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 $404 million to more than 8,776 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, granteeproduced information products and other educational materials.

www.sare.org

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

New Jersey

Project Highlight: Reduced-Tillage and Tarping for Small Scale Commercial Potato Growing in New York

Nook & Cranny Farm in Brooktondale, New York, participated in a research project to assess the effects of reduced tillage, tarping and mulching on potato production. To grow potatoes, most farmers depend heavily on tillage for soil preparation and weed management despite the potential negative impacts that deep tillage can have on soil health. Recently, a new method called tarping has gained a lot of attention from potato farmers due to its potential to improve soil health, reduce labor costs and increase productivity. Since tarping is a relatively new method, many farmers do not know how to successfully integrate it into their crop rotation. This inspired Dr. Tuori, the head of Nook & Cranny Farm, to conduct a series of experiments that explore the short- and long-term benefits of tarping on small-scale commercial farms.

Dr. Tuori and his team planted potatoes in a reduced-tillage strip and compared three experimental growing methods: tarping with mulching, tarping without mulching and no tarping with mulching. The researchers analyzed the effects of the different growing methods by measuring biological indicators of the soil. Ultimately, the experiments indicated that the tarping method offers a more environmentally sustainable approach to small-scale potato production than conventional tillage and hilling methods. This research shows that when done correctly, tarping is an accessible and versatile tool that small-scale farmers can use to produce a marketable potato yield while also fostering healthy soils.

For more information on this project, see sare.org/projects and search for project number FNE21-995.

SARE in New Jersey

northeast.sare.org/state-profiles/new-jersey/

$1,475,926 in total funding

33 grant project

(since 1988)

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

Grants awarded 2019–2024

Total awards: **33 grants**

- 15 Farmer/Rancher
- 1 Research and Education
- 2 Professional Development Program
- 3 On Farm Research/Partnership
- 9 Graduate Student
- 3 Research Only

Total funding: **$1,475,926**

- $296,130 Farmer/Rancher
- $137,819 Research and Education
- $284,425 Professional Development Program
- $73,293 On Farm Research/Partnership
- $134,494 Graduate Student
- $549,765 Research Only

Find a complete list of projects on page 3.

Farmer and rancher impacts 2019–2024

SARE grantees have reported the following impacts from their projects:

- **4,937 farmers participated in a SARE-funded project**
- **445 farmers reported a change in knowledge, awareness, skills or attitude**
- **94 farmers changed a practice**

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-profiles/new-jersey/ to learn more.

Michelle Infante-Casella
Rutgers University of New Jersey
856-224-1036
minfante@njaes.rutgers.edu

Stephen John 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 $4,765,382 grants to support 129 projects, including but not limited to, 20 research and/or education projects, 15 professional development projects and 44 producer-led projects. New Jersey has also received additional SARE support through multi-state projects.

<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 Dept. of Plant Biology, Rutgers University</td>
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<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 Dept. of Plant Biology, Rutgers University</td>
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<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 Rutgers University</td>
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<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 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 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 Rutgers University Gladis Zinati Rutgers, The State University</td>
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<tr>
<td>LNE00-132</td>
<td>Alternate Bed Renovation System for Cranberry Production</td>
<td>$157,506</td>
<td>Nicholi Vorsa Marucci Center for Blueberry &amp; Cranberry Research</td>
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<tr>
<td>LNE99-128</td>
<td>The Green House Project: Sustainable Agriculture in Urban Areas</td>
<td>$122,315</td>
<td>Ralph Coolman Rutgers University</td>
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<tr>
<td>LNE99-129</td>
<td>Utilization of Community Leaves for Improving Orchard Soil Quality</td>
<td>$95,535</td>
<td>Robert Belding Rutgers Cooperative Extension, Rutgers University</td>
</tr>
<tr>
<td>Project #</td>
<td>Project Title</td>
<td>SARE Support</td>
<td>Project Leaders</td>
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</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 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 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 Rutgers University</td>
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<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>
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<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>
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<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>
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<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>
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<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>
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<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>
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<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>
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<tr>
<td>LNE89-018</td>
<td>Marketability of Low-input Agricultural Produce</td>
<td>$20,000</td>
<td>Clair S. Liptak Rutgers University</td>
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</table>

**RESEARCH ONLY GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
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<tbody>
<tr>
<td>LNE22-455R</td>
<td>Exploring Novel Natural Products for the Development of Push-Pull Systems to Manage Spotted-Wing Drosophila</td>
<td>$199,868</td>
<td>Dr.Cesar Rodriguez-Saona Rutgers University</td>
</tr>
<tr>
<td>Project #</td>
<td>Project Title</td>
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<td>Project Leaders</td>
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</tr>
</tbody>
</table>
| LNE22-449R | Foliar Nickel Fertilizer Nutrition to Enhance Cranberry Yield and Decrease Fungicide Use | $199,987     | Joseph Heckman  
Rutgers, The State University of New Jersey |
| LNE20-407R | Reducing Water and Fertilizer Inputs by Incorporating Native Beneficial Bacteria in Sustainable Turfgrass Sod Production | $149,910     | Dr.Bingru Huang, PhD  
Rutgers University  
William Errickson  
Rutgers University |
| LNE18-369R | Extend and Maximize Postharvest Quality of Strawberry                          | $41,504      | Thomas Gianfagna  
Rutgers University |

### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| ENE22-174  | The Greater Newark Sustainable Farming Practices and Local Entrepreneurship Program | $135,459     | Alexandra Chang  
Rutgers University-Newark |
| ENE19-157  | 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 |
| ENE11-121  | Development of Extension Programming to Support the Advancement of Agritourism in the Northeast | $112,616     | Dr.Brian Schilling  
Rutgers University |
| ENE09-111  | Organic vegetable production weed control strategies: Integrating precision cultivation,weed biology and OMRI herbicides | $89,211      | Dr.John Grande  
Rutgers University |
| ENE06-096  | Matching small-farm crop sprayer application technology with OMRI and traditional agricultural products | $48,386      | Dr.John Grande  
Rutgers University |
| ENE04-088  | Sustainable Pasture Management for Horses                                     | $79,100      | Dr.Carey Williams  
Rutgers University Department of Animal Sciences |
| ENE03-079  | An advanced school addressing integrated crop management of highbush blueberries | $16,550      | James Barry  
Marucci Center for Blueberry and Cranberry Research |
### FARMER/RANCHER GRANTS

<table>
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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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</thead>
<tbody>
<tr>
<td>FNE24-072</td>
<td>Combating Extreme Climate Events in High Tunnel Raspberry Production While Analyzing Methods for Organic Weed Control</td>
<td>$30,000</td>
<td>Rebekah Alstede Modery</td>
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<td></td>
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<td>Alstede Farms LLC</td>
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<td></td>
<td></td>
<td></td>
<td>Colin Manning</td>
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<td>Alstede Farms LLC</td>
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<tr>
<td>FNE24-087</td>
<td>Evaluating Local Cut Flowers for the December Holidays: Horticultural Best Practices, Marketability, and Profitability</td>
<td>$29,825</td>
<td>Rebecca Kutzer-Rice</td>
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<td></td>
<td>Moonshot Farm, LLC</td>
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<tr>
<td>Project Number</td>
<td>Title</td>
<td>Funding</td>
<td>Principal Investigator(s)</td>
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</table>
| FNE24-092      | Farming To Improve Health, Increase Education and Promote Food Access Among Underserved Farmers, Students, and Adults Near Food Desert, Camden, NJ. | $15,011 | Cyara Phillips  
Tuba Farm Foundation  
Muhammad Khan  
Tuba Farm Foundation  
Cyara Phillips  
Tuba Farm Foundation |
| FNE24-091      | Potential Influence of Phytoplankton Communities on the Growth of Farmed M. mercenaria in Southern New Jersey: A Pilot Study | $24,759 | Dale Parsons  
Parsons Seafood and Mariculture  
Colleen Ebert  
Parsons Seafood and Mariculture |
| FNE24-096      | Ginger Production in the Northeast: Increasing Profitability and Success with Intercropping in Variable Growing Environments | $20,907 | Alex Sawatzky  
Rutgers University |
| FNE23-038      | Evaluation of Elevated Rack Height to Control Biofouling on an Intertidal Oyster Farm: Efficacy and Economics | $20,088 | Lisa Calvo  
Sweet Amalia Oyster Farm |
| FNE23-056      | Testing Practical Bird Deterrents for Floating Oyster Aquaculture     | $29,332 | Scott Lennox  
Barnegat Oyster Holdings |
| FNE23-036      | Evaluating On Farm Leaf Composting Methods and the Impacts of Composted Leaves on Germination and Weed Suppression in Rye, Corn and Pumpkins | $24,916 | Bradley Burke  
Longmeadow Farm |
| FNE22-011      | Grafting Heritage African Eggplants for Disease Control and Enhanced Production | $26,000 | Morris Gbolo  
World Crops Farm |
| FNE21-974      | Exotic Wild Mushroom Outdoor Cultivation                              | $7,590  | Sergio Campos  
Merrick Farm |
| FNE21-979      | Demonstration Pilot for Composting of Manure, Wood Chips and Leaves on a Certified-Organic Produce Farm via Aerated Static Pile Composting | $11,133 | Sherry Dudas  
Honey Brook Organic Farm |
| 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 |
<table>
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<tr>
<th>Proposal Number</th>
<th>Project Title</th>
<th>Budget</th>
<th>Principal Investigator(s)</th>
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<tbody>
<tr>
<td>FNE20-952</td>
<td>Chemical-Free Vineyards</td>
<td>$14,813</td>
<td>Steve and Audrey Gambino&lt;br&gt;Villa Milagro Vineyards</td>
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<tr>
<td>FNE19-931</td>
<td>Cold Storage of Eastern Oysters, <em>Crassostrea virginica</em>, to Reduce Winter Mortality in an Increasingly Variable Environment</td>
<td>$14,845</td>
<td>Betsy Haskin&lt;br&gt;Betsy's Cape Shore Salts</td>
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<tr>
<td>FNE18-885</td>
<td>Comparison of Five Methods of Crop Thinning in Pinot Noir and their Effects on Fruit Composition and Wine Quality</td>
<td>$14,871</td>
<td>Michael Beneduce&lt;br&gt;Beneduce Vineyards</td>
</tr>
<tr>
<td>FNE18-888</td>
<td>Optimization and Demonstration of Field Nursery Practices for Oyster Seed Cultivation in the Delaware Bay, NJ</td>
<td>$14,240</td>
<td>Lisa Calvo&lt;br&gt;Sweet Amalia Oyster Farm</td>
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<tr>
<td>FNE18-892</td>
<td>Analyzing the Profitability of Seasonal Wreath Production</td>
<td>$5,223</td>
<td>Monica Drazba&lt;br&gt;Chickadee Creek Farm</td>
</tr>
<tr>
<td>FNE16-853</td>
<td>Examining varieties of alternative grain crop: Malt barley and its efficacy in a double-grain cropping system in New Jersey</td>
<td>$14,543</td>
<td>Henry Muehlbauer&lt;br&gt;Swampy Vale Farm</td>
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<tr>
<td>FNE15-821</td>
<td>Design and construction of a low-impact amphibious vehicle for efficient and sustainable oyster farming</td>
<td>$15,000</td>
<td>Gustavo and Lisa Calvo&lt;br&gt;Sweet Amalia Oyster Farm</td>
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<tr>
<td>FNE15-833</td>
<td>A honeybee IPM program for pollinator health in blueberry production</td>
<td>$15,000</td>
<td>Dennis Wright&lt;br&gt;Fruitwood Orchards Honey&lt;br&gt;Dean Polk&lt;br&gt;Rutgers University</td>
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<tr>
<td>FNE14-807</td>
<td>Evolving cage design for floating oyster farms in Barnegat Bay, NJ</td>
<td>$11,088</td>
<td>Matthew Gregg&lt;br&gt;Forty North Oyster Farms</td>
</tr>
<tr>
<td>FNE13-780</td>
<td>Methods to control bio-fouling of cultured eastern oysters, <em>Crassostrea virginica</em>, by the tube-building polychaete worm, <em>Polydora cornuta</em></td>
<td>$13,415</td>
<td>Betsy Haskin&lt;br&gt;Betsy's Cape Shore Salts</td>
</tr>
<tr>
<td>FNE12-747</td>
<td>Improvement and demonstration of subtidal cage culture methods to cultivate oysters in Delaware Bay, New Jersey</td>
<td>$14,910</td>
<td>Barney HOLLINGER&lt;br&gt;Elder Point Oyster Company</td>
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<tr>
<td>Project Code</td>
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<td>Amount</td>
<td>Principal Investigator</td>
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<tr>
<td>FNE11-708</td>
<td>The effect of two levels of cluster thinning on crop yield and quality for</td>
<td>$10,220</td>
<td>Dr. Lawrence Coia</td>
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<td>Cabernet Sauvignon and Cabernet Franc grown in the Eastern US</td>
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<td>FNE11-716</td>
<td>Adaptation and integration of remote setting, selective breeding and triploid</td>
<td>$15,000</td>
<td>Thomas Foca</td>
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<td>production technologies to revitalize oyster culture in Delaware Bay</td>
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<td>FNE11-727</td>
<td>Raising fig trees in high tunnels in the Northeast</td>
<td>$9,799</td>
<td>Maurice sheets</td>
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<td>FNE11-729</td>
<td>Improving the Quality of Queen Honey Bees produced in the Northeast by</td>
<td>$14,971</td>
<td>Karoly Toth</td>
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<td></td>
<td>Modifying Standard 10-Frame High Body Boxes</td>
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<tr>
<td>FNE11-733</td>
<td>Improving Growing Practices for Processing Tomatoes Using Rodale Roller</td>
<td>$9,290</td>
<td>Theresa Viggiano</td>
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<tr>
<td>FNE09-672</td>
<td>A Middle Entrance for Beehives II</td>
<td>$3,984</td>
<td>Dave Stewart</td>
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<tr>
<td>FNE08-646</td>
<td>A middle entrance for beehives</td>
<td>$4,816</td>
<td>Dave Stewart</td>
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<tr>
<td>FNE04-516</td>
<td>Pre-sidedress Nitrate Test in Pumpkins</td>
<td>$1,121</td>
<td>Erin Hitchner</td>
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<tr>
<td>FNE03-476</td>
<td>Creating No-Till Cover in Newly Established Organic Blueberry Blocks</td>
<td>$6,182</td>
<td>John Marchese</td>
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<tr>
<td>FNE03-478</td>
<td>An Improved System for Moving and Storing Small Rectangular Bales</td>
<td>$9,949</td>
<td>Richard McDermott</td>
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<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>
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</table>
**FNE02-425** Study of the Chilling Requirements of Four Floracane Raspberry Varieties for Greenhouse Raspberry Production  
$6,900  
Shirley Kline  
Happy Valley Berry Farm

**FNE02-439** Multi-Farm Garlic Growers Project  
$2,146  
Richard Sisti

**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

**FNE00-321** Native spat collectors for obtaining oyster farm seed.  
$4,885  
James Tweed

**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

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| GNE22-288  | Insecticide Efficacy Trial in Vineyards Against Spotted Lanternfly Adults.     | $14,969      | Anne Nielsen  
Rutgers University  
Katarzyna Madalinska  
Rutgers University        |

| GNE22-299  | Standardizing Farming Practices of Leafy Green Amaranth in the Northeast to Ensure Cultural Availability and Nutrient Density. | $14,685      | Dr.James Simon  
Rutgers University  
Tori Rosen  
Rutgers University        |

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

| GNE22-292  | Surveying an insect collection from a 17th-century Northeastern agrarian settlement to determine changes in beneficial insects, pests, and climate | $14,859      | George Hamilton  
Rutgers University  
Michael Monzon  
Rutgers University, New Jersey Agricultural Experiment Station        |
<table>
<thead>
<tr>
<th>Project ID</th>
<th>Title</th>
<th>Amount</th>
<th>Principal Investigator(s)</th>
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</thead>
</table>
| GNE22-306   | Influences of habitat-level crop diversity on community dynamics of pentatomids and their parasitoids in New Jersey | $15,000 | Anne Nielsen, Rutgers University
                               |                                                       |         | Emma Waltman, Rutgers University                                                         |
| GNE21-273   | Development of Value-added Healthy Meal Solutions in Functional Recyclable Packaging to Rebrand and Increase Marketability of New Jersey Squashes | $14,997 | Dr. Kit Yam, Rutgers University
                               |                                                       |         | Shuo Yuan, Rutgers University                                                            |
| GNE20-226   | Honey Bee Responses to Blueberry Fungicides and Varroa Miticides While Used in NJ Blueberry Pollination Services | $15,000 | Dean Polk, Rutgers University
                               |                                                       |         | Chelsea Abegg, Rutgers, The State University of New Jersey                               |
| GNE20-246   | Developing a Thermal Shock Method to Control Disease and Biofouling on Oyster Farms | $15,000 | Dr. David Bushek, PhD, Haskin Shellfish Research Laboratory, Rutgers University
                               |                                                       |         | Heidi Yeh, Rutgers, the State University of New Jersey                                    |
| GNE19-212   | Increasing Consumer Acceptance of Baby Leafy Greens Grown in a Controlled Environment | $15,000 | Dr. Beverly Tepper, Rutgers University
                               |                                                       |         | 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, Rutgers University                                                      |
| GNE17-141   | Breeding for thermal tolerance in farmed atlantic surfclams (Spisula solidissima) | $14,963 | Dr. Daphne Munroe, Haskin Shellfish Research Lab (Rutgers University)
                               |                                                       |         | Dr. Michael Acquafredda, NOAA NEFSC                                                    |
| GNE17-149   | Roles of rhizobacteria from northeast natural ecosystems in improving crop productivity and stress tolerance | $14,848 | Bingru Huang, Rutgers University
                               |                                                       |         | William Errickson, Rutgers University                                                  |
| 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 | Dr. Carey Williams, Rutgers, The State University of New Jersey
<pre><code>                           |                                                       |         | Jennifer Weinert, Rutgers, The State University of New Jersey                          |
</code></pre>
<table>
<thead>
<tr>
<th>Grant Number</th>
<th>Project Title</th>
<th>Funding</th>
<th>Principal Investigators</th>
</tr>
</thead>
</table>
| 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 Valentín  
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 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 |
<table>
<thead>
<tr>
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</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 |
| 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 Reserach 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 |
**SUSTAINABLE COMMUNITY INNOVATION GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ONE09-106</td>
<td>Hazelnuts: A New Sustainable Crop for the Northeastern United States</td>
<td>$10,000</td>
<td>Dr. Thomas Molnar&lt;br&gt;Rutgers University</td>
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<tr>
<td>ONE09-108</td>
<td>Integrating Cover crops into Sustainable Highbush Blueberry Production in New Jersey</td>
<td>$10,000</td>
<td>Dr. Zsotifa Szendrei&lt;br&gt;Michigan State University</td>
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<tr>
<td>ONE08-090</td>
<td>Asian Pears, an alternative crop for Northeast fruit growers - Developing a Plant Growth Regulator Thinning Program to Ensure Profitability</td>
<td>$9,997</td>
<td>Daniel Ward&lt;br&gt;Rutgers University</td>
</tr>
<tr>
<td>ONE08-092</td>
<td>Low-input management practices for container Ericaceous nursery crops</td>
<td>$9,985</td>
<td>Gladis Zinati&lt;br&gt;Rutgers, The State University&lt;br&gt;Dr. John Dighton&lt;br&gt;Rutgers University</td>
</tr>
<tr>
<td>ONE07-078</td>
<td>Evaluating the effects of production system and cultivar on the development of silverying in bell pepper fruit</td>
<td>$9,860</td>
<td>Nancy Maxwell&lt;br&gt;New Jersey Agricultural Experiment Station&lt;br&gt;Andy Wyenandt&lt;br&gt;New Jersey Agricultural Experiment Station&lt;br&gt;Wesley Kline&lt;br&gt;New Jersey Agricultural Experiment Station</td>
</tr>
<tr>
<td>ONE06-054</td>
<td>Increasing the sustainability of northeastern goat farms via the establishment of value-added goat meat products in new, nontraditional markets</td>
<td>$9,973</td>
<td>H. Louis Cooperhouse&lt;br&gt;Rutgers, The State University of New Jersey</td>
</tr>
<tr>
<td>ONE06-066</td>
<td>Evaluating the effects of variety and production system on the development of silverying in bell pepper fruit</td>
<td>$9,824</td>
<td>Andy Wyenandt&lt;br&gt;New Jersey Agricultural Experiment Station</td>
</tr>
<tr>
<td>ONE05-043</td>
<td>Implementation of an integrated peach rusty spot disease management program in commercial orchards</td>
<td>$10,000</td>
<td>Norman Lalancette&lt;br&gt;Rutgers University</td>
</tr>
<tr>
<td>ONE03-016</td>
<td>Ratcheting up commercial organic high-bush blueberry production systems</td>
<td>$9,380</td>
<td>William Sciarappa&lt;br&gt;Rutgers Cooperative Extension</td>
</tr>
<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&lt;br&gt;Rutgers University Department of Animal Sciences</td>
</tr>
</tbody>
</table>
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

Total funding from the USDA SARE program to New Jersey
$4,765,382

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).