



AGRICULTURE PROJECTS FUNDED IN MARYLAND

by USDA's
Sustainable Agriculture Research and Education (SARE) Program
1988-2016

Maryland has been awarded \$4,124,274 to support 107 projects, including but not limited to, 29 research and/or education projects, 7 professional development projects and 42 producer-led projects. Maryland has also received additional SARE support through multi-state projects.

State Sustainable Agriculture Coordinator(s):

Berran Rogers
Maryland Cooperative Extension
blrogers@umes.edu
(410) 651-6693

Nevin Dawson
University of Maryland Extension
ndawson@umd.edu
(410) 479-4030 Ext: 5

RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
LNE15-341	Quantifying and demonstrating scrubbing H ₂ S from farm-based anaerobic digestion systems	\$216,879	Stephanie Lansing University of Maryland
LNE14-338	Deep soil nitrogen: A resource for sustainability in the mid-Atlantic using early cover crops	\$249,576	Dr. Raymond Weil University of Maryland Sarah Hirsh University of Maryland
LNE11-312	No-till, No-herbicide Planting of Spring Vegetables Using Low Residue Winter Killed Cover Crops	\$154,405	Dr. Raymond Weil University of Maryland Natalie Lounsbury University of Maryland
LNE08-274	Cover Crops for Sustainable Pest Management and Soil Quality in Production Nurseries	\$175,920	Dr. Paula Shrewsbury University of Maryland
LNE06-241	An integrated approach to developing a day neutral strawberry production industry	\$88,700	Willie Lantz University of Maryland Extension
LNE05-232	High tannin grain sorghum as a possible natural anthelmintic for sheep and goats	\$100,000	Niki Whitley UMES - Maryland Cooperative Extension
LNE05-224	Increasing economic and environmental sustainability of aquaculture production systems through aquatic plant culture	\$159,309	Andrew Lazur University of Maryland Ctr. for Environmental Sci.
LNE04-213	Environmental and Economic Effects of Management-Intensive Grazing on Dairy Farms - Phase II	\$16,963	Dr. Raymond Weil University of Maryland
LNE04-211	Mid-Atlantic Sheep & Goat Marketing Project	\$31,000	Susan Schoenian Maryland Cooperative Extension

LNE04-201	Optimizing Environmental Benefits From Riparian Buffers in Maryland	\$123,977	Galen P. Dively Department of Entomology
LNE04-206	Season Extension and Cultivar Evaluations for Increasing Farmer Profitability Using High Tunnels in the Baltimore/Washington Metropolitan Marketing Area	\$94,650	Mark Davis Future Harvest-CASA
LNE03-192	Multipurpose Brassica cover crops for sustaining Northeast farmers	\$158,570	Dr.Raymond Weil University of Maryland
LNE03-180	Optimization of cover crop strategies for pumpkin production in the mid-Atlantic	\$99,613	Caragh Fitzgerald Maryland Cooperative Extension Kathryne Everts University of Delaware, Dept. of Plant and Soil
LNE03-190	Small Ruminant Integrated Parasite Management (IPM)	\$49,830	Susan Schoenian Maryland Cooperative Extension
LNE03-193	Sustainable pasture lamb production	\$147,495	Niki Whitley UMES - Maryland Cooperative Extension
LNE02-167	Enhancement, Implementation & Evaluation of Biologically Based Pest Management Tactic for Three Key Pests in Production Nurseries	\$138,636	Dr.Paula Shrewsbury University of Maryland
LNE01-152	Environmental & Economic Impacts of Management-Intensive Grazing on Dairy Farms	\$131,795	Dr.Raymond Weil University of Maryland
LNE01-145	Improving Sustainable Enterprise Selection & Marketing Skills through Business Skills Training	\$4,230	Ginger Myers Howard County Economic Development Authority
LNE00-131	Development and Evaluation of Management Alternatives for Root Knot Nematodes and Volunteer Potatoes	\$128,900	Kathryne Everts University of Delaware, Dept. of Plant and Soil
LNE00-140	Microdairy: Creating a Profitable Five-Cow Dairy	\$168,590	Frank Kipe Old Springhouse Farm
LNE97-084	Design and Implementation of a Searchable Database on Compost Production and Use for Internet Users	\$20,000	Patricia D. Millner USDA-ARS
LNE96-069	Soil Test for Active Organic Matter: A Tool to Help Assess Soil Quality	\$100,000	Dr.Raymond Weil University of Maryland
LNE95-055	Control of Gastrointestinal Nematodes in Dairy Cattle Under Intensive Rotational Grazing Management	\$45,000	Louis Gasbarre USDA-ARS
LNE95-052	Fescue Endophyte Research Study	\$9,632	Craig Hartsock Allegheny Soil Conservation District
LNE95-062	Managing Dairy Waste Using	\$110,305	Leslie Cooperband

Constructed Wetlands & Composting

University of Maryland

LNE95-061	Resource Conservation & Environmental Stewardship in the "Maryland Ag in the Classroom" Curriculum Guide	\$70,000	Richard R. Leader Chesapeake Audubon Society/Pickering Creek Environmental Center
LNE91-027	An Integrated Response to Pollination-Related Problems Resulting from Parasitic Honey-Bee Mites, the Africanized Honey Bee, and honey-bee pathogens	\$100,000	Nicholas Calderone ARS Bee Research Laboratory
LNE89-013	Winter Cover Crops for Corn Production in the Northeast: N Balance and Soil Moisture Status	\$105,000	Morris A. Decker University of Maryland
LNE88-003	Role of Cereal Grain Cover Crops in Nitrogen Management for the Chesapeake Bay Region	\$150,000	Russell Brinfield University of Maryland

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
ENE16-144	The Northeast Cover Crops Council: Building the network and online decision support tools	\$144,859	Katherine Tully University of Maryland
ENE98-046	Conducting On-Farm Research: Enabling Farmers to Implement Sustainable Change in Agriculture	\$50,000	Kathryne Everts University of Delaware, Dept. of Plant and Soil
ENE98-044	Locally Led Farmer Groups for Sustainable Agriculture: The Study Circle Approach	\$6,500	Jim Hanson Department of Ag Resource Economics
ENE98-038	Organic Grain Production Another Way	\$90,100	John Hall University of Maryland
ENE97-033	Riparian Buffer Training (Enhancement, Installation, and Management of Riparian Buffer Systems)	\$20,500	Robert Tjaden Univ. of MD Cooperative Ext. Service
ENE96-024	Training, Networking and Demonstrating Whole Farm Forage Grazing Systems	\$60,000	Elmer M. Dengler USDA -- NRCS
ENE96-022	Video Training on Improving Water Quality Featuring Farmers and Their Practices in the German Branch Watershed	\$24,351	Jim Hanson Department of Ag Resource Economics

FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
FNE16-843	Methods for improving quality and conditions of ground cherry production--part II	\$5,652	Lisa Garfield Calliope Farm
FNE15-832	Exploring dryland rice production in the mid-Atlantic	\$11,405	Heinz Thomet Next Step Produce
FNE15-828	Methods for improving quality and conditions of ground cherry production	\$6,889	Lisa Garfield Calliope Farm

FNE14-803	Effectiveness of Aerated Static Pile to Windrow Composting on Small-Scale Farms	\$6,237	Emma Jagoz Moon Valley Farm
FNE13-789	Exploring low-tech food dehydration to increase profits on small farms	\$14,915	Tanya Tolchin Jug Bay Market Garden
FNE12-768	Water Hyacinth Project	\$8,687	Larry Ward Ward Farms
FNE10-682	Big Flip Floats for Commercial Oyster Aquaculture	\$11,384	Christine Power Great Eastern Shellfish Company David Chamberlain Great Eastern Shellfish Company, LLC
FNE10-693	Economical Climate Control for extended Production in High Tunnel Vertical Growing Systems	\$7,651	Allen Lilly Ryan's Glade Farm
FNE08-630	Increasing profitability: Building consumer preference for chevon through education and outreach	\$10,000	Jeanne Dietz-Band Many Rocks Farm
FNE08-647	Propagating day-neutral strawberry plugs for fall planting	\$3,395	Jim Strawser Brook View Farm
FNE08-631	Testing Two Selection Assays' Efficacy for Varroa-mite-tolerant Bee Production	\$4,347	Adam Finkelstein VP Queen Bees
FNE07-620	Assess and quantify the benefit of alternative and renewable energy for greenhouse operations	\$8,800	John Shepley Emory Knoll Farms, Inc.
FNE06-594	Sustainable livestock farming: A promotional video and teaching tool	\$5,770	Robin Way Rumbleway Farm
FNE05-546	Using ultrasound scanning and performance testing technology to increase loin eye area in lamb	\$5,785	John Hall Hall Suffolks
FNE04-517	Enhancing the Maryland Nursery Industry's Ability to Improve Water Quality and Increase Profit	\$9,900	Leslie Hunter-Cario Environmental Concern, Inc.
FNE04-532	Verifying New Sustainable Methods for Small Ruminant Parasite Control	\$3,300	Karen Taylor
FNE03-477	Farrow to Finish Premium Pastured Pork	\$1,555	Errol Mattox
FNE03-492	Raising Goats on Pasture Alone or with Grain Supplementation	\$2,907	Kurt Schuster
FNE03-497	Sustainable Methods for Small Ruminant Parasite Control	\$1,892	Karen Taylor

FNE02-447	Determination of Omega-3 Fatty Acid in Pastured Raised Meat Rabbits	\$5,937	Robin Way Rumbleway Farm
FNE02-424	Effect of Straw, Leguminous and Non-Leguminous Cover Crops on Productivity and Weed Suppression in Organically Managed Asparagus Beds	\$864	Michael Klein
FNE02-427	Indoor Raspberry Production	\$7,633	Wayne Lockwood
FNE02-426	Production of Strawberries in November and December	\$9,927	David Lankford
FNE02-402	Use of Corn Gluten Meal to Reduce Weeds in Beet Fields	\$2,356	David Barylski
FNE01-382	Effect of Wood Chip Mulch, Leguminous & Non-Leguminous Cover Crops on Productivity & Weed Suppression in Organically Managed Asparagus Beds	\$3,583	Michael Klein
FNE01-376	Maximizing Nitrogen & Phosphorus Efficiency in a Managed-Intensive-Grazing Dairy	\$4,481	Judy Gifford St. Brigid's Farm
FNE00-296	On-site demonstration for replacing broadcast herbicides with cultivation and banded herbicides in corn.	\$5,426	Roy Crow
FNE00-311	The use of the predacious Phytoseiid mite, Amblyseius cucumeris, and the entomopathogenic fungus, Beauveria bassiana, for control of western flower thrips in commercial bedding plant production.	\$2,874	Gary Magnum
FNE00-305	Wine grape production in Harford County: the use of canines as a deterrent to deer damage.	\$822	Robert Halman Ole 9 Vineyard
FNE99-267	Amending Soils to Produce Blueberries in Maryland	\$1,523	Guy & Lynn Moore
FNE99-257	Dairying in Harford County, Maryland: Transition to Intensive Grazing	\$6,050	David Keyes
FNE99-269	Evaluating a No-till Transplanter for Organic Vegetable Production	\$3,072	Drew Norman
FNE99-287	Ginseng Dead-Heading: Determining the Effects of Removing Seed-Producing Flowers from Woods-Grown Ginseng	\$2,363	Steve & Karen Galloway
FNE99-268	Improving Protein Utilization in Grazing Dairy Cows by Supplementing the Diet with Liquid Molasses	\$4,175	Ginger Myers

FNE99-265	Mulching with Black Plastic Drainage Pipe	\$2,390	Lawrence MacDonald
FNE99-263	No-till Transplanted Watermelons in Rye Cover Crop	\$5,308	Mike Malone
FNE99-278	Warm-Season Grass Demonstration for Dairy Farms	\$2,520	Harry Strite
FNE98-202	Evaluating Raised Beds and Various Mulches for Vegetable Production	\$3,120	Ed Armacost
FNE97-187	Mixed Field Forage	\$2,230	Darryl Walker
FNE96-148	Improving Aquaculture Productivity & Safety with Dockside Elevator Systems	\$3,869	Richard Pelz
FNE95-104	Season Extension Through Annual Organic Strawberry Production & Fall Vegetable Production	\$4,705	Eric Rice
FNE93-012	Bio-Control of Corn Earworm and European Corn Borer in Sweet Corn	\$1,510	Nicholas C. Maravell Nick's Organic Farm

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
GNE16-116	Evaluations of economic benefits and long-term sustainability of neonicotinoid seed treatment use in the mid-Atlantic	\$14,978	Aditi Dubey University of Maryland College Park
GNE15-104	Cold tolerance of the invasive kudzu bug and its potential impact on soybean production in the Northeast	\$14,423	Jessica Grant University of Maryland
GNE15-096	Evaluating the effects of green manure and biofertilizers on pak choi yield, minerals, and phytonutrient contents	\$14,994	Nadine Burton University of Maryland Eastern Shore
GNE15-106	On-farm and isotopic evaluation of deep soil nitrogen capture and cycling by cover crop mixtures	\$14,945	Sarah Hirsh University of Maryland
GNE15-099	The effect of cover crops on the abundance and survival of beneficial stink bugs	\$11,916	Peter Coffey University of Maryland
GNE14-089	Reduction of environmental risks and improving livestock productivity in Mixed Crop-Livestock Systems with cheap byproducts of berry fruits	\$14,983	Serajus Salaheen University of Maryland-College Park
GNE12-032	Quantification and persistence of ionophore antimicrobials associated with poultry litter	\$14,754	Saptashati Biswas University of Maryland
GNE12-047	Spatial pattern of infestation risk and	\$14,956	Dilip Venugopal

management of the invasive brown marmorated stink bug in soybeans Dept. of Entomology, Univ. of Maryland

[GNE11-025](#) Cover crop selection and manure placement for weed suppression and nitrogen use efficiency in a no-till organic corn system \$14,986 Hanna Poffenberger
University of Maryland

[GNE11-030](#) Developing Inoculum to Increase Anaerobic Digestion Efficiency in Winter Months \$14,974 Freddy Witarsa
University of Maryland
Stephanie Lansing
University of Maryland

ON-FARM RESEARCH/PARTNER GRANTS

Project #	Project Title	SARE support	Project Leaders
ONE16-269	A Maryland cheesemakers guild: Supporting producers, connecting with consumers	\$14,435	Ginger Myers University of Maryland Extension
ONE16-282c	Changing the mindset of Maryland cover crop farmers through delayed spring burn-down	\$11,102	Nevin Dawson University of Maryland Extension
ONE16-266	Increasing profitability of tomato production in high tunnels	\$14,800	Willie Lantz University of Maryland Extension
ONE15-251	Priming for production: A podcast on soil health	\$14,818	Natalie Lounsbury University of Maryland Dr. Raymond Weil University of Maryland
ONE14-216	Am I making a profit? Using calculators to develop profitable prices for farm-raised meats	\$13,452	Ginger Myers University of Maryland Extension
ONE12-167	Launching a Maryland small farms poultry processing and marketing group	\$14,760	Ginger Myers University of Maryland Extension
ONE12-163	Sustainable management tools for the redheaded flea beetle in nurseries	\$14,999	Brian Kunkel University of Delaware
ONE09-104	Developing a Cost Effective, Energy Efficient Greenhouse Using Solar Heating to Extend the Growing Season	\$6,960	Willie Lantz University of Maryland Extension
ONE08-086	Organic Dried Bean Production in Mid-Atlantic	\$7,395	Laura Hunsberger University of Maryland Cooperative Extension
ONE06-060	Short cycling as an approach to successful organic strawberry production	\$4,654	Willie Lantz University of Maryland Extension
ONE05-045	Promoting Pollinators on Maryland's Working Landscapes	\$9,535	Annette Meredith University of Maryland
ONE03-015	Double-crop forage systems for dairy farms	\$9,970	Don Schwartz Maryland Cooperative Extension

COMMUNITY INNOVATION GRANTS

Project #	Project Title	SARE support	Project Leaders
CNE12-096	Baltimore City Urban Agriculture Alliance	\$14,530	Maya Kosok Civic Works
CNE11-090	Producer Inventory Management for Fresh Fruit and Vegetable Sales to Retail Outlets	\$15,000	Willie Lantz University of Maryland Extension
CNE10-077	Stimulating Maryland Agricultural Entrepreneurship through Curbside Roundtables and Individual Planning	\$12,008	Ginger Myers University of Maryland Extension
CNE09-063	Mid-Atlantic Small Black Farmers Food Distribution Project	\$21,395	Berran Rogers Maryland Cooperative Extension Program Gladys McMichael Help Ourselves Project, Inc.
CNE08-047	Expanding and strengthening a network of farmers to support a local foodshed	\$5,660	Laura Hunsberger University of Maryland Cooperative Extension
CNE08-056	Leveraging community financing for farm and farmland protection	\$10,000	Dr.Lynda Brushett Cooperative Development I Michael Speltz Society for Protection of

YOUTH GRANTS

Project #	Project Title	SARE support	Project Leaders
YNC09-031	Hunting for Farmers	\$398.03	Chandler Trout

**Total funding from the USDA SARE program to
Maryland
\$4,124,274**



For further information on projects, contact Helen Husher, Northeast SARE communications specialist, at (802) 656-7923 or helen.husher@uvm.edu.

Sustainable Agriculture Research and Education (SARE) is funded by USDA's National Institute of Food and Agriculture (NIFA).