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 $307 million to more than 7,384 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.

SARE in Maine

northeast.sare.org/sare-in-your-state/ maine

$6,338,104 in total funding

210 grant projects

(since 1988)

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

Maine

Project Highlight: Interpersonal Relationships Farm Viability

Small-scale and beginning farmers are vital to Maine’s agriculture. According to the Maine Farm Bureau, 61 percent of the state’s producers farm one to 99 acres. Additionally, the number of beginning farmers, those who have been in the business 10 years or fewer, has grown. However, the total number of farms in Maine is decreasing. An increase in farm retention is needed—and is possible by targeting education to small-scale and beginning farmers and the professionals who support them. The University of Maine Cooperative Extension is leading a SARE-funded project to meet this need.

The project sought to expand farm educators’ training materials with information on interpersonal communication and relationships. It initially aimed to train 45 service providers, many of whom participate in the Beginning Farmer Resource Network of Maine. Instead, 53 people took part. The program included farmer focus groups, working groups, one and a half days of training and a webinar. A toolkit, one-on-one consultation checklist and a decision-making tool were also developed.

The 53 trained service providers will apply their newly developed skills in one-on-one consultations with 90 farmers, who manage a combined 10,755 acres, with an aim to improve farm retention and farmer lifestyle satisfaction.

For more information on this research, see sare.org/projects, and search for project number ENE16-142.
SARE Grants in Maine

Total awards: 210 grants
- 114 Farmer/Rancher
- 14 Graduate Student
- 29 On Farm Research/Partnership
- 12 Professional Development Program
- 41 Research and Education

Total funding: $6,338,104
- $858,163 Farmer/Rancher
- $180,163 Graduate Student
- $404,674 On Farm Research/Partnership
- $880,487 Professional Development Program
- $4,014,617 Research and Education

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/maine

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/maine to learn more.

Ellen Mallory
University of Maine
(207) 581-2942
elen.mallory@maine.edu

Tom Molloy
University of Maine
(207) 581-3213
thomas.molloy@maine.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.
Maine has been awarded $6,490,963 grants to support 218 projects, including but not limited to, 37 research and/or education projects, 12 professional development projects and 114 producer-led projects. Maine 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>LNE19-374</td>
<td>Nutrient and Weed Management Strategies for Organic Wild Blueberry Growers</td>
<td>$199,828</td>
<td>Dr. Lily Calderwood University of Maine</td>
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<tr>
<td>LNE19-377</td>
<td>Building Social Sustainability on Farms through Online and In-Person Education</td>
<td>$197,676</td>
<td>Leslie Forstadt University of Maine Cooperative Extension</td>
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<td>LNE14-336</td>
<td>Best management practices for the control of blister worm on oyster farms</td>
<td>$61,742</td>
<td>Dr. Paul Rawson University of Maine</td>
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<td>LNE14-337</td>
<td>Control of Haemonchus contortus in northern New England sheep and goats through manipulation of its winter ecology</td>
<td>$200,161</td>
<td>Dr. James Weber University of Maine</td>
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<td>LNE13-325</td>
<td>Improving winter grain yields, grain quality, and nitrogen use efficiency in New England using adaptive management</td>
<td>$236,931</td>
<td>Ellen Mallory UMaine Coop Extension</td>
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<tr>
<td>LNE11-306</td>
<td>Increased profits from disease-free garlic planting stock</td>
<td>$121,340</td>
<td>Dr. Steve Johnson University of Maine</td>
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<tr>
<td>LNE10-294</td>
<td>Eliminating the effects of footrot on sheep flocks in the Northeast</td>
<td>$184,760</td>
<td>Dr. Richard Brzozowski University of Maine Cooperative Extension</td>
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<tr>
<td>LNE09-287</td>
<td>Reducing fuel and fertilizer costs for corn silage in the Northeast with cover crops and no-till</td>
<td>$149,755</td>
<td>Richard Kersbergen University of maine Cooperative Extension</td>
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<tr>
<td>LNE07-264</td>
<td>Canola as an oilseed crop for New England</td>
<td>$78,867</td>
<td>Peter Sexton University of Maine Cooperative Extension</td>
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<td>LNE06-237</td>
<td>Managing weed seed rain: A new paradigm for organic and low-input farmers</td>
<td>$156,520</td>
<td>Dr. Eric Gallandt University of Maine</td>
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<tr>
<td>LNE06-240</td>
<td>Expanding grain production and use on organic dairy farms in Maine and Vermont</td>
<td>$143,626</td>
<td>Richard Kersbergen University of maine Cooperative Extension</td>
</tr>
</tbody>
</table>
| LNE06-242 | Building connections: Creating a broader public base for CSAs | $151,655 | Russell Libby  
                MOFGA |
| LNE05-228 | Maine Organic Farmers and Gardeners Association (MOFGA) | $24,999 | Dr. Eric Sideman  
                      Maine Organic Farmers and Gardeners Association |
| LNE04-203 | Hybrid Mulching Effects on Vegetable Crop Productivity, Weed Dynamics and Soil Quality | $131,302 | Dr. Mark Hutton  
                     University of Maine Coope |
| LNE04-210 | Developing a Support Network for Grass Based Livestock Producers | $90,400 | Diane Schivera  
                           Maine Organic Farmers and Gardeners Association |
| LNE03-178 | Katahdin Hair Sheep Upgrade Project – Phase II | $105,690 | Dr. Richard Brzozowski  
                        University of Maine Cooperative Extension |
| LNE02-166 | Integration of a Brassica Green Manure into the Potato-Barley Rotation | $77,503 | Peter Sexton  
                      University of Maine Cooperative Extension |
| LNE02-160 | Restoring Our Seed: Extension Program to Train Farmers in Ecological Seed Crop Production | $135,000 | CR Lawn  
                      MOFGA  
                      Eli Kaufman  
                      MOFGA |
| LNE01-141 | Diversity & Intensity of Cover Crop Systems: Managing Weed Seed Bank & Soil Health | $155,937 | Dr. Eric Gallandt  
                     University of Maine |
| LNE01-146 | Farms for Maine’s Future: Comprehensive, Sustainable Strategies Using Teams | $145,000 | John Piotti  
                     Coastal Enterprises, Inc./Maine Farms Project |
| LNE00-138 | Katahdin Hair Sheep Upgrade Project | $135,167 | Dr. Richard Brzozowski  
                     University of Maine Cooperative Extension |
| LNE99-122 | Establishing Integrated Systems Baseline & Educational & Mentoring Programs | $56,833 | Stewart Smith  
                     Maine Sustainable Agriculture Society |
| LNE98-103 | Soil Amendment & Crop Rotation Effects on Productivity & Soil Properties Within Potato Production Systems | $100,126 | Gregory A. Porter  
                      University of Maine |
| LNE98-113 | Alternate Grain/Bean Rotations for Optimized Economic Yield in Northeast Organic Farming | $68,604 | William Brinton  
                     Woods End Agricultural Institute |
| LNE96-071 | Compost Laboratory Education Project | $51,650 | William Brinton  
                      Woods End Agricultural Institute |
| LNE96-064 | Impact of Herbicides on Beneficial Insects of Blueberry & Cranberry | $150,000 | Frank A. Drummond  
                     University of Maine, Dept of Biological Sciences |
| ANE95-027 | Utilization of a Neem Product in a Reduced Synthetic Chemical Insecticide Management Program for Colorado Potato Beetle | $18,245 | Kathleen Murray  
                     Dept. of Biological Sciences, University of Maine |
| ANE94-020 | Nutrient Management on Maine Dairy Farms | $107,000 | Timothy S. Griffin  
                      New England Plant, Soil and Water Research Lab |
| LNE94-041 | Farmer-to-Farmer Directory and Field Days (LNE91-29) | $28,000 | Dr. Eric Sideman  
                     Maine Organic Farmers and Gardeners Association |
<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
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</tr>
</thead>
<tbody>
<tr>
<td>LNE94-046</td>
<td>Improving Pollination for the Northeast: On-Farm Testing, Demonstration and Management of the Alfalfa Leafcutting Bee</td>
<td>$120,000</td>
<td>Frank A. Drummond, University of Maine, Dept of Biological Sciences</td>
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<tr>
<td>LNE93-036</td>
<td>Ecological Management of Potato Cropping Systems (ANE93.018)</td>
<td>$11,870</td>
<td>Gregory A. Porter, University of Maine</td>
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<tr>
<td>LNE92-030</td>
<td>Decision Making in Sustainable Agriculture Systems — Planning Grant</td>
<td>$5,000</td>
<td>Michell Hutt, University of Southern Maine</td>
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<tr>
<td>LNE91-029</td>
<td>Farmer-to-Farmer Directory and Conference (LNE94-41)</td>
<td>$21,500</td>
<td>Dr. Eric Sideman, Maine Organic Farmers and Gardeners Association</td>
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<tr>
<td>LNE90-023</td>
<td>The Integration of Crop (Potato) and Livestock Production Systems</td>
<td>$43,000</td>
<td>Barbara Barton, University of Maine</td>
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<tr>
<td>LNE89-012</td>
<td>Ruminant Animal Production Using Tyfon Forage Brassica</td>
<td>$85,000</td>
<td>Mary Weidenhoeft, University of Maine</td>
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</tbody>
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**PROFESSIONAL DEVELOPMENT PROGRAM GRANTS**

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
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</thead>
<tbody>
<tr>
<td>ENE20-164</td>
<td>The Northeast Climate Adaptation Fellowship to Support Vegetable and Fruit Farmers</td>
<td>$149,000</td>
<td>Dr. Rachel Schattman, University of Maine School of Food and Agriculture</td>
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<tr>
<td>ENE17-146</td>
<td>Professional Development in Calibrating Pesticide and Nutrient Application Equipment for Agricultural Service Providers</td>
<td>$90,743</td>
<td>Caragh Fitzgerald, University of Maine</td>
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<tr>
<td>ENE17-147</td>
<td>Training the Trainers; Enhancing Extension Resources for Beginning Farmers</td>
<td>$47,107</td>
<td>Jason Lilley, University of Maine Cooperative Extension</td>
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<tr>
<td>ENE16-142</td>
<td>Focusing on interpersonal relationships for greater farm viability</td>
<td>$61,002</td>
<td>Leslie Forstadt, University of Maine Cooperative Extension</td>
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<tr>
<td>ENE14-131</td>
<td>Applied Poultry Science Professional Development Project - Phase II</td>
<td>$70,715</td>
<td>Donna Coffin, University of Maine Cooperative Extension</td>
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<tr>
<td>ENE11-119</td>
<td>Management Practices to Reduce Agricultural Emissions: A Workshop for Professionals</td>
<td>$33,098</td>
<td>Susan Gammon, Androscoggin Valley Soil and Water Conservation District</td>
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<tr>
<td>ENE08-108</td>
<td>Sustainable Livestock Mortality Management</td>
<td>$169,425</td>
<td>Mark Hutchinson, University of Maine Extension</td>
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<tr>
<td>ENE04-084</td>
<td>Eat Local Foods Coalition: Connecting Nutritionists and Farmers</td>
<td>$9,973</td>
<td>Russell Libby, MOFGA</td>
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<tr>
<td>ENE02-068</td>
<td>Sustainable Farm Forest Management Using Small-Scale Logging Methods</td>
<td>$98,744</td>
<td>Andrew Egan, University of Maine</td>
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<td>ENE01-063</td>
<td>Farmer Interviews as a Tool for Educating Agricultural Support Personnel and Other Farmers</td>
<td>$42,120</td>
<td>Stewart Smith, Maine Sustainable Agriculture Society</td>
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<tr>
<td>ENE97-029</td>
<td>University of Maine Cooperative Extension Compost School</td>
<td>$101,560</td>
<td>Neal D. Hallee, University of Maine Cooperative Extension</td>
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<tr>
<td>Project #</td>
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<td>Project Leaders</td>
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<tr>
<td>FNE20-955</td>
<td>Determining optimal seed-clam size for littleneck/oyster polyculture</td>
<td>$14,922</td>
<td>Jordan Kramer, Winnegance Oyster Farm</td>
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<tr>
<td>FNE20-958</td>
<td>Introducing Value-Added Cornmeal into Liberation Farm’s agricultural Production</td>
<td>$10,527</td>
<td>Muhidin Libah, Somali Bantu Community Association</td>
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<td>FNE20-947</td>
<td>Effect of Container Depth on Taprooted Seedling Root Morphology &amp; Post-Transplant Establishment Success</td>
<td>$14,908</td>
<td>Anson Biller, Full Fork Farm</td>
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<td>FNE20-965</td>
<td>Developing management options for Staph aureus on organic dairies</td>
<td>$13,149</td>
<td>Katie Webb Clark, Reed Farm</td>
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<td>FNE19-921</td>
<td>Evaluating Alternative Malting Barley Varieties and their Acceptance in the Northeast Craft Brewing Community</td>
<td>$14,509</td>
<td>Jacob Buck, Maine Malt House</td>
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<td>FNE19-932</td>
<td>European Corn Borer Detection in Local Hopyards</td>
<td>$6,247</td>
<td>ryan houghton, The Hop Yard</td>
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<td>FNE19-936</td>
<td>Using Shading to Control Algal Bio-fouling on a Floating Oyster Farm</td>
<td>$12,805</td>
<td>Jordan Kramer, Winnegance Oyster Farm</td>
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<td>FNE19-940</td>
<td>Development of a New Seaweed Growing System for Nori Production in the Northeast</td>
<td>$15,000</td>
<td>Sarah Redmond, Springtide Seaweed, LLC</td>
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<td>FNE19-946</td>
<td>Developing Management Options for Staph aureus on Organic Dairies</td>
<td>$13,157</td>
<td>Katie Webb Clark, Reed Farm</td>
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<tr>
<td>FNE18-897</td>
<td>Tree Leaf Fodder for Livestock: Transitioning Farm Woodlots to ‘Air Meadow’ for Climate Resilience</td>
<td>$15,000</td>
<td>Shana Hanson, 3 Streams Farm</td>
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<tr>
<td>FNE18-901</td>
<td>Little neck Clam and American Oyster Polyculture: Economic Viability and Nursery Technique</td>
<td>$12,273</td>
<td>Jordan Kramer, Winnegance Oyster Farm</td>
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<td>FNE18-905</td>
<td>High Density Hybrid Plums: Innovation and Efficient Fruit Production for the Northeast</td>
<td>$7,508</td>
<td>John O’Meara, O’Meara Family Farm</td>
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<td>FNE17-864</td>
<td>Building soil fertility with spent brewers grains</td>
<td>$11,272</td>
<td>Anson Biller, Full Fork Farm</td>
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<tr>
<td>FNE17-868</td>
<td>The effect of crowning and weed management practices on hop yield and downy mildew</td>
<td>$12,206</td>
<td>Krista Delahunty, Aroostook Hops</td>
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<tr>
<td>FNE17-876</td>
<td>Developing a breed registry for Polwarth sheep using imported semen and radio-frequency technology</td>
<td>$15,000</td>
<td>Nanne Kennedy, Seacolors Yarnery at Meadowcroft Farm</td>
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<tr>
<td>FNE17-877</td>
<td>Integrated oyster and littleneck clam aquaculture to increase seafarm yield</td>
<td>$14,942</td>
<td>Jordan Kramer, Winnegance Oyster Farm</td>
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<td>FNE16-845</td>
<td>Taking no-till corn a step (or two) further</td>
<td>$14,800</td>
<td>Mary Ann Hayes Ward Dairy Farm</td>
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<td>FNE16-848</td>
<td>Using tidal energy to clean and tumble oysters</td>
<td>$15,000</td>
<td>Jordan Kramer Winnegance Oyster Farm</td>
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<td>FNE16-854</td>
<td>Pallet-mounted plastic grain bin for drying and long-term weatherproof storage</td>
<td>$7,732</td>
<td>Sean O'Donnell Rusted Rooster Farm</td>
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<tr>
<td>FNE16-856</td>
<td>Viability of directly sown paddy rice</td>
<td>$14,632</td>
<td>Samuel Rooney Wild Folk Farm</td>
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<tr>
<td>FNE16-857</td>
<td>Using forage radish to combat compaction in hay and pasture land</td>
<td>$10,671</td>
<td>Abby Sadauckas Apple Creek Farm, LLC</td>
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<tr>
<td>FNE15-820</td>
<td>Evaluating sheep as a sustainable approach to reducing reliance on herbicides, fungicides, and commercial fertilizer in hop yards</td>
<td>$6,954</td>
<td>Peter Busque The Hop Yard</td>
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<td>FNE15-826</td>
<td>Viability of integrating field peas into organic cereal grain rotations in Maine</td>
<td>$11,365</td>
<td>Jake Dyer Benedicta Grain Co.</td>
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<td>FNE14-797</td>
<td>Evaluation of hardy fig varieties in a northern New England high tunnel</td>
<td>$14,992</td>
<td>Bill Errickson Singing Nettle Farm</td>
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<td>FNE14-808</td>
<td>Study of ramial chip mulch and organic fertilizers on wild blueberries</td>
<td>$14,706</td>
<td>Nicolas Lindholm Blue Hill Berry Co.</td>
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<td>FNE14-810</td>
<td>Brassicas and small grains: Sustainable feed for Northeast dairy farms</td>
<td>$11,078</td>
<td>John O’Meara O’Meara Family Farm</td>
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<td>FNE13-782</td>
<td>Allium white rot biostimulation project Part 2</td>
<td>$8,104</td>
<td>Amy LeBlanc Whitehill Farm</td>
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<tr>
<td>FNE12-742</td>
<td>Evaluating Cover Cropping and Non-Herbicide Weed Management Strategies in Hops, a Perennial Crop</td>
<td>$12,654</td>
<td>Krista Delahunty Aroostook Hops</td>
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<tr>
<td>FNE12-756</td>
<td>A comparison of strength and survivability of honeybee colonies started with conventional versus northern requeened packages</td>
<td>$14,997</td>
<td>Erin MacGregor-Forbes Overland Apiaries</td>
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<tr>
<td>FNE11-711</td>
<td>An Experiment on the Effectiveness of Irrigation and Cover Cropping to Produce Sustainable Hops in Maine</td>
<td>$10,197</td>
<td>Dr. Jason Johnston Aroostook Hops</td>
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<tr>
<td>FNE11-712</td>
<td>Feeding Minerals and Supplements to a Organic Pastured Poultry Operation</td>
<td>$14,007</td>
<td>Carly DelSignore Tide Mill Organic Farm</td>
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<td>FNE11-714</td>
<td>Amending pasture soil to decrease weed presence while improving forage species composition and quality</td>
<td>$10,706</td>
<td>Bill Errickson Singing Nettle Farm</td>
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<td>FNE11-721</td>
<td>Management of Allium White Rot</td>
<td>$8,301</td>
<td>Amy LeBlanc</td>
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<td>FNE10-699</td>
<td>Evaluating Suitability of Open-Pollinated Melon Varieties for Intensive Organic Production</td>
<td>$4,093</td>
<td>Alice Percy</td>
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<td>FNE10-690</td>
<td>The Analysis of the Cost and Quality of Direct Cut Vacuum Silage for the Northeast</td>
<td>$8,442</td>
<td>Seth Kroeck</td>
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<td>FNE10-694</td>
<td>A Comparison of Honey Bee Colony Strength and Survivability between Nucleus and Package Started Colonies</td>
<td>$14,993</td>
<td>Erin MacGregor-Forbes</td>
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<td>FNE10-696</td>
<td>Sulfur Application for Weed Specific Suppression</td>
<td>$5,812</td>
<td>Kristen McGovern</td>
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<td>FNE10-698</td>
<td>Buckwheat Hay – A Quality Feed for Dairies in the Northeast?</td>
<td>$7,314</td>
<td>John O’Meara</td>
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<td>FNE09-668</td>
<td>Testing New Dwarfing Apple Rootstocks for the Northern Grower</td>
<td>$5,363</td>
<td>John O’Meara</td>
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<td>FNE09-671</td>
<td>Using Chickens and a Cover Crop Barrier for Weed Control in Organic Asparagus</td>
<td>$7,175</td>
<td>Marilyn Stanley</td>
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<tr>
<td>FNE09-673</td>
<td>The effect of biochar applications on soil fertility and crop production on a small vegetable farm in the Northeast US</td>
<td>$8,262</td>
<td>Sue Straubing</td>
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<tr>
<td>FNE09-674</td>
<td>Pasturing Hogs on Field Peas and Barley</td>
<td>$9,973</td>
<td>Hanne Tierney</td>
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<tr>
<td>FNE09-656</td>
<td>Pressing Spent Brewers Grains to improve its use as alternative feed: A Study of its effect on Dairy Sheep and Meat lambs</td>
<td>$9,992</td>
<td>Ells Perry</td>
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<tr>
<td>FNE09-663</td>
<td>Exploring Husbandry and Equipment Solutions to Infestations of Polydora sp. on a Maine Oyster Farm</td>
<td>$9,365</td>
<td>Jesse Leach</td>
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<tr>
<td>FNE09-665</td>
<td>A Comparison of Honey Bee Colony Strength and Survivability between Nucleus and Package Started Colonies</td>
<td>$9,993</td>
<td>Erin MacGregor-Forbes</td>
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<tr>
<td>FNE08-627</td>
<td>Production and nutrition of no-till drilling</td>
<td>$9,315</td>
<td>Gabe Clark</td>
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<td>FNE08-643</td>
<td>Growing and pressing sunflowers for organic livestock protein supplements</td>
<td>$9,273</td>
<td>Mia Morrison</td>
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<td>FNE08-644</td>
<td>Reduction of Imidacloprid resistance of Colorado potato beetles with an organic integrated pest management program</td>
<td>$5,110</td>
<td>Megan Patterson</td>
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<td>FNE07-600</td>
<td>Crop planning software for small diversified farms</td>
<td>$9,054</td>
<td>Clayton Carter</td>
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<td>Improving forage quality by seeding through liquid manure applications</td>
<td>$4,146</td>
<td>Roger Whitney</td>
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<td>FNE06-565</td>
<td>Corn silage pellet production</td>
<td>$6,000</td>
<td>David Barker</td>
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<td>FNE06-587</td>
<td>Growing winter spelt as an organic grain or forage for dairy cows</td>
<td>$4,172</td>
<td>Henry Perkins</td>
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<td>FNE05-540</td>
<td>Sunflowers as a methionine source for organic poultry production, sunflower hulling processes, and sunflower variety trial</td>
<td>$9,419</td>
<td>Catherine Albert</td>
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<td>FNE05-548</td>
<td>Tarnished plant bug scouting and control in organic annual day-neutral strawberry production in the Northeast</td>
<td>$9,160</td>
<td>Mark Jacoby</td>
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<td>FNE05-557</td>
<td>Evaluating organic feed quality for dairies</td>
<td>$10,000</td>
<td>Mia Morrison</td>
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<td>FNE05-558</td>
<td>Integration of winter barley with management intensive grazing</td>
<td>$3,859</td>
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<td>FNE05-559</td>
<td>Cedar: a control for varroa mites</td>
<td>$5,215</td>
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<td>FNE05-561</td>
<td>Monitored study of broomcorn growth in Hancock County, Maine</td>
<td>$3,682</td>
<td>Susan Sharpe</td>
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<td>FNE04-507</td>
<td>Using Ramial Wood Chips to Improve Fertility in a Fruit Tree Nursery</td>
<td>$2,232</td>
<td>Ann Currier</td>
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<td>FNE04-521</td>
<td>Evaluation, Comparison and Feasibility Study of Current Options in Cheese Aging Caves</td>
<td>$5,315</td>
<td>Warren Knight</td>
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<td>FNE04-527</td>
<td>Measuring the Effectiveness of Treating Lambs With Garlic at Various Rates for Internal Parasites Using the FAMACHA System</td>
<td>$6,000</td>
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<td>FNE04-528</td>
<td>Growing Weed-Free Strawberries</td>
<td>$1,989</td>
<td>David Pike</td>
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<td>FNE04-530</td>
<td>Use of a Polypropylene Fabric Cover as a Barrier to Egg-Deposition by Cranberry Fruitworm Acrobasis vaccinii (Riley)</td>
<td>$1,593</td>
<td>Ted Sparrow</td>
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<td>FNE03-483</td>
<td>Maine Mountain Creamery Advertising Project</td>
<td>$5,605</td>
<td>Dion Olmstead</td>
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<td>FNE03-485</td>
<td>Controlling Varroa Mites with Walnut Leaf Smoke</td>
<td>$8,682</td>
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<td>FNE03-495</td>
<td>Feasibility of a Farmer Marketing Group in Piscataquis County</td>
<td>$7,740</td>
<td>Lorraine Stultzman</td>
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<td>Broadcast Planting Techniques for Large Ginseng Acreage</td>
<td>$4,000</td>
<td>Felix Blinn</td>
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<td>FNE03-460</td>
<td>Determination of the Productive Capacity of the Damariscotta River for Farm-Raised Oysters (Crassostrea virginica)</td>
<td>$8,255</td>
<td>Christopher Davis</td>
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<td>FNE03-479</td>
<td>Portable Sheep Dairy</td>
<td>$9,611</td>
<td>Claire Mikolayunas</td>
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<td>FNE03-482</td>
<td>A Controlled Experiment to Measure the Effectiveness on Lambs of Wormers that Conform to the New Organic Standards</td>
<td>$7,600</td>
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<td>FNE02-431</td>
<td>Grazing Sheep in Organic Lowbush Blueberry Fields to Control Weeds and Increase Yields</td>
<td>$3,602</td>
<td>Kevin Poland</td>
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<td>Evaluating Grains Grown in Aroostook County, Maine to Determine the Feasibility of Producing a Locally Grown Poultry Feed</td>
<td>$2,134</td>
<td>Catherine Albert</td>
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<td>FNE02-432</td>
<td>Optimizing Forage Quality and Production on Depleted Farmland to Extend the Grazing Season Increase Yields</td>
<td>$7,283</td>
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<td>FNE02-401</td>
<td>Designing an Affordable Silage Wrapper for Small Farmers</td>
<td>$763</td>
<td>Benjamin Albert</td>
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<td>FNE02-441</td>
<td>Comparing the Input Costs and Economic Returns of a Planted Windbreak in Central Maine</td>
<td>$5,657</td>
<td>Ted Sparrow</td>
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<td>FNE02-403</td>
<td>Alternative Feed Source Guide</td>
<td>$9,191</td>
<td>Scott Bowdridge</td>
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<td>FNE02-406</td>
<td>Quinoa Introduction in the River Valley</td>
<td>$5,169</td>
<td>Norris Conant</td>
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<td>Project Aawre</td>
<td>$4,692</td>
<td>Jennifer Gunderman-King</td>
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<td>FNE02-422</td>
<td>Silvopasture</td>
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<td>FNE02-423</td>
<td>Fish Waste Utilization Project</td>
<td>$9,618</td>
<td>Robert Johanson</td>
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<td>FNE02-429</td>
<td>Green Manure Mulch and Cover Crop for Orchards</td>
<td>$2,691</td>
<td>Marilyn Meyerhans</td>
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<td>FNE01-390</td>
<td>Comparison of Green Manure Mixes in Relation to Nitrogen Immobilization &amp; Release</td>
<td>$3,450</td>
<td>Lucian Smith</td>
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Improving Financial Returns Early in an Orchard’s Life Through Alley Cropping. $11,100 Jack Kertesz

“Bird, Blossom, and Berry” subscription program. $7,583 Madeline Cantwell

Farmer-to-Market Website: A Meat Processing and Delivery Resource Survey $2,480 Perry Ells Kelmscott Rare Breed Foundation

Winter Wheat Trials with Response to Composts for Maine $4,900 Mark Fulford

An Alternative to Flooding for the Winter Protection of Cranberries in ME $4,938 Bert-Sid Look

Raspberry Mulch Evaluation $1,895 Chris Bailey The Morris Farm

Timing and Intensity of Cultivation and Effects on Weed Control $2,770 Gerald Fortin

Goldenseal Production for Sustainable Woodlot Management $4,125 Tom Griffin Woods End Farm

Integrated Approach in Controlling Japanese Beetles Project $4,117 George Joseph

Conservation of Wild Blueberry and Cranberry Pollinators $3,950 Sanford E. Kelley, Jr.

Field Trials of Ag Covers to Reduce Cranberry Fruitworm Damage $1,770 Michael McFarlane

Improving Production Methods for Shiitake Mushrooms $2,225 Carlton Woodward

Establishing and Enlarging on Maine Ginseng Production $6,000 Stephen Drane

Successful Marketing Through Product Identification/Packaging $3,500 Chris Holmes

Using Composted Paper Mill Wood Fiber Residual as a Mulch/Soil Amendment in Potato Production $2,974 Donald Fitzpatrick

The Development of Rhubarb Agriculture in Maine $3,200 Mark Jacoby

The Efficacy of Red Oak Sawdust as a Mulch to Control Grass and Weeds in Organic Wild Blueberries $2,827 Douglas Johnson

Dairy Farm Diversification/Waldo County, Maine $3,000 Jeffery Keene
FNE96-138 Sustainable Pollination of Wild Blueberry and Cranberry $4,880 Sanford E. Kelley, Jr.

FNE96-143 Broad Based Organic Control of Cranberry Fruit Worm $2,950 Michael McFarlane

FNE95-079 Developing a Sustainable Approach to Hop Production in Northeast $5,970 Jonathan Blumberg

FNE95-099 Best Methods of Establishing Newly Planted Cranberry Vine $2,080 Michael MacFarlane

FNE95-112 Once Daily Milking - Organic Dairy Herd $4,990 Gloria and Greg Varney

FNE94-037 Comparison of Organic Mulches for Perennial Quackgrass Control in Orchard Floor Management $642 Cynthia Anthony

FNE94-038 Minor Breed Turkeys – Growth Rate and Eating Qualities $980 Anne Bossi

FNE94-053 Feasibility and Propagation of Leafcutter Bee in Maine $922 John Russell

FNE94-037 Evaluation of a Fiber Flax Production System as a Low Input, Alternative Crop for Northern New England $5,000 Greg Ward

FNE93-024 Cranberry 2000 $6,250 Darin Hammond

FNE93-009 Evaluation of the Economic and Environmental Impact of Amino Acid Based Laying Rations $660 Charles Wallace

FNE93-010 Nutrient Management For Potatoes Used for Potato Chips $5,000 Carl D. Smith

**GRADUATE STUDENT GRANTS**

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<td>GNE19-194</td>
<td>Analyzing Early Growth Characteristics and Anchorage Force to Improve Cultivation Tolerance in Carrots</td>
<td>$14,683</td>
<td>Dr. Eric Gallandt&lt;br&gt;University of Maine&lt;br&gt;Rebecca Champagne&lt;br&gt;The University of Maine</td>
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<td>GNE19-218</td>
<td>Automated Net Return Mapping: Using Inexpensive Technology for Maximizing Profit of Small-Scale Farms</td>
<td>$14,806</td>
<td>Dr. Eric Gallandt&lt;br&gt;University of Maine&lt;br&gt;Johnny Sanchez&lt;br&gt;University of Maine</td>
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<td>GNE18-172</td>
<td>Improving Productivity of Casco Bay Kelp Farms Using Spatiotemporal Analysis of Coastal Nutrient Data</td>
<td>$14,754</td>
<td>Dr. Damian Brady&lt;br&gt;University of Maine&lt;br&gt;Gretchen Grebe&lt;br&gt;University of Maine</td>
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<td>GNE18-184</td>
<td>Innovative Resources for Small Ruminant Health</td>
<td>$15,000</td>
<td>Anne Lichtenwalner, DVM PhD&lt;br&gt;University of Maine&lt;br&gt;Sarah Paluso&lt;br&gt;University of Maine</td>
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| GNE15-110  | Bioactive compounds in farm-raised sea vegetables                             | $7,616       | Dr. Denise Skonberg  
Dhriti Nayyar  
University of Maine |
| GNE14-072  | Balancing economy and ecology: A systems comparison of leading organic weed management strategies | $13,147      | Dr. Eric Gallandt  
Dr. Jianjun Hao  
Dr. Aaron Hoshide  
Bryan Brown  
University of Maine |
| GNE14-074  | Genetic comparisons of temperature tolerances of a candidate sea vegetable crop, Alaria esculenta | $14,992      | Susan Brawley  
Charlotte Quigley  
University of Maine |
| GNE14-076  | Increasing parameter accuracy of an agriculturally focused, spatially-explicit bee abundance model | $14,652      | Frank A. Drummond  
Dr. Cynthia Loftin  
Brianne Du Clos  
University of Maine |
| GNE13-053  | The effects of dietary imidacloprid on bumblebee health in lowbush blueberry fields in Maine | $14,082      | Dr. Samuel Hanes  
Kourtney Collum  
University of Maine |
| GNE13-055  | Integrating social and natural science to improve pollination outreach and education for farmers | $13,545      | Dr. Eric Gallandt  
Benjamin Costanzi  
University of Maine |
| GNE13-069  | Factors contributing to low embryo survival in Atlantic salmon (Salmo salar)     | $14,989      | LeeAnne Thayer  
University of Maine |
| GNE11-016  | Farm-Grown Microbial Soil Inoculants: Effects on Bread Wheat Yield and Quality | $9,767       | Dr. Eric Gallandt  
Aaron Englander  
University of Maine |
| GNE10-001  | Assessing the Direct Effect of Disease-Suppressive Soil Amendments on Rhizoctonia solani | $9,430       | Stellos Tavantzis  
Edvard Bernard  
University of Maine |
| GNE10-004  | Improving Weed Control on the Small Farm: Evaluation of Scale-Appropriate Cultivation Tools | $8,700       | Dr. Eric Gallandt  
Benjamin Costanzi  
University of Maine |

**ON FARM RESEARCH/PARTNERSHIP GRANTS**

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University of Maine Cooperative Extension |
| ONE20-356  | Development of Integrated Seaweed and Green Sea Urchin Aquaculture for Diversification of Sea Farms in the Northeast | $29,985      | Andrea Angera, Jr.  
Maine Seaweed Exchange |
| ONE20-359  | Improving Shelf Life of Fresh Pack Maine Wild Blueberries                      | $28,270      | Dr. Lily Calderwood  
Marjorie Peronto  
University of Maine Cooperative Extension |
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<td>ONE19-334</td>
<td>Maine Climate Resilience Training Program</td>
<td>$29,787</td>
<td>Ryan Dennett</td>
<td>Maine Organic Farmers and Gardeners Association</td>
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<td>ONE19-341</td>
<td>Expanding Quahog and Oyster Polyculture in Maine</td>
<td>$29,575</td>
<td>Dr. Marissa McMahan</td>
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<td>ONE18-322</td>
<td>More Maine Meat Chain of Custody Project</td>
<td>$14,998</td>
<td>Tanya Swain</td>
<td>Maine Sustainable Agriculture Society</td>
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<td>ONE17-306</td>
<td>A histopathological-biochemical health and condition assessment of farmed blue mussels in a changing Gulf of Maine</td>
<td>$14,233</td>
<td>Adam St. Gelais</td>
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<td>ONE16-270</td>
<td>Effects of non-NPK organic soil amendments on yield and quality of vegetable crops</td>
<td>$10,197</td>
<td>John Paul Rietz</td>
<td>Organic Growers Supply (Fedco)</td>
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<td>ONE16-283c</td>
<td>Investigating methods of preventing soil loss in a potato:grain rotation system using cover and nurse crops</td>
<td>$9,866</td>
<td>Dr. John Jemison, Jr.</td>
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<td>ONE16-268</td>
<td>Pilot aquaculture production of sea scallops (Placopecten magellanicus) in Maine, Japanese technique</td>
<td>$14,665</td>
<td>Dana Morse</td>
<td>Maine Sea Grant and University of Maine Cooperative Extension</td>
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<td>ONE14-203</td>
<td>High-tannin pasture plantings</td>
<td>$9,758</td>
<td>Diane Schivera</td>
<td>Maine Organic Farmers and Gardeners Association</td>
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<td>ONE14-204</td>
<td>Hancock County Gleaning Initiative</td>
<td>$14,850</td>
<td>Katie Freedman</td>
<td>Healthy Acadia</td>
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<td>ONE13-187</td>
<td>Potential of coppiced alder as an on-farm source of fertility for vegetable production</td>
<td>$14,896</td>
<td>Dr. Suzanne Morse</td>
<td>College of the Atlantic</td>
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<td>ONE13-195</td>
<td>Linking limited-resource immigrant farmers to EQIP programs</td>
<td>$14,565</td>
<td>Daniel Ungier</td>
<td>Cultivating Community</td>
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<td>ONE12-164</td>
<td>Farm-based control measures for caseous lymphadenitis in small ruminants: Offering a choice to the producer</td>
<td>$14,969</td>
<td>Anne Lichtenwalner, DVM PhD</td>
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<td>ONE11-141</td>
<td>Fall Flame Weeding: Targeting weed seeds before they enter the seedbank</td>
<td>$12,238</td>
<td>Dr. Eric Gallandt</td>
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<td>ONE09-109</td>
<td>On-farm Colonization of tomatoes by Mycorrhizal Fungi, phase 2</td>
<td>$8,307</td>
<td>Frank Wertheim</td>
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<td>ONE09-098</td>
<td>Evaluation of Scale-Appropriate Weed Control Tools for the Small Farm</td>
<td>$9,236</td>
<td>Dr. Eric Gallandt</td>
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<td>ONE09-103</td>
<td>Grafting hoophouse tomatoes for improved yields and profitability</td>
<td>$9,525</td>
<td>Dr. Mark Hutton</td>
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<td>ONE08-088</td>
<td>Oregano oil for internal parasite control in sheep, goats, and beef cattle</td>
<td>$9,914</td>
<td>Diane Schivera</td>
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<td>ONE08-091</td>
<td>On-Farm Colonization of Tomatoes by AM Fungi</td>
<td>$4,055</td>
<td>Frank Wertheim</td>
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ONE07-073  Evaluation of various recipes and ingredients for composting aquaculture fish waste to attain a stable, high-nitrogen end product  $9,995  Dr. Mike Pietrak  USDA National Cold Water Marine Aquaculture Center

ONE05-041  Evaluation of silver reflective mulch, white inter-row mulch, and plant spacing for increasing yields of bell pepper  $9,167  Dr. Mark Hutton  University of Maine Coope

ONE05-044  MOFGA’s Farm Training Project: Workshops for Farm Apprentices and Other New and Beginning Farmers  $6,560  Andrew Marshall  Maine Organic Farmers and Gardeners Association

ONE05-048  Pilot production of biodiesel from canola in New England  $9,925  Peter Sexton  University of Maine Cooperative Extension

ONE05-038  Adopting pre-sidedress nitrogen testing to minimize nitrate application in sweet corn and pumpkins  $8,010  David Handley  University of Maine Cooperative Extension

ONE05-040  Evaluation of forage soybeans to provide simultaneous benefits: A high-protein dairy forage and a legume cover crop?  $9,800  Mark Hutchinson  University of Maine Extension

ONE04-025  Managing Smooth Bedstraw (Galium mollugo L.) in Forage Crops  $7,405  Richard Kersbergen  University of Maine Cooperative Extension

ONE03-007  The effect of food processing waste on cover crop growth and subsequent cash crop production in a certified organic vegetable operation  $9,930  Mark Hutchinson  University of Maine Extension

SUSTAINABLE COMMUNITY INNOVATION GRANTS

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<td>CNE13-109</td>
<td>Maine Grain Alliance Farmer/Baker/Miller Workshops</td>
<td>$6,574</td>
<td>Amber Lambke, Maine Grain Alliance, Harald Dowse, Maine Grain Alliance</td>
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<td>CNE12-095</td>
<td>Southern Somerset Local Foods Connection</td>
<td>$15,000</td>
<td>Paula Day, Maine Alternative Agriculture Association</td>
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<td>CNE10-068</td>
<td>School-Supported Agriculture for Downeast Maine</td>
<td>$14,957</td>
<td>Katie Freedman, Healthy Acadia</td>
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<td>CNE09-061</td>
<td>Recipes for success: Empowering farmers, leveraging resources, building community</td>
<td>$23,446</td>
<td>Craig Lapine, Cultivating Community</td>
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<td>CNE09-062</td>
<td>Maine Fiberarts Online Tour Map: Studios and Farms, 2009-2012</td>
<td>$24,378</td>
<td>Christine Macchi, Maine Fiberarts</td>
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<td>CNE08-046</td>
<td>Maine Beef Producers Association executive director position</td>
<td>$10,000</td>
<td>Pamela Harnden, Maine Beef Producers Association</td>
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<td>CNE08-050</td>
<td>Downeast Maine Farm to School</td>
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<td>Doug Michael, Healthy Acadia Coalition</td>
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<td>CNE08-054</td>
<td>Get Fresh Net</td>
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<td>Tanya Swain, Western Mountains Alliance</td>
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<td>CNE07-030</td>
<td>Lots to gardens</td>
<td>$10,000</td>
<td>Kirsten Walter&lt;br&gt;Lots to Gardens</td>
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<td>CNE06-005</td>
<td>Town of Rumford community and economic development planning for agriculture</td>
<td>$10,000</td>
<td>Mark Hews&lt;br&gt;Threshold To Maine RC&amp;D Area</td>
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<td>CNE06-012</td>
<td>Farm to School in Hancock County</td>
<td>$9,965</td>
<td>Doug Michael&lt;br&gt;Healthy Acadia Coalition&lt;br&gt;Heather Albert-Knopp&lt;br&gt;Healthy Acadia Coalition</td>
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<td>CNE06-016</td>
<td>Passamaquoddy youth wild berry package development</td>
<td>$8,881</td>
<td>Deirdre Whitehead&lt;br&gt;Passamaquoddy Tribe</td>
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**Total funding from the USDA SARE program to Maine**

$6,490,963

For further information on projects, contact Deb Heleba, Northeast SARE communications specialist, at 802-651-8335, ext 552 or debra.heleba@uvm.edu. Sustainable Agriculture Research and Education (SARE) is funded by USDA’s National Institute of Food and Agriculture (NIFA).