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, grantee-produced information products and other educational materials.

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

Vermont

Project Highlight: Establishing populations of ground-nesting native bees (Colletes) for orchard pollination services

In Jeffersonville, Vermont, John Hayden of The Farm Between is leading a group of researchers to try and improve native bee pollination services in Northeastern orchards. Unfortunately, due to climate change and other environmental factors, pollinator populations are declining, leading many farmers to worry about the pollination and production of spring flowering crops. To address this, Hayden and his team attempted to create suitable habitats for native ground nesting bee species, such as the Colletes bee, in hopes of managing production and improving crop yield.

After obtaining a SARE grant, Hayden was able to fund the testing of three experimental methods to determine if they would be able to establish native bee populations. These methods included 1) attempting to naturally bring in bees by removing vegetation and creating sand patches, 2) bringing newly emerged and captured adult bees to the orchards and 3) digging up bee pupae from heavily populated areas and bringing them to the orchards. The researchers faced many challenges throughout the experiment; however, they were able to gain a new understanding of the intricacies behind bee habitats. This research provides a solid foundation for producers looking to enhance their awareness of management practices for maintaining local pollinators.

For more information on this project, see sare.org/projects and search for project number FNE17-871.

SARE in Vermont

northeast.sare.org/state-profiles/vermont/

$4,189,773 in total funding

67 grant project

(since 1988)

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

**Grants awarded**

**2019–2024**

Total awards: **67 grants**

- 14 Farmer/Rancher
- 10 Research and Education
- 2 Professional Development Program
- 27 On Farm Research/Partnership
- 8 Graduate Student
- 6 Research Only

Total funding: **$4,189,773**

- $243,887 Farmer/Rancher
- $1,628,537 Research and Education
- $334,410 Professional Development Program
- $769,440 On Farm Research/Partnership
- $116,875 Graduate Student
- $1,096,624 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:

**21,244 farmers participated in a SARE-funded project**

**1,878 farmers reported a change in knowledge, awareness, skills or attitude**

**476 farmers changed a practice**

Learn about local impacts at: [northeast.sare.org/sare-in-your-state/vermont/](northeast.sare.org/sare-in-your-state/vermont/)

**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/vermont/](northeast.sare.org/state-profiles/vermont/) to learn more.

Beth Holtzman
University of Vermont
(802) 476-2003
beth.holtzman@uvm.edu

For detailed information on SARE projects, go to [www.SARE.org](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.
Vermont has been awarded $12,284,628 grants to support 307 projects, including but not limited to, 52 research and/or education projects, 20 professional development projects and 111 producer-led projects. Vermont has also received additional SARE support through multi-state projects.

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
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<tbody>
<tr>
<td>LNE23-465</td>
<td>Evaluation of Delayed Potato Planting for the Management of Insect and Disease Incidence on Northeastern Diversified Farms</td>
<td>$188,658</td>
<td>Victor Izzo University of Vermont</td>
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<td>LNE22-437</td>
<td>Capturing Value with Cereal Rye: Growing High Quality Rye in the Northeast for Value-Added Markets</td>
<td>$247,241</td>
<td>Dr. Heather Darby University of Vermont Extension</td>
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<td>LNE22-445</td>
<td>Supporting New High-Tunnel Vegetable Growers with a Comprehensive Crop Management Approach</td>
<td>$199,688</td>
<td>Dr. Margaret Skinner University of Vermont</td>
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<td>LNE22-439</td>
<td>Scaling Northeastern Agroforestry using a Farmer-centered Field Consultancy Model</td>
<td>$68,363</td>
<td>Meghan Giroux Interlace Commons</td>
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<td>LNE22-438</td>
<td>Online Educational &quot;Hub&quot; for Migrant Farmworkers</td>
<td>$261,372</td>
<td>Sarah Kleinman University of Vermont Extension</td>
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<td>LNE21-414</td>
<td>Improving Pasture Resource Management with Farmer-Engaged Planning – Part 2</td>
<td>$85,346</td>
<td>Cheryl Cesario UVM Extension</td>
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<td>LNE20-400</td>
<td>Biological and Cultural Tactics for the Control of Wireworms in Root Crops</td>
<td>$116,189</td>
<td>Victor Izzo University of Vermont</td>
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<td>LNE19-373</td>
<td>New England Cider Apple Program: Optimizing Production for High-Value Markets</td>
<td>$229,314</td>
<td>Dr. Terence Bradshaw University of Vermont</td>
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<td>LNE19-375</td>
<td>Staying Ahead in the Packshed: Improving Postharvest Equipment and Building Guidance for Fruit and Vegetable Farms</td>
<td>$129,567</td>
<td>Christopher Callahan University of Vermont Extension</td>
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<td>Project Code</td>
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<td>LNE19-379</td>
<td>Pre- and Post-Harvest Strategies for Leek Moth Control on Diversified Vegetable Farms</td>
<td>$102,799</td>
<td>Victor Izzo</td>
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<td>LNE18-361</td>
<td>Developing Corn Silage Systems to Meet the Needs of Cover Crops</td>
<td>$196,108</td>
<td>Dr.Heather Darby</td>
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<td>LNE17-355</td>
<td>Improving pasture resource management with farmer-engaged planning</td>
<td>$91,852</td>
<td>Cheryl Cesario</td>
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<tr>
<td>LNE16-347</td>
<td>The “In-Between”: Precooling and curing fruits and vegetables for improved quality and profit</td>
<td>$129,514</td>
<td>Christopher Callahan</td>
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<td>LNE16-348</td>
<td>Development of pest and nutrient management strategies for hop production in the Northeast</td>
<td>$161,412</td>
<td>Dr.Heather Darby</td>
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<td>LNE15-339</td>
<td>Developing best management practice for growing grain suitable for malt in the Northeast</td>
<td>$177,442</td>
<td>Dr.Heather Darby</td>
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<td>LNE13-326</td>
<td>Improving profits for maple producers through tubing sanitation</td>
<td>$175,726</td>
<td>Dr.Timothy Perkins</td>
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<td>LNE12-317</td>
<td>Using winter canola and high-glucosinolate mustards to protect and improve soil resources and enhance on-farm profitability</td>
<td>$146,890</td>
<td>Dr.John Jemison, Jr.</td>
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<td>LNE11-309</td>
<td>Adding Value to Oilseed Crops by Producing Food Quality Oils</td>
<td>$143,131</td>
<td>Dr.Douglas Schaufler</td>
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<td>LNE10-299</td>
<td>Novel approaches to improve energy efficiency in northern New England greenhouses</td>
<td>$195,781</td>
<td>Dr.Bruce L. Parker</td>
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<td>LNE09-278</td>
<td>Northeast SARE program evaluation, Sustainable Community Grants</td>
<td>$15,000</td>
<td>Susan Smalley</td>
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<td>LNE09-280</td>
<td>Marketing on-farm compost for sustainability and economic viability</td>
<td>$43,258</td>
<td>Athena Bradley</td>
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<tr>
<td>LNE09-282</td>
<td>Improving oilseed production and harvesting practices in New England: A farmer-to-Farmer exchange</td>
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<td>Dr.Heather Darby</td>
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| LNE09-283    | Integrated learning courses for organic and sustainable vegetable production | $158,961 | Enid Wonnacott  
Northeast Organic Farming Association of Vermont  
Dr. Wendy Sue Harper  
Northeast Organic Farming Association of Vermont |
| LNE08-267    | Increasing Farm Profitability through Agritourism Product Development and Marketing | $89,563 | Dr. Lisa Chase  
University of Vermont Ext |
| LNE07-254    | Improving pasture management for horses | $60,210 | Rachel Gilker  
UVM Center for Sustainable Agriculture |
| LNE07-260    | Burlington Food Hub: Innovative direct marketing opportunities | $98,429 | Glenn McRae  
Intervale Center  
Travis Marcotte  
Intervale Center |
| LNE07-266    | Vegetable seed growing handbook | $26,441 | John Navazio  
SEEDS  
Margo Baldwin  
Chelsea Green Publishing |
| LNE06-243    | Dairy stewardship alliance: On-farm assessment for sustainable practices | $86,157 | Allen Matthews  
UVM Center for Sustainable Agriculture  
Allen Matthews  
Chatham University |
| LNE05-233    | Community market project | $94,746 | Enid Wonnacott  
Northeast Organic Farming Association of Vermont |
| LNE04-200    | Implementing Dairy Goat Nutrition Programs on Farms for Improved Sustainability | $135,246 | Carol Delaney  
University of Vermont, Northeast SARE |
| LNE04-205    | Developing Sustainable Local Food Sales to a College Institutional Market | $51,500 | Lisa Johnson  
Vital Communities |
| LNE03-184    | Integrated learning courses for sustainable livestock production | $123,216 | Lisa McCrory  
Northeast Organic Farming Association of Vermont |
| LNE03-185    | Pasture forage quality and yield response to irrigation, N fertilizer, and organic amendments | $69,852 | William Murphy  
University of Vermont |
| LNE03-186    | Seed Growers' Handbook: Producing Vegetable Seeds for Sustainable Agriculture | $62,925 | John Navazio  
SEEDS |
| LNE03-187    | Vermont Food Education Every Day (VTFEED) | $131,547 | Abbie Nelson  
Northeast Organic Farming Association of VT |
<table>
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<tr>
<th>Project ID</th>
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<th>Funding</th>
<th>Principal Investigator</th>
<th>Institution</th>
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<td>LNE99-124</td>
<td>VT Forest Products Industry Conference</td>
<td>$10,000</td>
<td>Mary Jeanne Packer</td>
<td>VT Wood Manufacturers Association</td>
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<td>LNE98-104</td>
<td>Controlling Pests of Pastured Livestock on Organic Farms</td>
<td>$32,590</td>
<td>William Murphy</td>
<td>University of Vermont</td>
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<td>LNE97-087</td>
<td>Managed Riparian Buffer Zones and Cover Crops to Minimize Phosphorus and Nitrogen Runoff Losses from Corn Fields</td>
<td>$142,448</td>
<td>Bill Jokela</td>
<td>University of Vermont</td>
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<td>LNE97-097</td>
<td>Documentation of Organic and Transitional Dairy Production Practices</td>
<td>$43,986</td>
<td>Enid Wonnacott</td>
<td>Northeast Organic Farming Association of Vermont</td>
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<td>LNE96-066</td>
<td>Evaluating a Heat Therapeutic Control of the Honey Bee Mite Varroa Destructor</td>
<td>$20,000</td>
<td>Jeffrey T. Cunningham</td>
<td>Honeyhunter Apiaries and Farm</td>
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<td>LNE96-075</td>
<td>Northeast Kingdom Nutrient Management Project</td>
<td>$18,920</td>
<td>David Machell</td>
<td>Caledonia County NRCD</td>
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<td>LNE96-079</td>
<td>New England Sustainable Agriculture Conference - 1997</td>
<td>$36,478</td>
<td>Kate Duesterberg</td>
<td>Center for Sustainable Agriculture, University of Vermont</td>
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<td>ANE95-023</td>
<td>Development of Fungal Entomopathogens for Greenhouse IPM (LNE95-058)</td>
<td>$231,931</td>
<td>Dr.Bruce L. Parker</td>
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<td>LNE95-053</td>
<td>An Economic Analysis of Community Supported Agriculture Consumers</td>
<td>$2,960</td>
<td>Jane Kolodinsky</td>
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<td>LNE95-054</td>
<td>Expanding Profits for Sheep Production Through Intensive Pasture Management</td>
<td>$82,427</td>
<td>Kate Duesterberg</td>
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<td>LNE95-058</td>
<td>Development of Fungal Entomopathogens for Greenhouse IPM (ANE95-23)</td>
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<td>LNE94-047</td>
<td>Expanding Profits for Vermont Sheep Production through Intensive Pasture Management</td>
<td>$10,000</td>
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<td>LNE93-039</td>
<td>Systems Analysis of Organic and Transitional Dairy Production</td>
<td>$165,000</td>
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<tr>
<td>LNE92-033</td>
<td>Fungal Pathogens for Biocontrol of Western Flower Thrips and Green Peach Aphids in Greenhouses</td>
<td>$79,709</td>
<td>Dr.Bruce L. Parker</td>
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<td>LNE89-017</td>
<td>Improving Milk Quality and Animal Health By Efficient Pasture Management</td>
<td>$58,000</td>
<td>J. Woodrow Pankey</td>
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<td>LNE88-002</td>
<td>Improving Farm Profitability by Efficiently Using the Pasture Resource</td>
<td>$537,265</td>
<td>William Murphy</td>
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### RESEARCH ONLY GRANTS

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<tr>
<td>LNE22-456R</td>
<td>Culturally Meaningful, Regionally Adapted Seed: Making the Ujamaa Cooperative Farmers Alliance Market Ready</td>
<td>$199,552</td>
<td>Daniel Tobin</td>
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<tr>
<td>LNE22-450R</td>
<td>Development of Above and Below Ground Strategies Using Entomopathogenic Fungi and RNAi Technologies for the Control of Root Crop Pests</td>
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<tr>
<td>LNE22-453R</td>
<td>Biochar from Biosolids and Source Separated Human Urine: Soil Health Impacts and Farmer Perspectives</td>
<td>$175,724</td>
<td>Abraham Noe-Hays</td>
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<td>Rich Earth Institute</td>
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<tr>
<td>LNE22-454R</td>
<td>Vertical Bifacial Solar Panels: A Winning Solution for Agrivoltaics and Farmers</td>
<td>$199,998</td>
<td>Dr.Bruce L. Parker</td>
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<tr>
<td>LNE21-428R</td>
<td>Improving the Capacity of Pea Cover Crops to Enhance Soil Health</td>
<td>$196,658</td>
<td>Dr.Eric Bishop-von Wettberg</td>
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<tr>
<td>LNE19-391R</td>
<td>Turn the Tap: Integrated Research to Support Sustainable Irrigation Practices on Northeast Vegetable Farms</td>
<td>$124,982</td>
<td>Dr.Joshua Faulkner</td>
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<tr>
<td>LNE18-368R</td>
<td>Potential for a Pheromone Mating Disruption Program for the Invasive Swede Midge within Complex Annual Rotational Systems</td>
<td>$199,854</td>
<td>Dr.Yolanda Chen</td>
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### PROFESSIONAL DEVELOPMENT PROGRAM GRANTS

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<td>ENE23-182</td>
<td>Agronomic Principles for Hayland and Pasture Management Education Program and Forage &amp; Grazing Technical Assistance Professional Development Cohort</td>
<td>$149,039</td>
<td>Andrew May</td>
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<td>ENE20-159</td>
<td>Developing Technical Skills of Service Providers in the Northeast to Assist Farmers with Production of Industrial Hemp</td>
<td>$185,371</td>
<td>Dr. Heather Darby</td>
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<tr>
<td>ENE18-149</td>
<td>Developing Technical Skills of Service Providers in the Northeast to Assist Farmers with Transition to No-Till</td>
<td>$171,222</td>
<td>Dr. Heather Darby</td>
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<td>ENE14-130</td>
<td>Professional development project in weed and forage identification and management</td>
<td>$98,303</td>
<td>Dr. Sid Bosworth</td>
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<td>ENE13-127</td>
<td>Breaking Barriers: Building Capacity to Provide Tractor Education</td>
<td>$89,681</td>
<td>Beth Holtzman</td>
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<td>ENE08-107</td>
<td>Focusing on Beginning Farmers</td>
<td>$71,640</td>
<td>Beth Holtzman</td>
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<td>ENE06-097</td>
<td>A video on sustainable tillage practices for vegetable farms</td>
<td>$99,504</td>
<td>Dr. Vern Grubinger</td>
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<td>ENE06-098</td>
<td>Education to extension agents, veterinarians, and other professionals in complementary treatments and preventive management for organic livestock farms</td>
<td>$116,962</td>
<td>Lisa McCrory</td>
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<td>ENE05-091</td>
<td>Climate change and agriculture: Preparing educators to promote practical and profitable responses</td>
<td>$113,106</td>
<td>Dr. Vern Grubinger</td>
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<td>ENE04-083</td>
<td>A Legal Guide to the Business of Farming in Vermont</td>
<td>$59,069</td>
<td>Debra Heleba</td>
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<td>ENE03-074</td>
<td>A video on vegetable farmers and their innovative cover crop techniques</td>
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<td>ENE01-059</td>
<td>A Professional Development Conference on Organic Agriculture</td>
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<td>ENE99-047</td>
<td>A Video on Ecological Sweet Corn Production</td>
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<td>ENE97-030</td>
<td>Video of Innovations in On-Farm Marketing in New England</td>
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<td>Development of Dairy Farm Management Groups in Vermont and New Hampshire</td>
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<td>ENE95-008</td>
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<td>A Video Training on Cultivation Featuring Talented Farmers - Their Weed Control Machines</td>
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<td>Developing a Northeast Pasture User Support Group Network to Sustain Agriculture</td>
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**FARMER/RANCHER GRANTS**

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<td>FNE24-088</td>
<td>Testing hyperthermia as Varroa mite and virus control in honeybee colonies</td>
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<td>Andrew Munkres Lemon Fair Honeyworks</td>
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<td>FNE24-076</td>
<td>Assessing the Impact of Thyme Nectar and Pollen on Honeybee Health</td>
<td>$23,170</td>
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<td>Selective Harvesting of Male and Female Fiber Hemp Plants and Water Retting Experiments for the Production of High-Quality, Long-Line Hemp Bast Fiber</td>
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<td>Inoculated Deep Litter System for Cold Climates</td>
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<td>FNE23-044</td>
<td>Monitoring and Management of Plum Curculio in Apple Using Odor-baited Trap Trees</td>
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<td>FNE23-042</td>
<td>Establishment and Evaluation of Deep-Rooted Perennial Cup Plant and Gamagrass as a Corn Silage Alternative in Dairy Systems</td>
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<td>FNE22-002</td>
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<td>FNE22-027</td>
<td>Enhancing Health Benefits of Pasture Raised Lamb, Pork, and Chicken Utilizing Organic Fish Hydrolysate and Compost Supplementation</td>
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<td>Evaluating Weed Suppression for Saffron Production: Manual, Flame Weeding, Tarping, and Cover Crops</td>
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<td>FNE21-984</td>
<td>Solarization or Occultation? Optimizing Tarping for Soil Health and Productivity in No-Till Vegetable Production</td>
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<td>Evaluation of Apple Cultivars for Hard Cider Production in the Northeast</td>
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<td>Feasibility of Integrating Sheep into Vermont Vineyards: An Initial Look at Ecologic and Economic Benefits</td>
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<td>Comparing Management-Intensive Rotational Grazing Strategies to Enhance Land Regeneration and Farmer Livelihood</td>
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<td>FNE18-895</td>
<td>Seakale: Commercial Opportunities for New Perennial Crops and Climate Smart Agriculture</td>
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<td>Establishing populations of ground-nesting native bees (Colletes) for orchard pollination services</td>
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<td>FNE16-840</td>
<td>Comparison of a commercial Varroa mite honeybee treatment with treatment-free Varroa management techniques</td>
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<td>Screening broccoli cultivars for Swede midge tolerance</td>
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<td>Testing an aerated static pile (ASP) compost system for efficiency of time and space</td>
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<td>An enterprise analysis of three organic strawberry production systems in northeastern Vermont</td>
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<td>Wet rice organic weed control trials</td>
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<td>FNE15-817</td>
<td>Mustard cover crops as biofumigants for organic strawberry production</td>
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<td>Economics of pasture and forage in the production of geese</td>
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<td>Effective use of food scraps as poultry feed</td>
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<td>Evaluation of apple and pear varieties for cold humid climates under certified organic management</td>
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<td>Investigating ways to improve native pollinator floral resources by comparing multipurpose cover crops of Phacelia, buckwheat, and a commercial bee forage mix</td>
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<td>FNE12-764</td>
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<td>Cost-benefit analysis of inoculating blueberry bushes with ericoid mycorrhizae</td>
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<td>FNE11-703</td>
<td>From Seed to Sugar: A Vertically-Integrated Model for Small-Scale Turbinado Sugar Production from Organic GMO-Free Beets</td>
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<td>Soil Nutrition and Fertility Options for Organic Hop Growers in the Northeast</td>
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<td>The farmer-built Savonius rotor: A low-tech approach to renewable power for farms</td>
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<td>Comparing Fingerling Potato Cropping Methods on No-Till Raised Beds</td>
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<td>Building and evaluating a pedal powered prone workstation and row crop cultivation tool</td>
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<td>A Vermont farmers breeding club: developing varieties that work for us</td>
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<td>Organic edible soybean variety trials in northern Vermont for soymilk and tofu</td>
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<td>Sugarhouse effluent viability as a greenhouse heat source</td>
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<td>Powering a sugarhouse with used vegetable oil</td>
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<td>Feasibility of organic wool production in Vermont: Testing market demand</td>
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<td>Mustard green seed crop production</td>
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<td>Matted row strawberries planted into weed suppressing cover crops</td>
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<td>A comparison of biodegradable mulches to black plastic mulch</td>
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<td>Educational plan for alternative manure management system</td>
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<td>Agronomic and Economic Effects of Harvesting Legume Cover Crops at Varying Maturities</td>
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<td>Integrated Salad Green and Dairy Production</td>
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<td>Legume Interseed in Field Corn-2004</td>
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<td>Cost of Producing Bio-Diesel to Fuel a Greenhouse</td>
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<td>Organic Plug Production: Evaluating Growing Media, Fertilizer and Economic Feasibility</td>
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<td>Rearing Free Mated Mite-Tolerant Queens Without Chemotherapies</td>
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<td>Effect of Different Grazing Systems on Dairy Goat Productivity</td>
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<td>Investigating the Commercial Viability of Growing Organic Black Currants in the Northeast</td>
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<td>Adaptation of the Cornell Net Carbohydrate and Protein System to Northeast Sheep Dairy Operations</td>
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<td>Three Sisters Farm</td>
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<td>pH and Calcium Requirement in Woods-Grown Organic Goldenseal Hydrastis Canadensis L.</td>
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<td>No-Till Reduction or Elimination of Major Equipment for the Small-Scale Farmer</td>
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<td>Effect of Different Grazing Systems on Dairy Goat Productivity</td>
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<td>Managed Rotational Grazing in Wetland Area</td>
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<td>Planting Strawberries -; Blueberries Into Oats - White Clover</td>
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<td>Northern meat breeders cooperative plan.</td>
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<td>Using Milkhouse Waste Water for Alternative Cash Crop</td>
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<td>Evaluating the Effectiveness of Non-Chemical Methods in the Control of Tarnished Plant Bug in Strawberries</td>
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<td>On-Farm Impacts of Soybean Silage in an Annual Rotation with Corn Silage</td>
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<td>Development of NOFA Certified Pastured Poultry Contractual Company to Diversify and Revitalize Vermont Agricultural Industry</td>
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<td>Education of Public in the Use of Native Woodland Plants and Wildflowers in the Home Garden</td>
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<td>Diversifying an Organic Grain System: Spring Wheat - Edible Bean Variety Trials...</td>
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<td>Sorghum Syrup Production in Vermont (FNE96-157)</td>
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<td>Agri-Tourism: Educating the Public and Generating On-Farm Income</td>
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<td>Sorghum Syrup Production in Vermont</td>
<td>$5,875</td>
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<td>FNE95-086</td>
<td>The Value of Low Maintenance Turfgrass for Cut Flower Production</td>
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<td>Covercropping Strategies for the Intercropping of Clovers with Corn and Cereal</td>
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<td>Warm Season Legumes as an Alternative Forage in the Northeast United States</td>
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<td>GNE22-291</td>
<td>Vermont Farmers’ Land Ethics: Stories from the Ground Up</td>
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<td>GNE22-295</td>
<td>Effect of Mycorrhizal Fungi on Blueberry Fruit Anthocyanin Content</td>
<td>$14,938</td>
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<td>GNE21-250</td>
<td>Quantifying How Soil Aggregate Size Impacts Nitrous Oxide Emissions from Manure Injection</td>
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<td>GNE21-271</td>
<td>Developing a plant-based attractant to trap swede midge, Contarinia nasturtii (Diptera: Cecidomyiidae)</td>
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<td>Dr.Yolanda Chen&lt;br&gt;University of Vermont&lt;br&gt;Andrea Campbell&lt;br&gt;The University of Vermont</td>
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<td>GNE21-259</td>
<td>Integrating Vermont Farmer and Service Provider Knowledges Using Co-Created Mental Models of Soil Health</td>
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<td>GNE20-228</td>
<td>Beguiling Flowers: Exploring the Role Flowers Play in Pollinator Exposure to Pesticides</td>
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<td>Alison Brody&lt;br&gt;University of Vermont&lt;br&gt;Jessica Cole&lt;br&gt;University of Vermont</td>
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<td>GNE19-205</td>
<td>Impacts of Silage Tarps on Soil Arthropods, Soil Properties and Crop Yields</td>
<td>$15,000</td>
<td>Gillian Galford&lt;br&gt;University of Vermont&lt;br&gt;Eva Kinnebrew&lt;br&gt;University of Vermont</td>
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<td>GNE18-179</td>
<td>Improving the Rotational Value of Field Pea as a Legume Cover Crop.</td>
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<td>GNE18-170</td>
<td>Agricultural Best Management Practices to Mitigate Gaseous Carbon and Nitrogen Losses from a Zea Mays Silage System</td>
<td>$15,000</td>
<td>Dr.Carol Adair&lt;br&gt;University of Vermont&lt;br&gt;Kyle Dittmer&lt;br&gt;University of Vermont</td>
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| GNE17-157    | Full-diet farming: A case study of an alternative model for community-supported agriculture | $14,171 | Amy Trubek  
University of Vermont  
Caitlin Morgan  
University of Vermont |
| GNE17-163    | Linking adaptive management to climate change impacts on diversified vegetable and berry farms in northern New England | $13,385 | Dr.V. Ernesto Mendez  
University of Vermont  
Alissa White  
Department of Plant & Soil Science at the University of Vermont |
| GNE16-117    | Table to farm: Using shotgun metagenomics to quantify antibiotic resistance on farms feeding food scraps to laying hens | $14,909 | John Barlow  
University of Vermont  
Korin Eckstrom  
University of Vermont |
| GNE16-121    | Development of an effective and economical pheromone mating disruption system for swede midge | $14,265 | Dr.Yolanda Chen  
University of Vermont  
Rebecca Hallett  
University of Guelph  
Dr.Elisabeth Hodgdon  
Cornell Cooperative Extension |
| GNE16-124    | The effects of compost and vegetation on stormwater treatment and soil nutrient distribution within bioretention cells | $3,892 | Dr.Stephanie Hurley  
University of Vermont - Plant and Soil Science Department  
Dr.Joshua Faulkner  
University of Vermont Extension  
Dr.Eric Roy  
University of Vermont - Rubenstein School of Environment and Natural Resources  
Jason Kokkinos  
University of Vermont |
| GNE16-129    | Quantifying the nest density of an economically important native pollinator using population genetics | $14,758 | Dr.Taylor Ricketts  
University of Vermont  
Charlie Nicholson  
University of Vermont |
| GNE15-094    | Bee Viruses: The Evaluation of Flowering Plants in Horizontal Transmission and Conditions Promoting Viral Replication | $14,640 | Alison Brody  
University of Vermont  
Dr.Samantha Alger  
University of Vermont |
| GNE15-097    | Improvements in feed efficiency, milk yield, and components by delineating the rumen microbiome | $15,000 | Dr.Andre Brito  
University of New Hampshire  
Dr.Jana Kraft  
University of Vermont  
Laura Cersosimo  
University of Vermont |
| GNE15-098    | Exploring the use of bokashi as a soil fertility amendment in Northeast vegetable production systems | $13,062 | Dr.Josef Görres  
University Of Vermont  
Dana Christel  
University of Vermont |
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<td>GNE15-109</td>
<td>The Root of the Problem: Enhancing food security among Latino/a farm workers in Vermont</td>
<td>$14,537</td>
<td>Dr.Teresa Mares Jessie Mazar University of Vermont</td>
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<td>GNE14-087</td>
<td>Staphylococcus mastitis, biofilms, and antibiotic resistance: Barriers to milk quality and food safety on artisanal and farmstead cheese producing farms in Vermont</td>
<td>$14,999</td>
<td>John Barlow University of Vermont Dr.Robert Mugabi University of Vermont</td>
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<td>GNE14-091</td>
<td>Evaluating the Use of Forage Radish to Enhance Winter Rye Cover Crop Performance</td>
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<td>GNE12-033</td>
<td>Evaluation of flowering cover crops as an IPM tool in Northeastern hop production</td>
<td>$14,154</td>
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<td>GNE12-045</td>
<td>Mitigating and preventing flood-related soil quality degradation using cover crop blends</td>
<td>$14,836</td>
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<td>GNE11-022</td>
<td>Evaluating the use of forage radishes as a pasture improvement tool</td>
<td>$10,343</td>
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**ON FARM RESEARCH/PARTNERSHIP GRANTS**

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<td>Adopting a New Culling Strategy to Reduce Johne's Disease and Improve Economic Sustainability on Dairy Farms</td>
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<td>Hemp Fiber – Finding Value in the Supply Chain</td>
<td>$29,465</td>
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<td>ONE22-426</td>
<td>Farm-scale Urine Fertilizer Implementation: Refining Application Methods, Gathering Buyer and Consumer Perspectives, and Producing Farmer Guide</td>
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<td>Evaluating Essential Oil-based Formulations for the Alternative Control of Winter Cattle Lice</td>
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<td>ONE22-408</td>
<td>Dual Use Winter Vegetable Peas: Examining the Viability of Double Cropping in Zone 4</td>
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<td>Organic No-Till Forage Crop Innovations</td>
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<td>Mycorrhizal Banks to Enhance Vegetable Yield and Reduce Water Quality Impairment by Mitigating Excessive Soil Phosphorus</td>
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<td>ONE21-390</td>
<td>From Pasture to Cheese: Effect of Farm Practices on Raw Milk and Cheese Microbial Communities</td>
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<td>Integrating Solar Corridors into Vermont Corn Silage Production Systems</td>
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<td>High Tunnel Gantry System with Transport Cart and Automated Row Cover System to Assist Small Farm Production, Scalability, and Profitability</td>
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<td>Expanding Farm Partnerships to Trial Human-Urine-Derived Fertilizer on New Crops</td>
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<td>Assessment of a Collaborative Milk Shed in Lamoille County, Vermont</td>
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<td>Expanding Local Markets through Evaluating Sensory Characteristics and Agronomic Performance of Flint Corn Varieties</td>
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<td>A Partnership for Improving Northeast Honey Bee Breeding Stock by Implementing Novel Selection Criteria</td>
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<td>Field Assessment of a Novel Behavioral Disruptor for Spotted Wing Drosophila Management in Northeastern Berry Crops</td>
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<td>Evaluating &quot;Flex Ear&quot; Corn Varieties for Agronomic and Conservation Performance</td>
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<td>Exploring Low-Phosphorous Wool Pellets as Fertilizer and Soil Conditioner for Vegetables</td>
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<td>Building a Resilient Farmer Network in the Face of Climate Disruption</td>
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<td>Anaerobic Soil Disinfestation to Control Soilborne Pathogen Rhizoctonia solani in Vermont Field Conditions</td>
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<td>Mycoremediation of Phosphorus in Agricultural Runoff using Mycorrhizal-Plant Associations</td>
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<td>Increasing Yield and Carbon Sequestration of Hemp Production with Understory Companion Crops</td>
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<td>The Ag Engineering Podcast: Tools, Tips and Techniques for Improving Sustainability on Your Farm</td>
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<td>Practical Strategies for Reducing Ammonia Volatilization from Urine-Derived Fertilizers</td>
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<td>ONE17-305</td>
<td>A farmer collaboration initiative</td>
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<td>Application of regionally adapted nematodes for root maggot management</td>
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<td>Vermont organic dairy custom grazing network</td>
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<td>Increasing the viability of heirloom dry bean production in the Northeast: Part II</td>
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<td>A regional, farmer-driven approach to labor issues</td>
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<td>Can grazing selectivity increase fatty acid and nutritive content of annual forages grown for dairy?</td>
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<td>Tools for grass farmers to monitor grazing behavior and forage use in real time</td>
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<td>Aeration Tillage Effects on Hay Yield and Soil Health in Clay Soils</td>
<td>$14,986</td>
<td>Jeffrey Carter</td>
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<td>Rico Balzano</td>
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<td>ONE14-210</td>
<td>Evaluating value chain facilitators</td>
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<td>ONE14-218</td>
<td>Urine as fertilizer: Maximizing hay yield and enriching low-N composites</td>
<td>$14,955</td>
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<td>Kim Nace</td>
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<td>ONE14-220</td>
<td>Biological control of conifer root aphids in Christmas trees</td>
<td>$14,995</td>
<td>Dr.Bruce L. Parker</td>
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<td>ONE13-175</td>
<td>Enhancing honey production with clover: Innovative methods to use white and alsike clover in Vermont hay fields</td>
<td>$14,848</td>
<td>Dr.Sid Bosworth</td>
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<td>ONE13-176</td>
<td>Food Storage Curriculum for Farmers and Processors</td>
<td>$14,952</td>
<td>Christopher Callahan University of Vermont Extension</td>
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<td>ONE13-177</td>
<td>Cover Crop Diversity in No-Till Systems</td>
<td>$14,964</td>
<td>Jeffrey Carter UVM Extension Kirsten Workman UVM Extension</td>
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<td>ONE13-180</td>
<td>Developing agronomic practices for flax production in the Northeast</td>
<td>$14,889</td>
<td>Dr.Heather Darby University of Vermont Extension</td>
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<td>ONE13-182</td>
<td>Vermicompost as a fast-acting nitrogen amendment to mitigate nitrogen deficiencies in organic vegetable production</td>
<td>$14,588</td>
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<td>ONE13-188</td>
<td>Sustainable fertilizer from reclaimed urine: A farm-scale demonstration for hay production</td>
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<td>The future of growing rice in Vermont: Managing for climate change</td>
<td>$14,923</td>
<td>Dr.Laura Bermingham University of Vermont</td>
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<td>Raw waste milk as a pasture amendment</td>
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<td>Mitigating fertility effects of flooding with variable rate amendment</td>
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<td>Evaluating flowering plant selection for pollinator habitat enhancement: Open-pollinated natives vs. native cultivars</td>
<td>$14,850</td>
<td>Dr.Leonard Perry University of Vermont</td>
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<td>ONE11-137</td>
<td>Underseeding Clover in Organic Wheat to Reduce Mycotoxins and Improve Grain Quality</td>
<td>$14,728</td>
<td>Dr.Sid Bosworth University of Vermont</td>
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<td>ONE11-139</td>
<td>Evaluation of organic strategies to control a new invasive pest, swede midge, Contarinia nasturtii (Diptera: Cecidomyiidae)</td>
<td>$15,000</td>
<td>Dr.Yolanda Chen University of Vermont</td>
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<td>ONE11-140</td>
<td>The Effects of Topdressing Organic Nitrogen on Hard Red Winter Wheat Yield and Quality: Part II</td>
<td>$14,186</td>
<td>Dr.Heather Darby University of Vermont Extension</td>
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<td>ONE11-146</td>
<td>Guide to Financing the Community Supported Farm</td>
<td>$14,982</td>
<td>Mark Cannella</td>
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<td>ONE11-148</td>
<td>Evaluation of the effects of aerators on alfalfa stands</td>
<td>$14,992</td>
<td>Hilary Solomon</td>
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<td>ONE10-114</td>
<td>The effects of topdressing organic nitrogen on wheat protein</td>
<td>$11,540</td>
<td>Dr.Heather Darby</td>
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<td>ONE10-123</td>
<td>Compost for Management of Plant Pathogens and Weed Seeds</td>
<td>$15,000</td>
<td>Dr.Deborah Neher, PhD</td>
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<td>ONE10-126</td>
<td>Evaluating the on-farm environmental and economic impacts of the use of aerators with liquid and semi-solid manure under various management conditions</td>
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<td>ONE08-081</td>
<td>Assessing the value of oilseed meals for soil fertility and weed suppression</td>
<td>$9,213</td>
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<td>ONE08-084</td>
<td>Developing On-Farm Research Expertise Among Farmers in Vermont</td>
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<td>Dr.Wendy Sue Harper</td>
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<td>ONE08-089</td>
<td>Eggplants as habitat plants in Poinsettias</td>
<td>$9,993</td>
<td>Dr.Margaret Skinner</td>
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<td>ONE07-070</td>
<td>Fenceless Grazing</td>
<td>$10,000</td>
<td>Christopher Dutton</td>
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<td>ONE06-052</td>
<td>Assessing on-farm pasture availability and forage quality for dairy feed planning</td>
<td>$9,914</td>
<td>Dr.Sid Bosworth</td>
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<td>ONE06-061</td>
<td>A study to determine if anthelmintic-resistant internal parasites exist in Vermont sheep flocks</td>
<td>$10,000</td>
<td>Chet Parsons</td>
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<td>ONE05-036</td>
<td>Farm-fabricated on-farm composting equipment project: Aerating equipment</td>
<td>$9,980</td>
<td>Tom Gilbert</td>
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<td>ONE05-039</td>
<td>Women's Agricultural Network Farm Visits</td>
<td>$4,313</td>
<td>Beth Holtzman</td>
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<td>ONE04-018</td>
<td>Integration of Forage Fenugreek into the Northeast Cropping System</td>
<td>$9,634</td>
<td>Dr.Heather Darby, University of Vermont Extension</td>
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<td>ONE04-021</td>
<td>Development of Partnerships and Support for an Emerging Alternative Crop: Grapes in Northern New England</td>
<td>$9,604</td>
<td>Lorraine Berkett, University of Vermont</td>
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<tr>
<td>ONE03-005</td>
<td>Farmer educators for a pilot grazing demonstration project in Vermont</td>
<td>$8,000</td>
<td>Gwyneth Harris, UVM Center for Sustainable Agriculture</td>
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**SUSTAINABLE COMMUNITY INNOVATION GRANTS**

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<tr>
<th>Project #</th>
<th>Project Title</th>
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<tr>
<td>CNE13-107</td>
<td>On-Line Farm to Workplace System</td>
<td>$14,985</td>
<td>Tara Kelly, Rutland Area Farm and Food Link</td>
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<td>CNE13-110</td>
<td>FarmRaisers: Raising funds, kids, and crops in the Upper Valley</td>
<td>$14,716</td>
<td>Beth Roy, Vital Communities</td>
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<td>CNE12-093</td>
<td>The Community Market Project</td>
<td>$14,369</td>
<td>Erin Buckwalter, Northeast Organic Farming Association of Vermont</td>
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<td>CNE11-084</td>
<td>Market Basket</td>
<td>$8,755</td>
<td>Angela Berkfield, Post Oil Solutions</td>
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<tr>
<td>CNE10-070</td>
<td>Facilitating Collaborative Farm-to-Restaurant Sales in Chittenden County, Vermont</td>
<td>$9,783</td>
<td>Travis Marcotte, Intervale Center</td>
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<td>CNE10-074</td>
<td>Greater Falls Food Hub</td>
<td>$15,000</td>
<td>Denise Mason, Southeastern Vermont Community Action (SEVCA)</td>
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<td>CNE09-065</td>
<td>Marketing the market: facilitating EBT usage among farmers' market customers</td>
<td>$9,792</td>
<td>Liz Kenton, UVM Extension, Sarah Kleinman, University of Vermont Extension</td>
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<td>CNE09-066</td>
<td>Incubation, expansion and learning: The microloan fund for New England farmers</td>
<td>$17,514</td>
<td>Julia Grigg, The Carrot Project</td>
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<td>CNE08-049</td>
<td>Vermont food basket project</td>
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<td>CNE07-026</td>
<td>Bridging the gap: Connecting youth, farms and communities</td>
<td>$9,994</td>
<td>Sara Porth, University of Vermont Extension</td>
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CNE06-006  Rutland Area Farm and Food Link - community farm and agricultural resource center  $9,900  India Burnett Farmer

CNE06-007  South Hero Land Trust Farm Initiative  $6,697  Chris Gordon  South Hero Land Trust

Total funding from the USDA SARE program to Vermont  $12,284,628

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).