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 hillng 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/

$5,163,893 in total funding

139 grant projects

(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.

Farmers 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/](http://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/](http://northeast.sare.org/state-profiles/new-jersey/) to learn more.

**Michelle Infante-Casella**
Rutgers University of New Jersey
85622410361
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](http://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.

### 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</td>
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<tr>
<td></td>
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<td>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</td>
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<td>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</td>
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<td></td>
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<td>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</td>
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<td>Rutgers University</td>
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<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</td>
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<td>Rutgers University</td>
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<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</td>
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<td></td>
<td></td>
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<td>Rutgers University, Gladis Zinati</td>
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<td>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</td>
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<td>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</td>
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<td>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</td>
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<tr>
<td></td>
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<td>Rutgers Cooperative Extension, Rutgers University</td>
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</tbody>
</table>
Integration of Behavioral, Biological, and Reduced-Risk Chemical Approaches into a Sustainable Insect Management Program for Cranberries

Sustainable Phosphorous Fertilizer Recommendations for Corn Production in the Northeast USA

Flowering Plants to Enhance Biological Control in Landscapes

At-Harvest Stalk Nitrate Testing for Sweet Corn

Peach Orchard Ground Cover Management to Reduce Arthropod Damage

Presidedress Soil Nitrate Test for Fall Cabbage

Improving the Profitability & Adaptation of the High-Density Strawberry Production System for the Northeast

Implementation of a Disease Forecasting System for Tomatoes in Northern New Jersey

Develop Crop Rotational Budgets For Three Cropping Systems in the Northeast

Eggplant: A model system for integrating biological control of Colorado potato beetle and Verticillium wilt

Marketability of Low-input Agricultural Produce

**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>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>
</tbody>
</table>
### Foliar Nickel Fertilizer
Nutrition to Enhance Cranberry Yield and Decrease Fungicide Use

- **SARE Support:** $199,987
- **Project Leader:** Joseph Heckman
  - Rutgers, The State University of New Jersey

### Reducing Water and Fertilizer Inputs by Incorporating Native Beneficial Bacteria in Sustainable Turfgrass Sod Production

- **SARE Support:** $149,910
- **Project Leader:** Dr. Bingru Huang, PhD
  - Rutgers University
- **Co-Project Leader:** William Errickson
  - Rutgers University

### Extend and Maximize Postharvest Quality of Strawberry

- **SARE Support:** $41,504
- **Project Leader:** 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 |
<table>
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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
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<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>
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<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>
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<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>
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<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>
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<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>
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<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>
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**FARMER/RANCHER GRANTS**

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<tr>
<th>Project #</th>
<th>Project Title</th>
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<th>Project Leaders</th>
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<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 Alstede Farms LLC Colin Manning 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 Moonshot Farm, LLC</td>
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<tr>
<td>Project Code</td>
<td>Project Title</td>
<td>Funding</td>
<td>Principal Investigator(s)</td>
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| FNE24-092   | Farming To Improve Health, Increase Education and Promote Food Access Among    | $15,011 | Cyara Phillips  
Tuba Farm Foundation  
Muhammad Khan  
Tuba Farm Foundation  
Cyara Phillips  
Tuba Farm Foundation  
                                                                 |         | Underserved Farmers, Students, and Adults Near Food Desert, Camden, NJ.                                                                                                                                                    |
| FNE24-091   | Potential Influence of Phytoplankton Communities on the Growth of Farmed M.     | $24,759 | Dale Parsons  
Parsons Seafood and Mariculture  
Colleen Ebert  
Parsons Seafood and Mariculture  
mercenaria in Southern New Jersey: A Pilot Study                                                                                                               |         |                                                                                                                                                                                                                           |
| FNE24-096   | Ginger Production in the Northeast: Increasing Profitability and Success with   | $20,907 | Alex Sawatzky  
Rutgers University  
                                                                                                                  |         | Intercropping in Variable Growing Environments                                                                                                                                          |
| FNE23-038   | Evaluation of Elevated Rack Height to Control Biofouling on an Intertidal       | $20,088 | Lisa Calvo  
Sweet Amalia Oyster Farm  
                                                                                                                  |         | Oyster Farm: Efficacy and Economics                                                                                                                                                    |
| 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 | $24,916 | Bradley Burke  
Longmeadow Farm  
                                                                                                                  |         | on Germination and Weed Suppression in Rye, Corn and Pumpkins                                                                                                                                 |
| 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      | $11,133 | Sherry Dudas  
Honey Brook Organic Farm  
                                                                                                                  |         | Certified-Organic Produce Farm via Aerated Static Pile Composting                                                                                                                                 |
| FNE21-983   | Testing the Efficacy of a Hybrid Floating Bag and Bottom Planting Method to    | $11,912 | Matthew Gregg  
Forty North Oyster Farms  
Amelia Stanley  
Stockton University and Forty North Oyster Farms  
                                                                                                                  |         | Grow Oysters                                                                                                                                                                                                 |
| FNE21-985   | Mobile Oyster Aquaculture Farming Unit                                        | $14,999 | TODD KOSTKA  
Brigantine Oyster Company  
<p>| | |
|         |                                                                                                                                                                                                                           |</p>
<table>
<thead>
<tr>
<th>Project Code</th>
<th>Project Title</th>
<th>Budget</th>
<th>Investigator(s)</th>
<th>Institution(s)</th>
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<tr>
<td>FNE20-952</td>
<td>Chemical-Free Vineyards</td>
<td>$14,813</td>
<td>Steve and Audrey Gambino</td>
<td>Villa Milagro Vineyards</td>
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<tr>
<td>FNE19-931</td>
<td>Cold Storage of Eastern Oysters, Crassostrea virginica, to Reduce Winter Mortality in an Increasingly Variable Environment</td>
<td>$14,845</td>
<td>Betsy Haskin</td>
<td>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</td>
<td>Beneduce Vineyards</td>
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<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</td>
<td>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</td>
<td>Chickadee Creek Farm</td>
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<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</td>
<td>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</td>
<td>Sweet Amalia Oyster Farm</td>
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<td>FNE15-833</td>
<td>A honeybee IPM program for pollinator health in blueberry production</td>
<td>$15,000</td>
<td>Dennis Wright</td>
<td>Fruitwood Orchards Honey</td>
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<td>Dean Polk</td>
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<td>Rutgers University</td>
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<td>FNE14-807</td>
<td>Evolving cage design for floating oyster farms in Barnegat Bay, NJ</td>
<td>$11,088</td>
<td>Matthew Gregg</td>
<td>Forty North Oyster Farms</td>
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<tr>
<td>FNE13-780</td>
<td>Methods to control bio-fouling of cultured eastern oysters, Crassostrea virginica, by the tube-building polychaete worm, Polydora cornuta</td>
<td>$13,415</td>
<td>Betsy Haskin</td>
<td>Betsy's Cape Shore Salts</td>
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<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</td>
<td>Elder Point Oyster Company</td>
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<td>Project Code</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 Cabernet Sauvignon and Cabernet Franc grown in the Eastern US</td>
<td>$10,220</td>
<td>Dr. Lawrence Coia Coia Vineyards, LLC</td>
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<td>FNE11-716</td>
<td>Adaptation and integration of remote setting, selective breeding and triploid production technologies to revitalize oyster culture in Delaware Bay</td>
<td>$15,000</td>
<td>Thomas Foca Harbor House Seafood, LLC</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 woodland Produce</td>
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<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>
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<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>
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<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 Grant J. Hitchner Farm</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 Emery's Berry Patch</td>
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<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>
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<tr>
<td>FNE03-493</td>
<td>Event Marketing</td>
<td>$6,693</td>
<td>Richard Sisti</td>
<td></td>
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<tr>
<td>FNE03-501</td>
<td>Mobile Poultry Processing Unit</td>
<td>$4,228</td>
<td>John Wunderlich</td>
<td></td>
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</tbody>
</table>
Study of the Chilling Requirements of Four Floracane Raspberry Varieties for Greenhouse Raspberry Production

$6,900

Shirley Kline
Happy Valley Berry Farm

Multi-Farm Garlic Growers Project

$2,146

Richard Sisti

Adapting a Western style of pruning and tying peach trees in New Jersey to maximize production and tree longevity.

$4,425

Rolf Decou

Sorghum as a finishing grain for bison.

$3,298

Erick Doyle

Native spat collectors for obtaining oyster farm seed.

$4,885

James Tweed

Comparison of Drainage Methods for Phytophthora Root Rot Control

$3,500

Abbott Lee

Solar Heated Aquaculture System

$3,313

Garland Michallis

Small Farm Biogas Production & Use

$5,096

Ara Lynn
Liberty Farm

GRADUATE STUDENT GRANTS

Project # | Project Title | SARE Support | Project Leaders
--- | --- | --- | ---
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
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 Pollinizers 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  Jennifer Weinert  Rutgers, The State University of New Jersey
<table>
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<tr>
<th>Project ID</th>
<th>Title</th>
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<th>Principal Investigators</th>
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<tr>
<td>GNE16-132</td>
<td>Identifying realized predation on BMSB (Halyomorpha halys, Stål) and host plant impacts</td>
<td>$13,639</td>
<td>Anne Nielsen&lt;br&gt;John Pote</td>
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<td>GNE15-112</td>
<td>Development of a high-resolution surveillance protocol using eDNA for detection of brown marmorated stink bugs</td>
<td>$14,999</td>
<td>Dr.Julie Lockwood&lt;br&gt;Dr.Dina Fonseca&lt;br&gt;Rafael Valentin&lt;br&gt;Rutgers, The State University of New Jersey</td>
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<td>GNE14-084</td>
<td>Evaluating the biological control agent Trichoderma: Enhancement of plant growth and development through biostimulatory volatile treatment</td>
<td>$10,248</td>
<td>Dr.Joan Bennett&lt;br&gt;Samantha Lee&lt;br&gt;Rutgers, The State University of New Jersey</td>
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<td>GNE13-054</td>
<td>Halyomorpha halys in peaches: improved detection for IPM scouting</td>
<td>$14,850</td>
<td>George Hamilton&lt;br&gt;John Cambridge&lt;br&gt;Rutgers University</td>
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<td>GNE13-064</td>
<td>Optimization of adventitious rooting of hazelnut stem cuttings to expedite on-farm commercialization trials</td>
<td>$8,376</td>
<td>Dr.Thomas Molnar&lt;br&gt;Megan Muehlbauer&lt;br&gt;Rutgers, The State University of New Jersey</td>
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<td>GNE13-070</td>
<td>Biological Control of Blueberry Anthracnose and Cranberry Fruit Rot: Exploiting Fungal Responses to Blueberry and Cranberry Bloom in Biocontrol Treatments</td>
<td>$13,369</td>
<td>Dr.Peter Oudemans&lt;br&gt;Timothy Waller&lt;br&gt;Rutgers University</td>
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<td>GNE12-038</td>
<td>Landscape effects on spatial distribution and movement of brown marmorated stink bug in peach orchards</td>
<td>$14,179</td>
<td>Dr.Cesar Rodriguez-Saona&lt;br&gt;George Hamilton&lt;br&gt;Noel Hahn&lt;br&gt;Rutgers University</td>
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<td>GNE11-027</td>
<td>Assessing Nematode Diversity in Natural and Managed Blueberry Habitats</td>
<td>$14,993</td>
<td>Albrecht Koppenhöfer&lt;br&gt;Dr.Cesar Rodriguez-Saona&lt;br&gt;Monique Rivera&lt;br&gt;Rutgers University</td>
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<td>GNE10-003</td>
<td>Improving the Sustainability of Switchgrass Establishment Through the Development of Cultivars with Improved Germination</td>
<td>$15,000</td>
<td>Dr.Stacy Bonos&lt;br&gt;Laura Cortese&lt;br&gt;Rutgers, The State University of New Jersey</td>
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<tr>
<td>Project #</td>
<td>Project Title</td>
<td>SARE Support</td>
<td>Project Leaders</td>
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| 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 (Hybicus 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

ONE03-016  Ratcheting up commercial organic high-bush blueberry production systems  $9,380  William Sciarrappa  Rutgers Cooperative Extension

SUSTAINABLE COMMUNITY INNOVATION GRANTS

<table>
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<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>
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</table>
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).