



AGRICULTURE PROJECTS FUNDED IN PENNSYLVANIA

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

Pennsylvania has been awarded \$11,701,249 to support 264 projects, including but not limited to, 56 research and/or education projects, 26 professional development projects and 97 producer-led projects. Pennsylvania has also received additional SARE support through multi-state projects.

State Sustainable Agriculture Coordinator(s):

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RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
LNE16-354	Advanced sustainable cropping systems for dairy farms in the Northeast	\$400,000	Dr.Heather Karsten The Pennsylvania State University
LNE16-349	Development of resources for small raw-milk cheesemakers to conduct science-based risk assessments	\$131,271	Dr.Kerry Kaylegian Penn State University
LNE16-352	Forage brassicas to mitigate methane emissions and increase economic sustainability of forage-based dairy systems	\$192,009	Dr.Kathy Soder USDA-ARS
LNE14-331	Getting the most out of cover crops: How timing of termination influences soil health, pest control, and improved crop production	\$222,694	Dr.Heather Karsten The Pennsylvania State University
LNE14-330	Reducing parasite resistance on equine operations using a comprehensive, whole-farm approach	\$146,873	Dr.Ann Swinker Penn State University Donna Foulk Penn State Extension
LNE13-329	Sustainable cropping systems for dairy farmers in the Northeast, II	\$400,000	Dr.Heather Karsten The Pennsylvania State University
LNE12-321	Education and decision support strategy for farm-level economic and environmental assessment of dairy Best Management Practices	\$162,327	Dr.R Weaver Penn State Univ
LNE12-320	Using cultivar mixtures to improve pest control and grain crop production	\$164,919	Dr.John Tooker Penn State
LNE10-303	Development and implementation of an equine environmental stewardship program	\$135,000	Dr.Ann Swinker Penn State University

LNE10-295	Reducing plastic mulch use by expanding adoption of cover-crop-based no-till systems for vegetable producers	\$144,962	Stacy Glackin Rodale Institute Alison Grantham Rodale Institute Sandra Wayman Rodale Institute
LNE09-286	Improving the efficiency of nitrogen use and reducing ammonia emissions from Pennsylvania dairies	\$179,940	Dr.Alexander Hristov Pennsylvania State University
LNE09-288	Non-chemical control of wood boring insects affecting apple and peach	\$103,022	Dr.Greg Krawczyk PSU, Department of Entomology, FREC
LNE09-291	Sustainable cropping systems for dairy farms in the Northeastern US	\$400,000	Dr.Heather Karsten The Pennsylvania State University
LNE08-268	Increasing Cropping System Sustainability through the Adoption of Cover Crop and Rotational No-Till Strategies	\$144,815	Rita Seidel Rodale Institute
LNE08-276	On-Farm Training and Participatory Learning: Biologically-based IPM an sustainable Farming Practices for Amish and Mennonite Vegetable Growers	\$143,991	Cathy Thomas Pennsylvania Department of Agriculture Wade Esbenshade PA Dept. of Ag
LNE07-258	Empowering dairy farmers to build a cottage industry	\$116,901	Allison Shauger Pennsylvania Association for Sustainable Agricultu Rebecca Robertson Pennsylvania Assn for Sustainable Agriculture
LNE07-251	Enhancing cut flower production and marketing for produce growers: Methods of diversification into proven niches, part II	\$85,900	Steve Bogash Penn State Cooperative Extension
LNE06-236	Adoption of grass-fed beef management practices	\$58,594	Dr.John Comerford Penn state University
LNE06-239	Diversifying with Small Ruminants for Profitability	\$85,340	Allison Shauger Pennsylvania Association for Sustainable Agricultu
LNE06-244	Integrated cover crop innovations for biologically based no-till	\$118,310	Stacy Glackin Rodale Institute Jeff Moyer The Rodale Institute
LNE06-248	Pennsylvania Regional Organic Fruit Industry Transition	\$99,208	Dr.Greg Krawczyk PSU, Department of Entomology, FREC James Travis Penn State University Fruit Research and Extension
LNE06-247	Teaching farmers to make biodiesel fuel from waste vegetable oil	\$46,476	Matt Steiman Wilson College
LNE05-219	Farm to chef: Increasing farmer and chef capacity for marketing and purchasing agricultural products in western Pennsylvania	\$96,571	David Eson PA Association for Sustainable Agriculture

LNE05-234	Focus on organic dairy: An integrated program for Pennsylvania producers	\$149,277	Leslie Zuck Pennsylvania Certified Organic
LNE05-227	In search of sustainable Botrytis management: An extension and research effort	\$87,374	Elsa Sanchez Penn State University
LNE05-216	Using cover crops and crop diversity to optimize ecologically based weed management	\$98,732	William Curran Penn State University
LNE05-226	WAgN: Sustainable ag network by and for women producers	\$138,292	Carolyn Sachs Pennsylvania State University
LNE04-195	Enhancing Cut Flower Production and Marketing for Produce Growers: Methods of Diversification Into Proven Niches	\$73,241	Steve Bogash Penn State Cooperative Extension
LNE04-209	Pennsylvania Food Education to Increase Consumption of Locally Grown Food	\$61,863	Karima Rose The Food Trust
LNE04-196	Sustaining Northeast Farms for Future Generations	\$148,500	Marion Bowlan Pennsylvania Farm Link
LNE04-212	Winter Harvest: Teaching a successful local food model from urban Philadelphia	\$35,756	Brian Snyder Pennsylvania Assoc. for Sustainable Agriculture
LNE03-181	Compost Tea for Disease Management in Horticultural Crops	\$147,956	Paul Hepperly The Rodale Institute
LNE03-176	Greenhouse IPM for the Amish and Mennonite community of Lancaster County	\$56,890	David Bingaman Pennsylvania Department of Agriculture
LNE03-179	On-farm production of mycorrhizal fungus inocula	\$129,849	David Douds, Jr. USDA/ARS Eastern Regional Research Center
LNE03-188	Sustainable parasitic mite control for honeybees	\$134,710	Nancy Ostiguy Pennsylvania State University
LNE03-191	Youth voices in agriculture	\$49,007	Maria van Hekken The Food Trust
LNE02-164	Biological Control Practices for High-Tunnel Crop Production	\$125,314	Michael Orzolek Pennsylvania State University
LNE02-174	Low-Income Community Markets Initiative	\$133,813	Duane Perry The Food Trust
LNE02-159	Use of Horticultural Oils for Mite Management in Fruit Orchards	\$39,281	Dr. Greg Krawczyk PSU, Department of Entomology, FREC

LNE01-150	Use of Composts in Grapes for Improving Vine Health & Soils	\$149,732	James Travis Penn State University Fruit Research and Extension
LNE00-134	Promoting Sustainable & Locally Grown Farm Products: Creating a Model Partnership to Increase Farmer Access to New Market Opportunities	\$159,253	Donna Pitz The Food Trust
LNE98-099	Creating a Farmers-Owned Value-Added Production/Processing Facility for Dairy Farmers in Central PA; A Joint Farmer/Community R&D Project	\$40,000	Jill Abrahamson Union Co. Planning Department Bill Deitrick Union Co. Conservation District Joe Detelj Union Co. Chamber of Commerce Nancy Roberts DePoe Penn State Extension
LNE96-070	Enhancement of Sustainable Pest Management Techniques through Utilization of Banker Plants and Colored Mulches in Commercial Greenhouses	\$144,774	Michael Orzolek Pennsylvania State University
LNE96-077	Sea Change Urban Horticulture Center: Sustainable Agriculture Initiatives	\$156,500	Rosalind Johnson Sea Change Inc.
LNE96-078	Seed Saving and Biodiversity in the Northeastern United States	\$20,000	Carolyn Sachs Pennsylvania State University
LNE96-072	Sustaining Grape Production in the Northeast through Farm-tested Information Technologies	\$147,943	James Travis Penn State University Fruit Research and Extension
LNE93-038	Biodiversity Education through the Pennsylvania Forest Stewardship Program	\$23,508	James Finley Pennsylvania State University
LNE93-037	Integrating Stewardship Forestry into Total Farm Management	\$48,408	James Finley Pennsylvania State University
LNE92-032	A Living Laboratory/Classroom for the Integration of Research and Education Efforts on Alternative Vegetable Production Systems	\$128,400	Michael Dann Penn State University
LNE90-021	Honeybee Breeding for Tracheal Mite Resistance in the Northeastern United States	\$40,000	Bruce A. McPheron Penn State University
LNE90-022	Novel Rotation Crops as Alternatives to Fumigant Nematicide Treatment in Deciduous Tree Fruit Production	\$58,745	John Halbrendt Penn State University, Fruit Research Laboratory
LNE89-016	Evaluation of Alternative Strategies for Small Fruit Production	\$521,768	Barbara L. Goulart Pennsylvania State University
LNE88-001	Development of a Sustainable Apple Production System for the Northeast (ANE92-16)	\$635,700	Terry Schettini Rodale Institute
LNE88-008	Implementation of Electronic Decision Support Technology for Apple Production	\$110,000	Edwin Rajotte Penn State

LNE88-011	Taking Charge: Strategies for Sustainable Agriculture in the Northeast (Video Presentations)	\$70,000	James O. Morgan Rodale
LNE88-007	Weed Control in Reduced Tillage Cropping Systems: Use of Overseeded Cover Crops	\$127,000	Dr. Rhonda Janke Kansas State University

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
ENE16-145	Training a network of educators for outreach on reduced-tillage organic feed and forage systems	\$66,570	Leslie Zuck Pennsylvania Certified Organic
ENE15-139	Creating a Sense of Belonging for Hispanic Farmers in Extension Programming	\$54,432	Elsa Sanchez Penn State University
ENE15-134	NE Advanced Agroforestry Training for Natural Resource and Agricultural Educators	\$96,444	Susan Richards Capital RC&D Tracey Coulter PA DCNR Bureau of Forestry
ENE15-136	The impact of corn silage harvesting and feeding decisions on income over feed costs	\$48,873	Virginia Ishler Extension Specialist
ENE13-128	Farm Energy IQ Training Program	\$145,000	Edward Johnstonbaugh Penn State Extension
ENE12-125	Enhancing Cooperative Extension capacity to support the advancement of adding value and direct marketing by farmers in the Northeast	\$161,960	Winifred McGee Penn State Extension
ENE12-124	Tools for Teams: Improving the success of dairy farm teams to benefit farm performance	\$96,133	Lisa Holden Penn State
ENE10-114	Reading the Farm: Discovering whole-farm interactions	\$32,734	Mary Barbercheck PSU Dept. of Entomology
ENE09-113	Preparing small and mid-size growers of fruits and vegetables for on-farm food safety certification	\$162,119	Dr. Joan Thomson Penn State University
ENE07-104	Whole farm nutrient planning for organic farms	\$96,756	Elsa Sanchez Penn State University
ENE06-100	Developing labor management expertise among agricultural advisors	\$117,070	Lisa Holden Penn State
ENE05-089	Soil quality workshop: Concepts and practices	\$43,659	Mary Barbercheck PSU Dept. of Entomology
ENE03-076	An educational program for training extension professionals and vocational agriculture teachers on high-tunnel technology	\$79,154	William Lamont Pennsylvania State University

ENE02-073	Direct Marketing for Increasing Farm Profitability: Training for Trainers Project	\$53,813	Maria van Hekken The Food Trust
ENE02-072	Strengthening Community Engagement in Sustainable Local Food Systems	\$99,483	Dr.Joan Thomson Penn State University
ENE02-066	Teaching the Entrepreneurial Process	\$28,704	John Berry PSU, Cooperative Extension, Lehigh County
ENE00-055	Establishing a Demonstration & Electronic Media Training Center for Farmer-Educators in Pasture-Based Livestock Production	\$77,579	Dr.John Comerford Penn state University
ENE00-058	Organic Grains Cropping Systems & Marketing: In-Service Education	\$95,005	Bill Liebhardt The Rodale Institute
ENE98-040	Diagnostic Team Approach to Enhancing Dairy Farm Sustainability, Phase II	\$50,000	C. William Heald The Pennsylvania State University
ENE96-016	A Diagnostic Team Approach to Enhancing Dairy Farm Sustainability	\$34,650	Lisa Holden Penn State
ENE96-025	Cooperating for Sustainability and Adding Value: A Training Program on Cooperatives and Value Added Marketing for USDA Staff in the Northeast	\$100,000	Tim Bowser Pennsylvania Association for Sustainable Agriculture
ENE96-026	Management and Evaluation of Soil Health: Inservice Education for the Mid-Atlantic Region	\$60,000	Laurie Drinkwater Rodale Institute
ENE96-021	Regionally Based Professional Development Program for Grazing Systems Management	\$92,149	Lawrence Muller Dept. of Dairy & Animal Science, Pennsylvania State University
ENE95-010	Education of Extension Workers in Sustainable Agriculture Practices Utilizing the PASA Conference and Farm Visits	\$35,000	James Travis Penn State University Fruit Research and Extension
ENE95-011	On-farm Research & Extension Education Program	\$90,373	Phil Rzewnicki Pennsylvania State University Cooperative Extension
ENE94-004	Education of Pennsylvania Extension Workers in Sustainable Agriculture Practices	\$21,902	James Travis Penn State University Fruit Research and Extension

FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
FNE16-837	Kale leaf nutrient density response to various mulches	\$15,000	Gregory Boulos Blackberry Meadows Farm
FNE16-839	Mid-Atlantic malting barley improvement	\$14,987	Mark Brault Deer Creek Malthouse

FNE16-841	Organic production methods for Belgian endive: Boosting small organic farmers' winter income	\$12,357	James Eisenstein Jade Family Farm
FNE16-836	Pennsylvania queen bee program and Heartland Honey Bee Breeders Cooperative: Mite-biting behavior and overwintering success	\$14,999	Jeffrey Berta Bee Keeper/ Commercial Grower
FNE15-830	Developing a criteria to select colostrum samples of poor quality	\$4,644	Sarah Hazelton Hazel-Rod Farm
FNE15-819	Pennsylvania queen bee improvement program and the Heartland Honey Bee Breeders Coop: Testing for mite-biting behavior	\$14,999	Jeffrey Berta Bee Keeper/ Commercial Grower
FNE15-834	The implementation of barrier strip cropping to mitigate bird damage on organic oilseed sunflowers	\$15,000	Dr.Samuel Yoder, VMD Green Alchemy
FNE14-804	Controlling grape root borer with pheromones	\$14,802	R. Martin Keen Landey Vineyards
FNE14-794	Will Nozevit make a difference in the health of a honeybee colony?	\$15,000	Craig Cella Craig A. Cella
FNE13-787	Experimental hybrid top bar hive	\$14,998	Anaiis Salles Green Sanctuary Earth Institute of Pennsylvania
FNE13-771	Pennsylvania queen bee improvement program: Sharing the best	\$15,000	Jeffrey Berta Bee Keeper/ Commercial Grower
FNE12-752	Alternative honey bee nutrition: Beyond sugar syrup	\$14,888	Dr.Petrusia Kotlar Paslawsky Linden Hill Farm and Apiary
FNE12-749	Development of a low-cost vertical patternator, part II	\$6,940	R. Martin Keen Landey Vineyards
FNE12-737	Queen bee improvement program: Another step forward	\$14,999	Jeffrey Berta Bee Keeper/ Commercial Grower
FNE11-732	Dynamic Attachment Frame System	\$14,900	Eric Vander Hyde Barefoot Gardens
FNE11-719	Establishment of Miscanthus (Miscanthus x giganteus) as an Alternate Bedding Supply	\$7,350	Steven Harnish Central Manor Dairy
FNE11-730	Evaluation of 12 Yellow Flesh Peach Cultivars for Organic Production in the Northeast	\$14,536	Jim Travis Fruit Farmer
FNE11-706	Feasibility of Shift Trellis Use for Northeastern Blackberry Production	\$3,318	Roy Brubaker Village Acres

FNE11-705	Queen Bee Improvement Program-Building on the Foundation of Pennsylvania Survivor Stock	\$14,984	Jeffrey Berta Bee Keeper/ Commercial Grower
FNE11-734	The Use of Plumbagin as an Organic Anthelmintic Against H.contortus in Sheep	\$14,916	Dr.Samuel Yoder, VMD Green Alchemy
FNE11-707	Using new frames and foundation as a way to control disease in Honeybee Hives	\$15,000	Craig Cella Craig A. Cella
FNE10-702	Comparison of Incorporated and Non-Incorporated Cover Cropping with an Organic Sunflower Fuel Project	\$11,694	Dr.Samuel Yoder, VMD Green Alchemy
FNE10-689	Development of a Low Cost Vertical Patternator	\$5,818	R. Martin Keen Landey Vineyards
FNE10-681	Honey Bee Hive Equipment Sterilization	\$15,000	Craig Cella Craig A. Cella
FNE09-658	Evaluating New, Extra-Hardy Grape Cultivars in Vermont	\$4,919	Steve Groff Cedar Meadow Farm
FNE09-667	Planting Small Seeded Vegetable Crops into a High Residue, Reduced Tillage Environment	\$6,491	Neil Myerov Myerov Family Farm
FNE08-639	Control of grape root borer	\$3,182	R. Martin Keen Landey Vineyards
FNE08-625	Evaluation of southern peas as cash cover crop in Pennsylvania	\$5,399	Michael Byers Demeter's Garden
FNE08-650	Farmer-built compost turner with hydraulic drive	\$9,472	Nigel Tudor Weatherbury Farm
FNE08-636	Grafting tomatoes in multi-bay high tunnels as a way to overcome soil-borne diseases	\$5,992	Steve Groff Cedar Meadow Farm
FNE08-626	Honeybees: To overwinter or not	\$7,500	Craig Cella Craig A. Cella
FNE08-634	Rotational grazing as a tool for Christmas tree producers	\$3,966	Jeremy Freymoyer
FNE08-652	The viability of growing and grazing high-sugar rye grass in southwestern Pennsylvania	\$5,215	George Wherry
FNE07-610	Control of grape root borer	\$2,719	R. Martin Keen Landey Vineyards
FNE07-611	No-till seeding of cover crops into	\$558	Edward Kuckuck

standing soybeans

FNE07-607	Rotational grazing as a management tool for Christmas tree producers	\$4,663	Jeremy Freymoyer
FNE07-601	Selecting better honeybees for the Northeast	\$7,965	Craig Cella Craig A. Cella
FNE06-581	Composting bedded pack barn	\$9,975	Cory Miles Helluvahill Farm
FNE06-576	Control of grape root borer	\$2,589	R. Martin Keen Landey Vineyards
FNE06-583	Energy-efficient short-term cold storage for vegetables and herbs	\$7,276	Linda Moist Clan Stewart Farm
FNE06-575	Field trials to evaluate the benefits of biofumigation as part of a potato cropping system in the Northeast	\$8,079	Glenn Hetherington
FNE06-567	How to make beekeeping more sustainable	\$6,369	Craig Cella Craig A. Cella
FNE05-550	Control of grape root borer	\$2,892	R. Martin Keen Landey Vineyards
FNE04-504	Beekeeping: More Honey with less Chemicals	\$10,000	Craig Cella Craig A. Cella
FNE04-520	Control of Grape Root Borer	\$2,227	R. Martin Keen Landey Vineyards
FNE03-496	Comparison of Trellis-Grown Cucumbers and Tomatoes Versus Free-Standing Plants on Three Types of Mulch, With and Without Intercropping for Disease Severity and Yield	\$4,970	Kristie Schwartz
FNE03-500	Continuation of an On-Farm Comparison of Fertility Treatments on One Sweet Corn Variety Planted and Harvested at Two Different Times During the Season.	\$1,960	Brooks Way Way Fruit Farm
FNE03-471	Control of Grape Root Borer	\$3,031	R. Martin Keen Landey Vineyards
FNE03-486	Effects of Vermicompost Applied in a High Tunnel	\$3,912	Claire Orner Quiet Creek Herb Farm
FNE03-481	Food for Thought	\$3,375	Brian Moyer Green Haven Farm

FNE03-498	Growing Native Ginseng for Conservation and Profit	\$6,786	David Thompson
FNE03-488	Study of More Cost Effective Ways of Crop Production	\$3,595	Jason Pontius KJ Farm
FNE03-450	Think Globally, Eat Locally	\$3,273	Kathryn Andersen Charlestown Cooperative Farm
FNE03-458	Using Sorghum Sudan Grass and Mega Millet for Summer Grazing Sheep	\$2,110	Roger Coulter Willowmoor Farm
FNE02-446	An On-Farm Comparison of Fertility Treatments on One Sweet Corn Variety Planted & Harvested at Two Different Times During the Season	\$3,813	Brooks Way Way Fruit Farm
FNE02-404	Construction and Use of Cover Crop Roller for Organic No-Till	\$6,275	John Brubaker
FNE02-411	Developing Sustainable Management Systems for Native Pollinators	\$3,343	Maryann Frazier Singing Creek Farm
FNE02-407	Use of Parasitic Wasp (<i>Trichogramma ostriniae</i>) for Bio-Control of European Corn Borer (<i>Ostrinia nubilalis</i>) in Sweet Corn	\$2,705	James Crawford
FNE02-442	Using a Winter Cover Crop of Rye and Hairy Vetch for Soil Conservation and Weed Control in a Mixed Vegetable System	\$2,096	Matt Steiman Wilson College
FNE01-359	Design & Preparation of Raised Beds for Year-Round Vegetable Production in Urban Agriculture	\$4,214	Mat Brener Greensgrow Farm
FNE01-378	Eighth Annual Groff Farm Field Day	\$7,340	Steve Groff Cedar Meadow Farm
FNE01-394	The Use of Corn Gluten Meal for Weed Control In Vineyards	\$792	Dominic Strohlein
FNE00-338	2000 "Farming for the Future" field day.	\$3,900	Steve Groff Cedar Meadow Farm
FNE00-313	Comparing soil nutrient levels to seasonal weather fluctuations, part II.	\$3,300	Klaas and Mary Howel Martens
FNE00-312	Establishing alfalfa in existing pasture.	\$1,320	Jeff Mamett
FNE00-306	Establishment of cover crops in corn and soybeans.	\$461	J. Robert Huntsberger

FNE00-307	Hardy kiwi pollination and production	\$7,060	David Jackson
FNE00-310	Pasture Aeration.	\$600	Larry Lemmon
FNE00-318	Pasture illumination.	\$780	Richard Stahl
FNE00-352	Research, development, and marketing of value-added pork products.	\$9,254	Barbara Wiand
FNE00-320	Slow-release natural/organic fertilizers in nursery crop production, part II.	\$660	Richard Tregidgo
FNE00-301	The control of pest pressure on cabbages using predator habitats.	\$7,948	David Fogarty-Harnish
FNE99-250	Economic and Environmental Impact of No-Till Processing Tomatoes vs. Conventional Processing Tomatoes	\$1,950	Steve Groff Cedar Meadow Farm
FNE99-233	Evaluation of Forage Soybeans	\$745	Tim Brown
FNE99-273	Improving Soil Micronutrients	\$2,028	Bob Russo
FNE99-259	Mobile Shade Rack	\$1,226	Kirk Kreger
FNE99-248	Pastured Poultry Products	\$3,660	Barb Gorski
FNE99-275	Promoting Summer Lettuce/Mesclun Growth and Preventing Deer Damage with Shadecloth	\$511	Judy Smeltzer
FNE99-281	Slow Release Natural/Organic Fertilizers in Nursery Crop Production	\$1,590	Richard Tregidgo
FNE99-238	Spring Hydroseeding of Switchgrass on Winter Wheat	\$1,830	Franklin Chow
FNE98-221	Effect of Compost Teas in Controlling Late Blight Damage to Tomatoes in Pennsylvania	\$500	Donald Kretschmann
FNE98-193	Farmers Marketing Strategy for Westmoreland City	\$6,300	Paul Sarver

FNE98-206	Low-input Sustainable Dairy Farming Through Draft Horse Power	\$1,825	Dennis Trainor
FNE97-170	Comparison of Weed control and Soil Erosion Control in 15" row Corn vs 30" row Corn	\$1,495	Steve Groff Cedar Meadow Farm
FNE96-146	Alternative Rotation System for Vegetables	\$2,960	Allen G. Matthews Farmer's Alternative Resource and Market Cooperative (FARM Coop)
FNE96-128	Economic Comparison & Weed Control Observation of 15" Row Corn vs. 30" Row Corn	\$1,040	Steve Groff Cedar Meadow Farm
FNE96-120	Minimizing Equipment Costs on a Grazing Farm	\$2,683	Marion Bowlan
FNE95-113	Quick Protein	\$2,610.35	Jim Weaver
FNE94-076	Early Winter Strawberry Production	\$1,943.12	Harry K. Zimmerman Cinnamon Hill Farm
FNE94-057	Evaluation of Water Retaining Soil Amendment, Cropping Systems and an Alternative Labor Source for Vegetable Production	\$5,087	Mike Kotz
FNE94-075	The Evaluation and Demonstration of the Ability of Garden-Mate(tm) to Afford Adequate Herbicidal Activity in Sweet Corn at Reduced Rates of Atrazine and Metoloclor	\$781.71	Harry K. Zimmerman Cinnamon Hill Farm
FNE93-027	A Wetland Demonstration Project for Water Quality Improvement, Wildlife Habitat Creation, and Farmer Education	\$5,000	Derek & B.C. Dickson
FNE93-015	Evaluation of a Biocontrol Method for Farm Fly Management	\$2,155	Diane Mathews-Gehringer 4 Springs Farm
FNE93-033	Evaluation of Integrated and Biological Pest & Disease Controls in Orchards	\$1,839	Dwight Mickey
FNE93-025	Fiber-producing goats as an alternative to chemical weed and brush control in pasture reclamation and management	\$5,000	Ellen Reker
FNE93-036	Reactions of Peracetic Acid to Botrytis cinerea	\$1,830	James Perkins 7 Springs Farm
FNE93-016	Stewardship Forestry on the Farm	\$3,890	George W. Freeman

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
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GNE16-140	Assessing the impact of energy-related landowner coalitions on the sustainability of Pennsylvania farming communities	\$14,845	Grace Wildermuth The Pennsylvania State University
GNE16-119	Do cover crops stabilize wine grape productivity in a variable climate?	\$14,999	Suzanne Fleishman The Pennsylvania State University Department of Plant Science
GNE16-137	Effects of yield regulation practices on grapevine productivity, health, and economic sustainability	\$14,864	Maria Smith Penn State
GNE16-120	Evaluating brown mid-rib (BMR) dwarf pearl millet as a forage for lactating dairy cows	\$14,885	Michael Harper The Pennsylvania State University
GNE16-134	Impacts of cover crops and tillage on predator-prey interactions within organic cropping systems	\$14,635	Karly Regan Pennsylvania State University
GNE16-122	Interseeded cover crops: Evaluating nitrogen retention services provided by plant-microbe relationships	\$14,998	Sarah Isbell The Pennsylvania State University
GNE16-131	Macroarthropod decomposers in field crops: Influence on residue breakdown and response to prophylactic insecticides	\$15,000	Kirsten Pearsons The Pennsylvania State University
GNE16-135	Plant probiotics? Understanding how soil health practices influence plant-insect interactions	\$15,000	Elizabeth Rowen Pennsylvania State University
GNE16-127	Renewable alternative bedding for commercial broiler chicken production	\$14,258	Amy Mayer Penn State University
GNE16-138	Targeting sustainable soil management practices using crop modeling in soybean systems.	\$14,984	Giovani Stefani Fae Penn State University
GNE16-133	Undercover agent: Uncovering the effects of cover crops on a beneficial soil fungus	\$14,569	Puneet Randhawa The Pennsylvania State University
GNE16-118	Understanding the epidemiology of pathogens within bee communities in Pennsylvania	\$14,969	Briana Ezray The Pennsylvania State University
GNE15-093	Boosting plant defenses using silicon fertilization	\$14,993	Flor Acevedo Penn State University
GNE15-105	Local and regional food systems, soil phosphorus, and resilience in a northeastern regional farmers' market network	\$14,796	Russell Hedberg Penn State
GNE15-100	Winter is coming: Improving overwintering survival of honey bee colonies in Pennsylvania	\$14,940	Mehmet Ali Doke Pennsylvania State University
GNE14-090	Development of pheromonal tools for honeybee breeding	\$14,998	Gabriel Villar Pennsylvania State University

GNE14-081	The role of cover crop diversity on key generalist predator attraction and pest suppression	\$14,996	Jermaine Hinds Pennsylvania State University
GNE13-059	Root cortical aerenchyma in maize hybrids in Pennsylvania and interaction with mycorrhiza and soil-borne pathogens	\$14,999	Tania Galindo Pennsylvania State University
GNE13-060	Soil health and soil management decision-making in the mid-Atlantic.	\$14,959	Jennifer Hayden Penn State University
GNE12-042	A Comparative Assessment of Land Link Programs in the Northeast Region	\$9,984	Leslie Pillen Pennsylvania State University
GNE12-044	Predator-prey interactions in a high residue, reduced tillage agroecosystem	\$14,234	Ariel Rivers Pennsylvania State University
GNE12-050	The human cost of food: Sustaining farm labor using alternative labor practices on diversified farms in Pennsylvania	\$4,042	Kathleen Wood The Pennsylvania State University
GNE12-037	The role of cover crops as a floral resource for native bee conservation in agroecosystems	\$14,929	Katherine Ellis Penn State University
GNE11-028	Bumble bee nest density in diversified farms to ensure pollination services	\$14,964	Chanpreet Sidhu The Pennsylvania State University
GNE11-017	Cover crop cocktails: Harnessing diversity to enhance nitrogen retention in agroecosystems	\$14,998	Denise Finney Penn State University
GNE11-014	Striving for sustainable pest management in no-till, field-crop systems: Understanding the role of insecticidal seed treatments	\$14,494	Maggie Douglas Pennsylvania State University, Dept. of Entomology
GNE10-002	Evaluating Normande, U.S. Purebreds, and Normande Crossbreds on Production, Reproductive Performance, Survivability, and Partitioning of Energy During Periods of High and Low Pasture Availability	\$13,955	Dustin Brown The Pennsylvania State University
GNE10-006	Exploiting plant genotypic diversity for sustainable insect pest management	\$13,179	Ian Grettenberger Pennsylvania State University
GNE10-009	Self-regulating weed control through the enhancement of beneficial ground dwelling invertebrates	\$15,000	Jeffrey Law Pennsylvania State University

ON-FARM RESEARCH/PARTNER GRANTS

Project #	Project Title	SARE support	Project Leaders
ONE16-260	Investigating bat activity in various agricultural landscapes to develop organic insect pest management	\$14,938	Kate Harms Rodale Institute
ONE16-257	New apple rootstocks' influence on	\$14,562	Dr. Rob Crassweller

	mineral composition of leaves and fruit		Penn State University
ONE16-278	Organic weed management using chemically and microbially designed compost extracts	\$14,728	Dr.Gladis Zinati Rodale Institute
ONE16-287c	Promoting cover crops on grain and vegetable farms in Pennsylvania	\$11,111	Dr.Sjoerd Duiker Penn State University
ONE15-250	Developing an IPM program against slugs in mid-Atlantic no-till grain fields	\$12,714	Dr.John Tooker Penn State
ONE15-239	Development of tools and procedures to improve the consistency of farmstead cheeses	\$14,999	Dr.Kerry Kaylegian Penn State University
ONE15-232	Increasing farmer participation in local government	\$14,999	Judy Chambers Penn State Extension Adams County
ONE15-240	Using heat recovery ventilation systems in high tunnels to increase winter crop production	\$9,782	Chris Lent National Center for Appropriate Technology (NCAT)
ONE14-224	Evaluating the feasibility, effectiveness and challenges of sprouted grains on grazing dairy farms	\$14,503	Dr.Kathy Soder USDA-ARS
ONE14-225	FARMDATA: An internet-based production record system for vegetable farm improvement	\$14,689	Matt Steiman Dickinson College Farm
ONE14-214	Market assessment for Northeast forest-grown mushrooms	\$14,564	Allen Matthews Chatham University
ONE13-189	Advancing on-farm understanding and application of silvopasture technologies in Pennsylvania	\$14,426	Susan Parry USDA-NRCS
ONE13-174	Evaluation of continuous suckling or ewe-rearing strategy by lamb producers	\$14,792	Marlon Knights West Virginia University
ONE13-186	Impact of using high-quality biological compost and compost extract on corn production, plant nutrient content, and soil quality	\$14,926	Dr.Elaine Ingham Rodale Institute Dr.Gladis Zinati Rodale Institute Stacy Glackin Rodale Institute
ONE13-178	Sustainable grass energy pellets for the Northeast	\$14,378	Dr.Daniel Ciolkosz Penn State Ag & Bio Engineerin
ONE13-194	The adoption of an on-farm culture program by small- and medium-sized dairies in Pennsylvania to make proactive decisions	\$14,683	Andrea Tholen Penn State Extension-Mercer Amber Yutz Penn State Extension
ONE12-166	Creating a web-based tool to link farmers with institutional land-lease opportunities	\$15,000	Lisa Mosca Pennsylvania Horticultural Society

ONE12-160	Dairies Utilizing Mob Grazing in the Northeast	\$14,856	Mena Hautau Penn State Extension
ONE12-172	Refining the potential for interseeding cover crops in corn	\$14,703	Dr.Gregory Roth Penn State University
ONE11-136	A Novel, Laborsaving Trellising System for Grape Tomatoes	\$14,980	Steve Bogash Penn State Cooperative Extension
ONE11-150	Native Bee Habitat Rehabilitation; Encouraging greater adoption of sustainable pollination practices – part III	\$14,934	Alexandru Surcica Penn State Cooperative Extension
ONE10-128	Assessing Bee Pollination Requirements in Pumpkin	\$14,405	Alexandru Surcica Penn State Cooperative Extension
ONE10-130	Maximizing natural enemy-provided control in no-till, field crop systems	\$10,008	Dr.John Tooker Penn State
ONE10-129	Native Bee Habitat Rehabilitation; Encouraging Greater Adoption of Sustainable Pollination Practices- Part II	\$14,254	Alexandru Surcica Penn State Cooperative Extension
ONE09-093	Advanced Trellis Methods and Mechanical Harvesting for Grape Tomatoes	\$9,815	Steve Bogash Penn State Cooperative Extension
ONE09-102	Cultural practices to improve fresh market onion quality and profitability	\$9,969	Christine Hoepting Cornell Cooperative Extension Vegetable Program
ONE09-100	Developing an on-farm method to estimate DM loss in corn silage silos	\$9,572	Dr.Kenneth Griswold Kemin AgriFoods North America
ONE09-094	Improving Native Bee Pollination Part 2: Alternative Nest Boxes Building on the Lessons from the Field in 2008	\$9,203	Steve Bogash Penn State Cooperative Extension
ONE09-107	Native Bee habitat Rehabilitation; Encouraging greater adoption of sustainable pollination practices	\$9,894	Alexandru Surcica Penn State Cooperative Extension
ONE09-097	Rolled Down Cover Crop Mulch for Pumpkin and Soybean Production	\$6,857	S. Tianna DuPont Penn State
ONE08-079	Improving Pollination through bumblebee habitation; Evaluation of nest box types in bumblebee colonization	\$9,833	Steve Bogash Penn State Cooperative Extension
ONE08-083	Use of alternative row covers and pollinators to manage insect pests and improve cucurbit production and profitability	\$9,764	Michele Gauger Pennsylvania Association for Sustainable Agriculture
ONE07-068	Enterprise benchmarks for direct-to-consumer farm marketers	\$9,101	John Berry PSU, Cooperative Extension, Lehigh County

ONE07-075	Improving air quality and dairy profitability through reduced protein feeding	\$9,997	Eugene Schurman Penn State Cooperative Extension
ONE07-077	Promoting sustainable crop pollination by wild bees through farmer outreach and education	\$9,330	Neal Williams Bryn Mawr College
ONE07-076	Tower-hive configuration for the maximization of honey yields and increased efficacy of easy drone brood removal	\$9,461	Dennis vanEngelsdorp The Pennsylvania State University
ONE05-042	Assessment of regional organic alternative dairy management practices	\$9,225	Dr.Hubert Karreman Penn Dutch Cow Care
ONE05-034	Evaluating two-colony hives for increased productivity and varroa mite control	\$9,744	Maryann Frazier Penn State University
ONE05-035	Increased use of cover crops in field and vegetable crop rotations through farmer-directed on-farm research and outreach opportunities	\$9,859	Ronald Hoover The Pennsylvania State University Michele Gauger Pennsylvania Association for Sustainable Agriculture
ONE04-029	Enhancing Dairy Profitability and Reducing Potential Water Pollution Through Lower Dairy Ration Phosphorus Levels	\$9,633	Eugene Schurman Penn State Cooperative Extension
ONE04-019	Pastured Pork Marketing -- Cultivating a Meat CSA for Wil-Den Family Farms	\$10,000	David Eson PA Association for Sustainable Agriculture
ONE04-022	Potato Leafhopper Resistant Alfalfa: The Potential for Improving Organic and Traditional Farming Systems	\$10,000	Marvin Hall Penn State University
ONE04-024	Selling Grass-Fed Beef to College Market	\$6,909	Heather House PASA
ONE03-008	Developing a model for evaluating marketing expense for value-added products that can be used to more intelligently price core products	\$9,105	Drew Keegan Pennsylvania Preferred
ONE03-003	Development of attract-and-kill technology against the oriental fruit moth in Pennsylvania apple orchards	\$9,375	M. L. Evenden West Chester University
ONE03-006	Reducing herbicide usage, minimizing grazing down time, and improving pasture productivity with banded application of herbicide during pasture renovation	\$9,980	David Hartman Penn State University Ronald Hoover The Pennsylvania State University
ONE03-010	Sustainable agriculture and forestry demonstration project	\$10,000	Kimberlee Moninger Sustaining Greene County

COMMUNITY INNOVATION GRANTS

Project #	Project Title	SARE support	Project Leaders
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CNE12-099	A How-To-Guide for the Urban, Micro-Agricultural Entrepreneur: For Aspiring Farmers in Low-income, urban, neighborhoods.	\$14,967	Laura Thornton Sustainable Urban Development, Inc.
CNE11-091	An Experience Economy Approach to Enhancing Chautauqua-Lake Erie Area Wine Tourism	\$15,000	Donna Quadri Iowa State University
CNE10-075	Lehigh Valley Composting Initiative	\$13,584	Rebecca Kennedy Lehigh County Conservation District
CNE10-076	PA Food for Profit On-Line Project	\$14,278	Winifred McGee Penn State Extension
CNE09-060	A mobile farmers' market for senior and WIC Farmers Market Nutrition Program beneficiaries	\$19,498	Schirlyn Kamara Threshold Foundation
CNE08-043	Addressing seasonality barriers in farm-to-college initiatives with winter storage vegetables	\$9,701	Emily Gunther Fair Food
CNE07-036	Pennsylvania Keystone Kitchens incubator project	\$19,783	Winifred McGee Penn State Extension
CNE07-022	Promoting Pennsylvania cheese at farmers' markets	\$9,212	Patrick Gorman The Food Trust
CNE07-033	Regional food infrastructure network	\$25,000	Leah Smith PASA

**Total funding from the USDA SARE program to
Pennsylvania
\$11,701,249**



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

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