What is SARE?

Since 1988, the Sustainable Agriculture Research & Education (SARE) program has been the go-to USDA grants and outreach program for farmers, ranchers, researchers and educators who want to develop innovations that improve farm profitability, protect water and land, and revitalize communities. To date, SARE has awarded over $359 million to more than 8,143 initiatives.

SARE is grassroots with far-reaching impact

Four regional councils of expert practitioners set priorities and make grants in every state and island protectorate.

SARE communicates results

SARE shares project results by requiring grantees to conduct outreach and grower engagement; and by maintaining an online library of practical publications, grantee-produced information products and other educational materials.

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

New Jersey

Project Highlight: Programming Supports Northeast Agritourism

Northeast farmers are relying increasingly on agritourism to expand farm income, create employment for family members and strengthen relationships in the local community. But agritourism also increases a farm’s liability, as farm visitors may be exposed to risks they are not familiar with. Some farmers also lack the experience to market their operation to visitors, make the transition to a retail and hospitality enterprise, and manage the associated risks and liabilities.

In response to these issues, a multistate team of Cooperative Extension faculty, led by Brian Schilling from Rutgers University, used SARE funding to develop a train-the-trainer curriculum on agritourism. Its aim was to equip farm service providers with the knowledge, skills and tools needed to help Northeast farmers minimize risk and liability associated with farm visits, mitigate financial risk, and improve marketing strategies.

The project goal was to train 60 Extension educators and other agricultural service professionals, with at least 30 going on to share information with 200 farmers. But in fact, more than 690 educators and 760 farmers came to this project’s workshops, classroom-style training, webinars and small-group farm assessments throughout New Jersey, Vermont, Delaware, and Maine, surpassing the expected level of participation several times over.

For more information on this project, see sare.org/projects, and search for project number ENE11-121.

SARE in New Jersey

northeast.sare.org/sare-in-your-state/new-jersey

$4,700,550 in total funding

124 grant projects

(since 1988)

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

www.sare.org
SARE Grants in New Jersey

Total awards: 124 grants
- 22 Research and Education
- 2 Sustainable Community Innovation
- 15 Professional Development Program
- 37 Farmer/Rancher
- 23 Graduate Student
- 21 On Farm Research/Partnership
- 4 Research Only

Total funding: $4,700,550

- $1,875,983 Research and Education
- $24,816 Sustainable Community Innovation
- $1,114,179 Professional Development Program
- $379,398 Farmer/Rancher
- $324,003 Graduate Student
- $290,896 On Farm Research/Partnership
- $691,275 Research Only

Find a complete list of projects on page 3.

SARE's Impact

53 percent of producers report using a new production technique after reading a SARE publication.

79 percent of producers said they improved soil quality through their SARE project.

64 percent of producers said their SARE project helped them achieve higher sales.

Learn about local impacts at: northeast.sare.org/sare-in-your-state/new-jersey

Contact Your SARE State Coordinator

SARE sustainable ag coordinators run state-level educational programs for Extension and other ag professionals, and many help grant applicants and recipients with planning and outreach. Visit northeast.sare.org/state-pages/new-jersey to learn more.

Michelle Infante-Casella
Rutgers University of New Jersey
85622410361
minfante@njaes.rutgers.edu

Stephen Komar
Rutgers University of New Jersey
(973) 948-3040
komar@njaes.rutgers.edu

For detailed information on SARE projects, go to www.SARE.org

SARE is funded by the USDA’s National Institute of Food and Agriculture (NIFA).

This report includes summaries of competitive grant programs only. Some competitive grant programs that are no longer offered may be included or excluded from the totals in this report depending on the grant program and SARE region.
New Jersey has been awarded $4,700,550 grants to support 122 projects, including but not limited to, 20 research and/or education projects, 15 professional development projects and 37 producer-led projects. New Jersey has also received additional SARE support through multi-state projects.

### RESEARCH AND EDUCATION GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNE20-395</td>
<td>Empowering Northeastern Strawberry Growers With Flower Mapping</td>
<td>$137,819</td>
<td>Edward Durner&lt;br&gt;Dept. of Plant Biology, Rutgers University</td>
</tr>
<tr>
<td>LNE18-362</td>
<td>Goldenberries (Physalis peruviana): A New Fruit for CSA Farms and Farmers Markets</td>
<td>$102,122</td>
<td>Edward Durner&lt;br&gt;Dept. of Plant Biology, Rutgers University</td>
</tr>
<tr>
<td>LNE18-364</td>
<td>An Area-Wide Pest Management Program to Improve Honey Bee Health in Blueberry and Cranberry Pollination Services</td>
<td>$199,975</td>
<td>Dean Polk&lt;br&gt;Rutgers University</td>
</tr>
<tr>
<td>LNE08-273</td>
<td>Spatially Based Whole-Farm Integrated Crop Management (ICM) Systems for Northeast Highbush Blueberry Production</td>
<td>$180,000</td>
<td>Dr. Cesar Rodriguez-Saona&lt;br&gt;Rutgers University</td>
</tr>
<tr>
<td>LNE07-253</td>
<td>Mating disruption for the management of oriental beetle in ornamental nurseries: A research and extension effort</td>
<td>$106,876</td>
<td>Dr. James Lashomb&lt;br&gt;Rutgers University</td>
</tr>
<tr>
<td>LNE07-265</td>
<td>An integrated approach to developing nutrient management schemes for container-grown nursery crops</td>
<td>$106,562</td>
<td>Dr. John Dighton&lt;br&gt;Rutgers University&lt;br&gt;Gladis Zinati&lt;br&gt;Rutgers, The State University</td>
</tr>
<tr>
<td>LNE00-132</td>
<td>Alternate Bed Renovation System for Cranberry Production</td>
<td>$157,506</td>
<td>Nicholi Vorsa&lt;br&gt;Marucci Center for Blueberry &amp; Cranberry Research</td>
</tr>
<tr>
<td>LNE99-128</td>
<td>The Green House Project: Sustainable Agriculture in Urban Areas</td>
<td>$122,315</td>
<td>Ralph Coolman&lt;br&gt;Rutgers University</td>
</tr>
<tr>
<td>LNE99-129</td>
<td>Utilization of Community Leaves for Improving Orchard Soil Quality</td>
<td>$95,535</td>
<td>Robert Belding&lt;br&gt;Rutgers Cooperative Extension, Rutgers University</td>
</tr>
<tr>
<td>LNE97-085</td>
<td>Integration of Behavioral, Biological, and Reduced-Risk Chemical Approaches into a Sustainable Insect Management Program for Cranberries</td>
<td>$133,179</td>
<td>Sridhar Polavarapu&lt;br&gt;Dept. of Entomology, Rutgers University</td>
</tr>
<tr>
<td>LNE97-093</td>
<td>Sustainable Phosphorous Fertilizer Recommendations for Corn Production in the Northeast USA</td>
<td>$92,780</td>
<td>Joseph R. Heckman&lt;br&gt;Rutgers University, Dept of Plant Science</td>
</tr>
<tr>
<td>LNE97-095</td>
<td>Flowering Plants to Enhance Biological Control in Landscapes</td>
<td>$80,344</td>
<td>Paula M. Shrewsbury&lt;br&gt;Rutgers University</td>
</tr>
<tr>
<td>Project #</td>
<td>Project Title</td>
<td>SARE Support</td>
<td>Project Leaders</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>--------------</td>
<td>---------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>LNE22-455R</td>
<td>Exploring Novel Natural Products for the Development of Push-Pull Systems to Manage Spotted-Wing Drosophila</td>
<td>$299,868</td>
<td>Dr. Cesar Rodriguez-Saona, Rutgers University</td>
</tr>
<tr>
<td>LNE22-449R</td>
<td>Foliar Nickel Fertilizer Nutrition to Enhance Cranberry Yield and Decrease Fungicide Use</td>
<td>$199,993</td>
<td>Joseph Heckman, Rutgers, The State University of New Jersey</td>
</tr>
<tr>
<td>LNE20-407R</td>
<td>Reducing Water and Fertilizer Inputs by Incorporating Native Beneficial Bacteria in Sustainable Turfgrass Sod Production</td>
<td>$149,910</td>
<td>Dr. Bingru Huang, PhD, Rutgers University, William Errickson, Rutgers University</td>
</tr>
<tr>
<td>LNE18-369R</td>
<td>Extend and Maximize Postharvest Quality of Strawberry</td>
<td>$41,504</td>
<td>Thomas Gianfagna, Rutgers University</td>
</tr>
</tbody>
</table>

**RESEARCH ONLY GRANTS**

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

**PROFESSIONAL DEVELOPMENT PROGRAM GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENE22-174</td>
<td>The Greater Newark Sustainable Farming Practices and Local Entrepreneurship Program</td>
<td>$135,459</td>
<td>Alexandra Chang, Rutgers University-Newark</td>
</tr>
<tr>
<td>ENE19-157</td>
<td>Training Agriculture Service Providers on the Nitty-Gritty Details of No-Till and Cover Crop Practices for Greater Implementation</td>
<td>$148,966</td>
<td>Bridgett Hilshy, North Jersey RC&amp;D</td>
</tr>
<tr>
<td>ENE11-121</td>
<td>Development of Extension Programming to Support the Advancement of Agritourism in the Northeast</td>
<td>$112,616</td>
<td>Dr. Brian Schilling, Rutgers University</td>
</tr>
<tr>
<td>Project #</td>
<td>Project Title</td>
<td>SARE Support</td>
<td>Project Leaders</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>--------------</td>
<td>---------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>ENE09-111</td>
<td>Organic vegetable production weed control strategies: Integrating precision cultivation, weed biology and OMRI herbicides</td>
<td>$89,211</td>
<td>Dr. John Grande, Rutgers University</td>
</tr>
<tr>
<td>ENE06-096</td>
<td>Matching small-farm crop sprayer application technology with OMRI and traditional agricultural products</td>
<td>$48,386</td>
<td>Dr. John Grande, Rutgers University</td>
</tr>
<tr>
<td>ENE04-088</td>
<td>Sustainable Pasture Management for Horses</td>
<td>$79,100</td>
<td>Dr. Carey Williams, Rutgers University Department of Animal Sciences</td>
</tr>
<tr>
<td>ENE03-079</td>
<td>An advanced school addressing integrated crop management of highbush blueberries</td>
<td>$16,550</td>
<td>James Barry, Marucci Center for Blueberry and Cranberry Research</td>
</tr>
<tr>
<td>ENE01-064</td>
<td>Development of Ethnic &amp; Specialty Vegetable Production &amp; Marketing Resources</td>
<td>$122,731</td>
<td>Richard VanVranken, Rutgers Cooperative Extension - Atlantic County</td>
</tr>
<tr>
<td>ENE97-031</td>
<td>Multi-Media Aids and In-Service Training Program for Using Insecticidal Nematodes</td>
<td>$59,163</td>
<td>Sridhar Polavarapu, Dept. of Entomology, Rutgers University</td>
</tr>
<tr>
<td>ENE97-035</td>
<td>Review and Evaluation of Educational and Reference Materials Pertaining to Nutrient Management and Soil Health for Sustainable Agriculture Production.</td>
<td>$7,000</td>
<td>Michelle Infante-Casella, Rutgers New Jersey Agricultural Experiment Station Cooperative Extension</td>
</tr>
<tr>
<td>ENE96-017</td>
<td>Teaching to Achieve Sustainable Management of Phytophthora Diseases on Horticultural Crops</td>
<td>$46,500</td>
<td>Jack Rabin, Rutgers Cooperative Extension</td>
</tr>
<tr>
<td>ENE96-023</td>
<td>Communication and Outreach for Sustainable Agriculture: A Video Training Program for Extension</td>
<td>$49,998</td>
<td>Billie Jo Hance, Center for Env. Comm., Cook College, Rutgers Univ.</td>
</tr>
<tr>
<td>ENE95-007</td>
<td>Information Management Training for Integrated Crop and Pest Management</td>
<td>$59,508</td>
<td>Jack Rabin, Rutgers Cooperative Extension</td>
</tr>
<tr>
<td>ENE95-014</td>
<td>Promoting Sustainable Agriculture Through a Systems Approach to Consensus Building and Public Policy Education</td>
<td>$27,098</td>
<td>Edmund Tavernier, Dept of Agriculture</td>
</tr>
</tbody>
</table>

**FARMER/RANCHER GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNE22-003</td>
<td>Techniques for Growing and Overwintering Japanese Fig Tree Espalier in the Northeast</td>
<td>$30,000</td>
<td>Craig Boyer, Boyer Holdings LLC</td>
</tr>
<tr>
<td>FNE22-011</td>
<td>Grafting Heritage African Eggplants for Disease Control and Enhanced Production</td>
<td>$26,000</td>
<td>Morris Gbolo, World Crops Farm</td>
</tr>
<tr>
<td>FNE21-974</td>
<td>Exotic Wild Mushroom Outdoor Cultivation</td>
<td>$7,590</td>
<td>Sergio Campos, Merrick Farm</td>
</tr>
<tr>
<td>FNE21-979</td>
<td>Demonstration Pilot for Composting of Manure, Wood Chips and Leaves on a Certified-Organic Produce Farm via Aerated Static Pile Composting</td>
<td>$11,133</td>
<td>Sherry Dudas, Honey Brook Organic Farm</td>
</tr>
<tr>
<td>Proposal Number</td>
<td>Title</td>
<td>Funding</td>
<td>Principal Investigator(s)</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------------------------------------------------------------------</td>
<td>---------</td>
<td>--------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| FNE21-983       | Testing the Efficacy of a Hybrid Floating Bag and Bottom Planting Method to Grow Oysters | $11,912 | Matthew Gregg  
Forty North Oyster Farms  
Amelia Stanley  
Stockton University and Forty North Oyster Farms |
| FNE21-985       | Mobile Oyster Aquaculture Farming Unit                               | $14,999 | TODD KOSTKA  
Brigantine Oyster Company |
| FNE20-952       | Chemical-Free Vineyards                                              | $14,813 | Steve and Audrey Gambino  
Villa Milagro Vineyards |
| FNE19-931       | Cold Storage of Eastern Oysters, Crassostrea virginica, 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 | Matthew Gregg  
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 |
<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNE11-729</td>
<td>Improving the Quality of Queen Honey Bees produced in the Northeast by Modifying Standard 10-Frame High Body Boxes</td>
<td>$14,971</td>
<td>Karoly Toth Toth Apiaries</td>
</tr>
<tr>
<td>FNE11-733</td>
<td>Improving Growing Practices for Processing Tomatoes Using Rodale Roller Crimper</td>
<td>$9,290</td>
<td>Theresa Viggiano First Field LLC</td>
</tr>
<tr>
<td>FNE09-672</td>
<td>A Middle Entrance for Beehives II</td>
<td>$3,984</td>
<td>Dave Stewart</td>
</tr>
<tr>
<td>FNE08-646</td>
<td>A middle entrance for beehives</td>
<td>$4,816</td>
<td>Dave Stewart</td>
</tr>
<tr>
<td>FNE04-516</td>
<td>Pre-sidedress Nitrate Test in Pumpkins</td>
<td>$1,121</td>
<td>Erin Hitchner Grant J. Hitchner Farm</td>
</tr>
<tr>
<td>FNE03-476</td>
<td>Creating No-Till Cover in Newly Established Organic Blueberry Blocks</td>
<td>$6,182</td>
<td>John Marchese Emery's Berry Patch</td>
</tr>
<tr>
<td>FNE03-478</td>
<td>An Improved System for Moving and Storing Small Rectangular Bales</td>
<td>$9,949</td>
<td>Richard McDermott Neptune Farm Company</td>
</tr>
<tr>
<td>FNE03-493</td>
<td>Event Marketing</td>
<td>$6,693</td>
<td>Richard Sisti</td>
</tr>
<tr>
<td>FNE03-501</td>
<td>Mobile Poultry Processing Unit</td>
<td>$4,228</td>
<td>John Wunderlich</td>
</tr>
<tr>
<td>FNE02-425</td>
<td>Study of the Chilling Requirements of Four Floracane Raspberry Varieties for Greenhouse Raspberry Production</td>
<td>$6,900</td>
<td>Shirley Kline Happy Valley Berry Farm</td>
</tr>
<tr>
<td>FNE02-439</td>
<td>Multi-Farm Garlic Growers Project</td>
<td>$2,146</td>
<td>Richard Sisti</td>
</tr>
<tr>
<td>FNE00-297</td>
<td>Adapting a Western style of pruning and tying peach trees in New Jersey to maximize production and tree longevity.</td>
<td>$4,425</td>
<td>Rolf Decou</td>
</tr>
<tr>
<td>FNE00-298</td>
<td>Sorghum as a finishing grain for bison.</td>
<td>$3,298</td>
<td>Erick Doyle</td>
</tr>
<tr>
<td>FNE00-321</td>
<td>Native spat collectors for obtaining oyster farm seed.</td>
<td>$4,885</td>
<td>James Tweed</td>
</tr>
<tr>
<td>FNE96-142</td>
<td>Comparison of Drainage Methods for Phytophthora Root Rot Control</td>
<td>$3,500</td>
<td>Abbott Lee</td>
</tr>
<tr>
<td>FNE94-062</td>
<td>Solar Heated Aquaculture System</td>
<td>$3,313</td>
<td>Garland Michallis</td>
</tr>
<tr>
<td>FNE93-019</td>
<td>Small Farm Biogas Production &amp; Use</td>
<td>$5,096</td>
<td>Ara Lynn Liberty Farm</td>
</tr>
</tbody>
</table>
GNE22-288  Insecticide Efficacy Trial in Vineyards Against Spotted Lanternfly Adults.
Anne Nielsen
Rutgers University
Katarzyna Madalinska
Rutgers University
$14,969

Dr. James Simon
Rutgers University
Tori Rosen
Rutgers University
$14,685

GNE22-305  Monitoring beneficial insects with plant volatiles: a landscape approach
Dr. Cesar Rodriguez-Saona
Rutgers University
Yahel Ben-Zvi
Rutgers University
$14,984

GNE22-292  Surveying an insect collection from a 17th-century Northeastern agrarian settlement to determine changes in beneficial insects, pests, and climate
George Hamilton
Rutgers University
Michael Monzon
Rutgers University, New Jersey Agricultural Experiment Station
$14,859

GNE22-306  Influences of habitat-level crop diversity on community dynamics of pentatomids and their parasitoids in New Jersey
Anne Nielsen
Rutgers University
Emma Waltman
Rutgers University
$15,000

GNE21-273  Development of Value-added Healthy Meal Solutions in Functional Recyclable Packaging to Rebrand and Increase Marketability of New Jersey Squashes
Dr. Kit Yam
Rutgers University
Shuo Yuan
Rutgers University
$14,997

GNE20-226  Honey Bee Responses to Blueberry Fungicides and Varroa Miticides While Used in NJ Blueberry Pollination Services
Dean Polk
Rutgers University
Chelsea Abegg
Rutgers, The State University of New Jersey
$15,000

GNE20-246  Developing a Thermal Shock Method to Control Disease and Biofouling on Oyster Farms
Dr. David Bushek, PhD
Haskin Shellfish Research Laboratory, Rutgers University
Heidi Yeh
Rutgers, the State University of New Jersey
$15,000

GNE19-212  Increasing Consumer Acceptance of Baby Leafy Greens Grown in a Controlled Environment
Dr. Beverly Tepper
Rutgers University
Regina O'Brien
Rutgers University
$15,000

GNE18-181  Evaluating Native American Hazelnuts for Use as Cold Hardy Pollenizers in European Hazelnut Orchards
Dr. Thomas Molnar
Rutgers University
Alex Mayberry
Rutgers University
$10,048

GNE17-141  Breeding for thermal tolerance in farmed atlantic surfclams (Spisula solidissima)
Dr. Daphne Munroe
Haskin Shellfish Research Lab (Rutgers University)
Michael Acquafredda
NOAA NEFSC
$14,963

GNE17-149  Roles of rhizobacteria from northeast natural ecosystems in improving crop productivity and stress tolerance
Bingru Huang
Rutgers University
William Errickson
Rutgers University
$14,848

GNE17-158  Reclamation of nutrients and irrigation waters from livestock wastewater
Ashaki Rouff
Rutgers University Newark
Alon Rabinovich
Rutgers University Newark
$15,000

GNE17-162  Increasing horse pasture productivity by integrating warm-season grasses into cool-season rotational grazing systems
Dr. Carey Williams
Rutgers, The State University of New Jersey
Jennifer Weinert
Rutgers, The State University of New Jersey
$14,997
GNE16-132  Identifying realized predation on BMSB (Halyomorpha halys, Stål) and host plant impacts  $13,639  Anne Nielsen  Rutgers University  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  Dr. Timothy Wailer  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

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| ONE20-371 | Efficacy of Whole Herbs on Controlling Gastrointestinal Nematodes in an Alpaca Fiber Operation | $13,448 | Dr. Erin Masur, DVM  
Fork You Farms, LLC  
Dr. Alexia Tsakiris  
Blue Sage Veterinary Wellness Center |
| ONE20-373 | Application of Shell Hash Cover as a Deterrent of Cownose Ray Predation on Hard Clam Farms | $29,997 | Dr. Daphne Munroe  
Haskin Shellfish Research Lab (Rutgers University) |
| ONE19-345 | Alternative and Organic Management Practices to Control Oriental Beetle in Commercial Blueberries | $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 |
<table>
<thead>
<tr>
<th>Project Code</th>
<th>Project Title</th>
<th>Funding</th>
<th>Investigator(s)</th>
</tr>
</thead>
</table>
| ONE15-243    | Rediscovering the Rutgers tomato                                                                      | $14,900 | Peter Nitzsche  
Rutgers Cooperative Extension of Morris County |
| ONE15-247    | Establishment and marketing of hops production in the mid-Atlantic                                     | $14,956 | James Simon  
Rutgers University |
| ONE14-201    | Minimizing risks of Vibrio bacteria in farm-raised oysters grown in intertidal environments of the Delaware Bay | $14,899 | Lisa Calvo  
Haskin Shellfish Research Laboratory, Rutgers University |
| ONE14-217    | Bringing IPM and Natural Enemies Back to the Orchard Post-BMSB                                        | $14,970 | Anne Nielsen  
Rutgers University |
| ONE13-185    | Pepper weevil pathways                                                                                | $14,914 | Joseph Ingerson-Mahar  
Rutgers University |
| ONE13-190    | Mating disruption and reduced-risk methods to control peach pests and brown marmorated stink bug      | $14,833 | Dean Polk  
Rutgers University |
| ONE12-161    | Determining pepper weevil pathways                                                                     | $14,957 | Joseph Ingerson-Mahar  
Rutgers University |
| ONE11-151    | Impact of Production System and Cultivar on Yields of Roselle (Hybiscus sabdariffa) Leaves and Calyces | $14,155 | Richard VanVranken  
Rutgers Cooperative Extension - Atlantic County |
| ONE09-106    | Hazelnuts: A New Sustainable Crop for the Northeastern United States                                   | $10,000 | Dr. Thomas Molnar  
Rutgers University |
| ONE09-108    | Integrating Cover crops into Sustainable Highbush Blueberry Production in New Jersey                  | $10,000 | Dr. Zsofia Szendrei  
Michigan State University |
| ONE08-090    | 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 |
| ONE08-092    | Low-input management practices for container Ericaceous nursery crops                                 | $9,985  | Gladis Zinati  
Rutgers, The State University  
Dr. John Dighton  
Rutgers University |
| ONE07-078    | 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 |
| ONE06-054    | 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 |
| ONE06-066    | 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 |
Ratcheting up commercial organic high-bush blueberry production systems

**SUSTAINABLE COMMUNITY INNOVATION GRANTS**

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

Total funding from the USDA SARE program to New Jersey
$4,700,550

For further information on projects, contact 802-651-8335 or nesare@uvm.edu. Sustainable Agriculture Research and Education (SARE) is funded by USDA’s National Institute of Food and Agriculture (NIFA).