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 $310 million to more than 7,433 initiatives.

SARE is grassroots with far-reaching impact

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

SARE communicates results

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

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

New Hampshire

Project Highlight: Training and Technical Assistance for Refugee Farmers

Refugee farmers face a number of barriers to professional success, including lack of access to capital; poor or no credit upon arrival to the U.S.; lack of knowledge on how to buy or lease land; a need to develop a brand and expand markets; and affordability of insurance, annual inputs, organic certification and equipment/infrastructure.

The Organization for Refugee & Immigrant Success (ORIS) used its SARE grant to build off the successes of participants in its New American Sustainable Agriculture Project (NASAP), which assists refugees in New Hampshire in building sustainable farm enterprises that are consistent with their culture and lifestyle aspirations, and that strengthen regional sustainable food systems. Since 2011, 20 refugee farmers have developed farm businesses by accessing individual plots at a seven-acre "incubator farm" site in Dunbarton, N.H.

The NASAP farmers wanted to take over management of the farm site that they had committed their time and resources into, so ORIS coordinated advanced trainings to prepare them for independent management, including one-on-one support. The training pushed the refugees forward in transitioning from the incubator to independent businesses, and ORIS began looking for a new site for its NASAP incubator program. With ORIS’s help, nine farmers developed an independent cooperative, which is functioning as its own entity and establishing long-term land tenure, and thirteen farmers attended financial literacy training workshops.

For more information on this project, see sare.org/projects, and search for project number ONE14-200.

SARE in New Hampshire

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

$3,755,358 in total funding

84 grant projects

(since 1988)

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

Total awards: 84 grants
- 42 Farmer/Rancher
- 10 Graduate Student
- 13 On Farm Research/Partnership
- 6 Professional Development Program
- 11 Research and Education
- 2 Research Only

Total funding: $3,755,358
- $284,300 Farmer/Rancher
- $144,675 Graduate Student
- $170,541 On Farm Research/Partnership
- $640,692 Professional Development Program
- $1,999,364 Research and Education
- $515,786 Research Only

Find a complete list of projects on page 3.

SARE's Impact

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

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

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

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

Contact Your SARE State Coordinator

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

Olivia Saunders
University of New Hampshire
(603) 447-5192
olivia.saunders@unh.edu

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

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

This report includes summaries of competitive grant programs only. Some competitive grant programs that are no longer offered may be included or excluded from the totals in this report depending on the grant program and SARE region.
New Hampshire has been awarded $3,838,841 grants to support 92 projects, including but not limited to, 11 research and/or education projects, 6 professional development projects and 42 producer-led projects. New Hampshire has also received additional SARE support through multi-state projects.

### RESEARCH AND EDUCATION GRANTS

<table>
<thead>
<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNE20-403</td>
<td>Advancing Strawberry Production in the Northeast</td>
<td>$213,997</td>
<td>Dr. Rebecca Sideman UNH Cooperative Extension</td>
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<tr>
<td>LNE16-346</td>
<td>Unraveling challenges and opportunities of kelp meal supplementation in Northeast organic dairies</td>
<td>$199,820</td>
<td>Dr. Andre Brito University of New Hampshire</td>
</tr>
<tr>
<td>LNE15-343</td>
<td>Improving nutrient and pest management in high tunnel tomato production</td>
<td>$249,539</td>
<td>Dr. Rebecca Sideman UNH Cooperative Extension</td>
</tr>
<tr>
<td>LNE13-323</td>
<td>Forage-based approaches for improving profitability and ecosystem services of dairy farms in New Hampshire and Pennsylvania</td>
<td>$199,927</td>
<td>Dr. Andre Brito University of New Hampshire</td>
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<tr>
<td>LNE11-313</td>
<td>UNH Organic Dairy Farm Agroecosystem Study, Phase II; A closed system, energy independent organic dairy farm for Northeastern U.S.</td>
<td>$392,658</td>
<td>Dr. John Aber University of New Hampshire</td>
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<tr>
<td>LNE08-277</td>
<td>UNH Organic Dairy Farm agroecosystem study</td>
<td>$379,087</td>
<td>Dr. John Aber University of New Hampshire</td>
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<tr>
<td>LNE04-199</td>
<td>Food Stamp Redemptions at New Hampshire Farmers’ Markets</td>
<td>$30,968</td>
<td>Helen Costello UNH Cooperative Extension</td>
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<tr>
<td>LNE03-183</td>
<td>Towards a community-based school food system</td>
<td>$76,388</td>
<td>Tom Kelly UNH Office of Sustainability</td>
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<tr>
<td>LNE98-108</td>
<td>Nutrition &amp; Management of Dairy Sheep &amp; Goats on Pasture</td>
<td>$151,190</td>
<td>Bruce Clement</td>
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<tr>
<td>LNE98-109</td>
<td>Resource Kit for Preserving Rural Character</td>
<td>$6,000</td>
<td>Jean Conklin University of New Hampshire Cooperative Extension</td>
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<tr>
<td>LNE97-081</td>
<td>Potential of Earthworms as Biocontrol Agents of Scab and Leafminers in New England Apple Orchards</td>
<td>$99,790</td>
<td>William E. MacHardy University of New Hampshire</td>
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### RESEARCH ONLY GRANTS

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<thead>
<tr>
<th>Project #</th>
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<tbody>
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<td>William E. MacHardy University of New Hampshire</td>
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**PROFESSIONAL DEVELOPMENT PROGRAM GRANTS**

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<th>Project #</th>
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<tbody>
<tr>
<td>ENE20-166</td>
<td>Building Farm Financial Management Skills through Effective Distance Education</td>
<td>$163,612</td>
<td>Seth Wilner</td>
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<td>UNH Cooperative Extension</td>
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<tr>
<td>ENE19-155</td>
<td>Improving Professional Capacity to Deliver Farm Succession Planning Assistance in New England</td>
<td>$101,021</td>
<td>Shemariah Blum-Evitts</td>
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<td>Land For Good</td>
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<tr>
<td>ENE07-105</td>
<td>Building capacity in whole-farm systems and planning using the holistic management framework</td>
<td>$171,923</td>
<td>Seth Wilner</td>
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<tr>
<td>ENE03-080</td>
<td>Farmer research education program</td>
<td>$141,471</td>
<td>Richard Kersbergen</td>
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<td>University of Maine Cooperative Extension</td>
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<td></td>
<td>Seth Wilner</td>
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<td>UNH Cooperative Extension</td>
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<tr>
<td>ENE00-056</td>
<td>Agricultural Easements for Sustainable Agriculture</td>
<td>$37,175</td>
<td>Nada Haddad</td>
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<td>UNH Cooperative Extension</td>
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<td>ENE99-051</td>
<td>Market Planning for Value-Added Agricultural Products</td>
<td>$25,490</td>
<td>John Porter</td>
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<td>New Hampshire Cooperative Extension</td>
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**FARMER/RANCHER GRANTS**

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<th>Project #</th>
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<tbody>
<tr>
<td>FNE20-948</td>
<td>Reducing New England high tunnel heating costs and fossil fuel usage utilizing an earth air heat exchanger</td>
<td>$15,000</td>
<td>Dan Birnstihl</td>
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<td>Hip Peas Farm</td>
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<tr>
<td>FNE20-966</td>
<td>Increasing winter farm income: Exploring the feasibility of growing microgreens in a modified cold storage room</td>
<td>$6,376</td>
<td>Jennifer Wilhelm</td>
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<td>Fat Peach Farm</td>
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<tr>
<td>FNE18-914</td>
<td>Assessing No-Till Permanent Raised Beds for Mixed Vegetable Production on Marginal Soils</td>
<td>$14,965</td>
<td>Jennifer Wilhelm</td>
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<td>Fat Peach Farm</td>
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<tr>
<td>FNE14-809</td>
<td>Perennial globe artichokes wintered in low tunnels</td>
<td>$4,680</td>
<td>Janel Martin</td>
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<td>4J's Earthworks</td>
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<tr>
<td>FNE14-814</td>
<td>Livestock tracking system</td>
<td>$14,600</td>
<td>Carole Soule</td>
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<td>Miles Smith Farm</td>
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<tr>
<td>FNE13-777</td>
<td>Using compost heat for perennial production</td>
<td>$13,940</td>
<td>Pat Gianunzio</td>
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<td>Petal Pushers Farm</td>
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<tr>
<td>FNE12-740</td>
<td>Warm-season grass selection to balance forage production and wildlife management needs</td>
<td>$8,179</td>
<td>Charles Cox</td>
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<td>Tuckaway Farm</td>
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<tr>
<td>FNE12-741</td>
<td>Mechanical approaches to perennial weed suppression in organically established no-till cover crops</td>
<td>$8,879</td>
<td>Dorn Cox</td>
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<td>Westwick Farming LLC</td>
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</table>
FNE12-744  Time to grow crops vs. day of year planted, part II  $7,497  Steve Fulton  Farmer

FNE12-762  Silvopasture in the Northeast: Environmental and economic implications of land-use conversion within a northern hardwoods forest  $14,570  Dr. Joseph Orefice  Hidden Blossom Farm

FNE12-767  Winter/spring grazing of Brassicas and winter rye  $14,858  Carole Soule  Miles Smith Farm

FNE11-710  organic no-till establishment of hairy vetch as a cover crop into hay sod and sensitivity to carbon amendments  $11,525  Dorn Cox  Westwick Farming LLC

FNE11-718  Planning tool for succession planting of crops, particularly lettuce, broccoli, and corn  $9,002  Steve Fulton  Farmer

FNE10-692  Seedless Table Grape Variety Evaluation Grown on VSP Training System  $9,388  John Lastowka  Lastowka’s Maple Gate Farm

FNE08-628  Interseeding legume and grain crops with high-oil-content sunflowers  $9,100  Dorn Cox  Westwick Farming LLC

FNE08-633  Evaluating small grains with silage corn in a double-cropping system on dairy farms  $4,214  Bob Foulkes

FNE07-602  Interseeding legume and grain crops with high oil content sunflower  $8,633  Dorn Cox  Westwick Farming LLC

FNE07-606  Finishing lambs on grain and brassicas in the Northeast: an economic study of three systems  $7,501  Bill Fosher  Edgefield Farm

FNE07-616  Potassium nutrition for greenhouse tomatoes in the Northeast  $7,238  Jock McKenzie

FNE07-621  Organic sweet potato fertilizer trial  $2,806  James Warren  Fertile Fields Farm

FNE06-590  Identifying bindweed control methods for the Northeast while maintaining crop production  $3,885  Mary Ellen Sheehan  South Village Garden

FNE04-514  A Book on Why and How to Run Cooperative CSA  $9,210  Scott Franzblau

FNE03-459  Reclaiming Pastureland for Diversified Fruit/Maple Production  $6,382  Stephen Davis  Cold Pond Community Farm

FNE03-467  Innovative and Creative Ways of Safely Selling Dairy Products at Farmer’s Markets  $8,703  Courtney Haase  Nunsuch Dairy & Cheese

FNE02-405  Wild Cranberry and Wetlands Project  $3,300  Martha Carlson  Sandwich Community School, Inc

FNE02-444  Concord Cooperative CSA  $7,200  Dave Trumble
Evaluating Italian Ryegrass for Summer Pasture in New England  
$940  
Ellen Clement

Orchard Hill Farm Orchard Spray Program  
$1,185  
Anton Elbers  
Orchard Hill Farm

Charcoal Making  
$4,550  
Ken Gagnon

Intercropping Winter Rye With Corn Silage  
$4,378  
Fred Sullivan  
Brokenridge Farm

Food Safety & Quality Control Program for Farmstead Sheep Cheese  
$10,093  
Bruce Clement

Resource recovery and utilization of trout manure.  
$2,385  
Greg Bossart

Community partnering, education, and marketing.  
$5,620  
Tom Earle  
RR 1 Box 27

Farm Based Sustainable Agriculture Education Programs  
$2,850  
David Batchelder  
Mill Valley Farm

Alternative Use of Seasonal Forage Crops: Triticale, Field Peas, and Brassicas  
$750  
Christian D. Gowdy  
Brookfield Farm

Training Site for the Micro Process Design 25 Gallon Vat Pasteurizer  
$5,500  
Courtney Haase  
Nunsuch Dairy & Cheese

Forest Grown Medicinal Plants to Increase Woodlot Income  
$1,545  
Charles Baylies

Plant Population Effect on Yields of Sweet Corn  
$632  
Charles Hardey

Towards Aquaculture  
$3,936  
Klee Dugan

Solar Vehicle for Farm Use  
$3,355  
Buck & Caroline Robinson

Organic Tomato Disease Control  
$2,450  
David Trumble  
David Trumbel-Green Truck Farm

Evaluation of Alternatives to Synthetic Chemicals and Lime for Nutrient Supply, Weed Suppression, and pH Control on Raspberry Plants  
$2,500  
Mark Towle  
The Raspberry Farm  
John Shaw  
The Raspberry Farm

GRADUATE STUDENT GRANTS

<table>
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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
</tr>
</thead>
</table>
| GNE19-198  | Improving Biopesticide Efficacy of Apple Diseases through Co-application with Natural Products | $14,685      | Anissa Poleatewich  
University of New Hampshire  
Liza DeGenring  
University of New Hampshire |
GNE18-169 Expanding Northeast Strawberry Production in Controlled Environment Agriculture with Naturally-Derived Nutrient Source $14,758
Anissa Poleatewich University of New Hampshire
Anna DeVitto University of New Hampshire

GNE18-182 Harvesting Sap and Producing Syrup From Trees Other Than Maples, Birches, and Walnuts $14,848
Dr. Heidi Ashjornsen University of New Hampshire
David Moore University of New Hampshire

GNE17-153 Developing legume-grass mixtures to improve the environmental sustainability of northeastern organic dairies $14,916
Dr. Andre Brito University of New Hampshire
Mohammad Ghelich Khan University of New Hampshire

GNE15-101 Research and educational approaches to guide dairy farmer decisions about kelp meal supplementation in the Northeast $14,666
Dr. Andre Brito University of New Hampshire
Simone Frotas University of New Hampshire
Caren Ghedini University of New Hampshire

GNE14-077 Potassium management and soil testing in high tunnel tomato production $11,526
Dr. Rebecca Sideman UNH Cooperative Extension
Connor Eaton University of New Hampshire
Dr. Rebecca Sideman UNH Cooperative Extension

GNE13-051 Responses of soil faunal food webs to pesticide seed treatments $14,963
Dr. Richard Smith University of New Hampshire
Lesley Atwood University of New Hampshire

GNE12-031 Integrating grazing research with surveys to assess and advance the current knowledge about kelp meal supplementation for organic dairy farms in the northeast $14,963
Dr. Andre Brito University of New Hampshire
Nicole Antaya University of New Hampshire

GNE12-049 Feasibility of integrating annual feed grains into established organic pasture $14,924
Dr. Richard Smith University of New Hampshire
Jennifer Wilhelm University of New Hampshire

GNE10-011 Molasses as an Alternative Energy Feed Source for Organic Dairies $14,426
Dr. Andre Brito University of New Hampshire
Dr. Kathy Soder USDA-ARS
Shara Ross University of New Hampshire
Nicole Antaya University of New Hampshire

ON FARM RESEARCH/PARTNERSHIP GRANTS

<table>
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<tr>
<th>Project #</th>
<th>Project Title</th>
<th>SARE Support</th>
<th>Project Leaders</th>
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<tbody>
<tr>
<td>ONE20-370</td>
<td>Improving High Tunnel Management with Soil Steamers through an Equipment Sharing Model</td>
<td>$29,997</td>
<td>Amanda Littleton Cheshire County Conservation District</td>
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<tr>
<td>ONE19-349</td>
<td>NH Community Food Ambassadors for Mobile Farmers Markets</td>
<td>$30,000</td>
<td>Allison Cunningham Organization for Refugee and Immigrant Success</td>
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<tr>
<td>ONE16-267</td>
<td>Soil health management outreach using mechanical aeration</td>
<td>$11,200</td>
<td>Stacy Luke Merrimack County Conservation District</td>
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<tr>
<td>ONE16-284c</td>
<td>Increasing cover crop adoption through farmer peer-to-peer support</td>
<td>$10,083</td>
<td>Carl Majewski UNH Cooperative Extension</td>
</tr>
</tbody>
</table>
From incubators to independence: Providing training and technical assistance to refugee farmers in New Hampshire

Conserved farmland access

Weed control in low-input or organically grown wild lowbush blueberries

NOFA-NH Technical Consultancy Program

Evaluating small grains for late season and early spring forage

Winter Sprouting Broccoli as an Alternative Tunnel Crop in New England

Tracking Labor for Time and Enterprise Budgeting

Evaluation of Brown-Midrib Sudangrass-Sorghum as a Forage on NH Dairy Farms

Marketing Plans for Farms Catering to Niche Markets

SUSTAINABLE COMMUNITY INNOVATION GRANTS

<table>
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<tbody>
<tr>
<td>CNE10-082</td>
<td>Farm and Farmland Acquisition: A Curriculum for Farmers and Communities</td>
<td>$15,000</td>
<td>Kathryn Ruhf, Land For Good</td>
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<tr>
<td>CNE10-067</td>
<td>Cheshire Labor and Infrastructure Needs Assessment</td>
<td>$13,234</td>
<td>Amanda Littleton, Cheshire County Conservation District</td>
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<td>CNE10-072</td>
<td>Capital Area Farm and Community Connection Infrastructure Inventory Project.</td>
<td>$12,085</td>
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<td>CNE08-044</td>
<td>Cultivating Community Connections: From seed to table</td>
<td>$10,000</td>
<td>Sonja Riddle-Ford, Stonewall Farm</td>
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<td>CNE08-052</td>
<td>NOFA-NH Local and Organic Food Project</td>
<td>$9,945</td>
<td>Barbara Sullivan, NOFA-NH</td>
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<tr>
<td>CNE07-031</td>
<td>Farmer and community feasibility study</td>
<td>$3,288</td>
<td>Amanda Littleton, Cheshire County Conservation District</td>
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<tr>
<td>CNE06-002</td>
<td>Farm transfer planning: Tools for revitalizing rural life</td>
<td>$9,931</td>
<td>Bob Bernstein, Land For Good</td>
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<td>CNE06-008</td>
<td>Agricultural commissions: A new resource for sustaining New Hampshire farms and communities</td>
<td>$10,000</td>
<td>Nada Haddad, UNH Cooperative Extension</td>
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</tbody>
</table>
Total funding from the USDA SARE program to New Hampshire
$3,838,841

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).