



AGRICULTURE PROJECTS FUNDED IN NEW JERSEY

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

New Jersey has been awarded \$3,740,045 grants to support 102 projects, including but not limited to, 19 research and/or education projects, 14 professional development projects and 30 producer-led projects. New Jersey has also received additional SARE support through multi-state projects.

RESEARCH AND EDUCATION GRANTS

Project #	Project Title	SARE support	Project Leaders
LNE18-362	Goldenberries (Physalis peruviana): A New Fruit for CSA Farms and Farmers Markets	\$102,122	Edward Durner Dept. of Plant Biology, Rutgers University
LNE18-364	An Area-Wide Pest Management Program to Improve Honey Bee Health in Blueberry and Cranberry Pollination Services	\$199,975	Dean Polk Rutgers University
LNE08-273	Spatially Based Whole-Farm Integrated Crop Management (ICM) Systems for Northeast Highbush Blueberry Production	\$180,000	Dr.Cesar Rodriguez-Saona Rutgers University
LNE07-253	Mating disruption for the management of oriental beetle in ornamental nurseries: A research and extension effort	\$106,876	Dr.James Lashomb Rutgers University
LNE07-265	An integrated approach to developing nutrient management schemes for container-grown nursery crops	\$106,562	Dr.John Dighton Rutgers University Gladis Zinati Rutgers, The State University
LNE00-132	Alternate Bed Renovation System for Cranberry Production	\$157,506	Nicholi Vorsa Marucci Center for Blueberry & Cranberry Research
LNE99-128	The Green House Project: Sustainable Agriculture in Urban Areas	\$122,315	Ralph Coolman Rutgers University
LNE99-129	Utilization of Community Leaves for Improving Orchard Soil Quality	\$95,535	Robert Belding Rutgers Cooperative Extension, Rutgers University
LNE97-085	Integration of Behavioral, Biological, and Reduced-Risk Chemical Approaches into a Sustainable Insect Management Program for Cranberries	\$133,179	Sridhar Polavarapu Dept. of Entomology, Rutgers University
LNE97-093	Sustainable Phosphorous Fertilizer Recommendations for Corn Production in the Northeast USA	\$92,780	Joseph R. Heckman Rutgers University, Dept of Plant Science
LNE97-095	Flowering Plants to Enhance Biological Control in Landscapes	\$80,344	Paula M. Shrewsbury Rutgers University

<u>LNE96-073</u>	At-Harvest Stalk Nitrate Testing for Sweet Corn	\$4,710	Joseph R. Heckman Rutgers University, Dept of Plant Science
<u>LNE96-074</u>	Peach Orchard Ground Cover Management to Reduce Arthropod Damage	\$55,000	Peter Shearer Rutgers University
<u>LNE95-059</u>	Implementation of a Disease Forecasting System for Tomatoes in Northern New Jersey	\$54,210	Winfred Cowgill Rutgers University
<u>LNE95-056</u>	Presidedress Soil Nitrate Test for Fall Cabbage	\$45,000	Joseph R. Heckman Rutgers University, Dept of Plant Science
<u>LNE95-057</u>	Improving the Profitability & Adaptation of the High-Density Strawberry Production System for the Northeast	\$96,204	Joseph Fiola Rutgers University, Rutgers Fruit Research and Education Center
<u>LNE93-035</u>	Develop Crop Rotational Budgets For Three Cropping Systems in the Northeast	\$60,846	Robin G. Brumfield Ag'l Economics & Marketing, Cook College, Rutgers State U
<u>LNE89-015</u>	Eggplant: A model system for integrating biological control of Colorado potato beetle and Verticillium wilt	\$25,000	Dr. James Lashomb Rutgers University
<u>LNE89-018</u>	Marketability of Low-input Agricultural Produce	\$20,000	Clair S. Liptak Rutgers

PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
<u>ENE19-157</u>	Training Agriculture Service Providers on the Nitty-Gritty Details of No-Till and Cover Crop Practices for Greater Implementation	\$148,966	Bridgett Hilshey North Jersey RC&D
<u>ENE11-121</u>	Development of Extension Programming to Support the Advancement of Agritourism in the Northeast	\$112,616	Dr. Brian Schilling Rutgers University
<u>ENE09-111</u>	Organic vegetable production weed control strategies: Integrating precision cultivation, weed biology and OMRI herbicides	\$89,211	Dr. John Grande Rutgers University
<u>ENE06-096</u>	Matching small-farm crop sprayer application technology with OMRI and traditional agricultural products	\$48,386	Dr. John Grande Rutgers University
<u>ENE04-088</u>	Sustainable Pasture Management for Horses	\$79,100	Dr. Carey Williams Rutgers University Department of Animal Sciences
<u>ENE03-079</u>	An advanced school addressing integrated crop management of highbush blueberries	\$16,550	James Barry Marucci Center for Blueberry and Cranberry Research
<u>ENE02-067</u>	Educating Agricultural Professionals about USDA National Organic Program	\$111,893	Emily Brown Rosen Organic Research Associates

	Requirements and Approved Materials for Certified Organic Crop Production		
ENE01-064	Development of Ethnic & Specialty Vegetable Production & Marketing Resources	\$122,731	Richard VanVranken Rutgers Cooperative Extension - Atlantic County
ENE97-031	Multi-Media Aids and In-Service Training Program for Using Insecticidal Nematodes	\$59,163	Sridhar Polavarapu Dept. of Entomology, Rutgers University
ENE97-035	Review and Evaluation of Educational and Reference Materials Pertaining to Nutrient Management and Soil Health for Sustainable Agriculture Production.	\$7,000	Michelle Infante-Casella Rutgers New Jersey Agricultural Experiment Station Cooperative Extension
ENE96-017	Teaching to Achieve Sustainable Management of Phytophthora Diseases on Horticultural Crops	\$46,500	Jack Rabin Rutgers Cooperative Extension
ENE96-023	Communication and Outreach for Sustainable Agriculture: A Video Training Program for Extension	\$49,998	Billie Jo Hance Center for Env. Comm., Cook College, Rutgers Univ.
ENE95-007	Information Management Training for Integrated Crop and Pest Management	\$59,508	Jack Rabin Rutgers Cooperative Extension
ENE95-014	Promoting Sustainable Agriculture Through a Systems Approach to Consensus Building and Public Policy Education	\$27,098	Edmund Tavernier Dept of Agriculture

FARMER/RANCHER GRANTS

Project #	Project Title	SARE support	Project Leaders
FNE19-931	Cold Storage of Eastern Oysters, <i>Crassostrea virginica</i> , to Reduce Winter Mortality in an Increasingly Variable Environment	\$14,845	Betsy Haskin Betsy's Cape Shore Salts
FNE18-885	Comparison of Five Methods of Crop Thinning in Pinot Noir and their Effects on Fruit Composition and Wine Quality	\$14,871	Michael Beneduce Beneduce Vineyards
FNE18-888	Optimization and Demonstration of Field Nursery Practices for Oyster Seed Cultivation in the Delaware Bay, NJ	\$14,240	Lisa Calvo Sweet Amalia Oyster Farm
FNE18-892	Analyzing the Profitability of Seasonal Wreath Production	\$5,223	Monica Drazba Chickadee Creek Farm
FNE16-853	Examining varieties of alternative grain crop: Malt barley and its efficacy in a double-grain cropping system in New Jersey	\$14,543	Henry Muehlbauer Swampy Vale Farm
FNE15-821	Design and construction of a low-impact amphibious vehicle for efficient and sustainable oyster farming	\$15,000	Gustavo and Lisa Calvo Sweet Amalia Oyster Farm
FNE15-833	A honeybee IPM program for pollinator health in blueberry production	\$15,000	Dennis Wright Fruitwood Orchards Honey Dean Polk Rutgers University

FNE14-807	Evolving cage design for floating oyster farms in Barnegat Bay, NJ	\$11,088	Scott Lennox Forty North Oyster Farms
FNE13-780	Methods to control bio-fouling of cultured eastern oysters, Crassostrea virginica, by the tube-building polychaete worm, Polydora cornuta	\$13,415	Betsy Haskin Betsy's Cape Shore Salts
FNE12-747	Improvement and demonstration of subtidal cage culture methods to cultivate oysters in Delaware Bay, New Jersey	\$14,910	Barney HOLLINGER Elder Point Oyster Company
FNE11-708	The effect of two levels of cluster thinning on crop yield and quality for Cabernet Sauvignon and Cabernet Franc grown in the Eastern US	\$10,220	Dr.Lawrence Coia Coia Vineyards, LLC
FNE11-716	Adaptation and integration of remote setting, selective breeding and triploid production technologies to revitalize oyster culture in Delaware Bay	\$15,000	Thomas Foca Harbor House Seafood, LLC
FNE11-727	Raising fig trees in high tunnels in the Northeast	\$9,799	Maurice sheets woodland Produce
FNE11-729	Improving the Quality of Queen Honey Bees produced in the Northeast by Modifying Standard 10-Frame High Body Boxes	\$14,971	Karoly Toth Toth Apiaries
FNE11-733	Improving Growing Practices for Processing Tomatoes Using Rodale Roller Crimper	\$9,290	Theresa Viggiano First Field LLC
FNE09-672	A Middle Entrance for Beehives II	\$3,984	Dave Stewart
FNE08-646	A middle entrance for beehives	\$4,816	Dave Stewart
FNE04-516	Pre-sidedress Nitrate Test in Pumpkins	\$1,121	Erin Hitchner Grant J. Hitchner Farm
FNE03-476	Creating No-Till Cover in Newly Established Organic Blueberry Blocks	\$6,182	John Marchese Emery's Berry Patch
FNE03-478	An Improved System for Moving and Storing Small Rectangular Bales	\$9,949	Richard McDermott Neptune Farm Company
FNE03-493	Event Marketing	\$6,693	Richard Sisti
FNE03-501	Mobile Poultry Processing Unit	\$4,228	John Wunderlich
FNE02-425	Study of the Chilling Requirements of Four Floracane Raspberry Varieties for	\$6,900	Shirley Kline Happy Valley Berry Farm

	Greenhouse Raspberry Production		
FNE02-439	Multi-Farm Garlic Growers Project	\$2,146	Richard Sisti
FNE00-321	Native spat collectors for obtaining oyster farm seed.	\$4,885	James Tweed
FNE00-297	Adapting a Western style of pruning and tying peach trees in New Jersey to maximize production and tree longevity.	\$4,425	Rolf Decou
FNE00-298	Sorghum as a finishing grain for bison.	\$3,298	Erick Doyle
FNE96-142	Comparison of Drainage Methods for Phytophthora Root Rot Control	\$3,500	Abbott Lee
FNE94-062	Solar Heated Aquaculture System	\$3,313	Garland Michallis
FNE93-019	Small Farm Biogas Production & Use	\$5,096	Ara Lynn Liberty Farm

GRADUATE STUDENT GRANTS

Project #	Project Title	SARE support	Project Leaders
GNE19-212	Increasing Consumer Acceptance of Baby Leafy Greens Grown in a Controlled Environment	\$15,000	Beverly Tepper Regina O'Brien Rutgers University
GNE18-181	Evaluating Native American Hazelnuts for Use as Cold Hardy Pollenizers in European Hazelnut Orchards	\$10,048	Dr. Thomas Molnar Rutgers University Alex Mayberry
GNE17-141	Breeding for thermal tolerance in farmed atlantic surfclams (<i>Spisula solidissima</i>)	\$14,963	Dr. Daphne Munroe Haskin Shellfish Research Lab (Rutgers University) Michael Acquafredda Rutgers University - Haskin Shellfish Research Laboratory
GNE17-149	Roles of rhizobacteria from northeast natural ecosystems in improving crop productivity and stress tolerance	\$14,848	Bingru Huang Rutgers University William Erickson
GNE17-158	Reclamation of nutrients and irrigation waters from livestock wastewater	\$15,000	Ashaki Rouff Rutgers University Newark Alon Rabinovich Rutgers University Newark
GNE17-162	Increasing horse pasture productivity by integrating warm-season grasses into cool-season rotational grazing systems	\$14,997	Carey Williams Rutgers, The State University of New Jersey Jennifer Weinert Rutgers, The State University of New Jersey
GNE16-132	Identifying realized predation on BMSB (<i>Halyomorpha halys</i> , Stål) and host	\$13,639	Anne Nielsen Rutgers University

	plant impacts		John Pote Rutgers University
GNE15-112	Development of a high-resolution surveillance protocol using eDNA for detection of brown marmorated stink bugs	\$14,999	Dr.Julie Lockwood Rutgers University Dr.Dina Fonseca Rutgers University Rafael Valentin Rutgers, The State University of New Jersey
GNE14-084	Evaluating the biological control agent Trichoderma: Enhancement of plant growth and development through biostimulatory volatile treatment	\$10,248	Dr.Joan Bennett Rutgers, The State University of New Jersey Samantha Lee Rutgers, The State University of New Jersey
GNE13-054	Halyomorpha halys in peaches: improved detection for IPM scouting	\$14,850	George Hamilton Rutgers University John Cambridge Rutgers University
GNE13-064	Optimization of adventitious rooting of hazelnut stem cuttings to expedite on-farm commercialization trials	\$8,376	Dr.Thomas Molnar Rutgers University Megan Muehlbauer Rutgers, The State University of New Jersey
GNE13-070	Biological Control of Blueberry Anthracnose and Cranberry Fruit Rot: Exploiting Fungal Responses to Blueberry and Cranberry Bloom in Biocontrol Treatments	\$13,369	Dr.Peter Oudemans Rutgers, The State University Timothy Waller Rutgers University
GNE12-038	Landscape effects on spatial distribution and movement of brown marmorated stink bug in peach orchards	\$14,179	Dr.Cesar Rodriguez-Saona Rutgers University George Hamilton Rutgers University Noel Hahn Rutgers University
GNE11-027	Assessing Nematode Diversity in Natural and Managed Blueberry Habitats	\$14,993	Albrecht Koppenhöfer Rutgers University Dr.Cesar Rodriguez-Saona Rutgers University Monique Rivera Rutgers University
GNE10-003	Improving the Sustainability of Switchgrass Establishment Through the Development of Cultivars with Improved Germination	\$15,000	Dr.Stacy Bonos Rutgers, The State University of New Jersey Laura Cortese Rutgers, The State University of New Jersey

ON FARM RESEARCH/PARTNERSHIP GRANTS

Project #	Project Title	SARE support	Project Leaders
ONE19-345	Cost Benefits of Common Insecticide Practices Used to Prevent Soybean Pest Problems in Delaware	\$29,848	Dean Polk Rutgers University
ONE16-285c	Integrating cover crops for suppression of soil born diseases in blueberries	\$10,000	Dr.Peter Oudemans Rutgers, The State University
ONE15-247	Establishment and marketing of hops production in the mid-Atlantic	\$14,956	James Simon Rutgers University

<u>ONE15-243</u>	Rediscovering the Rutgers tomato	\$14,900	Peter Nitzsche Rutgers Cooperative Extension of Morris County
<u>ONE14-201</u>	Minimizing risks of Vibrio bacteria in farm-raised oysters grown in intertidal environments of the Delaware Bay	\$14,899	Lisa Calvo Haskin Shellfish Reserach Laboratory, Rutgers University
<u>ONE14-217</u>	Bringing IPM and Natural Enemies Back to the Orchard Post-BMSB	\$14,970	Anne Nielsen Rutgers University
<u>ONE13-185</u>	Pepper weevil pathways	\$14,914	Joseph Ingerson-Mahar Rutgers University
<u>ONE13-190</u>	Mating disruption and reduced-risk methods to control peach pests and brown marmorated stink bug	\$14,833	Dean Polk Rutgers University
<u>ONE12-161</u>	Determining pepper weevil pathways	\$14,957	Joseph Ingerson-Mahar Rutgers University
<u>ONE11-151</u>	Impact of Production System and Cultivar on Yields of Roselle (Hybiscus sabdariffa) Leaves and Calyces	\$14,155	Richard VanVranken Rutgers Cooperative Extension - Atlantic County
<u>ONE09-108</u>	Integrating Cover crops into Sustainable Highbush Blueberry Production in New Jersey	\$10,000	Dr.Zsofia Szendrei Michigan State University
<u>ONE09-106</u>	Hazelnuts: A New Sustainable Crop for the Northeastern United States	\$10,000	Dr.Thomas Molnar Rutgers University
<u>ONE08-090</u>	Asian Pears, an alternative crop for Northeast fruit growers – Developing a Plant Growth Regulator Thinning Program to Ensure Profitability	\$9,997	Daniel Ward Rutgers University
<u>ONE08-092</u>	Low-input management practices for container Ericaceous nursery crops	\$9,985	Gladis Zinati Rutgers, The State University Dr.John Dighton Rutgers Universuty
<u>ONE07-078</u>	Evaluating the effects of production system and cultivar on the development of silvering in bell pepper fruit	\$9,860	Nancy Maxwell New Jersey Agricultural Experiment Station Andy Wyenandt New Jersey Agricultural Experiment Station Wesley Kline New Jersey Agricultural Experiment Station
<u>ONE06-054</u>	Increasing the sustainability of northeastern goat farms via the establishment of value-added goat meat products in new, nontraditional markets	\$9,973	H. Louis Cooperhouse Rutgers, The State University of New Jersey
<u>ONE06-066</u>	Evaluating the effects of variety and production system on the development of silvering in bell pepper fruit	\$9,824	Andy Wyenandt New Jersey Agricultural Experiment Station

ONE05-043	Implementation of an integrated peach rusty spot disease management program in commercial orchards	\$10,000	Norman Lalancette Rutgers University
ONE03-016	Ratcheting up commercial organic high-bush blueberry production systems	\$9,380	William Sciarappa Rutgers Cooperative Extension

SUSTAINABLE COMMUNITY INNOVATION GRANTS

Project #	Project Title	SARE support	Project Leaders
CNE12-101	Improving the Sustainability of the Horse Industry through Equine-Related Business Planning	\$14,816	Dr.Carey Williams Rutgers University Department of Animal Sciences
CNE06-009	Seeds to Success Youth Farm Stand project: Using social marketing to increase community presence and create a self-supporting project	\$10,000	Luanne Hughes Rutgers Cooperative Extension

PDP STATE PROGRAM GRANTS

Project #	Project Title	SARE support	Project Leaders
NENJ17-001	Using Demographic Information to Identify Specialty Crop Markets	\$118,050	Michelle Infante-Casella Rutgers New Jersey Agricultural Experiment Station Cooperative Extension
NENJ14-001	On-Farm Direct Marketing SWOT Analysis Training	\$123,880	Michelle Infante-Casella Rutgers New Jersey Agricultural Experiment Station Cooperative Extension

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\$3,740,045**



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

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