



# AGRICULTURE PROJECTS FUNDED IN PENNSYLVANIA

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

Pennsylvania has been awarded \$13,410,989 grants to support 311 projects, including but not limited to, 59 research and/or education projects, 26 professional development projects and 105 producer-led projects. Pennsylvania has also received additional SARE support through multi-state projects.

## RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">LNE19-380</a>	Biological Control Options for Fly Control in Poultry Facilities	\$224,003	Dr.Erika Machtinger Pennsylvania State University
<a href="#">LNE19-378</a>	Sensor-Based Precision Irrigation Systems for Tree Fruit and Vegetable Crops	\$199,936	Long He Pennsylvania State University
<a href="#">LNE18-367</a>	Carbon Gaps, Nitrogen Bulges, and Phosphorus Imbalances: In Search of Sustainable Soil Organic Matter Management	\$199,956	Dr.Charles White Plant Science Department, Penn State
<a href="#">LNE17-356</a>	Optimizing yield, milling quality, and disease management in spelt and other heritage grain production in the mid-Atlantic	\$57,281	Alyssa Collins Penn State Southeast Agricultural Research & Extension Center
<a href="#">LNE16-349</a>	Development of resources for small raw-milk cheesemakers to conduct science-based risk assessments	\$131,271	Dr.Kerry Kaylegian Penn State University
<a href="#">LNE16-352</a>	Forage brassicas to mitigate methane emissions and increase economic sustainability of forage-based dairy systems	\$192,009	Dr.Kathy Soder USDA-ARS
<a href="#">LNE14-330</a>	Reducing parasite resistance on equine operations using a comprehensive, whole-farm approach	\$146,873	Donna Foulk Penn State Extension Dr.Ann Swinker Penn State University
<a href="#">LNE14-331</a>	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
<a href="#">LNE13-329</a>	Sustainable cropping systems for dairy farmers in the Northeast, II	\$400,000	Dr.Heather Karsten The Pennsylvania State University
<a href="#">LNE12-320</a>	Using cultivar mixtures to improve pest control and grain crop production	\$164,919	Dr.John Tooker Penn State
<a href="#">LNE12-321</a>	Education and decision support strategy for farm-level economic and	\$162,327	Dr.R Weaver Penn State Univ

	environmental assessment of dairy Best Management Practices		
<a href="#">LNE10-295</a>	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
<a href="#">LNE10-303</a>	Development and implementation of an equine environmental stewardship program	\$135,000	Dr. Ann Swinker Penn State University
<a href="#">LNE09-286</a>	Improving the efficiency of nitrogen use and reducing ammonia emissions from Pennsylvania dairies	\$179,940	Dr. Alexander Hristov Pennsylvania State University
<a href="#">LNE09-288</a>	Non-chemical control of wood boring insects affecting apple and peach	\$103,022	Dr. Greg Krawczyk PSU, Department of Entomology, FREC
<a href="#">LNE09-291</a>	Sustainable cropping systems for dairy farms in the Northeastern US	\$400,000	Dr. Heather Karsten The Pennsylvania State University
<a href="#">LNE08-268</a>	Increasing Cropping System Sustainability through the Adoption of Cover Crop and Rotational No-Till Strategies	\$144,815	Rita Seidel Rodale Institute
<a href="#">LNE08-276</a>	On-Farm Training and Participatory Learning: Biologically-based IPM and sustainable Farming Practices for Amish and Mennonite Vegetable Growers	\$143,991	Cathy Thomas Pennsylvania Department of Agriculture Wade Esbenschade PA Dept. of Ag
<a href="#">LNE07-258</a>	Empowering dairy farmers to build a cottage industry	\$116,901	Allison Shauger Pennsylvania Association for Sustainable Agriculture Rebecca Robertson Pennsylvania Assn for Sustainable Agriculture
<a href="#">LNE07-251</a>	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
<a href="#">LNE06-236</a>	Adoption of grass-fed beef management practices	\$58,594	Dr. John Comerford Penn State University
<a href="#">LNE06-239</a>	Diversifying with Small Ruminants for Profitability	\$85,340	Allison Shauger Pennsylvania Association for Sustainable Agriculture
<a href="#">LNE06-244</a>	Integrated cover crop innovations for biologically based no-till	\$118,310	Stacy Glackin Rodale Institute Jeff Moyer The Rodale Institute
<a href="#">LNE06-247</a>	Teaching farmers to make biodiesel fuel from waste vegetable oil	\$46,476	Matt Steiman Wilson College
<a href="#">LNE06-248</a>	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
<a href="#">LNE05-227</a>	In search of sustainable Botrytis management: An extension and research effort	\$87,374	Elsa Sanchez Penn State University
<a href="#">LNE05-234</a>	Focus on organic dairy: An integrated program for Pennsylvania producers	\$149,277	Leslie Zuck Pennsylvania Certified Organic
<a href="#">LNE05-216</a>	Using cover crops and crop diversity to optimize ecologically based weed management	\$98,732	Willaim Curran Penn State University
<a href="#">LNE05-219</a>	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
<a href="#">LNE05-226</a>	WAgN: Sustainable ag network by and for women producers	\$138,292	Carolyn Sachs Pennsylvania State University
<a href="#">LNE04-195</a>	Enhancing Cut Flower Production and Marketing for Produce Growers: Methods of Diversification Into Proven Niches	\$73,241	Steve Bogash Penn State Cooperative Extension
<a href="#">LNE04-196</a>	Sustaining Northeast Farms for Future Generations	\$148,500	Marion Bowlan Pennsylvania Farm Link
<a href="#">LNE04-209</a>	Pennsylvania Food Education to Increase Consumption of Locally Grown Food	\$61,863	Karima Rose The Food Trust
<a href="#">LNE04-212</a>	Winter Harvest: Teaching a successful local food model from urban Philadelphia	\$35,756	Brian Snyder Pennsylvania Assoc. for Sustainable Agriculture
<a href="#">LNE03-176</a>	Greenhouse IPM for the Amish and Mennonite community of Lancaster County	\$56,890	David Bingaman Pennsylvania Department of Agriculture
<a href="#">LNE03-179</a>	On-farm production of mycorrhizal fungus inocula	\$129,849	David Douds, Jr. USDA/ARS Eastern Regional Research Center
<a href="#">LNE03-181</a>	Compost Tea for Disease Management in Horticultural Crops	\$147,956	Paul Hepperly The Rodale Institute
<a href="#">LNE03-188</a>	Sustainable parasitic mite control for honeybees	\$134,710	Nancy Ostiguy Pennsylvania State University
<a href="#">LNE03-191</a>	Youth voices in agriculture	\$49,007	Maria van Hekken The Food Trust
<a href="#">LNE02-159</a>	Use of Horticultural Oils for Mite Management in Fruit Orchards	\$39,281	Dr.Greg Krawczyk PSU, Department of Entomology, FREC
<a href="#">LNE02-164</a>	Biological Control Practices for High-	\$125,314	Michael Orzolek

	Tunnel Crop Production		Pennsylvania State University
<a href="#">LNE02-174</a>	Low-Income Community Markets Initiative	\$133,813	Duane Perry The Food Trust
<a href="#">LNE01-150</a>	Use of Composts in Grapes for Improving Vine Health & Soils	\$149,732	James Travis Penn State University Fruit Research and Extension
<a href="#">LNE00-134</a>	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
<a href="#">LNE98-099</a>	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
<a href="#">LNE96-070</a>	Enhancement of Sustainable Pest Management Techniques through Utilization of Banker Plants and Colored Mulches in Commercial Greenhouses	\$144,774	Michael Orzolek Pennsylvania State University
<a href="#">LNE96-072</a>	Sustaining Grape Production in the Northeast through Farm-tested Information Technologies	\$147,943	James Travis Penn State University Fruit Research and Extension
<a href="#">LNE96-077</a>	Sea Change Urban Horticulture Center: Sustainable Agriculture Initiatives	\$156,500	Rosalind Johnson Sea Change Inc.
<a href="#">LNE96-078</a>	Seed Saving and Biodiversity in the Northeastern United States	\$20,000	Carolyn Sachs Pennsylvania State University
<a href="#">LNE93-038</a>	Biodiversity Education through the Pennsylvania Forest Stewardship Program	\$23,508	James Finley Pennsylvania State University
<a href="#">LNE93-037</a>	Integrating Stewardship Forestry into Total Farm Management	\$48,408	James Finley Pennsylvania State University
<a href="#">LNE92-032</a>	A Living Laboratory/Classroom for the Integration of Research and Education Efforts on Alternative Vegetable Production Systems	\$128,400	Michael Dann Penn State University
<a href="#">LNE90-021</a>	Honeybee Breeding for Tracheal Mite Resistance in the Northeastern United States	\$40,000	Bruce A. McPheron Penn State University
<a href="#">LNE90-022</a>	Novel Rotation Crops as Alternatives to Fumigant Nematicide Treatment in Deciduous Tree Fruit Production	\$58,745	John Halbrendt Penn State University, Fruit Research Laboratory
<a href="#">LNE89-016</a>	Evaluation of Alternative Strategies for Small Fruit Production	\$521,768	Barbara L. Goulart Pennsylvania State University
<a href="#">LNE88-008</a>	Implementation of Electronic Decision	\$110,000	Edwin Rajotte

	Support Technology for Apple Production		Penn State
<a href="#">LNE88-011</a>	Taking Charge: Strategies for Sustainable Agriculture in the Northeast (Video Presentations)	\$70,000	James O. Morgan Rodale
<a href="#">LNE88-001</a>	Development of a Sustainable Apple Production System for the Northeast (ANE92-16)	\$635,700	Terry Schettini Rodale Institute
<a href="#">LNE88-007</a>	Weed Control in Reduced Tillage Cropping Systems: Use of Overseeded Cover Crops	\$127,000	Dr. Rhonda Janke Kansas State University

#### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

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

<a href="#">ENE03-076</a>	An educational program for training extension professionals and vocational agriculture teachers on high-tunnel technology	\$79,154	William Lamont Pennsylvania State University
<a href="#">ENE02-072</a>	Strengthening Community Engagement in Sustainable Local Food Systems	\$99,483	Dr.Joan Thomson Penn State University
<a href="#">ENE02-073</a>	Direct Marketing for Increasing Farm Profitability: Training for Trainers Project	\$53,813	Maria van Hekken The Food Trust
<a href="#">ENE02-066</a>	Teaching the Entrepreneurial Process	\$28,704	John Berry PSU, Cooperative Extension, Lehigh County
<a href="#">ENE00-055</a>	Establishing a Demonstration & Electronic Media Training Center for Farmer-Educators in Pasture-Based Livestock Production	\$77,579	Dr.John Comerford Penn state University
<a href="#">ENE00-058</a>	Organic Grains Cropping Systems & Marketing: In-Service Education	\$95,005	Bill Liebhardt The Rodale Institute
<a href="#">ENE98-040</a>	Diagnostic Team Approach to Enhancing Dairy Farm Sustainability, Phase II	\$50,000	C. William Heald The Pennsylvania State University
<a href="#">ENE96-016</a>	A Diagnostic Team Approach to Enhancing Dairy Farm Sustainability	\$34,650	Lisa Holden Penn State
<a href="#">ENE96-021</a>	Regionally Based Professional Development Program for Grazing Systems Management	\$92,149	Lawrence Muller Dept. of Dairy & Animal Science, Pennsylvania State University
<a href="#">ENE96-025</a>	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
<a href="#">ENE96-026</a>	Management and Evaluation of Soil Health: Inservice Education for the Mid-Atlantic Region	\$60,000	Laurie Drinkwater Rodale Institute
<a href="#">ENE95-011</a>	On-farm Research & Extension Education Program	\$90,373	Phil Rzewnicki Pennsylvania State University Cooperative Extension
<a href="#">ENE95-010</a>	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
<a href="#">ENE94-004</a>	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
<a href="#">FNE19-945</a>	Farmer-Built Grain Pearling Machine	\$14,748	Nigel Tudor

			Weatherbury Farm
<a href="#">FNE18-886</a>	PA Queen Project and the HHBBC Field Test Mite-Biting Behavior using Backyard Scientists	\$15,000	Jeffrey Berta Always Summer Herbs
<a href="#">FNE18-896</a>	Aggregation and Cooperative Marketing Opportunities for Enhancing Chestnut ( <i>Castanea</i> spp.) Production and Conservation	\$13,180	Erik Hagan Windswept Agroforestry Farm
<a href="#">FNE18-911</a>	Evaluation of Pasture Dragging as Non-Chemical Control Method for Filth Fly Pests of Pastured Beef Cattle	\$14,059	Matt Steiman Dickinson College Farm
<a href="#">FNE17-863</a>	Mite-biting behavior in feral swarms: The Pennsylvania Queen Improvement Project	\$15,000	Jeffrey Berta Always Summer Herbs
<a href="#">FNE17-865</a>	Single-producer-scale preparation of warm-season grass for poultry bedding	\$13,555	Will Brandau Wood Crest Farm
<a href="#">FNE17-878</a>	Advanced cultivation tools for walk-behind tractors	\$7,944	Mark Nuneviller Nuneviller Farms
<a href="#">FNE17-881</a>	Growing Verona grapes organically in Pennsylvania	\$14,832	Randall Rice Mountain View Vineyard
<a href="#">FNE16-836</a>	Pennsylvania queen bee program and Heartland Honey Bee Breeders Cooperative: Mite-biting behavior and overwintering success	\$14,999	Jeffrey Berta Always Summer Herbs
<a href="#">FNE16-837</a>	Kale leaf nutrient density response to various mulches	\$15,000	Gregory Boulos Blackberry Meadows Farm
<a href="#">FNE16-839</a>	Mid-Atlantic malting barley improvement	\$14,987	Mark Brault Deer Creek Malthouse
<a href="#">FNE16-841</a>	Organic production methods for Belgian endive: Boosting small organic farmers' winter income	\$12,357	James Eisenstein Jade Family Farm
<a href="#">FNE15-819</a>	Pennsylvania queen bee improvement program and the Heartland Honey Bee Breeders Coop: Testing for mite-biting behavior	\$14,999	Jeffrey Berta Always Summer Herbs
<a href="#">FNE15-830</a>	Developing a criteria to select colostrum samples of poor quality	\$4,644	Sarah Hazelton Hazel-Rod Farm
<a href="#">FNE15-834</a>	The implementation of barrier strip cropping to mitigate bird damage on organic oilseed sunflowers	\$15,000	Dr.Samuel Yoder, VMD Green Alchemy
<a href="#">FNE14-804</a>	Controlling grape root borer with pheromones	\$14,802	R. Martin Keen Landey Vineyards

<a href="#">FNE14-794</a>	Will Nozevit make a difference in the health of a honeybee colony?	\$15,000	Craig Cella Craig A. Cella
<a href="#">FNE13-771</a>	Pennsylvania queen bee improvement program: Sharing the best	\$15,000	Jeffrey Berta Always Summer Herbs
<a href="#">FNE13-787</a>	Experimental hybrid top bar hive	\$14,998	Anaiis Salles Green Sanctuary Earth Institute of Pennsylvania
<a href="#">FNE12-737</a>	Queen bee improvement program: Another step forward	\$14,999	Jeffrey Berta Always Summer Herbs
<a href="#">FNE12-749</a>	Development of a low-cost vertical patternator, part II	\$6,940	R. Martin Keen Landey Vineyards
<a href="#">FNE12-752</a>	Alternative honey bee nutrition: Beyond sugar syrup	\$14,888	Dr.Petrusia Kotlar Paslawsky Linden Hill Farm and Apiary
<a href="#">FNE11-732</a>	Dynamic Attachment Frame System	\$14,900	Eric Vander Hyde Barefoot Gardens
<a href="#">FNE11-734</a>	The Use of Plumbagin as an Organic Anthelmintic Against H.contortus in Sheep	\$14,916	Dr.Samuel Yoder, VMD Green Alchemy
<a href="#">FNE11-705</a>	Queen Bee Improvement Program-Building on the Foundation of Pennsylvania Survivor Stock	\$14,984	Jeffrey Berta Always Summer Herbs
<a href="#">FNE11-706</a>	Feasibility of Shift Trellis Use for Northeastern Blackberry Production	\$3,318	Roy Brubaker Village Acres
<a href="#">FNE11-707</a>	Using new frames and foundation as a way to control disease in Honeybee Hives	\$15,000	Craig Cella Craig A. Cella
<a href="#">FNE11-719</a>	Establishment of Miscanthus (Miscanthus x giganteus) as an Alternate Bedding Supply	\$7,350	Steven Harnish Central Manor Dairy
<a href="#">FNE11-730</a>	Evaluation of 12 Yellow Flesh Peach Cultivars for Organic Production in the Northeast	\$14,536	Jim Travis Fruit Farmer
<a href="#">FNE10-681</a>	Honey Bee Hive Equipment Sterilization	\$15,000	Craig Cella Craig A. Cella
<a href="#">FNE10-689</a>	Development of a Low Cost Vertical Patternator	\$5,818	R. Martin Keen Landey Vineyards
<a href="#">FNE10-702</a>	Comparison of Incorporated and Non-Incorporated Cover Cropping with an Organic Sunflower Fuel Project	\$11,694	Dr.Samuel Yoder, VMD Green Alchemy
<a href="#">FNE09-658</a>	Evaluating New, Extra-Hardy Grape	\$4,919	Steve Groff



	Cultivars in Vermont		Cedar Meadow Farm
<a href="#">FNE09-667</a>	Planting Small Seeded Vegetable Crops into a High Residue, Reduced Tillage Environment	\$6,491	Neil Myerov Myerov Family Farm
<a href="#">FNE08-636</a>	Grafting tomatoes in multi-bay high tunnels as a way to overcome soil-borne diseases	\$5,992	Steve Groff Cedar Meadow Farm
<a href="#">FNE08-639</a>	Control of grape root borer	\$3,182	R. Martin Keen Landey Vineyards
<a href="#">FNE08-650</a>	Farmer-built compost turner with hydraulic drive	\$9,472	Nigel Tudor Weatherbury Farm
<a href="#">FNE08-652</a>	The viability of growing and grazing high-sugar rye grass in southwestern Pennsylvania	\$5,215	George Wherry
<a href="#">FNE08-625</a>	Evaluation of southern peas as cash cover crop in Pennsylvania	\$5,399	Michael Byers Demeter's Garden
<a href="#">FNE08-626</a>	Honeybees: To overwinter or not	\$7,500	Craig Cella Craig A. Cella
<a href="#">FNE08-634</a>	Rotational grazing as a tool for Christmas tree producers	\$3,966	Jeremy Freymoyer
<a href="#">FNE07-601</a>	Selecting better honeybees for the Northeast	\$7,965	Craig Cella Craig A. Cella
<a href="#">FNE07-607</a>	Rotational grazing as a management tool for Christmas tree producers	\$4,663	Jeremy Freymoyer
<a href="#">FNE07-610</a>	Control of grape root borer	\$2,719	R. Martin Keen Landey Vineyards
<a href="#">FNE07-611</a>	No-till seeding of cover crops into standing soybeans	\$558	Edward Kuckuck
<a href="#">FNE06-583</a>	Energy-efficient short-term cold storage for vegetables and herbs	\$7,276	Linda Moist Clan Stewart Farm
<a href="#">FNE06-567</a>	How to make beekeeping more sustainable	\$6,369	Craig Cella Craig A. Cella
<a href="#">FNE06-575</a>	Field trials to evaluate the benefits of biofumigation as part of a potato cropping system in the Northeast	\$8,079	Glenn Hetherington
<a href="#">FNE06-576</a>	Control of grape root borer	\$2,589	R. Martin Keen Landey Vineyards

<a href="#">FNE06-581</a>	Composting bedded pack barn	\$9,975	Cory Miles Helluvahill Farm
<a href="#">FNE05-550</a>	Control of grape root borer	\$2,892	R. Martin Keen Landey Vineyards
<a href="#">FNE04-504</a>	Beekeeping: More Honey with less Chemicals	\$10,000	Craig Cella Craig A. Cella
<a href="#">FNE04-520</a>	Control of Grape Root Borer	\$2,227	R. Martin Keen Landey Vineyards
<a href="#">FNE03-450</a>	Think Globally, Eat Locally	\$3,273	Katheryn Andersen Charlestown Cooperative Farm
<a href="#">FNE03-500</a>	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
<a href="#">FNE03-458</a>	Using Sorghum Sudan Grass and Mega Millet for Summer Grazing Sheep	\$2,110	Roger Coulter Willowmoor Farm
<a href="#">FNE03-471</a>	Control of Grape Root Borer	\$3,031	R. Martin Keen Landey Vineyards
<a href="#">FNE03-481</a>	Food for Thought	\$3,375	Brian Moyer Green Haven Farm
<a href="#">FNE03-486</a>	Effects of Vermicompost Applied in a High Tunnel	\$3,912	Claire Orner Quiet Creek Herb Farm
<a href="#">FNE03-488</a>	Study of More Cost Effective Ways of Crop Production	\$3,595	Jason Pontius KJ Farm
<a href="#">FNE03-496</a>	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
<a href="#">FNE03-498</a>	Growing Native Ginseng for Conservation and Profit	\$6,786	David Thompson
<a href="#">FNE02-404</a>	Construction and Use of Cover Crop Roller for Organic No-Till	\$6,275	John Brubaker
<a href="#">FNE02-407</a>	Use of Parasitic Wasp ( <i>Trichogramma ostriniae</i> ) for Bio-Control of European Corn Borer ( <i>Ostrinia nubilalis</i> ) in Sweet Corn	\$2,705	Jame Crawford

<a href="#">FNE02-411</a>	Developing Sustainable Management Systems for Native Pollinators	\$3,343	Maryann Frazier Singing Creek Farm
<a href="#">FNE02-442</a>	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
<a href="#">FNE02-446</a>	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
<a href="#">FNE01-359</a>	Design & Preparation of Raised Beds for Year-Round Vegetable Production in Urban Agriculture	\$4,214	Mat Brener Greensgrow Farm
<a href="#">FNE01-378</a>	Eighth Annual Groff Farm Field Day	\$7,340	Steve Groff Cedar Meadow Farm
<a href="#">FNE01-394</a>	The Use of Corn Gluten Meal for Weed Control In Vineyards	\$792	Dominic Strohlein
<a href="#">FNE00-307</a>	Hardy kiwi pollination and production	\$7,060	David Jackson
<a href="#">FNE00-310</a>	Pasture Aeration.	\$600	Larry Lemmon
<a href="#">FNE00-312</a>	Establishing alfalfa in existing pasture.	\$1,320	Jeff Mamett
<a href="#">FNE00-313</a>	Comparing soil nutrient levels to seasonal weather fluctuations, part II.	\$3,300	Klass and Mary Howel Martens
<a href="#">FNE00-318</a>	Pasture illumination.	\$780	Richard Stahl
<a href="#">FNE00-320</a>	Slow-release natural/organic fertilizers in nursery crop production, part II.	\$660	Richard Tregidgo
<a href="#">FNE00-301</a>	The control of pest pressure on cabbages using predator habitats.	\$7,948	David Fogarty-Harnish
<a href="#">FNE00-338</a>	2000 "Farming for the Future" field day.	\$3,900	Steve Groff Cedar Meadow Farm
<a href="#">FNE00-306</a>	Establishment of cover crops in corn and soybeans.	\$461	J. Robert Huntsberger
<a href="#">FNE00-352</a>	Research, development, and marketing of value-added pork products.	\$9,254	Barbara Wiand

<a href="#">FNE99-250</a>	Economic and Environmental Impact of No-Till Processing Tomatoes vs. Conventional Processing Tomatoes	\$1,950	Steve Groff Cedar Meadow Farm
<a href="#">FNE99-259</a>	Mobile Shade Rack	\$1,226	Kirk Kreger
<a href="#">FNE99-273</a>	Improving Soil Micronutrients	\$2,028	Bob Russo
<a href="#">FNE99-275</a>	Promoting Summer Lettuce/Mesclun Growth and Preventing Deer Damage with Shadecloth	\$511	Judy Smeltzer
<a href="#">FNE99-281</a>	Slow Release Natural/Organic Fertilizers in Nursery Crop Production	\$1,590	Richard Tregidgo
<a href="#">FNE99-233</a>	Evaluation of Forage Soybeans	\$745	Tim Brown
<a href="#">FNE99-238</a>	Spring Hydroseeding of Switchgrass on Winter Wheat	\$1,830	Franklin Chow
<a href="#">FNE99-248</a>	Pastured Poultry Products	\$3,660	Barb Gorski
<a href="#">FNE98-193</a>	Farmers Marketing Strategy for Westmoreland City	\$6,300	Paul Sarver
<a href="#">FNE98-206</a>	Low-input Sustainable Dairy Farming Through Draft Horse Power	\$1,825	Dennis Trainor
<a href="#">FNE98-221</a>	Effect of Compost Teas in Controlling Late Blight Damage to Tomatoes in Pennsylvania	\$500	Donald Kretschmann
<a href="#">FNE97-170</a>	Comparison of Weed control and Soil Erosion Control in 15" row Corn vs 30" row Corn	\$1,495	Steve Groff Cedar Meadow Farm
<a href="#">FNE96-146</a>	Alternative Rotation System for Vegetables	\$2,960	Allen G. Matthews Farmer's Alternative Resource and Market Cooperative (FARM Coop)
<a href="#">FNE96-120</a>	Minimizing Equipment Costs on a Grazing Farm	\$2,683	Marion Bowlan
<a href="#">FNE96-128</a>	Economic Comparison & Weed Control Observation of 15" Row Corn vs. 30" Row Corn	\$1,040	Steve Groff Cedar Meadow Farm
<a href="#">FNE95-113</a>	Quick Protein	\$2,610.35	Jim Weaver
<a href="#">FNE94-057</a>	Evaluation of Water Retaining Soil	\$5,087	Mike Kotz

	Amendment, Cropping Systems and an Alternative Labor Source for Vegetable Production		
<a href="#">FNE94-075</a>	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 Metolochlor	\$781.71	Harry Zimmerman Cinnamon Hill Farm
<a href="#">FNE94-076</a>	Early Winter Strawberry Production	\$1,943.12	Harry Zimmerman Cinnamon Hill Farm
<a href="#">FNE93-033</a>	Evaluation of Integrated and Biological Pest & Disease Controls in Orchards	\$1,839	Dwight Mickey
<a href="#">FNE93-036</a>	Reactions of Peracetic Acid to Botrytis cinerea	\$1,830	James Perkins 7 Springs Farm
<a href="#">FNE93-015</a>	Evaluation of a Biocontrol Method for Farm Fly Management	\$2,155	Diane Mathews-Gehring 4 Springs Farm
<a href="#">FNE93-016</a>	Stewardship Forestry on the Farm	\$3,890	George W. Freeman
<a href="#">FNE93-025</a>	Fiber-producing goats as an alternative to chemical weed and brush control in pasture reclamation and management	\$5,000	Ellen Reker
<a href="#">FNE93-027</a>	A Wetland Demonstration Project for Water Quality Improvement, Wildlife Habitat Creation, and Farmer Education	\$5,000	Derek & B.C. Dickson

#### GRADUATE STUDENT GRANTS

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">GNE19-222</a>	Optimization of Greenhouse Crop Pollination through Artificial Homeostatic Control of Bumblebee Hive Temperature	\$13,931	Rudolf Schilder Hannah Stewart Penn State University
<a href="#">GNE19-225</a>	Development of a Robotic Pruning System for Sustainable Apple Production	\$15,000	Long He Pennsylvania State University Azlan Zahid Penn State
<a href="#">GNE19-216</a>	Assessing the Effects of Neonicotinoid Treatments on Pumpkin on Bee Visitation and Pathogen Transmission	\$11,435	Margarita Lopez-Urbe Ginamaria Roman-Echevarria Pennsylvania State University
<a href="#">GNE19-195</a>	Purification and Testing of Corn-based Biopesticide	\$15,000	Dr.Surinder Chopra Penn State Univ Debamalya Chatterjee The Pennsylvania State University
<a href="#">GNE19-199</a>	Development of Microbial Communities to Suppress Tomato Foliar Pathogens	\$15,000	Kevin Hockett The Pennsylvania State University Hanareia Ehau-Taumaunu Pennsylvania State University
<a href="#">GNE19-202</a>	Mitigation of Heat Stress in Dairy Cattle by Dietary Supplementation of Octanoic Acid	\$15,000	Dr.Chad Dechow The Pennsylvania State University Longfei Han

			Penn State University
<a href="#">GNE19-214</a>	Defining Mechanisms Underlying Mite Tolerance and Honey Bee Survival	\$14,998	Dr.Christina Grozinger Penn State Allyson Ray The Pennsylvania State University
<a href="#">GNE19-215</a>	Using Protective Cultures to Control <i>Listeria monocytogenes</i> in Microbiomes from Small-Scale Dairy Production Facilities	\$14,940	Jasna Kovac The Pennsylvania State University Maria Laura Rolon The Pennsylvania State University
<a href="#">GNE18-173</a>	Native Perennial Grasses in Multifunctional Riparian Buffers for Improving Water Quality and Farm Profitability	\$14,991	Dr.Thomas Richard Penn State University Steph Herbstritt The Pennsylvania State University
<a href="#">GNE18-174</a>	Sexuality and Sustainable Agriculture: Examining Queer Farmers' Quality of Life in Pennsylvania	\$14,997	Dr.Kathleen Sexsmith Penn State University Michaela Hoffelmeyer Penn State Rural Sociology M.S. Program
<a href="#">GNE18-176</a>	Ultrasensitive and On-field Detection of a Plant Virus by a Nanotube-filtering Device and Isothermal Amplification	\$14,937	Dr.Cristina Rosa Penn State Juan Francisco Iturralde Martinez The Pennsylvania State University
<a href="#">GNE18-180</a>	Combining Infection Sources, Periods, and Persistence into the Integrated Management of Bitter Rot on Apples	\$14,992	Kari Peter Pennsylvania State University Phillip Martin The Pennsylvania State University
<a href="#">GNE18-186</a>	Symbiotic Nitrogen Fixation in Non-legumes: N-supply, Yield and Quality Effects in Tomato and Pepper	\$14,850	Dr.Sjoerd Duiker Penn State University Ryan Sebring Pennsylvania State University
<a href="#">GNE18-164</a>	Assessing the Impact of Organic Farming Practices on Building Drought Resistant Soil	\$14,346	Alain Plante University of Pennsylvania Abdelrahman Alfahham University of Pennsylvania
<a href="#">GNE18-189</a>	Exploring Disease Pressure in Response to Climate Change	\$14,993	Dr.Cristina Rosa Penn State Joseph Walls, III The Pennsylvania State University Md Tariqul Islam
<a href="#">GNE18-165</a>	Harnessing Forage Mixtures to Increase Ecosystem Services of Arthropod Predators and Weed Suppression	\$14,987	Dr.John Tooker Penn State Julie Baniszewski Pennsylvania State University
<a href="#">GNE18-190</a>	Sustainable Urban Agriculture in Pennsylvania: Assessing Best Practices for Historically Marginalized Farmers	\$14,970	Dr.Kathryn Brasier Pennsylvania State University Hannah Whitley The Pennsylvania State University
<a href="#">GNE18-168</a>	How Does 40 Years of No-till Affect Soil Microbial Nitrogen Dynamics	\$14,964	Mary Ann Bruns The Pennsylvania State University Mara Cloutier Pennsylvania State University
<a href="#">GNE17-144</a>	To be Host or not to be: Finding Sustainable Management through Endophyte Interactions	\$15,000	Dr.Maria del Mar Jimenez-Gasco The Pennsylvania State University Laura del Sol Bautista Jalon The Pennsylvania State University
<a href="#">GNE17-147</a>	UV-blocking plastics for sustainable control of Spotted Wing <i>Drosophila</i> in	\$14,705	Richard Marini PennState

	ever-bearing raspberries in high tunnels		Maria Cramer The Pennsylvania State University
<a href="#">GNE17-155</a>	A root-centric view of root-microbe interactions in apple replant disease	\$15,000	Dr.David Eissenstat Penn State Emily Lavelly The Pennsylvania State University
<a href="#">GNE17-142</a>	Designing farms that support wild bees	\$15,000	Dr.Christina Grozinger Penn State Melanie Kammerer Allen Penn State University
<a href="#">GNE16-137</a>	Effects of yield regulation practices on grapevine productivity, health, and economic sustainability	\$14,864	Dr.Michela Centinari Penn State University Maria Smith Ohio State
<a href="#">GNE16-119</a>	Do cover crops stabilize wine grape productivity in a variable climate?	\$14,999	Dr.Michela Centinari Penn State University Dr.David Eissenstat Penn State Suzanne Fleishman The Pennsylvania State University Department of Plant Science
<a href="#">GNE16-138</a>	Targeting sustainable soil management practices using crop modeling in soybean systems.	\$14,984	Dr.Gregory Roth Penn State University Armen Kemanian Pennsylvania State University Jack Watson Pennsylvania State University Giovani Stefani Fae Penn State University
<a href="#">GNE16-118</a>	Understanding the epidemiology of pathogens within bee communities in Pennsylvania	\$14,969	Dr.Heather Hines The Pennsylvania State University Briana Ezray The Pennsylvania State University
<a href="#">GNE16-140</a>	Assessing the impact of energy-related landowner coalitions on the sustainability of Pennsylvania farming communities	\$14,845	Dr.Kathryn Brasier Pennsylvania State University Grace Wildermuth The Pennsylvania State University
<a href="#">GNE16-122</a>	Interseeded cover crops: Evaluating nitrogen retention services provided by plant-microbe relationships	\$14,998	Dr.Jason Kaye Pennsylvania State University Sarah Isbell The Pennsylvania State University
<a href="#">GNE16-127</a>	Renewable alternative bedding for commercial broiler chicken production	\$14,258	Dr.Paul Patterson Penn State University Dr.Michael Hulet Penn State University Dr.Jude Liu Penn State University Amy Barkley Penn State University
<a href="#">GNE16-131</a>	Macroarthropod decomposers in field crops: Influence on residue breakdown and response to prophylactic insecticides	\$15,000	Dr.John Tooker Penn State Kirsten Pearsons The Pennsylvania State University
<a href="#">GNE16-133</a>	Undercover agent: Uncovering the effects of cover crops on a beneficial soil fungus	\$14,569	Mary Barbercheck PSU Dept. of Entomology Brianna Flonc The Pennsylvania State University
<a href="#">GNE16-134</a>	Impacts of cover crops and tillage on	\$14,635	Mary Barbercheck

	predator-prey interactions within organic cropping systems		PSU Dept. of Entomology Karly Regan Pennsylvania State University
<a href="#">GNE16-135</a>	Plant probiotics? Understanding how soil health practices influence plant-insect interactions	\$15,000	Dr. John Tooker Penn State Elizabeth Rowen Pennsylvania State University
<a href="#">GNE16-120</a>	Evaluating brown mid-rib (BMR) dwarf pearl millet as a forage for lactating dairy cows	\$14,885	Dr. Alexander Hristov Pennsylvania State University Dr. Michael Harper Milk Specialties Global
<a href="#">GNE15-093</a>	Boosting plant defenses using silicon fertilization	\$14,993	Gary Felton Penn State University Flor Acevedo Penn State University
<a href="#">GNE15-100</a>	Winter is coming: Improving overwintering survival of honey bee colonies in Pennsylvania	\$14,940	Dr. Christina Grozinger Penn State Dr. Mehmet Ali Doko Pennsylvania State University
<a href="#">GNE15-105</a>	Local and regional food systems, soil phosphorus, and resilience in a northeastern regional farmers' market network	\$14,796	Dr. Karl Zimmerer Penn State Russell Hedberg Penn State
<a href="#">GNE14-081</a>	The role of cover crop diversity on key generalist predator attraction and pest suppression	\$14,996	Mary Barbercheck PSU Dept. of Entomology Jermaine Hinds Pennsylvania State University
<a href="#">GNE14-090</a>	Development of pheromonal tools for honeybee breeding	\$14,998	Dr. Thomas Baker Pennsylvania State University Dr. Christina Grozinger Penn State Gabriel Villar Pennsylvania State University
<a href="#">GNE13-060</a>	Soil health and soil management decision-making in the mid-Atlantic.	\$14,959	Carolyn Sachs Pennsylvania State University Jennifer Hayden Penn State University
<a href="#">GNE13-059</a>	Root cortical aerenchyma in maize hybrids in Pennsylvania and interaction with mycorrhiza and soil-borne pathogens	\$14,999	Kathleen Brown The Pennsylvania State University Dr. Jonathan Lynch The Pennsylvania State University Dr. Gregory Roth Penn State University Tania Galindo Pennsylvania State University
<a href="#">GNE12-037</a>	The role of cover crops as a floral resource for native bee conservation in agroecosystems	\$14,929	Mary Barbercheck PSU Dept. of Entomology Katherine Ellis Penn State University
<a href="#">GNE12-042</a>	A Comparative Assessment of Land Link Programs in the Northeast Region	\$9,984	Clare Hinrichs The Pennsylvania State University Leslie Pillen Pennsylvania State University
<a href="#">GNE12-044</a>	Predator-prey interactions in a high residue, reduced tillage agroecosystem	\$14,234	Mary Barbercheck PSU Dept. of Entomology Ariel Rivers Pennsylvania State University
<a href="#">GNE12-050</a>	The human cost of food: Sustaining	\$4,042	Carolyn Sachs



	farm labor using alternative labor practices on diversified farms in Pennsylvania		Pennsylvania State University Kathleen Wood The Pennsylvania State University Kathleen Wood Penn State University
<a href="#">GNE11-014</a>	Striving for sustainable pest management in no-till, field-crop systems: Understanding the role of insecticidal seed treatments	\$14,494	Dr. John Tooker Penn State Maggie Douglas Pennsylvania State University, Dept. of Entomology
<a href="#">GNE11-017</a>	Cover crop cocktails: Harnessing diversity to enhance nitrogen retention in agroecosystems	\$14,998	Dr. Jason Kaye Pennsylvania State University Denise Finney Penn State University
<a href="#">GNE11-028</a>	Bumble bee nest density in diversified farms to ensure pollination services	\$14,964	Dr. Shelby Fleischer Penn State Chanpreet Sidhu The Pennsylvania State University
<a href="#">GNE10-002</a>	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	Dr. Chad Dechow The Pennsylvania State University Dustin Brown The Pennsylvania State University
<a href="#">GNE10-006</a>	Exploiting plant genotypic diversity for sustainable insect pest management	\$13,179	Dr. John Tooker Penn State Ian Grettenberger Pennsylvania State University
<a href="#">GNE10-009</a>	Self-regulating weed control through the enhancement of beneficial ground dwelling invertebrates	\$15,000	Dr. John Tooker Penn State Dr. Tomas Carlo Penn State University Dr. Shelby Fleischer Penn State Dr. Robert Gallagher Penn State University Dr. Timothy Leslie Long Island University - Brooklyn Jeffrey Law Pennsylvania State University

#### ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE support	Project Leaders
<a href="#">ONE19-339</a>	Planting Green Strategies for Maximizing Corn Emergence	\$29,526	Zachary Larson Penn State Extension
<a href="#">ONE19-340</a>	Maximizing Pollination Services for Blueberry Production in Pennsylvania	\$29,990	Margarita Lopez-Urbe
<a href="#">ONE19-346</a>	Producing Quality Poultry Bedding with a Trailer Mounted System	\$29,993	Wesley Ramsey Penn Soil RC&D Council
<a href="#">ONE19-352</a>	Does Artificial Feed Impact Health and Survival of Honey Bee Colonies?	\$22,695	Dr. Robyn Underwood Penn State University
<a href="#">ONE18-319</a>	Effects of Unimproved Equine Manure Stacking on Soil and Groundwater	\$14,795	Rachel Onuska Bucks County Conservation District

	Nutrients at Sites with Seasonally High Water		
<a href="#">ONE18-320</a>	Developing Markets for Warm Season Grass within the Pennsylvania Farm Community	\$14,993	Michael Palko Biomass Renewable Energy LLC
<a href="#">ONE18-309</a>	Small-Scale Production Possibilities for Peanuts in Pennsylvania	\$3,516	Sarah Bay Nawa Tuscarora Organic Growers Cooperative
<a href="#">ONE17-294</a>	Community benchmarks for productivity and profitability for diversified pastured livestock farmers	\$14,326	Dr.Franklin Egan Pennsylvania Association for Sustainable Agriculture
<a href="#">ONE17-307</a>	Crediting cover crops and soil organic matter in a variable rate nitrogen fertilizer prescription	\$14,832	Dr.Charles White Plant Science Department, Penn State
<a href="#">ONE17-308</a>	Evaluating the use of low-input technology for small-scale, no-till organic farming systems	\$14,990	Dr.Gladis Zinati Rodale Institute
<a href="#">ONE16-257</a>	New apple rootstocks' influence on mineral composition of leaves and fruit	\$14,562	Dr.Rob Crassweller Penn State University
<a href="#">ONE16-260</a>	Investigating bat activity in various agricultural landscapes to develop organic insect pest management	\$14,938	Kate Harms Rodale Institute
<a href="#">ONE16-278</a>	Organic weed management using chemically and microbially designed compost extracts	\$14,728	Dr.Gladis Zinati Rodale Institute
<a href="#">ONE16-287c</a>	Promoting cover crops on grain and vegetable farms in Pennsylvania	\$11,111	Dr.Sjoerd Duiker Penn State University
<a href="#">ONE15-232</a>	Increasing farmer participation in local government	\$14,999	Judy Chambers Penn State Extension Adams County
<a href="#">ONE15-240</a>	Using heat recovery ventilation systems in high tunnels to increase winter crop production	\$9,782	Chris Lent National Center for Appropriate Technology (NCAT)
<a href="#">ONE15-239</a>	Development of tools and procedures to improve the consistency of farmstead cheeses	\$14,999	Dr.Kerry Kaylegian Penn State University
<a href="#">ONE15-250</a>	Developing an IPM program against slugs in mid-Atlantic no-till grain fields	\$12,714	Dr.John Tooker Penn State
<a href="#">ONE14-214</a>	Market assessment for Northeast forest-grown mushrooms	\$14,564	Allen Matthews Chatham University
<a href="#">ONE14-224</a>	Evaluating the feasibility, effectiveness and challenges of sprouted grains on grazing dairy farms	\$14,503	Dr.Kathy Soder USDA-ARS
<a href="#">ONE14-225</a>	FARMDATA: An internet-based production record system for vegetable	\$14,689	Matt Steiman Dickinson College Farm

	farm improvement		
<a href="#"><u>ONE13-189</u></a>	Advancing on-farm understanding and application of silvopasture technologies in Pennsylvania	\$14,426	Susan Parry USDA-NRCS
<a href="#"><u>ONE13-194</u></a>	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 Yutzy Penn State Extension
<a href="#"><u>ONE13-174</u></a>	Evaluation of continuous suckling or ewe-rearing strategy by lamb producers	\$14,792	Marlon Knights West Virginia University
<a href="#"><u>ONE13-178</u></a>	Sustainable grass energy pellets for the Northeast	\$14,378	Dr.Daniel Ciolkosz Penn State Ag & Bio Engineerin
<a href="#"><u>ONE13-186</u></a>	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
<a href="#"><u>ONE12-160</u></a>	Dairies Utilizing Mob Grazing in the Northeast	\$14,856	Mena Hautau Penn State Extension
<a href="#"><u>ONE12-166</u></a>	Creating a web-based tool to link farmers with institutional land-lease opportunities	\$15,000	Lisa Mosca Pennsylvania Horticultural Society
<a href="#"><u>ONE12-172</u></a>	Refining the potential for interseeding cover crops in corn	\$14,703	Dr.Gregory Roth Penn State University
<a href="#"><u>ONE11-136</u></a>	A Novel, Laborsaving Trellising System for Grape Tomatoes	\$14,980	Steve Bogash Penn State Cooperative Extension
<a href="#"><u>ONE11-150</u></a>	Native Bee Habitat Rehabilitation; Encouraging greater adoption of sustainable pollination practices – part III	\$14,934	Alexandru Surcica Penn State Cooperative Extension
<a href="#"><u>ONE10-128</u></a>	Assessing Bee Pollination Requirements in Pumpkin	\$14,405	Alexandru Surcica Penn State Cooperative Extension
<a href="#"><u>ONE10-129</u></a>	Native Bee Habitat Rehabilitation; Encouraging Greater Adoption of Sustainable Pollination Practices- Part II	\$14,254	Alexandru Surcica Penn State Cooperative Extension
<a href="#"><u>ONE10-130</u></a>	Maximizing natural enemy-provided control in no-till, field crop systems	\$10,008	Dr.John Tooker Penn State
<a href="#"><u>ONE09-094</u></a>	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
<a href="#"><u>ONE09-097</u></a>	Rolled Down Cover Crop Mulch for Pumpkin and Soybean Production	\$6,857	S. Tianna DuPont Penn State

<a href="#">ONE09-100</a>	Developing an on-farm method to estimate DM loss in corn silage silos	\$9,572	Dr.Kenneth Griswold Kemin AgriFoods North America
<a href="#">ONE09-102</a>	Cultural practices to improve fresh market onion quality and profitability	\$9,969	Christine Hoepfing Cornell Cooperative Extension Vegetable Program
<a href="#">ONE09-107</a>	Native Bee habitat Rehabilitation; Encouraging greater adoption of sustainable pollination practices	\$9,894	Alexandru Surcica Penn State Cooperative Extension
<a href="#">ONE09-093</a>	Advanced Trellis Methods and Mechanical Harvesting for Grape Tomatoes	\$9,815	Steve Bogash Penn State Cooperative Extension
<a href="#">ONE08-079</a>	Improving Pollination through bumblebee habitation; Evaluation of nest box types in bumblebee colonization	\$9,833	Steve Bogash Penn State Cooperative Extension
<a href="#">ONE08-083</a>	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
<a href="#">ONE07-068</a>	Enterprise benchmarks for direct-to-consumer farm marketers	\$9,101	John Berry PSU, Cooperative Extension, Lehigh County
<a href="#">ONE07-075</a>	Improving air quality and dairy profitability through reduced protein feeding	\$9,997	Eugene Schurman Penn State Cooperative Extension
<a href="#">ONE07-076</a>	Tower-hive configuration for the maximization of honey yields and increased efficacy of easy drone brood removal	\$9,461	Dennis vanEngelsdorp University Maryland
<a href="#">ONE07-077</a>	Promoting sustainable crop pollination by wild bees through farmer outreach and education	\$9,330	Neal Williams Bryn Mawr College
<a href="#">ONE05-042</a>	Assessment of regional organic alternative dairy management practices	\$9,225	Dr.Hubert Karreman Penn Dutch Cow Care
<a href="#">ONE05-034</a>	Evaluating two-colony hives for increased productivity and varroa mite control	\$9,744	Maryann Frazier Penn State University
<a href="#">ONE05-035</a>	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
<a href="#">ONE04-019</a>	Pastured Pork Marketing — Cultivating a Meat CSA for Wil-Den Family Farms	\$10,000	David Eson PA Association for Sustainable Agriculture
<a href="#">ONE04-022</a>	Potato Leafhopper Resistant Alfalfa: The Potential for Improving Organic and Traditional Farming Systems	\$10,000	Marvin Hall Penn State University
<a href="#">ONE04-024</a>	Selling Grass-Fed Beef to College Market	\$6,909	Heather House PASA

<a href="#">ONE04-029</a>	Enhancing Dairy Profitability and Reducing Potential Water Pollution Through Lower Dairy Ration Phosphorus Levels	\$9,633	Eugene Schurman Penn State Cooperative Extension
<a href="#">ONE03-008</a>	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
<a href="#">ONE03-010</a>	Sustainable agriculture and forestry demonstration project	\$10,000	Kimberlee Moninger Sustaining Greene County
<a href="#">ONE03-003</a>	Development of attract-and-kill technology against the oriental fruit moth in Pennsylvania apple orchards	\$9,375	M. L. Evenden West Chester University
<a href="#">ONE03-006</a>	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

#### **SUSTAINABLE COMMUNITY INNOVATION GRANTS**

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

#### **PDP STATE PROGRAM GRANTS**

<b>Project #</b>	<b>Project Title</b>	<b>SARE support</b>	<b>Project Leaders</b>
<a href="#">NEPA17-001</a>	Establishing a Service Provider Network for Alternative Grain Crops in Pennsylvania	\$132,668	Dr.Kristy Borrelli The Pennsylvania State University
<a href="#">NEPA14-001</a>	Monitoring and Predicting Ecosystem Functions in Agricultural Systems	\$133,305	Dr.Kristy Borrelli The Pennsylvania State University

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**Total funding from the USDA SARE program to  
Pennsylvania  
\$13,410,989**



For further information on projects, contact Deb Heleba, Northeast SARE communications specialist, at 802-651-8335, ext 552 or [debra.heleba@uvm.edu](mailto:debra.heleba@uvm.edu).

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