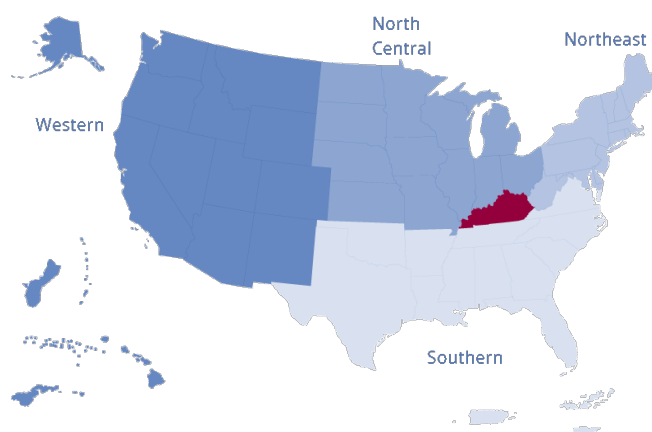
SARE in Kentucky

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

\$4,300,687
in total funding

83 grant projects
(since 1988)

For a complete list of grant projects state by state, go to www.sare.org/state-summaries



SARE Grants in Kentucky

Total awards: 83 grants



26 Farmer/Rancher
7 Graduate Student
13 On Farm Research/Partnership
22 Professional Development Program
15 Research and Education

Total funding: \$4,300,687



\$200,248 Farmer/Rancher
\$79,398 Graduate Student
\$166,906 On Farm Research/Partnership
\$1,457,026 Professional Development Program
\$2,397,109 Research and Education

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/kentucky

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/kentucky to learn more.

Marion Simon
Kentucky State University
(502) 597-6437
marion.simon@kysu.edu

Paul Vincelli
University of Kentucky
(859) 218-0722
pvincell@uky.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.



AGRICULTURE PROJECTS FUNDED IN KENTUCKY

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

Kentucky has been awarded \$4,358,999 grants to support 88 projects, including but not limited to, 14 research and/or education projects, 22 professional development projects and 26 producer-led projects. Kentucky has also received additional SARE support through multi-state projects.

RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE Support	Project Leaders
LS19-319	Development of Local Small Grain Value Chains for Kentucky and the Mid-South	\$232,669	Dr. David Van Sanford University of Kentucky
LS18-300	Extending Roots of Fresh Stop Markets Across the Southeast Region	\$267,972	Dr. Keiko Tanaka University of Kentucky
LS16-272	Cover Crops Under Cover: Evaluating Costs, Benefits, and Ecosystem Services of Cover Crops in Year-Round High Tunnel Production Systems	\$241,615	Krista Jacobsen University of Kentucky
LS14-265	Jump Starting New Pawpaw Variety Production for the Industry: Developing Grafting and Top Working Approaches for Growers	\$203,395	Kirk Pomper Kentucky State University
LS12-251	Mapping Sustainable Farm Systems: An Integrated Focus on Upper South New Producers as Catalysts of "Good Stewardship"	\$270,000	Dr. Keiko Tanaka University of Kentucky
LS06-185	Biofumigation for soil health in organic high tunnel and conventional field vegetable production systems	\$170,000	Dr. Michael Bomford Kentucky State University
LS03-151	Development of Organic Production Practices for Pawpaw on Selected Rootstocks	\$153,698	Kirk Pomper Kentucky State University
LS03-182	Review of SSARE-funded Soil and Water Quality Projects: 1988-2003	\$50,000	Victoria Mundy Bhavsar University of Kentucky Research Foundation
LS01-127	Organic Management of Cucumber Beetles in Cucurbits	\$134,038	John Sedlacek Kentucky State University Gary Cline Kentucky State University
LS99-104	Enhancing Farmers' Income through Polyculture of Paddlefish with Catfish in the Southern Region	\$140,135	Stephen D. Mims Kentucky State University
LS99-105	Enhancing Feasibility for Range Poultry Expansion	\$175,740	Steven Muntz Heifer International
LS99-098	Organic Vegetable Production for Limited Resource Farmers	\$19,100	Gary Cline Kentucky State University

LS97-089	Integration of Freshwater Prawn Nursery and Growout Systems Into Diversified Farm Systems	\$155,197	James H. Tidwell Kentucky State University
LS92-050	Participatory Assessment for Strategic Planning in Sustainable Agriculture Research and Education	\$183,550	James V. Worstell Community Farm Alliance

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE Support	Project Leaders
ES20-158	Helping Agricultural Professionals and Mentoring Farmers to Train Previously Unreached Farmers about Sustainable Agriculture	\$80,000	Cynthia Rice Kentucky State University Dr.Maheteme Gebremedhin Kentucky State University Dr.Buddhi Gyawali Kentucky State University Dr.Shawn Lucas Kentucky State University Dr.Marion Simon Kentucky State University Dr.Leigh Whittinghill Kentucky State University
ES19-148	Experiential High Tunnel Training for Cooperative Extension Service Agents in Kentucky	\$64,304	Dr.Rachel Rudolph University of Kentucky
ES17-133	Ecological Livestock Production: Integration of nutrient cycling, pasture management, winter feeding, and watering systems	\$79,064	Greg Halich University of Kentucky
ES16-130	Training Extension agents in Kentucky and Oklahoma on the Food Safety Modernization Act and food safety, sanitation, and good hygiene practices related to products for sale at farmers market	\$78,166	Paul Priyesh Vijayakumar University of Kentucky
ES10-101	Developing a Training Program in Sustainable Vegetable Production for Agricultural Professionals in Kentucky and Tennessee	\$59,532	Dr.Timothy Coolong University of Kentucky
ES07-087	Kentucky Sheep and Goat Herder Curriculum - Phase I	\$90,000	Ricky Yeargan University of Kentucky Cooperative Extension Service
ES05-080	Small-Scale Poultry Production: Sustainability Training	\$129,530	Steven Muntz Heifer International
ES05-081	Regional Meat Goat Production and Marketing Project: Phase 2	\$9,578	Dr.Marion Simon Kentucky State University
ES05-082	Regional Meat Goat Production and Marketing Project: Phase 2	\$20,000	Dr.Marion Simon Kentucky State University
ES04-074	Enhancing Alternative Niche Market & Retail Opportunities for Agricultural Products	\$47,127	Betty King University of Kentucky
ES04-075	Regional Goat Production and Marketing Project	\$84,550	Dr.Marion Simon Kentucky State University
ES04-072	The Value-added Microprocessor Project	\$94,228	Sandra Bastin University of Kentucky

ES03-070	Barriers and Opportunities for Adding Value to Small Ruminant Animals	\$44,490	Betty King University of Kentucky
ES02-063	Adding Value with Small-Scale Fruit and Vegetable Processing	\$41,965	Betty King University of Kentucky
ES01-052	“The Third Tuesday-Thursday Thing”: Building on Kentucky’s Experiences and Expanding the Sustainable Agriculture Educational Model into Tennessee	\$50,000	Dr.Marion Simon Kentucky State University
ES00-048	Training in Size Appropriate Technology for Hill Farmers	\$84,686	Betty King University of Kentucky
ES00-049	Nutrient Management Plans as Tools to Achieve Sustainable Animal Waste Utilization	\$83,056	Stephen Coleman Kentucky Division of Conservation
ES97-026	Community Food Security and Marketing Capacity Development in Kentucky	\$79,970	Karen Armstrong-Cummings Commodity Growers Cooperative
ES97-028	Grass-roots Empowerment in Kentucky’s Local Conservation Districts: Leadership Training on Sustainable Land and Water Quality Management Practices	\$86,280	Stephen Coleman Kentucky Division of Conservation
ES97-032	Responding to Expressed Needs: SARE/ACE Regional Training with the Sustainable Dairy Systems Manual and Software	\$48,500	Dr.Clark Garland University of Tennessee Steve Isaacs University of Kentucky
ES97-015	Kentucky Cooperative Extension System Training Project	\$50,000	Dr.Marion Simon Kentucky State University
LST96-011	Southern Gathering on Agricultural Problem Solving	\$52,000	Ronald J. Hustedde University of Kentucky

FARMER/RANCHER GRANTS

Project #	Project Title	SARE Support	Project Leaders
FS19-318	Using Maple Sugarbush Management Practices to Increase Walnut Syrup Production	\$3,410	Mark Justin Moore Cedar Hill Homestead
FS18-311	Evaluating Sweet Sorghum and Poultry Alley Cropping in Agroforestry as an Economical and Sustainable Alternative to Tobacco Crops	\$9,436	Matthew Wilson Rindlewood Farm
FS17-301	Using Lotus as an Alternative Crop to Generate Farm Income	\$9,696	Cheryl Pan Cheryl's Farm
FS14-279	A comparison of organic no-till and traditional tillage/cultivation systems on a small-scale vegetable farm	\$2,344	Maggie Bowling River Bend Farm
FS12-258	Soil Analysis Directed Ground Cover Approaches to Excessive Canopy and Weed Control in Southern Vineyards	\$7,007	Dr.David Hall Eddy Grove Vineyard, Inc
FS06-204	Developing Dual Purpose Quail for Small Farmers	\$7,600	Martin H. Meers Black Forest Poultry Farm

FS04-182	Control of Internal Parasites in Goats with Rotational Grazing of Sericea Lespedeza	\$7,289	Wayne Kirby
FS03-168	Kentucky Coordinated Poultry Alliances	\$7,086	Matthew D. John Shady Lane Poultry Farm, Inc.
FS02-148	Market Enhancement and Outreach Project	\$12,800	Janet Eaton Farm & Garden Market Cooperative Association
FS01-144	Opti-Maizing Beef Cattle Profits and Environmental Quality	\$12,716	Beth Wilson Pulaski County Ag. Advancement Council
FS01-130	Improving Salad Mix Quality and Yield Through Soil Management and Post Harvest Techniques	\$9,600	Carol Cassedy C/O Whitestone Organic Farm
FS01-137	Marketing Edamame Soybeans in Kentucky	\$9,133	Sara McNulty Wildwood Acres
FS01-141	Pastured poultry production	\$7,003	Mac Stone
FS00-109	Marketing Timber After Adding Value Through the Use of One-Person Sawmills and Solar Kilns	\$10,000	Michael Best
FS00-126	Locally Produced Chicks for Use in Pastured Poultry System	\$9,869	Laura Rogers
FS99-084	Utilization of Wood Waste and Agricultural By-products in High-value Gourmet Mushroom Production	\$9,507	Gary Anderson
FS99-100	Alternative Pollinators	\$3,475	Roger Smith
FS98-066	Adding Value to Kentucky Grown Produce Through Season Extension and Market Development	\$8,670	Ann Bell Elmwood Stock Farm
FS97-046	Sustainability Starts at Home-Building Regional Self Reliance through Agritourism	\$9,580	Karen Armstrong-Cummings Commodity Growers Cooperative
FS97-055	Overwintering Survival of Kentucky Honeybees	\$5,283	Mark Q. Lee
FS97-056	Managed Grazing System to Increase Sustainability	\$2,630	Evan McCord Madison County Beef Cattle Association
FS97-062	Maximizing Corn Production in the Mountains of Southeast Kentucky	\$4,955	David Teague Henderson Settlement
FS96-039	Group Strategic Alliances for Carroll County Feeder Calves	\$10,000	Tim Hendrick Kentucky Cooperative Extension Service
FS96-040	Technical Assistance for Meat Goat Marketing	\$8,900	Neil Hoffman Eastern Kentucky Goat Producers Association

FS95-031	Improving Quality of Slaughter Hogs as a Marketing Strategy for Small Producers	\$9,150	Judy Williams Bluegrass Pork Producers
FS94-017	Shrimp Polyculture in Existing Farms	\$3,109	Mark & Carolyn Straw Straw Ridge Farm

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE Support	Project Leaders
GS19-213	Investigating the Effects of Grass-legume Winter Cover Crop Mixtures on Soil Nitrogen Supply in Rolling Agricultural Landscapes	\$16,447	Hannah Poffenbarger Sam Leuthold
GS18-183	Improving Sustainable Weed Management in Soybean Agroecosystems Through Cover Cropping	\$16,490	Erin Haramoto University of Kentucky Ryan Collins
GS13-125	Economic Analysis of Commercial Aquaponic Production Systems	\$9,975	Dr. Timothy Woods University of Kentucky Kevin Heidemann University of Kentucky
GS08-065	Effects of organic amendments on aggregation and microbial community dynamics in soils	\$10,000	Elisa D'Angelo University of Kentucky Mark Williams University of Kentucky Shawn Lucas University of Kentucky - Dept. of Plant and Soil Sciences
GS08-072	Sustainable Management for Scarab Pests Impacting Grape Production in the Southern Region	\$9,750	Dr. Daniel Potter Dept. of Entomology Dr. Derrick Hammons University of Kentucky
GS02-014	Streambank Erosion Associated with Grazing Activities in Kentucky	\$9,836	Dwayne Edwards University of Kentucky Carmen Agouridis University of Kentucky
GS00-003	Resilience of Nitrogen Availability and Retention in Soils of Kentucky Certified Organic Farms	\$6,900	Mark Coyne University of Kentucky Victoria Bhavsar University of Kentucky

ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE Support	Project Leaders
OS19-130	Integration of Predator Releases with Insecticidal Soap Sprays for Management of the Sugarcane Aphid	\$14,913	Jonathan Larson University of Kentucky
OS19-127	Bale Grazing: On-farm evaluation in the upper South	\$12,252	Greg Halich University of Kentucky
OS16-097	Brassicaceous Cover Crops to Reduce Root Knot Nematode and Improve Soil Quality in Protected Tomato Production Systems	\$14,990	Emily Pfeufer University of Kentucky
OS16-099	Alternative Substrate for Soilless Production of Vegetables	\$12,834	Dr. John Snyder University of Kentucky
OS14-092	A New Appropriate Technology Machine System to Benefit the Sustainability of Local Organic Vegetable Production	\$14,906	Dr. John Wilhoit University of Kentucky

OS13-070	Clinical Mastitis Incidence in Compost Bedded Pack Barns as Compared to Freestall Barns	\$13,750	Dr. Jeffrey Bewley University of Kentucky
OS13-076	Elucidating the Spread and Transmissibility of Blueberry Mosaic Virus, a New Disease of Blueberry in the Southeastern U.S.	\$15,000	Dr. Nicole Ward Gauthier University of Kentucky
OS09-047	Sweetpotatoes: A profitable crop for small farms in rural Eastern Kentucky	\$14,791	Dr. Timothy Coolong University of Kentucky Sarah Fannin University of Kentucky Cooperative Extension
OS04-019	Production Costs and Techniques for Blueberry Establishment in Eastern Kentucky	\$3,764	Matt Ernst University of KY
OS03-008	Limiting Grazing Cattle Access to Ponds to Improve Water Quality, and water and Feed Intake	\$14,945	Stephen Workman University of Kentucky
OS03-009	Year Round Beef Cattle Grazing Strategy to Eliminate or Reduce the Use of Stored Feeds	\$15,000	David Ditsch
OS03-011	Goat Friendly Pastures	\$14,975	Terry Hutchens Univ of Kentucky & Kentucky State Univ
OS03-014	Kentucky Blueberry Market Development	\$4,786	Dr. Timothy Woods University of Kentucky

SUSTAINABLE COMMUNITY INNOVATION GRANTS

Project #	Project Title	SARE Support	Project Leaders
CS09-069	New opportunities on the Farm - Community and Farm Revitalization in Five Eastern Kentucky Counties	\$10,000	Gayle Clevenger East Kentucky Foothills Eco-Agritourism, Corp
CS07-052	Growing healthy markets: healthy farms, healthy food project	\$10,000	Donald Van Erden Community Farm Alliance Elizabeth Ledford Community Farm Alliance
CS04-020	Women Taking the Lead for Kentucky Agriculture	\$9,900	Gae Broadwater Kentucky Women in Agriculture, Inc.
CS04-025	Aquaculture Development in the Pine Mountain Region of Southeast Kentucky	\$10,000	Paul Pratt Southeast Community College
CS03-013	Expanding Community-Based Retail Opportunities for Agricultural Products Through the Woodford County Farmers' Market Association	\$9,700	Betty King University of Kentucky
CS02-006	Keen on Beans: Establishing Edamame Awareness and Demand for Kentucky Consumers and Growers	\$8,712	Martha Lee U of KY Cooperative Extension Service-- Daviness Co.

**Total funding from the USDA SARE program to
Kentucky
\$4,358,999**



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).